



FCC RADIO TEST REPORT

FCC ID : ACJ9TGWW21B
Equipment : Radio Module
Brand Name : Panasonic
Model Name : WW21B
Applicant : Panasonic Corporation of North America
Two Riverfront Plaza, Newark, New Jersey, 07102-5490, USA
Standard : FCC 47 CFR Part 2, 96

The product was received on Sep. 02, 2025 and testing was performed from Sep. 03, 2025 to Oct. 14, 2025. We, Sporton International Inc. EMC & Wireless Communications Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures given in ANSI / TIA-603-E and has been in compliance with the applicable technical standards.

The test results in this partial report apply exclusively to the tested model / sample. Without written approval from Sporton International Inc. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. EMC & Wireless Communications Laboratory

No. 52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333, Taiwan (R.O.C.)



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History of this test report

Report No.	Version	Description	Issue Date
FG4D1251-02C	01	Initial issue of report	Dec. 01, 2025

Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	-
-	§96.41	Peak-to-Average Ratio	Pass	See Note
3.3	§96.41	Effective Isotropic Radiated Power	Pass	-
-	§2.1049 §96.41	Occupied Bandwidth	Pass	See Note
-	§2.1051 §96.41	Conducted Band Edge Measurement	Pass	See Note
-	§2.1051 §96.41	Conducted Spurious Emission	Pass	See Note
-	§2.1055	Frequency Stability for Temperature & Voltage	Pass	See Note
4.4	§2.1053 §96.41	Radiated Spurious Emission	Pass	-

Remark:

- For host device, the spot check Radiated Spurious Emission and complies with the limit in this test report.
- For host device, the spot check Conducted Output Power is no difference after compared to module (Model: Panasonic WW21B)

Conformity Assessment Condition:

- The test results (PASS/FAIL) with all measurement uncertainty excluded are presented against the regulation limits or in accordance with the requirements stipulated by the applicant/manufacture who shall bear all the risks of non-compliance that may potentially occur if measurement uncertainty is taken into account.
- The measurement uncertainty please refer to each test result in the section "Measurement Uncertainty".

Disclaimer:

The product specifications of the EUT presented in the test report that may affect the test assessments are declared by the manufacturer who shall take full responsibility for the authenticity.

Reviewed by: Keven Cheng
Report Producer: Freda Wu

1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	WCDMA/LTE
Installed into the Host	Brand Name: Panasonic Model Name: FZ-40(mk3)
Antenna Type for Host	Monopole Antenna
Antenna Gain for Host	B48: 1.4 dBi

Support band and evaluated information	
Supported band	B48
Evaluated and Tested band	B48

TDD band Power Class				
	PC3	PC2		
B48	V			

Antenna information(dBi)							
Band	Ant 0		Main Ant. #				
B48	1.4	-	0				

Remark: The above EUT's information was declared by manufacturer. Please refer to Disclaimer in report summary.

Accessories Information for Host		
AC Adapter	Brand Name	Panasonic
	Model Name	CF-AA5713A
Battery	Brand Name	Panasonic
	Model Name	FZ-VZSU1XU

1.2 Modification of EUT

No modifications made to the EUT during the testing.



1.3 Testing Site

Test Site	Sporton International Inc. EMC & Wireless Communications Laboratory
Test Site Location	No.52, Huaya 1st Rd., Guishan Dist., Taoyuan City 333
Test Site No.	Sporton Site No.
	TH03-HY
Test Engineer	Yuki Chen
Temperature (°C)	22.2~23.4
Relative Humidity (%)	53.2~55.5

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010
Test Site No.	Sporton Site No.
	03CH20-HY (TAF Code: 3786)
Test Engineer	John Chuang, David Dai and Sam Chou
Temperature (°C)	19.0~22.2
Relative Humidity (%)	64.6~70.0
Remark	The Radiated Spurious Emission test item subcontracted to Sporton International Inc. Wensan Laboratory.

Note: The test site complies with ANSI C63.4 2014 requirement.

FCC Designation No.: TW1190 and TW3786

1.4 Applied Standards

According to the specifications declared by the manufacturer, the EUT must comply with the requirements of the following standards:

- ♦ ANSI C63.26-2015
- ♦ ANSI / TIA-603-E
- ♦ FCC 47 CFR Part 2, 96
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 414788 D01 Radiated Test Site v01r01

Remark:

1. All the test items were validated and recorded in accordance with the standards without any modification during the testing.
2. The TAF code is not including all the FCC KDB listed without accreditation.

2 Test Configuration of Equipment Under Test

2.1 Test Mode

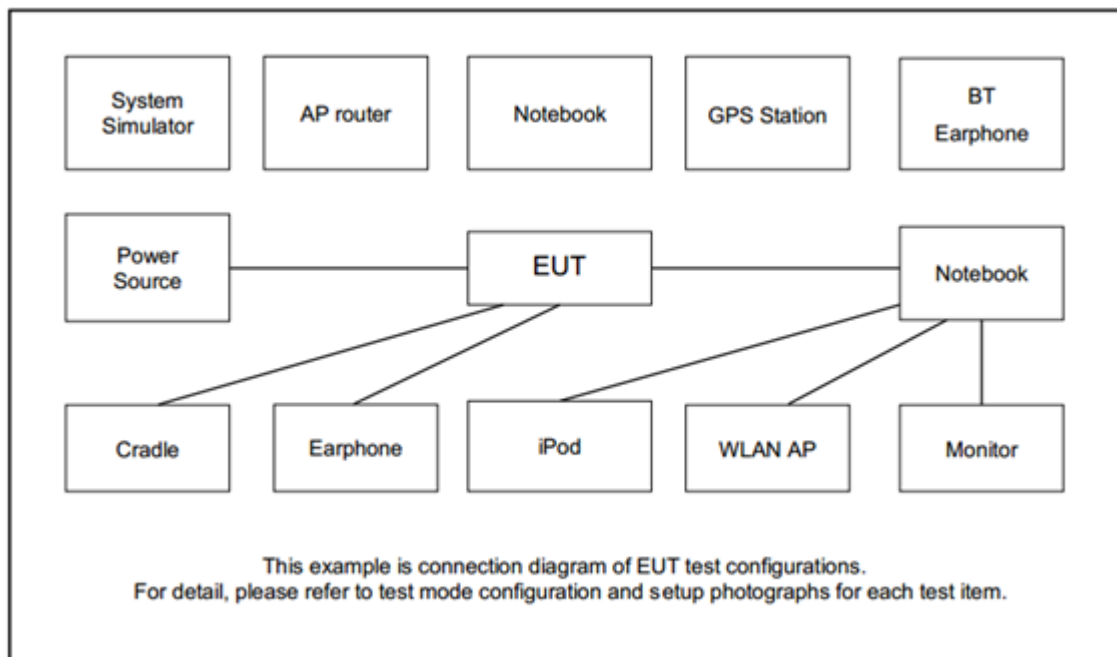
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

