



**BUREAU  
VERITAS**

Test Report No.: W7L-220214W001RF03

LTE Band CA\_7C

CA_7C								
Combination 10MHz+20MHz (50RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20805	20949	QPSK	1	99	1	0	2	23.17
		16QAM	1	99	1	0	2	22.62
		64QAM	1	99	1	0	2	21.78
21006	21150	QPSK	1	99	1	0	2	23.17
		16QAM	1	99	1	0	2	22.61
		64QAM	1	99	1	0	2	21.53
21206	21350	QPSK	1	99	1	0	2	23.19
		16QAM	1	99	1	0	2	22.31
		64QAM	1	99	1	0	2	21.74
Combination 15MHz+10MHz (75RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20825	20975	QPSK	1	74	1	0	2	23.16
		16QAM	1	74	1	0	2	22.62
		64QAM	1	74	1	0	2	21.82
21051	21171	QPSK	1	74	1	0	2	23.20
		16QAM	1	74	1	0	2	22.57
		64QAM	1	74	1	0	2	21.56
21277	21397	QPSK	1	74	1	0	2	23.13
		16QAM	1	74	1	0	2	22.35
		64QAM	1	74	1	0	2	21.73



Test Report No.: W7L-220214W001RF03

CA_7C								
Combination 15MHz+15MHz (75RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20825	20975	QPSK	1	74	1	0	2	23.15
		16QAM	1	74	1	0	2	22.56
		64QAM	1	74	1	0	2	21.83
21025	21175	QPSK	1	74	1	0	2	23.13
		16QAM	1	74	1	0	2	22.61
		64QAM	1	74	1	0	2	21.50
21225	21375	QPSK	1	74	1	0	2	23.15
		16QAM	1	74	1	0	2	22.35
		64QAM	1	74	1	0	2	21.77
Combination 15MHz+20MHz (75RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20828	20999	QPSK	1	74	1	0	2	23.21
		16QAM	1	74	1	0	2	22.60
		64QAM	1	74	1	0	2	21.83
21003	21174	QPSK	1	74	1	0	2	23.15
		16QAM	1	74	1	0	2	22.61
		64QAM	1	74	1	0	2	21.50
21179	21350	QPSK	1	74	1	0	2	23.20
		16QAM	1	74	1	0	2	22.36
		64QAM	1	74	1	0	2	21.74

CA_7C								
Combination 20MHz+10MHz (100RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20850	20994	QPSK	1	99	1	0	2	23.19
		16QAM	1	99	1	0	2	22.63
		64QAM	1	99	1	0	2	21.79
21051	21195	QPSK	1	99	1	0	2	23.19
		16QAM	1	99	1	0	2	22.56
		64QAM	1	99	1	0	2	21.57
21251	21395	QPSK	1	99	1	0	2	23.14
		16QAM	1	99	1	0	2	22.37
		64QAM	1	99	1	0	2	21.76
Combination 20MHz+15MHz (100RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
20850	21021	QPSK	1	99	1	0	2	23.22
		16QAM	1	99	1	0	2	22.64
		64QAM	1	99	1	0	2	21.85
21026	21197	QPSK	1	99	1	0	2	23.21
		16QAM	1	99	1	0	2	22.62
		64QAM	1	99	1	0	2	21.58
21201	21372	QPSK	1	99	1	0	2	23.21
		16QAM	1	99	1	0	2	22.39
		64QAM	1	99	1	0	2	21.78



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CA_7C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
20850	21048	QPSK	1	0	1	99	2	11.33
			1	0	0	0	1	23.04
			1	99	1	0	2	23.39
		16QAM	1	0	1	99	2	12.02
			1	0	0	0	1	22.64
			1	99	1	0	2	22.84
		64QAM	1	0	1	99	2	11.75
			1	0	0	0	1	21.68
			1	99	1	0	2	21.83
21001	21199	QPSK	1	0	1	99	2	11.45
			1	0	0	0	1	22.98
			1	99	1	0	2	23.26
		16QAM	1	0	1	99	2	11.91
			1	0	0	0	1	22.40
			1	99	1	0	2	22.65
		64QAM	1	0	1	99	2	11.53
			1	0	0	0	1	21.62
			1	99	1	0	2	21.65
21152	21350	QPSK	1	0	1	99	2	11.24
			1	0	0	0	1	22.83
			1	99	1	0	2	23.25
		16QAM	1	0	1	99	2	11.64
			1	0	0	0	1	22.31
			1	99	1	0	2	22.59
		64QAM	1	0	1	99	2	11.42
			1	0	0	0	1	21.75
			1	99	1	0	2	21.85



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Test Report No.: W7L-220214W001RF03

LTE Band CA\_66B

CA_66B								
Combination 5MHz+5MHz (25RB+25RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
131997	132045	QPSK	1	24	1	0	2	22.88
		16QAM	1	24	1	0	2	22.03
		64QAM	1	24	1	0	2	20.97
132398	132446	QPSK	1	24	1	0	2	22.92
		16QAM	1	24	1	0	2	21.87
		64QAM	1	24	1	0	2	20.98
132599	132647	QPSK	1	24	1	0	2	22.74
		16QAM	1	24	1	0	2	22.00
		64QAM	1	24	1	0	2	20.97
Combination 5MHz+10MHz (25RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
132000	132072	QPSK	1	24	1	0	2	22.94
		16QAM	1	24	1	0	2	21.98
		64QAM	1	24	1	0	2	21.01
132375	132447	QPSK	1	24	1	0	2	22.92
		16QAM	1	24	1	0	2	21.90
		64QAM	1	24	1	0	2	21.02
132550	132622	QPSK	1	24	1	0	2	22.70
		16QAM	1	24	1	0	2	21.97
		64QAM	1	24	1	0	2	20.96



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CA_66B								
Combination 5MHz+15MHz (25RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
132002	132095	QPSK	1	24	1	0	2	22.92
		16QAM	1	24	1	0	2	22.03
		64QAM	1	24	1	0	2	20.99
132353	132446	QPSK	1	24	1	0	2	22.92
		16QAM	1	24	1	0	2	21.87
		64QAM	1	24	1	0	2	21.03
132504	132597	QPSK	1	24	1	0	2	22.75
		16QAM	1	24	1	0	2	21.97
		64QAM	1	24	1	0	2	20.96
Combination 10MHz+5MHz (50RB+25RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
132022	132094	QPSK	1	49	1	0	2	22.95
		16QAM	1	49	1	0	2	21.99
		64QAM	1	49	1	0	2	21.03
132397	132469	QPSK	1	49	1	0	2	22.87
		16QAM	1	49	1	0	2	21.94
		64QAM	1	49	1	0	2	20.97
132572	132644	QPSK	1	49	1	0	2	22.76
		16QAM	1	49	1	0	2	21.99
		64QAM	1	49	1	0	2	20.98



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CA_66B								
Combination 15MHz+5MHz (75RB+25RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
132047	132140	QPSK	1	74	1	0	2	22.96
		16QAM	1	74	1	0	2	22.05
		64QAM	1	74	1	0	2	21.05
132398	132491	QPSK	1	74	1	0	2	22.93
		16QAM	1	74	1	0	2	21.95
		64QAM	1	74	1	0	2	21.04
132549	132642	QPSK	1	74	1	0	2	22.78
		16QAM	1	74	1	0	2	22.01
		64QAM	1	74	1	0	2	21.02



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CA_66B								
Combination 10MHz+10MHz (50RB+50RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132022	132121	QPSK	1	0	1	49	2	12.49
			1	0	0	0	1	22.90
			1	49	1	0	2	23.01
		16QAM	1	0	1	49	2	12.54
			1	0	0	0	1	21.99
			1	49	1	0	2	22.16
		64QAM	1	0	1	49	2	12.23
			1	0	0	0	1	21.12
			1	49	1	0	2	21.13
132373	132472	QPSK	1	0	1	49	2	12.40
			1	0	0	0	1	22.75
			1	49	1	0	2	23.03
		16QAM	1	0	1	49	2	12.63
			1	0	0	0	1	21.93
			1	49	1	0	2	21.99
		64QAM	1	0	1	49	2	12.32
			1	0	0	0	1	21.13
			1	49	1	0	2	21.15
132523	132622	QPSK	1	0	1	49	2	13.05
			1	0	0	0	1	22.63
			1	49	1	0	2	22.85
		16QAM	1	0	1	49	2	13.15
			1	0	0	0	1	21.89
			1	49	1	0	2	22.06
		64QAM	1	0	1	49	2	13.07
			1	0	0	0	1	21.16
			1	49	1	0	2	21.05





Test Report No.: W7L-220214W001RF03

LTE Band CA\_66C

CA_66C								
Combination 5MHz+20MHz (25RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
132005	132122	QPSK	1	24	1	0	2	23.02
		16QAM	1	24	1	0	2	22.20
		64QAM	1	24	1	0	2	21.73
132330	132447	QPSK	1	24	1	0	2	22.90
		16QAM	1	24	1	0	2	22.36
		64QAM	1	24	1	0	2	21.57
132455	132572	QPSK	1	24	1	0	2	23.01
		16QAM	1	24	1	0	2	22.39
		64QAM	1	24	1	0	2	21.63
Combination 10MHz+15MHz (50RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
132025	132145	QPSK	1	49	1	0	2	22.99
		16QAM	1	49	1	0	2	22.21
		64QAM	1	49	1	0	2	21.66
132351	132471	QPSK	1	49	1	0	2	22.91
		16QAM	1	49	1	0	2	22.33
		64QAM	1	49	1	0	2	21.63
132477	132597	QPSK	1	49	1	0	2	22.98
		16QAM	1	49	1	0	2	22.40
		64QAM	1	49	1	0	2	21.64



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CA_66C								
Combination 10MHz+20MHz (50RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
132027	132171	QPSK	1	49	1	0	2	22.97
		16QAM	1	49	1	0	2	22.19
		64QAM	1	49	1	0	2	21.73
132328	132472	QPSK	1	49	1	0	2	22.90
		16QAM	1	49	1	0	2	22.36
		64QAM	1	49	1	0	2	21.57
132428	132572	QPSK	1	49	1	0	2	23.01
		16QAM	1	49	1	0	2	22.38
		64QAM	1	49	1	0	2	21.60
Combination 15MHz+10MHz (75RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
132047	132167	QPSK	1	74	1	0	2	22.96
		16QAM	1	74	1	0	2	22.17
		64QAM	1	74	1	0	2	21.70
132373	132493	QPSK	1	74	1	0	2	22.94
		16QAM	1	74	1	0	2	22.33
		64QAM	1	74	1	0	2	21.63
132499	132619	QPSK	1	74	1	0	2	23.02
		16QAM	1	74	1	0	2	22.38
		64QAM	1	74	1	0	2	21.59



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CA_66C								
Combination 15MHz+15MHz (75RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
132047	132197	QPSK	1	74	1	0	2	22.99
		16QAM	1	74	1	0	2	22.21
		64QAM	1	74	1	0	2	21.66
132347	132497	QPSK	1	74	1	0	2	22.91
		16QAM	1	74	1	0	2	22.32
		64QAM	1	74	1	0	2	21.60
132447	132597	QPSK	1	74	1	0	2	23.02
		16QAM	1	74	1	0	2	22.37
		64QAM	1	74	1	0	2	21.57
Combination 15MHz+20MHz (75RB+100RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
132050	132221	QPSK	1	74	1	0	2	23.02
		16QAM	1	74	1	0	2	22.17
		64QAM	1	74	1	0	2	21.73
132325	132496	QPSK	1	74	1	0	2	22.87
		16QAM	1	74	1	0	2	22.37
		64QAM	1	74	1	0	2	21.62
132401	132572	QPSK	1	74	1	0	2	23.01
		16QAM	1	74	1	0	2	22.38
		64QAM	1	74	1	0	2	21.63



Test Report No.: W7L-220214W001RF03

CA_66C								
Combination 20MHz+5MHz (100RB+25RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
132072	132189	QPSK	1	99	1	0	2	23.02
		16QAM	1	99	1	0	2	22.15
		64QAM	1	99	1	0	2	21.73
132397	132514	QPSK	1	99	1	0	2	22.87
		16QAM	1	99	1	0	2	22.32
		64QAM	1	99	1	0	2	21.61
132522	132639	QPSK	1	99	1	0	2	23.04
		16QAM	1	99	1	0	2	22.39
		64QAM	1	99	1	0	2	21.63
Combination 20MHz+10MHz (100RB+50RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
132072	132216	QPSK	1	99	1	0	2	22.98
		16QAM	1	99	1	0	2	22.21
		64QAM	1	99	1	0	2	21.68
132373	132517	QPSK	1	99	1	0	2	22.94
		16QAM	1	99	1	0	2	22.31
		64QAM	1	99	1	0	2	21.63
132473	132617	QPSK	1	99	1	0	2	23.03
		16QAM	1	99	1	0	2	22.40
		64QAM	1	99	1	0	2	21.62



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CA_66C								
Combination 20MHz+15MHz (100RB+75RB)								
PCC	SCC	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
Channel	Channel		RB Size	RB offset	RB Size	RB offset		
132072	132243	QPSK	1	99	1	0	2	23.04
		16QAM	1	99	1	0	2	22.23
		64QAM	1	99	1	0	2	21.74
132348	132519	QPSK	1	99	1	0	2	22.95
		16QAM	1	99	1	0	2	22.38
		64QAM	1	99	1	0	2	21.65
132423	132594	QPSK	1	99	1	0	2	23.05
		16QAM	1	99	1	0	2	22.44
		64QAM	1	99	1	0	2	21.65



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CA_66C								
Combination 20MHz+20MHz (100RB+100RB)								
PCC Channel	SCC Channel	Modulation	PCC		SCC		Total RB Size	Measured Power (dBm)
			RB Size	RB offset	RB Size	RB offset		
132072	132270	QPSK	1	0	1	99	2	14.10
			1	0	0	0	1	22.43
			1	99	1	0	2	23.14
		16QAM	1	0	1	99	2	14.57
			1	0	0	0	1	21.96
			1	99	1	0	2	22.38
		64QAM	1	0	1	99	2	14.08
			1	0	0	0	1	21.34
			1	99	1	0	2	21.84
132323	132521	QPSK	1	0	1	99	2	13.93
			1	0	0	0	1	22.68
			1	99	1	0	2	23.04
		16QAM	1	0	1	99	2	14.63
			1	0	0	0	1	22.36
			1	99	1	0	2	22.58
		64QAM	1	0	1	99	2	13.95
			1	0	0	0	1	21.28
			1	99	1	0	2	21.75
132374	132572	QPSK	1	0	1	99	2	13.91
			1	0	0	0	1	22.70
			1	99	1	0	2	23.09
		16QAM	1	0	1	99	2	14.59
			1	0	0	0	1	22.37
			1	99	1	0	2	22.52
		64QAM	1	0	1	99	2	13.99
			1	0	0	0	1	21.40
			1	99	1	0	2	21.80



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Test Report No.: W7L-220214W001RF03

**EIRP**

**WCDMA IV**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
1312	1712.4	23.77	3.09	26.86	485.29	1
1413	1732.6	23.74	3.09	26.83	481.95	1
1513	1752.6	23.65	3.09	26.74	472.06	1

**LTE BAND 4**

**CHANNEL BANDWIDTH: 1.4MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	23.35	3.09	26.44	440.55	1
20175	1732.5	23.34	3.09	26.43	439.54	1
20393	1754.3	23.2	3.09	26.29	425.6	1

