

Test Mode: LTE Band 5 / 3MHz / 15RB / 16-QAM



Lowest channel



Highest channel

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

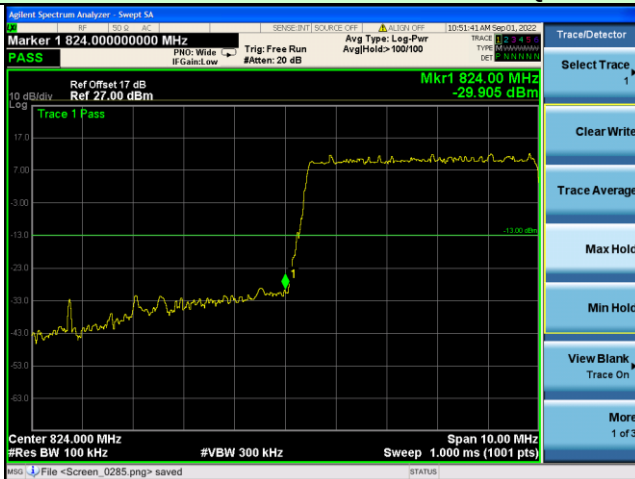


Lowest channel



Highest channel

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



Lowest channel

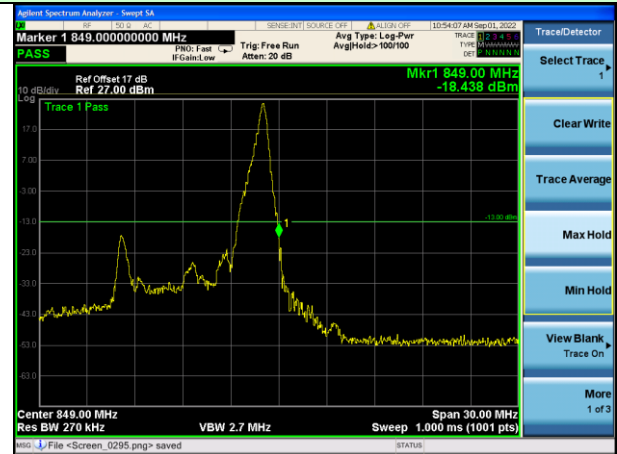


Highest channel

Test Mode: LTE Band 5 / 10MHz / 1RB / 16-QAM

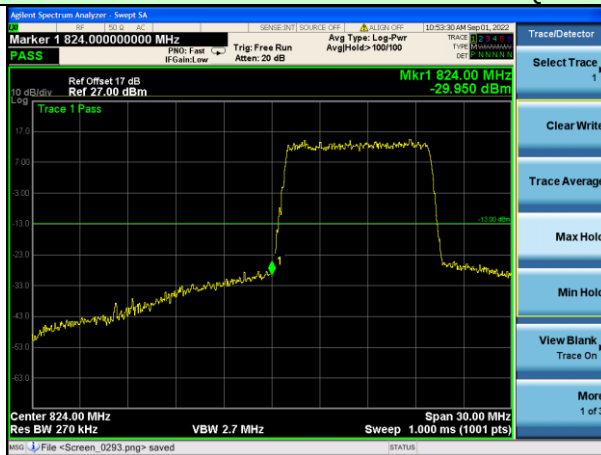


Lowest channel

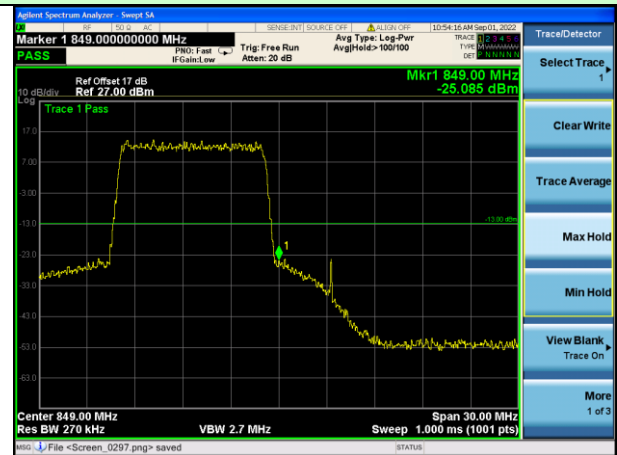


Highest channel

Test Mode: LTE Band 5 / 10MHz / 50RB / 16-QAM

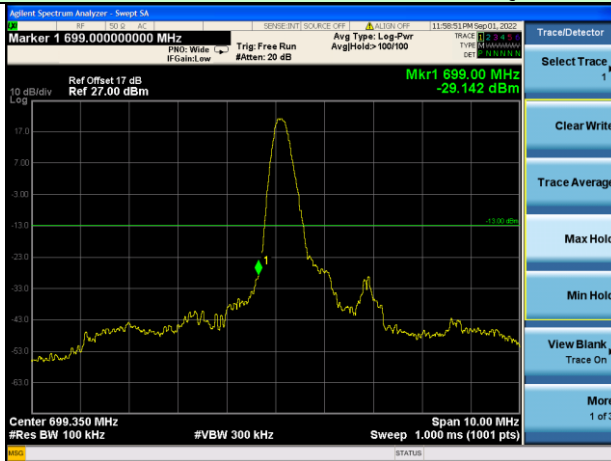


Lowest channel

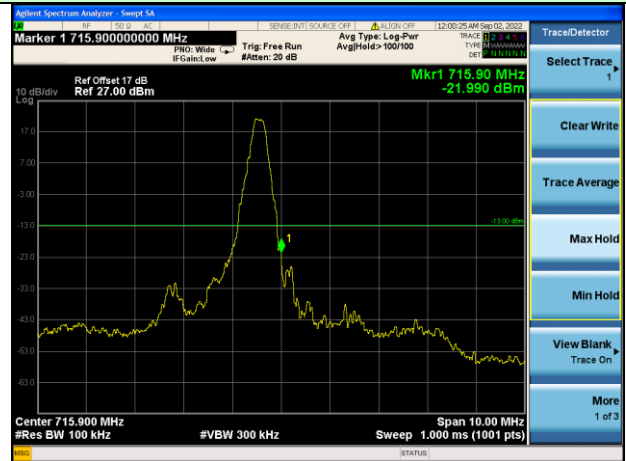


Highest channel

Test Mode: LTE Band 12 / 1.4MHz / 1RB / QPSK

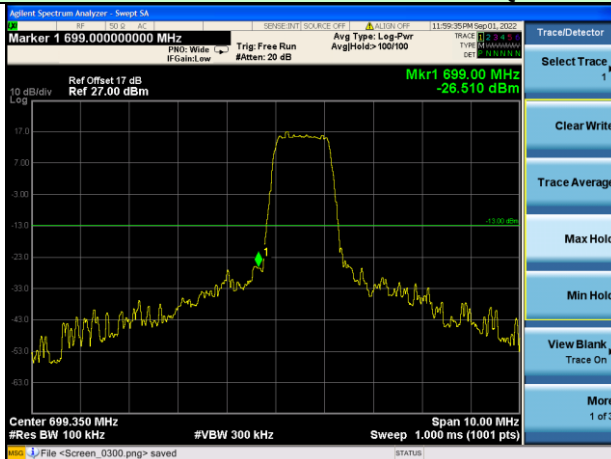


Lowest channel

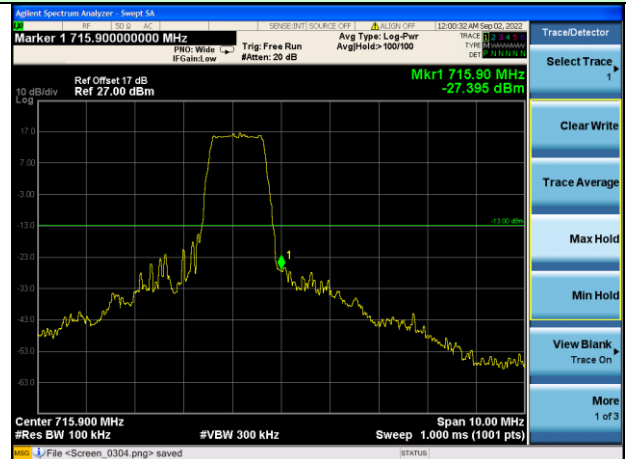


Highest channel

Test Mode: LTE Band 12 / 1.4MHz / 6RB / QPSK

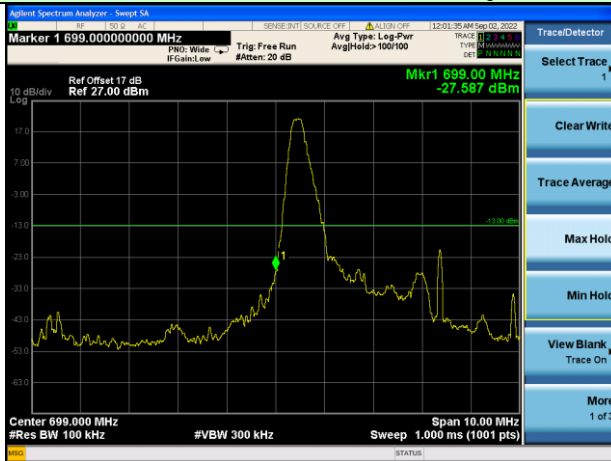


Lowest channel

