

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	22.27
QPSK	779.5	23205	5	1	12	23.25
QPSK	779.5	23205	5	1	24	23.73
QPSK	779.5	23205	5	12	0	21.76
QPSK	779.5	23205	5	12	7	22.28
QPSK	779.5	23205	5	12	13	22.59
QPSK	779.5	23205	5	25	0	22.19
QPSK	782	23230	5	1	0	23.71
QPSK	782	23230	5	1	12	23.87
QPSK	782	23230	5	1	24	23.13
QPSK	782	23230	5	12	0	22.76
QPSK	782	23230	5	12	7	22.77
QPSK	782	23230	5	12	13	22.46
QPSK	782	23230	5	25	0	22.59
QPSK	784.5	23255	5	1	0	23.65
QPSK	784.5	23255	5	1	12	22.95
QPSK	784.5	23255	5	1	24	22.76
QPSK	784.5	23255	5	12	0	22.33
QPSK	784.5	23255	5	12	7	21.95
QPSK	784.5	23255	5	12	13	21.76
QPSK	784.5	23255	5	25	0	22.06

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	779.5	23205	5	1	0	21.24
16QAM	779.5	23205	5	1	12	22.47
16QAM	779.5	23205	5	1	24	22.93
16QAM	779.5	23205	5	12	0	20.83
16QAM	779.5	23205	5	12	7	21.33
16QAM	779.5	23205	5	12	13	21.60
16QAM	779.5	23205	5	25	0	21.20
16QAM	782	23230	5	1	0	22.65
16QAM	782	23230	5	1	12	23.06
16QAM	782	23230	5	1	24	22.15
16QAM	782	23230	5	12	0	21.81
16QAM	782	23230	5	12	7	21.85
16QAM	782	23230	5	12	13	21.55
16QAM	782	23230	5	25	0	21.54
16QAM	784.5	23255	5	1	0	23.06
16QAM	784.5	23255	5	1	12	22.05
16QAM	784.5	23255	5	1	24	22.21
16QAM	784.5	23255	5	12	0	21.40
16QAM	784.5	23255	5	12	7	20.91
16QAM	784.5	23255	5	12	13	20.77
16QAM	784.5	23255	5	25	0	21.08
64QAM	779.5	23205	5	1	0	21.28
64QAM	779.5	23205	5	1	12	22.21
64QAM	779.5	23205	5	1	24	22.49
64QAM	779.5	23205	5	12	0	20.82
64QAM	779.5	23205	5	12	7	21.21
64QAM	779.5	23205	5	12	13	21.58
64QAM	779.5	23205	5	25	0	21.19
64QAM	782	23230	5	1	0	22.83
64QAM	782	23230	5	1	12	22.86
64QAM	782	23230	5	1	24	22.24
64QAM	782	23230	5	12	0	21.69
64QAM	782	23230	5	12	7	21.80
64QAM	782	23230	5	12	13	21.46
64QAM	782	23230	5	25	0	21.56
64QAM	784.5	23255	5	1	0	22.58
64QAM	784.5	23255	5	1	12	21.91
64QAM	784.5	23255	5	1	24	21.70
64QAM	784.5	23255	5	12	0	21.36
64QAM	784.5	23255	5	12	7	20.94
64QAM	784.5	23255	5	12	13	20.70
64QAM	784.5	23255	5	25	0	21.05

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	782	23230	10	1	0	22.63
QPSK	782	23230	10	1	25	23.69
QPSK	782	23230	10	1	49	22.63
QPSK	782	23230	10	25	0	22.21
QPSK	782	23230	10	25	12	22.53
QPSK	782	23230	10	25	25	22.07
QPSK	782	23230	10	50	0	22.16
QPSK	782	23230	10	1	0	22.26
QPSK	782	23230	10	1	25	23.48
QPSK	782	23230	10	1	49	22.50
QPSK	782	23230	10	25	0	22.12
QPSK	782	23230	10	25	12	22.42
QPSK	782	23230	10	25	25	21.96
QPSK	782	23230	10	50	0	22.07
QPSK	782	23230	10	1	0	22.34
QPSK	782	23230	10	1	25	23.54
QPSK	782	23230	10	1	49	22.53
QPSK	782	23230	10	25	0	22.14
QPSK	782	23230	10	25	12	22.44
QPSK	782	23230	10	25	25	21.96
QPSK	782	23230	10	50	0	22.09

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	782	23230	10	1	0	21.46
16QAM	782	23230	10	1	25	23.18
16QAM	782	23230	10	1	49	21.55
16QAM	782	23230	10	25	0	21.21
16QAM	782	23230	10	25	12	21.58
16QAM	782	23230	10	25	25	21.12
16QAM	782	23230	10	50	0	21.10
16QAM	782	23230	10	1	0	21.52
16QAM	782	23230	10	1	25	22.67
16QAM	782	23230	10	1	49	22.10
16QAM	782	23230	10	25	0	21.19
16QAM	782	23230	10	25	12	21.50
16QAM	782	23230	10	25	25	21.04
16QAM	782	23230	10	50	0	21.09
16QAM	782	23230	10	1	0	21.68
16QAM	782	23230	10	1	25	23.20
16QAM	782	23230	10	1	49	21.97
16QAM	782	23230	10	25	0	21.18
16QAM	782	23230	10	25	12	21.50
16QAM	782	23230	10	25	25	21.01
16QAM	782	23230	10	50	0	21.04
64QAM	782	23230	10	1	0	21.43
64QAM	782	23230	10	1	25	22.93
64QAM	782	23230	10	1	49	21.61
64QAM	782	23230	10	25	0	21.27
64QAM	782	23230	10	25	12	21.57
64QAM	782	23230	10	25	25	21.11
64QAM	782	23230	10	50	0	21.14
64QAM	782	23230	10	1	0	21.63
64QAM	782	23230	10	1	25	22.88
64QAM	782	23230	10	1	49	21.48
64QAM	782	23230	10	25	0	21.15
64QAM	782	23230	10	25	12	21.52
64QAM	782	23230	10	25	25	21.01
64QAM	782	23230	10	50	0	21.04
64QAM	782	23230	10	1	0	21.33
64QAM	782	23230	10	1	25	22.64
64QAM	782	23230	10	1	49	21.59
64QAM	782	23230	10	25	0	21.19
64QAM	782	23230	10	25	12	21.48
64QAM	782	23230	10	25	25	21.05
64QAM	782	23230	10	50	0	21.10