**CHANNEL BANDWIDTH: 1.4MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	22.73	3.09	25.82	381.94	1
20175	1732.5	22.64	3.09	25.73	374.11	1
20393	1754.3	22.56	3.09	25.65	367.28	1

**CHANNEL BANDWIDTH: 1.4MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19957	1710.7	21.63	3.09	24.72	296.48	1
20175	1732.5	21.57	3.09	24.66	292.42	1
20393	1754.3	21.47	3.09	24.56	285.76	1

**CHANNEL BANDWIDTH: 3MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	23.3	3.09	26.39	435.51	1
20175	1732.5	23.29	3.09	26.38	434.51	1
20385	1753.5	23.16	3.09	26.25	421.7	1

**CHANNEL BANDWIDTH: 3MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	22.68	3.09	25.77	377.57	1
20175	1732.5	22.68	3.09	25.77	377.57	1
20385	1753.5	22.53	3.09	25.62	364.75	1

**CHANNEL BANDWIDTH: 3MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19965	1711.5	21.66	3.09	24.75	298.54	1
20175	1732.5	21.57	3.09	24.66	292.42	1
20385	1753.5	21.45	3.09	24.54	284.45	1

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	23.33	3.09	26.42	438.53	1
20175	1732.5	23.29	3.09	26.38	434.51	1
20375	1752.5	23.13	3.09	26.22	418.79	1

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	22.67	3.09	25.76	376.7	1
20175	1732.5	22.66	3.09	25.75	375.84	1
20375	1752.5	22.5	3.09	25.59	362.24	1

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
19975	1712.5	21.67	3.09	24.76	299.23	1
20175	1732.5	21.54	3.09	24.63	290.4	1
20375	1752.5	21.44	3.09	24.53	283.79	1



**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	23.34	3.09	26.43	439.54	1
20175	1732.5	23.28	3.09	26.37	433.51	1
20350	1750	23.16	3.09	26.25	421.7	1

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	22.69	3.09	25.78	378.44	1
20175	1732.5	22.64	3.09	25.73	374.11	1
20350	1750	22.56	3.09	25.65	367.28	1

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20000	1715	21.65	3.09	24.74	297.85	1
20175	1732.5	21.51	3.09	24.6	288.4	1
20350	1750	21.5	3.09	24.59	287.74	1

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	23.35	3.09	26.44	440.55	1
20175	1732.5	23.33	3.09	26.42	438.53	1
20325	1747.5	23.14	3.09	26.23	419.76	1

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	22.69	3.09	25.78	378.44	1
20175	1732.5	22.7	3.09	25.79	379.31	1
20325	1747.5	22.55	3.09	25.64	366.44	1

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20025	1717.5	21.65	3.09	24.74	297.85	1
20175	1732.5	21.51	3.09	24.6	288.4	1
20325	1747.5	21.5	3.09	24.59	287.74	1

**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	23.11	3.09	26.2	416.87	1
20175	1732.5	23.37	3.09	26.46	442.59	1
20300	1745	23.18	3.09	26.27	423.64	1

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	22.4	3.09	25.49	354	1
20175	1732.5	22.72	3.09	25.81	381.07	1
20300	1745	22.58	3.09	25.67	368.98	1

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20050	1720	21.41	3.09	24.5	281.84	1
20175	1732.5	21.59	3.09	24.68	293.76	1
20300	1745	21.52	3.09	24.61	289.07	1

**LTE BAND 7**

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	23.38	1.69	25.07	321.37	2
21100	2535.0	23.22	1.69	24.91	309.74	2
21425	2567.5	23.19	1.69	24.88	307.61	2

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	22.71	1.69	24.4	275.42	2
21100	2535.0	22.6	1.69	24.29	268.53	2
21425	2567.5	22.54	1.69	24.23	264.85	2

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20775	2502.5	21.68	1.69	23.37	217.27	2
21100	2535	21.52	1.69	23.21	209.41	2
21425	2567.5	21.48	1.69	23.17	207.49	2

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505.0	23.43	1.69	25.12	325.09	2
21100	2535.0	23.17	1.69	24.86	306.2	2
21400	2565.0	23.19	1.69	24.88	307.61	2

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505.0	22.75	1.69	24.44	277.97	2
21100	2535.0	22.6	1.69	24.29	268.53	2
21400	2565.0	22.53	1.69	24.22	264.24	2

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20800	2505	21.73	1.69	23.42	219.79	2
21100	2535	21.47	1.69	23.16	207.01	2
21400	2565	21.48	1.69	23.17	207.49	2

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	23.4	1.69	25.09	322.85	2
21100	2535.0	23.2	1.69	24.89	308.32	2
21375	2562.5	23.18	1.69	24.87	306.9	2

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	22.75	1.69	24.44	277.97	2
21100	2535.0	22.58	1.69	24.27	267.3	2
21375	2562.5	22.54	1.69	24.23	264.85	2

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	21.74	1.69	23.43	220.29	2
21100	2535	21.46	1.69	23.15	206.54	2
21375	2562.5	21.46	1.69	23.15	206.54	2



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**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	23.45	1.69	25.14	326.59	2
21100	2535.0	23.23	1.69	24.92	310.46	2
21350	2560.0	23.2	1.69	24.89	308.32	2

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	22.78	1.69	24.47	279.9	2
21100	2535.0	22.62	1.69	24.31	269.77	2
21350	2560.0	22.56	1.69	24.25	266.07	2

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510	21.76	1.69	23.45	221.31	2
21100	2535	21.53	1.69	23.22	209.89	2
21350	2560	21.5	1.69	23.19	208.45	2



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**LTE BAND 12**

**CHANNEL BANDWIDTH: 1.4MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23017	699.7	23.32	-1.88	19.29	84.92	3
23095	707.5	23.4	-1.88	19.37	86.5	3
23173	715.3	23.5	-1.88	19.47	88.51	3

**CHANNEL BANDWIDTH: 1.4MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23017	699.7	22.65	-1.88	18.62	72.78	3
23095	707.5	22.61	-1.88	18.58	72.11	3
23173	715.3	22.86	-1.88	18.83	76.38	3

**CHANNEL BANDWIDTH: 1.4MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23017	699.7	21.5	-1.88	17.47	55.85	3
23095	707.5	21.56	-1.88	17.53	56.62	3
23173	715.3	21.73	-1.88	17.7	58.88	3

**CHANNEL BANDWIDTH: 3MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23025	700.5	23.28	-1.88	19.25	84.14	3
23095	707.5	23.29	-1.88	19.26	84.33	3
23165	714.5	23.5	-1.88	19.47	88.51	3

**CHANNEL BANDWIDTH: 3MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23025	700.5	22.68	-1.88	18.65	73.28	3
23095	707.5	22.63	-1.88	18.6	72.44	3
23165	714.5	22.86	-1.88	18.83	76.38	3

**CHANNEL BANDWIDTH: 3MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23025	700.5	21.51	-1.88	17.48	55.98	3
23095	707.5	21.58	-1.88	17.55	56.89	3
23165	714.5	21.73	-1.88	17.7	58.88	3

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23035	701.5	23.29	-1.88	19.26	84.33	3
23095	707.5	23.28	-1.88	19.25	84.14	3
23155	713.5	23.54	-1.88	19.51	89.33	3

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23035	701.5	22.68	-1.88	18.65	73.28	3
23095	707.5	22.66	-1.88	18.63	72.95	3
23155	713.5	22.85	-1.88	18.82	76.21	3

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23035	701.5	21.44	-1.88	17.41	55.08	3
23095	707.5	21.63	-1.88	17.6	57.54	3
23155	713.5	21.73	-1.88	17.7	58.88	3

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23060	704	23.34	-1.88	19.31	85.31	3
23095	707.5	23.36	-1.88	19.33	85.7	3
23130	711	23.55	-1.88	19.52	89.54	3

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23060	704	22.7	-1.88	18.67	73.62	3
23095	707.5	22.69	-1.88	18.66	73.45	3
23130	711	22.87	-1.88	18.84	76.56	3

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23060	704	21.52	-1.88	17.49	56.1	3
23095	707.5	21.64	-1.88	17.61	57.68	3
23130	711	21.75	-1.88	17.72	59.16	3

**REMARKS:** ERP Output Power (dBm) = ERP (dBm) -2.15(dB).





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**LTE BAND 13**

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	23.55	-1.88	19.52	89.54	3
23230	782	23.59	-1.88	19.56	90.36	3
23255	784.5	23.58	-1.88	19.55	90.16	3

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	22.88	-1.88	18.85	76.74	3
23230	782	22.86	-1.88	18.83	76.38	3
23255	784.5	22.89	-1.88	18.86	76.91	3

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
23205	779.5	21.78	-1.88	17.75	59.57	3
23230	782	21.82	-1.88	17.79	60.12	3
23255	784.5	21.81	-1.88	17.78	59.98	3

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	23.63	-1.88	19.6	91.20	3
-	-	-	-	-	-	-

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	22.94	-1.88	18.91	77.8	3
-	-	-	-	-	-	-

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
-	-	-	-	-	-	-
23230	782	21.86	-1.88	17.83	60.67	3
-	-	-	-	-	-	-

**REMARKS:** ERP Output Power (dBm) = ERP (dBm) -2.15(dB).



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**LTE BAND 66**

**CHANNEL BANDWIDTH: 1.4MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	23.41	3.09	26.5	446.68	1
132322	1745	23.14	3.09	26.23	419.76	1
132665	1779.3	23.17	3.09	26.26	422.67	1

**CHANNEL BANDWIDTH: 1.4MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	22.6	3.09	25.69	370.68	1
132322	1745	22.4	3.09	25.49	354	1
132665	1779.3	22.53	3.09	25.62	364.75	1

**CHANNEL BANDWIDTH: 1.4MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131979	1710.7	21.7	3.09	24.79	301.3	1
132322	1745	21.31	3.09	24.4	275.42	1
132665	1779.3	21.4	3.09	24.49	281.19	1

**CHANNEL BANDWIDTH: 3MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	23.34	3.09	26.43	439.54	1
132322	1745	23.08	3.09	26.17	414	1
132657	1778.5	23.2	3.09	26.29	425.6	1

**CHANNEL BANDWIDTH: 3MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	22.54	3.09	25.63	365.59	1
132322	1745	22.39	3.09	25.48	353.18	1
132657	1778.5	22.57	3.09	25.66	368.13	1

**CHANNEL BANDWIDTH: 3MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131987	1711.5	21.76	3.09	24.85	305.49	1
132322	1745	21.34	3.09	24.43	277.33	1
132657	1778.5	21.34	3.09	24.43	277.33	1

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	23.33	3.09	26.42	438.53	1
132322	1745	23.06	3.09	26.15	412.1	1
132647	1777.5	23.16	3.09	26.25	421.7	1

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
C	1712.5	22.54	3.09	25.63	365.59	1
132322	1745	22.42	3.09	25.51	355.63	1
132647	1777.5	22.56	3.09	25.65	367.28	1

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
C	1712.5	21.7	3.09	24.79	301.3	1
132322	1745	21.31	3.09	24.4	275.42	1
132647	1777.5	21.4	3.09	24.49	281.19	1

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	23.33	3.09	26.42	438.53	1
132322	1745	23.09	3.09	26.18	414.95	1
132622	1775	23.16	3.09	26.25	421.7	1

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	22.59	3.09	25.68	369.83	1
132322	1745	22.39	3.09	25.48	353.18	1
132622	1775	22.52	3.09	25.61	363.92	1

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	21.69	3.09	24.78	300.61	1
132322	1745	21.32	3.09	24.41	276.06	1
132622	1775	21.37	3.09	24.46	279.25	1

**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	23.28	3.09	26.37	433.51	1
132322	1745	23.11	3.09	26.2	416.87	1
132597	1772.5	23.15	3.09	26.24	420.73	1

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1715	22.57	3.09	25.66	368.13	1
132322	1745	22.46	3.09	25.55	358.92	1
132622	1775	22.56	3.09	25.65	367.28	1

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1715	21.76	3.09	24.85	305.49	1
132322	1745	21.34	3.09	24.43	277.33	1
132622	1775	21.34	3.09	24.43	277.33	1



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**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	23.14	3.09	26.23	419.76	1
132322	1745	23.13	3.09	26.22	418.79	1
132572	1770	23.21	3.09	26.3	426.58	1

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	22.47	3.09	25.56	359.75	1
132322	1745	22.47	3.09	25.56	359.75	1
132572	1770	22.58	3.09	25.67	368.98	1

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	21.43	3.09	24.52	283.14	1
132322	1745	21.36	3.09	24.45	278.61	1
132572	1770	21.42	3.09	24.51	282.49	1



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Test Report No.: W7L-220214W001RF03

**LTE BAND 71**

**CHANNEL BANDWIDTH: 5MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133147	665.5	23.09	0.14	21.08	128.23	3
133247	675.5	22.86	0.14	20.85	121.62	3
133447	695.5	22.98	0.14	20.97	125.03	3

**CHANNEL BANDWIDTH: 5MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133147	665.5	22.55	0.14	20.54	113.24	3
133247	675.5	22.33	0.14	20.32	107.65	3
133447	695.5	22.49	0.14	20.48	111.69	3

**CHANNEL BANDWIDTH: 5MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133147	665.5	21.3	0.14	19.29	84.92	3
133247	675.5	21.17	0.14	19.16	82.41	3
133447	695.5	21.24	0.14	19.23	83.75	3



Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 10MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133172	668	23.09	0.14	21.08	128.23	3
133272	678	22.86	0.14	20.85	121.62	3
133422	693	22.99	0.14	20.98	125.31	3

**CHANNEL BANDWIDTH: 10MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133172	668	22.55	0.14	20.54	113.24	3
133272	678	22.31	0.14	20.3	107.15	3
133422	693	22.46	0.14	20.45	110.92	3

**CHANNEL BANDWIDTH: 10MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133172	668	21.33	0.14	19.32	85.51	3
133272	678	21.16	0.14	19.15	82.22	3
133422	693	21.28	0.14	19.27	84.53	3





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**CHANNEL BANDWIDTH: 15MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133197	670.5	23.1	0.14	21.09	128.53	3
133297	680.5	22.92	0.14	20.91	123.31	3
133397	690.5	23	0.14	20.99	125.6	3

**CHANNEL BANDWIDTH: 15MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133197	670.5	22.54	0.14	20.53	112.98	3
133297	680.5	22.32	0.14	20.31	107.4	3
133397	690.5	22.49	0.14	20.48	111.69	3

**CHANNEL BANDWIDTH: 15MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133197	670.5	21.36	0.14	19.35	86.1	3
133297	680.5	21.18	0.14	19.17	82.6	3
133397	690.5	21.24	0.14	19.23	83.75	3



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**CHANNEL BANDWIDTH: 20MHz QPSK**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133222	673	23.11	0.14	21.1	128.82	3
133322	683	22.94	0.14	20.93	123.88	3
133372	688	23.01	0.14	21	125.89	3

**CHANNEL BANDWIDTH: 20MHz 16QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133222	673	22.57	0.14	20.56	113.76	3
133322	683	22.38	0.14	20.37	108.89	3
133372	688	22.51	0.14	20.5	112.2	3

**CHANNEL BANDWIDTH: 20MHz 64QAM**

Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	ERP (dBm)	ERP (mW)	Limit (W)
133222	673	21.37	0.14	19.36	86.3	3
133322	683	21.2	0.14	19.19	82.99	3
133372	688	21.3	0.14	19.29	84.92	3



