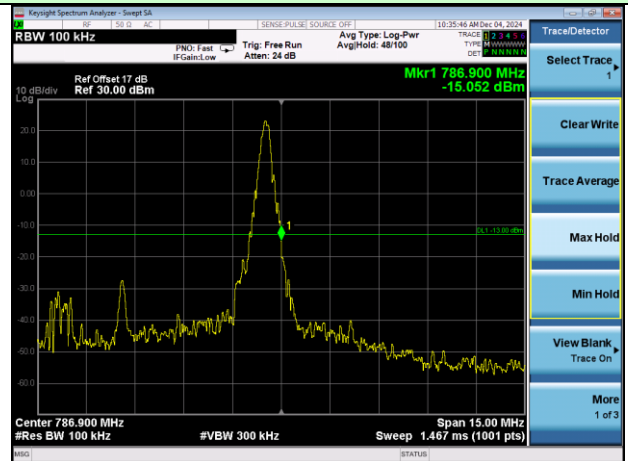


Test Mode: LTE Band 13 / 10MHz / 1RB / 16-QAM

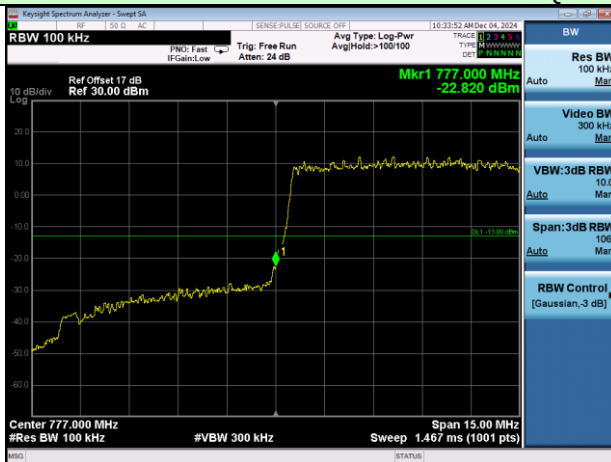


Middle channel



Middle channel

Test Mode: LTE Band 13 / 10MHz / 50RB / 16-QAM

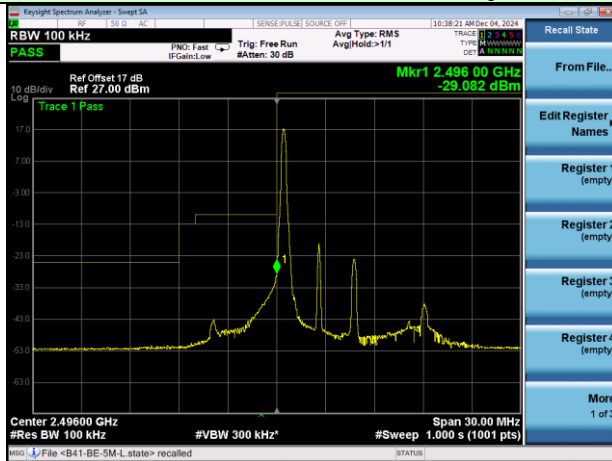


Middle channel



Middle channel

Test Mode: LTE Band 41 / 5MHz / 1RB / QPSK

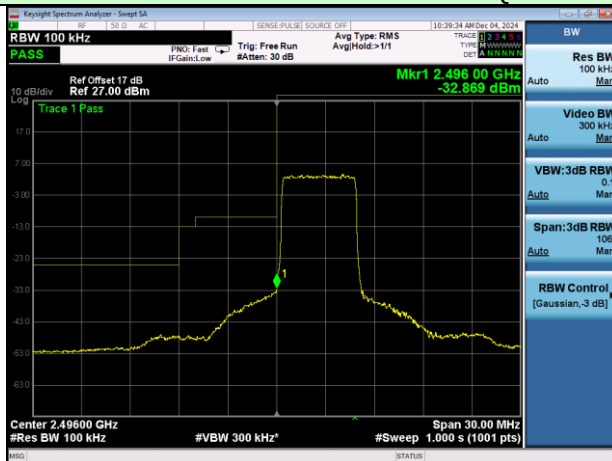


Lowest channel



Highest channel

Test Mode: LTE Band 41 / 5MHz / 25RB / QPSK



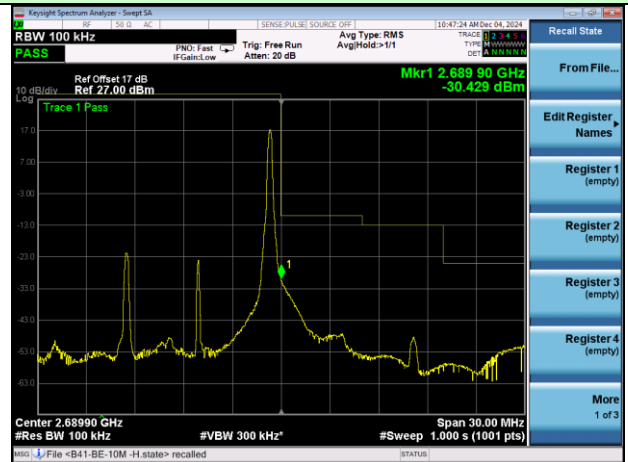
Lowest channel



Highest channel

[illegible]

Highest channel



Keysight Spectrum Analyzer - Sweep 55

SENSE-PULSE SOURCE OFF

10:45:41 AM Dec 04, 2024

RBW 100 kHz

PNO: Fast IF Gain: Low Trig: Free Run Avg Type: RMS Mkr1 2.496 00 GHz -35.531 dBm

PASS #Atten: 30 dB

Avg Hold>1/1 TYPE H-WWWWD DEP A-HHWWW

Ref Offset 17 dB Ref 27.00 dBm

Trace 1 Pass

10 dB/div Log

Center 2.49600 GHz Span 30.00 MHz

#Res BW 100 kHz #VBW 300 kHz* #Sweep 1.000 s (1001 pts)

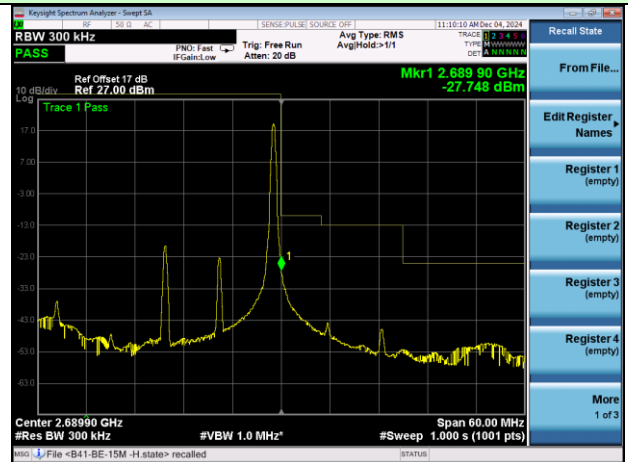
[STATUS]

Highest channel



[illegible]

Highest channel



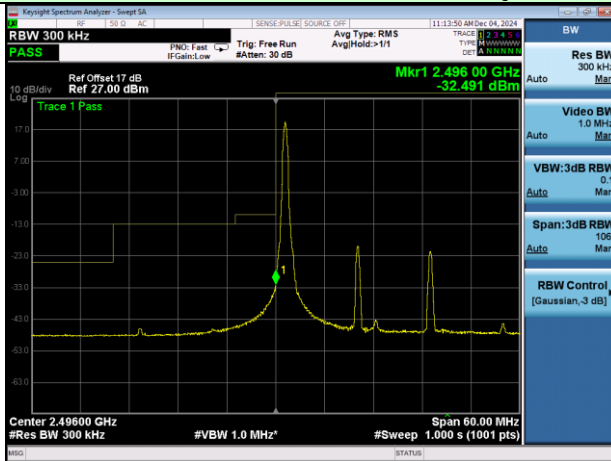
The screenshot displays the Keysight Spectrum Analyzer interface. At the top, it shows the frequency range from 2.495 GHz to 2.497 GHz. The main plot area shows a signal trace labeled "Trace 1 Pass" with a peak level of -31.875 dBm. The reference level is set to Ref OffSet 17 dB and Ref 27.00 dBm. The center frequency is 2.49600 GHz, and the resolution bandwidth (VBW) is 1.0 MHz. The span is 60.00 MHz. The bottom status bar indicates the center frequency, resolution bandwidth, sweep time, and number of points.

Parameter	Value
Center Frequency	2.49600 GHz
Resolution Bandwidth (#VBW)	1.0 MHz*
Sweep Time	Span 60.00 MHz / 1.000 s (1001 pts)

