ETSI EN 301 908-1
ETSI EN 301 908-2
ETSI EN 301 908-13

TEST REPORT

For

Reolink Go PT Plus

MODEL: Reolink Go PT Plus, Reolink Go PT EXT

REPORT NUMBER: 4790400563.1-3

ISSUE DATE: May 18, 2022

Prepared for

REOLINK INNOVATION LIMITED
FLAT/RM 705 7/F FA YUEN COMMECIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

Tel: +86 769 22038881
Fax: +86 769 33244054
Website: www.ul.com

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	05/18/2022	Initial Issue	

Note: This is a copy report base on 4790194520.3-6 which is issued by UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch on February 28, 2022. The customer wants to add a new serial model but everything about the equipment under test remain unchanged, so we only update the information in this report without any test. For more information, please refer to the original report.

Test Summary			
Test Item	**Test Requirement**	**Test Method**	**Result**
Radiated Spurious Emissions	EN 301 908-13 V11.1.2 Clause 4.2.10 EN 301 908-2 V11.1.2 Clause 4.2.8	EN 301 908-13 V11.1.2 Clause 5.3.9 EN 301 908-2 V11.1.2 Clause 5.3.7	PASS
	EN 301 908-1 V11.1.2 Clause 4.2.2 EN 301 908-1 V11.1.1 Clause 4.2.2	EN 301 908-1 V11.1.2 Clause 5.3.1 EN 301 908-1 V11.1.1 Clause 5.3.1	PASS

Remark:
1. N/A means not applicable.
2. This test report is only published to and used by the applicant, and it is not for evidence purpose in China.
3. The measurement result for the sample received is <Pass> according to < ETSI EN 301 908-1 V13.1.1 (2019-11) > < ETSI EN 301 908-2 V13.1.1 (2020-06) > < ETSI EN 301 908-13 V13.1.1 (2019-11) > when <Accuracy Method> decision rule is applied.

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	REOLINK INNOVATION LIMITED
Address:	FLAT/RM 705 7/F FA YUEN COMMECIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG

Manufacturer Information

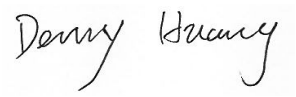
Company Name:	REOLINK INNOVATION LIMITED
Address:	FLAT/RM 705 7/F FA YUEN COMMECIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG

EUT Information

EUT Name:	Reolink Go PT Plus
Model:	Reolink Go PT Plus, Reolink Go PT EXT
Model Difference:	All the same except for the model name.
Sample Received Date:	December 30, 2021
Sample Status:	Normal
Date of Tested:	December 30, 2021 ~ February 18, 2022

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
ETSI EN 301 908-1 V13.1.1 (2019-11)	**PASS**
ETSI EN 301 908-2 V13.1.1 (2020-06)	**PASS**
ETSI EN 301 908-13 V13.1.1 (2019-11)	**PASS**

Prepared By:



Denny Huang
Project Engineer

Checked By:

Shawn Wen
Laboratory Leader

Approved By:

Stephen Guo

Laboratory Manager

2. FACILITIES AND ACCREDITATION

2.1 TEST FACTORY

Company Name:	SHENZHEN STS TEST SERVICES CO.,LTD.
Address:	A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China
Telephone:	+86-755 3688 6288
Fax:	+86-755 3688 6277
Registration No.:	FCC test Firm Registration Number: 625569
	IC test Firm Registration Number: 12108A
	A2LA Certificate No.: 4338.01

2.2 MEASUREMENT UNCERTAINTY

The reported uncertainty of measurement y ± U, where expended uncertainty U is based on a standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95 %

No.	Item	Uncertainly
1	RF output power, conducted	±0.87dB
2	Unwanted Emissions, conducted	±2.895dB
3	All emissions, radiated below 1GHz	±2.54dB
4	All emissions, radiated 1GHz-18GHz	±3.22dB
5	All emissions, radiated>18G	±3.81dB

3. GENERAL INFORMATION

3.1 GENERAL DESCRIPTION OF THE EUT

Product Name		Reolink Go PT Plus
Model		Reolink Go PT Plus, Reolink Go PT EXT
Model Difference		All the same except for the model name.
WCDMA	Frequency Bands	WCDMA2100:1920-1980 MHz(TX), 2110-2170 MHz(RX) WCDMA900:880-915 MHz(TX), 925-960 MHz(RX)
	Modulation Mode	WCDMA: QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK
	Power Class	Class 3
LTE	Frequency Bands	FDD LTE Band 1: 1920-1980 MHz (TX), 2110-2170 MHz (RX) FDD LTE Band 3: 1710-1785 MHz (TX), 1805-1880 MHz (RX) FDD LTE Band 7: 2500-2570 MHz (TX), 2620-2690 MHz (RX) FDD LTE Band 8: 880-915 MHz (TX), 925-960 MHz (RX) FDD LTE Band 20: 832-862 MHz (TX), 791-821 MHz (RX)
	Modulation Mode	QPSK/16QAM
	Power Class	Class 3
SIM Card		Only support single SIM Card.
Rating		USB DC 5 V or DC 3.7 V Battery
Antenna Type		External antenna Internal antenna
Antenna gain		External antenna: 2 dBi Internal antenna: 2 dBi

Note: For more information, please refer to the original test reports.

3.2 REFERENCE DOCUMENTS AND TEST STANDARDS

WCDMA

Document	Description	Version
ETSI EN 301908-1	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements	V13.1.1 (2019-11)
ETSI EN 301908-2	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 2: CDMA Direct Spread (UTRA FDD) User Equipment (UE)	V13.1.1 (2020-06)
ETSI TS 134 121-1	Universal Mobile Telecommunications System (UMTS); User Equipment (UE) conformance specification; Radio transmission and reception (FDD); Part 1: Conformance specification (3GPP TS 34.121-1 version 15.3.0 Release 15)	V15.3.0 (2019-07)

LTE

Document	Description	Version
ETSI TS 136 521-1	LTE; Evolved Universal Terrestrial Radio Access (E-UTRA); User Equipment (UE) conformance specification; Radio transmission and reception; Part 1: Conformance testing (3GPP TS 36.521-1 version 15.5.0 Release 15)	V15.5.0 (2019-07)
ETSI EN 301908-1	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 1: Introduction and common requirements	V13.1.1 (2019-11)
ETSI EN 301908-13	IMT cellular networks; Harmonised Standard for access to radio spectrum; Part 13: Evolved Universal Terrestrial Radio Access (E-UTRA) User Equipment (UE)	V13.1.1 (2019-11)

3.3 ABBREVIATIONS USED FOR THE TEST RESULT LIST

Pass	EUT passed this test standard limit
Fail	EUT failed this test standard limit
Inc.	EUT did not pass and did not fail this test case, therefore the verdict “Inconclusive”
N.A.	Test case not applicable for the EUT
A	Test fully available and fully validated, testing at an accredited test laboratory required
B	Testing at an accredited test laboratory with exceptions (related to PTCRB)
D	Manufacturer’s declaration without evidence
E	Tests validated, results are provided to CTIA; negative results will not cause loss of certification
N	Tests not applicable to a particular GSM frequency band
P	New test not yet validated

4. TECHNICAL TEST

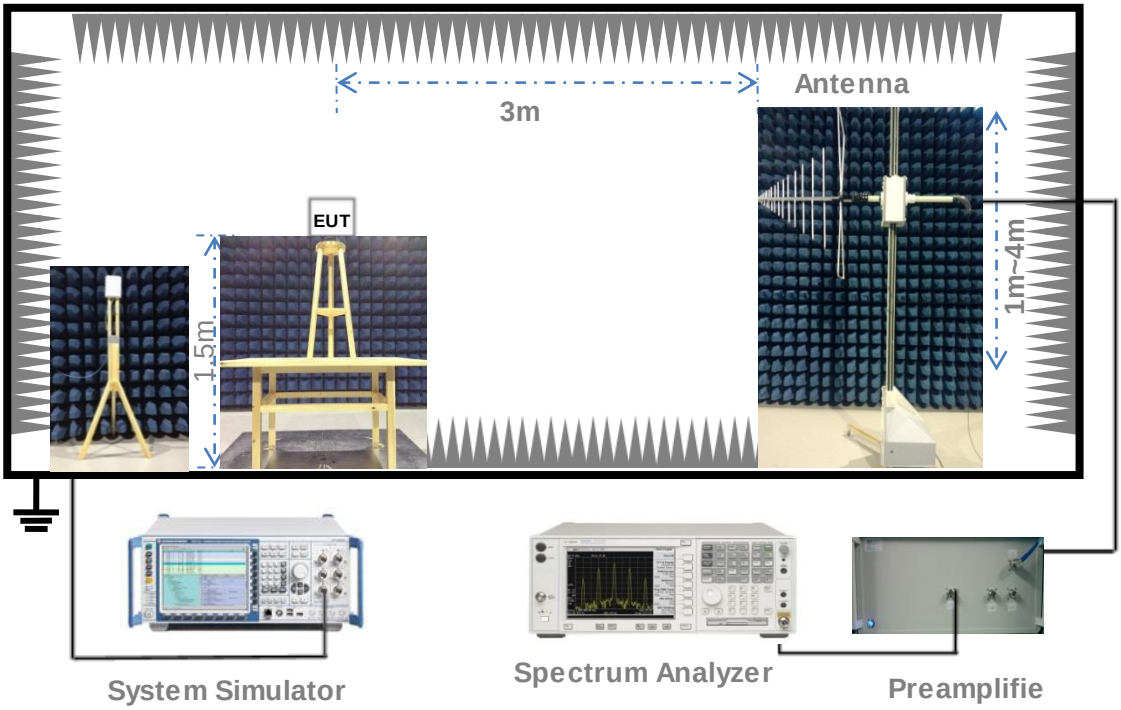
4.1 SUMMARY OF TEST RESULTS

No deviations from the requirements were ascertained in the course of the test performed.	☒
The deviations from the requirements as shown in clause 3 were ascertained in the course of the test performed.	☐

4.2 TEST ENVIRONMENT

Temperature:	15 to 35 °C
Relative humidity content:	Up to 75 %
Details of power supply:	3.7 V DC

4.3 MEASUREMENT AND TEST SETUP



4.4 TEST EQUIPMENT UTILISED

Kind of Equipment	Manufacturer	Type No.	Serial No.	Last calibration	Calibrated until
Bilog Antenna	TESEQ	CBL6111D	34678	2020.10.12	2022.10.11
Horn Antenna	SCHWARZBECK	BBHA 9120D	02014	2021.10.11	2023.10.10
Pre-Amplifier (0.1M-3GHz)	EM	EM330	060665	2021.10.08	2022.10.07
Pre-Amplifier (1G-18GHz)	SKET	LNPA-01018G-45	SK2018080901	2021.09.30	2022.09.29
Signal Analyzer	R&S	FSV 40-N	101823	2021.09.30	2022.09.29
Universal Radio communication tester	R&S	CMU200	111058	2021.09.29	2022.09.28
Wireless Communications Test Set	R&S	CMW 500	131428	2021.03.04	2022.03.03
Temperature & Humidity	SW-108	SuWei	N/A	2021.03.04	2022.03.03
Turn table	EM	SC100_1	60531	N/A	N/A
Antenna mast	EM	SC100	N/A	N/A	N/A
AC Power Source	APC	KDF-11010G	F214050035	N.C.R	N.C.R
Test SW	FARAD	EZ-EMC/STSLAB-03A1 RE			

5. TESTS UNDER NORMAL AND EXTREME TEST CONDITIONS

ETSI TS 134 121-1	ETSI EN 301908-1/-2	Test Description	BAND 1 Verdict	BAND 8 Verdict
--	301908-1 4.2.2	Transmitter spurious emissions- Radiated	P	P

ETSI TS 136521-1	ETSI EN 301908-1/-13	Test Description	Verdict				
			B1	B3	B7	B8	B20
--	301908-1 4.2.2	Transmitter spurious emissions- Radiated	P	P	P	P	P

6. RADIATED SPURIOUS EMISSIONS

LIMIT

The frequency boundary and reference bandwidths for the detailed transitions of the limits between the requirements for out-of-band emissions and spurious emissions are based on ITU-R Recommendations SM.329-10 [3] and SM.1539-1 [4].

The requirements shown in table 4.2.2.2-1 are only applicable for frequencies in the spurious domain.

Table 4.2.2.2-1: Radiated spurious emissions requirements (UE)

Frequency	Minimum requirement (e.r.p.)/ reference bandwidth idle mode	Minimum requirement (e.r.p.)/ reference bandwidth traffic mode	Applicability
30 MHz ≤ f < 1 000 MHz	-57 dBm/100 kHz	-36 dBm/100 kHz	All
1 GHz ≤ f < 12,75 GHz	-47 dBm/1 MHz	-30 dBm/1 MHz	All
fc - 2,5 × 5 MHz < f < fc + 2,5 × 5 MHz		Not defined	UTRA FDD, UTRA TDD, 3,84 Mcps option, cdma2000, spreading rate 3
fc - 2,5 × $BW_{Channel}$ MHz < f < fc + 2,5 × $BW_{Channel}$ MHz		Not defined	E-UTRA FDD, E-UTRA TDD, Mobile WiMAX, UMB
fc - 2,5 × 10 MHz < f < fc1 + 2,5 × 10 MHz		Not defined	UTRA TDD, 7,68 Mcps option
fc - 4 MHz < f < fc + 4 MHz		Not defined	UTRA TDD, 1,28 Mcps option cdma2000, spreading rate 1
fc - 500 kHz < f < fc + 500 kHz		Not defined	UWC 136, 200 kHz option
fc - 250 kHz < f < fc + 250 kHz		Not defined	UWC 136, 30 kHz option
NOTE: fc is the UE transmit centre frequency.			

Spurious emissions are emissions which are caused by unwanted transmitter effects such as harmonics emission, parasitic emissions, intermodulation products and frequency conversion products, but exclude out-of-band emissions. The spurious emission limits are specified in terms of general requirements in line with ITU-R Recommendation SM.329-10 [i.5] and E-UTRA operating band requirement to address UE co-existence.

Limits:
The spurious emission limits in table 4.2.4.2-2 apply for the frequency ranges that are more than ΔfOOB (MHz) from the edge of the channel bandwidth shown in table 4.2.4.2-1.
The measured average power of spurious emission for general requirements shall not exceed the described values in table 4.2.4.2-2.

