

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 71

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	B W	RB Size	RB Offset	Conducted power (dBm)
QPSK	665.5	133147	5	1	0	23.69
				1	24	23.59
				12	6	22.83
				25	0	22.73
	680.5	133297		1	0	23.86
				1	24	23.82
				12	6	23.02
				25	0	22.88
	695.5	133447		1	0	23.75
				1	24	23.71
				12	6	22.94
				25	0	22.88
16QAM	665.5	133147	5	1	0	22.67
				1	24	22.69
				12	6	21.79
				25	0	21.70
	680.5	133297		1	0	22.89
				1	24	22.80
				12	6	21.96
				25	0	21.97
	695.5	133447		1	0	22.81
				1	24	22.74
				12	6	21.98
				25	0	21.84

Modulation	Carrier frequency (MHz)	UL Channel	B W	RB Size	RB Offset	Conducted power (dBm)
QPSK	668	133172	10	1	0	23.75
				1	49	23.64
				24	12	22.91
				50	0	22.76
	680.5	133297		1	0	23.95
				1	49	23.93
				24	12	22.99
				50	0	22.99
	693	133422		1	0	23.83
				1	49	23.73
				24	12	23.03
				50	0	22.95
16QAM	668	133172	10	1	0	22.81
				1	49	22.65
				24	12	21.81
				50	0	21.86
	680.5	133297		1	0	23.02
				1	49	22.92
				24	12	22.02
				50	0	22.05
	693	133422		1	0	22.77
				1	49	22.78
				24	12	22.03
				50	0	21.95

Modulation	Carrier frequency (MHz)	UL Channel	B W	RB Size	RB Offset	Conducted power (dBm)
QPSK	670.5	133197	15	1	0	23.81
				1	74	23.80
				40	18	22.92
				75	0	22.92
	680.5	133297		1	0	23.99
				1	74	23.96
				40	18	23.10
				75	0	23.00
	690.5	133397		1	0	23.89
				1	74	23.89
				40	18	23.03
				75	0	22.95
16QAM	670.5	133197	15	1	0	22.80
				1	74	22.76
				40	18	21.95
				75	0	21.93
	680.5	133297		1	0	23.06
				1	74	23.01
				40	18	22.09
				75	0	22.02
	690.5	133397		1	0	22.87
				1	74	22.78
				40	18	22.07
				75	0	22.05

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	673	133222	20	1	0	23.95
				1	99	23.90
				50	25	23.07
				100	0	23.01
	683	133322		1	0	24.11
				1	99	24.07
				50	25	23.23
				100	0	23.16
	688	133372		1	0	24.06
				1	99	23.98
				50	25	23.19
				100	0	23.11
16QAM	673	133222	20	1	0	22.98
				1	99	22.92
				50	25	22.07
				100	0	22.01
	683	133322		1	0	23.16
				1	99	23.11
				50	25	22.23
				100	0	22.20
	688	133372		1	0	23.04
				1	99	22.95
				50	25	22.19
				100	0	22.14

2 Occupied Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
71	665.5	133147	5	25	0	4.4925	Fig.1	4.4622	Fig.2
	680.5	133297		25	0	4.4761	Fig.3	4.4907	Fig.4
	695.5	133447		25	0	4.4719	Fig.5	4.4820	Fig.6
	668	133172	10	50	0	8.9505	Fig.7	8.9570	Fig.8
	680.5	133297		50	0	8.9528	Fig.9	8.9551	Fig.10
	693	133422		50	0	8.9415	Fig.11	8.9514	Fig.12
	670.5	133197	15	75	0	13.391	Fig.13	13.366	Fig.14
	680.5	133297		75	0	13.418	Fig.15	13.418	Fig.16
	690.5	133397		75	0	13.412	Fig.17	13.405	Fig.18
	673	133222	20	100	0	17.813	Fig.19	17.853	Fig.20
	683	133322		100	0	17.841	Fig.21	17.802	Fig.22
	688	133372		100	0	17.834	Fig.23	17.785	Fig.24

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)			
						QPSK		16-QAM	
71	665.5	133147	5	25	0	4.947	Fig.1	4.892	Fig.2
	680.5	133297		25	0	4.907	Fig.3	4.895	Fig.4
	695.5	133447		25	0	4.927	Fig.5	4.949	Fig.6
	668	133172	10	50	0	9.740	Fig.7	9.547	Fig.8
	680.5	133297		50	0	9.750	Fig.9	9.652	Fig.10
	693	133422		50	0	9.761	Fig.11	9.748	Fig.12
	670.5	133197	15	75	0	14.40	Fig.13	14.43	Fig.14
	680.5	133297		75	0	14.55	Fig.15	14.28	Fig.16
	690.5	133397		75	0	14.58	Fig.17	14.35	Fig.18
	673	133222	20	100	0	19.07	Fig.19	18.92	Fig.20
	683	133322		100	0	19.06	Fig.21	18.90	Fig.22
	688	133372		100	0	19.38	Fig.23	19.01	Fig.24

