

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	23.28
QPSK	779.5	23205	5	1	12	23.52
QPSK	779.5	23205	5	1	24	23.25
QPSK	779.5	23205	5	12	0	22.29
QPSK	779.5	23205	5	12	7	22.53
QPSK	779.5	23205	5	12	13	22.42
QPSK	779.5	23205	5	25	0	22.48
QPSK	782	23230	5	1	0	23.68
QPSK	782	23230	5	1	12	23.74
QPSK	782	23230	5	1	24	23.55
QPSK	782	23230	5	12	0	22.52
QPSK	782	23230	5	12	7	22.49
QPSK	782	23230	5	12	13	22.33
QPSK	782	23230	5	25	0	22.39
QPSK	784.5	23255	5	1	0	23.73
QPSK	784.5	23255	5	1	12	23.75
QPSK	784.5	23255	5	1	24	23.76
QPSK	784.5	23255	5	12	0	22.54
QPSK	784.5	23255	5	12	7	22.43
QPSK	784.5	23255	5	12	13	22.56
QPSK	784.5	23255	5	25	0	22.41

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	779.5	23205	5	1	0	22.63
16QAM	779.5	23205	5	1	12	22.44
16QAM	779.5	23205	5	1	24	22.37
16QAM	779.5	23205	5	12	0	21.46
16QAM	779.5	23205	5	12	7	21.35
16QAM	779.5	23205	5	12	13	21.37
16QAM	779.5	23205	5	25	0	21.66
16QAM	782	23230	5	1	0	23.07
16QAM	782	23230	5	1	12	22.90
16QAM	782	23230	5	1	24	22.84
16QAM	782	23230	5	12	0	21.63
16QAM	782	23230	5	12	7	21.62
16QAM	782	23230	5	12	13	21.46
16QAM	782	23230	5	25	0	21.51
16QAM	784.5	23255	5	1	0	22.60
16QAM	784.5	23255	5	1	12	22.62
16QAM	784.5	23255	5	1	24	22.75
16QAM	784.5	23255	5	12	0	21.40
16QAM	784.5	23255	5	12	7	21.46
16QAM	784.5	23255	5	12	13	21.32
16QAM	784.5	23255	5	25	0	21.45
64QAM	779.5	23205	5	1	0	21.26
64QAM	779.5	23205	5	1	12	21.48
64QAM	779.5	23205	5	1	24	21.05
64QAM	779.5	23205	5	12	0	20.27
64QAM	779.5	23205	5	12	7	20.81
64QAM	779.5	23205	5	12	13	20.47
64QAM	779.5	23205	5	25	0	20.34
64QAM	782	23230	5	1	0	22.02
64QAM	782	23230	5	1	12	21.49
64QAM	782	23230	5	1	24	21.87
64QAM	782	23230	5	12	0	20.53
64QAM	782	23230	5	12	7	20.73
64QAM	782	23230	5	12	13	20.30
64QAM	782	23230	5	25	0	20.69
64QAM	784.5	23255	5	1	0	22.05
64QAM	784.5	23255	5	1	12	22.15
64QAM	784.5	23255	5	1	24	21.77
64QAM	784.5	23255	5	12	0	20.37
64QAM	784.5	23255	5	12	7	20.39
64QAM	784.5	23255	5	12	13	20.31
64QAM	784.5	23255	5	25	0	20.44

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	782	23230	10	1	0	23.65
QPSK	782	23230	10	1	25	23.85
QPSK	782	23230	10	1	49	23.58
QPSK	782	23230	10	25	0	22.52
QPSK	782	23230	10	25	12	22.46
QPSK	782	23230	10	25	25	22.66
QPSK	782	23230	10	50	0	22.50
QPSK	782	23230	10	1	0	23.59
QPSK	782	23230	10	1	25	23.82
QPSK	782	23230	10	1	49	23.81
QPSK	782	23230	10	25	0	22.47
QPSK	782	23230	10	25	12	22.40
QPSK	782	23230	10	25	25	22.20
QPSK	782	23230	10	50	0	22.48
QPSK	782	23230	10	1	0	23.67
QPSK	782	23230	10	1	25	23.55
QPSK	782	23230	10	1	49	23.73
QPSK	782	23230	10	25	0	22.48
QPSK	782	23230	10	25	12	22.40
QPSK	782	23230	10	25	25	22.28
QPSK	782	23230	10	50	0	22.47

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	782	23230	10	1	0	22.58
16QAM	782	23230	10	1	25	23.00
16QAM	782	23230	10	1	49	22.22
16QAM	782	23230	10	25	0	21.59
16QAM	782	23230	10	25	12	21.55
16QAM	782	23230	10	25	25	21.57
16QAM	782	23230	10	50	0	21.48
16QAM	782	23230	10	1	0	22.57
16QAM	782	23230	10	1	25	22.93
16QAM	782	23230	10	1	49	22.73
16QAM	782	23230	10	25	0	21.62
16QAM	782	23230	10	25	12	21.63
16QAM	782	23230	10	25	25	21.48
16QAM	782	23230	10	50	0	21.33
16QAM	782	23230	10	1	0	22.63
16QAM	782	23230	10	1	25	22.43
16QAM	782	23230	10	1	49	22.51
16QAM	782	23230	10	25	0	21.58
16QAM	782	23230	10	25	12	21.64
16QAM	782	23230	10	25	25	21.54
16QAM	782	23230	10	50	0	21.37
64QAM	782	23230	10	1	0	21.77
64QAM	782	23230	10	1	25	21.72
64QAM	782	23230	10	1	49	21.64
64QAM	782	23230	10	25	0	20.43
64QAM	782	23230	10	25	12	21.00
64QAM	782	23230	10	25	25	20.47
64QAM	782	23230	10	50	0	20.74
64QAM	782	23230	10	1	0	21.90
64QAM	782	23230	10	1	25	21.17
64QAM	782	23230	10	1	49	21.70
64QAM	782	23230	10	25	0	20.46
64QAM	782	23230	10	25	12	20.69
64QAM	782	23230	10	25	25	20.43
64QAM	782	23230	10	50	0	21.19
64QAM	782	23230	10	1	0	21.56
64QAM	782	23230	10	1	25	21.84
64QAM	782	23230	10	1	49	21.96
64QAM	782	23230	10	25	0	20.58
64QAM	782	23230	10	25	12	20.62
64QAM	782	23230	10	25	25	20.65
64QAM	782	23230	10	50	0	21.22