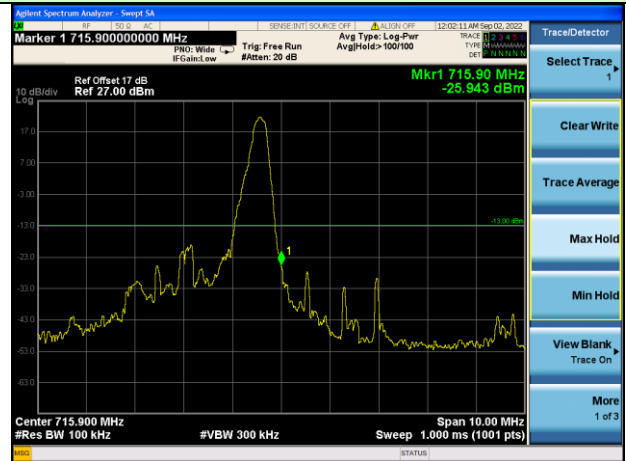


Highest channel

Test Mode: LTE Band 12 / 3MHz / 1RB / QPSK

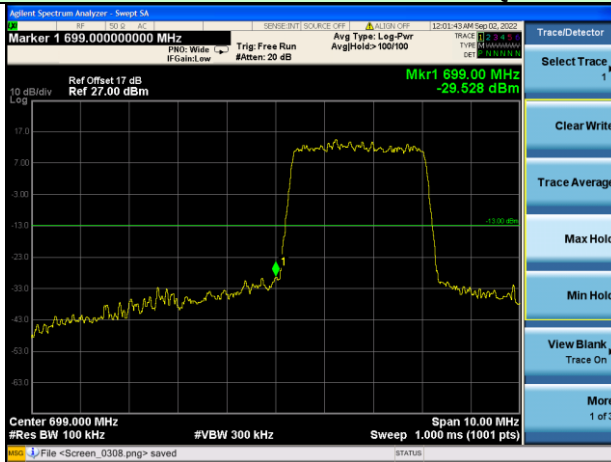


Lowest channel

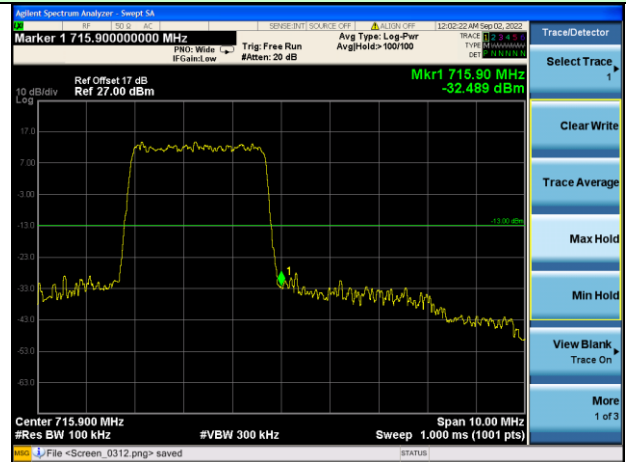


Highest channel

Test Mode: LTE Band 12 / 3MHz / 15RB / QPSK



Lowest channel

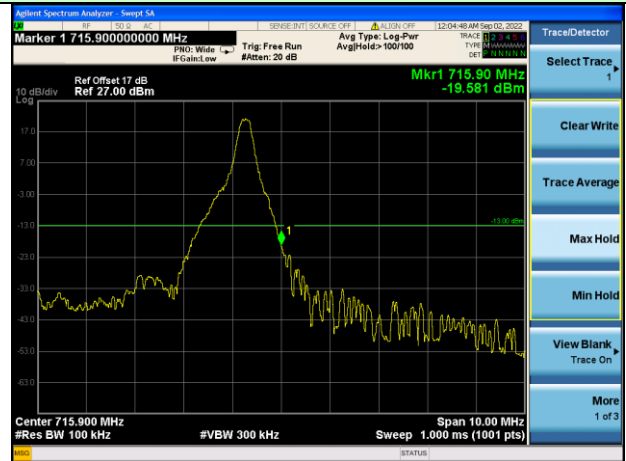


Highest channel

Test Mode: LTE Band 12 / 5MHz / 1RB / QPSK

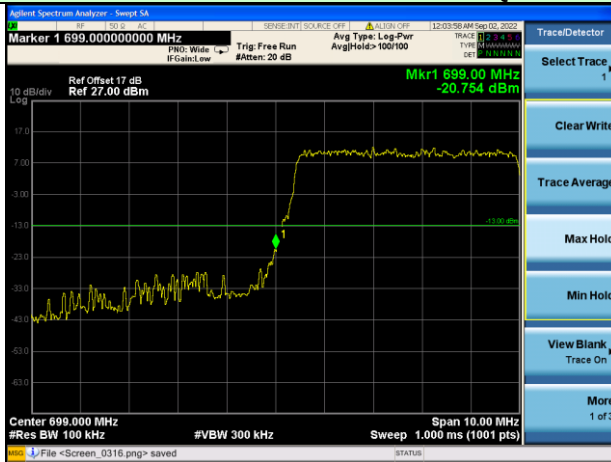


Lowest channel



Highest channel

Test Mode: LTE Band 12 / 5MHz / 25RB / QPSK

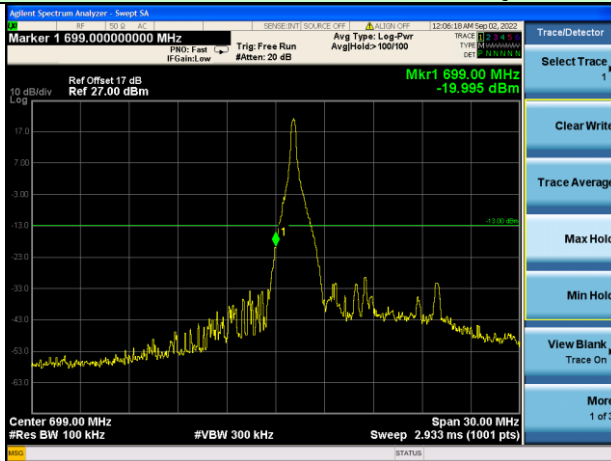


Lowest channel

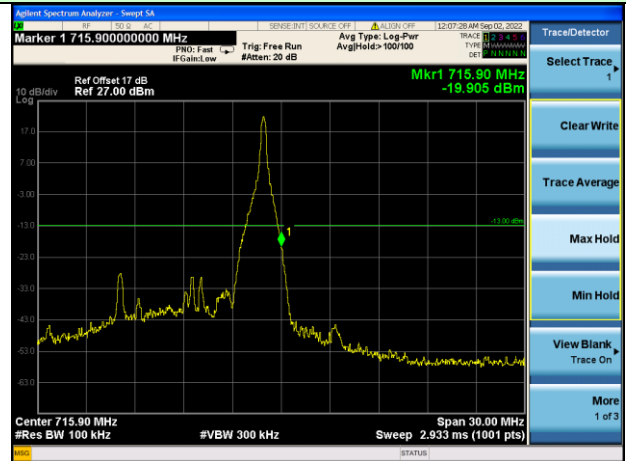


Highest channel

Test Mode: LTE Band 12 / 10MHz / 1 RB / QPSK

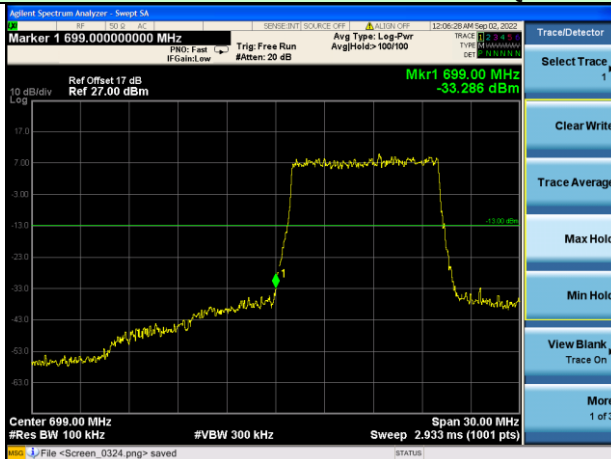


Lowest channel

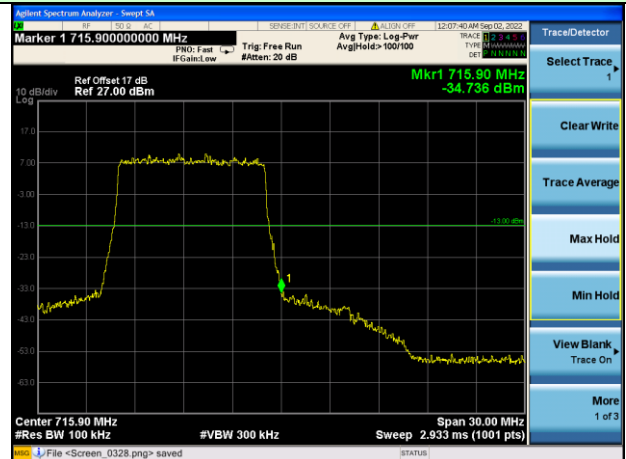


Highest channel

Test Mode: LTE Band 12 / 10MHz / 50RB / QPSK

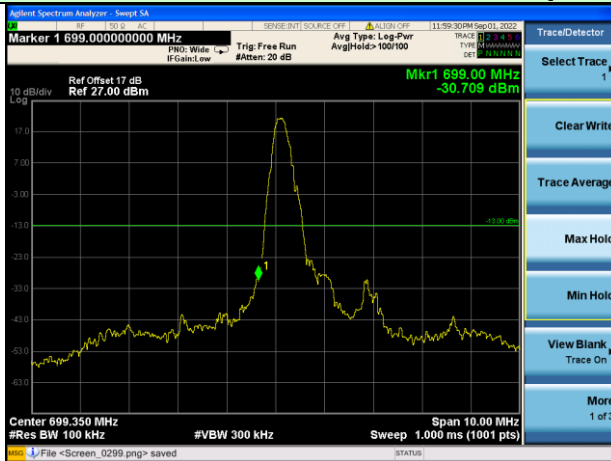


Lowest channel

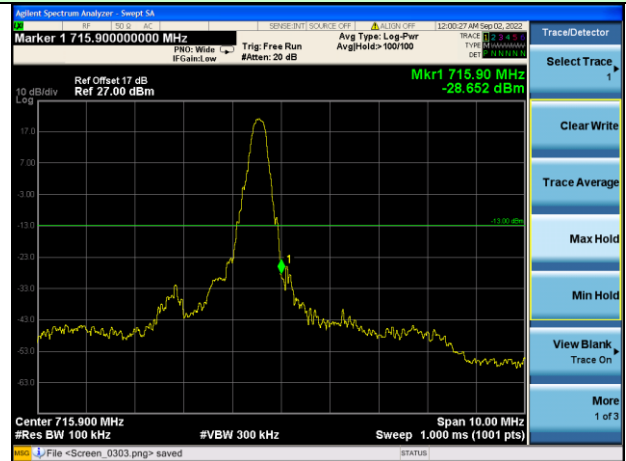


