

Fig.13

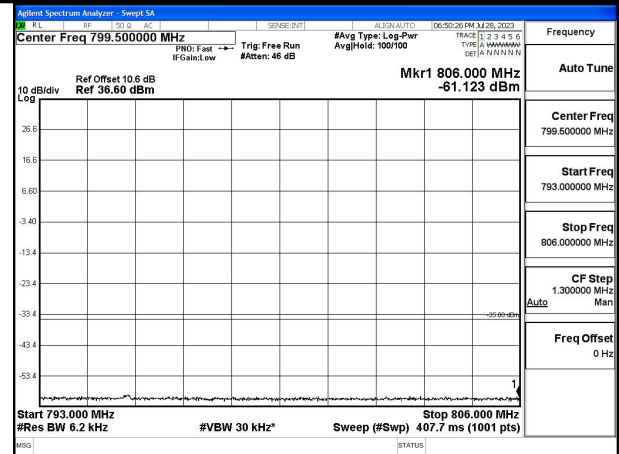


Fig.14

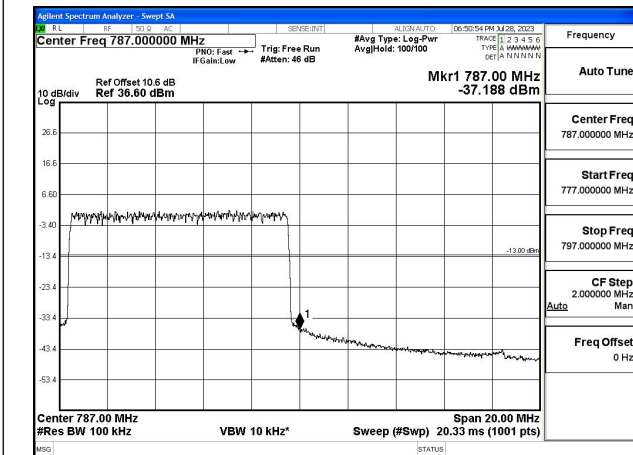


Fig.15

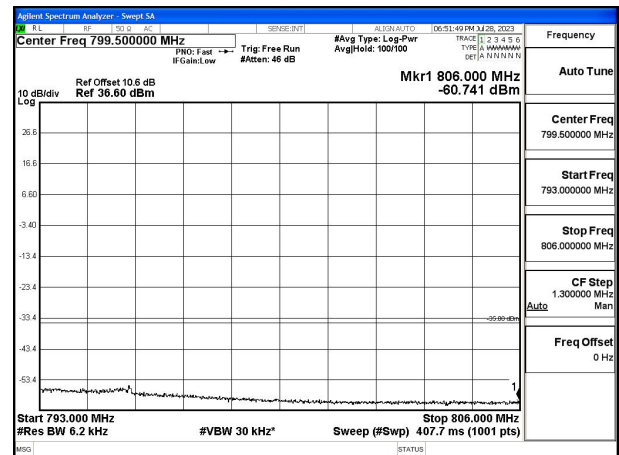


Fig.16

## 7 Frequency Stability

Temperature(°C)	Voltage	Test Result (ppm) Band 13 Low Channel QPSK	
		5M	10M
-10	NV	-0.011	-0.007
0	NV	-0.007	-0.007
+10	NV	-0.010	-0.014
+20	NV	-0.009	-0.003
+30	NV	-0.013	-0.012
+40	NV	-0.011	-0.015
+50	NV	-0.005	-0.011
+55	NV	-0.004	-0.012
+20	LV	-0.010	-0.015
+20	HV	-0.012	-0.011

Temperature(°C)	Voltage	Test Result (ppm) Band 13 High Channel QPSK	
		5M	10M
-10	NV	-0.010	-0.013
0	NV	-0.011	-0.014
+10	NV	-0.016	-0.011
+20	NV	-0.009	-0.011
+30	NV	-0.014	-0.012
+40	NV	-0.008	-0.015
+50	NV	-0.012	-0.018
+55	NV	-0.011	-0.012
+20	LV	-0.008	-0.018
+20	HV	-0.011	-0.008

