



FCC RADIO TEST REPORT

FCC ID : 2AVDZEM91
Equipment : Wirelss Module
Brand Name : LiveU, Inc.
Model Name : EM9191
Applicant : LiveU, Inc
2 University Plaza Drive Suite 505, Hackensack, New Jersey
Manufacturer : LiveU Ltd.
5 Hagavish St, Kfar Saba 4442211, Israel
Standard : FCC 47 CFR Part 2, 27, Part 90(R), Part 90(S)

The product was received on Feb. 13, 2023 and testing was performed from Oct. 10, 2024 to Dec. 22, 2024. We, Sporton International Inc. Wensan Laboratory, would like to declare that the tested sample has been evaluated in accordance with the test procedures 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. Wensan Laboratory, the test report shall not be reproduced except in full.

Louis Wu

Approved by: Louis Wu

Sporton International Inc. Wensan Laboratory

No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.)



Table of Contents

History of this test report.....	3
Summary of Test Result.....	4
1 General Description	6
1.1 Product Feature of Equipment Under Test.....	6
1.2 Modification of EUT	6
1.3 Testing Location	6
1.4 Applicable Standards.....	7
2 Test Configuration of Equipment Under Test	8
2.1 Test Mode.....	8
2.2 Connection Diagram of Test System.....	9
2.3 Support Unit used in test configuration and system	9
2.4 Frequency List of Low/Middle/High Channels	10
3 Radiated Test Items	11
3.1 Measuring Instruments	11
3.2 Radiated Spurious Emission Measurement	13
4 List of Measuring Equipment.....	15
5 Measurement Uncertainty	16
Appendix A. Test Results of Conducted Test	
Appendix B. Test Results of Radiated Test	
Appendix C. Test Setup Photographs	



History of this test report

Report No.	Version	Description	Issue Date
FG261812A	01	Initial issue of report	Aug. 20, 2025
FG261812A	02	Revise Product Feature of Equipment Under Test and Appendix A This report is an updated version, replacing the report issued on Aug. 20, 2025.	Oct. 09, 2025
FG261812A	03	Revise Product Feature of Equipment Under Test and Appendix A This report is an updated version, replacing the report issued on Oct. 09, 2025.	Oct. 23, 2025



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	§2.1046	Conducted Output Power	Pass	See Note
	§22.913 (a)(5) §90.635	Effective Radiated Power (Band 26)	Pass	
	§27.50 (b)(10)	Effective Radiated Power (Band 13)		
	§90.542 (a)(7)	Effective Radiated Power (Band 14)		
-	-	Peak-to-Average Ratio	Pass	See Note
-	§2.1049	Occupied Bandwidth	Pass	See Note
-	§2.1051 §22.917 (a) §27.53 (c)(2)(4)	Conducted Band Edge Measurement (Band 13) (Band 26)	Pass	See Note
	§2.1051 §90.543 (e)(2)	Conducted Band Edge Measuremen (Band 14)		
-	§2.1051 §90.210 (n)	Emission Mask (Band 14)	Pass	See Note
	§2.1051 §90.691	Emission masks (Band 26)		



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
-	§2.1051 §22.917 (a) §27.53 (c)(2) §90.691	Conducted Spurious Emission (Band 13) (Band 26)	Pass	See Note
	§2.1051 §90.543 (e)(3)	Conducted Spurious Emission (Band 14)		
-	§2.1055 §22.355 §27.54 §90.539 (e) §90.213	Frequency Stability Temperature & Voltage	Pass	See Note
3.2	§2.1053 §22.917 (a) §27.53 (c)(2) §27.53 (f) §90.691	Radiated Spurious Emission (Band 13) (Band 26)	Pass	-
	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission (Band 14)		

Note:

- For host device, Field Strength of Spurious Radiation, Effective Radiated Power and Equivalent Isotropic Radiated Power are verified and complies with the limit in this test report.
- For host device, the Conducted Output Power is no difference after compared to module (Model: EM9191)

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: Sheng Kuo**Report Producer: Michelle Chen**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	WCDMA/LTE/5G NR and GNSS.
Antenna Type	<LTE Module EM9191> <Ant. 2> Monopole PCB Printed Antenna
Antenna Gain	<Ant.2 > LTE Band 13: 1.89 dBi LTE Band 14: 2.26 dBi LTE Band 26: 2.41 dBi
Integrated the Host	Equipment Name: Live Video Transmission System Brand Name: LiveU, Inc. Model Name: LU300S

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

1.2 Modification of EUT

No modifications made to the EUT during the testing.

1.3 Testing Location

Test Site	Sporton International Inc. Wensan Laboratory
Test Site Location	No.58, Aly. 75, Ln. 564, Wenhua 3rd, Rd., Guishan Dist., Taoyuan City 333010, Taiwan (R.O.C.) TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH12-HY
Test Engineer	Jack Cheng, Tim Lee and Wilson Wu
Temperature (°C)	20~25
Relative Humidity (%)	50~60

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

FCC Designation No.: TW3786



1.4 Applicable Standards

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

- ♦ ANSI C63.26-2015
- ♦ FCC 47 CFR Part 2, 27, Part 90(R), Part 90(S)
- ♦ FCC KDB 971168 D01 Power Meas. License Digital Systems v03r01
- ♦ FCC KDB 412172 D01 Determining ERP and EIRP v01r01
- ♦ 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

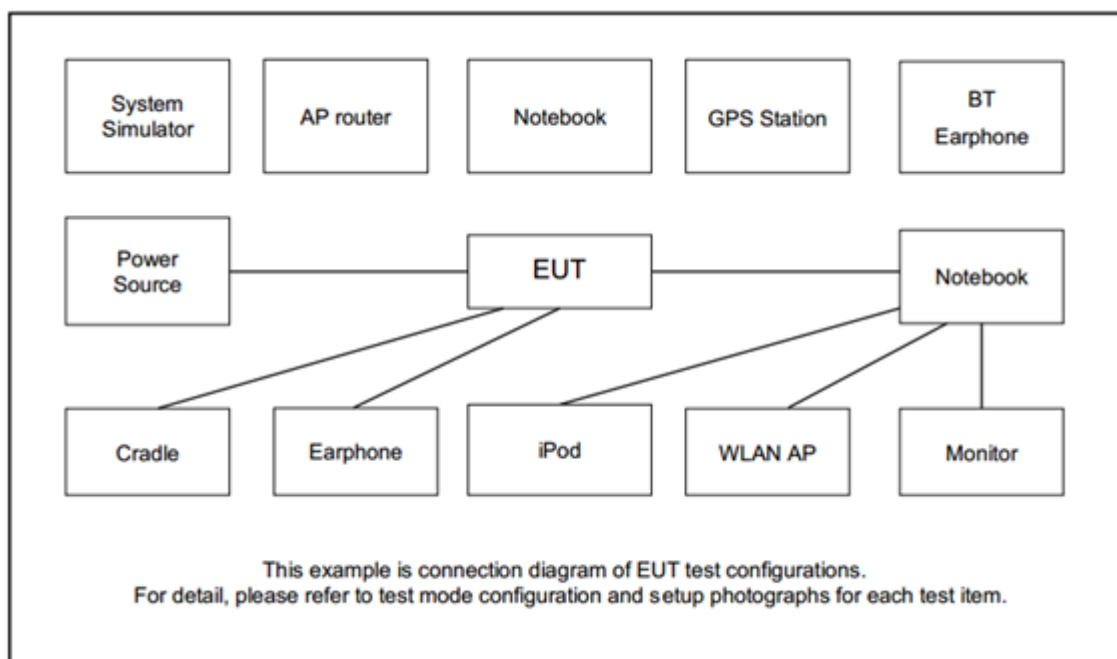
Antenna port conducted and radiated test items listed below are performed according to KDB 971168 D01 Power Meas. License Digital Systems v03r01 with maximum output power.

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 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
RSE	A	15 MHz or less	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. 3. During the RSE preliminary test, the standalone mode and charging modes were verified. It is determined that the charging modes is the worst case for the official test.				

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.	System Simulator	Anritsu	MT8821C	N/A	N/A	Unshielded, 1.8 m



2.4 Frequency List of Low/Middle/High Channels

LTE Band 13 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23230	-
	Frequency	-	782	-
5	Channel	23205	23230	23255
	Frequency	779.5	782	784.5

LTE Band 14 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	23330	-
	Frequency	-	793	-
5	Channel	23305	23330	23355
	Frequency	790.5	793	795.5

LTE Band 26 Channel and Frequency List (Part90 S)				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	-	26740	-
	Frequency	-	819	-
5	Channel	26715	26740	26765
	Frequency	816.5	819	821.5

LTE Band 26 Channel and Frequency List (Part90 S)				
BW [MHz]	Channel/Frequency(MHz)	cross-rule channels		
15	Channel	26765	26790	-
	Frequency	821.5	824	-
10	Channel	-	26790	-
	Frequency	-	824	-
5	Channel	-	26790	-
	Frequency	-	824	-

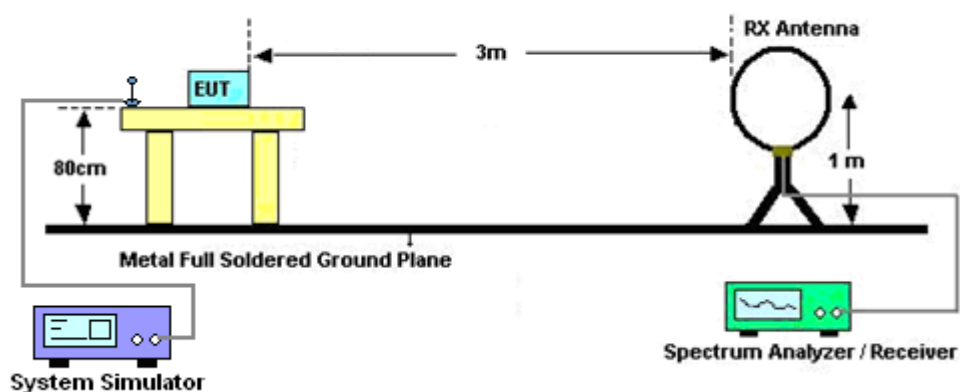
3 Radiated Test Items

3.1 Measuring Instruments

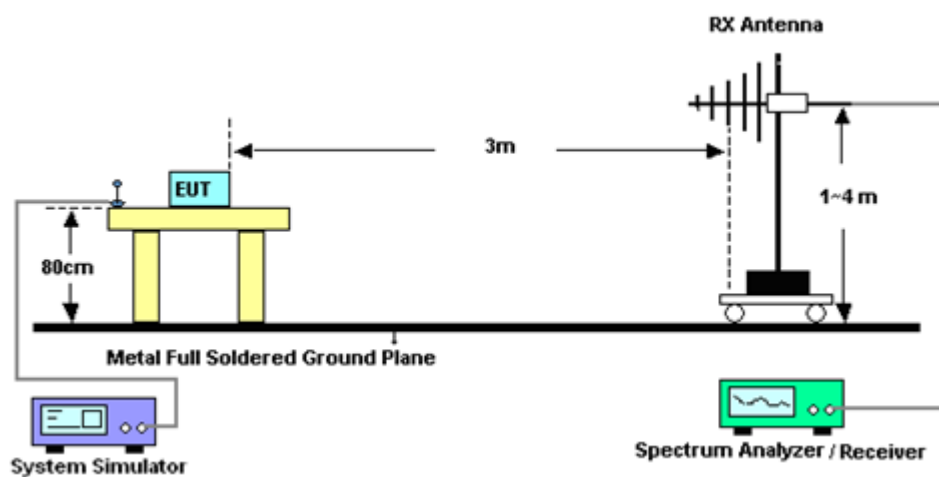
See list of measuring instruments of this test report.