Highest channel

Test Mode: LTE Band 12 / 1.4MHz / 1RB / 16-QAM

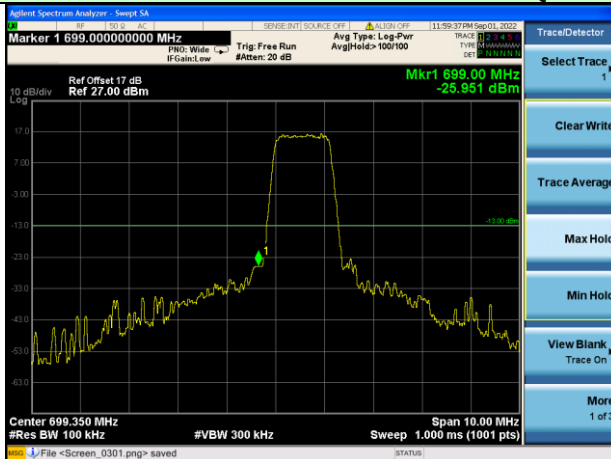


Lowest channel

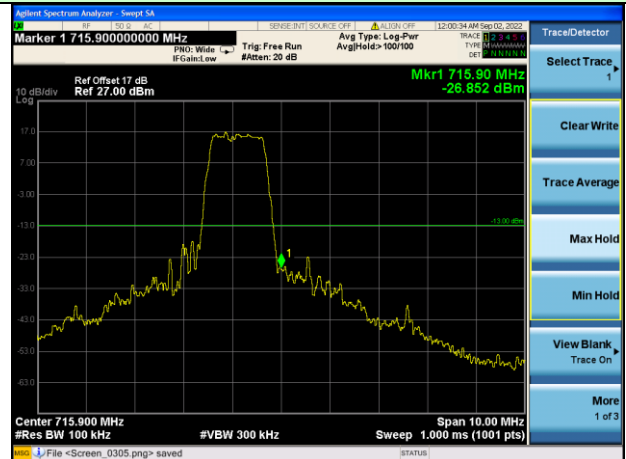


Highest channel

Test Mode: LTE Band 12 / 1.4MHz / 6RB / 16-QAM

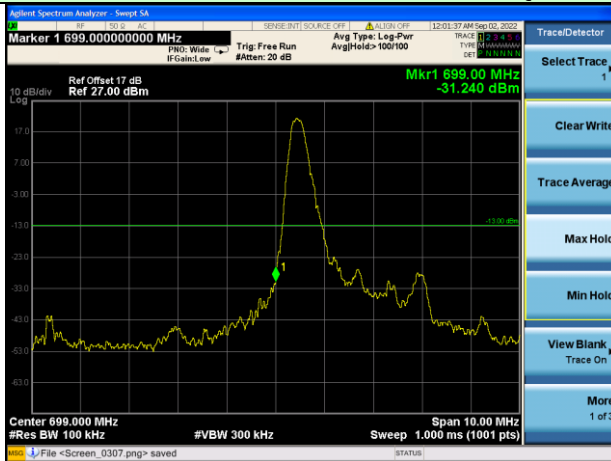


Lowest channel

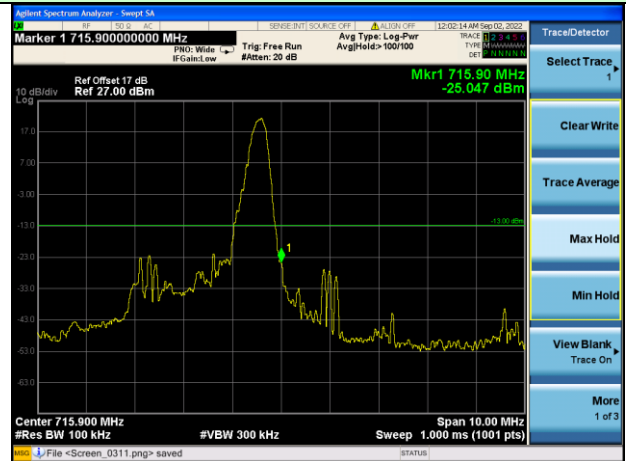


Highest channel

Test Mode: LTE Band 12 / 3MHz / 1RB / 16-QAM

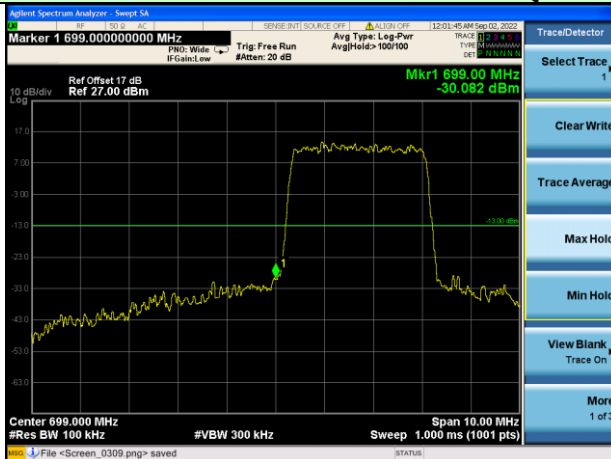


Lowest channel

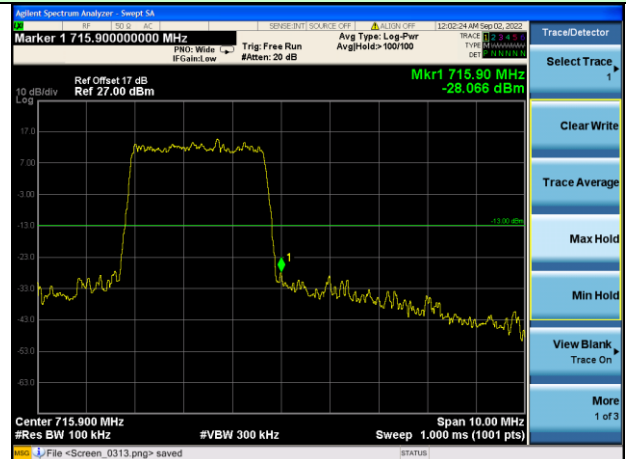


Highest channel

Test Mode: LTE Band 12 / 3MHz / 15RB / 16-QAM



Lowest channel



Highest channel

Test Mode: LTE Band 12 / 5MHz / 1 RB / 16-QAM

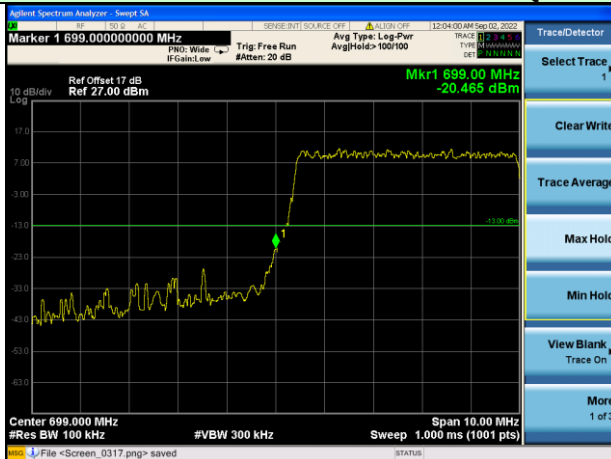


Lowest channel

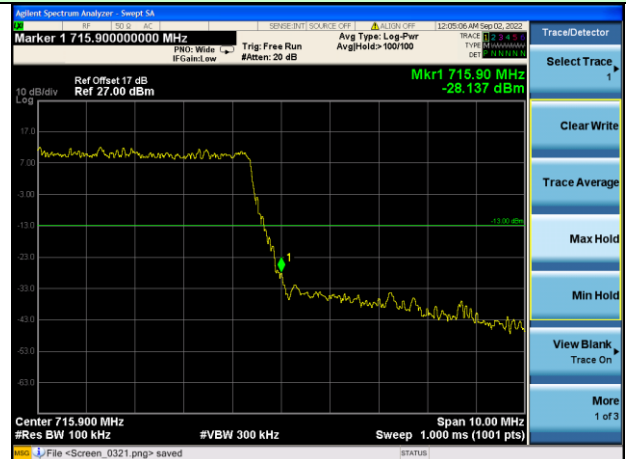


Highest channel

Test Mode: LTE Band 12 / 5MHz / 25RB / 16-QAM

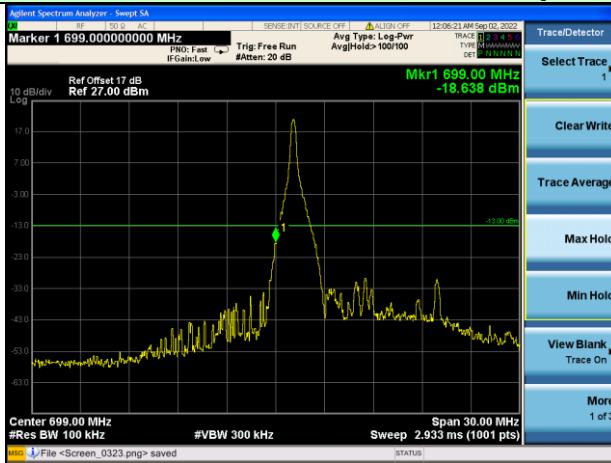


Lowest channel

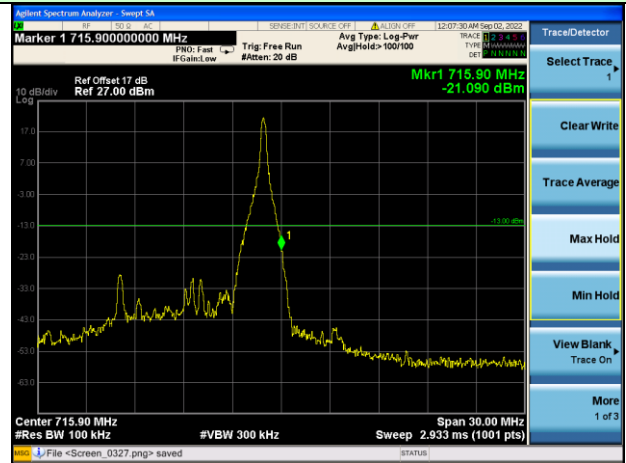


Highest channel

Test Mode: LTE Band 12 / 10MHz / 1RB / 16-QAM