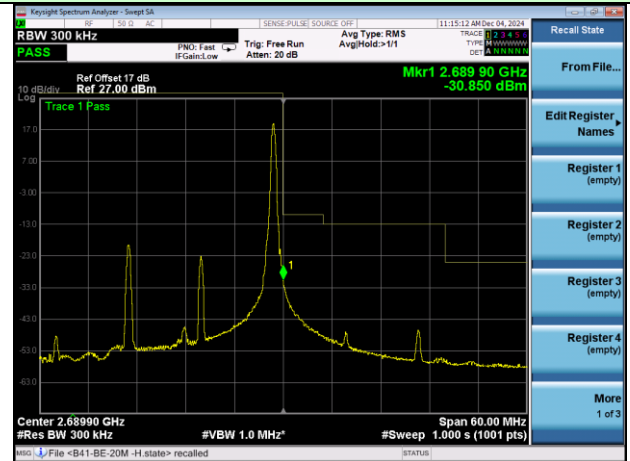
Highest channel



Test Mode: LTE Band 41 / 20MHz / 1RB / QPSK

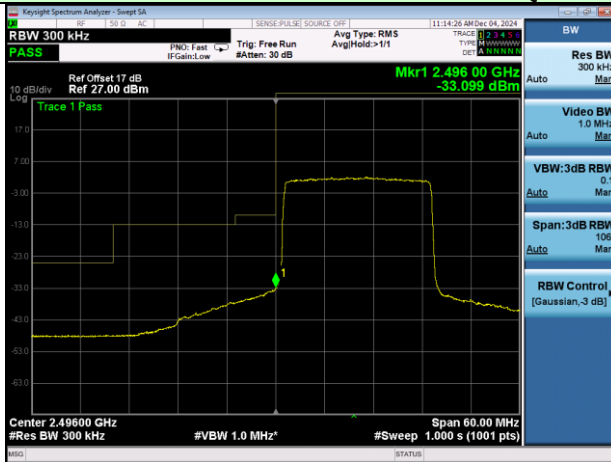


Lowest channel



Highest channel

Test Mode: LTE Band 41 / 20MHz / 100RB / QPSK

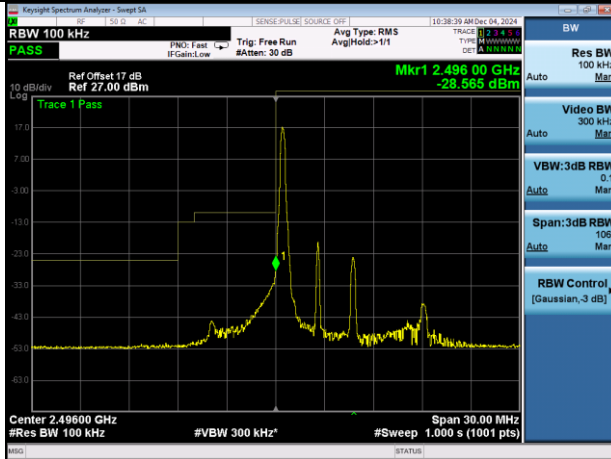


Lowest channel

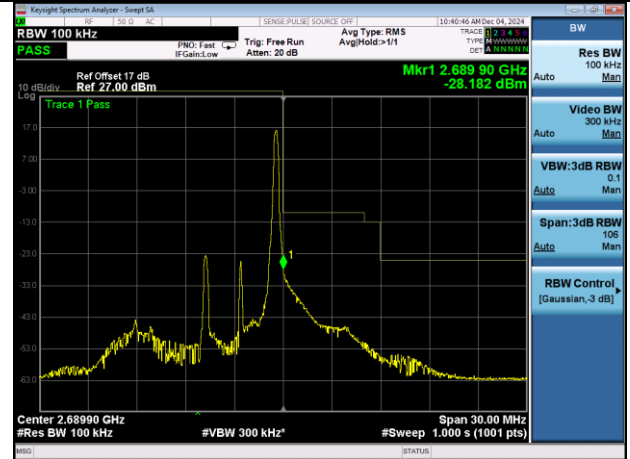


Highest channel

Test Mode: LTE Band 41 / 5MHz / 1RB / 16-QAM



Lowest channel



Highest channel

Test Mode: LTE Band 41 / 5MHz / 25RB / 16-QAM



Lowest channel



Highest channel

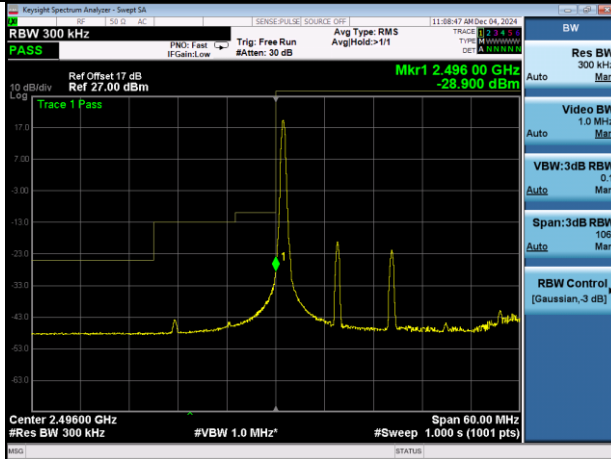
[illegible]

Highest channel

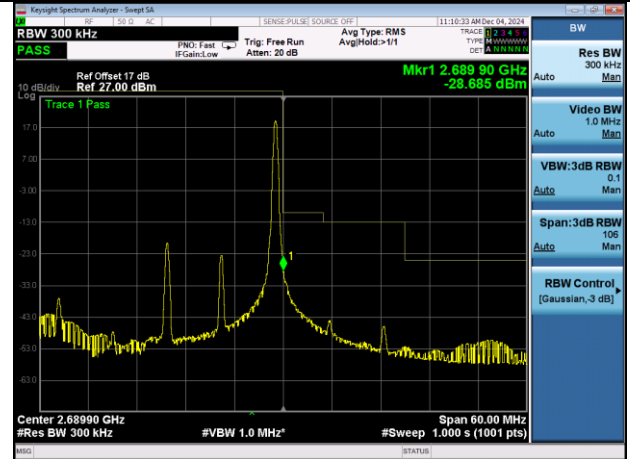
[illegible]

Highest channel

Test Mode: LTE Band 41 / 15MHz / 1 RB / 16-QAM

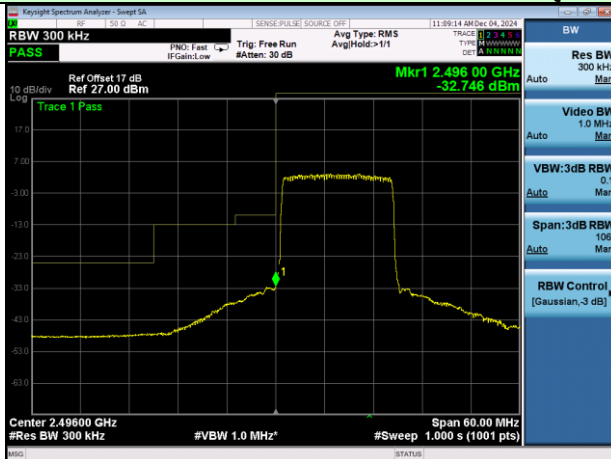


Lowest channel



Highest channel

Test Mode: LTE Band 41 / 15MHz / 75RB / 16-QAM

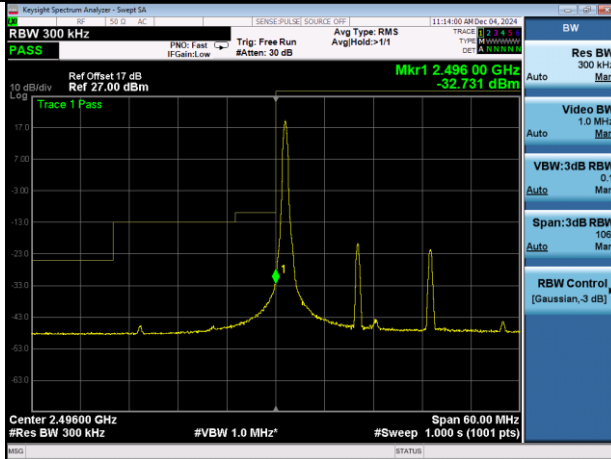


Lowest channel

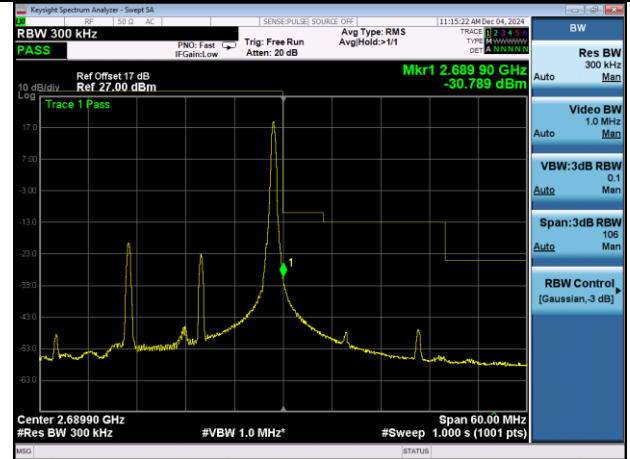


Highest channel

Test Mode: LTE Band 41 / 20MHz / 1RB / 16-QAM

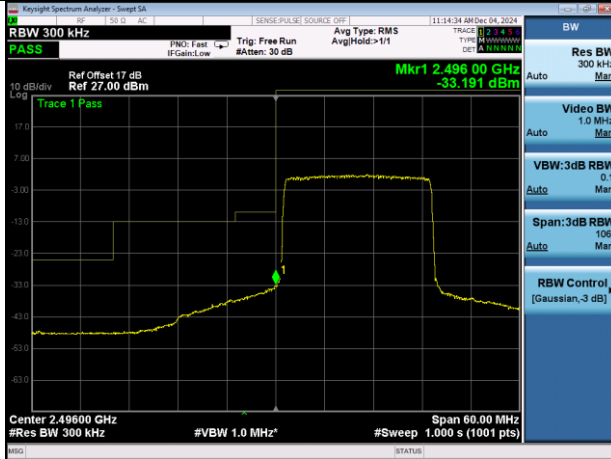


Lowest channel



Highest channel

Test Mode: LTE Band 41 / 20MHz / 100RB / 16-QAM



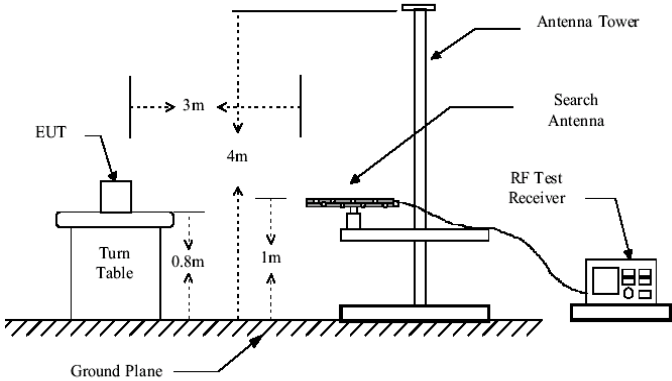
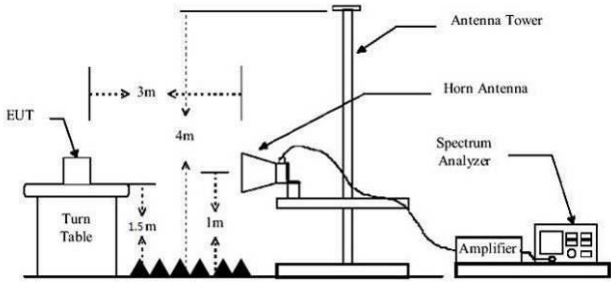
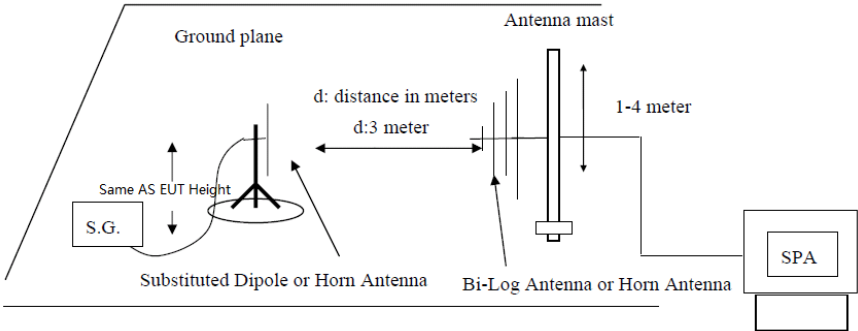
Lowest channel