Table 4.2.4.2-1: Δf_{OOB} boundary between E-UTRA channel and spurious emission domain

Channel bandwidth	1,4 MHz	3,0 MHz	5 MHz	10 MHz	15 MHz	20 MHz
Δf_{OOB} (MHz)	2,8	6	10	15	20	25

Table 4.2.4.2-2: General spurious emissions test requirements

Frequency range	Maximum level	Measurement bandwidth
9 kHz ≤ f < 150 kHz	-36 dBm	1 kHz
150 kHz ≤ f < 30 MHz	-36 dBm	10 kHz
30 MHz ≤ f < 1 000 MHz	-36 dBm	100 kHz
1 GHz ≤ f < 12,75 GHz	-30 dBm	1 MHz

NOTE 1: In order that the measurement of spurious emissions falls within the frequency ranges that are more than ΔfOOB (MHz) from the edge of the channel bandwidth, the minimum offset of the measurement frequency from each edge of the channel should be ΔfOOB + MBW/2. MBW denotes the measurement bandwidth defined in table 4.2.4.2-2.

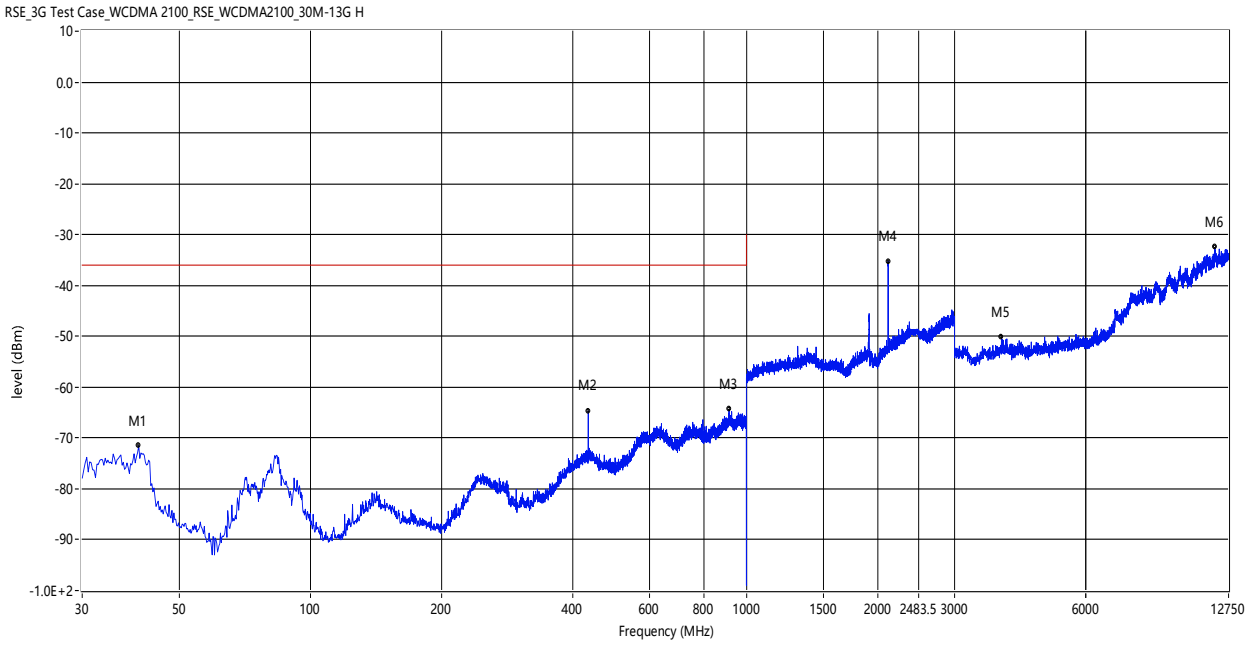
TEST PROCEDURE

1. The EUT was placed on the top of the turntable in fully anechoic chamber.
2. The test shall be made in the transmitting mode. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
3. For 30 ~ 1000 MHz spurious emissions measurement, the broad band bi-log receiving antenna was placed 3 meters far away from the turntable. For Above 1 GHz carrier frequency measurement, the receiving Horn antenna was placed 1.5 meters far away from the turntable.
4. The broadband receiving antenna was fixed on the same height with the EUT to find each suspected emissions of both horizontal and vertical polarization. Each recorded suspected value is indicated as Read Level (Raw).
5. Replace the EUT by standard antenna and feed the RF port by signal generator.
6. Adjust the frequency of the signal generator to the suspected emission and slightly rotate the turntable to locate the position with maximum reading.
7. Adjust the power level of the signal generator to reach the same reading with Read Level (Raw).
8. The level of the spurious emission is the power level of (7) plus the gain of the standard antenna in dBi and minus the loss of the cable used between the signal generator and the standard antenna.
9. The measurement shall be repeated at the lowest, middle and the highest channel of the stated frequency range.

TEST RESULT

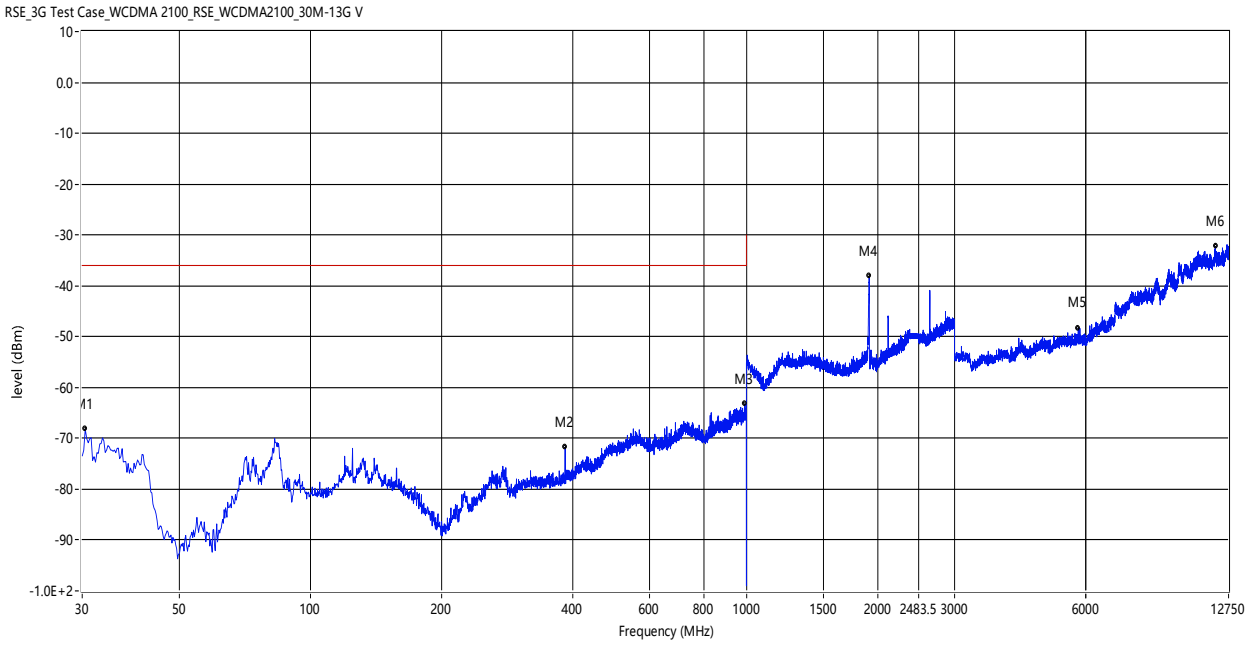
TX MODE

WCDMA Band 1-Mid CH Horizontal



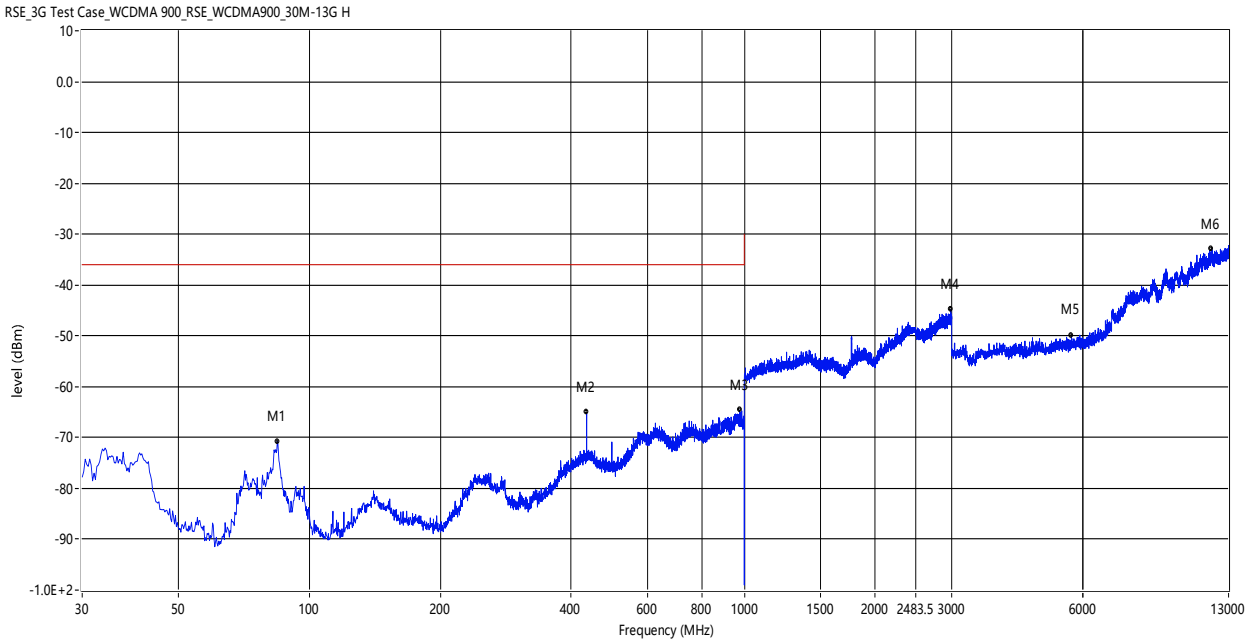
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.428	-71.48	-4.56	-36.0	-35.48	28.80	Horizontal	Vertical	Pass
434.005	-64.68	3.07	-36.0	-28.68	174.60	Horizontal	Vertical	Pass
912.458	-64.41	9.31	-36.0	-28.41	166.60	Horizontal	Vertical	Pass
2114.000	-35.24	15.99	-30.0	-5.24	202.20	Horizontal	Vertical	Pass
3845.812	-50.21	3.95	-30.0	-20.21	24.80	Horizontal	Vertical	Pass
11865.187	-32.51	22.42	-30.0	-2.51	338.30	Horizontal	Vertical	Pass

WCDMA Band 1-Mid CH Vertical



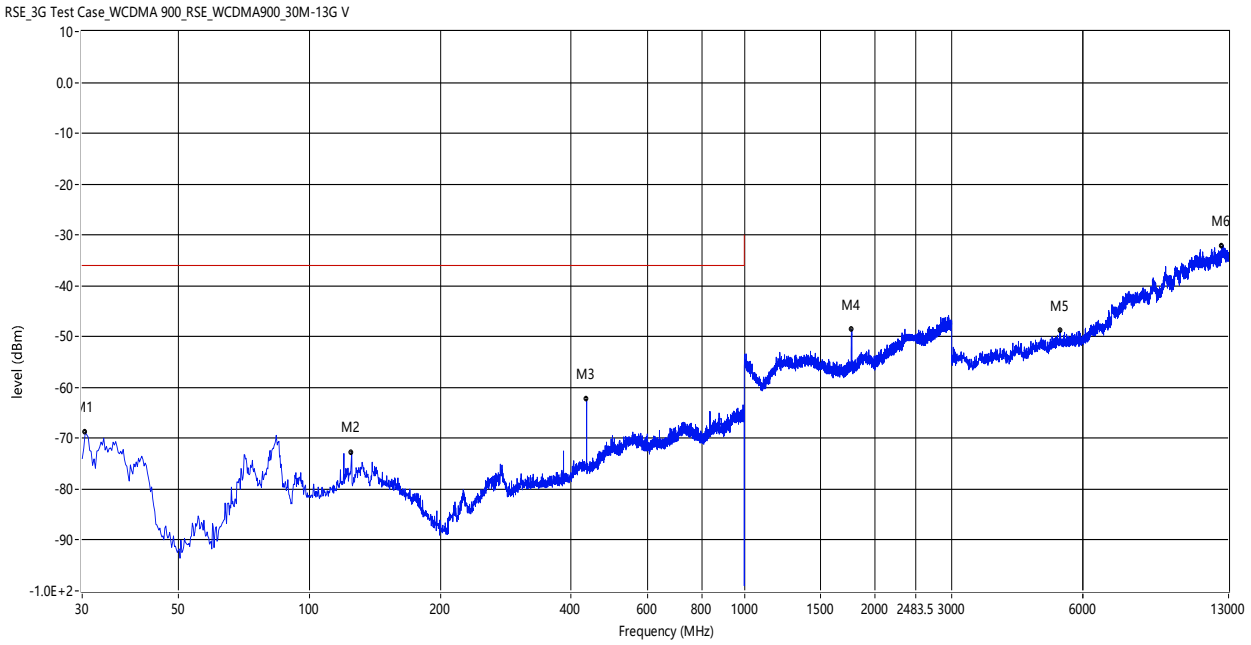
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
30.000	-73.51	-6.15	-36.0	-37.51	90.50	Vertical	Vertical	Pass
384.050	-71.68	-1.46	-36.0	-35.68	137.40	Vertical	Vertical	Pass
992.482	-63.23	10.56	-36.0	-27.23	46.70	Vertical	Vertical	Pass
1911.000	-38.13	14.11	-30.0	-8.13	342.30	Vertical	Vertical	Pass
5766.562	-48.28	7.26	-30.0	-18.28	42.70	Vertical	Vertical	Pass
11899.312	-32.26	22.78	-30.0	-2.26	129.50	Vertical	Vertical	Pass

WCDMA Band 8-Mid CH Horizontal



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
84.320	-70.73	-15.31	-36.0	-34.73	36.80	Horizontal	Vertical	Pass
434.005	-65.05	3.07	-36.0	-29.05	0.80	Horizontal	Vertical	Pass
975.023	-64.60	9.17	-36.0	-28.60	64.30	Horizontal	Vertical	Pass
2984.000	-44.85	21.17	-30.0	-14.85	285.10	Horizontal	Vertical	Pass
5655.000	-50.01	6.27	-30.0	-20.01	38.10	Horizontal	Vertical	Pass
11867.500	-32.98	22.45	-30.0	-2.98	58.20	Horizontal	Vertical	Pass

