

FCC Test Report

FCC ID : N7NHL7688
Equipment : Wireless Module
Model No. : HL7688
Brand Name : AirPrime
Applicant : Sierra Wireless Inc.
Address : 13811 Wireless Way Richmond, BC, V6V 3A4
Canada
Standard : 47 CFR FCC Part 27 Subpart L
Received Date : Jul. 12, 2016
Tested Date : Aug. 03 ~ Aug. 08, 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.

Approved & Reviewed by:


Gary Chang / Manager



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Release Record

Report No.	Version	Description	Issued Date
FG571601-01P27L	Rev. 01	Initial issue	Aug. 18, 2016

Summary of Test Results

FCC Rules	Test Items	Measured	Result
2.1046 / 27.50(d)(4)	Equivalent Isotropically Radiated Power	Power[dBm]: 25.48	Pass
2.1053 / 27.53(h)	Radiated Emissions	Meet the requirement of limit	Pass
2.1051 / 27.53(h)	Conducted Emissions	Meet the requirement of limit	Pass
27.53(h)	Band Edge Measurement	Meet the requirement of limit	Pass
2.1049 / 27.53(h)	Occupied Bandwidth	Meet the requirement of limit	Pass
27.50(d)(5)	Peak to Average Ratio	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: 1.4MHz: 1710.7 MHz ~ 1754.3 MHz Channel Bandwidth: 3MHz: 1711.5 MHz ~ 1753.5 MHz Channel Bandwidth: 5MHz: 1712.5 MHz ~ 1752.5 MHz Channel Bandwidth: 10MHz: 1715 MHz ~ 1750 MHz Channel Bandwidth: 15MHz: 1717.5 MHz ~ 1747.5 MHz Channel Bandwidth: 20MHz: 1720 MHz ~ 1745 MHz
Modulation Type	QPSK, 16QAM (Uplink)
Release Version	8
Duplex Mode	FDD
UE Category	Cat. 1
H/W Version	1
S/W Version	RHL76xx.A.2.10.1

1.1.2 Maximum EIRP and Emission Designator

Mode	Modulation	Maximum EIRP (W)	Emission Designator
LTE Band 4, CB: 1.4MHz	QPSK	0.349	1M09G7D
LTE Band 4, CB: 1.4MHz	16QAM	0.327	1M09W7D
LTE Band 4, CB: 3MHz	QPSK	0.337	2M69G7D
LTE Band 4, CB: 3MHz	16QAM	0.293	2M70W7D
LTE Band 4, CB: 5MHz	QPSK	0.349	4M50G7D
LTE Band 4, CB: 5MHz	16QAM	0.311	4M50W7D
LTE Band 4, CB: 10MHz	QPSK	0.350	9M00G7D
LTE Band 4, CB: 10MHz	16QAM	0.310	9M00W7D
LTE Band 4, CB: 15MHz	QPSK	0.353	13M5G7D
LTE Band 4, CB: 15MHz	16QAM	0.323	13M5W7D
LTE Band 4, CB: 20MHz	QPSK	0.349	18M0G7D
LTE Band 4, CB: 20MHz	16QAM	0.291	18M0W7D

1.1.3 Antenna Details

Ant. No.	Type	Gain (dBi)	Connector	Remark
1	Dipole	2	R-SMA	---

Note: The antenna is for testing use only.

1.1.4 EUT Operational Condition

Supply Voltage	3.7 Vdc from host		
Operational Voltage	☒ Vnom (3.7 V)	☒ Vmax (4.5 V)	☒ Vmin (3.2 V)
Operational Climatic	☒ Tnom (20°C)	☒ Tmax (55°C)	☒ Tmin (-30°C)

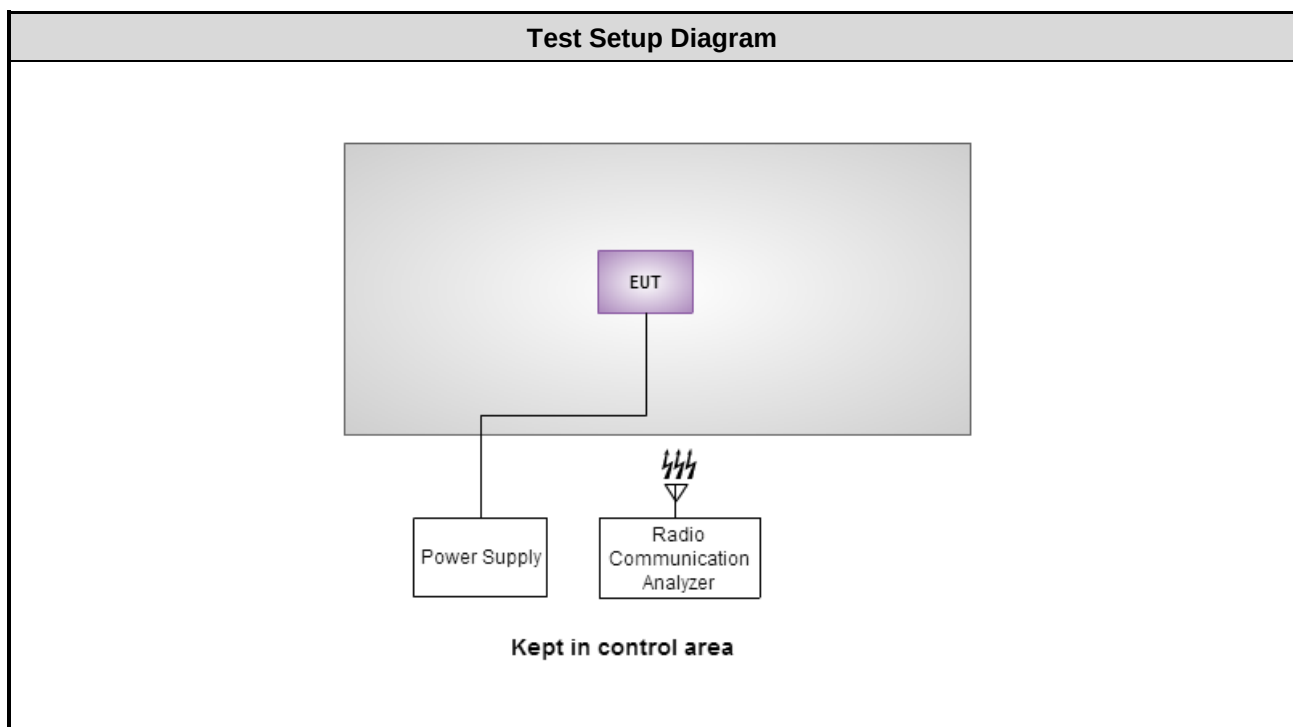
1.1.5 Operating Channel List

LTE Band 4		
Channel Bandwidth (MHz)	Channel	Frequency (MHz)
1.4	19957	1710.7
1.4	20175	1732.5
1.4	20393	1754.3
3	19965	1711.5
3	20175	1732.5
3	20385	1753.5
5	19975	1712.5
5	20175	1732.5
5	20375	1752.5
10	20000	1715.0
10	20175	1732.5
10	20350	1750.0
15	20025	1717.5
15	20175	1732.5
15	20325	1747.5
20	20050	1720.0
20	20175	1732.5
20	20300	1745.0

1.2 Local Support Equipment List

Support Equipment List						
No.	Equipment	Brand	Model	S/N	FCC ID	Signal cable / Length (m)
1	Power Supply	GWINSTEK	GPC-60300	EM884797	---	---

1.3 Test Setup Chart



1.4 The Equipment List

Test Item	RF Conducted				
Test Site	(TH01-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	R&S	FSV40	101063	Feb. 17, 2016	Feb. 16, 2017
TEMP&HUMIDITY CHAMBER	GIANT FORCE	GCT-225-40-SP-SD	MAF1212-002	Nov. 27, 2015	Nov. 26, 2016
Power Meter	Anritsu	ML2495A	1241002	Sep. 21, 2015	Sep. 20, 2016
Power Sensor	Anritsu	MA2411B	1207366	Sep. 21, 2015	Sep. 20, 2016
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Mar. 28, 2016	Mar. 27, 2017
DC POWER SOURCE	GW INSTRON	GPC-3060D	EM884797	Oct. 20, 2015	Oct. 19, 2016
Measurement Software	Sporton	Sporton_1	1.3.30	NA	NA
Note: Calibration Interval of instruments listed above is one year.					