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
13	QPSK	779.5	23205	5	25	0	4.440	Fig.1
13	QPSK	782	23230	5	25	0	4.460	Fig.2
13	QPSK	784.5	23255	5	25	0	4.450	Fig.3
13	QPSK	782	23230	10	50	0	8.890	Fig.4
13	QPSK	782	23230	10	50	0	8.910	Fig.5
13	QPSK	782	23230	10	50	0	8.900	Fig.6

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
13	16QAM	779.5	23205	5	25	0	4.450	Fig.7
13	16QAM	782	23230	5	25	0	4.440	Fig.8
13	16QAM	784.5	23255	5	25	0	4.470	Fig.9
13	16QAM	782	23230	10	50	0	8.890	Fig.10
13	16QAM	782	23230	10	50	0	8.900	Fig.11
13	16QAM	782	23230	10	50	0	8.900	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
13	64QAM	779.5	23205	5	25	0	4.430	Fig.13
13	64QAM	782	23230	5	25	0	4.450	Fig.14
13	64QAM	784.5	23255	5	25	0	4.450	Fig.15
13	64QAM	782	23230	10	50	0	8.900	Fig.16
13	64QAM	782	23230	10	50	0	8.900	Fig.17
13	64QAM	782	23230	10	50	0	8.900	Fig.18