For radiated measurement, the measured emission level of the EUT was maximized by rotating the EUT on a turntable, adjusting the orientation of the EUT and EUT antenna in three orthogonal axis (X: flat, Y: portrait, Z: landscape) and accessory (Adapter or Earphone), and adjusting the measurement antenna orientation, following C63.26 exploratory test procedures and only the worst case emissions were reported in this report..

Modulation Type	Modulation
A	QPSK
B	16QAM
C	64QAM
D	256QAM

Test Item	Modulation Type	Bandwidth	RB Size	Channel
Conducted Power	A, B, C, D	All	1, Half, Full	L, M, H
EIRP	A, B, C, D	All	1, Half, Full	L, M, H
RSE	A	20 MHz	1RB	L, M, H
Remark: 1. Evaluated all the transmitter signal and reporting worst-case configuration among all modulation types. 2. The device is investigated from 30MHz to 10 times of fundamental signal for radiated spurious emission test under different RB size/offset and modulations in exploratory test. Subsequently, only the worst-case emissions are reported.				

2.2 Connection Diagram of Test System



2.3 Support Unit used in test configuration and system

Item	Equipment	Brand Name	Model No.	FCC ID	Data Cable	Power Cord
1.	Notebook	DELL	Latitude5310	FCC DoC	N/A	AC I/P: Unshielded, 1.2 m DC O/P: Shielded, 1.8 m
2.	Base Station	Anritsu	MT8820C	N/A	N/A	Unshielded, 1.8 m
3.	Base Station	Anritsu	MT8000A	N/A	N/A	Unshielded, 1.8 m
4.	Earphone	Moto	SJYN1181B	N/A	N/A	Unshielded, 1.25m



2.4 Frequency List of Low/Middle/High Channels

LTE Band 48 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	55340	55990	56640
	Frequency	3560	3625	3690
15	Channel	55315	55990	56665
	Frequency	3557.5	3625	3692.5
10	Channel	55290	55990	56690
	Frequency	3555	3625	3695
5	Channel	55265	55990	56715
	Frequency	3552.5	3625	3697.5

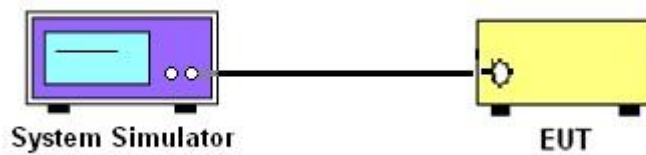
3 Conducted Test Items

3.1 Measuring Instruments

See list of measuring instruments of this test report.

3.1.1 Test Setup

3.1.2 Conducted Output Power



3.1.3 Test Result of Conducted Test

Please refer to Appendix A.



3.2 Conducted Output Power Measurement

3.2.1 Description of the Conducted Output Power Measurement

A base station simulator was used to establish communication with the EUT. Its parameters were set to transmit the maximum power on the EUT. The measured power in the radio frequency on the transmitter output terminals shall be reported.

3.2.2 Test Procedures

1. The transmitter output port was connected to base station.
2. Set EUT at maximum power through base station.
3. Select lowest, middle, and highest channels for each band and different modulation.
4. Measure and record the power level from the system simulator.



3.3 EIRP

3.3.1 Description of the EIRP Measurement

The EIRP of mobile transmitters must not exceed 23 dBm /10 megahertz for LTE Band 48.

The testing follows ANSI C63.26-2015 Section 5.2.5.5.

According to KDB 412172 D01 Power Approach,

$EIRP = PT + GT - LC$, where

PT = transmitter output power in dBm

GT = gain of the transmitting antenna in dBi

LC = signal attenuation in the connecting cable between the transmitter and antenna in dB

Device	Maximum EIRP (dBm/10 MHz)	Maximum PSD (dBm/MHz)
End User Device	23	n/a

Remark: Total channel power is complied with EIRP limit 23dBm/10MHz.

3.3.2 Test Procedures

The testing follows procedure in Section 5.2 of ANSI C63.26-2015 and KDB 940660 D01 Part 96 CBRS Eqpt v03 Section 3.2(b)(2)

Determine the EIRP by adding the effective antenna gain to the measured average conducted power level.