Test Item	Radiated Emission				
Test Site	966 chamber 3 / (03CH03-WS)				
Instrument	Manufacturer	Model No.	Serial No.	Calibration Date	Calibration Until
Spectrum Analyzer	Agilent	N9010A	MY53400091	Sep. 14, 2015	Sep. 13, 2016
Receiver	Agilent	N9038A	MY53290044	Oct. 14, 2015	Oct. 13, 2016
Bilog Antenna	SCHWARZBECK	VULB9168	VULB9168-685	Apr. 26, 2016	Apr. 25, 2017
Horn Antenna 1G-18G	SCHWARZBECK	BBHA 9120 D	BBHA 9120 D 1206	Feb. 24, 2016	Feb. 23, 2017
Horn Antenna 18G-40G	SCHWARZBECK	BBHA 9170	BBHA 9170517	Nov. 04, 2015	Nov. 03, 2016
Preamplifier	EMC	EMC02325	980187	Sep. 21, 2015	Sep. 20, 2016
Preamplifier	Agilent	83017A	MY53270014	Sep. 07, 2015	Sep. 06, 2016
Preamplifier	EMC	EMC184045B	980192	Sep. 01, 2015	Aug. 31, 2016
RF cable-3M	HUBER+SUHNER	SUCOFLEX104	MY22620/4	Feb. 05, 2016	Feb. 04, 2017
RF cable-8M	HUBER+SUHNER	SUCOFLEX104	MY22600/4	Feb. 05, 2016	Feb. 04, 2017
RF cable-1M	HUBER+SUHNER	SUCOFLEX104	MY22624/4	Feb. 05, 2016	Feb. 04, 2017
LF cable-0.8M	EMC	EMC8D-NM-NM-800	EMC8D-NM-NM-800-001	Feb. 05, 2016	Feb. 04, 2017
LF cable-3M	EMC	EMC8D-NM-NM-3000	131103	Feb. 05, 2016	Feb. 04, 2017
LF cable-13M	EMC	EMC8D-NM-NM-13000	131104	Feb. 05, 2016	Feb. 04, 2017
Radio Communication Analyzer	Anritsu	MT8820C	6201240341	Mar. 28, 2016	Mar. 27, 2017
Measurement Software	AUDIX	e3	6.120210g	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 L

ANSI / TIA / EIA-603-D -2010

KDB 971168 D01 Power Meas License Digital Systems v02r02

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
Temperature	± 0.6 °C
Conducted emission	± 2.670 dB
AC conducted emission	± 2.90 dB
Radiated emission ≤ 1 GHz	± 3.66 dB
Radiated emission > 1 GHz	± 5.37 dB

2 Test Configuration

2.1 Testing Condition and Location Information

Test Item	Test Site	Ambient Condition	Tested By
RF conducted	TH01-WS	23°C / 64%	Felix Sung
Radiated Emissions	03CH03-WS	22°C / 64%	Anderson Hung

➤ FCC site registration No.: 207696

➤ IC site registration No.: 10807C-1

2.2 The Worst Test Modes and Channel Details

Test item	Channel Bandwidth	Modulation	Test channel
E.I.R.P	1.4 MHz	QPSK / 16QAM	19957 / 20175 / 20393
Conducted Emissions	3 MHz	QPSK / 16QAM	19965 / 20175 / 20385
Occupied Bandwidth	5 MHz	QPSK / 16QAM	19975 / 20175 / 20375
Peak to Average Ratio	10 MHz	QPSK / 16QAM	20000 / 20175 / 20350
	15 MHz	QPSK / 16QAM	20025 / 20175 / 20325
	20 MHz	QPSK / 16QAM	20050 / 20175 / 20300
Radiated Emission ≤ 1GHz	1.4 MHz	QPSK	20393
	3 MHz	QPSK	20385
	5 MHz	QPSK	20375
	10 MHz	QPSK	20350
	15 MHz	QPSK	20325
	20 MHz	QPSK	20300
Radiated Emission > 1GHz	1.4 MHz	QPSK	19957 / 20175 / 20393
	3 MHz	QPSK	19965 / 20175 / 20385
	5 MHz	QPSK	19975 / 20175 / 20375
	10 MHz	QPSK	20000 / 20175 / 20350
	15 MHz	QPSK	20025 / 20175 / 20325
	20 MHz	QPSK	20050 / 20175 / 20300
Band Edge	1.4 MHz	QPSK / 16QAM	19957 20393
	3 MHz	QPSK / 16QAM	19965 20385
	5 MHz	QPSK / 16QAM	19975 20375
	10 MHz	QPSK / 16QAM	20000 20350
	15 MHz	QPSK / 16QAM	20025 20325
	20 MHz	QPSK / 16QAM	20050 20300
Frequency Stability	1.4 MHz	QPSK	20175
	3 MHz	QPSK	20175
	5 MHz	QPSK	20175
	10 MHz	QPSK	20175
	15 MHz	QPSK	20175
	20 MHz	QPSK	20175
Note:			
1. The EUT was pretested with 3 orientations placed on the table for the radiated emission measurement – X, Y, and Z-plane. The Y-plane results were found as the worst case and were shown in this report.			

3 Test Results

3.1 Equivalent Isotropically Radiated Power

3.1.1 Limit of Equivalent Isotropically Radiated Power

Mobile and portable stations are limited to 1 watts EIRP.

3.1.2 Test Procedures

For Conducted power measurement:

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.

For EIRP measurement:

EIRP can be calculated by below formula from KDB 412172 D01.

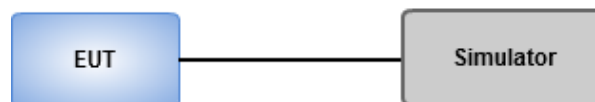
1. $EIRP = P_T + G_T - L_C$

P_T = transmitter output power, in dBm.

G_T = gain of the transmitting antenna, in dBi (EIRP).

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

3.1.3 Test Setup



3.1.4 Test Result of Conducted power (dBm)

Band / Channel Bandwidth			LTE Band 4 / CB: 1.4MHz		
Channel			19957	20175	20393
Frequency (MHz)			1710.7	1732.5	1754.3
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	23.12	23.03	23.43
	1	2	23.00	22.94	23.35
	1	5	23.08	23.01	23.40
	3	0	23.05	23.04	23.38
	3	1	23.05	23.09	23.35
	3	2	23.09	23.08	23.34
	6	0	22.12	22.09	22.44
16QAM	1	0	22.69	22.78	23.15
	1	2	22.66	22.77	23.02
	1	5	22.63	22.58	23.00
	3	0	22.19	22.25	22.50
	3	1	22.25	22.34	22.61
	3	2	22.15	22.18	22.39
	6	0	21.40	21.48	21.49

Band / Channel Bandwidth			LTE Band 4 / CB: 3MHz		
Channel			19965	20175	20385
Frequency (MHz)			1711.5	1732.5	1753.5
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	23.14	23.05	23.27
	1	7	23.03	23.02	23.22
	1	14	22.97	22.94	23.25
	8	0	22.10	22.20	22.46
	8	4	22.11	22.15	22.38
	8	7	22.06	22.17	22.39
	15	0	22.08	22.15	22.46
16QAM	1	0	22.29	22.36	22.67
	1	7	22.27	22.34	22.63
	1	14	22.20	22.27	22.60
	8	0	21.16	21.39	21.49
	8	4	21.28	21.27	21.41
	8	7	21.32	21.35	21.51
	15	0	21.34	21.43	21.68

Band / Channel Bandwidth			LTE Band 4 / CB: 5MHz		
Channel			19975	20175	20375
Frequency (MHz)			1712.5	1732.5	1752.5
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	23.16	23.11	23.43
	1	12	23.13	23.10	23.42
	1	24	22.99	22.99	23.28
	12	0	22.19	22.16	22.43
	12	6	22.10	22.17	22.41
	12	11	22.03	22.16	22.30
	25	0	22.00	22.17	22.48
16QAM	1	0	22.62	22.58	22.93
	1	12	22.51	22.54	22.85
	1	24	22.46	22.52	22.81
	12	0	21.33	21.39	21.68
	12	6	21.24	21.33	21.62
	12	11	21.25	21.37	21.50
	25	0	21.23	21.21	21.58

Band / Channel Bandwidth			LTE Band 4 / CB: 10MHz		
Channel			20000	20175	20350
Frequency (MHz)			1715.0	1732.5	1750.0
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	23.21	23.20	23.44
	1	24	22.95	23.00	23.25
	1	49	22.83	22.93	23.21
	25	0	22.19	22.23	22.52
	25	12	22.08	22.12	22.42
	25	24	22.01	22.10	22.41
	50	0	22.08	22.16	22.48
16QAM	1	0	22.59	22.67	22.91
	1	24	22.37	22.44	22.74
	1	49	22.25	22.30	22.70
	25	0	21.39	21.43	21.68
	25	12	21.28	21.31	21.56
	25	24	21.23	21.28	21.54
	50	0	21.32	21.34	21.59

Band / Channel Bandwidth			LTE Band 4 / CB: 15MHz		
Channel			20025	20175	20325
Frequency (MHz)			1717.5	1732.5	1747.5
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	23.09	23.20	23.48
	1	37	22.98	23.00	23.26
	1	74	22.73	22.80	23.16
	36	0	22.19	22.34	22.53
	36	18	22.04	22.17	22.40
	36	37	21.94	22.10	22.36
	75	0	22.05	22.09	22.42
16QAM	1	0	22.80	22.81	23.09
	1	37	22.57	22.53	22.88
	1	74	22.30	22.30	22.76
	36	0	21.40	21.41	21.83
	36	18	21.29	21.29	21.57
	36	37	21.14	21.23	21.51
	75	0	21.18	21.22	21.55

Band / Channel Bandwidth			LTE Band 4 / CB: 20MHz		
Channel			20050	20175	20300
Frequency (MHz)			1720.0	1732.5	1745.0
Mode	RB	RB Offset	Maximum AV Power (dBm)		
QPSK	1	0	22.98	23.08	23.43
	1	49	22.87	22.94	23.12
	1	99	22.33	22.52	22.95
	50	0	22.16	22.29	22.47
	50	24	21.93	22.08	22.28
	50	49	21.87	22.00	22.32
	100	0	22.07	22.10	22.35
16QAM	1	0	22.38	22.41	22.64
	1	49	22.14	22.17	22.33
	1	99	21.66	21.79	22.01
	50	0	21.30	21.14	21.63
	50	24	21.04	21.29	21.43
	50	49	20.93	20.98	21.44
	100	0	21.01	21.12	21.48

