

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

**LTE Band 17
1 RF Power Output**

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	706.5	23755	5	1	0	23.74
				1	24	23.61
				12	6	22.35
				25	0	22.36
	710	23790		1	0	23.56
				1	24	23.60
				12	6	22.31
				25	0	22.40
	713.5	23825		1	0	23.68
				1	24	23.55
				12	6	22.36
				25	0	22.36
16QAM	706.5	23755	5	1	0	22.24
				1	24	22.06
				12	6	21.22
				25	0	21.18
	710	23790		1	0	22.14
				1	24	22.27
				12	6	21.23
				25	0	21.40
	713.5	23825		1	0	22.18
				1	24	22.08
				12	6	21.18
				25	0	21.03
64QAM	709	23780	5	1	0	22.05
				1	24	22.23
				12	6	21.08
				25	0	21.11
	710	23790		1	0	22.10
				1	24	22.25
				12	6	21.39
				25	0	21.25
	711	23800		1	0	21.95
				1	24	22.16
				12	6	21.34
				25	0	21.02

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	709	23780	10	1	0	23.77
				1	49	23.77
				24	12	22.41
				50	0	22.42
	710	23790		1	0	23.78
				1	49	23.78
				24	12	22.48
				50	0	22.47
	711	23800		1	0	23.73
				1	49	23.73
				24	12	22.40
				50	0	22.40
16QAM	709	23780	10	1	0	22.26
				1	49	22.31
				24	12	21.44
				50	0	21.40
	710	23790		1	0	22.35
				1	49	22.35
				24	12	21.52
				50	0	21.42
	711	23800		1	0	22.28
				1	49	22.34
				24	12	21.45
				50	0	21.33
64QAM	709	23780	10	1	0	22.20
				1	49	22.26
				24	12	21.38
				50	0	21.25
	710	23790		1	0	22.26
				1	49	22.35
				24	12	21.42
				50	0	21.32
	711	23800		1	0	22.22
				1	49	22.33
				24	12	21.36
				50	0	21.28

2 Occupied Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
17	706.5	23755	5	25	0	4.5	Fig.1	4.5	Fig.2	4.5	Fig.3
	710	23790		25	0	4.5	Fig.4	4.5	Fig.5	4.5	Fig.6
	713.5	23825		25	0	4.5	Fig.7	4.5	Fig.8	4.4	Fig.9
	709	23780	10	50	0	9.0	Fig.10	9.0	Fig.11	9.0	Fig.12
	710	23790		50	0	9.0	Fig.13	9.0	Fig.14	9.0	Fig.15
	711	23800		50	0	9.0	Fig.16	9.0	Fig.17	9.0	Fig.18

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
17	706.5	23755	5	25	0	4.9	Fig.1	4.8	Fig.2	4.9	Fig.3
	710	23790		25	0	4.9	Fig.4	4.8	Fig.5	4.8	Fig.6
	713.5	23825		25	0	4.8	Fig.7	4.7	Fig.8	4.8	Fig.9
	709	23780	10	50	0	9.8	Fig.10	9.8	Fig.11	9.8	Fig.12
	710	23790		50	0	10.0	Fig.13	9.7	Fig.14	9.7	Fig.15
	711	23800		50	0	9.9	Fig.16	9.8	Fig.17	9.8	Fig.18

