

Fig.11

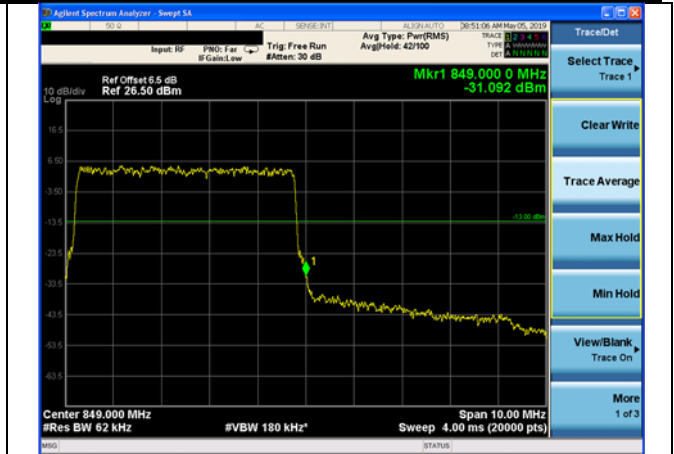


Fig.12

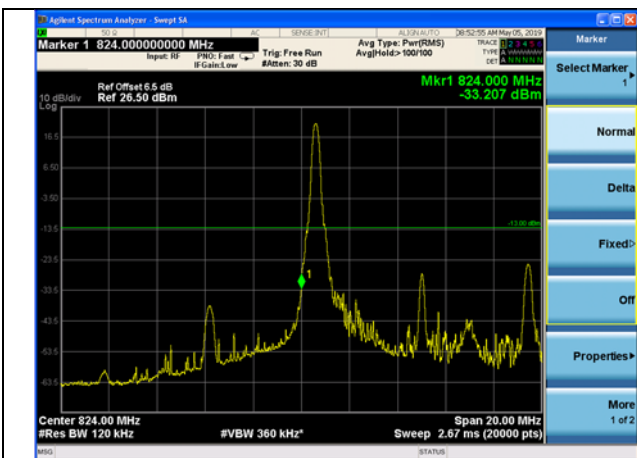


Fig.13

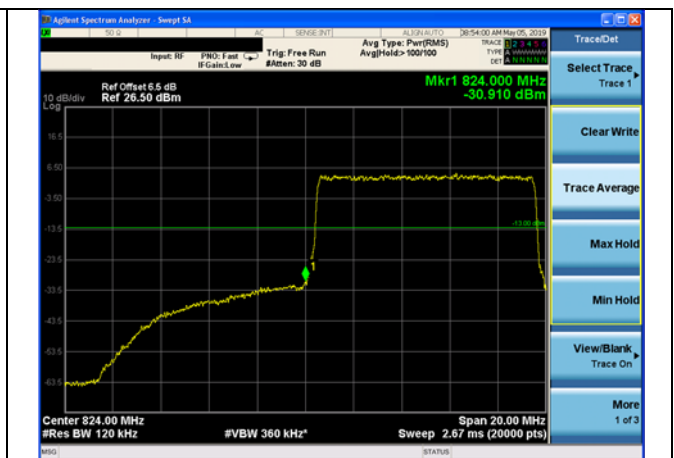


Fig.14

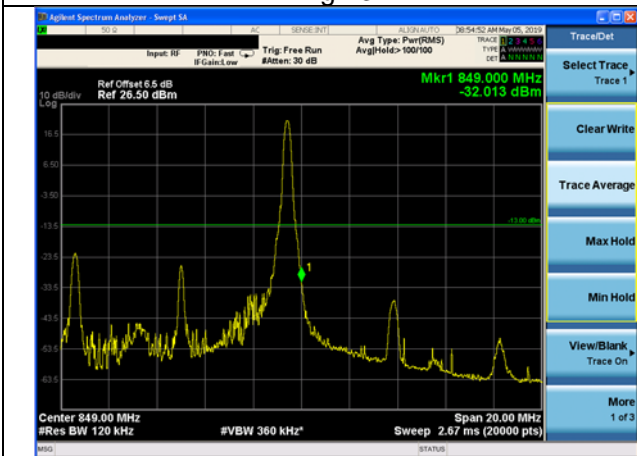


Fig.15

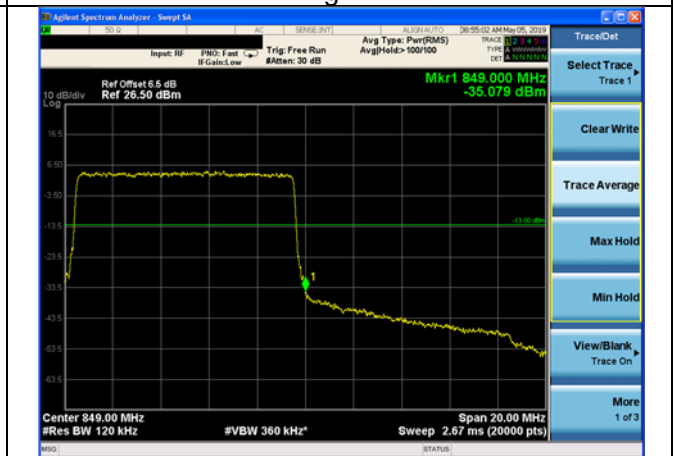


Fig.16

## 6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band5 Low Channel			
		1.4M	3M	5M	10M
-10	NV	0.076	0.010	0.100	0.033
0	NV	0.076	0.046	0.006	0.086
+10	NV	0.122	0.078	0.082	0.109
+20	NV	0.052	0.019	0.070	0.004
+30	NV	0.081	0.043	0.144	0.015
+40	NV	0.082	0.040	0.033	0.003
+50	NV	0.114	0.036	0.123	0.072
+55	NV	0.108	0.062	0.093	0.055
+20	LV	0.080	0.012	0.100	0.081
+20	HV	0.060	0.074	0.048	0.054

Temperature(°C)	Voltage	Test Result (ppm) Band5 High Channel			
		1.4M	3M	5M	10M
-10	NV	0.053	0.128	0.056	0.034
0	NV	0.029	0.099	0.033	0.066
+10	NV	0.083	0.054	0.111	0.068
+20	NV	0.093	0.024	0.101	0.050
+30	NV	0.055	0.019	0.115	0.080
+40	NV	0.069	0.142	0.097	0.037
+50	NV	0.030	0.086	0.039	0.021
+55	NV	0.103	0.148	0.061	0.023
+20	LV	0.069	0.072	0.044	0.138
+20	HV	0.082	0.142	0.063	0.017

## **APPENDIX A – TEST DATA OF CONDUCTED EMISSION**

### **LTE Band 7**

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2502.5	20775	5	1	0	23.30
				1	24	23.28
				12	6	22.31
				25	0	22.24
	2535	21100		1	0	23.34
				1	24	23.26
				12	6	22.46
				25	0	22.43
	2567.5	21425		1	0	23.04
				1	24	22.97
				12	6	22.28
				25	0	22.21
16QAM	2502.5	20775	5	1	0	22.44
				1	24	22.40
				12	6	21.24
				25	0	21.13
	2535	21100		1	0	22.15
				1	24	22.14
				12	6	21.23
				25	0	20.91
	2567.5	21425		1	0	21.99
				1	24	22.03
				12	6	21.06
				25	0	20.97
64QAM	2502.5	20775	5	1	0	22.03
				1	24	22.07
				12	6	21.01
				25	0	20.94
	2535	21100		1	0	22.11
				1	24	22.06
				12	6	20.99
				25	0	20.94
	2567.5	21425		1	0	21.97
				1	24	21.94
				12	6	20.96
				25	0	20.82

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2505	20800	10	1	0	23.24
				1	49	23.22
				24	12	22.23
				50	0	22.25
	2535	21100		1	0	23.26
				1	49	23.31
				24	12	22.53
				50	0	22.46
	2565	21400		1	0	23.04
				1	49	22.97
				24	12	22.28
				50	0	22.20
16QAM	2505	20800	10	1	0	22.40
				1	49	22.38
				24	12	21.27
				50	0	21.16
	2535	21100		1	0	22.19
				1	49	22.15
				24	12	21.24
				50	0	20.87
	2565	21400		1	0	22.01
				1	49	22.02
				24	12	21.08
				50	0	21.02
64QAM	2505	20800	10	1	0	22.06
				1	49	22.01
				24	12	21.02
				50	0	20.92
	2535	21100		1	0	22.08
				1	49	22.14
				24	12	20.96
				50	0	20.95
	2565	21400		1	0	21.97
				1	49	21.91
				24	12	20.98
				50	0	20.74

