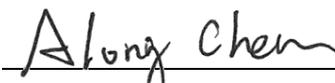


FCC Test Report

FCC ID : QIS-B5338-168
Equipment : LTE Indoor CPE
Model No. : B5338-168
Brand Name : Huawei
Applicant : Huawei Technologies Co., Ltd.
Address : Administration Building, Headquarters of
Huawei Technologies Co., Ltd., Bantian,
Longgang District, Shenzhen, 518129, China.
Standard : 47 CFR FCC Part 27 Subpart M
Received Date : Sep. 23, 2016
Tested Date : Oct. 20 ~ Nov. 25, 2016

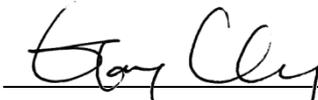
We, International Certification Corp., would like to declare that the tested sample has been evaluated and in compliance with the requirement of the above standards. The test results contained in this report refer exclusively to the product. It may be duplicated completely for legal use with the approval of the applicant. It shall not be reproduced except in full without the written approval of our laboratory.

Reviewed by:



Along Chen / Assistant Manager

Approved by:



Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FW690901-01-1	Rev. 01	Initial issue	Mar. 06, 2017

Summary of Test Results

FCC Rules	Description of Test	Measured	Result
2.1046 / 27.50(h)(2)	Output power	Maximum EIRP: 0.320 W / 5MHz 0.322 W / 10MHz 0.314 W / 15MHz 0.318 W / 20MHz	Pass
2.1053 / 27.53(m)(4)(6)	Radiated Emissions	Meet the requirement of limit	Pass
2.1051 / 27.53(m)(4)(6)	Conducted Emissions	Meet the requirement of limit	Pass
2.1051 / 27.53(m)(4)(6)	Channel Edge Measurement	Meet the requirement of limit	Pass
2.1049(h) / 27.53(m)(6)	Emission Bandwidth	Meet the requirement of limit	Pass
2.1055 / 27.54	Frequency Stability	Meet the requirement of limit	Pass

1 General Description

1.1 Information

1.1.1 Specification of the Equipment under Test (EUT)

Operating Frequency	Channel Bandwidth: 5MHz: 2498.5 MHz ~ 2687.5 MHz Channel Bandwidth: 10MHz: 2501.0 MHz ~ 2685.0 MHz Channel Bandwidth: 15MHz: 2503.5 MHz ~ 2682.5 MHz Channel Bandwidth: 20MHz: 2506.0 MHz ~ 2680.0 MHz
Modulation Type	QPSK, 16QAM, 64QAM (Uplink)
Duplex Mode	TDD
Category	Cat. 12
Release Version	12
H/W Version	WLTMH-121_V02
S/W Version	B5338-168 V100R001C00B05 (09/02/2016)

1.1.2 Maximum Conducted Power and Emission Designator

Channel Bandwidth	Modulation	Maximum EIRP (W)	Emission Designator
5MHz	QPSK	0.320	4M48G7D
5MHz	16QAM	0.284	4M48W7D
5MHz	64QAM	0.286	4M48W7D
10MHz	QPSK	0.322	8M95G7D
10MHz	16QAM	0.284	8M93W7D
10MHz	64QAM	0.285	8M96W7D
15MHz	QPSK	0.314	13M4G7D
15MHz	16QAM	0.275	13M4W7D
15MHz	64QAM	0.274	13M4W7D
20MHz	QPSK	0.318	17M9G7D
20MHz	16QAM	0.286	17M9W7D
20MHz	64QAM	0.286	17M8W7D

1.1.3 Antenna Details

Ant. No.	Type	Gain (dBi)	Connector
1	Dipole	4.1	R-SMA

1.1.4 EUT Operational Condition

Power Supply Type	12Vdc from AC adapter		
Operational Voltage	<input checked="" type="checkbox"/> Vnom (120 V)	<input checked="" type="checkbox"/> Vmax (138 V)	<input checked="" type="checkbox"/> Vmin (102 V)
Operational Climatic	<input checked="" type="checkbox"/> Tnom (20°C)	<input checked="" type="checkbox"/> Tmax (50°C)	<input checked="" type="checkbox"/> Tmin (-30°C)

1.1.5 Accessories

Accessories		
No.	Equipment	Description
1	AC adapter	Brand: APD Model: WB-24D12FU Power Rating: I/P: 100-240Vac, 50/60Hz, 0.6A Max. O/P: 12Vdc, 2A Power Line: 1.5m non-shielded cable w/o core Efficiency Level: VI
2	AC adapter	Brand: SHENZHEN FRECOM Model: F24W7-120200SPAU Power Rating: I/P: 100-240Vac, 50/60Hz, 0.6A O/P: 12Vdc, 2A Power Line: 1.5m non-shielded cable w/o core Efficiency Level: VI
3	Core (x2) for RJ45	Brand: King core Model: KCF-130
4	Core (x1) for RJ11	Brand: King core Model: K5B RC 16x28x9-M2

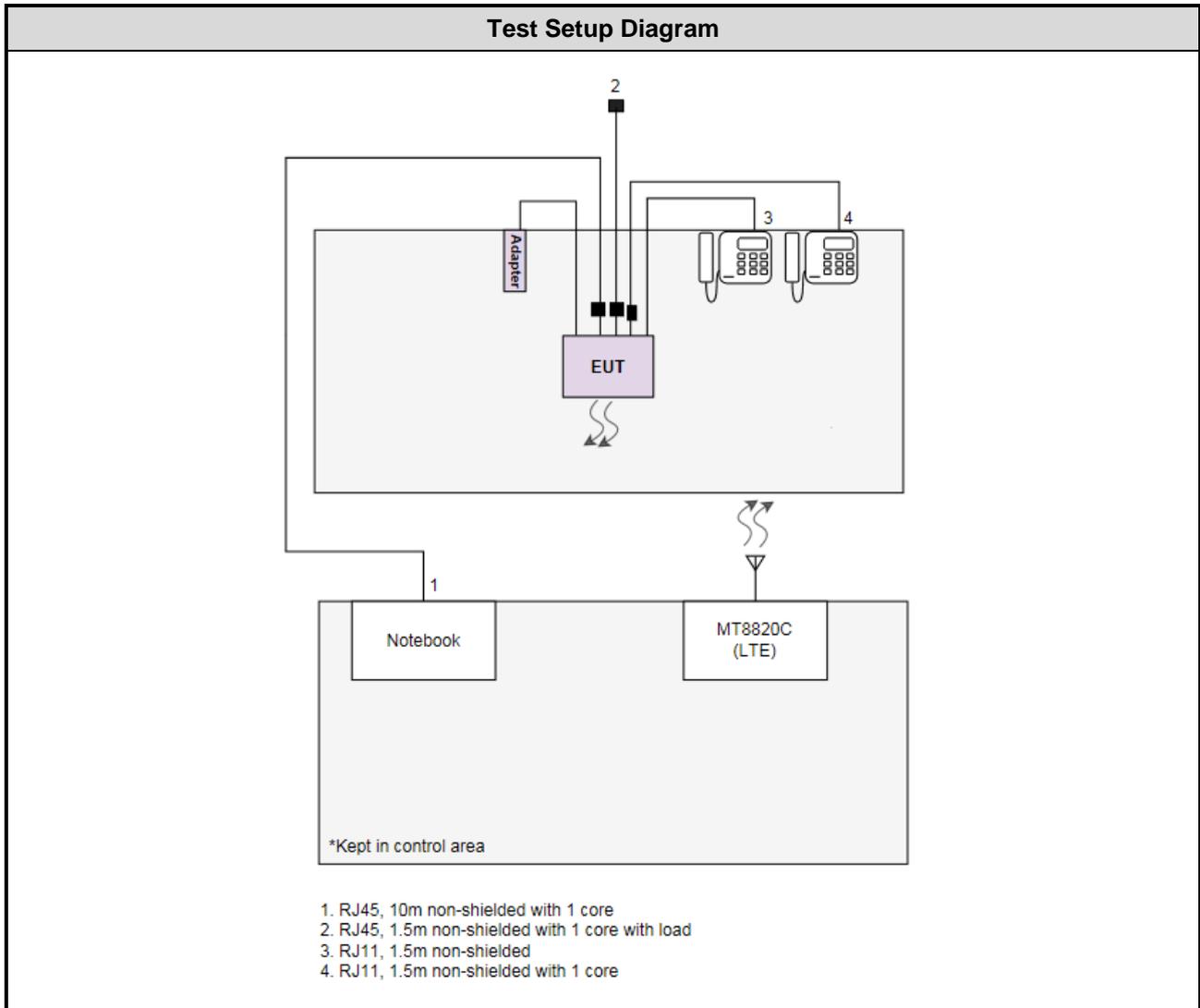
1.1.6 Operating Channel List

Channel Bandwidth (MHz)	Channel	Frequency (MHz)
5	39675	2498.5
5	40620	2593.0
5	41565	2687.5
10	39700	2501.0
10	40620	2593.0
10	41540	2685.0
15	39725	2503.5
15	40620	2593.0
15	41515	2682.5
20	39750	2506.0
20	40620	2593.0
20	41490	2680.0

1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Notebook	DELL	Latitude E5420	B6FT9T1	DoC	RJ45, 10m non-shielded with 1 core.
2	Telephone	HTT	HTT-806	187118	---	RJ11, 1.5m non-shielded with 1 core.
3	Telephone	HTT	HTT-806	188597	---	RJ11, 1.5m non-shielded.
4	RJ45 Load	ICC	---	---	---	RJ45, 10m non-shielded with 1 core.