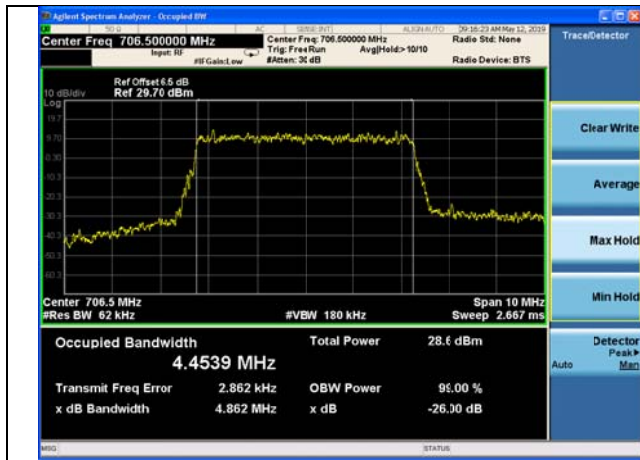


Fig.1

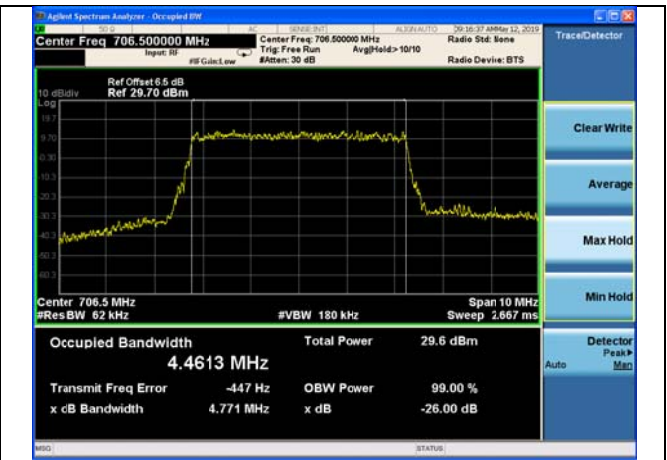


Fig.2

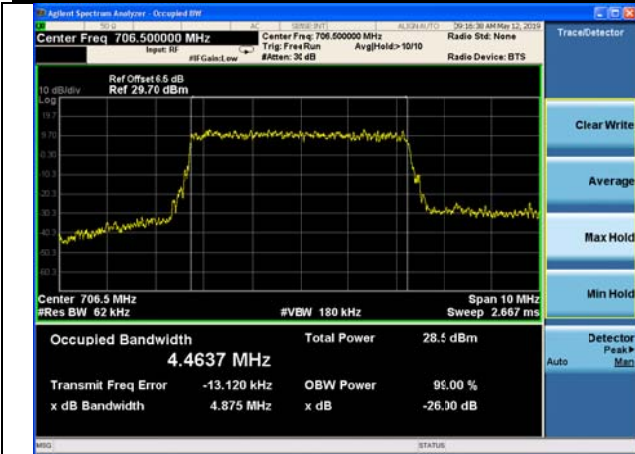


Fig.3

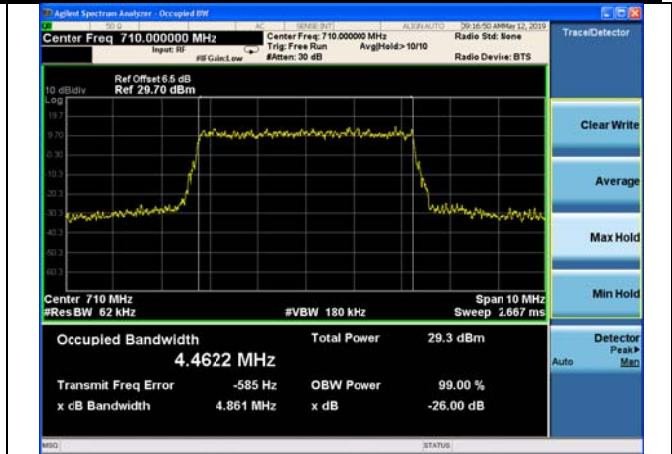


Fig.4

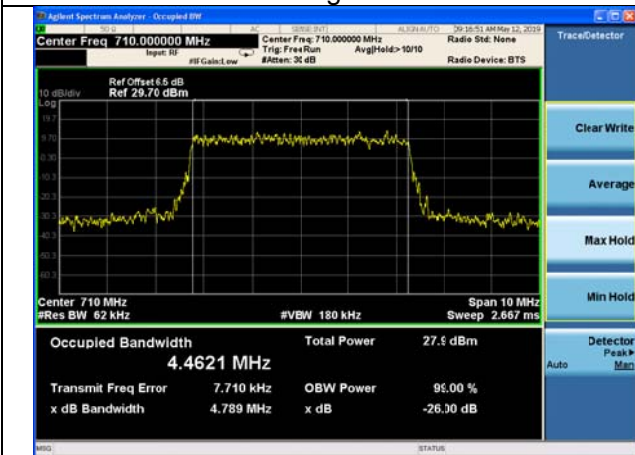


Fig.5