### 8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
QPSK	779.5	23205	5	1	0	23.60	15.45	0.035
QPSK	779.5	23205	5	1	12	23.88	15.73	0.037
QPSK	779.5	23205	5	1	24	23.70	15.55	0.036
QPSK	779.5	23205	5	12	0	22.70	14.55	0.029
QPSK	779.5	23205	5	12	7	22.85	14.70	0.030
QPSK	779.5	23205	5	12	13	22.87	14.72	0.030
QPSK	779.5	23205	5	25	0	22.79	14.64	0.029
QPSK	782	23230	5	1	0	23.81	15.66	0.037
QPSK	782	23230	5	1	12	23.94	15.79	0.038
QPSK	782	23230	5	1	24	23.64	15.49	0.035
QPSK	782	23230	5	12	0	22.87	14.72	0.030
QPSK	782	23230	5	12	7	22.96	14.81	0.030
QPSK	782	23230	5	12	13	22.91	14.76	0.030
QPSK	782	23230	5	25	0	22.83	14.68	0.029
QPSK	784.5	23255	5	1	0	23.78	15.63	0.037
QPSK	784.5	23255	5	1	12	24.05	15.90	0.039
QPSK	784.5	23255	5	1	24	23.70	15.55	0.036
QPSK	784.5	23255	5	12	0	22.86	14.71	0.030
QPSK	784.5	23255	5	12	7	22.87	14.72	0.030
QPSK	784.5	23255	5	12	13	22.81	14.66	0.029
QPSK	784.5	23255	5	25	0	22.77	14.62	0.029

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
16QAM	779.5	23205	5	1	0	22.86	14.71	0.030
16QAM	779.5	23205	5	1	12	23.23	15.08	0.032
16QAM	779.5	23205	5	1	24	23.03	14.88	0.031
16QAM	779.5	23205	5	12	0	21.75	13.60	0.023
16QAM	779.5	23205	5	12	7	21.83	13.68	0.023
16QAM	779.5	23205	5	12	13	21.77	13.62	0.023
16QAM	779.5	23205	5	25	0	21.82	13.67	0.023
16QAM	782	23230	5	1	0	22.91	14.76	0.030
16QAM	782	23230	5	1	12	23.09	14.94	0.031
16QAM	782	23230	5	1	24	22.85	14.70	0.030
16QAM	782	23230	5	12	0	21.85	13.70	0.023
16QAM	782	23230	5	12	7	21.94	13.79	0.024
16QAM	782	23230	5	12	13	21.88	13.73	0.024
16QAM	782	23230	5	25	0	21.85	13.70	0.023
16QAM	784.5	23255	5	1	0	23.18	15.03	0.032
16QAM	784.5	23255	5	1	12	23.43	15.28	0.034
16QAM	784.5	23255	5	1	24	23.13	14.98	0.031
16QAM	784.5	23255	5	12	0	21.73	13.58	0.023

16QAM	784.5	23255	5	12	7	21.89	13.74	0.024
16QAM	784.5	23255	5	12	13	21.82	13.67	0.023
16QAM	784.5	23255	5	25	0	21.83	13.68	0.023

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
QPSK	782	23230	10	1	0	23.77	15.62	0.036
QPSK	782	23230	10	1	25	23.96	15.81	0.038
QPSK	782	23230	10	1	49	23.82	15.67	0.037
QPSK	782	23230	10	25	0	22.91	14.76	0.030
QPSK	782	23230	10	25	12	22.94	14.79	0.030
QPSK	782	23230	10	25	25	22.86	14.71	0.030
QPSK	782	23230	10	50	0	22.95	14.80	0.030
QPSK	782	23230	10	1	0	23.83	15.68	0.037
QPSK	782	23230	10	1	25	24.04	15.89	0.039
QPSK	782	23230	10	1	49	23.85	15.70	0.037
QPSK	782	23230	10	25	0	22.84	14.69	0.029
QPSK	782	23230	10	25	12	22.97	14.82	0.030
QPSK	782	23230	10	25	25	22.92	14.77	0.030
QPSK	782	23230	10	50	0	22.87	14.72	0.030
QPSK	782	23230	10	1	0	23.79	15.64	0.037
QPSK	782	23230	10	1	25	24.09	15.94	0.039
QPSK	782	23230	10	1	49	23.80	15.65	0.037
QPSK	782	23230	10	25	0	22.85	14.70	0.030
QPSK	782	23230	10	25	12	22.94	14.79	0.030
QPSK	782	23230	10	25	25	22.92	14.77	0.030
QPSK	782	23230	10	50	0	23.00	14.85	0.031