Highest channel

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

4.8 ERP, EIRP Measurement

Test Requirement:	FCC part22.913(a), FCC part24.232(b), FCC part 27.50(h) and FCC part 27.53
Test Method:	ANSI C63.26:2015
Limit:	LTE Band 2: 2W (EIRP) LTE Band 4: 1W (EIRP) LTE Band 5(Upper Band): [7W (ERP) for FCC] LTE Band 7: 2W (EIRP) LTE Band 12: 2W (ERP) LTE Band 13: 2W (ERP) LTE Band 41: 2W (EIRP)
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the measurement, the EUT was communication with the station. The highest emission was recorded with the rotation of the turntable and the lowering of the test antenna from 4m to 1m. The reading was recorded and the field strength (E in dBuV/m) was calculated. 3. ERP were measured using a substitution method. The EUT was replaced by dipole antenna connected, the S.G. output was recorded and ERP was calculated asfollows: $\text{ERP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBd)} - \text{Cable Loss (dB)}$ 4. EIRP were measured using a substitution method. The EUT was replaced by or horn antenna connected, the S.G. output was recorded and EIRP was calculated as follows: $\text{EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain (dBi)} - \text{Cable Loss (dB)}$
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass
Remark:	H, E1, E2 mean for EUT polarization of X, Y, Z

Measurement Data

EUT mode	RB Size	RB Offset	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
LTE Band 2 (1.4MHz) QPSK	6	0	Lowest	H	V	23.43	33.00	Pass
					H	23.34		
				E1	V	23.67		
					H	23.59		
				E2	V	23.32		
					H	23.69		
	6	0	Middle	H	V	23.36	33.00	Pass
					H	23.46		
				E1	V	23.56		
					H	23.51		
				E2	V	23.51		
					H	23.65		
	6	0	Highest	H	V	23.67	33.00	Pass
					H	23.77		
				E1	V	23.39		
					H	23.55		
				E2	V	23.34		
					H	23.51		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (3MHz) QPSK	Lowest	15	0	H	V	23.23	33.00	Pass
					H	22.96		
				E1	V	23.09		
					H	22.99		
				E2	V	23.15		
					H	23.18		
	Middle	15	0	H	V	23.05	33.00	Pass
					H	23.40		
				E1	V	23.12		
					H	23.39		
				E2	V	23.15		
					H	23.35		
	Highest	15	0	H	V	23.34	33.00	Pass
					H	23.33		
				E1	V	22.95		
					H	23.07		
				E2	V	23.22		
					H	23.28		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (5MHz) QPSK	Lowest	25	0	H	V	22.81	33.00	Pass
					H	22.51		
				E1	V	22.89		
					H	22.93		
				E2	V	22.74		
					H	22.66		
	Middle	25	0	H	V	22.66	33.00	Pass
					H	22.50		
				E1	V	22.57		
					H	22.50		
				E2	V	22.96		
					H	22.89		
	Highest	25	0	H	V	22.51	33.00	Pass
					H	22.53		
				E1	V	22.56		
					H	22.92		
				E2	V	22.77		
					H	22.95		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (10MHz) QPSK	Lowest	50	0	H	V	22.18	33.00	Pass
					H	22.39		
				E1	V	22.32		
					H	22.29		
				E2	V	22.16		
					H	22.39		
	Middle	50	0	H	V	22.27	33.00	Pass
					H	22.40		
				E1	V	22.51		
					H	22.29		
				E2	V	22.10		
					H	22.45		
	Highest	50	0	H	V	22.35	33.00	Pass
					H	22.15		
				E1	V	22.59		
					H	22.28		
				E2	V	22.34		
					H	22.45		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (15MHz) QPSK	Lowest	75	0	H	V	21.71	33.00	Pass
					H	21.82		
				E1	V	21.98		
					H	21.99		
				E2	V	21.72		
					H	22.07		
	Middle	75	0	H	V	22.02	33.00	Pass
					H	22.14		
				E1	V	22.10		
					H	21.96		
				E2	V	22.19		
					H	21.82		
	Highest	75	0	H	V	22.17	33.00	Pass
					H	22.07		
				E1	V	22.03		
					H	21.85		
				E2	V	22.03		
					H	21.98		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (20MHz) QPSK	Lowest	100	0	H	V	21.34	33.00	Pass
					H	21.42		
				E1	V	21.66		
					H	21.69		
				E2	V	21.76		
					H	21.54		
	Middle	100	0	H	V	21.63	33.00	Pass
					H	21.48		
				E1	V	21.40		
					H	21.43		
				E2	V	21.80		
					H	21.62		
	Highest	100	0	H	V	21.38	33.00	Pass
					H	21.62		
				E1	V	21.52		
					H	21.41		
				E2	V	21.63		
					H	21.42		