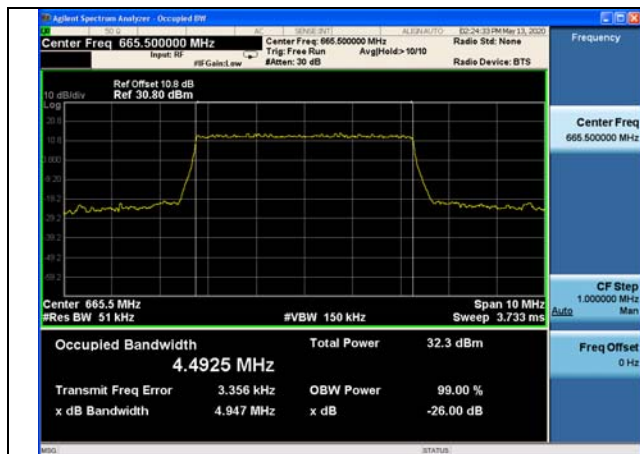


Fig.1

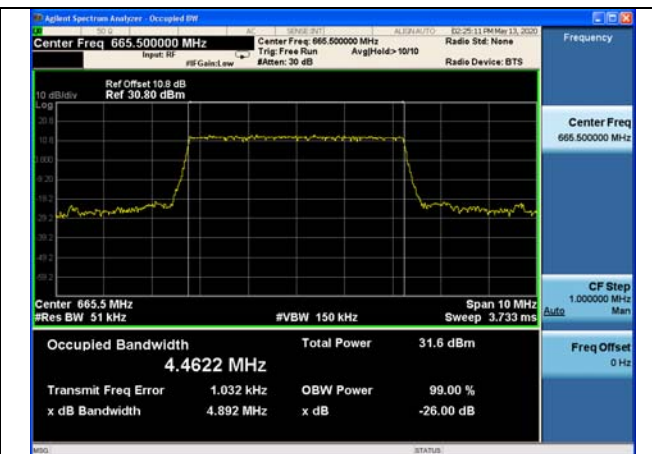


Fig.2

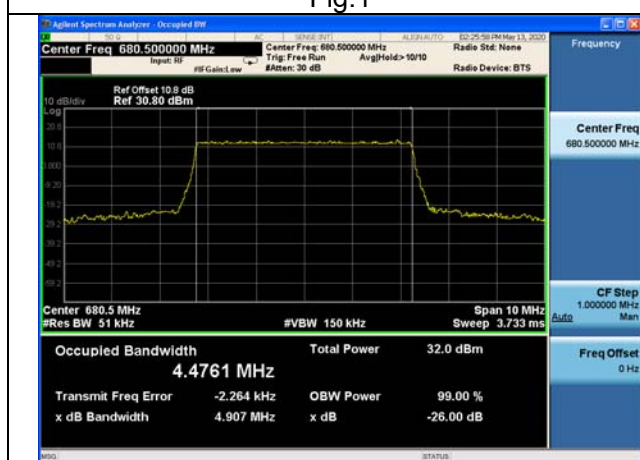


Fig.3

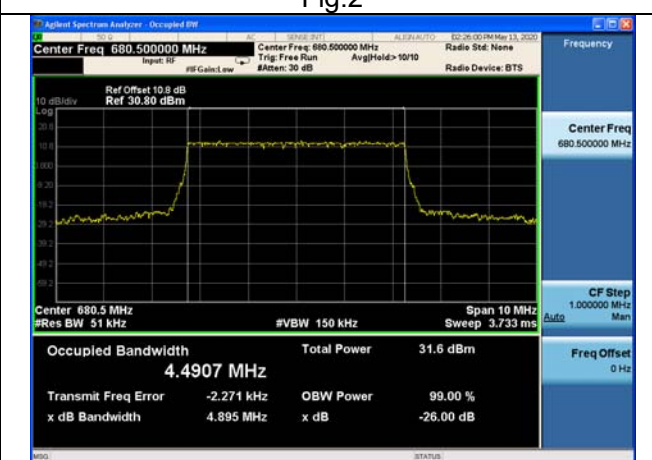


Fig.4

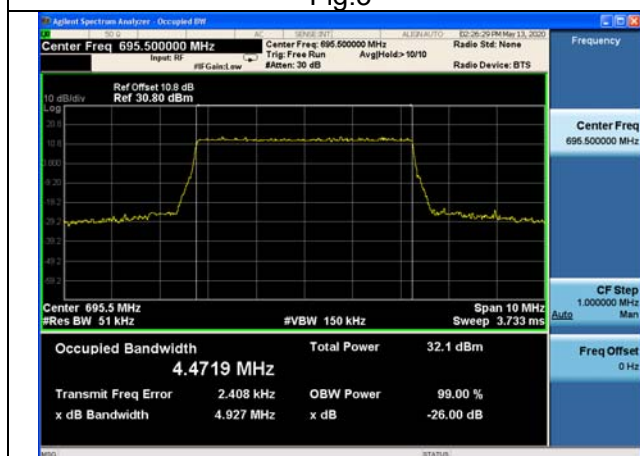


Fig.5

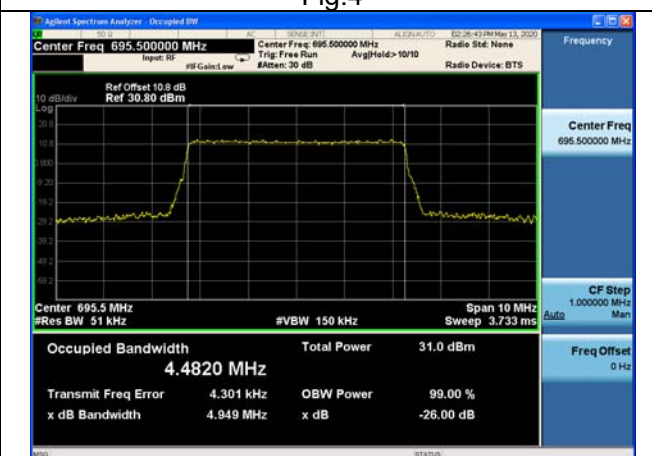


Fig.6

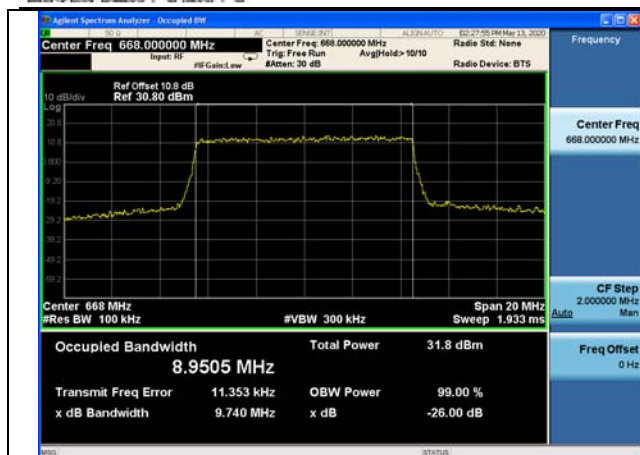


