



FCC TEST REPORT

FCC ID: SY4-B01015

On Behalf of

Shanghai Huace Navigation Technology Ltd.

Handheld GNSS Data Collector

Model No.: HCE600

Prepared for : Shanghai Huace Navigation Technology Ltd.

Address : Building D, 599 Gaojing Road, Qingpu District,
Shanghai, China

Prepared By : Shenzhen Alpha Product Testing Co., Ltd.

Address : Building i, No.2, Lixin Road, Fuyong Street, Bao'an
District, 518103, Shenzhen, Guangdong, China

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Date of Report : November 25, 2021

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TEST REPORT DECLARATION

Applicant : Shanghai Huace Navigation Technology Ltd.
Address : Building D, 599 Gaojing Road, Qingpu District, Shanghai, China
Manufacturer : Shanghai Huace Navigation Technology Ltd.
Address : Building D, 599 Gaojing Road, Qingpu District, Shanghai, China
EUT Description : Handheld GNSS Data Collector

(A) Model No. : HCE600

(B) Trademark :



Measurement Standard Used:

FCC CFR Title 47 Part 2
FCC CFR Title 47 Part22 Subpart H
FCC CFR Title 47 Part24 Subpart E
FCC CFR Title 47 Part27
ANSI C63.26:2015

The device described above is tested by Shenzhen Alpha Product Testing Co., Ltd. to determine the maximum emission levels emanating from the device. The test results are contained in this test report and Shenzhen Alpha Product Testing Co., Ltd. is assumed of full responsibility for the accuracy and completeness of these tests.

After the test, our opinion is that EUT compliance with the requirement of the above standards.

This report applies to above tested sample only. This report shall not be reproduced in parts without written approval of Shenzhen Alpha Product Testing Co., Ltd.

Tested by (name + signature).....:

Lucas Pang
Project Engineer

Handwritten signature of Lucas Pang in black ink, positioned above a horizontal dashed line.

Approved by (name + signature).....:

Simple Guan
Project Manager

Handwritten signature of Simple Guan in black ink, positioned above a horizontal dashed line.

Date of issue.....

November 25, 2021

Revision History

Revision	Issue Date	Revisions	Revised By
V0	November 25, 2021	Initial released Issue	Lucas Pang

1 Test Summary

Test Item	Section in CFR 47	Result
RF Exposure (SAR)	Part 1.1307 Part 2.1093	Pass* (Please refer to SAR Report)
RF Output Power	Part 2.1046 part22.913(a) (5) Part 24.232 (c) Part 27.50 (d)(4) Part 27.50 (h)	Pass
Peak-To-Average Ratio	Part 2.1046 Part 22.913(d) Part 24.232 (d) Part 27.50(d)	Pass
Modulation Characteristics	Part 2.1047	N/A
99% & -26 dB Occupied Bandwidth	Part 2.1049 Part 22.917 Part 24.238 Part 27.53(a)	Pass
Spurious Emissions at Antenna Terminal	Part 2.1051 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h)/(m)	Pass
Field Strength of Spurious Radiation	Part 2.1053 Part 22.917 (a) Part 24.238 (a) Part 27.53 (h)/(m)	Pass
Out of band emission, Band Edge	Part 22.917 (a) Part 24.238 (a) Part 27.53(h)/(m)	Pass
Frequency stability vs. temperature	Part 2.1055(a)(1)(b)	Pass
Frequency stability vs. voltage	Part 2.1055(d)(1)(2)	Pass

Pass: The EUT complies with the essential requirements in the standard.

2 General Information

2.1 General Description of EUT

Description of Device (EUT)

Description : Handheld GNSS Data Collector

Trademark :



Model Number :

DIFF. : N/A

Test Voltage : DC 3.85V from battery, DC 5V from adapter

Support Networks : LTE

Support Bands : LTE Band 2/4/5/7/12/17/41

Channel Bandwidth :
 LTE Band 2: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
 LTE Band 4: 1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz
 LTE Band 5: 1.4MHz, 3MHz, 5MHz, 10MHz
 LTE Band 7: 5MHz, 10MHz, 15MHz, 20MHz
 LTE Band 12: 1.4MHz, 3MHz, 5MHz, 10MHz
 LTE Band 17: 5MHz, 10MHz
 LTE Band 41: 5MHz, 10MHz, 15MHz, 20MHz

TX Frequency :
 LTE Band 2: 1850 ~ 1910 MHz
 LTE Band 4: 1710 ~ 1755 MHz
 LTE Band 5: 824 ~ 849 MHz
 LTE Band 7: 2500 ~ 2570 MHz
 LTE Band 12: 699MHz ~ 716MHz
 LTE Band 17: 704 MHz ~ 716 MHz
 LTE Band 41: 2555MHz ~ 2655 MHz

Modulation type : QPSK, 16QAM

Antenna Type : Internal antenna,
 LTE Band 2: Maximum Gain is 0.8dBi.
 LTE Band 4: Maximum Gain is 0.8dBi.
 LTE Band 5: Maximum Gain is 0.2dBi.
 LTE Band 7: Maximum Gain is 0.7dBi.
 LTE Band 12: Maximum Gain is 0.1dBi.
 LTE Band 17: Maximum Gain is 0.1dBi.
 LTE Band 38: Maximum Gain is 0.8dBi.
 LTE Band 41: Maximum Gain is 0.6dBi.

Software version : Android 10

Hardware version : 3.0

Remark 1: The worst-case simultaneous transmission configuration was evaluated with no non-compliance found. Results in this report are only for 4G function, and there is no other transmitter involved.

Remark 2: This product has a filter so that the band 41 frequency band only supports 2555MHz ~ 2655MHz

2.2 Related Submittal(s) / Grant (s)

This submittal(s) (test report) is filing to comply with Section Part 22 subpart H and Part 24 subpart E of the FCC CFR 47 Rules.

2.3 Test Facility

Shenzhen Alpha Product Testing Co., Ltd
Building i, No.2, Lixin Road, Fuyong Street, Bao'an District, 518103, Shenzhen, Guangdong, China

June 21, 2018 File on Federal Communication Commission
Registration Number: 293961

July 15, 2019 Certificated by IC
Registration Number: CN0085

2.4 Accessories of Device (EUT)

Accessories 1 : AC Adapter
Manufacturer : EDAC POWER Electronics Co., Ltd
Model : EA1012AVRU-050
Ratings : Input: 100-240Vac~50/60Hz 1.0A
Output: 5.0V=2.4A

Accessories 2 : /
Manufacturer : /
Model : /
Ratings : /

2.5 Tested Supporting System Details

No.	Description	Manufacturer	Model	Serial Number	Certification or DOC
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2.6 Test Conditions

Items	Required	Actual
Temperature range:	15-35℃	24℃
Humidity range:	25-75%	56%
Pressure range:	86-106kPa	98kPa

2.7 Measurement Uncertainty

Item	Uncertainty
Uncertainty for Power point Conducted Emissions Test	2.74dB
Uncertainty for Radiation Emission test in 3m chamber (below 30MHz)	2.13 dB(Polarize: V)
	2.57dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (30MHz to 1GHz)	3.77dB(Polarize: V)
	3.80dB(Polarize: H)
Uncertainty for Radiation Emission test in 3m chamber (1GHz to 25GHz)	4.16dB(Polarize: H)
	4.13dB(Polarize: V)
Uncertainty for radio frequency	5.4×10^{-8}
Uncertainty for conducted RF Power	0.37dB
Uncertainty for temperature	0.2°C
Uncertainty for humidity	1%
Uncertainty for DC and low frequency voltages	0.06%

3 Test Instruments list

Equipment	Manufacture	Model No.	Serial No.	Last cal.	Cal Interval
9*6*6 anechoic chamber	CHENYU	9*6*6	N/A	2020.09.02	3Year
Spectrum analyzer	ROHDE&SCHWARZ	FSV40-N	102137	2021.08.25	1Year
Spectrum analyzer	Agilent	N9020A	MY499100060	2021.08.25	1Year
Receiver	ROHDE&SCHWARZ	ESR	1316.3003K03-102082-Wa	2021.08.25	1Year
Receiver	R&S	ESCI	101165	2021.08.25	1Year
Bilog Antenna	Schwarzbeck	VULB 9168	VULB9168-438	2020.04.12	2Year
Horn Antenna	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D(1201)	2020.04.12	2Year
Active Loop Antenna	SCHWARZBECK	FMZB 1519B	00059	2021.08.30	2Year
RF Cable	Resenberger	Cable 1	RE1	2021.08.25	1Year
RF Cable	Resenberger	Cable 2	RE2	2021.08.25	1Year
RF Cable	Resenberger	Cable 3	CE1	2021.08.25	1Year
Pre-amplifier	HP	HP8347A	2834A00455	2021.08.25	1Year
Pre-amplifier	Agilent	8449B	3008A02664	2021.08.25	1Year
L.I.S.N.#1	Schwarzbeck	NSLK8126	8126-466	2021.08.25	1Year
L.I.S.N.#2	ROHDE&SCHWARZ	ENV216	101043	2021.08.25	1 Year
Horn Antenna	SCHWARZBECK	BBHA9170	00946	2021.08.30	2 Year
Preamplifier	SKET	LNPA_1840-50	SK2018101801	2021.08.25	1 Year
Power Meter	Agilent	E9300A	MY41496628	2021.08.25	1 Year
Power Sensor	DARE	RPR3006W	15100041SNO91	2021.08.25	1 Year
Temp. & Humid. Chamber	Weihuang	WHTH-1000-40-880	100631	2021.04.21	1 Year
Switching Mode Power Supply	JUNKE	JK12010S	20140927-6	2021.08.25	1 Year
Adjustable attenuator	MWRFTtest	N/A	N/A	N/A	N/A
10dB Attenuator	Mini-Circuits	DC-6G	N/A	N/A	N/A

4 System test configuration

4.1 Test mode

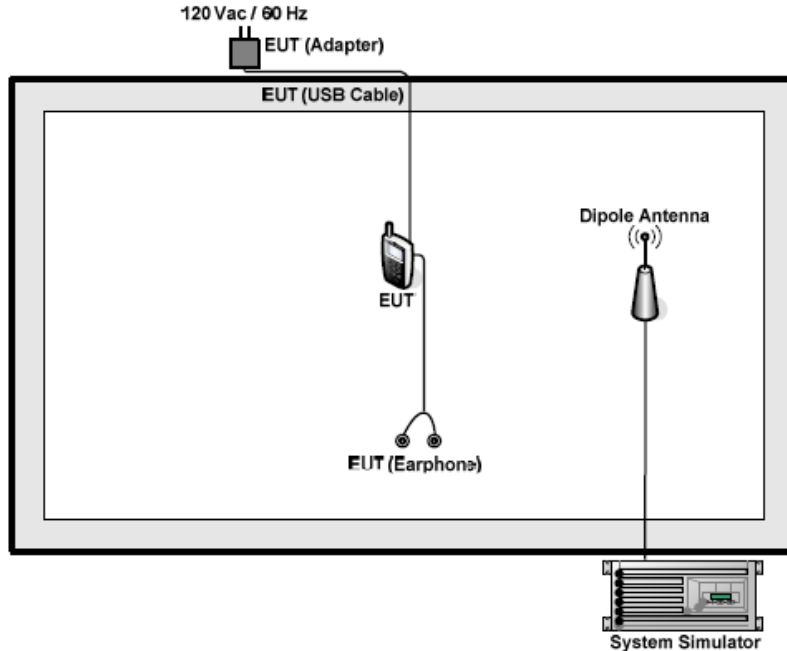
During all testing, EUT is in link mode with base station emulator at maximum power level. The spurious emission measurements were carried out in semi-anechoic chamber with 3-meter test range, and EUT is rotated on three test planes to find out the worst emission.

Test modes		
Band	Radiated	Conducted
LTE Band 2	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 4	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 5	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 7	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 12	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 17	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link
LTE Band 41	■ QPSK link, 16QAM link	■ QPSK link, 16QAM link

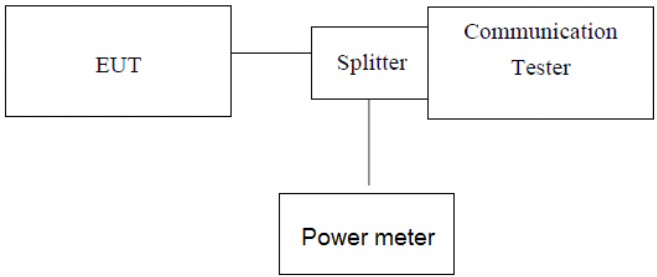
Note: Antenna port conducted and radiated test items were performed according to KDB 971168 D01 Power Meas License Digital Systems v03r1 with maximum output power.

Radiated measurements were performed with rotating EUT in different three orthogonal test planes to find the maximum emission.

4.2 Configuration of Tested System



4.3 Conducted Output Power

Test Requirement:	FCC part22.913(a) (5), FCC part24.232(b) and FCC Part 27.50 (d)(4)/(h)
Test Method:	ANSI C63.26:2015
Limit:	LTE Band 2: 2W LTE Band 4: 1W LTE Band 5: 7W LTE Band 7: 2W LTE Band 12: 3W LTE Band 17: 1W LTE Band 41: 2W
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1. The transmitter output port was connected to base station. 2. The RF output of EUT was connected to the power meter by RF cable and attenuator, the path loss was compensated to the results for each measurement. 3. Set EUT at maximum power through base station. 4. Select lowest, middle, and highest channels for each band and different modulation. 5. Measure the maximum burst average power.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

LTE Band2

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	1850.7	1	0	24.39	23.13
		1	3	23.31	23.49
		1	5	23.50	22.87
		3	0	24.00	23.66
		3	2	22.34	22.50
		3	3	22.88	22.60
		6	0	22.86	22.26
	1880.0	1	0	23.34	22.66
		1	3	23.71	22.63
		1	5	22.02	22.53
		3	0	21.98	21.78
		3	2	21.12	21.99
		3	3	22.87	20.71
		6	0	21.93	22.22
	1909.3	1	0	22.15	20.98
		1	3	22.26	22.29
		1	5	21.95	22.23
		3	0	22.01	22.17
		3	2	22.36	21.63
		3	3	22.43	22.71
		6	0	23.00	21.00
3	1851.5	1	0	23.55	22.76
		1	7	22.91	23.48
		1	14	24.25	23.61
		8	0	22.04	21.52
		8	4	22.24	22.68
		8	7	22.48	21.25
		15	0	21.97	21.43
	1880.0	1	0	22.67	22.39
		1	7	23.23	22.66
		1	14	23.04	21.34
		8	0	20.63	21.92
		8	4	21.20	19.47
		8	7	21.27	20.33
		15	0	21.91	21.05
	1908.5	1	0	22.66	22.19
		1	7	21.83	21.38
		1	14	22.44	21.66
		8	0	22.99	21.50
		8	4	22.87	22.37
		8	7	22.33	22.38
		15	0	21.14	22.95
5	1852.5	1	0	22.66	22.41
		1	12	22.75	21.60
		1	24	22.13	21.49

		12	0	22.56	20.98
		12	6	22.48	22.26
		12	13	22.57	21.60
		25	0	21.75	22.74
	1880.0	1	0	24.38	24.19
		1	12	22.11	23.59
		1	24	21.68	21.64
		12	0	21.72	20.46
		12	6	20.81	21.58
		12	13	21.31	21.69
		25	0	22.02	20.37
	1907.5	1	0	22.70	21.61
		1	12	22.64	21.80
		1	24	21.95	21.27
		12	0	22.39	21.93
		12	6	21.04	22.88
		12	13	21.72	21.13
		25	0	22.39	22.17
10	1855.0	1	0	23.89	22.92
		1	24	23.02	22.93
		1	49	22.56	23.16
		25	0	22.32	21.85
		25	12	21.76	21.70
		25	25	22.75	22.90
		50	0	23.28	21.64
	1880.0	1	0	22.75	23.46
		1	24	23.88	23.61
		1	49	21.96	21.92
		25	0	21.79	21.40
		25	12	22.12	21.47
		25	25	20.26	21.35
		50	0	21.41	20.68
	1905.0	1	0	23.67	22.17
		1	24	22.36	22.72
		1	49	22.60	22.21
		25	0	22.88	22.46
		25	12	21.87	22.04
		25	25	23.07	22.09
		50	0	22.27	22.18
15	1857.5	1	0	23.20	23.07
		1	37	22.97	23.63
		1	74	21.98	21.79
		37	0	23.30	22.05
		37	18	21.30	22.47
		37	38	21.45	21.94
		75	0	23.43	22.02
	1880.0	1	0	23.28	23.05
		1	37	24.02	22.13
		1	74	22.66	21.22
		37	0	21.27	21.15