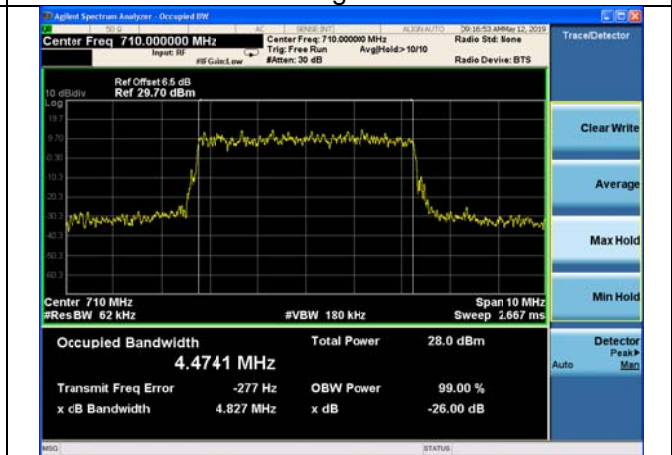


Fig.6

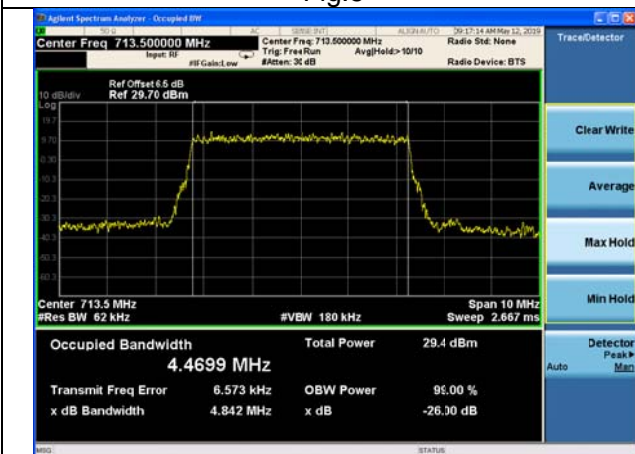


Fig.7

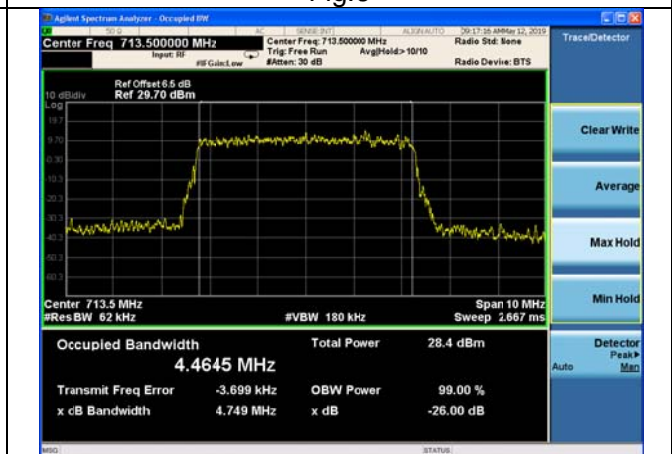


Fig.8

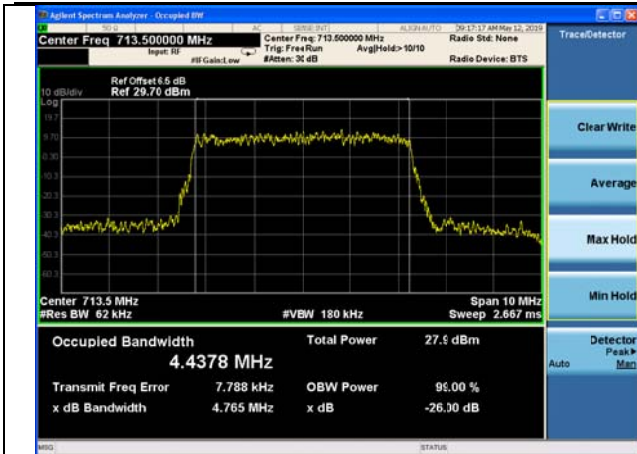


Fig.9

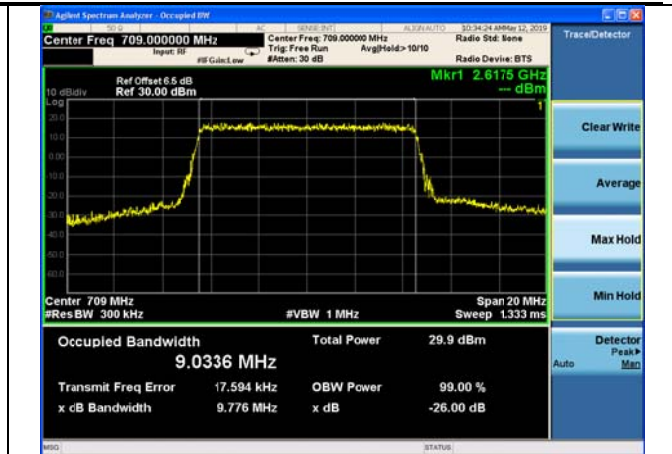