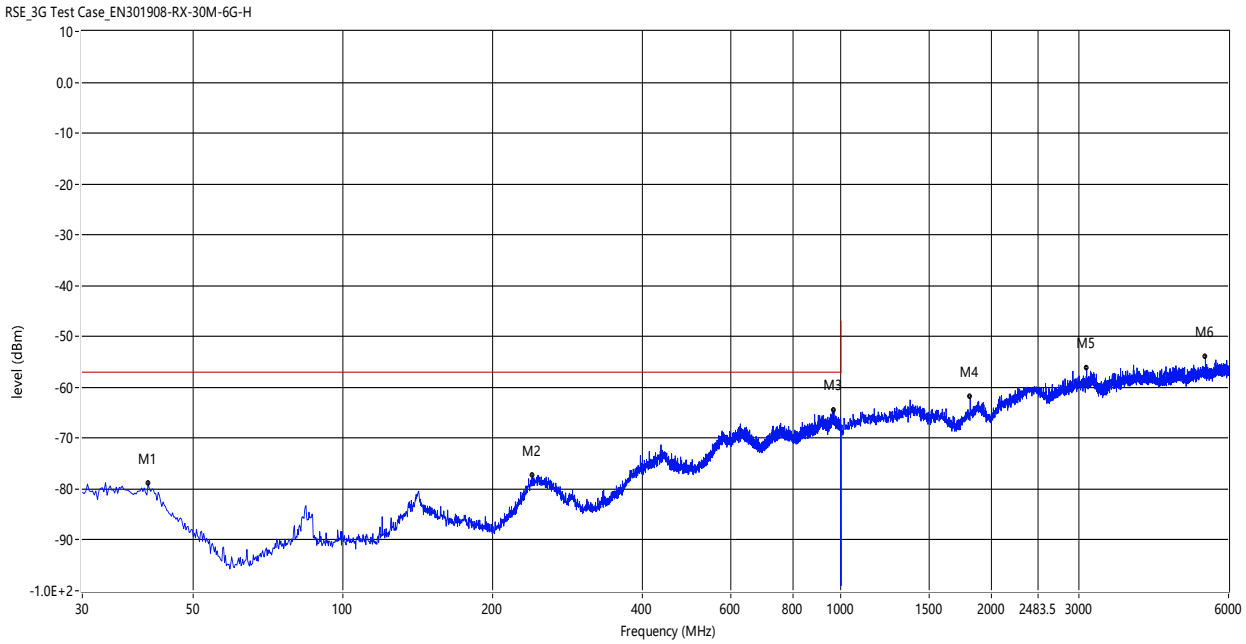
WCDMA Band 8-Mid CH Vertical



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
30.242	-71.95	-6.30	-36.0	-35.95	48.30	Vertical	Vertical	Pass
125.060	-72.81	-3.58	-36.0	-36.81	3.50	Vertical	Vertical	Pass
434.005	-62.37	1.07	-36.0	-26.37	56.60	Vertical	Vertical	Pass
1767.500	-48.62	12.23	-30.0	-18.62	94.90	Vertical	Vertical	Pass
5335.000	-48.84	6.80	-30.0	-18.84	296.90	Vertical	Vertical	Pass
12547.500	-32.29	22.90	-30.0	-2.29	356.30	Vertical	Vertical	Pass

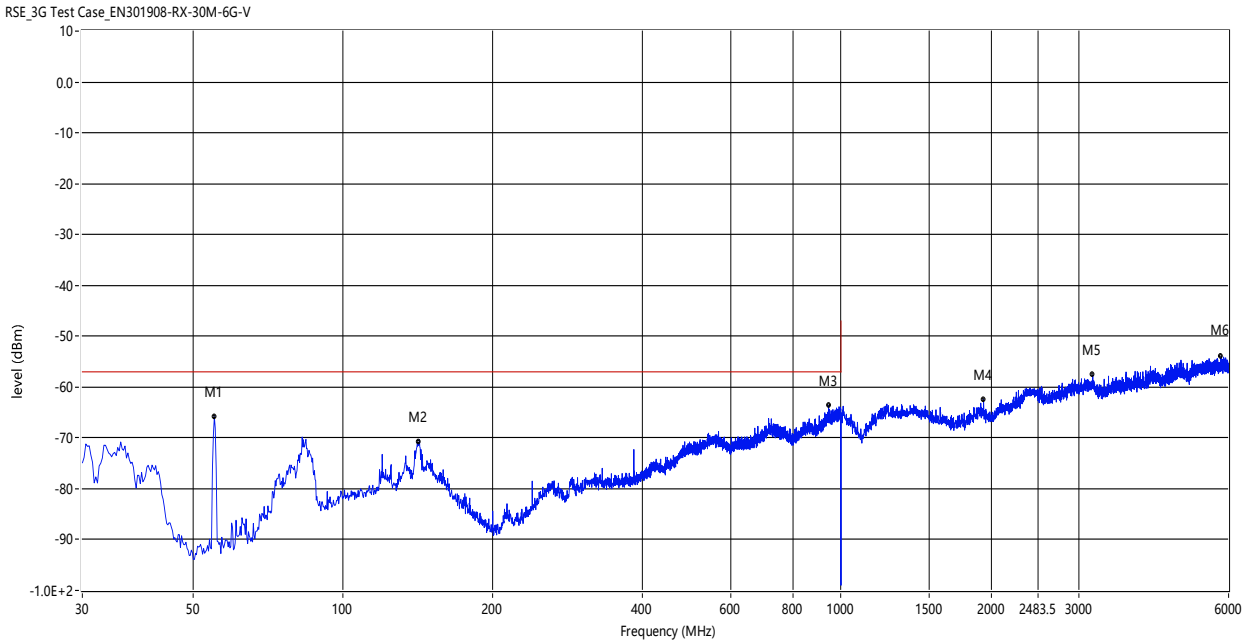
IDLE MODE

WCDMA Band 1-Mid CH Horizontal



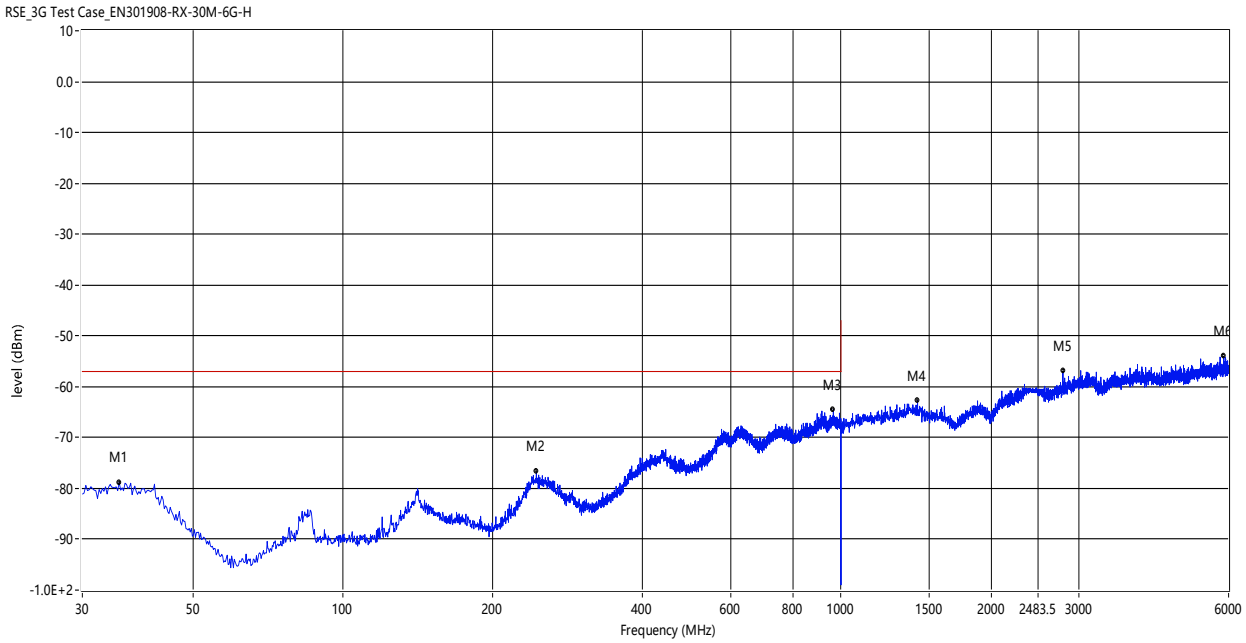
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.670	-78.97	-4.74	-57.0	-21.97	0.70	Horizontal	Vertical	Pass
240.248	-77.38	-1.96	-57.0	-20.38	356.30	Horizontal	Vertical	Pass
967.990	-64.53	9.39	-57.0	-7.53	144.80	Horizontal	Vertical	Pass
1817.500	-61.81	-3.67	-47.0	-14.81	129.20	Horizontal	Vertical	Pass
3113.750	-56.25	2.92	-47.0	-9.25	180.40	Horizontal	Vertical	Pass
5390.000	-54.07	6.25	-47.0	-7.07	217.20	Horizontal	Vertical	Pass

WCDMA Band 1-Mid CH Vertical



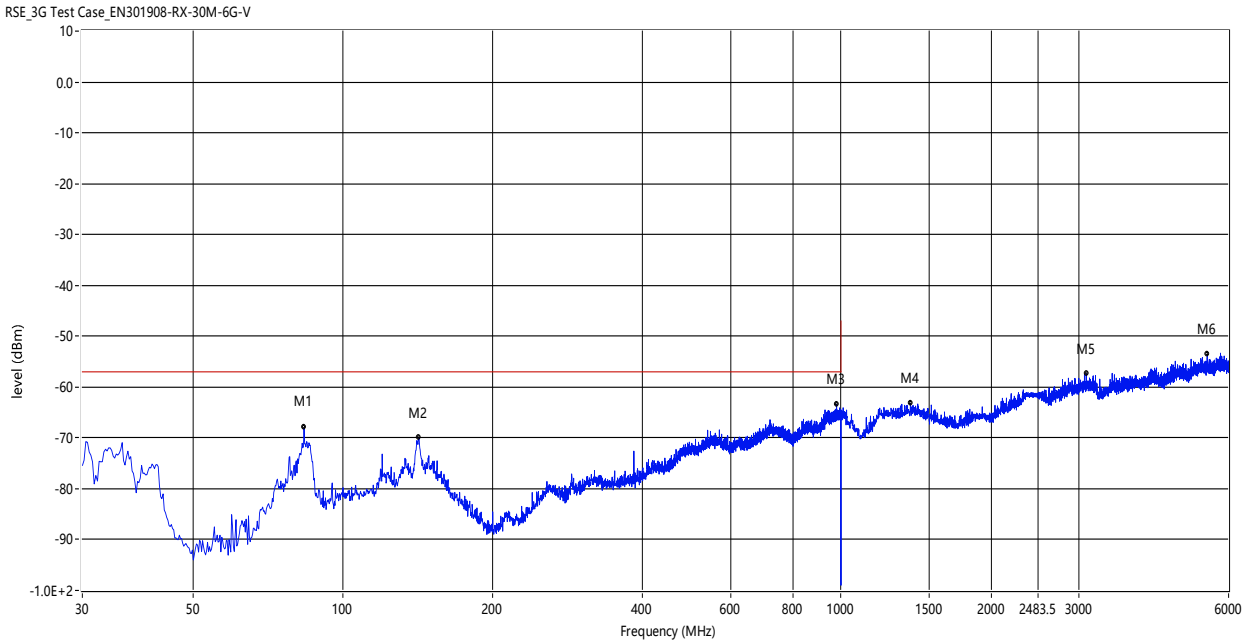
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
55.220	-65.83	-21.46	-57.0	-8.83	310.20	Vertical	Vertical	Pass
142.278	-70.93	-3.04	-57.0	-13.93	1.50	Vertical	Vertical	Pass
944.468	-63.64	10.14	-57.0	-6.64	89.40	Vertical	Vertical	Pass
1933.750	-63.58	-3.68	-47.0	-16.58	278.70	Vertical	Vertical	Pass
3202.500	-57.65	2.72	-47.0	-10.65	191.60	Vertical	Vertical	Pass
5797.500	-53.92	7.81	-47.0	-6.92	354.60	Vertical	Vertical	Pass

WCDMA Band 8-Mid CH Horizontal



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
35.578	-78.82	-4.31	-57.0	-21.82	235.40	Horizontal	Vertical	Pass
244.612	-76.74	-2.11	-57.0	-19.74	274.60	Horizontal	Vertical	Pass
965.322	-64.49	9.48	-57.0	-7.49	201.10	Horizontal	Vertical	Pass
1425.000	-62.71	-3.65	-47.0	-15.71	194.70	Horizontal	Vertical	Pass
2790.000	-56.94	1.96	-47.0	-9.94	39.00	Horizontal	Vertical	Pass
5860.000	-54.01	7.08	-47.0	-7.01	129.50	Horizontal	Vertical	Pass

WCDMA Band 8-Mid CH Vertical



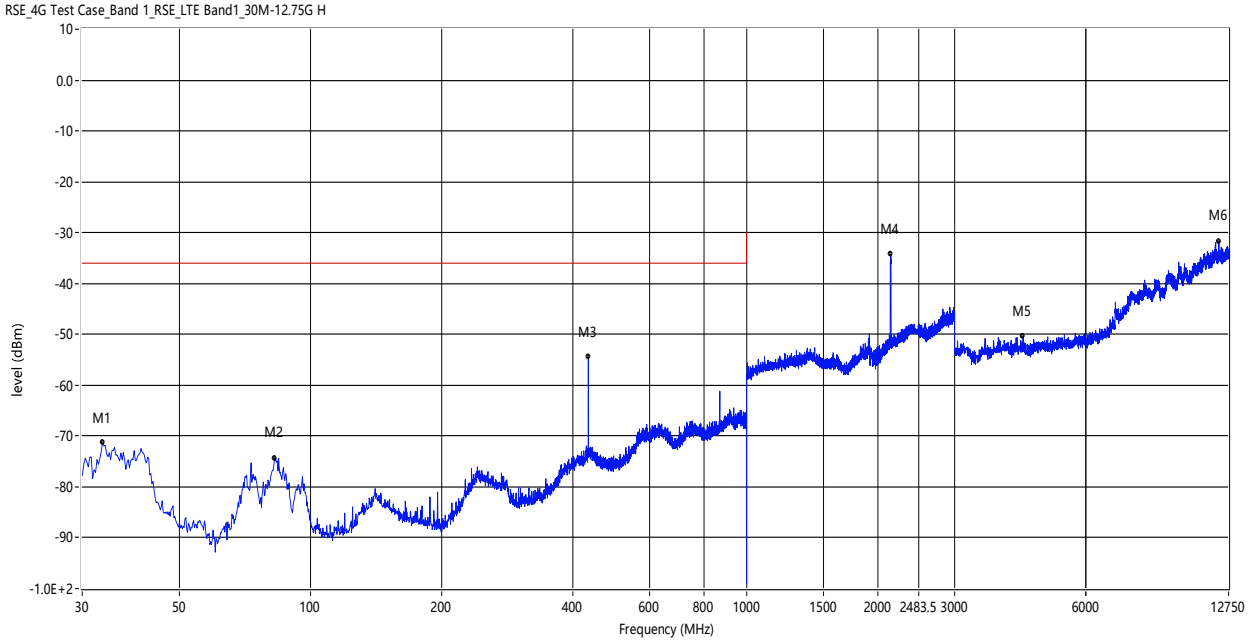
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
83.592	-68.00	-13.13	-57.0	-11.00	255.10	Vertical	Vertical	Pass
142.278	-70.01	-3.04	-57.0	-13.01	73.80	Vertical	Vertical	Pass
980.115	-63.42	10.41	-57.0	-6.42	272.10	Vertical	Vertical	Pass
1378.750	-63.26	-3.80	-47.0	-16.26	250.90	Vertical	Vertical	Pass
3106.250	-57.35	2.30	-47.0	-10.35	199.60	Vertical	Vertical	Pass
5436.250	-53.58	7.14	-47.0	-6.58	157.00	Vertical	Vertical	Pass

Clause 4.2.2(EN 301 908-1) Transmitter spurious emissions- Radiated

Note: Scan with all of the test model and conditions, only report the worst case.

