



FCC RADIO TEST REPORT

FCC ID : IHDT56AX5
Equipment : Mobile Cellular Phone
Brand Name : Motorola
Model Name : XT2651V
Applicant : Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Manufacturer : Motorola Mobility LLC
222 W,Merchandise Mart Plaza, Chicago IL 60654 USA
Standard : FCC 47 CFR Part 2, 22(H), 24(E), 27, Part 90(R), Part 90(S)

The product was received on Jun. 16, 2026 and testing was performed from Jun. 23, 2026 to Jul. 30, 2026. 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 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



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History of this test report

Report No.	Version	Description	Issue Date
FG660814B	01	Initial issue of report	Aug. 05, 2026



Summary of Test Result

Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.2	§2.1046	Conducted Output Power	Pass	Note
	§22.913 (a)(5) §90.635	Effective Radiated Power (Band 5) (Band 26)	Pass	
	§27.50 (b)(10) §27.50 (c)(10)	Effective Radiated Power (Band 12) (Band 13) (Band 17) (Band 71)		
	§24.232(c) §27.50(h)(2)	Equivalent Isotropic Radiated Power (Band 2) (Band 25) (Band 7) (Band 38) (Band 41)		
	§27.50 (d)(4)	Equivalent Isotropic Radiated Power (Band 4) (Band 66)		
	§27.50 (k)(3)	Equivalent Isotropic Radiated Power (Band 42)		
	§90.542 (a)(7)	Effective Radiated Power (Band 14)		
3.3	§24.232 (d) §27.50 (d)(5) §27.50 (k)(4)	Peak-to-Average Ratio	Pass	Note
3.4	§2.1049	Occupied Bandwidth	Pass	Note
3.5	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2)(4) §27.53 (g) §27.53 (h)	Conducted Band Edge Measurement (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	Note
	§2.1051 §27.53 (m)(4)	Conducted Band Edge Measurement (Band 7) (Band 38) (Band 41)		
	§2.1051 §27.53 (n)(2)	Conducted Band Edge Measurement (Band 42)		
	§2.1051 §90.543 (e)(2)	Conducted Band Edge Measuremen (Band 14)		
3.6	§2.1051 §90.210 (n)	Emission Mask (Band 14)	Pass	Note
	§2.1051 §90.691	Emission masks (Band 26)		
3.7	§2.1051 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (g) §27.53 (h) §90.691	Conducted Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	Note
	§2.1051 §27.53 (m)(4)	Conducted Spurious Emission (Band 7) (Band 38) (Band 41)		
	§2.1051 §27.53 (n)(2)	Conducted Spurious Emission (Band 42)		
	§2.1051 §90.543 (e)(2)	Conducted Spurious Emission (Band 14)		



Report Clause	Ref Std. Clause	Test Items	Result (PASS/FAIL)	Remark
3.8	§2.1055 §22.355 §24.235 §27.54 §90.539 (e) §90.213	Frequency Stability Temperature & Voltage	Pass	Note
4.2	§2.1053 §22.917 (a) §24.238 (a) §27.53 (c)(2) §27.53 (f) §27.53 (g) §27.53 (h) §90.691	Radiated Spurious Emission (Band 2) (Band 4) (Band 5) (Band 12) (Band 13) (Band 17) (Band 25) (Band 26) (Band 66) (Band 71)	Pass	Note
	§2.1053 §27.53 (m)(4)	Radiated Spurious Emission (Band 7) (Band 38) (Band 41)		
	§2.1053 §27.53 (n)(2)	Radiated Spurious Emission (Band 42)		
	§2.1053 §90.543 (e)(3) §90.543 (f)	Radiated Spurious Emission (Band 14)		

Note:

1. The differences between the parent device (FCC ID: IHDT56AW3) and the variant device (FCC ID: IHDT56AX5) are detailed in the ECR document.
2. Radiated spurious emission measurements were performed as specified in the ECR document. Detailed results are provided in Appendix A.
3. All conducted test results were referenced from FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310B/C/D/E/F/G). In accordance with FCC KDB 484596 D01 Referencing Test Data v03, Conducted power spot-check measurements were performed on the variant device. The spot-check results demonstrate comparable RF performance between the parent and variant devices and support the validity of the referenced conducted test data. Detailed results are provided in Appendix B.
4. The referenced data, FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310B/C/D/E/F/G) are not covered by TAF accreditation and are not considered TAF-accredited results.

Conformity Assessment Condition:

1. 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.
2. 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: Yuri Huang**



1 General Description

1.1 Product Feature of Equipment Under Test

Product Feature	
General Specs	GSM/WCDMA/LTE/5G NR/ mmW, Bluetooth, Wi-Fi 2.4GHz 802.11b/g/n/ax/be, Wi-Fi 5GHz 802.11a/n/ac/ax/be, Wi-Fi 6GHz 802.11a/ax/be, GNSS, NFC,WPT and UWB
Antenna Type subject to this standard	WWAN: IFA/Loop Antenna

Support band and evaluated information	
Supported band	B2,B4,B5,B7,B12,B13,B14,B17,B25,B26,B38,B41,B42,B66,B71, B2C,B5B,B7C,B41C,B42C,B66C
Evaluated and Tested band	B2,B4,B5,B7,B12,B13,B14,B17,B25,B26,B38,B41,B42,B66,B71, B2C,B5B,B7C,B41C,B42C,B66C

FDD/TDD band Power Class				
	SISO PC3	SISO PC2		
B2,B25,B2C	V			
B4,B66,B66C	V			
B5,B26,B5B	V			
B7,B7C	V			
B12	V			
B13	V			
B14	V			
B17	V			
B38	V			
B41/B41C	V	V		
B42/B42C	V			
B71	V			

	Max Antenna Gain information(dBi)							
Band	Ant 0	Ant 1	Ant 2	Ant 3	Ant 4	Ant 6	Ant 8	Main Ant. #
B2,B25	-6.51		-0.8	-4.36	-5.19			3
B4,B66	-6.19		-1.7	-4.39	-4.73			3
B5,B26	-5.17	-8.7						0
B7	-4.97		-1.4	-2.38	-6.33			3
B12	-5.39	-9.1						0
B13	-5.35	-8.9						0
B14	-5.05	-8.9						0
B17	-5.39	-9.1						0
B38	-4.97		-1.4	-2.38	-6.33			3
B41	-4.97		-1.4	-2.38	-6.33			3
B42			-2.1		-3.03	-5.5	-4.15	8
B71	-5.75	-9.7						0

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

EUT Information List	
IMEI	Performed Test Item
352595240018419 352595240018427	Radiated Spurious Emission

Specification of Accessory				
Battery 1	Brand Name	Motorola	Model Name	SH29
Battery 2	Brand Name	Motorola	Model Name	SH31
USB Cable 1	Brand Name	Motorola(SAIBAO)	Model Name	SC18D86731
USB Cable 2	Brand Name	Motorola(Luxshare)	Model Name	SC18E08103

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 TEL: +886-3-327-0868 FAX: +886-3-327-0855
Test Site No.	Sporton Site No. 03CH21-HY
Test Engineer	Jack Cheng, Ray Lung
Temperature (°C)	18~26
Relative Humidity (%)	50~70

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, 22(H), 24(E), 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.
- ♦ FCC KDB 484596 D01 Referencing Test Data v03

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..

The detailed test modes associated with the referenced data are provided in the referenced reports.

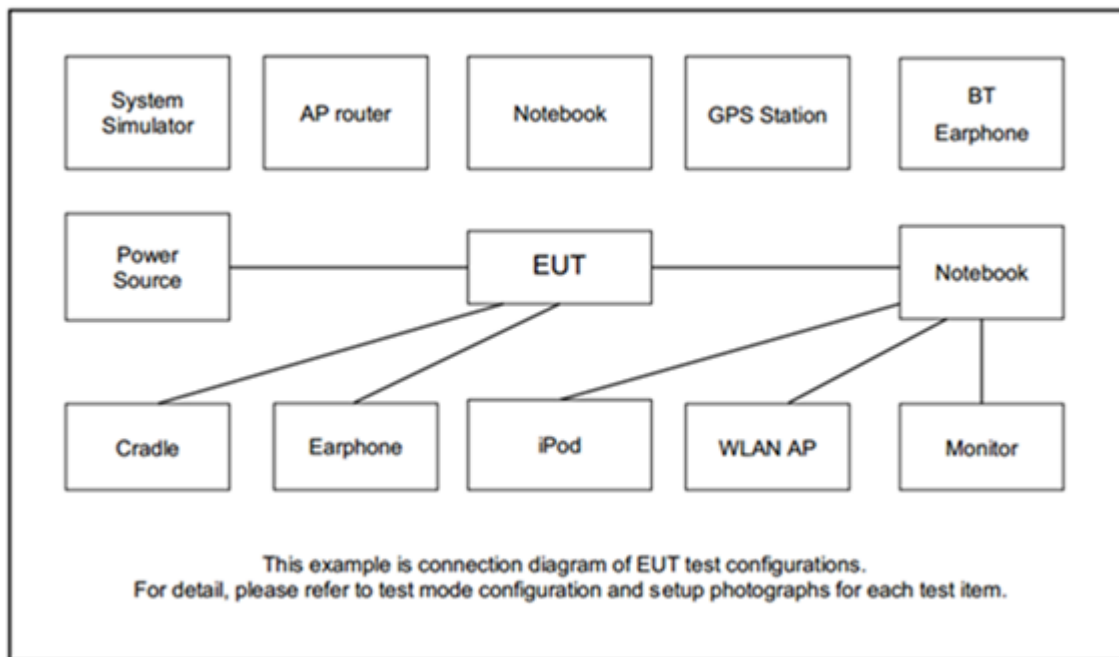
In this report, the conducted output power was measured and compared with the referenced report to confirm consistency. Since the verification results met the acceptance criteria, please refer to the referenced report for the remaining conducted-related test results.

Radiated spurious emission measurements were performed as specified in the ECR document, and the detailed radiated test modes and test results are shown in Appendix A.

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
RSE	A	Max	1RB	M

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.	Base Station	Anritsu	8821C	N/A	N/A	N/A



2.4 Frequency List of Low/Middle/High Channels

LTE Band 2 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	18700	18900	19100
	Frequency	1860	1880	1900
15	Channel	18675	18900	19125
	Frequency	1857.5	1880	1902.5
10	Channel	18650	18900	19150
	Frequency	1855	1880	1905
5	Channel	18625	18900	19175
	Frequency	1852.5	1880	1907.5
3	Channel	18615	18900	19185
	Frequency	1851.5	1880	1908.5
1.4	Channel	18607	18900	19193
	Frequency	1850.7	1880	1909.3

LTE Band 4 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20050	20175	20300
	Frequency	1720	1732.5	1745
15	Channel	20025	20175	20325
	Frequency	1717.5	1732.5	1747.5
10	Channel	20000	20175	20350
	Frequency	1715	1732.5	1750
5	Channel	19975	20175	20375
	Frequency	1712.5	1732.5	1752.5
3	Channel	19965	20175	20385
	Frequency	1711.5	1732.5	1753.5
1.4	Channel	19957	20175	20393
	Frequency	1710.7	1732.5	1754.3



LTE Band 5 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	20450	20525	20600
	Frequency	829	836.5	844
5	Channel	20425	20525	20625
	Frequency	826.5	836.5	846.5
3	Channel	20415	20525	20635
	Frequency	825.5	836.5	847.5
1.4	Channel	20407	20525	20643
	Frequency	824.7	836.5	848.3

LTE Band 7 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	20850	21100	21350
	Frequency	2510	2535	2560
15	Channel	20825	21100	21375
	Frequency	2507.5	2535	2562.5
10	Channel	20800	21100	21400
	Frequency	2505	2535	2565
5	Channel	20775	21100	21425
	Frequency	2502.5	2535	2567.5

LTE Band 12 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23060	23095	23130
	Frequency	704	707.5	711
5	Channel	23035	23095	23155
	Frequency	701.5	707.5	713.5
3	Channel	23025	23095	23165
	Frequency	700.5	707.5	714.5
1.4	Channel	23017	23095	23173
	Frequency	699.7	707.5	715.3



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 17 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
10	Channel	23780	23790	23800
	Frequency	709	710	711
5	Channel	23755	23790	23825
	Frequency	706.5	710	713.5
LTE Band 25 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	26140	26340	26590
	Frequency	1860	1880	1905
15	Channel	26115	26340	26615
	Frequency	1857.5	1880	1907.5
10	Channel	26090	26340	26640
	Frequency	1855	1880	1910
5	Channel	26065	26340	26665
	Frequency	1852.5	1880	1912.5
3	Channel	26055	26340	26675
	Frequency	1851.5	1880	1913.5
1.4	Channel	26047	26340	26683
	Frequency	1850.7	1880	1914.3



LTE Band 26 Channel and Frequency List (Part22H)				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
15	Channel	26865	26915	26965
	Frequency	831.5	836.5	841.5
10	Channel	26840	26915	26990
	Frequency	829.0	836.5	844.0
5	Channel	26815	26915	27015
	Frequency	826.5	836.5	846.5
3	Channel	26805	26915	27025
	Frequency	825.5	836.5	847.5
1.4	Channel	26797	26915	27033
	Frequency	824.7	836.5	848.3

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
3	Channel	26705	26740	26775
	Frequency	815.5	819	822.5
1.4	Channel	26697	26740	26783
	Frequency	814.7	819	823.3

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	Channel	-	26790	-
	Frequency	-	824	-
1.4	Channel	-	26790	-
	Frequency	-	824	-



LTE Band 66 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	132072	132322	132572
	Frequency	1720	1745	1770
15	Channel	132047	132322	132597
	Frequency	1717.5	1745	1772.5
10	Channel	132022	132322	132622
	Frequency	1715	1745	1775
5	Channel	131997	132322	132647
	Frequency	1712.5	1745	1777.5
3	Channel	131987	132322	132657
	Frequency	1711.5	1745	1778.5
1.4	Channel	131979	132322	132665
	Frequency	1710.7	1745	1779.3

LTE Band 38 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	37850	38000	38150
	Frequency	2580.0	2595.0	2610.0
15	Channel	37825	38000	38175
	Frequency	2577.5	2595.0	2612.5
10	Channel	37800	38000	38200
	Frequency	2575.0	2595.0	2615.0
5	Channel	37775	38000	38225
	Frequency	2572.5	2595.0	2617.5

LTE Band 41 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	39750	40620	41490
	Frequency	2506.0	2593.0	2680.0
15	Channel	39725	40620	41515
	Frequency	2503.5	2593.0	2682.5
10	Channel	39700	40620	41540
	Frequency	2501.0	2593.0	2685.0
5	Channel	39675	40620	41565
	Frequency	2498.5	2593.0	2687.5



LTE Band 42 Channel and Frequency List (Part27Q)				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	42190	42590	42990
	Frequency	3460	3500	3540
15	Channel	42165	42590	43015
	Frequency	3457.5	3500	3542.5
10	Channel	42140	42590	43040
	Frequency	3455	3500	3545
5	Channel	42115	42590	43065
	Frequency	3452.5	3500	3547.5

LTE Band 71 Channel and Frequency List				
BW [MHz]	Channel/Frequency(MHz)	Lowest	Middle	Highest
20	Channel	133222	133297	133372
	Frequency	673.0	680.5	688.0
15	Channel	133197	133297	133397
	Frequency	670.5	680.5	690.5
10	Channel	133172	133297	133422
	Frequency	668.0	680.5	693.0
5	Channel	133147	133297	133447
	Frequency	665.5	680.5	695.5



LTE Band 2C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 15	PCC	Channel	18653	18829	19005
		Frequency	1855.3	1872.9	1890.5
	SCC	Channel	18773	18949	19125
		Frequency	1867.3	1884.9	1902.5
15 + 10	PCC	Channel	18675	18851	19027
		Frequency	1857.5	1875.1	1892.7
	SCC	Channel	18795	18971	19147
		Frequency	1869.5	1887.1	1904.7
10 + 20	PCC	Channel	18655	18806	18956
		Frequency	1855.5	1870.6	1885.6
	SCC	Channel	18799	18950	19100
		Frequency	1869.9	1885	1900
20 + 10	PCC	Channel	18700	18551	19001
		Frequency	1860	1875.1	1890.1
	SCC	Channel	18844	18995	19145
		Frequency	1874.4	1889.5	1904.5
15 + 15	PCC	Channel	18675	18825	18975
		Frequency	1857.5	1872.5	1887.5
	SCC	Channel	18825	18975	19125
		Frequency	1872.5	1887.5	1902.5
15 + 20	PCC	Channel	18678	18803	18929
		Frequency	1857.8	1870.3	1882.9
	SCC	Channel	18849	18974	19100
		Frequency	1874.9	1887.4	1900
20 + 20	PCC	Channel	18700	18801	18902
		Frequency	1860	1870.1	1880.2
	SCC	Channel	18898	18999	19100
		Frequency	1879.8	1889.9	1900
20 + 15	PCC	Channel	18700	18826	18951
		Frequency	1860	1872.6	1885.1
	SCC	Channel	18871	18997	19122
		Frequency	1877.1	1889.7	1902.2