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2507.5	20825	15	1	0	23.31
				1	74	23.23
				40	18	22.31
				75	0	22.27
	2535	21100		1	0	23.33
				1	74	23.34
				40	18	22.50
				75	0	22.44
	2562.5	21375		1	0	23.01
				1	74	23.04
				40	18	22.27
				75	0	22.21
16QAM	2507.5	20825	15	1	0	22.41
				1	74	22.37
				40	18	21.21
				75	0	21.18
	2535	21100		1	0	22.19
				1	74	22.20
				40	18	21.18
				75	0	20.92
	2562.5	21375		1	0	22.02
				1	74	21.95
				40	18	21.04
				75	0	20.92
64QAM	2507.5	20825	15	1	0	22.04
				1	74	22.07
				40	18	21.02
				75	0	21.01
	2535	21100		1	0	22.10
				1	74	22.05
				40	18	20.97
				75	0	20.93
	2562.5	21375		1	0	21.93
				1	74	22.00
				40	18	20.98
				75	0	20.82

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	2510	20850	20	1	0	<b>23.31</b>
				1	99	<b>23.31</b>
				50	25	22.32
				100	0	22.28
	2535	21100		1	0	<b>23.35</b>
				1	99	<b>23.35</b>
				50	25	22.45
				100	0	22.42
	2560	21350		1	0	<b>23.05</b>
				1	99	<b>23.05</b>
				50	25	22.32
				100	0	22.22
16QAM	2510	20850	20	1	0	22.44
				1	99	22.44
				50	25	21.31
				100	0	21.18
	2535	21100		1	0	22.21
				1	99	22.21
				50	25	21.25
				100	0	20.92
	2560	21350		1	0	22.03
				1	99	22.03
				50	25	21.10
				100	0	21.02
64QAM	2510	20850	20	1	0	22.11
				1	99	22.11
				50	25	21.07
				100	0	21.01
	2535	21100		1	0	22.15
				1	99	22.15
				50	25	21.05
				100	0	21.02
	2560	21350		1	0	22.01
				1	99	22.01
				50	25	21.00
				100	0	20.82

## 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	
7	2502.5	20775	5	25	0	4.5	Fig.1	4.5	Fig.2	4.5	Fig.3
	2535	21100		25	0	4.5	Fig.4	4.5	Fig.5	4.5	Fig.6
	2567.5	21425		25	0	4.5	Fig.7	4.5	Fig.8	4.5	Fig.9
	2505	20800	10	50	0	9.0	Fig.10	9.0	Fig.11	9.1	Fig.12
	2535	21100		50	0	9.0	Fig.13	9.0	Fig.14	9.0	Fig.15
	2565	21400		50	0	9.0	Fig.16	9.0	Fig.17	9.0	Fig.18
	2507.5	20825	15	75	0	13.4	Fig.19	13.4	Fig.20	13.3	Fig.21
	2535	21100		75	0	13.4	Fig.22	13.4	Fig.23	13.4	Fig.24
	2562.5	21375		75	0	13.4	Fig.25	13.4	Fig.26	13.4	Fig.27
	2510	20850	20	100	0	17.9	Fig.28	17.9	Fig.29	17.9	Fig.30
	2535	21100		100	0	17.9	Fig.31	17.9	Fig.32	17.9	Fig.33
	2560	21350		100	0	17.9	Fig.34	17.9	Fig.35	17.9	Fig.36

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
7	2502.5	20775	5	25	0	4.9	Fig.1	4.9	Fig.2	4.9	Fig.3
	2535	21100		25	0	4.8	Fig.4	4.8	Fig.5	4.8	Fig.6
	2567.5	21425		25	0	4.9	Fig.7	4.8	Fig.8	4.8	Fig.9
	2505	20800	10	50	0	9.8	Fig.10	9.9	Fig.11	9.8	Fig.12
	2535	21100		50	0	9.8	Fig.13	9.9	Fig.14	9.9	Fig.15
	2565	21400		50	0	9.8	Fig.16	9.7	Fig.17	9.8	Fig.18
	2507.5	20825	15	75	0	14.3	Fig.19	14.2	Fig.20	14.0	Fig.21
	2535	21100		75	0	14.2	Fig.22	14.2	Fig.23	14.3	Fig.24
	2562.5	21375		75	0	14.5	Fig.25	14.3	Fig.26	14.1	Fig.27
	2510	20850	20	100	0	19.1	Fig.28	19.2	Fig.29	19.2	Fig.30
	2535	21100		100	0	19.2	Fig.31	19.0	Fig.32	19.0	Fig.33
	2560	21350		100	0	19.3	Fig.34	19.1	Fig.35	19.1	Fig.36

