

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 13

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	779.5	23205	5	1	0	23.73
				1	24	23.68
				12	6	22.65
				25	0	22.62
	782	23230		1	0	23.71
				1	24	23.66
				12	6	22.61
				25	0	22.57
	784.5	23255		1	0	23.77
				1	24	23.73
				12	6	22.71
				25	0	22.66
16QAM	779.5	23205	5	1	0	22.68
				1	24	22.63
				12	6	21.57
				25	0	21.58
	782	23230		1	0	22.63
				1	24	22.60
				12	6	21.51
				25	0	21.51
	784.5	23255		1	0	22.75
				1	24	22.66
				12	6	21.63
				25	0	21.62

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	782	23230	10	1	0	23.87
				1	49	23.81
				24	12	22.76
				50	0	22.73
16QAM	782	23230	10	1	0	22.89
				1	49	22.83
				24	12	21.80
				50	0	21.78

2 Occupied Bandwidth

Test result

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)			
						QPSK		16-QAM	
13	779.5	23205	5	25	0	4.5017	Fig.1	4.5032	Fig.2
	782	23230		25	0	4.5042	Fig.3	4.5057	Fig.4
	784.5	23255		25	0	4.5051	Fig.5	4.5085	Fig.6
	782	23230	10	50	0	8.9432	Fig.7	8.9264	Fig.8

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)			
						QPSK		16-QAM	
13	779.5	23205	5	25	0	5.038	Fig.1	5.007	Fig.2
	782	23230		25	0	5.030	Fig.3	4.996	Fig.4
	784.5	23255		25	0	5.047	Fig.5	5.073	Fig.6
	782	23230	10	50	0	9.686	Fig.7	9.634	Fig.8