LTE Band 2C Channel and Frequency List_CA					
20 + 5	PCC	Channel	18700	18875	19050
		Frequency	1860	1877.5	1895
	SCC	Channel	18817	18992	19167
		Frequency	1871.7	1889.2	1906.7
5 + 20	PCC	Channel	18633	18808	18983
		Frequency	1853.3	1870.8	1888.3
	SCC	Channel	18750	18925	19100
		Frequency	1865	1882.5	1900

LTE Band 5B Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
3 + 5	PCC	Channel	20416	20501	20586
		Frequency	825.6	834.1	842.6
	SCC	Channel	20455	20540	20575
		Frequency	829.5	838.0	841.5
5 + 3	PCC	Channel	20425	20510	20595
		Frequency	826.5	835.0	843.5
	SCC	Channel	20464	20549	20634
		Frequency	830.4	838.9	847.4
5 + 10	PCC	Channel	20428	20478	20528
		Frequency	826.8	831.8	836.8
	SCC	Channel	20500	20550	20600
		Frequency	834.0	839.0	844.0
10 + 5	PCC	Channel	20450	20500	20550
		Frequency	829.0	834.0	839.0
	SCC	Channel	20522	20572	20622
		Frequency	836.2	841.2	846.2
10 + 10	PCC	Channel	20450	20476	20501
		Frequency	829.0	831.6	834.1
	SCC	Channel	20549	20575	20600
		Frequency	838.9	841.5	844.0



LTE Band 7C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	20850	21001	21152
		Frequency	2510.0	2525.1	2540.2
	SCC	Channel	21048	21199	21350
		Frequency	2529.8	2544.9	2560.0
20 + 15	PCC	Channel	20850	21026	21201
		Frequency	2510.0	2527.6	2545.1
	SCC	Channel	21021	21197	21372
		Frequency	2527.1	2544.7	2562.2
15 + 20	PCC	Channel	20828	21003	21179
		Frequency	2507.8	2525.3	2542.9
	SCC	Channel	20999	21174	21350
		Frequency	2524.9	2542.4	2560.0
20 + 10	PCC	Channel	20850	21051	21251
		Frequency	2510.0	2530.1	2550.1
	SCC	Channel	20994	21195	21395
		Frequency	2524.4	2544.5	2564.5
10 + 20	PCC	Channel	20805	21006	21206
		Frequency	2505.5	2525.6	2545.6
	SCC	Channel	20949	21150	21350
		Frequency	2519.9	2540.0	2560.0
15 + 15	PCC	Channel	20825	21025	21225
		Frequency	2507.5	2527.5	2547.5
	SCC	Channel	20975	21175	21375
		Frequency	2522.5	2542.5	2562.5
15 + 10	PCC	Channel	20825	21051	21277
		Frequency	2507.5	2530.1	2552.7
	SCC	Channel	20945	21171	21397
		Frequency	2519.5	2542.1	2564.7



LTE Band 66C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
10 + 15	PCC	Channel	132025	132351	132477
		Frequency	1715.3	1747.9	1760.5
	SCC	Channel	132145	133371	132597
		Frequency	1727.3	1759.9	1772.5
15 + 10	PCC	Channel	132047	132373	132499
		Frequency	1717.5	1750.1	1762.7
	SCC	Channel	132167	132493	132619
		Frequency	1729.5	1762.1	1774.7
10 + 20	PCC	Channel	132027	132328	132428
		Frequency	1715.5	1745.6	1755.6
	SCC	Channel	131171	133372	132572
		Frequency	1729.9	1760.0	1770.0
20 + 10	PCC	Channel	132072	132373	132473
		Frequency	1720.0	1750.1	1760.1
	SCC	Channel	132216	133417	132617
		Frequency	1734.4	1764.5	1774.5
15 + 15	PCC	Channel	132047	132347	132447
		Frequency	1717.5	1747.5	1757.5
	SCC	Channel	132197	133397	132597
		Frequency	1732.5	1762.5	1772.5
15 + 20	PCC	Channel	132050	132325	132401
		Frequency	1717.8	1745.3	1752.9
	SCC	Channel	132221	133396	132572
		Frequency	1734.9	1762.4	1770.0
20 + 15	PCC	Channel	132072	132348	132423
		Frequency	1720.0	1747.6	1755.1
	SCC	Channel	132243	133419	132594
		Frequency	1737.1	1764.7	1772.2
20 + 5	PCC	Channel	132072	132397	132522
		Frequency	1720.0	1752.5	1765.0
	SCC	Channel	132189	133414	132639
		Frequency	1731.7	1764.2	1776.7



LTE Band 66C Channel and Frequency List_CA					
5 + 20	PCC	Channel	132005	132330	132455
		Frequency	1713.3	1745.8	1758.3
	SCC	Channel	132122	132447	132572
		Frequency	1725.0	1757.5	1770.0
20 + 20	PCC	Channel	132072	132323	132374
		Frequency	1720.0	1745.1	1750.2
	SCC	Channel	132270	133421	132572
		Frequency	1739.8	1764.9	1770.0

LTE Band 41C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	39750	40521	41292
		Frequency	2506.0	2583.1	2660.2
	SCC	Channel	39948	40719	41490
		Frequency	2525.8	2602.9	2680.0
20 + 15	PCC	Channel	39750	40546	41341
		Frequency	2506.0	2585.6	2665.1
	SCC	Channel	39921	40717	41512
		Frequency	2523.1	2602.7	2682.2
15 + 20	PCC	Channel	39728	40523	41319
		Frequency	2503.8	2593.3	2662.9
	SCC	Channel	39899	40694	41490
		Frequency	2520.9	2600.4	2680.0
20 + 10	PCC	Channel	39750	40571	41391
		Frequency	2506.0	2588.1	2670.1
	SCC	Channel	39894	40715	41535
		Frequency	2520.4	2602.5	2684.5
10 + 20	PCC	Channel	39705	40526	41346
		Frequency	2501.5	2583.6	2665.6
	SCC	Channel	39849	40670	41490
		Frequency	2515.9	2598.0	2680.0



LTE Band 41C Channel and Frequency List_CA					
20 + 5	PCC	Channel	39750	40595	41440
		Frequency	2506.0	2590.5	2675.0
	SCC	Channel	39867	40712	41557
		Frequency	2517.7	2602.2	2686.7
5 + 20	PCC	Channel	39683	40528	41373
		Frequency	2499.3	2583.8	2668.3
	SCC	Channel	39800	40645	41490
		Frequency	2511.0	2595.5	2680.0
15 + 15	PCC	Channel	39725	40545	41365
		Frequency	2503.5	2585.5	2667.5
	SCC	Channel	39875	40695	41515
		Frequency	2518.5	2600.5	2682.5
10 + 15	PCC	Channel	39703	40549	41395
		Frequency	2501.3	2585.9	2670.5
	SCC	Channel	39823	40669	41515
		Frequency	2513.3	2597.9	2682.5
15 + 10	PCC	Channel	39725	40571	41417
		Frequency	2503.5	2588.1	2672.7
	SCC	Channel	39845	40691	41537
		Frequency	2515.5	2600.1	2684.7



LTE Band 42C Channel and Frequency List_CA					
BW [MHz]	Channel/Frequency(MHz)		Lowest	Middle	Highest
20 + 20	PCC	Channel	42190	42491	42791
		Frequency	3460	3490.1	3520.1
	SCC	Channel	42388	42689	42990
		Frequency	3479.8	3509.9	3540
20 + 15	PCC	Channel	42190	42517	42844
		Frequency	3460	3492.7	3525.4
	SCC	Channel	42361	42688	43015
		Frequency	3477.1	3509.8	3542.5
15 + 20	PCC	Channel	42165	42492	42819
		Frequency	3457.5	3490.2	3522.9
	SCC	Channel	42336	42663	42990
		Frequency	3474.6	3507.3	3540
20 + 10	PCC	Channel	42190	42543	42896
		Frequency	3460	3495.3	3530.6
	SCC	Channel	42334	42687	43040
		Frequency	3474.4	3509.7	3545
10 + 20	PCC	Channel	42140	42493	42846
		Frequency	3455	3490.3	3525.6
	SCC	Channel	42284	42637	42990
		Frequency	3469.4	3504.7	3540
20 + 5	PCC	Channel	42190	42569	42948
		Frequency	3460	3497.9	3535.8
	SCC	Channel	42307	42686	43065
		Frequency	3471.7	3509.6	3547.5
5 + 20	PCC	Channel	42115	42494	42873
		Frequency	3452.5	3490.4	3528.3
	SCC	Channel	42232	42611	42990
		Frequency	3464.2	3502.1	3540

3 Conducted Test Items

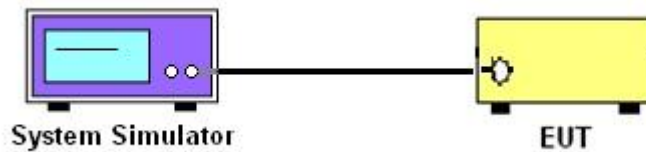
Conducted Test Items

3.1 Measuring Instruments

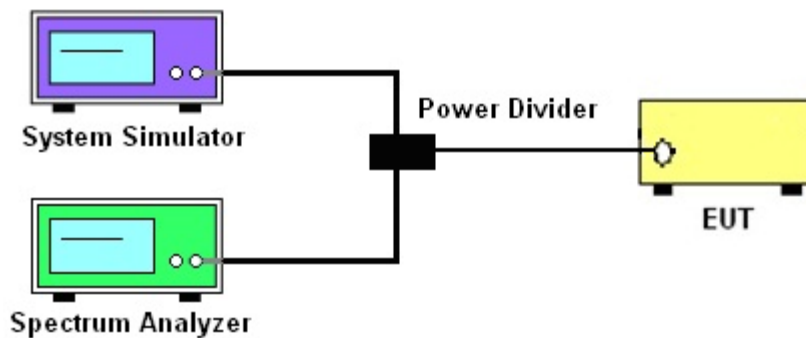
See list of measuring instruments of this test report.

3.1.1 Test Setup

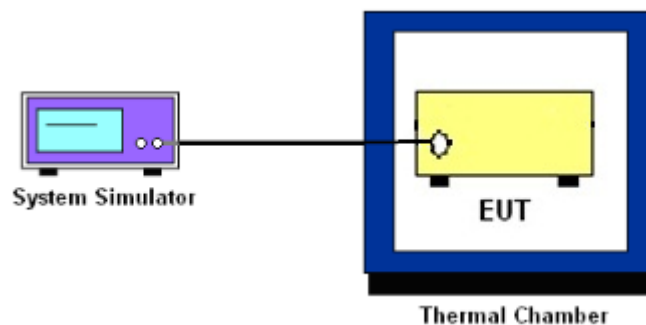
3.1.2 Conducted Output Power



3.1.3 Peak-to-Average Ratio, Occupied Bandwidth ,Conducted Band-Edge, Emission Mask and Conducted Spurious Emission



3.1.4 Frequency Stability



3.1.5 Test Result of Conducted Test

Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310B/C/D/E/F/G).



3.2 Conducted Output Power and ERP/EIRP

3.2.1 Description of the Conducted Output Power Measurement and ERP/EIRP Measurement

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

The ERP of mobile transmitters must not exceed 7 Watts for LTE Band 5, Band 26 (Part 22H)

The power of mobile transmitters must not exceed 100 Watts for 5G NR n26 (Part 90S)

The ERP of mobile transmitters must not exceed 3 Watts for LTE Band 12, Band 13, Band 14, Band 17, Band 71

The EIRP of mobile transmitters must not exceed 2 Watts for LTE Band 2, Band 25, Band 7, Band 38, Band 41

The EIRP of mobile transmitters must not exceed 1 Watts for LTE Band 4, Band 66, Band 42

According to KDB 412172 D01 Power Approach,

$EIRP = P_T + G_T - L_C$, $ERP = EIRP - 2.15$, where

P_T = transmitter output power in dBm

G_T = gain of the transmitting antenna in dBi

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

3.2.2 Test Procedures

1. The transmitter output port was connected to the system simulator.
2. Set EUT at maximum power through the system simulator.
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 Peak-to-Average Ratio

3.3.1 Description of the PAR Measurement

Power Complementary Cumulative Distribution Function (CCDF) curves provide a means for characterizing the power peaks of a digitally modulated signal on a statistical basis. A CCDF curve depicts the probability of the peak signal amplitude exceeding the average power level. Most contemporary measurement instrumentation include the capability to produce CCDF curves for an input signal provided that the instrument's resolution bandwidth can be set wide enough to accommodate the entire input signal bandwidth. In measuring transmissions in this band using an average power technique, the peak-to-average ratio (PAR) of the transmission may not exceed 13 dB.

3.3.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.2.6

1. The EUT was connected to spectrum and system simulator via a power divider.
2. Set the CCDF (Complementary Cumulative Distribution Function) option in spectrum analyzer.
3. The highest RF powers were measured and recorded the maximum PAPR level associated with a probability of 0.1 %.
4. Record the deviation as Peak to Average Ratio.



3.4 Occupied Bandwidth

3.4.1 Description of Occupied Bandwidth Measurement

The occupied bandwidth is the width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5% of the total mean transmitted power.

The 26 dB emission bandwidth is defined as the frequency range between two points, one above and one below the carrier frequency, at which the spectral density of the emission is attenuated 26 dB below the maximum in-band spectral density of the modulated signal. Spectral density (power per unit bandwidth) is to be measured with a detector of resolution bandwidth equal to approximately 1.0% of the emission bandwidth.

3.4.2 Test Procedures

The testing follows ANSI C63.26-2015 Section 5.4.3 (26dB) and Section 5.4.4 (99OB)

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The spectrum analyzer center frequency is set to the nominal EUT channel center frequency. The span range for the spectrum analyzer shall be between two and five times the anticipated OBW.
3. The nominal resolution bandwidth (RBW) shall be in the range of 1 to 5 % of the anticipated OBW, and the VBW shall be at least 3 times the RBW.
4. Set the detection mode to peak, and the trace mode to max hold.
5. Determine the reference value: Set the EUT to transmit a modulated signal. Allow the trace to stabilize. Set the spectrum analyzer marker to the highest level of the displayed trace.
(this is the reference value)
6. Determine the “-26 dB down amplitude” as equal to (Reference Value – X).
7. Place two markers, one at the lowest and the other at the highest frequency of the envelope of the spectral display such that each marker is at or slightly below the “-X dB down amplitude” determined in step 6. If a marker is below this “-X dB down amplitude” value it shall be placed as close as possible to this value. The OBW is the positive frequency difference between the two markers.
8. Use the 99 % power bandwidth function of the spectrum analyzer and report the measured bandwidth.



3.5 Conducted Band Edge

3.5.1 Description of Conducted Band Edge Measurement

22.917(a)

For operations in the 824 – 849 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100kHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

24.238 (a)

For operations in the 1850-1910 and 1930-1990 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1MHz bandwidth. However, in the 1 MHz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

27.53 (c)

For operations in the 776-788 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emissions in any 6.25 kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power, P (dBW), by at least $65 + 10 \log_{10} p(\text{watts})$, dB, for mobile and portable equipment.

27.53 (g)

For operations in the 600MHz band and 698-746 MHz band, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 100 kHz bandwidth. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

27.53 (h)

For operations in the 1710 – 1755 MHz band, 1755-1780 MHz, the FCC limit is $43 + 10\log_{10}(P[\text{Watts}])$ dB below the transmitter power $P(\text{Watts})$ in a 1 MHz bandwidth. However, in the 1MHz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

**27.53(m)(4)**

For mobile digital stations, the attenuation factor shall be not less than $40 + 10 \log (P)$ dB on all frequencies between the channel edge and 5 megahertz from the channel edge, $43 + 10 \log (P)$ dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and $55 + 10 \log (P)$ dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less than $43 + 10 \log (P)$ dB on all frequencies between 2490.5 MHz and 2496 MHz and $55 + 10 \log (P)$ dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees.