3.1.5 Test Result of Equivalent Isotropically Radiated Power (dBm)

Mode	LTE Band 4, CB: 1.4MHz, QPSK					
Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)
19957	1710.7	23.12	2	25.12	0.325	1
20175	1732.5	23.03	2	25.03	0.318	1
20393	1754.3	23.43	2	25.43	0.349	1

Mode	LTE Band 4, CB: 1.4MHz, 16QAM					
Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)
19957	1710.7	22.69	2	24.69	0.294	1
20175	1732.5	22.78	2	24.78	0.301	1
20393	1754.3	23.15	2	25.15	0.327	1

Mode	LTE Band 4, CB: 3MHz, QPSK					
Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)
19965	1711.5	23.14	2	25.14	0.327	1
20175	1732.5	23.05	2	25.05	0.320	1
20385	1753.5	23.27	2	25.27	0.337	1

Mode	LTE Band 4, CB: 3MHz, 16QAM					
Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)
19965	1711.5	22.29	2	24.29	0.269	1
20175	1732.5	22.36	2	24.36	0.273	1
20385	1753.5	22.67	2	24.67	0.293	1

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

Mode	LTE Band 4, CB: 5MHz, QPSK					
Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)
19975	1712.5	23.16	2	25.16	0.328	1
20175	1732.5	23.11	2	25.11	0.324	1
20375	1752.5	23.43	2	25.43	0.349	1

Mode	LTE Band 4, CB: 5MHz, 16QAM					
Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)
19975	1712.5	22.62	2	24.62	0.290	1
20175	1732.5	22.58	2	24.58	0.287	1
20375	1752.5	22.93	2	24.93	0.311	1

Mode	LTE Band 4, CB: 10MHz, QPSK					
Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)
20000	1715.0	23.21	2	25.21	0.332	1
20175	1732.5	23.20	2	25.2	0.331	1
20350	1750.0	23.44	2	25.44	0.350	1

Mode	LTE Band 4, CB: 10MHz, 16QAM					
Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)
20000	1715.0	22.59	2	24.59	0.288	1
20175	1732.5	22.67	2	24.67	0.293	1
20350	1750.0	22.91	2	24.91	0.310	1

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

Mode	LTE Band 4, CB: 15MHz, QPSK					
Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)
20025	1717.5	23.09	2	25.09	0.323	1
20175	1732.5	23.20	2	25.20	0.331	1
20325	1747.5	23.48	2	25.48	0.353	1

Mode	LTE Band 4, CB: 15MHz, 16QAM					
Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)
20025	1717.5	22.8	2	24.80	0.302	1
20175	1732.5	22.81	2	24.81	0.303	1
20325	1747.5	23.09	2	25.09	0.323	1

Mode	LTE Band 4, CB: 20MHz, QPSK					
Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)
20050	1720.0	22.98	2	24.98	0.315	1
20175	1732.5	23.08	2	25.08	0.322	1
20300	1745.0	23.43	2	25.43	0.349	1

Mode	LTE Band 4, CB: 20MHz, 16QAM					
Channel	Frequency (MHz)	Conducted Output Power (dBm)	Max Antenna Gain (dBi)	EIRP (dBm)	EIRP (W)	Limit (dBm)
20050	1720.0	22.38	2	24.38	0.274	1
20175	1732.5	22.41	2	24.41	0.276	1
20300	1745.0	22.64	2	24.64	0.291	1

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

3.2 Radiated Emissions

3.2.1 Limit of Radiated Emissions

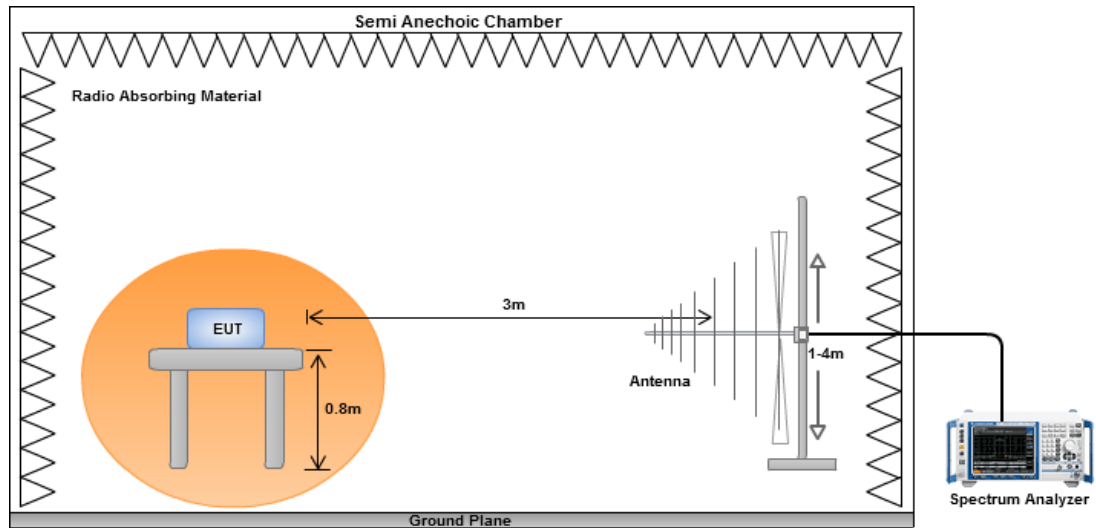
The power of any emission outside of the authorized operating frequency ranges must be attenuated below the transmitting power (P) by a factor of at least $43 + 10 \log(P)$ dB equal to -13 dBm.

3.2.2 Test Procedures

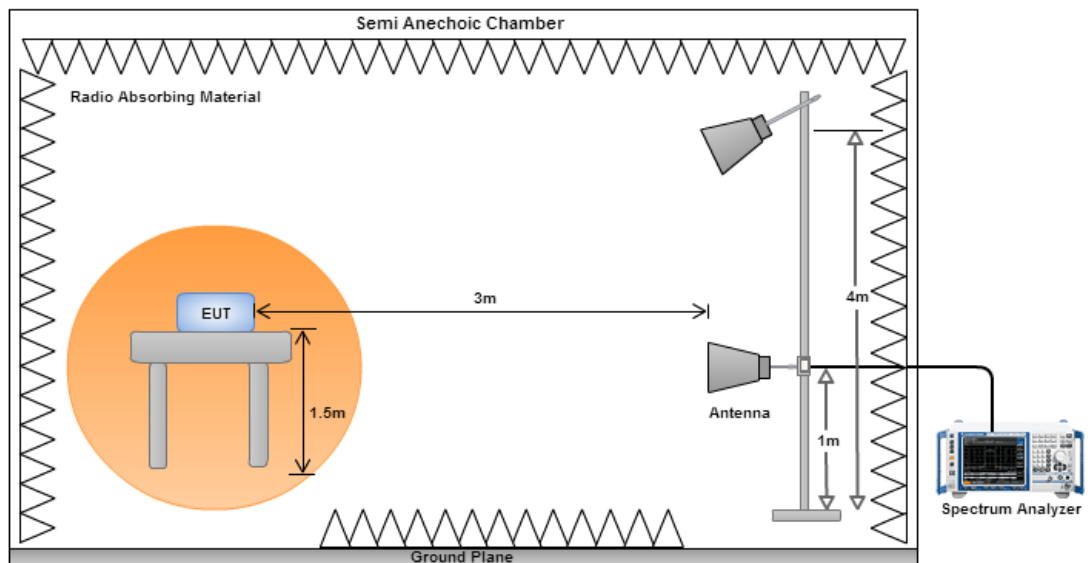
1. Measurement is made at a semi-anechoic chamber that incorporates a turntable allowing a EUT rotation of 360°. A continuously-rotating, remotely-controlled turntable is installed at the test site to support the EUT and facilitate determination of the direction of maximum radiation for each EUT emission frequency. The EUT is placed at test table. For emissions testing at or below 1 GHz, the table height is 80 cm above the reference ground plane. For emission measurements above 1 GHz, the table height is 1.5 m
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

Radiated Emissions below 1 GHz



Radiated Emissions above 1 GHz



3.2.4 Test Result of Radiated Emissions below 1GHz

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 0,Channel: 20393						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
39.70	H	-68.03	-13.00	-55.03	-70.29	-55.56	-12.47
69.95	H	-64.69	-13.00	-51.69	-57.89	-59.54	-5.15
150.04	H	-64.79	-13.00	-51.79	-58.60	-63.74	-1.05
234.33	H	-66.32	-13.00	-53.32	-57.50	-70.76	4.44
349.03	H	-79.53	-13.00	-66.53	-75.60	-83.92	4.39
768.48	H	-71.45	-13.00	-58.45	-74.76	-74.88	3.43
37.25	V	-74.91	-13.00	-61.91	-66.51	-62.03	-12.88
71.71	V	-71.57	-13.00	-58.57	-63.79	-66.92	-4.65
149.88	V	-70.40	-13.00	-57.40	-67.19	-69.34	-1.06
235.29	V	-67.70	-13.00	-54.70	-64.14	-72.14	4.44
356.48	V	-76.98	-13.00	-63.98	-74.13	-81.35	4.37
768.48	V	-72.30	-13.00	-59.30	-76.50	-75.73	3.43

