APPENDIX A – TEST DATA OF CONDUCTED EMISSION

N30(2305-2315)

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW (MHz)	RB Size	RB Offset	Conducted power (dBm)
DFT-s-OFDM PI/2 BPSK	2310	462000	10	25	12	16.06
DFT-s-OFDM PI/2 BPSK	2310	462000	10	1	1	16.09
DFT-s-OFDM PI/2 BPSK	2310	462000	10	1	50	16.20
DFT-s-OFDM PI/2 BPSK	2310	462000	10	50	0	15.10
DFT-s-OFDM QPSK	2310	462000	10	25	12	16.07
DFT-s-OFDM QPSK	2310	462000	10	1	1	16.06
DFT-s-OFDM QPSK	2310	462000	10	1	50	16.17
DFT-s-OFDM QPSK	2310	462000	10	50	0	15.12
DFT-s-OFDM 16QAM	2310	462000	10	25	12	15.09
DFT-s-OFDM 16QAM	2310	462000	10	1	1	15.20
DFT-s-OFDM 16QAM	2310	462000	10	1	50	15.32
DFT-s-OFDM 16QAM	2310	462000	10	50	0	14.14
DFT-s-OFDM 64QAM	2310	462000	10	25	12	13.74
DFT-s-OFDM 64QAM	2310	462000	10	1	1	13.68
DFT-s-OFDM 64QAM	2310	462000	10	1	50	13.83
DFT-s-OFDM 64QAM	2310	462000	10	50	0	13.76
DFT-s-OFDM 256QAM	2310	462000	10	25	12	11.61
DFT-s-OFDM 256QAM	2310	462000	10	1	1	11.23
DFT-s-OFDM 256QAM	2310	462000	10	1	50	11.32
DFT-s-OFDM 256QAM	2310	462000	10	50	0	11.51
CP-OFDM QPSK	2310	462000	10	26	13	14.64
CP-OFDM QPSK	2310	462000	10	1	1	14.54
CP-OFDM QPSK	2310	462000	10	1	50	14.69
CP-OFDM QPSK	2310	462000	10	52	0	13.04
CP-OFDM 16QAM	2310	462000	10	26	13	14.07
CP-OFDM 16QAM	2310	462000	10	1	1	14.18
CP-OFDM 16QAM	2310	462000	10	1	50	14.29
CP-OFDM 16QAM	2310	462000	10	52	0	13.08
CP-OFDM 64QAM	2310	462000	10	26	13	12.59
CP-OFDM 64QAM	2310	462000	10	1	1	12.19
CP-OFDM 64QAM	2310	462000	10	1	50	12.28
CP-OFDM 64QAM	2310	462000	10	52	0	12.55
CP-OFDM 256QAM	2310	462000	10	26	13	9.54
CP-OFDM 256QAM	2310	462000	10	1	1	9.27
CP-OFDM 256QAM	2310	462000	10	1	50	9.38
CP-OFDM 256QAM	2310	462000	10	52	0	9.63

2 Occupied Bandwidth

Modulation	Carrier frequency (MHz)	UL Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
CP-OFDM QPSK	2310	462000	10	52	0	9.290	Fig.1
CP-OFDM 16QAM	2310	462000	10	52	0	9.290	Fig.2
CP-OFDM 64QAM	2310	462000	10	52	0	9.290	Fig.3
CP-OFDM 256QAM	2310	462000	10	52	0	9.300	Fig.4

Test Plot:

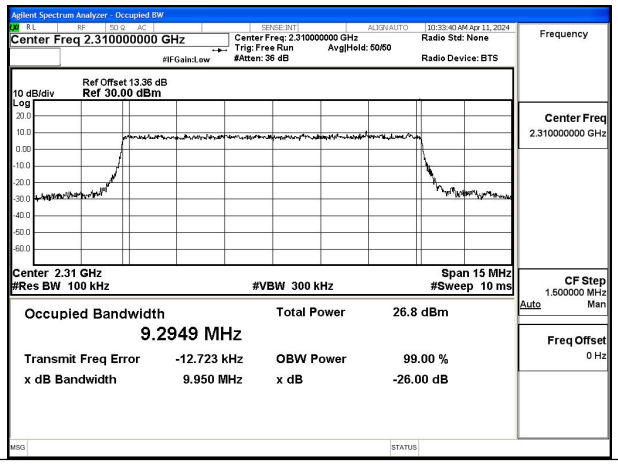

Fig.1

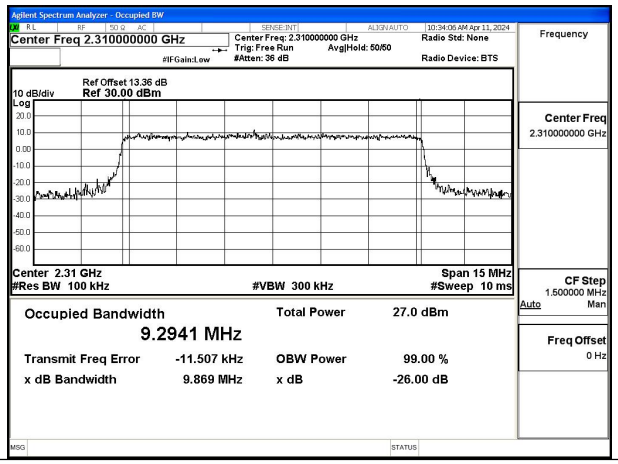

Fig.2

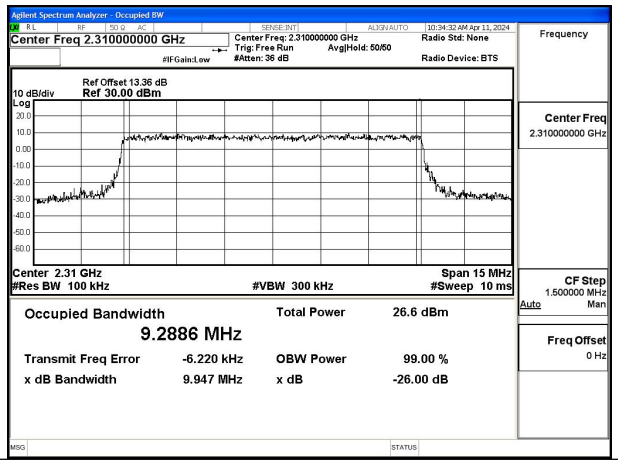

Fig.3

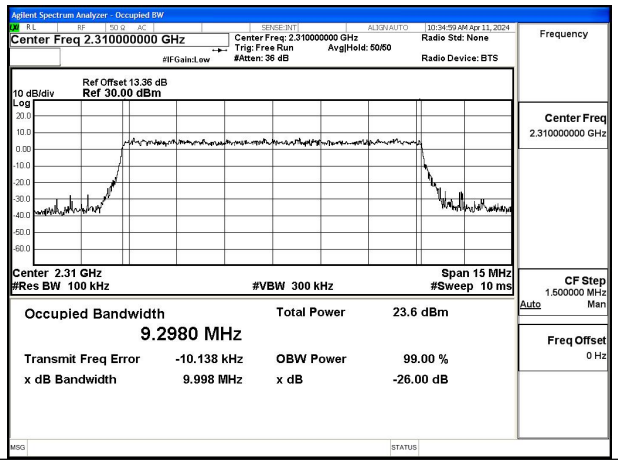

Fig.4

3 Emission Bandwidth

Modulation	Carrier frequency (MHz)	UL Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB Power (MHz)	
CP-OFDM QPSK	2310	462000	10	52	0	9.950	Fig.1
CP-OFDM 16QAM	2310	462000	10	52	0	9.870	Fig.2
CP-OFDM 64QAM	2310	462000	10	52	0	9.950	Fig.3
CP-OFDM 256QAM	2310	462000	10	52	0	10.000	Fig.4

Test Plot:

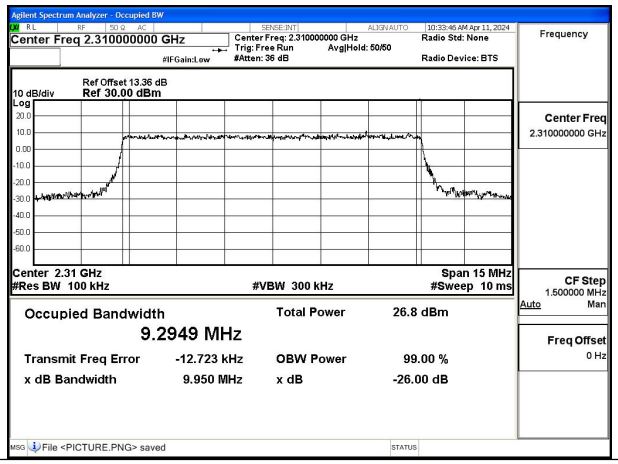

Fig.1

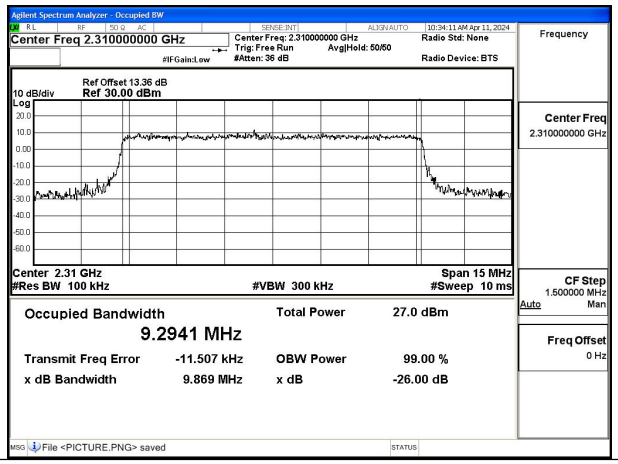

Fig.2

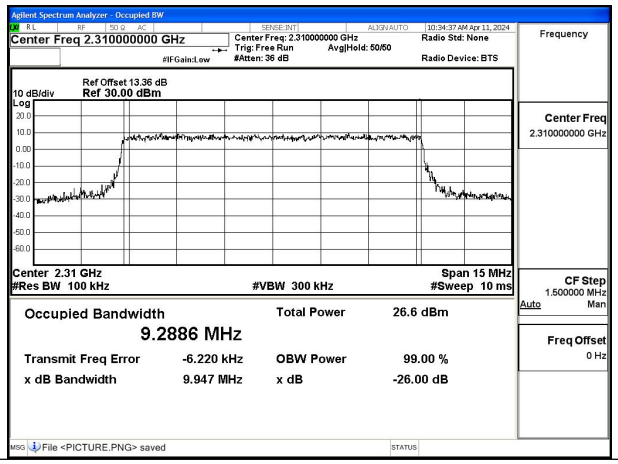

Fig.3

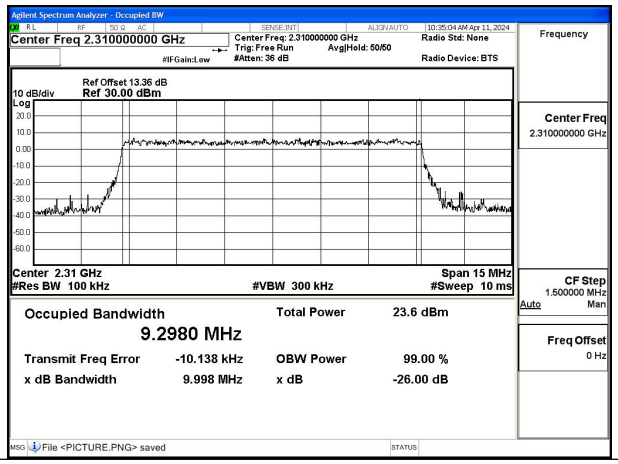

Fig.4

4 Peak-Average Ratio

Modulation	Carrier frequency (MHz)	UL Channel	BW (MHz)	RB Size	RB Offset	PAR Plot
DFT-s-OFDM PI/2 BPSK	2310	462000	10	50	0	Fig.1
DFT-s-OFDM QPSK	2310	462000	10	50	0	Fig.2
DFT-s-OFDM 16QAM	2310	462000	10	50	0	Fig.3
DFT-s-OFDM 64QAM	2310	462000	10	50	0	Fig.4
DFT-s-OFDM 256QAM	2310	462000	10	50	0	Fig.5

Test Plot:

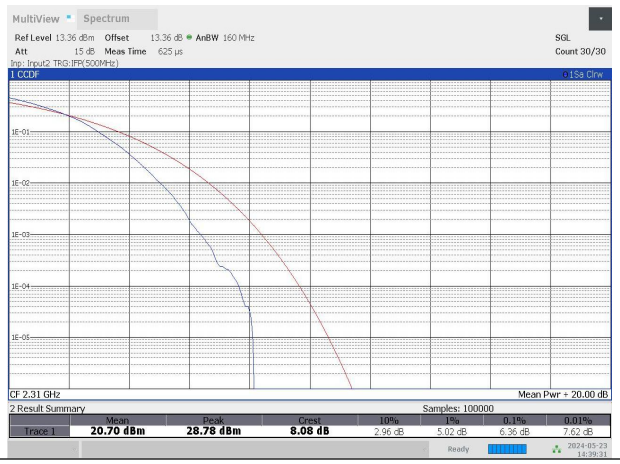

Fig.1

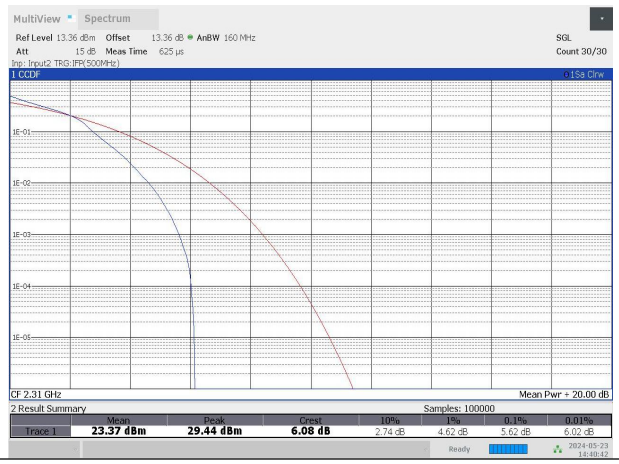

Fig.2

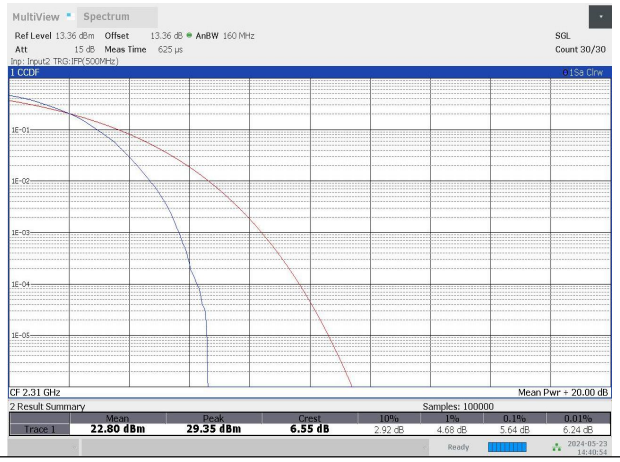

Fig.3

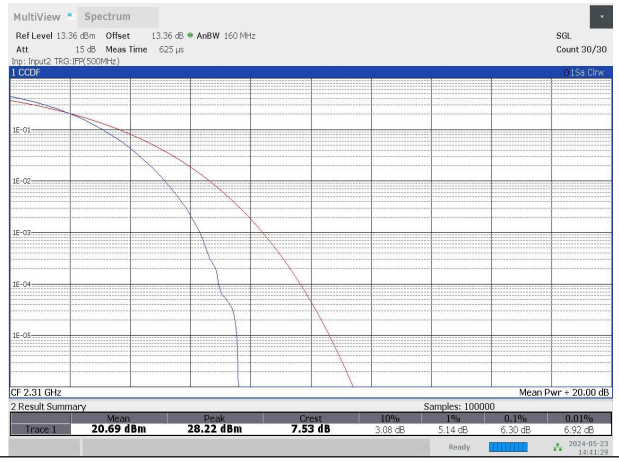

Fig.4

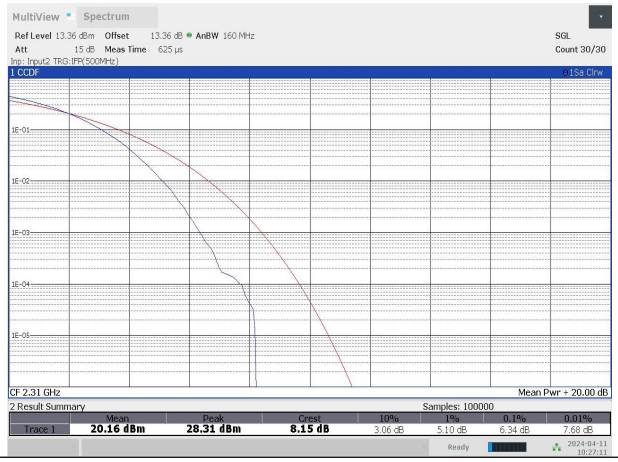
MultiView
Spectrum
Ref Level 13.36 dBm Offset 13.36 dB AnBW 160 MHz
Att 15 dB Meas Time 625 µs
SGL
Count 30/30
Inp: Input2 TRG:IFP(500MHz)
1 CCDF
1E-01
1E-02
1E-03
1E-04
1E-05
CF 2.31 GHz
Mean Pwr + 20.00 dB
2 Result Summary
Samples: 100000
Mean Peak Crest 10% 1% 0.1% 0.01%
Trace 1 20.16 dBm 28.31 dBm 8.15 dB 3.06 dB 5.10 dB 6.34 dB 7.68 dB
Ready

Fig.5

5 Spurious Emissions at antenna terminal

Modulation	Carrier frequency (MHz)	UL Channel	BW (MHz)	RB Size	RB Offset	Conducted Spurious Plot	
						30M~1G	1G~20G
CP-OFDM QPSK	2310	462000	10	52	0	Fig.1	Fig.2
CP-OFDM QPSK	2310	462000	10	1	0	Fig.3	Fig.4
CP-OFDM QPSK	2310	462000	10	1	51	Fig.5	Fig.6

Test Plot:

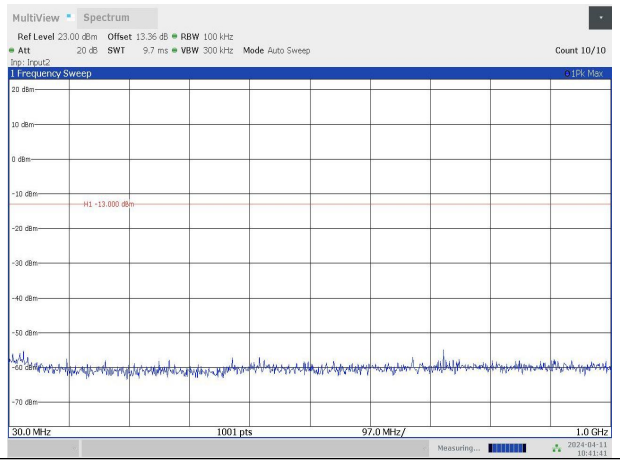

Fig.1

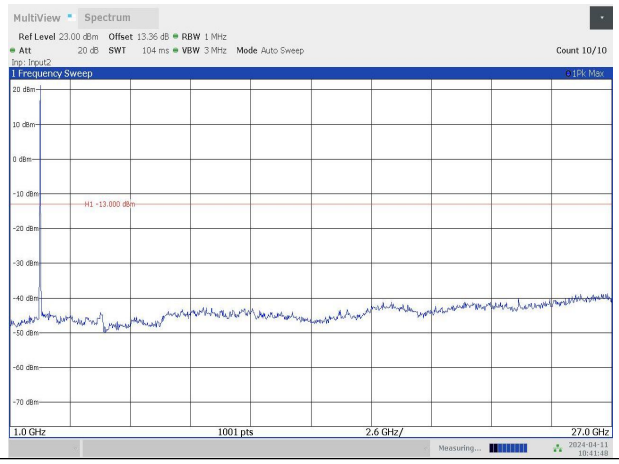

Fig.2

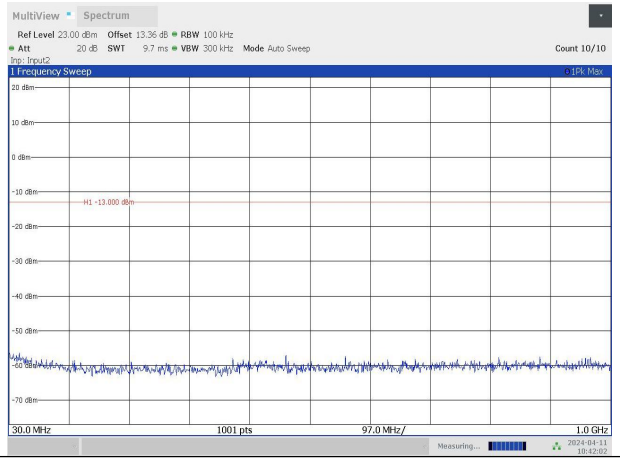

Fig.3

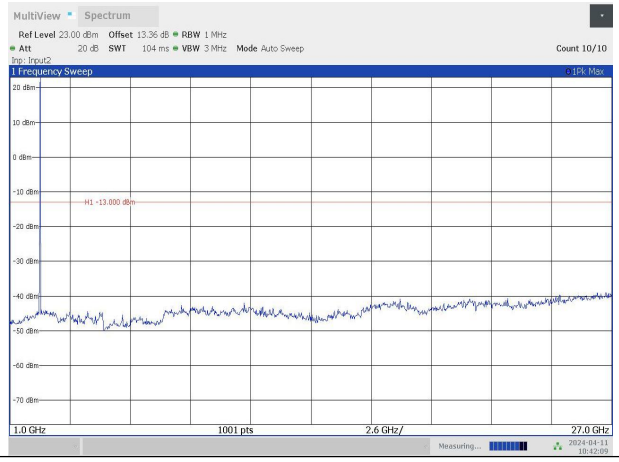

Fig.4

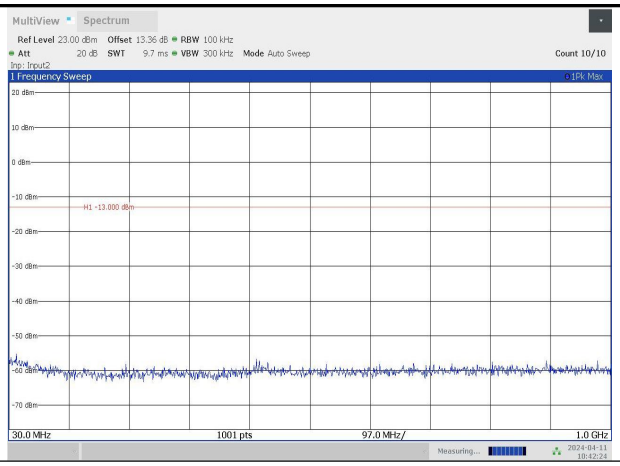
MultiView
Spectrum
Ref Level 23.00 dBm Offset 13.36 dB RBW 100 kHz
Att 20 dB SWT 9.7 ms VBW 300 kHz Mode Auto Sweep Count 10/10
Inp: Input2
1 Frequency Sweep
1Pk Max
H1 -13.000 dBm
30.0 MHz 1001 pts 97.0 MHz/ 1.0 GHz