Fig.7



Fig.8

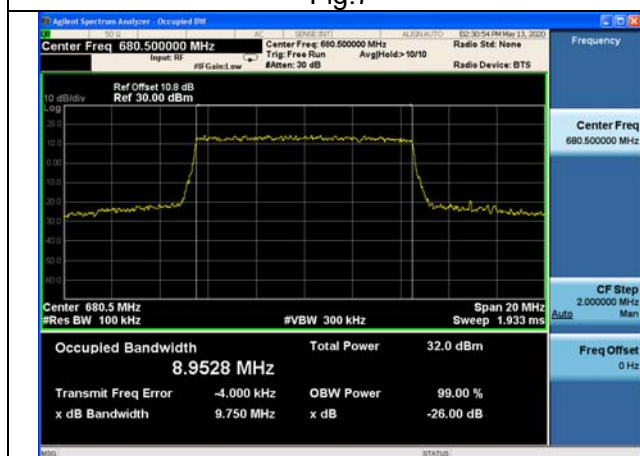


Fig.9

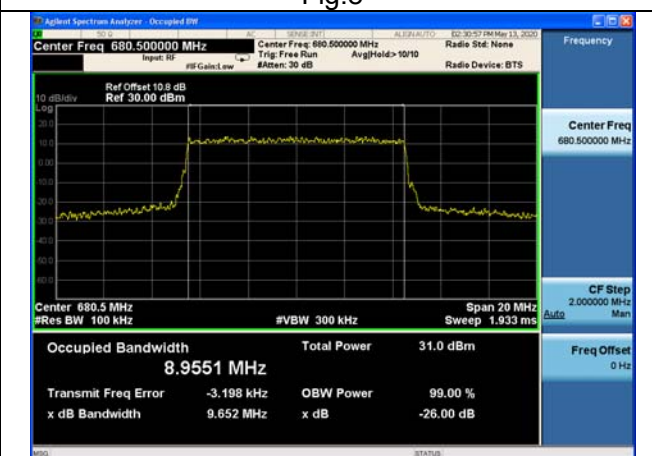


Fig.10

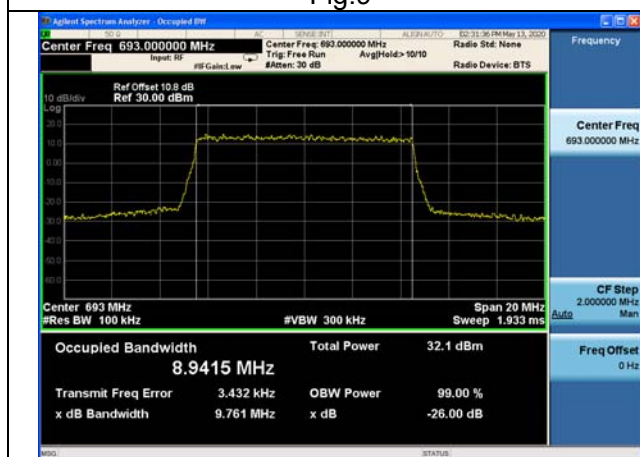


Fig.11

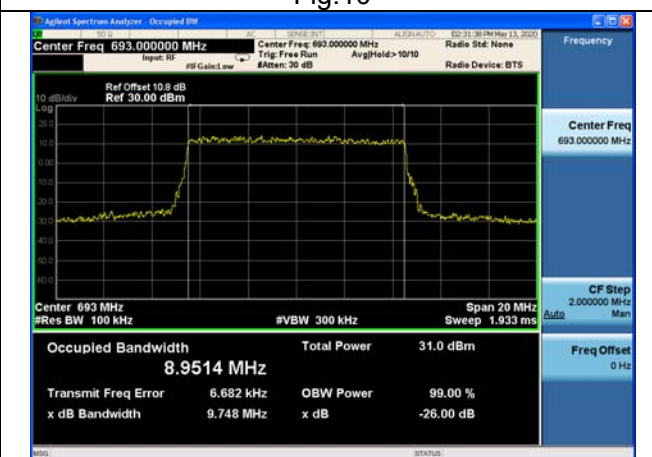


Fig.12

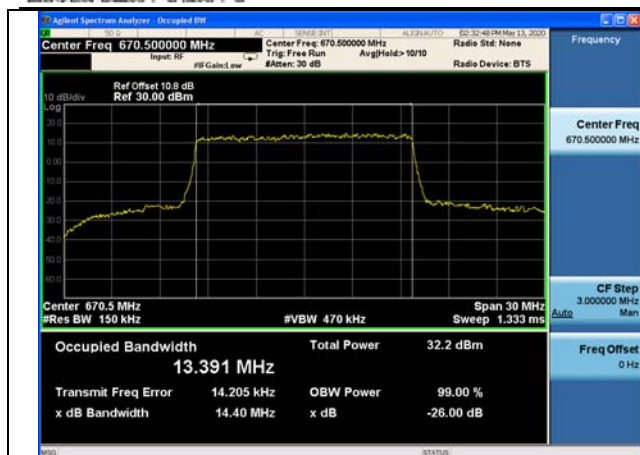


Fig.13

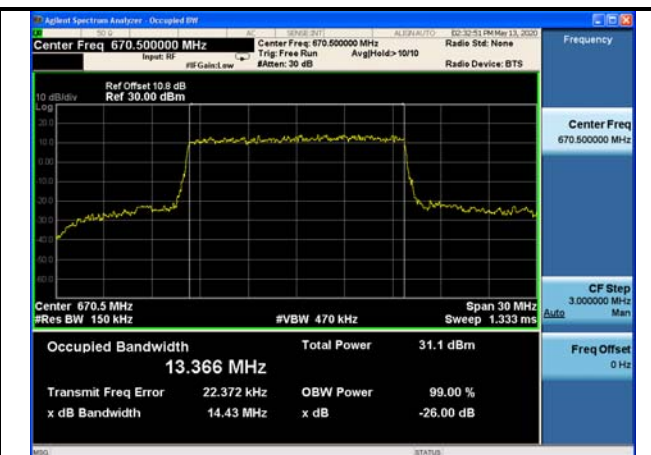