27.53(n)(2)

For mobile operations in the 3450-3550 MHz band, the conducted power of any emission outside the licensee's authorized bandwidth shall not exceed -13 dBm/MHz. Compliance with this paragraph (n)(2) is based on the use of measurement instrumentation employing a resolution bandwidth of 1 megahertz or greater. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed, but limited to a maximum of 200 kHz. In the bands between 1 and 5 MHz removed from the licensee's frequency block, the minimum resolution bandwidth for the measurement shall be 500 kHz. The emission bandwidth is defined as the width of the signal between two points, one below the carrier center frequency and one above the carrier center frequency, outside of which all emissions are attenuated at least 26 dB below the transmitter power.

90.543(e)

- (1) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $76 + 10 \log (P)$ dB in a 6.25 kHz band segment, for base and fixed stations.
- (2) On all frequencies between 769-775 MHz and 799-805 MHz, by a factor not less than $65 + 10 \log (P)$ dB in a 6.25 kHz band segment, for mobile and portable stations.
- (3) On any frequency between 775-788 MHz, above 805 MHz, and below 758 MHz, by at least $43 + 10 \log (P)$ dB.



3.5.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The band edges of low and high channels for the highest RF powers were measured.
3. Set RBW $\geq$ 1% EBW in the 1MHz band immediately outside and adjacent to the band edge.
4. Beyond the 1 MHz band from the band edge, RBW=1MHz was used.
5. Set spectrum analyzer with RMS detector.
6. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.
7. Checked that all the results comply with the emission limit line.



3.6 Emission Mask

3.6.1 Description of Emissions Mask Measurement

For LTE Band 14

Transmitters designed must meet the emission mask comply with the emission mask provisions of FCC Part 90.210(n).

For LTE Band 26

Equipment used in this licensed to EA or non-EA systems shall comply with the emission mask provisions of FCC Part 90.691

(a) Out-of-band emission requirement shall apply only to the "outer" channels included in an EA license and to spectrum adjacent to interior channels used by incumbent licensees. The emission limits are as follows:

(1) For any frequency removed from the EA licensee's frequency block by up to and including 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $116 \log_{10}(f/6.1)$ decibels or $50 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 12.5 kHz.

(2) For any frequency removed from the EA licensee's frequency block greater than 37.5 kHz, the power of any emission shall be attenuated below the transmitter power (P) in watts by at least $43 + 10 \log_{10}(P)$ decibels or 80 decibels, whichever is the lesser attenuation, where f is the frequency removed from the center of the outer channel in the block in kilohertz and where f is greater than 37.5 kHz.



3.6.2 Test Procedures

For LTE Band 14

The testing follows FCC KDB 971168 D01 v03r01 Section 6.0.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The power of the modulated signal was measured on a spectrum analyzer using an RMS and 10 second sweep time in order to maximize the level.
3. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.

For LTE Band 26

1. The EUT was connected to spectrum analyzer and base station via power divider.
2. The emissions mask of low and high channels for the highest RF powers were measured.
3. Set RBW and VBW 3 times of RBW to make the measurement with the spectrum analyzer's, and according to KDB 971168 D02 Misc Rev Approve License Devices v02r01 standards, set RBW = 300 Hz to make offsets less than 37.5 kHz from a channel edge , RBW = 100 kHz to make offsets greater than 37.5 kHz, that is allowed.
4. The test results were shown below plots with a correction offset factor including cable loss, insertion loss of power divider.



3.7 Conducted Spurious Emission

3.7.1 Description of Conducted Spurious Emission Measurement

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $43 + 10 \log (P)$ dB.

For LTE Band 7, 38, 41

The power of any emission outside of the authorized operating frequency ranges must be lower than the transmitter power (P) by a factor of at least $55 + 10 \log (P)$ dB.

It is measured by means of a calibrated spectrum analyzer and scanned from 30 MHz up to a frequency including its 10th harmonic.

3.7.2 Test Procedures

The testing follows FCC KDB 971168 D01 v03r01 Section 6.1.

1. The EUT was connected to spectrum analyzer and system simulator via a power divider.
2. The RF output of EUT was connected to the spectrum analyzer by RF cable and attenuator.
The path loss was compensated to the results for each measurement.
3. The conducted spurious emission for the whole frequency range was taken.
4. Make the measurement with the spectrum analyzer's RBW = 100 kHz if the authorized frequency band/block is at or below 1 GHz and 1 MHz if the authorized frequency band/block is above 1 GHz, VBW = 3 * RBW.
5. Set spectrum analyzer with RMS detector.
6. Taking the record of maximum spurious emission.
7. The RF fundamental frequency should be excluded against the limit line in the operating frequency band.



3.8 Frequency Stability

3.8.1 Description of Frequency Stability Measurement

22.355

The frequency stability shall be measured by variation of ambient temperature and variation of primary supply voltage to ensure that the fundamental emission stays within the authorized frequency block. The frequency stability of the transmitter shall be maintained within $\pm 0.00025\%$ ($\pm 2.5\text{ppm}$) of the center frequency.

24.235 & 27.54

The frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

§90.213

The frequency stability shall be sufficient to ensure that the fundamental emissions remain within the authorized frequency block. The frequency stability shall be maintained within the applicable frequency tolerance specified in §90.213.

3.8.2 Test Procedures for Temperature Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was set up in the thermal chamber and connected with the system simulator.
2. With power OFF, the temperature was decreased to -30°C and the EUT was stabilized before testing. Power was applied and the maximum change in frequency was recorded within one minute.
3. With power OFF, the temperature was raised in 10°C step up to 50°C . The EUT was stabilized at each step for at least half an hour. Power was applied and the maximum frequency change was recorded within one minute.

3.8.3 Test Procedures for Voltage Variation

The testing follows FCC KDB 971168 D01 v03r01 Section 9.0.

1. The EUT was placed in a temperature chamber at $20 \pm 5^{\circ}\text{C}$ and connected with the system simulator.
2. The power supply voltage to the EUT was varied from 85% to 115% of the nominal value measured at the input to the EUT.
3. The variation in frequency was measured for the worst case.

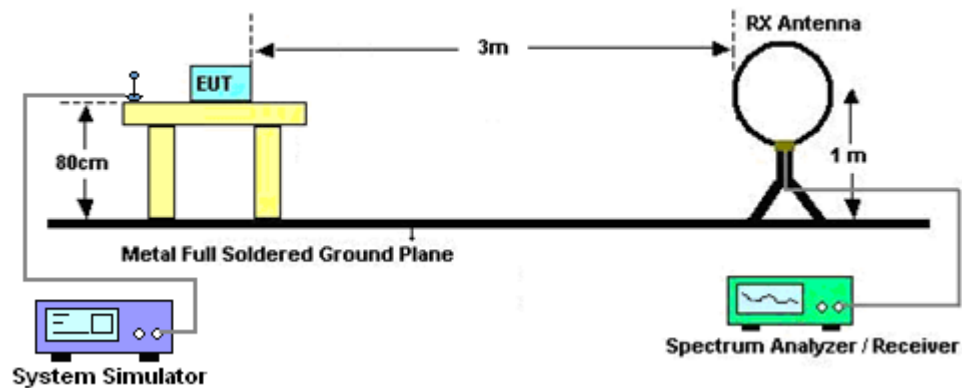
4 Radiated Test Items

4.1 Measuring Instruments

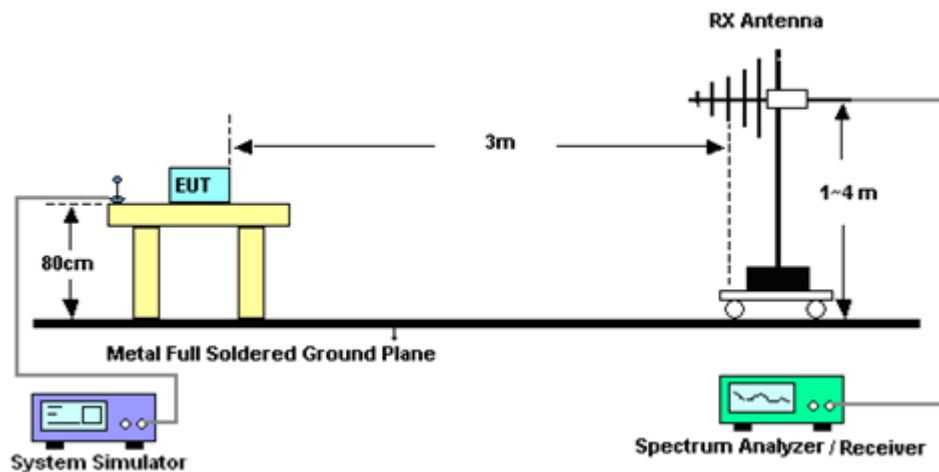
See list of measuring instruments of this test report.

4.1.1 Test Setup

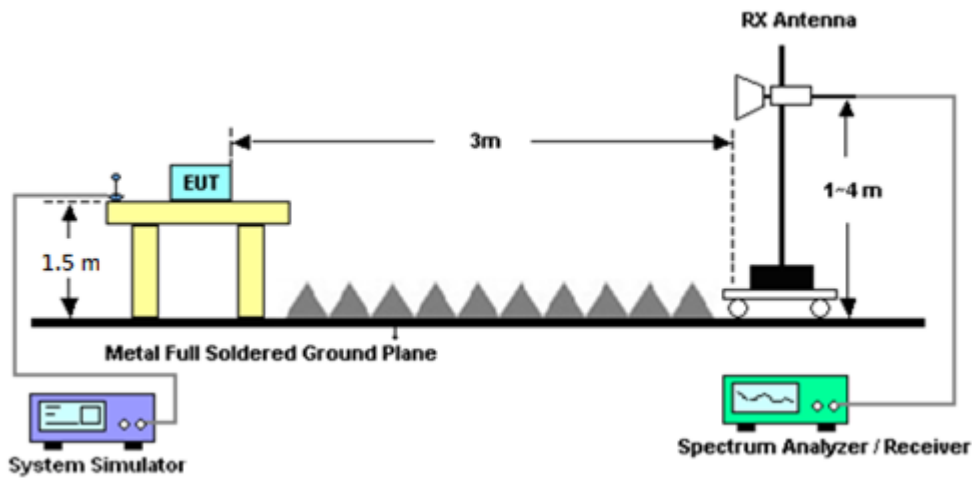
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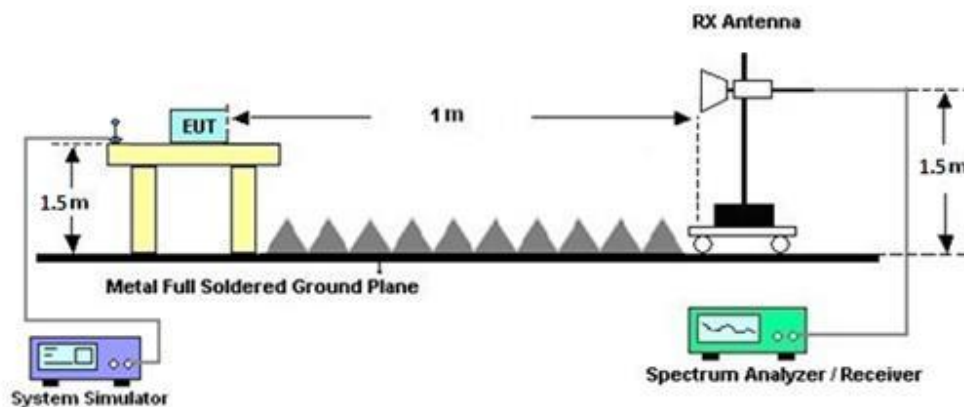
For radiated test from 30MHz to 1GHz



For radiated test from 1GHz to 18GHz



For radiated test above 18GHz



4.1.2 Test Result of Radiated Test

Please refer to Appendix A.

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.



4.2 Radiated Spurious Emission Measurement

4.2.1 Description of Radiated Spurious Emission Measurement

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 7, 38, 41

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 $55 + 10 \log (P)$ 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.



4.2.2 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.
$$\text{ERP (dBm)} = \text{EIRP (dBm)} - 2.15$$



5 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
LOOP Antenna	Rohde & Schwarz	HFH2-Z2	100315	9 kHz~30 MHz	Mar. 16, 2026	Jun. 23, 2026 ~ Jul. 30, 2026	Mar. 15, 2027	Radiation (03CH21-HY)
Bilog Antenna	TESEQ & WOKEN	CBL 6111D & 00802N1D-06	63303 & 001	30MHz~1GHz	Nov. 26, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Nov. 25, 2026	Radiation (03CH21-HY)
Double Ridged Guide Horn Antenna	RFSPIN	DRH18-E	LE2C03 A18EN	1GHz~18GHz	Aug. 07, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Aug. 06, 2026	Radiation (03CH21-HY)
SHF-EHF Horn Antenna	SCHWARZBEC K	BBHA 9170	1450	18GHz~40GHz	May. 28, 2026	Jun. 23, 2026 ~ Jul. 30, 2026	May. 27, 2027	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	421580	30MHz~1GHz	Jul. 13, 2025	Jun. 23, 2026 ~ Jul. 11, 2026	Jul. 12, 2026	Radiation (03CH21-HY)
Amplifier	SONOMA	310N	371607	30MHz~1GHz	Jun. 29, 2026	Jul. 12, 2026 ~ Jul. 30, 2026	Jun. 28, 2027	Radiation (03CH21-HY)
Amplifier	EMEC	EM01G18GA	060876	1GHz~18GHz	Sep. 26, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Sep. 25, 2026	Radiation (03CH21-HY)
Preamplifier	EMEC	EM18G40G	060873	18GHz~40GHz	Aug. 26, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Aug. 25, 2026	Radiation (03CH21-HY)
EXA Signal Analyzer	Keysight	N9010B	MY6217 0358	10Hz~44GHz	Sep. 09, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Sep. 08, 2026	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	803951/ 2	9kHz~30MHz	Mar. 04, 2026	Jun. 23, 2026 ~ Jul. 30, 2026	Mar. 03, 2027	Radiation (03CH21-HY)
RF Cable	HUBER + SUHNER	SUCOFLEX 102	804397/ 2,80461 2/2,803 954/2	30MHz~40GHz	Aug. 11, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Aug. 10, 2026	Radiation (03CH21-HY)
RF Cable	EMCI	EMC101Y-KM-KM -1000	240906	30MHz~40GHz	Oct. 21, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Hygrometer	TECPEL	DTM-303A	TP2115 68	N/A	Oct. 21, 2025	Jun. 23, 2026 ~ Jul. 30, 2026	Oct. 20, 2026	Radiation (03CH21-HY)
Controller	EMEC	EM 1000	N/A	Control Turn table & Ant Mast	N/A	Jun. 23, 2026 ~ Jul. 30, 2026	N/A	Radiation (03CH21-HY)
Antenna Mast	EMEC	AM-BS-4500-B	N/A	1~4m	N/A	Jun. 23, 2026 ~ Jul. 30, 2026	N/A	Radiation (03CH21-HY)
Turn Table	EMEC	TT 2000	N/A	0~360 Degree	N/A	Jun. 23, 2026 ~ Jul. 30, 2026	N/A	Radiation (03CH21-HY)
Software	Audix	E3 6.2009-8-24	RK-001 053	N/A	N/A	Jun. 23, 2026 ~ Jul. 30, 2026	N/A	Radiation (03CH21-HY)



6 Measurement Uncertainty

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

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	6.4 dB
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Uncertainty of Radiated Emission Measurement (1 GHz ~ 18 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	4.8 dB
---	--------

Uncertainty of Radiated Emission Measurement (18 GHz ~ 40 GHz)

Measuring Uncertainty for a Level of Confidence of 95% ($U = 2Uc(y)$)	5.3 dB
---	--------



Appendix A. Radiated Spurious Emission Test Data

Test Engineer :	Jack Cheng, Ray Lung	Temperature :	21.1 ~ 25.7°C
		Relative Humidity :	55.8 ~ 63.2%