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	4.469	Fig.1
13	QPSK	782	23230	5	25	0	4.469	Fig.2
13	QPSK	784.5	23255	5	25	0	4.461	Fig.3
13	QPSK	782	23230	10	50	0	8.907	Fig.4
13	QPSK	782	23230	10	50	0	8.900	Fig.5
13	QPSK	782	23230	10	50	0	8.913	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	4.437	Fig.7
13	16QAM	782	23230	5	25	0	4.463	Fig.8
13	16QAM	784.5	23255	5	25	0	4.461	Fig.9
13	16QAM	782	23230	10	50	0	8.876	Fig.10
13	16QAM	782	23230	10	50	0	8.883	Fig.11
13	16QAM	782	23230	10	50	0	8.907	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	4.461	Fig.13
13	64QAM	782	23230	5	25	0	4.481	Fig.14
13	64QAM	784.5	23255	5	25	0	4.472	Fig.15
13	64QAM	782	23230	10	50	0	8.913	Fig.16
13	64QAM	782	23230	10	50	0	8.897	Fig.17
13	64QAM	782	23230	10	50	0	8.915	Fig.18

Test Mode: QPSK

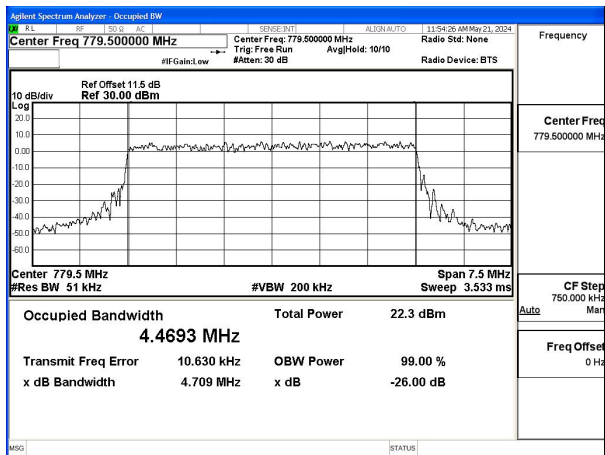