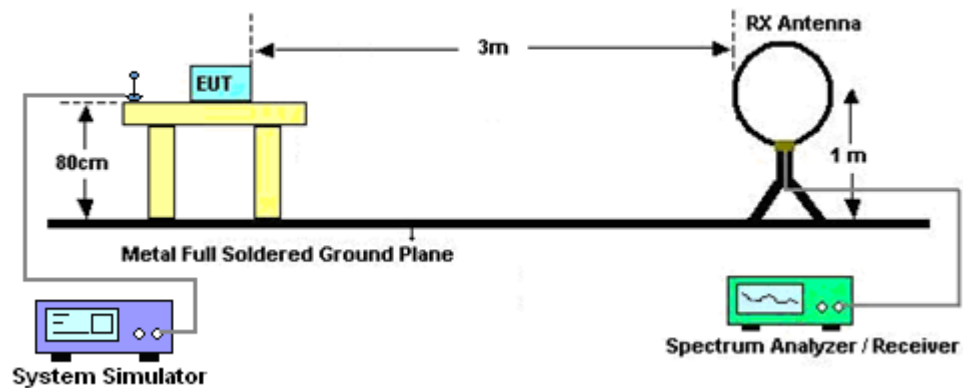
4 Radiated Test Items

4.1 Measuring Instruments

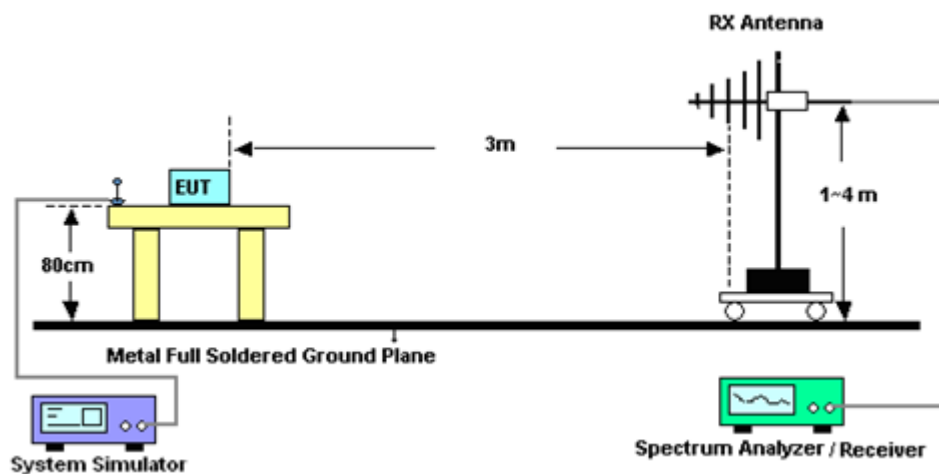
See list of measuring instruments of this test report.

4.2 Test Setup

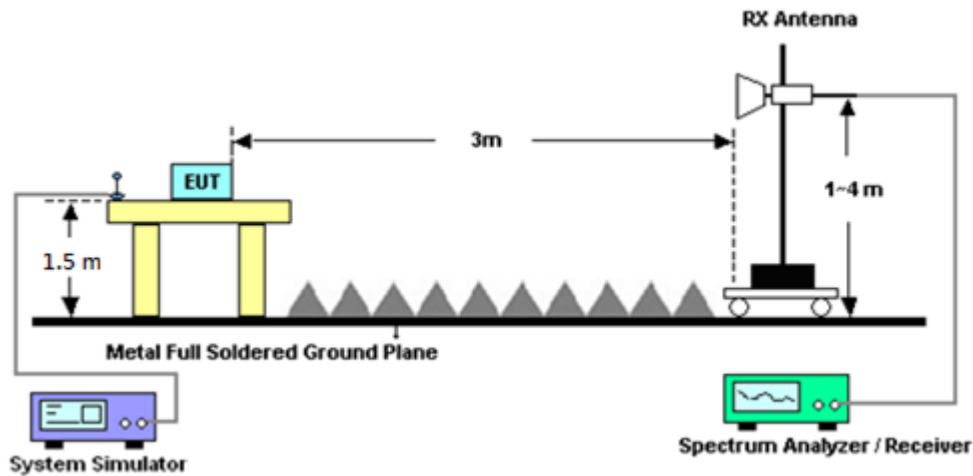
For radiated test below 30MHz



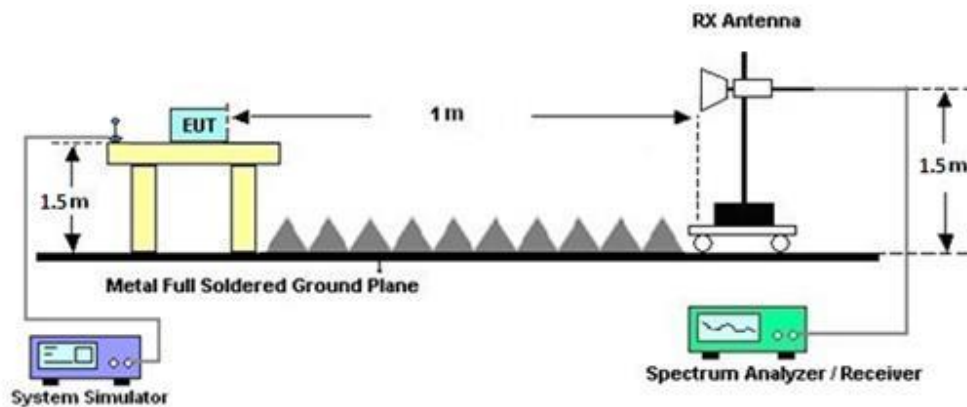
For radiated test from 30MHz to 1GHz



For radiated emissions from 1GHz to 18GHz



For radiated emissions above 18GHz



4.3 Test Result of Radiated Test

Please refer to Appendix B.

Note:

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is adequate comparison measurement of both open-field test site and alternative test site - semi-Anechoic chamber according to 414788 D01 Radiated Test Site v01r01, and the result came out very similar.

4.4 Radiated Spurious Emission

4.4.1 Description of Radiated Spurious Emission

The radiated spurious emission was measured by substitution method according to ANSI / TIA-603-E.

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitter power (P) by a factor of at least -40dBm / MHz

The spectrum is scanned from 30 MHz up to a frequency including its 10th harmonic.

4.4.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 7 and ANSI C63.26-2015 section 5.5.4 Radiated measurement using the field strength method.

1. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
2. The EUT was set 3 meters from the receiving antenna mounted on the antenna tower.
3. The table was rotated 360 degrees to determine the position of the highest spurious emission.
4. The height of the receiving antenna is varied between 1m to 4m to search the maximum spurious emission for both horizontal and vertical polarizations.
5. During the measurement, the system simulator parameters were set to force the EUT transmitting at maximum output power.
6. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
7. To convert spectrum reading E(dBuV/m) to EIRP(dBm)
$$\text{EIRP(dBm)} = \text{Level (dBuV/m)} + 20\log(d) - 104.77,$$
where d is the distance at which field strength limit is specified in the rules
8. Field Strength Level (dBm) = Spectrum Reading (dBm) + Antenna Factor + Cable Loss + Read Level - Preamp Factor.
9. ERP (dBm) = EIRP (dBm) - 2.15
10. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



5 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A(MXE)	MY54130085	N/A	Oct. 16, 2024	Sep. 16, 2025~ Oct. 08, 2025	Oct. 15, 2025	Radiation (03CH20-HY)
Loop Antenna	Rohde & Schwarz	HFH2-Z2E	101108	9 kHz~30 MHz	Nov. 18, 2024	Sep. 16, 2025~ Oct. 08, 2025	Nov. 17, 2025	Radiation (03CH20-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Sep. 16, 2025~ Oct. 08, 2025	Aug. 25, 2026	Radiation (03CH20-HY)
Controller	ChainTek	3000-1	N/A	Control Turn table & Ant Mast	N/A	Sep. 16, 2025~ Oct. 08, 2025	N/A	Radiation (03CH20-HY)
Antenna Mast	ChainTek	MBS-520-1	N/A	1m~4m	N/A	Sep. 16, 2025~ Oct. 08, 2025	N/A	Radiation (03CH20-HY)
Turn Table	ChainTek	T-200-S-1	N/A	0~360 Degree	N/A	Sep. 16, 2025~ Oct. 08, 2025	N/A	Radiation (03CH20-HY)
Signal Analyzer	Keysight	N9010B	MY60240520	N/A	Dec. 09, 2024	Sep. 16, 2025~ Oct. 08, 2025	Dec. 08, 2025	Radiation (03CH20-HY)
Bilog Antenna	TESEQ	CBL 6111D&00800 N1D01N-06	55606 & 08	30MHz~1GHz	Nov. 27, 2024	Sep. 16, 2025~ Oct. 08, 2025	Nov. 26, 2025	Radiation (03CH20-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	02360	1GHz-18GHz	Nov. 01, 2024	Sep. 16, 2025~ Oct. 08, 2025	Oct. 31, 2025	Radiation (03CH20-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA 9170	00994	18GHz-40GHz	Jan. 09, 2025	Sep. 16, 2025~ Oct. 08, 2025	Jan. 08, 2026	Radiation (03CH20-HY)
Preamplifier	COM-POWER	PAM-103	18020201	1MHz-1000MHz	Dec. 31, 2024	Sep. 16, 2025~ Oct. 08, 2025	Dec. 30, 2025	Radiation (03CH20-HY)
Amplifier	EMCI	EMC118A45S E	980792	N/A	Nov. 12, 2024	Sep. 16, 2025~ Oct. 08, 2025	Nov. 11, 2025	Radiation (03CH20-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	519229/2,8 04015/2,80 4027/2	N/A	Jan. 16, 2025	Sep. 16, 2025~ Oct. 08, 2025	Jan. 15, 2026	Radiation (03CH20-HY)
Hygrometer	TECPEL	DTM-303A	TP211382	N/A	Mar. 31, 2025	Sep. 16, 2025~ Oct. 08, 2025	Mar. 30, 2026	Radiation (03CH20-HY)
Software	Audix	N/A	RK-00215 6	N/A	N/A	Sep. 16, 2025~ Oct. 08, 2025	N/A	Radiation (03CH20-HY)
Radio Communication Analyzer	Anritsu	MT8821C	626202535 3	LTE FDD/TDD LTE-2CC DLCA/ULCA	Oct. 01, 2024	Sep. 03, 2025~ Sep. 29, 2025	Sep. 30, 2025	Conducted (TH03-HY)
Radio Communication Analyzer	Anritsu	MT8821C	620166475 5	LTE FDD/TDD(with4 4), LTE-4CC DLCA/2CC ULCA, CatM1/NB1/NB2	Jul. 05, 2025	Sep. 30, 2025~ Oct. 14, 2025	Jul. 04, 2026	Conducted (TH03-HY)
Coupler+10dB+ RFcable	Warison + WoKen + E-Instument	20dB 25W SMA Directional Coupler+ 10dB 18GHz_5W+ SFL405_1.5M	#A+#1+#1 +#7	1-18GHz	Jan. 03, 2025	Sep. 03, 2025~ Oct. 14, 2025	Jan. 02, 2026	Conducted (TH03-HY)
Power divider	Anritsu	K241C	2143398	9KHz~40GHz	Jun. 13, 2025	Sep. 03, 2025~ Oct. 14, 2025	Jun. 12, 2026	Conducted (TH03-HY)
Spectrum Analyzer	Rohde & Schwarz	FSV3044	101049	10Hz~44GHz	Jul. 04, 2025	Sep. 03, 2025~ Oct. 14, 2025	Jul. 03, 2026	Conducted (TH03-HY)
Software	Sporton	LTE Conducted Test Tools	N/A	Conducted Test Item	N/A	Sep. 03, 2025~ Oct. 14, 2025	N/A	Conducted (TH03-HY)
Hygrometer	TECPEL	DTM-303B	TP200886	-10 ~ 50°C / 20 ~ 95%RH	Mar. 03, 2025	Sep. 03, 2025~ Oct. 14, 2025	Mar. 02, 2026	Conducted (TH03-HY)

6 Measurement Uncertainty

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.7 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.4 dB
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Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.6 dB
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Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.7 dB
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Appendix A. Test Results of Conducted Test

Conducted Output Power (Average power and EIRP)