Fig.10

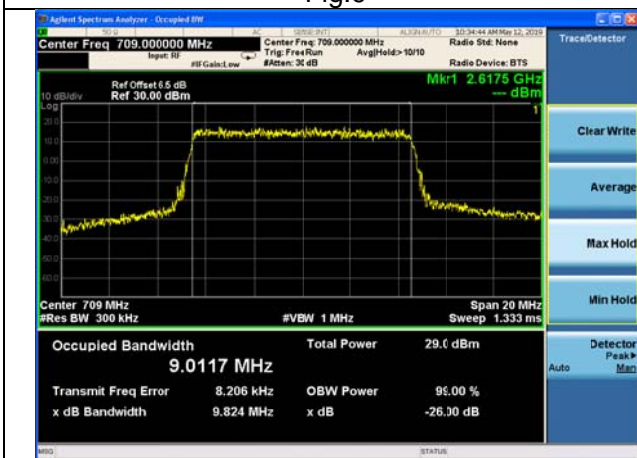


Fig.11

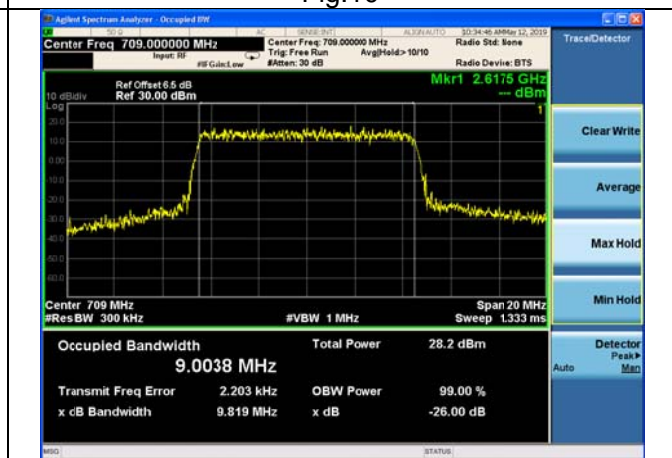


Fig.12

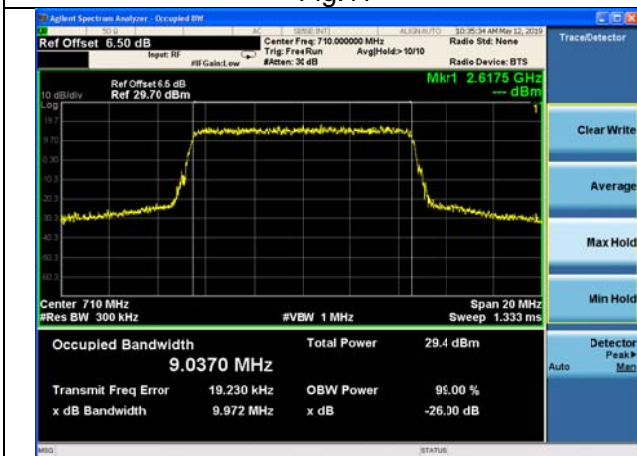


Fig.13

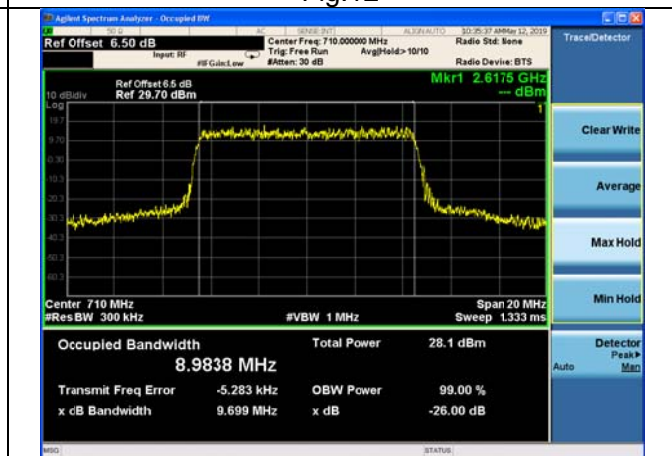


Fig.14

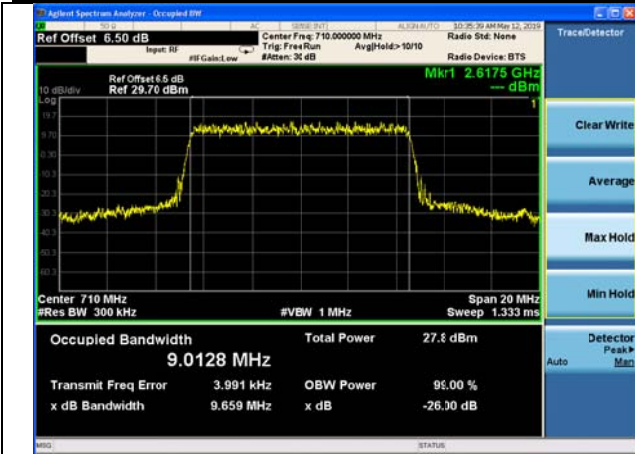