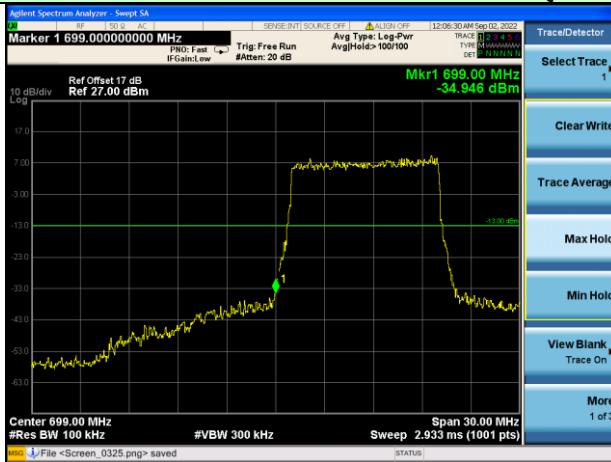


Lowest channel

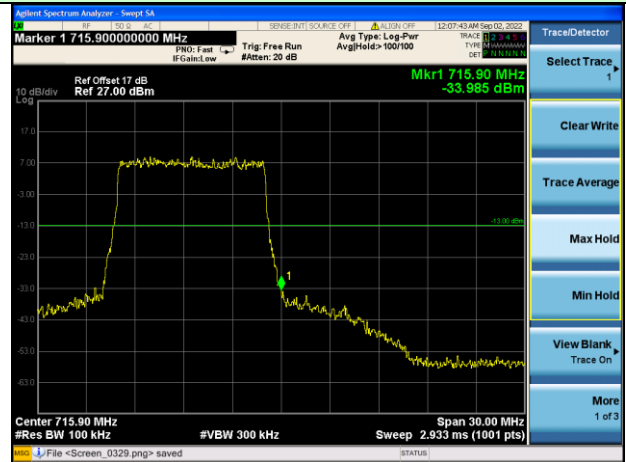


Highest channel

Test Mode: LTE Band 12 / 10MHz / 50RB / 16-QAM



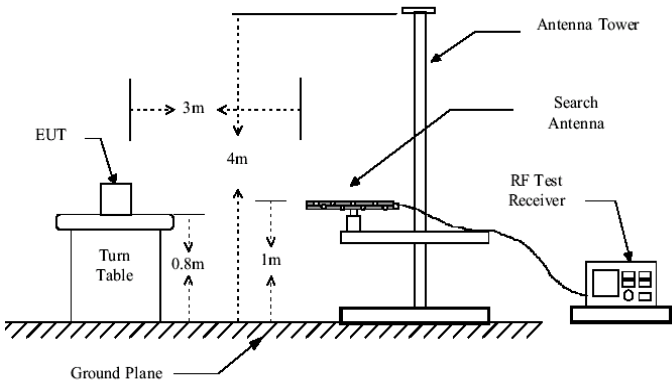
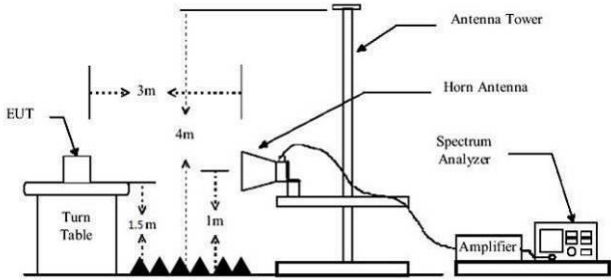
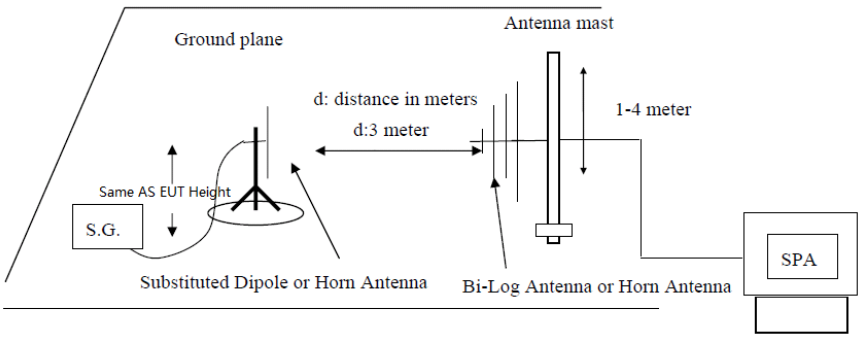
Lowest channel



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 12 2W (ERP)
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	23.78	33.00	Pass
					H	22.05		
				E1	V	22.99		
					H	23.63		
				E2	V	23.70		
					H	19.93		
	6	0	Middle	H	V	24.13	33.00	Pass
					H	21.84		
				E1	V	22.38		
					H	21.16		
				E2	V	22.47		
					H	23.45		
	6	0	Highest	H	V	20.93	33.00	Pass
					H	23.86		
				E1	V	23.98		
					H	23.41		
				E2	V	23.21		
					H	23.01		

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	23.49	33.00	Pass
					H	22.47		
				E1	V	22.86		
					H	22.87		
				E2	V	23.77		
					H	20.11		
	Middle	15	0	H	V	23.82	33.00	Pass