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	ERP/EIRP (dBm)	ERP/EIRP (W)
16QAM	782	23230	10	1	0	23.39	15.24	0.033
16QAM	782	23230	10	1	25	23.58	15.43	0.035
16QAM	782	23230	10	1	49	23.38	15.23	0.033
16QAM	782	23230	10	25	0	21.93	13.78	0.024
16QAM	782	23230	10	25	12	21.95	13.80	0.024
16QAM	782	23230	10	25	25	21.99	13.84	0.024
16QAM	782	23230	10	50	0	21.93	13.78	0.024
16QAM	782	23230	10	1	0	23.46	15.31	0.034
16QAM	782	23230	10	1	25	23.52	15.37	0.034
16QAM	782	23230	10	1	49	23.39	15.24	0.033
16QAM	782	23230	10	25	0	21.91	13.76	0.024
16QAM	782	23230	10	25	12	21.92	13.77	0.024
16QAM	782	23230	10	25	25	21.96	13.81	0.024
16QAM	782	23230	10	50	0	22.02	13.87	0.024
16QAM	782	23230	10	1	0	23.43	15.28	0.034
16QAM	782	23230	10	1	25	23.45	15.30	0.034

16QAM	782	23230	10	1	49	23.42	15.27	0.034
16QAM	782	23230	10	25	0	21.97	13.82	0.024
16QAM	782	23230	10	25	12	22.04	13.89	0.024
16QAM	782	23230	10	25	25	21.96	13.81	0.024
16QAM	782	23230	10	50	0	22.01	13.86	0.024