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

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 0,Channel: 19965						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
37.67	H	-69.52	-13.00	-56.52	-71.82	-56.71	-12.81
71.71	H	-67.17	-13.00	-54.17	-60.36	-62.52	-4.65
149.84	H	-65.56	-13.00	-52.56	-59.37	-64.50	-1.06
235.14	H	-62.17	-13.00	-49.17	-53.36	-66.61	4.44
356.89	H	-73.55	-13.00	-60.55	-69.79	-77.92	4.37
768.48	H	-72.53	-13.00	-59.53	-75.84	-75.96	3.43
39.70	V	-61.33	-13.00	-48.33	-53.47	-48.86	-12.47
69.77	V	-62.01	-13.00	-49.01	-54.25	-56.81	-5.20
149.34	V	-65.22	-13.00	-52.22	-62.05	-64.13	-1.09
238.98	V	-68.52	-13.00	-55.52	-65.09	-72.96	4.44
356.18	V	-63.31	-13.00	-50.31	-60.45	-67.68	4.37
768.58	V	-71.48	-13.00	-58.48	-75.68	-74.91	3.43

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

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 0,Channel: 20375						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
38.91	H	-66.40	-13.00	-53.40	-68.67	-53.80	-12.60
70.68	H	-67.33	-13.00	-54.33	-60.52	-62.39	-4.94
149.47	H	-72.77	-13.00	-59.77	-66.58	-71.69	-1.08
237.50	H	-78.70	-13.00	-65.70	-69.94	-83.14	4.44
355.98	H	-76.35	-13.00	-63.35	-72.58	-80.72	4.37
768.13	H	-72.67	-13.00	-59.67	-75.97	-76.10	3.43
37.89	V	-62.45	-13.00	-49.45	-54.19	-49.68	-12.77
70.74	V	-62.96	-13.00	-49.96	-55.19	-58.04	-4.92
150.98	V	-74.56	-13.00	-61.56	-71.26	-73.56	-1.00
236.61	V	-60.24	-13.00	-47.24	-56.73	-64.68	4.44
354.47	V	-75.57	-13.00	-62.57	-72.70	-79.95	4.38
768.45	V	-70.91	-13.00	-57.91	-75.11	-74.34	3.43

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

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 0,Channel: 20350						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
38.73	H	-56.74	-13.00	-43.74	-59.02	-44.11	-12.63
69.80	H	-67.93	-13.00	-54.93	-61.14	-62.74	-5.19
150.07	H	-67.30	-13.00	-54.30	-61.11	-66.25	-1.05
239.15	H	-75.22	-13.00	-62.22	-66.49	-79.66	4.44
358.83	H	-74.00	-13.00	-61.00	-70.27	-78.36	4.36
767.26	H	-66.23	-13.00	-53.23	-69.52	-69.66	3.43
37.77	V	-63.68	-13.00	-50.68	-55.39	-50.89	-12.79
69.77	V	-63.89	-13.00	-50.89	-56.13	-58.69	-5.20
149.55	V	-71.82	-13.00	-58.82	-68.63	-70.74	-1.08
237.26	V	-65.28	-13.00	-52.28	-61.79	-69.72	4.44
357.98	V	-73.65	-13.00	-60.65	-70.81	-78.02	4.37
768.45	V	-65.87	-13.00	-52.87	-70.07	-69.30	3.43

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

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 0,Channel: 20325						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
38.73	H	-58.41	-13.00	-45.41	-60.69	-45.78	-12.63
70.74	H	-67.77	-13.00	-54.77	-60.96	-62.85	-4.92
153.19	H	-71.51	-13.00	-58.51	-65.32	-70.63	-0.88
237.47	H	-77.37	-13.00	-64.37	-68.61	-81.81	4.44
356.74	H	-73.84	-13.00	-60.84	-70.08	-78.21	4.37
768.57	H	-65.91	-13.00	-52.91	-69.22	-69.34	3.43
37.74	V	-63.85	-13.00	-50.85	-55.56	-51.05	-12.80
69.77	V	-63.25	-13.00	-50.25	-55.49	-58.05	-5.20
150.04	V	-74.17	-13.00	-61.17	-70.94	-73.12	-1.05
235.10	V	-73.36	-13.00	-60.36	-69.80	-77.80	4.44
355.16	V	-73.76	-13.00	-60.76	-70.90	-78.14	4.38
768.59	V	-65.68	-13.00	-52.68	-69.88	-69.11	3.43

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

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 0,Channel: 20300						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
38.73	H	-56.29	-13.00	-43.29	-58.57	-43.66	-12.63
69.77	H	-68.98	-13.00	-55.98	-62.19	-63.78	-5.20
151.62	H	-66.69	-13.00	-53.69	-60.50	-65.72	-0.97
235.38	H	-78.78	-13.00	-65.78	-69.98	-83.22	4.44
356.01	H	-74.45	-13.00	-61.45	-70.68	-78.82	4.37
767.15	H	-65.31	-13.00	-52.31	-68.60	-68.74	3.43
38.70	V	-62.83	-13.00	-49.83	-54.75	-50.19	-12.64
70.74	V	-62.14	-13.00	-49.14	-54.37	-57.22	-4.92
150.83	V	-74.12	-13.00	-61.12	-70.83	-73.11	-1.01
235.92	V	-70.95	-13.00	-57.95	-67.41	-75.39	4.44
356.65	V	-73.58	-13.00	-60.58	-70.73	-77.95	4.37
766.44	V	-65.25	-13.00	-52.25	-69.45	-68.68	3.43

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

3.2.5 Test Result of Radiated Emissions above 1GHz

Mode	LTE Band 4, CB:1.4MHz, 1RB, Offset 0,Channel:19957						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3420.40	H	-54.22	-13.00	-41.22	-66.57	-61.06	6.84
5131.00	H	-51.13	-13.00	-38.13	-69.19	-57.49	6.36
6841.50	H	-49.30	-13.00	-36.30	-70.81	-53.80	4.50
3420.40	V	-49.23	-13.00	-36.23	-61.71	-56.07	6.84
5131.00	V	-49.48	-13.00	-36.48	-66.59	-55.84	6.36
6841.50	V	-48.03	-13.00	-35.03	-68.17	-52.53	4.50

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 0, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3463.80	H	-55.11	-13.00	-42.11	-67.75	-61.98	6.87
5196.10	H	-52.26	-13.00	-39.26	-70.26	-58.64	6.38
6928.40	H	-47.26	-13.00	-34.26	-69.06	-51.69	4.43
3463.80	V	-50.74	-13.00	-37.74	-63.48	-57.61	6.87
5196.10	V	-51.11	-13.00	-38.11	-68.34	-57.49	6.38
6928.40	V	-46.10	-13.00	-33.10	-66.47	-50.53	4.43

Mode	LTE Band 4, CB: 1.4MHz, 1RB, Offset 0, Channel : 20393						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3507.20	H	-55.22	-13.00	-42.22	-68.14	-62.12	6.90
5261.20	H	-53.11	-13.00	-40.11	-71.23	-59.57	6.46
7015.20	H	-52.09	-13.00	-39.09	-71.19	-56.44	4.35
3507.20	V	-51.36	-13.00	-38.36	-64.36	-58.26	6.90
5261.20	V	-52.98	-13.00	-39.98	-70.45	-59.44	6.46
7015.20	V	-50.39	-13.00	-37.39	-71.08	-54.74	4.35

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

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 0, Channel : 19965						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3420.40	H	-54.26	-13.00	-41.26	-66.61	-61.10	6.84
5131.00	H	-52.16	-13.00	-39.16	-70.22	-58.52	6.36
6841.50	H	-49.60	-13.00	-36.60	-71.11	-54.10	4.50
3420.40	V	-49.80	-13.00	-36.80	-62.28	-56.64	6.84
5131.00	V	-50.03	-13.00	-37.03	-67.14	-56.39	6.36
6841.50	V	-48.99	-13.00	-35.99	-69.13	-53.49	4.50

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 0, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3462.40	H	-55.32	-13.00	-42.32	-67.95	-62.19	6.87
5193.20	H	-54.89	-13.00	-41.89	-72.90	-61.27	6.38
6925.50	H	-48.39	-13.00	-35.39	-70.18	-52.83	4.44
3462.40	V	-49.52	-13.00	-36.52	-62.26	-56.39	6.87
5193.20	V	-51.55	-13.00	-38.55	-68.78	-57.93	6.38
6925.50	V	-47.77	-13.00	-34.77	-68.13	-52.21	4.44

Mode	LTE Band 4, CB: 3MHz, 1RB, Offset 0, Channel : 20385						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3504.30	H	-56.35	-13.00	-43.35	-69.25	-63.25	6.90
5256.90	H	-54.48	-13.00	-41.48	-72.59	-60.94	6.46
7009.40	H	-50.52	-13.00	-37.52	-72.59	-54.88	4.36
3504.30	V	-50.12	-13.00	-37.12	-63.10	-57.02	6.90
5256.90	V	-53.79	-13.00	-40.79	-71.25	-60.25	6.46
7009.40	V	-49.61	-13.00	-36.61	-70.24	-53.97	4.36

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

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 0, Channel : 19975						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3420.40	H	-54.01	-13.00	-41.01	-66.36	-60.85	6.84
5131.00	H	-51.51	-13.00	-38.51	-69.57	-57.87	6.36
6841.50	H	-51.69	-13.00	-38.69	-73.20	-56.19	4.50
3420.40	V	-50.63	-13.00	-37.63	-63.11	-57.47	6.84
5131.00	V	-49.15	-13.00	-36.15	-66.26	-55.51	6.36
6841.50	V	-49.31	-13.00	-36.31	-69.45	-53.81	4.50

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 0, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3460.90	H	-55.12	-13.00	-42.12	-67.74	-61.99	6.87
5190.30	H	-52.39	-13.00	-39.39	-70.43	-58.77	6.38
6921.10	H	-47.45	-13.00	-34.45	-69.22	-51.89	4.44
3460.90	V	-50.07	-13.00	-37.07	-62.80	-56.94	6.87
5190.30	V	-51.06	-13.00	-38.06	-68.28	-57.44	6.38
6921.10	V	-46.76	-13.00	-33.76	-67.10	-51.20	4.44