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Oct. 20, 2016				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Mar. 28, 2016	Mar. 27, 2017
Spectrum Analyzer	R&S	FSV40	101498	Dec. 13, 2015	Dec. 12, 2016
Receiver	R&S	ESR3	101658	Nov. 04, 2015	Nov. 03, 2016
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 04, 2016	Aug. 03, 2017
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 16, 2015	Dec. 15, 2016
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2015	Nov. 03, 2016
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 16, 2015	Nov. 15, 2016
Preamplifier	EMC	EMC02325	980225	Aug. 05, 2016	Aug. 04, 2017
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2016	Oct. 05, 2017
Preamplifier	EMC	EMC184045B	980192	Aug. 24, 2016	Aug. 23, 2017
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 10, 2015	Dec. 09, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 10, 2015	Dec. 09, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 10, 2015	Dec. 09, 2016
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	16052	Dec. 10, 2015	Dec. 09, 2016
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 10, 2015	Dec. 09, 2016
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 10, 2015	Dec. 09, 2016
Measurement Software	AUDIX	e3	6.120210g	NA	NA

Note: Calibration Interval of instruments listed above is one year.

Test Item	Radiated Emission				
Test Site	966 chamber1 / (03CH01-WS)				
Tested Date	Nov. 10, 2016				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Mar. 28, 2016	Mar. 27, 2017
Spectrum Analyzer	R&S	FSV40	101498	Dec. 13, 2015	Dec. 12, 2016
EMC Receiver	R&S	ESR-3	102052	Apr. 19, 2016	Apr. 18, 2017
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-522	Aug. 04, 2016	Aug. 03, 2017
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1096	Dec. 16, 2015	Dec. 15, 2016
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Oct. 25, 2016	Oct. 24, 2017
Loop Antenna	R&S	HFH2-Z2	100330	Nov. 16, 2015	Nov. 15, 2016
Preamplifier	EMC	EMC02325	980225	Aug. 05, 2016	Aug. 04, 2017
Preamplifier	Agilent	83017A	MY39501308	Oct. 06, 2016	Oct. 05, 2017
Preamplifier	EMC	EMC184045B	980192	Aug. 24, 2016	Aug. 23, 2017
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16014/4	Dec. 10, 2015	Dec. 09, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16019/4	Dec. 10, 2015	Dec. 09, 2016
RF Cable	HUBER+SUHNER	SUCOFLEX104	MY16139/4	Dec. 10, 2015	Dec. 09, 2016
LF cable 1M	EMC	EMCCFD400-NM-N M-1000	16052	Dec. 10, 2015	Dec. 09, 2016
LF cable 3M	Woken	CFD400NL-LW	CFD400NL-001	Dec. 10, 2015	Dec. 09, 2016
LF cable 10M	Woken	CFD400NL-LW	CFD400NL-002	Dec. 10, 2015	Dec. 09, 2016
Measurement Software	AUDIX	e3	6.120210g	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Tested Date	Nov. 10 ~ Nov. 25, 2016				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Feb. 17, 2016	Feb. 16, 2017
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 09, 2016	Sep. 08, 2017
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 27, 2015	Nov. 26, 2016
Power Meter	Anritsu	ML2495A	1241002	Oct. 06, 2016	Oct. 05, 2017
Power Sensor	Anritsu	MA2411B	1207366	Oct. 06, 2016	Oct. 05, 2017
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Mar. 28, 2016	Mar. 27, 2017
AC POWER SOURCE	APC	AFC-500W	F312060012	Oct. 28, 2016	Oct. 27, 2017
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

1.5 Test Standards

According to the specification of EUT, the EUT must comply with following standards.

47 CFR FCC Part 27 Subpart M

ANSI C63.4-2014

ANSI / TIA-603-D -2010

FCC KDB 971168 D01 Power Meas License Digital Systems v02r02

FCC KDB 971168 D02 Misc OOBE License Digital Systems v01

FCC KDB 412172 D01 Determining ERP and EIRP v01r01

1.6 Measurement Uncertainty

ISO/IEC 17025 requires that an estimate of the measurement uncertainties associated with the emissions test results be included in the report. The measurement uncertainties given below are based on a 95% confidence level (based on a coverage factor (k=2))

Measurement Uncertainty	
Parameters	Uncertainty
Bandwidth	±34.134 Hz
Conducted power	±0.808 dB
Frequency error	±34.134 Hz
Conducted emission	±2.670 dB
Radiated emission ≤ 1GHz	±3.66 dB
Radiated emission > 1GHz	±5.63 dB
Temperature	±0.6 °C

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
RF conducted	TH01-WS	25°C / 60%	Alex Huang
Radiated Emissions	03CH01-WS	22-24°C / 62%	Kevin Lee

- FCC Designation No.: TW2732
- FCC site registration No.: 181692
- IC site registration No.: 10807A-1

2.2 The Worst Test Modes and Channel Details

Test item	Channel Bandwidth	Modulation	Test channel
Output Power Conducted Emissions Occupied Bandwidth	5 MHz	QPSK / 16QAM / 64QAM	2498.5 / 2593.0 / 2687.5
	10 MHz	QPSK / 16QAM / 64QAM	2501.0 / 2593.0 / 2685.0
	15 MHz	QPSK / 16QAM / 64QAM	2503.5 / 2593.0 / 2682.5
	20 MHz	QPSK / 16QAM / 64QAM	2506.0 / 2593.0 / 2680.0
Radiated Emission ≤ 1GHz	5 MHz	QPSK	2498.5
	10 MHz	QPSK	2501.0
	15 MHz	QPSK	2593.0
	20 MHz	QPSK	2506.0
Radiated Emission > 1GHz	5 MHz	QPSK	2498.5 / 2593.0 / 2687.5
	10 MHz	QPSK	2501.0 / 2593.0 / 2685.0
	15 MHz	QPSK	2503.5 / 2593.0 / 2682.5
	20 MHz	QPSK	2506.0 / 2593.0 / 2680.0
Band Edge	5 MHz	QPSK / 16QAM / 64QAM	2498.5 / 2687.5
	10 MHz	QPSK / 16QAM / 64QAM	2501.0 / 2685.0
	15 MHz	QPSK / 16QAM / 64QAM	2503.5 / 2682.5
	20 MHz	QPSK / 16QAM / 64QAM	2506.0 / 2680.0
Frequency Stability	5 MHz	Un-modulation	2593.0
	10 MHz		2593.0
	15 MHz		2593.0
	20 MHz		2593.0

NOTE:

1. Two adapters had been covered during the pretest and found that **Adapter 2** was the worst case and was selected for final testing (Adapter 1: APD; Adapter 2: SHENZHEN FRECOM).

3 Test Results

3.1 Output Power

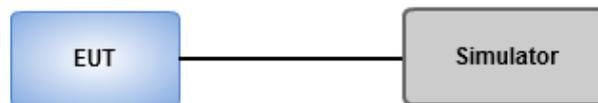
3.1.1 Limit of Output Power

Mobile stations are limited to 2.0 watts EIRP

3.1.2 Test Procedures

1. The EUT links up with simulator and is set to maximum output power level at low / middle / high channel.
2. Measure the output power of low / middle / high channel of the EUT.
3. Determine the EIRP by adding the effective antenna gain to the adjusted power level.