Test Mode: QPSK

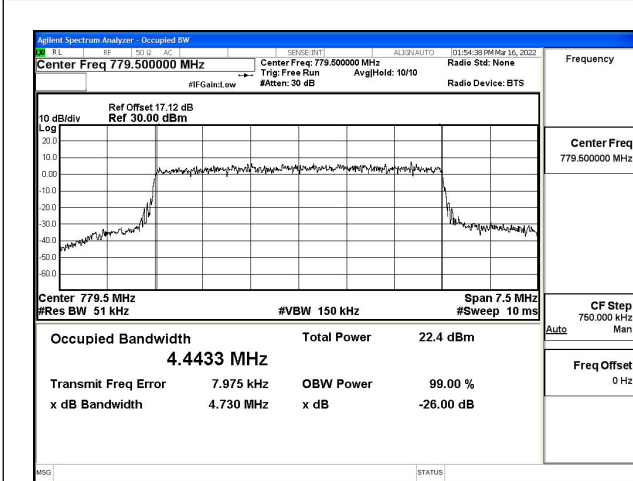


Fig.1

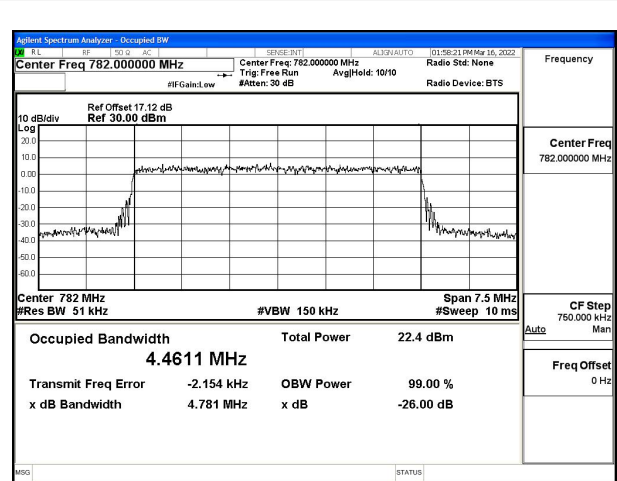


Fig.2

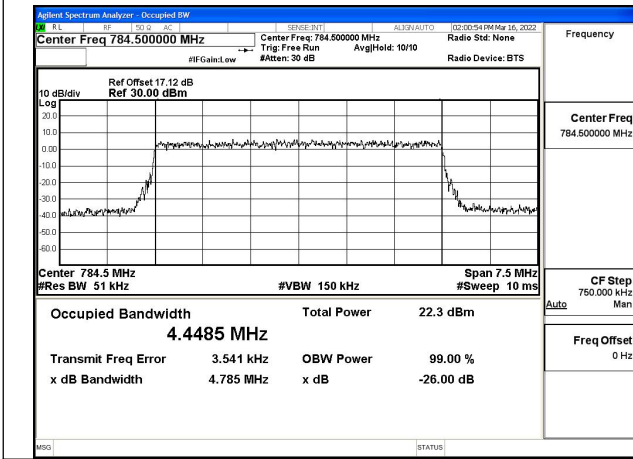


Fig.3

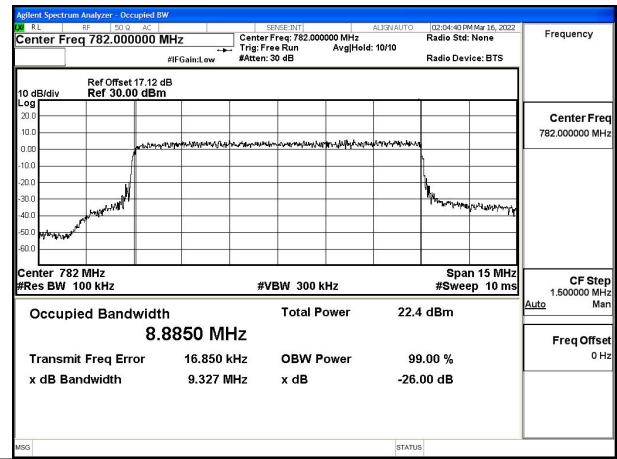


Fig.4

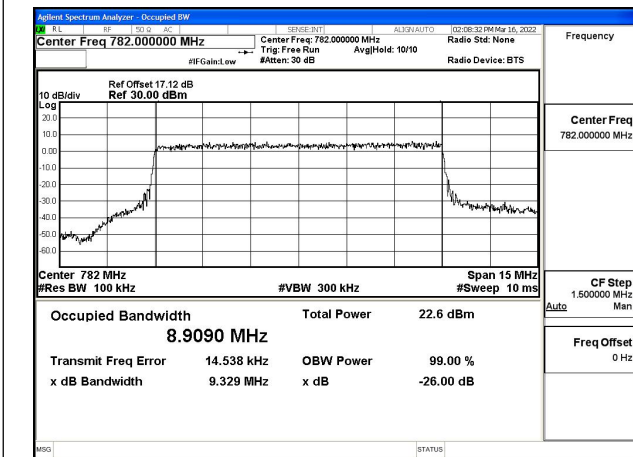


Fig.5

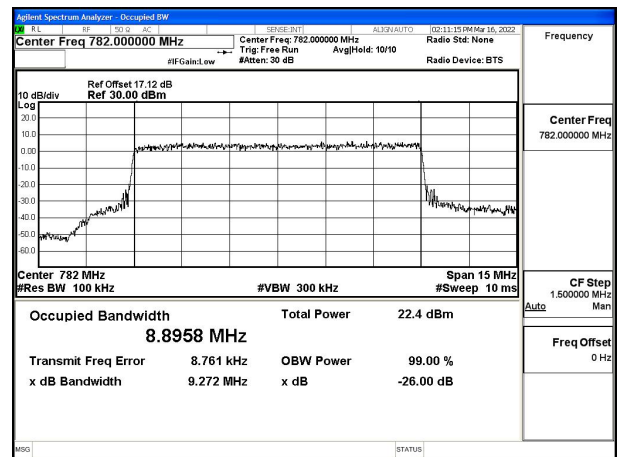


Fig.6

Test Mode: 16QAM

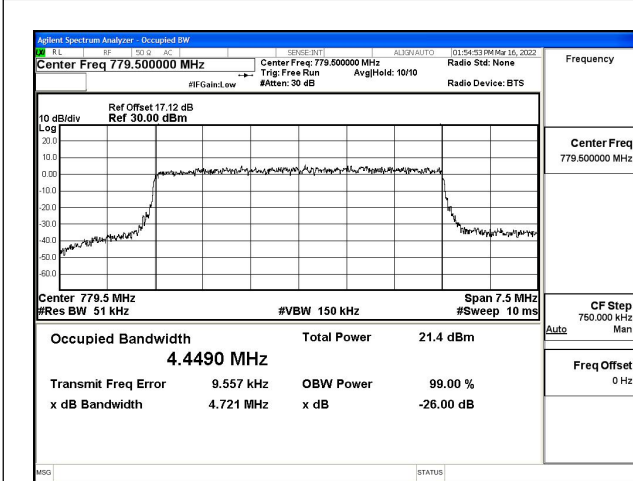


Fig.7

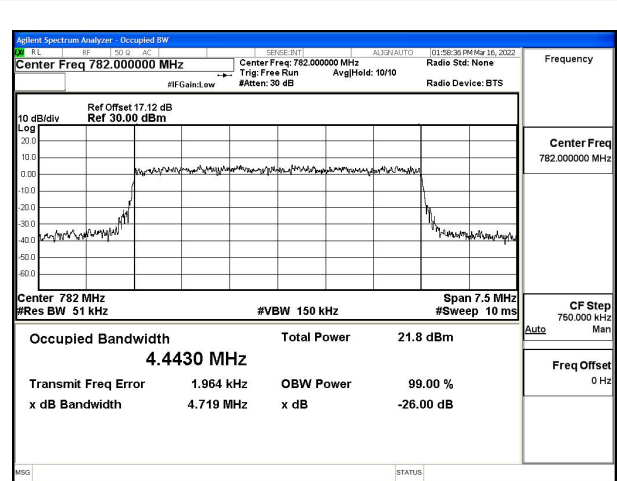


Fig.8

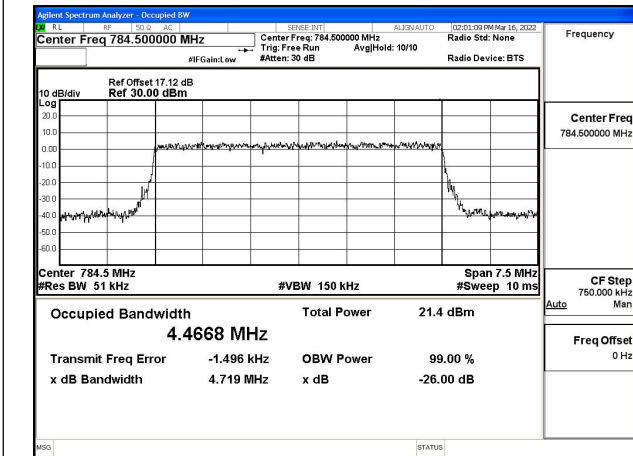


Fig.9

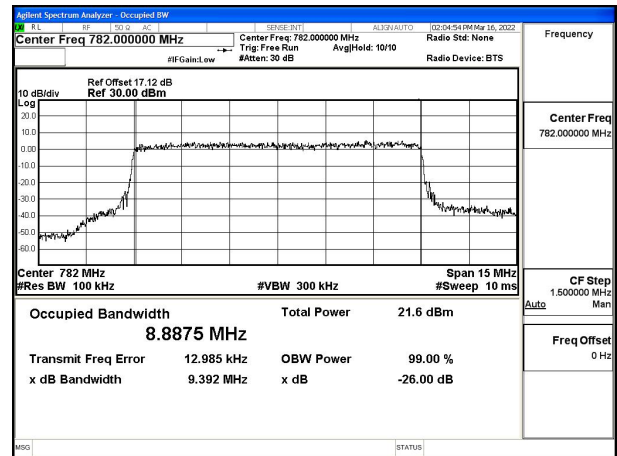


Fig.10

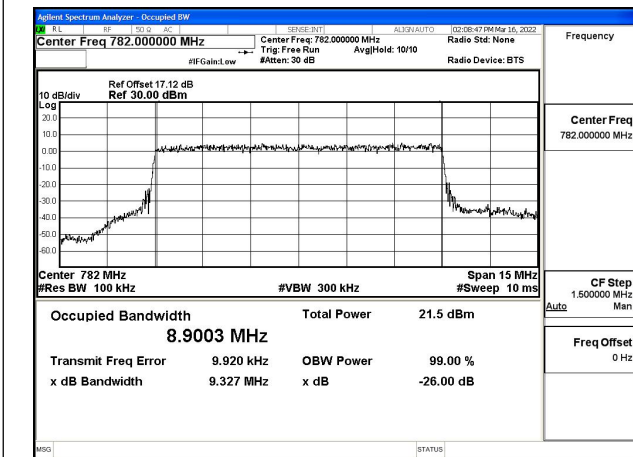


Fig.11

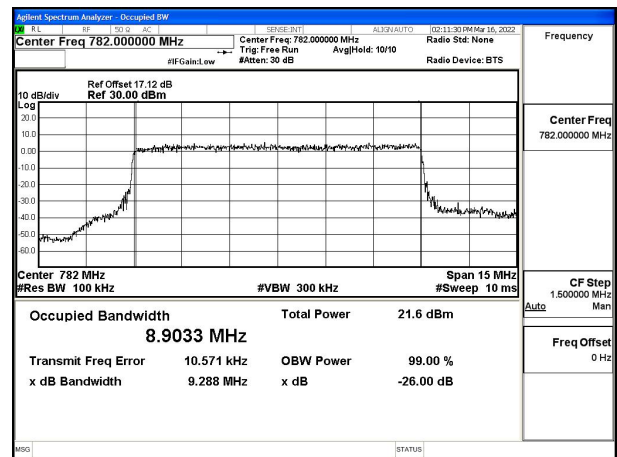