		37	18	22.81	22.50
		37	38	22.38	22.51
		75	0	22.53	21.28
	1902.5	1	0	22.21	22.07
		1	37	22.73	21.06
		1	74	22.74	22.20
		37	0	21.18	19.98
		37	18	22.20	21.21
		37	38	22.73	21.29
		75	0	20.55	21.98
20	1860.0	1	0	23.32	22.94
		1	49	23.15	23.56
		1	99	22.53	23.23
		50	0	22.67	21.79
		50	25	22.89	22.60
		50	50	20.94	20.78
		100	0	22.56	21.29
	1880.0	1	0	24.40	24.20
		1	49	24.22	22.60
		1	99	24.33	21.72
		50	0	24.25	21.53
		50	25	24.33	22.51
		50	50	24.21	22.62
		100	0	24.25	22.10
	1900.0	1	0	22.17	21.82
		1	49	22.47	22.60
		1	99	21.72	22.22
		50	0	22.29	22.03
		50	25	22.64	20.91
		50	50	22.63	19.50
		100	0	22.63	21.30

LTE Band4

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	1710.7	1	0	24.31	23.86
		1	3	24.08	22.64
		1	5	24.01	23.95
		3	0	24.22	22.97
		3	2	23.82	22.70
		3	3	23.72	23.56
		6	0	22.04	23.19
	1732.5	1	0	24.06	24.22
		1	3	24.15	23.02
		1	5	21.96	22.27
		3	0	22.54	22.06
		3	2	22.34	22.85
		3	3	22.28	23.11
		6	0	21.99	21.58
	1754.3	1	0	22.48	22.11
		1	3	22.55	22.20
		1	5	23.14	22.05
		3	0	23.23	22.32
		3	2	22.50	22.69
		3	3	21.10	23.06
		6	0	21.16	21.82
3	1711.5	1	0	24.02	23.29
		1	7	23.56	23.87
		1	14	23.18	23.79
		8	0	23.78	22.31
		8	4	22.38	22.12
		8	7	22.69	22.03
		15	0	23.56	22.74
	1732.5	1	0	23.03	23.68
		1	7	24.31	23.00
		1	14	23.07	22.59
		8	0	21.58	21.72
		8	4	21.48	21.30
		8	7	22.00	20.13
		15	0	22.32	19.82
	1753.5	1	0	22.42	22.41
		1	7	23.04	22.52
		1	14	23.52	21.17
		8	0	21.77	21.83
		8	4	21.85	20.38
		8	7	21.87	21.87
		15	0	20.69	22.35
5	1712.5	1	0	23.49	23.87
		1	12	23.55	23.41
		1	24	24.15	22.29

		12	0	23.65	24.13
		12	6	23.00	22.62
		12	13	24.33	22.80
		25	0	23.44	23.20
	1732.5	1	0	22.66	22.56
		1	12	23.49	23.66
		1	24	22.45	21.05
		12	0	21.23	21.21
		12	6	22.05	21.20
		12	13	22.93	21.13
		25	0	22.70	22.17
	1752.5	1	0	22.31	22.08
		1	12	22.98	22.50
		1	24	22.64	21.81
		12	0	22.25	21.05
		12	6	22.17	21.00
		12	13	21.41	21.98
		25	0	21.80	20.93
10	1715.0	1	0	23.39	22.59
		1	24	24.09	23.91
		1	49	24.60	23.22
		25	0	22.41	21.70
		25	12	22.15	22.44
		25	25	22.96	23.08
		50	0	23.23	22.23
	1732.5	1	0	23.70	23.90
		1	24	23.72	23.43
		1	49	21.45	22.25
		25	0	22.03	21.93
		25	12	22.03	22.23
		25	25	22.41	22.11
		50	0	22.56	21.23
	1750.0	1	0	22.95	21.59
		1	24	22.19	22.51
		1	49	23.30	23.26
		25	0	21.18	21.47
		25	12	22.32	22.05
		25	25	22.06	20.57
		50	0	20.72	20.34
15	1717.5	1	0	24.49	23.96
		1	37	24.73	23.77
		1	74	23.23	24.60
		37	0	23.49	22.82
		37	18	22.89	23.25
		37	38	23.01	22.48
		75	0	22.44	21.39
	1732.5	1	0	24.85	24.27
		1	37	23.92	22.81
		1	74	23.16	21.92
		37	0	22.38	22.25

		37	18	21.41	21.96
		37	38	21.84	20.60
		75	0	21.97	20.21
	1747.5	1	0	22.45	23.47
		1	37	23.20	22.29
		1	74	22.78	23.33
		37	0	20.94	21.92
		37	18	21.02	21.14
		37	38	21.35	20.41
		75	0	22.08	21.26
20	1720.0	1	0	24.88	24.42
		1	49	24.60	24.00
		1	99	24.45	22.79
		50	0	24.47	23.11
		50	25	24.51	22.49
		50	50	24.75	22.85
		100	0	24.64	21.76
	1732.5	1	0	23.54	23.92
		1	49	24.83	24.26
		1	99	22.62	21.14
		50	0	22.71	21.19
		50	25	22.52	21.58
		50	50	22.12	22.21
		100	0	22.36	21.76
	1745.0	1	0	22.80	21.43
		1	49	24.09	22.38
		1	99	22.16	22.51
		50	0	22.05	21.72
		50	25	22.20	20.95
		50	50	21.65	20.74
		100	0	22.13	22.01

LTE Band5

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	824.7	1	0	23.30	24.27
		1	3	22.82	21.83
		1	5	22.02	22.54
		3	0	23.63	22.65
		3	2	22.79	21.71
		3	3	22.74	22.79
		6	0	22.81	22.70
	836.5	1	0	23.69	24.07
		1	3	23.93	22.03
		1	5	21.98	22.42
		3	0	23.60	22.58
		3	2	22.11	22.63
		3	3	20.68	22.18
		6	0	22.37	22.16
	848.3	1	0	21.77	21.00
		1	3	22.09	20.39
		1	5	22.31	22.48
		3	0	22.19	21.58
		3	2	21.76	22.52
		3	3	22.25	21.14
		6	0	21.82	20.00
3	825.5	1	0	22.84	22.24
		1	7	23.68	22.81
		1	14	23.00	22.01
		8	0	21.97	21.76
		8	4	23.87	22.20
		8	7	22.58	22.21
		15	0	22.48	22.37
	836.5	1	0	22.91	21.85
		1	7	22.83	22.06
		1	14	21.47	20.49
		8	0	22.65	22.25
		8	4	21.15	20.45
		8	7	22.07	20.82
		15	0	21.71	21.54
	847.5	1	0	22.50	22.45
		1	7	21.46	22.41
		1	14	21.47	21.05
		8	0	22.54	21.91
		8	4	22.05	22.50
		8	7	21.33	22.16
		15	0	21.94	21.29
5	826.5	1	0	23.60	22.70
		1	12	23.23	22.69
		1	24	23.49	22.00

		12	0	22.94	22.72
		12	6	22.68	21.94
		12	13	21.96	22.20
		25	0	24.13	23.62
	836.5	1	0	22.75	22.87
		1	12	21.57	22.57
		1	24	22.96	22.49
		12	0	21.43	21.83
		12	6	22.83	21.93
		12	13	22.76	21.51
		25	0	21.59	22.40
	846.5	1	0	21.12	21.88
		1	12	21.52	22.02
		1	24	22.17	22.36
		12	0	21.59	22.51
		12	6	22.39	21.84
		12	13	20.86	21.03
		25	0	21.89	20.13
10	829.0	1	0	24.86	23.05
		1	24	24.34	22.99
		1	49	24.47	23.53
		25	0	24.42	23.05
		25	12	24.28	22.06
		25	25	24.45	23.00
		50	0	24.55	24.40
	836.5	1	0	24.09	23.50
		1	24	23.10	21.66
		1	49	21.49	21.48
		25	0	23.16	21.88
		25	12	21.98	22.60
		25	25	23.21	21.67
		50	0	24.53	21.23
	844.0	1	0	22.56	22.72
		1	24	22.34	22.57
		1	49	22.40	22.38
		25	0	21.29	21.13
		25	12	22.41	21.83
		25	25	22.69	21.88
		50	0	21.18	21.64

LTE Band7

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
5	2502.5	1	0	24.26	22.29
		1	12	22.51	21.12
		1	24	22.21	22.10
		12	0	23.10	22.46
		12	6	23.12	21.63
		12	13	22.79	22.49
		25	0	22.72	22.89
	2535.0	1	0	23.15	23.67
		1	12	23.81	22.15
		1	24	22.35	22.21
		12	0	22.68	21.94
		12	6	22.03	22.05
		12	13	21.27	22.16
		25	0	22.75	21.81
	2567.5	1	0	22.01	20.55
		1	12	21.60	20.63
		1	24	21.54	22.66
		12	0	21.74	21.67
		12	6	22.06	22.77
		12	13	22.42	20.97
		25	0	21.86	20.48
10	2505.0	1	0	22.72	21.95
		1	24	22.87	23.12
		1	49	23.00	22.84
		25	0	22.00	22.13
		25	12	23.31	21.58
		25	25	23.48	22.62
		50	0	22.76	22.76
	2535.0	1	0	22.96	21.25
		1	24	22.41	22.54
		1	49	21.70	21.19
		25	0	21.76	22.70
		25	12	21.53	20.34
		25	25	21.97	21.33
		50	0	21.31	21.49
	2565.0	1	0	22.28	21.98
		1	24	21.57	22.68
		1	49	21.25	20.18
		25	0	22.49	22.12
		25	12	21.50	23.23
		25	25	21.28	22.03
		50	0	21.40	21.93
15	2507.5	1	0	23.19	22.88
		1	37	23.67	23.24
		1	74	23.21	22.08

		37	0	22.80	22.64
		37	18	22.77	22.44
		37	38	22.88	21.97
		75	0	23.45	23.74
	2535.0	1	0	23.50	22.75
		1	37	22.22	23.14
		1	74	22.53	23.02
		37	0	21.32	22.30
		37	18	22.63	22.18
		37	38	22.45	21.51
		75	0	22.05	22.70
	2562.5	1	0	20.94	21.58
		1	37	21.04	22.39
		1	74	22.38	22.22
		37	0	21.30	21.75
		37	18	22.41	20.90
		37	38	20.63	20.26
		75	0	22.40	20.77
20	2510.0	1	0	24.53	23.00
		1	49	24.11	22.31
		1	99	24.21	23.98
		50	0	24.11	23.20
		50	25	24.32	22.35
		50	50	24.14	23.56
		100	0	24.50	23.35
	2535.0	1	0	24.17	23.72
		1	49	23.05	22.57
		1	99	21.97	20.99
		50	0	23.77	22.25
		50	25	21.95	22.60
		50	50	23.16	21.91
		100	0	21.71	20.94
	2560	1	0	22.58	22.36
		1	49	22.94	23.11
		1	99	21.73	22.39
		50	0	20.75	21.30
		50	25	22.83	21.94
		50	50	22.77	21.38
		100	0	21.72	21.50

LTE Band12

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
1.4	699.7	1	0	24.13	23.74
		1	3	23.65	23.00
		1	5	22.76	22.06
		3	0	23.85	23.62
		3	2	24.39	23.02
		3	3	23.11	20.92
		6	0	23.35	22.43
	707.5	1	0	23.53	22.80
		1	3	22.87	22.56
		1	5	22.01	21.15
		3	0	23.59	21.37
		3	2	21.97	21.80
		3	3	22.79	20.59
		6	0	22.28	20.41
	715.3	1	0	22.16	21.00
		1	3	22.23	22.33
		1	5	20.73	19.76
		3	0	21.65	20.99
		3	2	22.99	20.88
		3	3	21.43	20.02
		6	0	22.28	20.38
3	700.5	1	0	23.22	24.01
		1	7	22.66	22.19
		1	14	23.30	23.38
		8	0	24.48	22.79
		8	4	24.23	22.91
		8	7	23.25	22.70
		15	0	23.71	22.64
	707.5	1	0	23.48	23.04
		1	7	23.72	22.77
		1	14	22.80	23.37
		8	0	23.37	22.11
		8	4	21.69	21.94
		8	7	21.67	20.65
		15	0	23.12	22.50
	714.5	1	0	22.35	22.87
		1	7	23.15	22.35
		1	14	21.64	22.30
		8	0	22.10	21.54
		8	4	22.63	22.18
		8	7	22.90	22.76
		15	0	21.81	20.67
5	701.5	1	0	22.27	23.59
		1	12	23.40	23.78
		1	24	22.70	22.81

		12	0	23.36	21.57
		12	6	22.53	22.54
		12	13	22.98	22.13
		25	0	22.38	23.37
	707.5	1	0	22.82	22.28
		1	12	22.98	22.33
		1	24	20.48	21.70
		12	0	22.82	22.51
		12	6	21.69	22.29
		12	13	22.50	21.97
		25	0	21.39	22.35
	713.5	1	0	23.04	21.92
		1	12	21.70	20.89
		1	24	21.86	20.18
		12	0	21.09	20.48
		12	6	22.59	20.05
		12	13	21.54	21.41
		25	0	21.50	20.49
10	704	1	0	23.01	23.52
		1	24	23.60	21.86
		1	49	23.26	22.00
		25	0	23.21	21.06
		25	12	23.32	21.21
		25	25	22.42	21.36
		50	0	22.73	21.96
	707.5	1	0	24.48	24.15
		1	24	24.20	23.20
		1	49	24.32	21.05
		25	0	24.28	21.12
		25	12	24.28	21.00
		25	25	24.25	21.05
		50	0	24.33	21.36
	711.0	1	0	22.06	21.60
		1	24	21.12	20.94
		1	49	22.55	21.09
		25	0	21.13	21.36
		25	12	21.19	20.17
		25	25	20.61	21.04
		50	0	22.59	20.34

LTE Band17

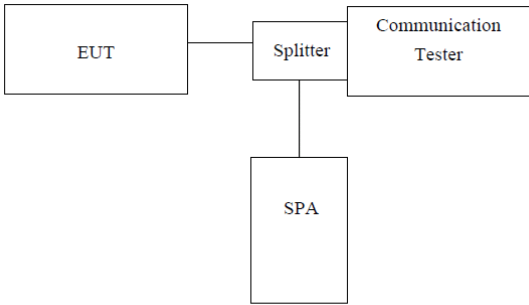
BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
5	706.5	1	0	23.16	23.41
		1	12	23.02	22.35
		1	24	23.01	22.03
		12	0	23.29	22.90
		12	6	24.00	23.40
		12	13	23.11	21.17
		25	0	24.14	21.87
	710.0	1	0	24.05	23.47
		1	12	22.79	21.78
		1	24	21.68	21.36
		12	0	23.04	20.61
		12	6	21.84	22.23
		12	13	22.16	20.67
		25	0	22.37	20.40
	713.5	1	0	21.58	21.02
		1	12	21.67	22.91
		1	24	20.86	19.81
		12	0	21.61	20.86
		12	6	22.99	21.08
		12	13	21.52	20.12
		25	0	22.39	20.55
10	709.0	1	0	23.56	23.38
		1	24	23.00	22.07
		1	49	23.26	23.37
		25	0	23.87	22.52
		25	12	24.07	22.23
		25	25	23.50	22.77
		50	0	23.54	23.16
	710.0	1	0	24.15	23.52
		1	24	23.68	22.49
		1	49	23.58	23.00
		25	0	23.57	21.59
		25	12	23.62	22.22
		25	25	23.83	21.02
		50	0	23.98	22.43
	711.0	1	0	22.82	23.03
		1	24	22.52	22.52
		1	49	21.64	22.21
		25	0	21.74	21.59
		25	12	22.72	22.67
		25	25	22.87	22.78
		50	0	22.45	20.92