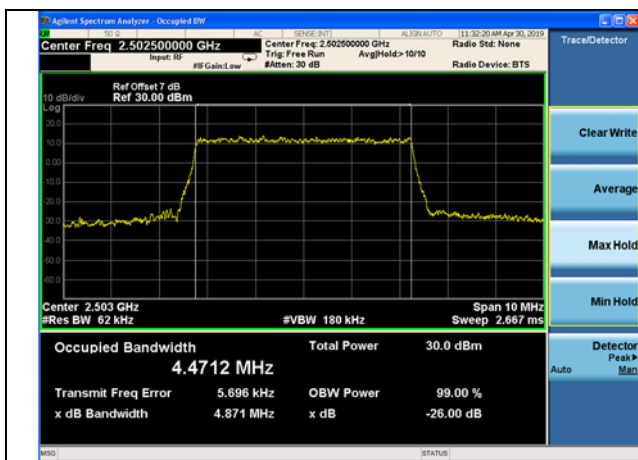


Fig.1

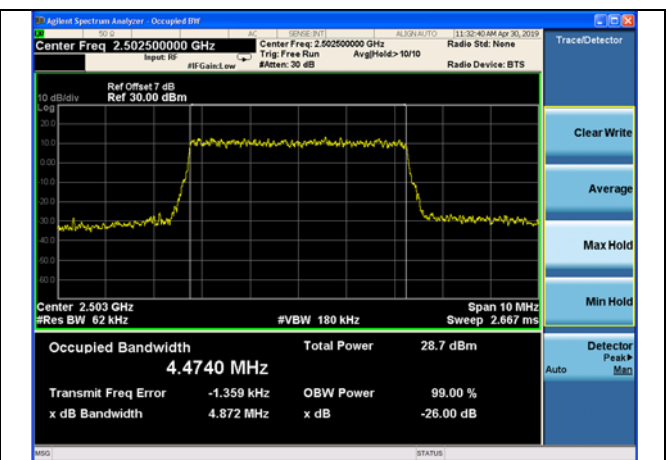


Fig.2

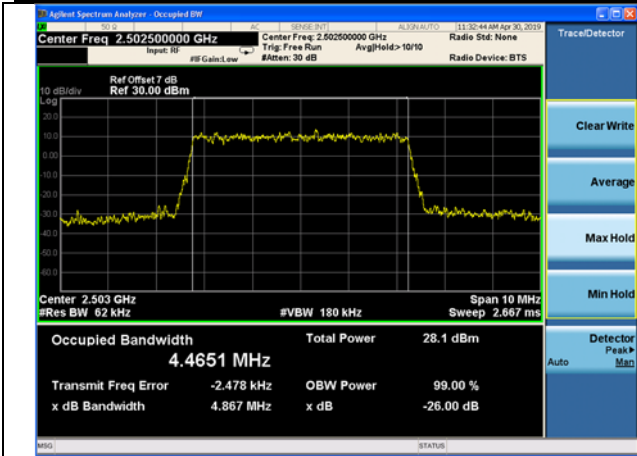


Fig.3

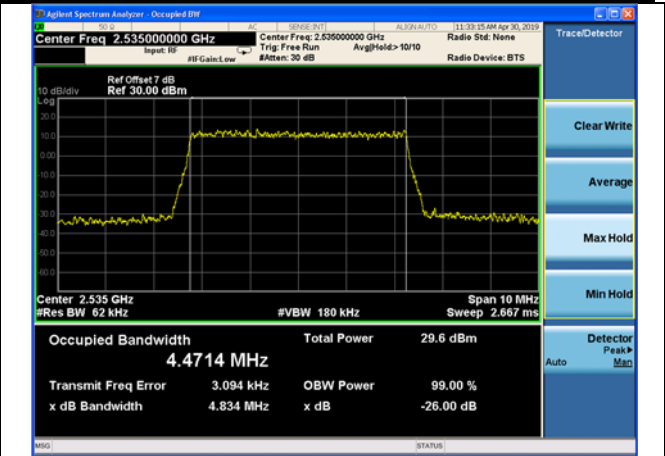


Fig.4

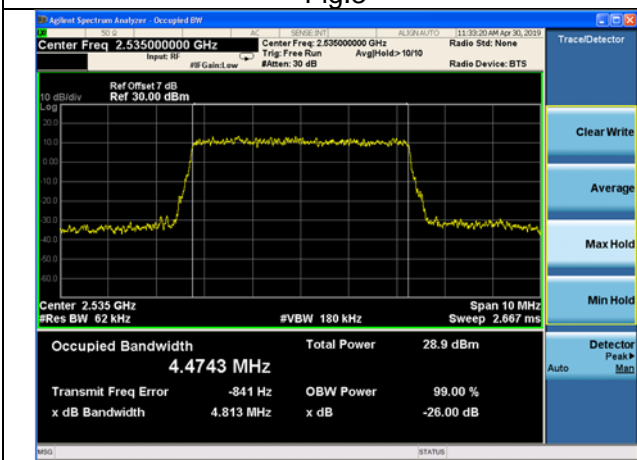


Fig.5

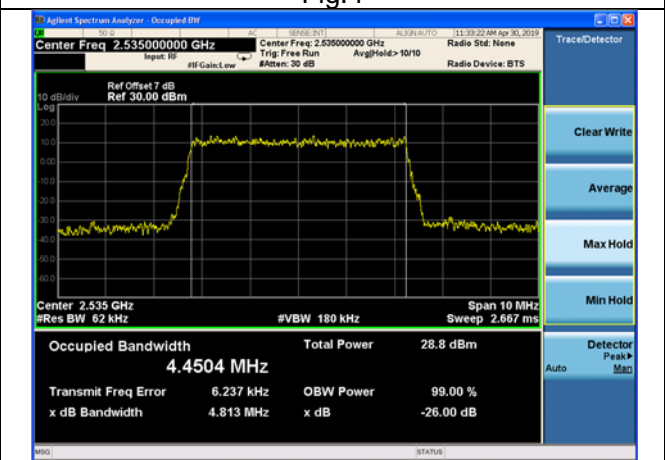


Fig.6

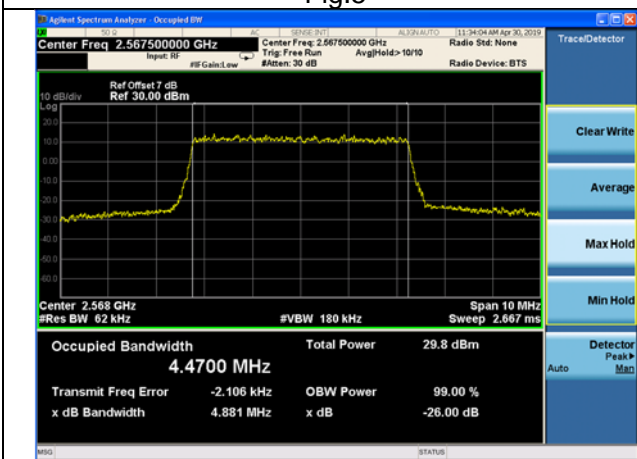


Fig.7

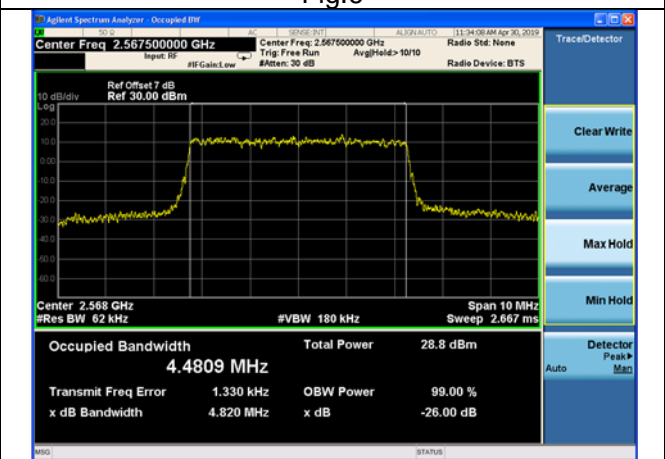


Fig.8



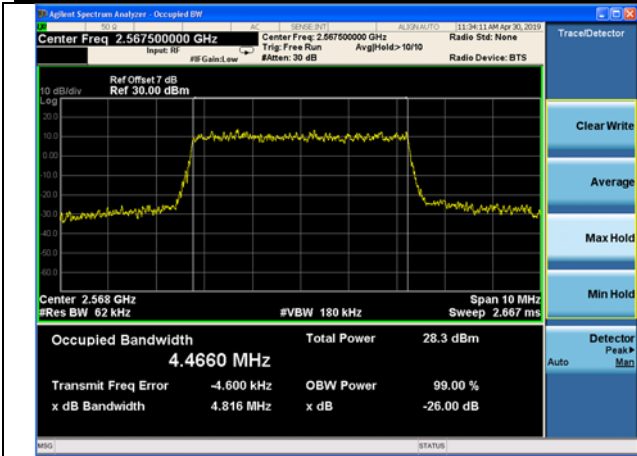


Fig.9