Fig.12

Test Mode: 64QAM

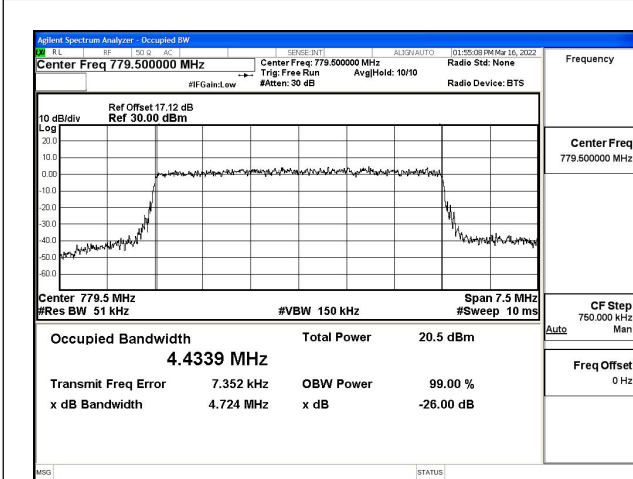


Fig.13

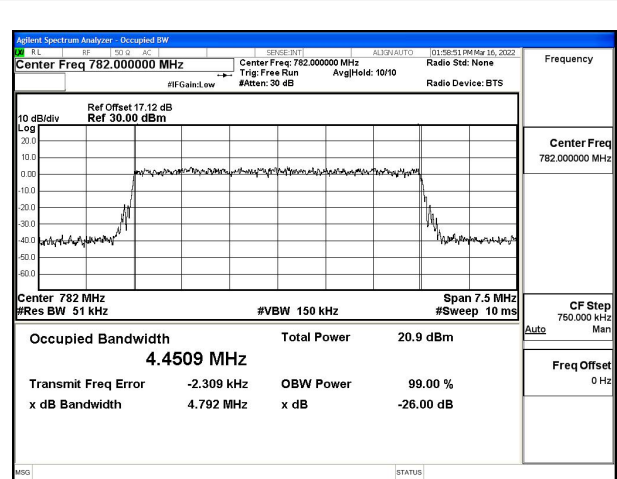


Fig.14

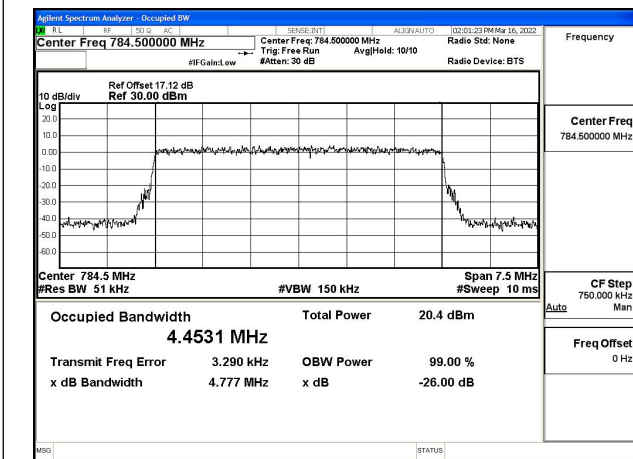


Fig.15

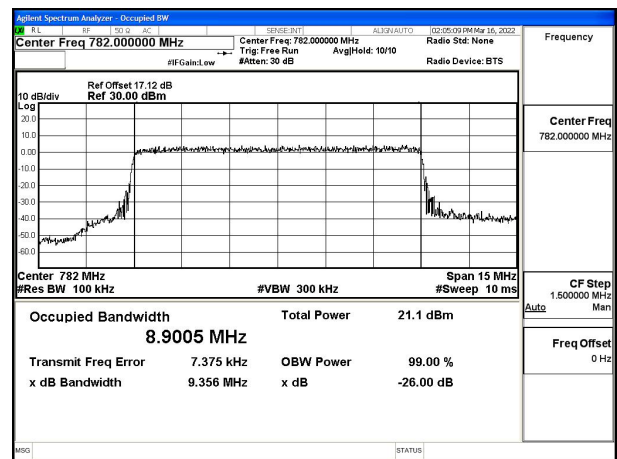


Fig.16

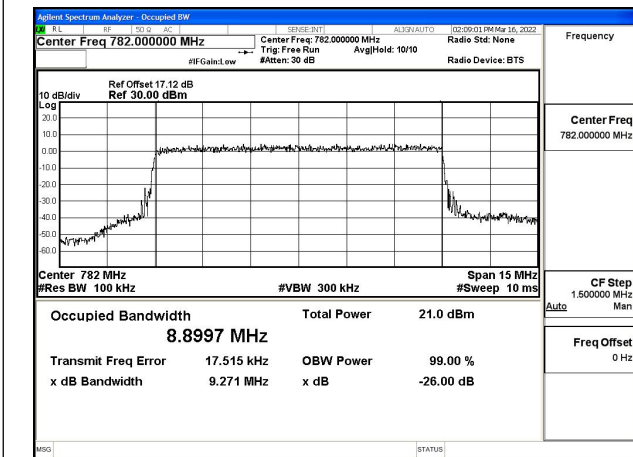


Fig.17

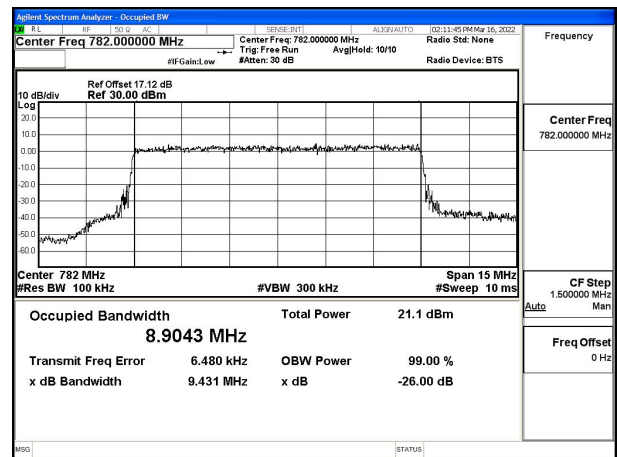


Fig.18

3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
13	QPSK	779.5	23205	5	25	0	4.730	Fig.1
13	QPSK	782	23230	5	25	0	4.780	Fig.2
13	QPSK	784.5	23255	5	25	0	4.790	Fig.3
13	QPSK	782	23230	10	50	0	9.330	Fig.4
13	QPSK	782	23230	10	50	0	9.330	Fig.5
13	QPSK	782	23230	10	50	0	9.270	Fig.6