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Test Report No.: W7L-220214W001RF03

**LTE BAND CA\_7C**

**CHANNEL BANDWIDTH: 10MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20805	2505.5	20949	2519.9	23.17	1.69	24.86	306.2	2
21006	2525.6	21150	2540.0	23.17	1.69	24.86	306.2	2
21206	2545.6	21350	2560.0	23.19	1.69	24.88	307.61	2

**CHANNEL BANDWIDTH: 10MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20805	2505.5	20949	2519.9	22.62	1.69	24.31	269.77	2
21006	2525.6	21150	2540.0	22.61	1.69	24.3	269.15	2
21206	2545.6	21350	2560.0	22.31	1.69	24	251.19	2

**CHANNEL BANDWIDTH: 10MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20805	2505.5	20949	2519.9	21.78	1.69	23.47	222.33	2
21006	2525.6	21150	2540.0	21.53	1.69	23.22	209.89	2
21206	2545.6	21350	2560.0	21.74	1.69	23.43	220.29	2



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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 15MHz+10MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20945	2519.5	23.16	1.69	24.85	305.49	2
21051	2530.1	21171	2542.1	23.2	1.69	24.89	308.32	2
21227	2552.7	21397	2564.7	23.13	1.69	24.82	303.39	2

**CHANNEL BANDWIDTH: 15MHz+10MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20945	2519.5	22.62	1.69	24.31	269.77	2
21051	2530.1	21171	2542.1	22.57	1.69	24.26	266.69	2
21227	2552.7	21397	2564.7	22.35	1.69	24.04	253.51	2

**CHANNEL BANDWIDTH: 15MHz+10MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20945	2519.5	21.82	1.69	23.51	224.39	2
21051	2530.1	21171	2542.1	21.56	1.69	23.25	211.35	2
21227	2552.7	21397	2564.7	21.73	1.69	23.42	219.79	2



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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 15MHz+15MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20975	2522.5	23.15	1.69	24.84	304.79	2
21025	2527.5	21175	2542.5	23.13	1.69	24.82	303.39	2
21225	2547.5	21375	2562.5	23.15	1.69	24.84	304.79	2

**CHANNEL BANDWIDTH: 15MHz+15MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20975	2522.5	22.56	1.69	24.25	266.07	2
21025	2527.5	21175	2542.5	22.61	1.69	24.3	269.15	2
21225	2547.5	21375	2562.5	22.35	1.69	24.04	253.51	2

**CHANNEL BANDWIDTH: 15MHz+15MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20825	2507.5	20975	2522.5	21.83	1.69	23.52	224.91	2
21025	2527.5	21175	2542.5	21.5	1.69	23.19	208.45	2
21225	2547.5	21375	2562.5	21.77	1.69	23.46	221.82	2



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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 15MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20828	2507.8	20999	2524.9	23.21	1.69	24.9	309.03	2
21003	2525.3	21174	2542.4	23.15	1.69	24.84	304.79	2
21179	2542.9	21350	2560	23.2	1.69	24.89	308.32	2

**CHANNEL BANDWIDTH: 15MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20828	2507.8	20999	2524.9	22.6	1.69	24.29	268.53	2
21003	2525.3	21174	2542.4	22.61	1.69	24.3	269.15	2
21179	2542.9	21350	2560	22.36	1.69	24.05	254.1	2

**CHANNEL BANDWIDTH: 15MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20828	2507.8	20999	2524.9	21.83	1.69	23.52	224.91	2
21003	2525.3	21174	2542.4	21.5	1.69	23.19	208.45	2
21179	2542.9	21350	2560	21.74	1.69	23.43	220.29	2



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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 20MHz+10MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	20994	2524.4	23.19	1.69	24.88	307.61	2
21051	2530.1	21195	2544.5	23.19	1.69	24.88	307.61	2
21251	2550.1	21395	2564.5	23.14	1.69	24.83	304.09	2

**CHANNEL BANDWIDTH: 20MHz+10MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	20994	2524.4	22.63	1.69	24.32	270.4	2
21051	2530.1	21195	2544.5	22.56	1.69	24.25	266.07	2
21251	2550.1	21395	2564.5	22.37	1.69	24.06	254.68	2

**CHANNEL BANDWIDTH: 20MHz+10MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	20994	2524.4	21.79	1.69	23.48	222.84	2
21051	2530.1	21195	2544.5	21.57	1.69	23.26	211.84	2
21251	2550.1	21395	2564.5	21.76	1.69	23.45	221.31	2



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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 20MHz+15MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21021	2527.1	23.22	1.69	24.91	309.74	2
21026	2527.6	21197	2544.7	23.21	1.69	24.9	309.03	2
21201	2545.1	21372	2562.2	23.21	1.69	24.9	309.03	2

**CHANNEL BANDWIDTH: 20MHz+15MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21021	2527.1	22.64	1.69	24.33	271.02	2
21026	2527.6	21197	2544.7	22.62	1.69	24.31	269.77	2
21201	2545.1	21372	2562.2	22.39	1.69	24.08	255.86	2

**CHANNEL BANDWIDTH: 20MHz+15MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21021	2527.1	21.85	1.69	23.54	225.94	2
21026	2527.6	21197	2544.7	21.58	1.69	23.27	212.32	2
21201	2545.1	21372	2562.2	21.78	1.69	23.47	222.33	2





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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 20MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21048	2529.8	23.39	1.69	25.08	322.11	2
21001	2525.1	21199	2544.9	23.26	1.69	24.95	312.61	2
21152	2540.2	21350	2560.0	23.25	1.69	24.94	311.89	2

**CHANNEL BANDWIDTH: 20MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21048	2529.8	22.84	1.69	24.53	283.79	2
21001	2525.1	21199	2544.9	22.65	1.69	24.34	271.64	2
21152	2540.2	21350	2560.0	22.59	1.69	24.28	267.92	2

**CHANNEL BANDWIDTH: 20MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>C</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
20850	2510.0	21048	2529.8	21.83	1.69	23.52	224.91	2
21001	2525.1	21199	2544.9	21.65	1.69	23.34	215.77	2
21152	2540.2	21350	2560.0	21.85	1.69	23.54	225.94	2



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VERITAS**

Test Report No.: W7L-220214W001RF03

**LTE BAND CA\_66B**

**CHANNEL BANDWIDTH: 5MHz+5MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	132045	1717.3	22.88	3.09	25.97	395.37	1
132398	1752.6	132446	1757.4	22.92	3.09	26.01	399.02	1
132599	1772.7	132647	1777.5	22.74	3.09	25.83	382.82	1

**CHANNEL BANDWIDTH: 5MHz+5MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	132045	1717.3	22.03	3.09	25.12	325.09	1
132398	1752.6	132446	1757.4	21.87	3.09	24.96	313.33	1
132599	1772.7	132647	1777.5	22	3.09	25.09	322.85	1

**CHANNEL BANDWIDTH: 5MHz+5MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
131997	1712.5	132045	1717.3	20.97	3.09	24.06	254.68	1
132398	1752.6	132446	1757.4	20.98	3.09	24.07	255.27	1
132599	1772.7	132647	1777.5	20.97	3.09	24.06	254.68	1



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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 5MHz+10MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132000	1712.8	132072	1720	22.94	3.09	26.03	400.87	1
132375	1750.3	132447	1757.5	22.92	3.09	26.01	399.02	1
132550	1767.8	132622	1775	22.7	3.09	25.79	379.31	1

**CHANNEL BANDWIDTH: 5MHz+10MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132000	1712.8	132072	1720	21.98	3.09	25.07	321.37	1
132375	1750.3	132447	1757.5	21.9	3.09	24.99	315.5	1
132550	1767.8	132622	1775	21.97	3.09	25.06	320.63	1

**CHANNEL BANDWIDTH: 5MHz+10MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132000	1712.8	132072	1720	21.01	3.09	24.1	257.04	1
132375	1750.3	132447	1757.5	21.02	3.09	24.11	257.63	1
132550	1767.8	132622	1775	20.96	3.09	24.05	254.1	1



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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 5MHz+15MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132002	1713	132095	1722.3	22.92	3.09	26.01	399.02	1
132353	1748.1	132446	1757.4	22.92	3.09	26.01	399.02	1
132504	1763.2	132597	1772.5	22.75	3.09	25.84	383.71	1

**CHANNEL BANDWIDTH: 5MHz+15MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132002	1713	132095	1722.3	22.03	3.09	25.12	325.09	1
132353	1748.1	132446	1757.4	21.87	3.09	24.96	313.33	1
132504	1763.2	132597	1772.5	21.97	3.09	25.06	320.63	1

**CHANNEL BANDWIDTH: 5MHz+15MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132002	1713	132095	1722.3	20.99	3.09	24.08	255.86	1
132353	1748.1	132446	1757.4	21.03	3.09	24.12	258.23	1
132504	1763.2	132597	1772.5	20.96	3.09	24.05	254.1	1



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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 10MHz+5MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	132094	1722.2	22.95	3.09	26.04	401.79	1
132397	1752.5	132469	1759.7	22.87	3.09	25.96	394.46	1
132572	1770	132644	1777.2	22.76	3.09	25.85	384.59	1

**CHANNEL BANDWIDTH: 10MHz+5MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	132094	1722.2	21.99	3.09	25.08	322.11	1
132397	1752.5	132469	1759.7	21.94	3.09	25.03	318.42	1
132572	1770	132644	1777.2	21.99	3.09	25.08	322.11	1

**CHANNEL BANDWIDTH: 10MHz+5MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	132094	1722.2	21.03	3.09	24.12	258.23	1
132397	1752.5	132469	1759.7	20.97	3.09	24.06	254.68	1
132572	1770	132644	1777.2	20.98	3.09	24.07	255.27	1



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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 15MHz+5MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	132140	1726.8	22.96	3.09	26.05	402.72	1
132398	1752.6	132491	1761.9	22.93	3.09	26.02	399.94	1
132549	1767.7	132642	1777	22.78	3.09	25.87	386.37	1

**CHANNEL BANDWIDTH: 15MHz+5MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	132140	1726.8	22.05	3.09	25.14	326.59	1
132398	1752.6	132491	1761.9	21.95	3.09	25.04	319.15	1
132549	1767.7	132642	1777	22.01	3.09	25.1	323.59	1

**CHANNEL BANDWIDTH: 15MHz+5MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	132140	1726.8	21.05	3.09	24.14	259.42	1
132398	1752.6	132491	1761.9	21.04	3.09	24.13	258.82	1
132549	1767.7	132642	1777	21.02	3.09	24.11	257.63	1



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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 10MHz+10MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	132121	1724.9	23.01	3.09	26.1	407.38	1
132373	1750.1	132472	1760	23.03	3.09	26.12	409.26	1
132523	1765.1	132622	1775	22.85	3.09	25.94	392.64	1

**CHANNEL BANDWIDTH: 10MHz+10MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	132121	1724.9	22.16	3.09	25.25	334.97	1
132373	1750.1	132472	1760	21.99	3.09	25.08	322.11	1
132523	1765.1	132622	1775	22.06	3.09	25.15	327.34	1

**CHANNEL BANDWIDTH: 10MHz+10MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132022	1715	132121	1724.9	21.13	3.09	24.22	264.24	1
132373	1750.1	132472	1760	21.15	3.09	24.24	265.46	1
132523	1765.1	132622	1775	21.16	3.09	24.25	266.07	1



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**CHANNEL BANDWIDTH: 5MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132005	1713.3	132122	1725	23.02	3.09	26.11	408.32	1
132330	1745.8	132447	1757.5	22.9	3.09	25.99	397.19	1
132455	1758.3	132572	1770	23.01	3.09	26.1	407.38	1

**CHANNEL BANDWIDTH: 5MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132005	1713.3	132122	1725	22.2	3.09	25.29	338.06	1
132330	1745.8	132447	1757.5	22.36	3.09	25.45	350.75	1
132455	1758.3	132572	1770	22.39	3.09	25.48	353.18	1

**CHANNEL BANDWIDTH: 5MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132005	1713.3	132122	1725	21.73	3.09	24.82	303.39	1
132330	1745.8	132447	1757.5	21.57	3.09	24.66	292.42	1
132455	1758.3	132572	1770	21.63	3.09	24.72	296.48	1





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**CHANNEL BANDWIDTH: 10MHz+15MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132025	1715.3	132145	1727.3	22.99	3.09	26.08	405.51	1
132351	1747.9	132471	1759.9	22.91	3.09	26	398.11	1
132477	1760.5	132597	1772.5	22.98	3.09	26.07	404.58	1

**CHANNEL BANDWIDTH: 10MHz+15MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132025	1715.3	132145	1727.3	22.21	3.09	25.3	338.84	1
132351	1747.9	132471	1759.9	22.33	3.09	25.42	348.34	1
132477	1760.5	132597	1772.5	22.4	3.09	25.49	354	1

**CHANNEL BANDWIDTH: 10MHz+15MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-LC</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132025	1715.3	132145	1727.3	21.66	3.09	24.75	298.54	1
132351	1747.9	132471	1759.9	21.63	3.09	24.72	296.48	1
132477	1760.5	132597	1772.5	21.64	3.09	24.73	297.17	1



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**CHANNEL BANDWIDTH: 10MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132027	1715.5	132171	1729.9	22.97	3.09	26.06	403.65	1
132328	1745.6	132472	1760	22.9	3.09	25.99	397.19	1
132428	1755.6	132572	1770	23.01	3.09	26.1	407.38	1

**CHANNEL BANDWIDTH: 10MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132027	1715.5	132171	1729.9	22.19	3.09	25.28	337.29	1
132328	1745.6	132472	1760	22.36	3.09	25.45	350.75	1
132428	1755.6	132572	1770	22.38	3.09	25.47	352.37	1

**CHANNEL BANDWIDTH: 10MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132027	1715.5	132171	1729.9	21.73	3.09	24.82	303.39	1
132328	1745.6	132472	1760	21.57	3.09	24.66	292.42	1
132428	1755.6	132572	1770	21.6	3.09	24.69	294.44	1



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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 15MHz+10MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	132167	1729.5	22.96	3.09	26.05	402.72	1
132373	1750.1	132493	1762.1	22.94	3.09	26.03	400.87	1
132499	1762.7	132619	1774.7	23.02	3.09	26.11	408.32	1

**CHANNEL BANDWIDTH: 15MHz+10MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	132167	1729.5	22.17	3.09	25.26	335.74	1
132373	1750.1	132493	1762.1	22.33	3.09	25.42	348.34	1
132499	1762.7	132619	1774.7	22.38	3.09	25.47	352.37	1

**CHANNEL BANDWIDTH: 15MHz+10MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	132167	1729.5	21.7	3.09	24.79	301.3	1
132373	1750.1	132493	1762.1	21.63	3.09	24.72	296.48	1
132499	1762.7	132619	1774.7	21.59	3.09	24.68	293.76	1



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**CHANNEL BANDWIDTH: 15MHz+15MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	132197	1732.5	22.99	3.09	26.08	405.51	1
132347	1747.5	132497	1762.5	22.91	3.09	26	398.11	1
132447	1757.5	132597	1772.5	23.02	3.09	26.11	408.32	1

**CHANNEL BANDWIDTH: 15MHz+15MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	132197	1732.5	22.21	3.09	25.3	338.84	1
132347	1747.5	132497	1762.5	22.32	3.09	25.41	347.54	1
132447	1757.5	132597	1772.5	22.37	3.09	25.46	351.56	1