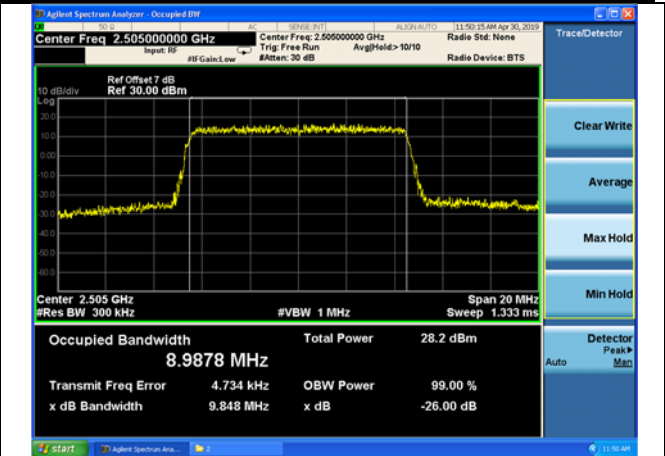


Fig.10

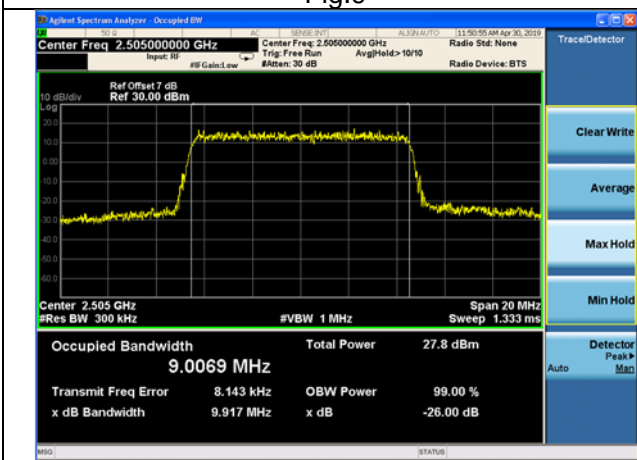


Fig.11

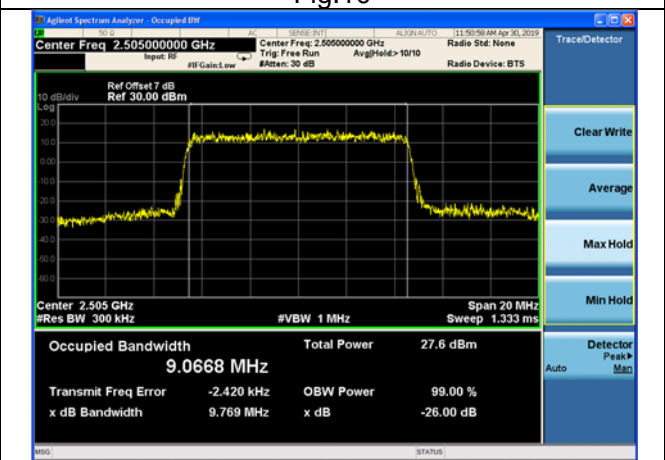


Fig.12

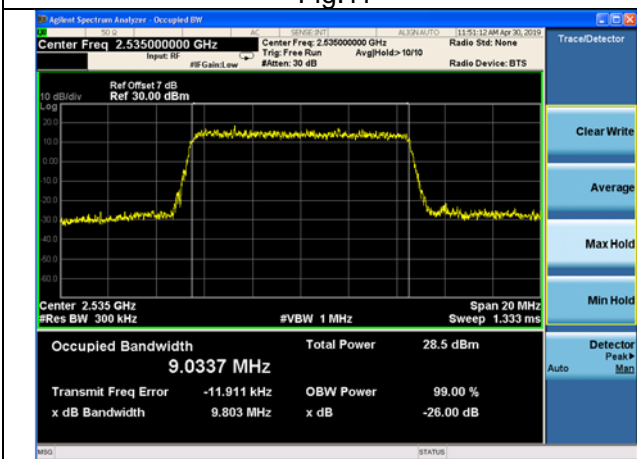


Fig.13

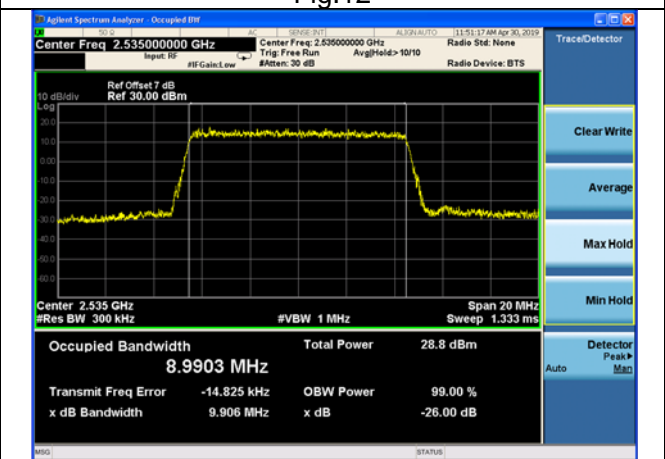


Fig.14

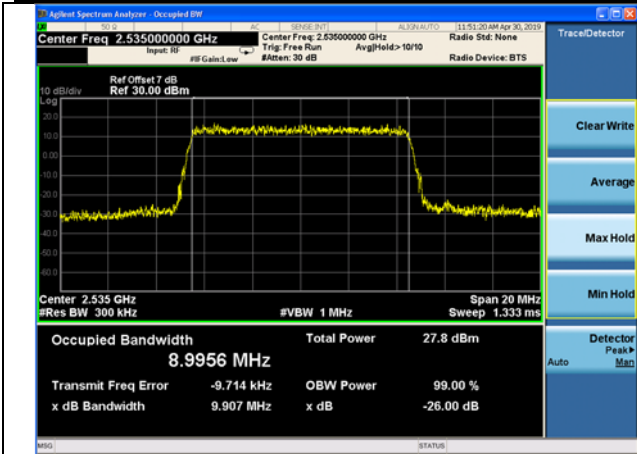


Fig.15

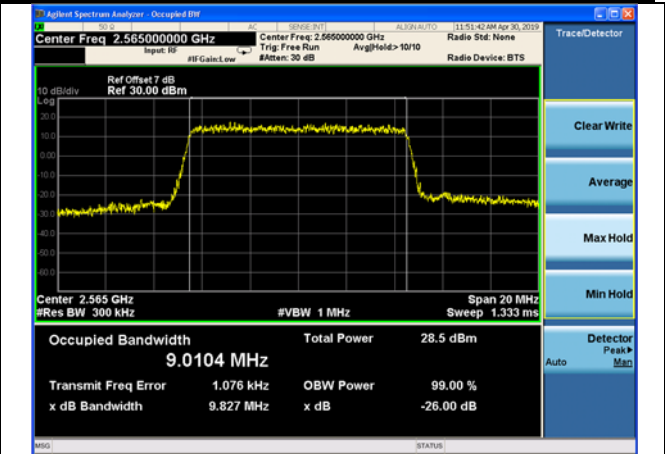


Fig.16

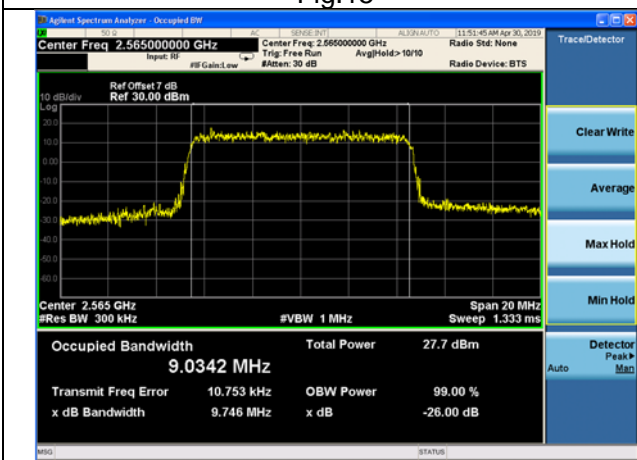


Fig.17

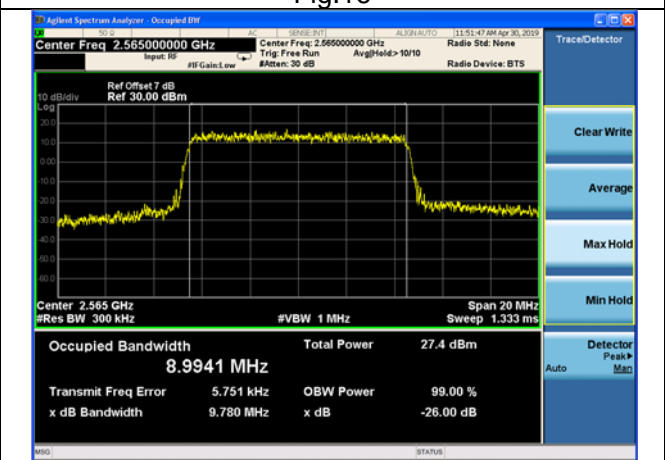


Fig.18

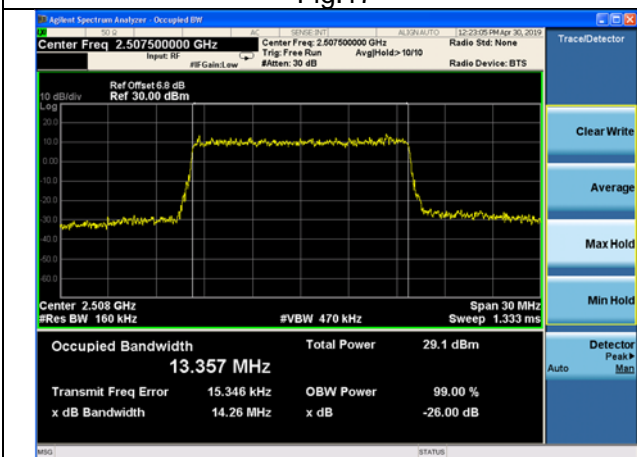