EUT mode	RB Size	RB Offset	Channel	EUT Pol.	Antenna Pol.	EIRP (dBm)	Limit (dBm)	Result
LTE Band 2 (1.4MHz) 16 QAM	6	0	Lowest	H	V	23.66	33.00	Pass
					H	23.54		
				E1	V	23.36		
					H	23.40		
				E2	V	23.57		
					H	23.69		
	6	0	Middle	H	V	23.56	33.00	Pass
					H	23.73		
				E1	V	23.50		
					H	23.61		
				E2	V	23.44		
					H	23.79		
	6	0	Highest	H	V	23.65	33.00	Pass
					H	23.39		
				E1	V	23.73		
					H	23.67		
				E2	V	23.36		
					H	23.79		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (3MHz) 16 QAM	Lowest	15	0	H	V	22.97	33.00	Pass
					H	23.14		
				E1	V	23.37		
					H	23.04		
				E2	V	23.25		
					H	23.13		
	Middle	15	0	H	V	23.21	33.00	Pass
					H	23.09		
				E1	V	23.01		
					H	23.38		
				E2	V	22.91		
					H	22.93		
	Highest	15	0	H	V	23.10	33.00	Pass
					H	23.20		
				E1	V	23.03		
					H	22.97		
				E2	V	23.28		
					H	23.30		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (5MHz) 16 QAM	Lowest	25	0	H	V	22.81	33.00	Pass
					H	22.90		
				E1	V	23.00		
					H	22.52		
				E2	V	22.60		
					H	22.73		
	Middle	25	0	H	V	22.73	33.00	Pass
					H	22.70		
				E1	V	22.78		
					H	22.73		
				E2	V	22.62		
					H	22.94		
	Highest	25	0	H	V	22.89	33.00	Pass
					H	22.92		
				E1	V	22.70		
					H	22.55		
				E2	V	22.72		
					H	22.67		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (10MHz) 16 QAM	Lowest	50	0	H	V	22.46	33.00	Pass
					H	22.41		
				E1	V	22.35		
					H	22.58		
				E2	V	22.37		
					H	22.29		
	Middle	50	0	H	V	22.45	33.00	Pass
					H	22.49		
				E1	V	22.31		
					H	22.40		
				E2	V	22.32		
					H	22.47		
	Highest	50	0	H	V	22.33	33.00	Pass
					H	22.56		
				E1	V	22.16		
					H	22.24		
				E2	V	22.30		
					H	22.53		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (15MHz) 16 QAM	Lowest	75	0	H	V	22.08	33.00	Pass
					H	22.18		
				E1	V	21.97		
					H	22.11		
				E2	V	22.17		
					H	21.76		
	Middle	75	0	H	V	21.87	33.00	Pass
					H	21.82		
				E1	V	22.20		
					H	22.03		
				E2	V	21.87		
					H	21.77		
	Highest	75	0	H	V	21.99	33.00	Pass
					H	21.74		
				E1	V	22.05		
					H	22.05		
				E2	V	21.96		
					H	21.97		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 2 (20MHz) 16 QAM	Lowest	100	0	H	V	21.78	33.00	Pass
					H	21.44		
				E1	V	21.72		
					H	21.32		
				E2	V	21.33		
					H	21.67		
	Middle	100	0	H	V	21.43	33.00	Pass
					H	21.48		
				E1	V	21.44		
					H	21.77		
				E2	V	21.79		
					H	21.70		
	Highest	100	0	H	V	21.47	33.00	Pass
					H	21.34		
				E1	V	21.74		
					H	21.42		
				E2	V	21.49		
					H	21.30		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (1.4MHz) QPSK	Lowest	6	0	H	V	23.36	30.00	Pass
					H	23.39		
				E1	V	22.95		
					H	22.93		
				E2	V	22.94		
					H	23.30		
	Middle	6	0	H	V	23.29	30.00	Pass
					H	23.12		
				E1	V	23.24		
					H	23.32		
				E2	V	23.06		
					H	23.12		
	Highest	6	0	H	V	22.91	30.00	Pass
					H	23.26		
				E1	V	23.13		
					H	22.92		
				E2	V	23.11		
					H	23.19		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (3MHz) QPSK	Lowest	15	0	H	V	22.76	30.00	Pass
					H	22.66		
				E1	V	22.45		
					H	22.79		
				E2	V	22.80		
					H	22.53		
	Middle	15	0	H	V	22.83	30.00	Pass
					H	22.51		
				E1	V	22.54		
					H	22.60		
				E2	V	22.48		
					H	22.42		
	Highest	15	0	H	V	22.69	30.00	Pass
					H	22.77		
				E1	V	22.88		
					H	22.85		
				E2	V	22.57		
					H	22.71		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (5MHz) QPSK	Lowest	25	0	H	V	22.42	30.00	Pass
					H	22.24		
				E1	V	22.34		
					H	22.17		
				E2	V	22.35		
					H	22.38		
	Middle	25	0	H	V	22.45	30.00	Pass
					H	22.05		
				E1	V	22.29		
					H	22.18		
				E2	V	22.28		
					H	22.29		
	Highest	25	0	H	V	22.01	30.00	Pass
					H	22.39		
				E1	V	22.24		
					H	22.10		
				E2	V	22.28		
					H	22.25		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (10MHz) QPSK	Lowest	50	0	H	V	21.98	30.00	Pass
					H	21.89		
				E1	V	21.60		
					H	21.68		
				E2	V	22.05		
					H	22.01		
	Middle	50	0	H	V	22.06	30.00	Pass
					H	21.80		
				E1	V	21.61		
					H	21.77		
				E2	V	21.95		
					H	21.71		
	Highest	50	0	H	V	22.00	30.00	Pass
					H	21.95		
				E1	V	22.05		
					H	21.73		
				E2	V	21.79		
					H	21.66		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (15MHz) QPSK	Lowest	75	0	H	V	21.27	30.00	Pass
					H	21.51		
				E1	V	21.60		
					H	21.53		
				E2	V	21.64		
					H	21.45		
	Middle	75	0	H	V	21.36	30.00	Pass
					H	21.55		
				E1	V	21.63		
					H	21.26		
				E2	V	21.58		
					H	21.39		
	Highest	75	0	H	V	21.24	30.00	Pass
					H	21.27		
				E1	V	21.45		
					H	21.49		
				E2	V	21.33		
					H	21.42		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (20MHz) QPSK	Lowest	100	0	H	V	20.80	30.00	Pass
					H	21.23		
				E1	V	21.20		
					H	21.24		
				E2	V	20.92		
					H	21.03		
	Middle	100	0	H	V	21.19	30.00	Pass
					H	20.82		
				E1	V	21.14		
					H	21.14		
				E2	V	20.81		
					H	20.83		
	Highest	100	0	H	V	21.04	30.00	Pass
					H	21.09		
				E1	V	21.18		
					H	20.98		
				E2	V	21.01		
					H	21.15		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (1.4MHz) 16 QAM	Lowest	6	0	H	V	23.13	30.00	Pass
					H	23.02		
				E1	V	23.00		
					H	23.31		
				E2	V	23.35		
					H	23.12		
	Middle	6	0	H	V	23.35	30.00	Pass
					H	23.04		
				E1	V	23.15		
					H	23.16		
				E2	V	23.11		
					H	22.91		
	Highest	6	0	H	V	23.31	30.00	Pass
					H	23.29		
				E1	V	23.27		
					H	23.18		
				E2	V	23.08		
					H	23.06		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (3MHz) 16 QAM	Lowest	15	0	H	V	22.87	30.00	Pass
					H	22.42		
				E1	V	22.50		
					H	22.70		
				E2	V	22.70		
					H	22.42		
	Middle	15	0	H	V	22.67	30.00	Pass
					H	22.68		
				E1	V	22.66		
					H	22.45		
				E2	V	22.56		
					H	22.82		
	Highest	15	0	H	V	22.63	30.00	Pass
					H	22.51		
				E1	V	22.46		
					H	22.45		
				E2	V	22.51		
					H	22.71		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (5MHz) 16 QAM	Lowest	25	0	H	V	22.14	30.00	Pass
					H	22.14		
				E1	V	22.05		
					H	22.45		
				E2	V	22.11		
					H	22.50		
	Middle	25	0	H	V	22.29	30.00	Pass
					H	22.39		
				E1	V	22.33		
					H	22.09		
				E2	V	22.45		
					H	22.29		
	Highest	25	0	H	V	22.23	30.00	Pass
					H	22.04		
				E1	V	22.15		
					H	22.48		
				E2	V	22.13		
					H	22.36		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (10MHz) 16 QAM	Lowest	50	0	H	V	21.68	30.00	Pass
					H	21.92		
				E1	V	21.86		
					H	22.08		
				E2	V	22.09		
					H	22.01		
	Middle	50	0	H	V	21.76	30.00	Pass
					H	21.92		
				E1	V	21.71		
					H	22.07		
				E2	V	21.79		
					H	21.77		
	Highest	50	0	H	V	21.71	30.00	Pass
					H	21.62		
				E1	V	21.62		
					H	21.79		
				E2	V	21.88		
					H	22.03		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (15MHz) 16 QAM	Lowest	75	0	H	V	21.36	30.00	Pass
					H	21.37		
				E1	V	21.20		
					H	21.52		
				E2	V	21.44		
					H	21.44		
	Middle	75	0	H	V	21.53	30.00	Pass
					H	21.56		
				E1	V	21.61		
					H	21.50		
				E2	V	21.32		
					H	21.35		
	Highest	75	0	H	V	21.47	30.00	Pass
					H	21.39		
				E1	V	21.31		
					H	21.37		
				E2	V	21.47		
					H	21.31		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 4 (20MHz) 16 QAM	Lowest	100	0	H	V	21.00	30.00	Pass
					H	21.03		
				E1	V	20.99		
					H	20.82		
				E2	V	21.01		
					H	21.14		
	Middle	100	0	H	V	21.04	30.00	Pass
					H	21.12		
				E1	V	21.11		
					H	20.93		
				E2	V	20.92		
					H	20.88		
	Highest	100	0	H	V	21.00	30.00	Pass
					H	20.97		
				E1	V	21.05		
					H	21.01		
				E2	V	20.82		
					H	21.26		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (1.4MHz) QPSK	Lowest	6	0	H	V	23.40	38.45	Pass
					H	23.66		
				E1	V	23.66		
					H	23.37		
				E2	V	23.38		
					H	23.63		
	Middle	6	0	H	V	23.54	38.45	Pass
					H	23.64		
				E1	V	23.48		
					H	23.20		
				E2	V	23.34		
					H	23.60		
	Highest	6	0	H	V	23.52	38.45	Pass
					H	23.34		
				E1	V	23.26		
					H	23.46		
				E2	V	23.61		
					H	23.37		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (3MHz) QPSK	Lowest	15	0	H	V	22.75	38.45	Pass
					H	23.14		
				E1	V	23.09		
					H	22.77		
				E2	V	22.80		
					H	22.93		
	Middle	15	0	H	V	23.14	38.45	Pass
					H	22.88		
				E1	V	22.79		
					H	22.83		
				E2	V	23.11		
					H	22.82		
	Highest	15	0	H	V	23.12	38.45	Pass
					H	22.85		
				E1	V	22.80		
					H	22.91		
				E2	V	22.92		
					H	22.96		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (5MHz) QPSK	Lowest	25	0	H	V	22.62	38.45	Pass
					H	22.62		
				E1	V	22.37		
					H	22.67		
				E2	V	22.54		
					H	22.46		
	Middle	25	0	H	V	22.25	38.45	Pass
					H	22.25		
				E1	V	22.41		
					H	22.53		
				E2	V	22.36		
					H	22.27		
	Highest	25	0	H	V	22.28	38.45	Pass
					H	22.33		
				E1	V	22.43		
					H	22.62		
				E2	V	22.47		
					H	22.59		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (10MHz) QPSK	Lowest	50	0	H	V	22.14	38.45	Pass
					H	21.73		
				E1	V	21.88		
					H	21.79		
				E2	V	21.96		
					H	21.77		
	Middle	50	0	H	V	21.81	38.45	Pass
					H	21.80		
				E1	V	22.10		
					H	21.81		
				E2	V	21.97		
					H	22.08		
	Highest	50	0	H	V	21.87	38.45	Pass
					H	22.15		
				E1	V	21.84		
					H	21.97		
				E2	V	21.73		
					H	21.83		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (1.4MHz) 16 QAM	Lowest	6	0	H	V	23.48	38.45	Pass
					H	23.54		
				E1	V	23.23		
					H	23.58		
				E2	V	23.46		
					H	23.56		
	Middle	6	0	H	V	23.49	38.45	Pass
					H	23.27		
				E1	V	23.48		
					H	23.53		
				E2	V	23.50		
					H	23.28		
	Highest	6	0	H	V	23.25	38.45	Pass
					H	23.35		
				E1	V	23.37		
					H	23.68		
				E2	V	23.61		
					H	23.26		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (3MHz) 16 QAM	Lowest	15	0	H	V	22.77	38.45	Pass
					H	22.87		
				E1	V	22.72		
					H	22.84		
				E2	V	22.75		
					H	23.01		
	Middle	15	0	H	V	22.88	38.45	Pass
					H	22.85		
				E1	V	22.99		
					H	22.89		
				E2	V	22.81		
					H	23.19		
	Highest	15	0	H	V	22.94	38.45	Pass
					H	22.70		
				E1	V	22.72		
					H	23.01		
				E2	V	22.77		
					H	23.10		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (5MHz) 16 QAM	Lowest	25	0	H	V	22.49	38.45	Pass
					H	22.27		
				E1	V	22.63		
					H	22.50		
				E2	V	22.51		
					H	22.63		
	Middle	25	0	H	V	22.69	38.45	Pass
					H	22.33		
				E1	V	22.26		
					H	22.69		
				E2	V	22.29		
					H	22.38		
	Highest	25	0	H	V	22.25	38.45	Pass
					H	22.54		
				E1	V	22.50		
					H	22.60		
				E2	V	22.21		
					H	22.57		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 5 (10MHz) 16 QAM	Lowest	50	0	H	V	21.85	38.45	Pass
					H	21.90		
				E1	V	21.89		
					H	21.75		
				E2	V	22.15		
					H	21.72		
	Middle	50	0	H	V	22.13	38.45	Pass
					H	21.95		
				E1	V	21.82		
					H	22.02		
				E2	V	21.91		
					H	22.10		
	Highest	50	0	H	V	21.72	38.45	Pass
					H	21.96		
				E1	V	21.88		
					H	22.17		
				E2	V	22.18		
					H	21.74		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (5MHz) QPSK	Lowest	25	0	H	V	23.06	33.00	Pass
					H	23.46		
				E1	V	23.34		
					H	23.14		
				E2	V	23.45		
					H	23.43		
	Middle	25	0	H	V	23.10	33.00	Pass
					H	23.23		
				E1	V	23.24		
					H	23.29		
				E2	V	23.08		
					H	23.32		
	Highest	25	0	H	V	23.21	33.00	Pass
					H	23.25		
				E1	V	23.18		
					H	23.30		
				E2	V	23.26		
					H	23.12		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (10MHz) QPSK	Lowest	50	0	H	V	22.24	33.00	Pass
					H	22.21		
				E1	V	22.41		
					H	22.62		
				E2	V	22.30		
					H	22.64		
	Middle	50	0	H	V	22.24	33.00	Pass
					H	22.35		
				E1	V	22.32		
					H	22.34		
				E2	V	22.26		
					H	22.34		
	Highest	50	0	H	V	22.39	33.00	Pass
					H	22.43		
				E1	V	22.54		
					H	22.31		
				E2	V	22.23		
					H	22.46		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (15MHz) QPSK	Lowest	75	0	H	V	22.26	33.00	Pass
					H	22.03		
				E1	V	22.07		
					H	22.33		
				E2	V	22.35		
					H	22.18		
	Middle	75	0	H	V	22.37	33.00	Pass
					H	22.06		
				E1	V	22.28		
					H	22.14		
				E2	V	22.06		
					H	21.92		
	Highest	75	0	H	V	22.09	33.00	Pass
					H	21.96		
				E1	V	22.04		
					H	22.31		
				E2	V	21.99		
					H	22.04		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (20MHz) QPSK	Lowest	100	0	H	V	21.72	33.00	Pass
					H	21.81		
				E1	V	21.84		
					H	21.53		
				E2	V	21.88		
					H	21.89		
	Middle	100	0	H	V	21.50	33.00	Pass
					H	21.54		
				E1	V	21.72		
					H	21.87		
				E2	V	21.77		
					H	21.74		
	Highest	100	0	H	V	21.69	33.00	Pass
					H	21.85		
				E1	V	21.90		
					H	21.78		
				E2	V	21.72		
					H	21.79		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (5MHz) 16 QAM	Lowest	25	0	H	V	23.46	33.00	Pass
					H	23.17		
				E1	V	23.26		
					H	23.08		
				E2	V	23.11		
					H	23.22		
	Middle	25	0	H	V	23.08	33.00	Pass
					H	23.33		
				E1	V	23.14		
					H	23.20		
				E2	V	23.12		
					H	23.18		
	Highest	25	0	H	V	23.26	33.00	Pass
					H	23.31		
				E1	V	23.23		
					H	23.34		
				E2	V	23.46		
					H	23.33		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (10MHz) 16 QAM	Lowest	50	0	H	V	22.71	33.00	Pass
					H	22.78		
				E1	V	22.72		
					H	22.70		
				E2	V	22.75		
					H	22.71		
	Middle	50	0	H	V	22.87	33.00	Pass
					H	22.58		
				E1	V	22.61		
					H	22.93		
				E2	V	22.55		
					H	22.87		
	Highest	50	0	H	V	22.97	33.00	Pass
					H	22.51		
				E1	V	22.69		
					H	22.66		
				E2	V	22.84		
					H	22.71		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (15MHz) 16 QAM	Lowest	75	0	H	V	22.23	33.00	Pass
					H	22.50		
				E1	V	22.24		
					H	22.14		
				E2	V	22.47		
					H	22.18		
	Middle	75	0	H	V	22.16	33.00	Pass
					H	22.31		
				E1	V	22.32		
					H	22.06		
				E2	V	22.22		
					H	22.13		
	Highest	75	0	H	V	22.35	33.00	Pass
					H	22.13		
				E1	V	22.13		
					H	22.40		
				E2	V	22.28		
					H	22.49		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 7 (20MHz) 16 QAM	Lowest	100	0	H	V	21.55	33.00	Pass
					H	21.47		
				E1	V	21.32		
					H	21.72		
				E2	V	21.43		
					H	21.30		
	Middle	100	0	H	V	21.40	33.00	Pass
					H	21.40		
				E1	V	21.30		
					H	21.74		
				E2	V	21.62		
					H	21.43		
	Highest	100	0	H	V	21.54	33.00	Pass
					H	21.52		
				E1	V	21.43		
					H	21.76		
				E2	V	21.39		
					H	21.31		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (1.4MHz) QPSK	Lowest	6	0	H	V	23.28	33.00	Pass
					H	23.39		
				E1	V	23.22		
					H	23.33		
				E2	V	23.65		
					H	23.44		
	Middle	6	0	H	V	23.46	33.00	Pass
					H	23.20		
				E1	V	23.26		
					H	23.44		
				E2	V	23.21		
					H	23.30		
	Highest	6	0	H	V	23.28	33.00	Pass
					H	23.35		
				E1	V	23.29		
					H	23.38		
				E2	V	23.61		
					H	23.32		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (3MHz) QPSK	Lowest	15	0	H	V	22.74	33.00	Pass
					H	23.09		
				E1	V	23.00		
					H	22.85		
				E2	V	22.88		
					H	22.90		
	Middle	15	0	H	V	22.89	33.00	Pass
					H	22.81		
				E1	V	23.16		
					H	22.86		
				E2	V	22.78		
					H	22.92		
	Highest	15	0	H	V	22.96	33.00	Pass
					H	22.88		
				E1	V	22.71		
					H	23.08		
				E2	V	22.88		
					H	22.97		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (5MHz) QPSK	Lowest	25	0	H	V	22.44	33.00	Pass
					H	22.28		
				E1	V	22.57		
					H	22.44		
				E2	V	22.39		
					H	22.51		
	Middle	25	0	H	V	22.57	33.00	Pass
					H	22.56		
				E1	V	22.21		
					H	22.63		
				E2	V	22.31		
					H	22.33		
	Highest	25	0	H	V	22.36	33.00	Pass
					H	22.69		
				E1	V	22.58		
					H	22.65		
				E2	V	22.70		
					H	22.29		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (10MHz) QPSK	Lowest	50	0	H	V	22.16	33.00	Pass
					H	22.18		
				E1	V	21.93		
					H	21.91		
				E2	V	22.04		
					H	21.78		
	Middle	50	0	H	V	21.70	33.00	Pass
					H	21.72		
				E1	V	22.15		
					H	21.83		
				E2	V	21.95		
					H	21.75		
	Highest	50	0	H	V	21.85	33.00	Pass
					H	21.92		
				E1	V	22.03		
					H	21.84		
				E2	V	21.83		
					H	21.90		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (1.4MHz) 16QAM	Lowest	6	0	H	V	23.66	33.00	Pass
					H	23.59		
				E1	V	23.23		
					H	23.56		
				E2	V	23.63		
					H	23.37		
	Middle	6	0	H	V	23.31	33.00	Pass
					H	23.51		
				E1	V	23.38		
					H	23.44		
				E2	V	23.32		
					H	23.32		
	Highest	6	0	H	V	23.36	33.00	Pass
					H	23.65		
				E1	V	23.55		
					H	23.47		
				E2	V	23.42		
					H	23.59		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (3MHz) 16QAM	Lowest	15	0	H	V	22.82	33.00	Pass
					H	23.01		
				E1	V	22.79		
					H	22.75		
				E2	V	22.83		
					H	23.13		
	Middle	15	0	H	V	23.08	33.00	Pass
					H	22.73		
				E1	V	23.11		
					H	22.72		
				E2	V	22.77		
					H	23.07		
	Highest	15	0	H	V	22.79	33.00	Pass
					H	23.00		
				E1	V	23.15		
					H	22.87		
				E2	V	22.91		
					H	23.19		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (5MHz) 16QAM	Lowest	25	0	H	V	22.48	33.00	Pass
					H	22.43		
				E1	V	22.50		
					H	22.35		
				E2	V	22.46		
					H	22.48		
	Middle	25	0	H	V	22.52	33.00	Pass
					H	22.44		
				E1	V	22.67		
					H	22.39		
				E2	V	22.45		
					H	22.61		
	Highest	25	0	H	V	22.45	33.00	Pass
					H	22.36		
				E1	V	22.51		
					H	22.45		
				E2	V	22.25		
					H	22.64		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (10MHz) 16QAM	Lowest	50	0	H	V	21.75	33.00	Pass
					H	22.07		
				E1	V	21.83		
					H	21.76		
				E2	V	22.01		
					H	22.16		
	Middle	50	0	H	V	21.99	33.00	Pass
					H	22.04		
				E1	V	22.07		
					H	22.06		
				E2	V	21.92		
					H	21.90		
	Highest	50	0	H	V	22.16	33.00	Pass
					H	22.08		
				E1	V	22.11		
					H	22.14		
				E2	V	21.77		
					H	22.05		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 13 (5MHz) QPSK	Lowest	25	0	H	V	22.90	34.77	Pass
					H	22.85		
				E1	V	23.16		
					H	22.81		
				E2	V	22.80		
					H	23.08		
	Middle	25	0	H	V	23.26	34.77	Pass
					H	23.04		
				E1	V	23.22		
					H	23.20		
				E2	V	23.16		
					H	22.92		
	Highest	25	0	H	V	22.92	34.77	Pass
					H	23.30		
				E1	V	23.10		
					H	22.84		
				E2	V	22.81		
					H	23.21		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 13 (10MHz) QPSK	Middle	50	0	H	V	22.28	34.77	Pass
					H	22.28		
				E1	V	22.33		
					H	22.17		
				E2	V	22.16		
					H	22.27		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 13 (5MHz) 16QAM	Lowest	25	0	H	V	23.09	34.77	Pass
					H	23.21		
				E1	V	23.24		
					H	22.93		
				E2	V	22.81		
					H	23.26		
	Middle	25	0	H	V	23.21	34.77	Pass
					H	23.14		
				E1	V	22.89		
					H	23.27		
				E2	V	23.01		
					H	23.07		
	Highest	25	0	H	V	23.03	34.77	Pass
					H	22.84		
				E1	V	22.88		
					H	22.89		
				E2	V	23.02		
					H	22.93		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 13 (10MHz) 16QAM	Middle	50	0	H	V	22.40	34.77	Pass
					H	22.20		
				E1	V	22.21		
					H	22.42		
				E2	V	22.39		
					H	22.30		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (5MHz) QPSK	Lowest	25	0	H	V	23.40	33.00	Pass
					H	23.51		
				E1	V	23.28		
					H	23.14		
				E2	V	23.50		
					H	23.36		
	Middle	25	0	H	V	23.15	33.00	Pass
					H	23.19		
				E1	V	23.51		
					H	23.15		
				E2	V	23.19		
					H	23.41		
	Highest	25	0	H	V	23.55	33.00	Pass
					H	23.55		
				E1	V	23.56		
					H	23.36		
				E2	V	23.20		
					H	23.27		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (10MHz) QPSK	Lowest	50	0	H	V	22.61	33.00	Pass
					H	23.01		
				E1	V	22.61		
					H	23.09		
				E2	V	22.90		
					H	23.03		
	Middle	50	0	H	V	22.77	33.00	Pass
					H	22.65		
				E1	V	23.08		
					H	23.07		
				E2	V	22.82		
					H	23.02		
	Highest	50	0	H	V	22.98	33.00	Pass
					H	22.92		
				E1	V	23.03		
					H	22.99		
				E2	V	22.89		
					H	22.99		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (15MHz) QPSK	Lowest	75	0	H	V	22.14	33.00	Pass
					H	22.38		
				E1	V	22.21		
					H	22.43		
				E2	V	22.14		
					H	22.56		
	Middle	75	0	H	V	22.49	33.00	Pass
					H	22.51		
				E1	V	22.16		
					H	22.50		
				E2	V	22.10		
					H	22.24		
	Highest	75	0	H	V	22.26	33.00	Pass
					H	22.14		
				E1	V	22.33		
					H	22.22		
				E2	V	22.24		
					H	22.24		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (20MHz) QPSK	Lowest	100	0	H	V	21.79	33.00	Pass
					H	21.86		
				E1	V	21.40		
					H	21.71		
				E2	V	21.45		
					H	21.73		
	Middle	100	0	H	V	21.78	33.00	Pass
					H	21.68		
				E1	V	21.48		
					H	21.47		
				E2	V	21.45		
					H	21.90		
	Highest	100	0	H	V	21.58	33.00	Pass
					H	21.78		
				E1	V	21.70		
					H	21.90		
				E2	V	21.41		
					H	21.86		