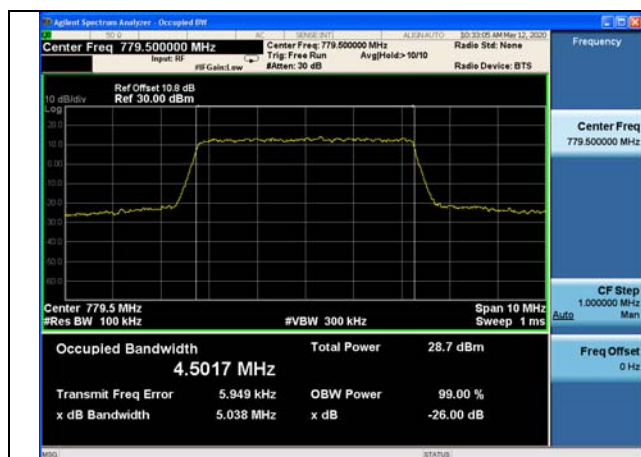


Fig.1

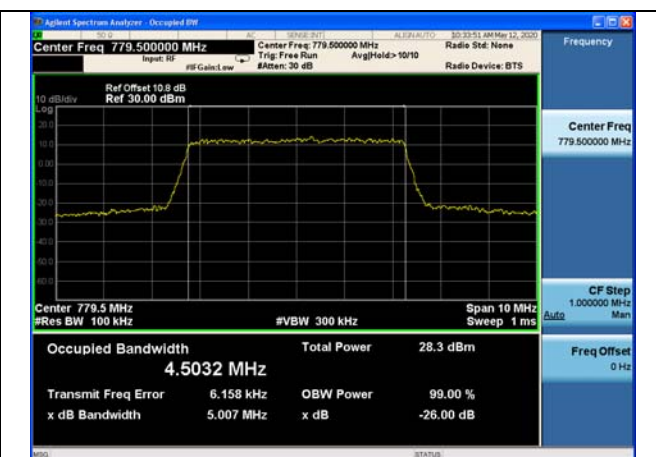


Fig.2

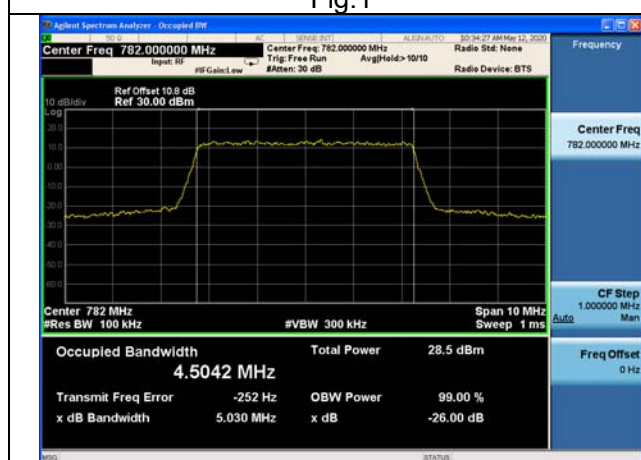


Fig.3

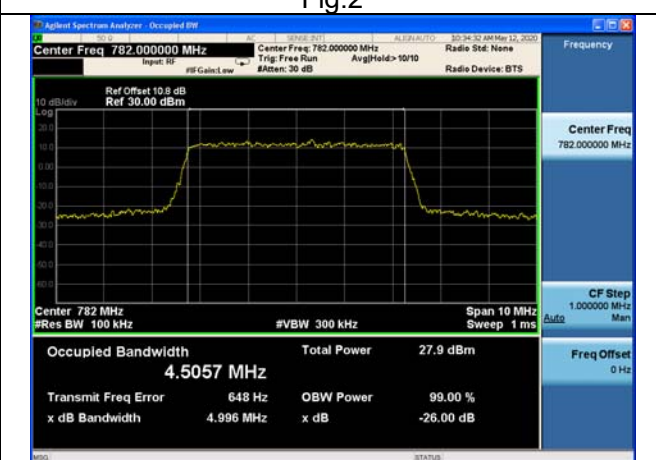


Fig.4

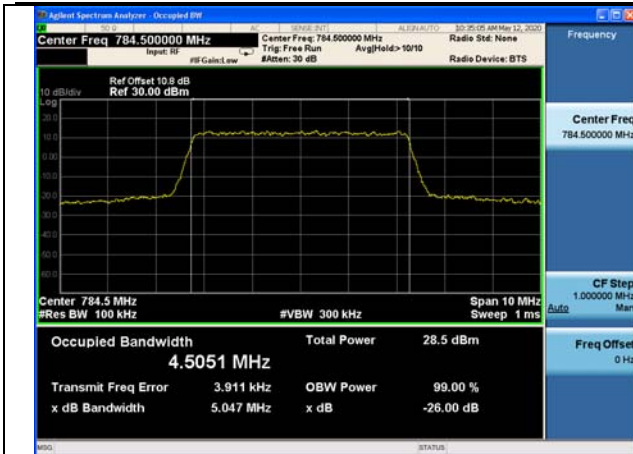