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
13	16QAM	779.5	23205	5	25	0	4.720	Fig.7
13	16QAM	782	23230	5	25	0	4.720	Fig.8
13	16QAM	784.5	23255	5	25	0	4.720	Fig.9
13	16QAM	782	23230	10	50	0	9.390	Fig.10
13	16QAM	782	23230	10	50	0	9.330	Fig.11
13	16QAM	782	23230	10	50	0	9.290	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
13	64QAM	779.5	23205	5	25	0	4.720	Fig.13
13	64QAM	782	23230	5	25	0	4.790	Fig.14
13	64QAM	784.5	23255	5	25	0	4.780	Fig.15
13	64QAM	782	23230	10	50	0	9.360	Fig.16
13	64QAM	782	23230	10	50	0	9.270	Fig.17
13	64QAM	782	23230	10	50	0	9.430	Fig.18

Test Mode: QPSK

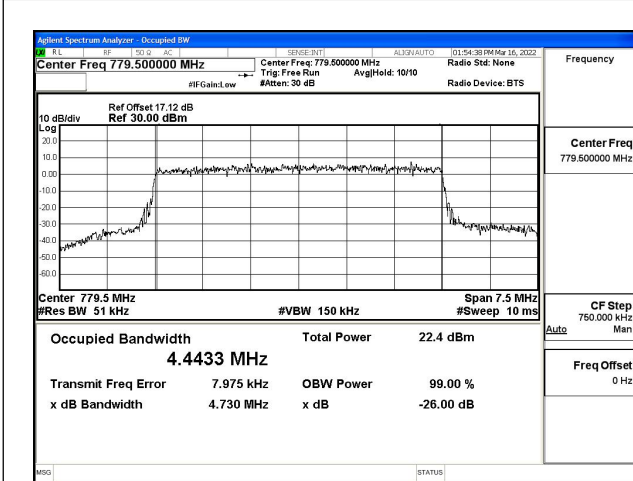


Fig.1

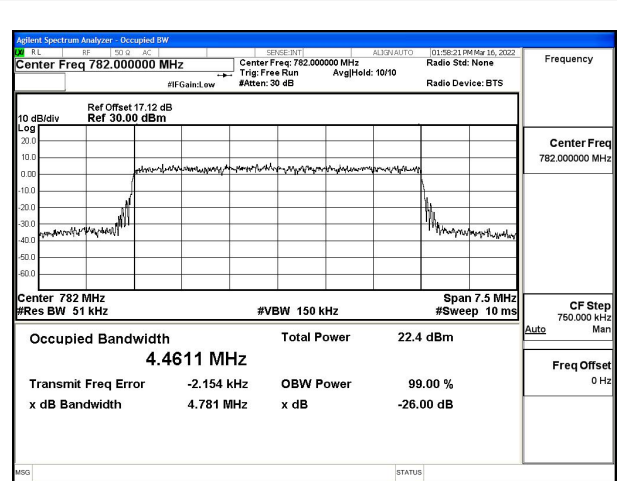


Fig.2