3.1.3 Test Setup



3.1.4 Test Result of EIRP

Channel Bandwidth: 5MHz- QPSK

Channel	Channel Frequency (MHz)	Conducted Output Power (dBm)	Max. Ant. Gain(dBi)	EIRP (dBm)	EIRP (W)	LIMIT (W)
39675	2498.5	20.95	4.1	25.05	0.320	2
40620	2593.0	20.78	4.1	24.88	0.308	2
41565	2687.5	20.80	4.1	24.90	0.309	2

Channel Bandwidth: 5MHz- 16QAM

Channel	Channel Frequency (MHz)	Conducted Output Power (dBm)	Max. Ant. Gain(dBi)	EIRP (dBm)	EIRP (W)	LIMIT (W)
39675	2498.5	20.43	4.1	24.53	0.284	2
40620	2593.0	20.20	4.1	24.30	0.269	2
41565	2687.5	20.23	4.1	24.33	0.271	2

Channel Bandwidth: 5MHz- 64QAM

Channel	Channel Frequency (MHz)	Conducted Output Power (dBm)	Max. Ant. Gain(dBi)	EIRP (dBm)	EIRP (W)	LIMIT (W)
39675	2498.5	20.47	4.1	24.57	0.286	2
40620	2593.0	20.18	4.1	24.28	0.268	2
41565	2687.5	20.21	4.1	24.31	0.270	2

Channel Bandwidth: 10MHz- QPSK

Channel	Channel Frequency (MHz)	Conducted Output Power (dBm)	Max. Ant. Gain(dBi)	EIRP (dBm)	EIRP (W)	LIMIT (W)
39700	2501.0	20.98	4.1	25.08	0.322	2
40620	2593.0	20.79	4.1	24.89	0.308	2
41540	2685.0	20.64	4.1	24.74	0.298	2

Channel Bandwidth: 10MHz- 16QAM

Channel	Channel Frequency (MHz)	Conducted Output Power (dBm)	Max. Ant. Gain(dBi)	EIRP (dBm)	EIRP (W)	LIMIT (W)
39700	2501.0	20.44	4.1	24.54	0.284	2
40620	2593.0	20.37	4.1	24.47	0.280	2
41540	2685.0	20.16	4.1	24.26	0.267	2

Channel Bandwidth: 10MHz- 64QAM

Channel	Channel Frequency (MHz)	Conducted Output Power (dBm)	Max. Ant. Gain(dBi)	EIRP (dBm)	EIRP (W)	LIMIT (W)
39700	2501.0	20.45	4.1	24.55	0.285	2
40620	2593.0	20.33	4.1	24.43	0.277	2
41540	2685.0	20.17	4.1	24.27	0.267	2

Channel Bandwidth: 15MHz- QPSK

Channel	Channel Frequency (MHz)	Conducted Output Power (dBm)	Max. Ant. Gain(dBi)	EIRP (dBm)	EIRP (W)	LIMIT (W)
39725	2503.5	20.81	4.1	24.91	0.310	2
40620	2593.0	20.87	4.1	24.97	0.314	2
41515	2682.5	20.58	4.1	24.68	0.294	2

Channel Bandwidth: 15MHz- 16QAM

Channel	Channel Frequency (MHz)	Conducted Output Power (dBm)	Max. Ant. Gain(dBi)	EIRP (dBm)	EIRP (W)	LIMIT (W)
39725	2503.5	20.29	4.1	24.39	0.275	2
40620	2593.0	20.27	4.1	24.37	0.274	2
41515	2682.5	20.05	4.1	24.15	0.260	2

Channel Bandwidth: 15MHz- 64QAM

Channel	Channel Frequency (MHz)	Conducted Output Power (dBm)	Max. Ant. Gain(dBi)	EIRP (dBm)	EIRP (W)	LIMIT (W)
39725	2503.5	20.28	4.1	24.38	0.274	2
40620	2593.0	20.27	4.1	24.37	0.274	2
41515	2682.5	20.04	4.1	24.14	0.259	2

Channel Bandwidth: 20MHz- QPSK

Channel	Channel Frequency (MHz)	Conducted Output Power (dBm)	Max. Ant. Gain(dBi)	EIRP (dBm)	EIRP (W)	LIMIT (W)
39750	2506.0	20.93	4.1	25.03	0.318	2
40620	2593.0	20.92	4.1	25.02	0.318	2
41490	2680.0	20.68	4.1	24.78	0.301	2

Channel Bandwidth: 20MHz- 16QAM

Channel	Channel Frequency (MHz)	Conducted Output Power (dBm)	Max. Ant. Gain(dBi)	EIRP (dBm)	EIRP (W)	LIMIT (W)
39750	2506.0	20.46	4.1	24.56	0.286	2
40620	2593.0	20.40	4.1	24.50	0.282	2
41490	2680.0	20.13	4.1	24.23	0.265	2

Channel Bandwidth: 20MHz- 64QAM

Channel	Channel Frequency (MHz)	Conducted Output Power (dBm)	Max. Ant. Gain(dBi)	EIRP (dBm)	EIRP (W)	LIMIT (W)
39750	2506.0	20.47	4.1	24.57	0.286	2
40620	2593.0	20.35	4.1	24.45	0.279	2
41490	2680.0	20.17	4.1	24.27	0.267	2

3.2 Radiated Emissions

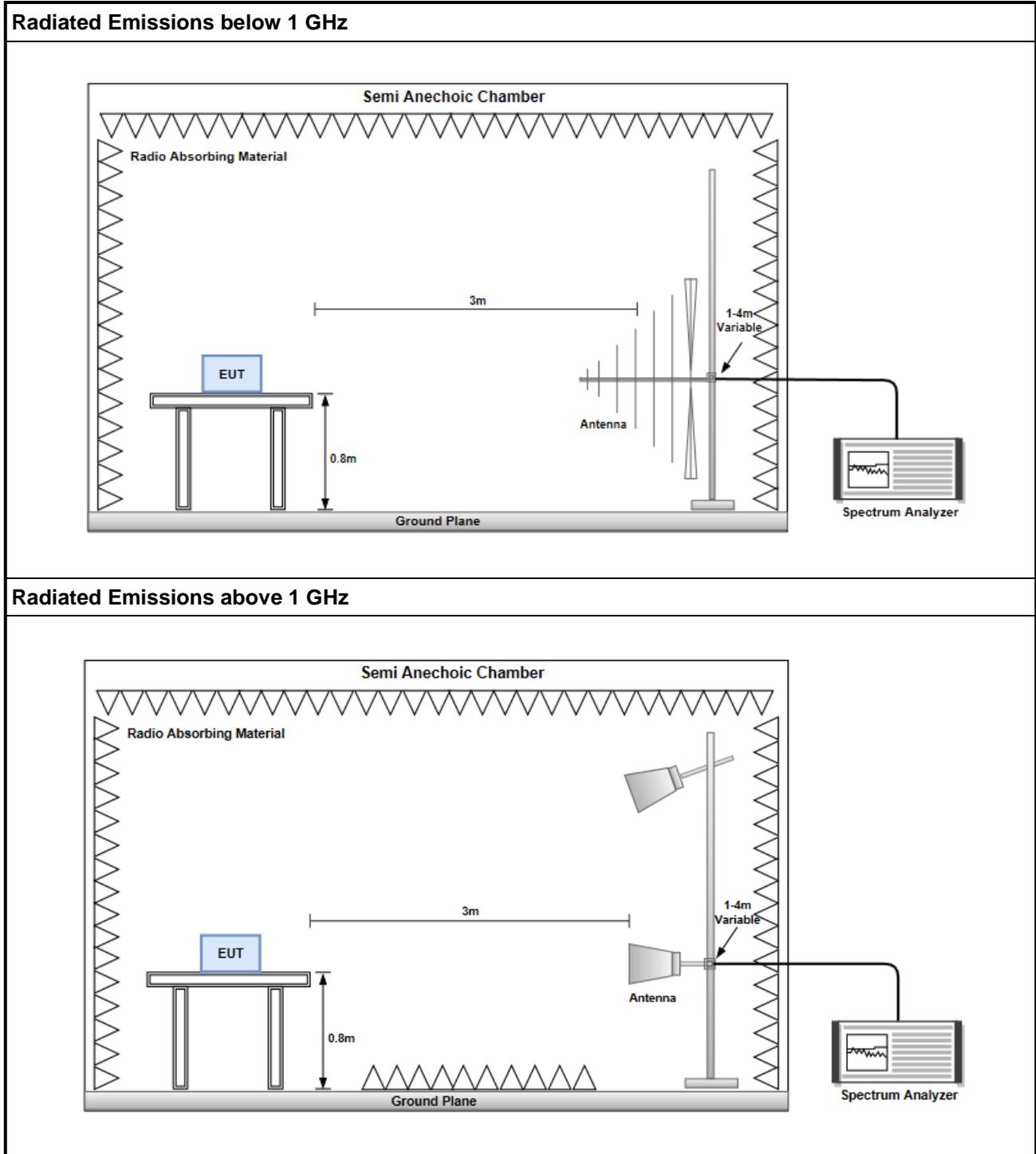
3.2.1 Limit of Radiated Emissions

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB equal to -25dBm.