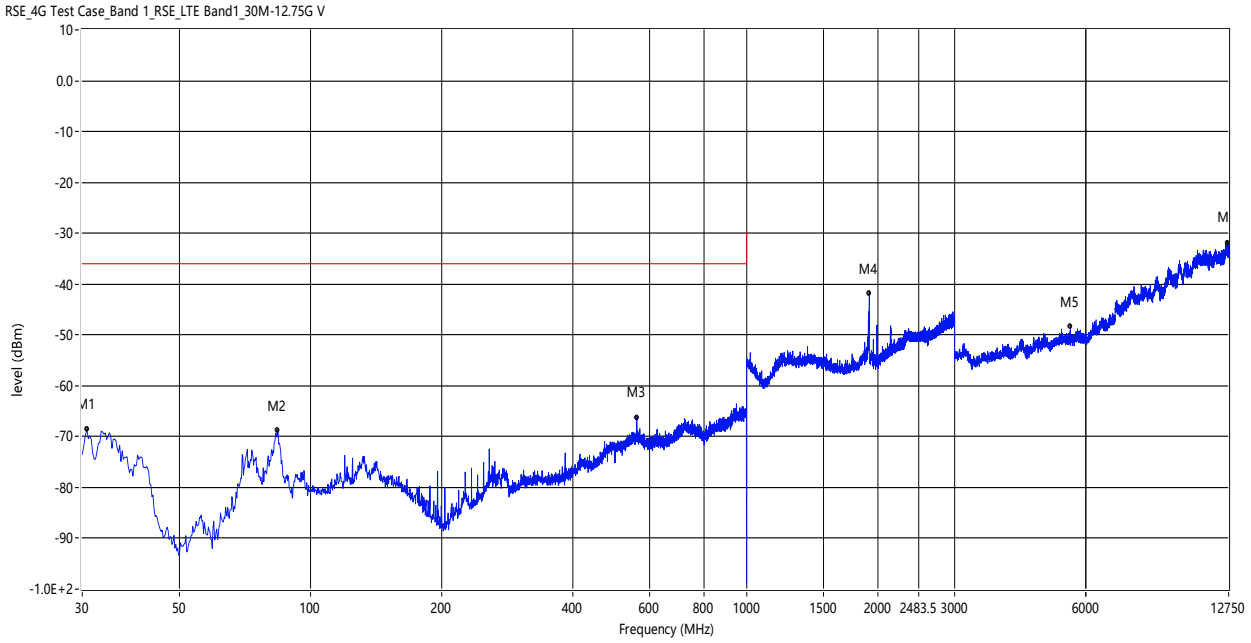
TX MODE

RSE-LTE-Band 1-Mid CH-H



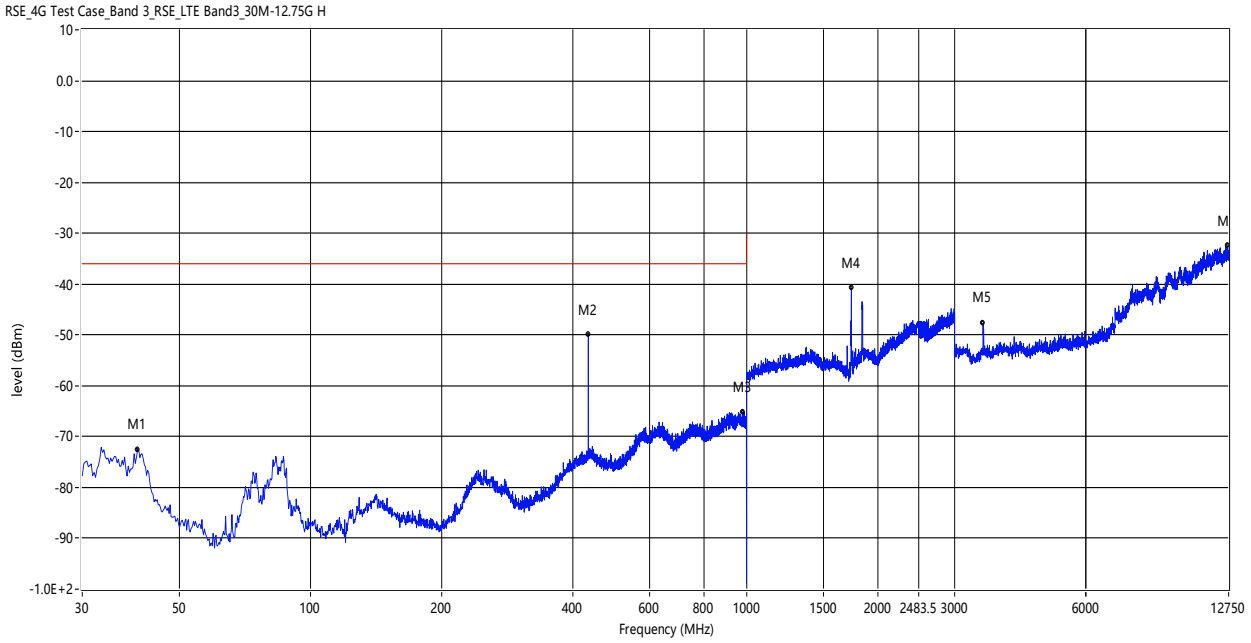
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
33.395	-71.35	-4.34	-36.0	-35.35	237.60	Horizontal	Vertical	Pass
82.865	-74.30	-15.46	-36.0	-38.30	306.50	Horizontal	Vertical	Pass
434.005	-54.51	3.07	-36.0	-18.51	144.00	Horizontal	Vertical	Pass
2143.000	-34.29	16.54	-30.0	-4.29	347.80	Horizontal	Vertical	Pass
4306.500	-50.43	4.35	-30.0	-20.43	52.60	Horizontal	Vertical	Pass
12111.375	-31.69	22.67	-30.0	-1.69	22.30	Horizontal	Vertical	Pass

RSE-LTE-Band 1-Mid CH-V



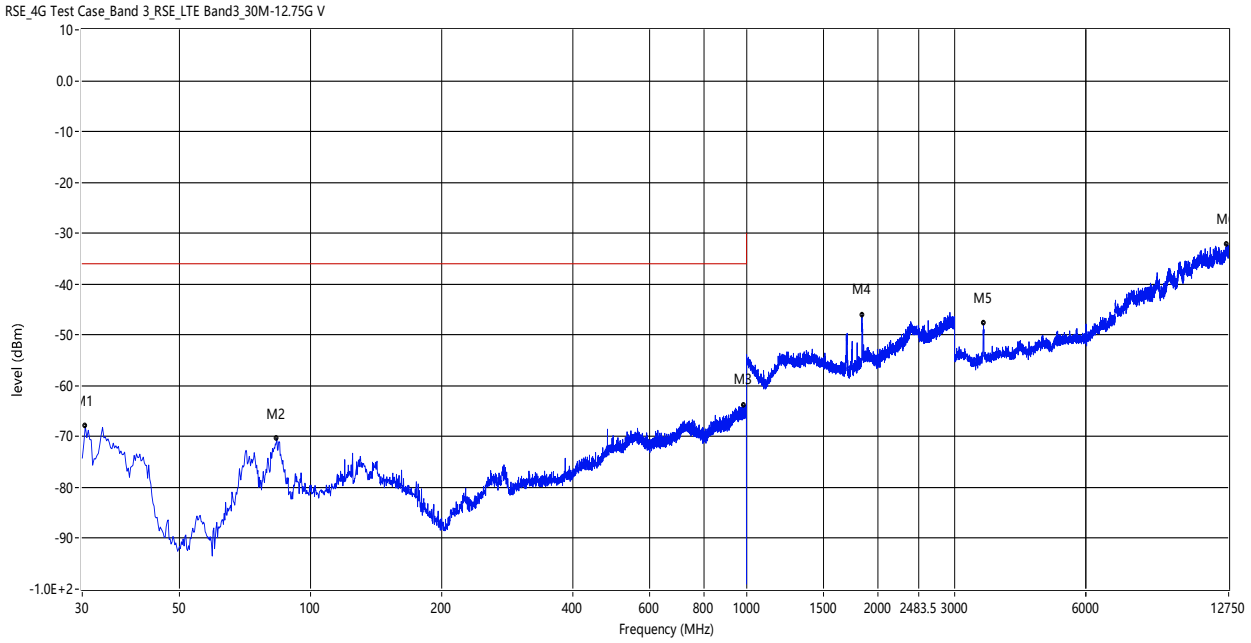
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
30.000	-73.52	-6.15	-36.0	-37.52	131.00	Vertical	Vertical	Pass
84.320	-68.78	-12.77	-36.0	-32.78	188.40	Vertical	Vertical	Pass
560.590	-66.27	6.40	-36.0	-30.27	128.20	Vertical	Vertical	Pass
1912.500	-41.85	14.08	-30.0	-11.85	34.70	Vertical	Vertical	Pass
5532.562	-48.42	6.85	-30.0	-18.42	347.50	Vertical	Vertical	Pass
12664.688	-31.87	23.38	-30.0	-1.87	319.10	Vertical	Vertical	Pass

RSE-LTE-Band 3-Mid CH-H



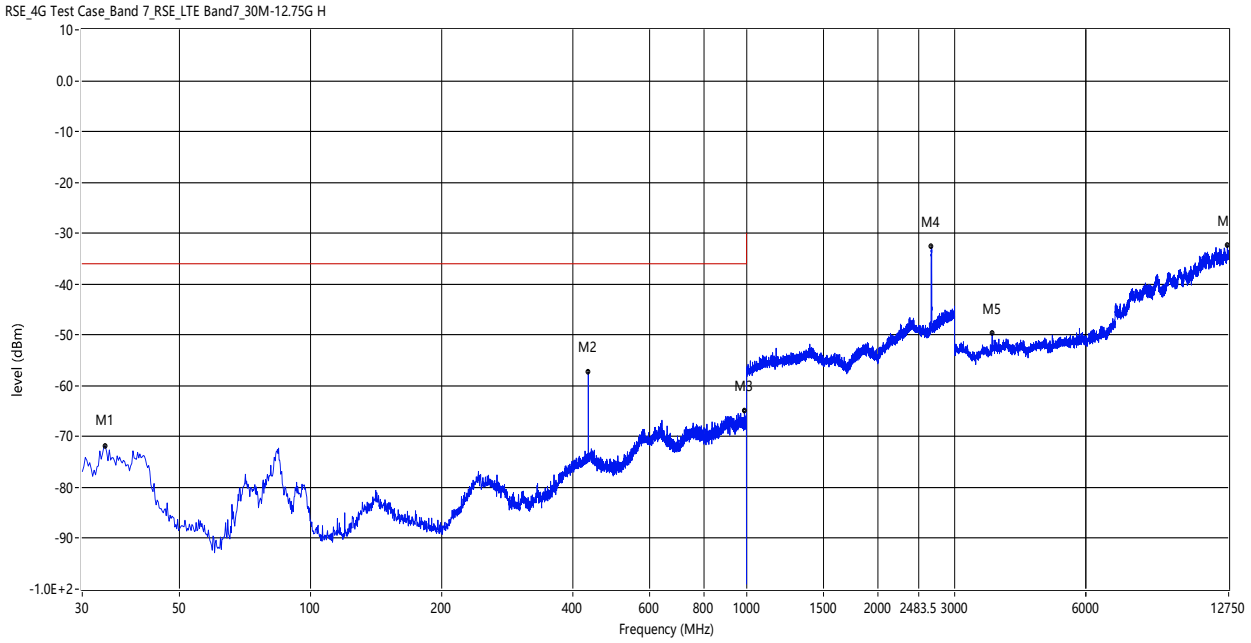
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.185	-72.52	-4.38	-36.0	-36.52	320.70	Horizontal	Vertical	Pass
434.005	-49.97	3.07	-36.0	-13.97	205.10	Horizontal	Vertical	Pass
981.570	-65.12	9.00	-36.0	-29.12	320.70	Horizontal	Vertical	Pass
1739.500	-40.79	12.41	-30.0	-10.79	1.20	Horizontal	Vertical	Pass
3487.500	-47.80	3.60	-30.0	-17.80	273.40	Horizontal	Vertical	Pass
12669.563	-32.53	22.85	-30.0	-2.53	56.90	Horizontal	Vertical	Pass