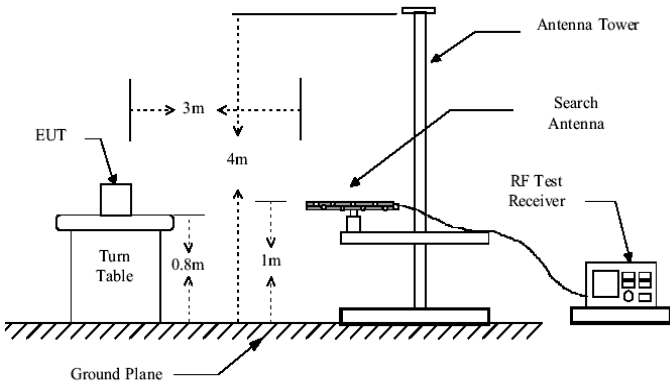
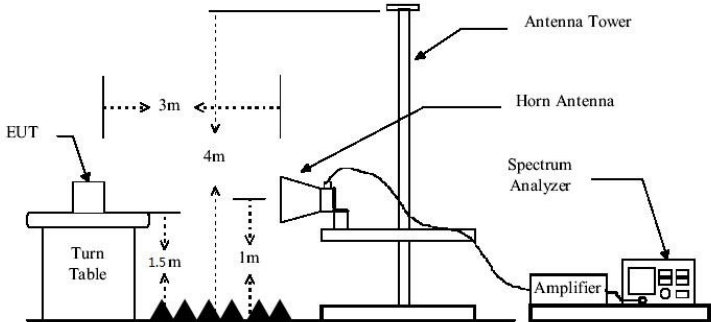
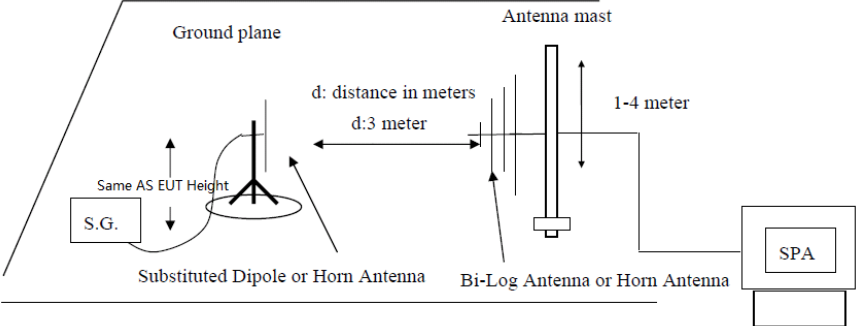
EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (5MHz) 16 QAM	Lowest	25	0	H	V	23.42	33.00	Pass
					H	23.51		
				E1	V	23.34		
					H	23.40		
				E2	V	23.37		
					H	23.36		
	Middle	25	0	H	V	23.38	33.00	Pass
					H	23.25		
				E1	V	23.39		
					H	23.57		
				E2	V	23.44		
					H	23.26		
	Highest	25	0	H	V	23.38	33.00	Pass
					H	23.44		
				E1	V	23.42		
					H	23.29		
				E2	V	23.31		
					H	23.33		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (10MHz) 16 QAM	Lowest	50	0	H	V	22.53	33.00	Pass
					H	22.52		
				E1	V	22.52		
					H	22.62		
				E2	V	22.91		
					H	22.89		
	Middle	50	0	H	V	22.93	33.00	Pass
					H	22.61		
				E1	V	22.92		
					H	22.61		
				E2	V	22.71		
					H	22.58		
	Highest	50	0	H	V	22.53	33.00	Pass
					H	22.81		
				E1	V	22.86		
					H	22.91		
				E2	V	22.82		
					H	22.95		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (15MHz) 16 QAM	Lowest	75	0	H	V	22.40	33.00	Pass
					H	22.15		
				E1	V	22.25		
					H	22.19		
				E2	V	22.39		
					H	22.46		
	Middle	75	0	H	V	22.00	33.00	Pass
					H	22.45		
				E1	V	22.00		
					H	22.03		
				E2	V	22.19		
					H	22.21		
	Highest	75	0	H	V	22.39	33.00	Pass
					H	22.22		
				E1	V	22.34		
					H	22.22		
				E2	V	22.23		
					H	22.36		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 41 (20MHz) 16 QAM	Lowest	100	0	H	V	21.56	33.00	Pass
					H	21.93		
				E1	V	21.73		
					H	21.95		
				E2	V	21.97		
					H	21.87		
	Middle	100	0	H	V	21.96	33.00	Pass
					H	21.72		
				E1	V	21.89		
					H	21.95		
				E2	V	21.74		
					H	22.00		
	Highest	100	0	H	V	21.98	33.00	Pass
					H	21.73		
				E1	V	21.76		
					H	21.91		
				E2	V	21.61		
					H	21.97		