## The original report test date

### 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

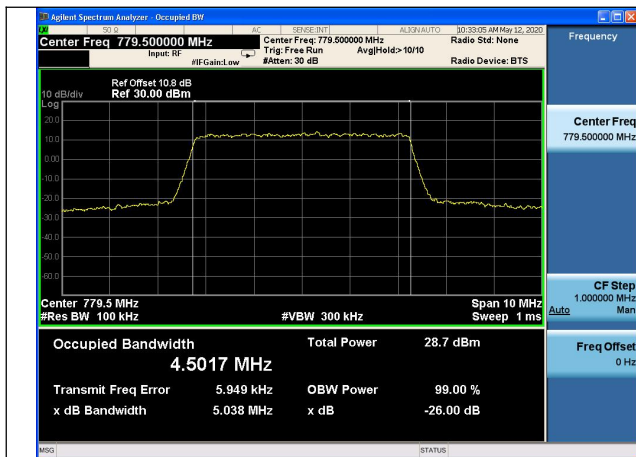


Fig.1



Fig.2

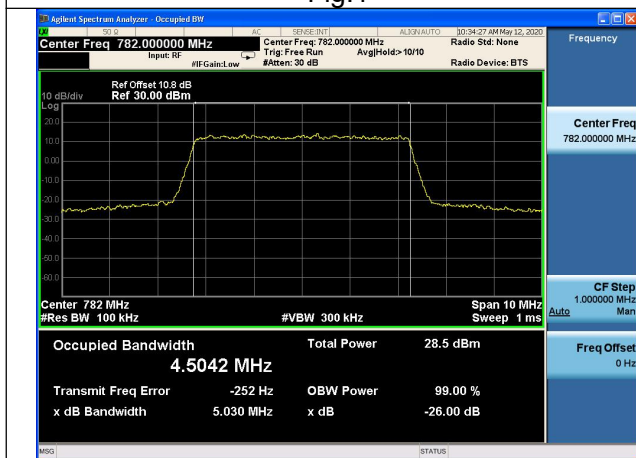


Fig.3



Fig.4

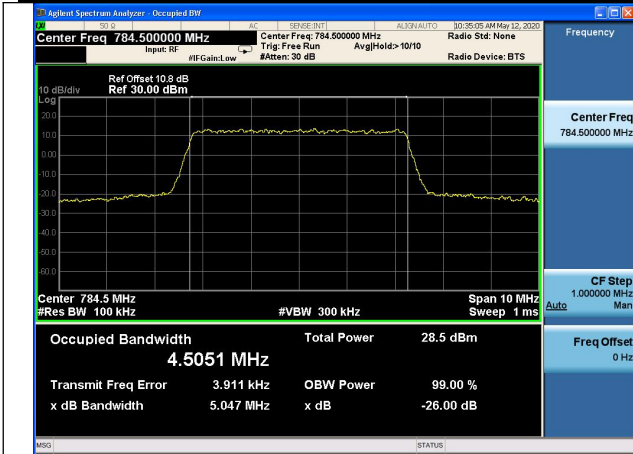


Fig.5



Fig.6

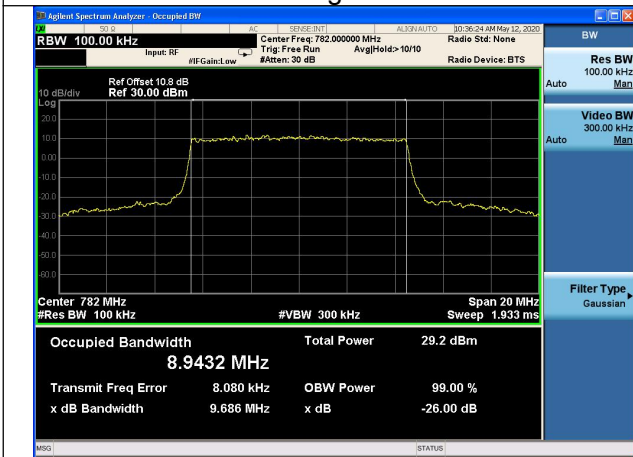