Fig.15



Fig.16

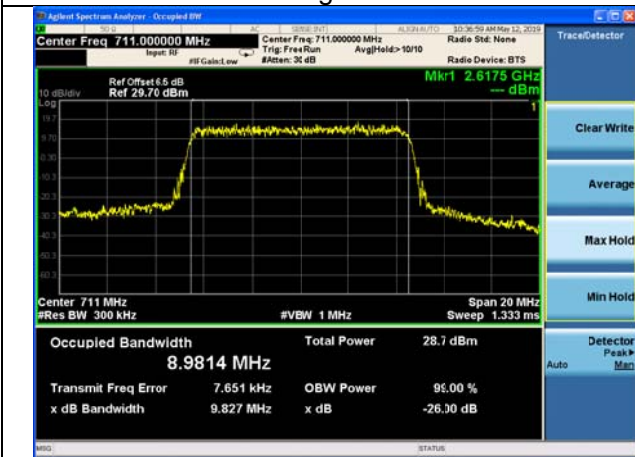


Fig.17

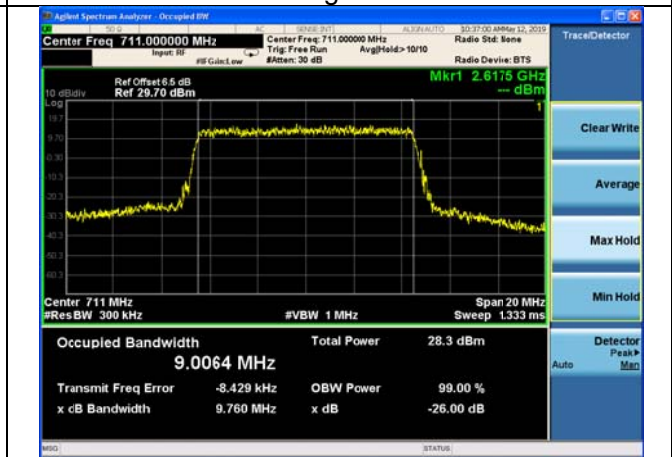


Fig.18

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
17	710	23790	5	1	0	Fig.1	Fig.2	Fig.3
			10	1	0	Fig.4	Fig.5	Fig.6