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 1.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
20	1	0	QPSK	17.48	17.82	17.72	19.32	0.0855
20	1	49		17.49	17.70	17.64		
20	1	99		17.59	17.86	17.76		
20	50	0		17.68	17.87	17.83		
20	50	24		17.65	17.90	17.87		
20	50	50		17.69	17.89	17.82		
20	100	0		17.65	17.92	17.86		
20	1	0	16-QAM	18.04	18.36	18.27	19.86	0.0968
20	1	49		18.06	18.40	18.30		
20	1	99		18.17	18.46	18.36		
20	50	0		17.68	17.88	17.85		
20	50	24		17.70	17.95	17.89		
20	50	50		17.73	17.96	17.82		
20	100	0		17.68	17.88	17.82		
20	1	0	64-QAM	17.48	17.78	17.71	19.40	0.0871
20	1	49		17.49	17.77	17.62		
20	1	99		17.62	17.81	17.71		
20	50	0		17.74	17.94	17.92		
20	50	24		17.75	18.00	17.95		
20	50	50		17.76	17.99	17.88		
20	100	0		17.70	17.93	17.87		
20	1	0	256-QAM	17.94	18.24	18.19	19.67	0.0927
20	1	49		17.94	18.26	18.14		
20	1	99		18.03	18.27	18.22		
20	50	0		17.70	17.95	17.90		
20	50	24		17.73	17.98	17.93		
20	50	50		17.72	17.98	17.83		
20	100	0		17.73	17.96	17.91		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 1.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
15	1	0	QPSK	17.44	17.73	17.63	19.25	0.0841
15	1	37		17.44	17.75	17.66		
15	1	74		17.54	17.83	17.75		
15	36	0		17.61	17.84	17.81		
15	36	20		17.60	17.81	17.79		
15	36	39		17.63	17.85	17.81		
15	75	0		17.62	17.85	17.83		
15	1	0	16-QAM	18.01	18.31	18.21	19.82	0.0959
15	1	37		17.96	18.30	18.15		
15	1	74		18.13	18.42	18.36		
15	36	0		17.64	17.86	17.85		
15	36	20		17.66	17.86	17.87		
15	36	39		17.66	17.84	17.85		
15	75	0		17.62	17.80	17.81		
15	1	0	64-QAM	17.42	17.69	17.62	19.32	0.0855
15	1	37		17.42	17.75	17.62		
15	1	74		17.53	17.77	17.69		
15	36	0		17.66	17.92	17.89		
15	36	20		17.65	17.91	17.87		
15	36	39		17.63	17.90	17.88		
15	75	0		17.64	17.89	17.49		
15	1	0	256-QAM	17.94	16.05	18.14	19.63	0.0918
15	1	37		17.90	17.77	18.10		
15	1	74		18.01	18.23	18.08		
15	36	0		17.62	17.87	17.82		
15	36	20		17.62	17.88	17.84		
15	36	39		17.60	17.87	17.85		
15	75	0		17.61	17.84	17.79		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 1.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
10	1	0	QPSK	17.47	17.71	17.59	19.21	0.0834
10	1	25		17.38	17.71	17.60		
10	1	49		17.45	17.74	17.68		
10	25	0		17.55	17.77	17.74		
10	25	12		17.60	17.81	17.76		
10	25	25		17.56	17.79	17.76		
10	50	0		17.58	17.80	17.75		
10	1	0	16-QAM	18.01	18.27	18.20	19.72	0.0938
10	1	25		17.97	18.31	18.18		
10	1	49		18.03	18.32	18.21		
10	25	0		17.58	17.78	17.74		
10	25	12		17.67	17.90	17.84		
10	25	25		17.62	17.88	17.81		
10	50	0		17.62	17.87	17.82		
10	1	0	64-QAM	17.55	17.77	17.72	19.40	0.0871
10	1	25		17.59	18.00	17.79		
10	1	49		17.59	17.83	17.84		
10	25	0		17.69	17.90	17.87		
10	25	12		17.72	17.96	17.92		
10	25	25		17.70	17.92	17.90		
10	50	0		17.68	17.91	17.90		
10	1	0	256-QAM	17.94	18.13	18.08	19.60	0.0912
10	1	25		17.90	18.15	18.03		
10	1	49		17.98	18.20	18.15		
10	25	0		17.63	17.85	17.78		
10	25	12		17.63	17.88	17.82		
10	25	25		17.62	17.89	17.83		
10	50	0		17.66	17.89	17.83		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.

Part 96 LTE Band 48 Maximum Average Power [dBm] (GT - LC = 1.4 dB)								
BW [MHz]	RB Size	RB Offset	Mod	Lowest	Middle	Highest	EIRP (dBm)	EIRP (W)
5	1	0	QPSK	17.46	17.79	17.69	19.28	0.0847
5	1	12		17.46	17.80	17.72		
5	1	24		17.51	17.79	17.76		
5	12	0		17.60	17.88	17.72		
5	12	7		17.58	17.86	17.71		
5	12	13		17.57	17.86	17.80		
5	25	0		17.52	17.79	17.74		
5	1	0	16-QAM	18.02	18.39	18.22	19.79	0.0953
5	1	12		17.99	18.34	18.21		
5	1	24		18.10	18.37	18.34		
5	12	0		17.48	17.88	17.73		
5	12	7		17.53	17.82	17.73		
5	12	13		17.55	17.86	17.74		
5	25	0		17.59	17.87	17.79		
5	1	0	64-QAM	17.59	17.88	17.79	19.38	0.0867
5	1	12		17.49	17.84	17.71		
5	1	24		17.56	17.90	17.81		
5	12	0		17.64	17.98	17.83		
5	12	7		17.64	17.94	17.79		
5	12	13		17.66	17.87	17.79		
5	25	0		17.64	17.93	17.83		
5	1	0	256-QAM	17.90	18.25	18.07	19.65	0.0923
5	1	12		17.79	18.13	17.98		
5	1	24		17.88	18.22	18.07		
5	12	0		17.60	17.97	17.79		
5	12	7		17.64	17.93	17.82		
5	12	13		17.67	17.90	17.78		
5	25	0		17.59	17.87	17.79		
Limit	EIRP < 23dBm/10MHz			Result			Pass	

Total EIRP power is less than partial EIRP limit 23 dBm/10MHz.



