Fig.5

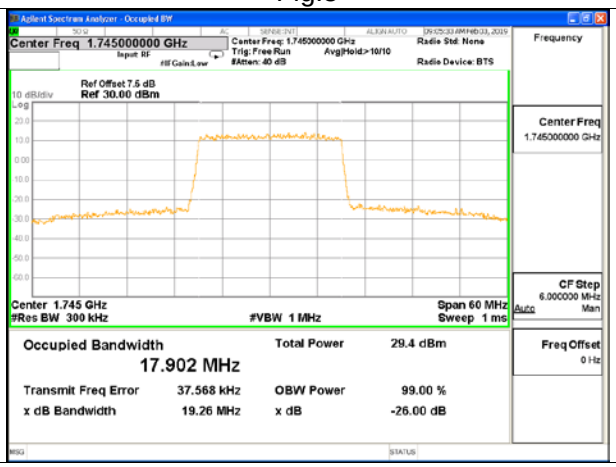


Fig.6

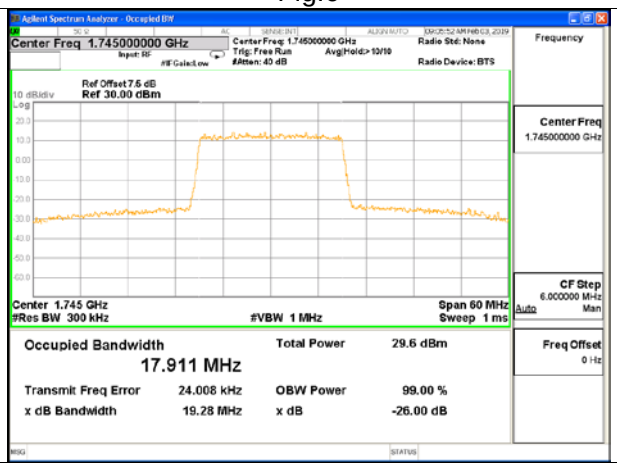


Fig.7

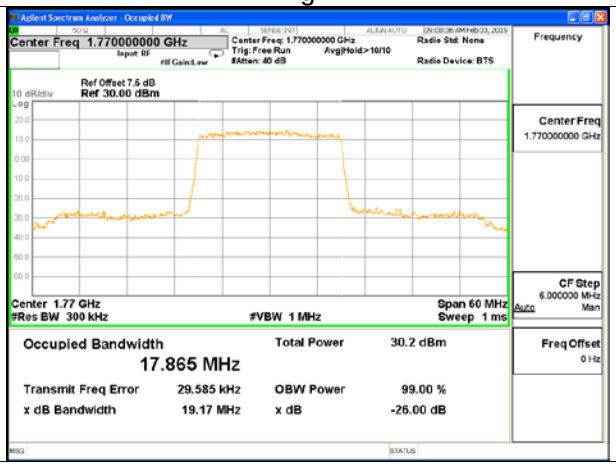


Fig.8

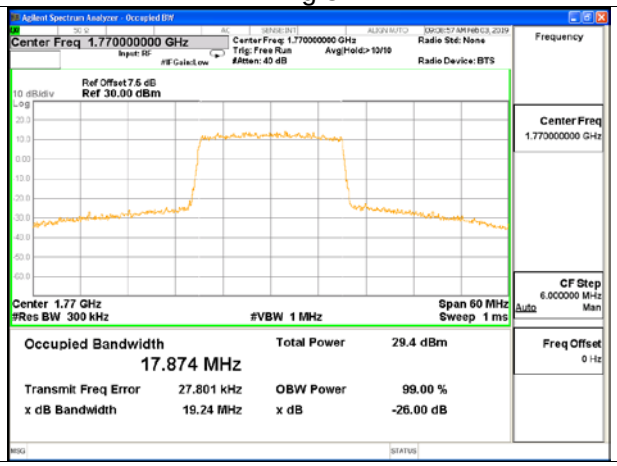
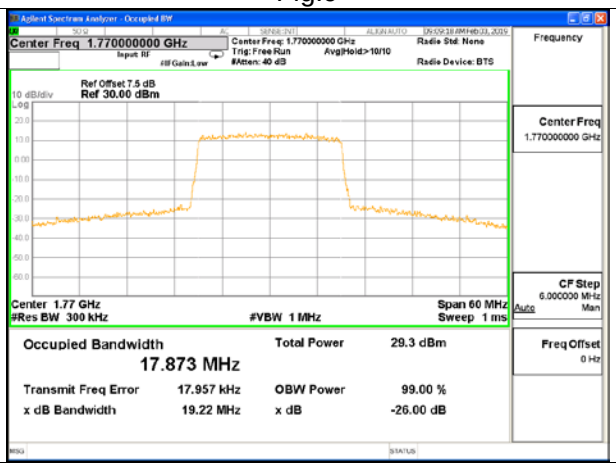
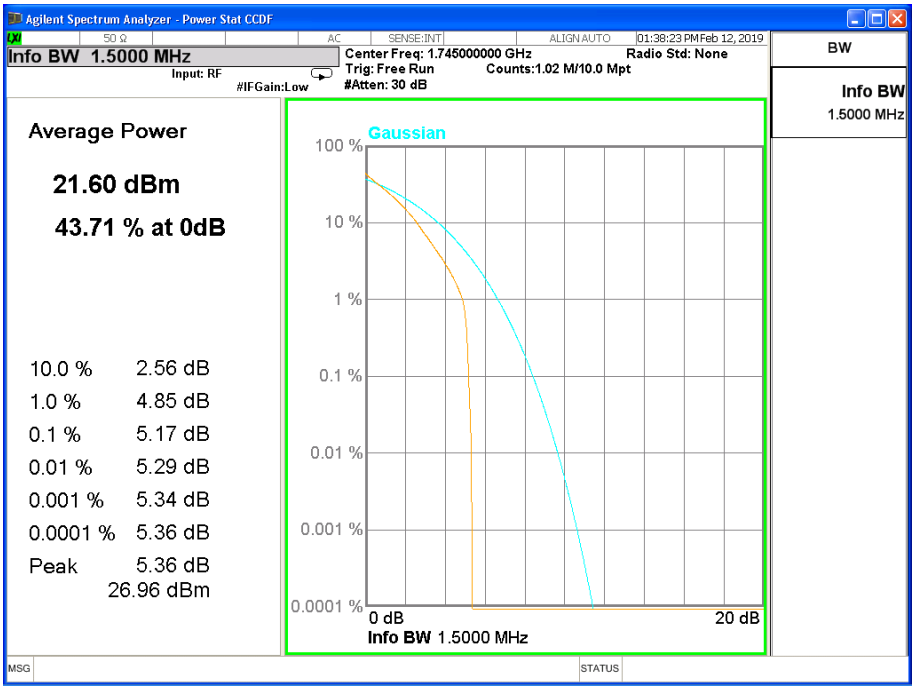


Fig.9

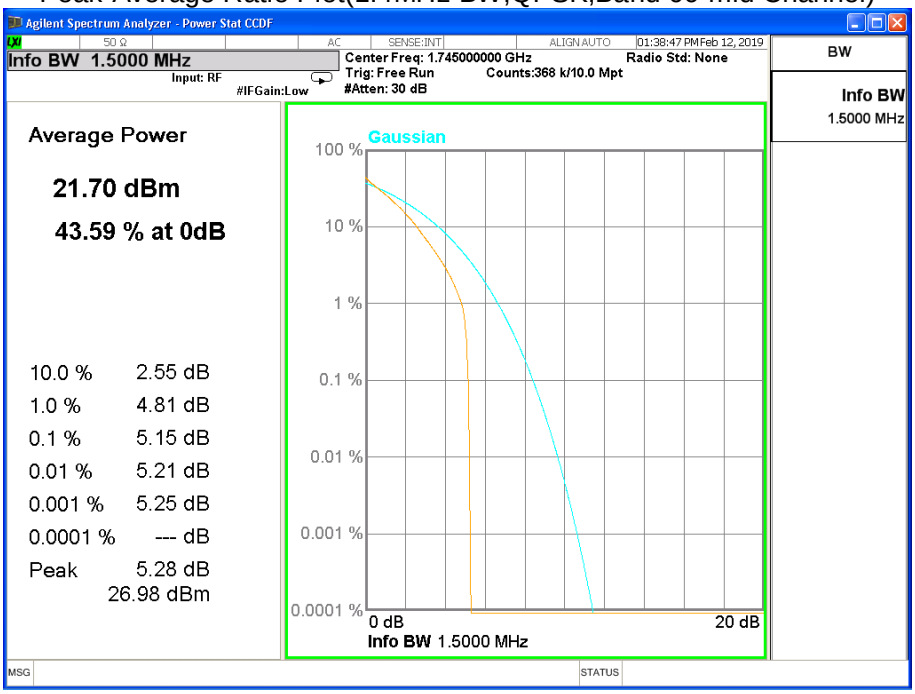


3 Peak-Average Ratio

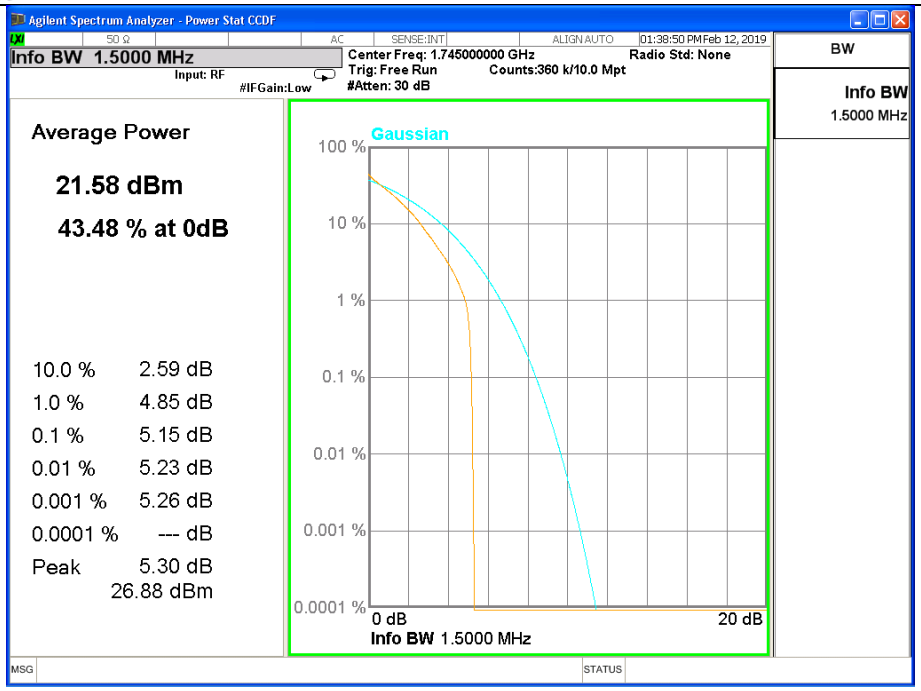
Test result:



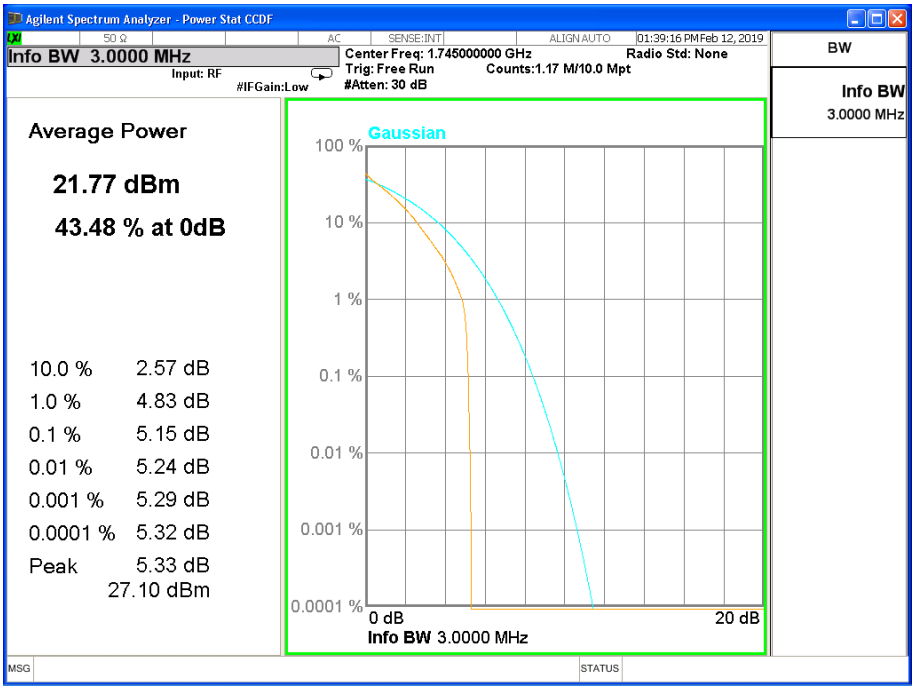
Peak-Average Ratio Plot(1.4MHz BW,QPSK,Band 66-mid Channel)