**CHANNEL BANDWIDTH: 15MHz+15MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132047	1717.5	132197	1732.5	21.66	3.09	24.75	298.54	1
132347	1747.5	132497	1762.5	21.6	3.09	24.69	294.44	1
132447	1757.5	132597	1772.5	21.57	3.09	24.66	292.42	1



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**CHANNEL BANDWIDTH: 15MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132050	1717.8	132221	1734.9	23.02	3.09	26.11	408.32	1
132325	1745.3	132496	1762.4	22.87	3.09	25.96	394.46	1
132401	1752.9	132572	1770	23.01	3.09	26.1	407.38	1

**CHANNEL BANDWIDTH: 15MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132050	1717.8	132221	1734.9	22.17	3.09	25.26	335.74	1
132325	1745.3	132496	1762.4	22.37	3.09	25.46	351.56	1
132401	1752.9	132572	1770	22.38	3.09	25.47	352.37	1

**CHANNEL BANDWIDTH: 15MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T</sub> -L <sub>c</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132050	1717.8	132221	1734.9	21.73	3.09	24.82	303.39	1
132325	1745.3	132496	1762.4	21.62	3.09	24.71	295.8	1
132401	1752.9	132572	1770	21.63	3.09	24.72	296.48	1



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**CHANNEL BANDWIDTH: 20MHz+5MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132189	1731.7	23.02	3.09	26.11	408.32	1
132397	1752.5	132514	1764.2	22.87	3.09	25.96	394.46	1
132522	1765	132639	1776.7	23.04	3.09	26.13	410.20	1

**CHANNEL BANDWIDTH: 20MHz+5MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132189	1731.7	22.15	3.09	25.24	334.2	1
132397	1752.5	132514	1764.2	22.32	3.09	25.41	347.54	1
132522	1765	132639	1776.7	22.39	3.09	25.48	353.18	1

**CHANNEL BANDWIDTH: 20MHz+5MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132189	1731.7	21.73	3.09	24.82	303.39	1
132397	1752.5	132514	1764.2	21.61	3.09	24.7	295.12	1
132522	1765	132639	1776.7	21.63	3.09	24.72	296.48	1



Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 20MHz+10MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132216	1734.4	22.98	3.09	26.07	404.58	1
132373	1750.1	132517	1764.5	22.94	3.09	26.03	400.87	1
132473	1760.1	132617	1774.5	23.03	3.09	26.12	409.26	1

**CHANNEL BANDWIDTH: 20MHz+10MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132216	1734.4	22.21	3.09	25.3	338.84	1
132373	1750.1	132517	1764.5	22.31	3.09	25.4	346.74	1
132473	1760.1	132617	1774.5	22.4	3.09	25.49	354	1

**CHANNEL BANDWIDTH: 20MHz+10MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132216	1734.4	21.68	3.09	24.77	299.92	1
132373	1750.1	132517	1764.5	21.63	3.09	24.72	296.48	1
132473	1760.1	132617	1774.5	21.62	3.09	24.71	295.8	1



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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 20MHz+15MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132243	1737.1	23.04	3.09	26.13	410.2	1
132348	1747.6	132519	1764.7	22.95	3.09	26.04	401.79	1
132423	1755.1	132594	1772.2	23.05	3.09	26.14	411.15	1

**CHANNEL BANDWIDTH: 20MHz+15MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132243	1737.1	22.23	3.09	25.32	340.41	1
132348	1747.6	132519	1764.7	22.38	3.09	25.47	352.37	1
132423	1755.1	132594	1772.2	22.44	3.09	25.53	357.27	1

**CHANNEL BANDWIDTH: 20MHz+15MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132243	1737.1	21.74	3.09	24.83	304.09	1
132348	1747.6	132519	1764.7	21.65	3.09	24.74	297.85	1
132423	1755.1	132594	1772.2	21.65	3.09	24.74	297.85	1





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Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 20MHz+20MHz QPSK**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132270	1739.8	23.14	3.09	26.23	419.76	1
132323	1745.1	132494	1764.9	23.04	3.09	26.13	410.2	1
132374	1750.2	132545	1770	23.09	3.09	26.18	414.95	1

**CHANNEL BANDWIDTH: 20MHz+20MHz 16QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132270	1739.8	22.38	3.09	25.47	352.37	1
132323	1745.1	132494	1764.9	22.58	3.09	25.67	368.98	1
132374	1750.2	132545	1770	22.52	3.09	25.61	363.92	1

**CHANNEL BANDWIDTH: 20MHz+20MHz 64QAM**

Channel	Frequency (MHz)	Channel	Frequency (MHz)	Conducted Power (dBm)	G <sub>T-Lc</sub> (dB)	EIRP (dBm)	EIRP (mW)	Limit (W)
132072	1720	132270	1739.8	21.84	3.09	24.93	311.17	1
132323	1745.1	132494	1764.9	21.75	3.09	24.84	304.79	1
132374	1750.2	132545	1770	21.8	3.09	24.89	308.32	1

**REMARKS:** ERP Output Power (dBm) = EIRP (dBm) -2.15(dB).

## 3.2 FREQUENCY STABILITY MEASUREMENT

### 3.2.1 LIMITS OF FREQUENCY STABILITY MEASUREMENT

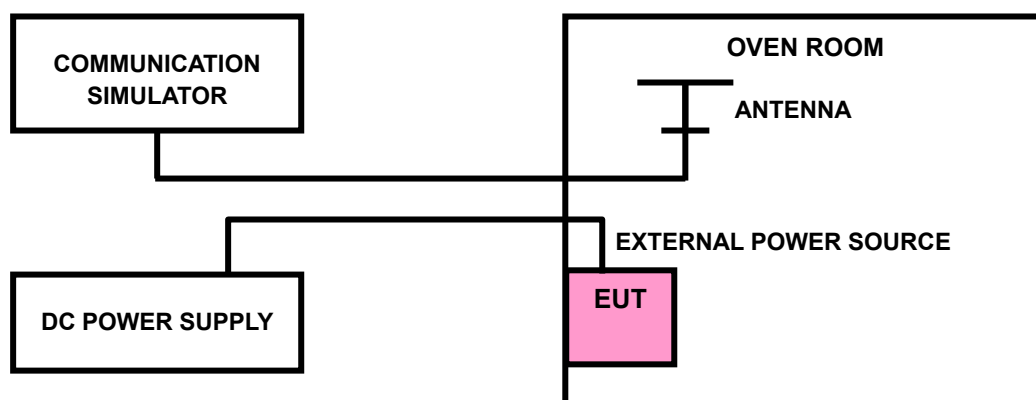
The frequency stability shall be sufficient to ensure that the fundamental emissions stay within the authorized bands of operation.

### 3.2.2 TEST PROCEDURE

- a. Device is placed at the oven room. The oven room could control the temperatures and humidity. Power warm up is at least 15 min and power applied should perform before recording frequency error.
- b. EUT is connected the external power supply to control the DC input power. The test voltage range is from minimum to maximum working voltage. Each step shall be record the frequency error rate.
- c. The temperature range step is 10 degrees in this test items. All temperature levels shall be hold the  $\pm 0.5^{\circ}\text{C}$  during the measurement testing. The each temperature step shall be at least 0.5 hours, consider the EUT could be test under the stability condition.

**NOTE:** The frequency error was recorded frequency error from the communication simulator.

### 3.2.3 TEST SETUP



### 3.2.4 TEST RESULTS

Please Refer to Appendix C Of this test report.

#### LTE BAND CA\_7C

LTE BAND CA_7C channel and Frequency List					
BW(MHz)	Channel/Frequncy(MHz)		Lowest	Middle	Highest
10+20	PCC	channel	20805	21006	21206
		Frequncy	2505.5	2525.6	2545.6
	SCC	channel	20949	21150	21350
		Frequncy	2519.9	2540	2560
15+10	PCC	channel	20825	21051	21277
		Frequncy	2507.5	2530.1	2552.7
	SCC	channel	20945	21171	21397
		Frequncy	2519.5	2542.1	2564.7
15+15	PCC	channel	20825	21025	21225
		Frequncy	2507.5	2527.5	2547.5
	SCC	channel	20975	21175	21375
		Frequncy	2522.5	2542.5	2562.5
15+20	PCC	channel	20828	21003	21179
		Frequncy	2507.8	2525.3	2542.9
	SCC	channel	20999	21174	21350
		Frequncy	2524.9	2542.4	2560
20+10	PCC	channel	20850	21051	21251
		Frequncy	2510	2530.1	2550.1
	SCC	channel	20994	21195	21395
		Frequncy	2524.4	2544.5	2564.5
20+15	PCC	channel	20850	21026	21201
		Frequncy	2510	2527.6	2545.1
	SCC	channel	21021	21197	21372
		Frequncy	2527.1	2544.7	2562.2
20+20	PCC	channel	20850	21001	21152
		Frequncy	2510	2525.1	2540.2
	SCC	channel	21048	21199	21350
		Frequncy	2529.8	2544.9	2560



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**LTE BAND CA\_66B**

LTE BAND CA_66B channel and Frequency List					
BW(MHz)	Channel/Frequncy(MHz)		Lowest	Middle	Highest
5+5	PCC	channel	131997	132398	132599
		Frequncy	1712.5	1752.6	1772.7
	SCC	channel	132045	132446	132647
		Frequncy	1717.3	1757.4	1777.5
5+10	PCC	channel	132000	132375	132550
		Frequncy	1712.8	1750.3	1767.8
	SCC	channel	132072	132447	132622
		Frequncy	1720	1757.5	1775
5+15	PCC	channel	132002	132353	132504
		Frequncy	1713	1748.1	1763.2
	SCC	channel	132095	132446	132597
		Frequncy	1722.3	1757.4	1772.5
10+5	PCC	channel	132022	132397	132572
		Frequncy	1715	1752.5	1770
	SCC	channel	132094	132469	132644
		Frequncy	1722.2	1759.7	1777.2
10+10	PCC	channel	132022	132373	132523
		Frequncy	1715	1750.1	1765.1
	SCC	channel	132121	132472	132622
		Frequncy	1724.9	1760	1775
15+5	PCC	channel	132047	132398	132549
		Frequncy	1717.5	1752.6	1767.7
	SCC	channel	132140	132491	132642
		Frequncy	1726.8	1761.9	1777



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LTE BAND CA\_66C

LTE BAND CA_66C channel and Frequency List					
BW(MHz)	Channel/Frequncy(MHz)		Lowest	Middle	Highest
5+20	PCC	channel	132005	132330	132455
		Frequncy	1713.3	1745.8	1758.3
	SCC	channel	132122	132447	132572
		Frequncy	1725	1757.5	1770
10+15	PCC	channel	132025	132351	132477
		Frequncy	1715.3	1747.9	1760.5
	SCC	channel	132145	132471	132597
		Frequncy	1727.3	1759.9	1772.5
10+20	PCC	channel	132027	132328	132428
		Frequncy	1715.5	1745.6	1755.6
	SCC	channel	132171	132472	132572
		Frequncy	1729.9	1760	1770
15+10	PCC	channel	132047	132373	132499
		Frequncy	1717.5	1750.1	1762.7
	SCC	channel	132167	132493	132619
		Frequncy	1729.5	1762.1	1774.7
15+15	PCC	channel	132047	132347	132447
		Frequncy	1717.5	1747.5	1757.5
	SCC	channel	132197	132497	132597
		Frequncy	1732.5	1762.5	1772.5
15+20	PCC	channel	132050	132325	132401
		Frequncy	1717.8	1745.3	1752.9
	SCC	channel	132221	132496	132572
		Frequncy	1734.9	1762.4	1770
20+5	PCC	channel	132072	132397	132522
		Frequncy	1720	1752.5	1765
	SCC	channel	132189	132514	132639
		Frequncy	1731.7	1764.2	1776.7
20+10	PCC	channel	132072	132373	132473
		Frequncy	1720	1750.1	1760.1
	SCC	channel	132216	132517	132617
		Frequncy	1734.4	1764.5	1774.5



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20+15	PCC	channel	132072	132348	132423
		Frequncy	1720	1747.6	1755.1
	SCC	channel	132243	132519	132594
		Frequncy	1737.1	1764.7	1772.2
20+20	PCC	channel	132072	132323	132374
		Frequncy	1720	1745.1	1750.2
	SCC	channel	132270	132521	132572
		Frequncy	1739.8	1764.9	1770

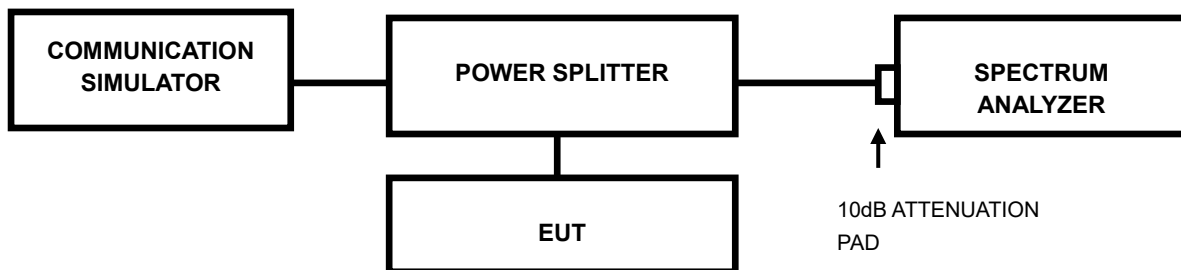


### 3.3 OCCUPIED BANDWIDTH MEASUREMENT

#### 3.3.1 LIMITS OF OCCUPIED BANDWIDTH MEASUREMENT

The width of a frequency band such that, below the lower and above the upper frequency limits, the mean powers emitted are each equal to a specified percentage 0.5 %of the total mean power of a given emission.

#### 3.3.2 TEST SETUP



#### 3.3.3 TEST PROCEDURES

- The conducted occupied bandwidth used the power splitter via EUT RF power connector between simulation base station and spectrum analyzer.
- Use OBW measurement function of Spectrum analyzer to measure 99 % occupied bandwidth.



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### 3.3.4 TEST RESULTS

Please Refer to Appendix C Of this test report.





### 3.4 BAND EDGE MEASUREMENT

#### 3.4.1 LIMITS OF BAND EDGE MEASUREMENT

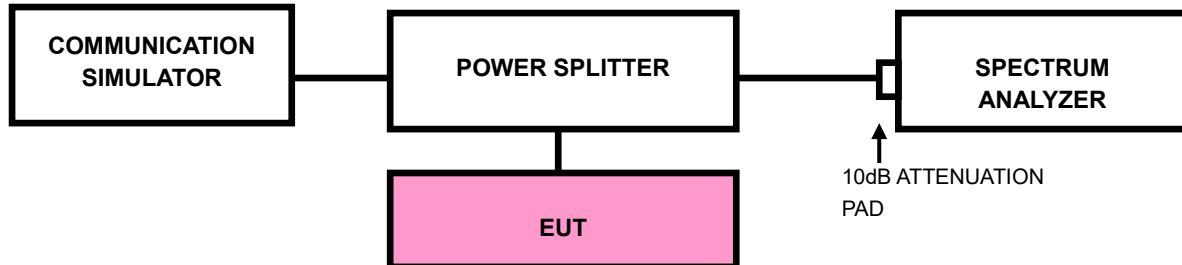
According to FCC 27.53(c) specified that For operations in the 746-758 MHz band and the 776-788 MHz band , the power of any emission shall be attenuated outside the band below the transmitter power (P) by at least  $43 + 10 \log (P)$  dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed. In addition, the power of any unwanted emission in an 6.25kHz bandwidth for all frequencies between 763-775 MHz and 793-806 MHz shall be attenuated below the transmitter power,  $P(\text{dBW})$ , by at least  $65 + 10 \log 10p(P)$ , dB, for mobile and portable equipment.