					H	21.13		
				E1	V	22.21		
					H	21.56		
				E2	V	22.68		
					H	23.22		
	Highest	15	0	H	V	21.46	33.00	Pass
					H	24.61		
				E1	V	23.69		
					H	23.39		
				E2	V	22.91		
					H	23.27		

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	23.25	33.00	Pass
					H	22.33		
				E1	V	23.54		
					H	22.92		
				E2	V	23.82		
					H	20.02		
	Middle	25	0	H	V	24.16	33.00	Pass
					H	21.15		
				E1	V	23.00		
					H	20.80		
				E2	V	22.57		
					H	22.91		
	Highest	25	0	H	V	21.32	33.00	Pass
					H	23.90		
				E1	V	24.05		
					H	23.55		
				E2	V	22.73		
					H	22.91		

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	23.56	33.00	Pass
					H	22.39		
				E1	V	23.29		
					H	23.38		
				E2	V	24.26		
					H	19.68		
	Middle	50	0	H	V	23.80	33.00	Pass
					H	21.05		
				E1	V	22.07		
					H	20.99		
				E2	V	22.42		
					H	23.38		
	Highest	50	0	H	V	21.69	33.00	Pass
					H	23.85		
				E1	V	23.87		
					H	23.00		
				E2	V	22.79		
					H	22.38		