3.1.1 Test Setup

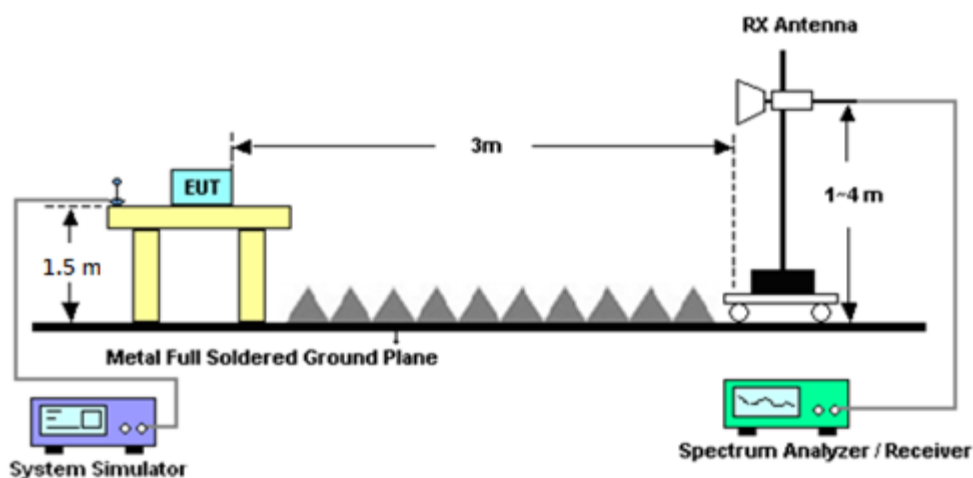
For radiated test below 30MHz



For radiated test from 30MHz to 1GHz



For radiated test above 1GHz



3.1.2 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.



3.2 Radiated Spurious Emission Measurement

3.2.1 Description of Radiated Spurious Emission Measurement

The radiated spurious emission was measured by substitution method according to ANSI C63.26-2015. 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 $43 + 10 \log (P)$ dB.

For LTE Band 13

For operations in the 746-758 MHz, 775-788 MHz, and 805-806 MHz bands, emissions in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth.

For LTE Band 14

For operations in the 758-775 MHz and 788-805 MHz bands, all emissions including harmonics in the band 1559-1610 MHz shall be limited to -70 dBW/MHz equivalent isotropically radiated power (EIRP) for wideband signals, and -80 dBW EIRP for discrete emissions of less than 700 Hz bandwidth. For the purpose of equipment authorization, a transmitter shall be tested with an antenna that is representative of the type that will be used with the equipment in normal operation.

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



3.2.2 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, which was 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 one meter and four meters to search the maximum spurious emission for both horizontal and vertical polarizations.
5. Make the measurement with the spectrum analyzer's RBW = 1MHz, VBW = 3MHz, taking the record of maximum spurious emission.
6. 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
7.
$$\text{Field Strength Level (dBm)} = \text{Spectrum Reading (dBm)} + \text{Antenna Factor} + \text{Cable Loss} + \text{Read Level} - \text{Preamp Factor}.$$
8.
$$\text{ERP (dBm)} = \text{EIRP (dBm)} - 2.15$$
9. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



4 List of Measuring Equipment

Instrument	Brand Name	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
Loop Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Feb. 23, 2024	Oct. 10, 2024~ Dec. 22, 2024	Feb. 22, 2025	Radiation (03CH12-HY)
Bilog Antenna	TESEQ	CBL 6111D & 00800N1D01N -06	40103 & 07	30MHz~1GHz	Apr. 12, 2024	Oct. 10, 2024~ Dec. 22, 2024	Apr. 11, 2025	Radiation (03CH12-HY)
Horn Antenna	SCHWARZBE CK	BBHA 9120 D	9120D-02114	1GHz~18GHz	Jul. 11, 2024	Oct. 10, 2024~ Dec. 22, 2024	Jul. 10, 2025	Radiation (03CH12-HY)
SHF-EHF Horn Antenna	SCHWARZBE CK	BBHA9170	1224	18GHz~40GHz	Jun. 24, 2024	Oct. 10, 2024~ Dec. 22, 2024	Jun. 23, 2025	Radiation (03CH12-HY)
Preamplifier	COM-POWER	PA-103	161075	10MHz~1GHz	Mar. 20, 2024	Oct. 10, 2024~ Dec. 22, 2024	Mar. 19, 2025	Radiation (03CH12-HY)
Amplifier	E- INSTRUMENT TECH LTD.	ERA-10M- 7000-MR	EC1900245	10MHz~7GHz	Jan. 09, 2024	Oct. 10, 2024~ Dec. 22, 2024	Jan. 08, 2025	Radiation (03CH12-HY)
Preamplifier	E- INSTRUMENT TECH LTD.	ERA-100M- 18G-56-01- A70	EC1900249	1GHz~18GHz	Dec. 20, 2023	Oct. 10, 2024~ Dec. 18, 2024	Dec. 19, 2024	Radiation (03CH12-HY)
Preamplifier	E- INSTRUMENT TECH LTD.	ERA-100M- 18G-56-01- A70	EC1900269	1GHz~18GHz	Dec. 19, 2024	Dec. 19, 2024~ Dec. 22, 2024	Dec. 18, 2025	Radiation (03CH12-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Sep. 02, 2024	Oct. 10, 2024~ Dec. 22, 2024	Sep. 01, 2025	Radiation (03CH12-HY)
Spectrum Analyzer	Agilent	N9010A	MY53470118	10Hz~44GHz	Aug. 09, 2024	Oct. 10, 2024~ Dec. 22, 2024	Aug. 08, 2025	Radiation (03CH12-HY)
EMI Test Receiver	Agilent	N9038A(MXE)	MY53290053	20Hz~26.5GHz	Sep. 09, 2024	Oct. 10, 2024~ Dec. 22, 2024	Sep. 08, 2025	Radiation (03CH12-HY)
Filter	Wainwright	WLKS1200- 12SS	SN2	1.2GHz Low Pass Filter	Mar. 13, 2024	Oct. 10, 2024~ Dec. 22, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12-900- 1000-15000- 60SS	SN11	1GHz High Pass Filter	Mar. 13, 2024	Oct. 10, 2024~ Dec. 22, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
Filter	Wainwright	WHKX12- 2700-3000- 18000-60SS	SN2	3GHz High Pass Filter	Mar. 13, 2024	Oct. 10, 2024~ Dec. 22, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
Filter	Wainwright	WHKX8- 5872.5-6750- 18000-40ST	SN2	6.75GHz High Pass Filter	Mar. 13, 2024	Oct. 10, 2024~ Dec. 22, 2024	Mar. 12, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/2	9kHz~30MHz	Mar. 06, 2024	Oct. 10, 2024~ Dec. 22, 2024	Mar. 05, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 18, 2023	Oct. 10, 2024~ Dec. 16, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 126E	0058/126E	30MHz~18GHz	Dec. 17, 2024	Dec. 17, 2024~ Dec. 22, 2024	Dec. 16, 2025	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 18, 2023	Oct. 10, 2024~ Dec. 16, 2024	Dec. 17, 2024	Radiation (03CH12-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	505134/2	30MHz~40GHz	Dec. 17, 2024	Dec. 17, 2024~ Dec. 22, 2024	Dec. 16, 2025	Radiation (03CH12-HY)
Hygrometer	TECPEL	DTM-303B	TP210117	N/A	Oct. 08, 2024	Oct. 10, 2024~ Dec. 22, 2024	Oct. 07, 2025	Radiation (03CH12-HY)
Controller	EMEC	EM1000	N/A	Control Turn table & Ant Mast	N/A	Oct. 10, 2024~ Dec. 22, 2024	N/A	Radiation (03CH12-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1m~4m	N/A	Oct. 10, 2024~ Dec. 22, 2024	N/A	Radiation (03CH12-HY)
Radio Communication Analyze	Anritsu	MT8821C	6262116730	LTE	Jun. 28, 2024	Oct. 10, 2024~ Dec. 22, 2024	Jun. 27, 2025	Radiation (03CH12-HY)
Turn Table	EMEC	TT2000	N/A	0~360 Degree	N/A	Oct. 10, 2024~ Dec. 22, 2024	N/A	Radiation (03CH12-HY)
Software	Audix	E3 6.2009-8- 24	RK-000989	N/A	N/A	Oct. 10, 2024~ Dec. 22, 2024	N/A	Radiation (03CH12-HY)



5 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	6.3 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 6 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	4.7 dB
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Uncertainty of Radiated Emission Measurement (6 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2U_c(y)$)	5.0 dB
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Appendix A. Test Results of Radiated Test

A1. Summary of each worse mode

Mode	Part	Band	Ch	Freq (MHz)	Level (dBm)	Det	Ant Factor (dB)	Amp/Cbl (dB)	Filter (dB)	EIRPCF (dB)	Reading (dBuV)	Limit (dBm)	Margin (dB)	Pol	Ant
1	Part 27F	LTE B13	H	1564	-59.26	RMS	25.40	-27.45	0.84	-95.23	37.18	-42.15	-17.11	V	2
2	Part 27F	LTE B13	M	3110	-54.85	RMS	29.82	-25.33	0.39	-95.23	35.50	-13.00	-41.85	H	2
4	Part 90R	LTE B14	L	1576	-59.88	RMS	25.46	-27.41	0.82	-95.23	36.48	-42.15	-17.73	V	2
5	Part 90R	LTE B14	M	1577	-60.04	RMS	25.46	-27.41	0.82	-95.23	36.32	-42.15	-17.89	V	2
7	Part 90S	LTE B26	M	1633	-41.92	RMS	25.47	-27.26	0.76	-95.23	54.34	-13.00	-28.92	V	2
8	Part 90S	LTE B26	M	1629	-41.84	RMS	25.51	-27.27	0.76	-95.23	54.39	-13.00	-28.84	V	2
9	Part 90S	LTE B26	M	1635	-41.48	RMS	25.45	-27.26	0.76	-95.23	54.80	-13.00	-28.48	V	2