According to FCC 27.53(g) specified that For operations in the 600 MHz band and the 698-746 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB. However, in the 100 kilohertz bands immediately outside and adjacent to a licensee's frequency block, a resolution bandwidth of at least 30 kHz may be employed.

According to FCC 27.53(h) specified that For operations in the 1710-1755 MHz band, the power of any emission outside a licensee's frequency band(s) of operation shall be attenuated below the transmitter power (P) within the licensed band(s) of operation, measured in watts, by at least  $43 + 10 \log (P)$  dB. However, in the 1 megahertz bands immediately outside and adjacent to the licensee's frequency block, a resolution bandwidth of at least one percent of the emission bandwidth of the fundamental emission of the transmitter may be employed.

According to FCC 27.53(m)(4) specified that For mobile digital stations, the attenuation factor shall be not less than  $40 + 10 \log (P)$  dB on all frequencies between the channel edge and 5 megahertz from the channel edge,  $43 + 10 \log (P)$  dB on all frequencies between 5 megahertz and X megahertz from the channel edge, and  $55 + 10 \log (P)$  dB on all frequencies more than X megahertz from the channel edge, where X is the greater of 6 megahertz or the actual emission bandwidth as defined in paragraph (m)(6) of this section. In addition, the attenuation factor shall not be less that  $43 + 10 \log (P)$  dB on all frequencies between 2490.5 MHz and 2496 MHz and  $55 + 10 \log (P)$  dB at or below 2490.5 MHz. Mobile Satellite Service licensees operating on frequencies below 2495 MHz may also submit a documented interference complaint against BRS licensees operating on channel BRS Channel 1 on the same terms and conditions as adjacent channel BRS or EBS licensees. For mobile digital stations, in the 1 megahertz bands immediately outside and adjacent to the frequency block a resolution bandwidth of at least two percent may be employed.

### 3.4.2 TEST SETUP



### 3.4.3 TEST PROCEDURES

- a. All measurements were done at low and high operational frequency range.
- b. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz.  
RBW of the spectrum is 10kHz and VBW of the spectrum is 30kHz (LTE bandwidth for (1.4M/3M/5M/10M/15M/20M)1RB/0RB&1RB/MAXRB).
- c. The center frequency of spectrum is the band edge frequency and span is 10MHz.  
RBW of the spectrum is 100kHz and VBW of the spectrum is 300kHz (WCDMA).
- d. The center frequency of spectrum is the band edge frequency and span is 1~5 MHz.  
RBW of the spectrum is  $\geq 1\% \cdot \text{EBW}$  kHz and VBW of the spectrum is  $3 \cdot \text{RBW}$  kHz.  
(LTE bandwidth 1.4M/3M/5M/10M/15M/20MHz).
- e. Record the max trace plot into the test report.



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### 3.4.4 TEST RESULTS

Please Refer to Appendix C Of this test report.

### 3.5 CONDUCTED SPURIOUS EMISSIONS

#### 3.5.1 LIMITS OF CONDUCTED SPURIOUS EMISSIONS MEASUREMENT

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

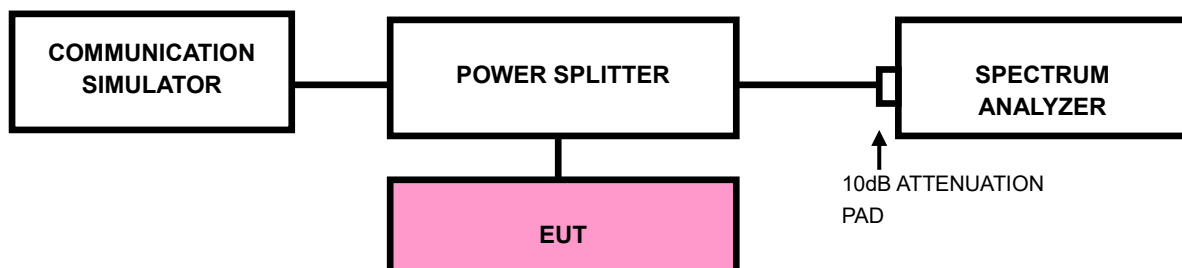
For: LTE Band7&7C

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $55 + 10 \log_{10}(P)$  dB. The limit of emission is equal to  $-25\text{dBm}$ .

#### 3.5.2 TEST PROCEDURE

- a. The EUT makes a phone call to the communication simulator. All measurements were done at low, middle and high operational frequency range.
- b. Measuring frequency range is from 30MHz up to a frequency including its 10<sup>th</sup> harmonic. 10dB attenuation pad is connected with spectrum. RBW=1MHz and VBW=3MHz is used for conducted emission measurement.

#### 3.5.3 TEST SETUP





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### 3.5.4 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

Please Refer to Appendix C Of this test report.



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### 3.6 RADIATED EMISSION MEASUREMENT

#### 3.6.1 LIMITS OF RADIATED EMISSION MEASUREMENT

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

For: LTE Band7/7C

The power of any emission outside a licensee's frequency block shall be attenuated below the transmitter power (P) by at least  $55 + 10 \log_{10}(P)$  dB. The limit of emission is equal to  $-25\text{dBm}$ .

#### 3.6.2 TEST PROCEDURES

- a. Substitution method is used for E.I.R.P measurement. In the semi-anechoic chamber, EUT placed on the 0.8m height of Turn Table, rotated the table around 360 degrees to search the maximum radiation power and receiver antenna shall be rotated vertical and horizontal polarization and moved height from 1m to 4m to find the maximum polar radiated power. The "Read Value" is the spectrum reading the maximum power value.
- b. The substitution horn antenna is substituted for EUT at the same position and signals generator export the CW signal to the substitution antenna via a TX cable. Rotated the Turn Table and moved receiving antenna to find the maximum radiation power. Adjust output power level of S.G to get a Value of spectrum reading equal to "Read Value " of step a. Record the power level of S.G.
- c.  $\text{EIRP} = \text{Output power level of S.G} - \text{TX cable loss} + \text{Antenna gain of substitution horn}$ .
- d. E.R.P power can be calculated form E.I.R.P power by subtracting the gain of dipole,  $\text{E.R.P power} = \text{E.I.P.R power} - 2.15\text{dBi}$ .

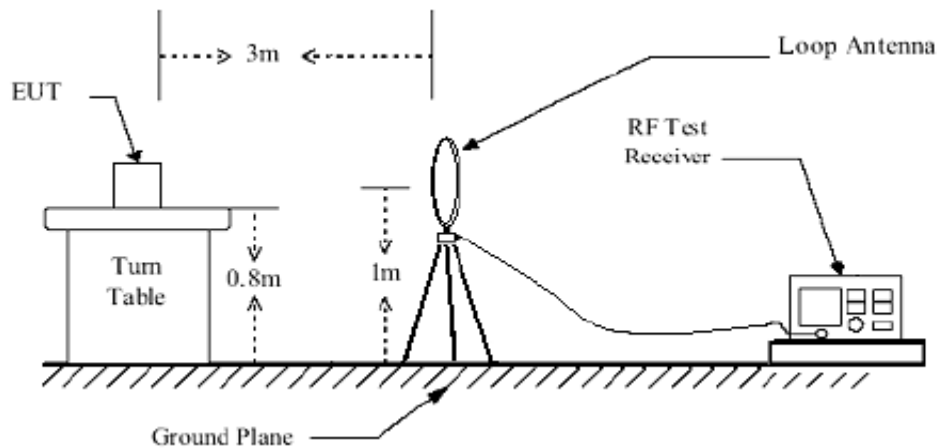
**NOTE:** The resolution bandwidth of spectrum analyzer is 1 MHz and the video bandwidth is 3 MHz.

#### 3.6.3 DEVIATION FROM TEST STANDARD

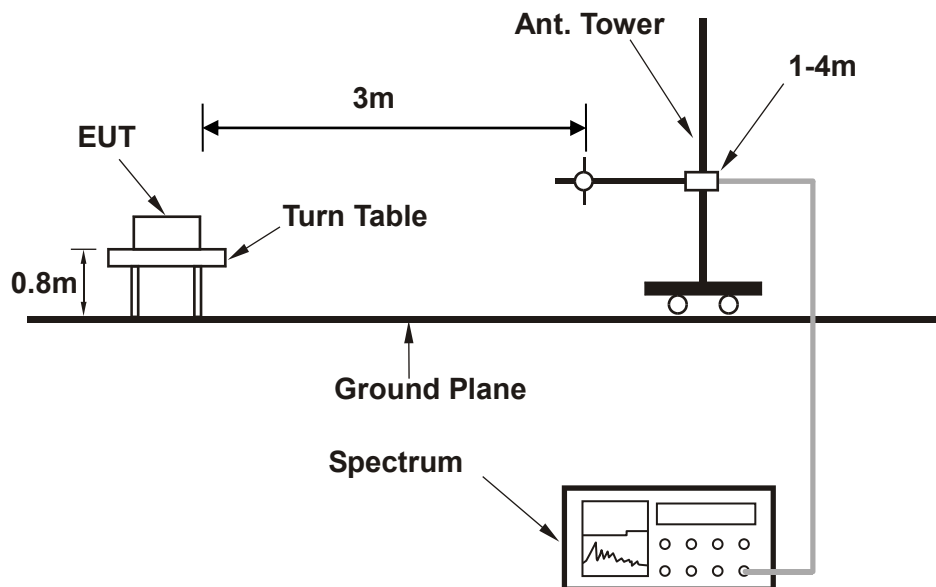
No deviation

### 3.6.4 TEST SETUP

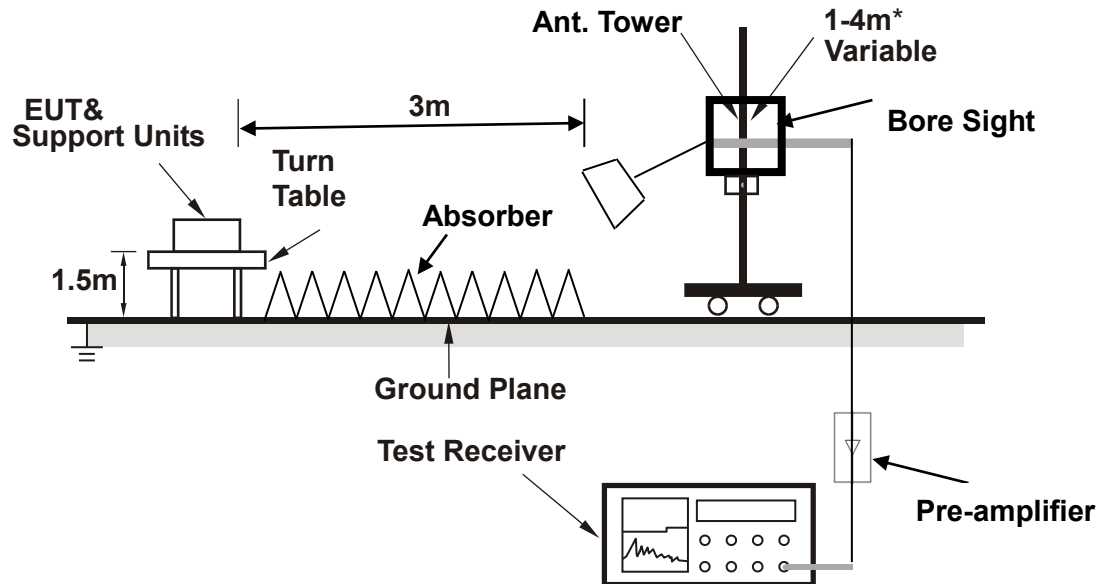
#### < Frequency Range below 30MHz >



#### < Frequency Range 30MHz~1GHz >



<Frequency Range above 1GHz>



**Note:** Above 1G is a directional antenna depends on the EUT height and the antenna 3dB beamwidth both, refer to section 7.3 of CISPR 16-2-3.

For the actual test configuration, please refer to the attached file (Test Setup Photo).





3.6.5 TEST RESULTS

NOTE : The 9K~30MHz amplitude of spurious emissions attenuated more than 20 dB below the permissible value is not required in the report.

BELOW 1GHz WORST-CASE DATA

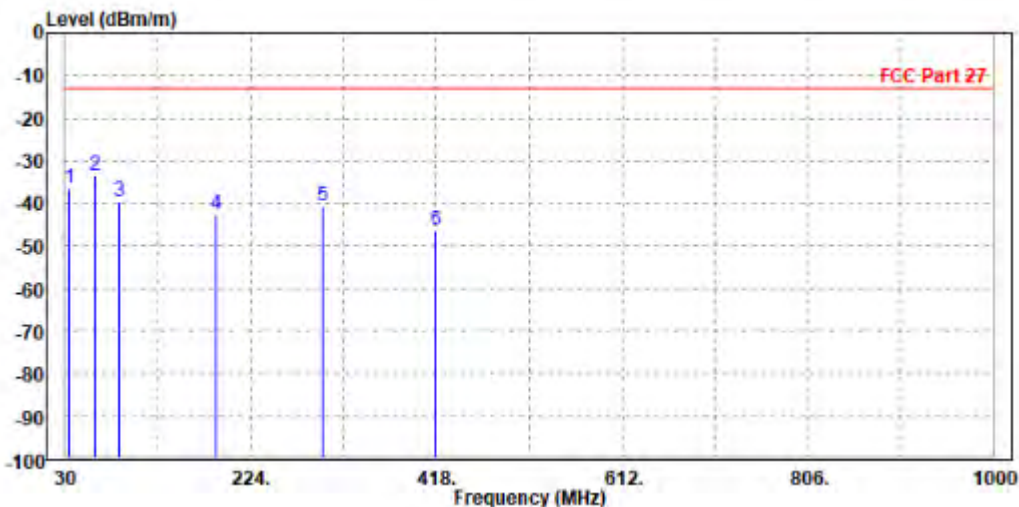
30 MHz – 1GHz data:

LTE Band 13

CHANNEL BANDWIDTH: 10MHz / QPSK

MODE	TX channel 23230	FREQUENCY RANGE	Below 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	34.850	-36.57	-55.23	-13.00	-23.57	18.66	Peak	Horizontal
2	61.040	-33.43	-42.47	-13.00	-20.43	9.04	Peak	Horizontal
3	87.230	-39.56	-48.13	-13.00	-26.56	8.57	Peak	Horizontal
4	188.110	-42.50	-53.86	-13.00	-29.50	11.36	Peak	Horizontal
5	299.660	-40.52	-54.52	-13.00	-27.52	14.00	Peak	Horizontal
6	418.000	-46.28	-62.82	-13.00	-33.28	16.54	Peak	Horizontal