3.2.2 Test Procedures

1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at a height of 0.8 m test table above the ground plane.
2. Measurement is made with the antenna positioned in both the horizontal and vertical planes of polarization. The measurement antenna is varied in height (1m ~ 4m) above the reference ground plane to obtain the maximum signal strength. Distance between EUT and antenna is 3 m.
3. This investigation is performed with the EUT rotated 360°, the antenna height scanned between 1 m and 4 m, and the antenna rotated to repeat the measurements for both the horizontal and vertical antenna polarizations.
4. After finding the max radiated emission, substitution method will be used for getting effective radiated power. EUT will be removed and substitution antenna will be placed at same position. Signal generator will output CW signal to substitution antenna through a RF cable. Rotate turntable and move antenna to find maximum radiated emission. Adjust output power of signal generator to let the maximum radiated emission is same as step 3. Record the output power level.
5. $E.I.R.P = \text{output power of step 4} + \text{gain of substitution antenna} - \text{cable loss of RF cable}$.

3.2.3 Test Setup



3.2.4 Test Result of Radiated Emissions below 1GHz

Mode		CB:5MHz, Channel:36975					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
49.40	H	-55.93	-25.00	-30.93	-54.86	-45.06	-10.87
102.75	H	-53.22	-25.00	-28.22	-46.51	-53.37	0.15
140.58	H	-56.84	-25.00	-31.84	-51.41	-55.27	-1.57
398.87	H	-60.70	-25.00	-35.70	-57.90	-64.95	4.25
501.42	H	-58.68	-25.00	-33.68	-57.38	-62.96	4.28
1000.00	H	-51.38	-25.00	-26.38	-57.29	-53.93	2.55
49.40	V	-47.34	-25.00	-22.34	-40.48	-36.47	-10.87
126.03	V	-56.20	-25.00	-31.20	-50.88	-55.10	-1.10
196.84	V	-59.90	-25.00	-34.90	-55.47	-64.35	4.45
424.79	V	-58.24	-25.00	-33.24	-55.93	-62.35	4.11
495.60	V	-58.41	-25.00	-33.41	-57.70	-62.67	4.26
1000.00	V	-48.34	-25.00	-23.34	-56.04	-50.89	2.55

Note: EIRP = S.G Power value + Correction factor.

Mode		CB:10MHz, Channel:39700					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
48.43	H	-57.12	-25.00	-32.12	-56.81	-46.06	-11.06
102.75	H	-55.02	-25.00	-30.02	-48.31	-55.17	0.15
140.58	H	-56.18	-25.00	-31.18	-50.75	-54.61	-1.57
388.90	H	-60.86	-25.00	-35.86	-58.04	-65.14	4.28
501.42	H	-59.52	-25.00	-34.52	-58.22	-63.80	4.28
1000.00	H	-52.50	-25.00	-27.50	-58.41	-55.05	2.55
49.40	V	-47.54	-25.00	-22.54	-40.68	-36.67	-10.87
126.03	V	-57.67	-25.00	-32.67	-52.35	-56.57	-1.10
194.90	V	-59.17	-25.00	-34.17	-54.82	-63.10	3.93
442.25	V	-58.45	-25.00	-33.45	-56.41	-62.45	4.00
501.42	V	-58.47	-25.00	-33.47	-57.94	-62.75	4.28
1000.00	V	-48.32	-25.00	-23.32	-56.02	-50.87	2.55

Note: EIRP = S.G Power value + Correction factor.

Mode		CB:15MHz, Channel:40620					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
48.43	H	-56.73	-25.00	-31.73	-56.42	-45.67	-11.06
126.03	H	-58.63	-25.00	-33.63	-52.24	-57.53	-1.10
251.16	H	-63.15	-25.00	-38.15	-55.23	-67.57	4.42
404.42	H	-60.42	-25.00	-35.42	-57.87	-64.64	4.22
501.42	H	-60.09	-25.00	-35.09	-58.79	-64.37	4.28
1000.00	H	-53.08	-25.00	-28.08	-58.99	-55.63	2.55
49.40	V	-47.99	-25.00	-22.99	-41.13	-37.12	-10.87
126.03	V	-56.98	-25.00	-31.98	-51.66	-55.88	-1.10
192.96	V	-59.58	-25.00	-34.58	-55.32	-63.29	3.71
443.22	V	-60.10	-25.00	-35.10	-58.10	-64.10	4.00
501.42	V	-59.09	-25.00	-34.09	-58.56	-63.37	4.28
1000.00	V	-48.09	-25.00	-23.09	-55.79	-50.64	2.55

Note: EIRP = S.G Power value + Correction factor.

Mode		CB:20MHz, Channel:39750					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
48.43	H	-56.33	-25.00	-31.33	-56.02	-45.27	-11.06
126.03	H	-58.63	-25.00	-33.63	-52.24	-57.53	-1.10
402.48	H	-59.38	-25.00	-34.38	-56.82	-63.62	4.24
501.42	H	-61.04	-25.00	-36.04	-59.74	-65.32	4.28
800.18	H	-61.39	-25.00	-36.39	-65.10	-64.88	3.49
1000.00	H	-52.33	-25.00	-27.33	-58.24	-54.88	2.55
49.40	V	-48.16	-25.00	-23.16	-41.30	-37.29	-10.87
126.03	V	-57.80	-25.00	-32.80	-52.48	-56.70	-1.10
376.29	V	-61.33	-25.00	-36.33	-58.58	-65.65	4.32
427.70	V	-60.04	-25.00	-35.04	-57.78	-64.13	4.09
501.42	V	-58.70	-25.00	-33.70	-58.17	-62.98	4.28
1000.00	V	-48.63	-25.00	-23.63	-56.33	-51.18	2.55

Note: EIRP = S.G Power value + Correction factor.

3.2.5 Test Result of Radiated Emissions above 1GHz

Mode		CB:5MHz, Channel:36975					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
4997.00	H	-38.70	-25.00	-13.70	-56.00	-45.02	6.32
7495.50	H	-41.71	-25.00	-16.71	-63.51	-45.12	3.41
9994.00	H	-38.14	-25.00	-13.14	-63.38	-40.25	2.11
4997.00	V	-33.66	-25.00	-8.66	-48.66	-39.98	6.32
7495.50	V	-42.07	-25.00	-17.07	-62.60	-45.48	3.41
9994.00	V	-39.56	-25.00	-14.56	-62.76	-41.67	2.11

Mode		CB:5MHz, Channel:40620					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
5186.00	H	-40.30	-25.00	-15.30	-57.68	-46.68	6.38
7779.00	H	-41.75	-25.00	-16.75	-62.64	-44.92	3.17
10372.00	H	-43.37	-25.00	-18.37	-68.59	-44.92	1.55
5186.00	V	-37.88	-25.00	-12.88	-54.18	-44.26	6.38
7779.00	V	-42.40	-25.00	-17.40	-62.47	-45.57	3.17
10372.00	V	-41.03	-25.00	-16.03	-64.37	-42.58	1.55

Mode		CB:5MHz, Channel:41565					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
5375.00	H	-46.82	-25.00	-21.82	-63.92	-53.44	6.62
8062.50	H	-40.18	-25.00	-15.18	-63.48	-43.34	3.16
10750.00	H	-37.75	-25.00	-12.75	-62.49	-38.95	1.20
5375.00	V	-43.83	-25.00	-18.83	-59.77	-50.45	6.62
8062.50	V	-39.85	-25.00	-14.85	-62.24	-43.01	3.16
10750.00	V	-39.61	-25.00	-14.61	-62.93	-40.81	1.20

Note: EIRP = S.G Power value + Correction factor.