LTE Band41

BW (MHz)	Frequency (MHz)	RB Configuration		Average Power [dBm]	
		Size	Offset	QPSK	16QAM
5	2557.5	1	0	23.54	23.67
		1	12	23.06	23.01
		1	24	22.98	21.93
		12	0	23.44	22.79
		12	6	23.51	23.00
		12	13	22.94	21.79
		25	0	24.12	21.55
	2605.0	1	0	23.71	22.85
		1	12	22.91	21.78
		1	24	21.25	21.64
		12	0	23.21	21.15
		12	6	21.69	21.53
		12	13	22.98	20.81
		25	0	21.89	20.30
	2652.5	1	0	22.39	21.00
		1	12	22.37	22.68
		1	24	21.14	20.48
		12	0	21.99	21.21
		12	6	22.31	21.14
		12	13	21.65	19.82
		25	0	22.52	20.82
10	2560.0	1	0	23.12	23.44
		1	24	22.93	22.21
		1	49	22.60	22.97
		25	0	24.13	22.87
		25	12	23.89	22.05
		25	25	23.32	22.66
		50	0	24.14	22.56
	2605.0	1	0	22.56	23.81
		1	24	23.43	22.74
		1	49	22.69	22.89
		25	0	22.84	21.71
		25	12	22.10	22.10
		25	25	21.48	20.86
		50	0	22.76	22.22
	2650.0	1	0	23.03	23.06
		1	24	23.15	21.90
		1	49	22.23	22.51
		25	0	21.65	21.50
		25	12	21.87	22.56
		25	25	23.17	22.41
		50	0	22.16	21.08
15	2562.5	1	0	22.27	23.21
		1	37	23.72	23.45
		1	74	23.05	22.42

		37	0	23.13	22.03
		37	18	23.16	22.27
		37	38	22.79	22.91
		75	0	22.57	22.91
	2605.0	1	0	22.82	22.20
		1	37	23.64	21.89
		1	74	20.49	21.02
		37	0	22.50	22.03
		37	18	21.51	21.78
		37	38	22.49	21.39
		75	0	21.88	21.90
	2647.5	1	0	23.20	21.73
		1	37	21.93	20.92
		1	74	21.84	20.48
		37	0	21.20	20.05
		37	18	23.09	19.74
		37	38	22.27	21.09
		75	0	21.46	20.67
20	2565.0	1	0	24.20	24.18
		1	49	24.35	21.75
		1	99	24.34	22.44
		50	0	24.31	21.47
		50	25	24.23	21.91
		50	50	24.22	21.65
		100	0	24.28	22.17
	2605.0	1	0	22.89	22.64
		1	49	23.19	23.55
		1	99	22.37	20.86
		50	0	20.92	21.05
		50	25	22.05	21.67
		50	50	22.77	20.93
		100	0	22.60	21.22
	2645.0	1	0	22.25	21.37
		1	49	21.97	21.28
		1	99	22.53	21.22
		50	0	21.89	21.47
		50	25	21.64	20.06
		50	50	20.55	20.48
		100	0	21.95	20.73

4.4 Peak-to-Average Ratio

Test Requirement:	Part 22.913(d), FCC part24.232(d) and FCC part27.50(d)(5)
Test Method:	ANSI C63.26:2015
Test Limit:	Used complementary cumulative distribution function (CCDF) of analyzer to determine that PAPR will not exceed 13 dB for more than 0.1 percent of the time
Test setup:	 <pre> graph LR EUT[EUT] --- Splitter[Splitter] Splitter --- CT[Communication Tester] Splitter --- SPA[SPA] </pre> <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1. The testing follows FCC KDB 971168 D01 v03r01 Section 5.7.. 2. The EUT was connected to spectrum and system simulator via a power divider 3. Using the CCDF measurement of spectrum analyzer; 4. Set $RBW \geq OBW$ or specified reference bandwidth; 5. Set the number of counts to a value that stabilizes the measured CCDF curve; 6. Set the measurement interval as 1ms 7. Record the maximum PAPR level associated with a probability of 0.1%.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Test plots are listed as below:

Test mode	Peak to Average Ratio (dB)	Limit (dB)	Result
LTE Band 2 Middle channel/20MHz/QPSK	5.76	13	PASS
LTE Band 2 Middle channel/20MHz/16-QAM	5.75	13	PASS
LTE Band 4 Middle channel/20MHz/QPSK	5.52	13	PASS
LTE Band 4 Middle channel/20MHz/16-QAM	5.51	13	PASS
LTE Band 5 Middle channel/10MHz/QPSK	5.39	13	PASS
LTE Band 5 Middle channel/10MHz/16-QAM	5.38	13	PASS
LTE Band 7 Middle channel/20MHz/QPSK	5.24	13	PASS
LTE Band 7 Middle channel/20MHz/16-QAM	5.24	13	PASS
LTE Band 12 Middle channel/10MHz/QPSK	6.21	13	PASS
LTE Band 12 Middle channel/10MHz/16-QAM	6.20	13	PASS
LTE Band 17 Middle channel/10MHz/QPSK	6.49	13	PASS
LTE Band 17 Middle channel/10MHz/16-QAM	6.48	13	PASS
LTE Band 41 Middle channel/20MHz/QPSK	9.40	13	PASS
LTE Band 41 Middle channel/20MHz/16-QAM	9.66	13	PASS

Test Mode: LTE Band 2
Middle channel/20MHz/QPSK



Test Mode: LTE Band 2
Middle channel/20MHz/16-QAM



Test Mode: LTE Band 4
Middle channel/20MHz/QPSK



Test Mode: LTE Band 4
Middle channel/20MHz/16-QAM



Test Mode: LTE Band 5
Middle channel/10MHz/QPSK



Test Mode: LTE Band 5
Middle channel/10MHz/16-QAM



Test Mode: LTE Band 7
Middle channel/20MHz/QPSK



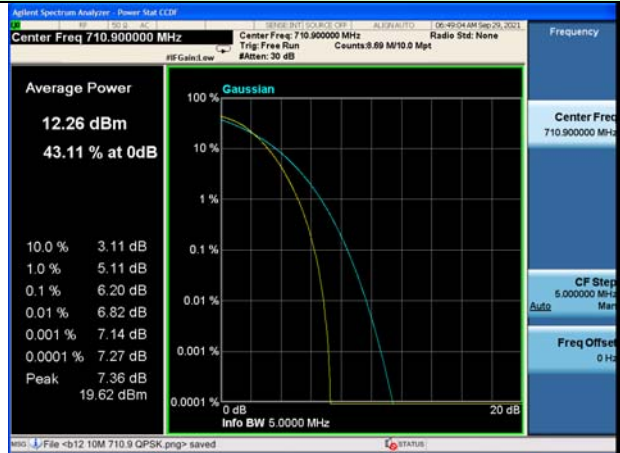
Test Mode: LTE Band 7
Middle channel/20MHz/16-QAM



Test Mode: LTE Band 12
Middle channel/10MHz/QPSK



Test Mode: LTE Band 12
Middle channel/10MHz/16-QAM



Test Mode: LTE Band 17
Middle channel/20MHz/QPSK



Test Mode: LTE Band 17
Middle channel/20MHz/16-QAM



Test Mode: LTE Band 41
Middle channel/20MHz/QPSK

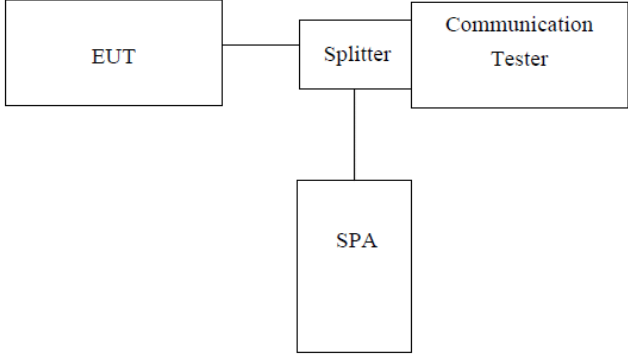


Test Mode: LTE Band 41
Middle channel/20MHz/16-QAM



Note: All bandwidth and modulation are tested, only the worst results are reported.

4.5 Occupy Bandwidth

Test Requirement:	FCC part22.913(a), FCC part24.232(b) and FCC part27.53(a)
Test Method:	ANSI C63.26:2015
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1.The EUT's output RF connector was connected with a short cable to the spectrum analyzer, set center frequency to channel center frequency. 2.RBW was set to about 1%-5% of emission OBW, VBW$\geq$ 3 X RBW. 3.Set spectrum analyzer detection mode to peak, and the trace mode to max hold. 4. Use the 99% OBW function, The 99% power OBW can be found on the plot, determine the “-26dB amplitude” as equal to reference value -26dB.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 2	1.4MHz	QPSK	6	0	1183.3	2603.00
		16-QAM	6	0	1176.5	1915.00
	3MHz	QPSK	15	0	2727.2	3391.00
		16-QAM	15	0	2718.6	2984.00
	5MHz	QPSK	25	0	4521.7	4930.00
		16-QAM	25	0	4515.6	4932.00
	10MHz	QPSK	50	0	9061.6	9913.00
		16-QAM	50	0	9064.7	10490.00
	15MHz	QPSK	75	0	13493.0	14740.00
		16-QAM	75	0	13492.0	14610.00
	20MHz	QPSK	100	0	17933.0	19130.00
		16-QAM	100	0	17888.0	19100.00

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 4	1.4MHz	QPSK	6	0	1171.0	1689.00
		16-QAM	6	0	1173.2	1395.00
	3MHz	QPSK	15	0	2720.0	2987.00
		16-QAM	15	0	2723.4	2975.00
	5MHz	QPSK	25	0	4517.7	4917.00
		16-QAM	25	0	4521.5	4894.00
	10MHz	QPSK	50	0	9049.1	9918.00
		16-QAM	50	0	9052.8	9972.00
	15MHz	QPSK	75	0	13463.0	14640.00
		16-QAM	75	0	13469.0	14720.00
	20MHz	QPSK	100	0	17890.0	19030.00
		16-QAM	100	0	17899.0	19040.00

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 5	1.4MHz	QPSK	6	0	1168.2	1412.00
		16-QAM	6	0	1164.5	1401.00
	3MHz	QPSK	15	0	2724.7	2998.00
		16-QAM	15	0	2718.7	2984.00
	5MHz	QPSK	25	0	4495.6	4907.00
		16-QAM	25	0	4510.9	4945.00
	10MHz	QPSK	50	0	9043.8	10040.00
		16-QAM	50	0	9039.8	10030.00

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 7	5MHz	QPSK	25	0	4515.0	4911.00
		16-QAM	25	0	4514.9	4939.00
	10MHz	QPSK	50	0	9061.7	9924.00
		16-QAM	50	0	9044.3	9844.00
	15MHz	QPSK	75	0	13487.0	15062.00
		16-QAM	75	0	13480.0	14600.00
	20MHz	QPSK	100	0	17912.0	19080.00
		16-QAM	100	0	17894.0	19030.00

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 12	1.4MHz	QPSK	25	0	1173.3	1423.00
		16-QAM	25	0	1182.3	1412.00
	3MHz	QPSK	50	0	2726.6	2987.00
		16-QAM	50	0	2726.0	2993.00
	5MHz	QPSK	25	0	4534.9	5162.00
		16-QAM	25	0	4535.1	5111.00
	10MHz	QPSK	50	0	9068.6	10330.00
		16-QAM	50	0	9041.7	10160.00

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 17	5MHz	QPSK	25	0	4549.0	5183.00
		16-QAM	25	0	4545.8	5199.00
	10MHz	QPSK	50	0	9103.6	10350.00
		16-QAM	50	0	9089.0	10250.00

EUT Mode	Channel Bandwidth	Mode	RB Configure		99% Occupy bandwidth (KHz)	-26dB bandwidth (KHz)
			RB Size	RB Offset		
LTE Band 41	5MHz	QPSK	25	0	4492.9	4932.00
		16-QAM	25	0	4501.0	5457.00
	10MHz	QPSK	50	0	8952.0	9591.00
		16-QAM	50	0	8941.3	9533.00
	15MHz	QPSK	75	0	13389.0	14250.00
		16-QAM	75	0	13388.0	14230.00
	20MHz	QPSK	100	0	17831.0	18700.00
		16-QAM	100	0	17826.0	18740.00

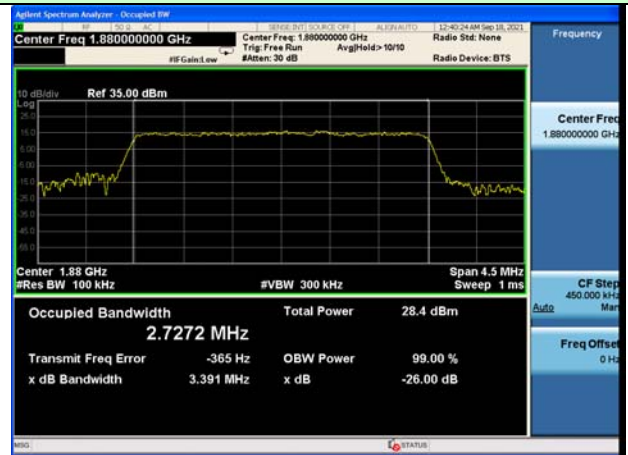
Test plot as follows:

Test Mode: LTE Band 2
Channel Bandwidth: 1.4MHz

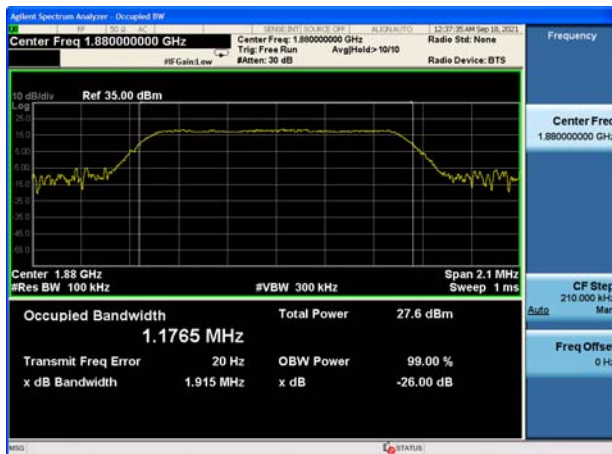


QPSK

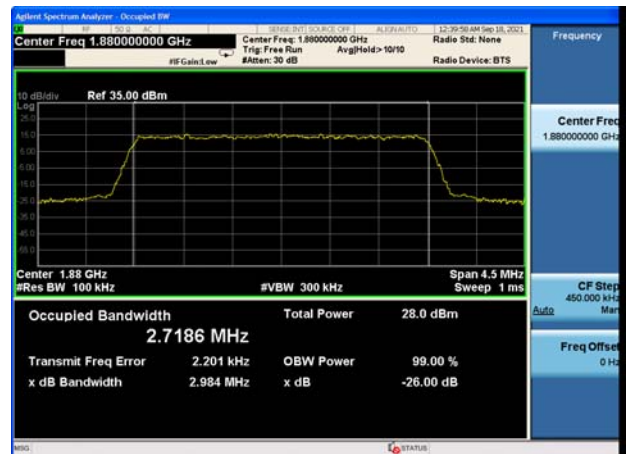
Test Mode: LTE Band 2
Channel Bandwidth: 3MHz



QPSK



16-QAM



16-QAM

Test Mode: LTE Band 2
Channel Bandwidth: 5MHz



QPSK

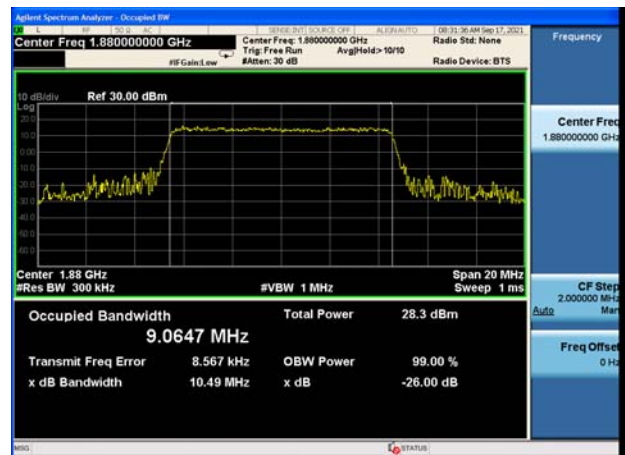
Test Mode: LTE Band 2
Channel Bandwidth: 10MHz