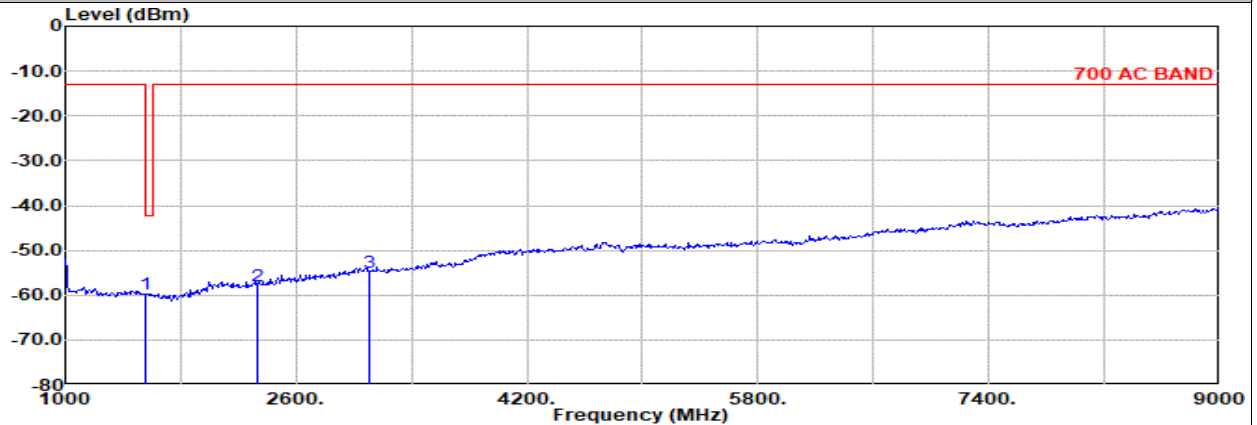


Antenna 2

Part 27F Mode 1

LTE B13 5M Ch23205 1RB0 QPSK

L

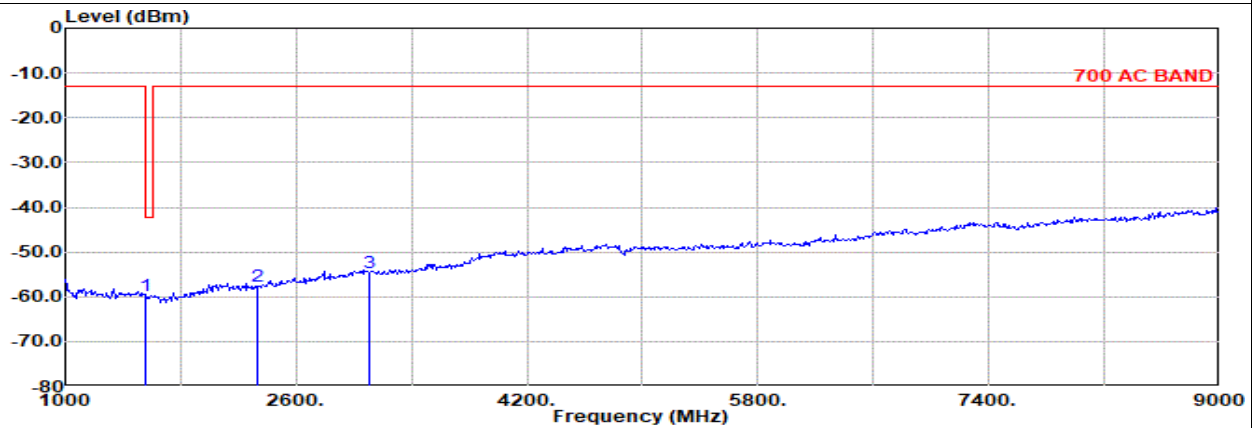


Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Horizontal

: LTE Band 13 5M Ch23205 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
					dB/m	dB						
1	1554.00	-59.90	RMS	25.52	-27.48	0.86	-95.23	36.43	-13.00	-46.90	Horizontal	
2	2332.00	-57.91	RMS	27.22	-26.44	0.58	-95.23	35.96	-13.00	-44.91	Horizontal	
3	3109.00	-54.93	RMS	29.82	-25.33	0.39	-95.23	35.42	-13.00	-41.93	Horizontal	



Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Vertical

: LTE Band 13 5M Ch23205 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
					dB/m	dB						
1	1554.00	-59.78	RMS	25.52	-27.48	0.86	-95.23	36.55	-13.00	-46.78	Vertical	
2	2332.00	-57.57	RMS	27.22	-26.44	0.58	-95.23	36.30	-13.00	-44.57	Vertical	
3	3109.00	-54.57	RMS	29.82	-25.33	0.39	-95.23	35.78	-13.00	-41.57	Vertical	

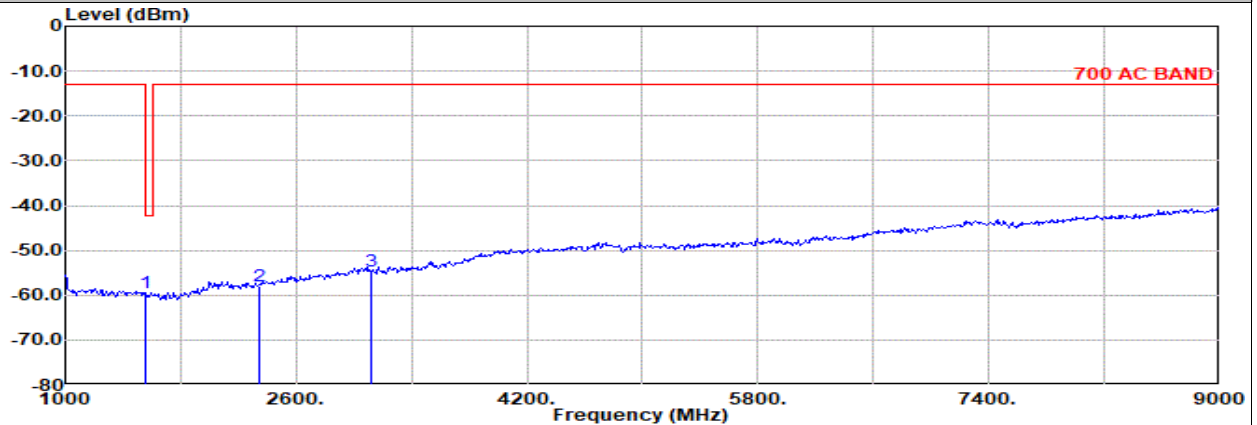


Antenna 2

Part 27F Mode 1

LTE B13 5M Ch23230 1RB0 QPSK

M

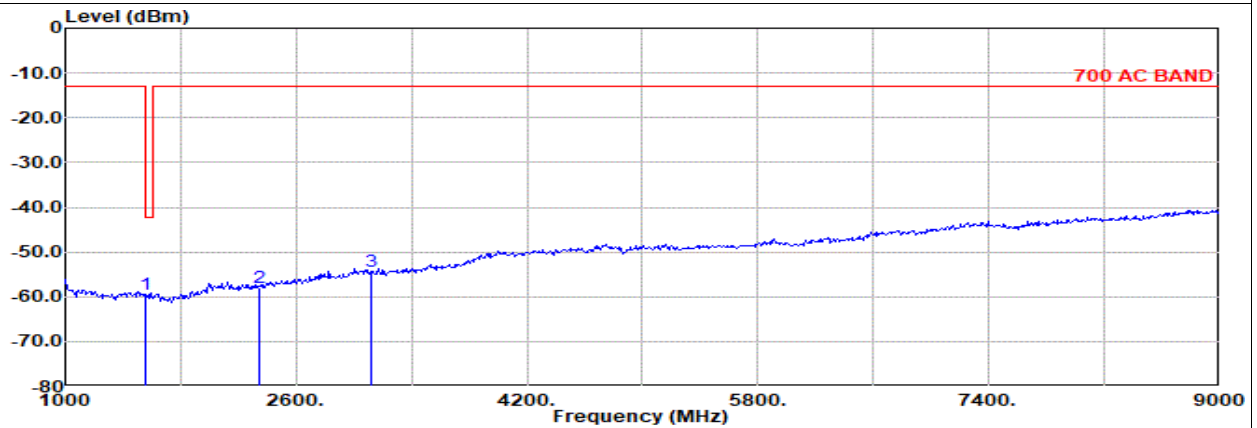


Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Horizontal

: LTE Band 13 5M Ch23230 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	1559.00	-59.43	RMS	25.42	-27.47	0.85	-95.23	37.00	-42.15	-17.28	Horizontal	
2	2339.00	-58.00	RMS	27.29	-26.44	0.58	-95.23	35.80	-13.00	-45.00	Horizontal	
3	3119.00	-54.63	RMS	29.84	-25.33	0.39	-95.23	35.70	-13.00	-41.63	Horizontal	



Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Vertical

: LTE Band 13 5M Ch23230 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	1559.00	-59.59	RMS	25.42	-27.47	0.85	-95.23	36.84	-42.15	-17.44	Vertical	
2	2339.00	-57.93	RMS	27.29	-26.44	0.58	-95.23	35.87	-13.00	-44.93	Vertical	
3	3119.00	-54.43	RMS	29.84	-25.33	0.39	-95.23	35.90	-13.00	-41.43	Vertical	