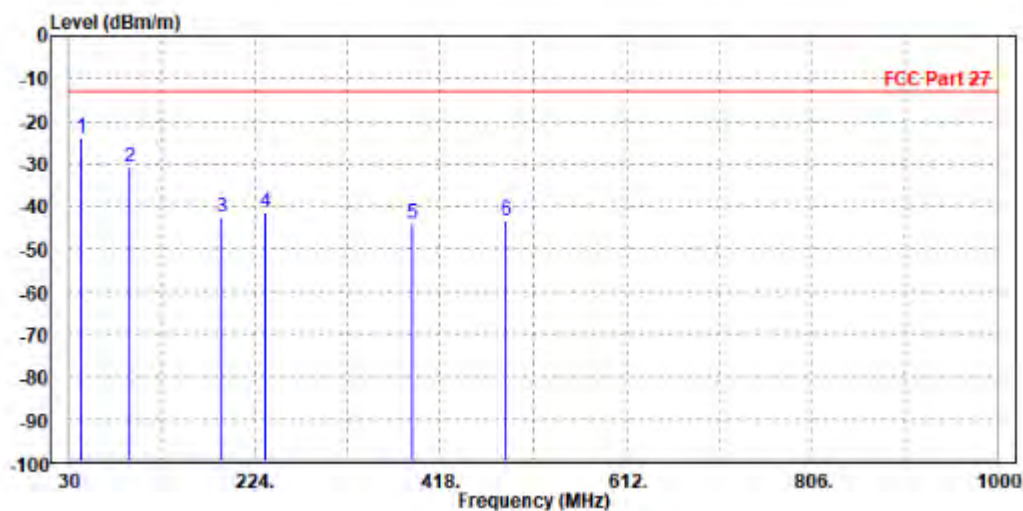




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<b>MODE</b>	TX channel 23230	<b>FREQUENCY RANGE</b>	Below 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP	42.610	-24.04	-35.87	-13.00	-11.04	11.83 Peak	Vertical
2		94.020	-30.68	-39.48	-13.00	-17.68	8.80 Peak	Vertical
3		189.080	-42.55	-53.89	-13.00	-29.55	11.34 Peak	Vertical
4		235.640	-41.61	-53.89	-13.00	-28.61	12.28 Peak	Vertical
5		387.930	-43.94	-59.96	-13.00	-30.94	16.02 Peak	Vertical
6		486.870	-43.46	-60.89	-13.00	-30.46	17.43 Peak	Vertical





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ABOVE 1GHz

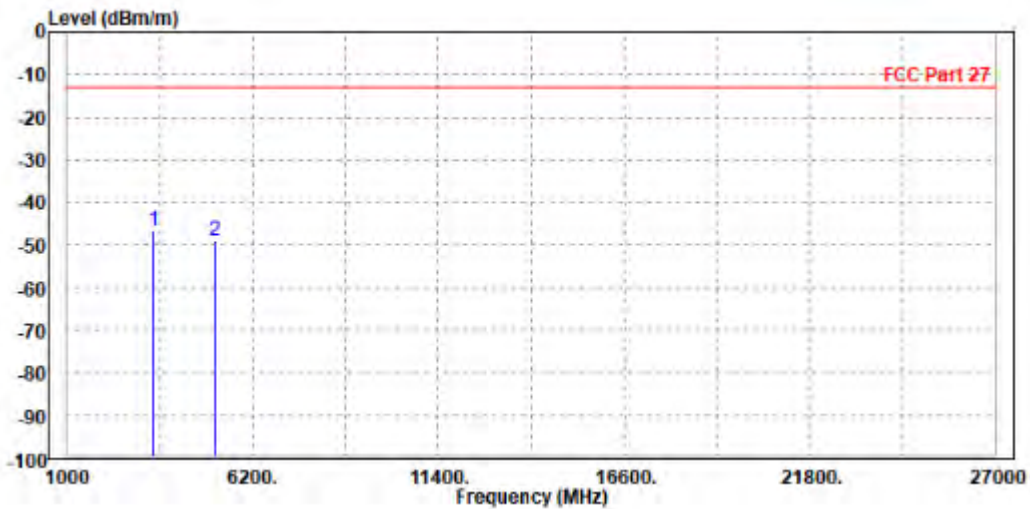
Note: For higher frequency, the emission is too low to be detected.

WCDMA Band IV:

CH 1312

MODE	TX channel 1312	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3418.000	-46.92	-55.51	-13.00	-33.92	8.59	Peak	Horizontal
2	5137.200	-49.03	-57.97	-13.00	-36.03	8.94	Peak	Horizontal

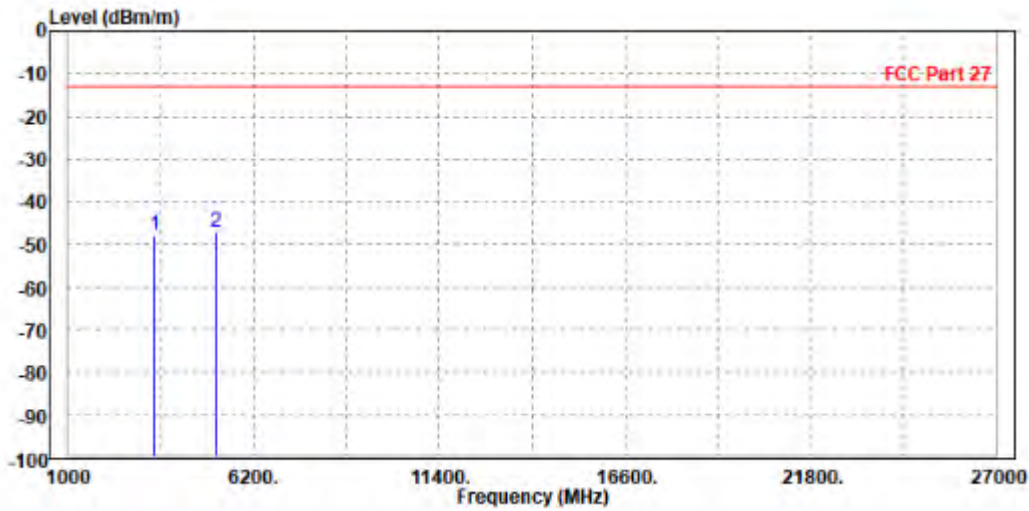




Test Report No.: W7L-220214W001RF03

<b>MODE</b>	TX channel 1312	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3418.000	-47.73	-56.84	-13.00	-34.73	9.11	Peak	Vertical
2 PP	5137.200	-47.13	-56.98	-13.00	-34.13	9.85	Peak	Vertical



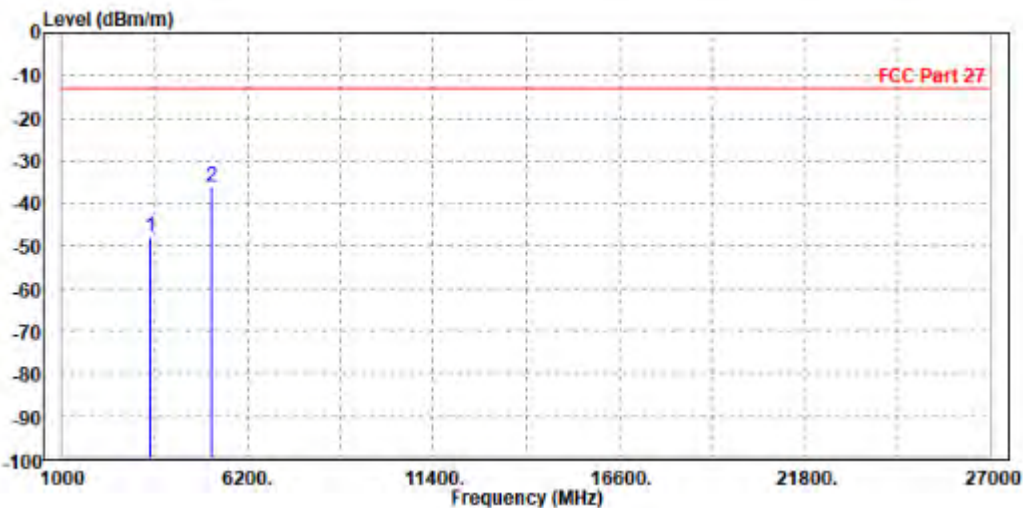


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CH 1413

<b>MODE</b>	TX channel 1413	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-47.73	-56.31	-13.00	-34.73	8.58	Peak	Horizontal
2 PP	5197.800	-36.24	-45.36	-13.00	-23.24	9.12	Peak	Horizontal

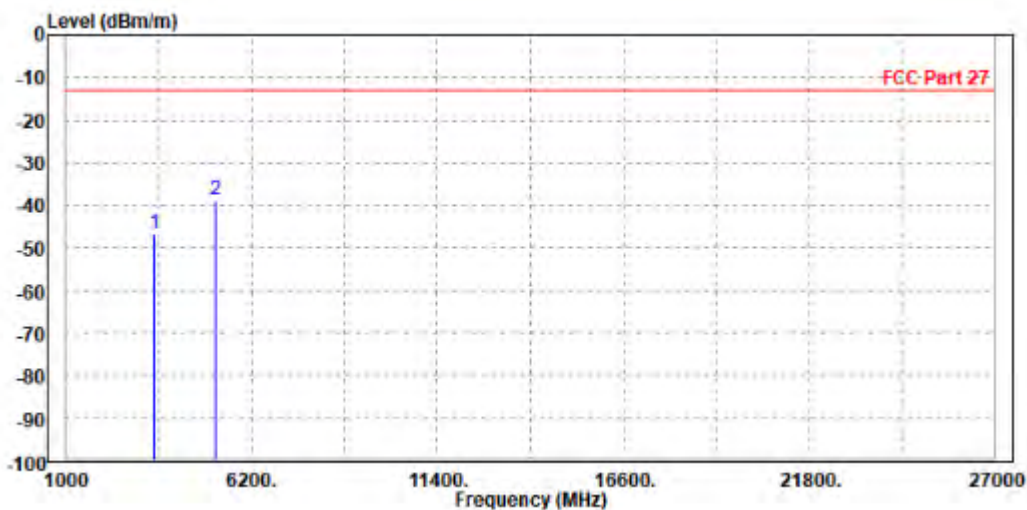




Test Report No.: W7L-220214W001RF03

<b>MODE</b>	TX channel 1413	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-46.88	-56.04	-13.00	-33.88	9.16	Peak	Vertical
2 PP	5197.800	-38.85	-48.67	-13.00	-25.85	9.82	Peak	Vertical



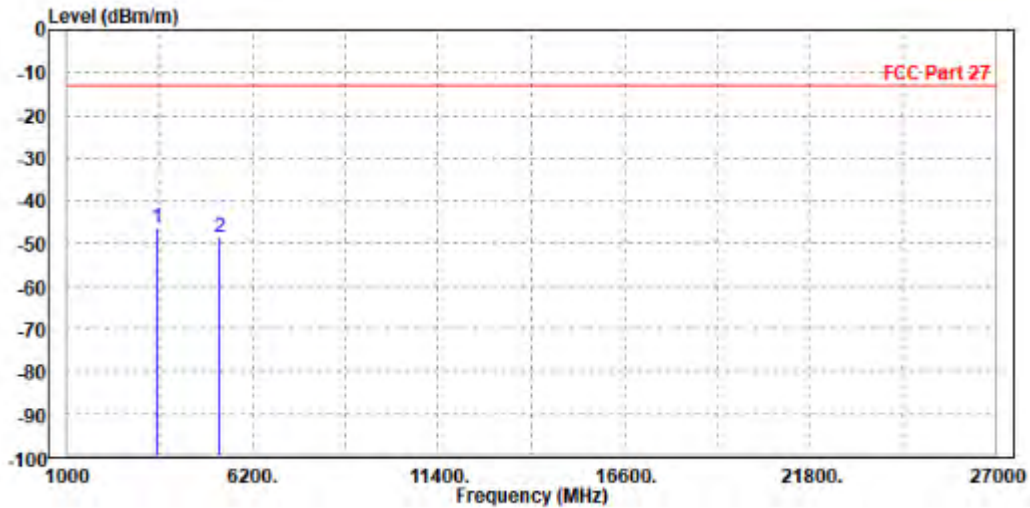


Test Report No.: W7L-220214W001RF03

CH 1513

<b>MODE</b>	TX channel 1513	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1 PP	3496.000	-46.26	-54.83	-13.00	-33.26	8.57	Peak	Horizontal
2	5257.800	-48.59	-57.89	-13.00	-35.59	9.30	Peak	Horizontal

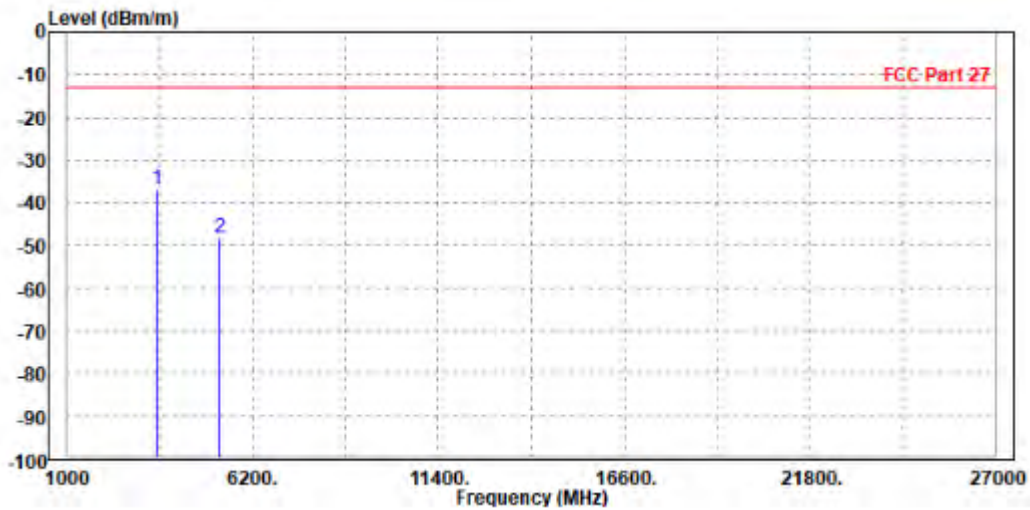




Test Report No.: W7L-220214W001RF03

<b>MODE</b>	TX channel 1513	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3496.000	-37.01	-46.20	-13.00	-24.01	9.19	Peak	Vertical
2	5257.800	-48.18	-57.98	-13.00	-35.18	9.80	Peak	Vertical







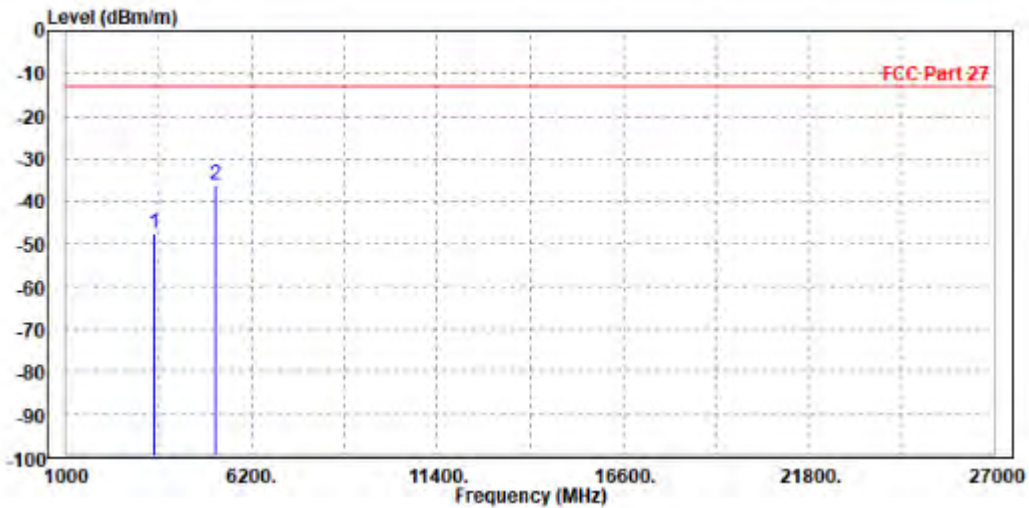
**BUREAU  
VERITAS**

Test Report No.: W7L-220214W001RF03

**LTE Band 4  
CHANNEL BANDWIDTH: 1.4MHz / QPSK  
CH 20175**

<b>MODE</b>	TX channel 20175	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-47.46	-56.04	-13.00	-34.46	8.58	Peak	Horizontal
2 PP	5197.500	-36.14	-45.26	-13.00	-23.14	9.12	Peak	Horizontal