QPSK

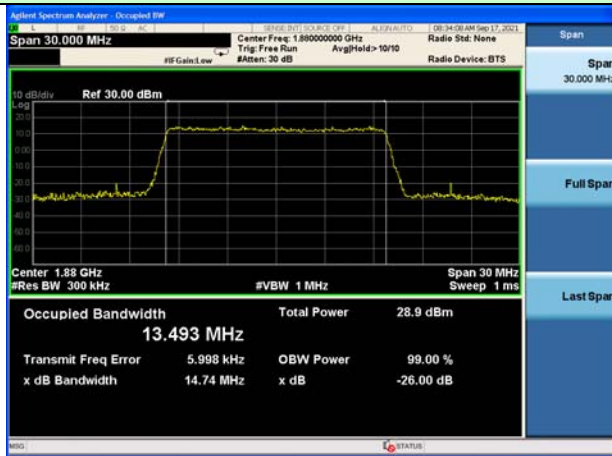


16-QAM



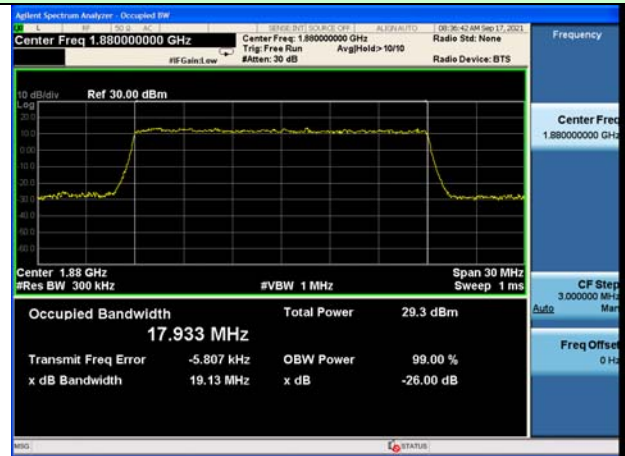
16-QAM

Test Mode: LTE Band 2
Channel Bandwidth: 15MHz

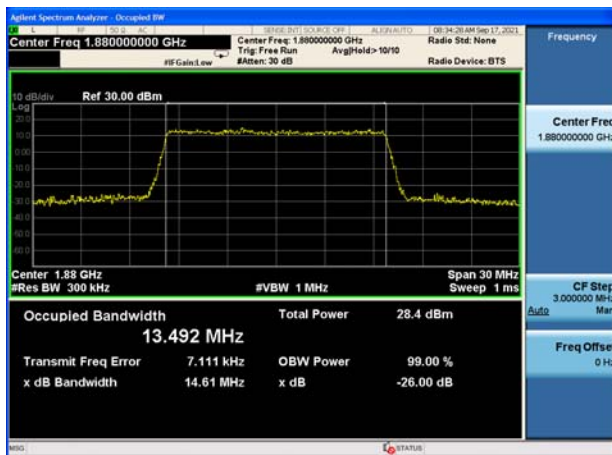


QPSK

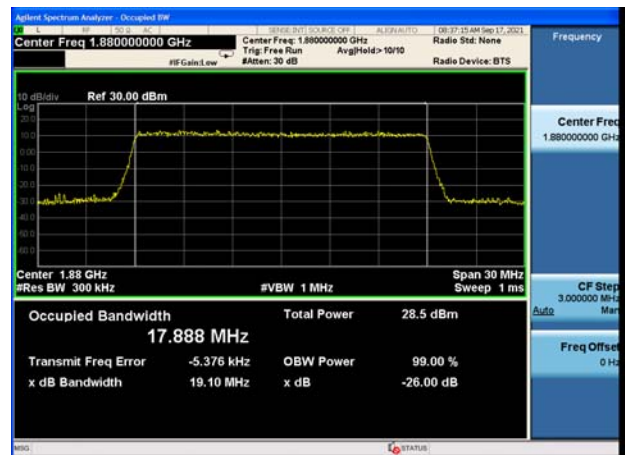
Test Mode: LTE Band 2
Channel Bandwidth: 20MHz



QPSK

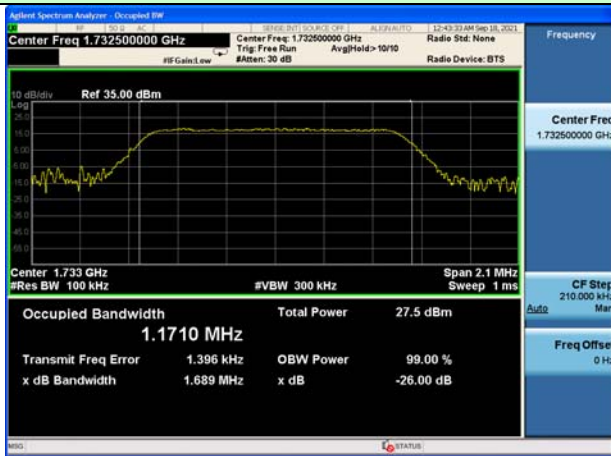


16-QAM



16-QAM

Test Mode: LTE Band 4
Channel Bandwidth: 1.4MHz

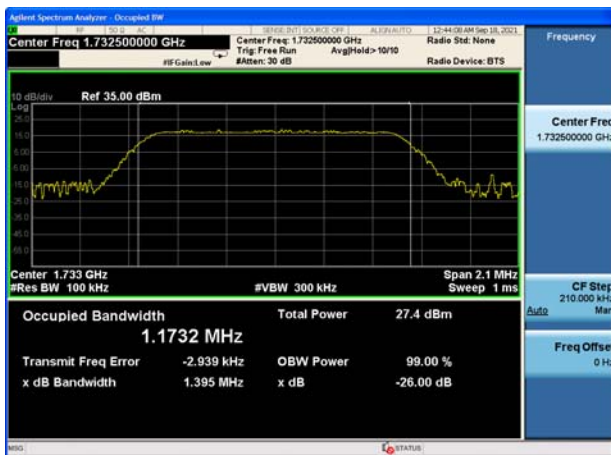


QPSK

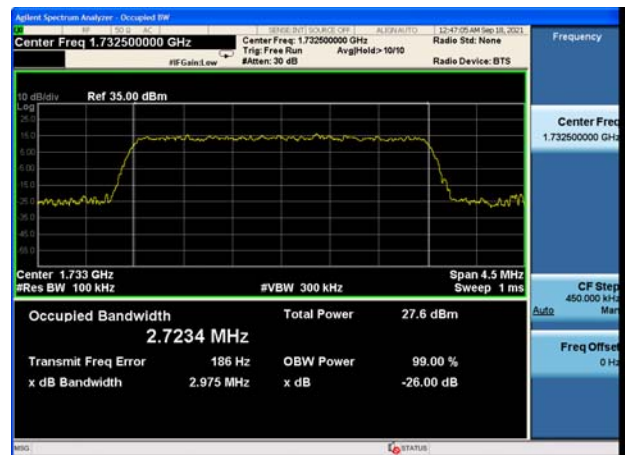
Test Mode: LTE Band 4
Channel Bandwidth: 3MHz



QPSK

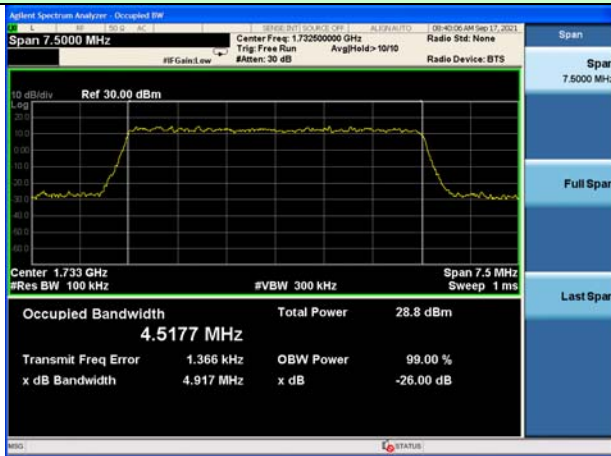


16-QAM



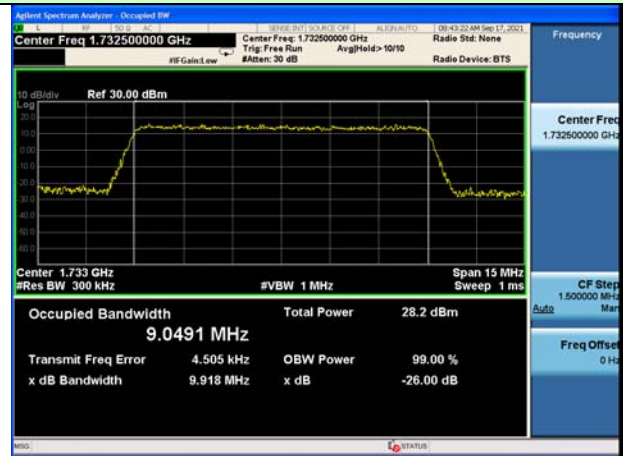
16-QAM

Test Mode: LTE Band 4
Channel Bandwidth: 5MHz

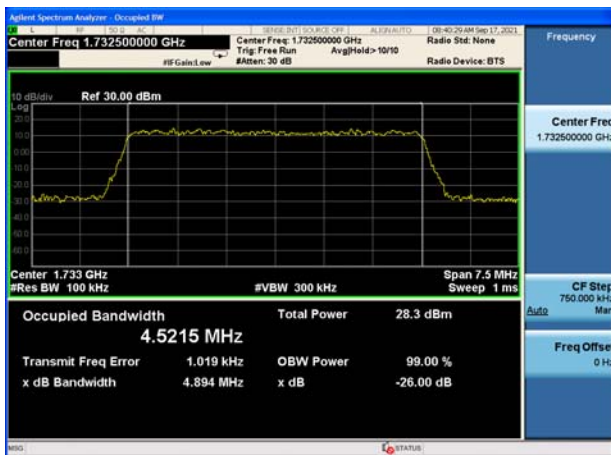


QPSK

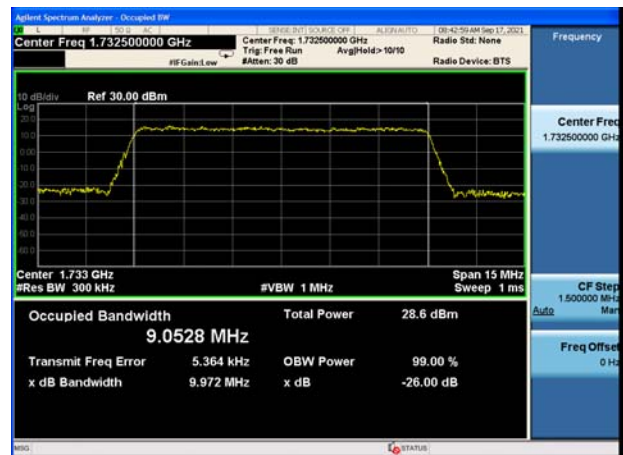
Test Mode: LTE Band 4
Channel Bandwidth: 10MHz



QPSK

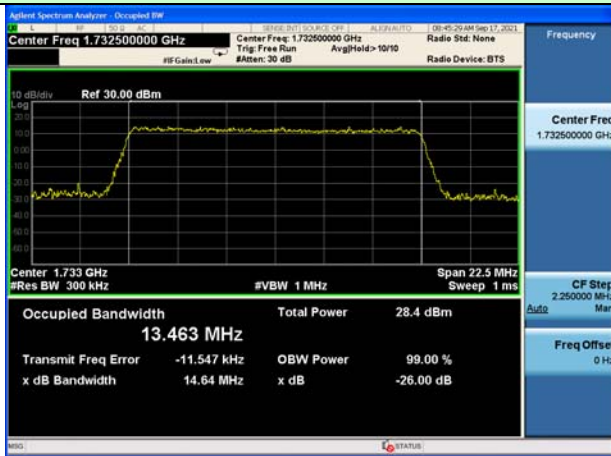


16-QAM



16-QAM

Test Mode: LTE Band 4
Channel Bandwidth: 15MHz

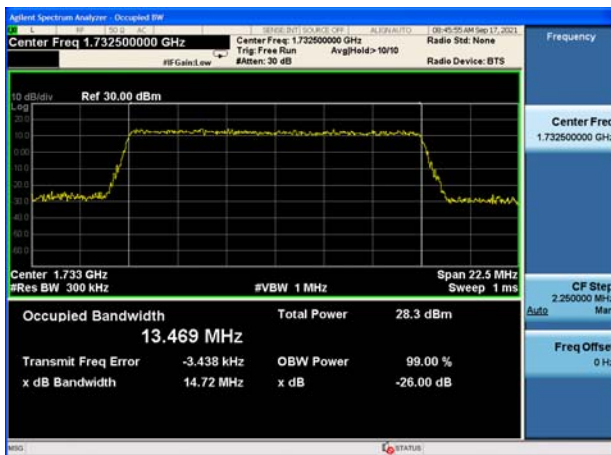


QPSK

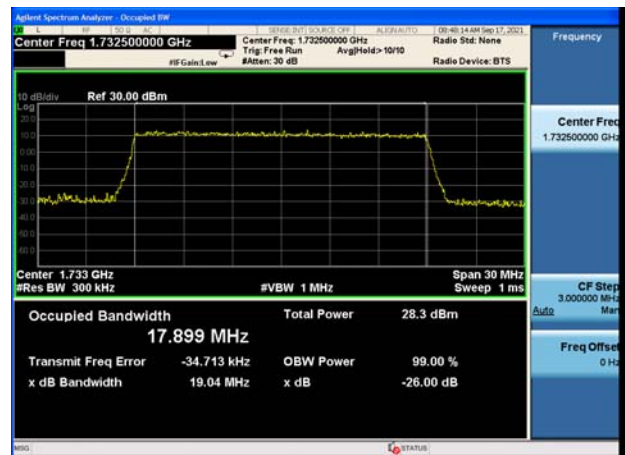
Test Mode: LTE Band 4
Channel Bandwidth: 20MHz



QPSK

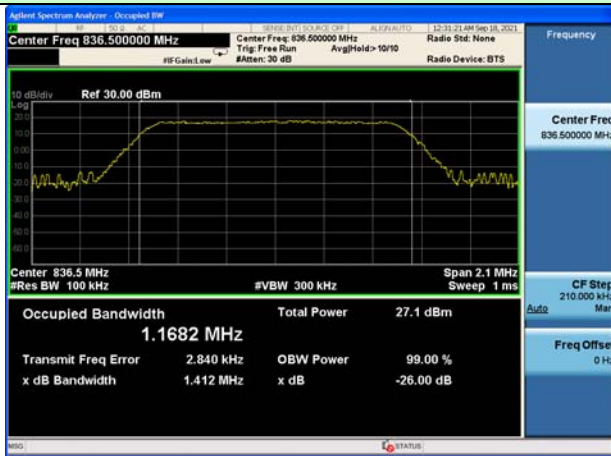


16-QAM



16-QAM

Test Mode: LTE Band 5
Channel Bandwidth: 1.4MHz

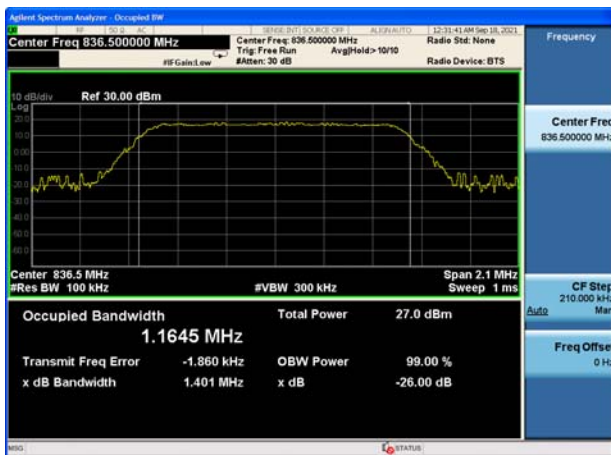


QPSK

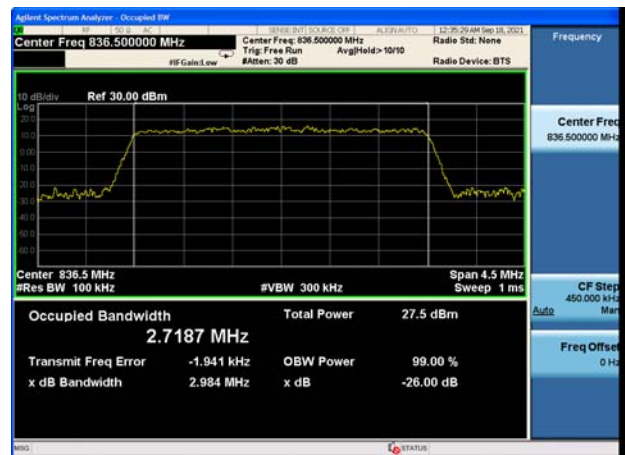
Test Mode: LTE Band 5
Channel Bandwidth: 3MHz



