

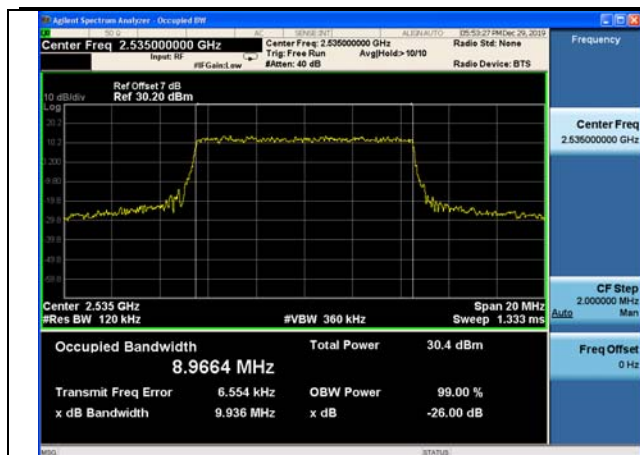


Fig.15

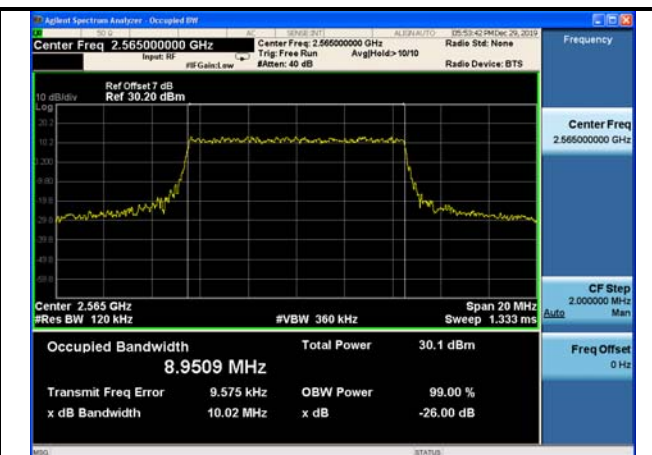


Fig.16

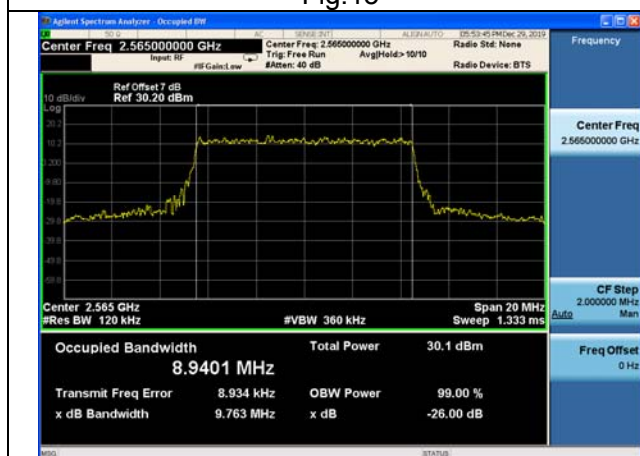


Fig.17

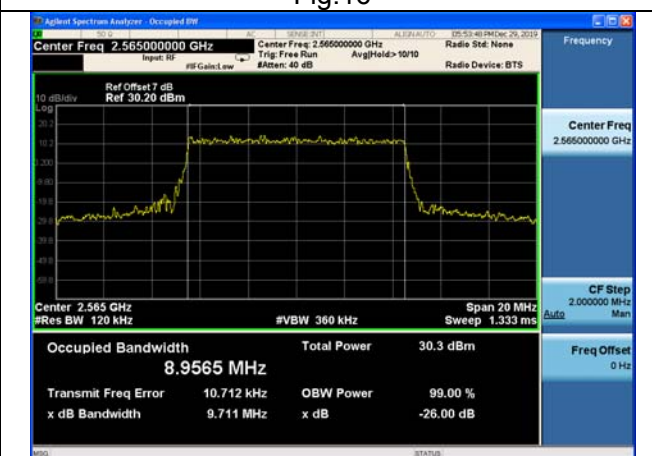


Fig.18

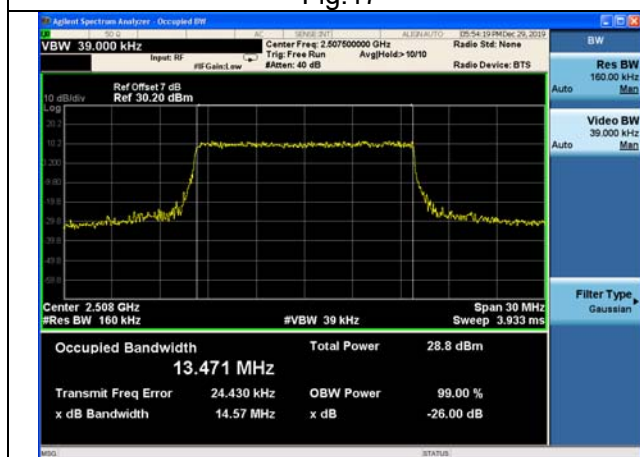


Fig.19

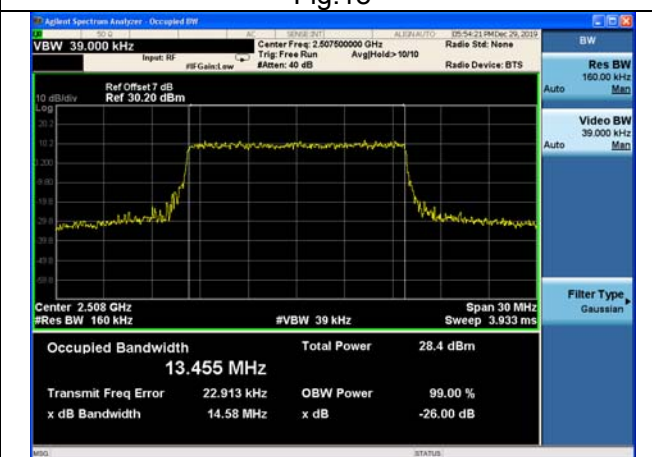


Fig.20

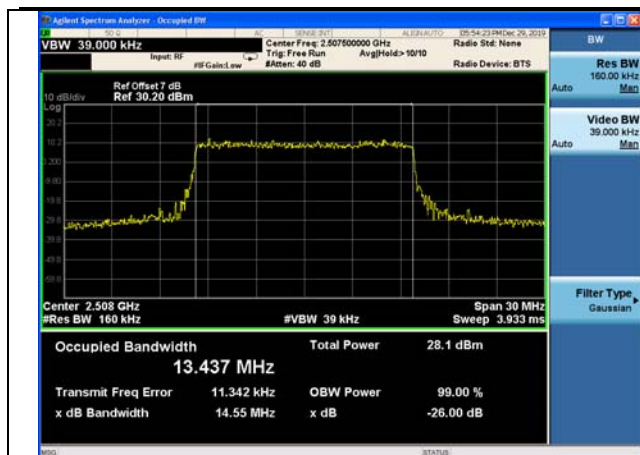


Fig.21

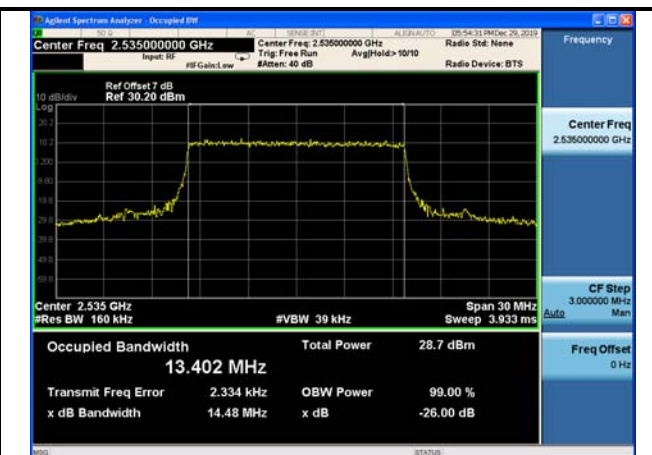


Fig.22

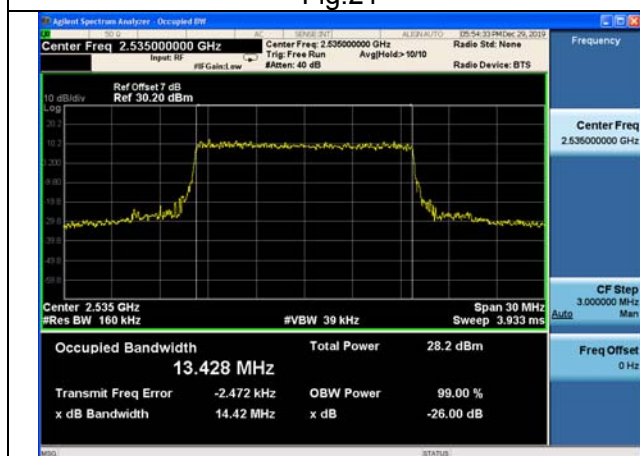


Fig.23

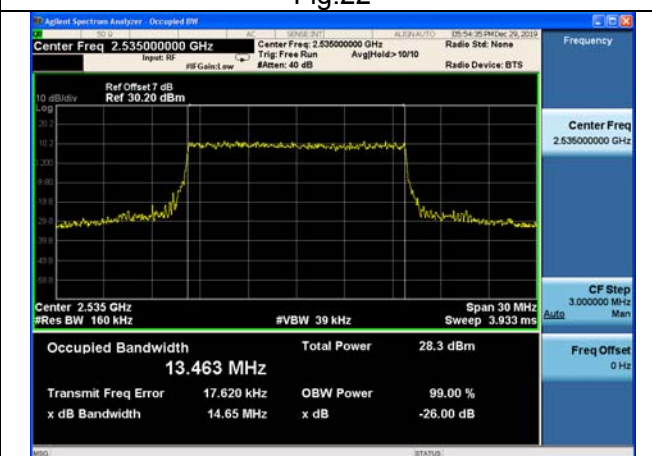


Fig.24

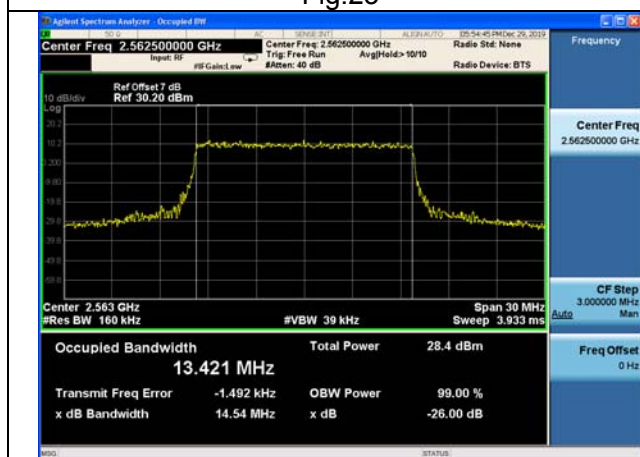


Fig.25

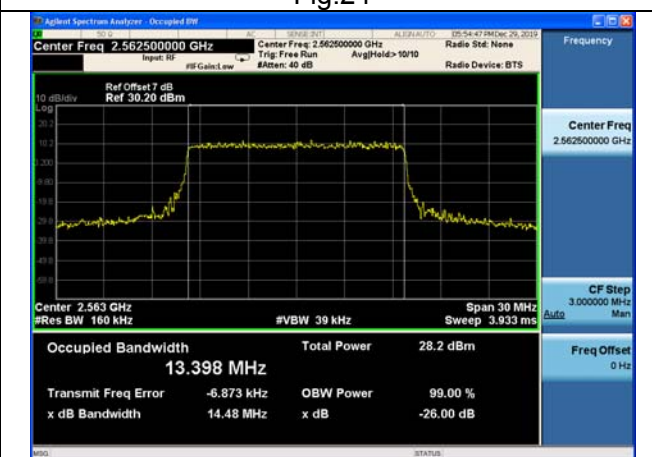


Fig.26

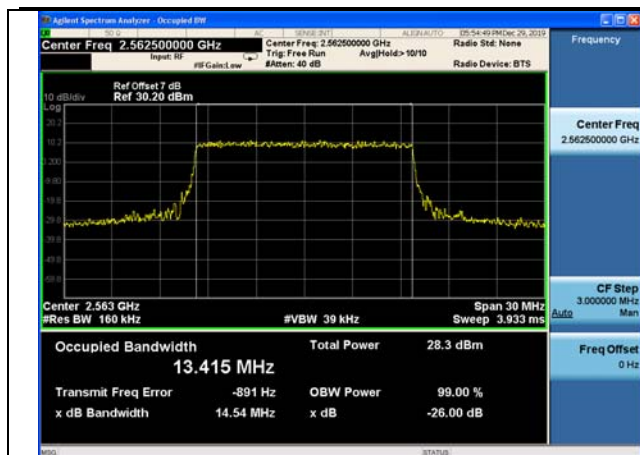