Fig.7

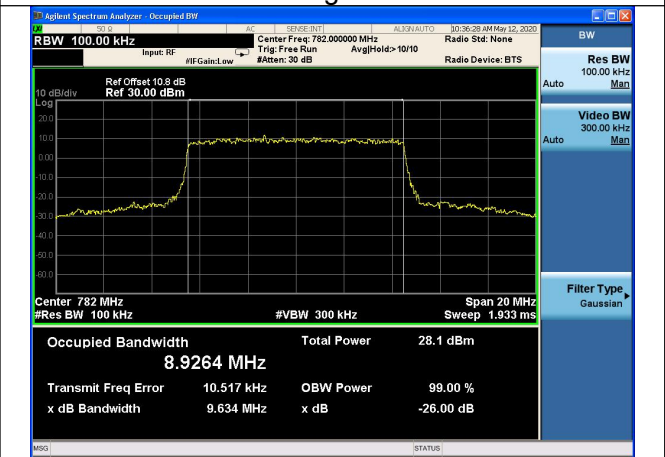


Fig.8

### 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

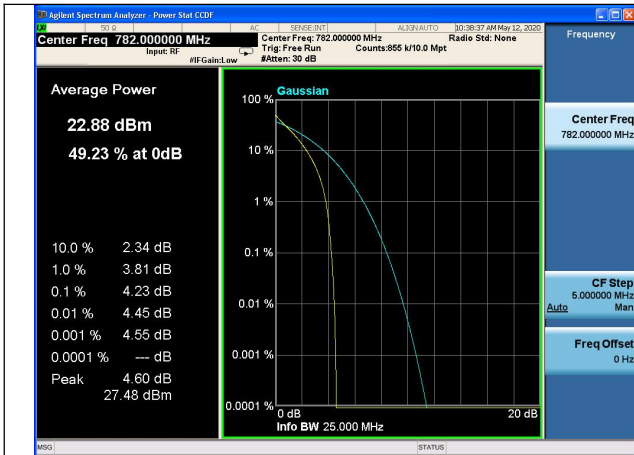


Fig.1

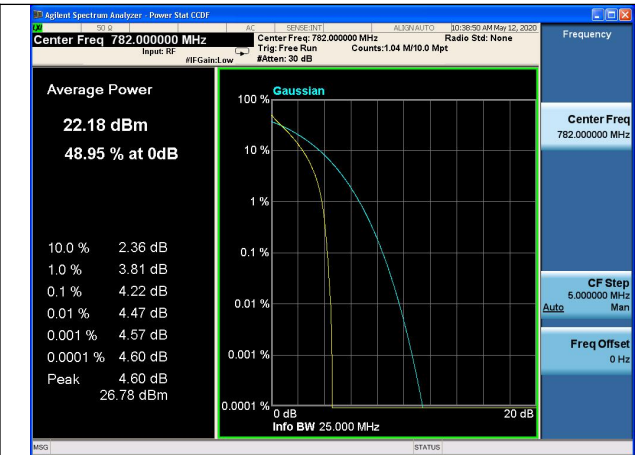


Fig.2

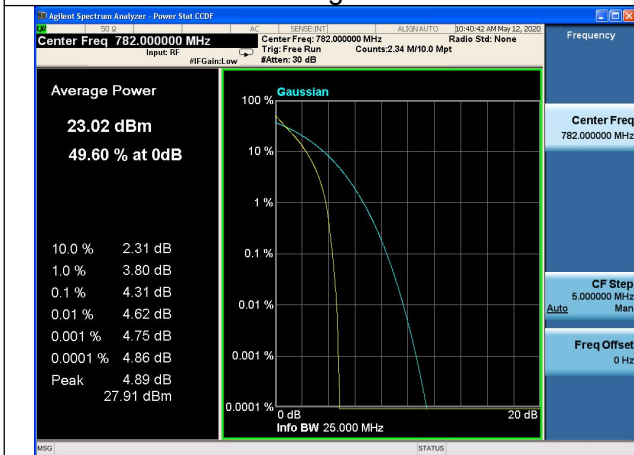


Fig.3

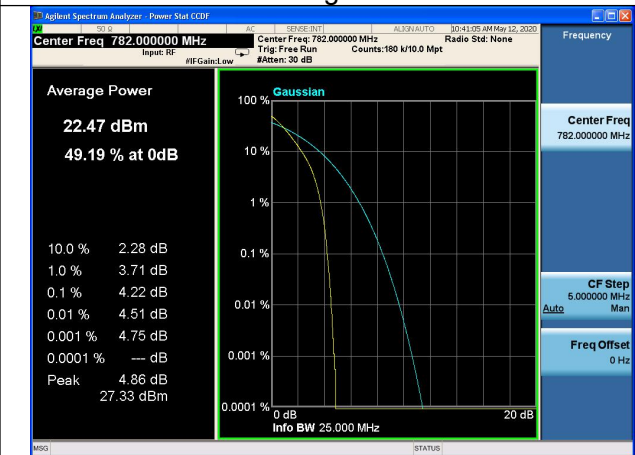