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	23.88	33.00	Pass
					H	22.54		
				E1	V	23.76		
					H	22.69		
				E2	V	23.57		
					H	20.35		
	Middle	75	0	H	V	24.16	33.00	Pass
					H	21.00		
				E1	V	22.82		
					H	20.79		
				E2	V	22.81		
					H	22.76		
	Highest	75	0	H	V	21.51	33.00	Pass
					H	24.22		
				E1	V	24.38		
					H	22.72		
				E2	V	22.51		
					H	23.32		

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	24.01	33.00	Pass
					H	22.09		
				E1	V	22.94		
					H	23.58		
				E2	V	23.80		
					H	20.10		
	Middle	100	0	H	V	24.03	33.00	Pass
					H	21.50		
				E1	V	22.11		
					H	21.13		
				E2	V	22.98		
					H	23.42		
	Highest	100	0	H	V	21.18	33.00	Pass
					H	24.23		
				E1	V	24.22		
					H	22.60		
				E2	V	22.94		
					H	22.52		

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	23.56	33.00	Pass
					H	22.54		
				E1	V	23.76		
					H	22.99		
				E2	V	24.06		
					H	20.01		
	6	0	Middle	H	V	23.39	33.00	Pass
					H	21.62		
				E1	V	22.52		
					H	21.29		
				E2	V	22.99		
					H	23.12		
	6	0	Highest	H	V	21.75	33.00	Pass
					H	24.09		
				E1	V	24.17		
					H	22.63		
				E2	V	23.03		
					H	23.21		

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	23.67	33.00	Pass
					H	21.90		
				E1	V	23.42		
					H	23.04		
				E2	V	23.56		
					H	19.95		
	Middle	15	0	H	V	23.43	33.00	Pass
					H	21.17		
				E1	V	22.85		
					H	20.95		
				E2	V	23.20		
					H	22.72		
	Highest	15	0	H	V	21.20	33.00	Pass
					H	23.98		
				E1	V	23.91		
					H	22.58		
				E2	V	23.22		
					H	23.20		

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	23.99	33.00	Pass
					H	21.82		
				E1	V	23.23		
					H	23.40		
				E2	V	23.69		
					H	20.30		
	Middle	25	0	H	V	24.02	33.00	Pass
					H	21.57		
				E1	V	22.31		
					H	21.20		
				E2	V	23.18		
					H	23.32		
	Highest	25	0	H	V	21.82	33.00	Pass
					H	24.17		
				E1	V	24.52		
					H	23.33		
				E2	V	22.42		
					H	22.59		

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	23.49	33.00	Pass
					H	21.90		
				E1	V	23.62		
					H	23.04		
				E2	V	23.79		
					H	19.74		
	Middle	50	0	H	V	23.48	33.00	Pass
					H	21.06		
				E1	V	22.23		
					H	21.24		
				E2	V	22.48		
					H	23.61		
	Highest	50	0	H	V	21.74	33.00	Pass
					H	24.36		
				E1	V	23.78		
					H	23.30		
				E2	V	23.10		
					H	22.62		

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	23.52	33.00	Pass
					H	22.44		
				E1	V	23.32		
					H	22.94		
				E2	V	23.82		
					H	19.73		
	Middle	75	0	H	V	23.70	33.00	Pass
					H	21.04		
				E1	V	22.39		
					H	20.76		
				E2	V	22.94		
					H	22.64		
	Highest	75	0	H	V	21.21	33.00	Pass
					H	24.64		
				E1	V	23.92		
					H	23.43		
				E2	V	23.00		
					H	23.30		

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	23.56	33.00	Pass
					H	21.68		
				E1	V	22.98		
					H	22.94		
				E2	V	23.72		
					H	20.44		
	Middle	100	0	H	V	23.70	33.00	Pass
					H	21.35		
				E1	V	22.97		
					H	20.95		
				E2	V	22.34		
					H	23.07		
	Highest	100	0	H	V	21.52	33.00	Pass
					H	24.57		
				E1	V	23.94		
					H	23.10		
				E2	V	22.89		
					H	23.03		

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	23.60	30.00	Pass
					H	22.43		
				E1	V	23.02		
					H	22.73		
				E2	V	24.38		
					H	19.86		
	Middle	6	0	H	V	24.08	30.00	Pass
					H	21.92		
				E1	V	22.51		
					H	21.58		
				E2	V	22.68		
					H	23.49		
	Highest	6	0	H	V	21.34	30.00	Pass
					H	24.46		
				E1	V	23.68		
					H	22.82		
				E2	V	22.38		
					H	23.08		

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	23.37	30.00	Pass
					H	22.29		
				E1	V	23.22		
					H	23.45		
				E2	V	24.05		
					H	19.65		
	Middle	15	0	H	V	24.05	30.00	Pass
					H	21.87		
				E1	V	22.39		
					H	21.45		
				E2	V	22.36		
					H	22.65		
	Highest	15	0	H	V	21.43	30.00	Pass
					H	23.79		
				E1	V	24.34		
					H	23.33		
				E2	V	22.80		
					H	22.84		

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	24.06	30.00	Pass
					H	22.31		
				E1	V	23.17		
					H	23.43		
				E2	V	23.92		
					H	19.84		
	Middle	25	0	H	V	23.38	30.00	Pass
					H	21.90		
				E1	V	22.74		
					H	21.55		
				E2	V	22.27		
					H	23.11		
	Highest	25	0	H	V	21.53	30.00	Pass
					H	24.44		
				E1	V	24.22		
					H	23.11		
				E2	V	22.84		
					H	23.35		

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	23.48	30.00	Pass
					H	21.98		
				E1	V	23.36		
					H	22.74		
				E2	V	23.64		
					H	19.81		
	Middle	50	0	H	V	23.60	30.00	Pass
					H	21.38		
				E1	V	22.91		
					H	21.04		
				E2	V	23.07		
					H	23.03		
	Highest	50	0	H	V	21.35	30.00	Pass
					H	24.70		
				E1	V	23.69		
					H	22.74		
				E2	V	22.72		
					H	23.07		

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	23.56	30.00	Pass
					H	22.12		
				E1	V	23.24		
					H	23.17		
				E2	V	23.71		
					H	20.04		
	Middle	75	0	H	V	23.71	30.00	Pass
					H	21.66		
				E1	V	22.38		
					H	21.37		
				E2	V	23.24		
					H	22.70		
	Highest	75	0	H	V	21.16	30.00	Pass
					H	24.51		
				E1	V	24.06		
					H	22.64		
				E2	V	22.58		
					H	23.21		

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	23.34	30.00	Pass
					H	21.75		
				E1	V	23.13		
					H	22.84		
				E2	V	23.63		
					H	20.35		
	Middle	100	0	H	V	23.55	30.00	Pass
					H	21.52		
				E1	V	22.43		
					H	20.83		
				E2	V	22.54		
					H	22.93		
	Highest	100	0	H	V	21.41	30.00	Pass
					H	23.75		
				E1	V	23.61		
					H	23.20		
				E2	V	22.83		
					H	23.26		

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	23.51	30.00	Pass
					H	22.00		
				E1	V	23.23		
					H	22.69		
				E2	V	24.22		
					H	19.49		
	Middle	6	0	H	V	23.60	30.00	Pass
					H	21.23		
				E1	V	22.38		
					H	21.06		
				E2	V	22.27		
					H	22.93		
	Highest	6	0	H	V	21.47	30.00	Pass
					H	23.88		
				E1	V	24.08		
					H	22.79		
				E2	V	22.47		
					H	23.27		