Fig.1

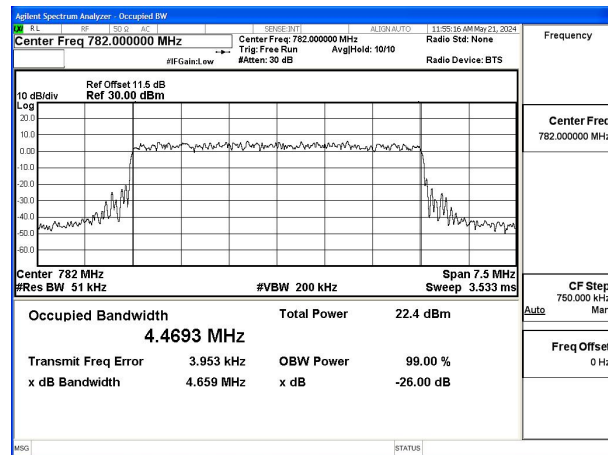


Fig.2

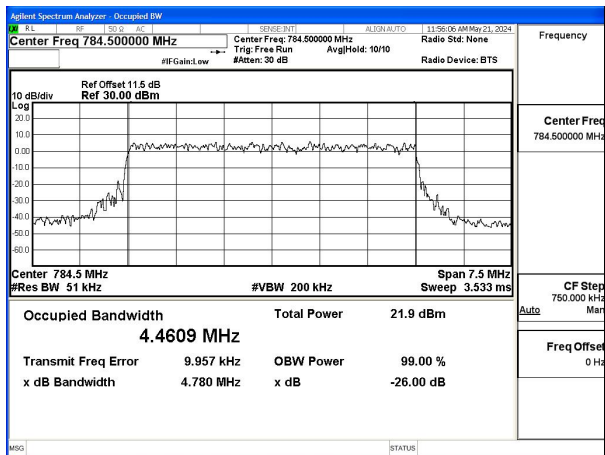


Fig.3

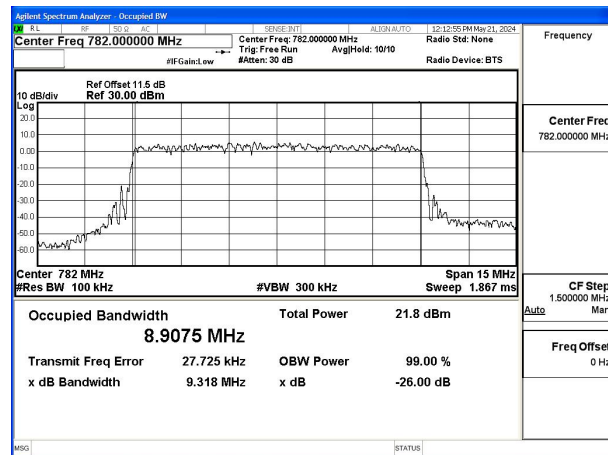


Fig.4

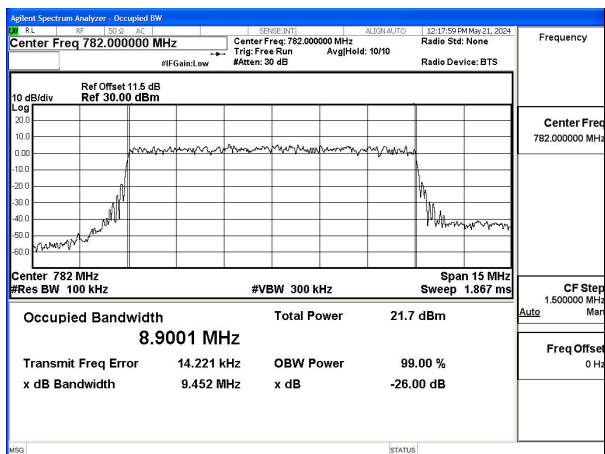


Fig.5

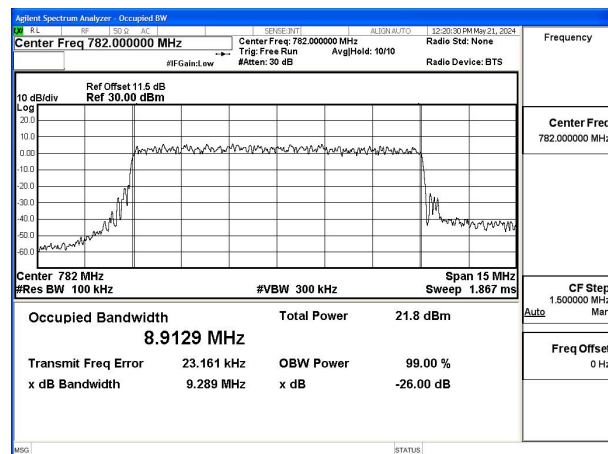


Fig.6

Test Mode: 16QAM

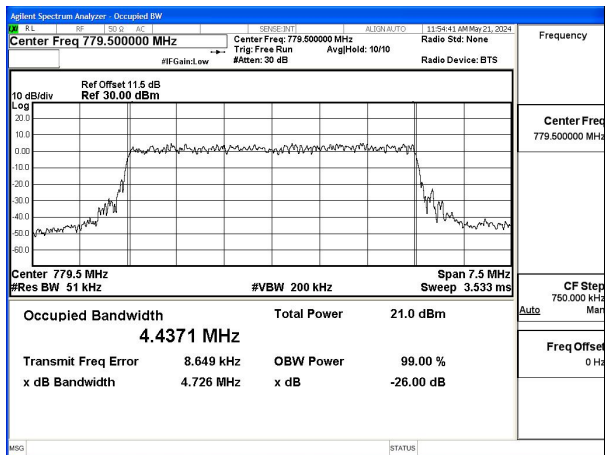


Fig.9

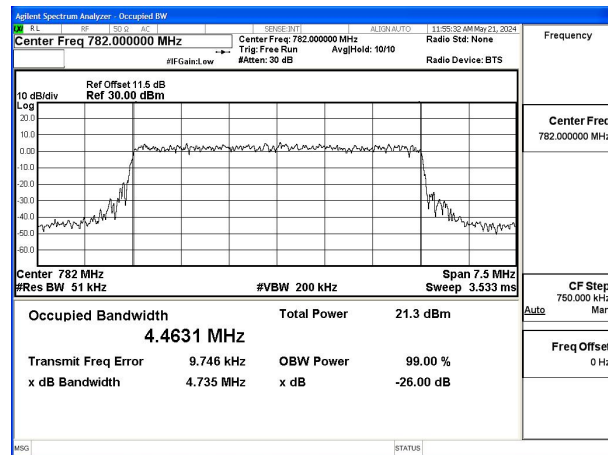


Fig.10

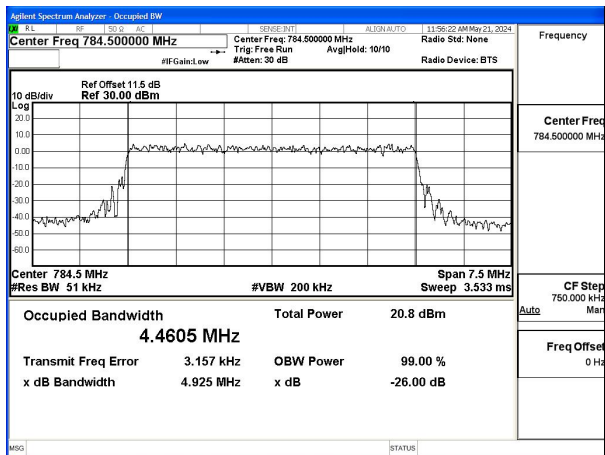


Fig.11

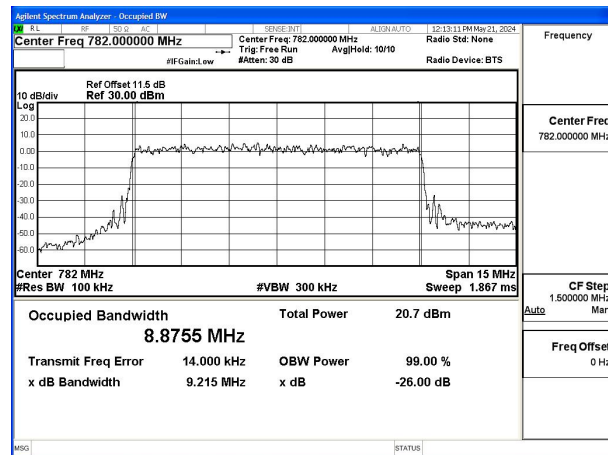


Fig.12

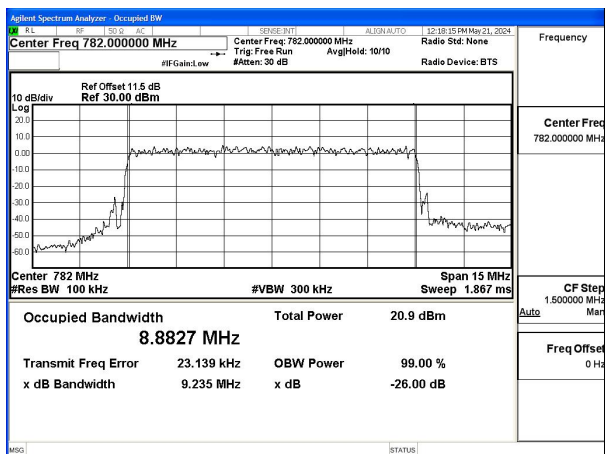


Fig.13

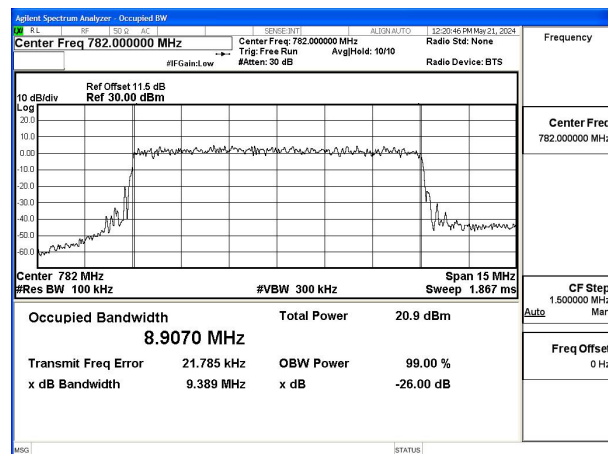


Fig.14

Test Mode: 64QAM

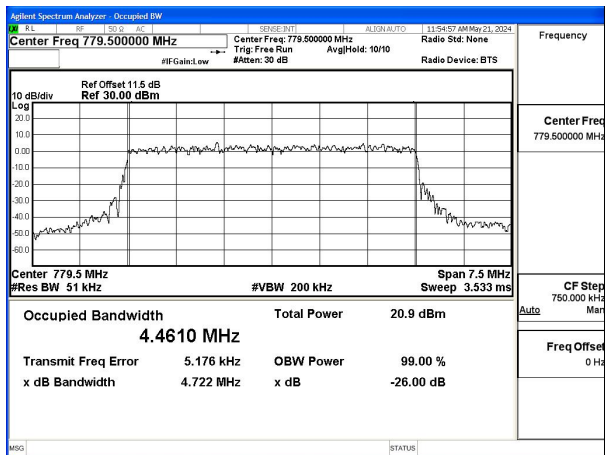


Fig.13

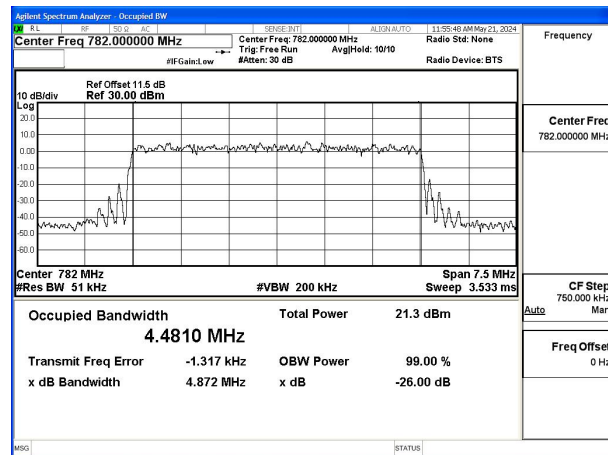


Fig.14

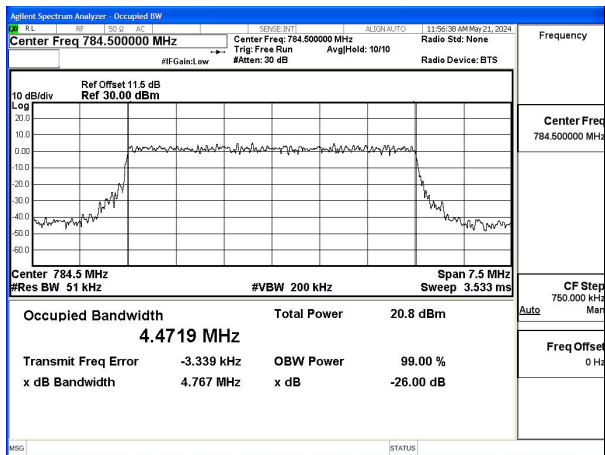


Fig.15

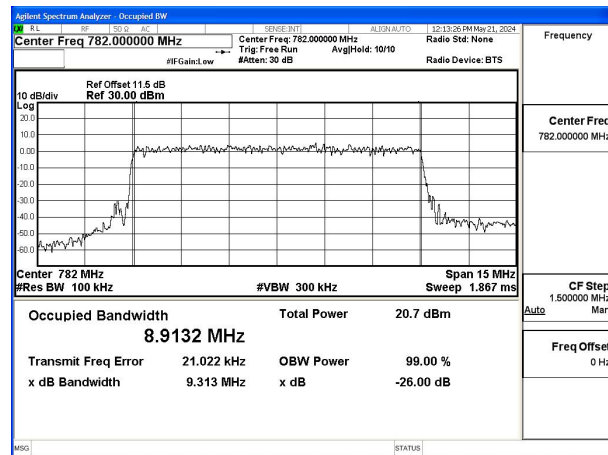


Fig.16

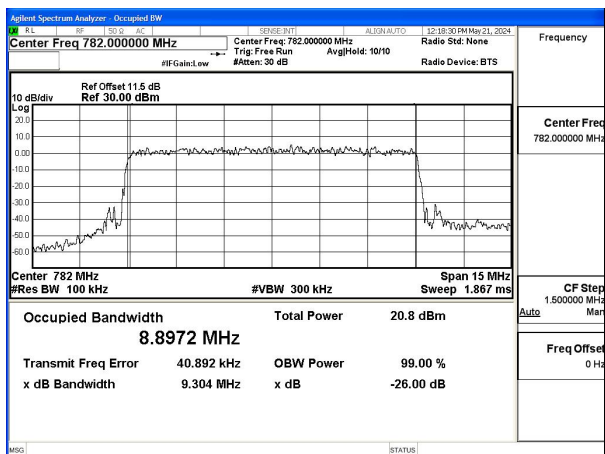