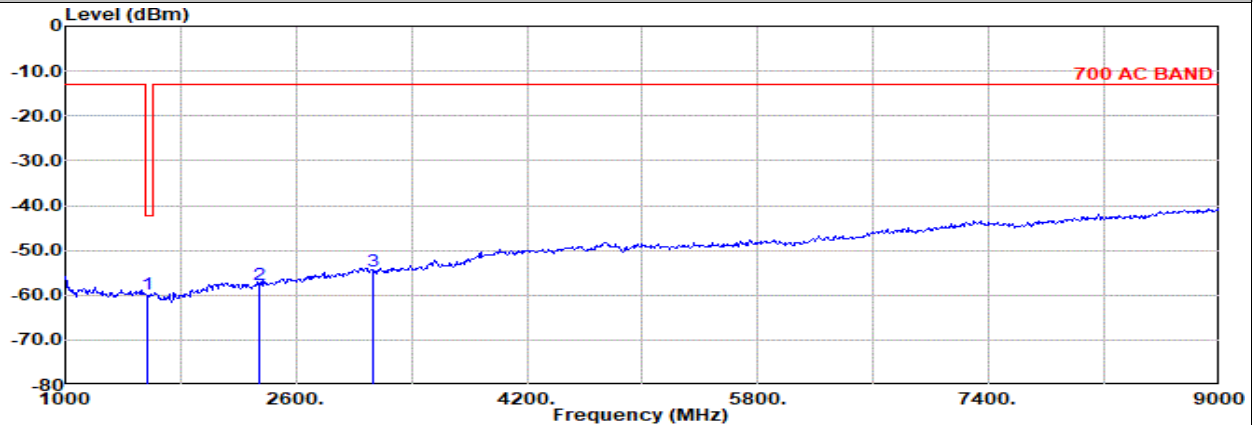


Antenna 2

Part 27F Mode 1

LTE B13 5M Ch23255 1RB0 QPSK

H

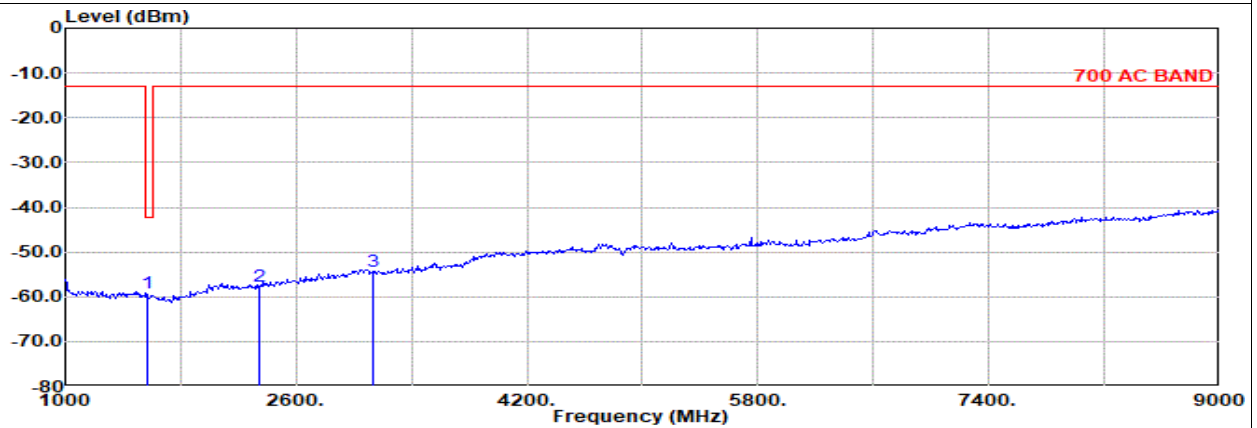


Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Horizontal

: LTE Band 13 5M Ch23255 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin		Pol
					dB/m	dB							
	MHz	dBm					dB	dB	dBuV	dBm	dB		
1	1564.00	-59.74	RMS	25.40	-27.45	0.84	-95.23	36.70	-42.15	-17.59	Horizontal		
2	2347.00	-57.75	RMS	27.30	-26.44	0.57	-95.23	36.05	-13.00	-44.75	Horizontal		
3	3129.00	-54.55	RMS	29.86	-25.32	0.39	-95.23	35.75	-13.00	-41.55	Horizontal		

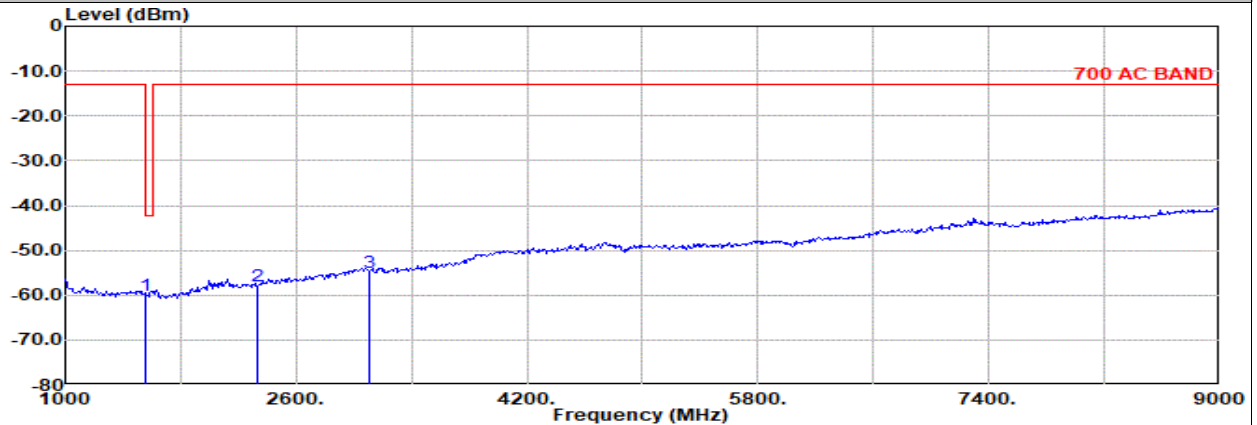


Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Vertical

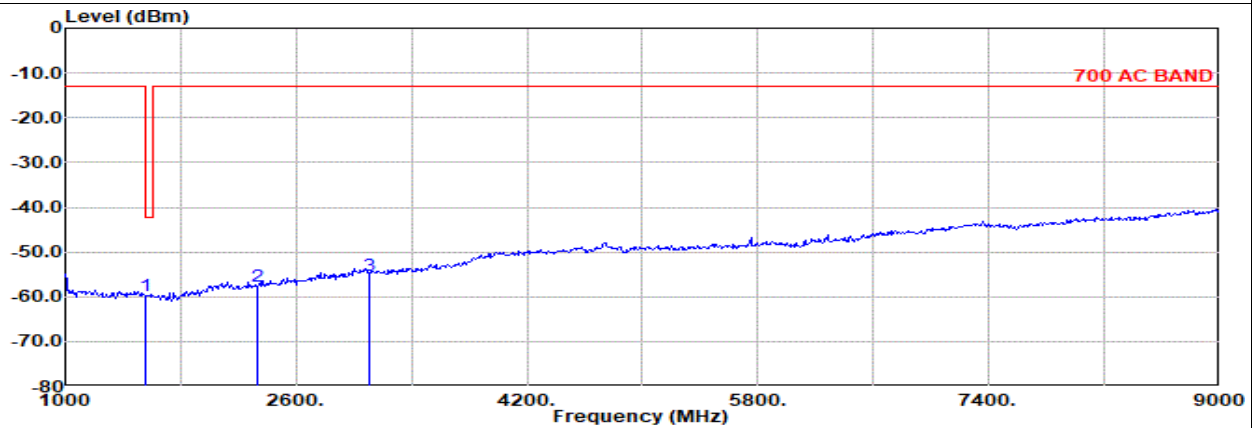
: LTE Band 13 5M Ch23255 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin		Pol
					dB/m	dB							
	MHz	dBm					dB	dB	dBuV	dBm	dB		
1	1564.00	-59.26	RMS	25.40	-27.45	0.84	-95.23	37.18	-42.15	-17.11	Vertical		
2	2347.00	-57.77	RMS	27.30	-26.44	0.57	-95.23	36.03	-13.00	-44.77	Vertical		
3	3129.00	-54.24	RMS	29.86	-25.32	0.39	-95.23	36.06	-13.00	-41.24	Vertical		

**Antenna 2****Part 27F Mode 2****LTE B13 10M Ch23230 1RB0 QPSK****M**

Site : 03CH12-HY
Condition: 700 AC BAND 3m 9120D-02114-240711 Horizontal
: LTE Band 13 10M Ch23230 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	1555.00	-59.96	RMS	25.50	-27.48	0.85	-95.23	36.40	-13.00	-46.96	Horizontal	
2	2332.00	-58.08	RMS	27.22	-26.44	0.58	-95.23	35.79	-13.00	-45.08	Horizontal	
3	3110.00	-54.85	RMS	29.82	-25.33	0.39	-95.23	35.50	-13.00	-41.85	Horizontal	



Site : 03CH12-HY
Condition: 700 AC BAND 3m 9120D-02114-240711 Vertical
: LTE Band 13 10M Ch23230 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	1555.00	-59.84	RMS	25.50	-27.48	0.85	-95.23	36.52	-13.00	-46.84	Vertical	
2	2332.00	-57.72	RMS	27.22	-26.44	0.58	-95.23	36.15	-13.00	-44.72	Vertical	
3	3110.00	-55.10	RMS	29.82	-25.33	0.39	-95.23	35.25	-13.00	-42.10	Vertical	

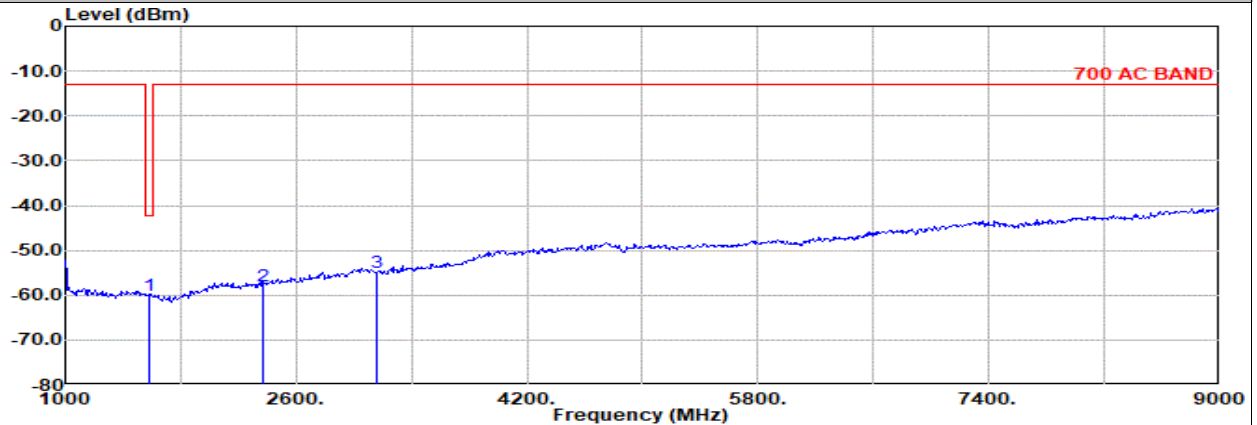


Antenna 2

Part 90R Mode 4

LTE B14 5M Ch23305 1RB0 QPSK

L

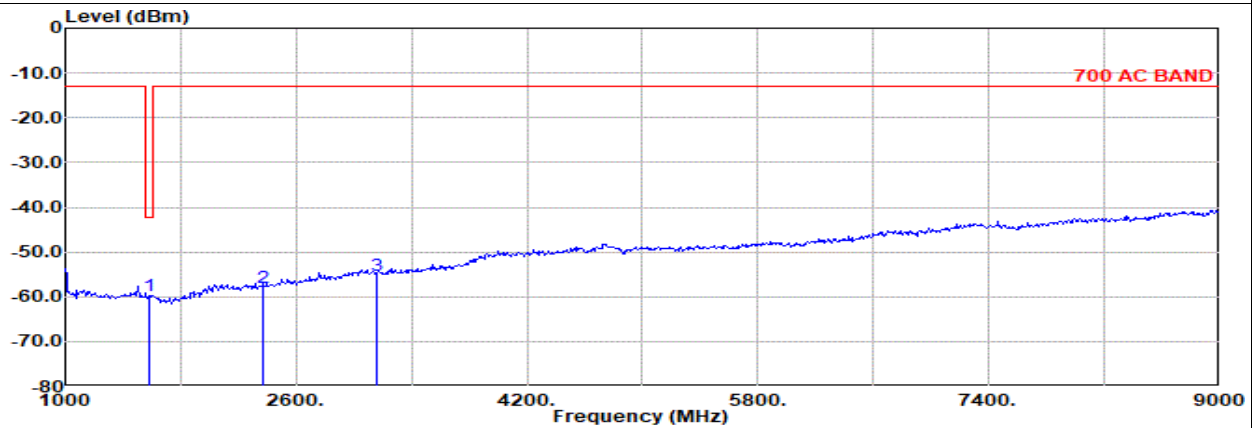


Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Horizontal

: LTE Band 14 5M Ch23305 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Reading	Limit	Margin	Pol
	MHz	dBm		dB/m	dB		dB	dBuV	dBm	dB	
1	1576.00	-60.01	RMS	25.46	-27.41	0.82	-95.23	36.35	-42.15	-17.86	Horizontal
2	2365.00	-57.98	RMS	27.40	-26.43	0.56	-95.23	35.72	-13.00	-44.98	Horizontal
3	3153.00	-55.06	RMS	29.89	-25.31	0.38	-95.23	35.21	-13.00	-42.06	Horizontal