Fig.5

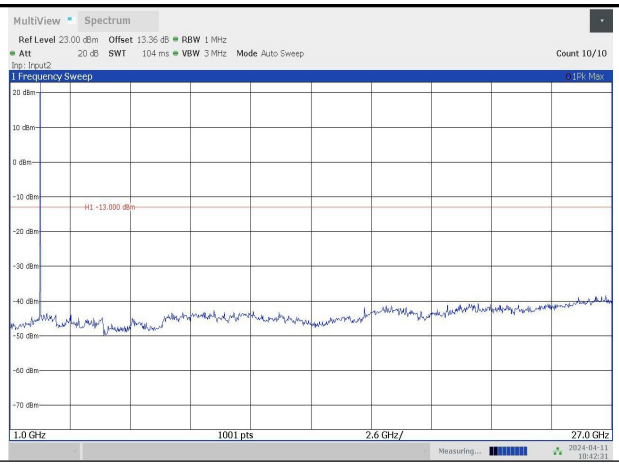
MultiView
Spectrum
Ref Level 23.00 dBm Offset 13.36 dB RBW 1 MHz
Att 20 dB SWT 104 ms VBW 3 MHz Mode Auto Sweep Count 10/10
Inp: Input2
1 Frequency Sweep
1Pk Max
H1 -13.000 dBm
1.0 GHz 1001 pts 2.6 GHz/ 27.0 GHz

Fig.6

6 Band Edges Compliance

Modulation	Carrier frequency (MHz)	UL Channel	BW (MHz)	RB Size	RB Offset	Band Edges Plot
DFT-s-OFDM PI/2 BPSK	2310	462000	10	25	12	Fig.1
DFT-s-OFDM PI/2 BPSK	2310	462000	10	1	1	Fig.2
DFT-s-OFDM PI/2 BPSK	2310	462000	10	25	12	Fig.3
DFT-s-OFDM PI/2 BPSK	2310	462000	10	1	50	Fig.4
DFT-s-OFDM QPSK	2310	462000	10	25	12	Fig.5
DFT-s-OFDM QPSK	2310	462000	10	1	1	Fig.6
DFT-s-OFDM QPSK	2310	462000	10	25	12	Fig.7
DFT-s-OFDM QPSK	2310	462000	10	1	50	Fig.8

Test Plot:

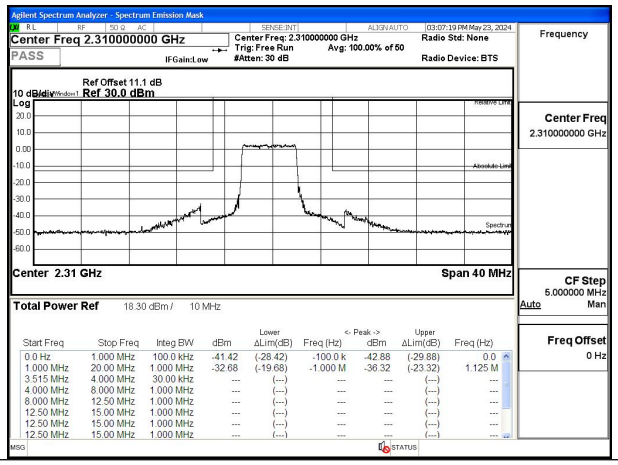

Fig.1

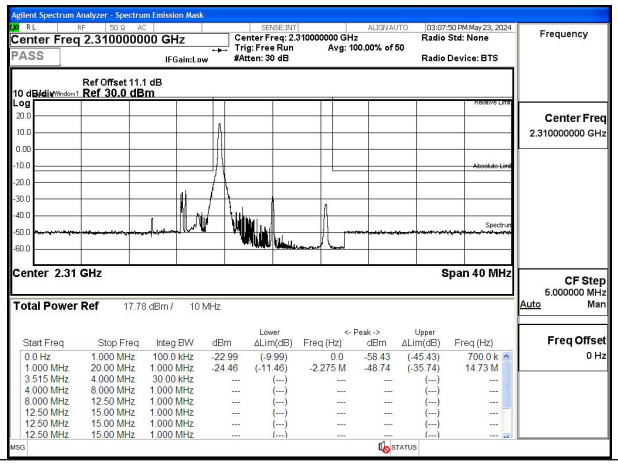

Fig.2

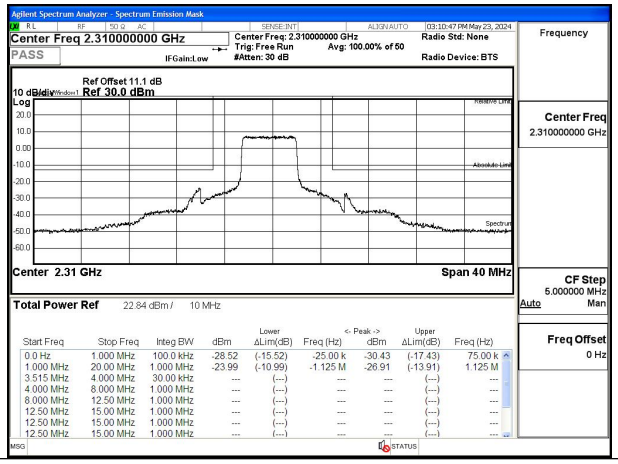

Fig.3

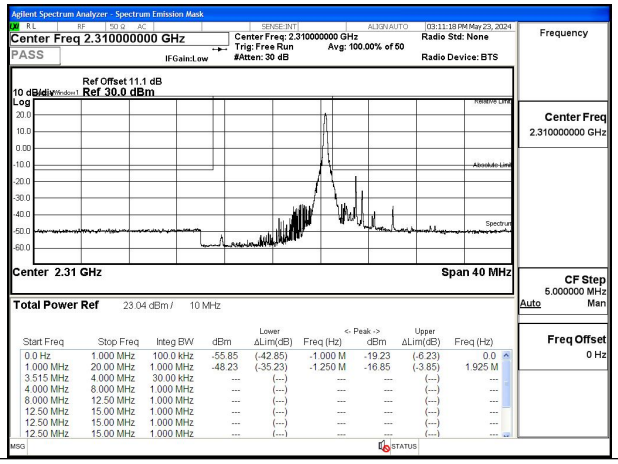

Fig.4

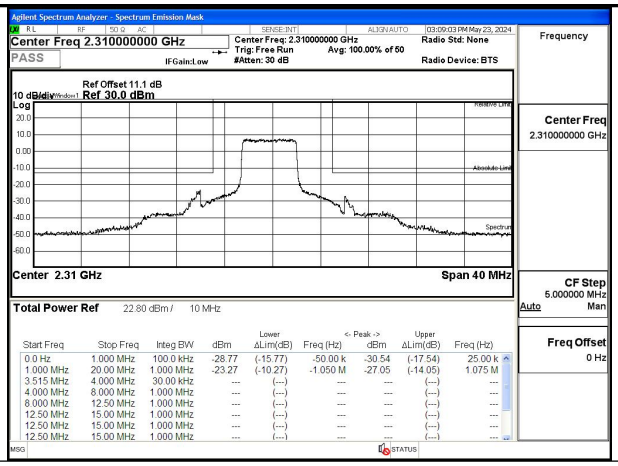

Fig.5

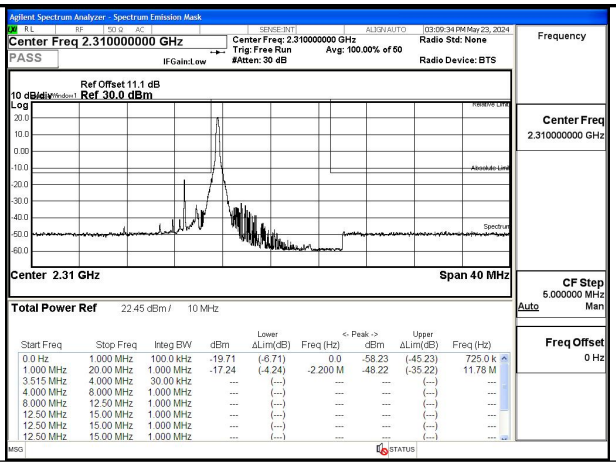

Fig.6

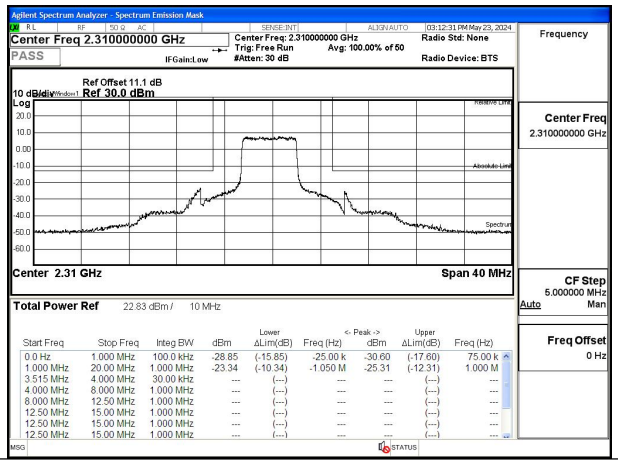

Fig.7

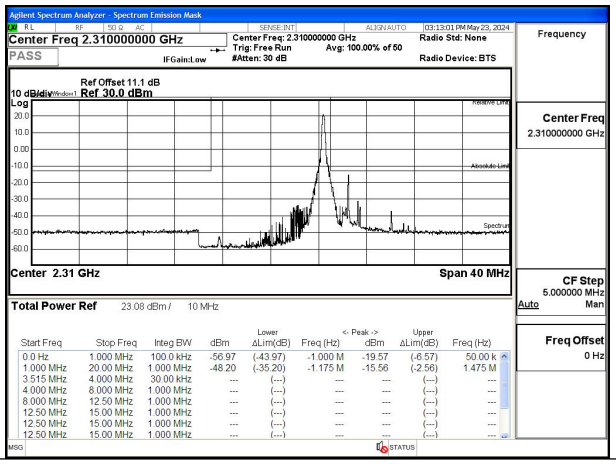

Fig.8

7 Frequency Stability

Modulation	Carrier frequency (MHz)	UL Channel	BW (MHz)	RB Size	RB Offset	Temperature (°C)	Voltage	Test Result (ppm)
DFT-s-OFDM QPSK	2310	462000	10	50	0	-50	NV	-0.0013
DFT-s-OFDM QPSK	2310	462000	10	50	0	-20	NV	-0.0017
DFT-s-OFDM QPSK	2310	462000	10	50	0	-10	NV	0.0013
DFT-s-OFDM QPSK	2310	462000	10	50	0	0	NV	-0.0017
DFT-s-OFDM QPSK	2310	462000	10	50	0	10	NV	0
DFT-s-OFDM QPSK	2310	462000	10	50	0	20	NV	-0.0013
DFT-s-OFDM QPSK	2310	462000	10	50	0	30	NV	-0.0017
DFT-s-OFDM QPSK	2310	462000	10	50	0	40	NV	-0.0009
DFT-s-OFDM QPSK	2310	462000	10	50	0	50	NV	-0.0022
DFT-s-OFDM QPSK	2310	462000	10	50	0	55	NV	-0.0009
DFT-s-OFDM QPSK	2310	462000	10	50	0	20	LV	-0.0004
DFT-s-OFDM QPSK	2310	462000	10	50	0	20	HV	-0.0013

8 Effective Radiated Power and Effective Isotropic Radiated Power

Modulation	Carrier frequency (MHz)	UL Channel	BW (MHz)	RB Size	RB Offset	Conducted power (dBm)	ERP/ EIRP (dBm)	ERP/ EIRP (W)
DFT-s-OFDM PI/2 BPSK	2310	462000	10	25	12	16.06	20.56	0.114
DFT-s-OFDM PI/2 BPSK	2310	462000	10	1	1	16.09	20.59	0.115
DFT-s-OFDM PI/2 BPSK	2310	462000	10	1	50	16.20	20.70	0.117
DFT-s-OFDM PI/2 BPSK	2310	462000	10	50	0	15.10	19.60	0.091
DFT-s-OFDM QPSK	2310	462000	10	25	12	16.07	20.57	0.114