Fig.19

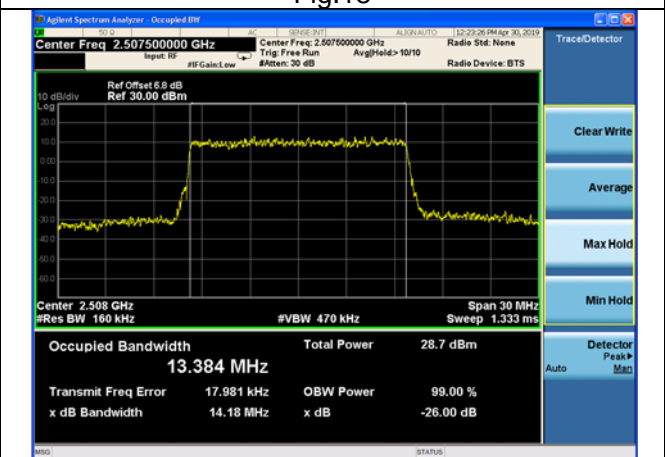


Fig.20

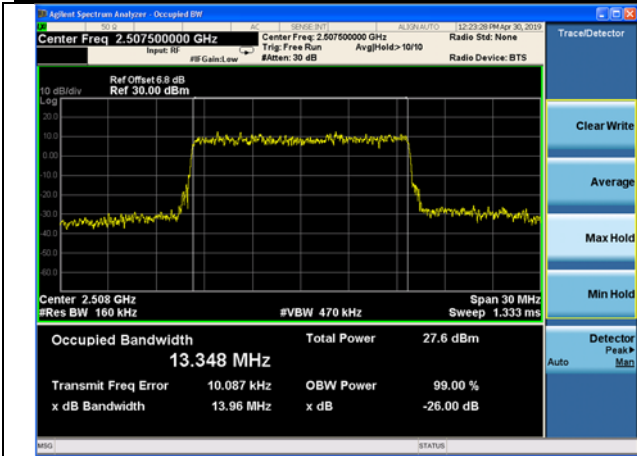


Fig.21

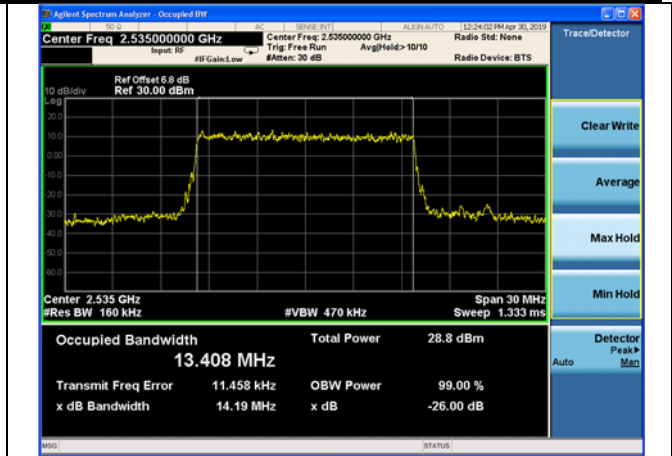


Fig.22

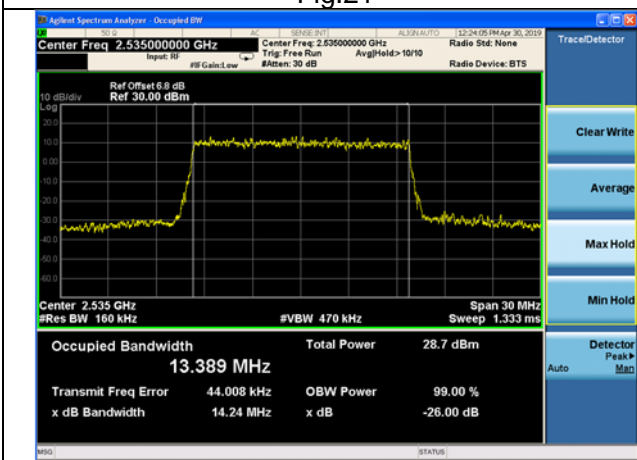


Fig.23

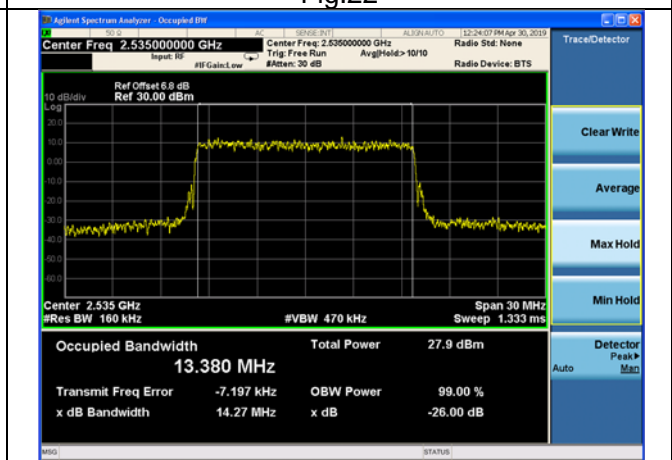


Fig.24

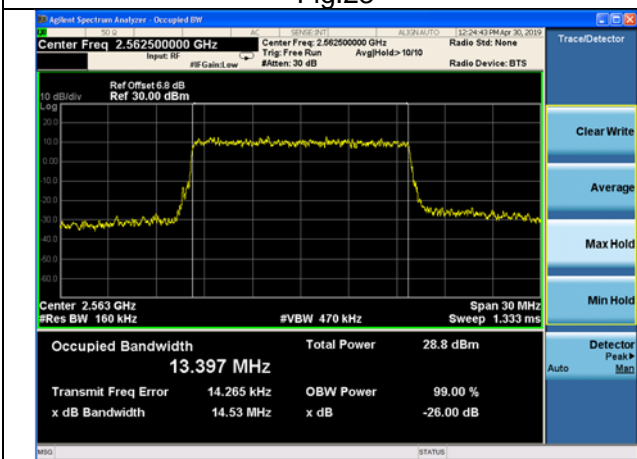


Fig.25

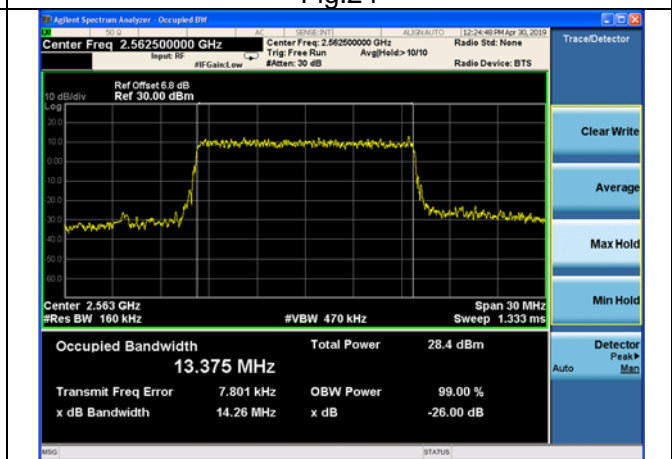


Fig.26

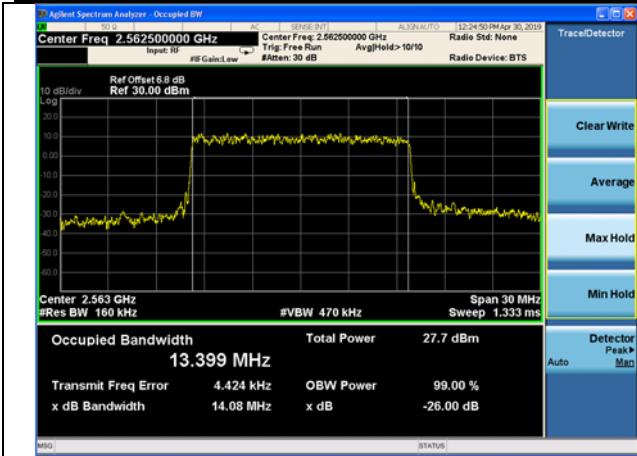


Fig.27

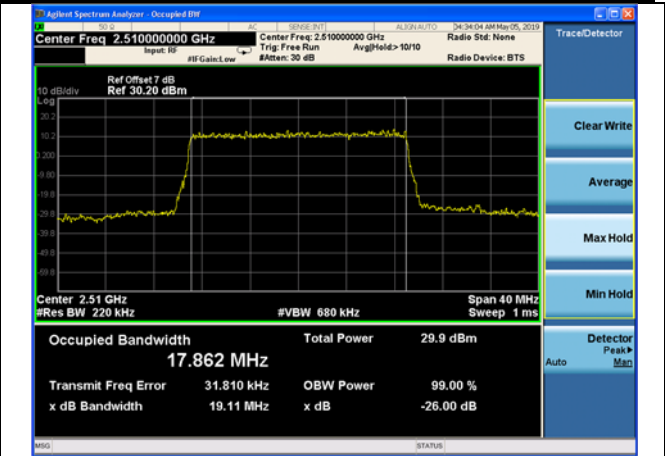