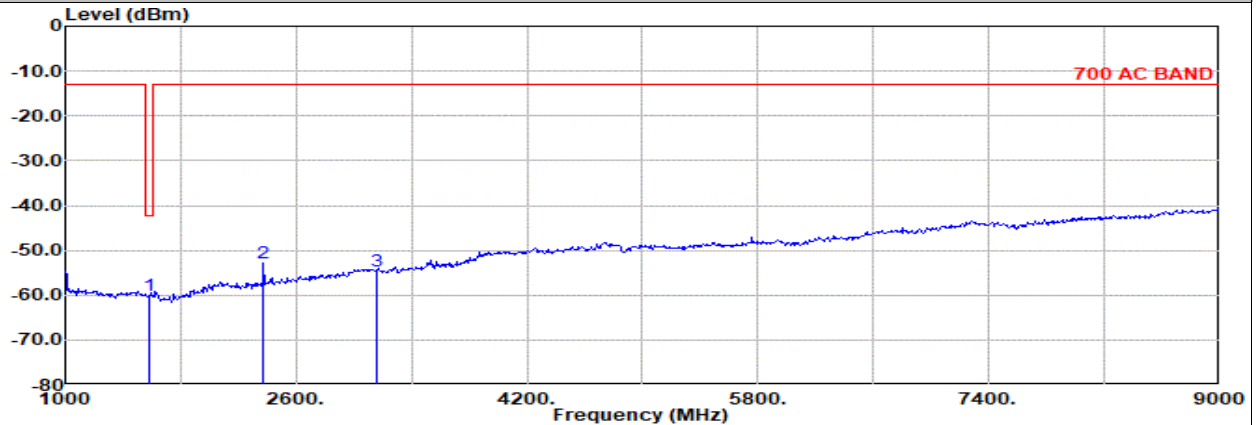


Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Vertical

: LTE Band 14 5M Ch23305 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb l	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm		dB/m	dB		dB	dBuV	dBm	dB	
1	1576.00	-59.88	RMS	25.46	-27.41	0.82	-95.23	36.48	-42.15	-17.73	Vertical
2	2365.00	-57.90	RMS	27.40	-26.43	0.56	-95.23	35.80	-13.00	-44.90	Vertical
3	3153.00	-55.25	RMS	29.89	-25.31	0.38	-95.23	35.02	-13.00	-42.25	Vertical

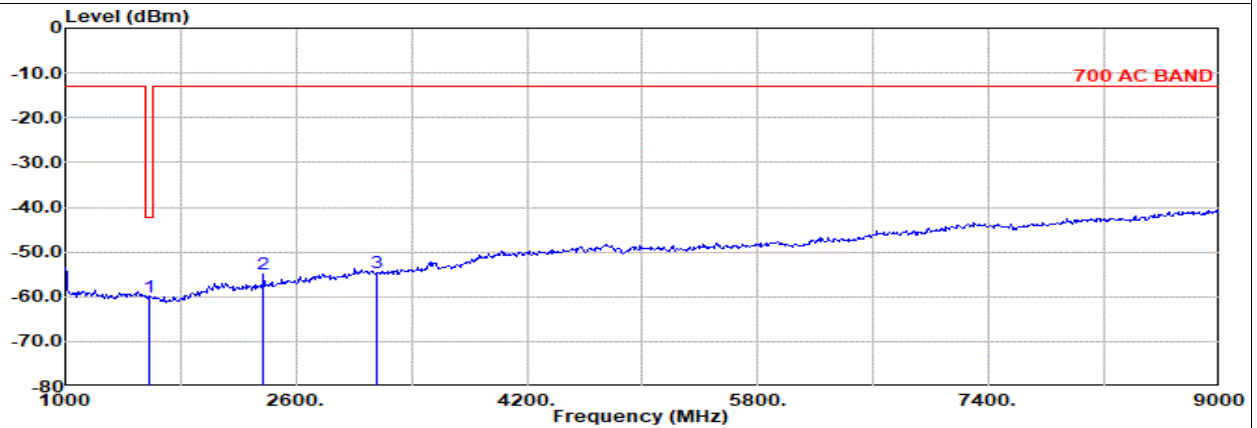
**Antenna 2****Part 90R Mode 4****LTE B14 5M Ch23330 1RB0 QPSK****M**

Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Horizontal

: LTE Band 14 5M Ch23330 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF		Readin	Limit	Margin Pol	
				Factor	1	dB	dB				
	MHz	dBm			dB/m	dB	dB	dBuV	dBm	dB	
1	1581.00	-60.12	RMS		25.51	-27.40	0.81	-95.23	36.19	-42.15	-17.97 Horizontal
2	2372.00	-52.89	RMS		27.38	-26.43	0.56	-95.23	40.83	-13.00	-39.89 Horizontal
3	3163.00	-54.70	RMS		29.85	-25.30	0.38	-95.23	35.60	-13.00	-41.70 Horizontal

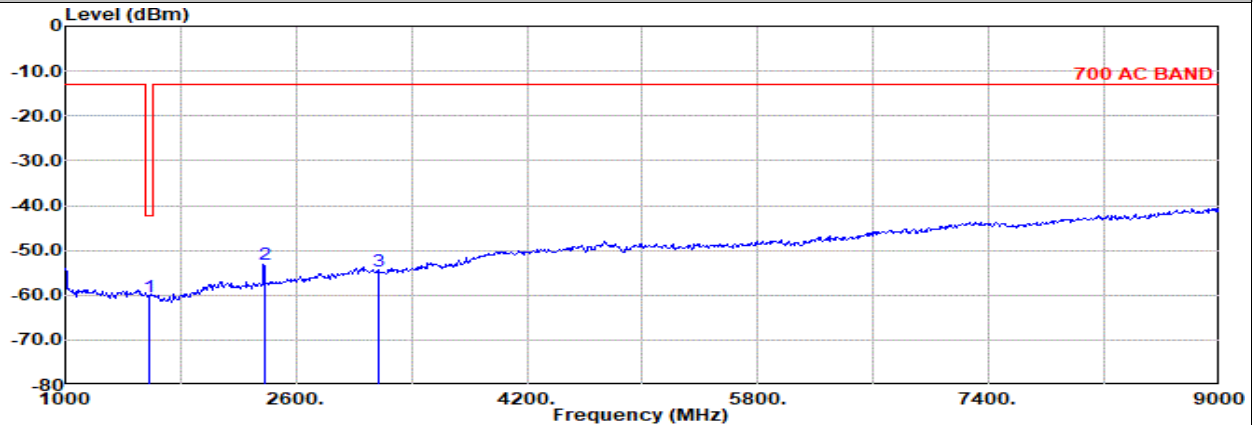


Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Vertical

: LTE Band 14 5M Ch23330 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF		Readin	Limit	Margin Pol	
				Factor	1	dB	dB				
	MHz	dBm			dB/m	dB	dB	dBuV	dBm	dB	
1	1581.00	-60.16	RMS		25.51	-27.40	0.81	-95.23	36.15	-42.15	-18.01 Vertical
2	2372.00	-55.07	RMS		27.38	-26.43	0.56	-95.23	38.65	-13.00	-42.07 Vertical
3	3163.00	-54.54	RMS		29.85	-25.30	0.38	-95.23	35.76	-13.00	-41.54 Vertical

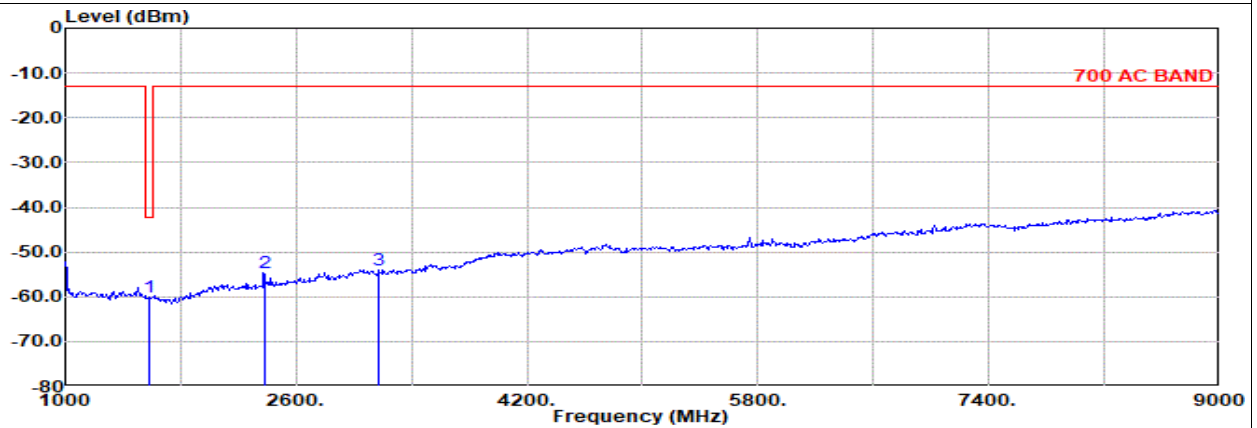
**Antenna 2****Part 90R Mode 4****LTE B14 5M Ch23355 1RB0 QPSK****H**

Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Horizontal

: LTE Band 14 5M Ch23355 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	1586.00	-60.27	RMS	25.56	-27.38	0.80	-95.23	35.98	-42.15	-18.12	Horizontal	
2	2380.00	-53.10	RMS	27.30	-26.43	0.55	-95.23	40.71	-13.00	-40.10	Horizontal	
3	3173.00	-54.50	RMS	29.81	-25.30	0.38	-95.23	35.84	-13.00	-41.50	Horizontal	



Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Vertical

: LTE Band 14 5M Ch23355 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	1586.00	-60.18	RMS	25.56	-27.38	0.80	-95.23	36.07	-42.15	-18.03	Vertical	
2	2380.00	-54.58	RMS	27.30	-26.43	0.55	-95.23	39.23	-13.00	-41.58	Vertical	
3	3173.00	-54.06	RMS	29.81	-25.30	0.38	-95.23	36.28	-13.00	-41.06	Vertical	