Fig.17

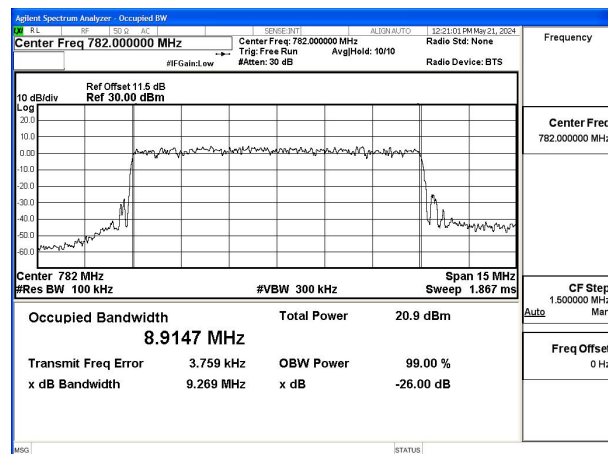


Fig.18

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	4.709	Fig.1
13	QPSK	782	23230	5	25	0	4.659	Fig.2
13	QPSK	784.5	23255	5	25	0	4.780	Fig.3
13	QPSK	782	23230	10	50	0	9.318	Fig.4
13	QPSK	782	23230	10	50	0	9.452	Fig.5
13	QPSK	782	23230	10	50	0	9.289	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	4.726	Fig.7
13	16QAM	782	23230	5	25	0	4.735	Fig.8
13	16QAM	784.5	23255	5	25	0	4.925	Fig.9
13	16QAM	782	23230	10	50	0	9.215	Fig.10
13	16QAM	782	23230	10	50	0	9.235	Fig.11
13	16QAM	782	23230	10	50	0	9.389	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	4.722	Fig.13
13	64QAM	782	23230	5	25	0	4.872	Fig.14
13	64QAM	784.5	23255	5	25	0	4.767	Fig.15
13	64QAM	782	23230	10	50	0	9.313	Fig.16
13	64QAM	782	23230	10	50	0	9.304	Fig.17
13	64QAM	782	23230	10	50	0	9.269	Fig.18