Mode	LTE Band 4, CB: 5MHz, 1RB, Offset 0, Channel : 20375						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3500.00	H	-55.51	-13.00	-42.51	-68.39	-62.41	6.90
5251.10	H	-54.33	-13.00	-41.33	-72.43	-60.78	6.45
7000.70	H	-51.35	-13.00	-38.35	-73.39	-55.73	4.38
3500.00	V	-50.23	-13.00	-37.23	-63.19	-57.13	6.90
5251.10	V	-51.76	-13.00	-38.76	-69.19	-58.21	6.45
7000.70	V	-49.69	-13.00	-36.69	-70.25	-54.07	4.38

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

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 0, Channel : 20000						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3420.40	H	-54.94	-13.00	-41.94	-67.29	-61.78	6.84
5131.00	H	-52.04	-13.00	-39.04	-70.10	-58.40	6.36
6843.00	H	-49.63	-13.00	-36.63	-71.14	-54.13	4.50
3420.40	V	-49.11	-13.00	-36.11	-61.59	-55.95	6.84
5131.00	V	-49.49	-13.00	-36.49	-66.60	-55.85	6.36
6843.00	V	-48.23	-13.00	-35.23	-68.37	-52.73	4.50

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 0, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3456.60	H	-54.88	-13.00	-41.88	-67.46	-61.75	6.87
5184.50	H	-53.44	-13.00	-40.44	-71.45	-59.82	6.38
6912.40	H	-48.14	-13.00	-35.14	-69.88	-52.59	4.45
3456.60	V	-49.79	-13.00	-36.79	-62.48	-56.66	6.87
5184.50	V	-52.54	-13.00	-39.54	-69.75	-58.92	6.38
6912.40	V	-47.56	-13.00	-34.56	-67.88	-52.01	4.45

Mode	LTE Band 4, CB: 10MHz, 1RB, Offset 0, Channel : 20350						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3491.30	H	-54.37	-13.00	-41.37	-67.19	-58.26	3.89
5236.60	H	-55.32	-13.00	-42.32	-73.40	-61.75	6.43
6981.90	H	-52.46	-13.00	-39.46	-74.44	-56.85	4.39
3491.30	V	-50.57	-13.00	-37.57	-63.48	-54.46	3.89
5236.60	V	-53.81	-13.00	-40.81	-71.20	-60.24	6.43
6981.90	V	-50.93	-13.00	-37.93	-71.44	-55.32	4.39

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

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 0, Channel : 20025						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3421.50	H	-55.93	-13.00	-42.93	-68.28	-62.77	6.84
5132.50	H	-52.83	-13.00	-39.83	-70.88	-59.19	6.36
6843.20	H	-50.75	-13.00	-37.75	-72.27	-55.25	4.50
3421.50	V	-49.65	-13.00	-36.65	-62.13	-56.49	6.84
5132.50	V	-50.07	-13.00	-37.07	-67.18	-56.43	6.36
6843.20	V	-49.15	-13.00	-36.15	-69.29	-53.65	4.50

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 0, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3451.60	H	-55.69	-13.00	-42.69	-68.24	-62.56	6.87
5177.50	H	-53.54	-13.00	-40.54	-71.56	-59.91	6.37
6903.20	H	-48.14	-13.00	-35.14	-69.85	-52.59	4.45
3451.60	V	-50.58	-13.00	-37.58	-63.24	-57.45	6.87
5177.50	V	-52.36	-13.00	-39.36	-69.56	-58.73	6.37
6903.20	V	-46.95	-13.00	-33.95	-67.25	-51.40	4.45

Mode	LTE Band 4, CB: 15MHz, 1RB, Offset 0, Channel : 20325						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3481.70	H	-55.46	-13.00	-42.46	-68.21	-62.35	6.89
5222.40	H	-55.22	-13.00	-42.22	-73.27	-61.63	6.41
6963.30	H	-52.49	-13.00	-39.49	-74.40	-56.90	4.41
3481.70	V	-50.62	-13.00	-37.62	-63.47	-57.51	6.89
5222.40	V	-53.41	-13.00	-40.41	-70.74	-59.82	6.41
6963.30	V	-50.47	-13.00	-37.47	-70.92	-54.88	4.41

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

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 0, Channel : 20050						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3421.90	H	-55.31	-13.00	-42.31	-67.67	-62.16	6.85
5133.90	H	-53.21	-13.00	-40.21	-71.26	-59.57	6.36
6844.40	H	-51.63	-13.00	-38.63	-73.15	-56.13	4.50
3421.90	V	-49.25	-13.00	-36.25	-61.73	-56.10	6.85
5133.90	V	-51.09	-13.00	-38.09	-68.20	-57.45	6.36
6844.40	V	-49.59	-13.00	-36.59	-69.74	-54.09	4.50

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 0, Channel : 20175						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3446.50	H	-55.64	-13.00	-42.64	-69.16	-62.50	6.86
5171.50	H	-55.38	-13.00	-42.38	-73.40	-61.75	6.37
6893.60	H	-48.58	-13.00	-35.58	-70.26	-53.04	4.46
3446.50	V	-50.47	-13.00	-37.47	-63.11	-57.33	6.86
5171.50	V	-52.65	-13.00	-39.65	-69.83	-59.02	6.37
6893.60	V	-47.98	-13.00	-34.98	-68.25	-52.44	4.46

Mode	LTE Band 4, CB: 20MHz, 1RB, Offset 0, Channel : 20300						
Frequency (MHz)	Antenna Polarity	E.I.R.P (dBm)	Limit (dBm)	Margin (dB)	S.A Reading (dBm)	S.G Power Vaule (dBm)	Correction Factor (dB)
3472.50	H	-54.74	-13.00	-41.74	-67.43	-61.62	6.88
5209.10	H	-55.19	-13.00	-42.19	-73.21	-61.58	6.39
6944.30	H	-53.92	-13.00	-40.92	-75.77	-58.34	4.42
3472.50	V	-51.58	-13.00	-38.58	-64.37	-58.46	6.88
5209.10	V	-54.05	-13.00	-41.05	-71.33	-60.44	6.39
6944.30	V	-51.63	-13.00	-38.63	-72.03	-56.05	4.42

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

3.3 Conducted Emissions

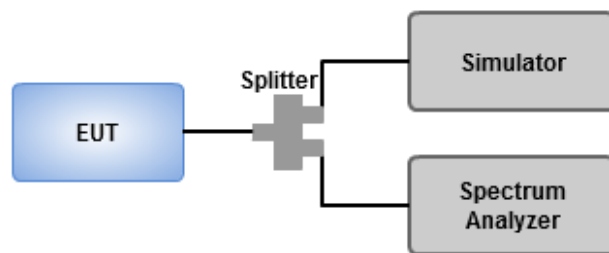
3.3.1 Limit of Conducted Emissions

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 $43 + 10 \log(P)$ dB equal to -13dBm.