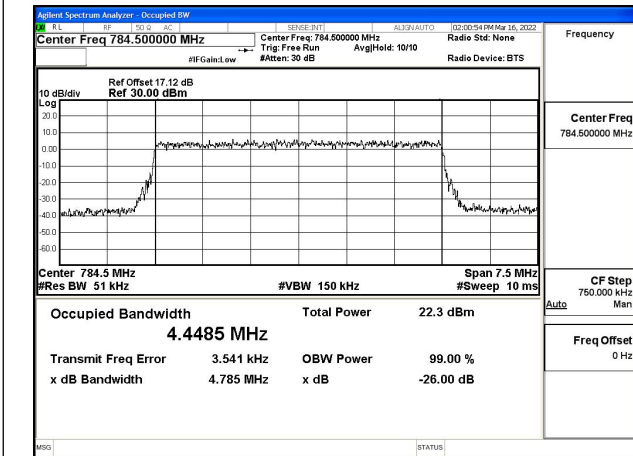


Fig.3

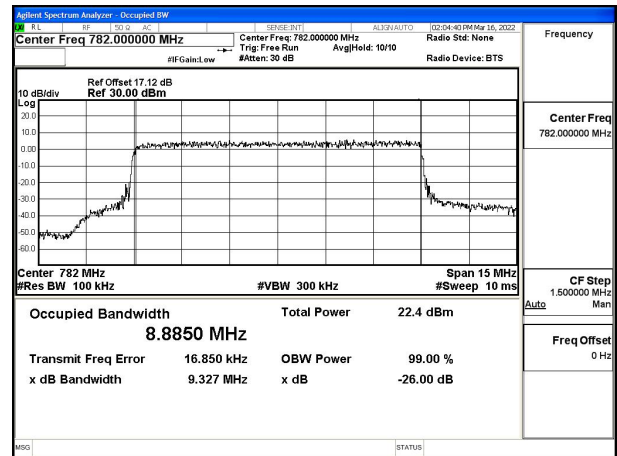


Fig.4

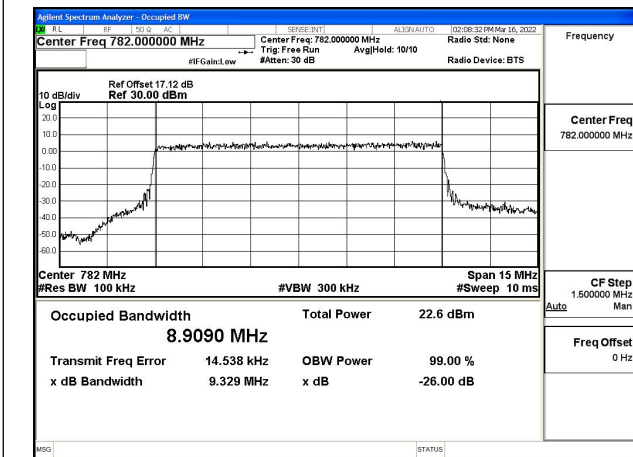


Fig.5

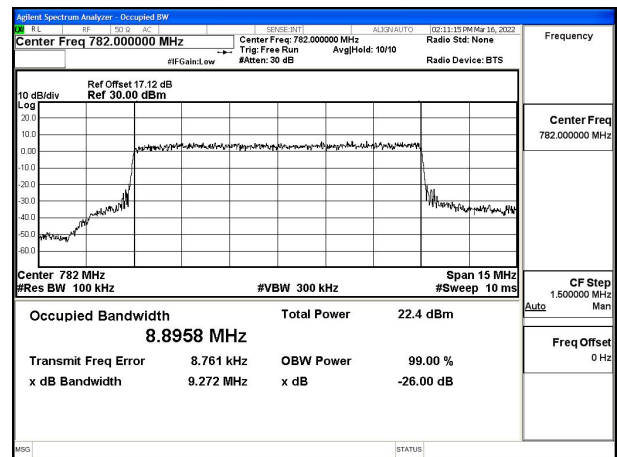


Fig.6

Test Mode: 16QAM

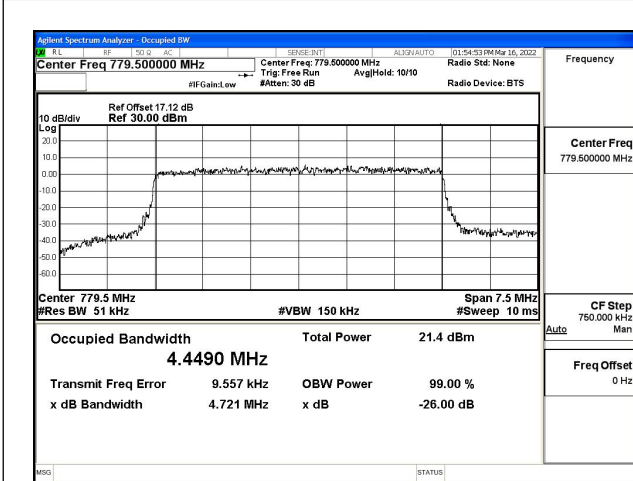


Fig.7

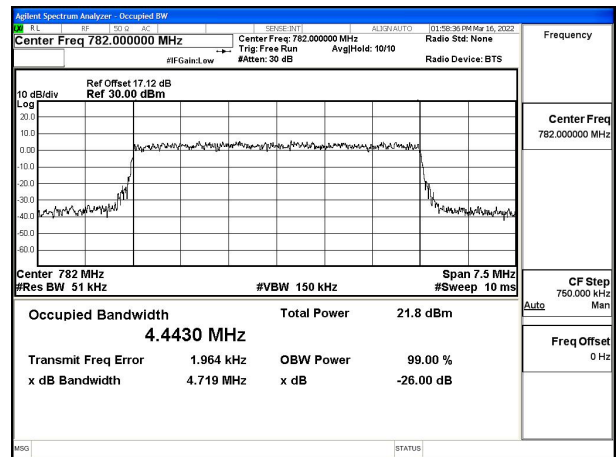


Fig.8

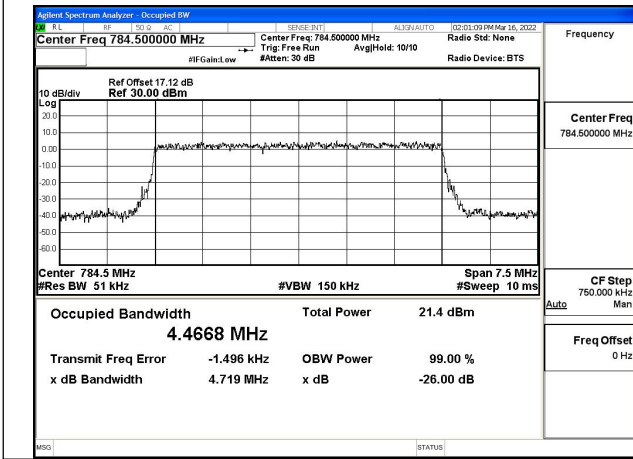


Fig.9

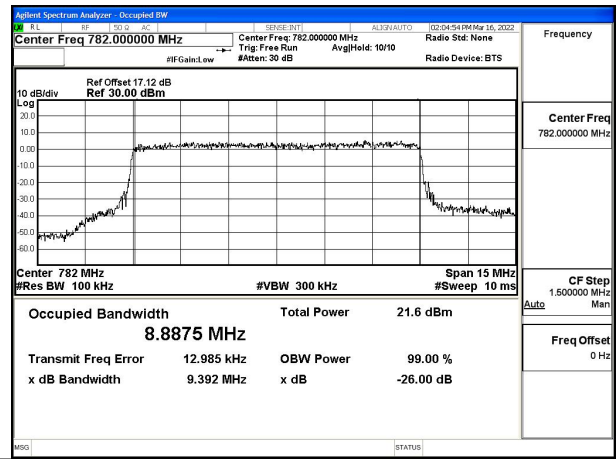


Fig.10

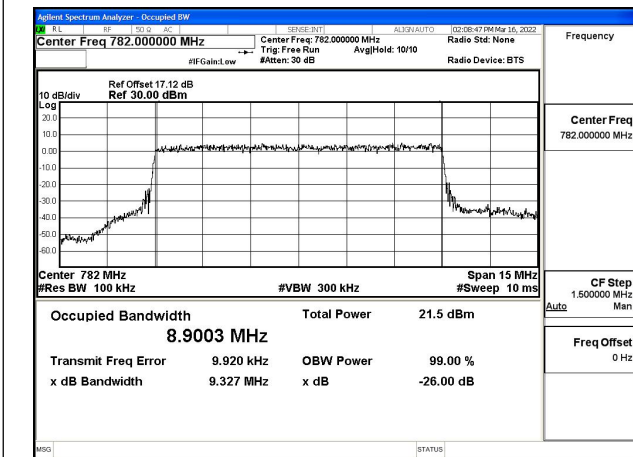


Fig.11

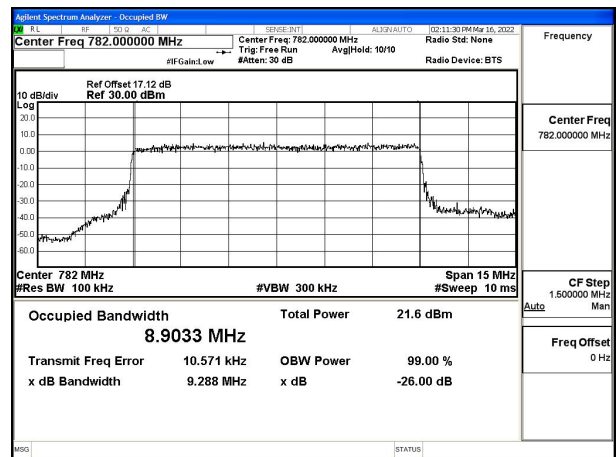


Fig.12

Test Mode: 64QAM

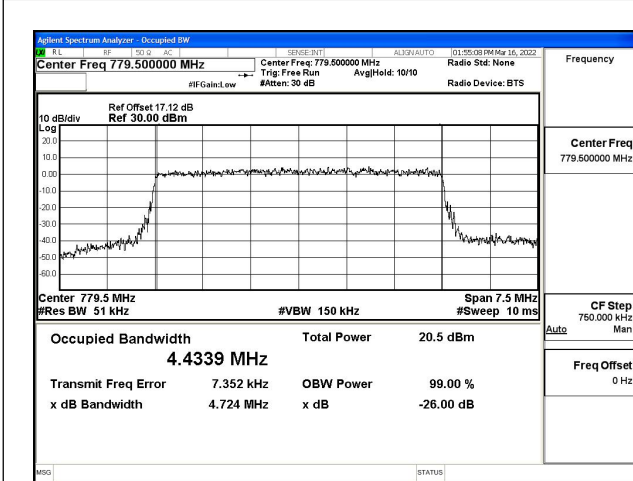


Fig.13

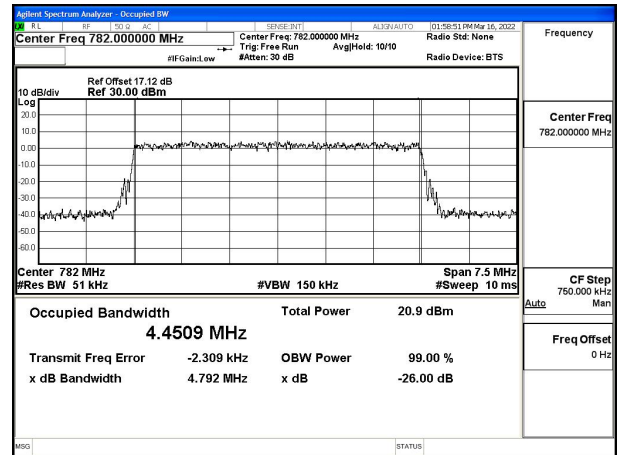


Fig.14

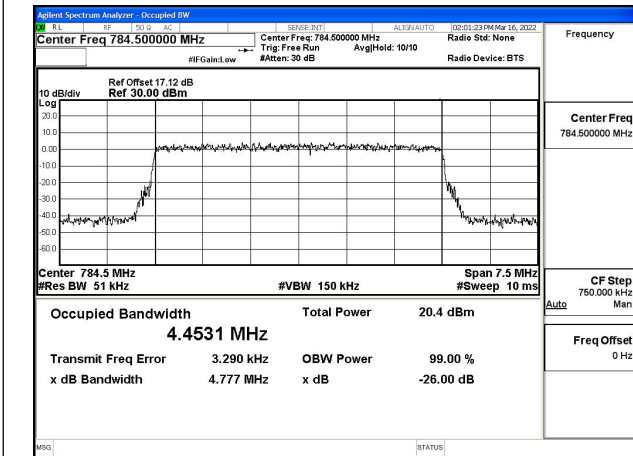


Fig.15