Fig.5



Fig.6

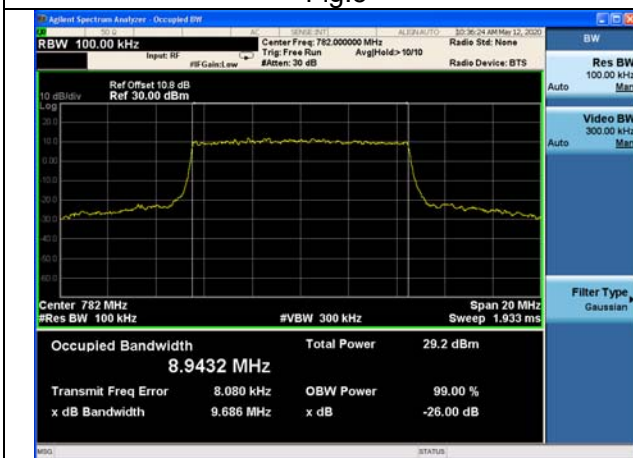


Fig.7

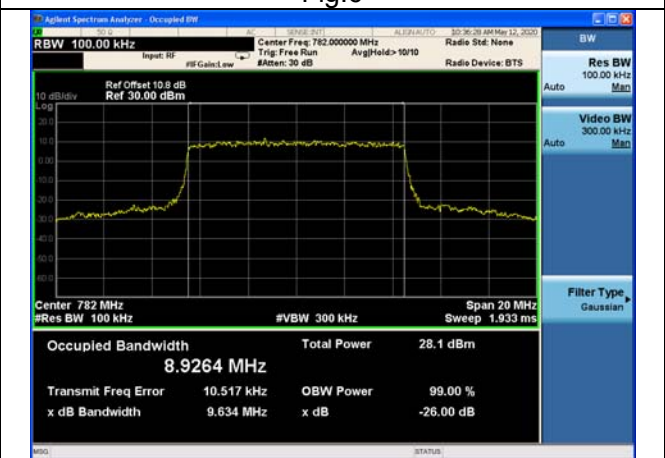


Fig.8

3 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM
13	782	23230	5	1	0	Fig.1	Fig.2
			10	1	0	Fig.3	Fig.4