A1.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
44	LTE B25	Part 24E	M	5627	-52.51	RMS	33.01	-21.84	1.53	-95.23	30.02	-13.00	-39.51	H	4
45	LTE CA 2C	Part 24E	M	7516	-54.30	RMS	36.67	-21.17	1.55	-95.23	23.88	-13.00	-41.30	V	4
34	LTE B41	Part 27M	M	7752	-51.08	RMS	36.60	-21.38	1.56	-95.23	27.37	-25.00	-26.08	H	0
56	LTE B7	Part 27M	M	7578	-46.20	RMS	36.60	-21.20	1.61	-95.23	32.02	-25.00	-21.20	H	4
57	LTE CA 7C	Part 27M	M	7602	-39.33	RMS	36.60	-21.22	1.63	-95.23	38.89	-25.00	-14.33	V	4
58	LTE B41	Part 27M	M	7752	-37.81	RMS	36.60	-21.38	1.56	-95.23	40.64	-25.00	-12.81	H	4
59	LTE CA 41C	Part 27M	M	7776	-45.91	RMS	36.60	-21.40	1.55	-95.23	32.57	-25.00	-20.91	V	4
50	LTE B4	Part 27L	M	5184	-53.27	RMS	32.50	-21.71	2.02	-95.23	29.15	-13.00	-40.27	H	3
51	LTE CA 66C	Part 27L	M	5262	-43.99	RMS	32.38	-21.74	1.88	-95.23	38.72	-13.00	-30.99	H	4
67	LTE B42	Part 27Q	M	13964	-26.78	RMS	40.73	-22.27	2.23	-95.23	47.76	-13.00	-13.78	V	2
68	LTE B42	Part 27Q	M	13964	-30.63	RMS	40.73	-22.27	2.23	-95.23	43.91	-13.00	-17.63	V	0
69	LTE CA 42C	Part 27Q	M	13996	-31.98	RMS	40.79	-22.28	2.23	-95.23	42.51	-13.00	-18.98	V	2
70	LTE CA 42C	Part 27Q	M	10497	-40.66	RMS	37.29	-21.83	1.80	-95.23	37.31	-13.00	-27.66	H	0
8	LTE B26	Part 90S	M	1634	-50.32	RMS	24.64	-25.15	1.07	-95.23	44.35	-13.00	-37.32	H	1

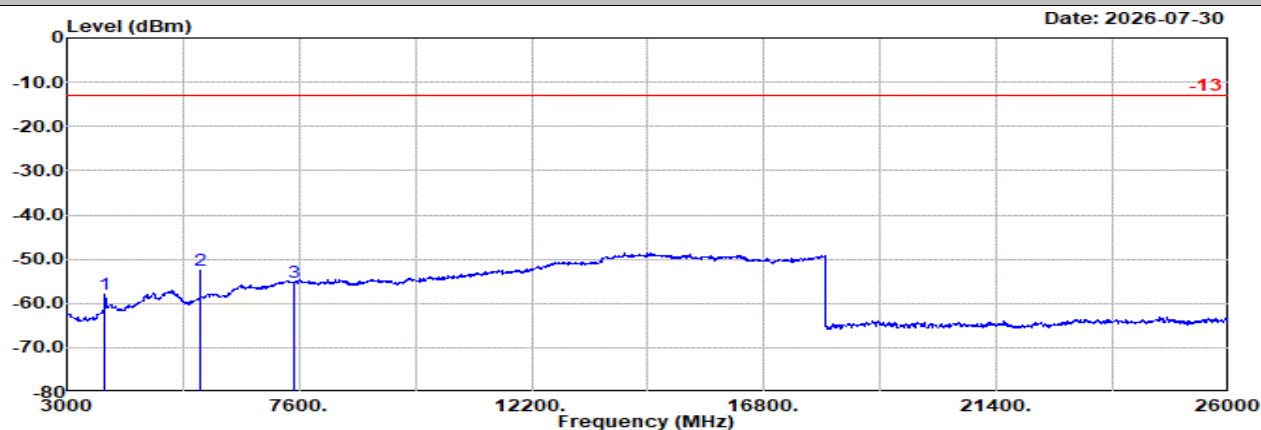


Ant. 4

Part 24E Mode 44

LTE B25 10M Ch26340 1RB0 QPSK

M

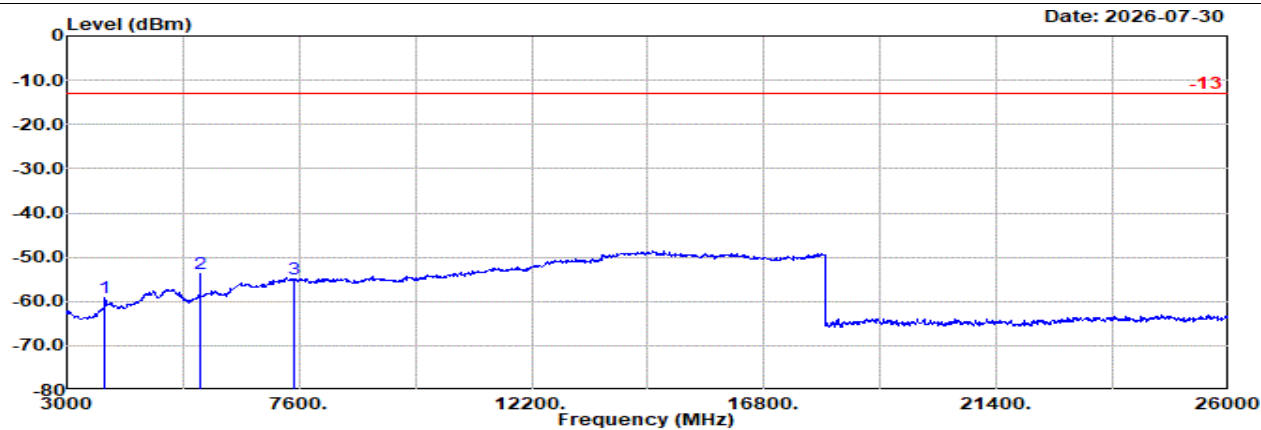


Site : 03CH21-HY

Condition: -13 3m DRH18-E_LE2C03A18EN_250807 Horizontal

: LTE Band 25 10M Ch26340 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	3751.00	-57.83	RMS	30.00	-23.64	1.67	-95.23	29.37	-13.00	-44.83	Horizontal
2	5627.00	-52.51	RMS	33.01	-21.84	1.53	-95.23	30.02	-13.00	-39.51	Horizontal
3	7502.00	-55.14	RMS	36.70	-21.16	1.54	-95.23	23.01	-13.00	-42.14	Horizontal



Site : 03CH21-HY

Condition: -13 3m DRH18-E_LE2C03A18EN_250807 Vertical

: LTE Band 25 10M Ch26340 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	3751.00	-59.27	RMS	30.00	-23.64	1.67	-95.23	27.93	-13.00	-46.27	Vertical
2	5627.00	-53.77	RMS	33.01	-21.84	1.53	-95.23	28.76	-13.00	-40.77	Vertical
3	7502.00	-54.98	RMS	36.70	-21.16	1.54	-95.23	23.17	-13.00	-41.98	Vertical

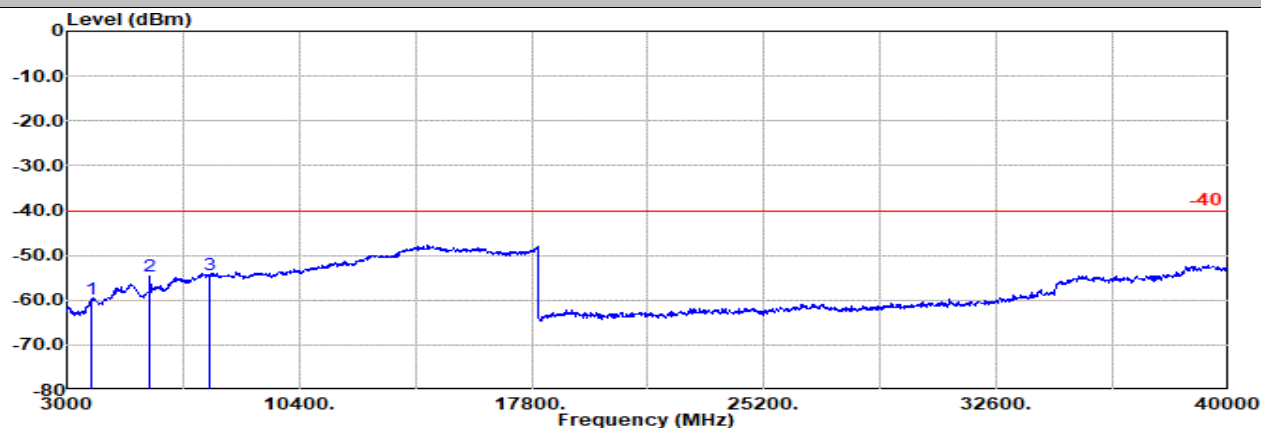


Ant. 4

Part 24E Mode 45

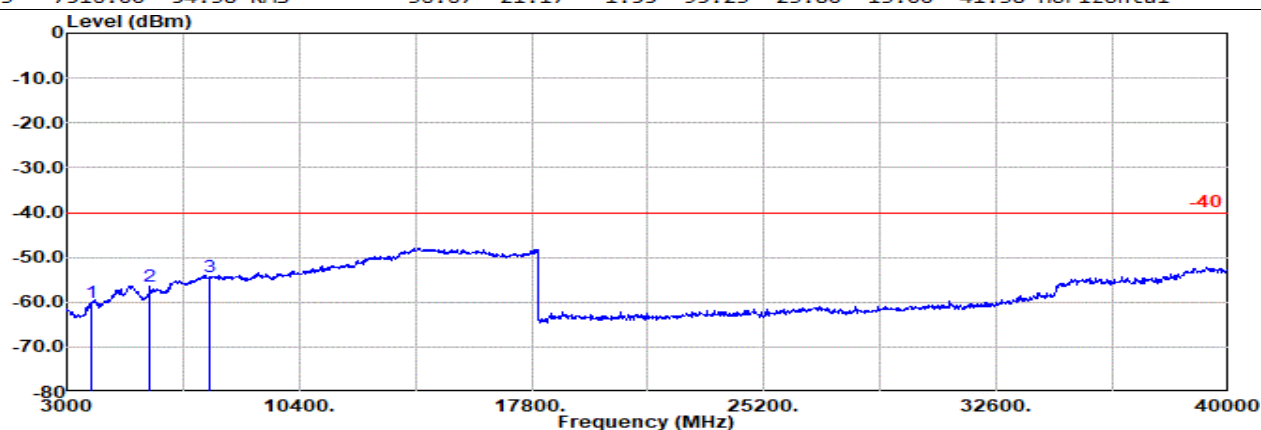
LTE CA 2C 20M + 20M Ch18801 1RB99 QPSK + Ch18999 1RB0 QPSK

M



Site : 03CH21-HY
Condition: -40 1m BBHA9170_1450 Horizontal
: LTE B48 20M Ch55990 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB	
1	3758.00	-59.78	RMS	30.03	-23.62	1.67	-95.23	27.37	-13.00	-46.78	Horizontal		
2	5637.00	-54.64	RMS	33.05	-21.84	1.54	-95.23	27.84	-13.00	-41.64	Horizontal		
3	7516.00	-54.38	RMS	36.67	-21.17	1.55	-95.23	23.80	-13.00	-41.38	Horizontal		



Site : 03CH21-HY
Condition: -40 1m BBHA9170_1450 Vertical
: LTE B48 20M Ch55990 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB		dBuV	dBm	dB	
1	3758.00	-60.04	RMS	30.03	-23.62	1.67	-95.23	27.11	-13.00	-47.04	Vertical		
2	5637.00	-56.37	RMS	33.05	-21.84	1.54	-95.23	26.11	-13.00	-43.37	Vertical		
3	7516.00	-54.30	RMS	36.67	-21.17	1.55	-95.23	23.88	-13.00	-41.30	Vertical		

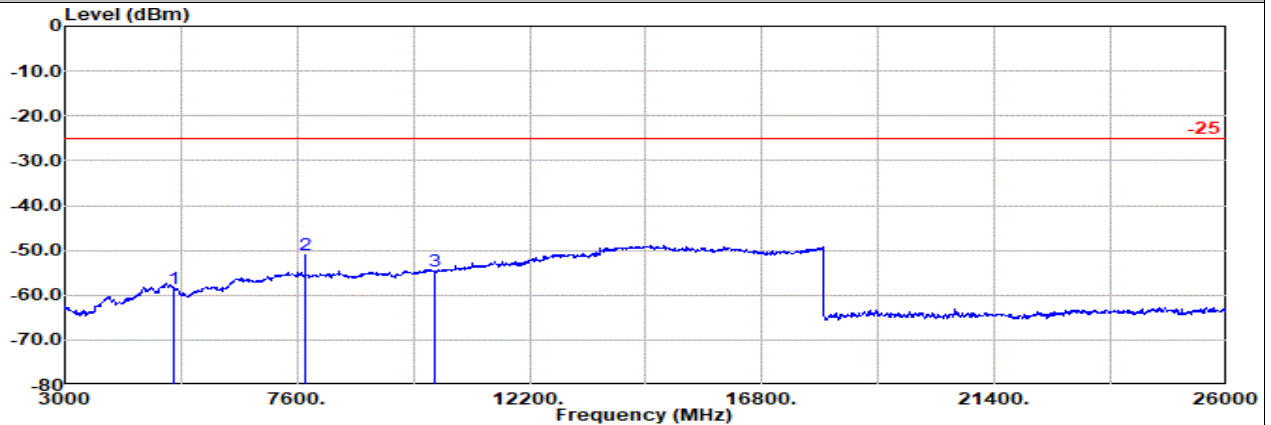


Ant. 0

Part 27M Mode 34

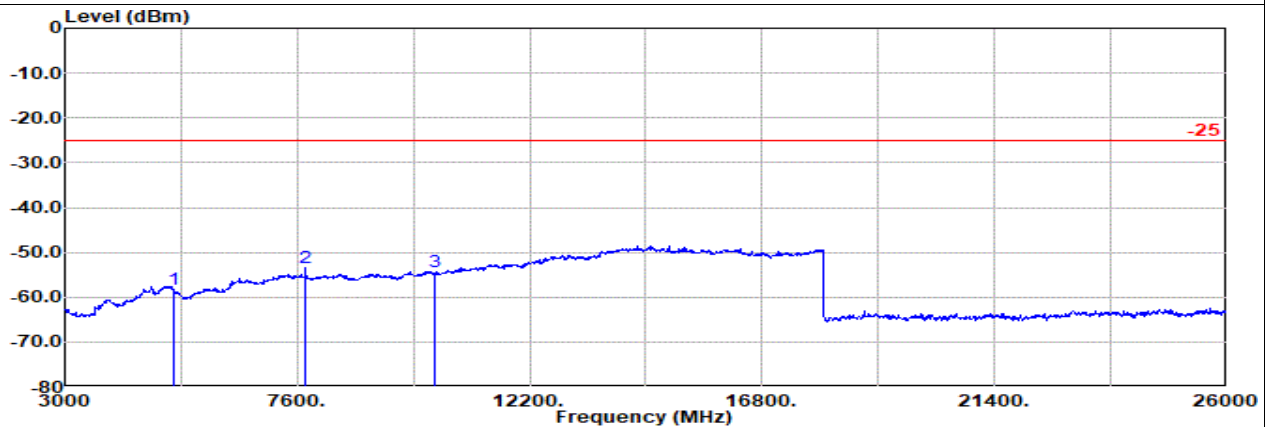
LTE B41 20M Ch40620 1RB0 QPSK

M



Site : 03CH21-HY
Condition: -25 1m BBHA9170_1450 Horizontal
: LTE Band 41 20M Ch40620 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	5168.00	-58.64	RMS	32.50	-21.70	2.04	-95.23	23.75	-25.00	-33.64	Horizontal			
2	7752.00	-51.08	RMS	36.60	-21.38	1.56	-95.23	27.37	-25.00	-26.08	Horizontal			
3	10336.00	-54.58	RMS	37.37	-21.73	1.71	-95.23	23.30	-25.00	-29.58	Horizontal			



Site : 03CH21-HY
Condition: -25 1m BBHA9170_1450 Vertical
: LTE Band 41 20M Ch40620 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter 1		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	5168.00	-58.29	RMS	32.50	-21.70	2.04	-95.23	24.10	-25.00	-33.29	Vertical			
2	7752.00	-53.47	RMS	36.60	-21.38	1.56	-95.23	24.98	-25.00	-28.47	Vertical			
3	10336.00	-54.46	RMS	37.37	-21.73	1.71	-95.23	23.42	-25.00	-29.46	Vertical			