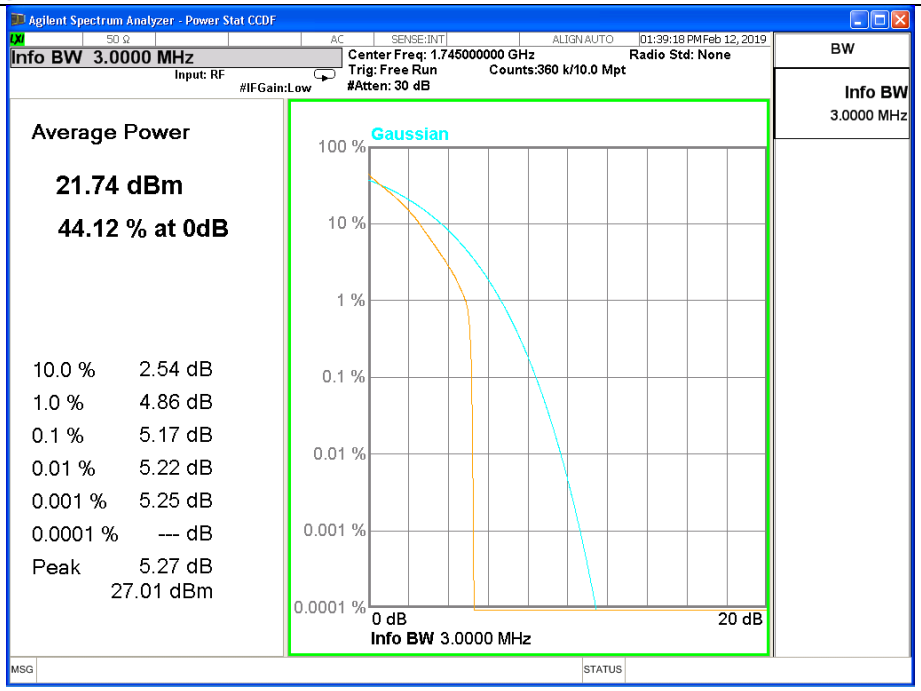
Peak-Average Ratio Plot(1.4MHz BW,16QAM,Band 66-mid Channel)



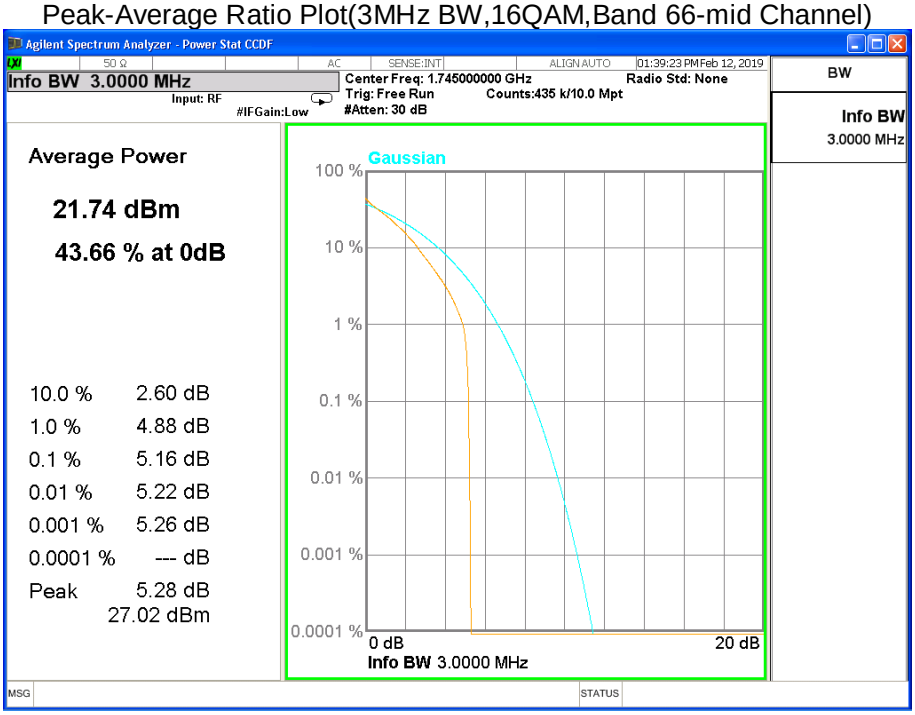
Peak-Average Ratio Plot(1.4MHz BW,64QAM,Band 66-mid Channel)



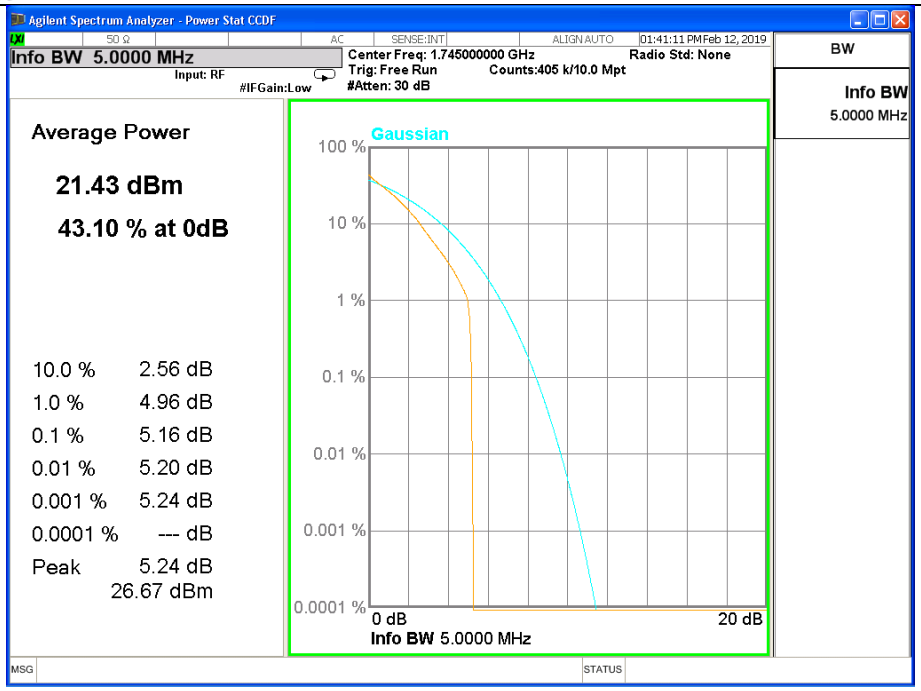
Peak-Average Ratio Plot(3MHz BW,QPSK,Band 66-mid Channel)



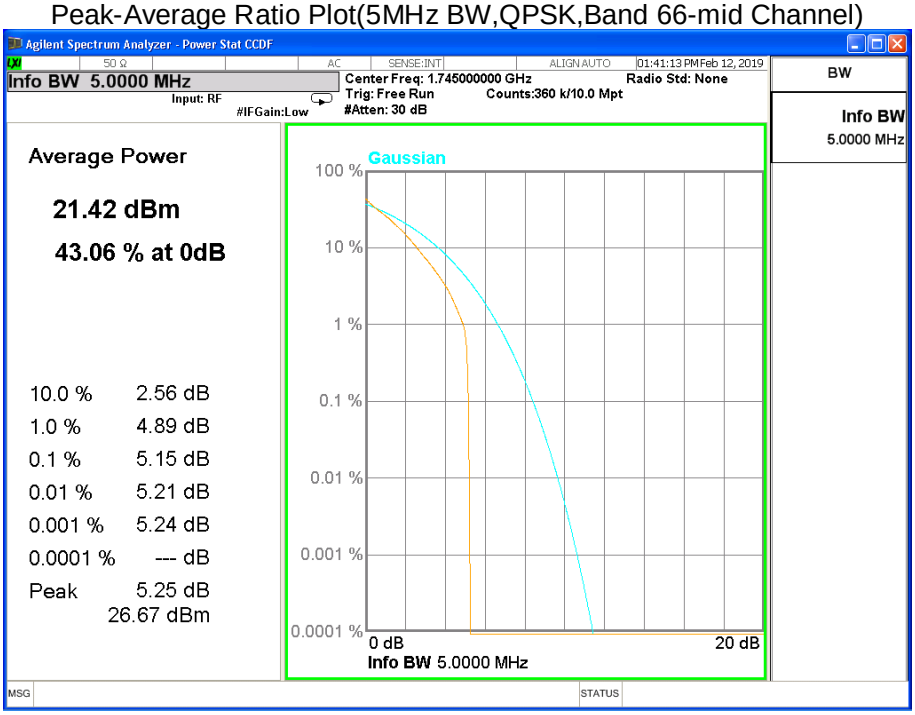
Peak-Average Ratio Plot(3MHz BW,16QAM,Band 66-mid Channel)



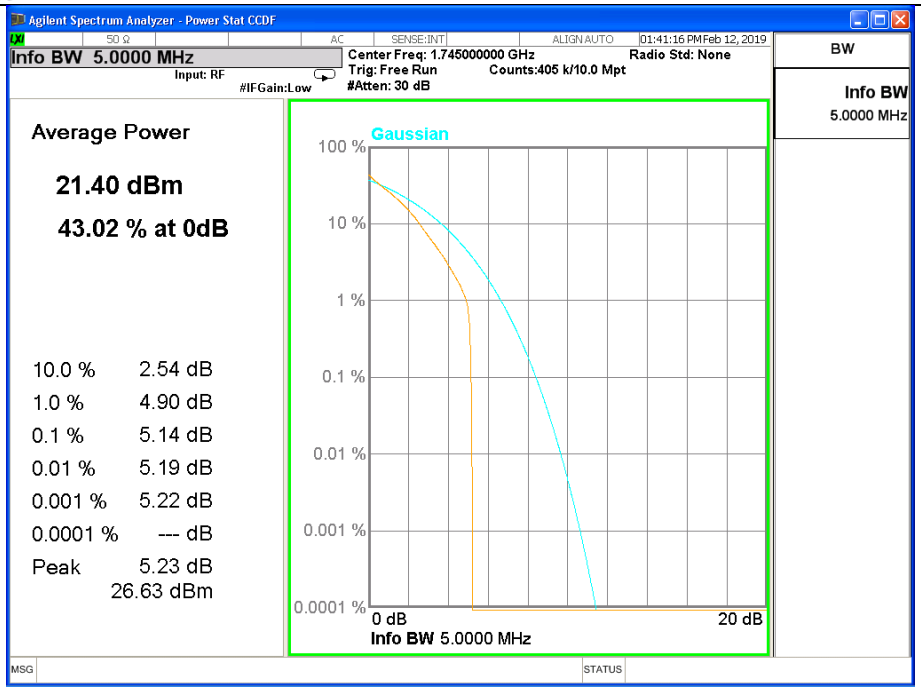
Peak-Average Ratio Plot(3MHz BW,64QAM,Band 66-mid Channel)



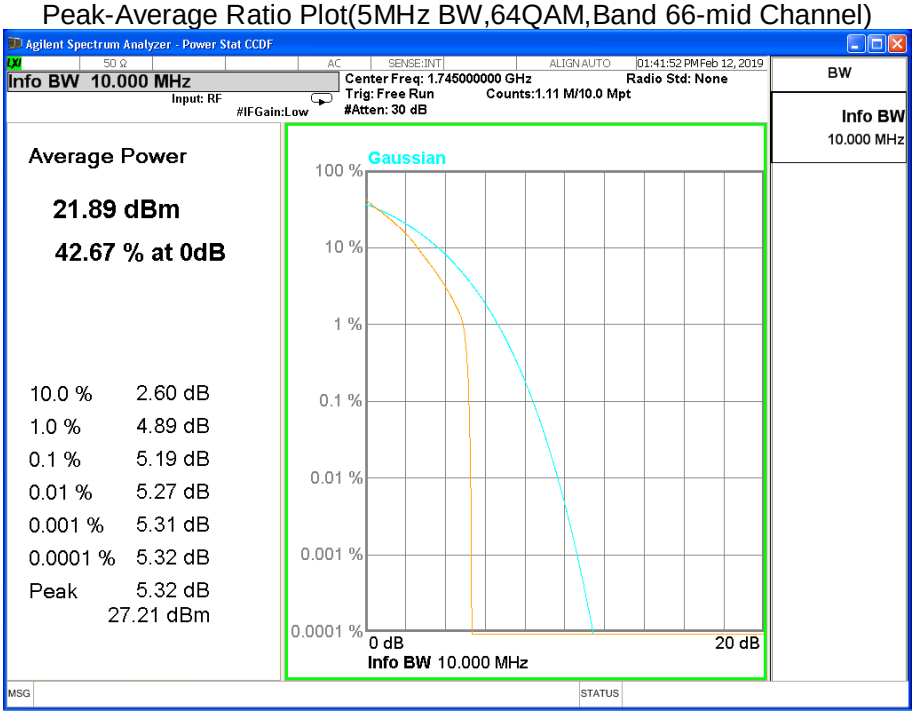
Peak-Average Ratio Plot(5MHz BW,QPSK,Band 66-mid Channel)