Test Mode: QPSK

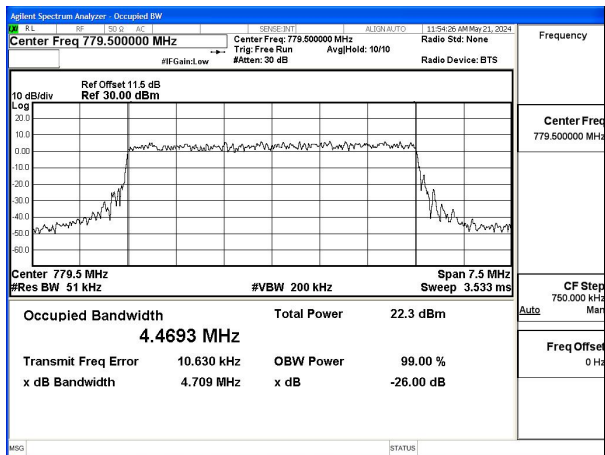


Fig.1

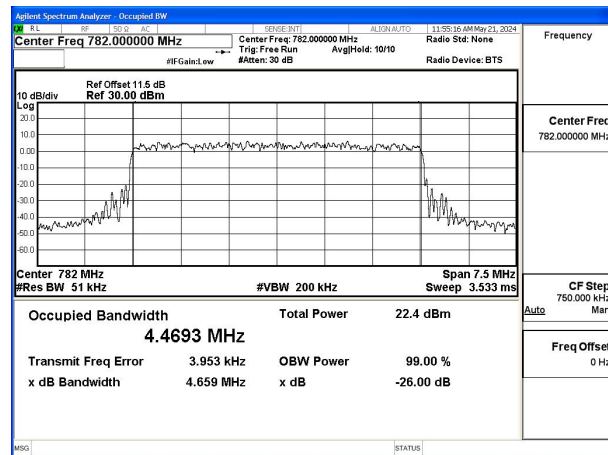


Fig.2

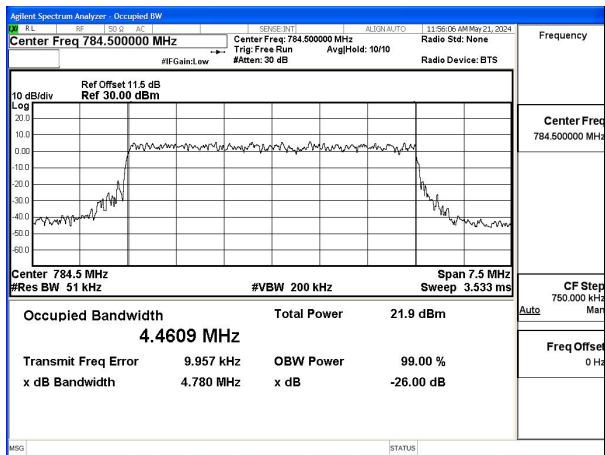


Fig.3

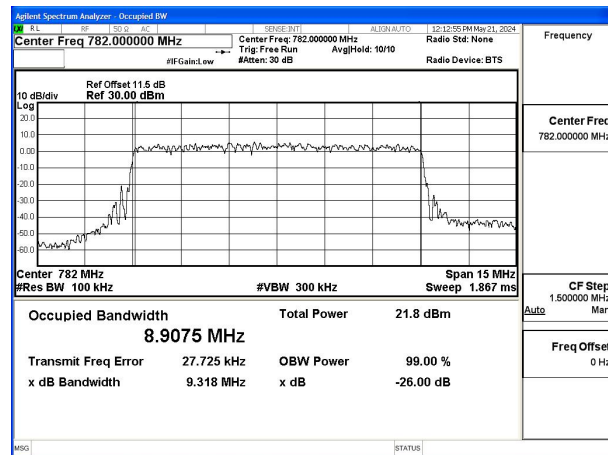


Fig.4

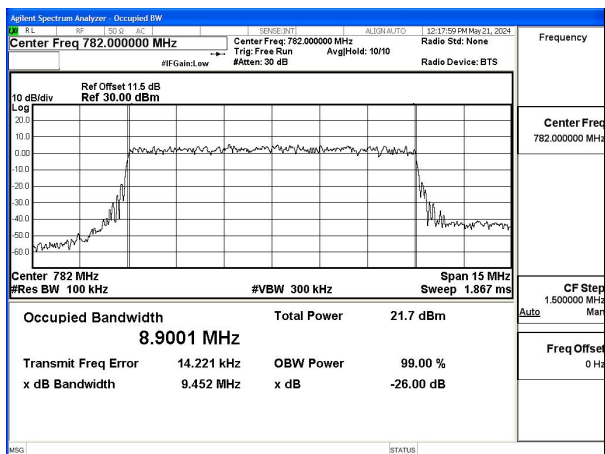


Fig.5

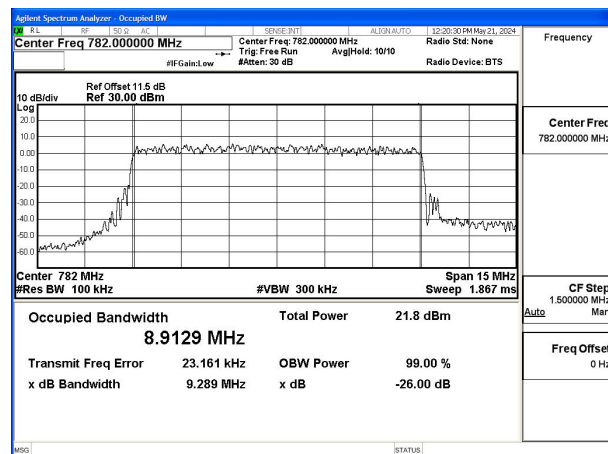