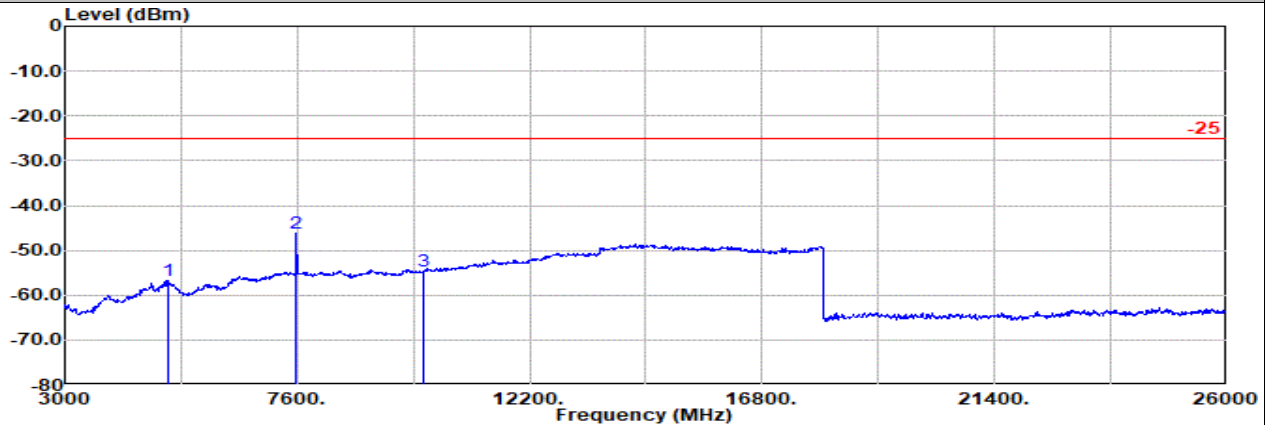


Ant. 4

Part 27M Mode 56

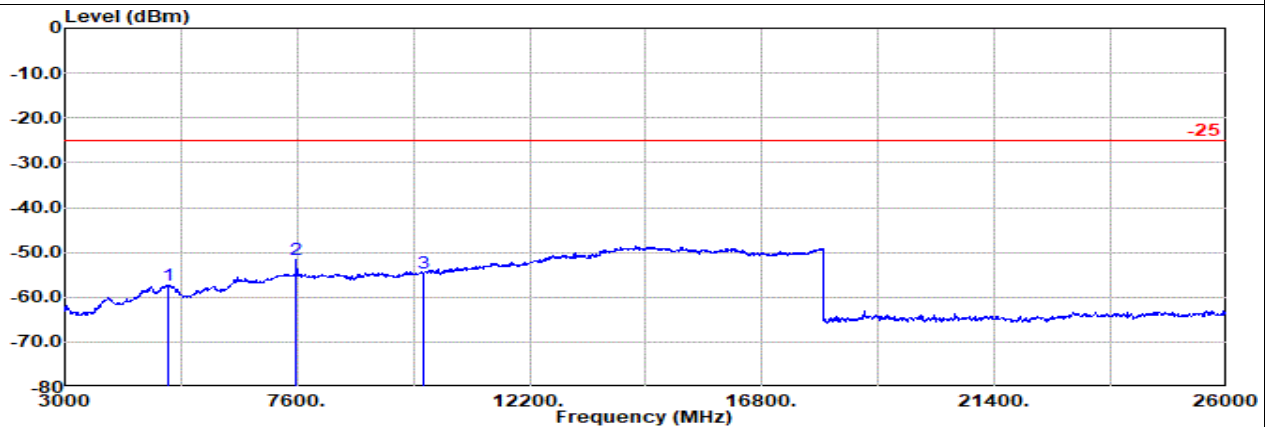
LTE B7 20M Ch21100 1RB0 QPSK

M



Site : 03CH21-HY
Condition: -25 1m BBHA9170_1450 Horizontal
: LTE Band 7 20M Ch21100 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	5052.00	-56.81	RMS	32.69	-21.62	2.20	-95.23	25.15	-25.00	-31.81	Horizontal			
2	7578.00	-46.20	RMS	36.60	-21.20	1.61	-95.23	32.02	-25.00	-21.20	Horizontal			
3	10104.00	-54.65	RMS	37.11	-21.60	1.67	-95.23	23.40	-25.00	-29.65	Horizontal			



Site : 03CH21-HY
Condition: -25 1m BBHA9170_1450 Vertical
: LTE Band 7 20M Ch21100 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter 1		EIRPCF	Reading	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	5052.00	-57.38	RMS	32.69	-21.62	2.20	-95.23	24.58	-25.00	-32.38	Vertical			
2	7578.00	-51.59	RMS	36.60	-21.20	1.61	-95.23	26.63	-25.00	-26.59	Vertical			
3	10104.00	-54.68	RMS	37.11	-21.60	1.67	-95.23	23.37	-25.00	-29.68	Vertical			

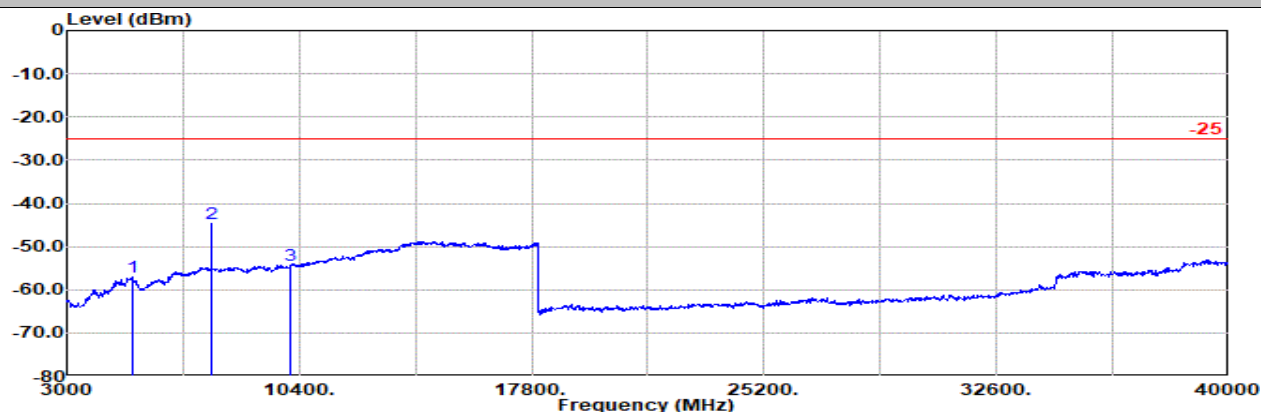


Ant. 4

Part 27M Mode 57

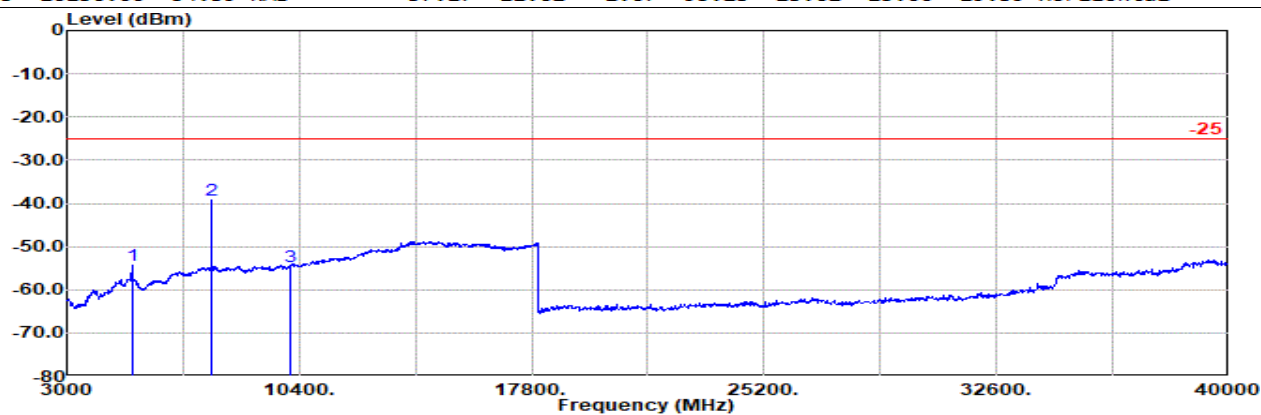
LTE CA 7C 20M + 20M Ch21001 1RB99 QPSK + Ch21199 1RB0 QPSK

M



Site : 03CH21-HY
Condition: -25 1m BBHA9170_1450 Horizontal
: LTE Band 7 20M Ch21001 1RB99 QPSK
: LTE Band 7 20M Ch21199 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin Limit		Margin Pol	
	MHz	dBm		Factor	1		g			
1	5068.00	-57.18	RMS	32.63	-21.63	2.18	-95.23	24.87	-25.00	-32.18 Horizontal
2	7602.00	-44.55	RMS	36.60	-21.22	1.63	-95.23	33.67	-25.00	-19.55 Horizontal
3	10136.00	-54.39	RMS	37.17	-21.62	1.67	-95.23	23.62	-25.00	-29.39 Horizontal



Site : 03CH21-HY
Condition: -25 1m BBHA9170_1450 Vertical
: LTE Band 7 20M Ch21001 1RB99 QPSK
: LTE Band 7 20M Ch21199 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin Limit		Margin Pol	
	MHz	dBm		Factor	1		g			
1	5068.00	-54.24	RMS	32.63	-21.63	2.18	-95.23	27.81	-25.00	-29.24 Vertical
2	7602.00	-39.33	RMS	36.60	-21.22	1.63	-95.23	38.89	-25.00	-14.33 Vertical
3	10136.00	-54.53	RMS	37.17	-21.62	1.67	-95.23	23.48	-25.00	-29.53 Vertical

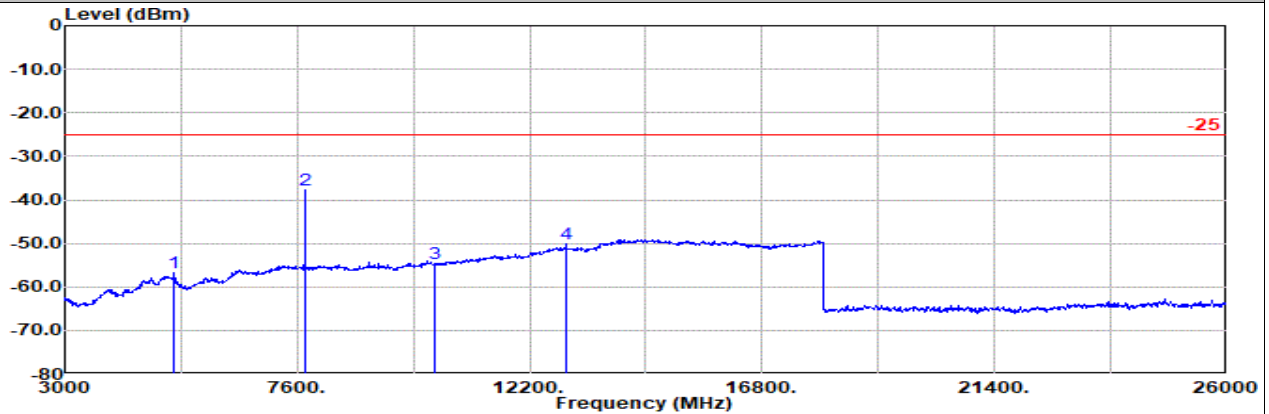


Ant. 4

Part 27M Mode 58

LTE B41 20M Ch40620 1RB0 QPSK

M

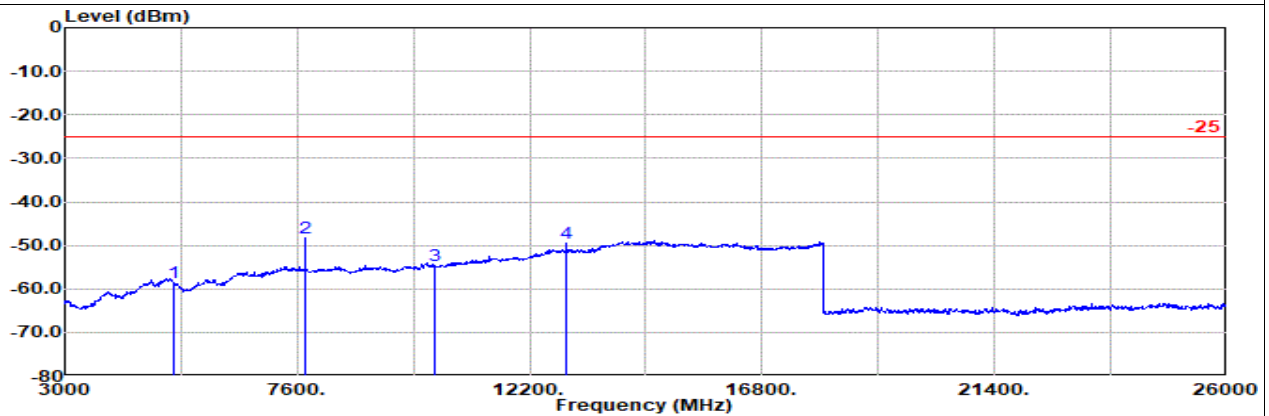


Site : 03CH21-HY

Condition: -25 1m BBHA9170_1223_250702 Horizontal

: LTE Band 41 20M Ch40620 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	5168.00	-56.88	RMS	32.50	-21.70	2.04	-95.23	25.51	-25.00	-31.88	Horizontal
2	7752.00	-37.81	RMS	36.60	-21.38	1.56	-95.23	40.64	-25.00	-12.81	Horizontal
3	10336.00	-54.78	RMS	37.37	-21.73	1.71	-95.23	23.10	-25.00	-29.78	Horizontal
4	12930.00	-50.23	RMS	40.02	-21.30	2.22	-95.23	24.06	-25.00	-25.23	Horizontal



Site : 03CH21-HY

Condition: -25 1m BBHA9170_1223_250702 Vertical

: LTE Band 41 20M Ch40620 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm									
1	5168.00	-58.42	RMS	32.50	-21.70	2.04	-95.23	23.97	-25.00	-33.42	Vertical
2	7752.00	-48.28	RMS	36.60	-21.38	1.56	-95.23	30.17	-25.00	-23.28	Vertical
3	10336.00	-54.55	RMS	37.37	-21.73	1.71	-95.23	23.33	-25.00	-29.55	Vertical
4	12930.00	-49.38	RMS	40.02	-21.30	2.22	-95.23	24.91	-25.00	-24.38	Vertical

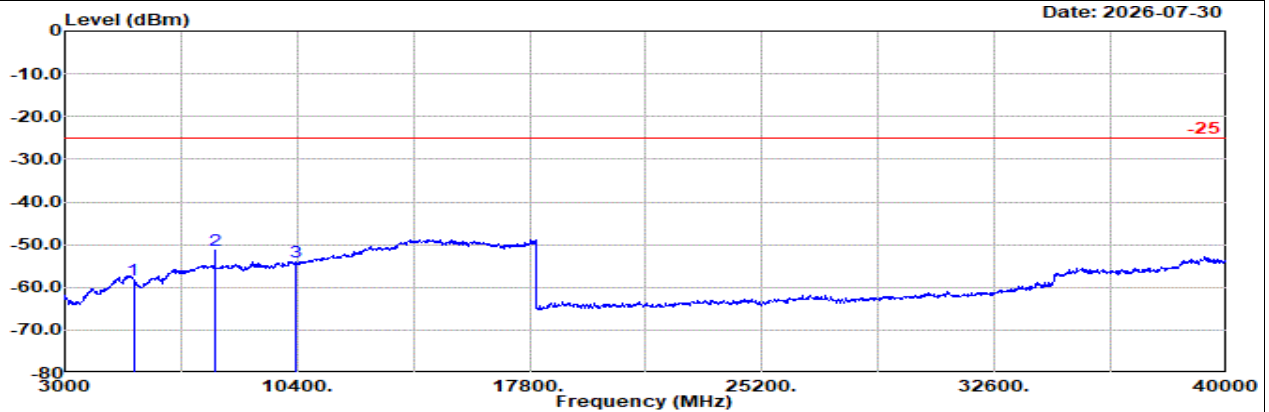


Ant. 4

Part 27M Mode 59

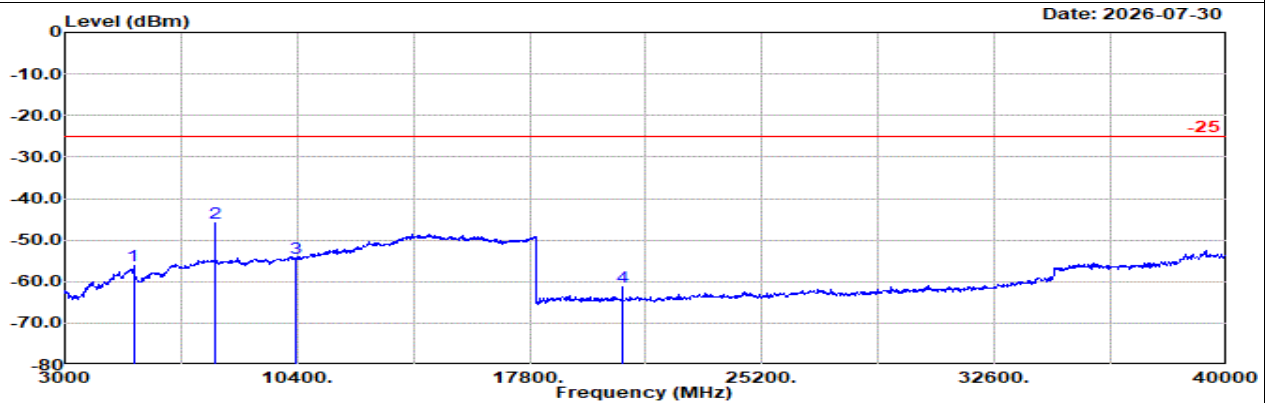
LTE CA 41C 20M + 20M Ch40521 1RB99 QPSK + Ch40719 1RB0 QPSK