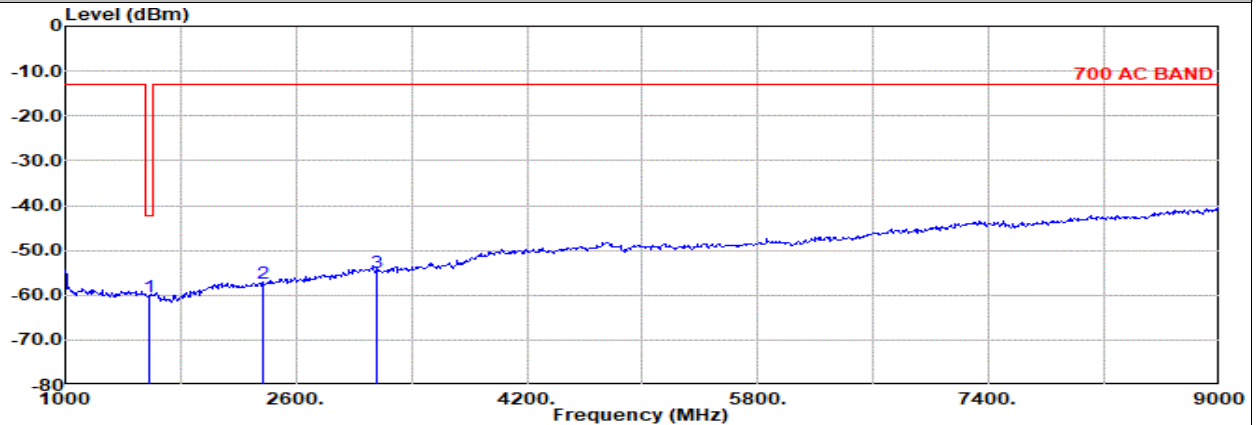


Antenna 2

Part 90R Mode 5

LTE B14 10M Ch23330 1RB0 QPSK

M

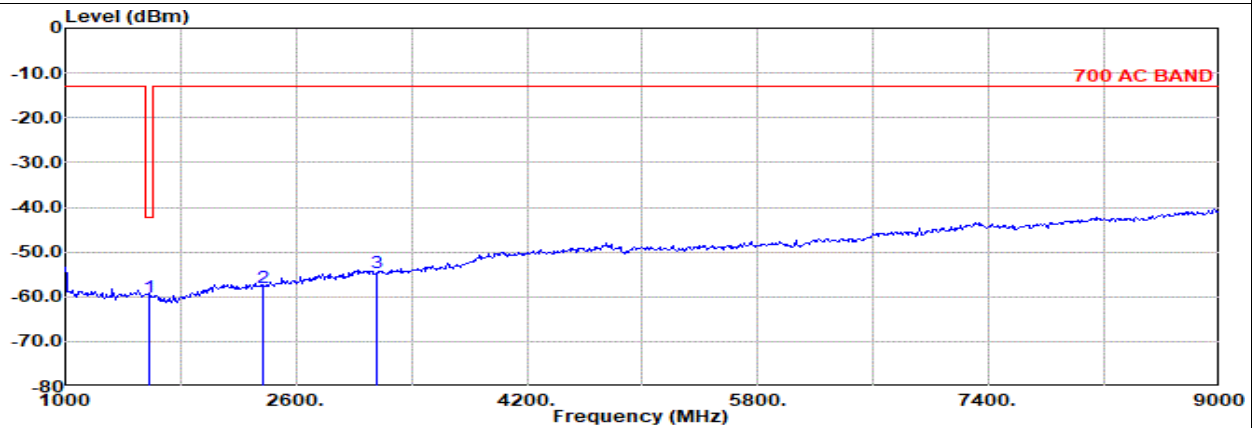


Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Horizontal

: LTE Band 14 10M Ch23330 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin g	Limit		Margin	Pol
					dB/m	dB				dBm	dB		
1	1577.00	-60.47	RMS	25.47	-27.41	0.82	-95.23	35.88	-42.15	-18.32	Horizontal		
2	2365.00	-57.47	RMS	27.40	-26.43	0.56	-95.23	36.23	-13.00	-44.47	Horizontal		
3	3154.00	-54.80	RMS	29.88	-25.31	0.38	-95.23	35.48	-13.00	-41.80	Horizontal		



Site : 03CH12-HY

Condition: 700 AC BAND 3m 9120D-02114-240711 Vertical

: LTE Band 14 10M Ch23330 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin g	Limit		Margin	Pol
					dB/m	dB				dBm	dB		
1	1577.00	-60.04	RMS	25.46	-27.41	0.82	-95.23	36.32	-42.15	-17.89	Vertical		
2	2365.00	-57.90	RMS	27.40	-26.43	0.56	-95.23	35.80	-13.00	-44.90	Vertical		
3	3154.00	-54.54	RMS	29.88	-25.31	0.38	-95.23	35.74	-13.00	-41.54	Vertical		

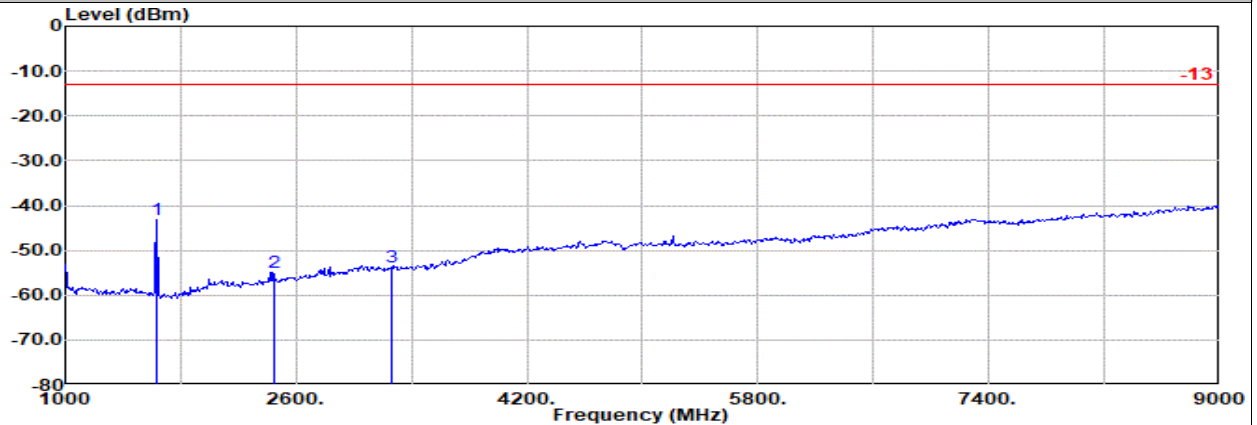


Antenna 2

Part 90S Mode 7

LTE B26 5M Ch26715 1RB0 QPSK

L

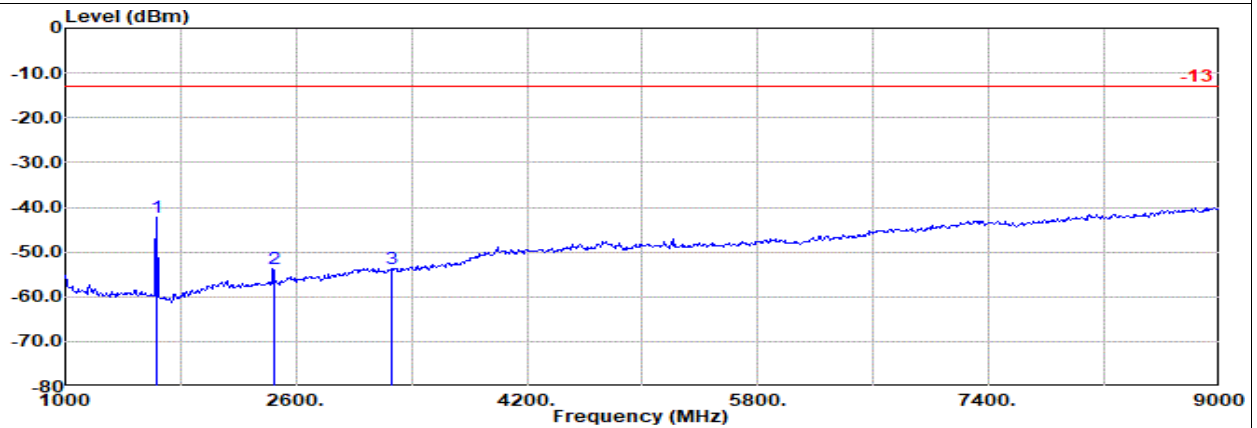


Site : 03CH12-HY

Condition: -13 3m 9120D-02114-240711 Horizontal

: LTE Band 26 5M Ch26715 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	1628.00	-43.24	RMS	25.52	-27.28	0.76	-95.23	52.99	-13.00	-30.24 Horizontal
2	2443.00	-54.87	RMS	27.70	-26.33	0.52	-95.23	38.47	-13.00	-41.87 Horizontal
3	3257.00	-53.81	RMS	29.80	-25.14	0.39	-95.23	36.37	-13.00	-40.81 Horizontal



Site : 03CH12-HY

Condition: -13 3m 9120D-02114-240711 Vertical

: LTE Band 26 5M Ch26715 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	1628.00	-42.27	RMS	25.52	-27.28	0.76	-95.23	53.96	-13.00	-29.27 Vertical
2	2443.00	-53.70	RMS	27.70	-26.33	0.52	-95.23	39.64	-13.00	-40.70 Vertical
3	3257.00	-53.82	RMS	29.80	-25.14	0.39	-95.23	36.36	-13.00	-40.82 Vertical