Fig.27

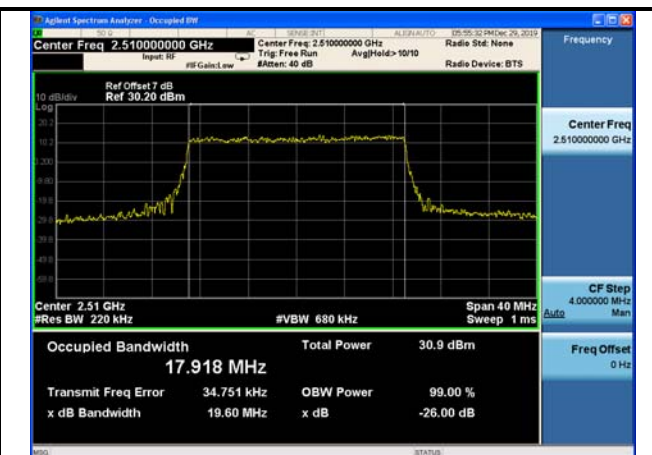


Fig.28

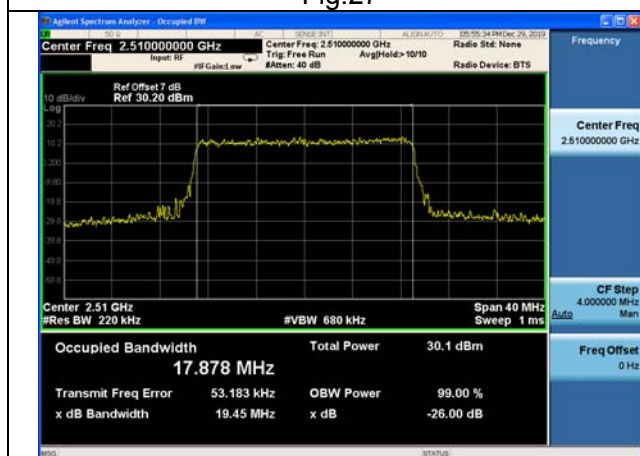


Fig.29

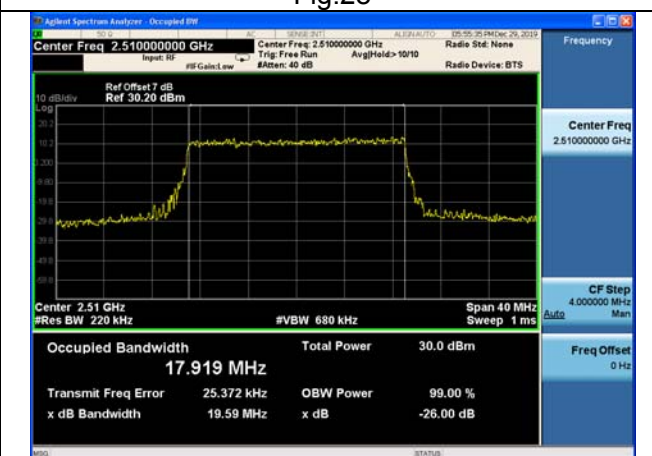


Fig.30

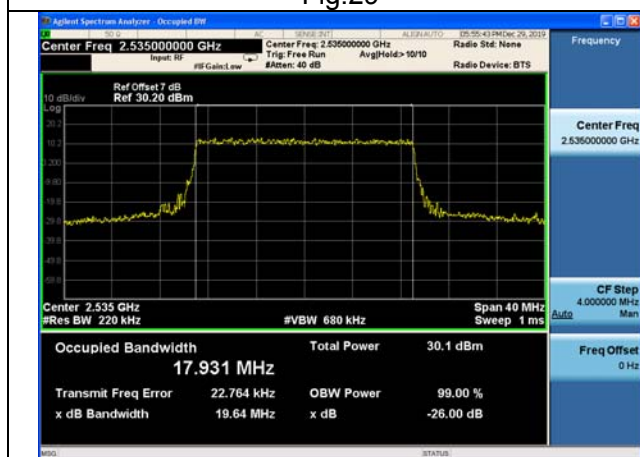


Fig.31

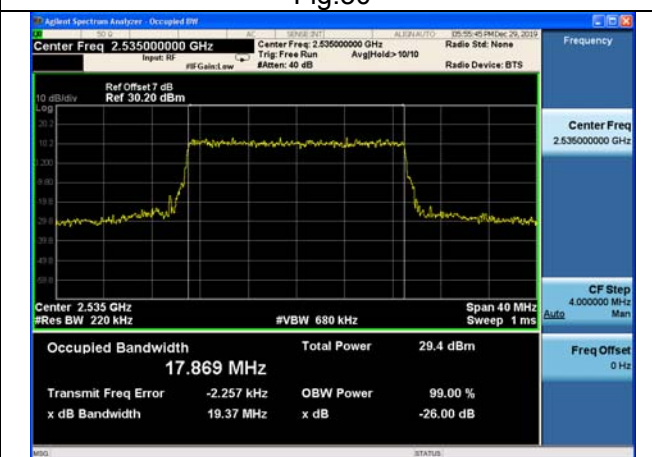


Fig.32

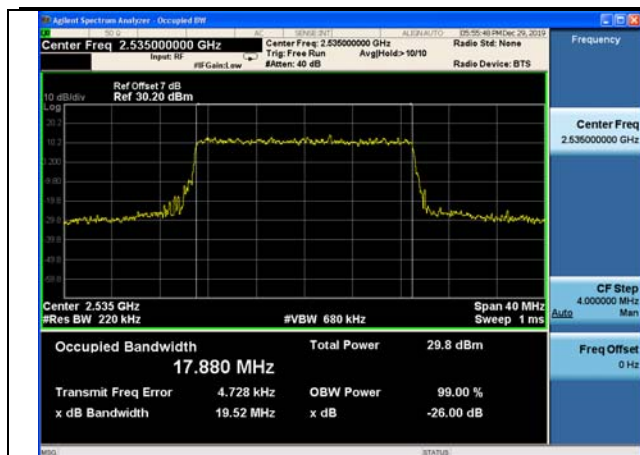


Fig.33

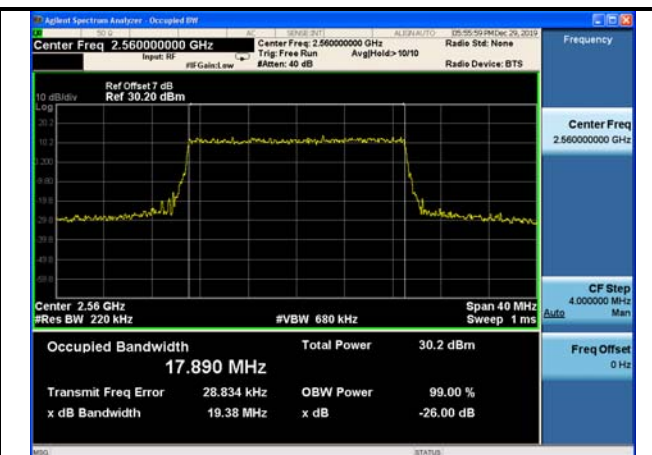


Fig.34

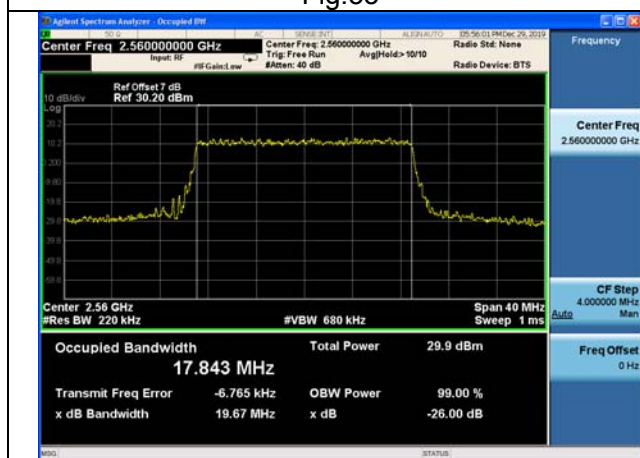


Fig.35

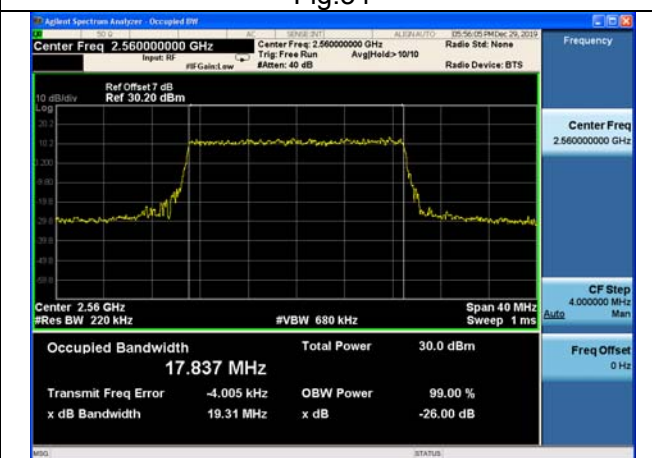


Fig.36

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
7	2535	21100	5	1	0	Fig.1	Fig.2	Fig.3
			10	1	0	Fig.4	Fig.5	Fig.6
			15	1	0	Fig.7	Fig.8	Fig.9
			20	1	0	Fig.10	Fig.11	Fig.12