Mode		CB:10MHz, Channel:39700					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
5002.00	H	-38.52	-25.00	-13.52	-55.83	-44.84	6.32
7503.00	H	-41.45	-25.00	-16.45	-63.23	-44.85	3.40
10004.00	H	-38.43	-25.00	-13.43	-63.69	-40.53	2.10
5002.00	V	-33.76	-25.00	-8.76	-48.76	-40.08	6.32
7503.00	V	-42.69	-25.00	-17.69	-63.25	-46.09	3.40
10004.00	V	-39.38	-25.00	-14.38	-62.57	-41.48	2.10

Mode		CB:10MHz, Channel:40620					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
5186.00	H	-40.20	-25.00	-15.20	-57.58	-46.58	6.38
7779.00	H	-41.33	-25.00	-16.33	-62.22	-44.50	3.17
10372.00	H	-43.56	-25.00	-18.56	-68.78	-45.11	1.55
5186.00	V	-37.93	-25.00	-12.93	-54.23	-44.31	6.38
7779.00	V	-42.56	-25.00	-17.56	-62.63	-45.73	3.17
10372.00	V	-41.08	-25.00	-16.08	-64.42	-42.63	1.55

Mode		CB:10MHz, Channel:41540					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
5370.00	H	-46.39	-25.00	-21.39	-63.50	-53.00	6.61
8055.00	H	-40.41	-25.00	-15.41	-63.79	-43.56	3.15
10740.00	H	-37.46	-25.00	-12.46	-62.22	-38.67	1.21
5370.00	V	-43.68	-25.00	-18.68	-59.63	-50.29	6.61
8055.00	V	-39.64	-25.00	-14.64	-62.05	-42.79	3.15
10740.00	V	-39.55	-25.00	-14.55	-62.88	-40.76	1.21

Note: EIRP = S.G Power value + Correction factor.

Mode		CB:15MHz, Channel:39725					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
5007.00	H	-38.53	-25.00	-13.53	-55.84	-44.85	6.32
7510.50	H	-41.24	-25.00	-16.24	-63.01	-44.63	3.39
10014.00	H	-38.22	-25.00	-13.22	-63.47	-40.31	2.09
5007.00	V	-33.46	-25.00	-8.46	-48.50	-39.78	6.32
7510.50	V	-41.38	-25.00	-16.38	-61.97	-44.77	3.39
10014.00	V	-39.37	-25.00	-14.37	-62.56	-41.46	2.09

Mode		CB:15MHz, Channel:40620					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
5186.00	H	-40.48	-25.00	-15.48	-57.86	-46.86	6.38
7779.00	H	-41.96	-25.00	-16.96	-62.85	-45.13	3.17
10372.00	H	-43.54	-25.00	-18.54	-68.76	-45.09	1.55
5186.00	V	-36.53	-25.00	-11.53	-52.83	-42.91	6.38
7779.00	V	-42.61	-25.00	-17.61	-62.68	-45.78	3.17
10372.00	V	-41.28	-25.00	-16.28	-64.62	-42.83	1.55

Mode		CB:15MHz, Channel:41515					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
5365.00	H	-46.39	-25.00	-21.39	-63.50	-52.99	6.60
8047.50	H	-40.73	-25.00	-15.73	-64.18	-43.87	3.14
10730.00	H	-37.66	-25.00	-12.66	-62.43	-38.87	1.21
5365.00	V	-43.31	-25.00	-18.31	-59.27	-49.91	6.60
8047.50	V	-39.75	-25.00	-14.75	-62.19	-42.89	3.14
10730.00	V	-39.47	-25.00	-14.47	-62.79	-40.68	1.21

Note: EIRP = S.G Power value + Correction factor.

Mode		CB:20MHz, Channel:39750					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
5012.00	H	-47.19	-25.00	-22.19	-64.50	-53.51	6.32
7518.00	H	-40.89	-25.00	-15.89	-62.63	-44.27	3.38
10024.00	H	-38.14	-25.00	-13.14	-63.40	-40.21	2.07
5012.00	V	-49.88	-25.00	-24.88	-64.95	-56.20	6.32
7518.00	V	-42.47	-25.00	-17.47	-63.08	-45.85	3.38
10024.00	V	-40.82	-25.00	-15.82	-64.02	-42.89	2.07

Mode		CB:20MHz, Channel:40620					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
5186.00	H	-46.52	-25.00	-21.52	-63.90	-52.90	6.38
7779.00	H	-40.80	-25.00	-15.80	-61.27	-43.97	3.17
10372.00	H	-38.25	-25.00	-13.25	-63.47	-39.80	1.55
5186.00	V	-49.53	-25.00	-24.53	-65.83	-55.91	6.38
7779.00	V	-42.31	-25.00	-17.31	-62.38	-45.48	3.17
10372.00	V	-40.44	-25.00	-15.44	-63.78	-41.99	1.55

Mode		CB:20MHz, Channel:41490					
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Value (dBm)	Correction Factor (dB)
5360.00	H	-46.67	-25.00	-21.67	-63.78	-53.27	6.60
8040.00	H	-40.38	-25.00	-15.38	-63.91	-43.51	3.13
10720.00	H	-38.51	-25.00	-13.51	-63.30	-39.73	1.22
5360.00	V	-48.72	-25.00	-23.72	-64.69	-55.32	6.60
8040.00	V	-42.35	-25.00	-17.35	-64.82	-45.48	3.13
10720.00	V	-40.44	-25.00	-15.44	-63.77	-41.66	1.22

Note: EIRP = S.G Power value + Correction factor.

3.3 Conducted Emissions

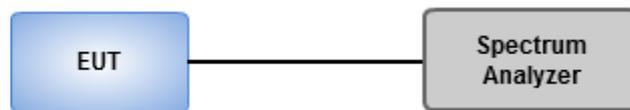
3.3.1 Limit of Conducted Emissions

The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $55 + 10 \log(P)$ dB equal to -25dBm.