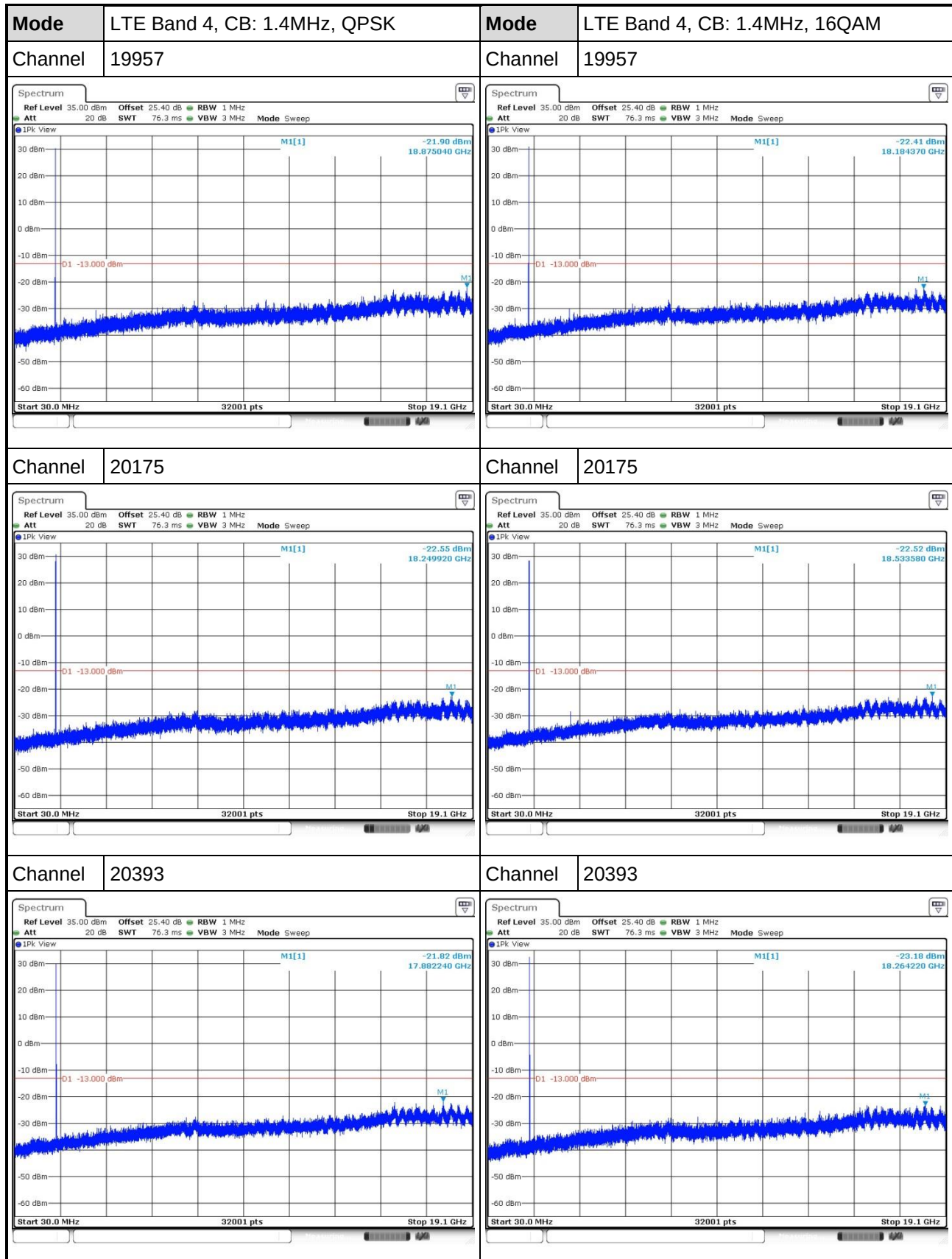
3.3.2 Test Procedures

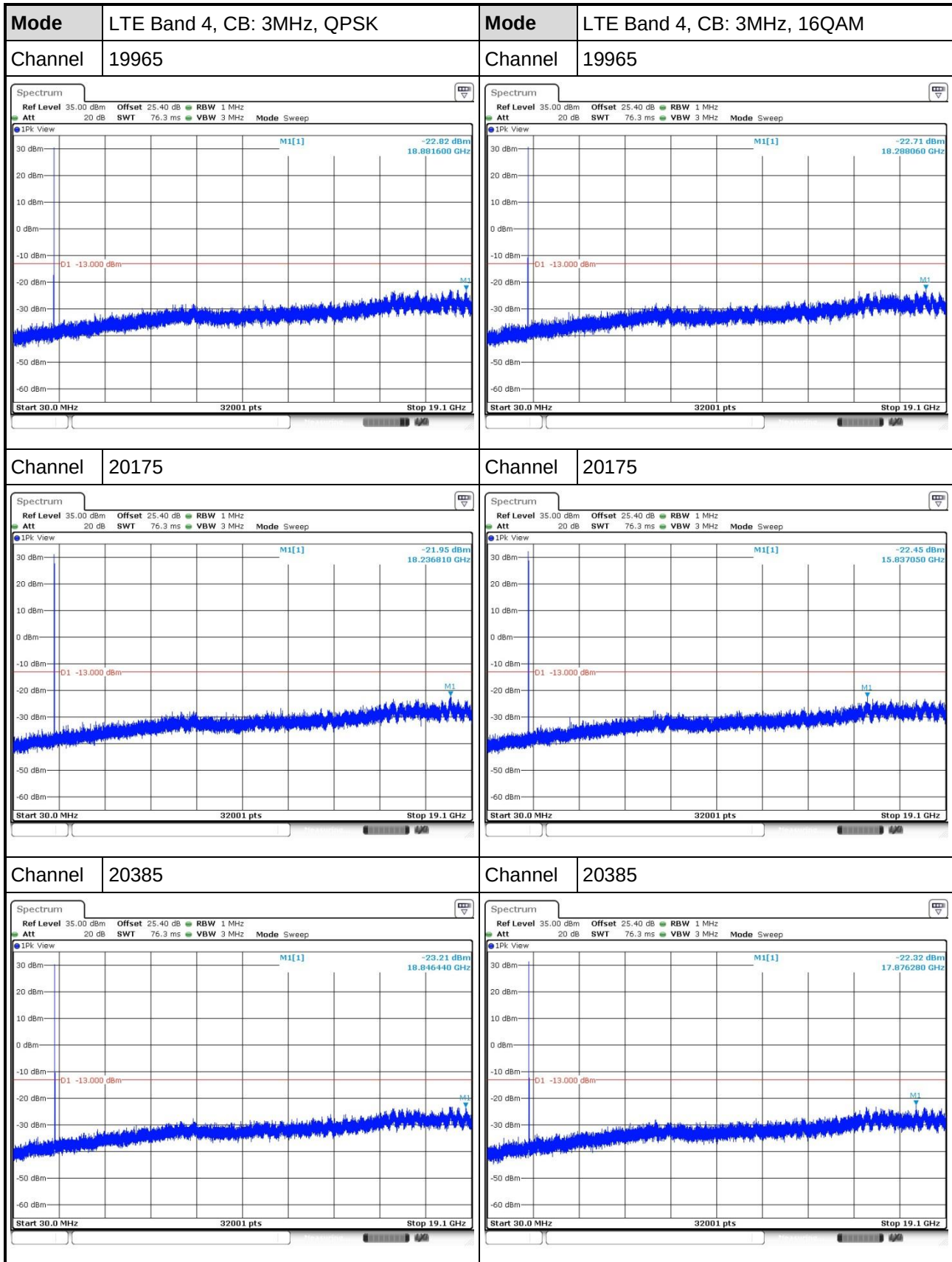
1. Lowest, middle and highest operating channels are tested for this item.
2. Scan frequency range is from 30 MHz~19.1 GHz.
3. Set RBW = 1MHz, VBW = 3MHz, detector =Peak, sweep time = auto.
4. Record the max trace value and capture the test plot of each sub frequency band.