RSE-LTE-Band 3-Mid CH-V



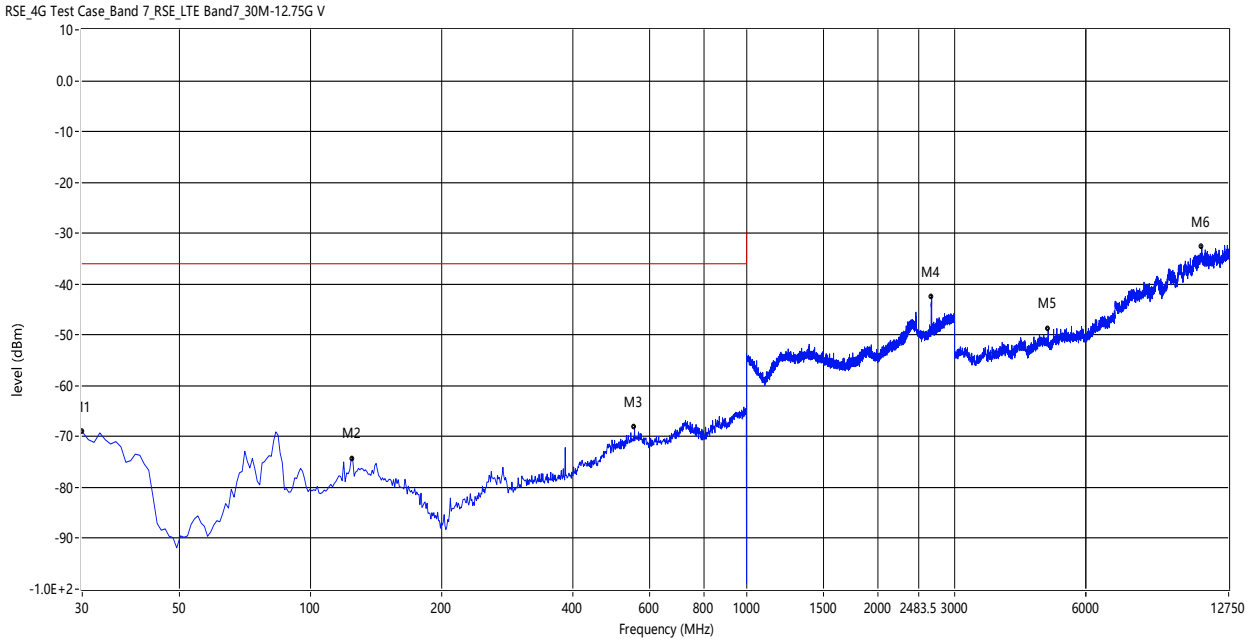
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
30.485	-67.93	-6.46	-36.0	-31.93	1.60	Vertical	Vertical	Pass
83.835	-70.35	-13.01	-36.0	-34.35	226.80	Vertical	Vertical	Pass
986.420	-63.84	10.49	-36.0	-27.84	0.00	Vertical	Vertical	Pass
1840.000	-46.05	13.36	-30.0	-16.05	3.30	Vertical	Vertical	Pass
3494.812	-47.78	2.76	-30.0	-17.78	182.70	Vertical	Vertical	Pass
12613.500	-32.16	23.36	-30.0	-2.16	194.10	Vertical	Vertical	Pass

RSE-LTE-Band 7-Mid CH-H



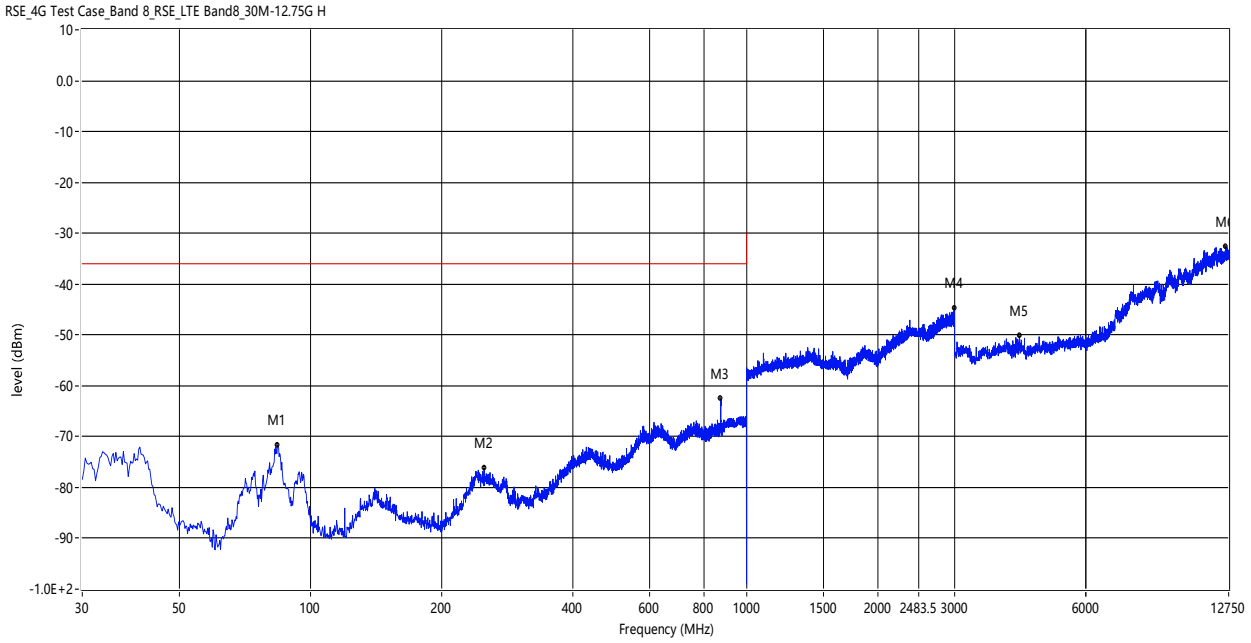
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
33.880	-71.85	-4.33	-36.0	-35.85	210.10	Horizontal	Vertical	Pass
434.005	-57.36	3.07	-36.0	-21.36	39.60	Horizontal	Vertical	Pass
989.330	-64.98	8.88	-36.0	-28.98	80.70	Horizontal	Vertical	Pass
2658.500	-32.70	18.87	-30.0	-2.70	69.00	Horizontal	Vertical	Pass
3658.125	-49.73	3.40	-30.0	-19.73	20.10	Horizontal	Vertical	Pass
12662.250	-32.45	22.81	-30.0	-2.45	173.90	Horizontal	Vertical	Pass

RSE-LTE-Band 7-Mid CH-V



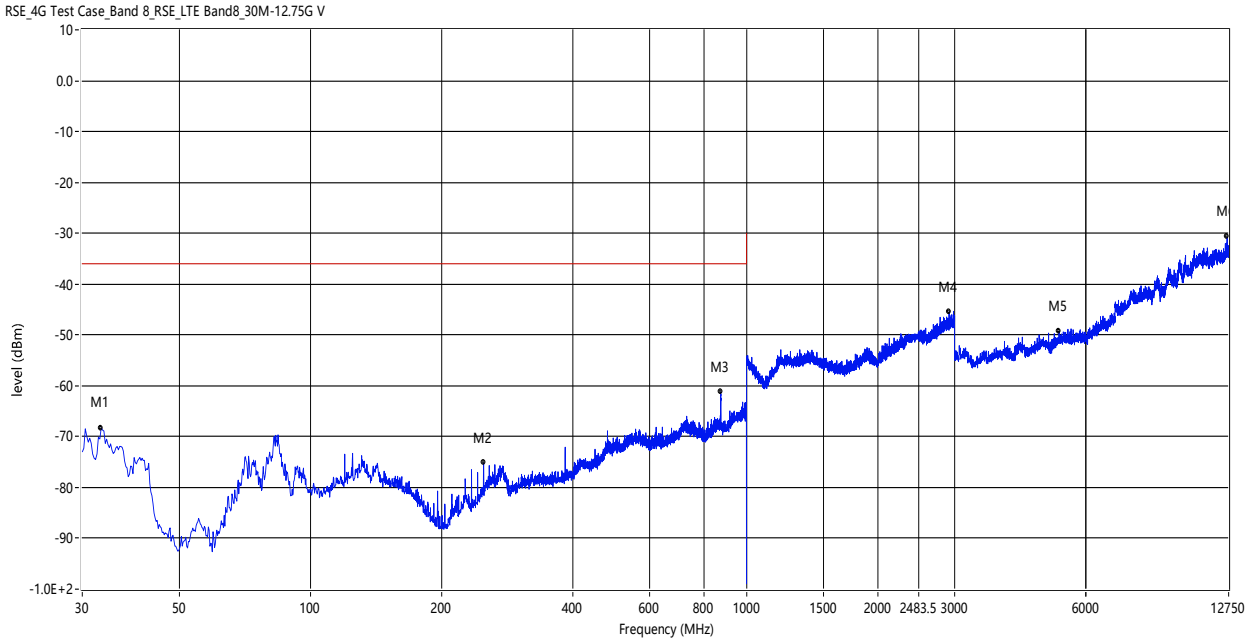
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
30.000	-69.01	-6.15	-36.0	-33.01	291.20	Vertical	Vertical	Pass
125.060	-74.31	-3.58	-36.0	-38.31	37.70	Vertical	Vertical	Pass
553.800	-68.05	6.28	-36.0	-32.05	196.10	Vertical	Vertical	Pass
2658.500	-42.45	18.41	-30.0	-12.45	0.20	Vertical	Vertical	Pass
4915.875	-48.80	5.60	-30.0	-18.80	67.70	Vertical	Vertical	Pass
11065.687	-32.68	21.83	-30.0	-2.68	231.40	Vertical	Vertical	Pass

RSE-LTE-Band 8-Mid CH-H



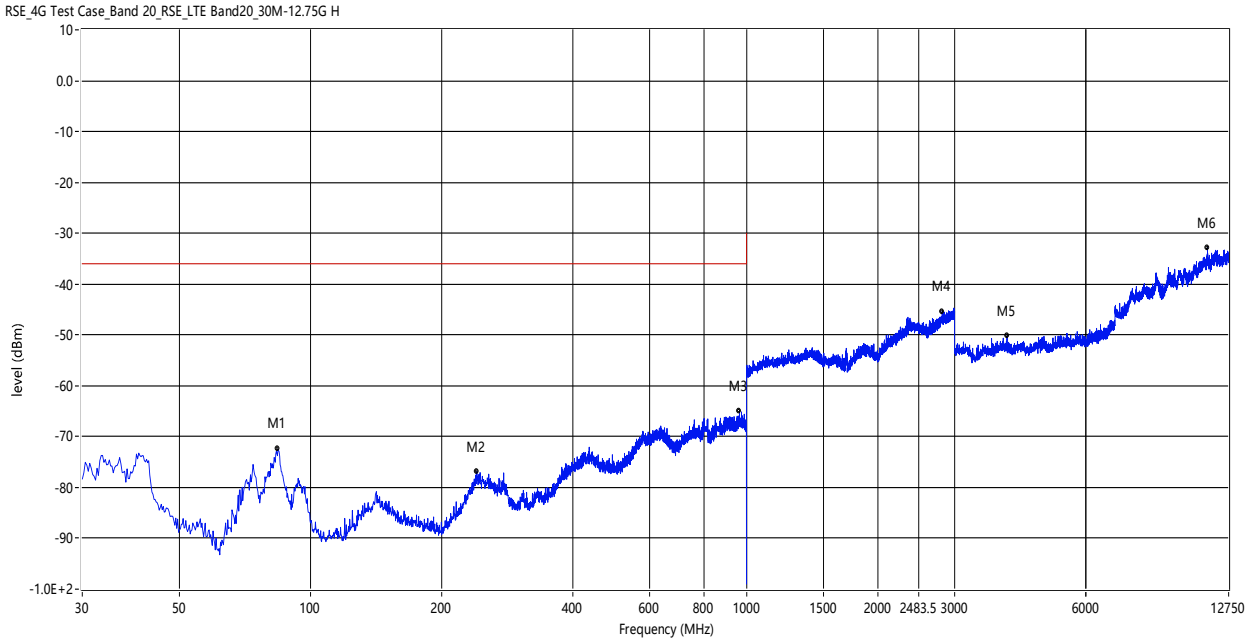
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
84.077	-71.71	-15.34	-36.0	-35.71	131.00	Horizontal	Vertical	Pass
250.432	-76.21	-2.31	-36.0	-40.21	216.00	Horizontal	Vertical	Pass
873.415	-62.55	7.79	-36.0	-26.55	257.30	Horizontal	Vertical	Pass
2994.500	-44.72	21.22	-30.0	-14.72	286.60	Horizontal	Vertical	Pass
4223.625	-50.23	4.37	-30.0	-20.23	358.50	Horizontal	Vertical	Pass
12540.375	-32.63	22.43	-30.0	-2.63	254.90	Horizontal	Vertical	Pass

RSE-LTE-Band 8-Mid CH-V



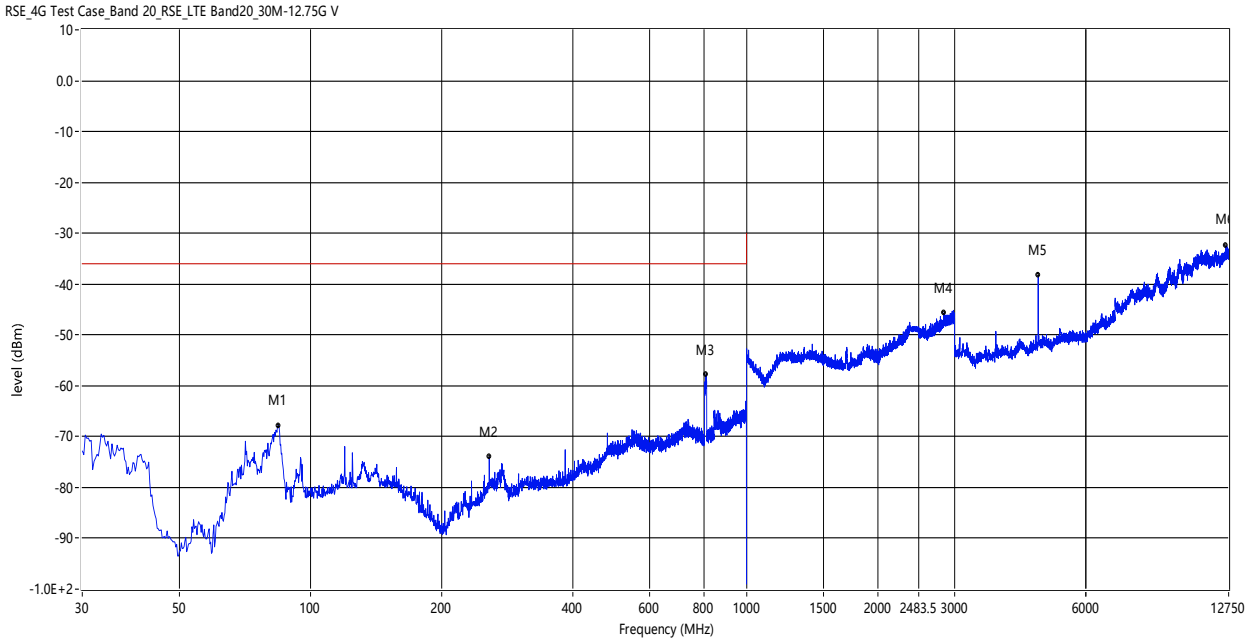
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
33.153	-68.28	-8.15	-36.0	-32.28	164.80	Vertical	Vertical	Pass
249.705	-75.17	-5.33	-36.0	-39.17	223.50	Vertical	Vertical	Pass
872.930	-61.21	8.23	-36.0	-25.21	203.70	Vertical	Vertical	Pass
2914.000	-45.47	20.27	-30.0	-15.47	47.40	Vertical	Vertical	Pass
5208.375	-49.25	6.70	-30.0	-19.25	171.50	Vertical	Vertical	Pass
12645.188	-30.74	23.37	-30.0	-0.74	146.20	Vertical	Vertical	Pass