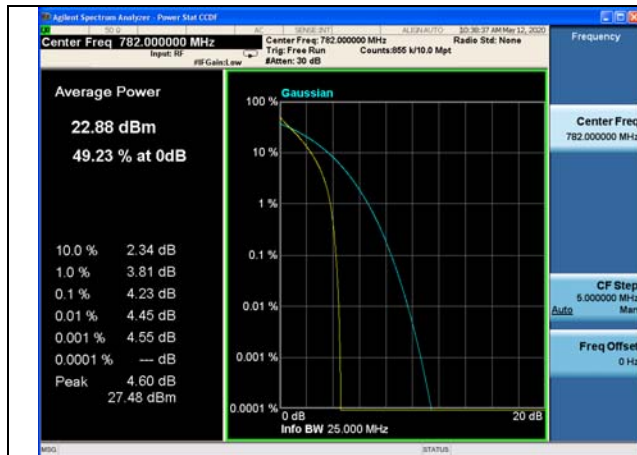


Fig.1

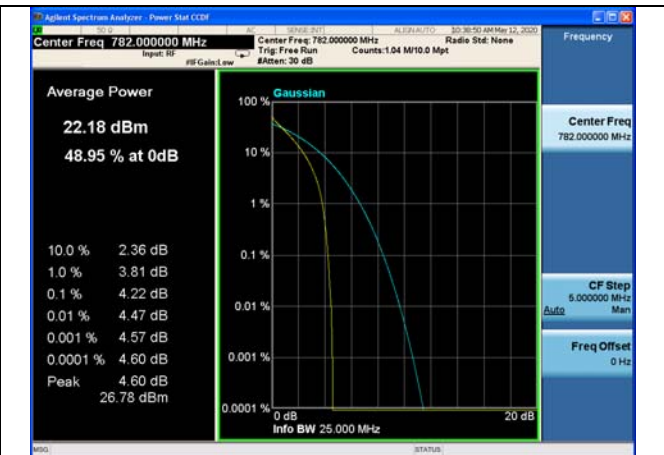


Fig.2

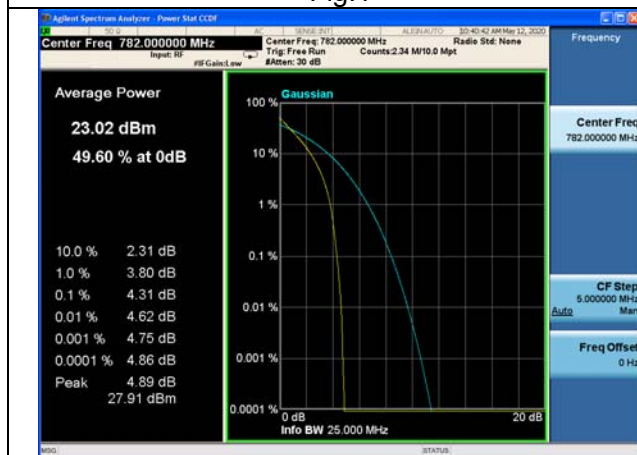


Fig.3

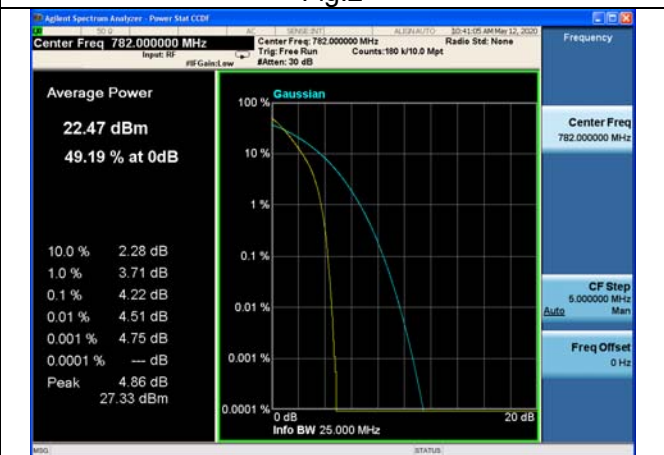


Fig.4

4 Spurious Emissions at antenna terminal

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Conducted Spurious Plot
						QPSK
13	782	23230	10	1	0	Fig.1-2

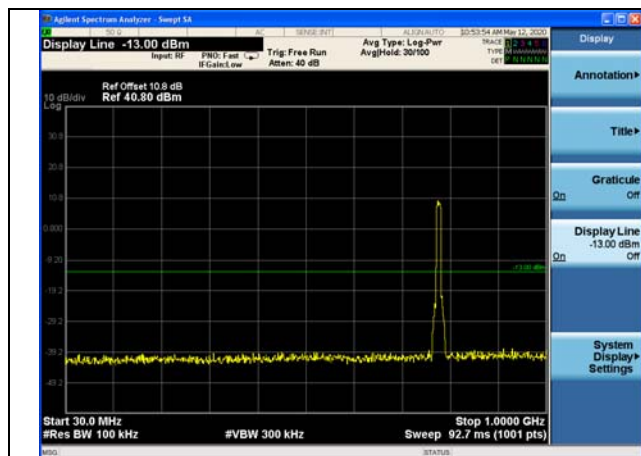


Fig.1

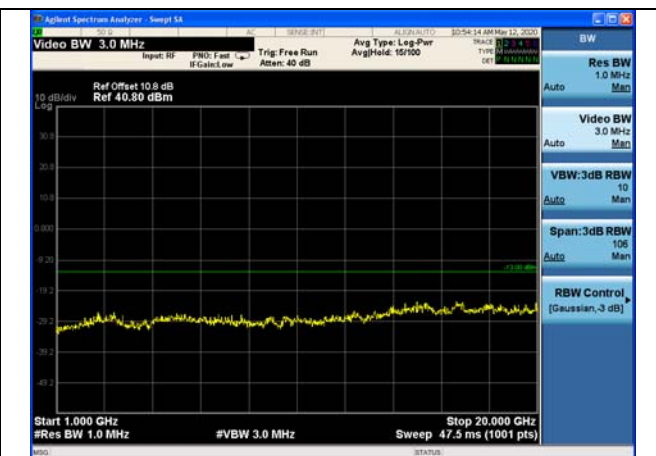


Fig.2

5 Band Edges Compliance

Test result

Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
13	779.5	23205	5	1	0	Fig.1
				25	0	Fig.2
	784.5	23255		1	24	Fig.3
				25	0	Fig.4
	782	23230	10	1	0	Fig.5
				50	0	Fig.6
	782	23230		1	49	Fig.7
				50	0	Fig.8

Emission Mask Edge

Emission Mask Edge						
Band	Carrier frequency (MHz)	Channel	BW	RB Size	RB Offset	Band Edges Plot
						QPSK
13	779.5	23205	5	1	0	Fig.9
				25	0	Fig.10
	784.5	23255		1	24	Fig.11
				25	0	Fig.12
	782	23230	10	1	0	Fig.13
				50	0	Fig.14
	782	23230		1	49	Fig.15
				50	0	Fig.16