4.9 Field strength of spurious radiation measurement

Test Requirement:	FCC part22.913(a), FCC part24.238(a) and FCC part27.53
Test Method:	ANSI C63.26:2015
Limit:	Band 2/4/5/12/17/26:-13dBm Band 7/41:-25dBm
Test setup:	Below 1GHz  Above 1GHz  Substituted method: 

Test Procedure:	1. The EUT was placed on an non-conductive turntable using a non-conductive support. The radiated emission at the fundamental frequency was measured at 3 m with a test antenna and EMI spectrum analyzer. 2. During the tests, the antenna height and the EUT azimuth were varied in order to identify the maximum level of emissions from the EUT. This maximization process was repeated with the EUT positioned in each of its three orthogonal orientations. 3. The frequency range up to tenth harmonic was investigated for each of three fundamental frequency (low, middle and high channels). Once spurious emission was identified, the power of the emission was determined using the substitution method. 4. The spurious emissions attenuation was calculated as the difference between radiated power at the fundamental frequency and the spurious emissions frequency. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$ 5. Compliance with the provisions of part 27 paragraphs (c)(3) and (c)(4) of this section is based on the use of measurement instrumentation such that the reading taken with any resolution bandwidth setting should be adjusted to indicate spectral energy in a 6.25 kHz segment.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass

Measurement Data:

QPSK Mode:

Test mode:	LTE Band 2(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3701.03	V	-38.67	-13.00	Pass
5551.84	V	-36.85		
7402.57	V	-35.40		
9253.69	V	-32.92		
11104.14	V	-31.08		
3701.34	H	-39.33	-13.00	Pass
5552.28	H	-36.65		
7403.00	H	-35.31		
9253.38	H	-32.56		
11104.22	H	-30.49		
Test mode:	LTE Band 2(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3759.65	V	-38.65	-13.00	Pass
5640.14	V	-36.97		
7520.02	V	-35.49		
9400.00	V	-32.77		
11280.01	V	-31.00		
3759.79	H	-39.04	-13.00	Pass
5639.87	H	-36.88		
7519.61	H	-35.16		
9400.07	H	-32.73		
11279.77	H	-30.51		
Test mode:	LTE Band 2(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3818.65	V	-38.48	-13.00	Pass
5727.86	V	-36.93		
7637.04	V	-35.81		
9546.38	V	-32.98		
11455.72	V	-30.96		
3818.36	H	-39.01	-13.00	Pass
5727.82	H	-36.72		
7636.96	H	-35.12		
9546.67	H	-32.99		
11456.00	H	-30.53		

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
4. All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 4(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3421.19	V	-38.60	-13.00	Pass
5131.74	V	-36.96		
6842.40	V	-35.82		
8553.59	V	-32.80		
10264.03	V	-31.13		
3421.10	H	-39.03	-13.00	Pass
5131.72	H	-36.57		
6842.49	H	-35.34		
8553.18	H	-32.71		
10264.15	H	-30.52		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3465.15	V	-38.57	-13.00	Pass
5197.65	V	-36.92		
6929.90	V	-35.38		
8662.45	V	-32.60		
10394.61	V	-31.04		
3464.77	H	-39.29	-13.00	Pass
5197.13	H	-36.61		
6929.61	H	-35.17		
8662.41	H	-32.59		
10394.68	H	-30.20		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3508.70	V	-38.79	-13.00	Pass
5262.75	V	-36.86		
7016.90	V	-35.46		
8771.40	V	-33.05		
10525.94	V	-30.75		
3508.43	H	-39.37	-13.00	Pass
5262.53	H	-36.77		
7016.87	H	-35.22		
8771.64	H	-32.68		
10525.52	H	-30.50		

Remark:

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
4. All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 5(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1649.41	V	-38.85	-13.00	Pass
2473.92	V	-36.94		
3298.41	V	-35.59		
4123.59	V	-32.74		
4948.13	V	-31.14		
1649.49	H	-39.25	-13.00	Pass
2473.97	H	-36.51		
3298.79	H	-35.58		
4123.33	H	-32.71		
4948.21	H	-30.60		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1672.84	V	-38.74	-13.00	Pass
2509.31	V	-36.97		
3345.93	V	-35.53		
4182.39	V	-32.94		
5018.88	V	-30.94		
1673.12	H	-39.40	-13.00	Pass
2509.16	H	-36.93		
3345.99	H	-35.55		
4182.32	H	-32.99		
5019.11	H	-30.19		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1696.29	V	-38.81	-13.00	Pass
2544.94	V	-36.64		
3393.34	V	-35.34		
4241.65	V	-32.74		
5089.45	V	-30.91		
1696.24	H	-39.14	-13.00	Pass
2544.95	H	-36.72		
3393.24	H	-35.59		
4241.39	H	-32.93		
5089.90	H	-30.53		

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
4. All modes have been tested, and only worst data was listed in this report.(5MHz)

Test mode:	LTE Band 7(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5004.81	V	-38.48	-25.00	Pass
7507.30	V	-37.00		
10010.15	V	-35.43		
12512.36	V	-32.65		
15014.69	V	-30.73		
5004.76	H	-38.99	-25.00	Pass
7507.12	H	-36.83		
10010.09	H	-35.34		
12512.27	H	-32.94		
15014.98	H	-30.22		
Test mode:	LTE Band 7(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5070.06	V	-38.76	-25.00	Pass
7604.90	V	-36.74		
10139.99	V	-35.50		
12674.77	V	-32.61		
15209.93	V	-31.06		
5070.10	H	-39.21	-25.00	Pass
7604.79	H	-36.63		
10139.93	H	-35.19		
12675.06	H	-32.57		
15210.13	H	-30.16		
Test mode:	LTE Band 7(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5134.81	V	-38.82	-25.00	Pass
7702.46	V	-36.96		
10269.81	V	-35.66		
12837.60	V	-32.69		
15405.01	V	-30.86		
5134.68	H	-39.36	-25.00	Pass
7702.51	H	-36.62		
10269.67	H	-35.37		
12837.17	H	-32.90		
15405.10	H	-30.62		