Fig.1



Fig.2

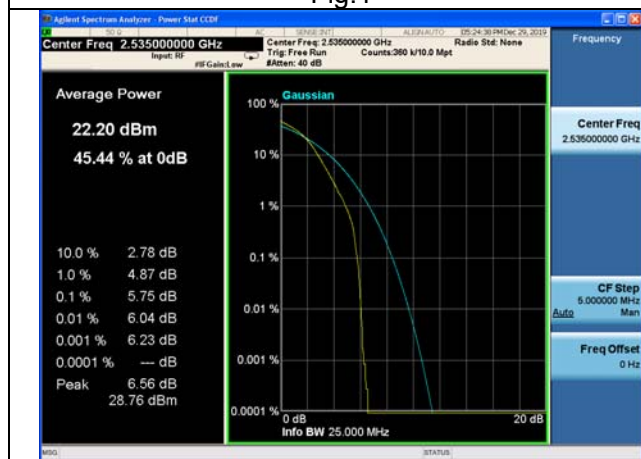


Fig.3



Fig.4



Fig.5



Fig.6



Fig.7



Fig.8



Fig.9



Fig.10

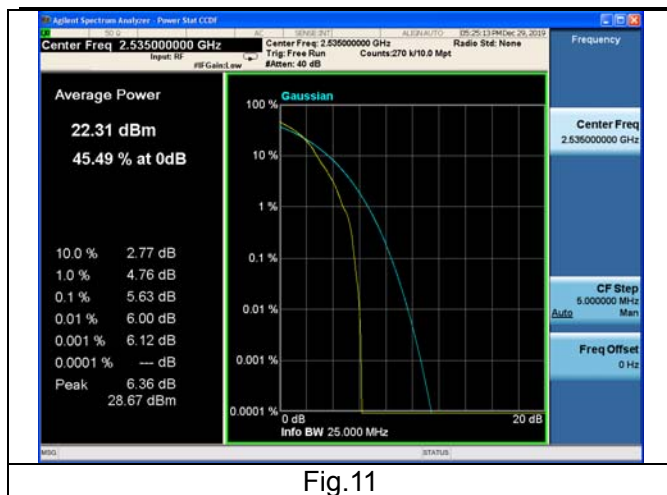


Fig.11

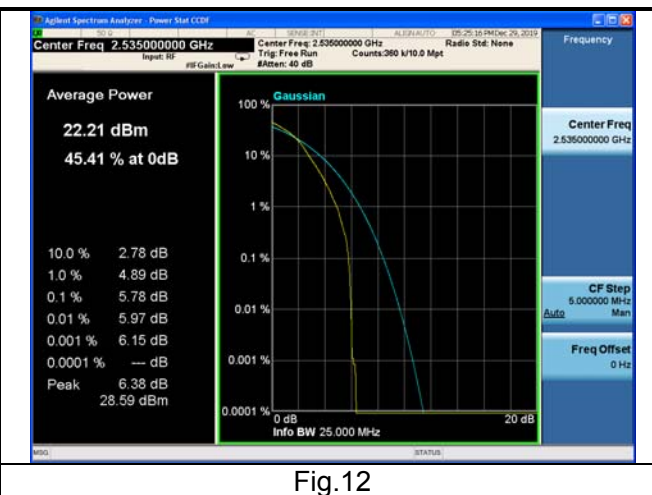


Fig.12

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
7	2510	20850	20	1	0	Fig.1-2
	2535	21100	20	1	0	Fig.3-4
	2560	21350	20	1	0	Fig.5-6

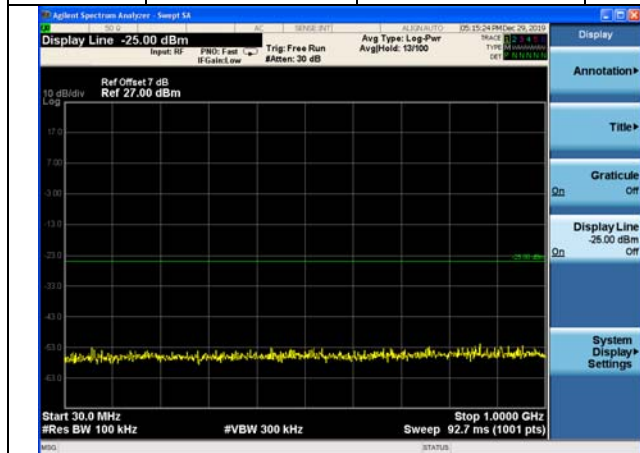


Fig.1



Fig.2

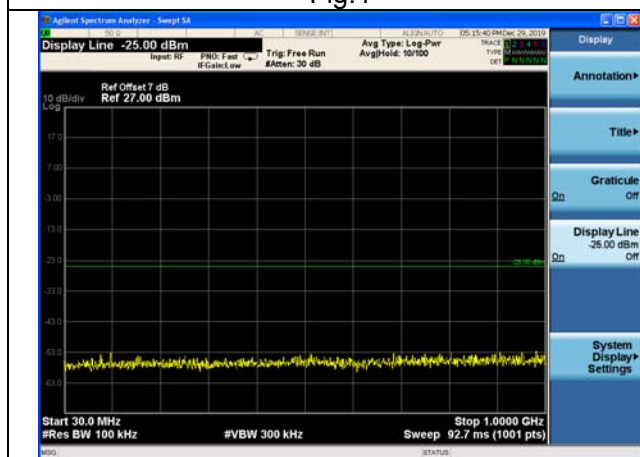


Fig3



Fig4

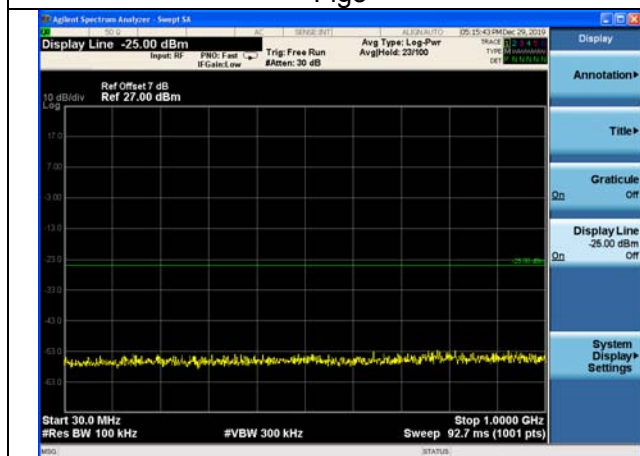


Fig5



Fig6

5 Band Edges Compliance

Test result

Test Result						
Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
7	2502.5	20775	5	1	0	Fig.1
				25	0	Fig.2
	2567.5	21425		1	24	Fig.3
				25	0	Fig.4
	2505	20800	10	1	0	Fig.5
				50	0	Fig.6
	2565	21400		1	49	Fig.7
				50	0	Fig.8
	2507.5	20825	15	1	0	Fig.9
				75	0	Fig.10
	2562.5	21375		1	74	Fig.11
				75	0	Fig.12
	2510	20850	20	1	0	Fig.13
				100	0	Fig.14
	2560	21350		1	99	Fig.15
				100	0	Fig.16