Fig.6

Test Mode: 16QAM

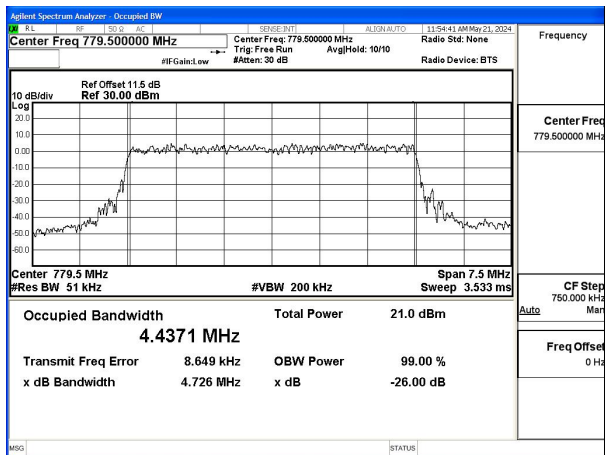


Fig.9

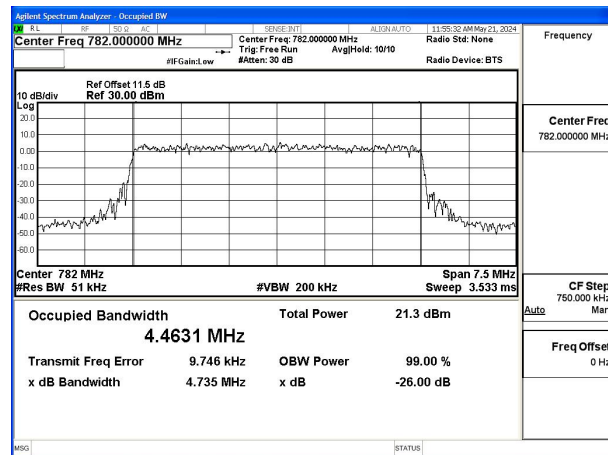


Fig.8

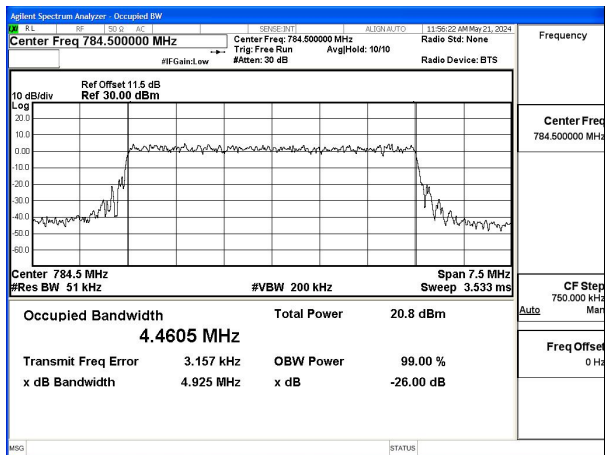


Fig.9

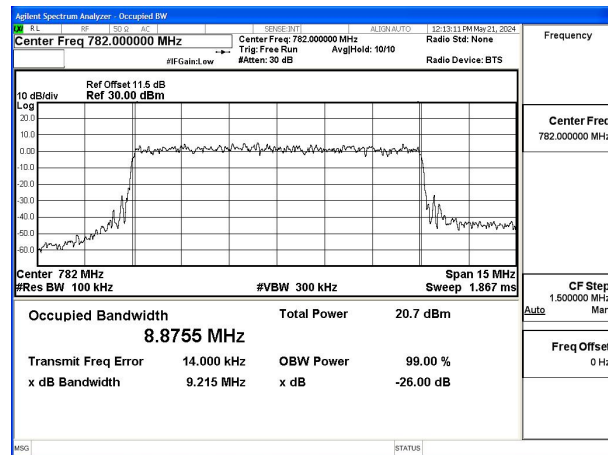


Fig.10

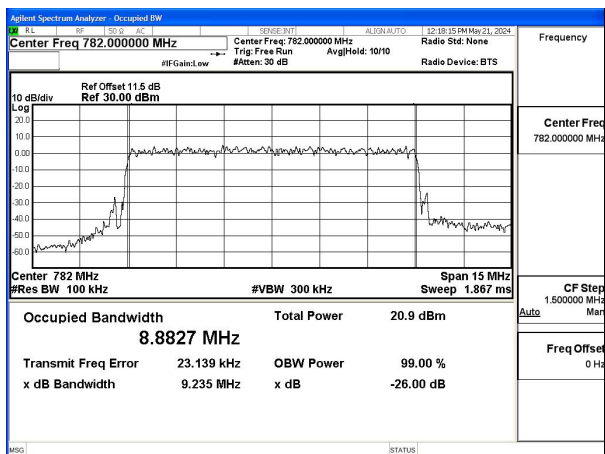