Remark :

1. The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
2. Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
3. The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
4. All modes have been tested, and only worst data was listed in this report.(5MHz)

Test mode:	LTE Band 12(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1399.00	V	-38.77	-13.00	Pass
2099.05	V	-36.81		
2798.77	V	-35.41		
3498.43	V	-32.69		
4198.07	V	-31.02		
1399.17	H	-39.11	-13.00	Pass
2099.16	H	-36.77		
2798.93	H	-35.51		
3498.52	H	-32.85		
4197.90	H	-30.58		
Test mode:	LTE Band 12(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1415.05	V	-38.89	-13.00	Pass
2122.14	V	-36.86		
2829.71	V	-35.59		
3537.12	V	-33.07		
4244.70	V	-31.04		
1415.19	H	-39.26	-13.00	Pass
2122.33	H	-36.94		
2829.91	H	-35.49		
3537.21	H	-32.72		
4244.65	H	-30.14		
Test mode:	LTE Band 12(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1430.59	V	-38.91	-13.00	Pass
2145.54	V	-36.79		
2860.95	V	-35.49		
3576.32	V	-33.04		
4291.56	V	-30.73		
1430.76	H	-39.18	-13.00	Pass
2146.08	H	-36.63		
2861.37	H	-35.50		
3576.22	H	-32.60		
4291.94	H	-30.21		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 13(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1559.17	V	-47.30	-40.00	Pass
768.87	V	-42.60	-35.00	Pass
802.19	V	-43.69	-35.00	Pass
5068.88	V	-38.72	-13.00	Pass
7603.97	V	-36.76		
10139.25	V	-35.82		
12674.55	V	-32.97		
15209.25	V	-30.92		
1558.96	H	-49.73	-40.00	Pass
767.00	H	-44.31	-35.00	Pass
798.03	H	-43.19	-35.00	Pass
5004.07	H	-39.41	-13.00	Pass
7506.75	H	-36.68		
10009.81	H	-35.52		
12511.71	H	-32.94		
15014.40	H	-30.26		
Test mode:	LTE Band 13(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1564.01	V	-47.44	-40.00	Pass
765.67	V	-42.57	-35.00	Pass
805.12	V	-43.70	-35.00	Pass
5068.53	V	-38.77	-13.00	Pass
7604.07	V	-37.02		
10139.39	V	-35.61		
12674.55	V	-33.02		
15209.53	V	-31.15		
1563.70	H	-49.51	-40.00	Pass
772.93	H	-44.11	-35.00	Pass
794.71	H	-42.99	-35.00	Pass
5004.36	H	-39.05	-13.00	Pass
7506.19	H	-36.66		
10010.25	H	-35.13		
12511.36	H	-32.71		
15014.06	H	-30.30		

Test mode:	LTE Band 13(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1568.92	V	-47.13	-40.00	Pass
763.06	V	-42.62	-35.00	Pass
805.13	V	-44.10	-35.00	Pass
5068.78	V	-38.91	-13.00	Pass
7604.11	V	-36.61		
10139.55	V	-35.62		
12674.61	V	-32.82		
15209.10	V	-31.13		
1568.75	H	-49.70	-40.00	Pass
767.77	H	-44.24	-35.00	Pass
793.07	H	-43.24	-35.00	Pass
5004.20	H	-39.36	-13.00	Pass
7506.31	H	-36.64		
10010.07	H	-35.24		
12511.30	H	-32.55		
15014.27	H	-30.56		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(5MHz)

Test mode:	LTE Band 41(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
4996.67	V	-38.85	-25.00	Pass
7495.20	V	-36.76		
9993.83	V	-35.49		
12492.40	V	-32.73		
14990.70	V	-31.20		
4996.98	H	-39.41	-25.00	Pass
7495.29	H	-36.81		
9993.87	H	-35.37		
12492.67	H	-32.69		
14990.92	H	-30.52		
Test mode:	LTE Band 41(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5185.99	V	-38.79	-25.00	Pass
7778.71	V	-36.95		
10372.15	V	-35.51		
12964.67	V	-32.78		
15557.63	V	-30.83		
5186.16	H	-39.35	-25.00	Pass
7778.69	H	-36.63		
10372.17	H	-35.36		
12964.67	H	-32.67		
15557.75	H	-30.45		
Test mode:	LTE Band 41(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5374.92	V	-38.61	-25.00	Pass
8062.42	V	-37.08		
10749.63	V	-35.75		
13437.54	V	-32.78		
16124.97	V	-30.99		
5375.04	H	-39.31	-25.00	Pass
8062.45	H	-36.61		
10750.13	H	-35.24		
13437.27	H	-32.76		
16124.75	H	-30.51		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(5MHz)

16 QAM Mode:

Test mode:	LTE Band 2 (1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3701.31	V	-38.56	-13.00	Pass
5551.80	V	-36.67		
7402.58	V	-35.43		
9253.13	V	-32.84		
11104.21	V	-30.77		
3701.10	H	-39.43	-13.00	Pass
5552.05	H	-36.52		
7402.80	H	-35.48		
9253.63	H	-32.59		
11104.23	H	-30.19		
Test mode:	LTE Band 2 (1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3759.96	V	-38.56	-13.00	Pass
5639.82	V	-36.63		
7519.80	V	-35.65		
9400.02	V	-32.87		
11280.05	V	-31.09		
3759.67	H	-39.17	-13.00	Pass
5639.70	H	-36.85		
7520.16	H	-35.43		
9399.64	H	-32.76		
11279.78	H	-30.17		
Test mode:	LTE Band 2 (1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3818.52	V	-38.51	-13.00	Pass
5727.55	V	-36.86		
7636.87	V	-35.37		
9546.23	V	-32.90		
11455.73	V	-30.79		
3818.77	H	-39.30	-13.00	Pass
5728.01	H	-36.53		
7636.86	H	-35.62		
9546.50	H	-32.75		
11455.41	H	-30.59		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 4(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3421.47	V	-38.68	-13.00	Pass
5132.27	V	-37.02		
6842.92	V	-35.76		
8553.37	V	-32.74		
10264.27	V	-31.00		
3421.45	H	-39.42	-13.00	Pass
5131.80	H	-36.71		
6842.60	H	-35.55		
8553.64	H	-32.79		
10264.02	H	-30.54		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3465.12	V	-38.63	-13.00	Pass
5197.24	V	-36.86		
6930.16	V	-35.76		
8662.10	V	-32.69		
10394.95	V	-30.78		
3464.72	H	-39.25	-13.00	Pass
5197.62	H	-36.91		
6930.19	H	-35.52		
8662.37	H	-32.64		
10394.79	H	-30.39		
Test mode:	LTE Band 4(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3508.68	V	-38.66	-13.00	Pass
5262.69	V	-36.68		
7016.81	V	-35.52		
8771.48	V	-32.92		
10525.55	V	-31.14		
3508.37	H	-39.06	-13.00	Pass
5262.87	H	-36.72		
7017.24	H	-35.23		
8771.23	H	-32.95		
10525.60	H	-30.44		

Remark:

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 5(1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1649.33	V	-38.55	-13.00	Pass
2473.80	V	-36.77		
3298.40	V	-35.70		
4123.14	V	-33.03		
4948.30	V	-30.76		
1649.03	H	-39.16	-13.00	Pass
2474.14	H	-36.59		
3298.77	H	-35.61		
4123.50	H	-32.80		
4948.17	H	-30.58		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1673.07	V	-38.66	-13.00	Pass
2509.54	V	-36.88		
3346.07	V	-35.41		
4182.58	V	-32.69		
5018.89	V	-31.15		
1672.77	H	-39.25	-13.00	Pass
2509.47	H	-36.48		
3345.62	H	-35.56		
4182.52	H	-32.83		
5019.00	H	-30.46		
Test mode:	LTE Band 5(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1696.64	V	-38.95	-13.00	Pass
2544.82	V	-36.82		
3393.27	V	-35.65		
4241.24	V	-32.91		
5089.46	V	-31.03		
1696.43	H	-39.14	-13.00	Pass
2545.09	H	-36.81		
3393.17	H	-35.55		
4241.10	H	-32.82		
5089.54	H	-30.21		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 7(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5004.63	V	-38.80	-25.00	Pass
7507.34	V	-36.69		
10010.06	V	-35.59		
12512.44	V	-32.91		
15014.78	V	-30.96		
5005.19	H	-39.38	-25.00	Pass
7507.21	H	-36.67		
10009.81	H	-35.56		
12512.15	H	-32.98		
15015.18	H	-30.50		
Test mode:	LTE Band 7(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5070.11	V	-38.67	-25.00	Pass
7604.69	V	-36.92		
10139.88	V	-35.66		
12674.62	V	-32.73		
15209.96	V	-30.89		
5069.66	H	-39.05	-25.00	Pass
7605.09	H	-36.76		
10140.13	H	-35.18		
12674.75	H	-32.87		
15209.68	H	-30.31		
Test mode:	LTE Band 7(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5134.65	V	-38.84	-25.00	Pass
7702.55	V	-36.63		
10269.80	V	-35.53		
12837.60	V	-32.63		
15405.10	V	-30.72		
5134.74	H	-39.20	-25.00	Pass
7702.56	H	-36.94		
10270.12	H	-35.53		
12837.50	H	-32.64		
15405.16	H	-30.19		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(5MHz)

Test mode:	LTE Band 12 (1.4MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1399.49	V	-38.60	-13.00	Pass
2099.18	V	-36.79		
2798.53	V	-35.53		
3498.69	V	-32.81		
4198.27	V	-30.81		
1399.32	H	-38.99	-13.00	Pass
2098.89	H	-36.90		
2798.75	H	-35.51		
3498.12	H	-32.71		
4198.08	H	-30.46		
Test mode:	LTE Band 12 (1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1414.67	V	-38.96	-13.00	Pass
2122.27	V	-36.97		
2829.75	V	-35.59		
3537.18	V	-32.97		
4244.90	V	-31.04		
1414.64	H	-39.16	-13.00	Pass
2122.28	H	-36.88		
2829.91	H	-35.30		
3537.63	H	-32.79		
4245.07	H	-30.41		
Test mode:	LTE Band 12 (1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1430.55	V	-38.80	-13.00	Pass
2145.64	V	-37.04		
2860.98	V	-35.80		
3576.62	V	-32.92		
4291.61	V	-31.06		
1430.49	H	-39.01	-13.00	Pass
2146.04	H	-36.96		
2861.27	H	-35.35		
3576.26	H	-32.66		
4291.64	H	-30.63		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(1.4MHz)