RSE-LTE-Band 20-Mid CH-H



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
84.320	-72.42	-15.31	-36.0	-36.42	347.00	Horizontal	Vertical	Pass
240.975	-76.84	-1.98	-36.0	-40.84	358.70	Horizontal	Vertical	Pass
963.625	-65.06	9.53	-36.0	-29.06	181.10	Horizontal	Vertical	Pass
2810.500	-45.34	20.46	-30.0	-15.34	251.50	Horizontal	Vertical	Pass
3957.937	-50.20	4.11	-30.0	-20.20	0.80	Horizontal	Vertical	Pass
11402.063	-32.79	22.31	-30.0	-2.79	170.30	Horizontal	Vertical	Pass

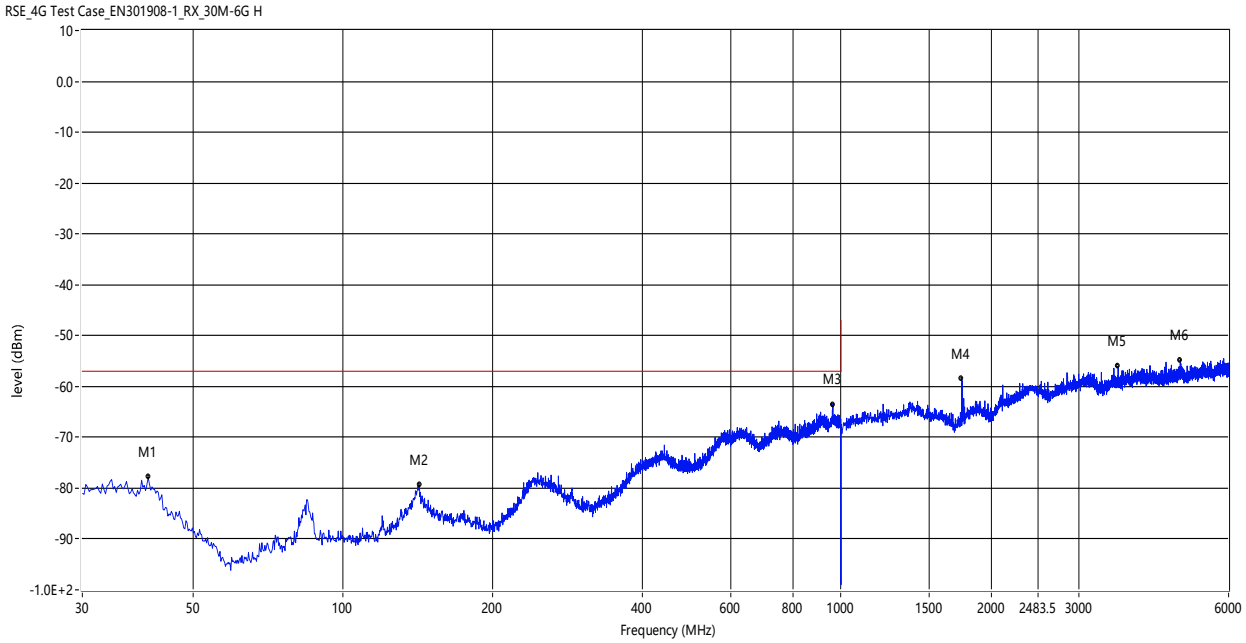
RSE-LTE-Band 20-Mid CH-V



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
84.562	-67.80	-12.65	-36.0	-31.80	152.50	Vertical	Vertical	Pass
257.222	-73.96	-3.81	-36.0	-37.96	325.10	Vertical	Vertical	Pass
807.213	-57.84	6.13	-36.0	-21.84	155.30	Vertical	Vertical	Pass
2836.500	-45.64	19.88	-30.0	-15.64	309.60	Vertical	Vertical	Pass
4664.813	-43.97	5.00	-30.0	-13.97	357.40	Vertical	Vertical	Pass
12567.187	-32.45	23.07	-30.0	-2.45	293.80	Vertical	Vertical	Pass

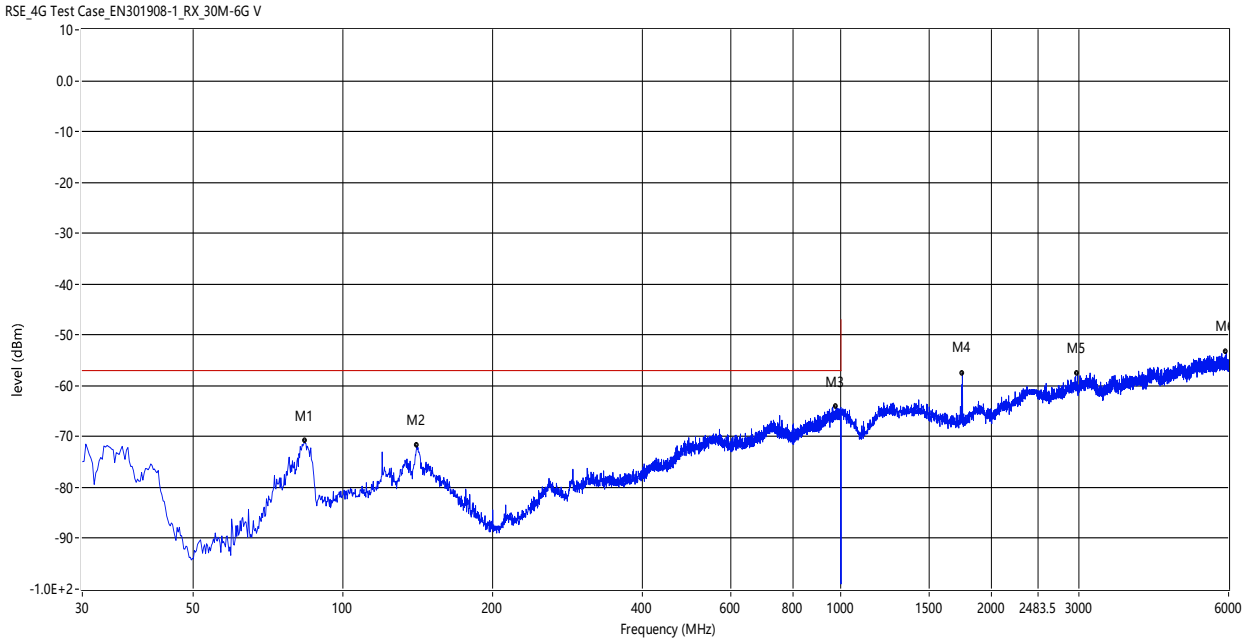
IDLE MODE

RSE-LTE Band 1-Mid CH-H



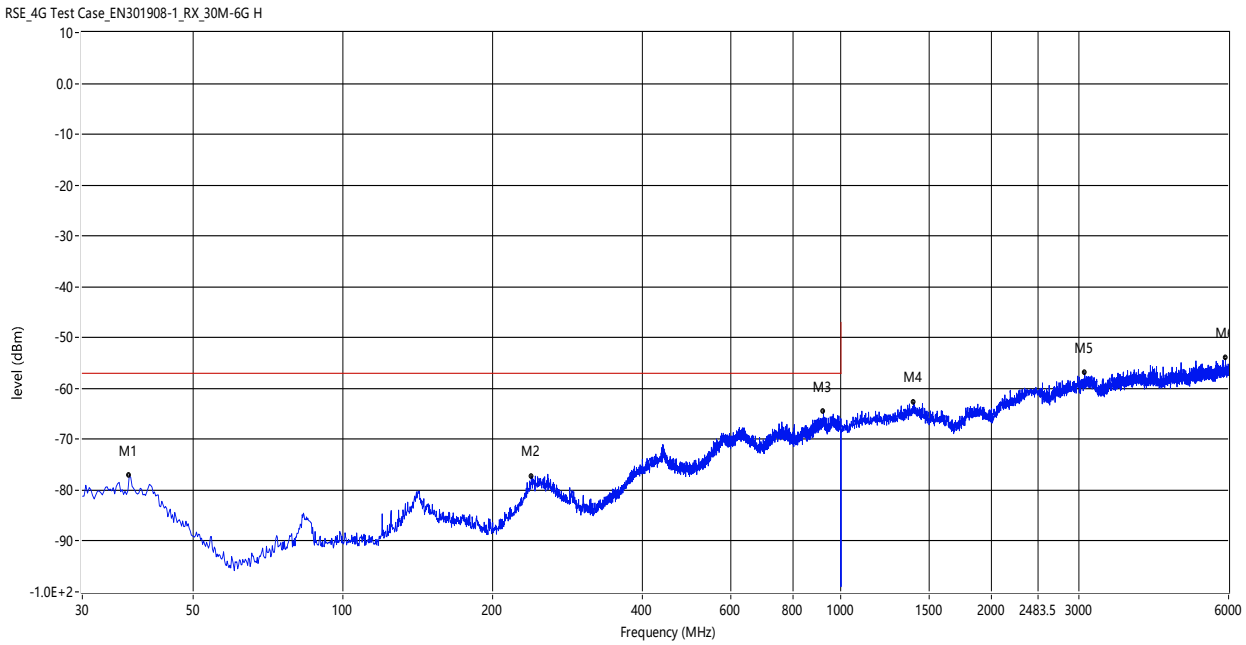
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.670	-77.89	-4.74	-57.0	-20.89	112.30	Horizontal	Vertical	Pass
142.520	-79.36	-6.68	-57.0	-22.36	106.80	Horizontal	Vertical	Pass
963.383	-63.52	9.54	-57.0	-6.52	239.60	Horizontal	Vertical	Pass
1746.250	-58.48	-5.08	-47.0	-11.48	359.20	Horizontal	Vertical	Pass
3600.000	-56.04	3.36	-47.0	-9.04	47.10	Horizontal	Vertical	Pass
4797.500	-54.87	5.17	-47.0	-7.87	83.60	Horizontal	Vertical	Pass

RSE-LTE Band 1-Mid CH-V



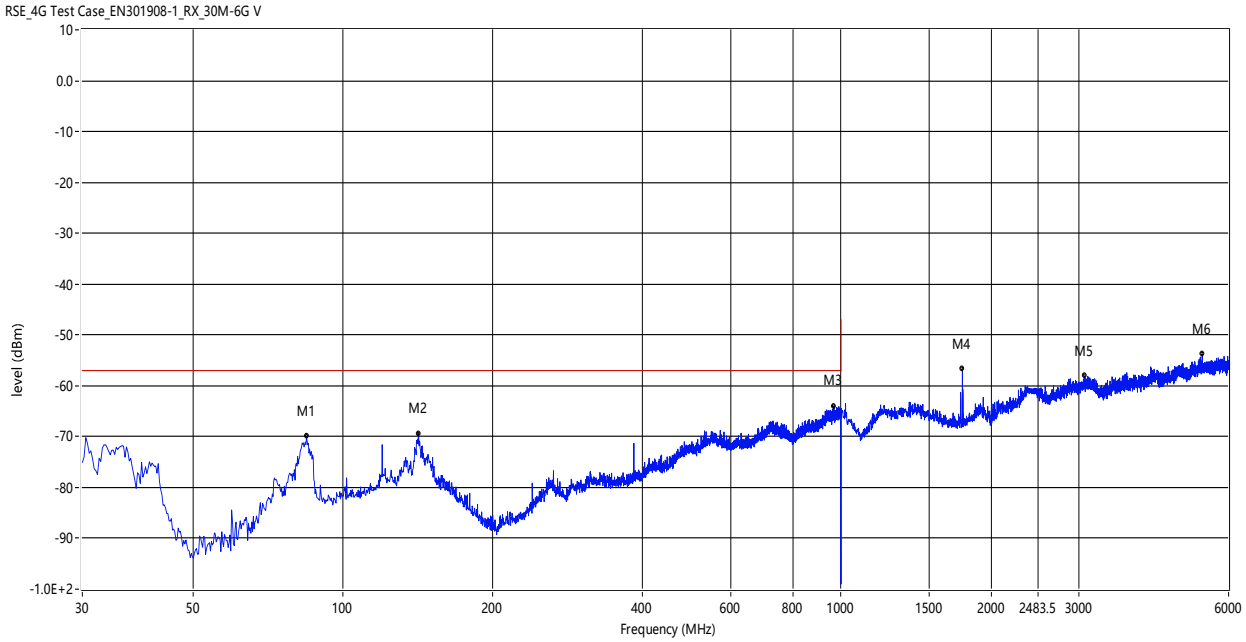
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
83.835	-70.81	-13.01	-57.0	-13.81	171.50	Vertical	Vertical	Pass
140.822	-71.79	-2.98	-57.0	-14.79	0.80	Vertical	Vertical	Pass
977.932	-64.08	10.37	-57.0	-7.08	359.50	Vertical	Vertical	Pass
1752.500	-57.50	-5.44	-47.0	-10.50	313.00	Vertical	Vertical	Pass
2981.250	-57.64	1.53	-47.0	-10.64	112.80	Vertical	Vertical	Pass
5932.500	-53.40	7.87	-47.0	-6.40	279.00	Vertical	Vertical	Pass