Fig.11

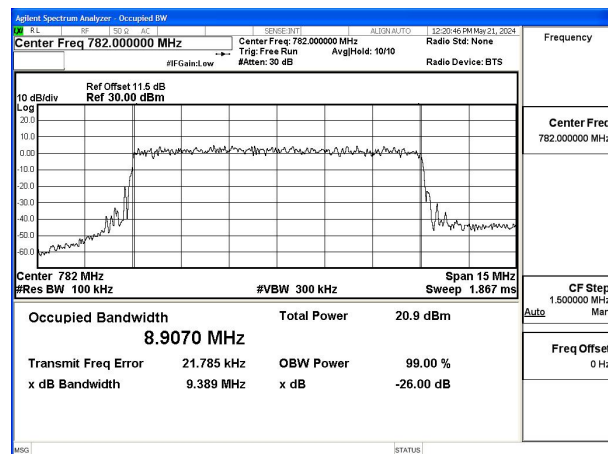


Fig.12

Test Mode: 64QAM

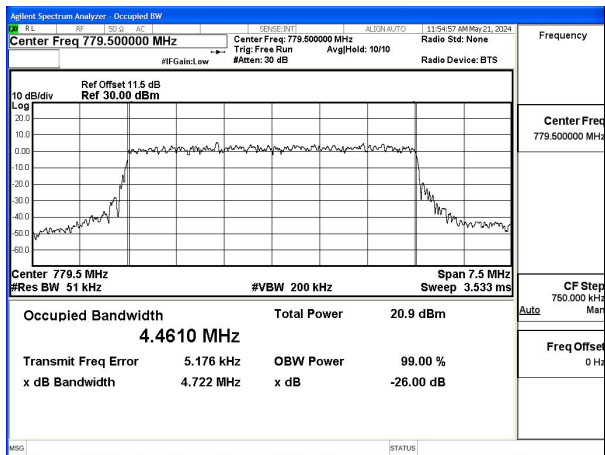


Fig.13

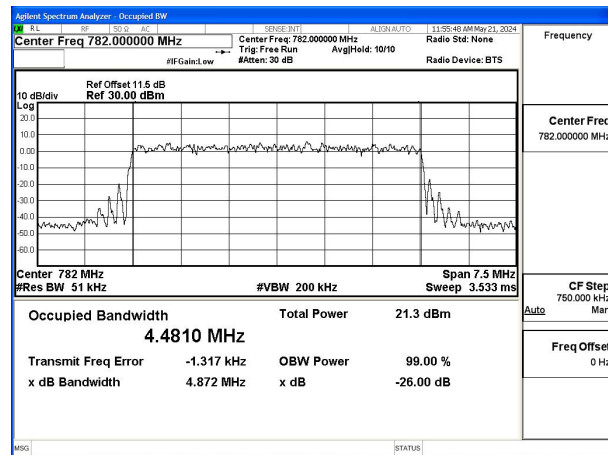


Fig.14

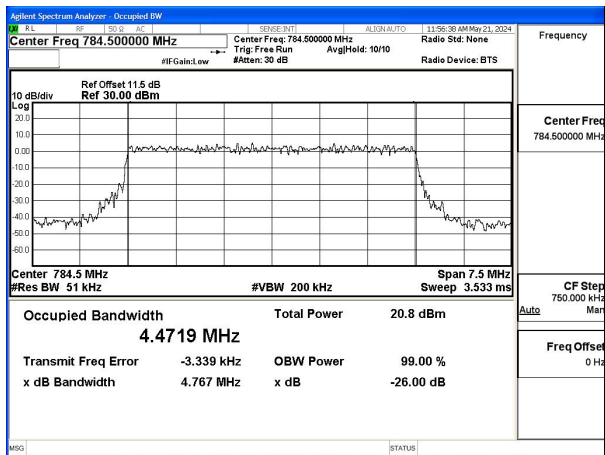


Fig.15

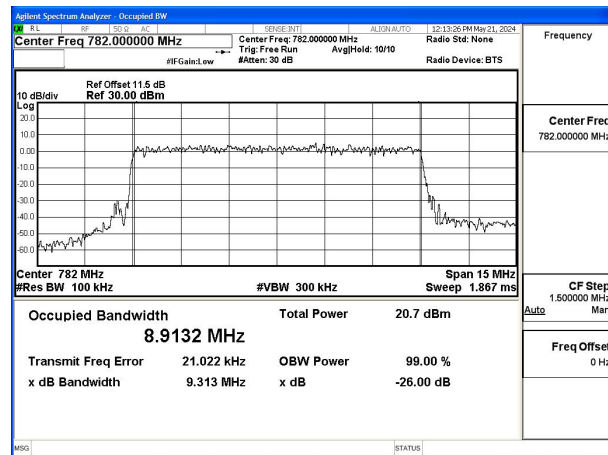


Fig.16