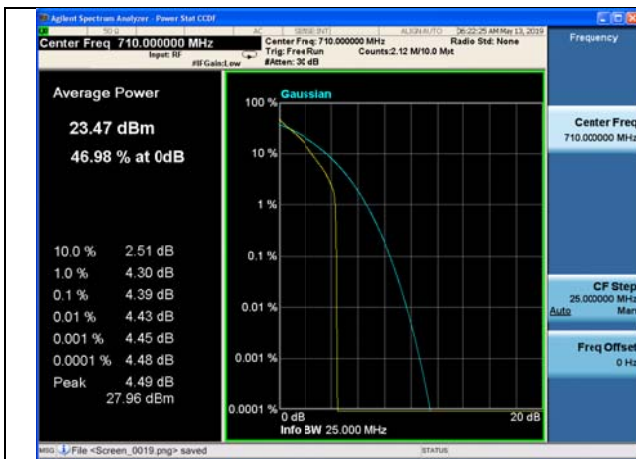


Fig.1



Fig.2

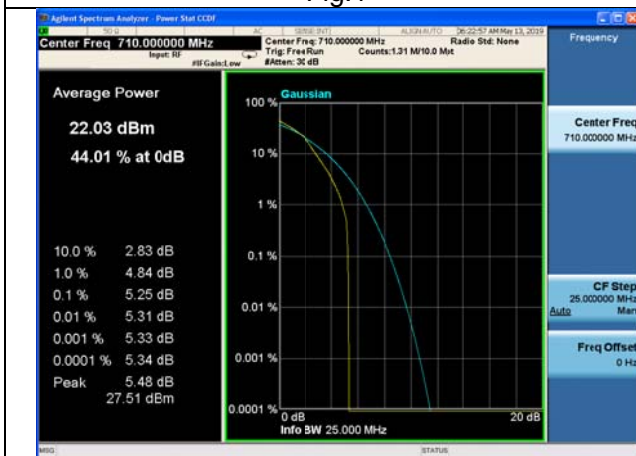


Fig.3



Fig.4

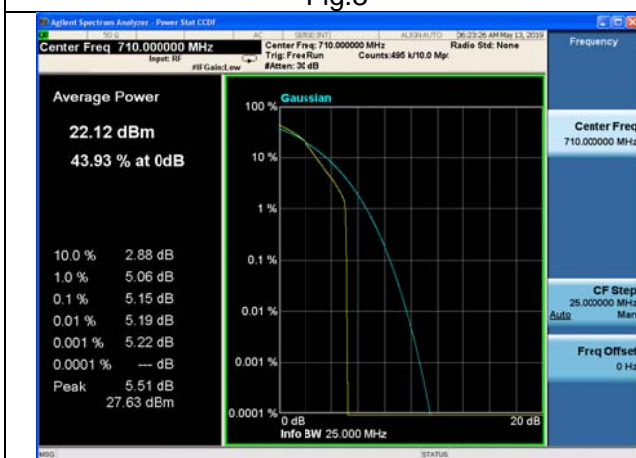


Fig.5



Fig.6

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
17	709	23780	10	1	0	Fig.1
	710	23790	10	1	0	Fig.2
	711	23800	10	1	0	Fig.3