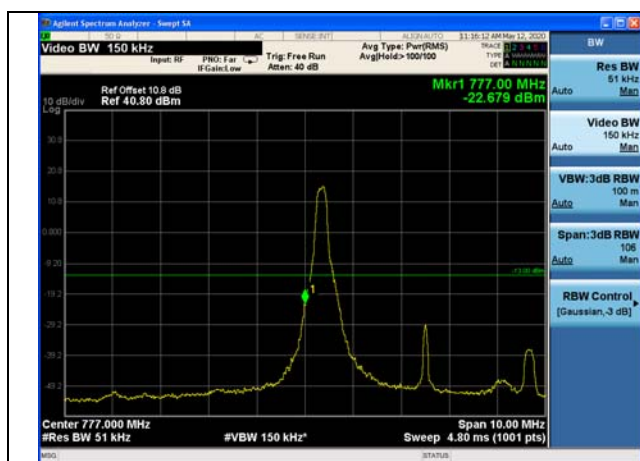


Fig.1

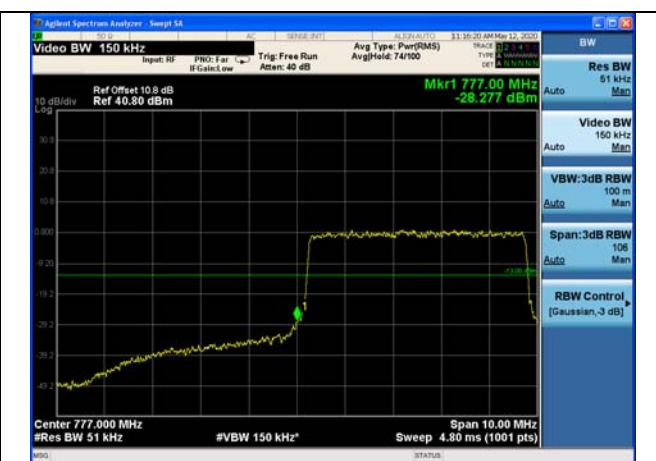


Fig.2

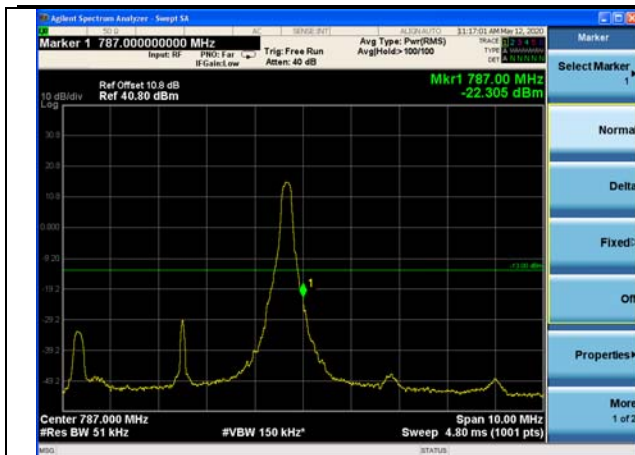


Fig.3

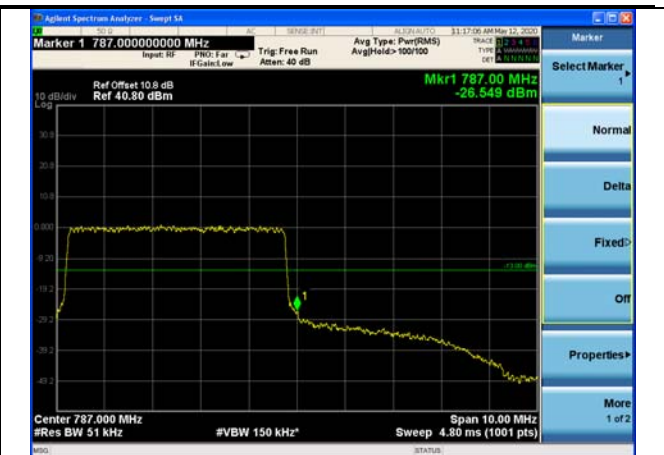


Fig.4

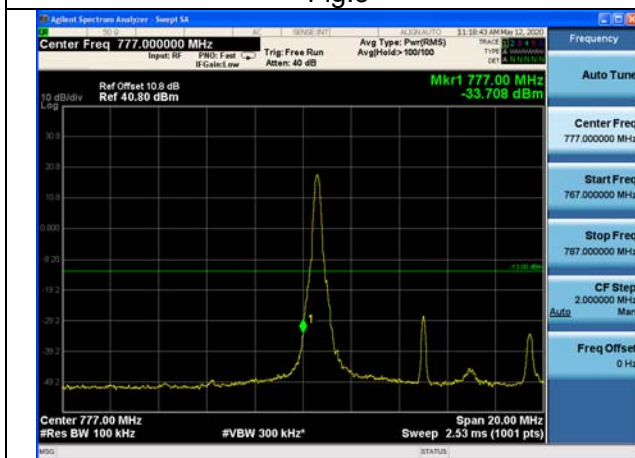


Fig.5

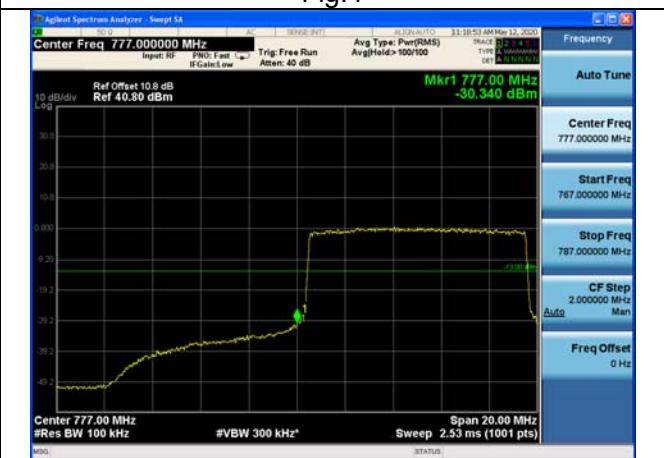


Fig.6

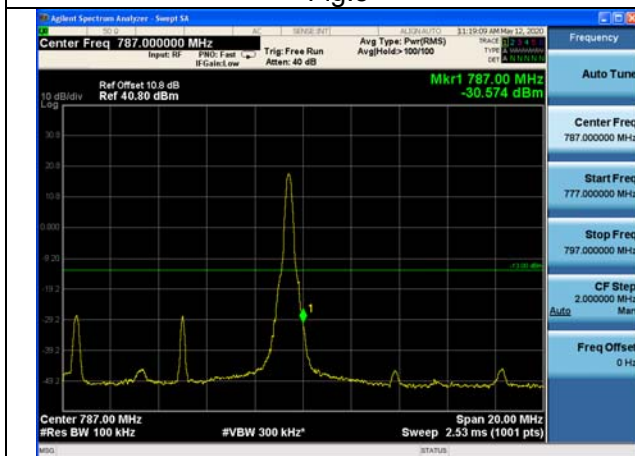