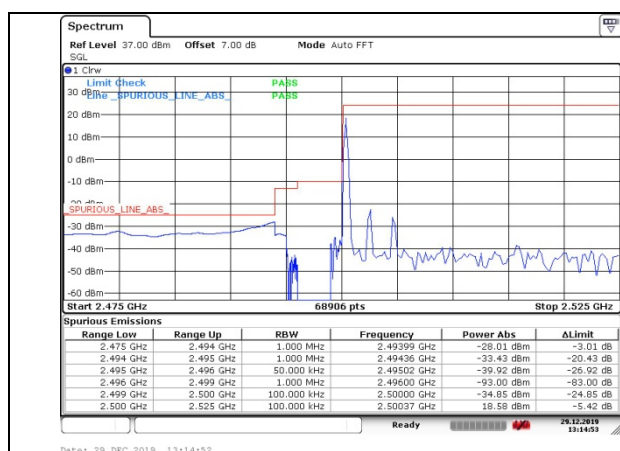


Fig.1

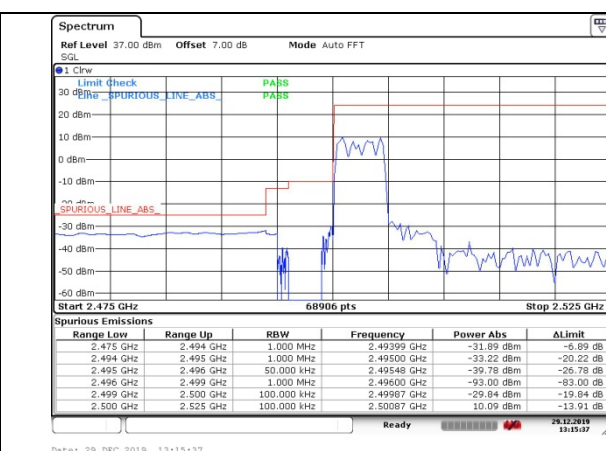


Fig.2

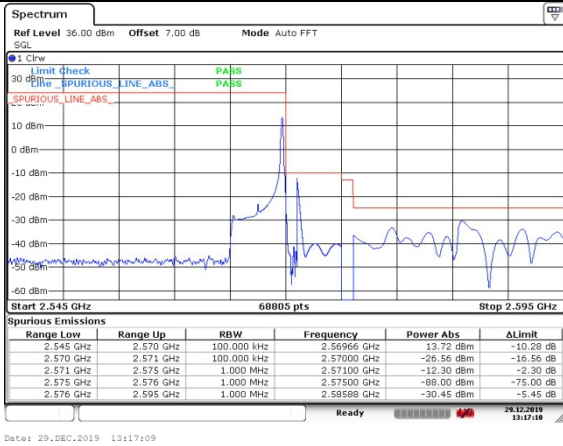


Fig.3

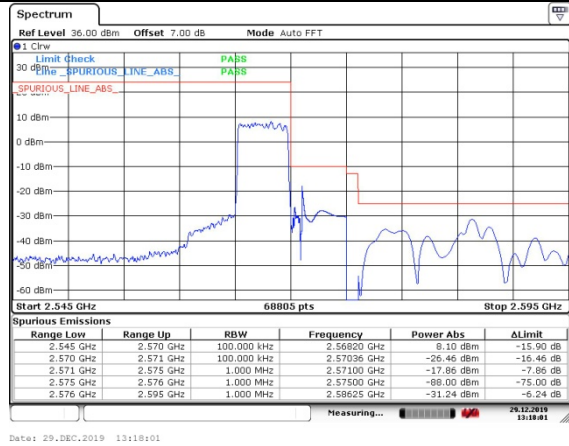


Fig.4

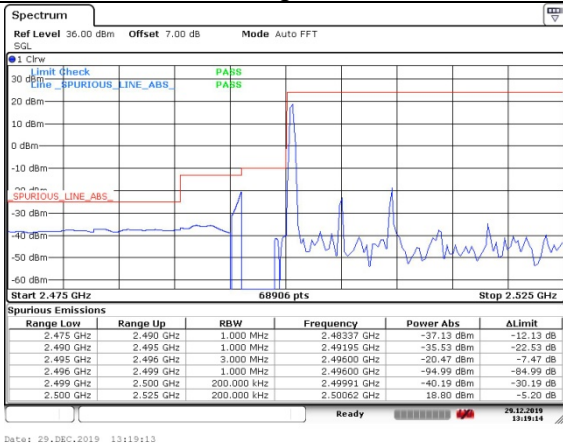


Fig.5

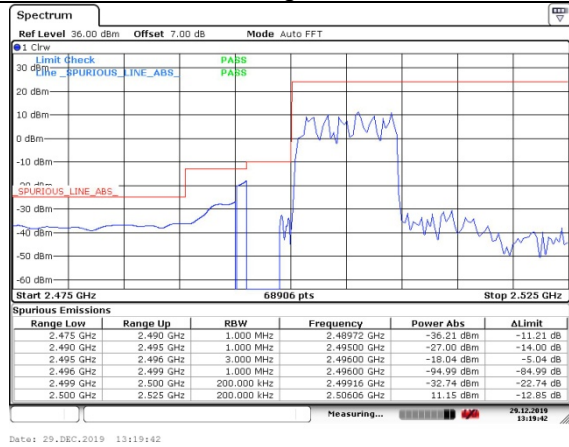


Fig.6

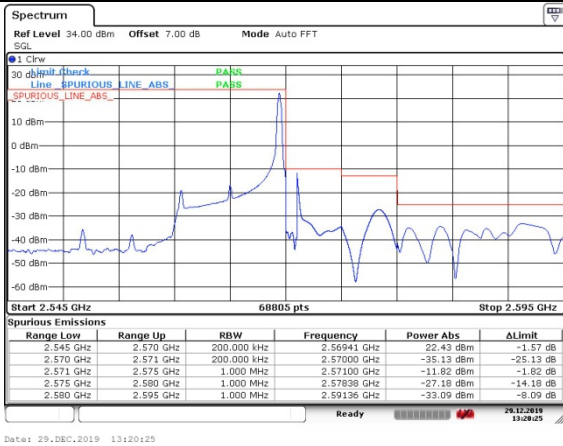


Fig.7

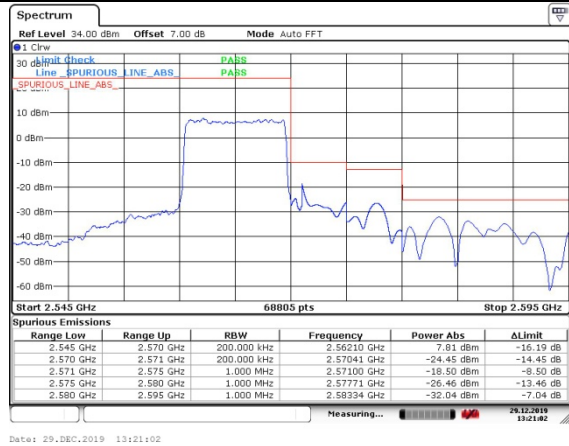


Fig.8

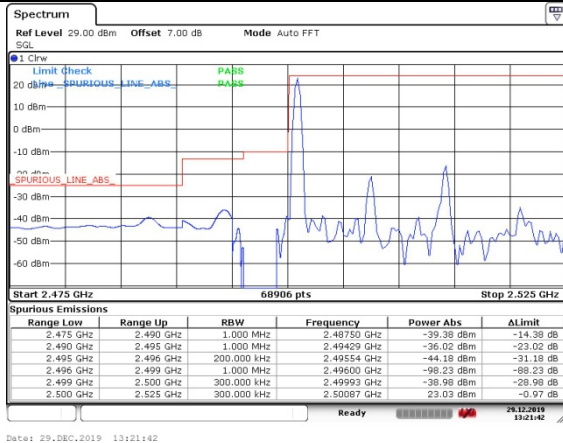


Fig.9

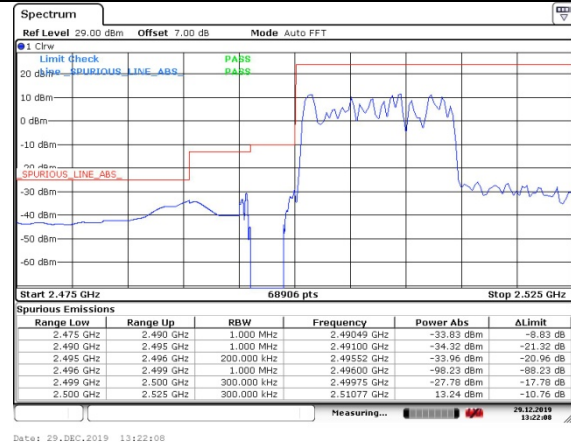


Fig.10

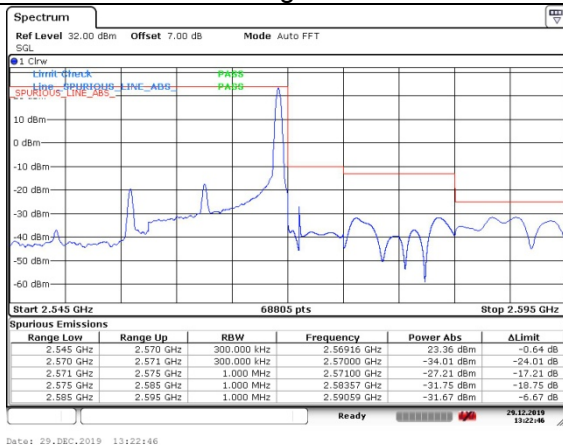


Fig.11

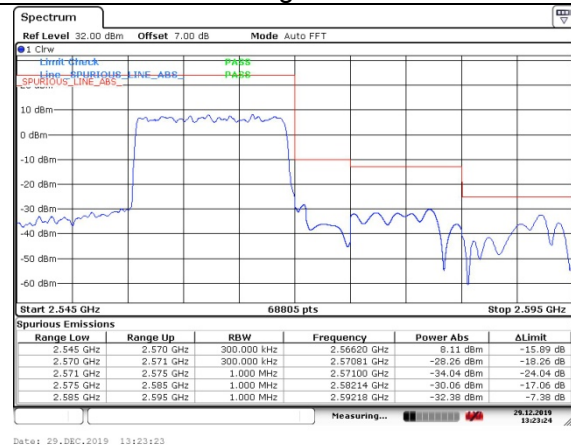


Fig.12

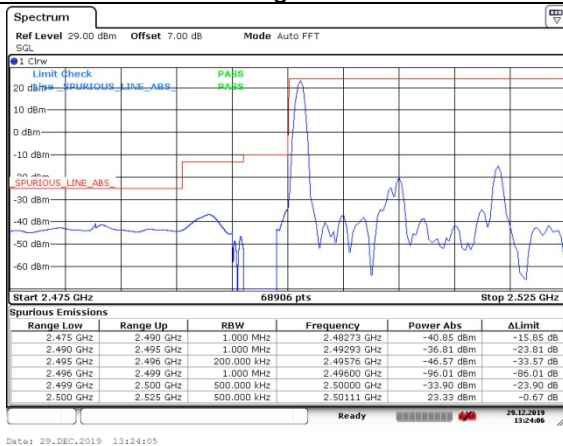


Fig.13

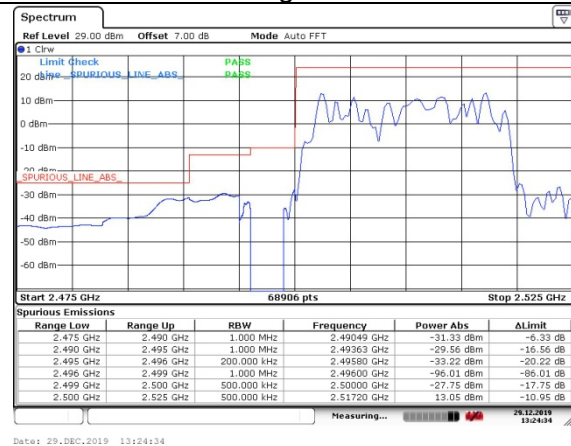
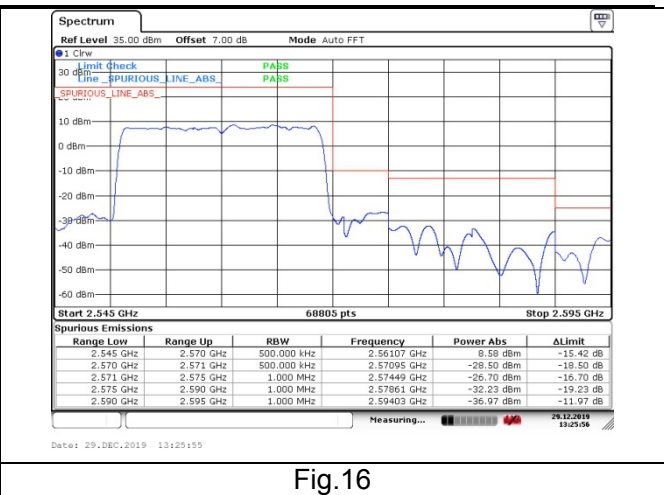
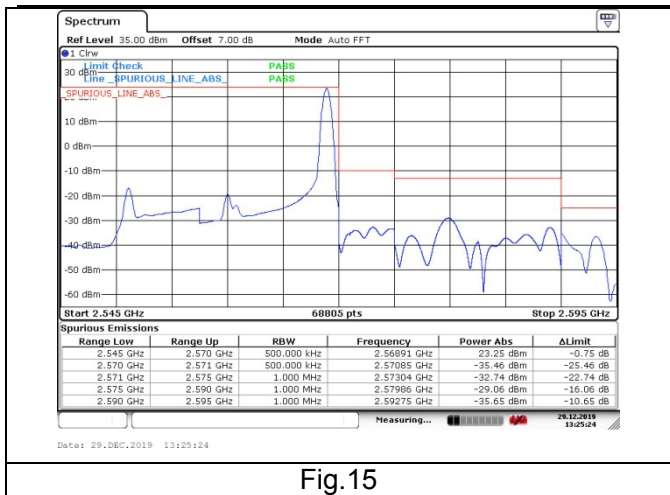


Fig.14



6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band7 Low Channel			
		5M	10M	15M	20M
0	NV	-0.025	-0.056	-0.005	-0.058
+10	NV	0.029	0.035	0.079	0.059
+20	NV	0.000	0.000	0.000	0.000
+30	NV	0.005	-0.025	-0.084	0.019
+40	NV	-0.007	0.013	-0.056	-0.067
+50	NV	-0.073	0.050	0.014	-0.058
+55	NV	-0.037	0.024	-0.088	0.054
+20	LV	-0.011	-0.027	-0.051	0.087
+20	HV	0.096	0.053	0.043	-0.057

Temperature(°C)	Voltage	Test Result (ppm) Band7 High Channel			
		5M	10M	15M	20M
0	NV	-0.043	-0.012	-0.054	0.007
+10	NV	-0.071	0.077	0.072	0.081
+20	NV	0.000	0.000	0.000	0.000
+30	NV	0.066	0.089	0.045	0.004
+40	NV	0.086	-0.051	-0.095	0.074
+50	NV	-0.088	0.098	-0.080	-0.096
+55	NV	0.046	-0.034	0.021	0.055
+20	LV	-0.083	-0.068	0.055	0.027
+20	HV	0.010	-0.067	0.069	0.015

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 12

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	699.7	23017	1.4	1	0	22.93
				1	5	22.95
				3	2	22.35
				6	0	22.10
	707.5	23095		1	0	22.76
				1	5	22.74
				3	2	22.35
				6	0	22.24
	715.3	23173		1	0	22.72
				1	5	22.70
				3	2	22.14
				6	0	22.02
16QAM	699.7	23017	1.4	1	0	22.76
				1	5	22.73
				3	2	21.65
				6	0	21.38
	707.5	23095		1	0	22.56
				1	5	22.48
				3	2	21.53
				6	0	21.35
	715.3	23173		1	0	22.47
				1	5	22.53
				3	2	21.44
				6	0	21.42
64QAM	699.7	23017	1.4	1	0	22.65
				1	5	22.67
				3	2	21.63
				6	0	21.45
	707.5	23095		1	0	22.39
				1	5	22.45
				3	2	21.50
				6	0	21.45
	715.3	23173		1	0	22.56
				1	5	22.52
				3	2	21.23
				6	0	21.25

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	700.5	23025	3	1	0	22.90
				1	14	22.98
				8	4	22.35
				15	0	22.09
	707.5	23095		1	0	22.71
				1	14	22.68
				8	4	22.37
				15	0	22.09
	714.5	23165		1	0	22.78
				1	14	22.68
				8	4	22.05
				15	0	22.11
16QAM	700.5	23025	3	1	0	22.74
				1	14	22.79
				8	4	21.52
				15	0	21.41
	707.5	23095		1	0	22.57
				1	14	22.50
				8	4	21.52
				15	0	21.42
	714.5	23165		1	0	22.53
				1	14	22.52
				8	4	21.39
				15	0	21.42
64QAM	700.5	23025	3	1	0	22.70
				1	14	22.64
				8	4	21.58
				15	0	21.50
	707.5	23095		1	0	22.42
				1	14	22.37
				8	4	21.44
				15	0	21.37
	714.5	23165		1	0	22.55
				1	14	22.45
				8	4	21.37
				15	0	21.27

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	701.5	23035	5	1	0	22.84
				1	24	22.98
				12	6	22.22
				25	0	22.09
	707.5	23095		1	0	22.70
				1	24	22.67
				12	6	22.24
				25	0	22.19
	713.5	23155		1	0	22.70
				1	24	22.70
				12	6	22.15
				25	0	22.05
16QAM	701.5	23035	5	1	0	22.66
				1	24	22.74
				12	6	21.65
				25	0	21.38
	707.5	23095		1	0	22.49
				1	24	22.43
				12	6	21.52
				25	0	21.37
	713.5	23155		1	0	22.47
				1	24	22.60
				12	6	21.39
				25	0	21.33
64QAM	701.5	23035	5	1	0	22.64
				1	24	22.71
				12	6	21.56
				25	0	21.43
	707.5	23095		1	0	22.41
				1	24	22.46
				12	6	21.40
				25	0	21.36
	713.5	23155		1	0	22.52
				1	24	22.50
				12	6	21.28
				25	0	21.32