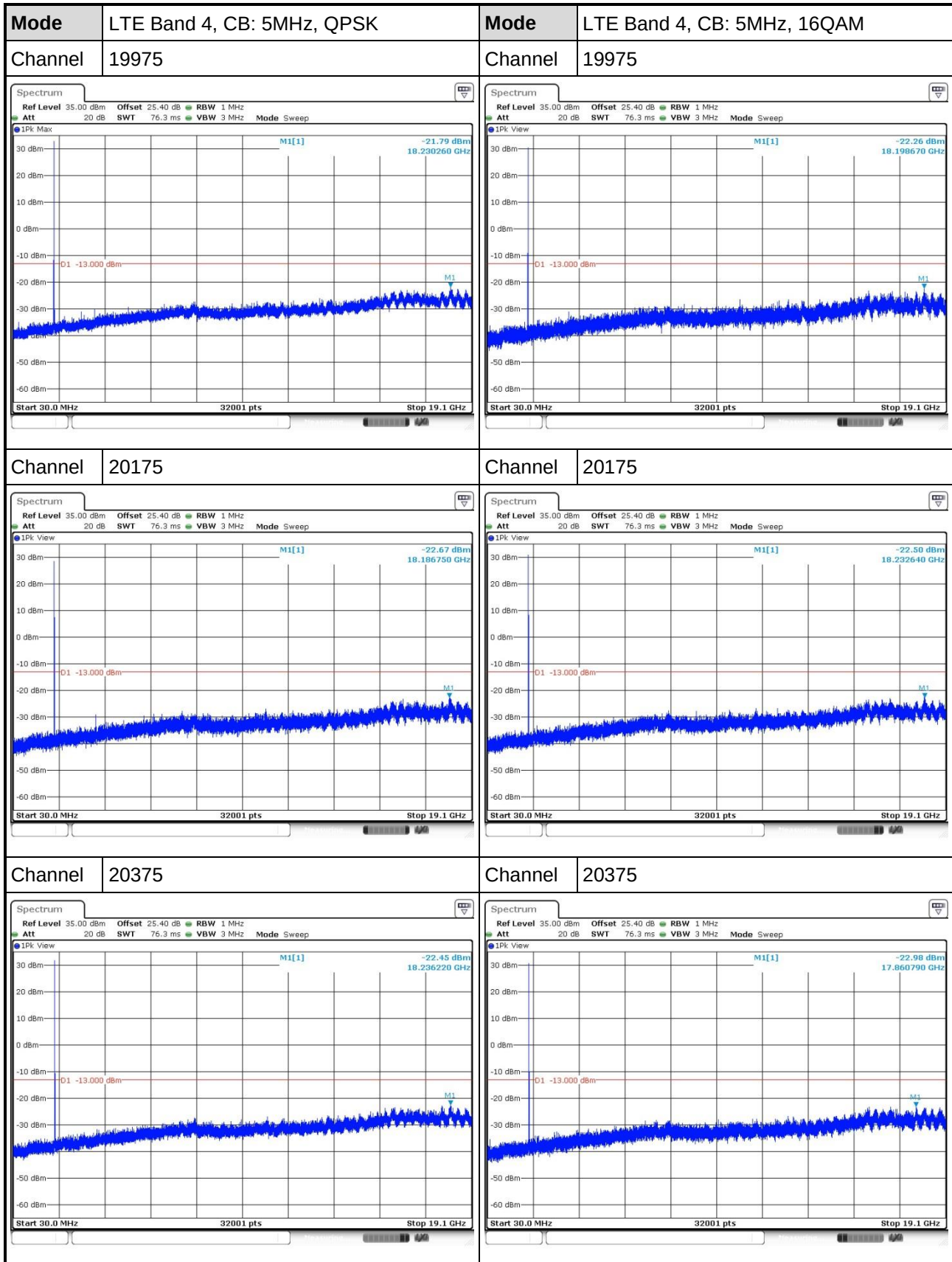
3.3.3 Test Setup

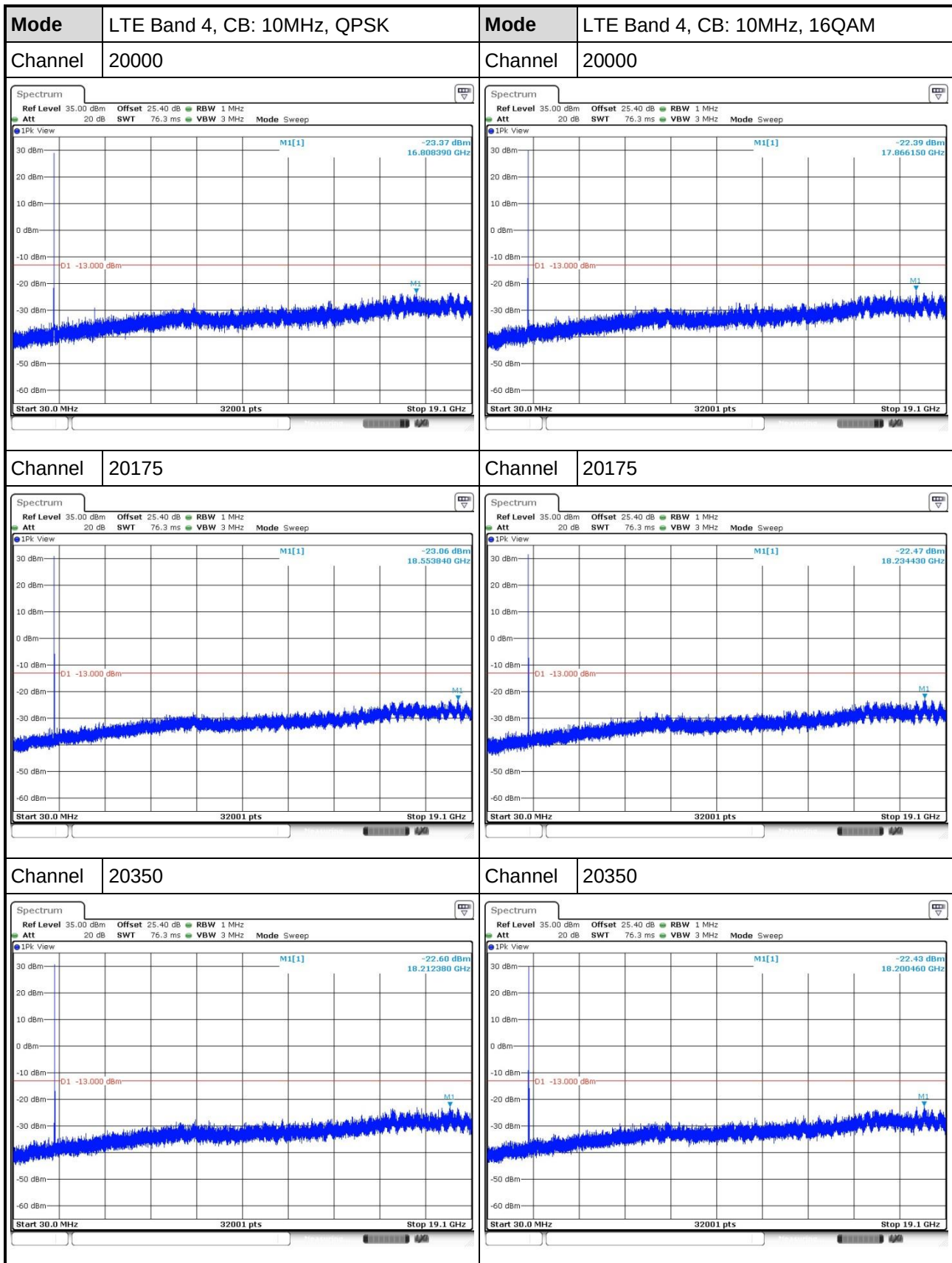


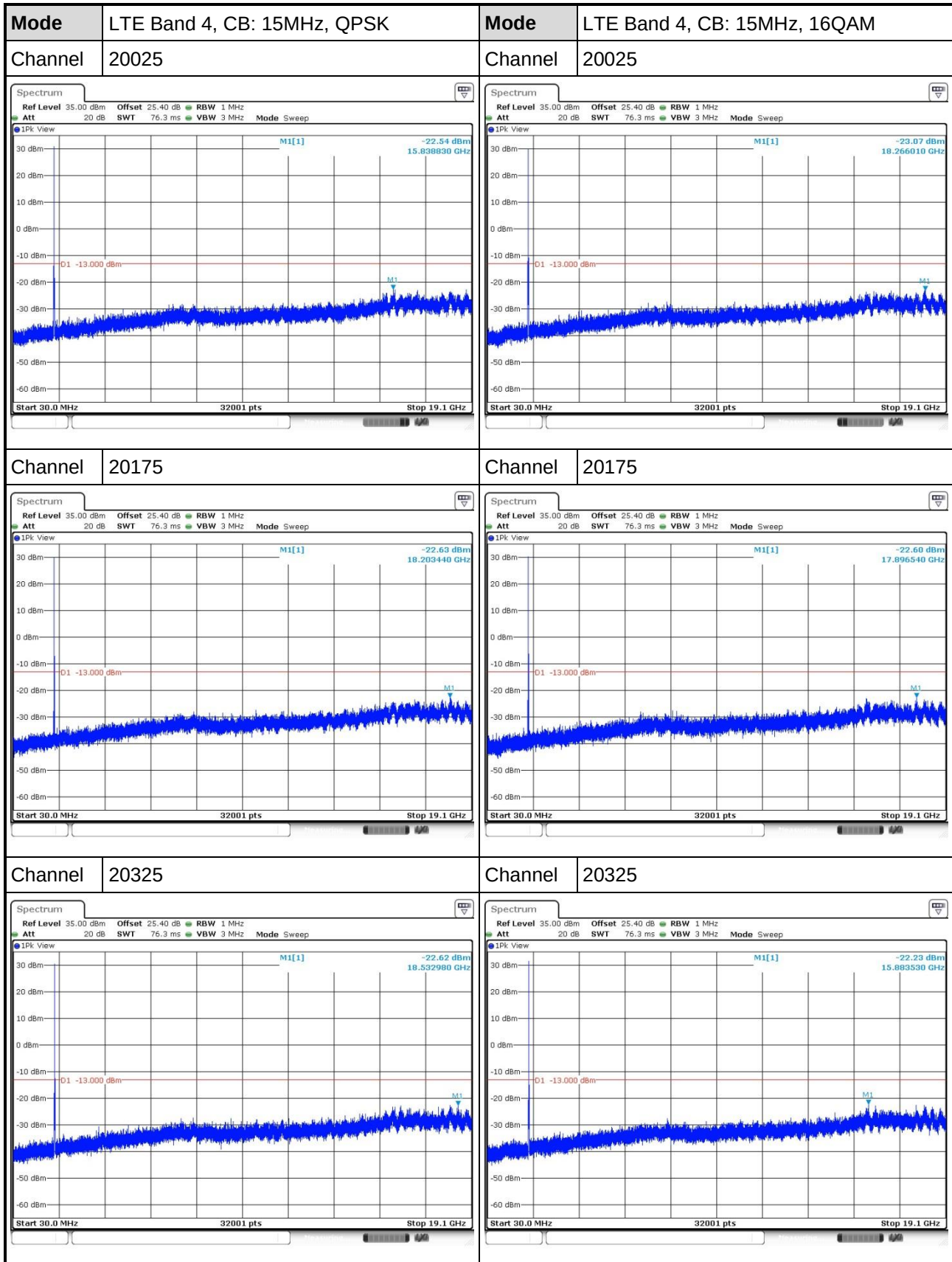
3.3.4 Test Result of Conducted Emissions