Fig.4



#### 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

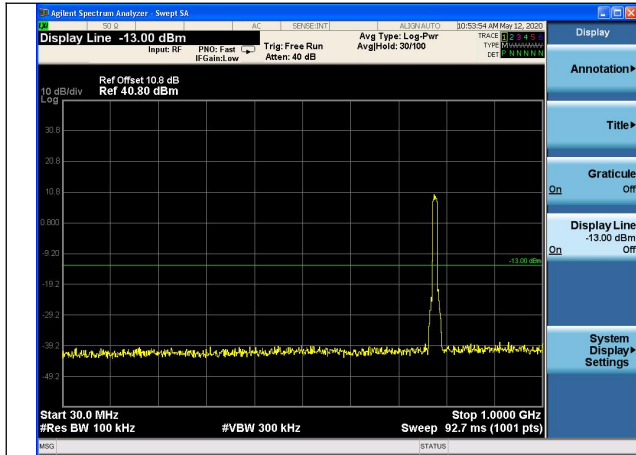


Fig.1



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

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

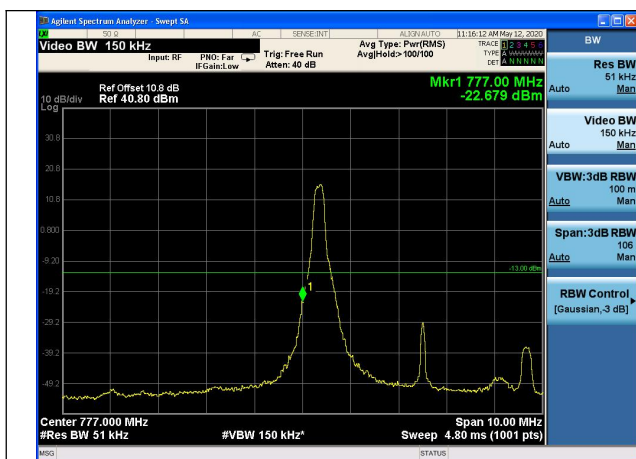


Fig.1

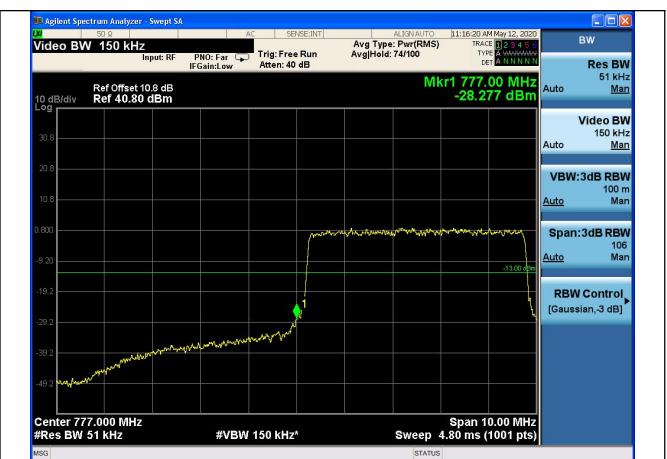