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704	23060	10	1	0	22.98
				1	49	22.98
				24	12	22.36
				50	0	22.24
	707.5	23095		1	0	22.79
				1	49	22.79
				24	12	22.38
				50	0	22.24
	711	23130		1	0	22.82
				1	49	22.82
				24	12	22.17
				50	0	22.16
16QAM	704	23060	10	1	0	22.81
				1	49	22.81
				24	12	21.67
				50	0	21.50
	707.5	23095		1	0	22.58
				1	49	22.58
				24	12	21.61
				50	0	21.45
	711	23130		1	0	22.61
				1	49	22.61
				24	12	21.46
				50	0	21.43
64QAM	704	23060	10	1	0	22.78
				1	49	22.78
				24	12	21.64
				50	0	21.56
	707.5	23095		1	0	22.49
				1	49	22.49
				24	12	21.53
				50	0	21.47
	711	23130		1	0	22.58
				1	49	22.58
				24	12	21.37
				50	0	21.34

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	
12	699.7	23017	1.4	6	0	1.0826	Fig.1	1.0814	Fig.2	1.0831	Fig.3
	707.5	23095		6	0	1.0808	Fig.4	1.0827	Fig.5	1.0807	Fig.6
	715.3	23173		6	0	1.0842	Fig.7	1.0837	Fig.8	1.0820	Fig.9
	700.5	23025	3	15	0	2.7078	Fig.10	2.7020	Fig.11	2.7016	Fig.12
	707.5	23095		15	0	2.7029	Fig.13	2.7043	Fig.14	2.7027	Fig.15
	714.5	23165		15	0	2.7091	Fig.16	2.6952	Fig.17	2.7075	Fig.18
	701.5	23035	5	25	0	4.4842	Fig.19	4.4882	Fig.20	4.4810	Fig.21
	707.5	23095		25	0	4.4829	Fig.22	4.4721	Fig.23	4.4839	Fig.24
	713.5	23155		25	0	4.4778	Fig.25	4.4835	Fig.26	4.4719	Fig.27
	704	23060	10	50	0	8.9868	Fig.28	8.9431	Fig.29	8.9509	Fig.30
	707.5	23095		50	0	8.9537	Fig.31	8.9706	Fig.32	8.9377	Fig.33
	711	23130		50	0	8.9464	Fig.34	8.9470	Fig.35	8.9670	Fig.36

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
12	699.7	23017	1.4	6	0	1.251	Fig.1	1.222	Fig.2	1.247	Fig.3
	707.5	23095		6	0	1.254	Fig.4	1.246	Fig.5	1.261	Fig.6
	715.3	23173		6	0	1.238	Fig.7	1.264	Fig.8	1.242	Fig.9
	700.5	23025	3	15	0	3.024	Fig.10	3.018	Fig.11	3.016	Fig.12
	707.5	23095		15	0	2.999	Fig.13	3.015	Fig.14	3.031	Fig.15
	714.5	23165		15	0	3.028	Fig.16	3.015	Fig.17	3.019	Fig.18
	701.5	23035	5	25	0	5.087	Fig.19	5.081	Fig.20	4.922	Fig.21
	707.5	23095		25	0	5.078	Fig.22	5.151	Fig.23	5.132	Fig.24
	713.5	23155		25	0	5.065	Fig.25	4.857	Fig.26	5.025	Fig.27
	704	23060	10	50	0	9.874	Fig.28	9.779	Fig.29	9.810	Fig.30
	707.5	23095		50	0	9.842	Fig.31	9.882	Fig.32	9.788	Fig.33
	711	23130		50	0	9.865	Fig.34	9.875	Fig.35	9.925	Fig.36