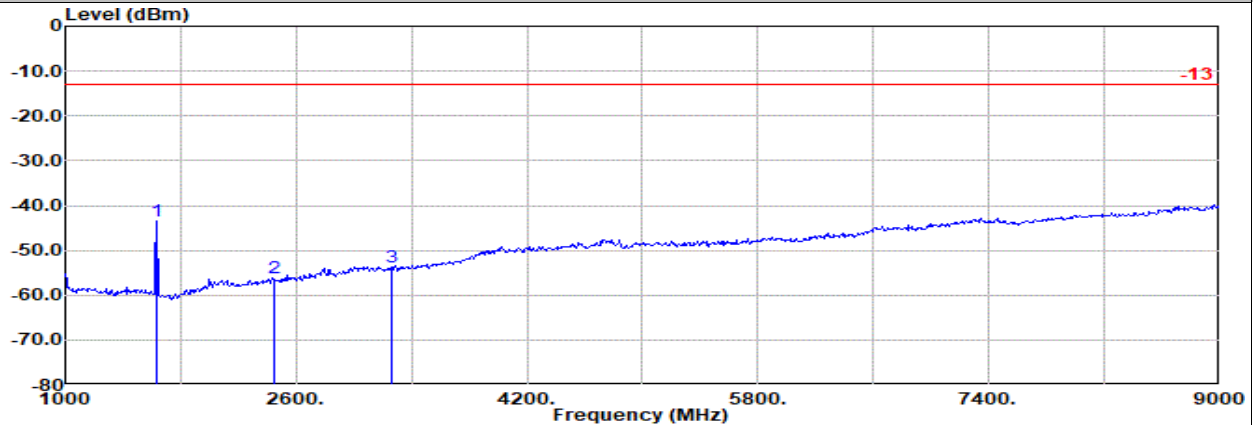


Antenna 2

Part 90S Mode 7

LTE B26 5M Ch26740 1RB0 QPSK

M

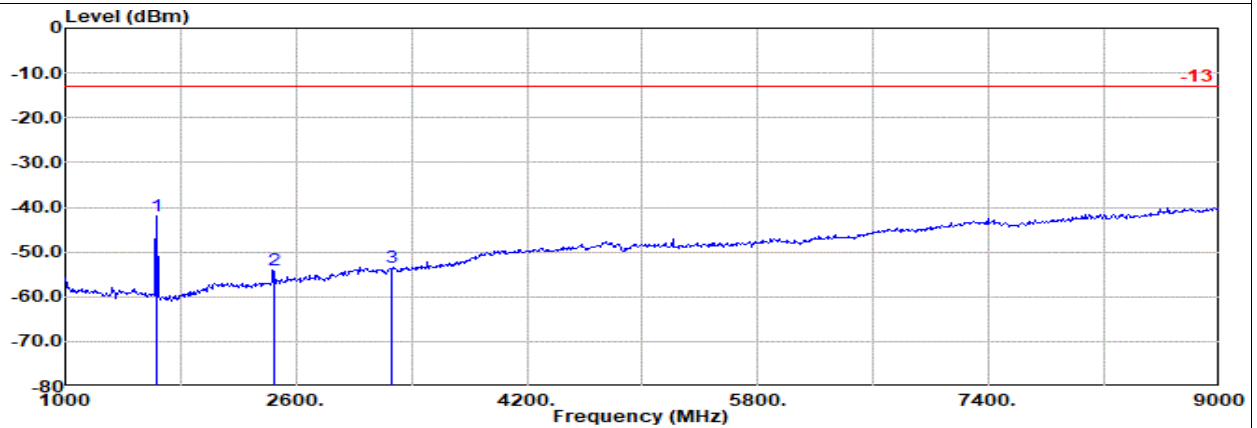


Site : 03CH12-HY

Condition: -13 3m 9120D-02114-240711 Horizontal

: LTE Band 26 5M Ch26740 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin g	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	1633.00	-43.32	RMS	25.47	-27.26	0.76	-95.23	52.94	-13.00	-30.32	Horizontal	
2	2450.00	-56.05	RMS	27.70	-26.31	0.52	-95.23	37.27	-13.00	-43.05	Horizontal	
3	3267.00	-53.65	RMS	29.80	-25.12	0.39	-95.23	36.51	-13.00	-40.65	Horizontal	



Site : 03CH12-HY

Condition: -13 3m 9120D-02114-240711 Vertical

: LTE Band 26 5M Ch26740 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin g	Limit	Margin	Pol
					dB/m	dB						
	MHz	dBm					dB	dB	dBuV	dBm	dB	
1	1633.00	-41.92	RMS	25.47	-27.26	0.76	-95.23	54.34	-13.00	-28.92	Vertical	
2	2450.00	-54.10	RMS	27.70	-26.31	0.52	-95.23	39.22	-13.00	-41.10	Vertical	
3	3267.00	-53.49	RMS	29.80	-25.12	0.39	-95.23	36.67	-13.00	-40.49	Vertical	

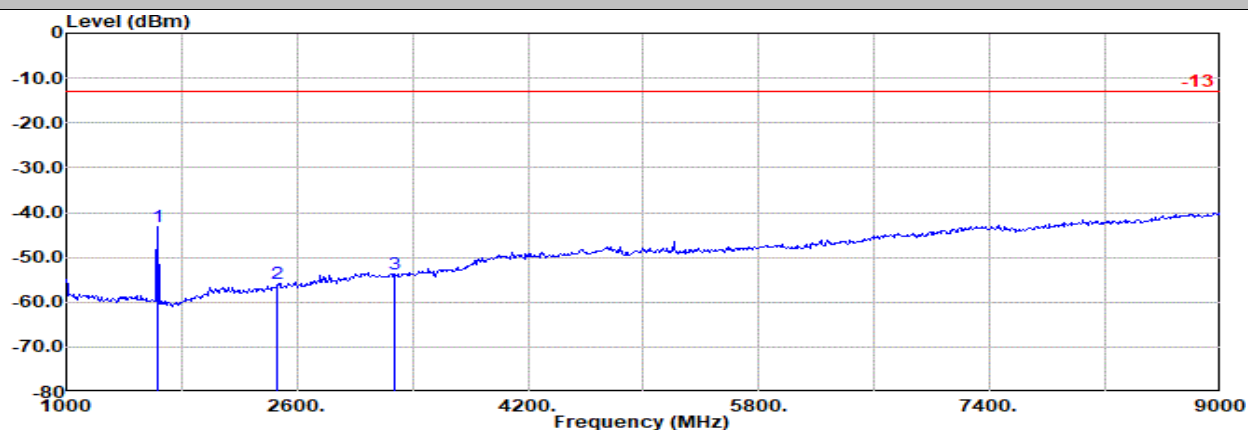


Antenna 2

Part 90S Mode 7

LTE B26 5M Ch26765 1RB0 QPSK

H

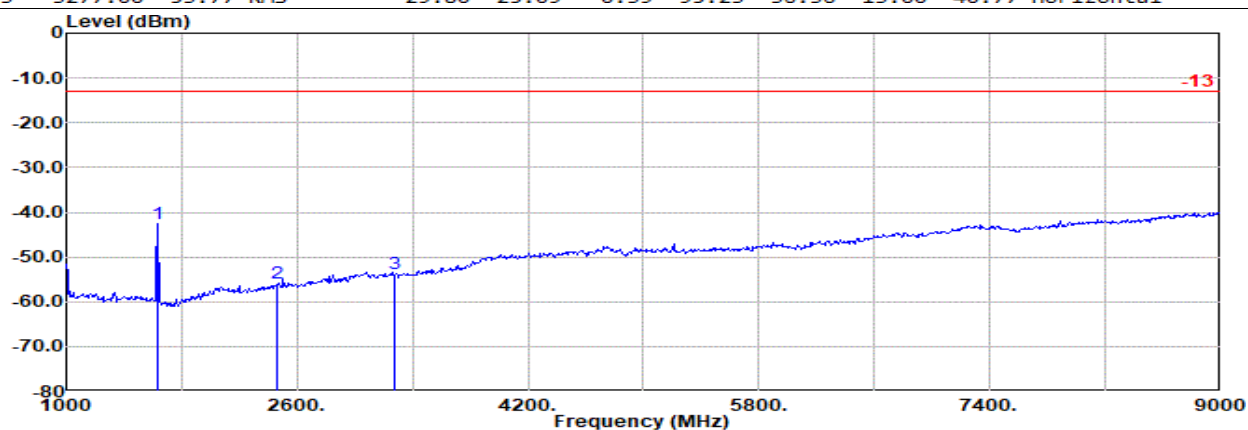


Site : 03CH12-HY

Condition: -13 3m 9120D-02114-240711 Horizontal

: LTE Band 26 5M Ch26765 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin		Pol
					dB/m	dB							
	MHz	dBm					dB	dB	dBuV	dBm	dB		
1	1638.00	-43.02	RMS	25.42	-27.25	0.76	-95.23	53.28	-13.00	-30.02			Horizontal
2	2458.00	-55.76	RMS	27.70	-26.29	0.52	-95.23	37.54	-13.00	-42.76			Horizontal
3	3277.00	-53.77	RMS	29.80	-25.09	0.39	-95.23	36.36	-13.00	-40.77			Horizontal



Site : 03CH12-HY

Condition: -13 3m 9120D-02114-240711 Vertical

: LTE Band 26 5M Ch26765 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin		Pol
					dB/m	dB							
	MHz	dBm					dB	dB	dBuV	dBm	dB		
1	1638.00	-42.65	RMS	25.42	-27.25	0.76	-95.23	53.65	-13.00	-29.65			Vertical
2	2458.00	-55.84	RMS	27.70	-26.29	0.52	-95.23	37.46	-13.00	-42.84			Vertical
3	3277.00	-53.88	RMS	29.80	-25.09	0.39	-95.23	36.25	-13.00	-40.88			Vertical

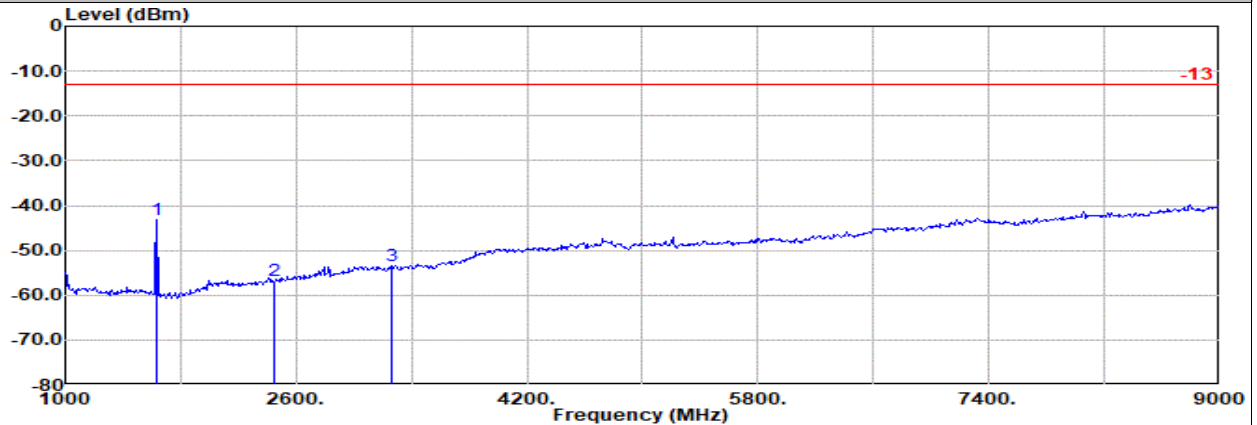


Antenna 2

Part 90S Mode 8

LTE B26 10M Ch26740 1RB0 QPSK

M

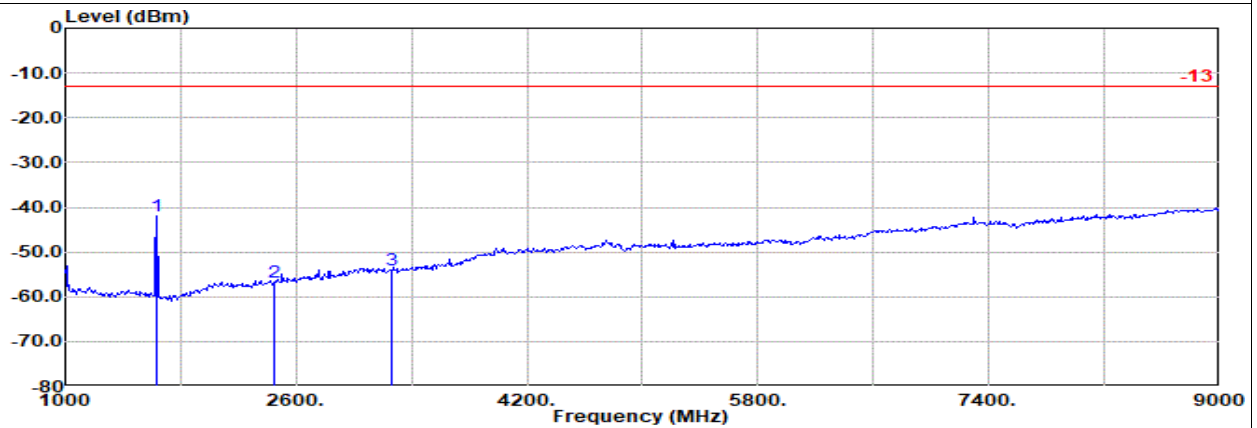


Site : 03CH12-HY

Condition: -13 3m 9120D-02114-240711 Horizontal

: LTE Band 26 10M Ch26740 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF		Readin	Limit	Margin Pol	
				Factor	1	dB	dB				
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1629.00	-43.03	RMS	25.51	-27.27	0.76	-95.23	53.20	-13.00	-30.03	Horizontal
2	2444.00	-56.76	RMS	27.70	-26.33	0.52	-95.23	36.58	-13.00	-43.76	Horizontal
3	3258.00	-53.53	RMS	29.80	-25.14	0.39	-95.23	36.65	-13.00	-40.53	Horizontal