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	23.29	30.00	Pass
					H	22.11		
				E1	V	23.35		
					H	22.69		
				E2	V	23.67		
					H	19.84		
	Middle	15	0	H	V	24.17	30.00	Pass
					H	21.10		
				E1	V	22.26		
					H	20.65		
				E2	V	22.55		
					H	23.60		
	Highest	15	0	H	V	21.16	30.00	Pass
					H	24.13		
				E1	V	24.32		
					H	22.71		
				E2	V	22.49		
					H	22.39		

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	23.62	30.00	Pass
					H	21.72		
				E1	V	23.11		
					H	23.50		
				E2	V	24.13		
					H	19.70		
	Middle	25	0	H	V	23.79	30.00	Pass
					H	21.69		
				E1	V	23.05		
					H	21.10		
				E2	V	22.65		
					H	22.79		
	Highest	25	0	H	V	21.52	30.00	Pass
					H	23.86		
				E1	V	24.26		
					H	23.46		
				E2	V	22.33		
					H	23.05		

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	23.82	30.00	Pass
					H	21.63		
				E1	V	23.08		
					H	23.29		
				E2	V	23.69		
					H	20.40		
	Middle	50	0	H	V	23.76	30.00	Pass
					H	20.98		
				E1	V	22.18		
					H	20.79		
				E2	V	23.06		
					H	23.22		
	Highest	50	0	H	V	21.26	30.00	Pass
					H	24.35		
				E1	V	23.83		
					H	23.40		
				E2	V	22.72		
					H	22.46		

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	23.87	30.00	Pass
					H	22.36		
				E1	V	23.59		
					H	23.40		
				E2	V	24.32		
					H	20.15		
	Middle	75	0	H	V	24.20	30.00	Pass
					H	21.18		
				E1	V	22.60		
					H	20.67		
				E2	V	22.36		
					H	23.55		
	Highest	75	0	H	V	21.49	30.00	Pass
					H	24.61		
				E1	V	23.63		
					H	23.12		
				E2	V	22.43		
					H	23.17		

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	24.48	30.00	Pass
					H	22.93		
				E1	V	23.80		
					H	22.66		
				E2	V	24.02		
					H	22.94		
	Middle	100	0	H	V	24.40	30.00	Pass
					H	22.96		
				E1	V	24.08		
					H	23.17		
				E2	V	23.61		
					H	22.94		
	Highest	100	0	H	V	24.06	30.00	Pass
					H	23.00		
				E1	V	24.28		
					H	22.51		
				E2	V	23.60		
					H	22.59		

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	24.00	38.45	Pass
					H	22.16		
				E1	V	23.04		
					H	22.56		
				E2	V	24.39		
					H	20.82		
	Middle	6	0	H	V	22.77	38.45	Pass
					H	21.96		
				E1	V	21.45		
					H	21.15		
				E2	V	21.93		
					H	22.15		
	Highest	6	0	H	V	21.35	38.45	Pass
					H	23.48		
				E1	V	23.62		
					H	22.56		
				E2	V	22.95		
					H	22.26		

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	23.77	38.45	Pass
					H	22.65		
				E1	V	23.58		
					H	22.90		
				E2	V	24.18		
					H	22.55		
	Middle	15	0	H	V	23.85	38.45	Pass
					H	23.09		
				E1	V	23.55		
					H	22.90		
				E2	V	24.49		
					H	22.70		
	Highest	15	0	H	V	23.51	38.45	Pass
					H	22.96		
				E1	V	23.84		
					H	22.79		
				E2	V	24.13		
					H	22.82		

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	23.97	38.45	Pass
					H	21.64		
				E1	V	22.85		
					H	23.46		
				E2	V	23.84		
					H	19.95		
	Middle	25	0	H	V	23.93	38.45	Pass
					H	21.57		
				E1	V	22.97		
					H	20.85		
				E2	V	22.39		
					H	23.40		
	Highest	25	0	H	V	21.29	38.45	Pass
					H	24.44		
				E1	V	24.24		
					H	22.98		
				E2	V	23.04		
					H	23.02		

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	23.62	38.45	Pass
					H	22.80		
				E1	V	24.49		
					H	23.03		
				E2	V	23.99		
					H	22.93		
	Middle	50	0	H	V	23.65	38.45	Pass
					H	22.63		
				E1	V	23.64		
					H	22.74		
				E2	V	23.83		
					H	22.61		
	Highest	50	0	H	V	24.46	38.45	Pass
					H	23.11		
				E1	V	24.33		
					H	22.65		
				E2	V	24.49		
					H	22.98		

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	24.14	38.45	Pass
					H	22.14		
				E1	V	23.01		
					H	22.81		
				E2	V	23.71		
					H	19.92		
	Middle	6	0	H	V	23.39	38.45	Pass
					H	21.51		
				E1	V	22.27		
					H	20.79		
				E2	V	22.93		
					H	22.95		
	Highest	6	0	H	V	21.68	38.45	Pass
					H	24.70		
				E1	V	24.33		
					H	22.58		
				E2	V	23.18		
					H	22.85		

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	23.60	38.45	Pass
					H	22.57		
				E1	V	24.29		
					H	22.69		
				E2	V	23.69		
					H	22.64		
	Middle	15	0	H	V	24.02	38.45	Pass
					H	23.35		
				E1	V	23.68		
					H	22.85		
				E2	V	23.61		
					H	23.04		
	Highest	15	0	H	V	23.87	38.45	Pass
					H	22.82		
				E1	V	23.95		
					H	22.50		
				E2	V	23.87		
					H	22.57		

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	23.90	38.45	Pass
					H	22.01		
				E1	V	22.93		
					H	23.30		
				E2	V	24.06		
					H	19.83		
	Middle	25	0	H	V	23.62	38.45	Pass
					H	21.08		
				E1	V	22.52		
					H	21.16		
				E2	V	22.83		
					H	23.17		
	Highest	25	0	H	V	21.61	38.45	Pass
					H	24.49		
				E1	V	23.69		
					H	22.60		
				E2	V	22.95		
					H	22.56		

EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	EIRP(dBm)	Limit (dBm)	Result
LTE Band 5 (10MHz) 16 QAM	Lowest	50	0	H	V	24.06	38.45	Pass
					H	21.66		
				E1	V	23.35		
					H	23.13		
				E2	V	24.22		
					H	20.08		
	Middle	50	0	H	V	23.32	38.45	Pass
					H	21.83		
				E1	V	22.22		
					H	21.28		
				E2	V	22.94		
					H	22.73		
	Highest	50	0	H	V	21.80	38.45	Pass
					H	24.39		
				E1	V	24.55		
					H	22.77		
				E2	V	22.40		
					H	22.91		

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	24.07	33.00	Pass
					H	23.05		
				E1	V	23.51		
					H	23.23		
				E2	V	24.49		
					H	22.86		
	Middle	6	0	H	V	24.26	33.00	Pass
					H	23.21		
				E1	V	24.44		
					H	23.34		
				E2	V	24.46		
					H	23.25		
	Highest	6	0	H	V	23.97	33.00	Pass
					H	23.00		
				E1	V	24.29		
					H	22.89		
				E2	V	23.98		
					H	22.76		

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	24.32	33.00	Pass
					H	22.98		
				E1	V	23.61		
					H	22.60		
				E2	V	23.98		
					H	22.81		
	Middle	15	0	H	V	23.81	33.00	Pass
					H	23.50		
				E1	V	24.14		
					H	23.37		
				E2	V	23.80		
					H	22.80		
	Highest	15	0	H	V	23.98	33.00	Pass
					H	22.96		
				E1	V	24.10		
					H	22.86		
				E2	V	24.47		
					H	22.65		