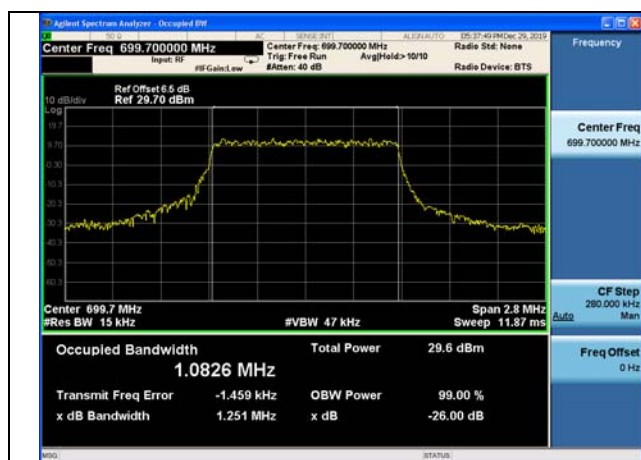


Fig.1

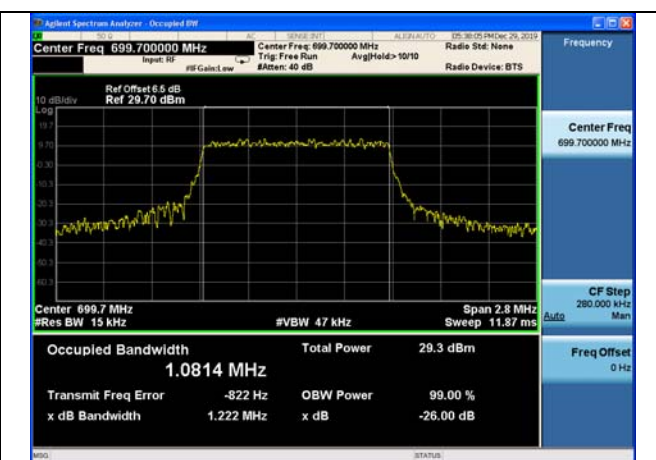


Fig.2

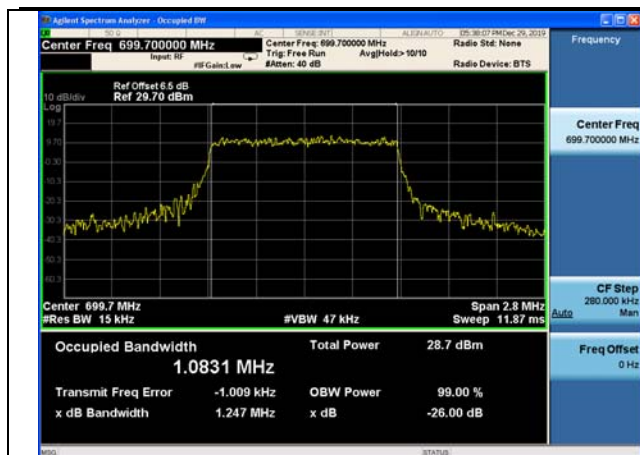


Fig.3

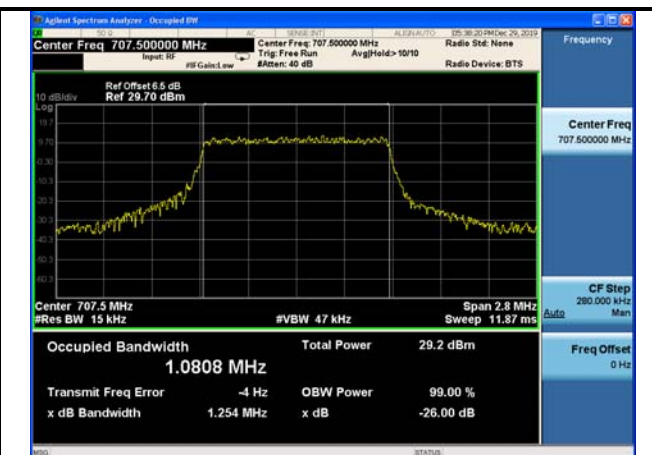


Fig.4

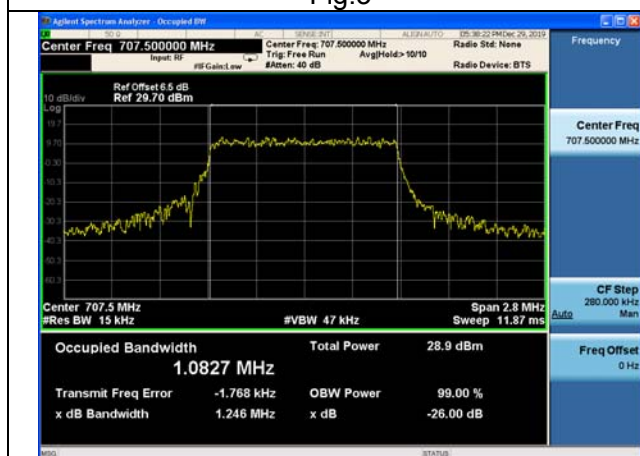


Fig.5

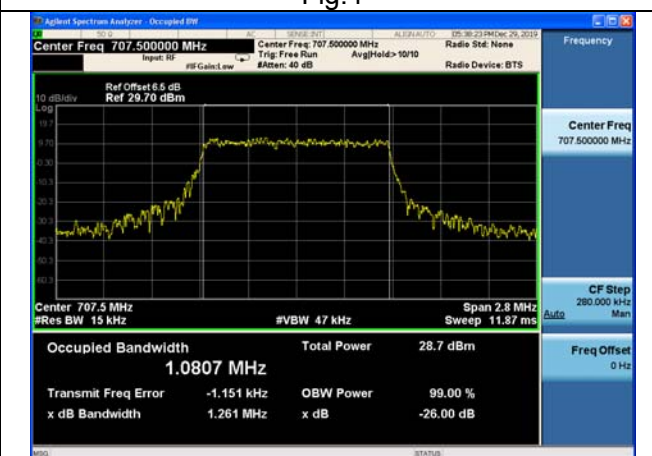


Fig.6

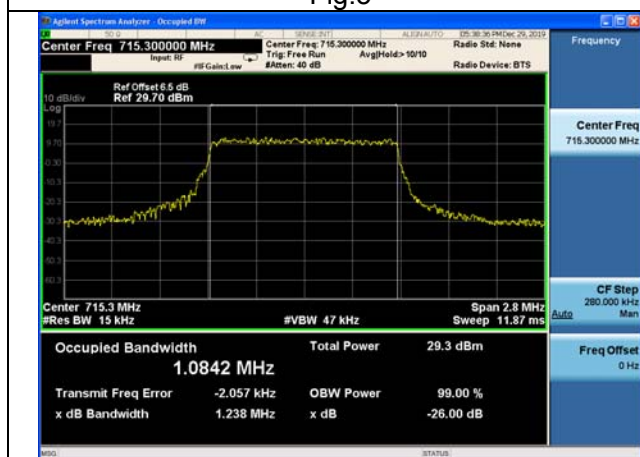


Fig.7



Fig.8

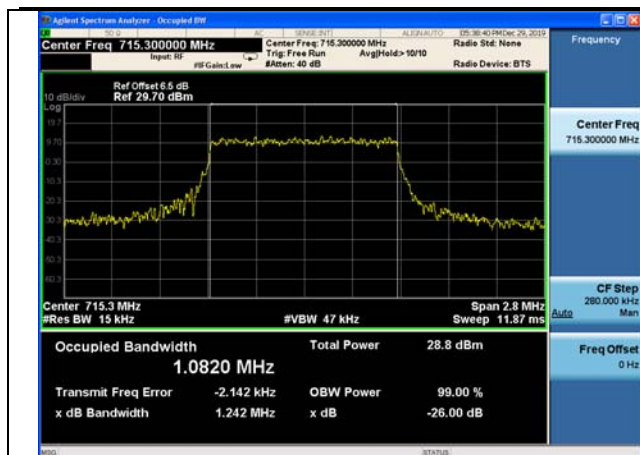


Fig.9

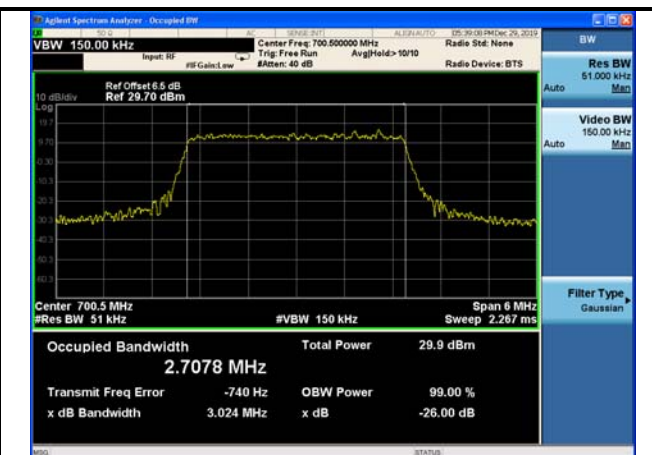


Fig.10



Fig.11

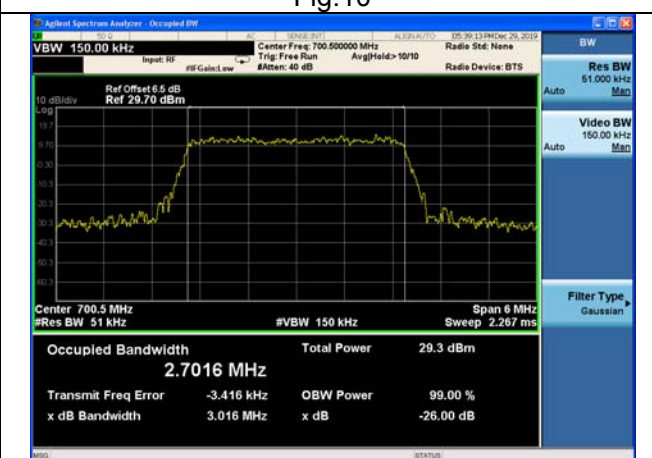


Fig.12

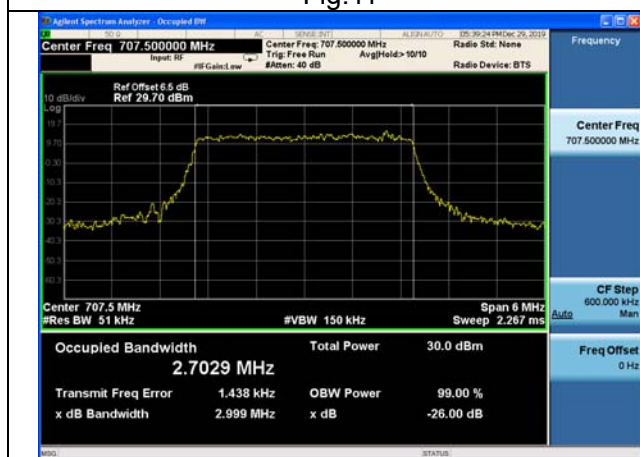


Fig.13

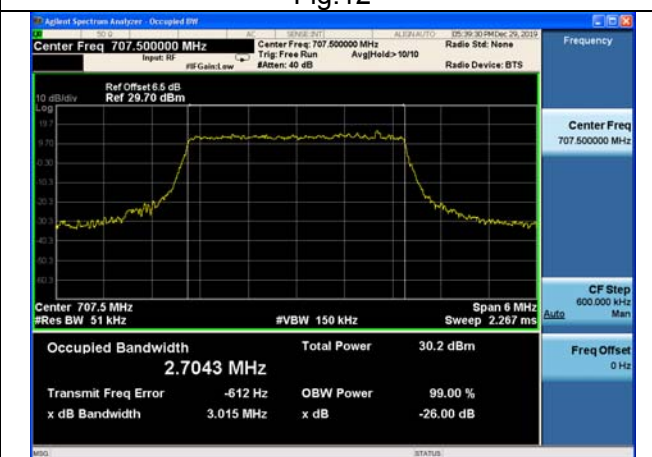


Fig.14

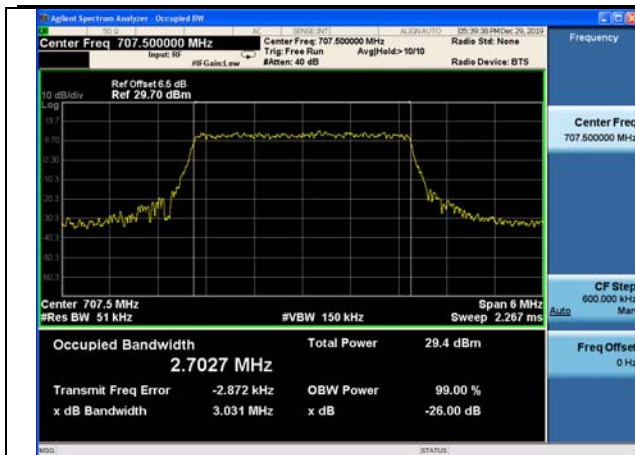


Fig.15

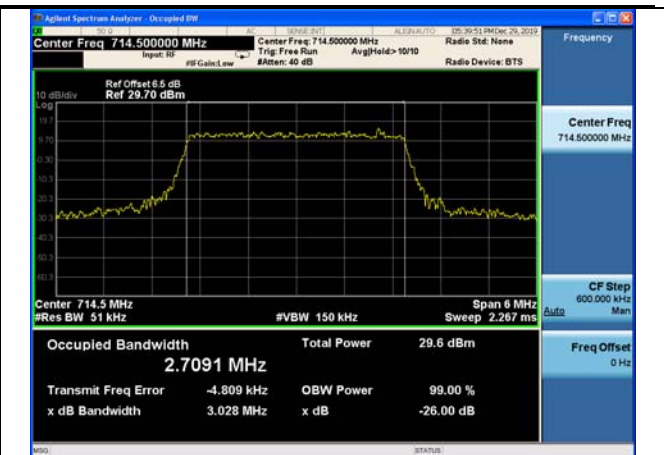


Fig.16

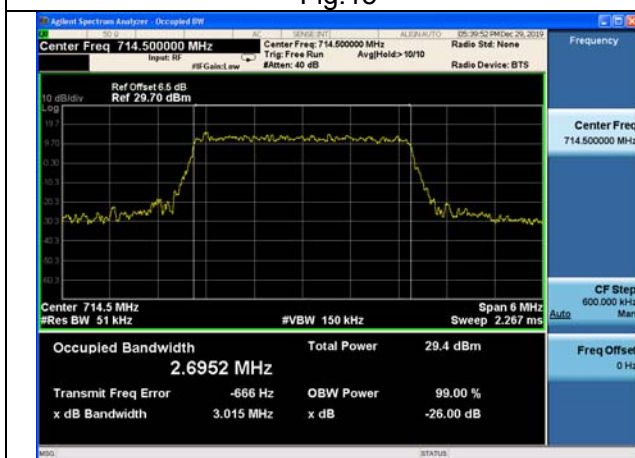


Fig.17

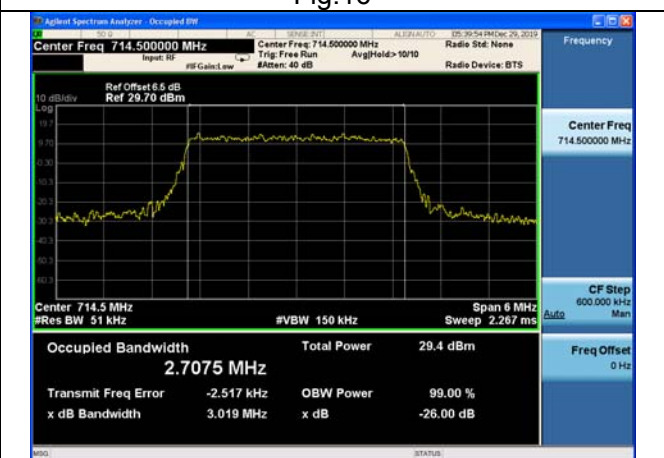


Fig.18

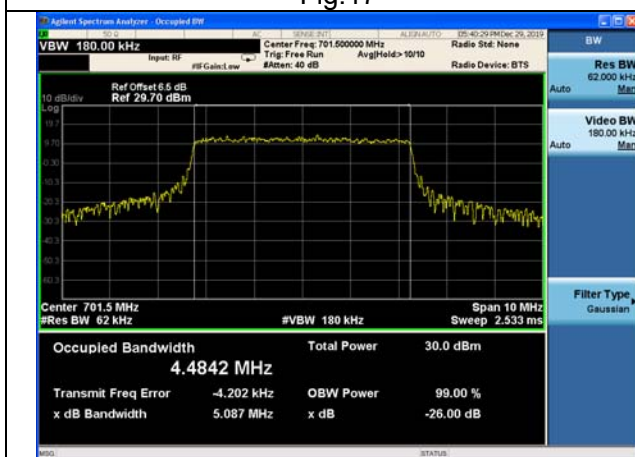