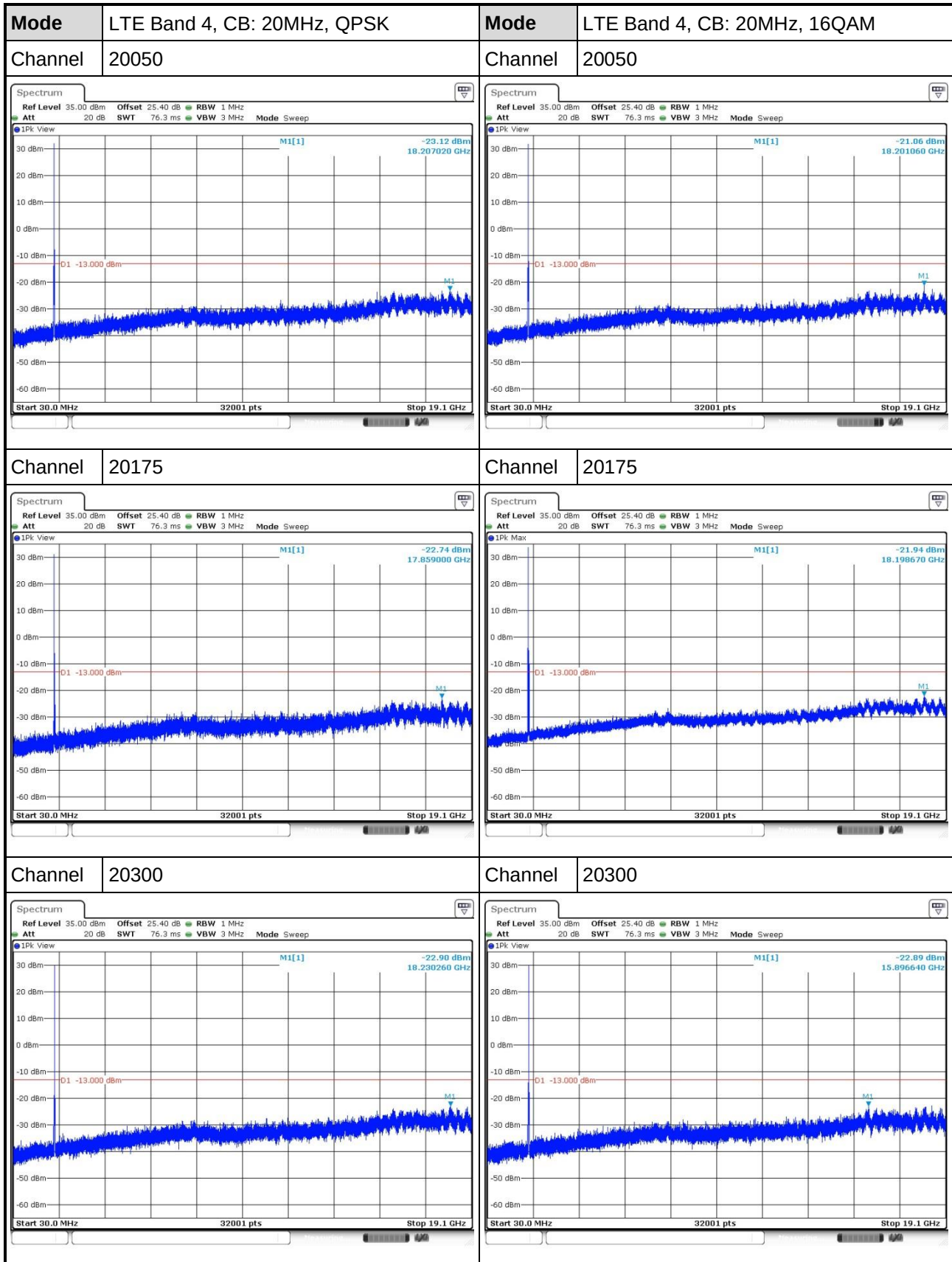












3.4 Band Edge

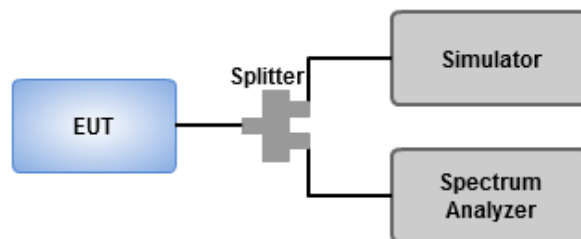
3.4.1 Limit of Band Edge

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 $43 + 10 \log(P)$ dB equal to -13dBm.

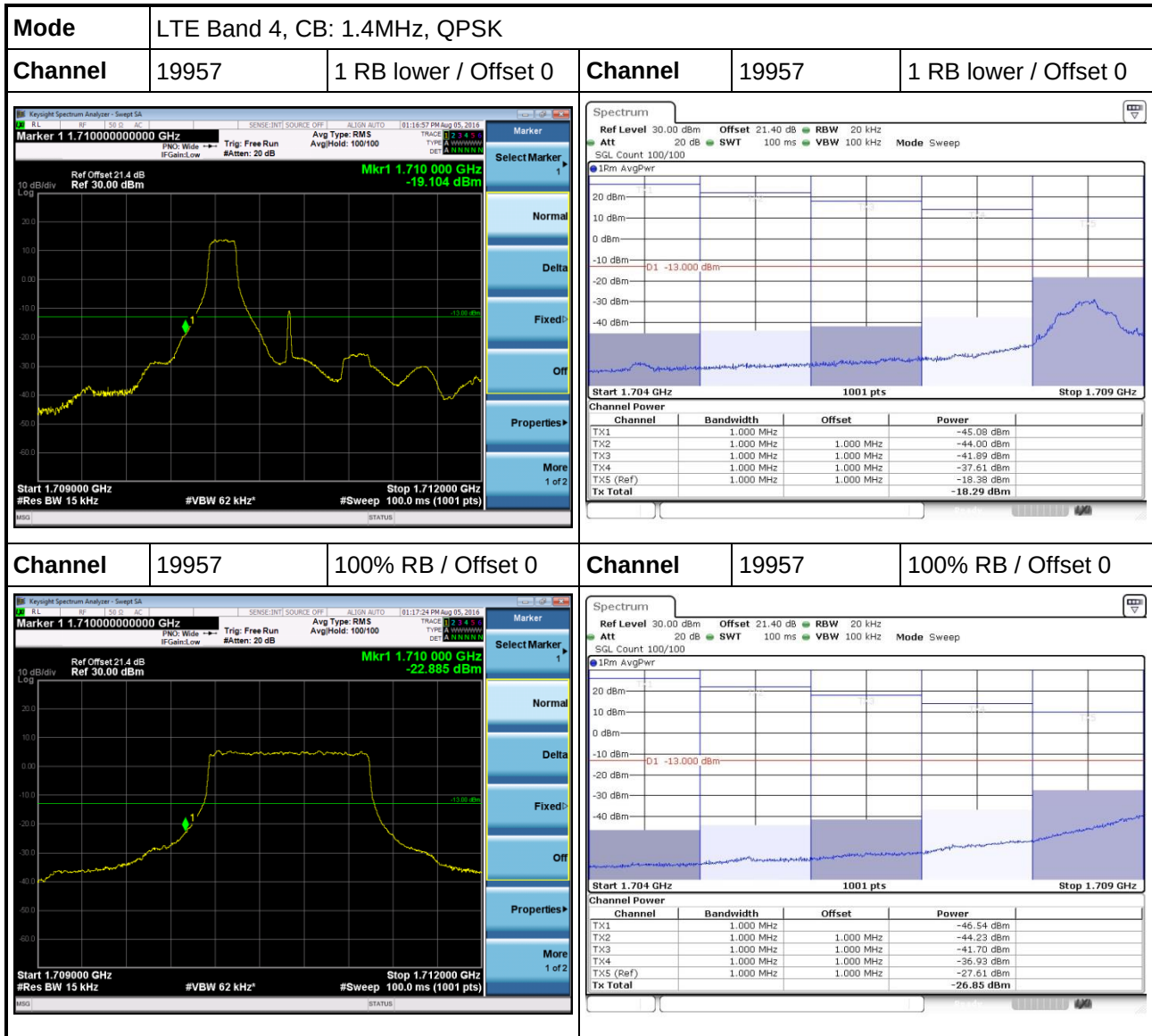
3.4.2 Test Procedures

- 1 Lowest and highest operating channels are tested for this item.
- 2 Set RBW = 15 / 39 / 56 / 110 / 160 / 220 kHz, VBW = 62 / 120 / 180 / 330 / 510 / 680 kHz for channel bandwidth 1.4 / 3 / 5 / 10 / 15 / 20 MHz, detector = RMS, sweep time = auto to measure trace.
- 3 Set RBW = 20 / 50 / 100 / 200 / 200 / 300 kHz, VBW = 100 / 200 / 300 / 1000 / 1000 / 1000 kHz, for channel bandwidth 1.4 / 3 / 5 / 10 / 15 / 20 MHz, detector = RMS and use channel power measurement function of spectrum analyzer to integrate power over 1MHz.

3.4.3 Test Setup



3.4.4 Test Result of Band Edge





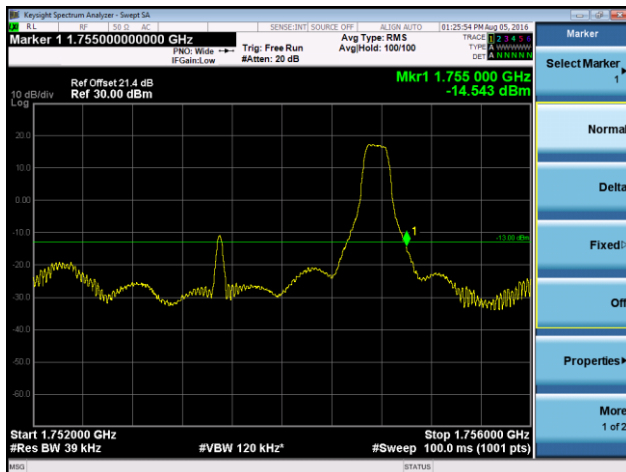
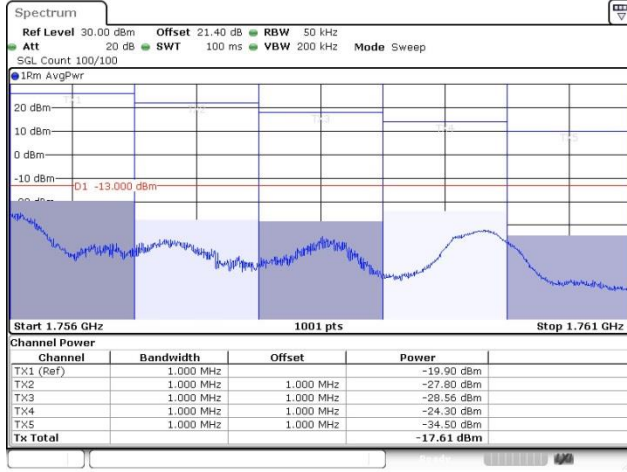










Mode		LTE Band 4, CB: 3MHz, 16QAM							
Channel		20385	1 RB upper / Offset 0		Channel		20385	1 RB upper / Offset 0	
									
Channel		20385	100% RB / Offset 0		Channel		20385	100% RB / Offset 0	