Fig.2

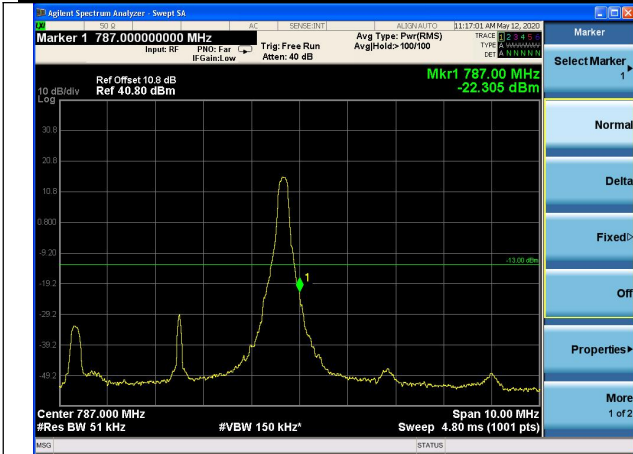


Fig.3



Fig.4

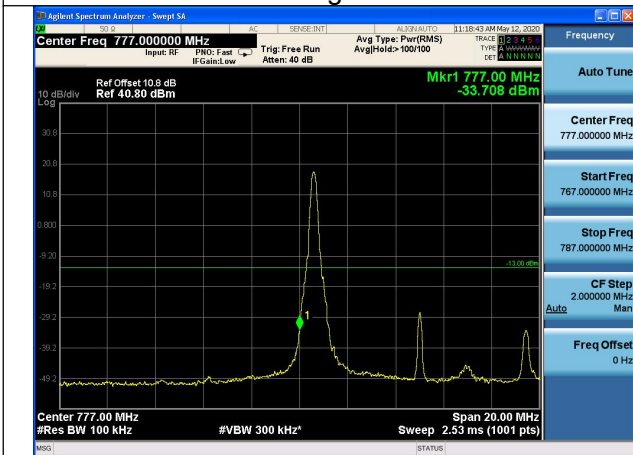


Fig.5

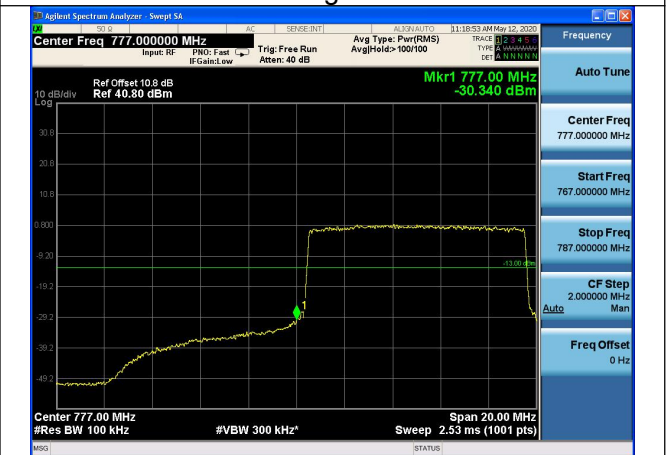


Fig.6

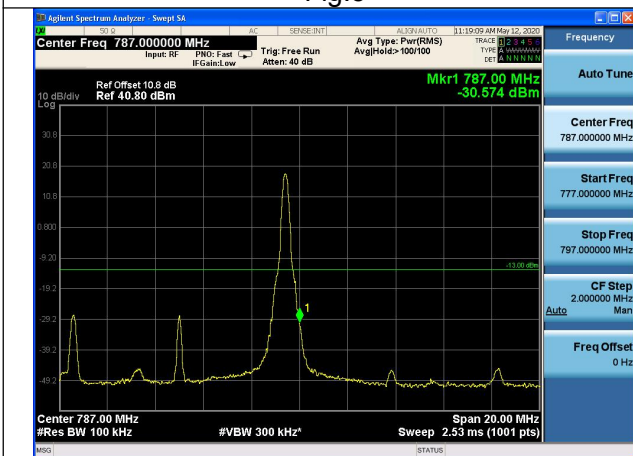


Fig.7

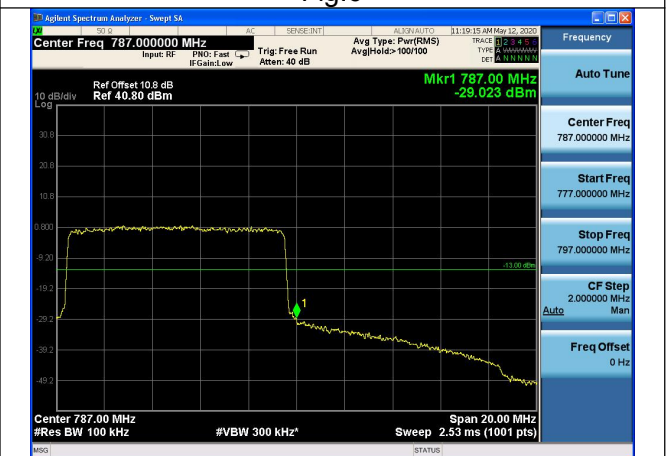


Fig.8



Fig.9