DFT-s-OFDM QPSK	2310	462000	10	1	1	16.06	20.56	0.114
DFT-s-OFDM QPSK	2310	462000	10	1	50	16.17	20.67	0.117
DFT-s-OFDM QPSK	2310	462000	10	50	0	15.12	19.62	0.092
DFT-s-OFDM 16QAM	2310	462000	10	25	12	15.09	19.59	0.091
DFT-s-OFDM 16QAM	2310	462000	10	1	1	15.20	19.70	0.093
DFT-s-OFDM 16QAM	2310	462000	10	1	50	15.32	19.82	0.096
DFT-s-OFDM 16QAM	2310	462000	10	50	0	14.14	18.64	0.073
DFT-s-OFDM 64QAM	2310	462000	10	25	12	13.74	18.24	0.067
DFT-s-OFDM 64QAM	2310	462000	10	1	1	13.68	18.18	0.066
DFT-s-OFDM 64QAM	2310	462000	10	1	50	13.83	18.33	0.068
DFT-s-OFDM 64QAM	2310	462000	10	50	0	13.76	18.26	0.067
DFT-s-OFDM 256QAM	2310	462000	10	25	12	11.61	16.11	0.041
DFT-s-OFDM 256QAM	2310	462000	10	1	1	11.23	15.73	0.037
DFT-s-OFDM 256QAM	2310	462000	10	1	50	11.32	15.82	0.038
DFT-s-OFDM 256QAM	2310	462000	10	50	0	11.51	16.01	0.040
CP-OFDM QPSK	2310	462000	10	26	13	14.64	19.14	0.082
CP-OFDM QPSK	2310	462000	10	1	1	14.54	19.04	0.080
CP-OFDM QPSK	2310	462000	10	1	50	14.69	19.19	0.083
CP-OFDM QPSK	2310	462000	10	52	0	13.04	17.54	0.057
CP-OFDM 16QAM	2310	462000	10	26	13	14.07	18.57	0.072
CP-OFDM 16QAM	2310	462000	10	1	1	14.18	18.68	0.074
CP-OFDM 16QAM	2310	462000	10	1	50	14.29	18.79	0.076
CP-OFDM 16QAM	2310	462000	10	52	0	13.08	17.58	0.057
CP-OFDM 64QAM	2310	462000	10	26	13	12.59	17.09	0.051
CP-OFDM 64QAM	2310	462000	10	1	1	12.19	16.69	0.047
CP-OFDM 64QAM	2310	462000	10	1	50	12.28	16.78	0.048
CP-OFDM 64QAM	2310	462000	10	52	0	12.55	17.05	0.051
CP-OFDM 256QAM	2310	462000	10	26	13	9.54	14.04	0.025
CP-OFDM 256QAM	2310	462000	10	1	1	9.27	13.77	0.024
CP-OFDM 256QAM	2310	462000	10	1	50	9.38	13.88	0.024
CP-OFDM 256QAM	2310	462000	10	52	0	9.63	14.13	0.026