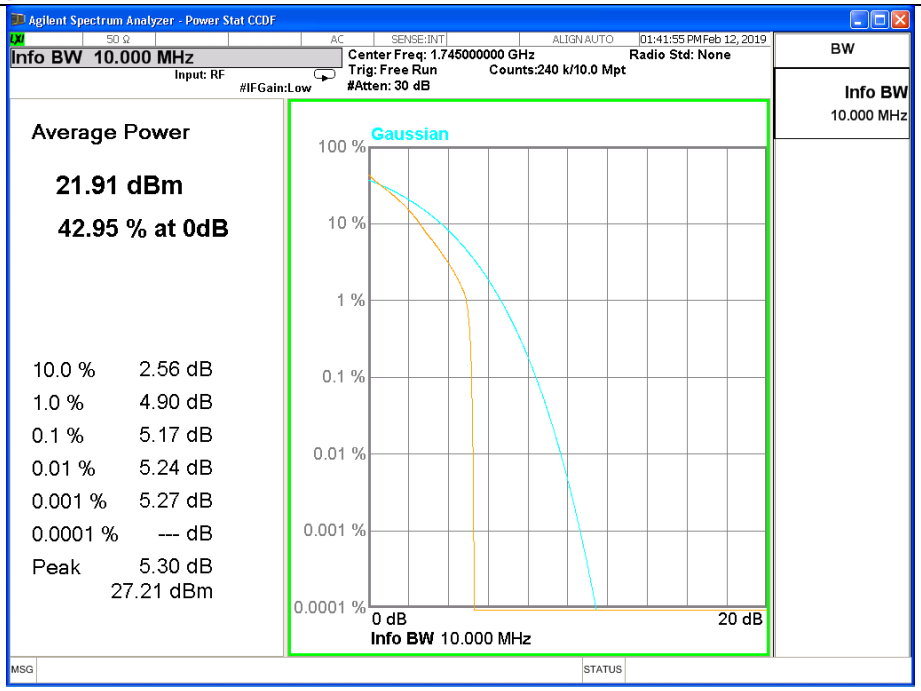
Peak-Average Ratio Plot(5MHz BW,16QAM,Band 66-mid Channel)



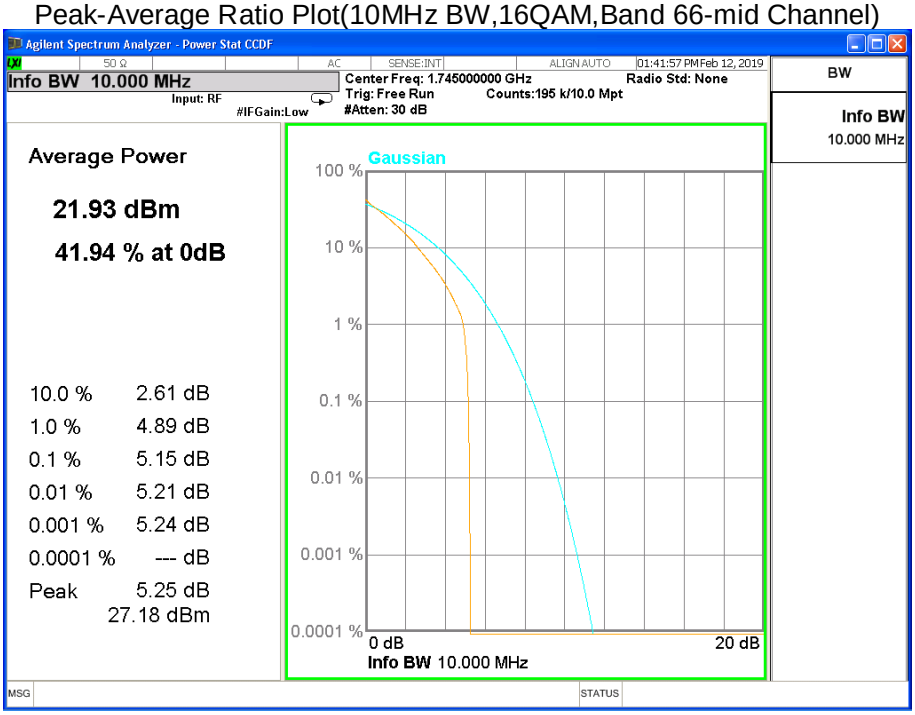
Peak-Average Ratio Plot(5MHz BW,64QAM,Band 66-mid Channel)



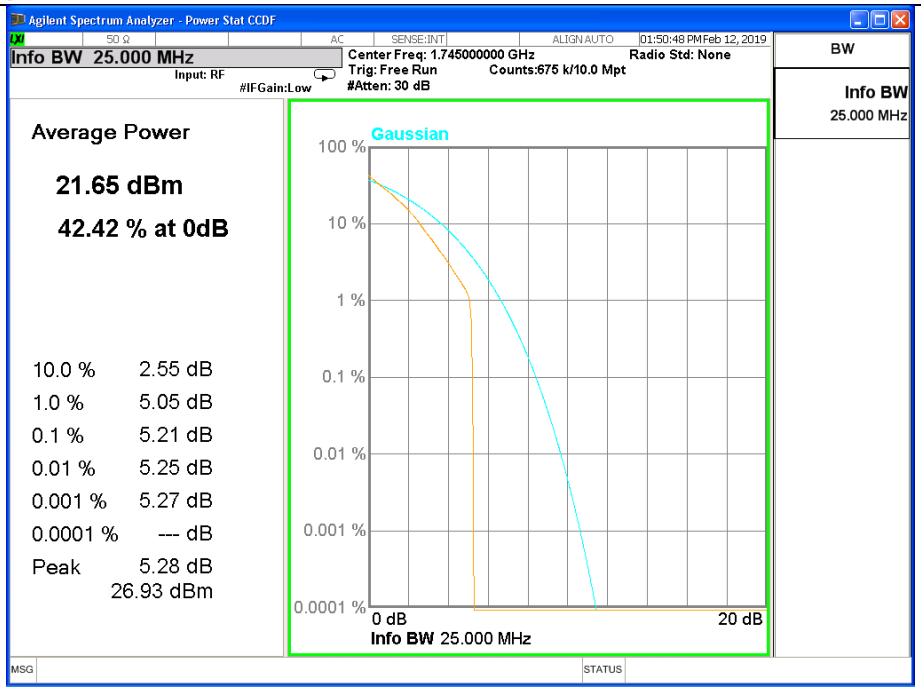
Peak-Average Ratio Plot(10MHz BW,QPSK,Band 66-mid Channel)



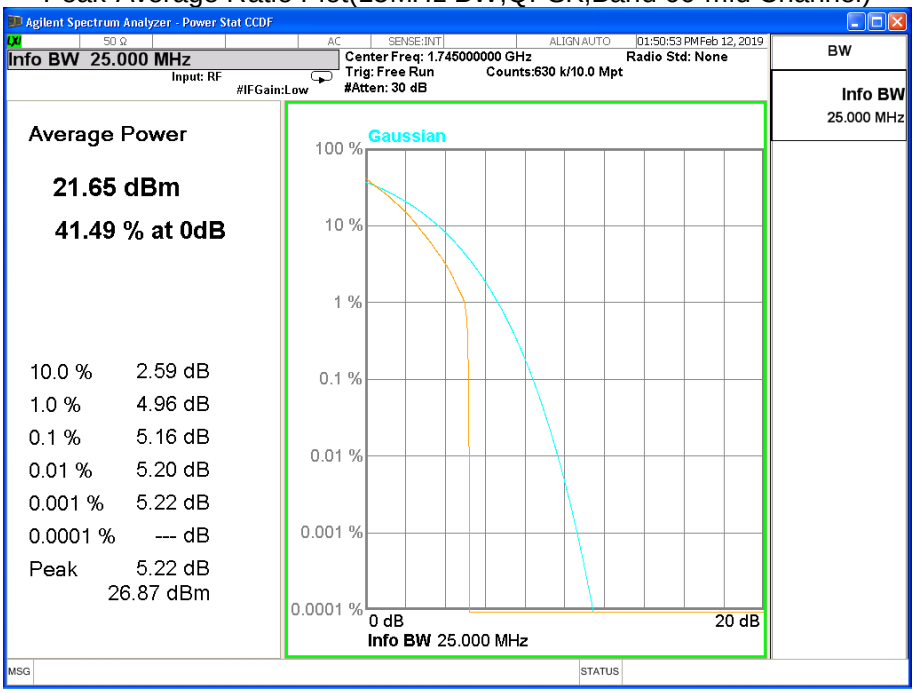
Peak-Average Ratio Plot(10MHz BW,16QAM,Band 66-mid Channel)



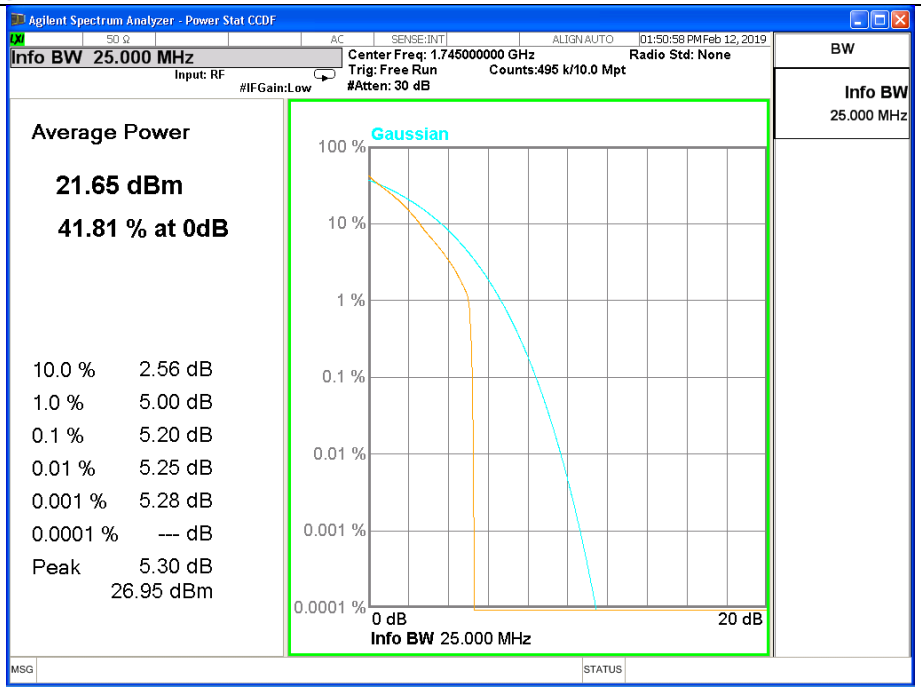
Peak-Average Ratio Plot(10MHz BW,64QAM,Band 66-mid Channel)



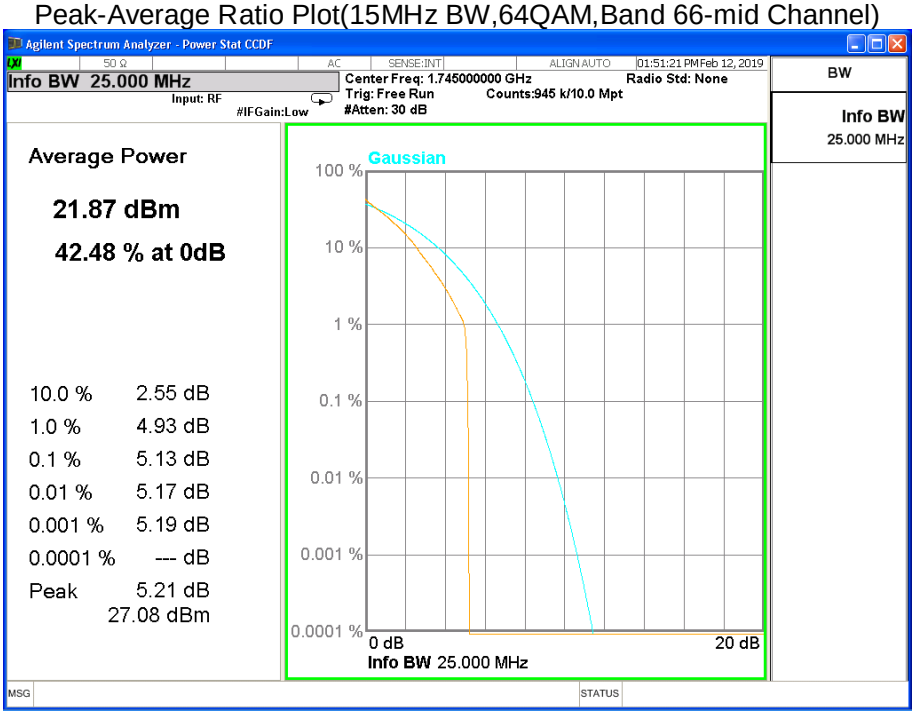
Peak-Average Ratio Plot(15MHz BW,QPSK,Band 66-mid Channel)