Test mode:	LTE Band 13(5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1559.10	V	-47.34	-40	Pass
767.65	V	-42.73	-35	Pass
796.89	V	-43.65	-35	Pass
5068.79	V	-38.81	-13.00	Pass
7604.32	V	-36.80		
10139.24	V	-35.53		
12674.73	V	-33.05		
15209.61	V	-30.90		
1559.17	H	-49.81	-40	Pass
769.12	H	-44.46	-35	Pass
797.88	H	-43.23	-35	Pass
5004.13	H	-39.40	-13.00	Pass
7506.21	H	-36.59		
10009.71	H	-35.62		
12511.21	H	-32.53		
15014.39	H	-30.44		
Test mode:	LTE Band 13(5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1563.66	V	-47.38	-40	Pass
763.98	V	-42.78	-35	Pass
795.03	V	-43.97	-35	Pass
5068.78	V	-38.58	-13.00	Pass
7604.30	V	-36.69		
10139.31	V	-35.40		
12674.93	V	-32.73		
15209.26	V	-30.75		
1564.02	H	-49.58	-40	Pass
773.81	H	-44.47	-35	Pass
804.04	H	-43.35	-35	Pass
5004.16	H	-39.12	-13.00	Pass
7506.53	H	-36.90		
10009.94	H	-35.57		
12511.52	H	-32.79		
15013.92	H	-30.60		

Test mode:	LTE Band 13(5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
1569.03	V	-46.99	-40	Pass
774.11	V	-42.74	-35	Pass
798.60	V	-43.87	-35	Pass
5068.61	V	-38.87	-13.00	Pass
7604.34	V	-36.96		
10139.21	V	-35.37		
12674.96	V	-33.02		
15209.52	V	-30.89		
1569.11	H	-49.51	-40	Pass
768.14	H	-44.53	-35	Pass
802.01	H	-43.25	-35	Pass
5004.07	H	-39.32	-13.00	Pass
7506.74	H	-36.95		
10010.10	H	-35.23		
12511.20	H	-32.79		
15014.17	H	-30.17		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(5MHz)

Test mode:	LTE Band 41 (5MHz)		Test channel:	Lowest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
4996.89	V	-38.63	-25.00	Pass
7495.40	V	-36.63		
9993.88	V	-35.33		
12492.40	V	-33.05		
14990.96	V	-30.88		
4997.20	H	-39.46	-25.00	Pass
7495.66	H	-36.67		
9993.79	H	-35.58		
12492.14	H	-32.64		
14990.73	H	-30.19		
Test mode:	LTE Band 41 (5MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5185.82	V	-38.94	-25.00	Pass
7778.76	V	-37.08		
10372.11	V	-35.33		
12964.84	V	-33.03		
15558.10	V	-30.81		
5186.12	H	-39.14	-25.00	Pass
7779.16	H	-36.73		
10371.84	H	-35.54		
12965.03	H	-32.56		
15558.14	H	-30.26		
Test mode:	LTE Band 41 (5MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
5375.04	V	-38.79	-25.00	Pass
8062.62	V	-36.71		
10750.18	V	-35.43		
13437.36	V	-32.63		
16124.77	V	-30.77		
5374.77	H	-39.44	-25.00	Pass
8062.58	H	-36.70		
10749.99	H	-35.13		
13437.60	H	-32.74		
16125.07	H	-30.23		

Remark :

- 1 The emission behaviour belongs to narrowband spurious emission, all modes investigated and only worst case is reported.
- 2 Remark"---" means that the emission level is too low (20dB lower than the limit) to be measured
- 3 The emission levels of below 1 GHz are very lower (20dB lower than the limit) than the limit and not show in test report.
- 4 All modes have been tested, and only worst data was listed in this report.(5MHz)

4.10 Frequency stability V.S. Temperature measurement

Test Requirement:	FCC Part2.1055(a)(1)(b)
Test Method:	ANSI C63.26:2015
Limit:	2.5ppm(Part 22) Within the authorized bands of operation(Part 24, Part 27)
Test setup:	Note : Measurement setup for testing on Antenna connector
Test procedure:	1. The equipment under test was connected to an external DC power supply and input rated voltage. 2. RF output was connected to a frequency counter or spectrum analyzer via feed through attenuators. 3. The EUT was placed inside the temperature chamber. 4. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and measure EUT 25°C operating frequency as reference frequency. 5. Turn EUT off and set the chamber temperature to –20°C. After the temperature stabilized for approximately 30 minutes recorded the frequency. 6. Repeat step measure with 10°C increased per stage until the highest temperature of +50°C reached.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass
Remark:	If all frequencies stability are comply with the lower limit, then all results can be considered qualified

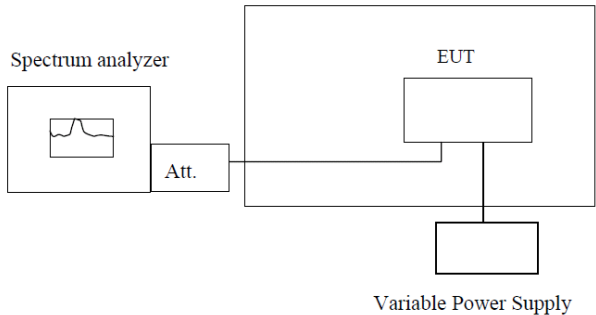
Measurement Data

Reference Frequency: LTE Band 2 Middle channel=18900 channel=1880MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	12	0.0064	Within the authorized bands	Pass
	-10	25	0.0133		
	0	23	0.0122		
	10	-35	-0.0186		
	20	17	0.0090		
	30	9	0.0048		
	40	-13	-0.0069		
	50	5	0.0027		
	60	10	0.0053		
Reference Frequency: LTE Band 4 Middle channel=20175 channel=1732.5MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	15	0.0087	2.5	Pass
	-10	18	0.0104		
	0	23	0.0133		
	10	-35	-0.0202		
	20	16	0.0092		
	30	14	0.0081		
	40	-13	-0.0075		
	50	3	0.0017		
	60	11	0.0063		
Reference Frequency: LTE Band 5 Middle channel=20175 channel=836.5MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	19	0.0227	2.5	Pass
	-10	22	0.0263		
	0	22	0.0263		
	10	-31	-0.0371		
	20	16	0.0191		
	30	12	0.0143		
	40	-11	-0.0132		
	50	6	0.0072		
	60	11	0.0132		

Reference Frequency: LTE Band 7 Middle channel=21100 channel=2535MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	14	0.0055	Within the authorized bands	Pass
	-10	20	0.0079		
	0	18	0.0071		
	10	-36	-0.0142		
	20	18	0.0071		
	30	14	0.0055		
	40	-11	-0.0043		
	50	-1	-0.0004		
	60	12	0.0047		
Reference Frequency: LTE Band 12 Middle channel=23095 channel=707.5MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	14	0.0198	2.5	Pass
	-10	23	0.0325		
	0	18	0.0254		
	10	-36	-0.0509		
	20	17	0.0240		
	30	10	0.0141		
	40	-9	-0.0127		
	50	3	0.0042		
	60	14	0.0198		
Reference Frequency: LTE Band 13 Middle channel=23230 channel=782MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	17	0.0217	Within the authorized bands	24
	-10	18	0.0230		
	0	24	0.0307		
	10	-33	-0.0422		
	20	19	0.0243		
	30	14	0.0179		
	40	-7	-0.0090		
	50	3	0.0038		
	60	14	0.0179		

Reference Frequency: LTE Band 41 Middle channel=40620 channel=2593MHz					
Power supplied (Vdc)	Temperature (°C)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
24	-20	12	0.0046	Within the authorized bands	Pass
	-10	22	0.0085		
	0	19	0.0073		
	10	-31	-0.0120		
	20	19	0.0073		
	30	9	0.0035		
	40	-13	-0.0050		
	50	3	0.0012		
	60	11	0.0042		

4.11 Frequency stability V.S. Voltage measurement

Test Requirement:	FCC Part2.1055(d)(1)(2)
Test Method:	ANSI C63.26:2015
Limit:	2.5ppm Band II & Band VII should be within authorized band.
Test setup:	Temperature Chamber  Variable Power Supply Note : Measurement setup for testing on Antenna connector
Test procedure:	1. Set chamber temperature to 20°C. Use a variable DC power source to power the EUT and set the voltage to rated voltage. 2. Set the spectrum analyzer RBW low enough to obtain the desired frequency resolution and recorded the frequency. 3. Reduce the input voltage to specified extreme voltage variation (+/- 15%) and endpoint, record the maximum frequency change.
Test Instruments:	Refer to section 3 for details
Test mode:	Refer to section 4.1 for details
Test results:	Pass
Remark:	1. Manufacturer specified the battery operating end point voltage is 3.6VDC, max voltage is 4.2VDC. 2. If all frequencies stability are comply with the lower limit, then all results can be considered qualified

Measurement Data

Reference Frequency: LTE Band 2 Middle channel=18900 channel=1880MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	17	0.0090	within authorized band	Pass
	24	21	0.0112		
	36	23	0.0122		
Reference Frequency: LTE Band 4 Middle channel=20175 channel=1732.5MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	12	0.0069	2.5	Pass
	24	24	0.0139		
	36	22	0.0127		
Reference Frequency: LTE Band 5 Middle channel=20175 channel=836.5MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	18	0.0215	2.5	Pass
	24	23	0.0275		
	36	24	0.0287		
Reference Frequency: LTE Band 7 Middle channel=21100 channel=2535MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	13	0.0051	within authorized band	Pass
	24	22	0.0087		
	36	22	0.0087		

Reference Frequency: LTE Band 12 Middle channel=23095 channel=707.5MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	18	0.0254	within authorized band	Pass
	24	22	0.0311		
	36	24	0.0339		
Reference Frequency: LTE Band 13 Middle channel=23230 channel=782MHz					
Temperature (°C)	Temperature (°C)	Temperature (°C)		Temperature (°C)	Temperature (°C)
		Hz	ppm		
25	9	14	0.0179	within authorized band	Pass
	24	24	0.0307		
	36	23	0.0294		
Reference Frequency: LTE Band 41 Middle channel=40620 channel=2593MHz					
Temperature (°C)	Power supplied (Vdc)	Frequency error		Limit (ppm)	Result
		Hz	ppm		
25	9	12	0.0046	2.5	Pass
	24	24	0.0093		
	36	23	0.0089		

4.12 Test Setup Photo

Radiated Emission



-----END OF REPORT-----