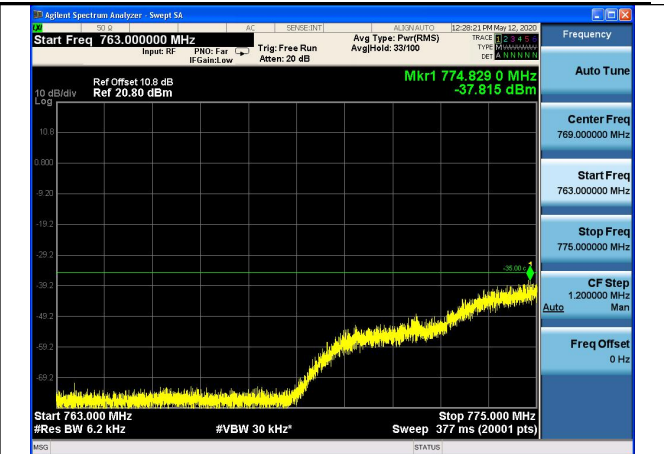


Fig.10



Fig.11

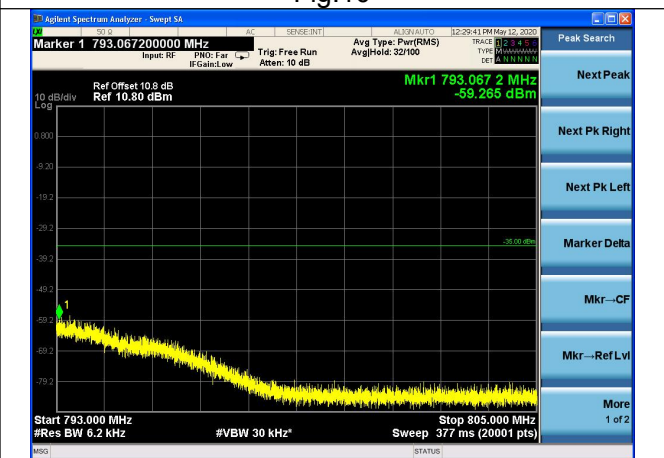


Fig.12



Fig.13

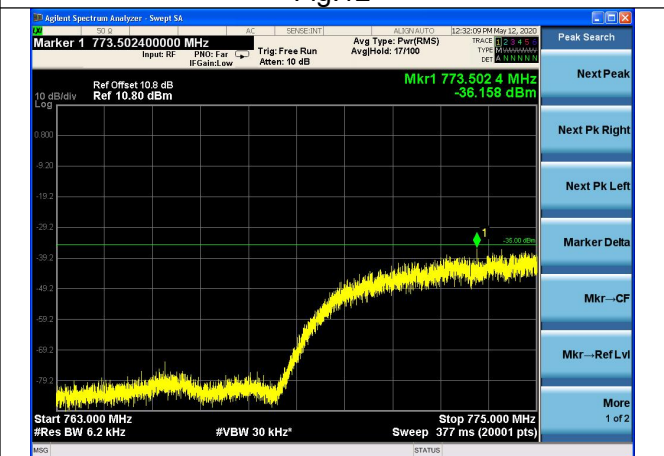


Fig.14

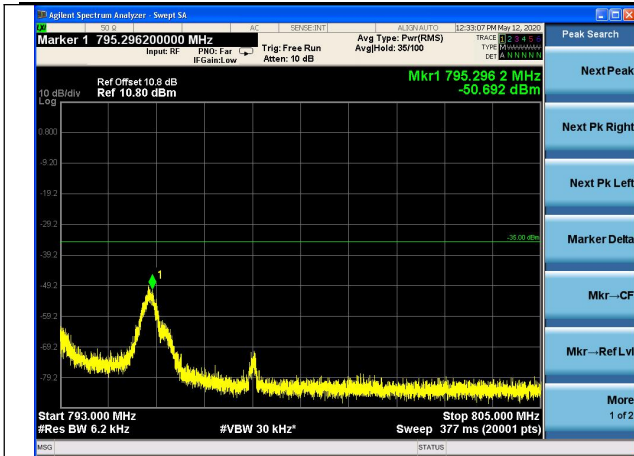


Fig.15

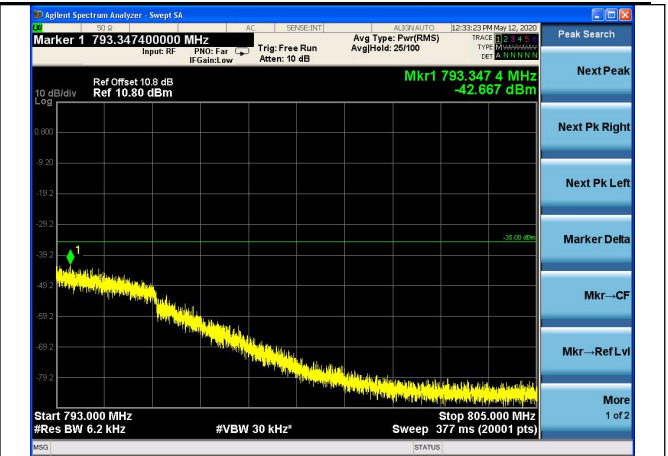


Fig.16

## 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