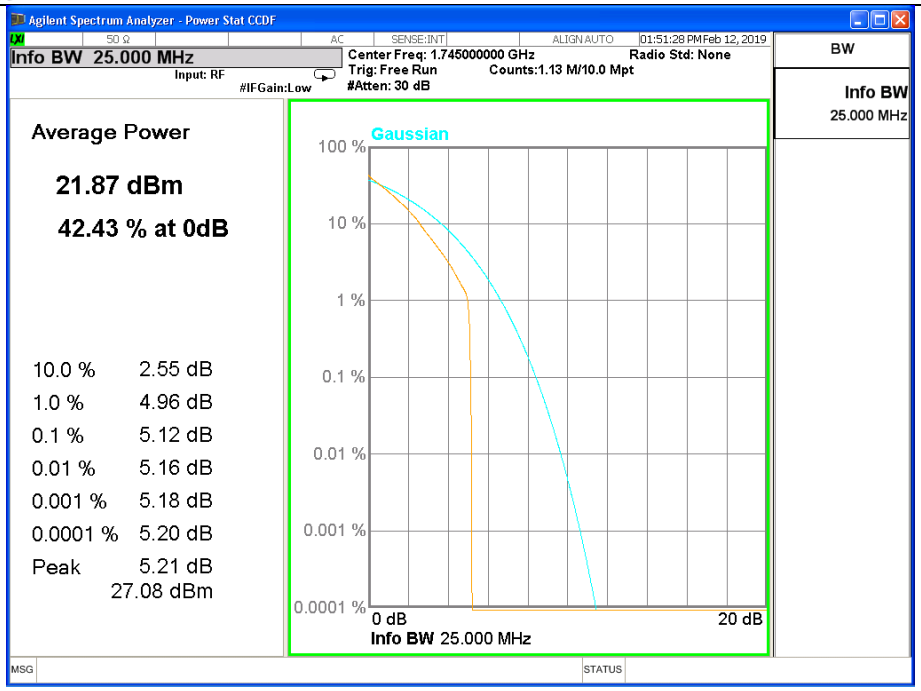
Peak-Average Ratio Plot(15MHz BW,16QAM,Band 66-mid Channel)



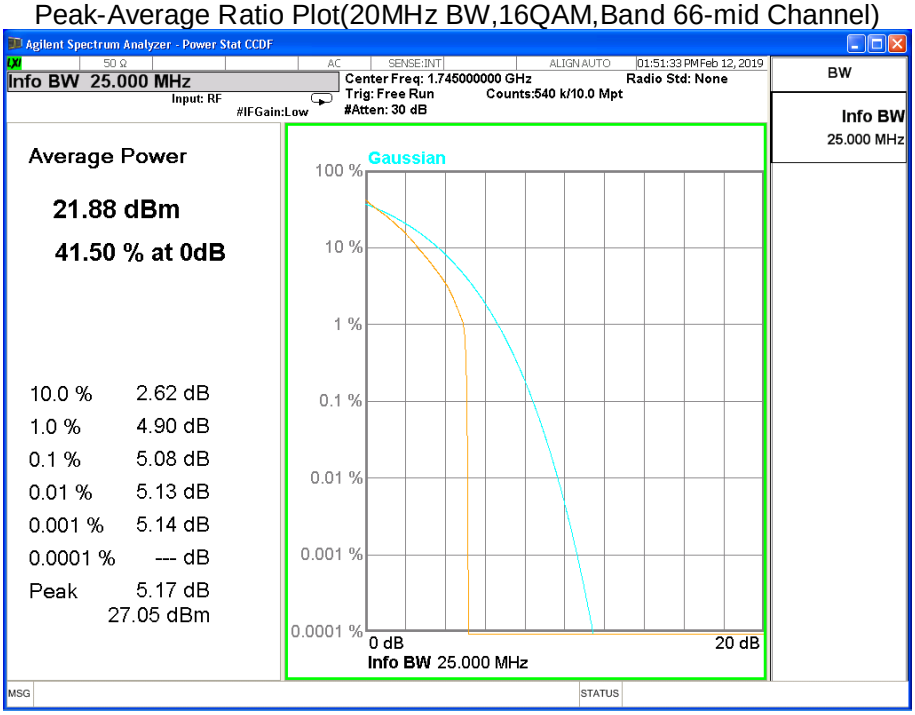
Peak-Average Ratio Plot(15MHz BW,64QAM,Band 66-mid Channel)



Peak-Average Ratio Plot(20MHz BW,QPSK,Band 66-mid Channel)



Peak-Average Ratio Plot(20MHz BW,16QAM,Band 66-mid Channel)



Peak-Average Ratio Plot(20MHz BW,64QAM,Band 66-mid Channel)

4 Spurious Emissions at antenna terminal

Test result

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
66	1720	132072	20	1	0	Fig.1

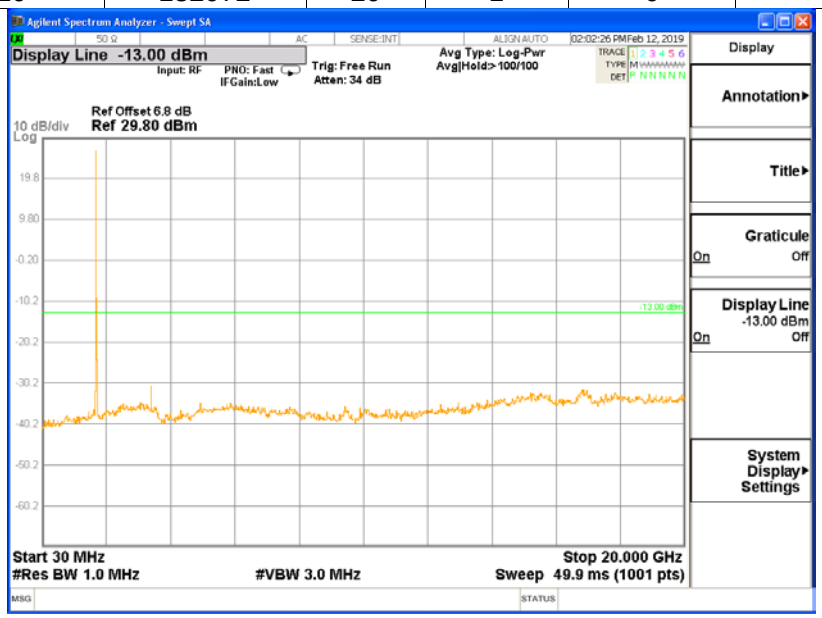


Fig.1

Band	Carrier frequency (MHz)	Channel(Mid)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
66	1745	132322	20	1	0	Fig.1

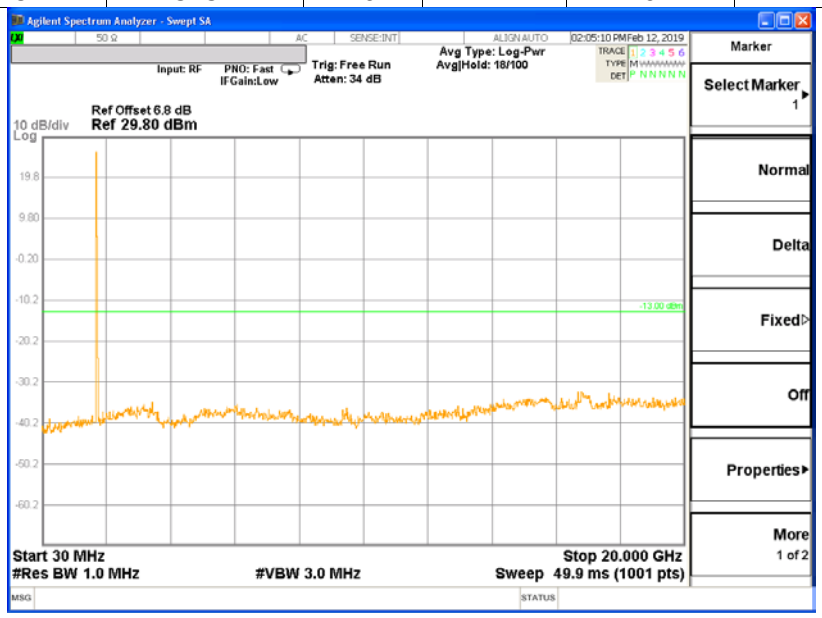


Fig.1

Band	Carrier frequency (MHz)	Channel(High)	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
66	1770	132572	20	1	0	Fig.1

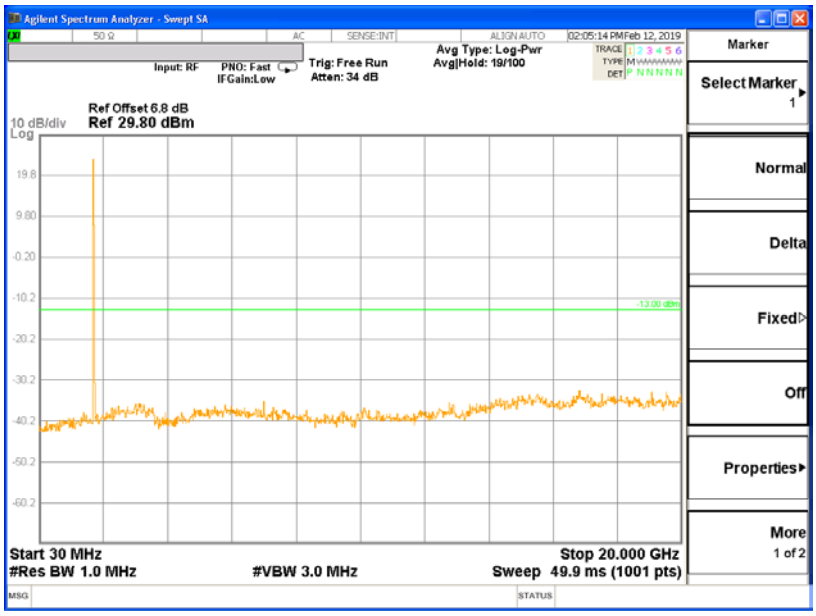


Fig.1

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
66	1710.7	131979	1.4	1	0	Fig.1
				6	0	Fig.4

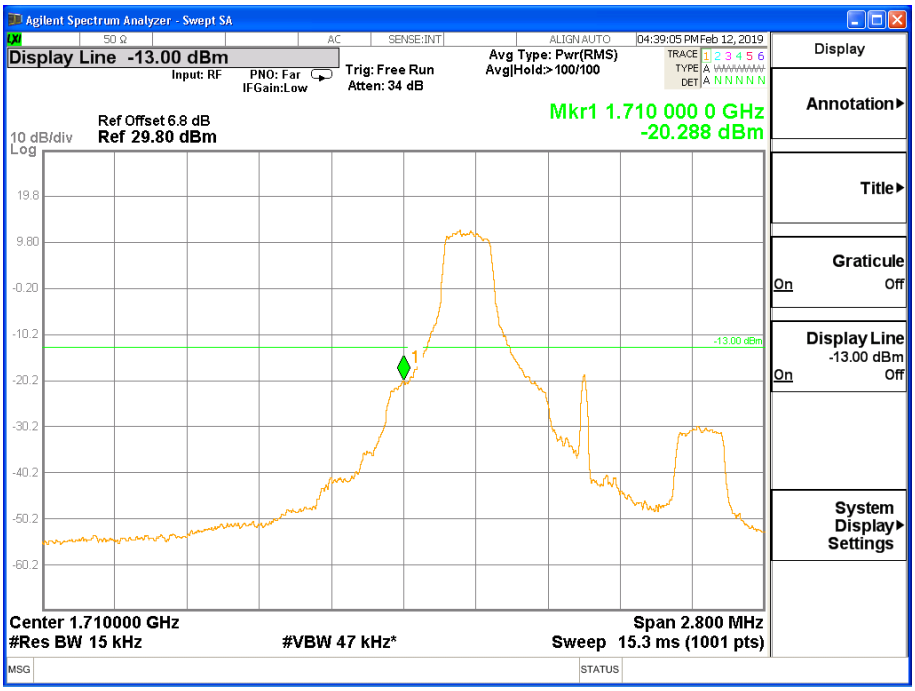


Fig.1

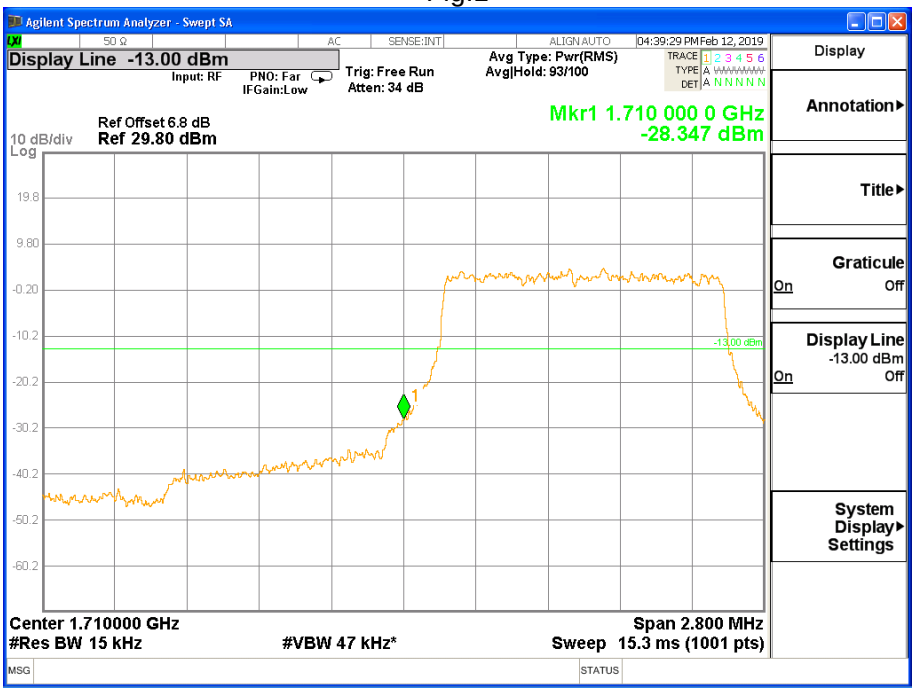


Fig.4

Band	Carrier frequency (MHz)	Channel(High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
66	1779.3	132665	1.4	1	5	Fig.1
				6	0	Fig.4