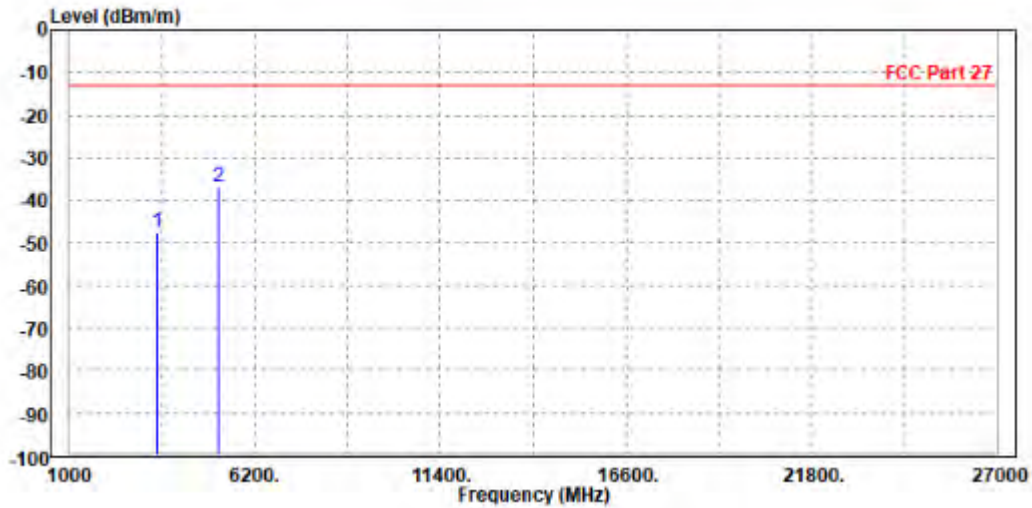




Test Report No.: W7L-220214W001RF03

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3465.000	-47.36	-56.52	-13.00	-34.36	9.16	Peak	Vertical
2 PP	5186.000	-36.87	-46.70	-13.00	-23.87	9.83	Peak	Vertical





BUREAU VERITAS

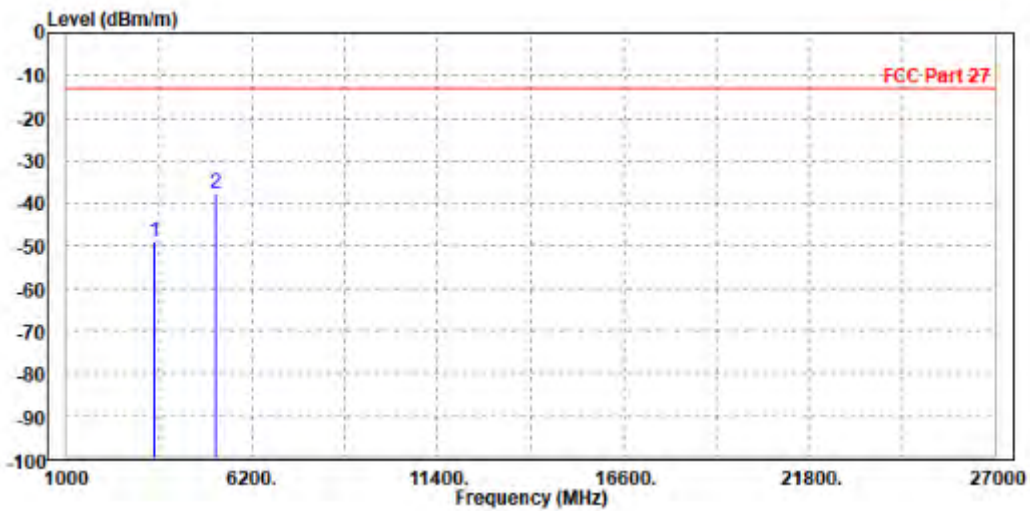
Test Report No.: W7L-220214W001RF03

CHANNEL BANDWIDTH: 3MHz / QPSK

CH 20175

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
ANTENNA POLARITY & TEST DISTANCE: HORIZONTAL AT 3 M			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3465.000	-49.10	-57.68	-13.00	-36.10	8.58	Peak	Horizontal
2 PP	5186.000	-37.62	-46.70	-13.00	-24.62	9.08	Peak	Horizontal

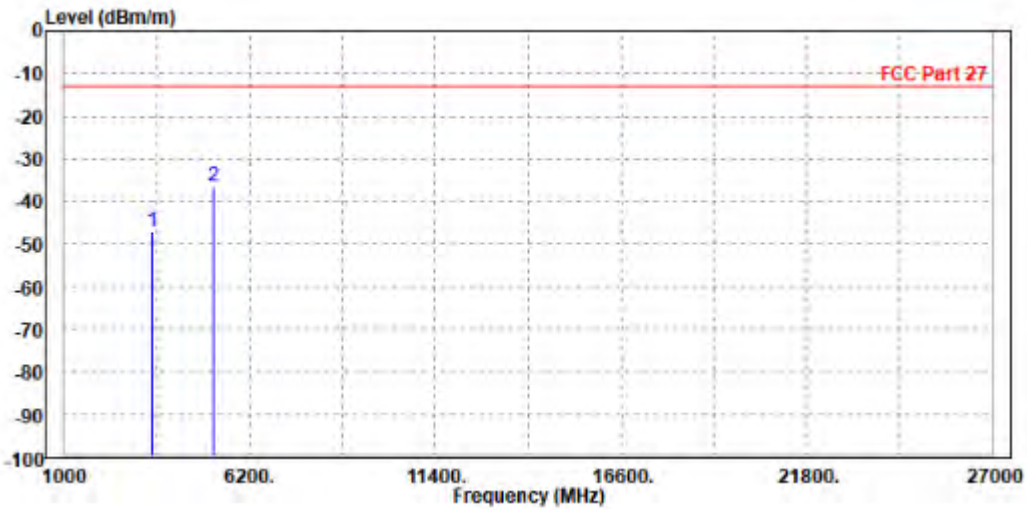




Test Report No.: W7L-220214W001RF03

<b>MODE</b>	TX channel 20175	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-47.01	-56.17	-13.00	-34.01	9.16	Peak	Vertical
2	PP 5197.500	-36.60	-46.42	-13.00	-23.60	9.82	Peak	Vertical





**BUREAU  
VERITAS**

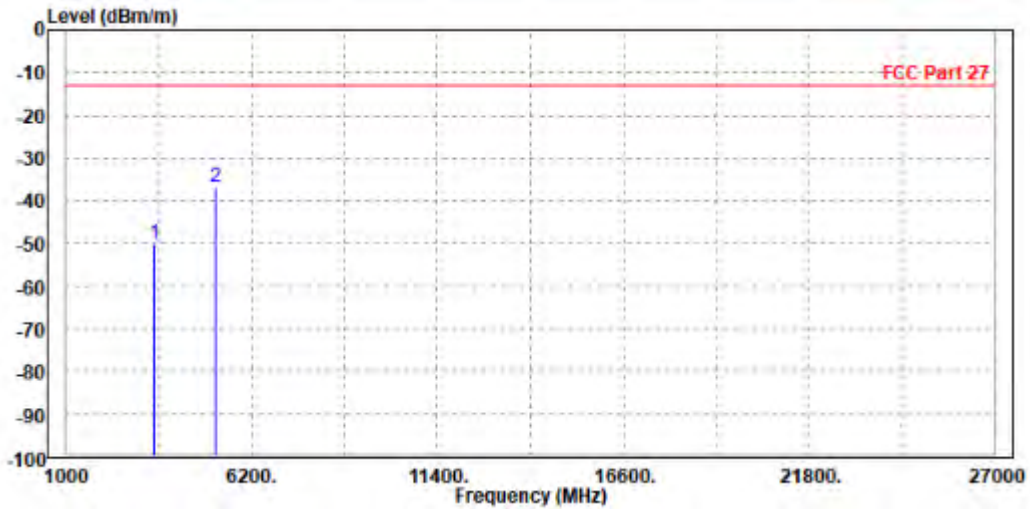
Test Report No.: W7L-220214W001RF03

CHANNEL BANDWIDTH: 5MHz / QPSK

CH 20175

<b>MODE</b>	TX channel 20175	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-50.38	-58.96	-13.00	-37.38	8.58	Peak	Horizontal
2	PP 5197.500	-36.94	-46.06	-13.00	-23.94	9.12	Peak	Horizontal

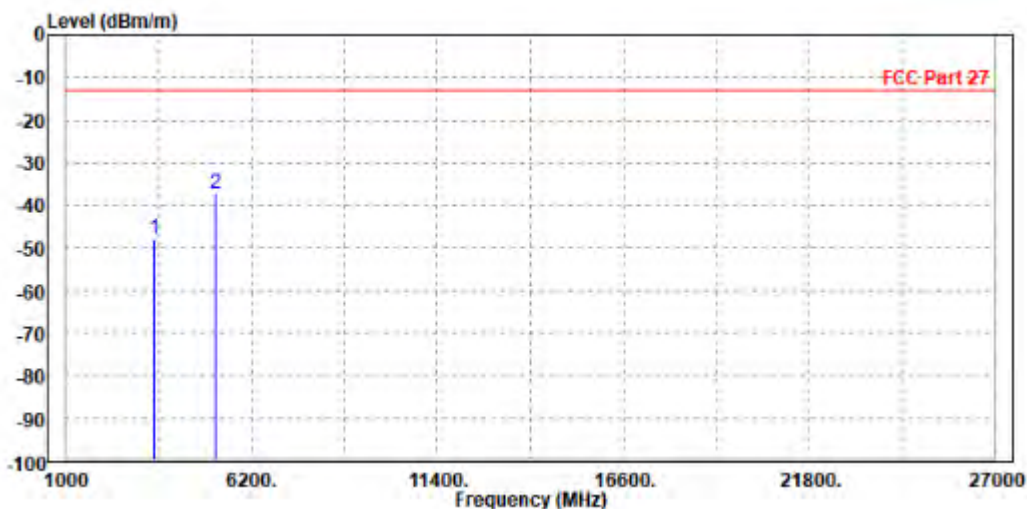




Test Report No.: W7L-220214W001RF03

<b>MODE</b>	TX channel 20175	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3465.000	-47.74	-56.90	-13.00	-34.74	9.16	Peak	Vertical
2 PP	5186.000	-37.42	-47.25	-13.00	-24.42	9.83	Peak	Vertical





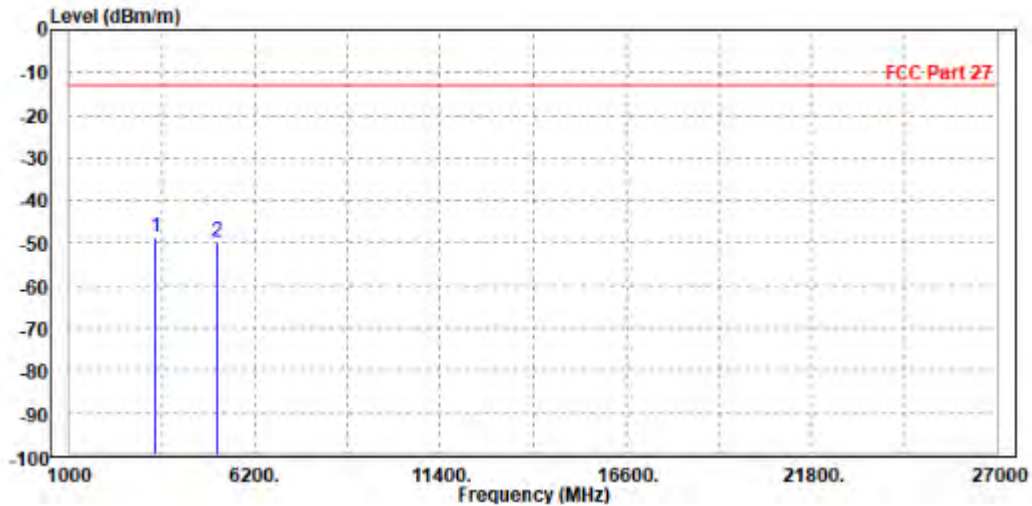
**BUREAU  
VERITAS**

Test Report No.: W7L-220214W001RF03

**CHANNEL BANDWIDTH: 10MHz / QPSK  
CH20000**

<b>MODE</b>	TX channel 20000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3418.000	-48.59	-57.18	-13.00	-35.59	8.59	Peak	Horizontal
2	5145.000	-49.92	-58.88	-13.00	-36.92	8.96	Peak	Horizontal

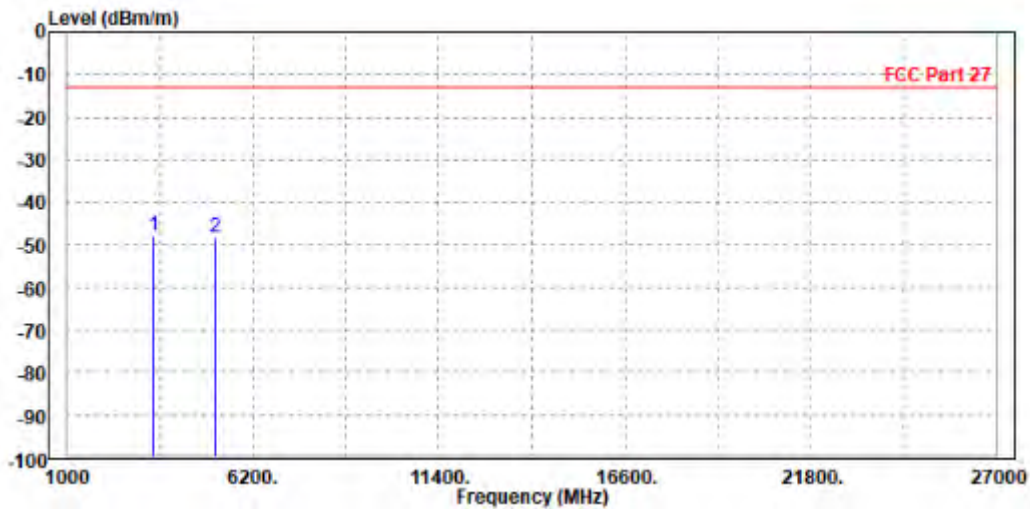




Test Report No.: W7L-220214W001RF03

<b>MODE</b>	TX channel 20000	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

		Read	Limit	Over			
	Freq	Level	Level	Line	Limit	Factor	Remark
	MHz	dBm/m	dBm	dBm/m	dB	dB/m	Pol/Phase
1	PP 3418.000	-47.72	-56.83	-13.00	-34.72	9.11	Peak Vertical
2	5145.000	-48.25	-58.09	-13.00	-35.25	9.84	Peak Vertical