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	24.33	33.00	Pass
					H	23.42		
				E1	V	24.28		
					H	22.67		
				E2	V	24.34		
					H	22.72		
	Middle	25	0	H	V	24.20	33.00	Pass
					H	23.05		
				E1	V	23.72		
					H	23.05		
				E2	V	23.83		
					H	23.50		
	Highest	25	0	H	V	23.52	33.00	Pass
					H	22.90		
				E1	V	23.77		
					H	22.96		
				E2	V	23.72		
					H	22.54		

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	23.97	33.00	Pass
					H	21.74		
				E1	V	23.27		
					H	23.14		
				E2	V	23.94		
					H	19.57		
	Middle	50	0	H	V	23.73	33.00	Pass
					H	21.06		
				E1	V	22.18		
					H	20.95		
				E2	V	22.26		
					H	23.43		
	Highest	50	0	H	V	21.01	33.00	Pass
					H	24.53		
				E1	V	23.73		
					H	23.26		
				E2	V	22.58		
					H	22.85		

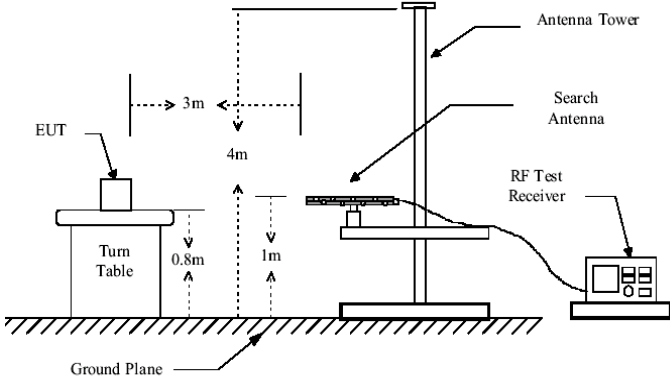
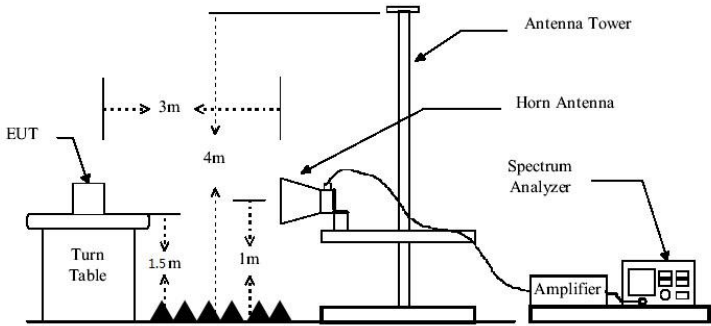
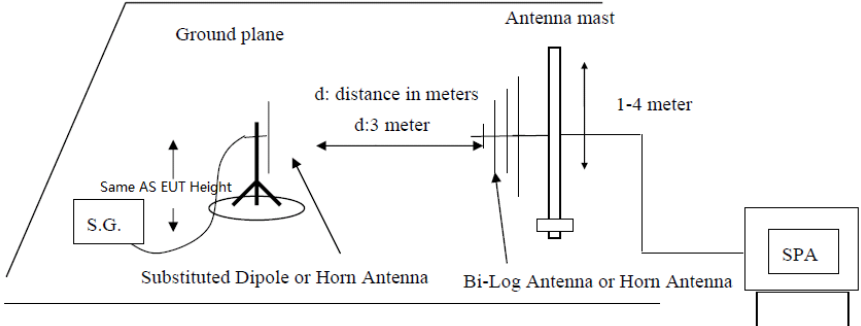
EUT mode	Channel	RB Size	RB Offset	EUT Pol.	Antenna Pol.	ERP(dBm)	Limit (dBm)	Result
LTE Band 12 (1.4MHz) 16QAM	Lowest	6	0	H	V	24.18	33.00	Pass
					H	22.72		
				E1	V	24.43		
					H	22.53		
				E2	V	24.29		
					H	23.23		
	Middle	6	0	H	V	23.78	33.00	Pass
					H	22.88		
				E1	V	23.61		
					H	23.35		
				E2	V	24.34		
					H	23.26		
	Highest	6	0	H	V	24.39	33.00	Pass
					H	22.91		
				E1	V	23.94		
					H	23.30		
				E2	V	24.04		
					H	23.07		

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	24.22	33.00	Pass
					H	22.68		
				E1	V	23.95		
					H	23.07		
				E2	V	23.78		
					H	22.76		
	Middle	15	0	H	V	24.41	33.00	Pass
					H	23.31		
				E1	V	23.63		
					H	22.70		
				E2	V	24.31		
					H	22.61		
	Highest	15	0	H	V	23.53	33.00	Pass
					H	23.07		
				E1	V	23.67		
					H	23.27		
				E2	V	24.31		
					H	23.24		

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	24.05	33.00	Pass
					H	23.48		
				E1	V	23.93		
					H	22.60		
				E2	V	23.91		
					H	22.78		
	Middle	25	0	H	V	24.42	33.00	Pass
					H	22.77		
				E1	V	24.37		
					H	23.32		
				E2	V	24.04		
					H	22.53		
	Highest	25	0	H	V	24.21	33.00	Pass
					H	23.18		
				E1	V	24.29		
					H	22.95		
				E2	V	24.25		
					H	23.35		

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	23.95	33.00	Pass
					H	22.65		
				E1	V	24.35		
					H	22.93		
				E2	V	24.17		
					H	22.69		
	Middle	50	0	H	V	24.50	33.00	Pass
					H	22.59		
				E1	V	23.84		
					H	23.46		
				E2	V	24.19		
					H	23.07		
	Highest	50	0	H	V	24.46	33.00	Pass
					H	22.54		
				E1	V	24.40		
					H	23.06		
				E2	V	23.76		
					H	22.67		

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:-13dBm
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. $\text{ERP / EIRP} = \text{S.G. output (dBm)} + \text{Antenna Gain(dB/dBi)} - \text{Cable Loss (dB)}$
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)		
3701.40	Vertical	-36.80	-13.00	Pass
5552.10	V	-39.08		
7402.80	V	-37.71		
9253.50	V	-43.14		
11104.20	V	---		
3701.40	Horizontal	-38.58	-13.00	Pass
5552.10	H	-42.25		
7402.80	H	-44.94		
9253.50	H	-46.42		
11104.20	H	---		
Test mode:	LTE Band 2(1.4MHz)		Test channel:	Middle
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3760.00	Vertical	-36.99	-13.00	Pass
5640.00	V	-39.54		
7520.00	V	-37.56		
9400.00	V	-43.60		
11280.00	V	---		
3760.00	Horizontal	-38.81	-13.00	Pass
5640.00	H	-42.91		
7520.00	H	-44.66		
9400.00	H	-46.24		
11280.00	H	---		
Test mode:	LTE Band 2(1.4MHz)		Test channel:	Highest
Frequency (MHz)	Spurious Emission		Limit (dBm)	Result
	Polarization	Level (dBm)		
3818.60	Vertical	-36.39	-13.00	Pass
5727.90	V	-39.92		
7637.20	V	-37.77		
9546.50	V	-43.79		
11455.80	V	---		
3818.60	Horizontal	-39.46	-13.00	Pass
5727.90	H	-42.37		
7637.20	H	-45.02		
9546.50	H	-46.36		
11455.80	H	---		

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.