Appendix B. Radiated Spurious Emission Test Data

B1. Summary of each worse mode

Mode	Band	Part	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	AmplCbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	LTE B48	Part 96	M	14464	-51.24	RMS	39.33	-22.40	0.53	-95.23	26.53	-40.00	-11.24	H	0

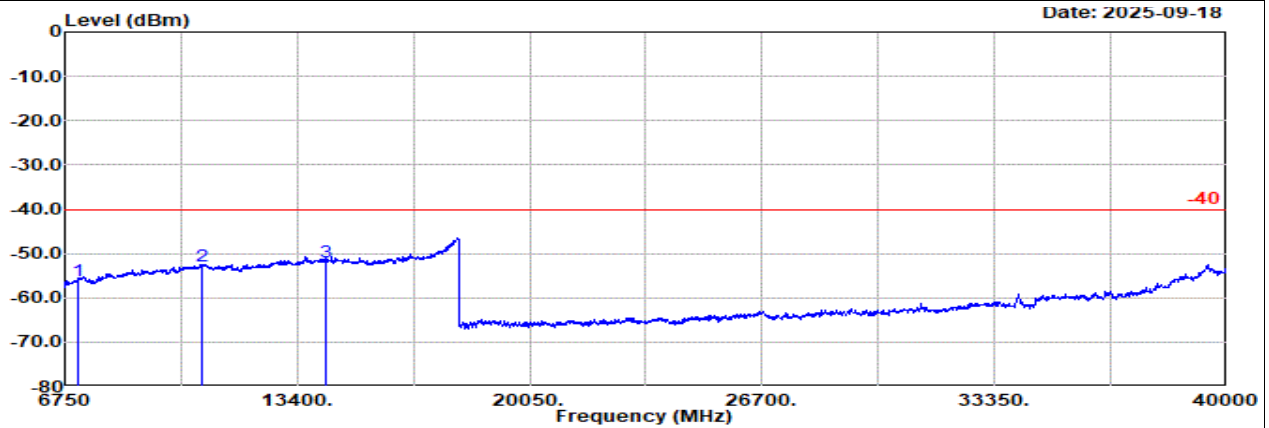


Ant. 0

Part 96 Mode 1

LTE B48 20M Ch55340 1RB0 QPSK

L

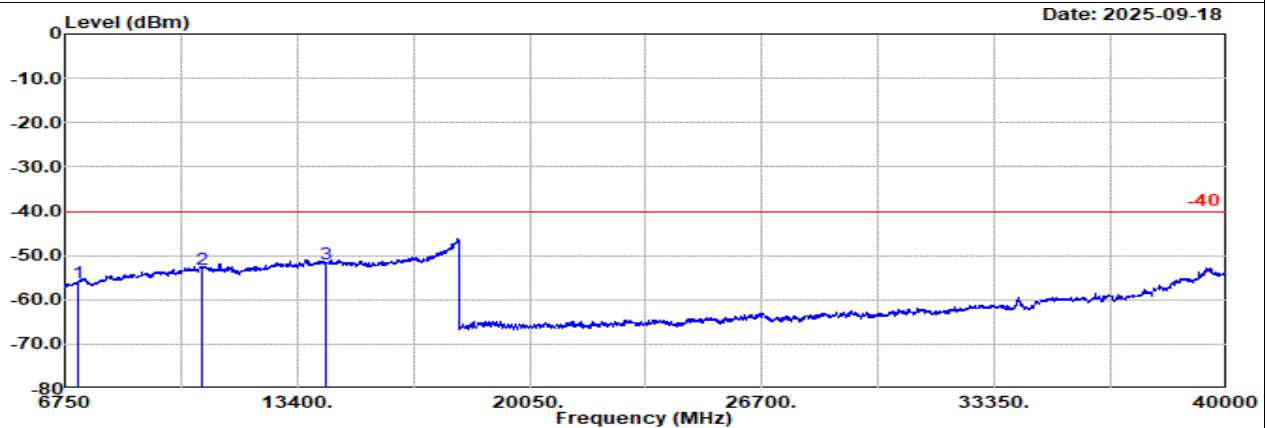


Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

: LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	1						
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-56.10	RMS	36.32	-23.18	1.01	-95.23	24.98	-40.00	-16.10	Horizontal
2	10653.00	-52.97	RMS	39.10	-22.91	0.68	-95.23	25.39	-40.00	-12.97	Horizontal
3	14204.00	-51.98	RMS	39.20	-22.18	0.54	-95.23	25.69	-40.00	-11.98	Horizontal



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

: LTE Band 48 20M Ch55340 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
				Factor	1						
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7102.00	-56.07	RMS	36.32	-23.18	1.01	-95.23	25.01	-40.00	-16.07	Vertical
2	10653.00	-53.02	RMS	39.10	-22.91	0.68	-95.23	25.34	-40.00	-13.02	Vertical
3	14204.00	-51.85	RMS	39.20	-22.18	0.54	-95.23	25.82	-40.00	-11.85	Vertical