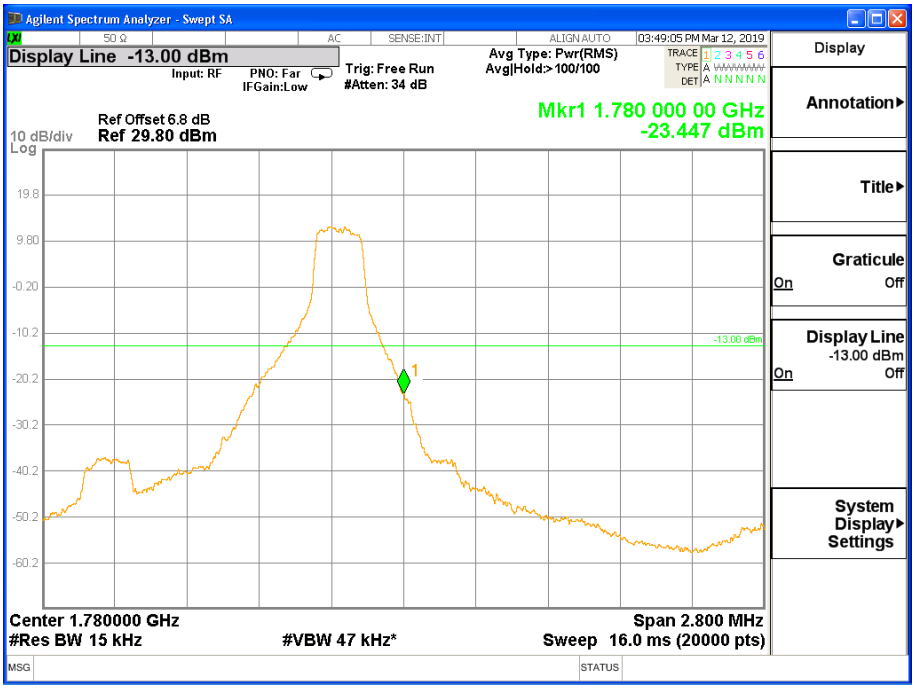


Fig.1

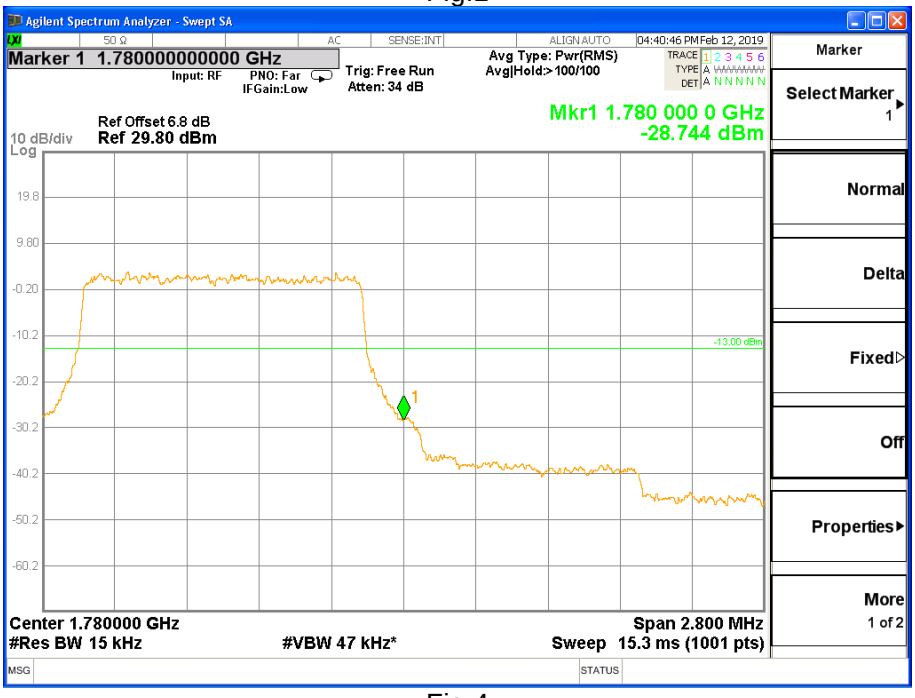


Fig.4

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
66	1711.5	131987	3	1	0	Fig.1
				15	0	Fig.4

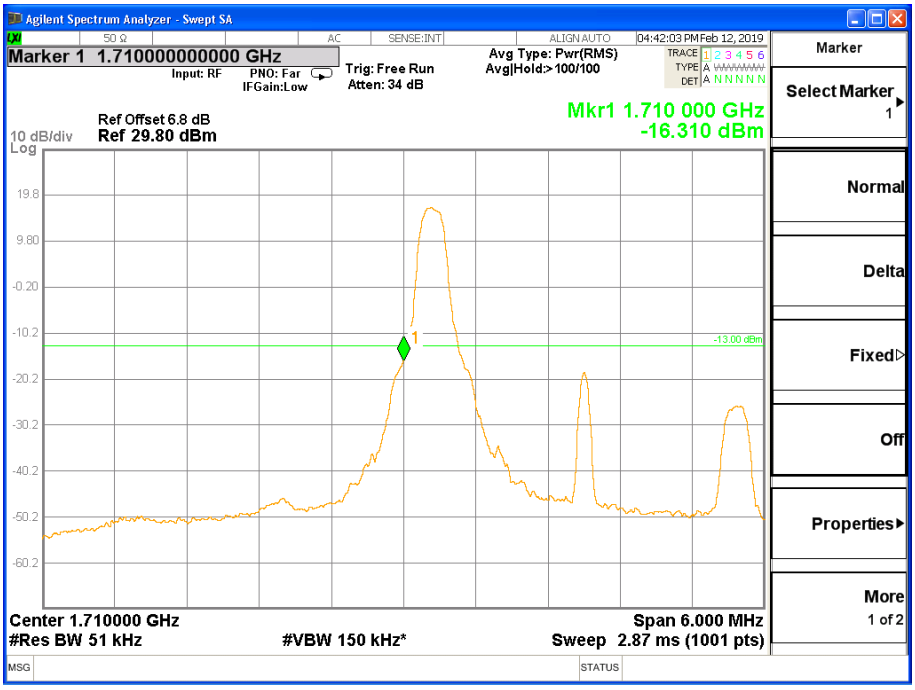


Fig.1

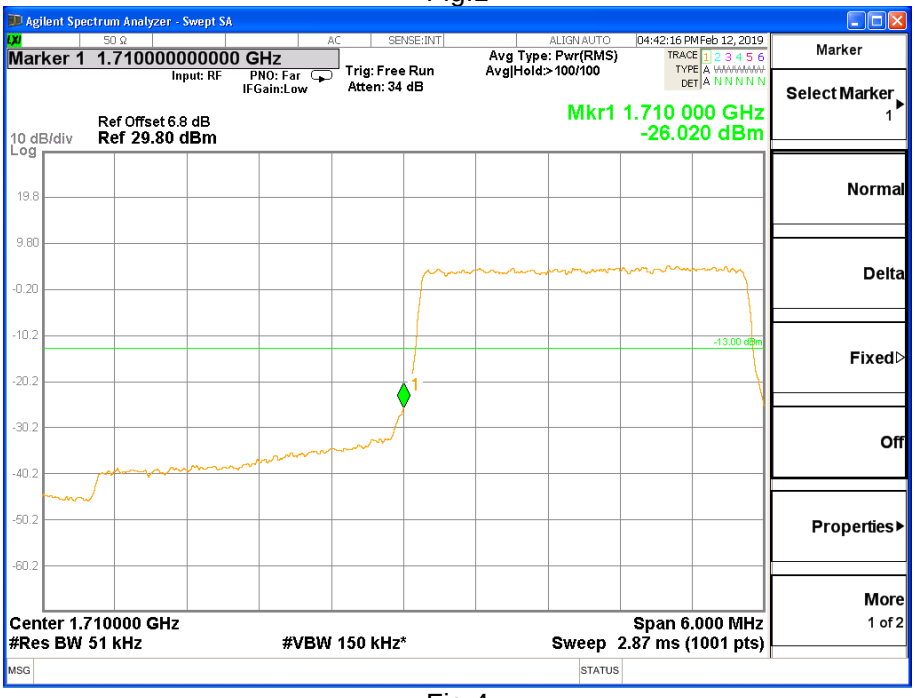


Fig.4

Band	Carrier frequency (MHz)	Channel(High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
66	1778.5	132657	3	1	14	Fig.1
				15	0	Fig.4

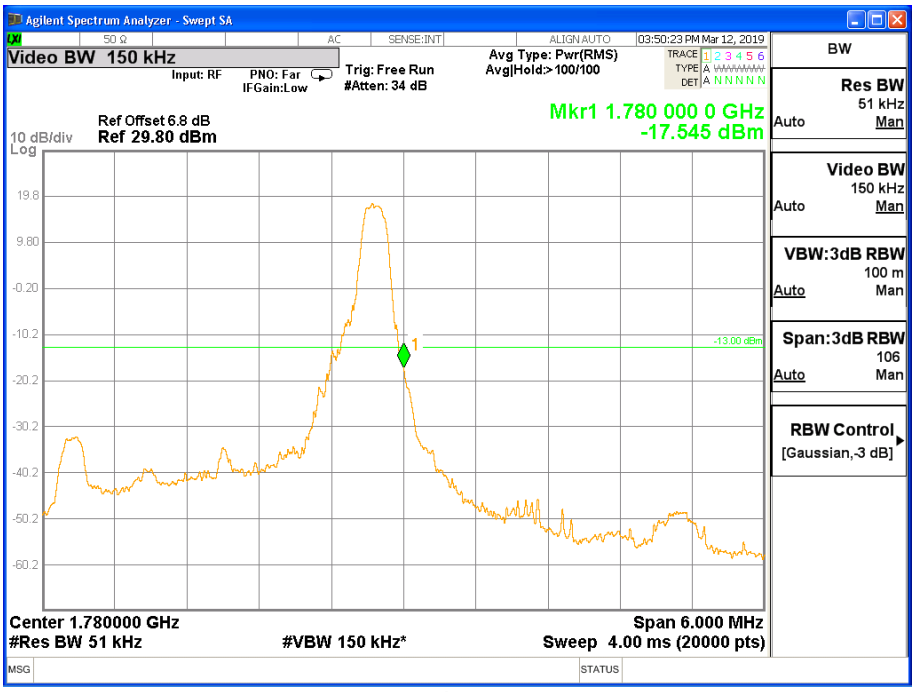


Fig.4

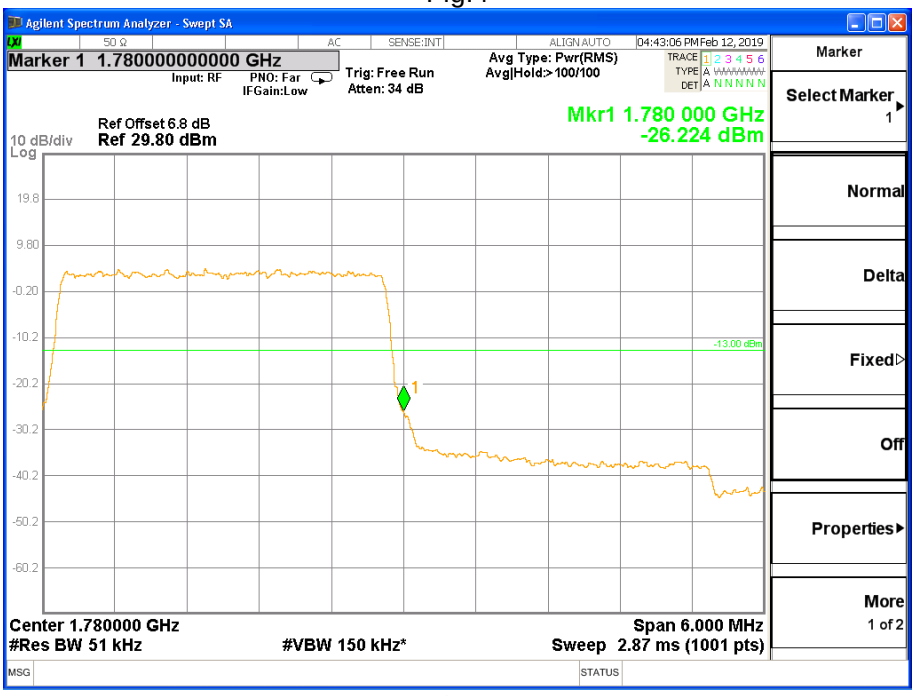


Fig.8

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
66	1712.5	131997	5	1	0	Fig.1
				25	0	Fig.4