RSE-LTE Band 3-Mid CH-H



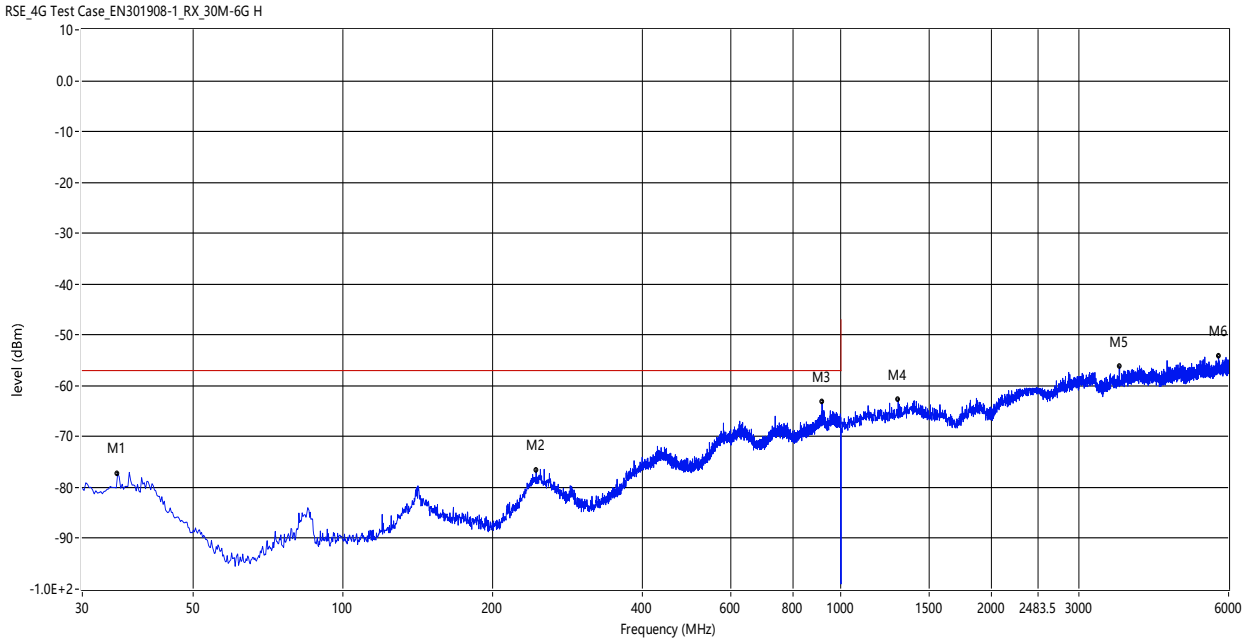
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
37.275	-77.11	-4.28	-57.0	-20.11	52.80	Horizontal	Vertical	Pass
239.035	-77.27	-2.28	-57.0	-20.27	219.90	Horizontal	Vertical	Pass
922.157	-64.56	9.45	-57.0	-7.56	356.70	Horizontal	Vertical	Pass
1401.250	-62.75	-3.29	-47.0	-15.75	225.30	Horizontal	Vertical	Pass
3085.000	-56.90	2.74	-47.0	-9.90	104.80	Horizontal	Vertical	Pass
5915.000	-54.09	7.13	-47.0	-7.09	307.70	Horizontal	Vertical	Pass

RSE-LTE Band 3-Mid CH-V



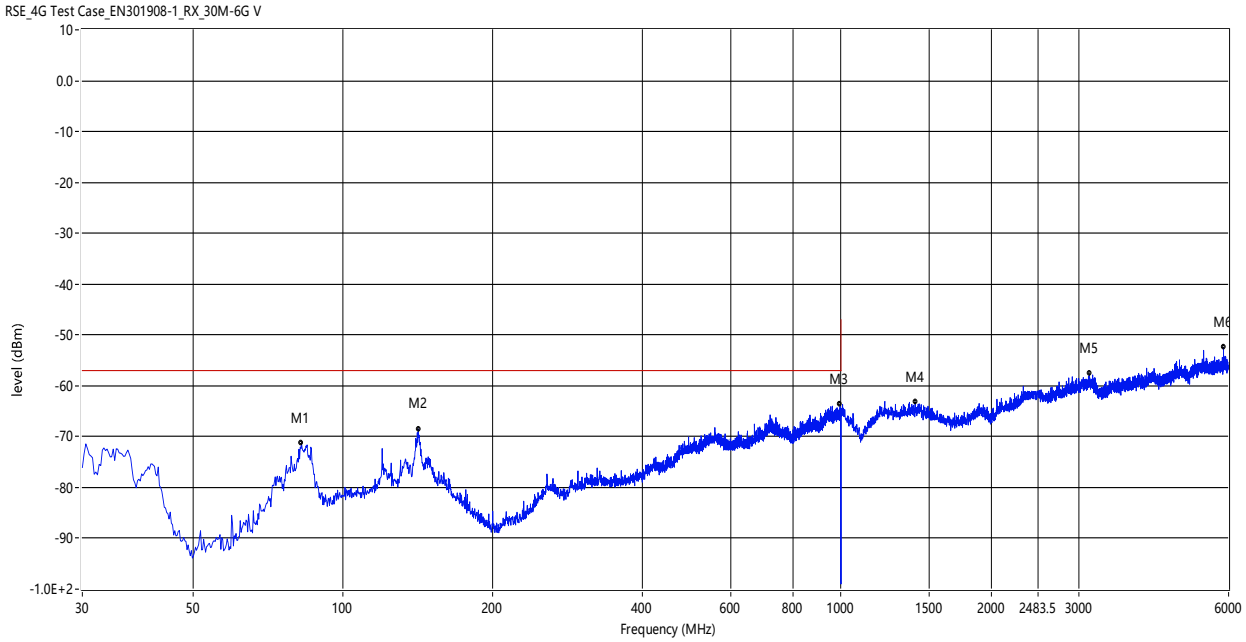
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
84.562	-70.03	-12.65	-57.0	-13.03	151.10	Vertical	Vertical	Pass
141.792	-69.37	-3.02	-57.0	-12.37	326.50	Vertical	Vertical	Pass
967.990	-63.98	10.18	-57.0	-6.98	295.30	Vertical	Vertical	Pass
1752.500	-56.71	-5.44	-47.0	-9.71	61.30	Vertical	Vertical	Pass
3087.500	-58.11	2.17	-47.0	-11.11	358.60	Vertical	Vertical	Pass
5308.750	-53.86	7.34	-47.0	-6.86	157.60	Vertical	Vertical	Pass

RSE-LTE Band 7-Mid CH-H



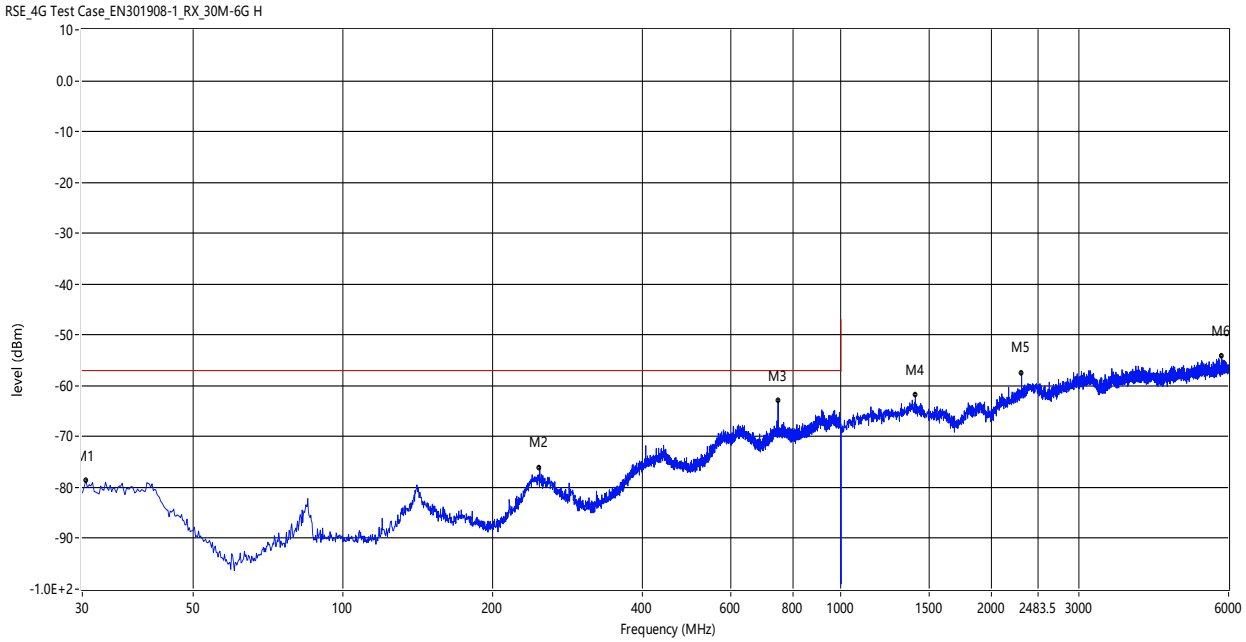
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
35.335	-77.25	-4.31	-57.0	-20.25	152.50	Horizontal	Vertical	Pass
244.370	-76.75	-2.10	-57.0	-19.75	45.00	Horizontal	Vertical	Pass
916.338	-63.24	9.46	-57.0	-6.24	28.00	Horizontal	Vertical	Pass
1302.500	-62.75	-4.65	-47.0	-15.75	191.00	Horizontal	Vertical	Pass
3625.000	-56.24	3.50	-47.0	-9.24	123.30	Horizontal	Vertical	Pass
5723.750	-54.26	6.97	-47.0	-7.26	41.20	Horizontal	Vertical	Pass

RSE-LTE Band 7-Mid CH-V



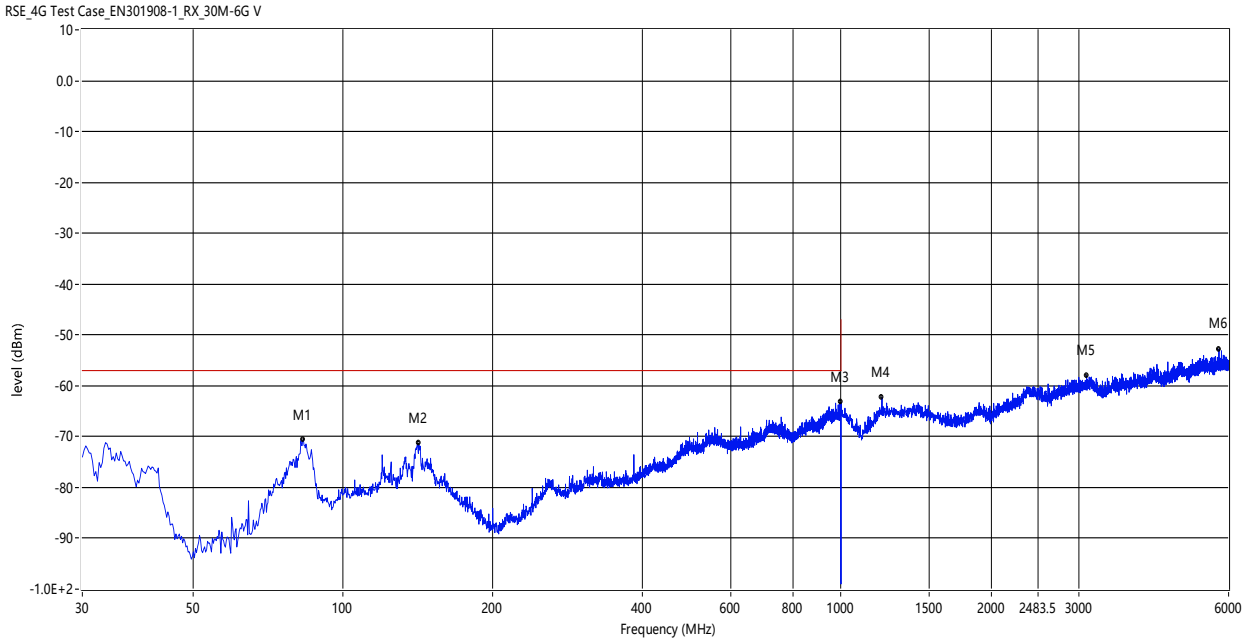
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
82.622	-71.30	-13.62	-57.0	-14.30	239.90	Vertical	Vertical	Pass
141.792	-68.48	-3.02	-57.0	-11.48	123.50	Vertical	Vertical	Pass
996.120	-63.73	10.60	-57.0	-6.73	242.70	Vertical	Vertical	Pass
1408.750	-63.19	-3.68	-47.0	-16.19	214.70	Vertical	Vertical	Pass
3151.250	-57.65	2.52	-47.0	-10.65	203.30	Vertical	Vertical	Pass
5861.250	-52.44	7.85	-47.0	-5.44	109.70	Vertical	Vertical	Pass

RSE-LTE Band 8-Mid CH-H



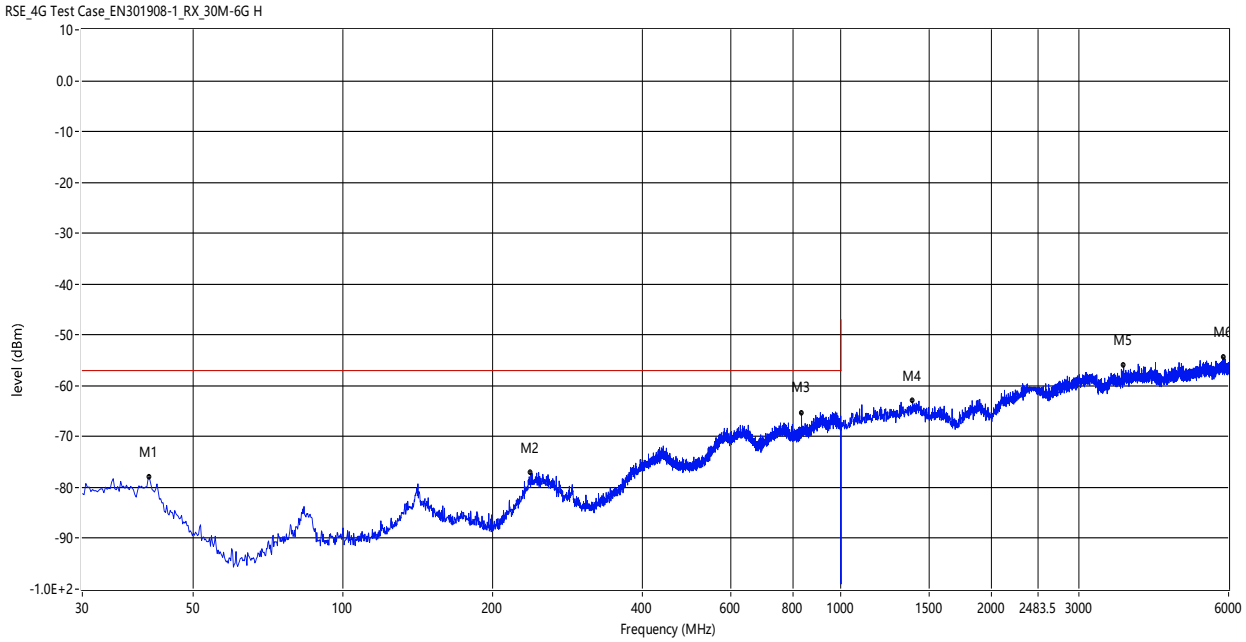
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
30.000	-81.14	-4.39	-57.0	-24.14	305.40	Horizontal	Vertical	Pass
248.492	-76.12	-2.24	-57.0	-19.12	166.10	Horizontal	Vertical	Pass
747.800	-62.94	7.15	-57.0	-5.94	311.00	Horizontal	Vertical	Pass
1411.250	-61.93	-3.44	-47.0	-14.93	182.30	Horizontal	Vertical	Pass
2305.000	-57.52	0.10	-47.0	-10.52	270.30	Horizontal	Vertical	Pass
5811.250	-54.28	7.02	-47.0	-7.28	338.60	Horizontal	Vertical	Pass