M



Site : 03CH21-HY
Condition: -25 3m DRH18-E_LE2C03A18EN_250807 Horizontal
: LTE Band 41 20M Ch40521 1RB99 QPSK
: LTE Band 41 20M Ch40719 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	dB	dBuV	dBm	dB	
1	5184.00	-58.17	RMS	32.50	-21.71	2.02	-95.23	24.25	-25.00	-33.17	Horizontal	
2	7776.00	-51.33	RMS	36.60	-21.40	1.55	-95.23	27.15	-25.00	-26.33	Horizontal	
3	10368.00	-54.14	RMS	37.33	-21.75	1.72	-95.23	23.79	-25.00	-29.14	Horizontal	



Site : 03CH21-HY
Condition: -25 3m DRH18-E_LE2C03A18EN_250807 Vertical
: LTE Band 41 20M Ch40521 1RB99 QPSK
: LTE Band 41 20M Ch40719 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	dB	dBuV	dBm	dB	
1	5184.00	-56.26	RMS	32.50	-21.71	2.02	-95.23	26.16	-25.00	-31.26	Vertical	
2	7776.00	-45.91	RMS	36.60	-21.40	1.55	-95.23	32.57	-25.00	-20.91	Vertical	
3	10368.00	-54.27	RMS	37.33	-21.75	1.72	-95.23	23.66	-25.00	-29.27	Vertical	
4	20750.00	-61.18	RMS	38.60	-35.65	-9.54	-95.23	40.65	-25.00	-36.18	Vertical	

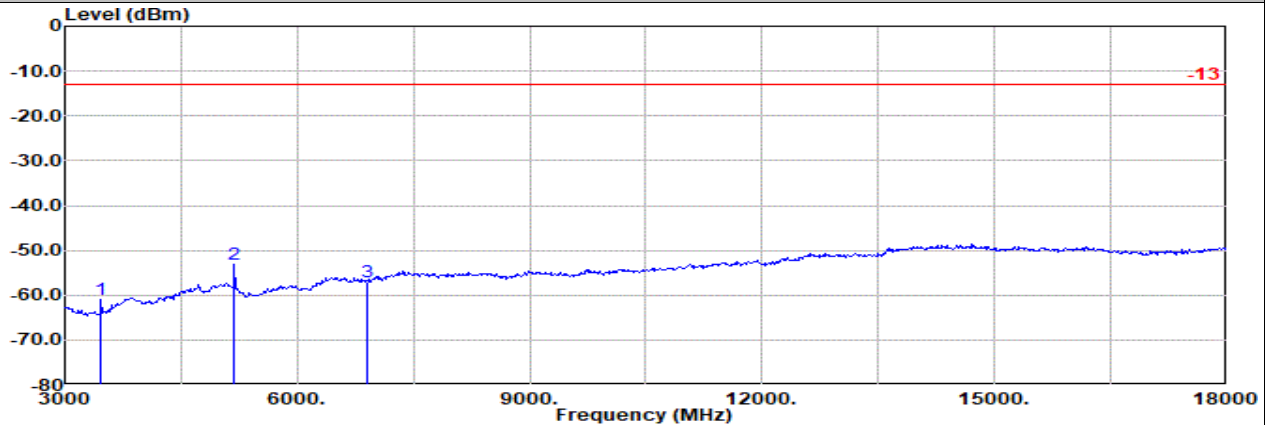


Ant. 3

Part 27L Mode 50

LTE B4 10M Ch20175 1RB0 QPSK

M

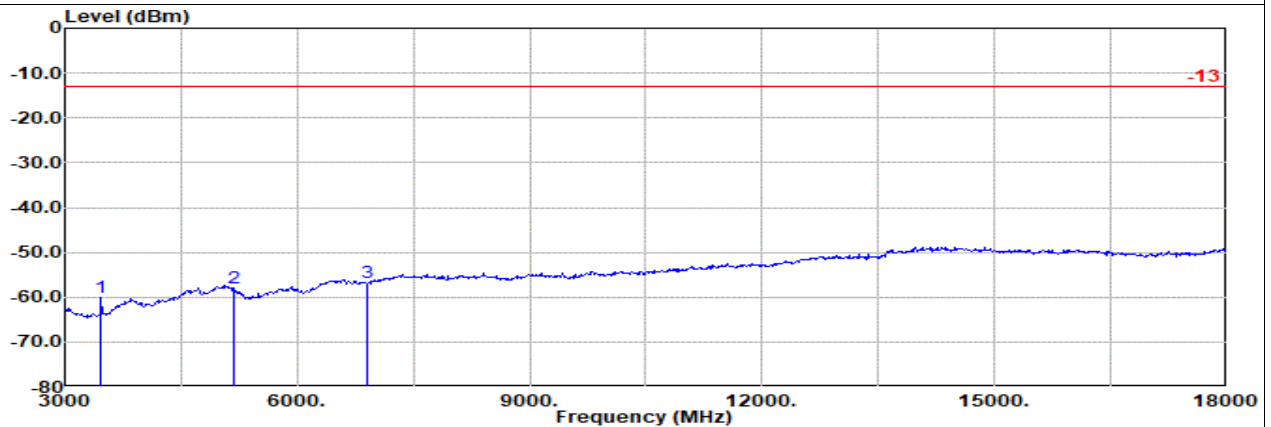


Site : 03CH21-HY

Condition: -13 3m DRH18-E_LE2C03A18EN_250807 Horizontal

: LTE Band 4 10M Ch20175 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3456.00	-60.87	RMS	28.44	-23.98	1.85	-95.23	28.05	-13.00	-47.87	Horizontal			
2	5184.00	-53.27	RMS	32.50	-21.71	2.02	-95.23	29.15	-13.00	-40.27	Horizontal			
3	6912.00	-57.09	RMS	36.02	-21.57	1.45	-95.23	22.24	-13.00	-44.09	Horizontal			



Site : 03CH21-HY

Condition: -13 3m DRH18-E_LE2C03A18EN_250807 Vertical

: LTE Band 4 10M Ch20175 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	3456.00	-60.07	RMS	28.44	-23.98	1.85	-95.23	28.85	-13.00	-47.07	Vertical			
2	5184.00	-58.02	RMS	32.50	-21.71	2.02	-95.23	24.40	-13.00	-45.02	Vertical			
3	6912.00	-56.88	RMS	36.02	-21.57	1.45	-95.23	22.45	-13.00	-43.88	Vertical			

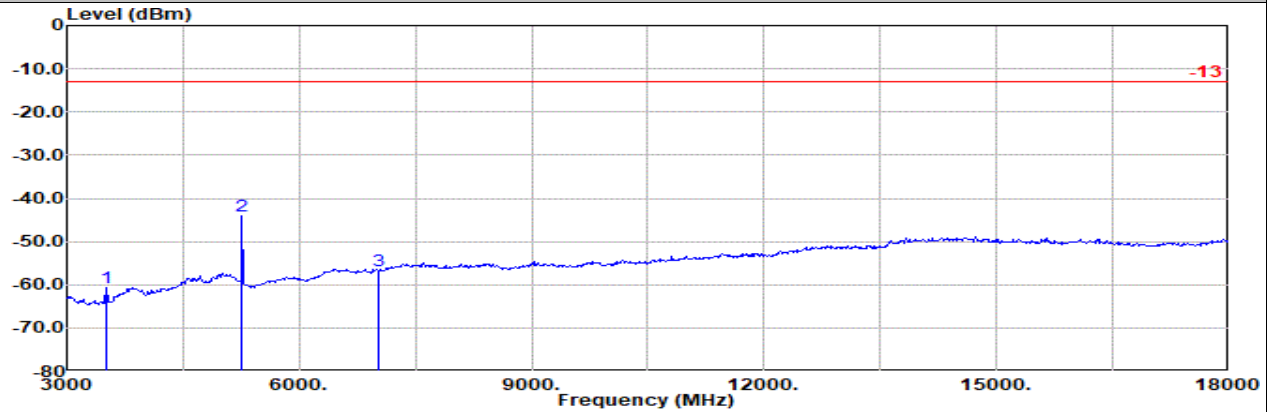


Ant. 4

Part 27L Mode 51

LTE CA 66C 20M + 20M Ch132323 1RB99 QPSK + Ch132521 1RB0 QPSK

M



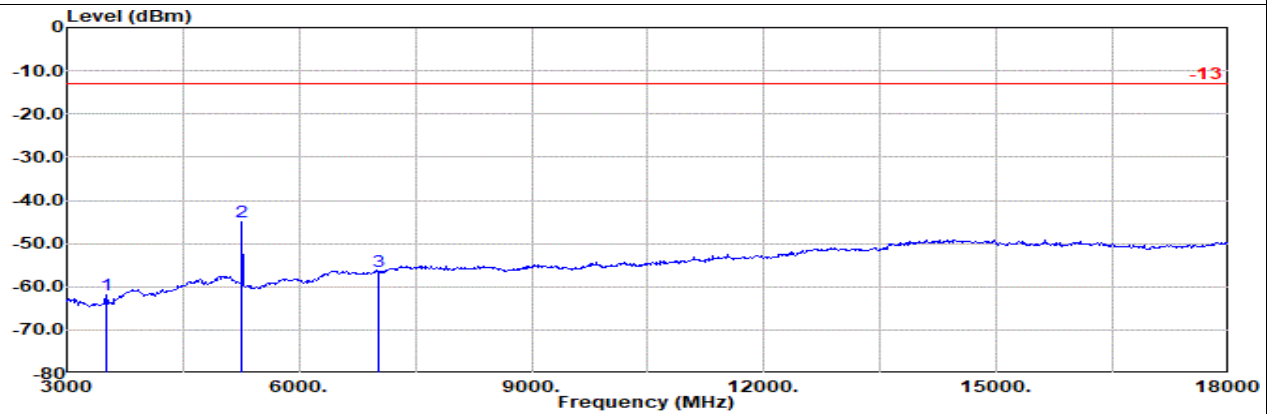
Site : 03CH21-HY

Condition: -13 3m DRH18-E_LE2C03A18EN_250807 Horizontal

: LTE Band 66 20M Ch132323 1RB99 QPSK

: LTE Band 66 20M Ch132521 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin Limit		Margin Pol	
	MHz	dBm		Factor	1		g			
1	3508.00	-60.80	RMS	28.76	-24.04	1.79	-95.23	27.92	-13.00	-47.80 Horizontal
2	5262.00	-43.99	RMS	32.38	-21.74	1.88	-95.23	38.72	-13.00	-30.99 Horizontal
3	7016.00	-56.68	RMS	36.17	-21.59	1.42	-95.23	22.55	-13.00	-43.68 Horizontal



Site : 03CH21-HY

Condition: -13 3m DRH18-E_LE2C03A18EN_250807 Vertical

: LTE Band 66 20M Ch132323 1RB99 QPSK

: LTE Band 66 20M Ch132521 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		EIRPCF	Readin Limit		Margin Pol	
	MHz	dBm		Factor	1		g			
1	3508.00	-62.03	RMS	28.76	-24.04	1.79	-95.23	26.69	-13.00	-49.03 Vertical
2	5262.00	-44.88	RMS	32.38	-21.74	1.88	-95.23	37.83	-13.00	-31.88 Vertical
3	7016.00	-56.45	RMS	36.17	-21.59	1.42	-95.23	22.78	-13.00	-43.45 Vertical

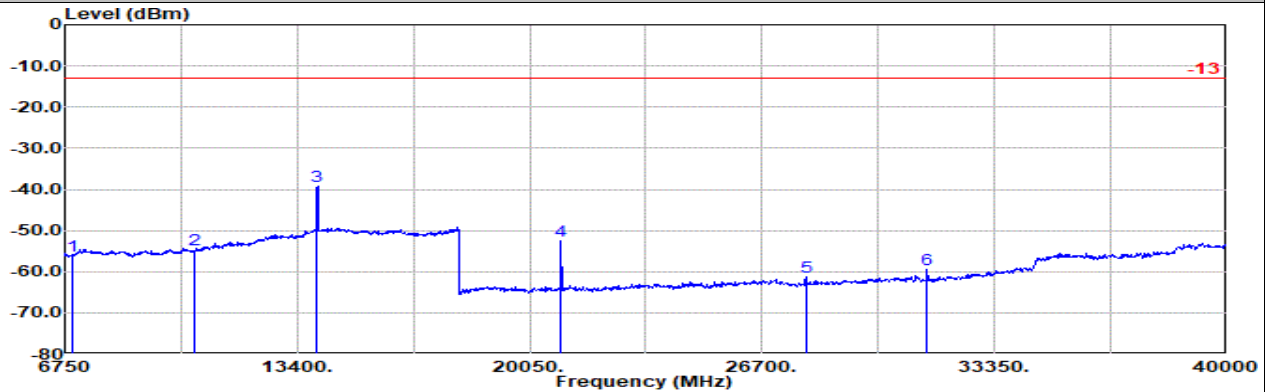


Ant. 2

Part 27Q Mode 67

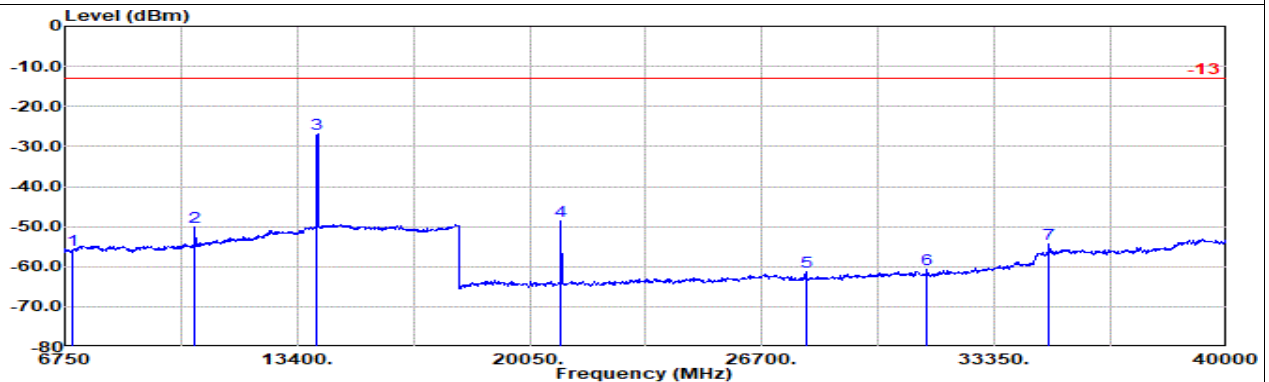
LTE B42 20M Ch42590 1RB0 QPSK

M



Site : 03CH21-HY
Condition: -13 1m BBHA9170_1450 Horizontal
: LTE Band 42 20M Ch42590 1RB0 QPSK

Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB
1	6982.00	-56.04 RMS	36.16	-21.59	1.97	-95.23	22.65	-13.00	-43.04	Horizontal
2	10473.00	-54.51 RMS	37.25	-21.81	1.80	-95.23	23.48	-13.00	-41.51	Horizontal
3	13964.00	-39.20 RMS	40.73	-22.27	2.23	-95.23	35.34	-13.00	-26.20	Horizontal
4	20948.00	-52.62 RMS	38.61	-35.48	-9.54	-95.23	49.02	-13.00	-39.62	Horizontal
5	27944.00	-61.37 RMS	40.22	-30.98	-9.54	-95.23	34.16	-13.00	-48.37	Horizontal
6	31420.00	-59.62 RMS	41.16	-28.85	-9.54	-95.23	32.84	-13.00	-46.62	Horizontal



Site : 03CH21-HY
Condition: -13 1m BBHA9170_1450 Vertical
: LTE Band 42 20M Ch42590 1RB0 QPSK