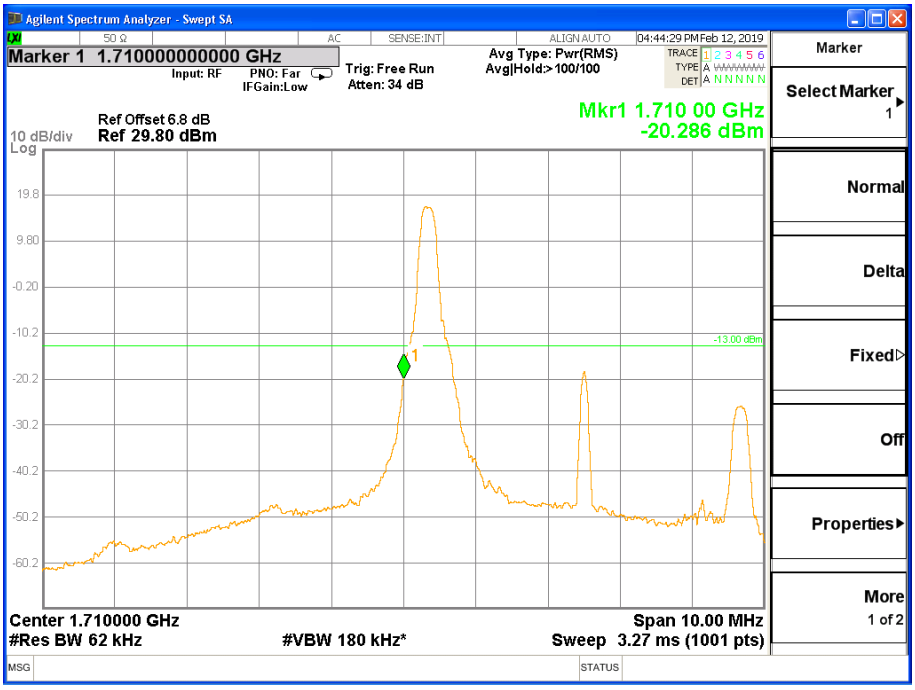


Fig.1

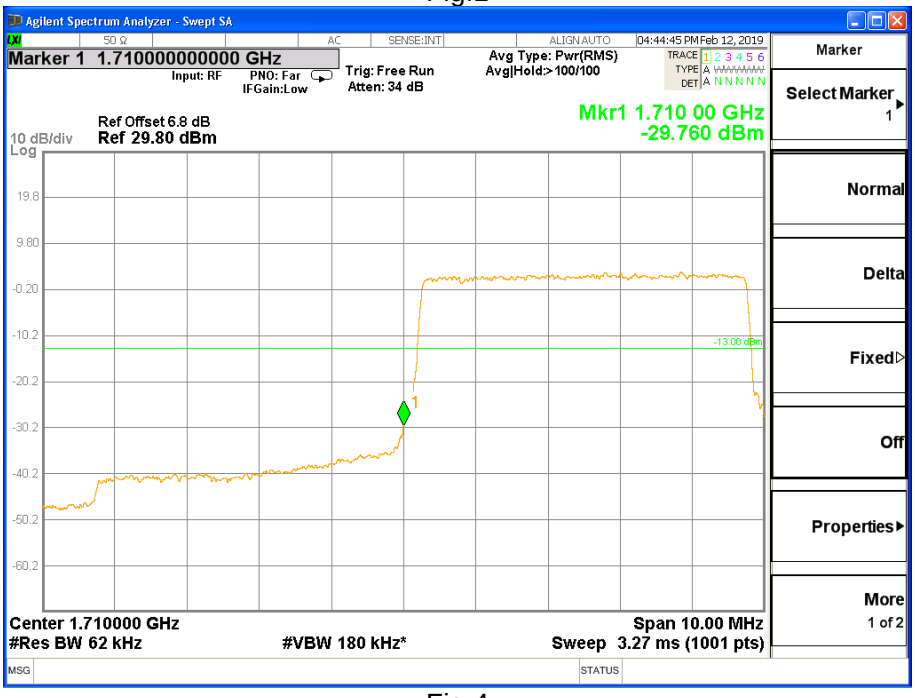


Fig.4

Band	Carrier frequency (MHz)	Channel(High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
66	1777.5	132647	5	1	24	Fig.1
				25	0	Fig.4

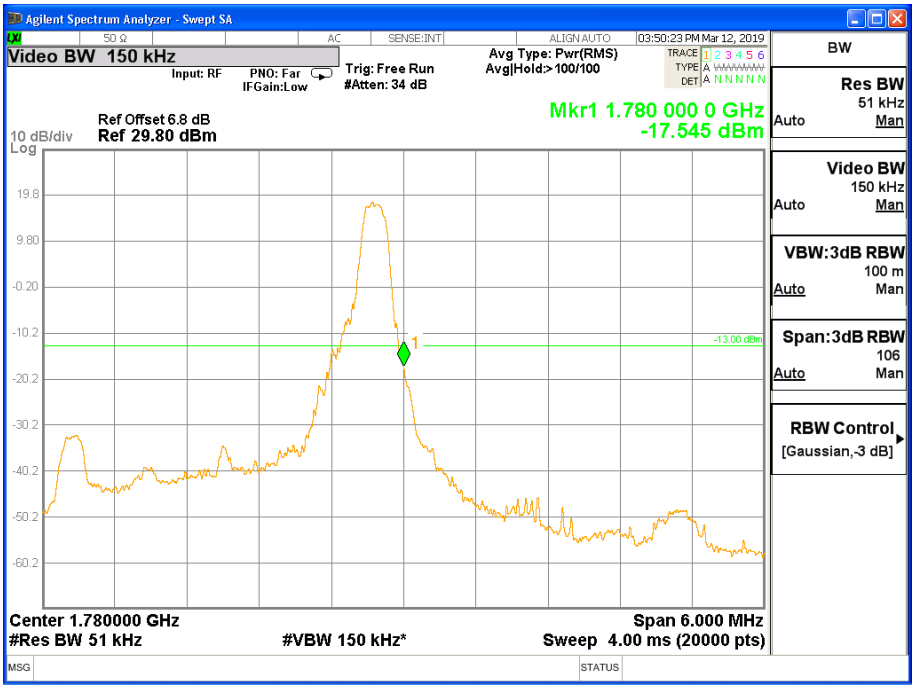


Fig.1

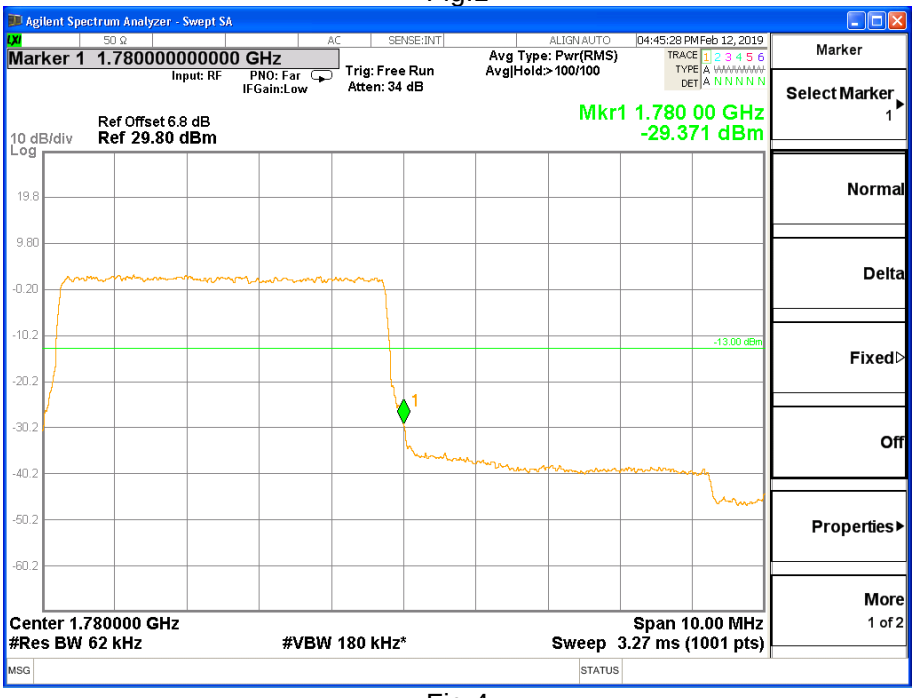


Fig.4

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
66	1715	132022	10	1	0	Fig.1
				50	0	Fig.4

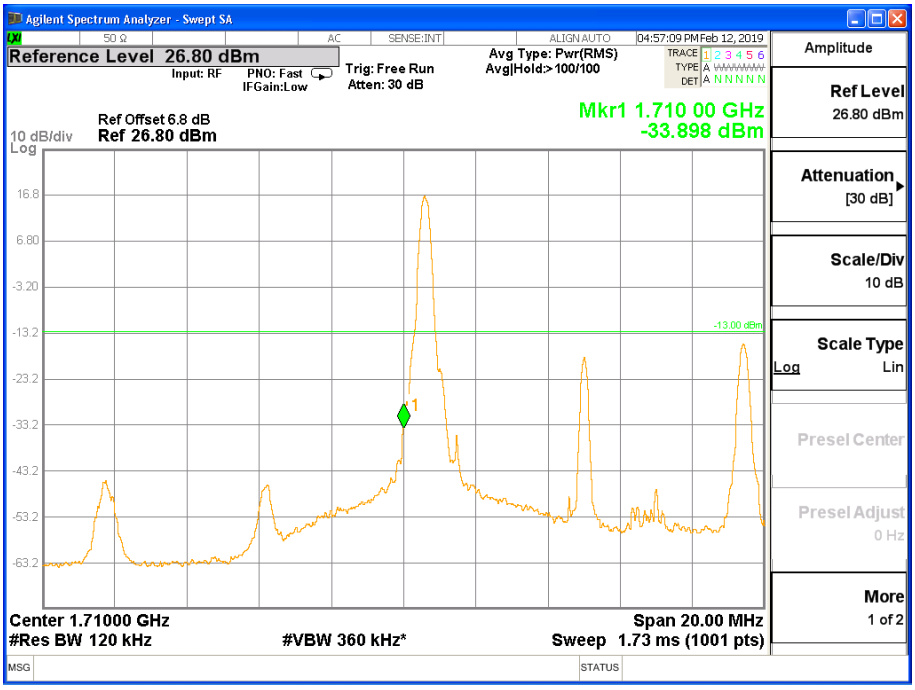


Fig.1

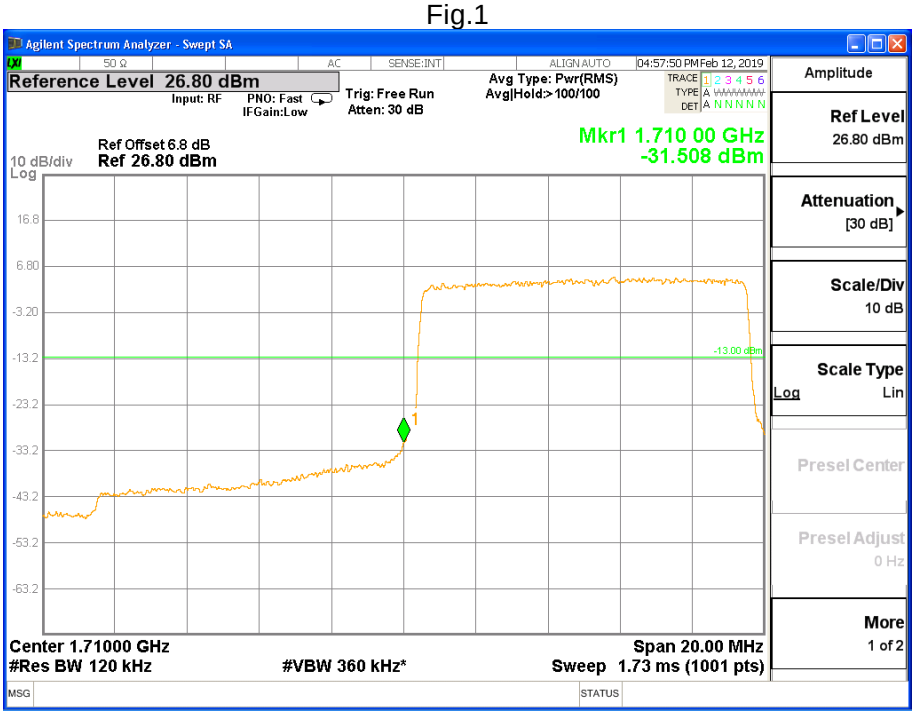


Fig.4

Band	Carrier frequency (MHz)	Channel(High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
66	1775	132622	10	1	49	Fig.1
				50	0	Fig.4