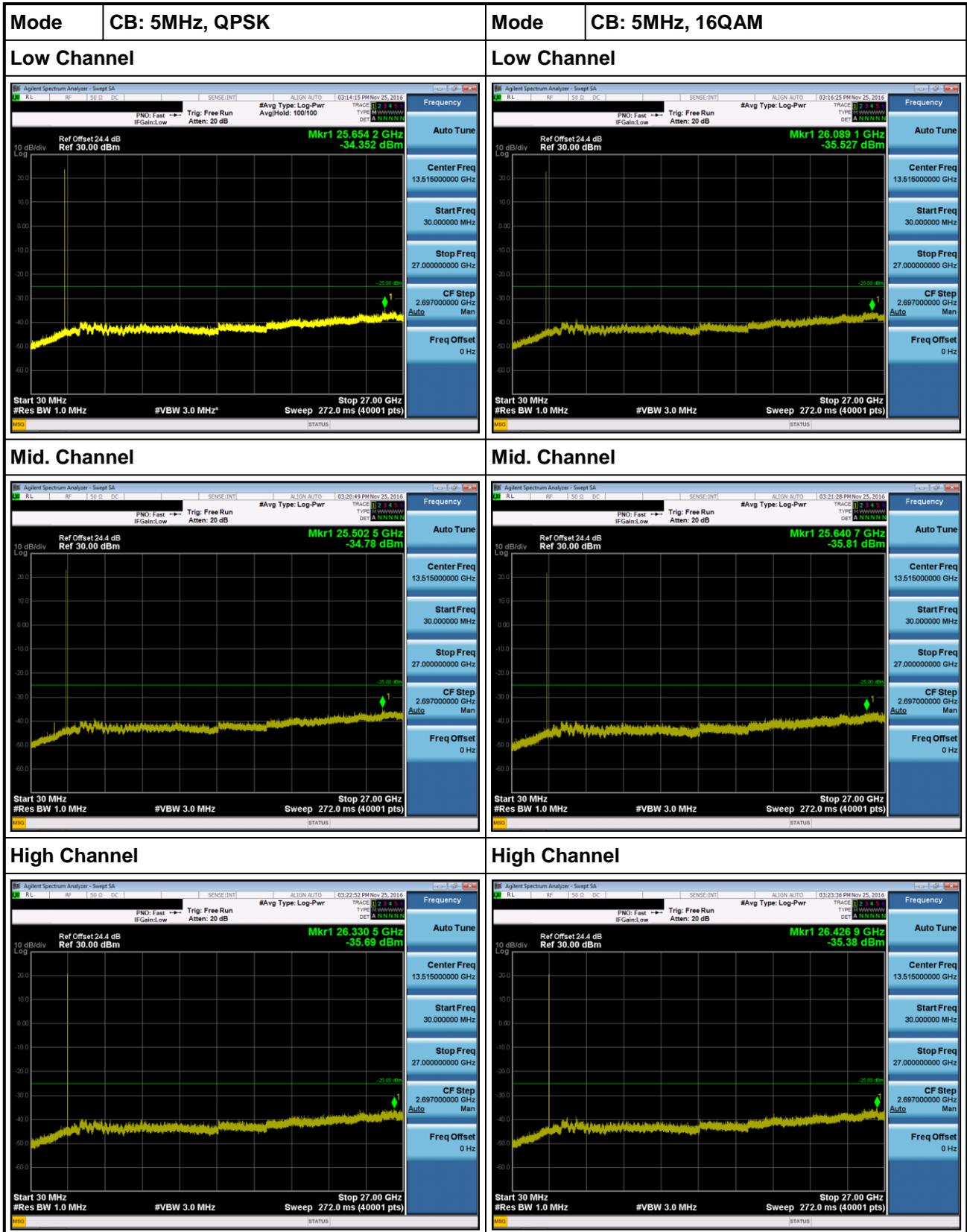
3.3.2 Test Procedures

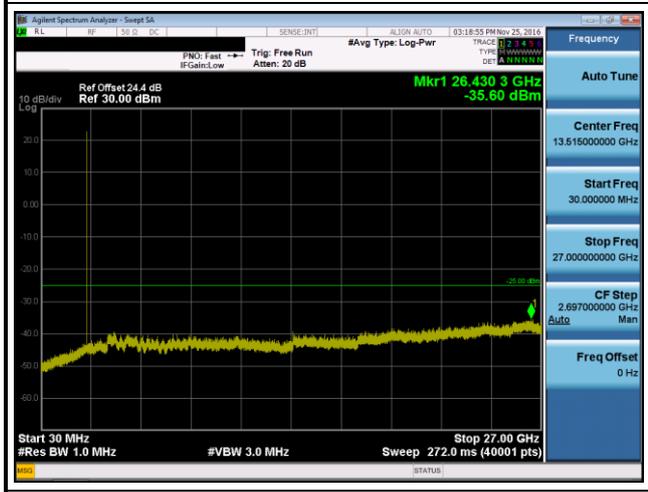
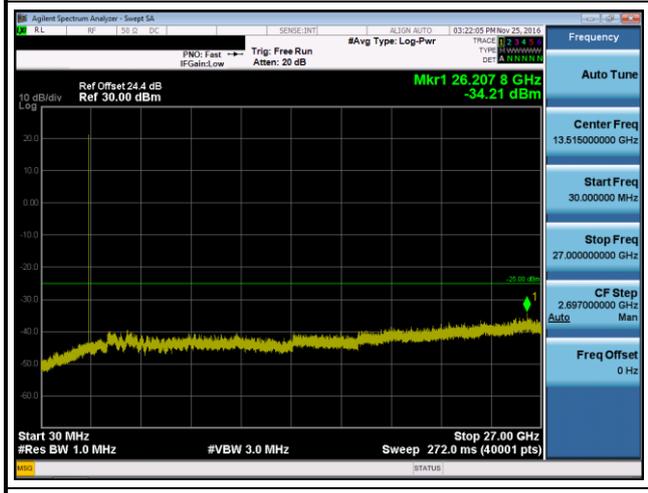
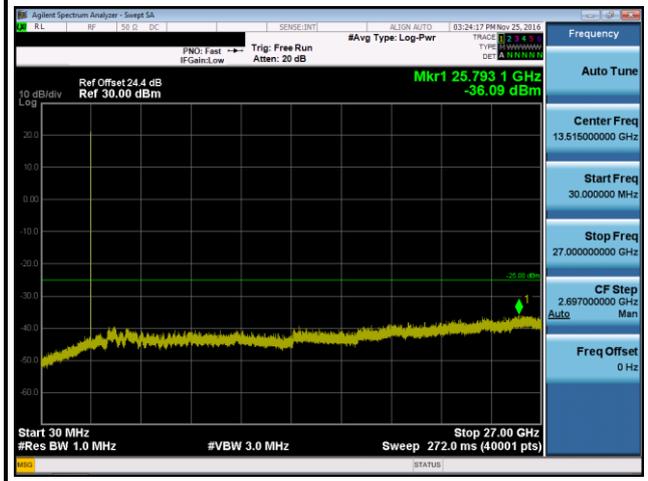
1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30MHz~27GHz.
3. Set RBW = 1MHz, VBW = 3MHz, detector = average, sweep time = auto.
4. Record the max trace value and capture the test plot of each sub frequency band.