Fig.19

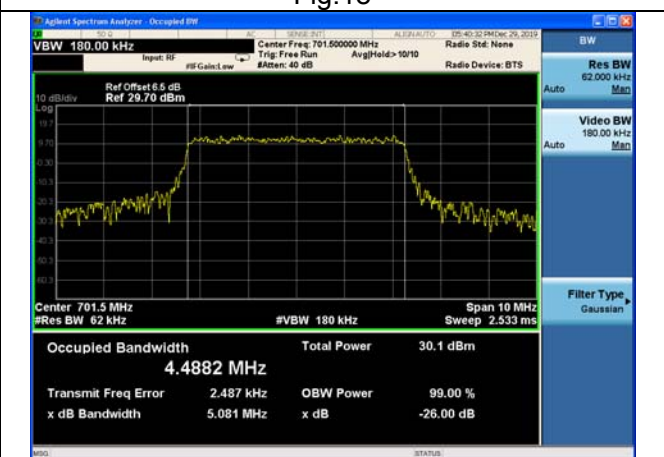


Fig.20

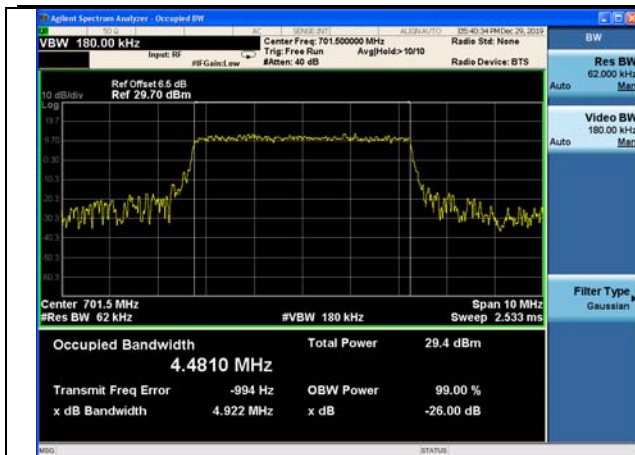


Fig.21

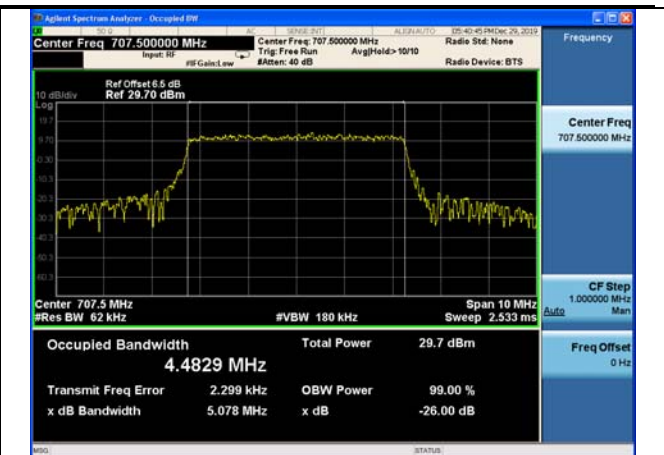


Fig.22

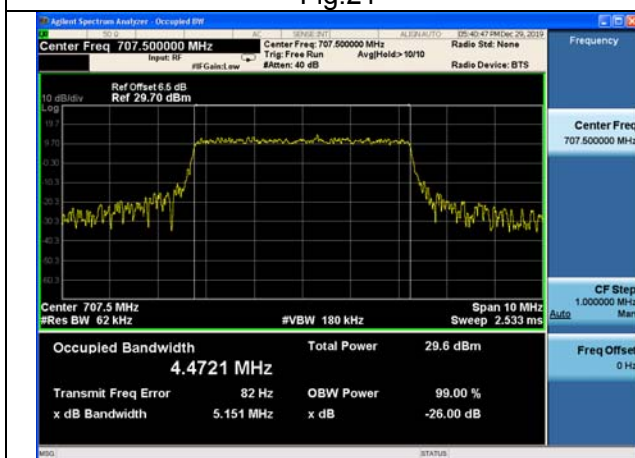


Fig.23

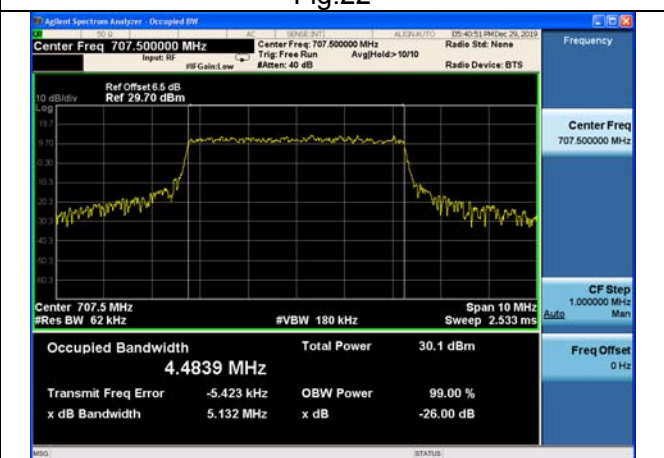


Fig.24

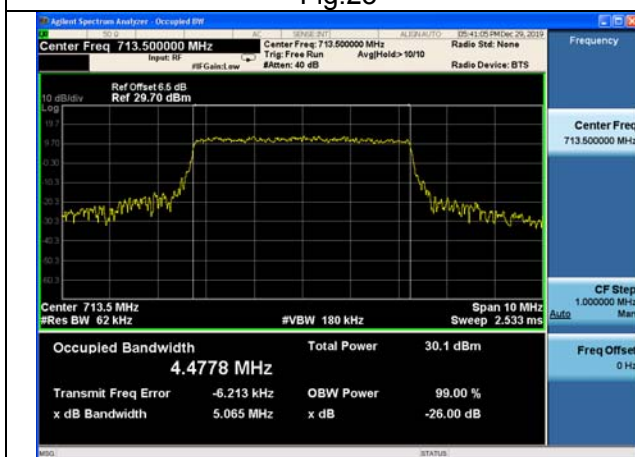


Fig.25

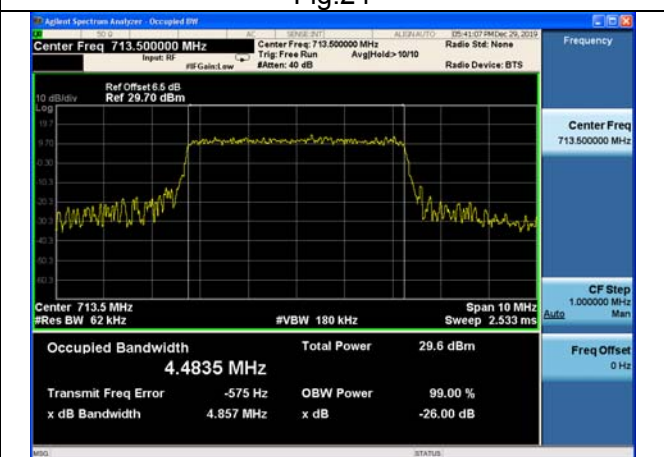


Fig.26

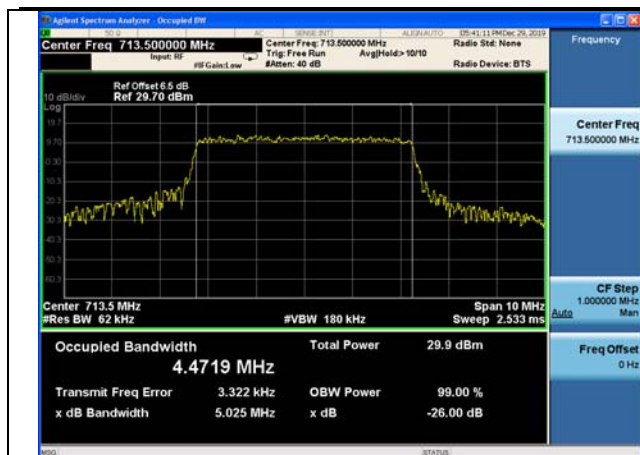


Fig.27

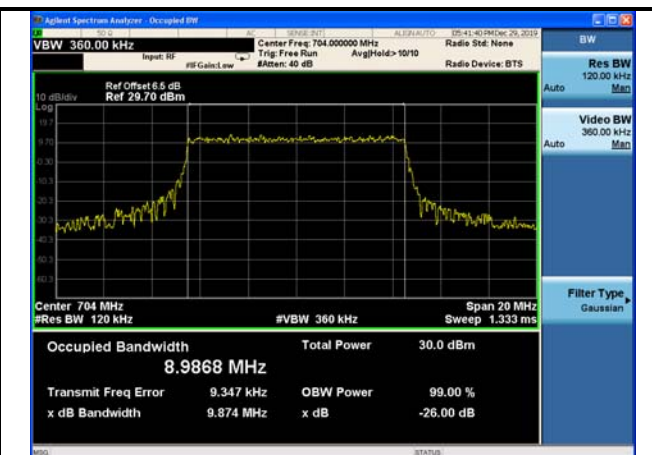


Fig.28

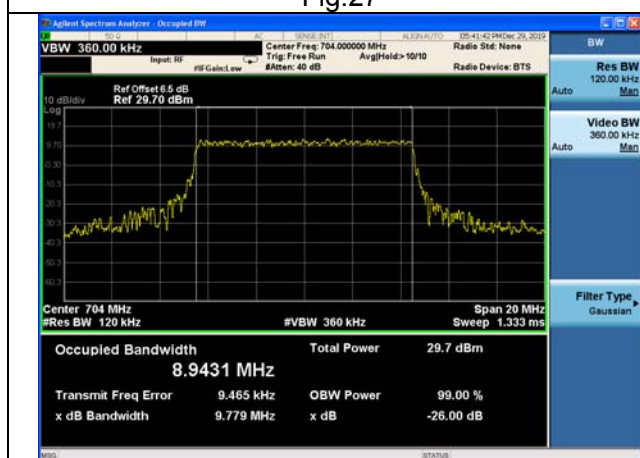


Fig.29

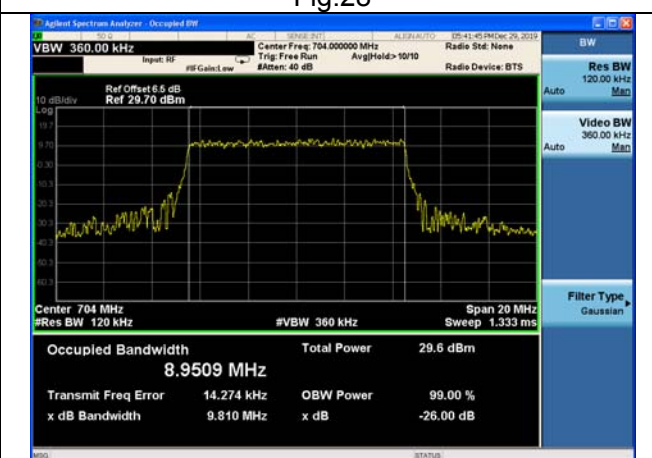


Fig.30

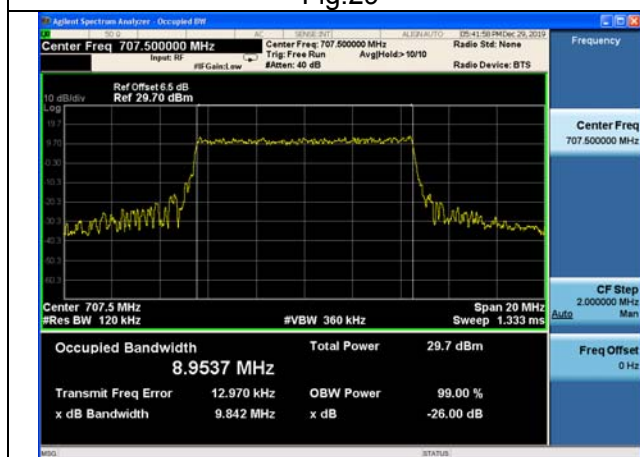


Fig.31

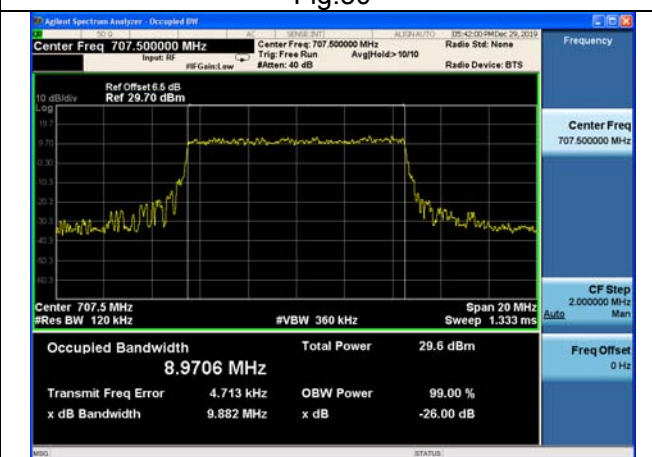


Fig.32

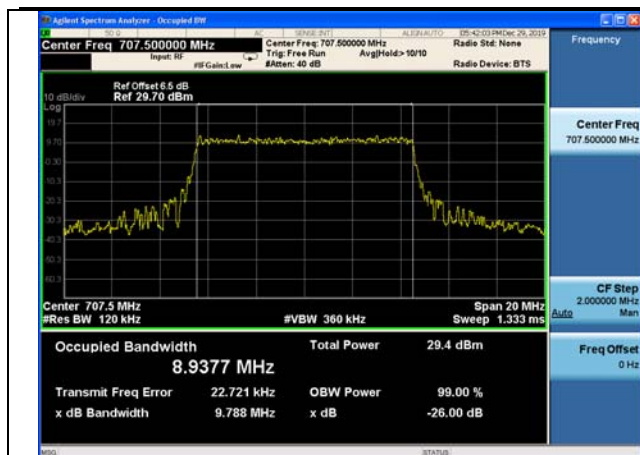


Fig.33

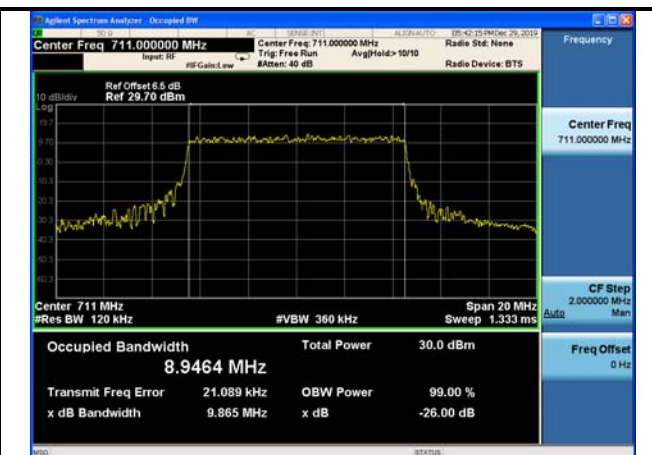


Fig.34

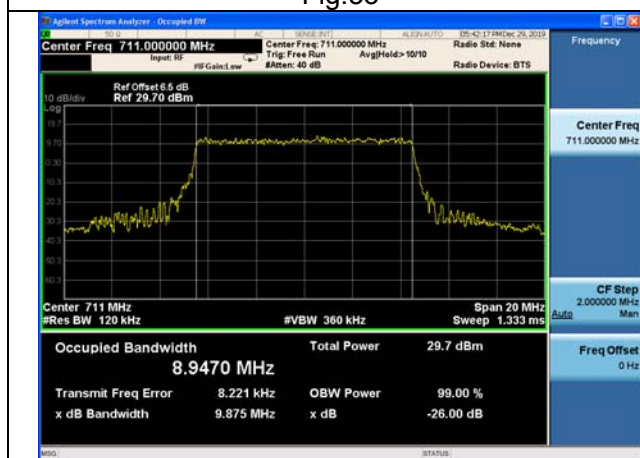


Fig.35

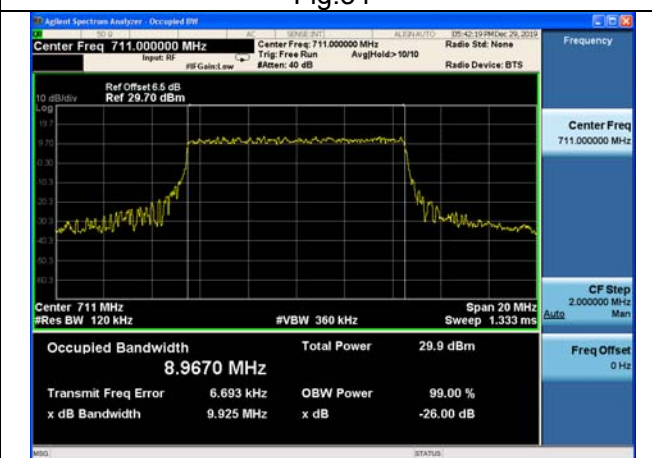