Fig.28

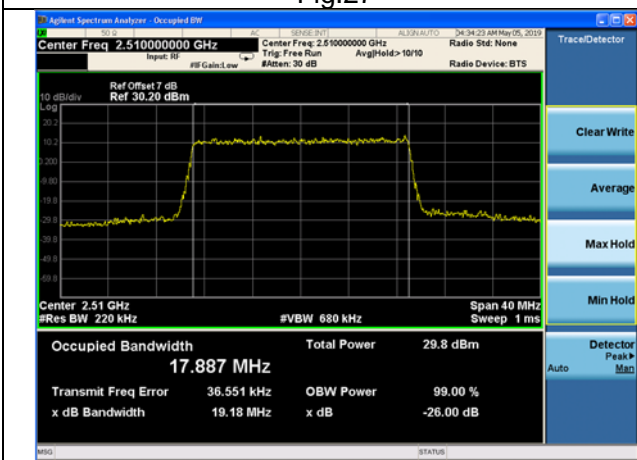


Fig.29

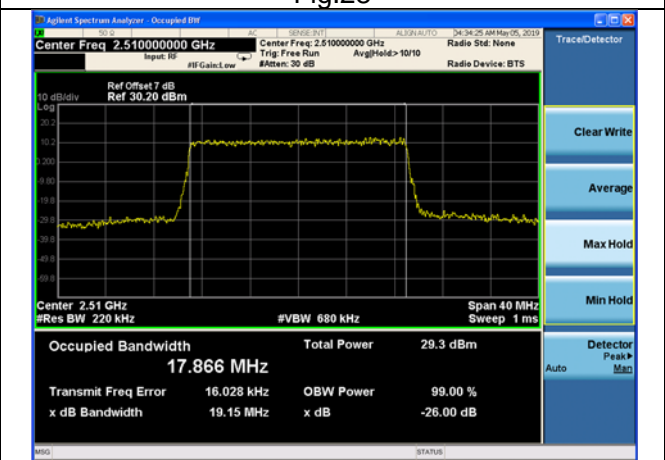


Fig.30

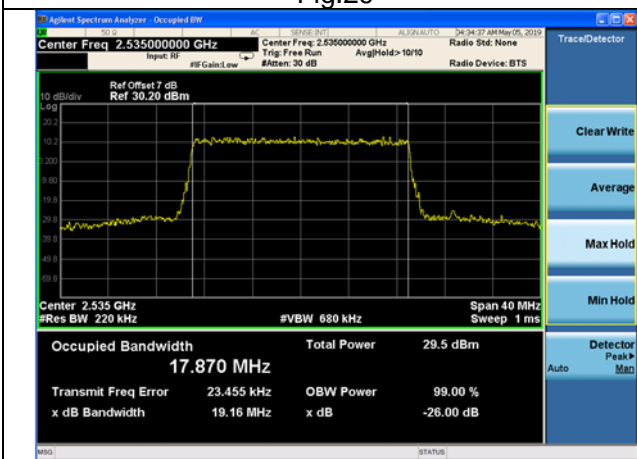


Fig.31

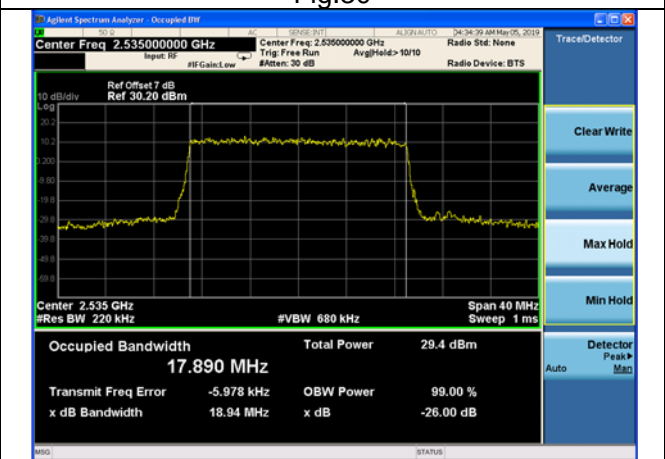


Fig.32

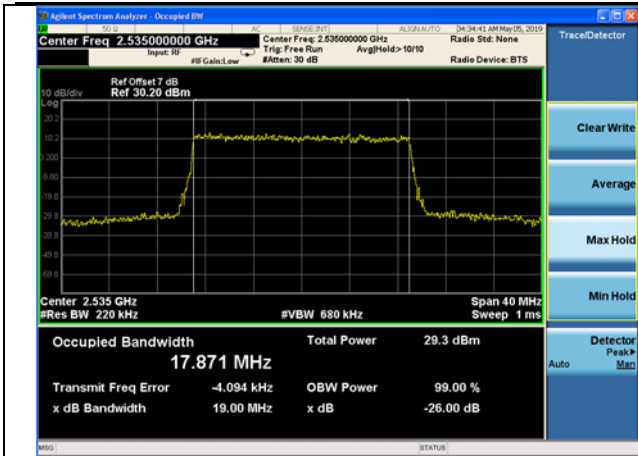


Fig.33

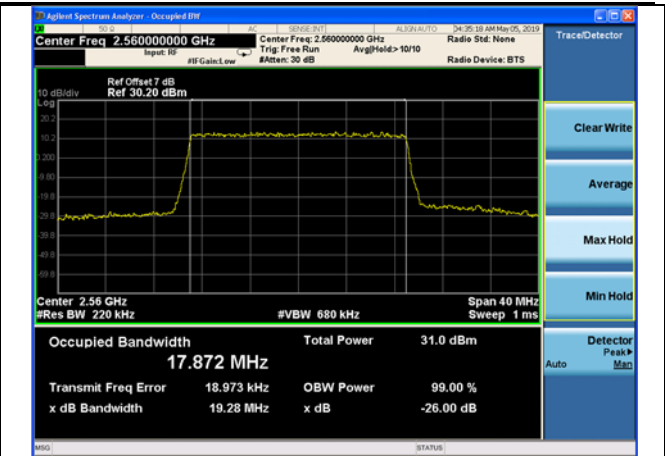


Fig.34

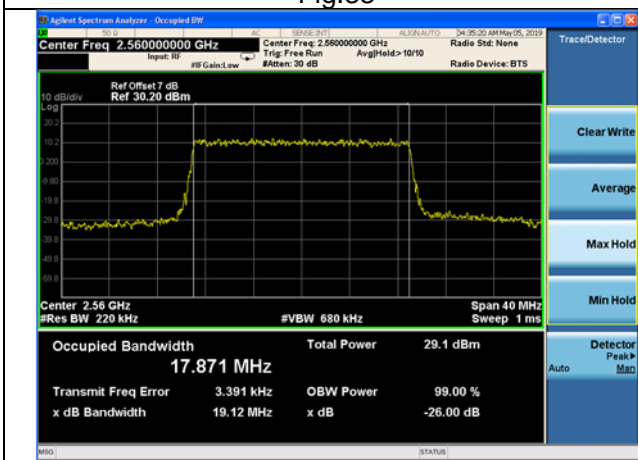


Fig.35

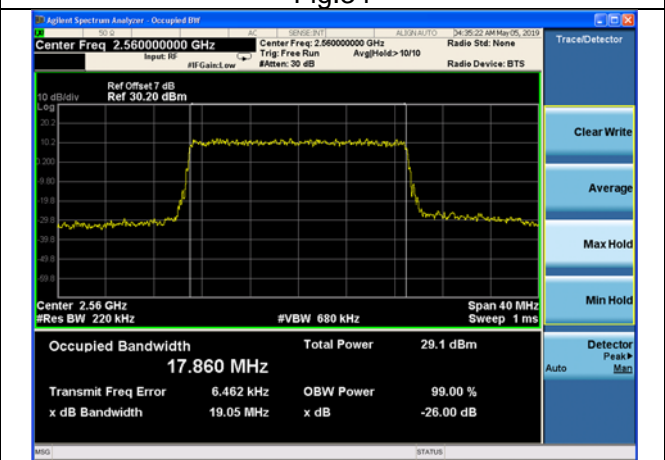


Fig.36