QPSK



16-QAM



16-QAM

Test Mode: LTE Band 5
Channel Bandwidth: 5MHz

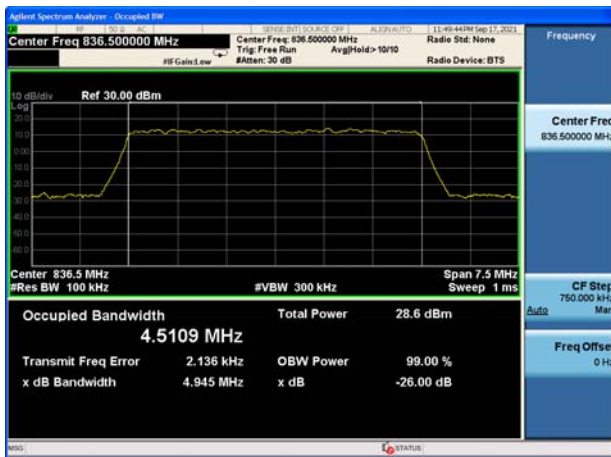


QPSK

Test Mode: LTE Band 5
Channel Bandwidth: 10MHz



QPSK

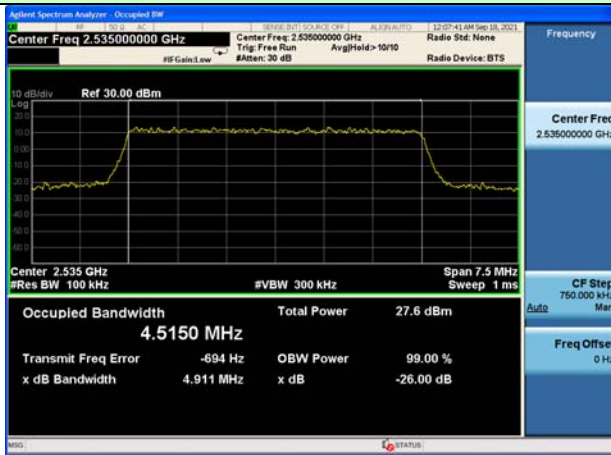


16-QAM



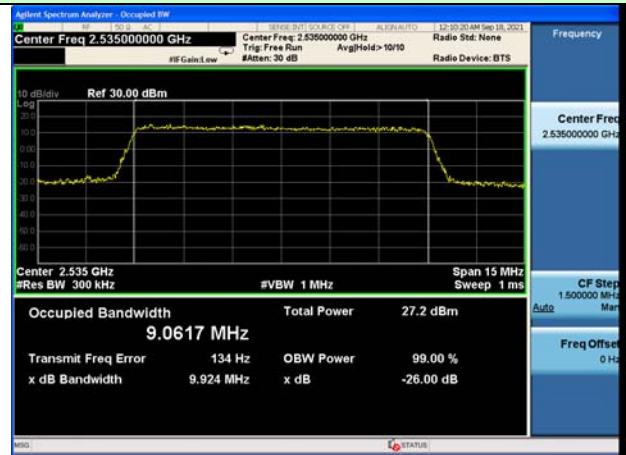
16-QAM

Test Mode: LTE Band 7
Channel Bandwidth: 5MHz



QPSK

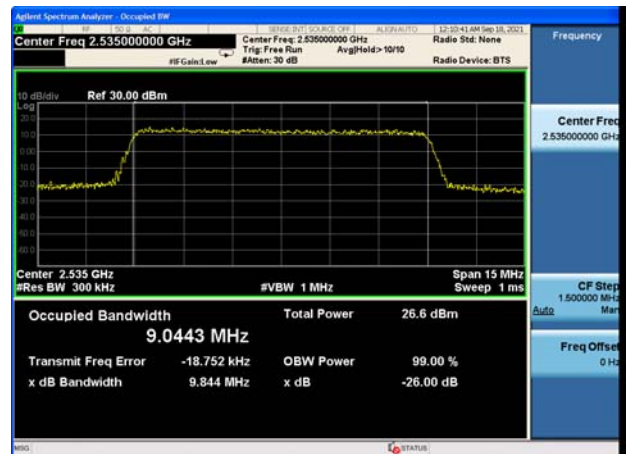
Test Mode: LTE Band 7
Channel Bandwidth: 10MHz



QPSK



16-QAM



16-QAM

Test Mode: LTE Band 7
Channel Bandwidth: 15MHz

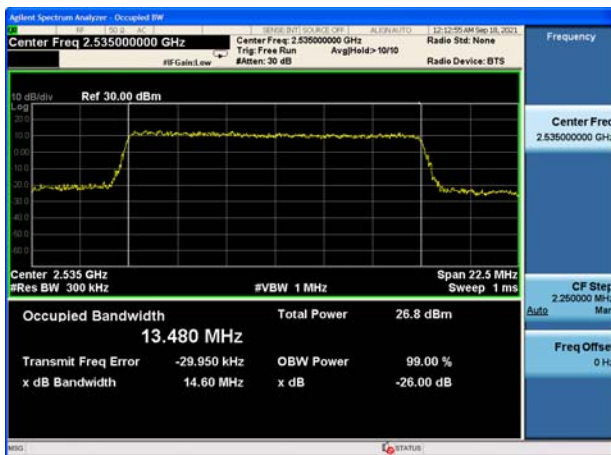


QPSK

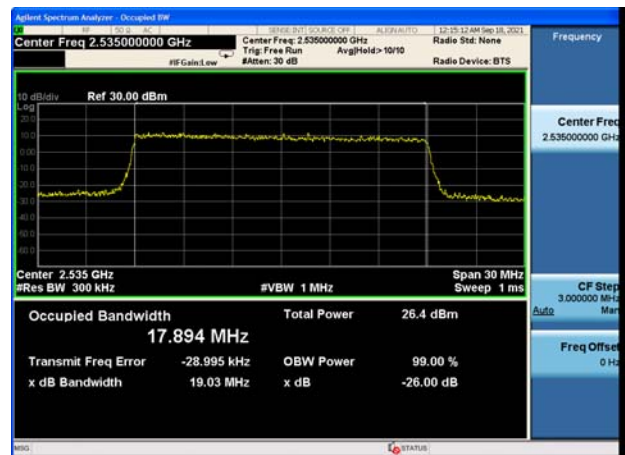
Test Mode: LTE Band 7
Channel Bandwidth: 20MHz



QPSK



16-QAM



16-QAM

Test Mode: LTE Band 12
Channel Bandwidth: 1.4MHz

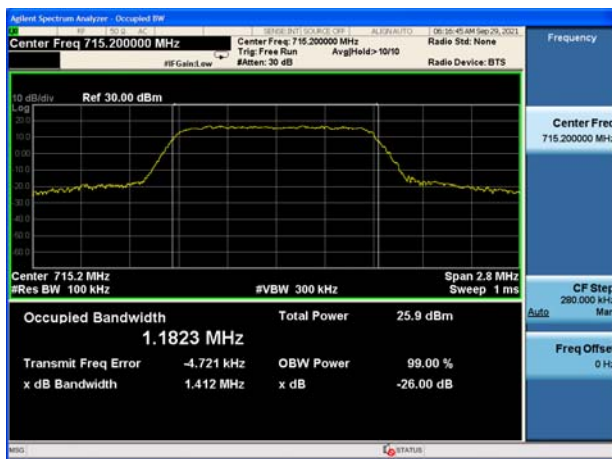


QPSK

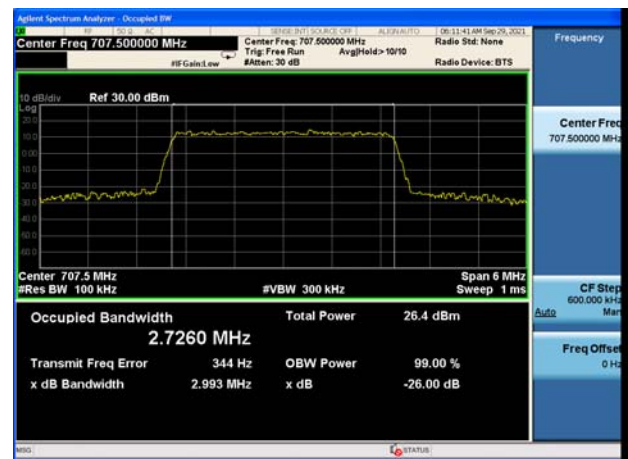
Test Mode: LTE Band 12
Channel Bandwidth: 3MHz



QPSK

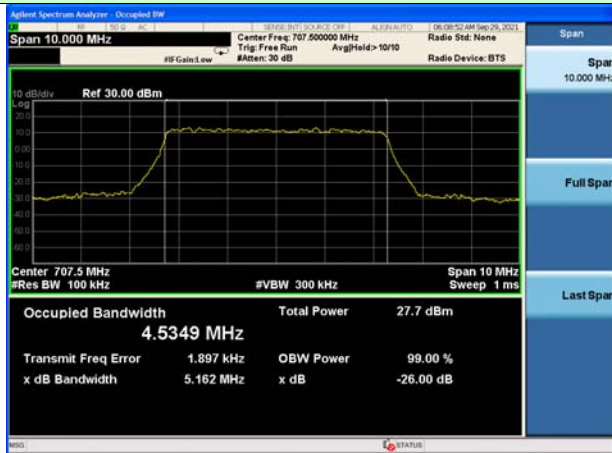


16-QAM



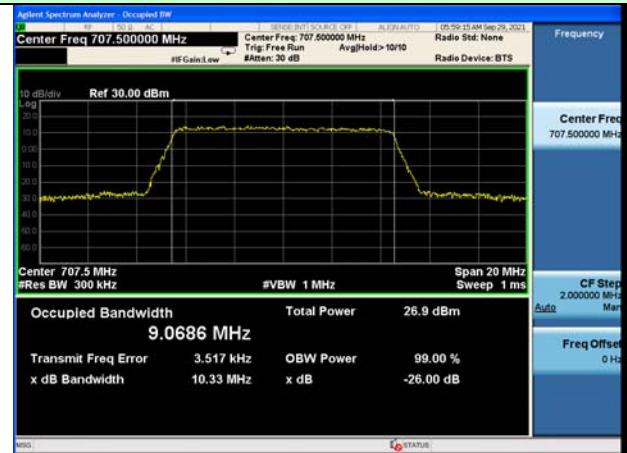
16-QAM

Test Mode: LTE Band 12
Channel Bandwidth: 5MHz



QPSK

Test Mode: LTE Band 12
Channel Bandwidth: 10MHz



QPSK



16-QAM



16-QAM

Test Mode: LTE Band 17
Channel Bandwidth: 5MHz



QPSK

Test Mode: LTE Band 17
Channel Bandwidth: 10MHz



QPSK

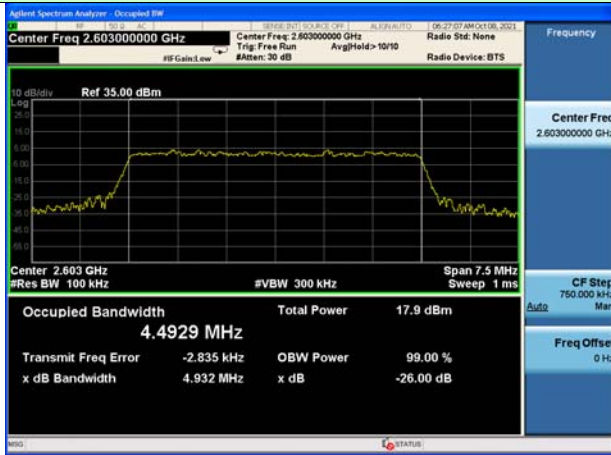


16-QAM



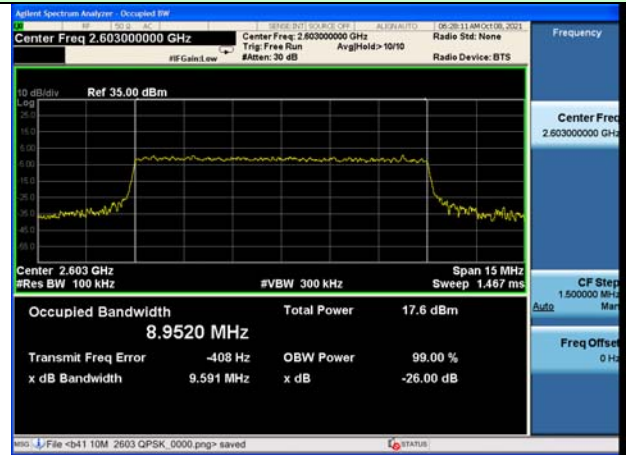
16-QAM

Test Mode: LTE Band 41
Channel Bandwidth: 5MHz

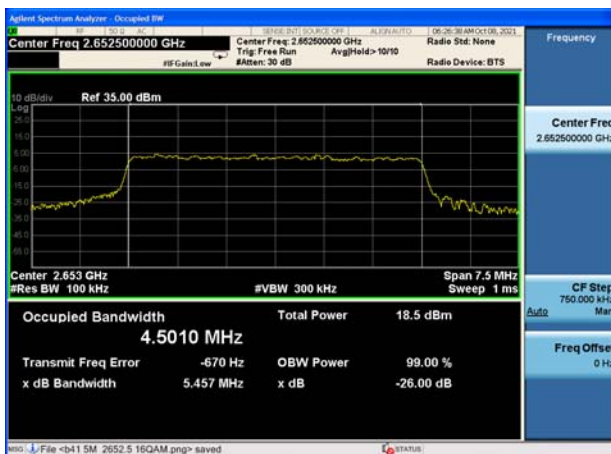


QPSK

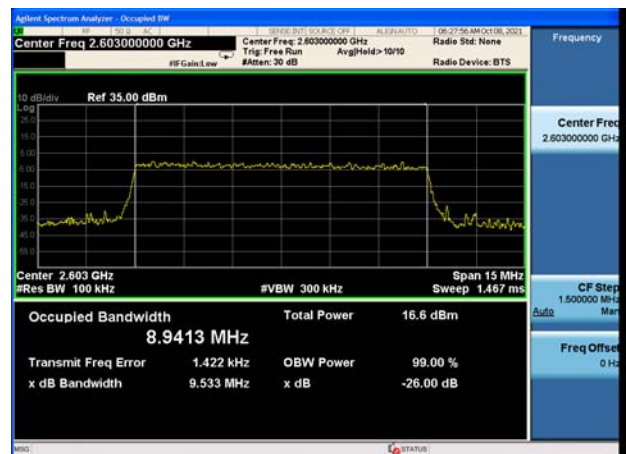
Test Mode: LTE Band 41
Channel Bandwidth: 10MHz



QPSK

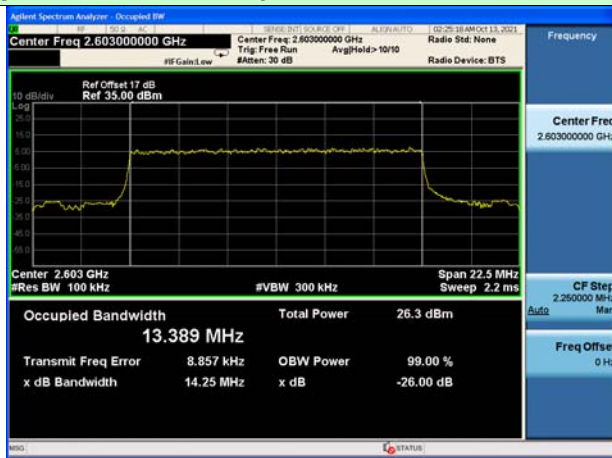


16-QAM

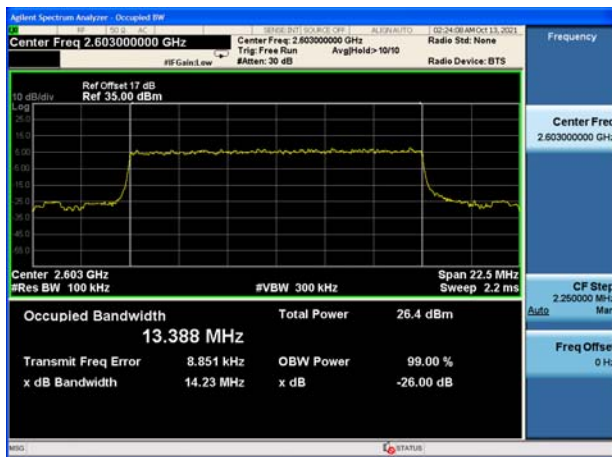


16-QAM

Test Mode: LTE Band 41
Channel Bandwidth: 15MHz

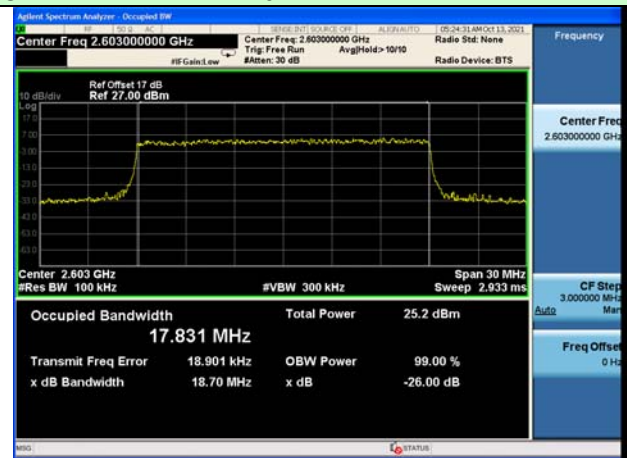


QPSK

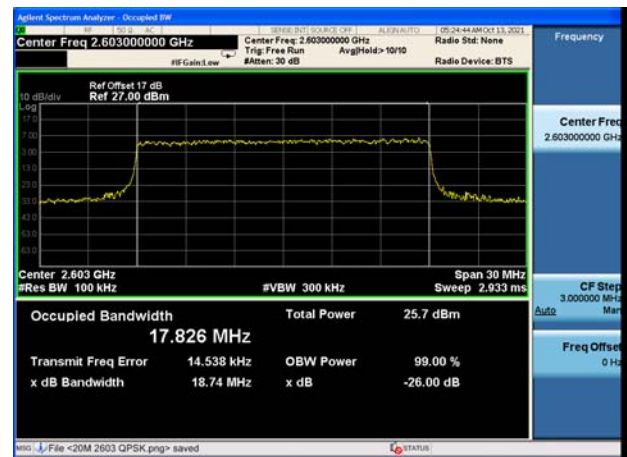


16-QAM

Test Mode: LTE Band 41
Channel Bandwidth: 20MHz



QPSK



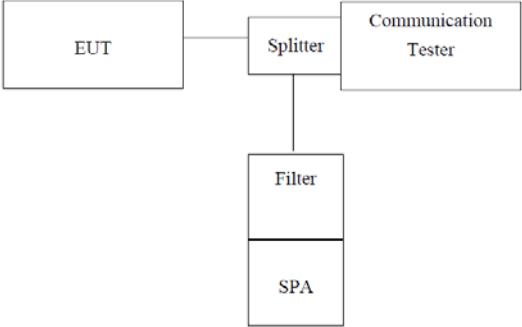
16-QAM

Note: All bandwidth and modulation are tested, only the worst results are reported.