Fig.36

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
12	707.5	23095	1.4	1	0	Fig.1	Fig.2	Fig.3
			3	1	0	Fig.4	Fig.5	Fig.6
			5	1	0	Fig.7	Fig.8	Fig.9
			10	1	0	Fig.10	Fig.11	Fig.12



Fig.1

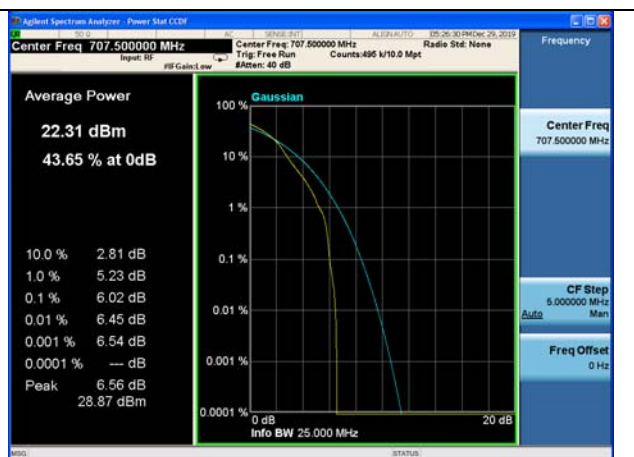


Fig.2



Fig.3



Fig.4



Fig.5



Fig.6



Fig.7



Fig.8



Fig.9



Fig.10



Fig.11

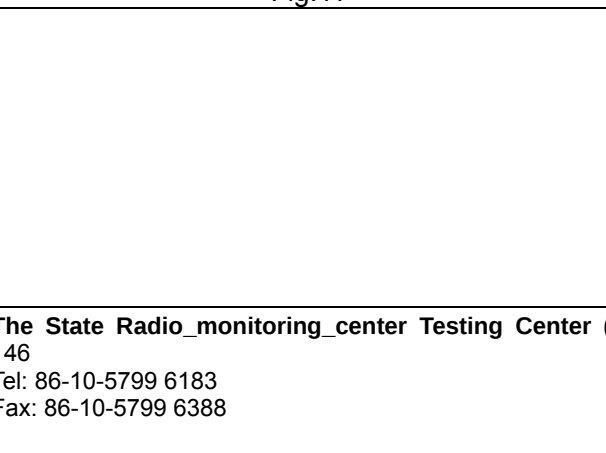
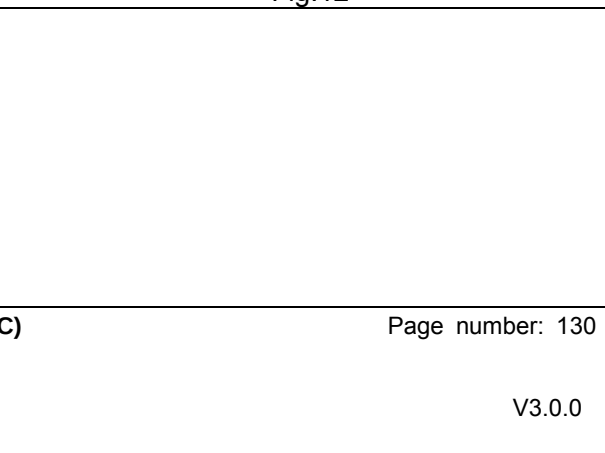


Fig.12



4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
12	704	23060	10	1	0	Fig.1-2
	707.5	23095	10	1	0	Fig.3-4
	711	23130	10	1	0	Fig.5-6

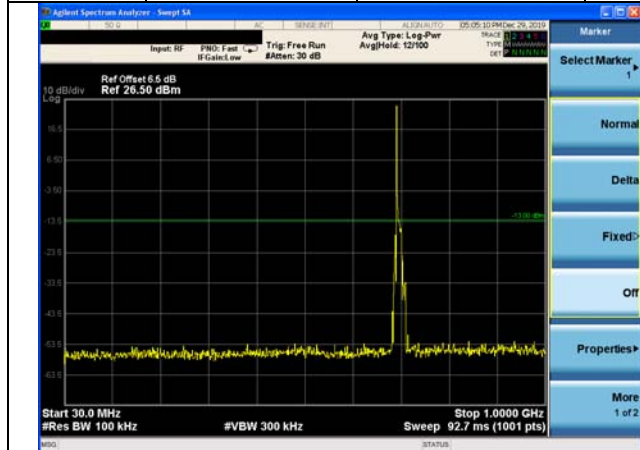


Fig.1

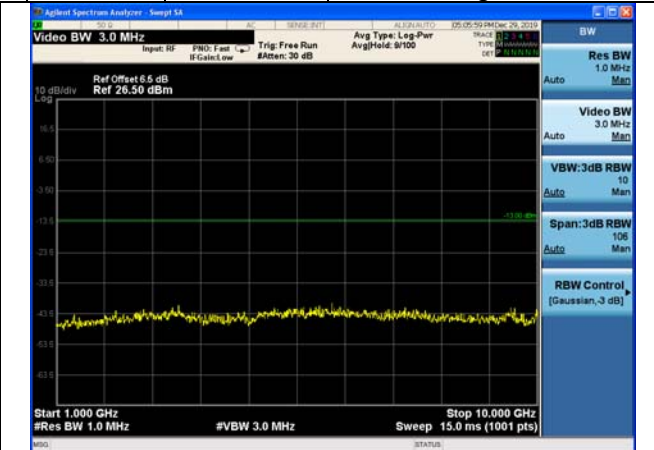


Fig.2

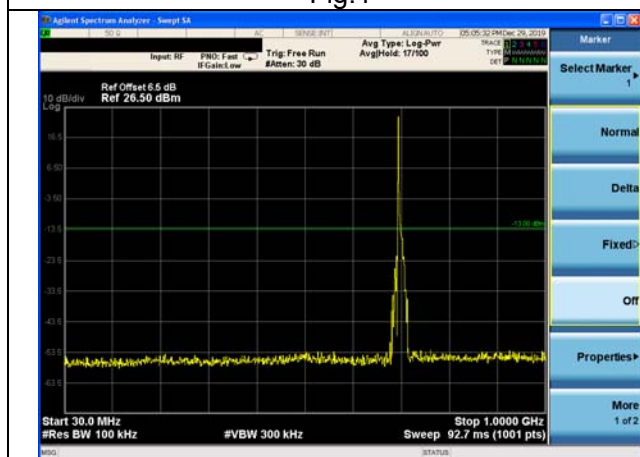


Fig3

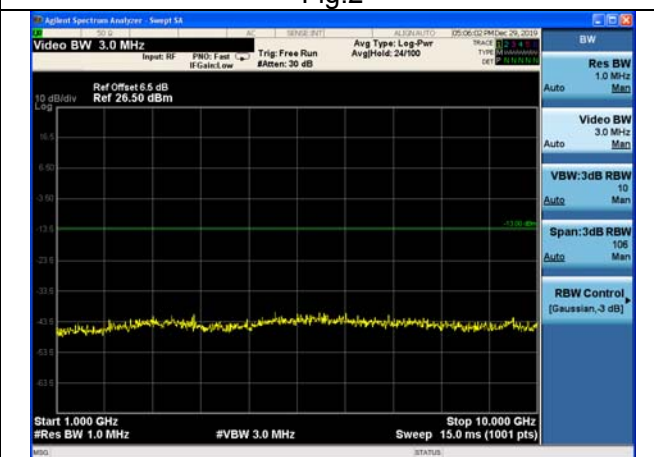


Fig4

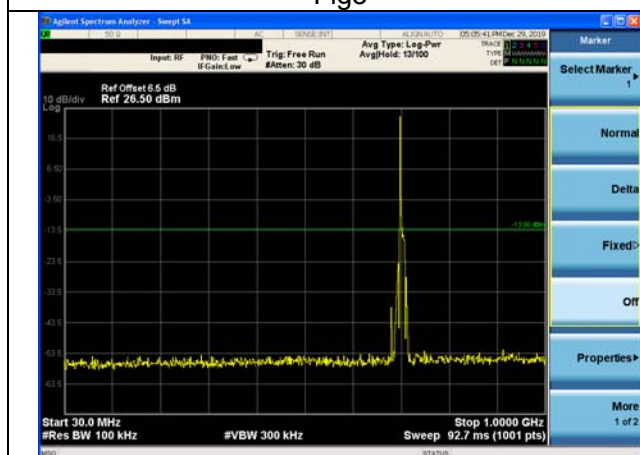


Fig5

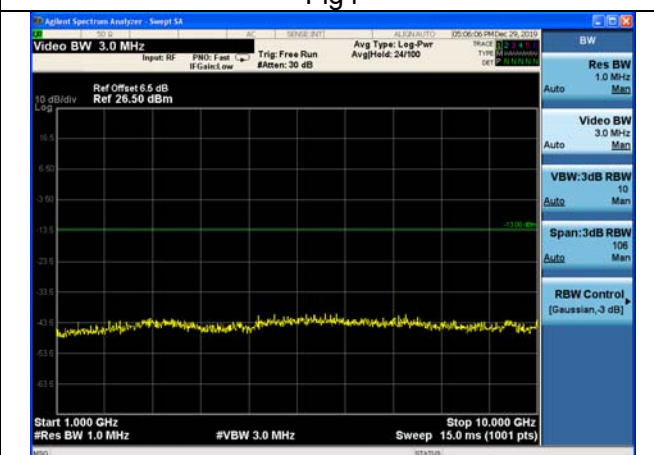


Fig6