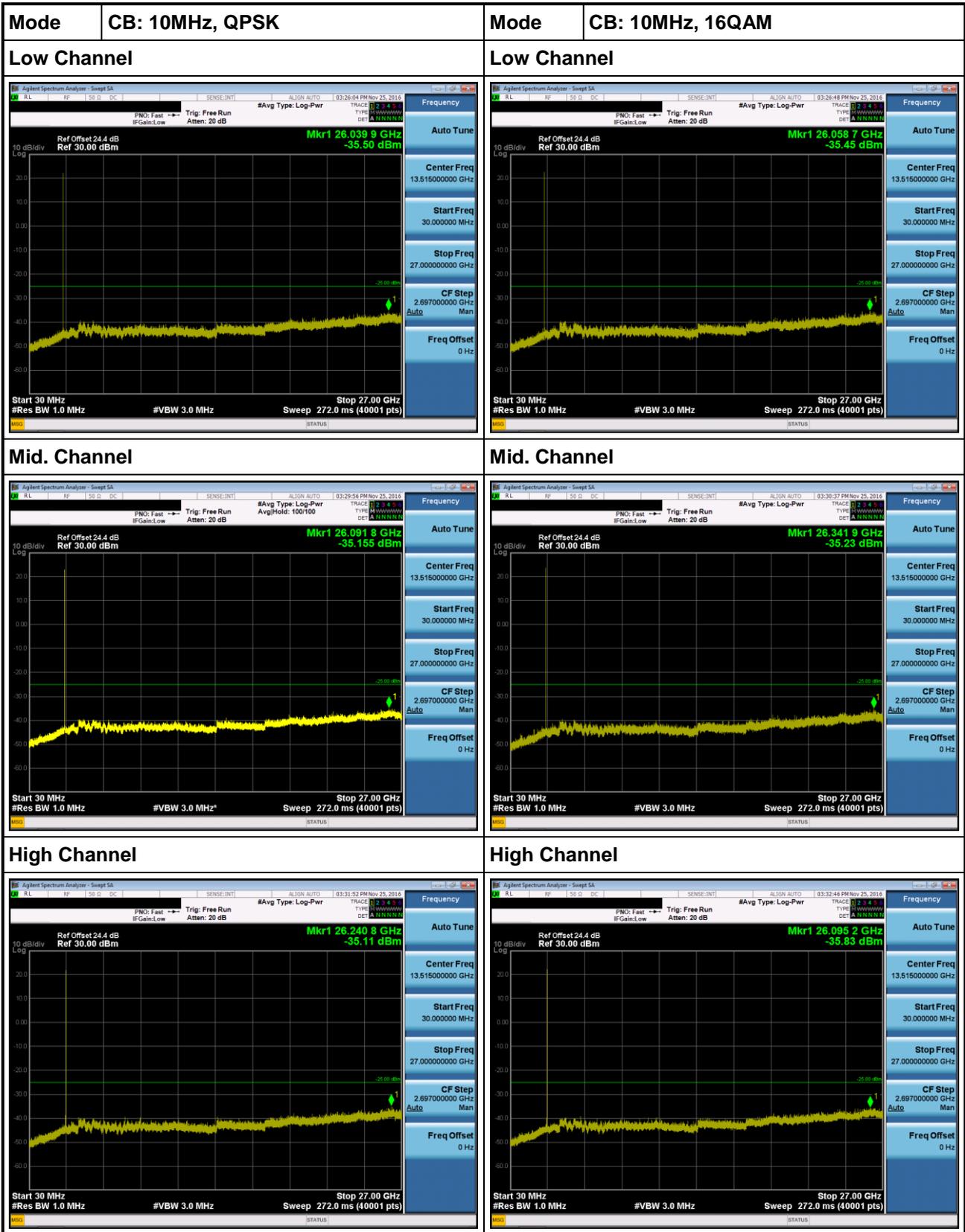
3.3.3 Test Setup

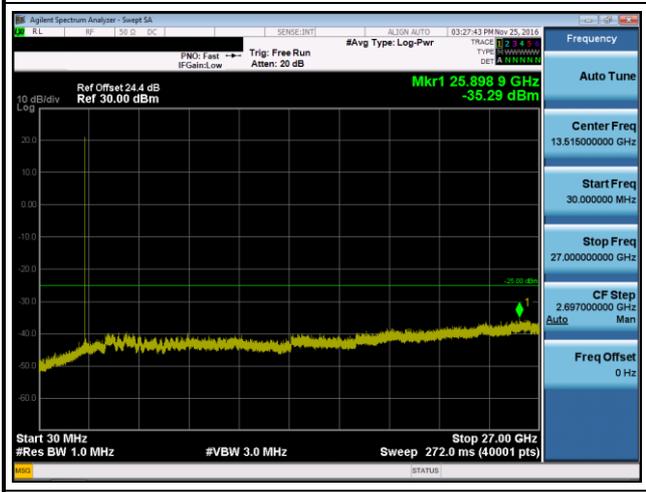
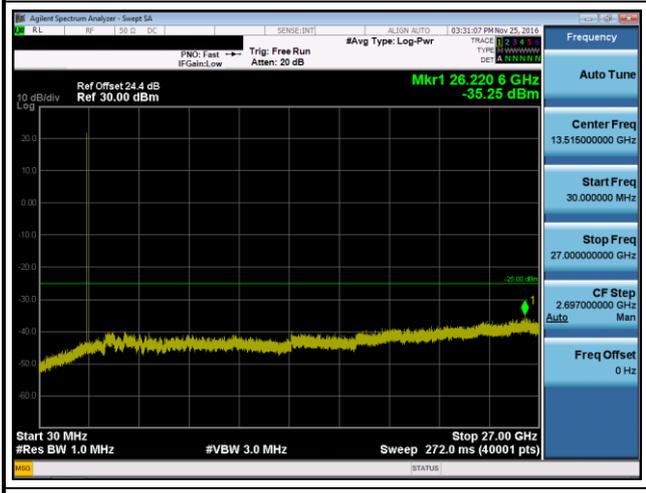
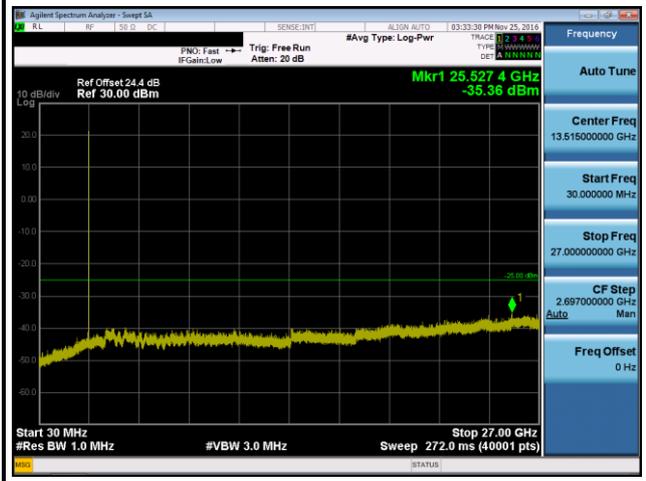


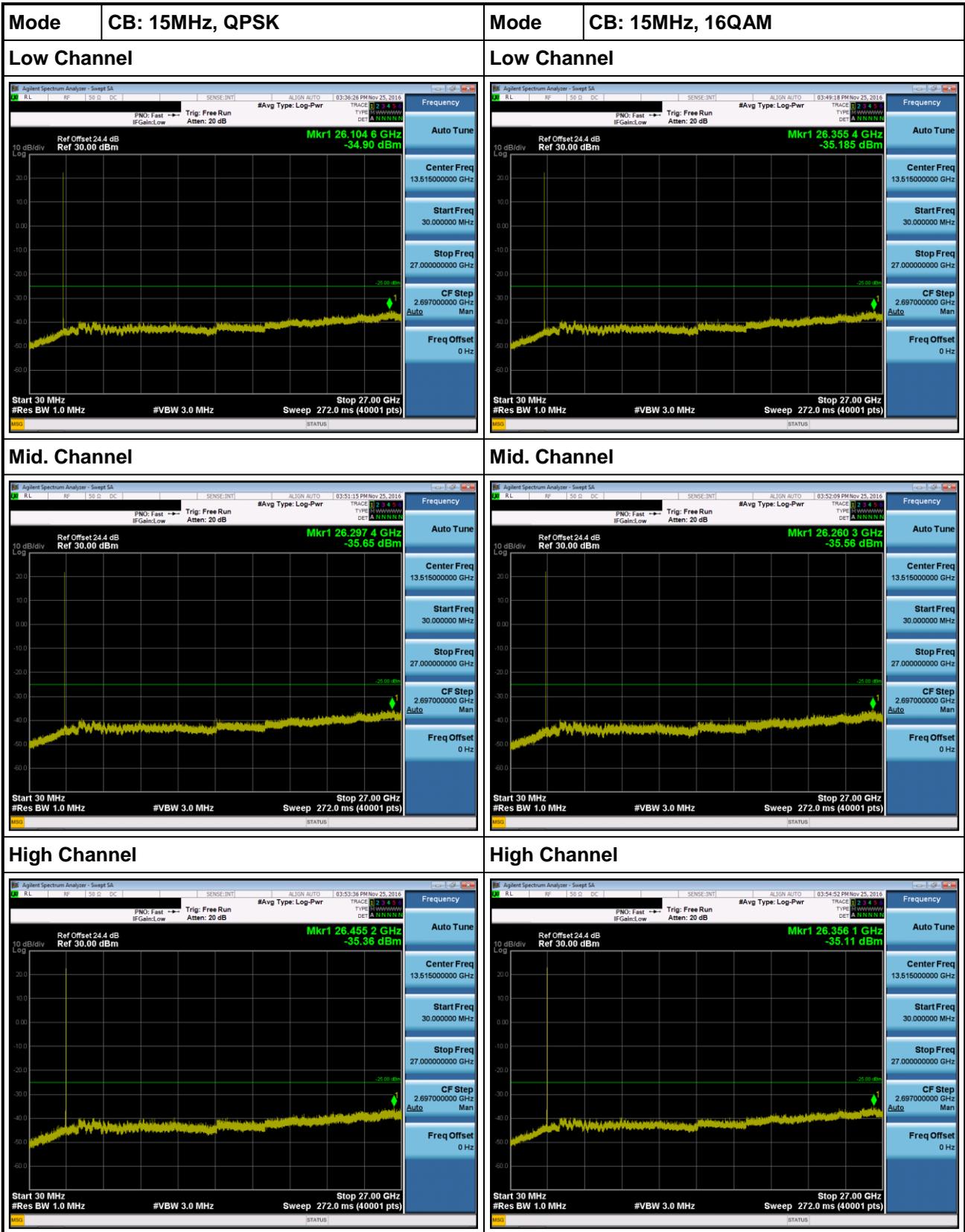
3.3.4 Test Result of Conducted Emissions

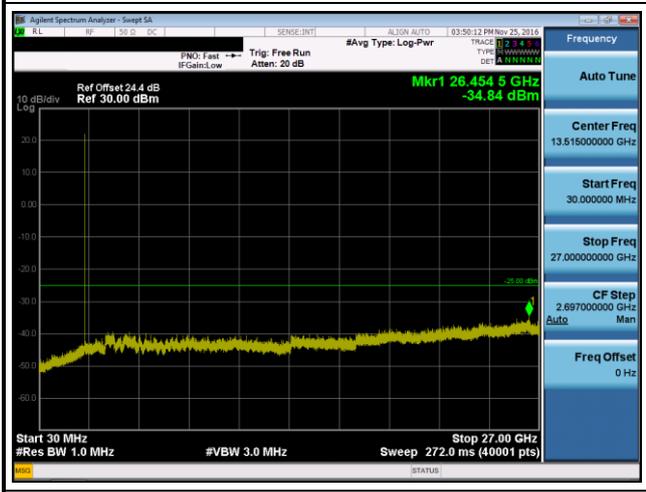
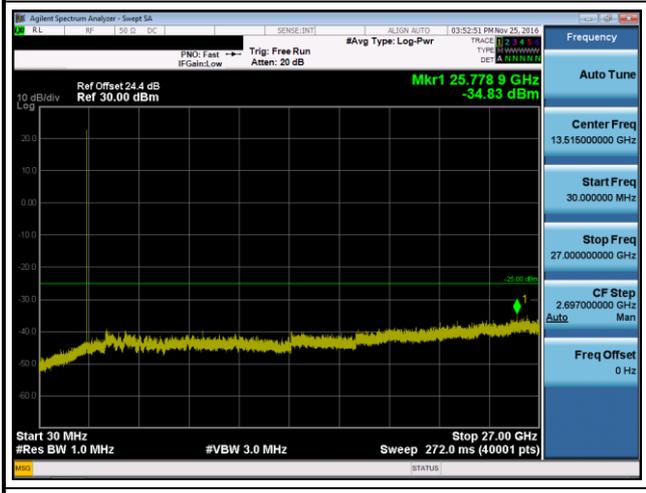
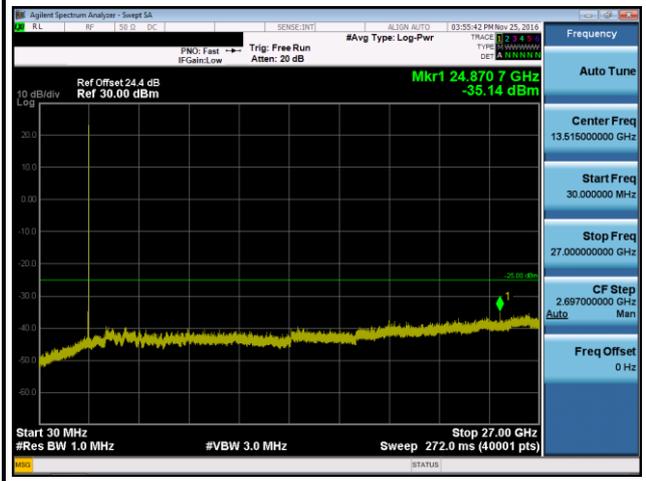