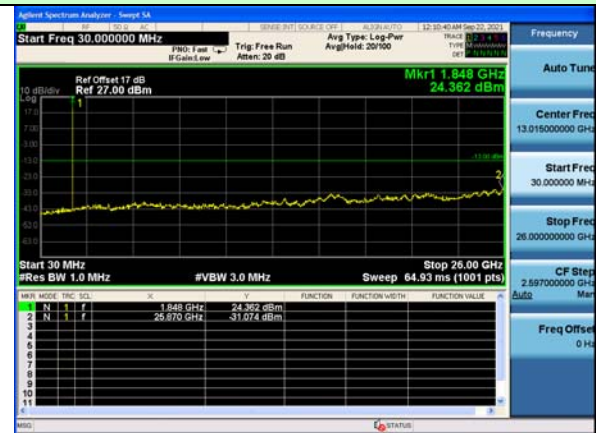
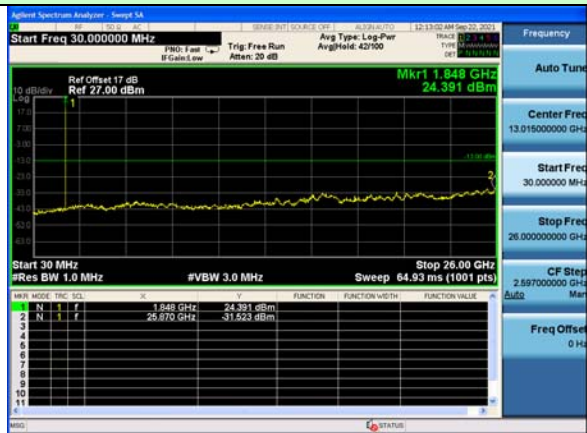
4.6 MODULATION CHARACTERISTIC

According to FCC § 2.1047(d), Part 24E & Part 27 there is no specific requirement for digital modulation, therefore modulation characteristic is not presented.

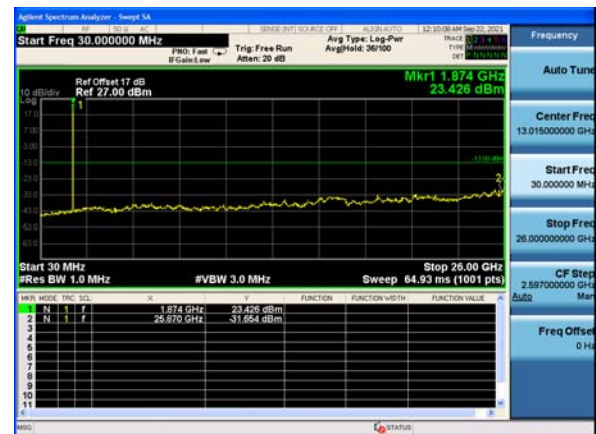
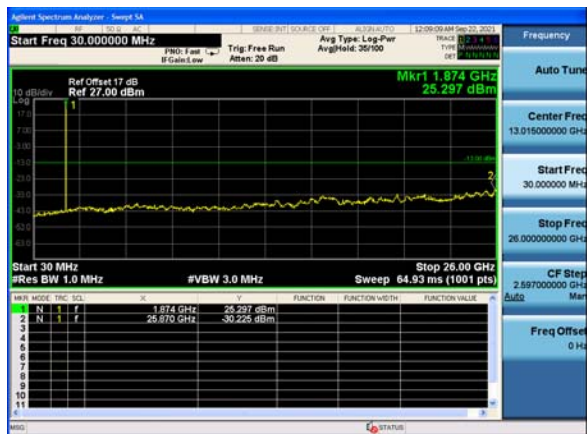
4.7 Out of band emission at antenna terminals

Test Requirement:	FCC part22.913(a), FCC part24.238(a), FCC part27.53(h) and FCC part27.53(m)
Test Method:	ANSI C63.26:2015
Limit:	-13dBm Band 7/41: -25dBm
Test setup:	 <i>Note: Measurement setup for testing on Antenna connector</i>
Test Procedure:	1 The RF output of the transceiver was connected to a spectrum analyzer through appropriate attenuation. 2 The resolution bandwidth of the spectrum analyzer was set at 1MHz, sufficient scans were taken to show the out of band Emissions if any up to 10th harmonic. 3 For the out of band: Set the RBW=1MHz, VBW = 3MHz, Start=30MHz, Stop= 10th harmonic. 4 Band Edge Requirements: In the 1 MHz bands immediately outside and adjacent to the frequency block, a resolution bandwidth of at least 1 percent of the emission bandwidth of the fundamental emission of the transmitter may be employed to measure the out of band Emissions.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

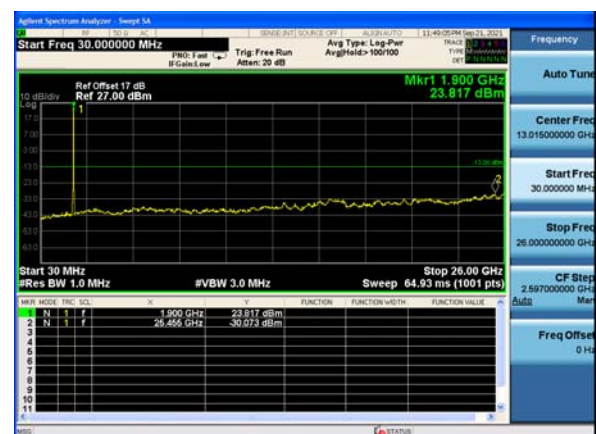
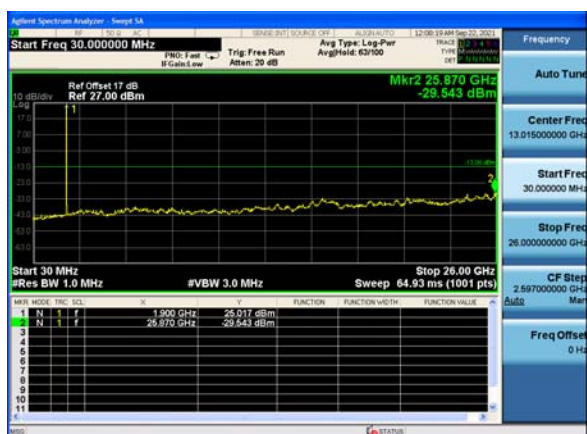
Test plot as follows:

Conducted Spurious Emission:**Test Mode: LTE Band 2 / 1.4MHz /1RB****Test Mode: LTE Band 2 / 1.4MHz /6RB**

Lowest channel

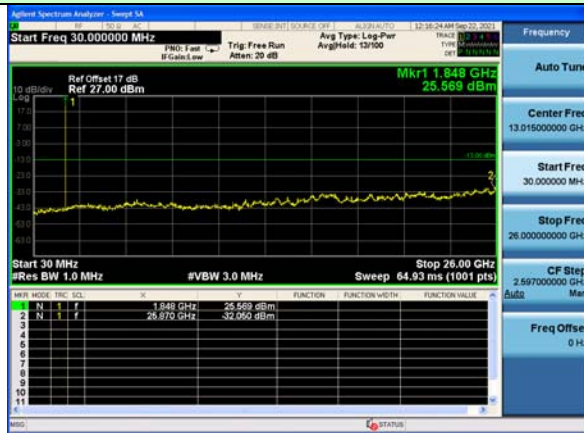


Middle channel

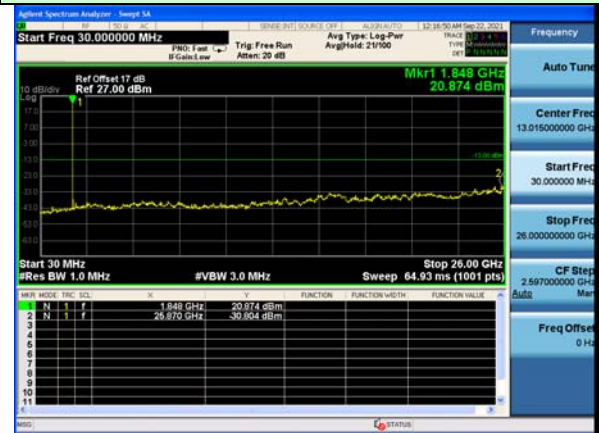


Highest channel

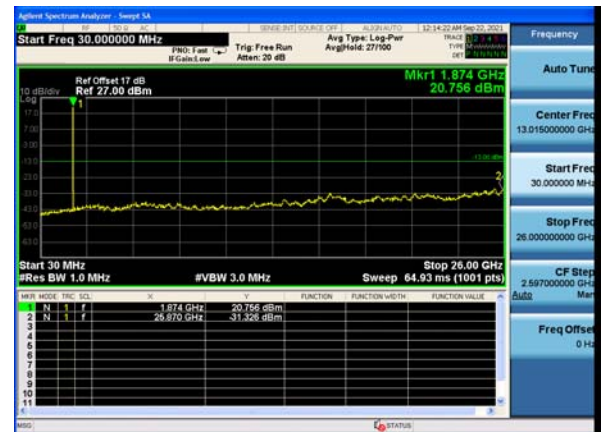
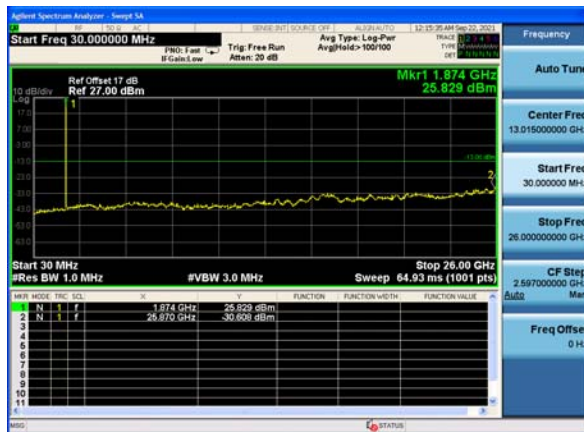
Test Mode: LTE Band 2 / 3MHz /1RB



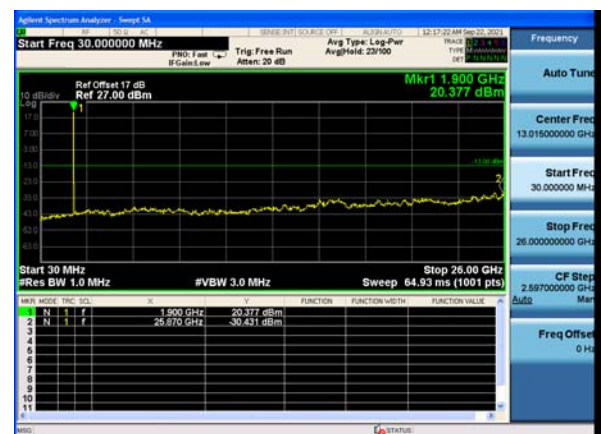
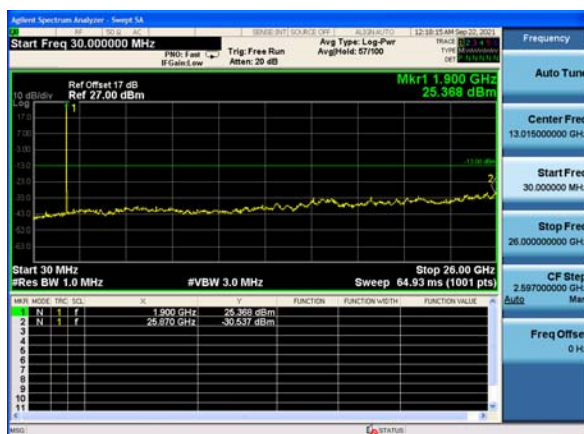
Test Mode: LTE Band 2 / 3MHz /15RB



Lowest channel

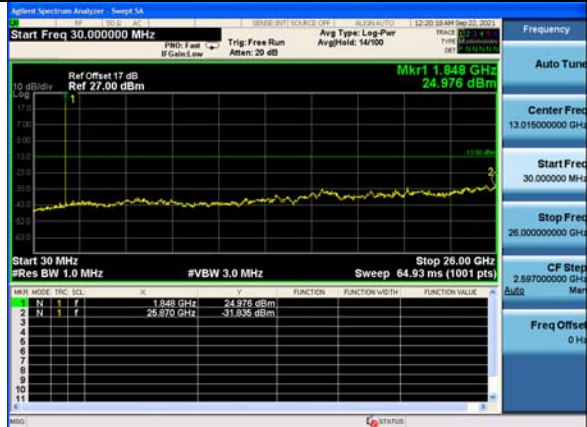


Middle channel

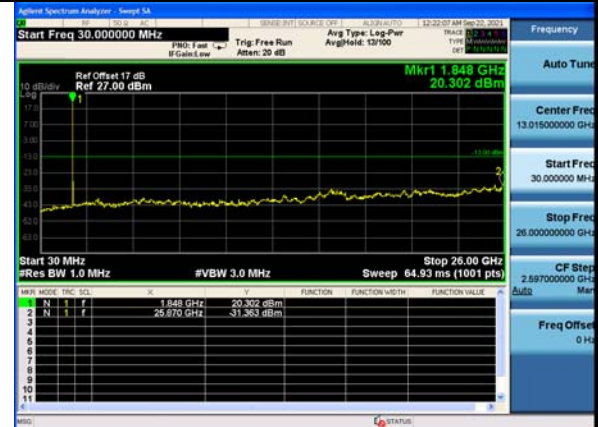


Highest channel

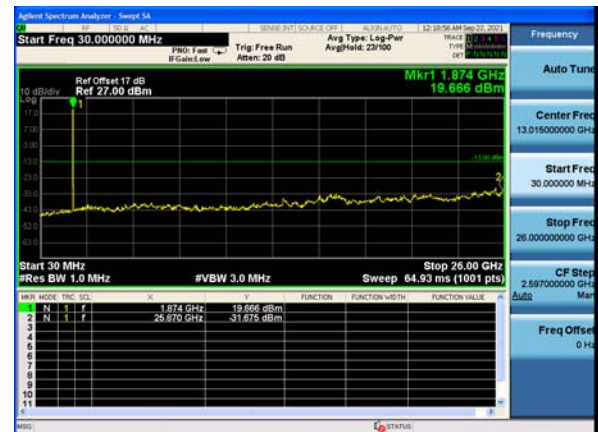
Test Mode: LTE Band 2 / 5MHz /1RB



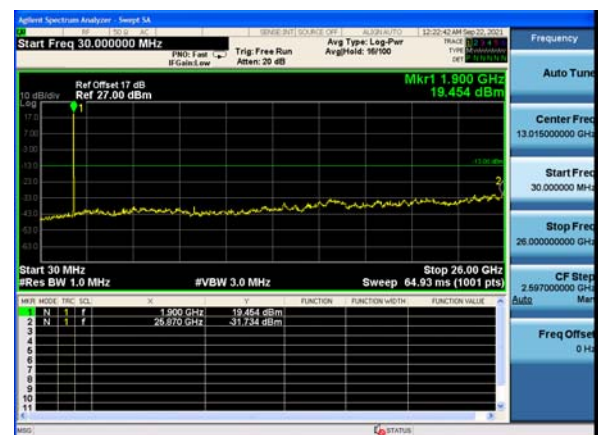
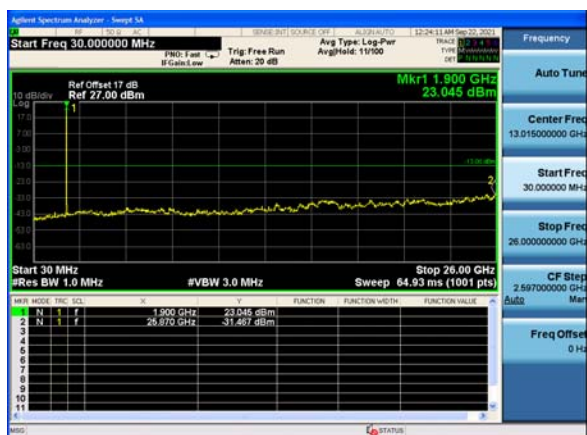
Test Mode: LTE Band 2 / 5MHz /25RB