Fig.7



Fig.8

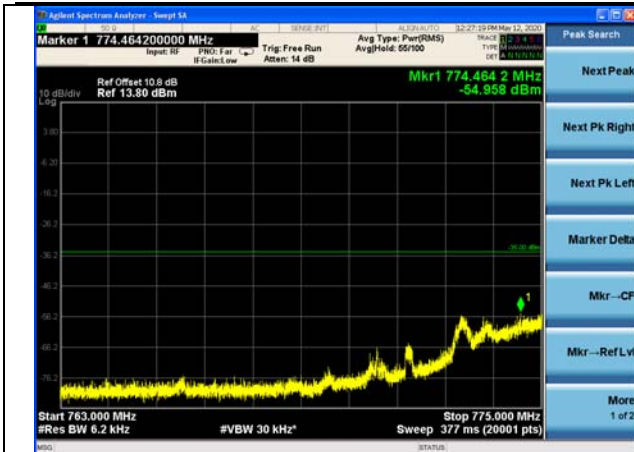


Fig.9

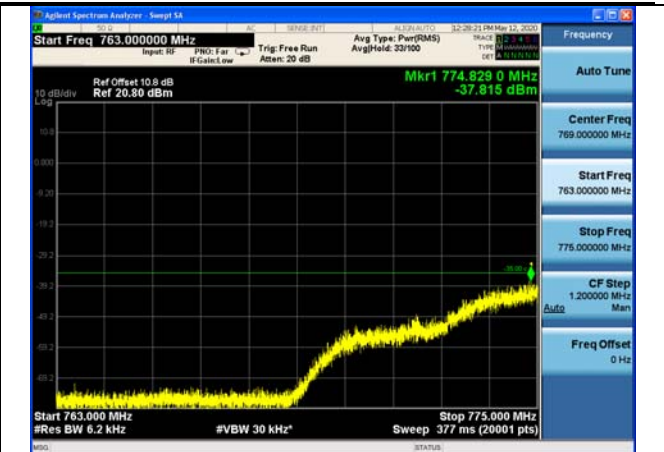


Fig.10

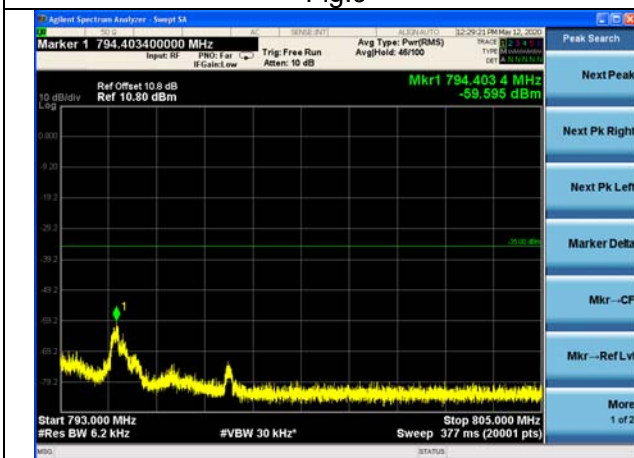


Fig.11

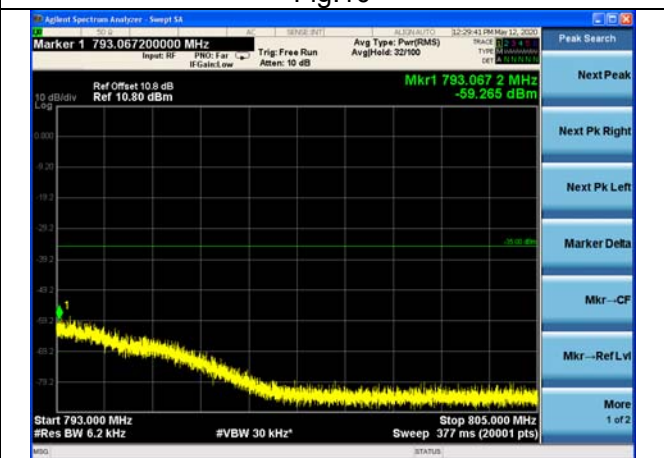


Fig.12

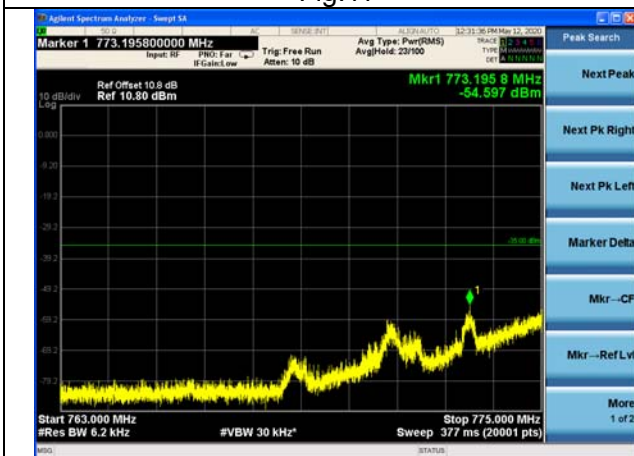


Fig.13

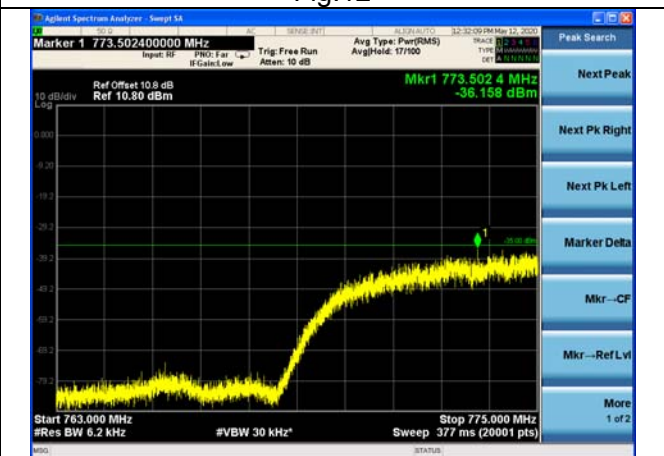