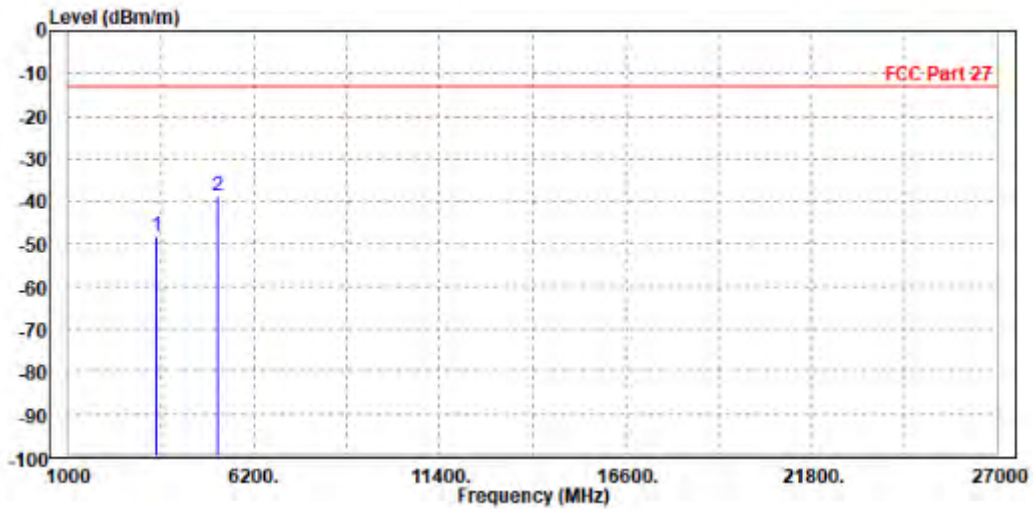
BUREAU VERITAS

Test Report No.: W7L-220214W001RF03

CH20175

MODE	TX channel 20175	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3465.000	-48.38	-56.96	-13.00	-35.38	8.58	Peak	Horizontal
2 PP	5186.000	-38.87	-47.95	-13.00	-25.87	9.08	Peak	Horizontal

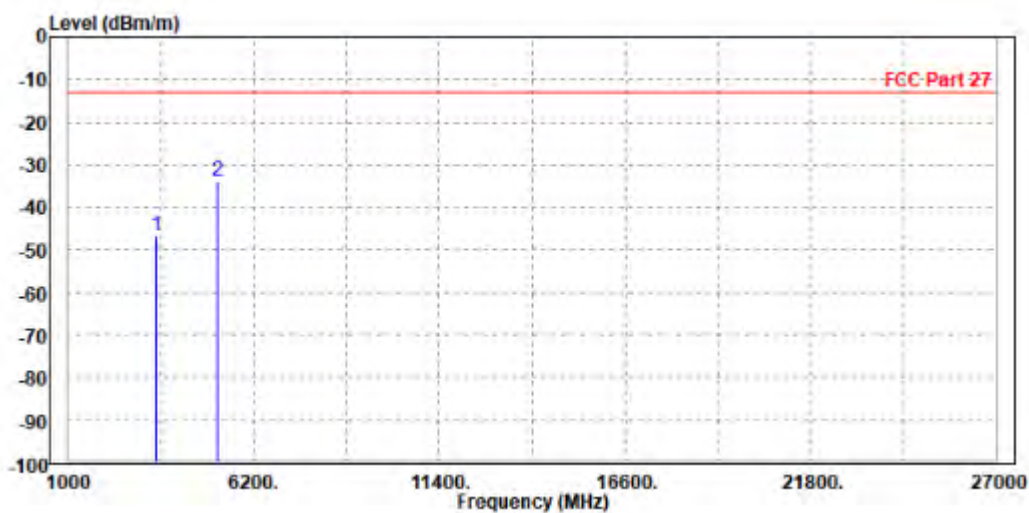




Test Report No.: W7L-220214W001RF03

<b>MODE</b>	TX channel 20175	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-46.91	-56.07	-13.00	-33.91	9.16	Peak	Vertical
2 PP	5197.500	-33.80	-43.62	-13.00	-20.80	9.82	Peak	Vertical





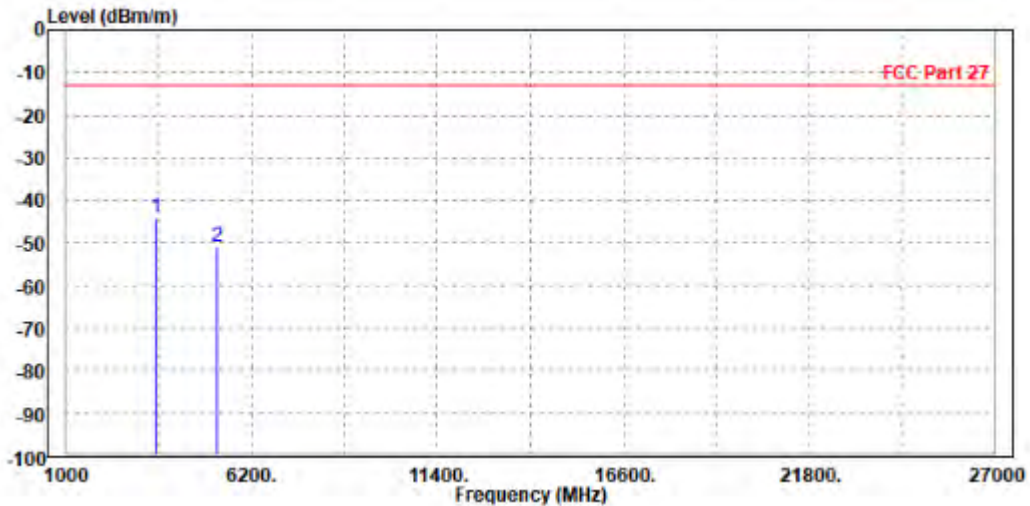
BUREAU VERITAS

Test Report No.: W7L-220214W001RF03

CH20350

MODE	TX channel 20350	FREQUENCY RANGE	Above 1000MHz
ENVIRONMENTAL CONDITIONS	23deg. C, 70%RH	INPUT POWER	EUT 4.0V
TESTED BY	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3496.000	-43.96	-52.53	-13.00	-30.96	8.57	Peak	Horizontal
2	5250.000	-50.78	-60.05	-13.00	-37.78	9.27	Peak	Horizontal

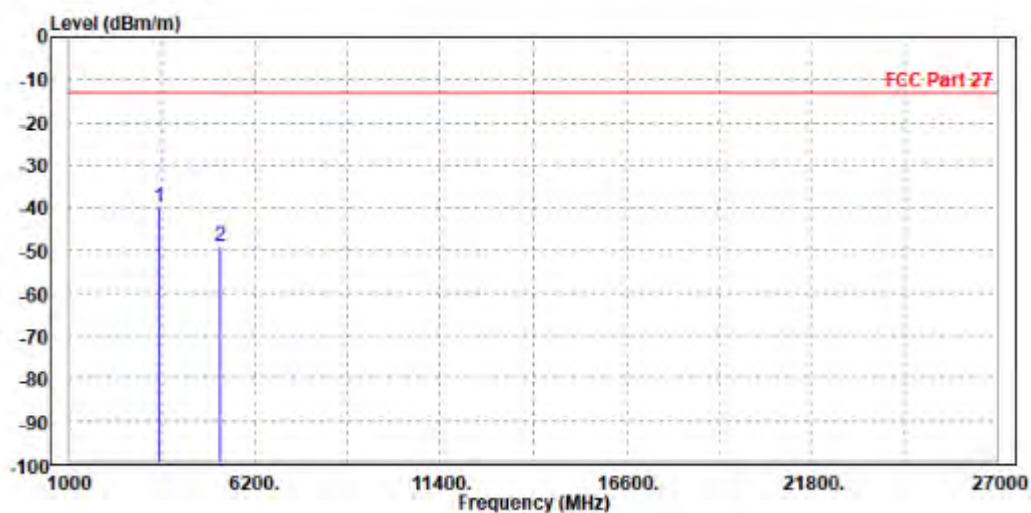




Test Report No.: W7L-220214W001RF03

<b>MODE</b>	TX channel 20350	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3496.000	-39.93	-49.12	-13.00	-26.93	9.19	Peak	Vertical
2	5250.000	-48.93	-58.73	-13.00	-35.93	9.80	Peak	Vertical





**BUREAU  
VERITAS**

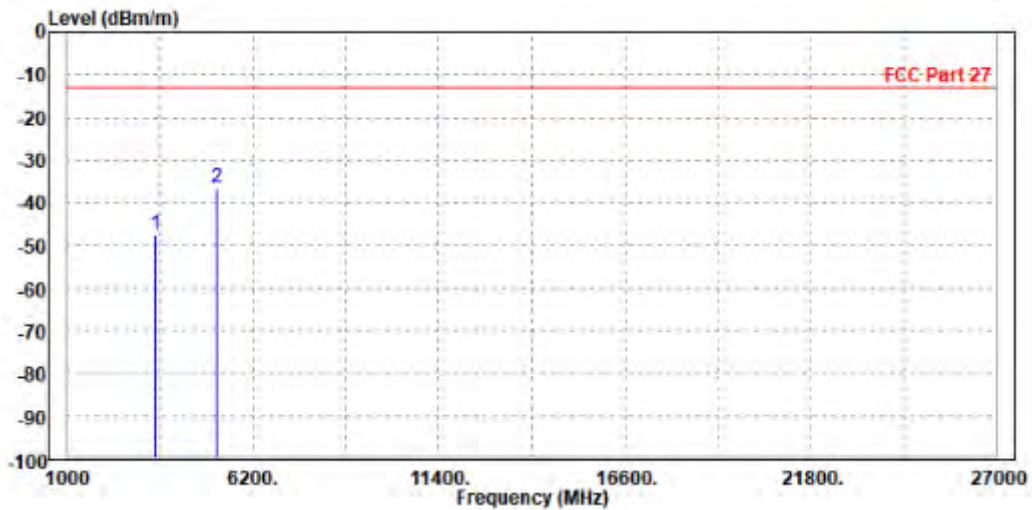
**Test Report No.: W7L-220214W001RF03**

**CHANNEL BANDWIDTH: 15MHz / QPSK**

**CH20175**

<b>MODE</b>	TX channel 20175	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3465.000	-47.35	-55.93	-13.00	-34.35	8.58	Peak	Horizontal
2 PP	5186.000	-36.54	-45.62	-13.00	-23.54	9.08	Peak	Horizontal

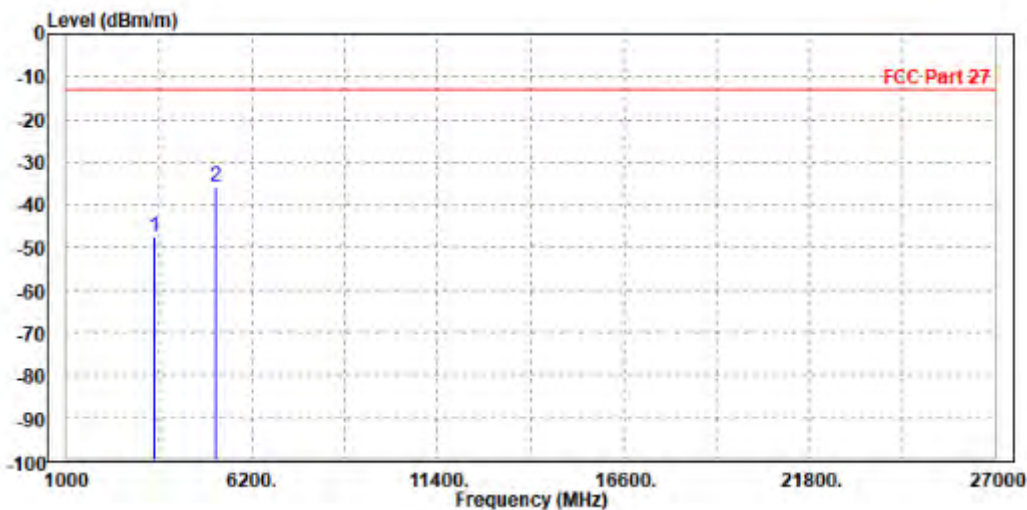




Test Report No.: W7L-220214W001RF03

<b>MODE</b>	TX channel 20175	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3470.000	-47.36	-56.52	-13.00	-34.36	9.16	Peak	Vertical
2 PP	5197.500	-35.74	-45.56	-13.00	-22.74	9.82	Peak	Vertical





**BUREAU  
VERITAS**

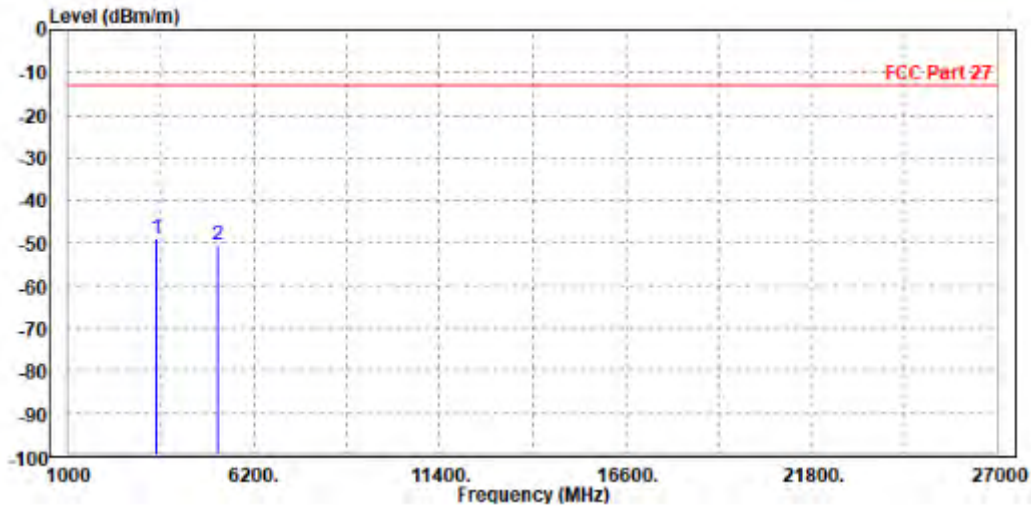
Test Report No.: W7L-220214W001RF03

CHANNEL BANDWIDTH: 20MHz / QPSK

CH 20175

<b>MODE</b>	TX channel 20175	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: HORIZONTAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	PP 3470.000	-49.11	-57.69	-13.00	-36.11	8.58	Peak	Horizontal
2	5197.500	-50.56	-59.68	-13.00	-37.56	9.12	Peak	Horizontal





Test Report No.: W7L-220214W001RF03

<b>MODE</b>	TX channel 20175	<b>FREQUENCY RANGE</b>	Above 1000MHz
<b>ENVIRONMENTAL CONDITIONS</b>	23deg. C, 70%RH	<b>INPUT POWER</b>	EUT 4.0V
<b>TESTED BY</b>	Jace Hu		
<b>ANTENNA POLARITY &amp; TEST DISTANCE: VERTICAL AT 3 M</b>			

	Freq	Level	Read Level	Limit Line	Over Limit	Factor	Remark	Pol/Phase
	MHz	dBm/m	dBm	dBm/m	dB	dB/m		
1	3465.000	-46.97	-56.13	-13.00	-33.97	9.16	Peak	Vertical
2 PP	5186.000	-35.01	-44.84	-13.00	-22.01	9.83	Peak	Vertical