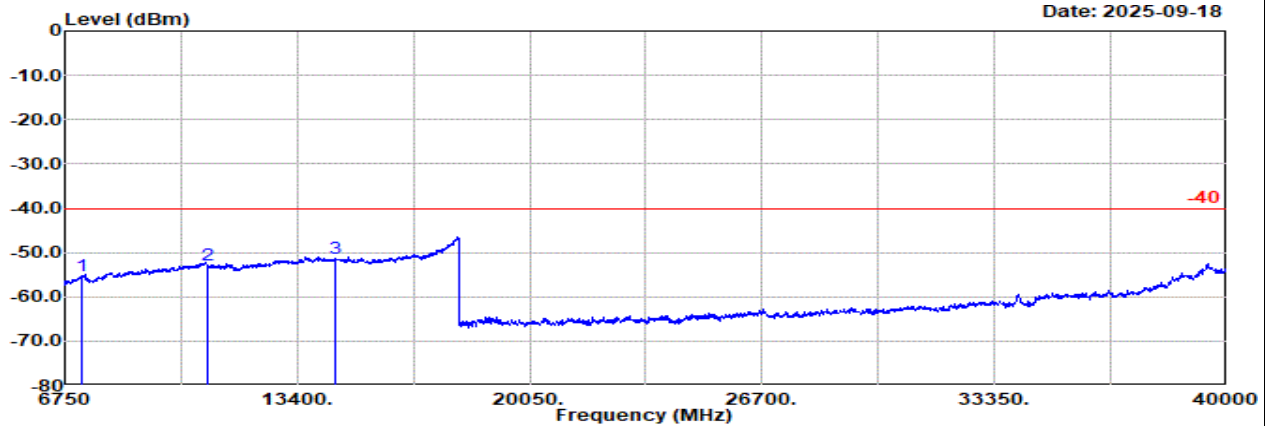


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Part 96 Mode 1

LTE B48 20M Ch55990 1RB0 QPSK

M

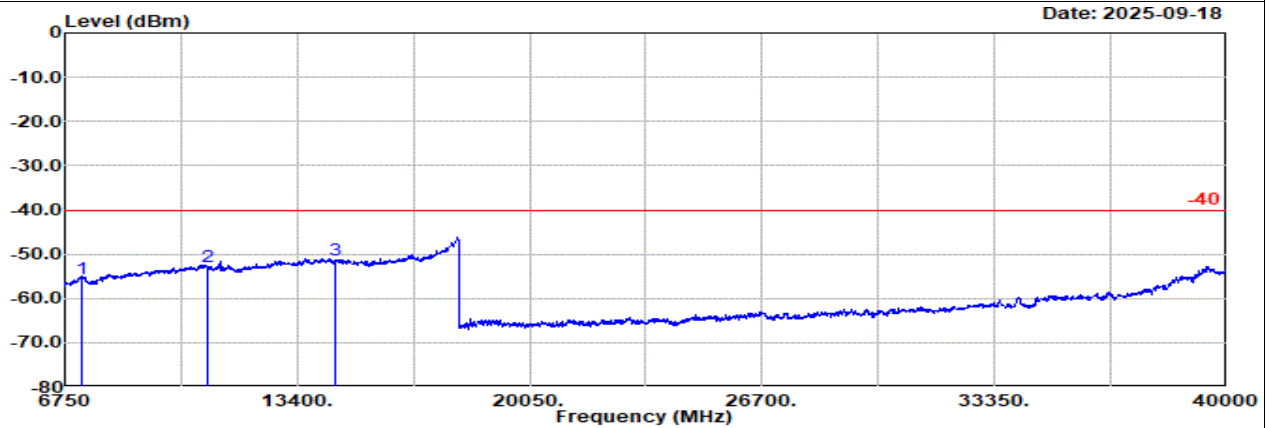


Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-55.32	RMS	36.90	-23.13	0.93	-95.23	25.21	-40.00	-15.32	Horizontal	
2	10848.00	-52.78	RMS	39.11	-22.94	0.66	-95.23	25.62	-40.00	-12.78	Horizontal	
3	14464.00	-51.24	RMS	39.33	-22.40	0.53	-95.23	26.53	-40.00	-11.24	Horizontal	



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

: LTE Band 48 20M Ch55990 1RB0 QPSK

	Freq Level		Detector	Ant Factor	Amp\Cb Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7232.00	-55.44	RMS	36.90	-23.13	0.93	-95.23	25.09	-40.00	-15.44	Vertical	
2	10848.00	-52.95	RMS	39.11	-22.94	0.66	-95.23	25.45	-40.00	-12.95	Vertical	
3	14464.00	-51.37	RMS	39.33	-22.40	0.53	-95.23	26.40	-40.00	-11.37	Vertical	