Fig.14

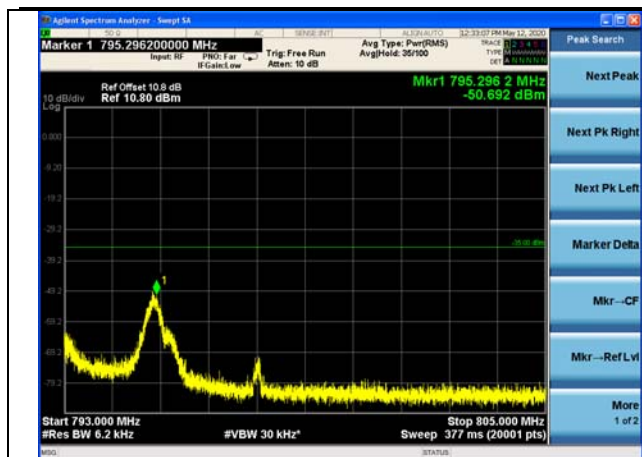


Fig.15

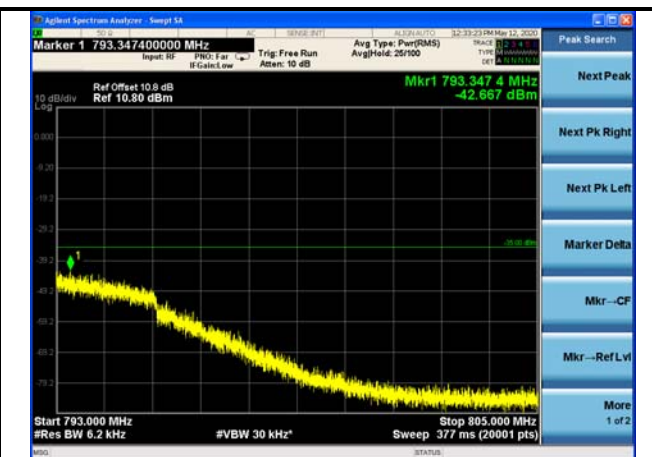


Fig.16

6 Frequency Stability

Test result:

Temperature(°C)	Voltage	Test Result (ppm) Band13 Low Channel	
		5M	10M
-10	NV	0.007	0.023
0	NV	-0.005	-0.010
10	NV	0.006	-0.019
20	NV	0.000	0.000
30	NV	0.018	0.007
40	NV	-0.014	-0.001
50	NV	0.008	0.025
55	NV	0.021	0.027
20	LV	-0.022	0.011
20	HV	-0.001	0.018

Temperature(°C)	Voltage	Test Result (ppm) Band13 High Channel	
		5M	10M
-10	NV	0.003	0.021
0	NV	-0.001	-0.001
10	NV	0.0011	0.026
20	NV	0.000	0.000
30	NV	0.031	0.022
40	NV	0.005	-0.015
50	NV	0.026	-0.010
55	NV	0.022	0.007
20	LV	0.006	-0.004
20	HV	0.009	-0.011