Fig.14

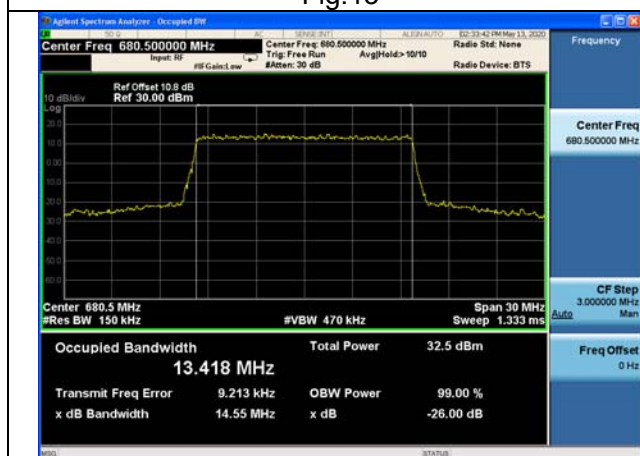


Fig.15

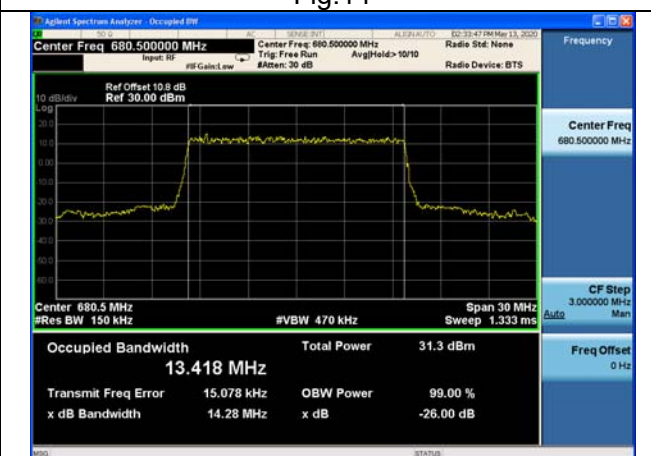


Fig.16

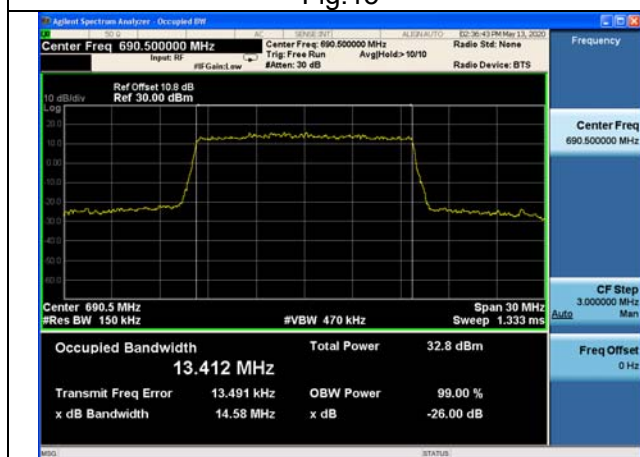


Fig.17

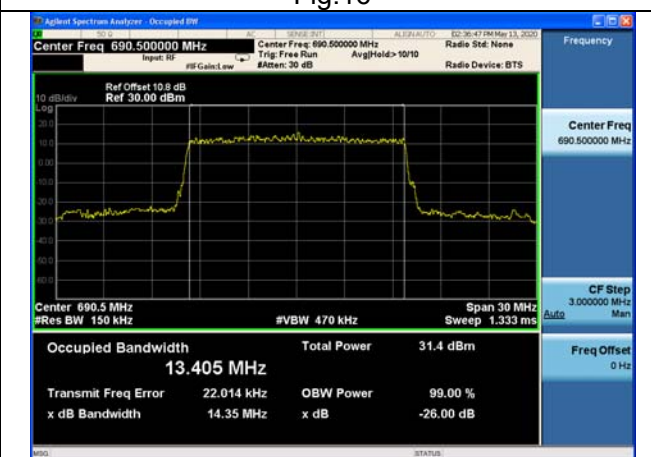


Fig.18

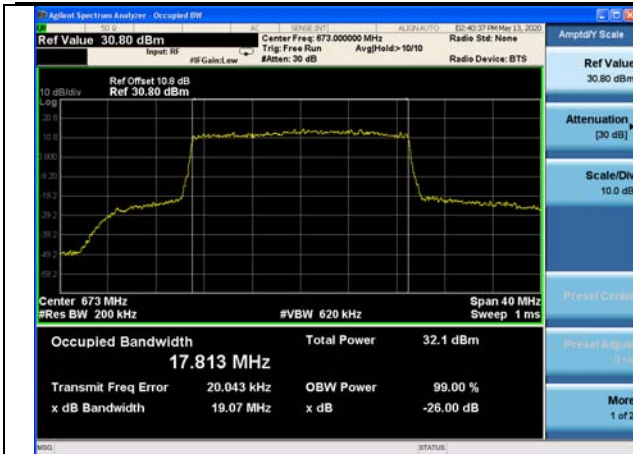


Fig.19



Fig.20

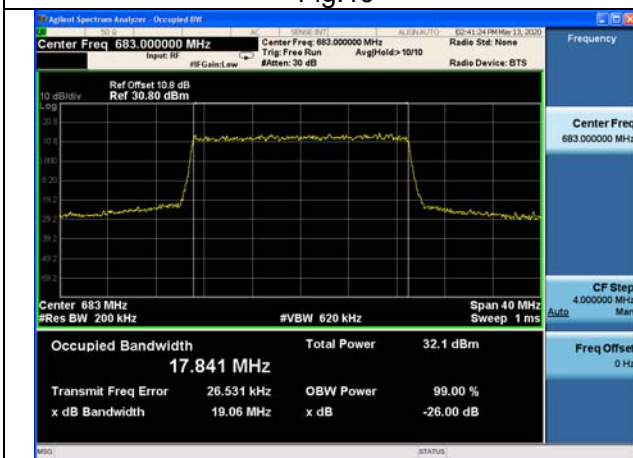