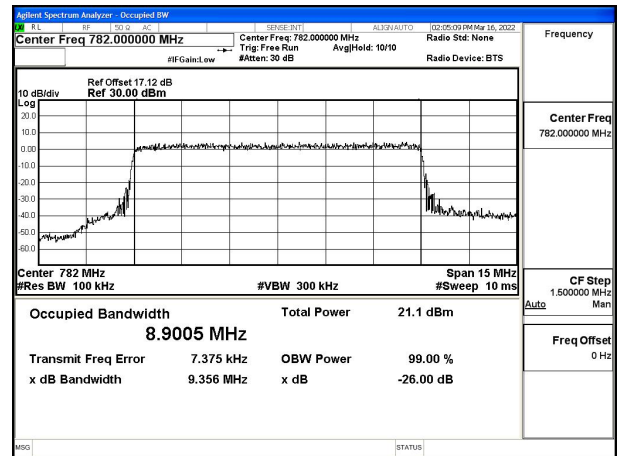


Fig.16

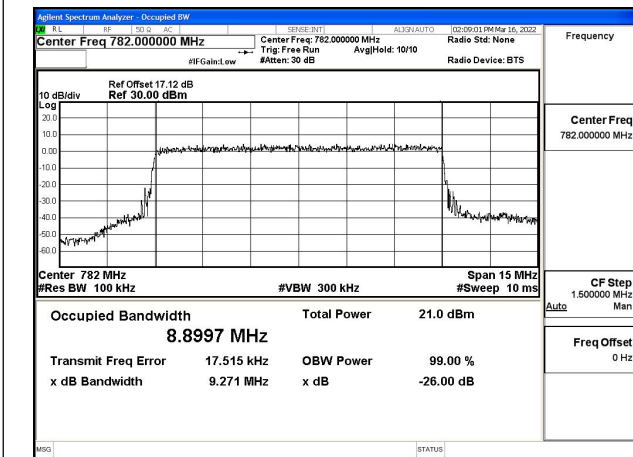


Fig.17

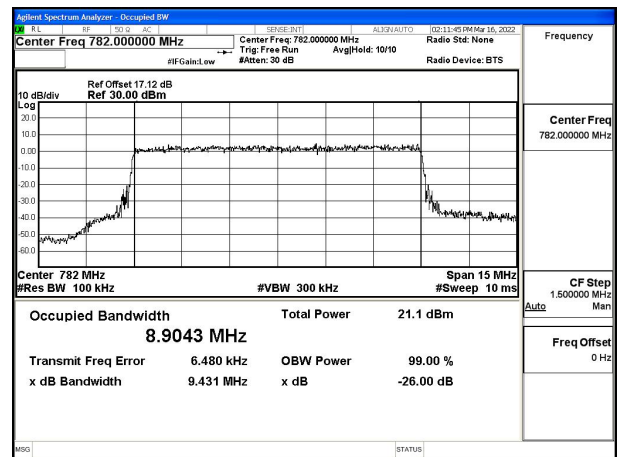


Fig.18

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
13	779.5	23205	5	1	24	Fig.1	Fig.2	Fig.3
13	779.5	23205	5	25	0	Fig.4	Fig.5	Fig.6
13	782	23230	5	1	24	Fig.7	Fig.8	Fig.9
13	782	23230	5	25	0	Fig.10	Fig.11	Fig.12
13	784.5	23255	5	1	24	Fig.13	Fig.14	Fig.15
13	784.5	23255	5	25	0	Fig.16	Fig.17	Fig.18
13	782	23230	10	1	49	Fig.19	Fig.20	Fig.21
13	782	23230	10	50	0	Fig.22	Fig.23	Fig.24
13	782	23230	10	1	49	Fig.25	Fig.26	Fig.27
13	782	23230	10	50	0	Fig.28	Fig.29	Fig.30
13	782	23230	10	1	49	Fig.31	Fig.32	Fig.33
13	782	23230	10	50	0	Fig.34	Fig.35	Fig.36