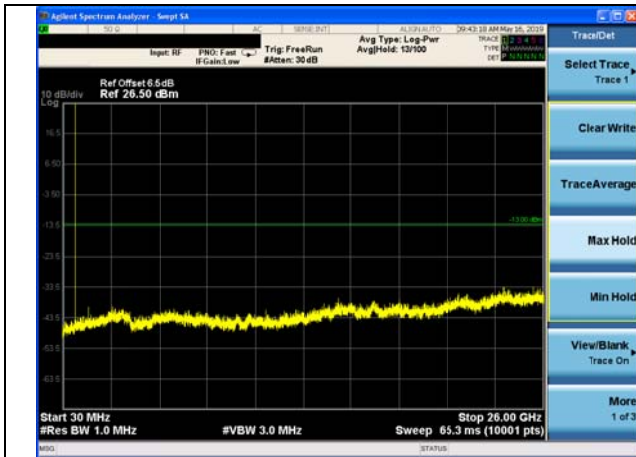


Fig.1

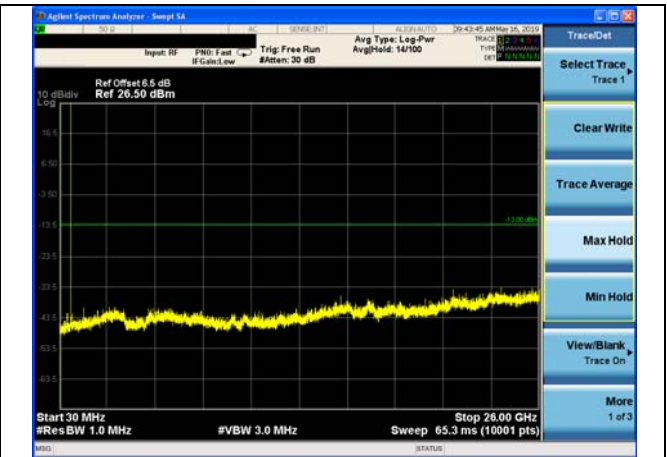


Fig.2

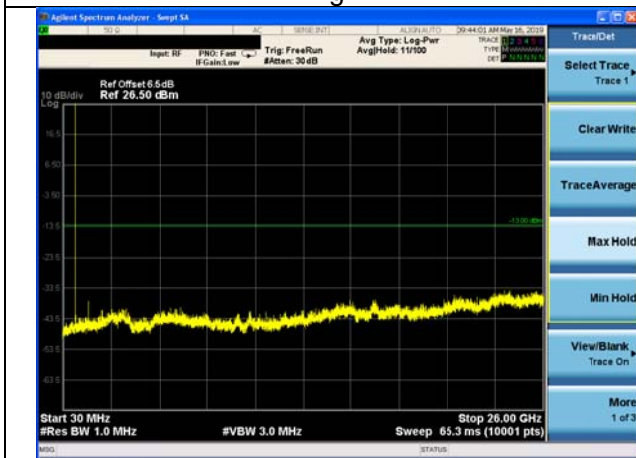


Fig.3

5 Band Edges Compliance
Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
17	706.5	23755	5	1	0	Fig.1
				25	0	Fig.2
	713.5	23825		1	24	Fig.3
				25	0	Fig.4
	709	23780	10	1	0	Fig.5
				50	0	Fig.6
	711	23800		1	49	Fig.7
				50	0	Fig.8