### 3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
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

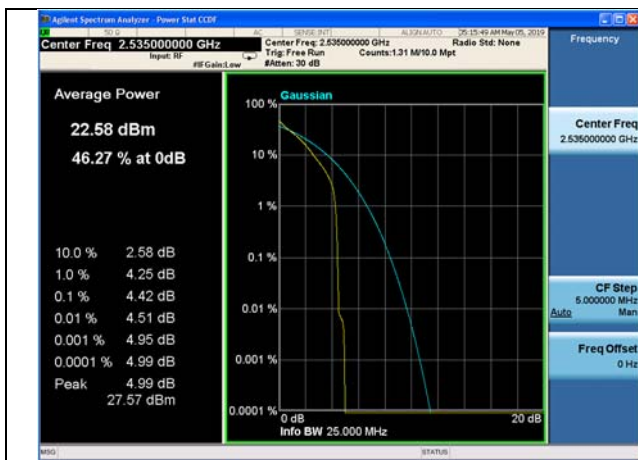


Fig.1

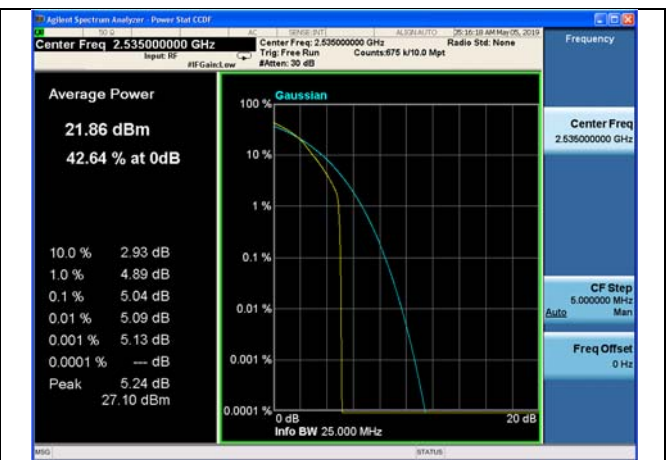


Fig.2

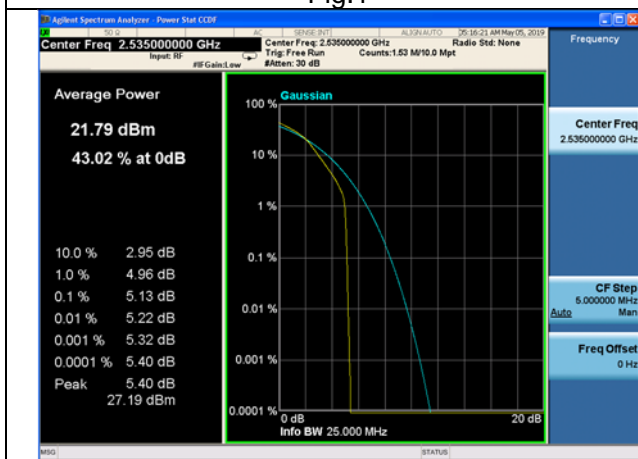


Fig.3

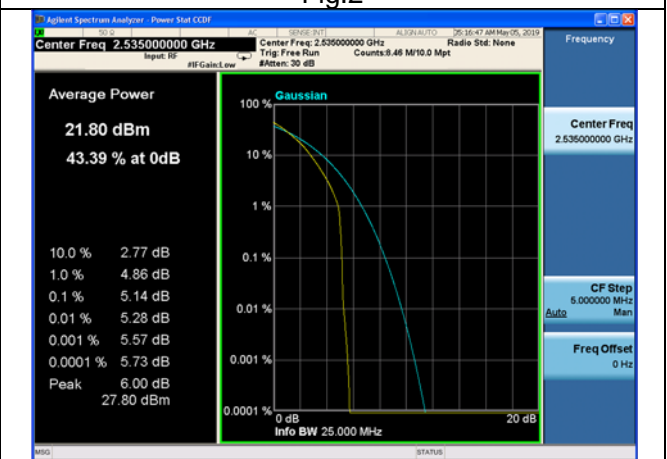


Fig.4

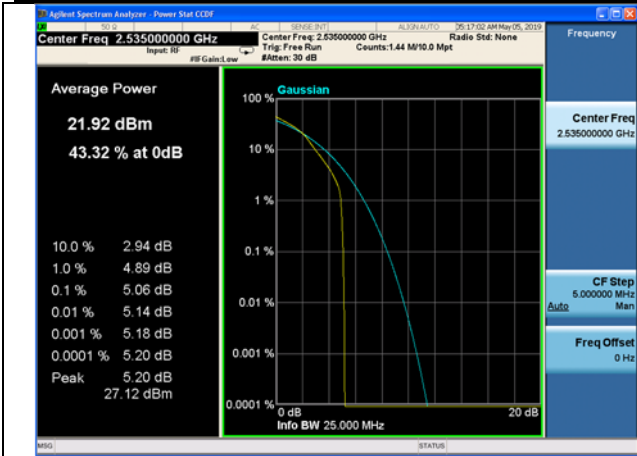


Fig.5

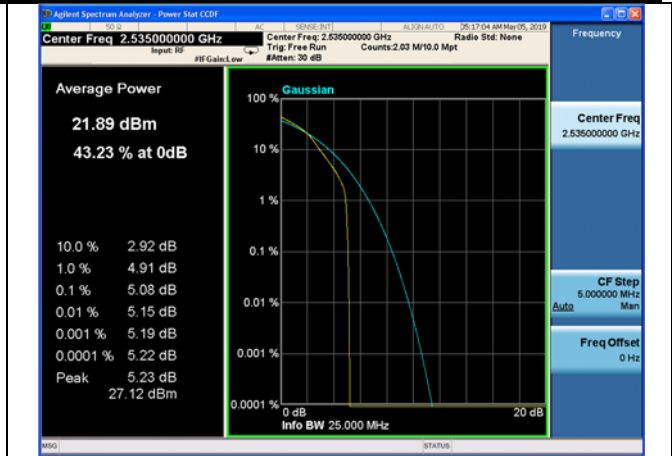


Fig.6

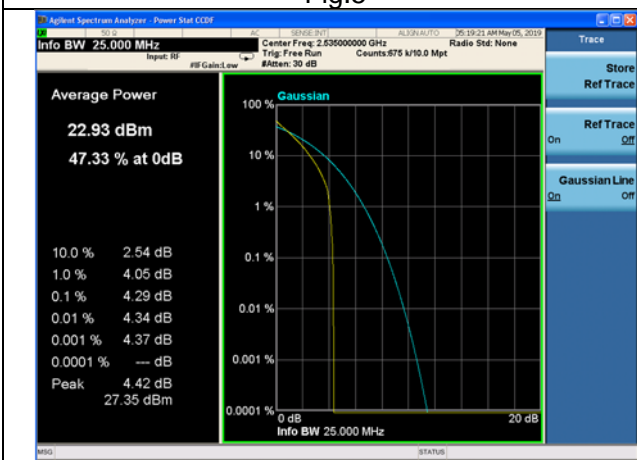


Fig.7

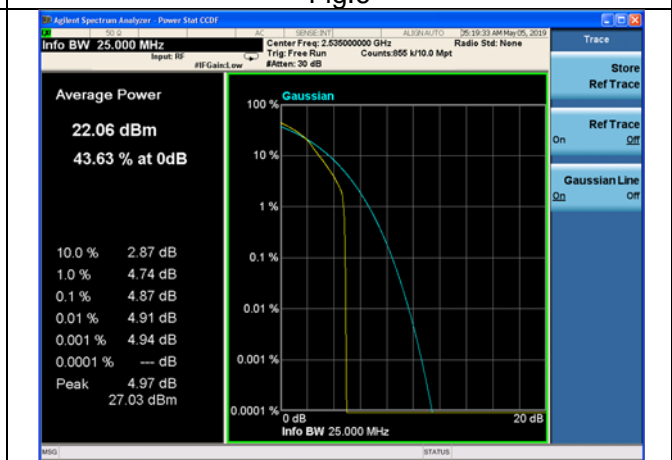