Lowest channel

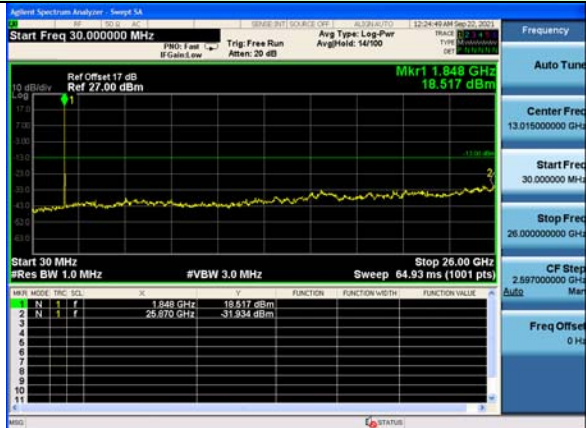


Middle channel

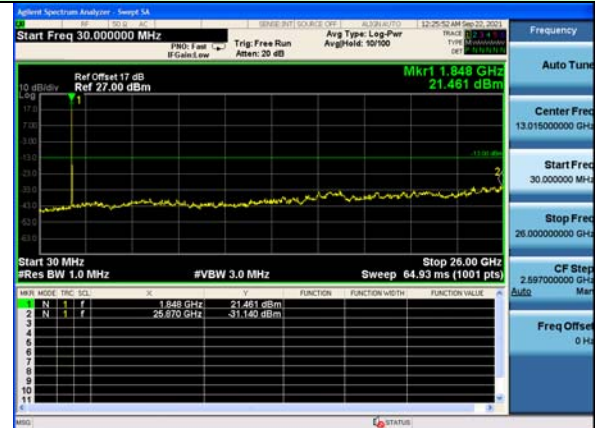


Highest channel

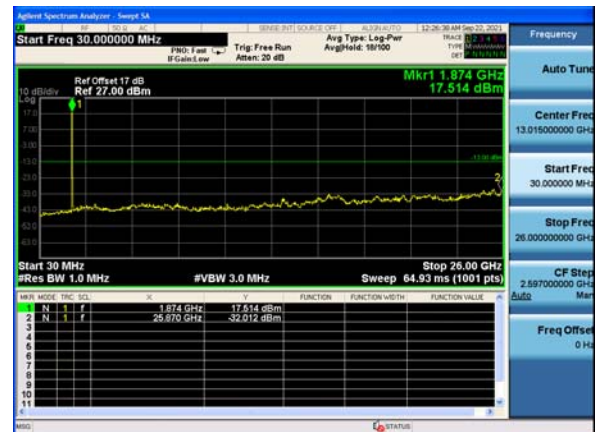
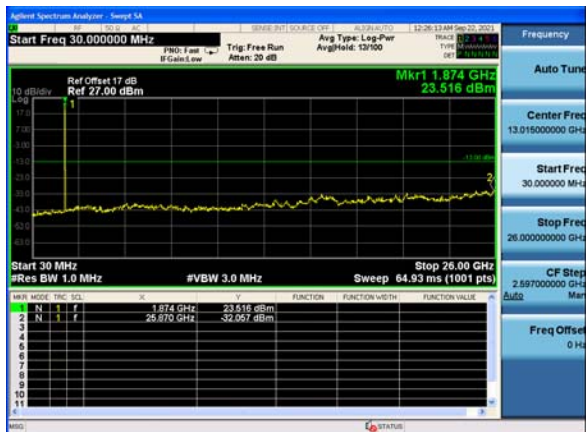
Test Mode: LTE Band 2 / 10MHz /1RB



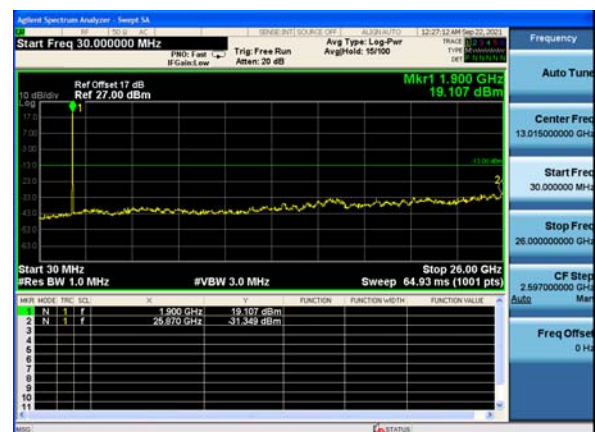
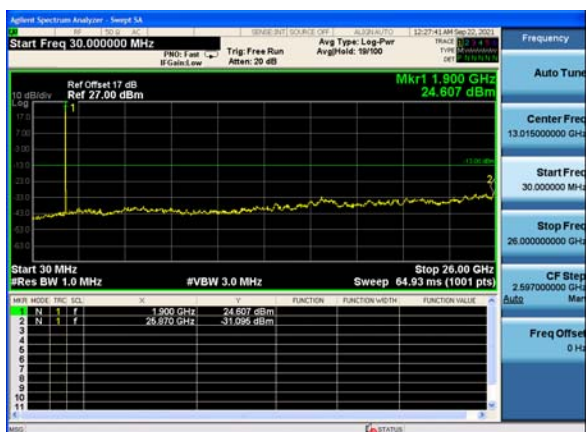
Test Mode: LTE Band 2 / 10MHz /50RB



Lowest channel



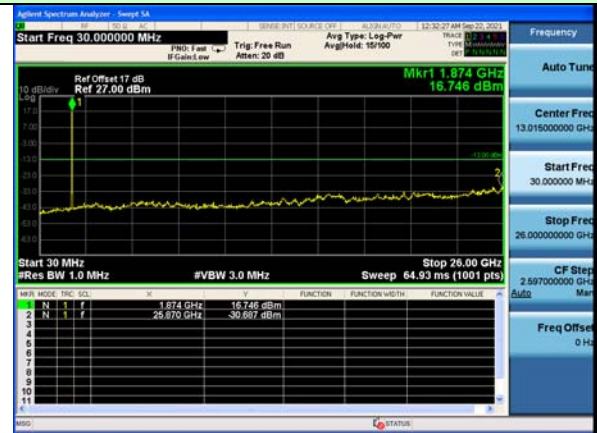
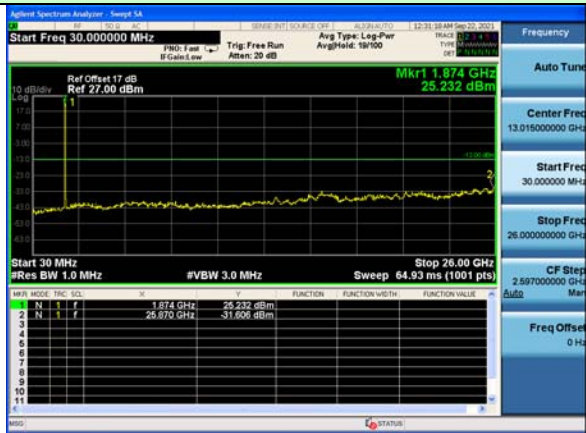
Middle channel



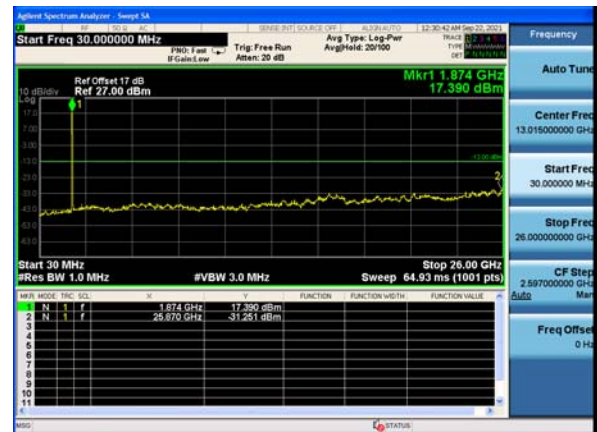
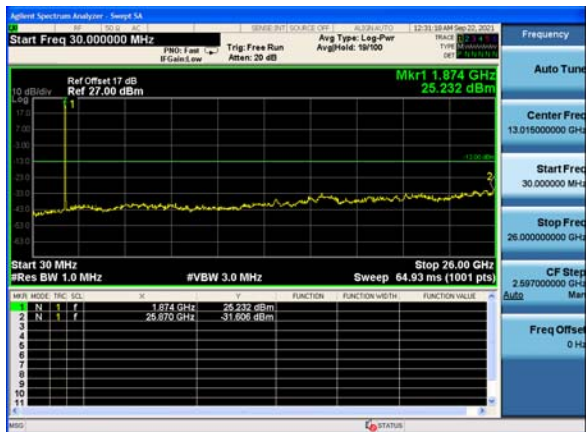
Highest channel

Test Mode: LTE Band 2 / 15MHz /1RB

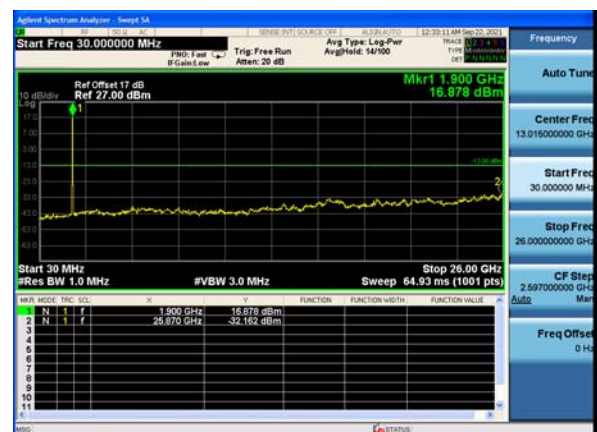
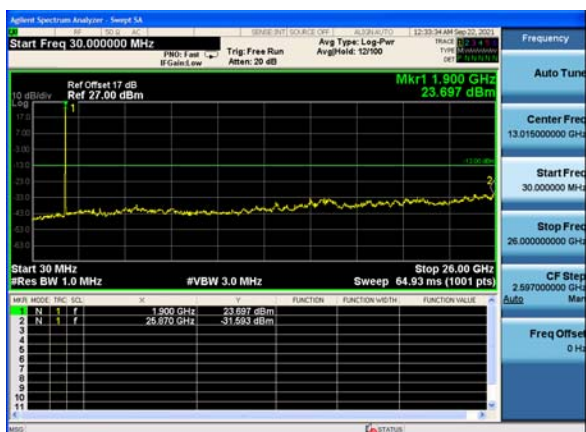
Test Mode: LTE Band 2 / 15MHz /75RB



Lowest channel

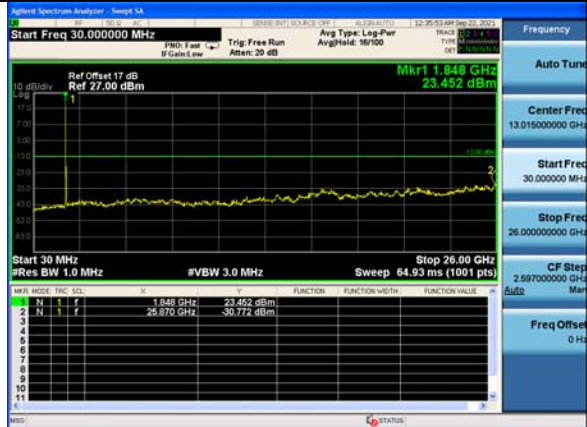


Middle channel

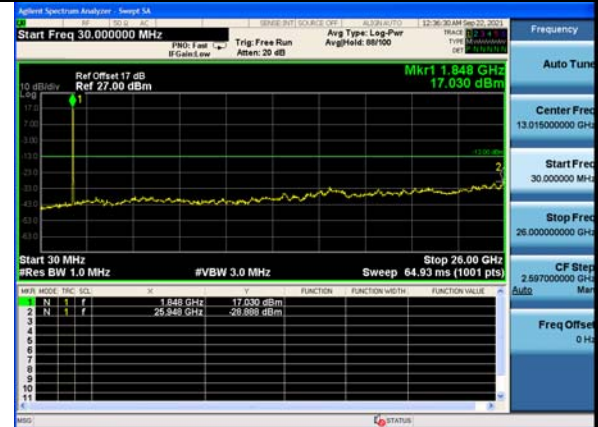


Highest channel

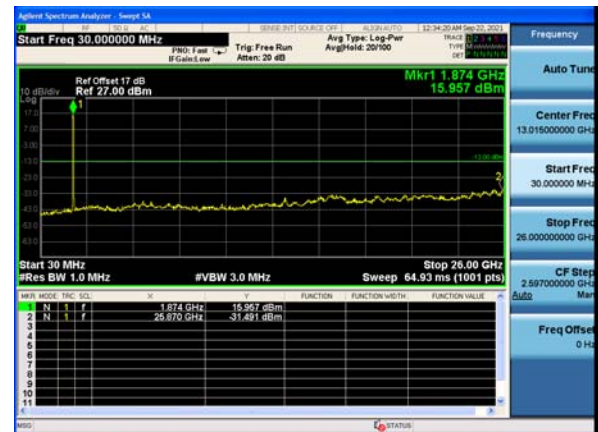
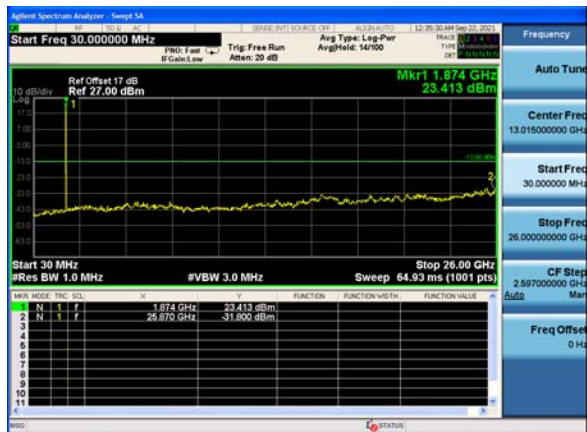
Test Mode: LTE Band 2 / 20MHz /1RB



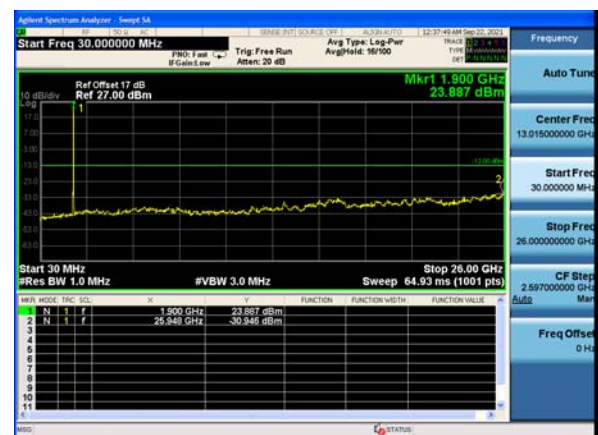
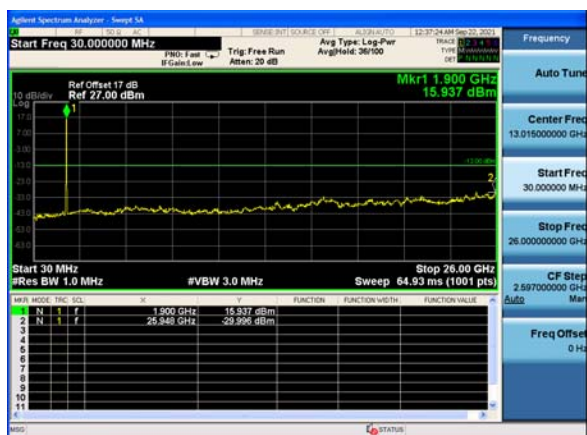
Test Mode: LTE Band 2 / 20MHz /100RB