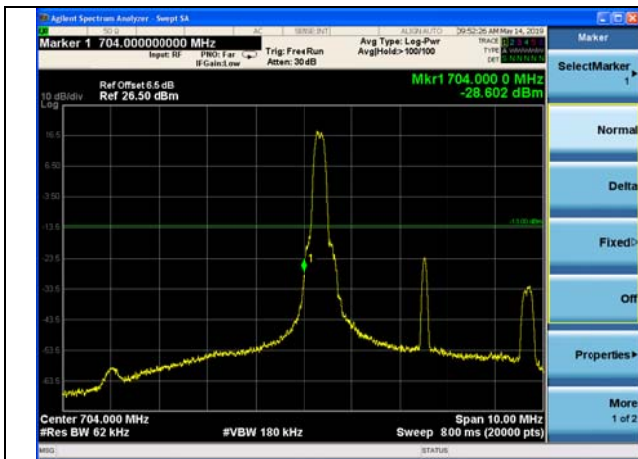


Fig.1

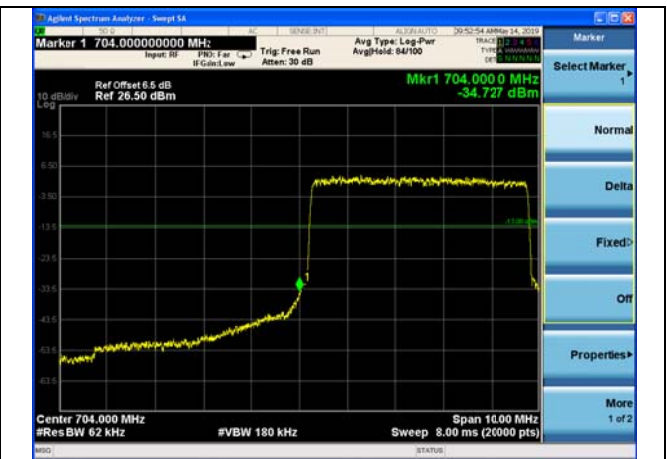


Fig.2

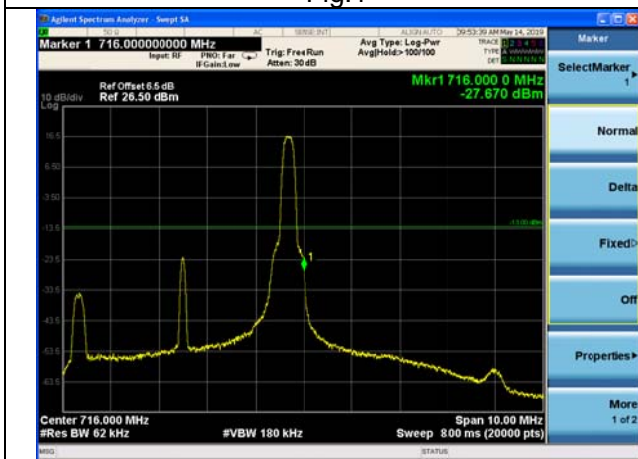


Fig.3

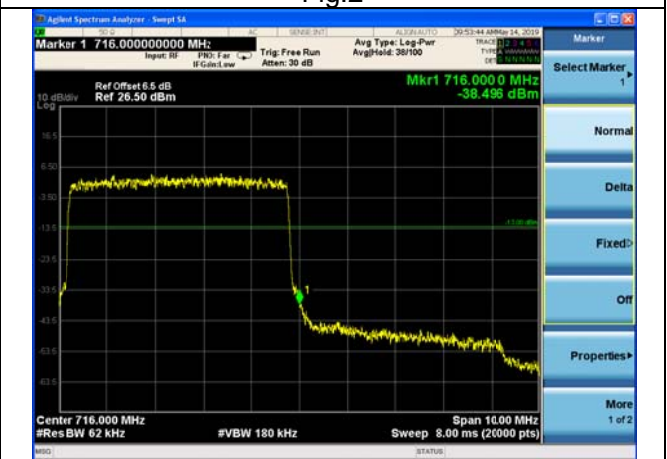


Fig.4

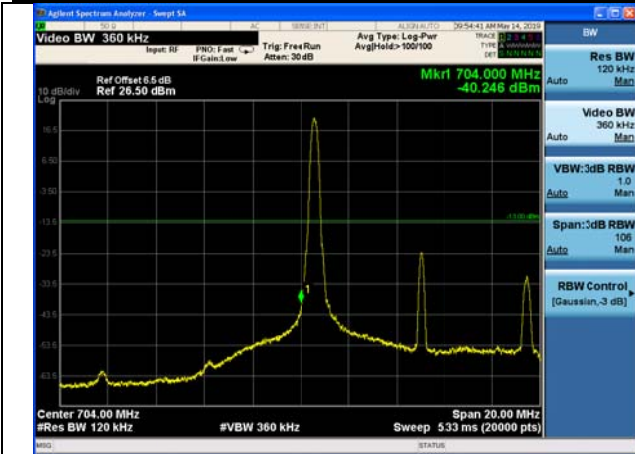


Fig.5



Fig.6

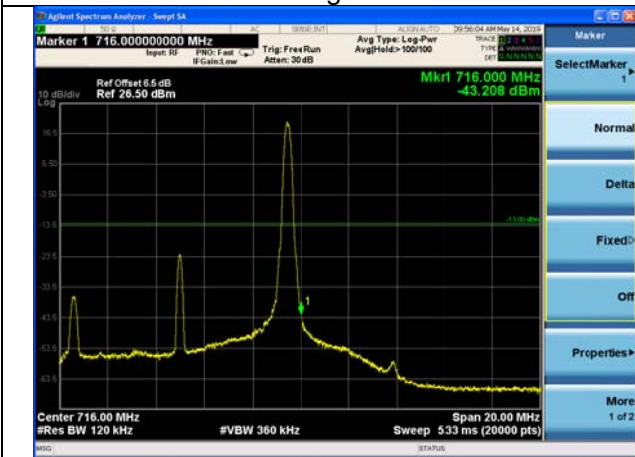


Fig.7



Fig.8

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band17 Low Channel	
		5M	10M
-10	NV	0.106	0.033
0	NV	0.007	0.086
10	NV	0.082	0.109
20	NV	0.070	0.003
30	NV	0.146	0.015
40	NV	0.034	0.003
50	NV	0.124	0.071
20	LV	0.101	0.081
20	HV	0.048	0.054

Temperature(°C)	Voltage	Test Result (ppm) Band17 High Channel	
		5M	10M
-10	NV	0.065	0.033
0	NV	0.033	0.065
10	NV	0.121	0.067
20	NV	0.101	0.050
30	NV	0.116	0.079
40	NV	0.097	0.036
50	NV	0.040	0.121
20	LV	0.044	0.142
20	HV	0.064	0.016