Fig.21

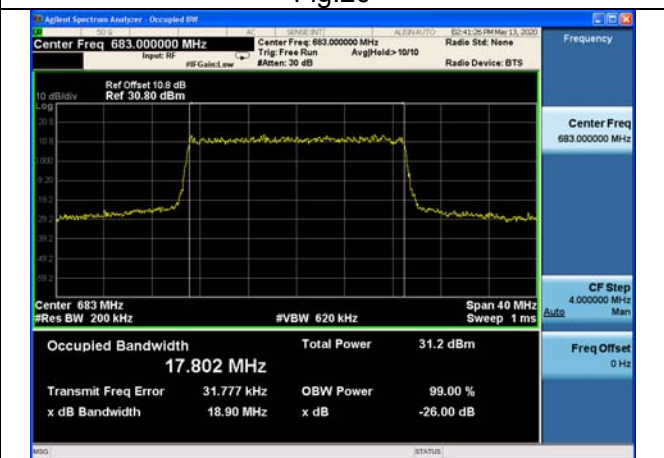


Fig.22

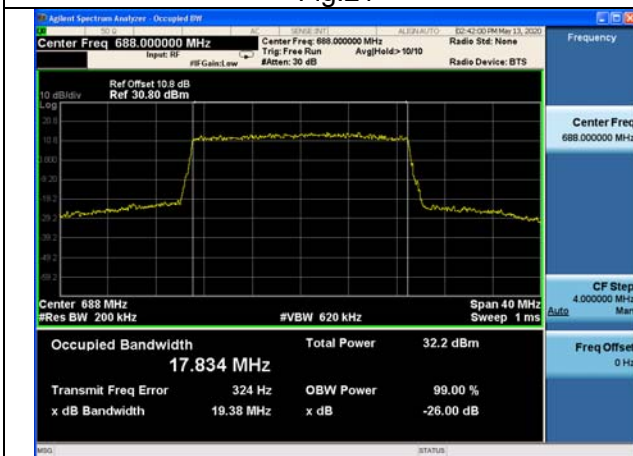


Fig.23

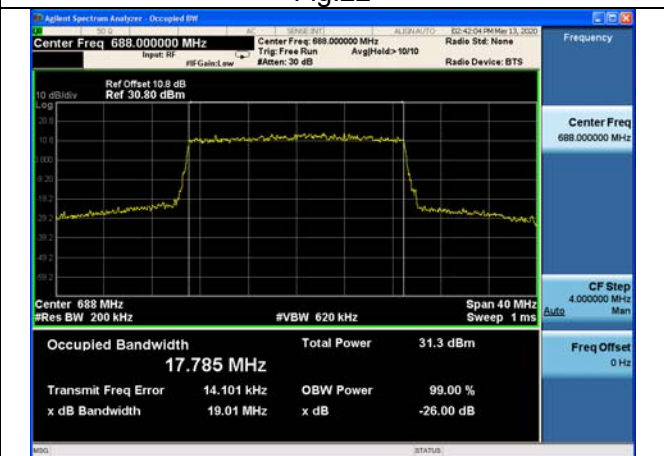


Fig.24

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM
71	680.5	133297	5	1	0	Fig.1	Fig.2
			10	1	0	Fig.3	Fig.4
			15	1	0	Fig.5	Fig.6
	683	133322	20	1	0	Fig.7	Fig.8