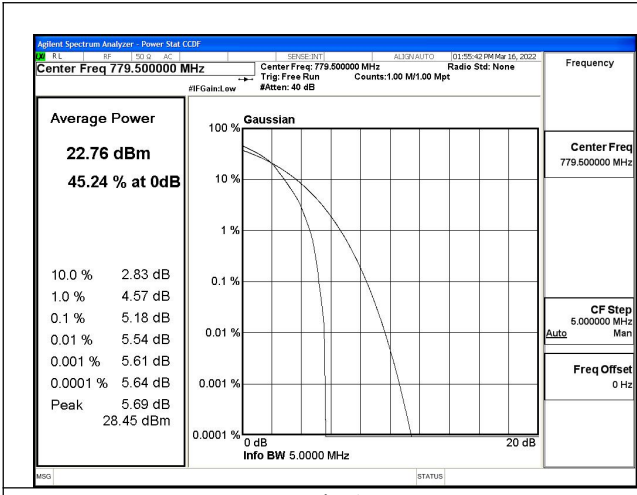


Fig.1

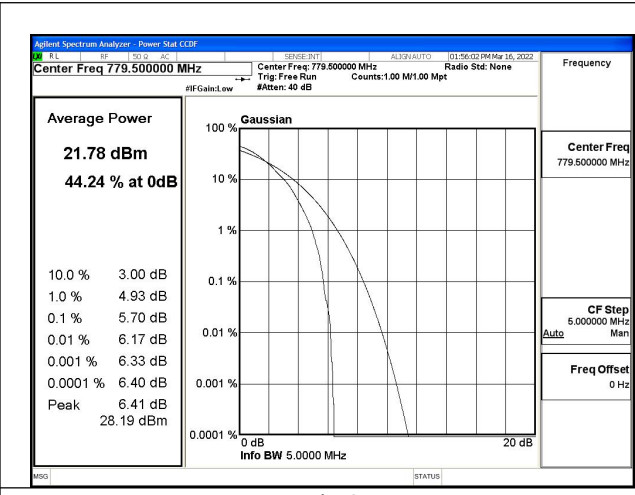


Fig.2

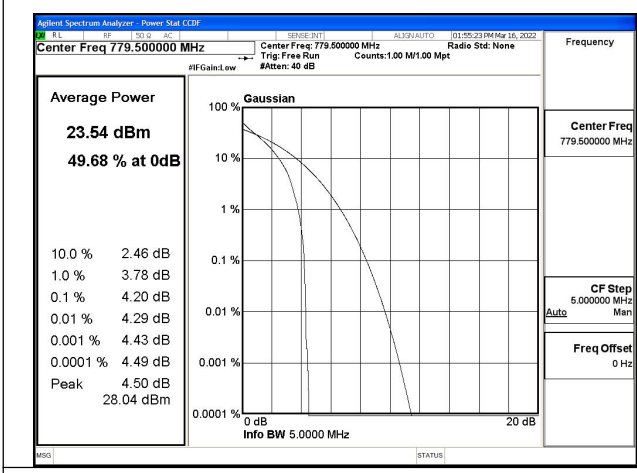


Fig.3

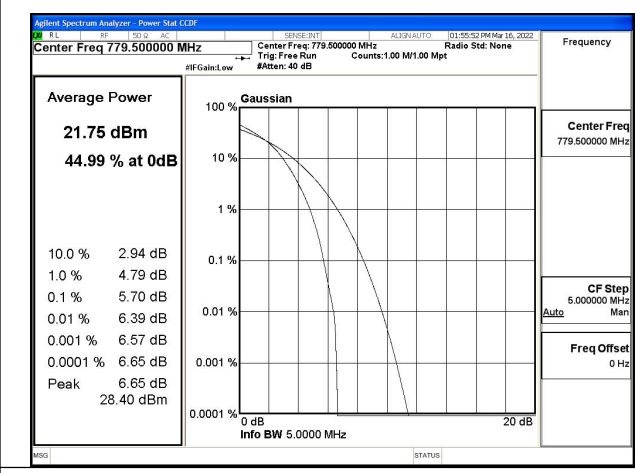


Fig.4

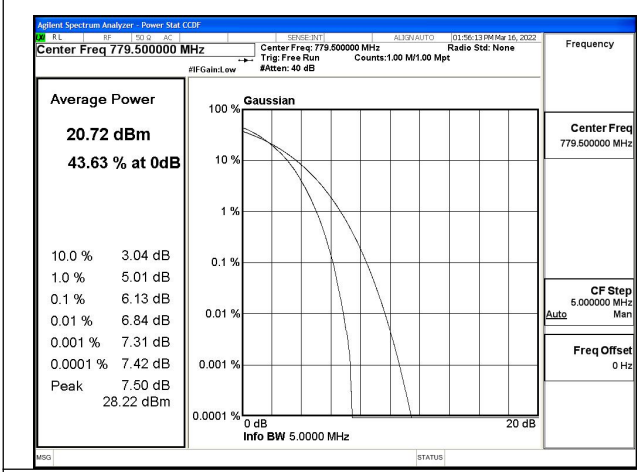


Fig.5

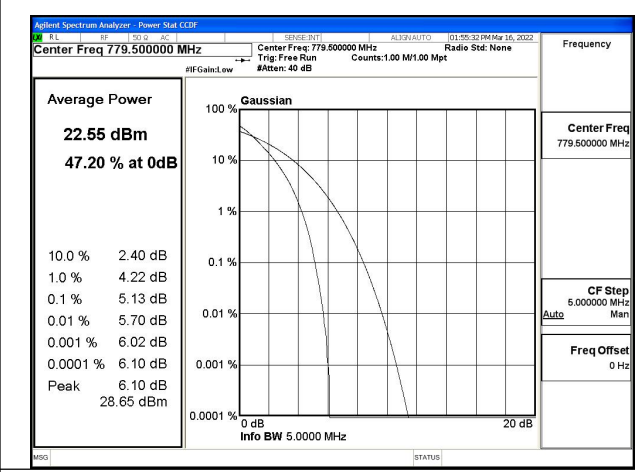


Fig.6