Site : 03CH12-HY

Condition: -13 3m 9120D-02114-240711 Vertical

: LTE Band 26 10M Ch26740 1RB0 QPSK

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF		Readin	Limit	Margin Pol	
				Factor	1	dB	dB				
	MHz	dBm		dB/m	dB	dB	dB	dBuV	dBm	dB	
1	1629.00	-41.84	RMS	25.51	-27.27	0.76	-95.23	54.39	-13.00	-28.84	Vertical
2	2444.00	-56.70	RMS	27.70	-26.33	0.52	-95.23	36.64	-13.00	-43.70	Vertical
3	3258.00	-54.02	RMS	29.80	-25.14	0.39	-95.23	36.16	-13.00	-41.02	Vertical

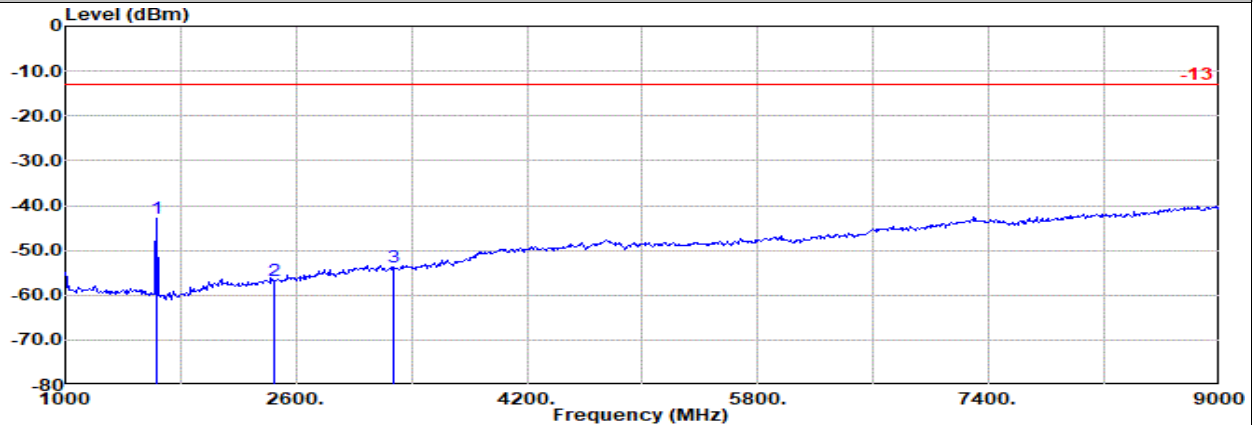


Antenna 2

Part 90S Mode 9

LTE B26 15M Ch26790 1RB0 QPSK

M

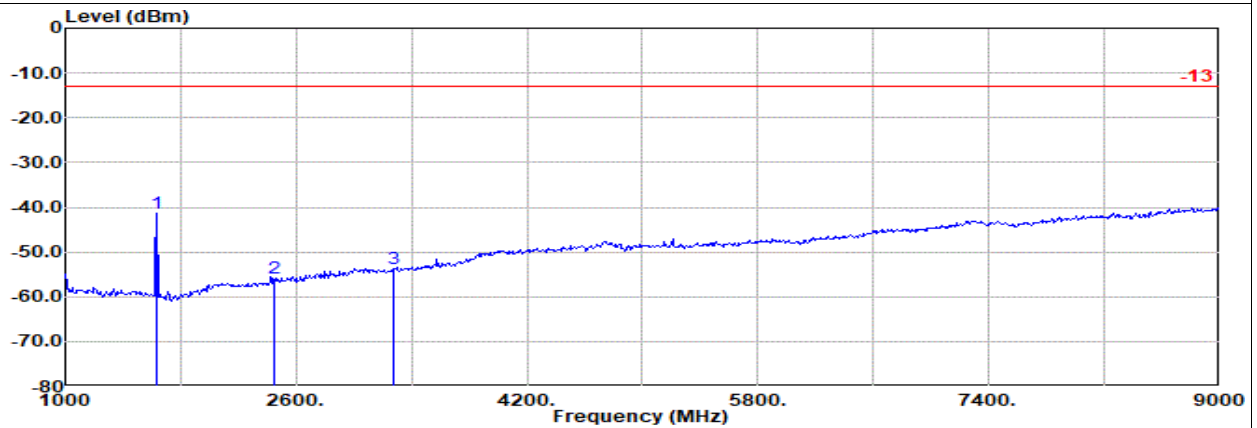


Site : 03CH12-HY

Condition: -13 3m 9120D-02114-240711 Horizontal

: LTE Band 26 15M Ch26790 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin		Pol
					dB/m	dB							
	MHz	dBm					dB	dB	dBuV	dBm	dB		
1	1635.00	-43.01	RMS	25.45	-27.26	0.76	-95.23	53.27	-13.00	-30.01	Horizontal		
2	2452.00	-56.84	RMS	27.70	-26.31	0.52	-95.23	36.48	-13.00	-43.84	Horizontal		
3	3269.00	-53.74	RMS	29.80	-25.11	0.39	-95.23	36.41	-13.00	-40.74	Horizontal		



Site : 03CH12-HY

Condition: -13 3m 9120D-02114-240711 Vertical

: LTE Band 26 15M Ch26790 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin	Limit	Margin		Pol
					dB/m	dB							
	MHz	dBm					dB	dB	dBuV	dBm	dB		
1	1635.00	-41.48	RMS	25.45	-27.26	0.76	-95.23	54.80	-13.00	-28.48	Vertical		
2	2452.00	-55.87	RMS	27.70	-26.31	0.52	-95.23	37.45	-13.00	-42.87	Vertical		
3	3269.00	-53.82	RMS	29.80	-25.11	0.39	-95.23	36.33	-13.00	-40.82	Vertical		

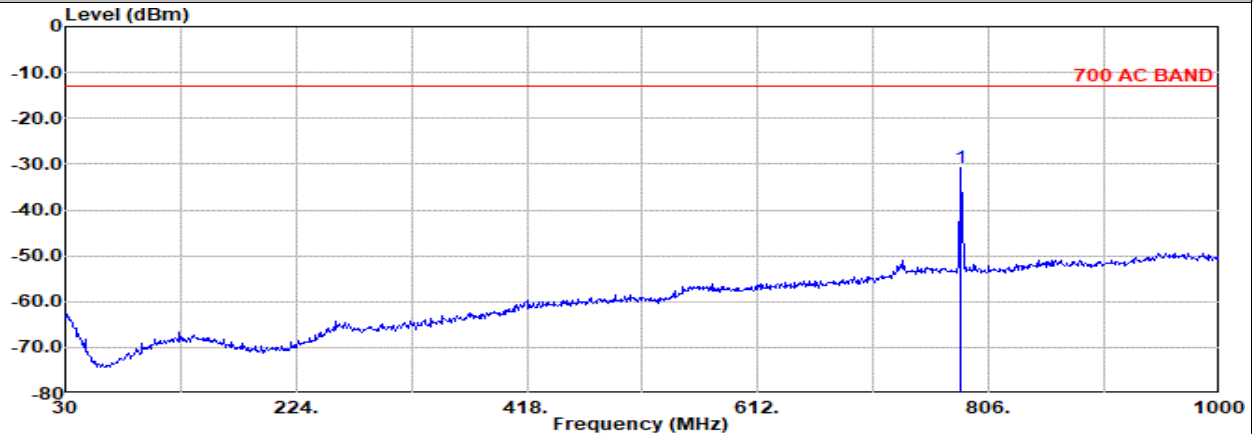


Antenna 2

Part 27F Mode 1

LTE B13 5M Ch23255 1RB0 QPSK

H



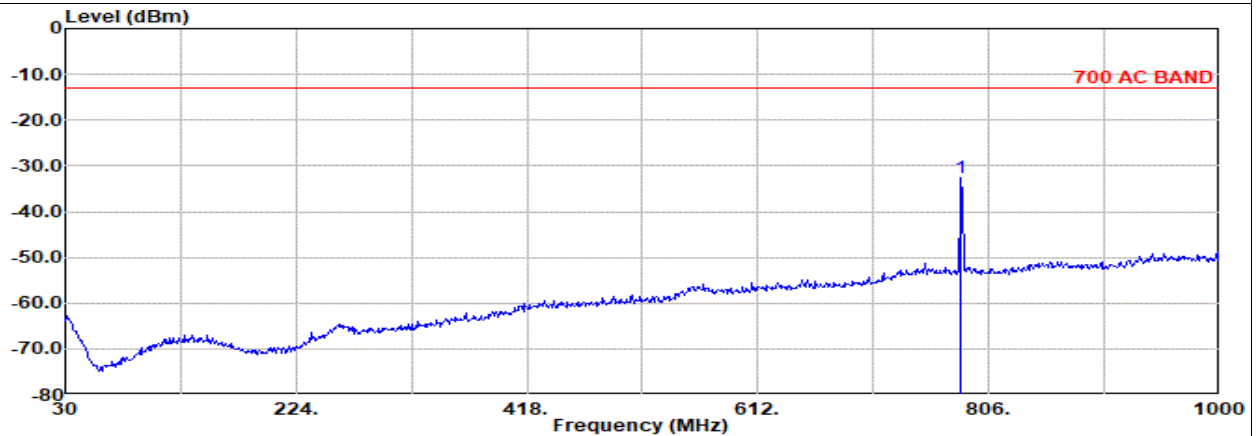
Site : 03CH12-HY

Condition: 700 AC BAND 3m Bilog_37059_20241127 Horizontal

: LTE B13 5M Ch23255 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

	Freq Level		Detector	Ant Factor	Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB			dBuV	dBm	dB	
1	782.72	-30.88	RMS	28.49	3.86	0.00	-95.23	32.00	-13.00	-17.88		Horizontal



Site : 03CH12-HY

Condition: 700 AC BAND 3m Bilog_37059_20241127 Vertical

: LTE B13 5M Ch23255 1RB0 QPSK

: #1 is fundamental signal which can be ignored.

	Freq Level		Detector	Ant Factor	Amp\Cb Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm			dB/m	dB			dBuV	dBm	dB	
1	782.72	-32.50	RMS	28.49	3.86	0.00	-95.23	30.38	-13.00	-19.50		Vertical

Remark: #1 is fundamental signal which can be ignored.