RSE-LTE Band 8-Mid CH-V



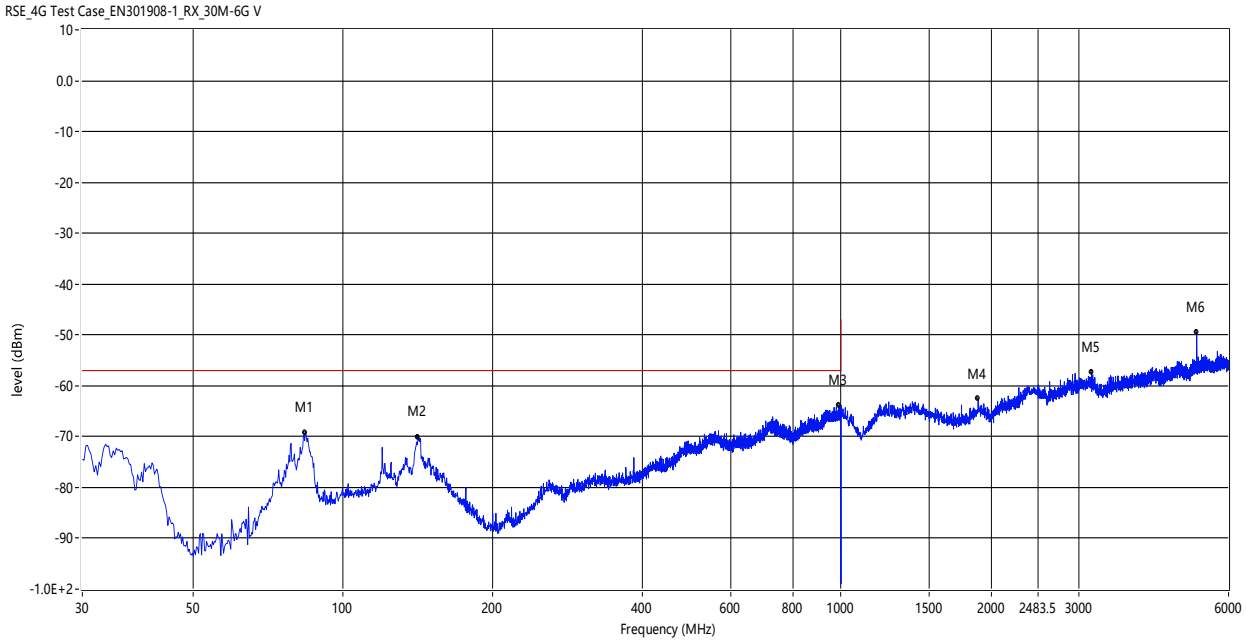
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
83.350	-70.57	-13.25	-57.0	-13.57	272.20	Vertical	Vertical	Pass
142.035	-71.31	-3.03	-57.0	-14.31	328.40	Vertical	Vertical	Pass
1000.000	-99.00	-27.77	-57.0	-42.00	0.00	Vertical	Vertical	Pass
1208.750	-62.29	-4.07	-47.0	-15.29	125.20	Vertical	Vertical	Pass
3112.500	-57.96	2.33	-47.0	-10.96	116.80	Vertical	Vertical	Pass
5738.750	-52.77	7.80	-47.0	-5.77	18.30	Vertical	Vertical	Pass

RSE-LTE Band 20-Mid CH-H



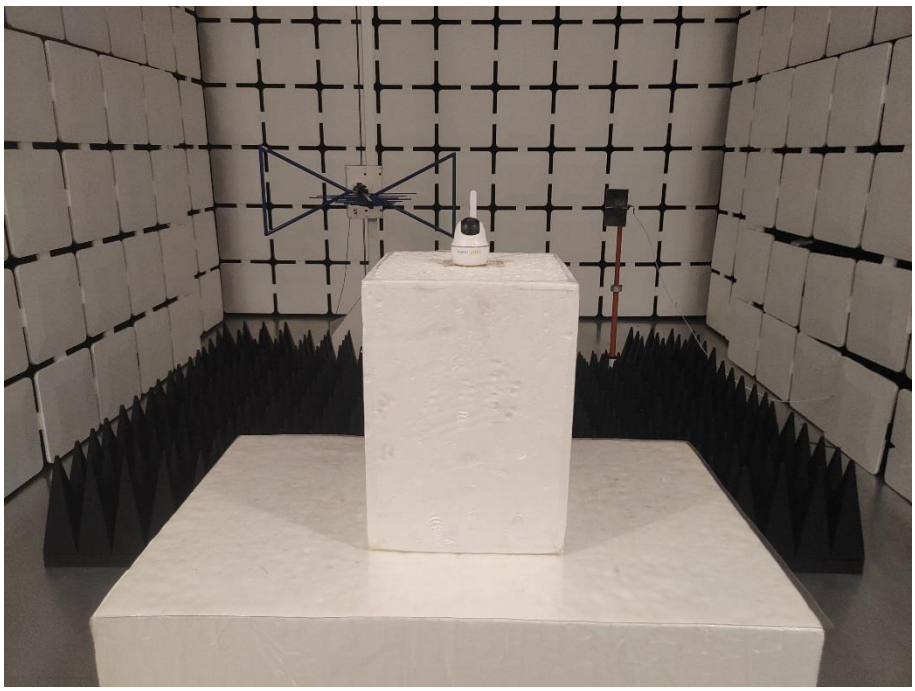
Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
40.913	-78.09	-4.92	-57.0	-21.09	180.80	Horizontal	Vertical	Pass
238.550	-77.14	-2.44	-57.0	-20.14	111.00	Horizontal	Vertical	Pass
833.402	-65.35	6.99	-57.0	-8.35	360.00	Horizontal	Vertical	Pass
1391.250	-62.98	-3.39	-47.0	-15.98	359.20	Horizontal	Vertical	Pass
3693.750	-56.11	3.89	-47.0	-9.11	359.70	Horizontal	Vertical	Pass
5868.750	-54.44	7.09	-47.0	-7.44	48.30	Horizontal	Vertical	Pass

RSE-LTE Band 20-Mid CH-V



Frequency (MHz)	Result (dBm)	Factor (dB)	PK Limit (dBm)	Over Limit (dB)	Table (o)	ANT	EUT	Verdict
84.077	-69.15	-12.89	-57.0	-12.15	282.90	Vertical	Vertical	Pass
141.550	-70.05	-3.01	-57.0	-13.05	121.70	Vertical	Vertical	Pass
990.542	-63.94	10.54	-57.0	-6.94	328.30	Vertical	Vertical	Pass
1885.000	-62.57	-3.41	-47.0	-15.57	231.20	Vertical	Vertical	Pass
3183.750	-57.34	2.67	-47.0	-10.34	219.80	Vertical	Vertical	Pass
5178.750	-49.50	6.90	-47.0	-2.50	245.10	Vertical	Vertical	Pass

APPENDIX - TEST SETUP PHOTO



※※※※※END OF THE REPORT※※※※※

EN 50665
EN 62311

TEST REPORT

For

Reolink Go PT Plus

MODEL: Reolink Go PT Plus, Reolink Go PT EXT

REPORT NUMBER: 4790400563.1-4

ISSUE DATE: May 18, 2022

Prepared for

REOLINK INNOVATION LIMITED
FLAT/RM 705 7/F FA YUEN COMMECIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG

Prepared by

UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch

Building 10, Innovation Technology Park, No. 1, Li Bin Road, Song Shan Lake Hi-Tech Development Zone Dongguan, 523808, People's Republic of China

Tel: +86 769 22038881
Fax: +86 769 33244054
Website: www.ul.com

Revision History

Rev.	Issue Date	Revisions	Revised By
V0	05/18/2022	Initial Issue	

Note: This is a copy report base on 4790194520.3-7 which is issued by UL Verification Services (Guangzhou) Co., Ltd, Song Shan Lake Branch on February 28, 2022. The customer wants to add a new serial model but everything about the equipment under test remain unchanged, so we only update the information in this report without any test. For more information, please refer to the original report.

TABLE OF CONTENTS

1. ATTESTATION OF TEST RESULTS

Applicant Information

Company Name:	REOLINK INNOVATION LIMITED
Address:	FLAT/RM 705 7/F FA YUEN COMMECIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG

Manufacturer Information

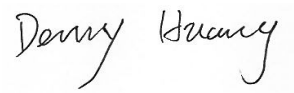
Company Name:	REOLINK INNOVATION LIMITED
Address:	FLAT/RM 705 7/F FA YUEN COMMECIAL BUILDING 75-77 FA YUEN STREET MONG KOK KL HONG KONG

EUT Information

EUT Name:	Reolink Go PT Plus
Model:	Reolink Go PT Plus, Reolink Go PT EXT
Model Difference:	All the same except for the model name.
Sample Received Date:	December 30, 2021
Sample Status:	Normal
Date of Tested:	December 30, 2021 ~ February 18, 2022

APPLICABLE STANDARDS	
STANDARD	**TEST RESULTS**
EN 50665:2017	**PASS**
EN IEC 62311:2020	**PASS**

Prepared By:



Denny Huang
Project Engineer

Checked By:

Shawn Wen
Laboratory Leader

Approved By:

Stephen Guo

Laboratory Manager

2. FACILITIES AND ACCREDITATION

2.1 TEST FACTORY

Company Name:	SHENZHEN STS TEST SERVICES CO., LTD.
Address:	A 1/F, Building B, Zhuoke Science Park, No.190 Chongqing Road, HepingShequ, Fuyong Sub-District, Bao'an District, Shenzhen, Guang Dong, China
Telephone:	+86-755 3688 6288
Fax:	+86-755 3688 6277
Registration No.:	FCC test Firm Registration Number: 625569
	IC test Firm Registration Number: 12108A
	A2LA Certificate No.: 4338.01

3. GENERAL INFORMATION

Product Name	Reolink Go PT Plus	
Model	Reolink Go PT Plus, Reolink Go PT EXT	
Model Difference	All the same except for the model name.	
Frequency Bands	WCDMA	Band 1: 1920-1980 MHz Band 8: 880-915 MHz
	LTE	Band 1: 1920-1980 MHz Band 3: 1710-1785 MHz Band 7: 2500-2570 MHz Band 8: 880-915 MHz Band 20: 832-862 MHz
Modulation Mode	WCDMA	WCDMA: QPSK; HSDPA:QPSK/16QAM; HSUPA:BPSK
	LTE	QPSK/16QAM
Rating	Input: USB: DC 5 V or DC 3.7 V Battery	

4. REQUIREMENT

4.1 TEST STANDARDS

Equipment complying with the requirements for the general public is deemed to comply with the requirements for workers without further testing.

The measurements and calculations to demonstrate equipment compliance shall be made according to EN 62311:2008, Clauses 4 and 5, The general considerations as defined in EN 62311:2008, Clauses 4 and 5 shall apply to all equipment.

EN 62311: 2008	Assessment of electronic and electrical equipment related to human exposure restrictions for electromagnetic fields (0 Hz - 300 GHz)

4.2 HUMAN EXPOSURE TO THE ELECTROMAGNETIC FIELDS

LIMIT

According to EN62311:2008, the criteria listed in the following table shall be used to evaluate the environmental impact of human exposure to radio-frequency (RF) radiation as specified 1999/519/EC.

Reference levels for electric, magnetic and electromagnetic fields (0 Hz to 300 GHz, unperturbed rms values)

Frequency range	E-field strength (V/m)	H-field strength (A/m)	B-field (μT)	Equivalent plane wave power density S_{eq} (W/m²)
0-1 Hz	—	$3,2 \times 10^4$	4×10^4	—
1-8 Hz	10 000	$3,2 \times 10^4/f^2$	$4 \times 10^4/f^2$	—
8-25 Hz	10 000	4 000/f	5 000/f	—
0,025-0,8 kHz	250/f	4/f	5/f	—
0,8-3 kHz	250/f	5	6,25	—
3-150 kHz	87	5	6,25	—
0,15-1 MHz	87	0,73/f	0,92/f	—
1-10 MHz	$87/f^{1/2}$	0,73/f	0,92/f	—
10-400 MHz	28	0,073	0,092	2
400-2 000 MHz	$1,375\ f^{1/2}$	$0,0037\ f^{1/2}$	$0,0046\ f^{1/2}$	f/200
2-300 GHz	61	0,16	0,20	10

Notes:

1. f as indicated in the frequency range column.
2. For frequencies between 100 kHz and 10 GHz, S_{eq}, E^2, H^2, and B^2 are to be averaged over any six-minute period.
3. For frequencies exceeding 10 GHz, S_{eq}, E^2, H^2, and B^2 are to be averaged over any $68/f^{1.05}$ -minute period (f in GHz).
4. No E-field value is provided for frequencies < 1 Hz, which are effectively static electric fields. For most people the annoying perception of surface electric charges will not occur at field strengths less than 25 kV/m. Spark discharges causing stress or annoyance should be avoided.

RESULT

WCDMA

Operating Band (MHz)	Frequency (MHz)	Antenna Gain (dBi)	Tune-UP Conducted Time Average Power (dBm)	Tune-UP Power (W)	E-Field Strength (V/m)	E-Field Strength Limit (V/m)	Pass / Fail
WCDMA2100	1920-1980	3	24.0	0.251	19.38	60.29	Pass
WCDMA900	880-915	3	24.0	0.251	19.38	40.84	Pass

LTE

Operating Band (MHz)	Frequency (MHz)	Antenna Gain (dBi)	Tune-UP Conducted Time Average Power (dBm)	Tune-UP Power (W)	E-Field Strength (V/m)	E-Field Strength Limit (V/m)	Pass / Fail
LTE Band 1	1920-1980	3	24.0	0.251	19.38	60.29	Pass
LTE Band 3	1710-1785	3	24.0	0.251	19.38	56.87	Pass
LTE Band 7	2500-2570	3	23.5	0.224	18.31	61.00	Pass
LTE Band 8	880-915	3	24.0	0.251	19.38	40.81	Pass
LTE Band 20	832-862	3	23.5	0.224	18.31	39.72	Pass

Note: 1. The Power comes from module MPE report SEA210112W006.
2. Only the worst data was recorded in the report.
3. The assess distance is 20cm.

Conclusion:
According to Council Recommendation 1999/519/EC, the exposure analysis concludes that the RF exposure is CE compliant.

※※※※※END OF THE REPORT※※※※※