Freq	Level	Detector	Ant Factor	Amp\Cb	Filter 1	EIRPCF	Readin g	Limit	Margin	Pol
MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB
1	6982.00	-55.87 RMS	36.16	-21.59	1.97	-95.23	22.82	-13.00	-42.87	Vertical
2	10473.00	-50.18 RMS	37.25	-21.81	1.80	-95.23	27.81	-13.00	-37.18	Vertical
3	13964.00	-26.78 RMS	40.73	-22.27	2.23	-95.23	47.76	-13.00	-13.78	Vertical
4	20948.00	-48.74 RMS	38.61	-35.48	-9.54	-95.23	52.90	-13.00	-35.74	Vertical
5	27944.00	-61.39 RMS	40.22	-30.98	-9.54	-95.23	34.14	-13.00	-48.39	Vertical
6	31420.00	-60.56 RMS	41.16	-28.85	-9.54	-95.23	31.90	-13.00	-47.56	Vertical
7	34918.00	-54.23 RMS	42.78	-24.51	-9.54	-95.23	32.27	-13.00	-41.23	Vertical

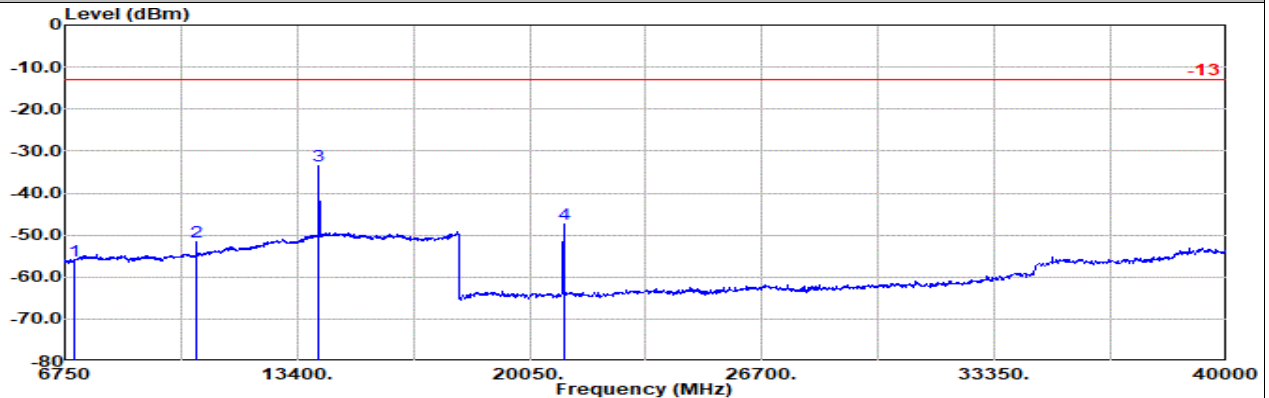


Ant. 2

Part 27Q Mode 69

LTE CA 42C 20M + 20M Ch42491 1RB99 QPSK + Ch42689 1RB0 QPSK

M



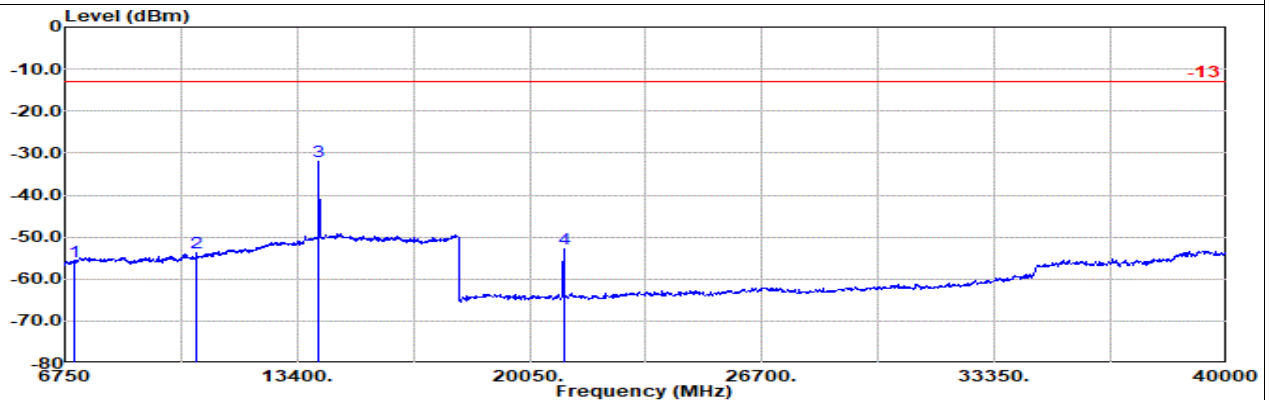
Site : 03CH21-HY

Condition: -13 1m BBHA9170_1450 Horizontal

: LTE Band 42 20M Ch42491 1RB0 QPSK

: LTE Band 42 20M Ch42689 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB
1	6998.00	-56.04	RMS	36.20	-21.60	1.93	-95.23	22.66	-13.00	-43.04	Horizontal
2	10497.00	-51.53	RMS	37.29	-21.83	1.80	-95.23	26.44	-13.00	-38.53	Horizontal
3	13996.00	-33.55	RMS	40.79	-22.28	2.23	-95.23	40.94	-13.00	-20.55	Horizontal
4	21014.00	-47.48	RMS	38.77	-35.41	-9.54	-95.23	53.93	-13.00	-34.48	Horizontal



Site : 03CH21-HY

Condition: -13 1m BBHA9170_1450 Vertical

: LTE Band 42 20M Ch42491 1RB0 QPSK

: LTE Band 42 20M Ch42689 1RB0 QPSK

	Freq	Level	Detector	Ant Factor	Amp\Cb 1	Filter	EIRPCF	Readin g	Limit	Margin	Pol
	MHz	dBm			dB/m	dB	dB	dB	dBuV	dBm	dB
1	6998.00	-55.94	RMS	36.20	-21.60	1.93	-95.23	22.76	-13.00	-42.94	Vertical
2	10497.00	-53.68	RMS	37.29	-21.83	1.80	-95.23	24.29	-13.00	-40.68	Vertical
3	13996.00	-31.98	RMS	40.79	-22.28	2.23	-95.23	42.51	-13.00	-18.98	Vertical
4	21014.00	-52.97	RMS	38.77	-35.41	-9.54	-95.23	48.44	-13.00	-39.97	Vertical

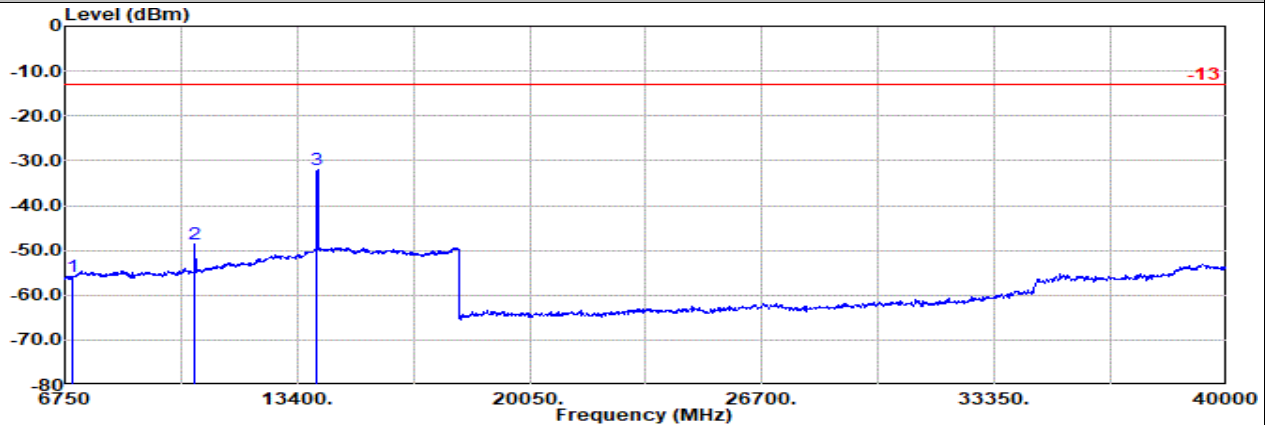


Ant. 0

Part 27Q Mode 68

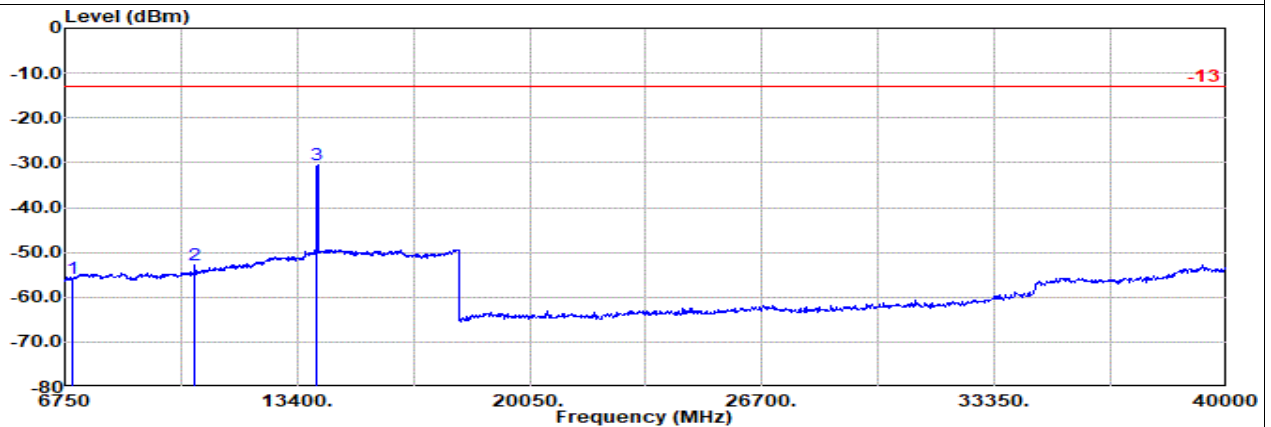
LTE B42 20M Ch42590 1RB0 QPSK

M



Site : 03CH21-HY
Condition: -13 1m BBHA9170_1450 Horizontal
: LTE Band 42 20M Ch42590 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	6982.00	-55.94	RMS	36.16	-21.59	1.97	-95.23	22.75	-13.00	-42.94	Horizontal			
2	10473.00	-48.64	RMS	37.25	-21.81	1.80	-95.23	29.35	-13.00	-35.64	Horizontal			
3	13964.00	-32.12	RMS	40.73	-22.27	2.23	-95.23	42.42	-13.00	-19.12	Horizontal			



Site : 03CH21-HY
Condition: -13 1m BBHA9170_1450 Vertical
: LTE Band 42 20M Ch42590 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	Filter		EIRPCF	Readin g	Limit		Margin	Pol
	MHz	dBm		dB/m	dB		dB	dB			dBuV	dBm	dB	
1	6982.00	-55.89	RMS	36.16	-21.59	1.97	-95.23	22.80	-13.00	-42.89	Vertical			
2	10473.00	-52.98	RMS	37.25	-21.81	1.80	-95.23	25.01	-13.00	-39.98	Vertical			
3	13964.00	-30.63	RMS	40.73	-22.27	2.23	-95.23	43.91	-13.00	-17.63	Vertical			

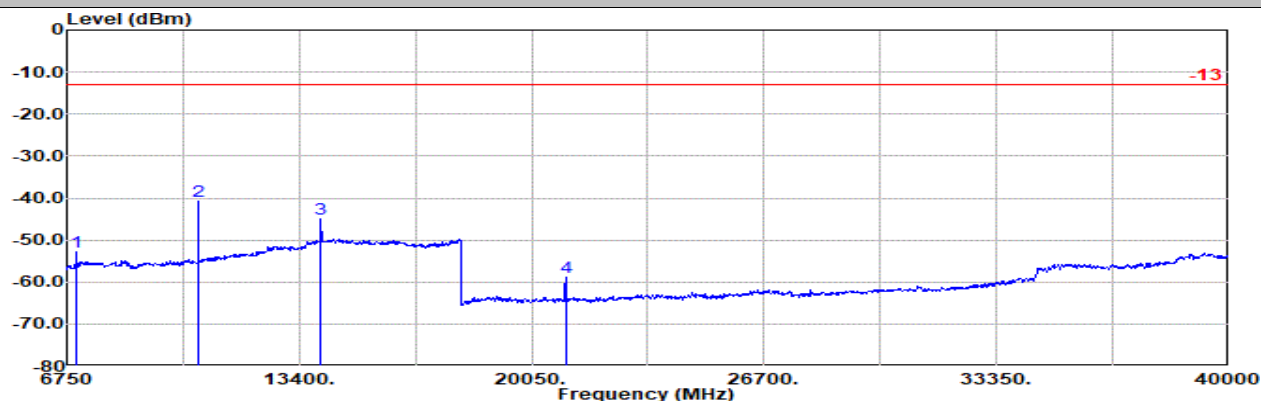


Ant. 0

Part 27Q Mode 70

LTE CA 42C 20M + 20M Ch42491 1RB99 QPSK + Ch42689 1RB0 QPSK

M



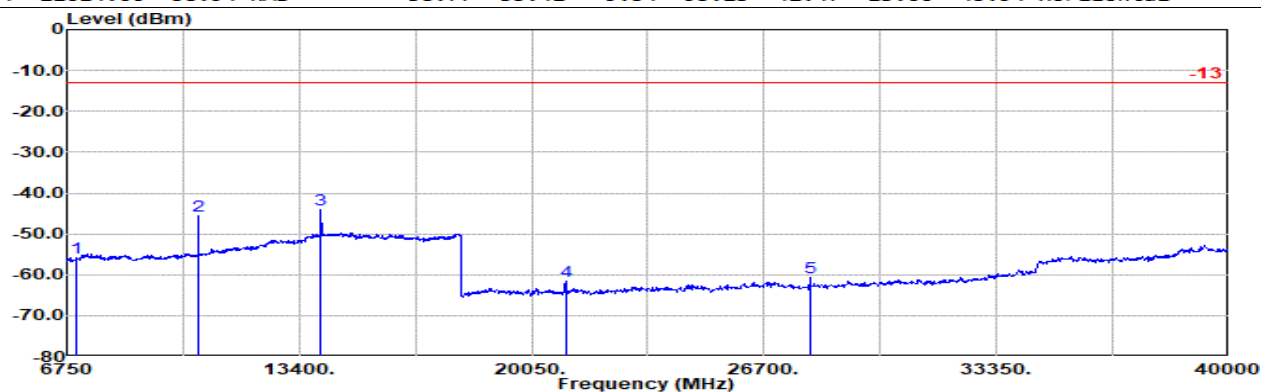
Site : 03CH21-HY

Condition: -13 1m BBHA9170_1450 Horizontal

: LTE Band 42 20M Ch42491 1RB0 QPSK

: LTE Band 42 20M Ch42689 1RB0 QPSK

	Freq MHz	Level dBm	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin g	Limit	Margin	Pol
					dB/m	dB	dB	dB	dBuV	dBm	dB	
1	6998.00	-52.70	RMS	36.20	-21.60	1.93	-95.23	-95.23	26.00	-13.00	-39.70	Horizontal
2	10497.00	-40.66	RMS	37.29	-21.83	1.80	-95.23	-95.23	37.31	-13.00	-27.66	Horizontal
3	13996.00	-44.96	RMS	40.79	-22.28	2.23	-95.23	-95.23	29.53	-13.00	-31.96	Horizontal
4	21014.00	-58.94	RMS	38.77	-35.41	-9.54	-95.23	-95.23	42.47	-13.00	-45.94	Horizontal



Site : 03CH21-HY

Condition: -13 1m BBHA9170_1450 Vertical

: LTE Band 42 20M Ch42491 1RB0 QPSK

: LTE Band 42 20M Ch42689 1RB0 QPSK

	Freq MHz	Level dBm	Detector	Ant Factor	Amp\Cb		Filter	EIRPCF	Readin g	Limit	Margin	Pol
					dB/m	dB	dB	dB	dBuV	dBm	dB	
1	6998.00	-55.79	RMS	36.20	-21.60	1.93	-95.23	-95.23	22.91	-13.00	-42.79	Vertical
2	10497.00	-45.54	RMS	37.29	-21.83	1.80	-95.23	-95.23	32.43	-13.00	-32.54	Vertical
3	13996.00	-44.08	RMS	40.79	-22.28	2.23	-95.23	-95.23	30.41	-13.00	-31.08	Vertical
4	21014.00	-61.65	RMS	38.77	-35.41	-9.54	-95.23	-95.23	39.76	-13.00	-48.65	Vertical
5	28010.00	-60.67	RMS	40.30	-30.97	-9.54	-95.23	-95.23	34.77	-13.00	-47.67	Vertical