Lowest channel

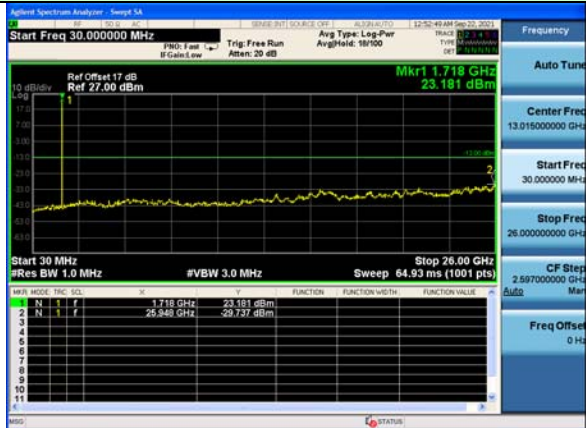


Middle channel

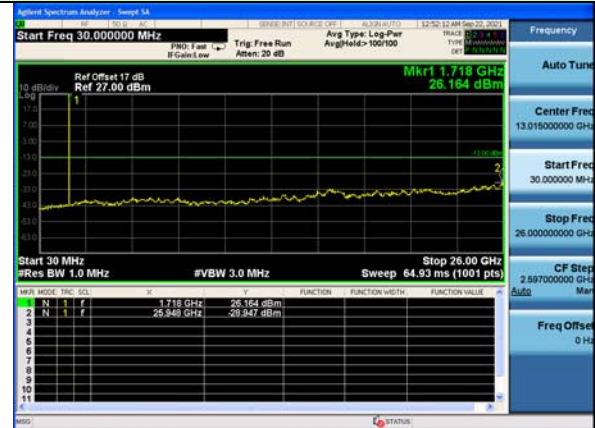


Highest channel

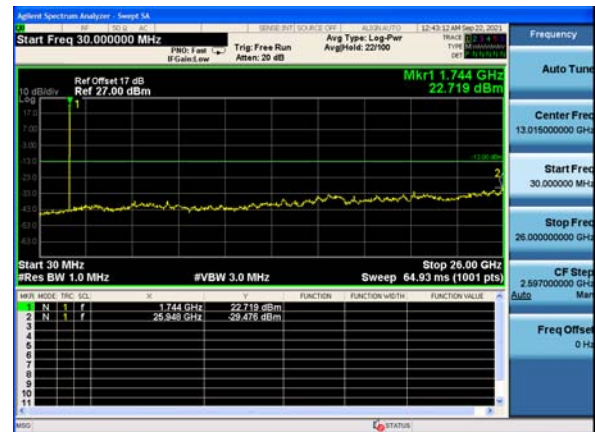
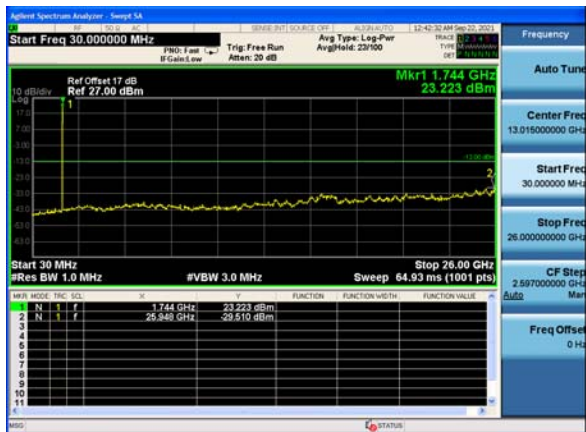
Test Mode: LTE Band 4 / 1.4MHz /1RB



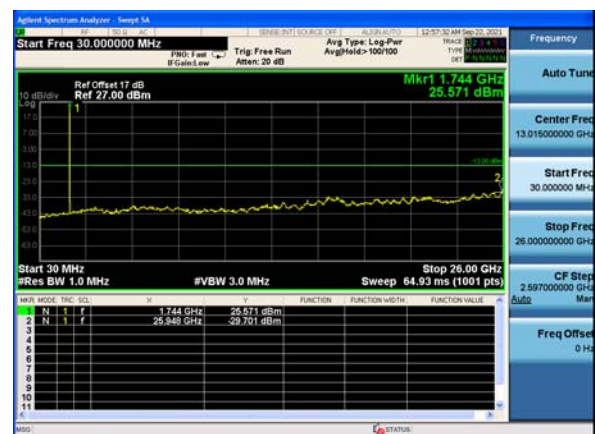
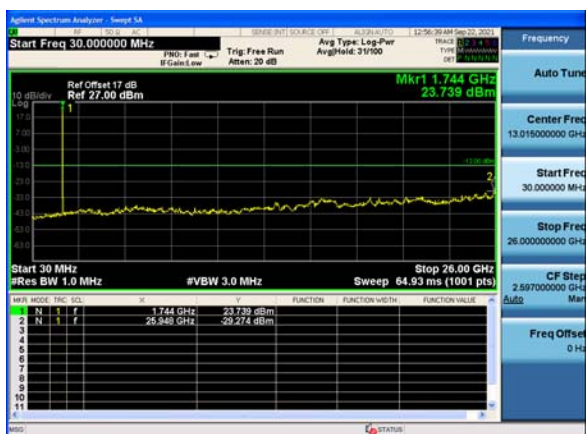
Test Mode: LTE Band 4 / 1.4MHz /6RB



Lowest channel

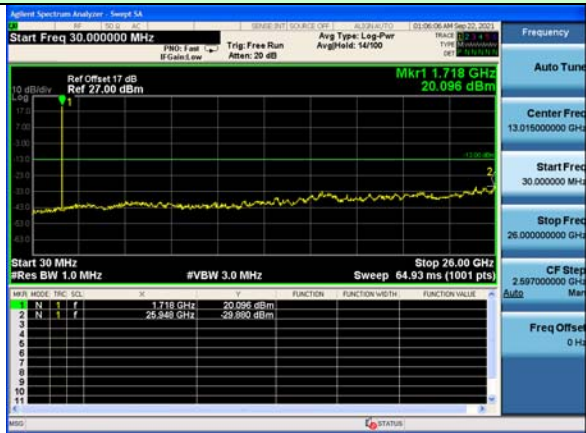


Middle channel

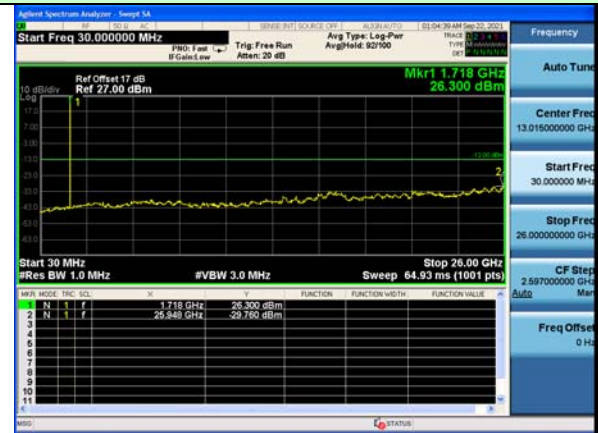


Highest channel

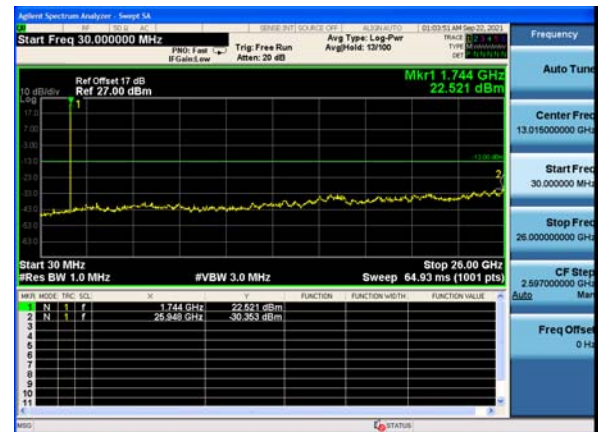
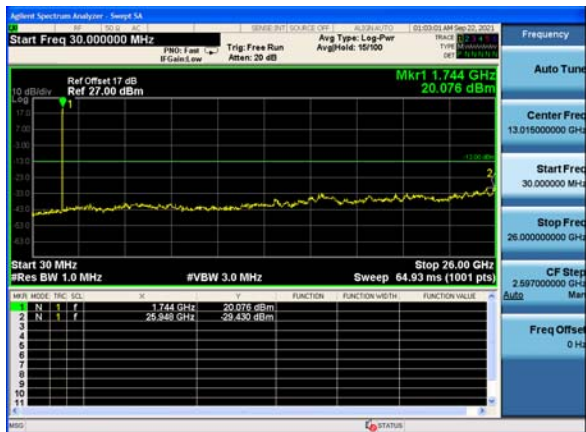
Test Mode: LTE Band 4 / 3MHz /1RB



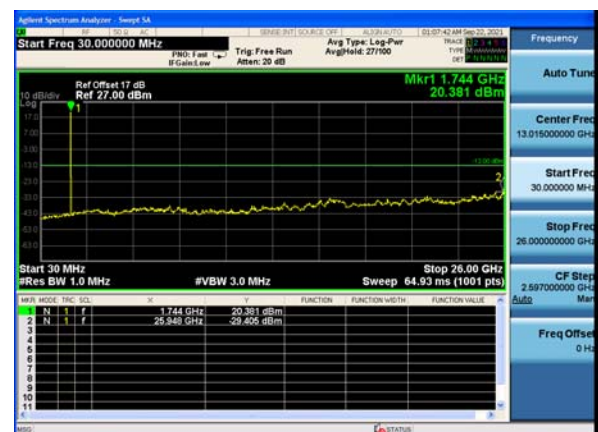
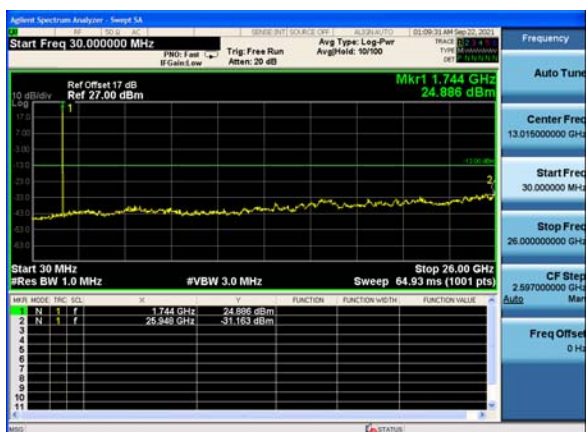
Test Mode: LTE Band 4 / 3MHz /15RB



Lowest channel

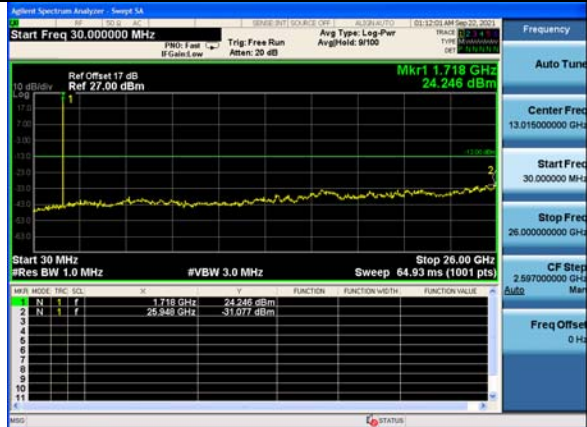


Middle channel

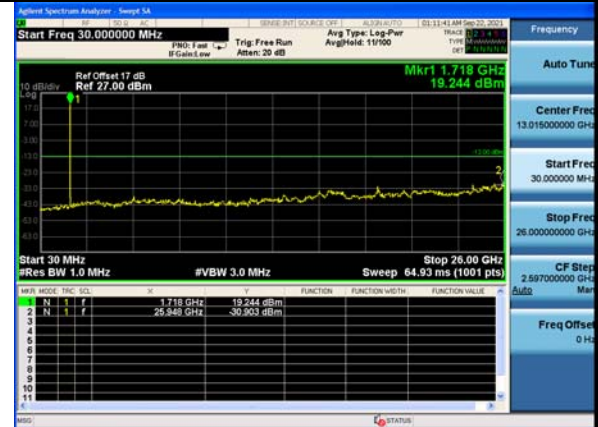


Highest channel

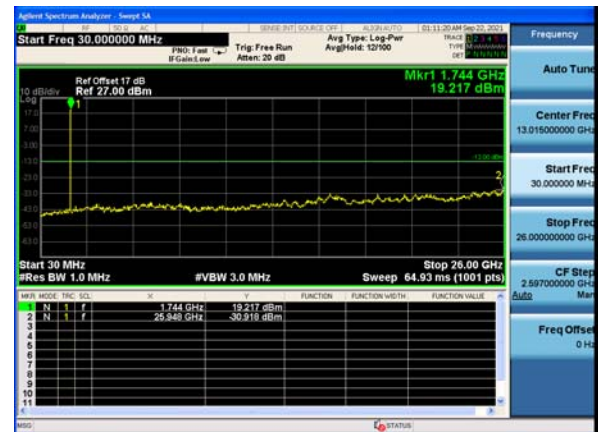
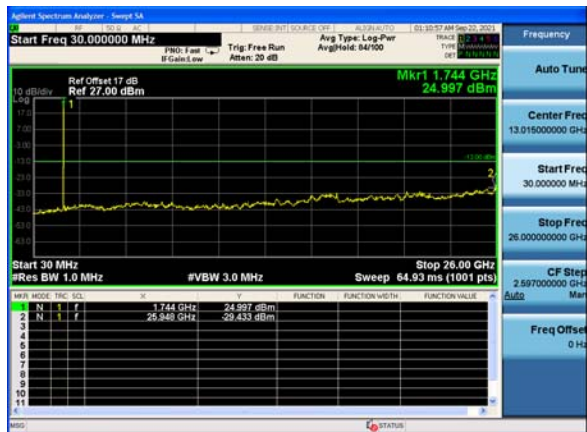
Test Mode: LTE Band 4 / 5MHz /1RB



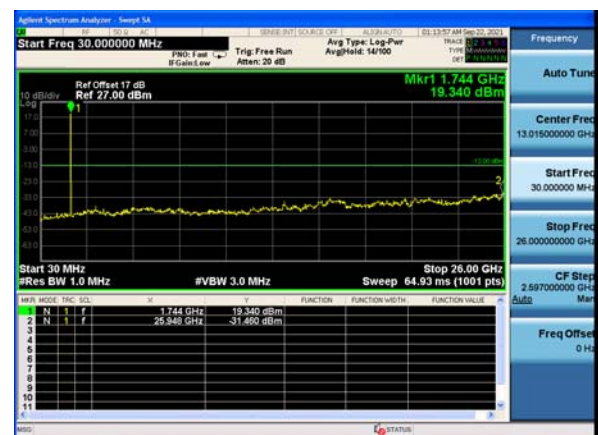
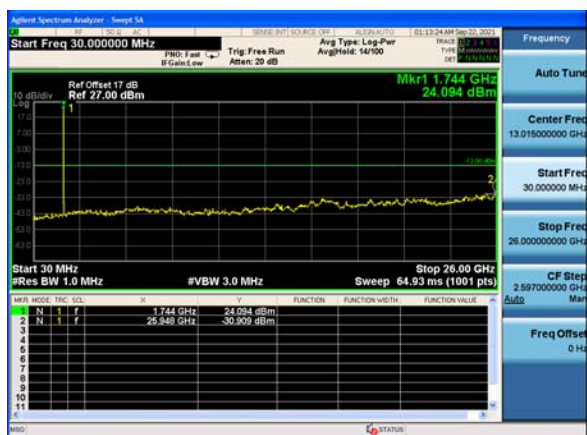
Test Mode: LTE Band 4 / 5MHz /25RB



Lowest channel



Middle channel



Highest channel