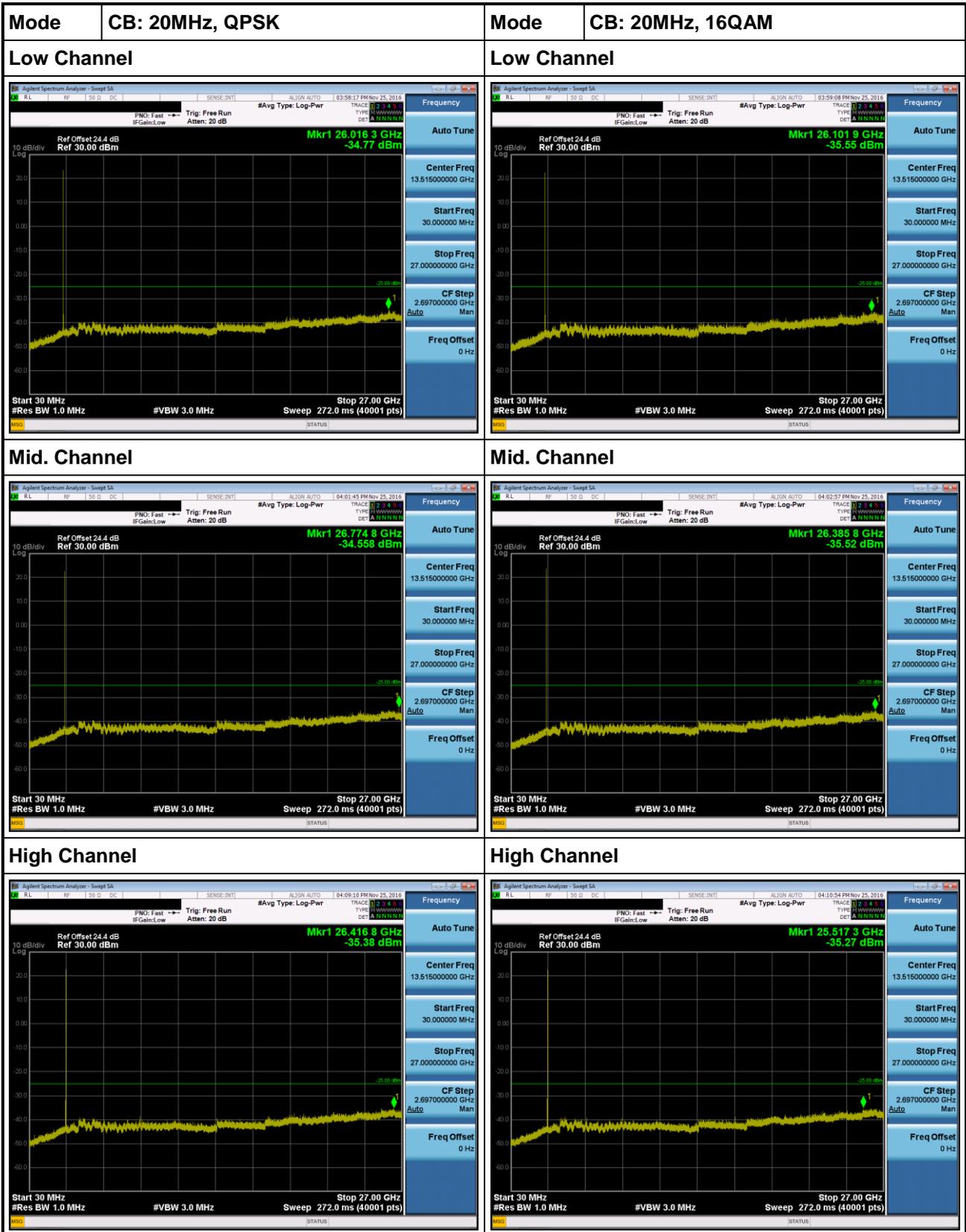
Mode	CB: 5MHz, 64QAM	---
Low Channel		---
		---
Mid. Channel		---
		---
High Channel		---
		---

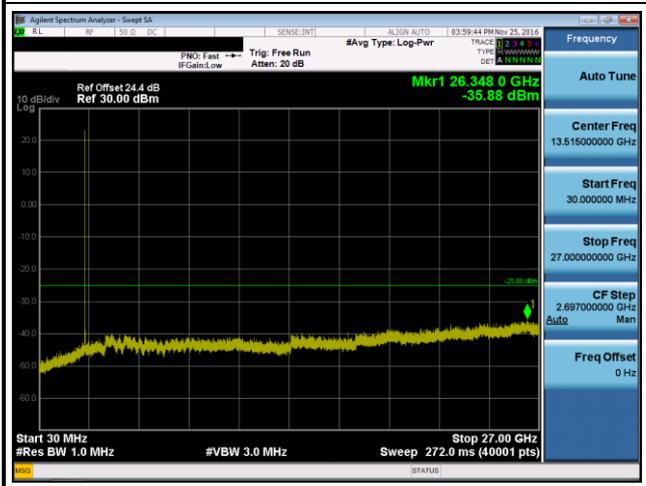
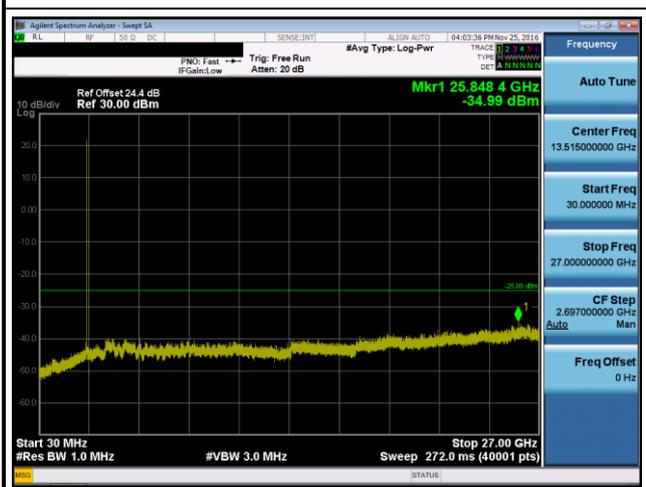
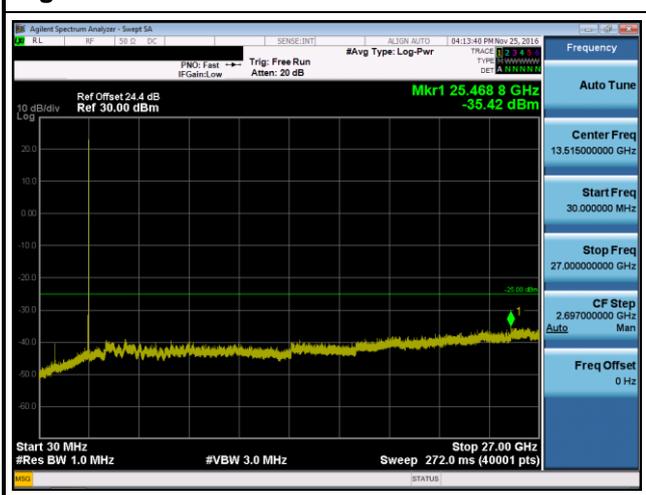


Mode	CB: 10MHz, 64QAM	---
Low Channel		---
		---
Mid. Channel		---
		---
High Channel		---
		---



Mode	CB: 15MHz, 64QAM	---
Low Channel		---
		---
Mid. Channel		---
		---
High Channel		---
		---



Mode	CB: 20MHz, 64QAM	---
Low Channel		---
		---
Mid. Channel		---
		---
High Channel		---
		---