Fig.1



Fig.2

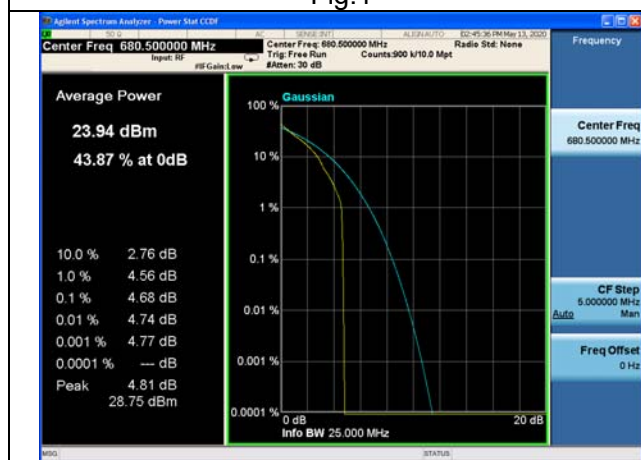


Fig.3



Fig.4



Fig.5



Fig.6

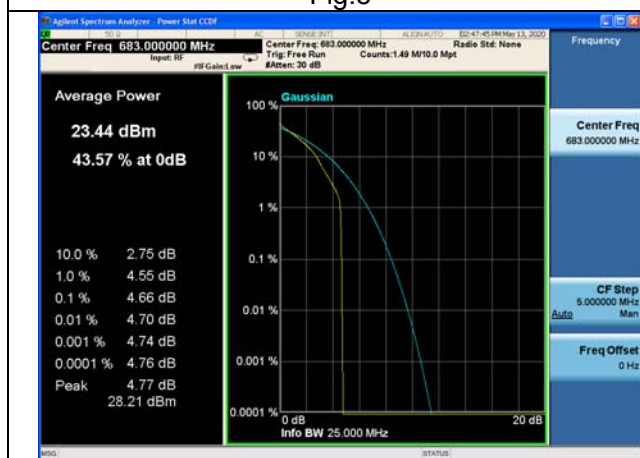


Fig.7



Fig.8

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
71	673	133222	20	1	0	Fig.1-2
	683	133322	20	1	0	Fig.3-4
	688	133372	20	1	0	Fig.5-6

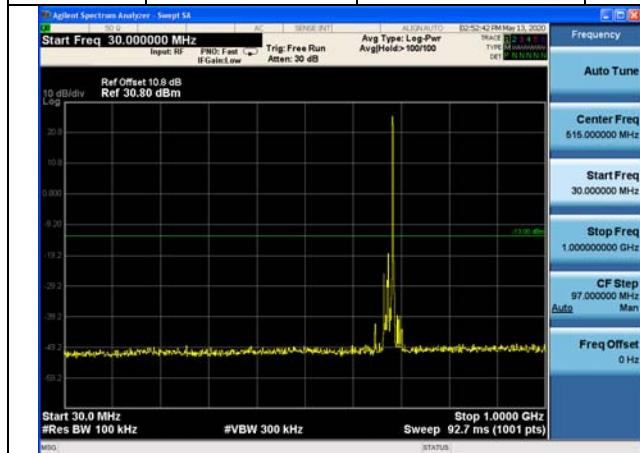


Fig.1



Fig.2

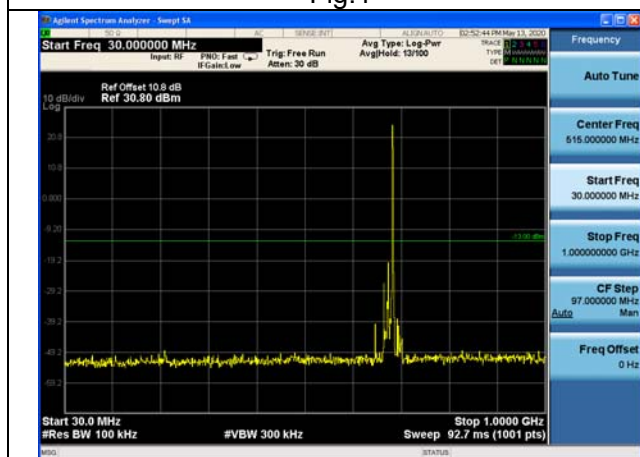


Fig3



Fig4

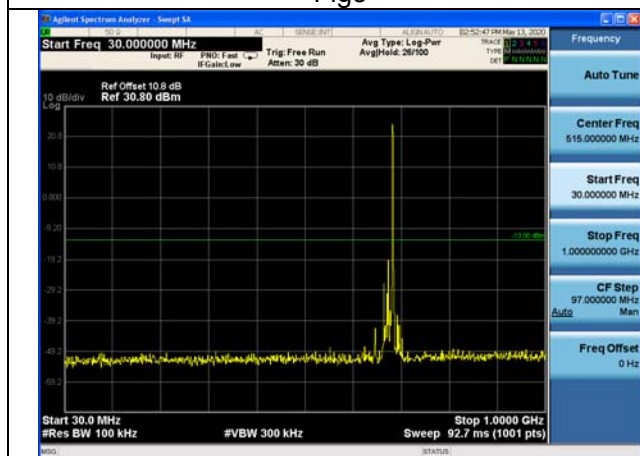


Fig5

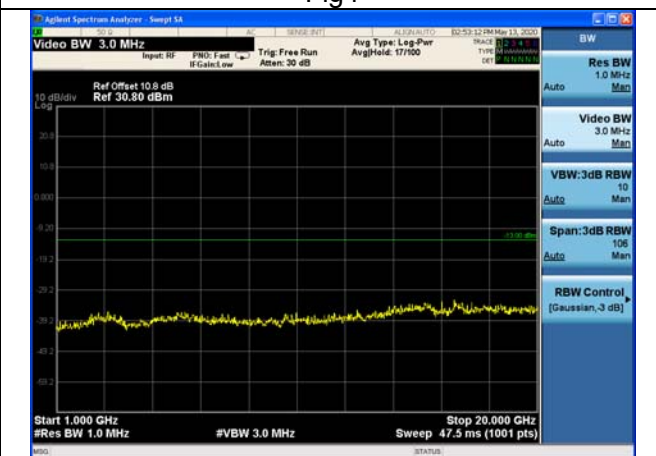


Fig6

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
71	665.5	133147	5	1	0	Fig.1
				25	0	Fig.2
	695.5	133447		1	24	Fig.3
				25	0	Fig.4
	668	133172	10	1	0	Fig.5
				50	0	Fig.6
	693	133422		1	49	Fig.7
				50	0	Fig.8
	670.5	133197	15	1	0	Fig.9
				75	0	Fig.10
	690.5	133397		1	74	Fig.11
				75	0	Fig.12
	673	133222	20	1	0	Fig.13
				100	0	Fig.14
	688	133372		1	99	Fig.15
				100	0	Fig.16