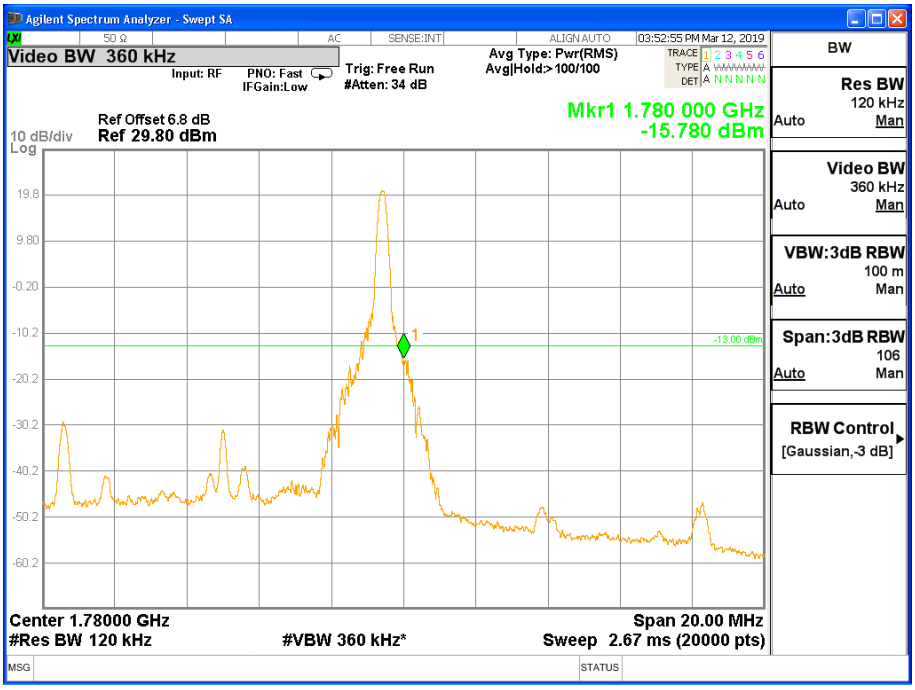


Fig.1

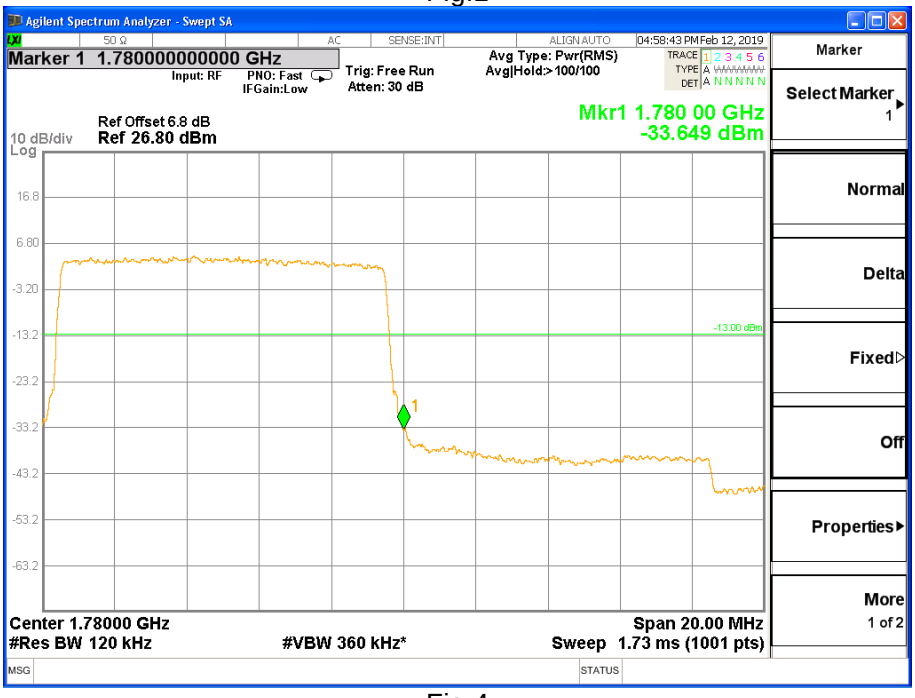


Fig.4

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
66	1717.5	132047	15	1	0	Fig.1
				75	0	Fig.4

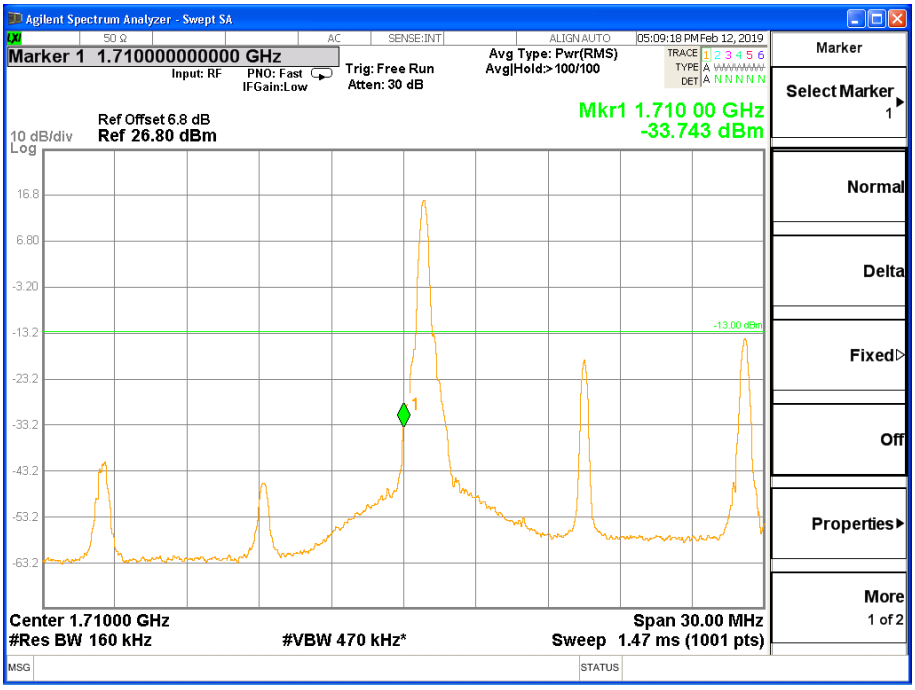


Fig.1

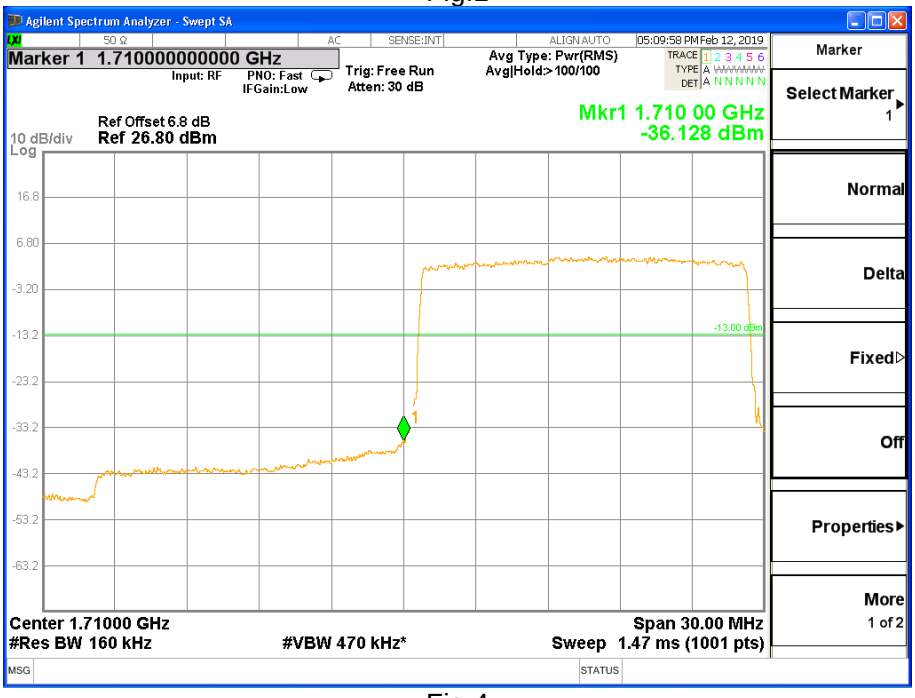


Fig.4

Band	Carrier frequency (MHz)	Channel(High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
66	1772.5	132597	15	1	74	Fig.1
				75	0	Fig.4

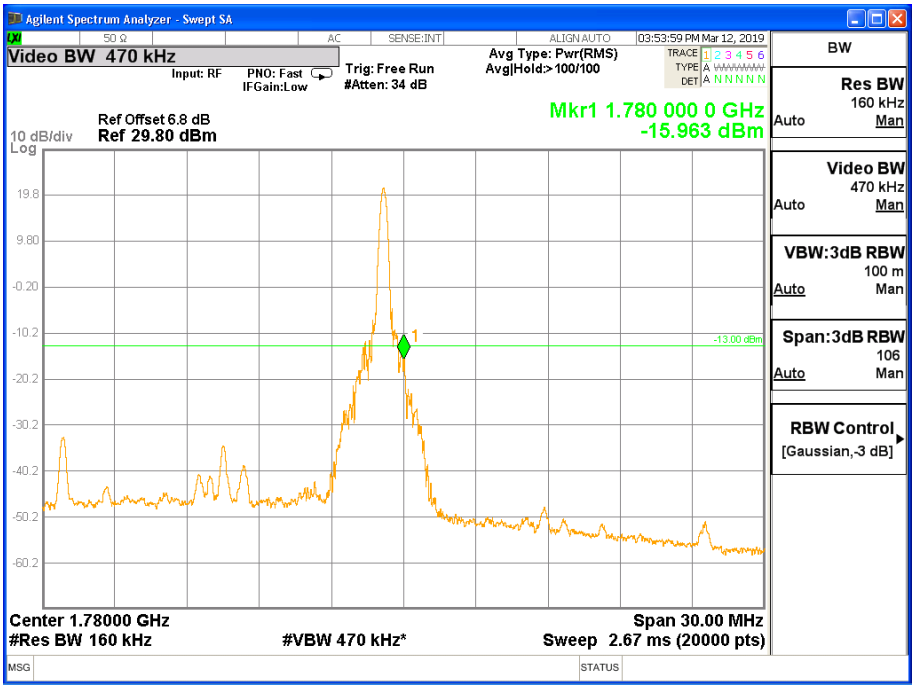


Fig.1

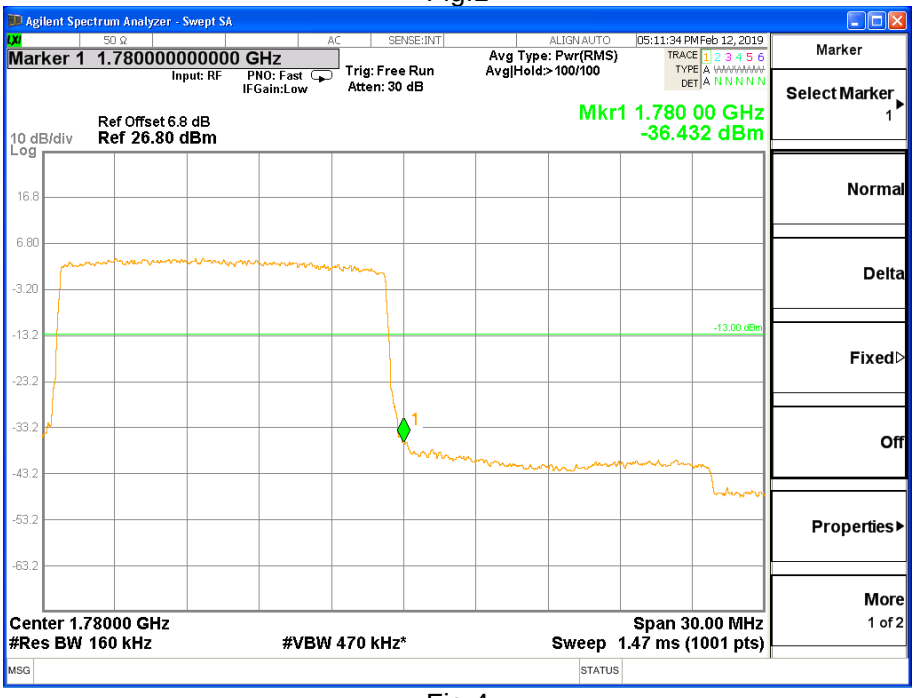


Fig.4

Band	Carrier frequency (MHz)	Channel(Low)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
66	1720	132072	20	1	0	Fig.1
				100	0	Fig.4