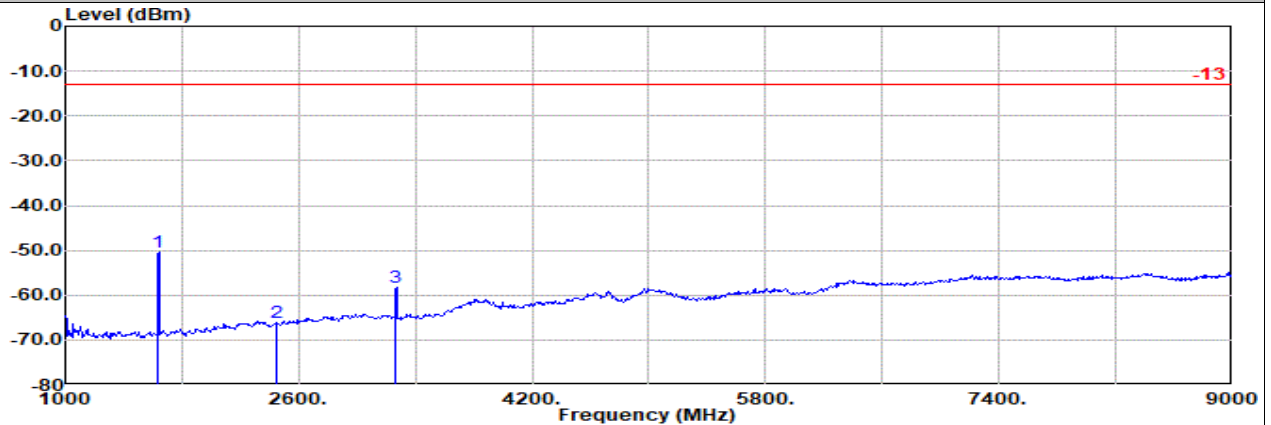


Ant. 1

Part 90S Mode 8

LTE B26 5M Ch26740 1RB0 QPSK

M

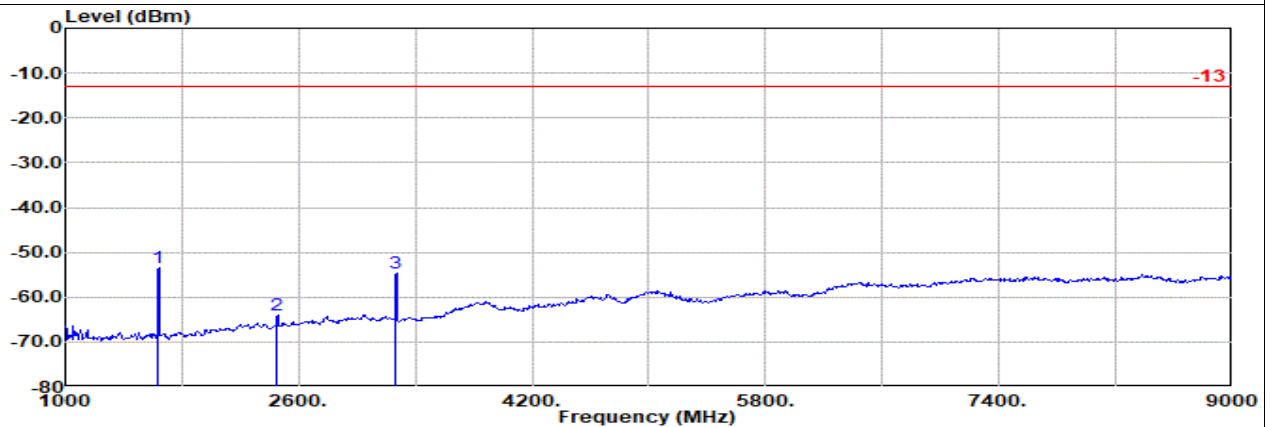


Site : 03CH21-HY

Condition: -13 3m DRH18-E_LE2C03A18EN_250807 Horizontal

: LTE Band 26 5M Ch26740 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	EIRPCF		Readin g	Limit g	Margin Pol	
	MHz	dBm		dB/m	dB		dB	dB			dB	
1	1634.00	-50.32	RMS	24.64	-25.15	1.07	-95.23	44.35	-13.00	-37.32	Horizontal	
2	2451.00	-66.14	RMS	26.79	-24.24	0.91	-95.23	25.63	-13.00	-53.14	Horizontal	
3	3267.00	-58.30	RMS	27.97	-23.81	1.05	-95.23	31.72	-13.00	-45.30	Horizontal	



Site : 03CH21-HY

Condition: -13 3m DRH18-E_LE2C03A18EN_250807 Vertical

: LTE Band 26 5M Ch26740 1RB0 QPSK

	Freq Level		Detector	Ant Amp\Cb Filter		Factor	EIRPCF		Readin g	Limit g	Margin Pol	
	MHz	dBm		dB/m	dB		dB	dB			dB	
1	1634.00	-53.56	RMS	24.64	-25.15	1.07	-95.23	41.11	-13.00	-40.56	Vertical	
2	2451.00	-63.93	RMS	26.79	-24.24	0.91	-95.23	27.84	-13.00	-50.93	Vertical	
3	3267.00	-54.62	RMS	27.97	-23.81	1.05	-95.23	35.40	-13.00	-41.62	Vertical	

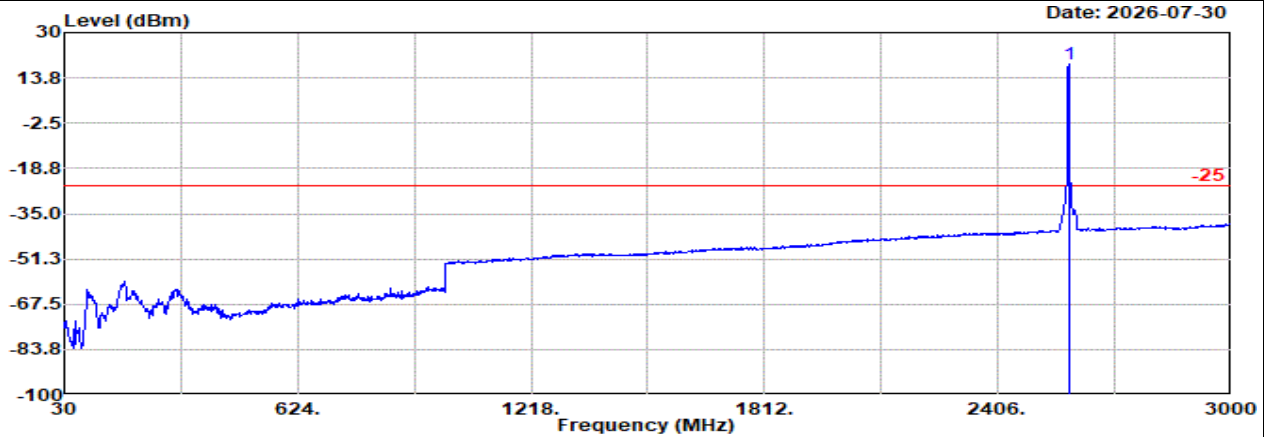


Ant. 4

Part 27M Mode 58

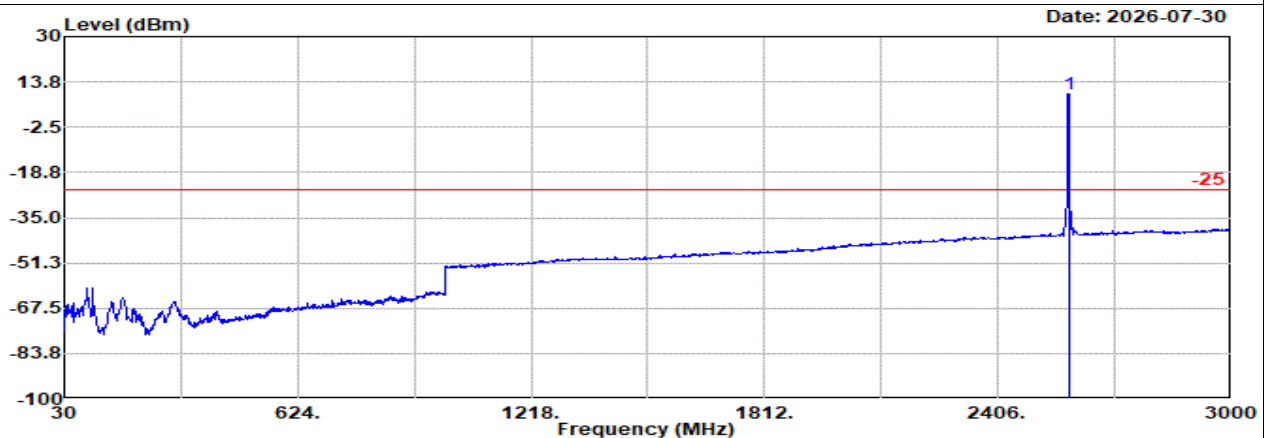
LTE B41 20M Ch40620 1RB0 QPSK

M



Site : 03CH21-HY
Condition: -25 3m LF_63303&001_251126 Horizontal
: LTE Band 41 20M Ch40620 1RB0 QPSK
: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin	Pol
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dBuV	dBm	dB	
1	2586.00	18.62	RMS	27.20	8.87	0.64	-95.23	77.14	-25.00	43.62 Horizontal



Site : 03CH21-HY
Condition: -25 3m LF_63303&001_251126 Vertical
: LTE Band 41 20M Ch40620 1RB0 QPSK
: #1 is fundamental signal which can be ignored.

	Freq	Level	Detector	Ant Amp\Cb Filter		EIRPCF	Readin	Limit	Margin	Pol
				Factor	1					
	MHz	dBm		dB/m	dB	dB	dBuV	dBm	dB	
1	2586.00	9.37	RMS	27.20	8.87	0.64	-95.23	67.89	-25.00	34.37 Vertical



Appendix B. Spot Check Verification Data Section

Conclusion:

Conducted power and radiated spurious emission spot-check measurements were performed on the worst-case channel identified for each band in the reference model (FCC ID: IHDT56AW3) to verify the applicability of the referenced conducted test data in accordance with FCC KDB 484596 D01 Referencing Test Data v03.

The spot-check results demonstrate comparable RF performance between the parent device and the variant device, with all observed differences within the acceptance criterion of 3 dB. Therefore, the referenced test data are considered representative of the variant device.

Test Item	Mode	IHDT56AW3 Parent Worst mode Test Result	IHDT56AW5 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	Average Power (dBm)				
	B2-ANT0	21.98	21.89	0.09	3
	B4-ANT0	22.13	21.89	0.24	3
	B5-ANT0	22.92	21.81	1.11	3
	B7-ANT0	22.85	22.81	0.04	3
	B12-ANT0	23.04	22.85	0.19	3
	B13-ANT0	23.27	22.85	0.42	3
	B14-ANT0	23.29	23.04	0.25	3
	B17-ANT0	23.02	22.84	0.18	3
	B25-ANT0	22.01	21.85	0.16	3
	B26-ANT0	22.93	22.89	0.04	3
	B66-ANT0	22.16	22.03	0.13	3
	B71-ANT0	23.3	22.93	0.37	3
	B38-ANT0	22.88	22.81	0.07	3
	B41-PC2-ANT0	25.85	25.71	0.14	3
	B41-PC3-ANT0	22.9	22.75	0.15	3
	Band2 C-ANT0	21.92	21.86	0.06	3
	Band5 B-ANT0	22.88	22.76	0.12	3
	Band7 C-ANT0	22.76	22.65	0.11	3
	Band66 C-ANT0	22.08	22.03	0.05	3
	Band38 C-Ant0	22.86	22.72	0.14	3
	B41 C-PC3-ANT0	25.64	25.6	0.04	3



Test Item	Mode	IHDT56AW3 Parent Worst mode Test Result	IHDT56AW5 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	Average Power (dBm)				
	B41 C-PC2-ANT0	22.84	22.53	0.31	3
	B5-ANT1	23.2	22.89	0.31	3
	B12-ANT1	23.49	23.24	0.25	3
	B13-ANT1	23.44	23.24	0.2	3
	B14-ANT1	23.46	23.21	0.25	3
	B17-ANT1	23.39	23.21	0.18	3
	B26-ANT1	23.33	23.25	0.08	3
	B71-ANT1	23.39	23.29	0.1	3
	Band5 B-ANT1	23.16	23.11	0.05	3
	B2-ANT2	22.81	22.74	0.07	3
	B4-ANT2	22.94	22.83	0.11	3
	B7-ANT2	23.18	22.89	0.29	3
	B25-ANT2	22.84	22.81	0.03	3
	B66-ANT2	22.98	22.89	0.09	3
	B38-ANT2	23.18	23.05	0.13	3
	B41-PC2-ANT2	26.2	26.09	0.11	3
	B41-PC3-ANT2	23.16	23.05	0.11	3
	B42-27Q-ANT2	20.85	20.64	0.21	3
	Band2 C-ANT2	22.77	22.56	0.21	3
	Band7 C-ANT2	23.08	23.01	0.07	3
	Band66 C-ANT2	22.96	22.84	0.12	3
	Band38 C-Ant2	23.11	23.05	0.06	3
	B41 C-PC2-ANT2	26.03	25.81	0.22	3
	B41 C-PC3-ANT2	23.02	22.86	0.16	3
	B42 C-27Q-ANT2	20.75	20.65	0.1	3



Test Item	Mode	IHDT56AW3 Parent Worst mode Test Result	IHDT56AW5 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	Average Power (dBm)				
	B2-ANT3	23.17	23.08	0.09	3
	B4-ANT3	23.37	23.23	0.14	3
	B7-ANT3	23.35	23.21	0.14	3
	B25-ANT3	23.36	23.18	0.18	3
	B66-ANT3	23.25	23.21	0.04	3
	B38-ANT3	23.31	23.25	0.06	3
	B41-PC2-ANT3	26.33	26.15	0.18	3
	B41-PC3-ANT3	23.47	23.39	0.08	3
	Band2 C-ANT3	23.11	22.80	0.31	3
	Band7 C-ANT3	23.22	23.11	0.11	3
	Band66 C-ANT3	23.21	22.82	0.39	3
	Band38 C-Ant3	23.28	23.03	0.25	3
	B41 C-PC2-ANT3	26.02	26	0.02	3
	B41 C-PC3-ANT3	23.32	23.04	0.28	3
	B2-ANT4	21.61	21.55	0.06	3
	B4-ANT4	21.66	21.53	0.13	3
	B7-ANT4	21.95	21.83	0.12	3
	B25-ANT4	21.67	21.61	0.06	3
	B66-ANT4	21.7	21.65	0.05	3
	B38-ANT4	21.96	21.85	0.11	3
	B41-PC2-ANT4	24.89	24.81	0.08	3
	B41-PC3-ANT4	22.05	21.81	0.24	3
	B42-27Q-ANT4	23.12	22.81	0.31	3
	Band2 C-ANT4	21.53	21.27	0.26	3
	Band7 C-ANT4	21.92	21.54	0.38	3
	Band66 C-ANT4	21.68	21.41	0.27	3
	Band38 C-Ant4	21.93	20.69	1.24	3



Test Item	Mode	IHDT56AW3 Parent Worst mode Test Result	IHDT56AW5 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Conducted Power (dBm)	Average Power (dBm)				
	B41 C-PC2-ANT4	24.62	23.99	0.63	3
	B41 C-PC3-ANT4	21.88	21.16	0.72	3
	B42 C-27Q-ANT4	23.08	22.85	0.23	3
	B42-27Q-ANT6	22.03	21.76	0.27	3
	B42 C-27Q-ANT6	21.98	21.85	0.13	3
	B42-27Q-ANT8	23.25	23.13	0.12	3
	B42 C-27Q-ANT8	23.17	22.74	0.43	3

Test Item	Mode	IHDT56AW3 Parent Worst mode Test Result	IHDT56AW5 Variant Check Test Result	Deviation (dB)	Deviation Limit (dB)
Radiated Spurious Emission	(dBm)				
	LTE B26	-20.93	-22.32	1.39	3
	LTE B41	-10.51	-12.81	2.3	3



Test Items	Remark
Conducted Output Power	Spot Check Evaluation
Effective Radiated Power	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310B/C/D/E/F/G)
Equivalent Isotropic Radiated Power	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310B/C/D/E/F/G)
Peak-to-Average Ratio	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310B/C/D/E/F/G)
Occupied Bandwidth	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310B/C/D/E/F/G)
Conducted Band Edge Measuremen	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310B/C/D/E/F/G)
Emission Mask	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310B/C/D/E/F/G)
Conducted Spurious Emission	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310B/C/D/E/F/G)
Frequency Stability Temperature & Voltage	Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310B/C/D/E/F/G)
Radiated Spurious Emission	Spot-Check Test Results for ant 0/1/2 Other Ant Full Test Results (See Appendix A) inter-band CA Please refer to FCC ID: IHDT56AW3 (Sporton Test Report FG5N1310U)



Appendix C. Original Report