Fig.8

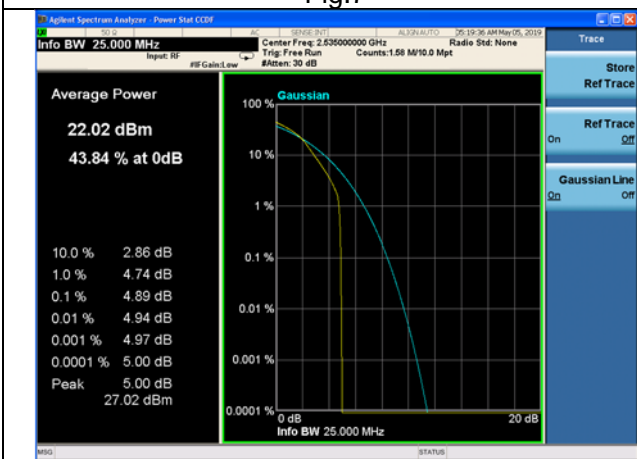


Fig.9

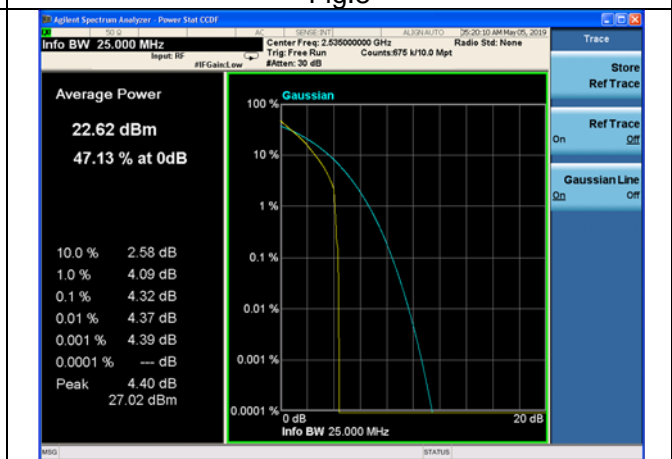


Fig.10

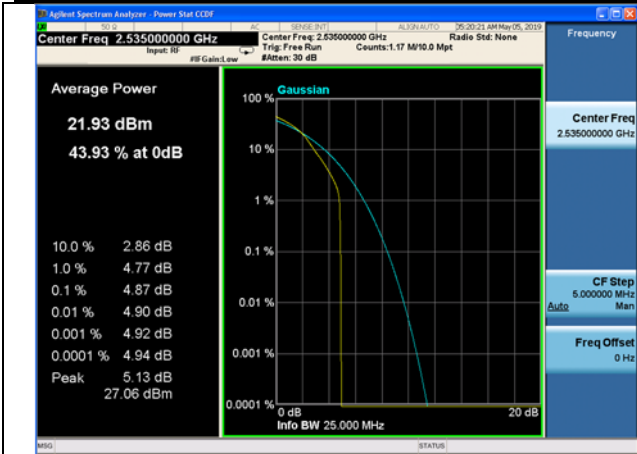


Fig.11

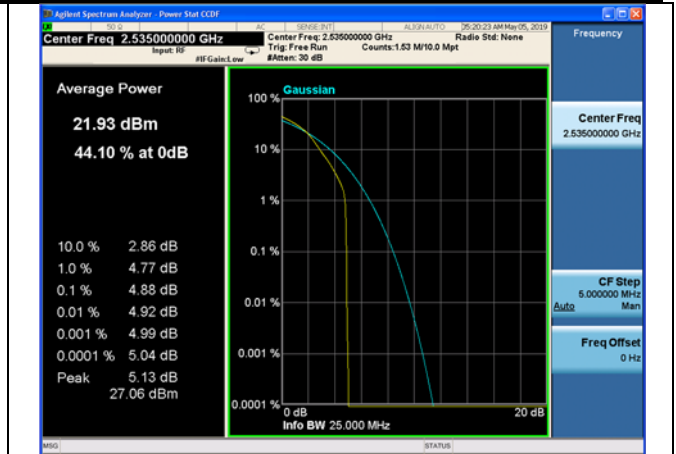


Fig.12



**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
	2535	21100	20	1	0	Fig.2
	2560	21350	20	1	0	Fig.3

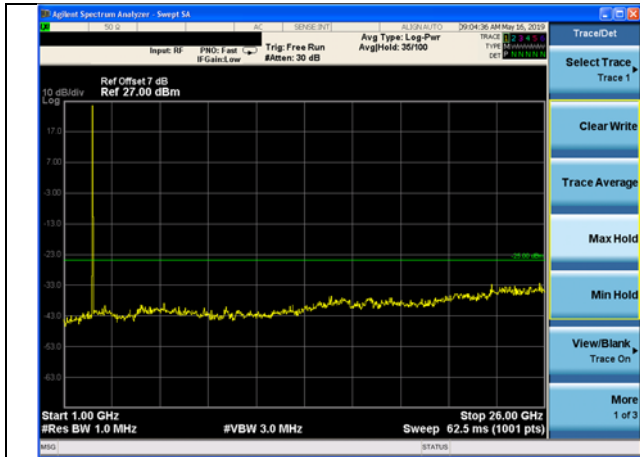


Fig.1

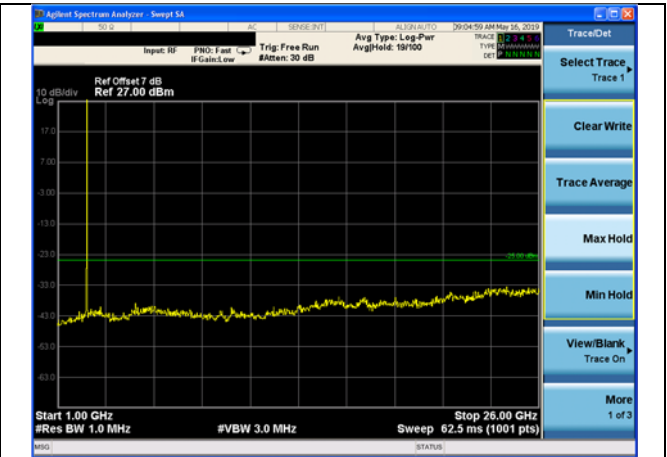


Fig.2

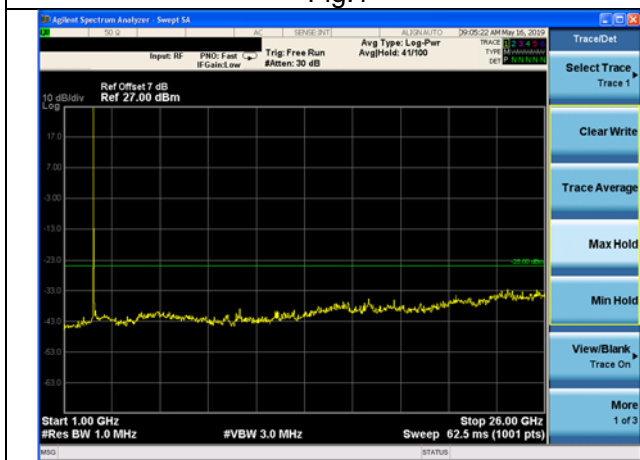


Fig3