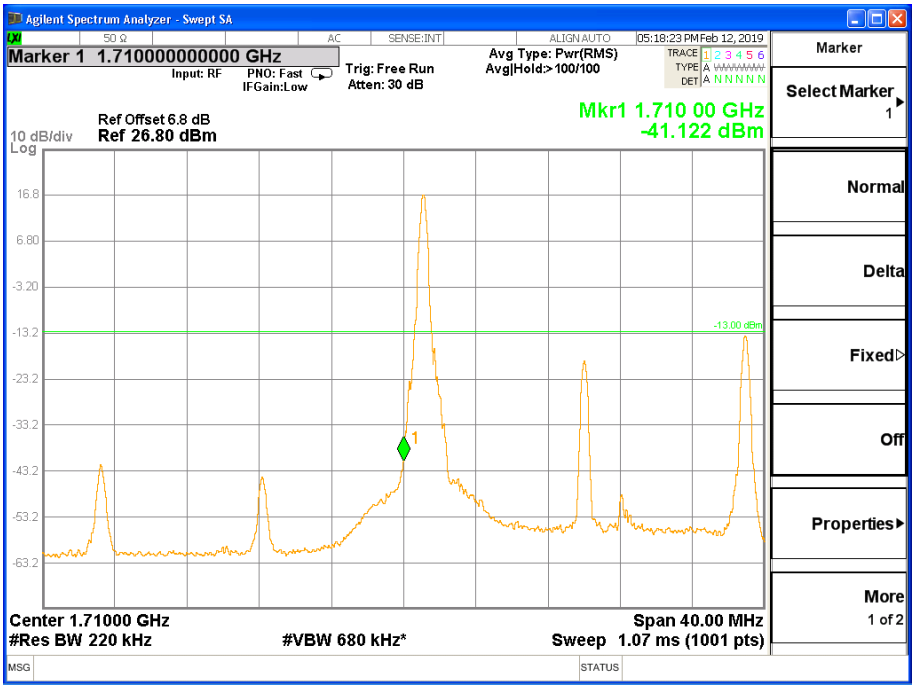


Fig.1

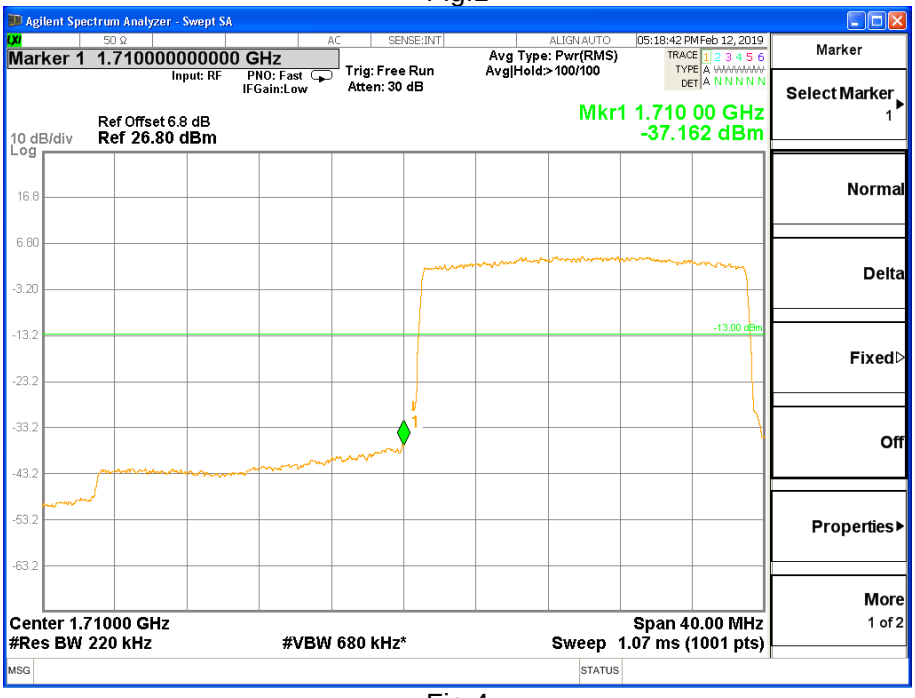


Fig.4

Band	Carrier frequency (MHz)	Channel(High)	BW	RB Size	RB Offset	Band EdgesPlot
						QPSK
66	1770	132572	20	1	99	Fig.1
				100	0	Fig.4

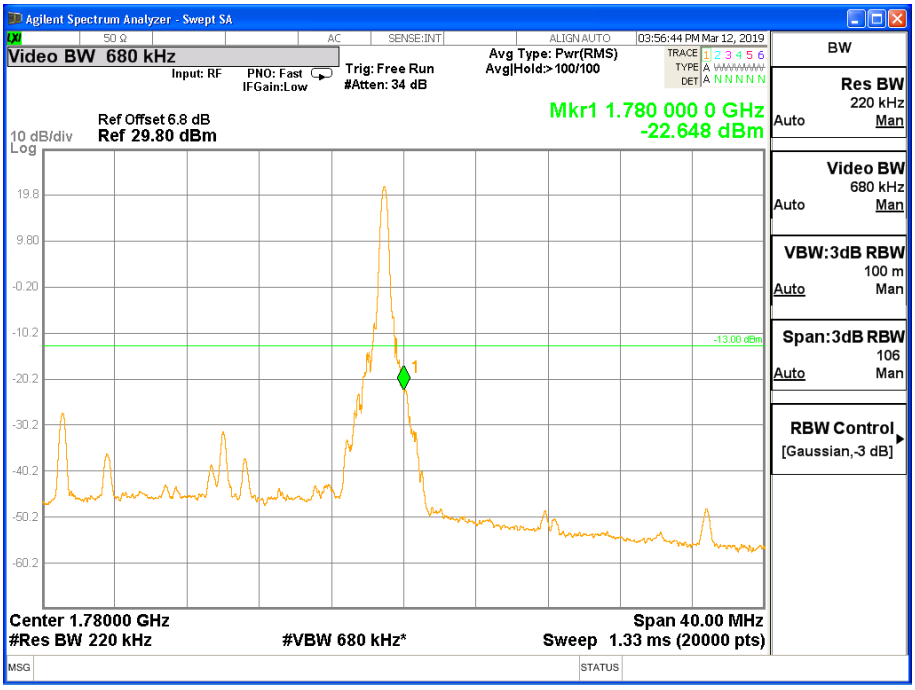


Fig.1

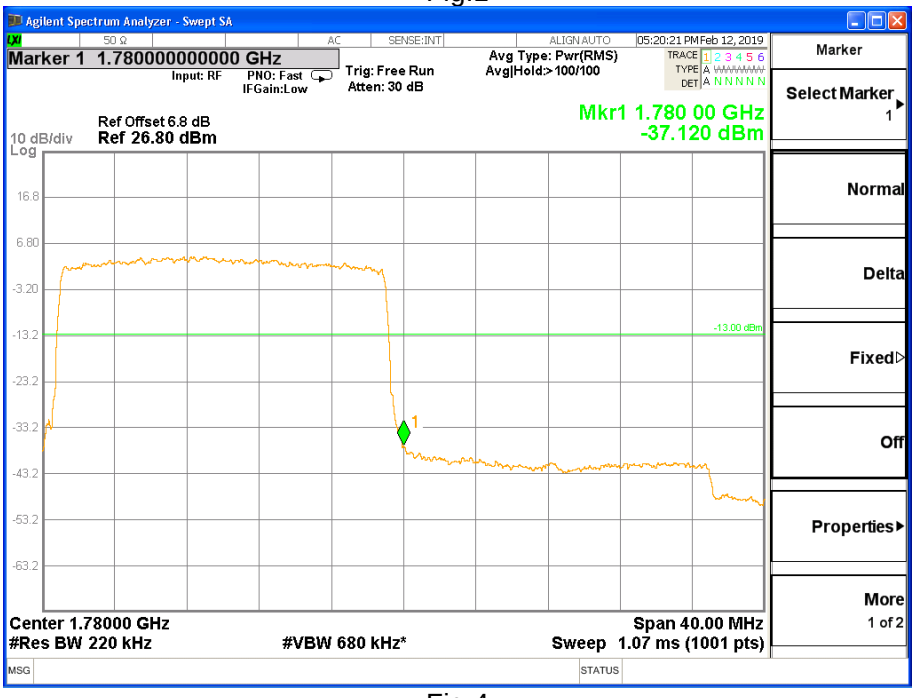


Fig.4

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band66 Low Channel					
		1.4M	3M	5M	10M	15M	20M
0	NV	0.013	0.015	0.002	0.003	0.009	0.002
+10	NV	-0.011	0.008	0.002	0.018	0.012	0.005
+20	NV	0.007	0.020	-0.005	0.010	0.012	0.006
+30	NV	0.012	0.002	0.004	0.007	0.016	0.015
+35	NV	0.009	-0.018	0.003	-0.006	0.017	-0.009
+20	LV	0.017	0.013	0.002	-0.005	0.016	-0.004
+20	HV	0.013	0.013	0.017	0.005	0.019	0.014

Temperature(°C)	Voltage	Test Result (ppm) Band66 High Channel					
		1.4M	3M	5M	10M	15M	20M
0	NV	0.015	-0.006	0.009	0.003	0.019	0.011
+10	NV	0.012	0.018	0.004	0.020	0.005	0.018
+20	NV	-0.004	0.020	-0.012	0.003	0.006	0.017
+30	NV	0.003	0.020	-0.004	0.017	-0.003	0.006
+35	NV	0.018	0.002	0.016	-0.008	0.018	0.016
+20	LV	0.020	0.006	-0.017	0.016	0.012	0.018
+20	HV	0.015	0.016	-0.007	0.017	0.019	0.010

APPENDIX B – TEST DATA OF RADIATED EMISSION

LTE band 2 (20MHz)
Test result:
Channel 18700

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.51	-49.00	-13	Vertical
2777.49	-47.73	-13	Vertical
3725.30	-40.65	-13	Vertical
6675.33	-40.13	-13	Horizontal
9959.56	-37.84	-13	Vertical
17821.79	-34.32	-13	Vertical

Channel 18900

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2454.95	-48.83	-13	Vertical
2777.36	-47.90	-13	Vertical
3726.99	-40.82	-13	Vertical
6678.52	-40.52	-13	Vertical
9964.08	-37.52	-13	Horizontal
17822.89	-34.72	-13	Vertical

Channel 19100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.44	-49.69	-13	Vertical
2778.34	-48.06	-13	Vertical
3727.66	-40.37	-13	Vertical
6676.44	-39.91	-13	Vertical
9961.56	-37.58	-13	Vertical
17822.09	-34.67	-13	Horizontal

LTE band 4 (20MHz)
We chose DIV Ant to perform the test for the worst case.
Test result:
Channel 20050

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2459.56	-48.44	-13	Vertical
2781.57	-47.78	-13	Vertical
3728.92	-39.88	-13	Vertical
6678.42	-40.31	-13	Vertical
9961.55	-37.85	-13	Horizontal
17821.97	-34.26	-13	Vertical

Channel 20175

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.85	-48.64	-13	Vertical
2779.41	-46.92	-13	Vertical
3728.65	-40.11	-13	Vertical
6680.37	-39.96	-13	Vertical
9962.29	-37.41	-13	Vertical
17820.46	-33.62	-13	Horizontal

Channel 20300

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2457.50	-49.45	-13	Vertical
2776.59	-47.26	-13	Vertical
3728.07	-41.06	-13	Vertical
6676.34	-40.29	-13	Vertical
9962.93	-37.64	-13	Horizontal
17823.32	-35.05	-13	Vertical

LTE band 5 (10MHz)
We chose Main Ant to perform the test for the worst case.
Test result:
Channel 20450

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1645.59	-53.12	-13	Vertical
1667.31	-51.68	-13	Horizontal
2536.39	-44.72	-13	Vertical
2575.21	-44.07	-13	Vertical
8960.01	-39.14	-13	Vertical
9971.15	-35.97	-13	Vertical

Channel 20525

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1647.05	-52.68	-13	Vertical
1663.67	-51.67	-13	Vertical
2532.20	-43.94	-13	Vertical
2575.29	-44.33	-13	Horizontal
8965.13	-39.05	-13	Vertical
9970.09	-35.81	-13	Vertical

Channel 20600

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1646.27	-51.74	-13	Vertical
1666.56	-51.94	-13	Vertical
2536.23	-43.97	-13	Vertical
2576.14	-44.14	-13	Vertical
8963.20	-39.52	-13	Vertical
9970.61	-36.03	-13	Horizontal

LTE band 7 (20MHz)
Test result:
Channel 20850

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2457.63	-48.87	-25	Vertical
2777.85	-47.41	-25	Horizontal
3728.04	-40.12	-25	Vertical
6677.95	-39.42	-25	
9958.55	-37.15	-25	Vertical
17821.00	-35.10	-25	Vertical

Channel 21100

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2456.94	-48.99	-25	Horizontal
2776.34	-48.05	-25	Vertical
3728.74	-40.45	-25	Vertical
6676.79	-40.04	-25	Vertical
9962.98	-37.86	-25	Vertical
17824.71	-35.08	-25	Vertical

Channel 21350

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.38	-48.89	-25	Vertical
2780.26	-47.69	-25	Vertical
3729.93	-40.08	-25	Vertical
6676.01	-40.08	-25	Vertical
9961.40	-37.17	-25	Horizontal
17821.66	-34.29	-25	Vertical

LTE band 12 (10MHz)
We chose Main Ant to perform the test for the worst case.
Test result:
Channel 23060

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1648.38	-53.24	-13	Vertical
1667.76	-51.13	-13	Horizontal
2533.29	-44.03	-13	Vertical
2577.80	-44.40	-13	Vertical
8963.76	-39.41	-13	Vertical
9970.64	-36.38	-13	Vertical

Channel 23095

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1644.82	-52.40	-13	Horizontal
1663.82	-51.60	-13	Vertical
2534.44	-43.97	-13	Vertical
2577.47	-43.80	-13	Vertical
8960.66	-39.52	-13	Vertical
9969.28	-36.43	-13	Vertical

Channel 23139

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
1649.55	-52.78	-13	Vertical
1665.85	-50.68	-13	Horizontal
2531.63	-43.38	-13	Horizontal
2575.04	-43.94	-13	Vertical
8966.13	-40.09	-13	Vertical
9969.13	-35.70	-13	Vertical

LTE band 66 (20MHz)
We chose DIV Ant to perform the test for the worst case.
Test result:
Channel 132072

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2456.03	-49.25	-13	Vertical
2779.73	-47.01	-13	Horizontal
3724.55	-41.24	-13	Vertical
6678.26	-39.22	-13	Vertical
9961.20	-37.60	-13	Vertical
17823.90	-34.49	-13	Vertical

Channel 132322

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2458.24	-49.08	-13	Vertical
2778.13	-47.82	-13	Vertical
3726.90	-40.79	-13	Vertical
6678.92	-40.15	-13	Vertical
9957.03	-37.15	-13	Vertical
17822.93	-34.12	-13	Horizontal

Channel 132572

Frequency (MHz)	Power (dBm)	Limited (dBm)	Polarization
2461.26	-48.36	-13	Vertical
2780.96	-48.05	-13	Vertical
3729.77	-40.53	-13	Vertical
6675.78	-39.42	-13	Vertical
9962.09	-36.77	-13	Horizontal
17822.87	-34.93	-13	Vertical

---End of Test Report---