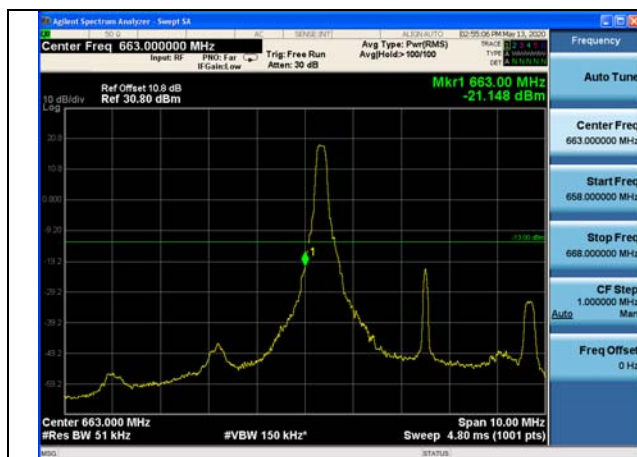


Fig.1

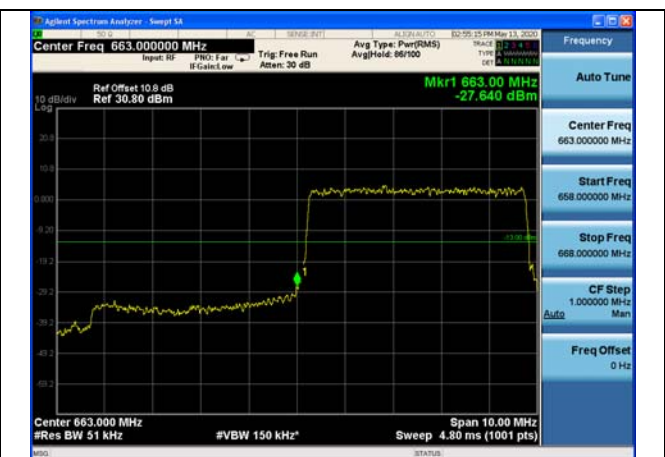


Fig.2

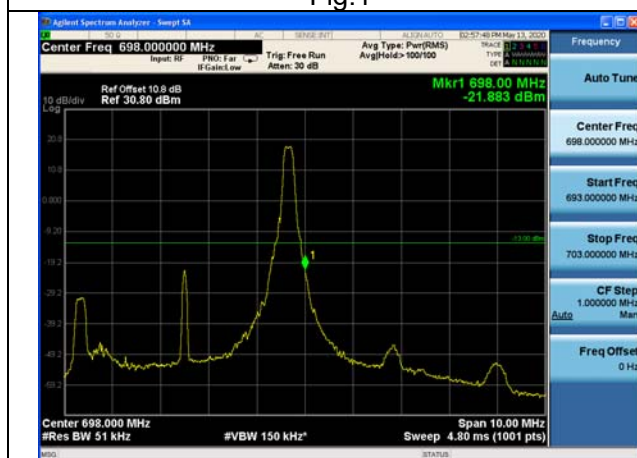


Fig.3



Fig.4

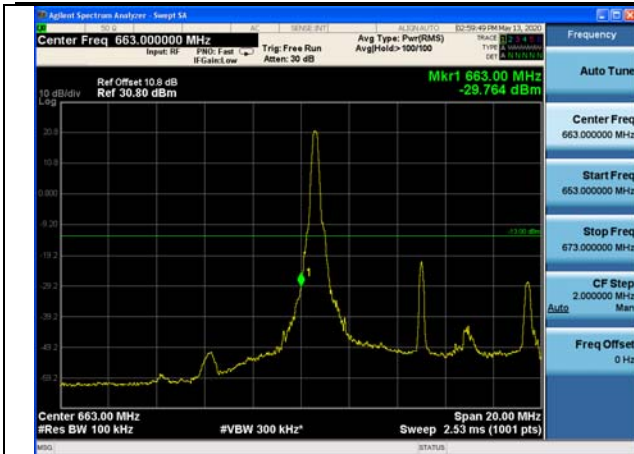


Fig.5



Fig.6

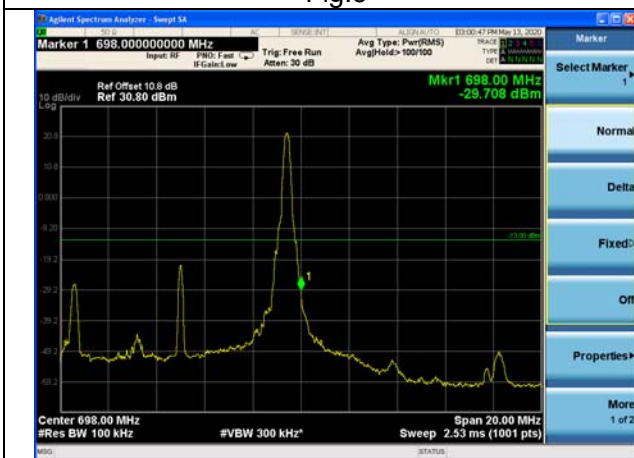


Fig.7



Fig.8

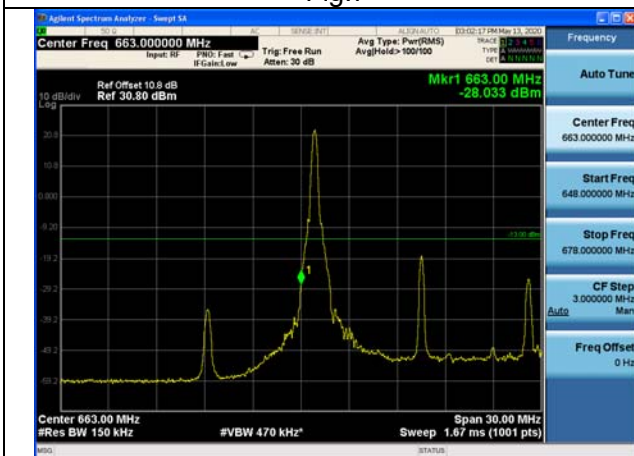


Fig.9



Fig.10

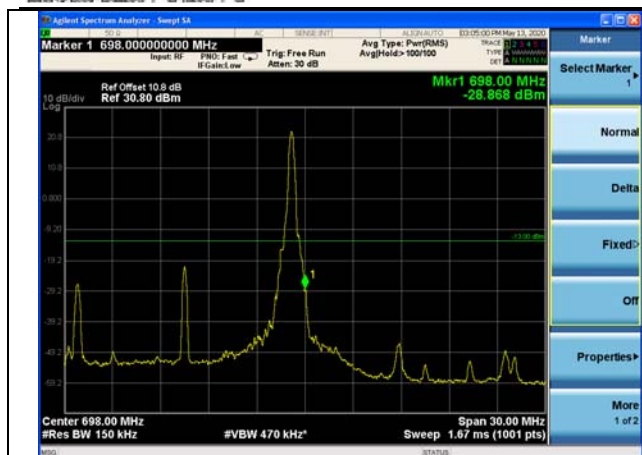


Fig.11



Fig.12

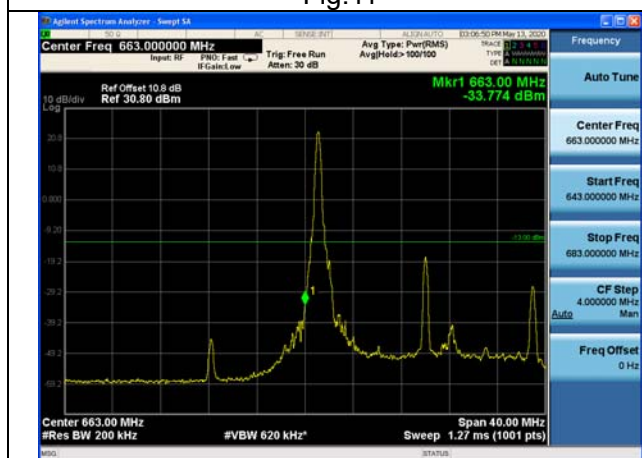


Fig.13

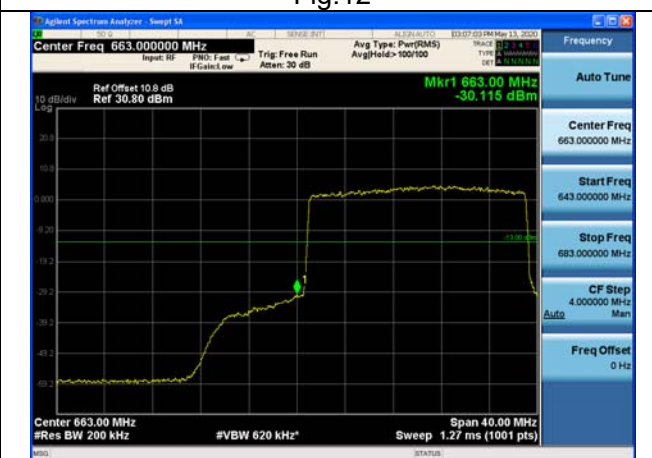


Fig.14

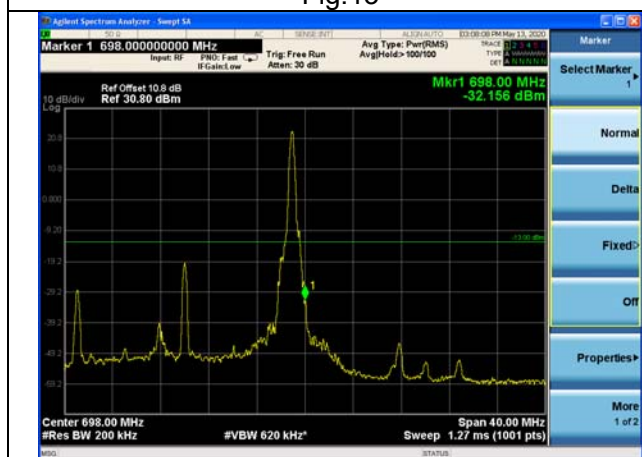


Fig.15



Fig.16

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band71 Low Channel			
		5M	10M	15M	20M
-10	NV	0.018	0.003	-0.016	0.019
0	NV	0.019	0.026	-0.022	-0.008
+10	NV	0.023	-0.017	-0.018	-0.019
+20	NV	0.000	0.000	0.000	0.000
+30	NV	-0.019	-0.020	0.018	0.025
+40	NV	0.010	-0.021	0.024	0.025
+50	NV	-0.019	-0.005	0.012	-0.023
+55	NV	0.018	-0.018	-0.018	0.019
+20	LV	-0.011	0.016	0.017	0.015
+20	HV	0.010	-0.017	-0.022	0.012

Temperature(°C)	Voltage	Test Result (ppm) Band71 High Channel			
		5M	10M	15M	20M
-10	NV	0.012	0.018	-0.013	0.016
0	NV	-0.019	-0.006	0.015	-0.019
+10	NV	0.018	0.012	-0.005	-0.014
+20	NV	0.000	0.000	0.000	0.000
+30	NV	0.010	0.015	-0.018	-0.003
+40	NV	0.012	0.013	-0.019	-0.014
+50	NV	0.019	0.012	0.004	-0.029
+55	NV	-0.012	-0.012	0.011	0.001
+20	LV	-0.016	-0.004	-0.006	-0.010
+20	HV	0.012	0.002	0.019	0.036