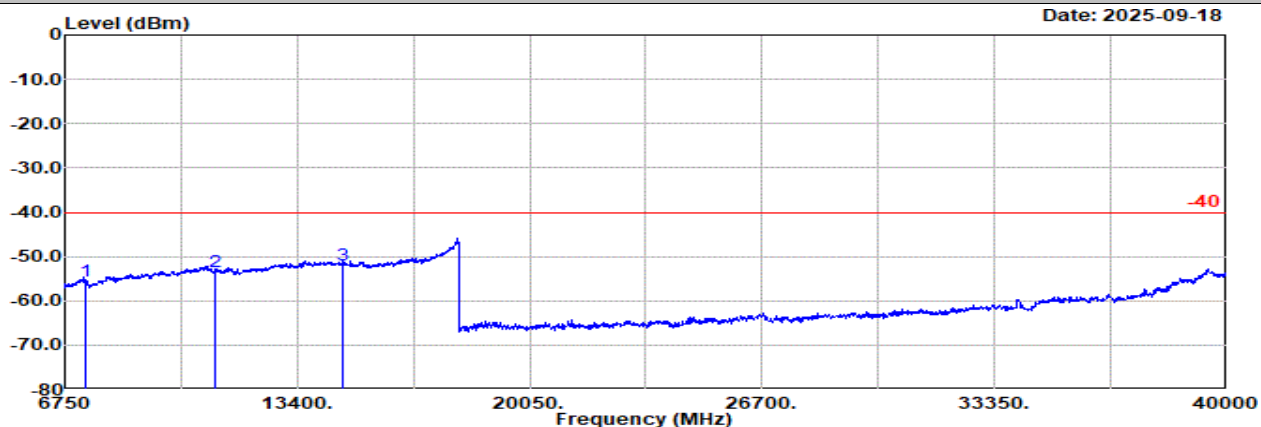


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Part 96 Mode 1

LTE B48 20M Ch56640 1RB0 QPSK

H

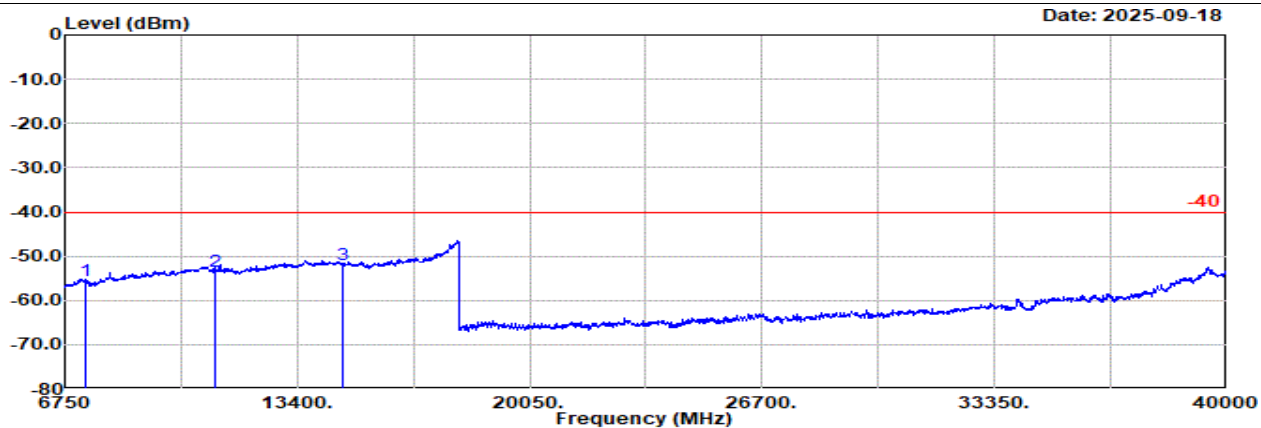


Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Horizontal

: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7362.00	-55.65	RMS	36.53	-23.08	0.87	-95.23	25.26	-40.00	-15.65	Horizontal
2	11043.00	-53.42	RMS	38.80	-22.97	0.63	-95.23	25.35	-40.00	-13.42	Horizontal
3	14724.00	-51.84	RMS	39.80	-22.53	0.52	-95.23	25.60	-40.00	-11.84	Horizontal



Site : 03CH20-HY

Condition: -40 1m BBHA9170_1223_250702 Vertical

: LTE Band 48 20M Ch56640 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	7362.00	-55.65	RMS	36.53	-23.08	0.87	-95.23	25.26	-40.00	-15.65	Vertical
2	11043.00	-53.33	RMS	38.80	-22.97	0.63	-95.23	25.44	-40.00	-13.33	Vertical
3	14724.00	-51.84	RMS	39.80	-22.53	0.52	-95.23	25.60	-40.00	-11.84	Vertical

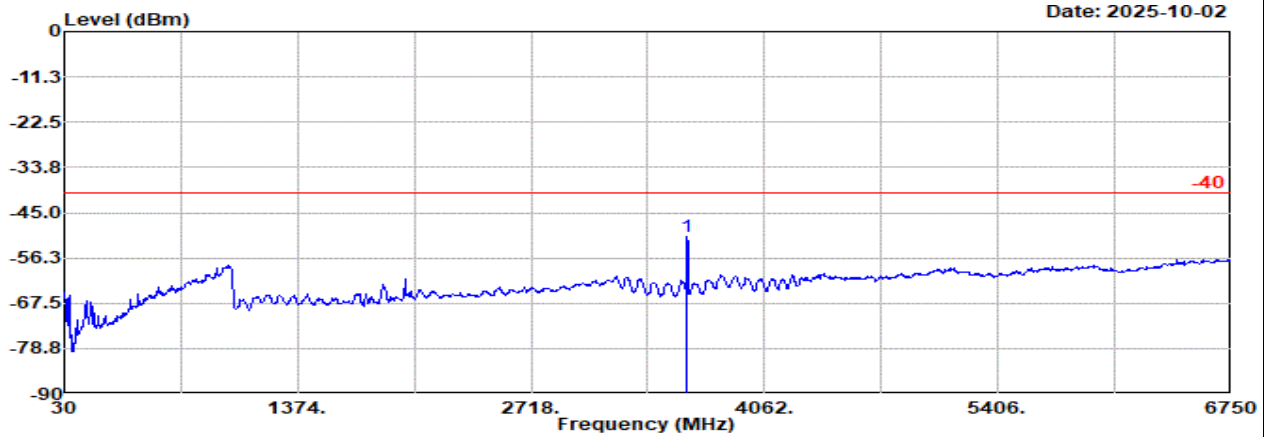


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Part 96 Mode 1

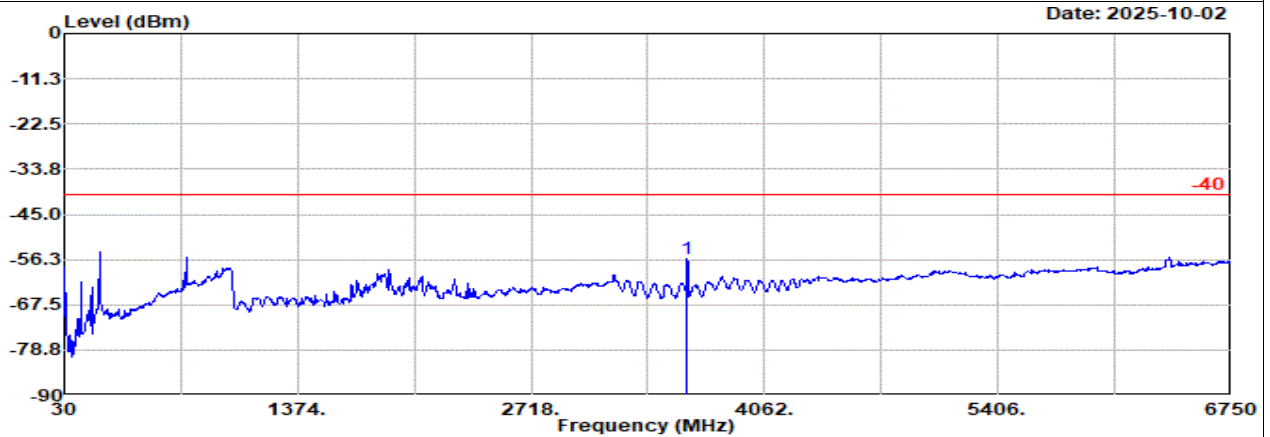
LTE B48 20M Ch55990 1RB0 QPSK

M



Site : 03CH20-HY
Condition: -40 3m HF_9120D_02360_241101 Horizontal
: LTE Band 48 20M Ch55990 1RB0 QPSK
: #1 is fundamental signals can be ignored

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin	Pol
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3616.25	-50.85	RMS	29.60	-25.64	0.00	-95.23	40.42	-40.00	-10.85 Horizontal



Site : 03CH20-HY
Condition: -40 3m HF_9120D_02360_241101 Vertical
: LTE Band 48 20M Ch55990 1RB0 QPSK
: #1 is fundamental signals can be ignored

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin	Pol
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB
1	3616.25	-56.09	RMS	29.60	-25.64	0.00	-95.23	35.18	-40.00	-16.09 Vertical