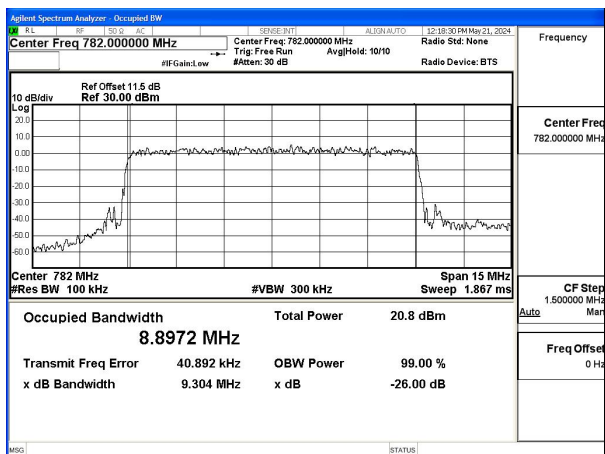


Fig.17

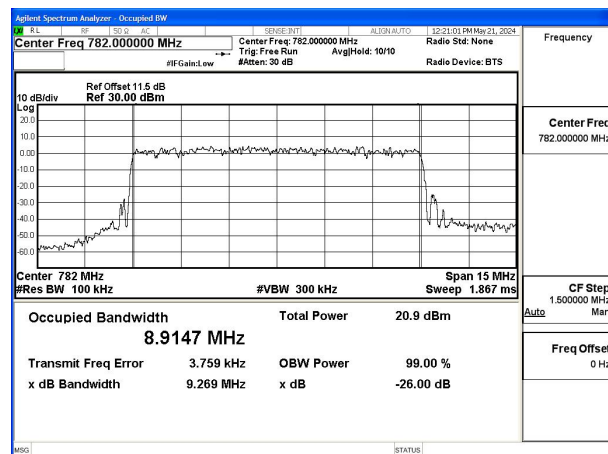


Fig.18

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

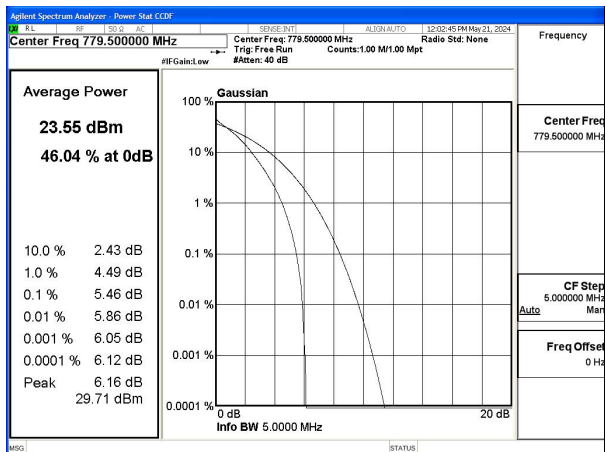


Fig.1

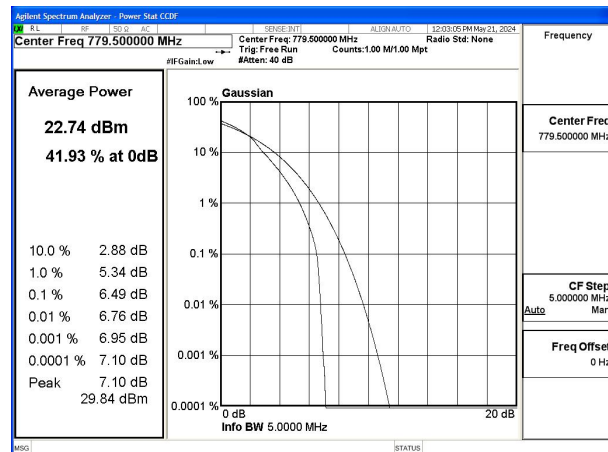


Fig.2

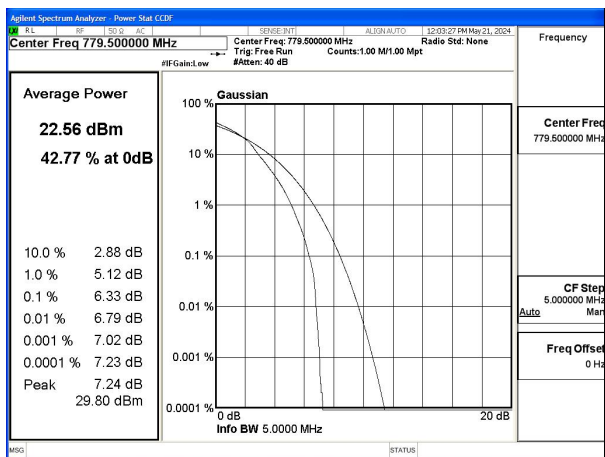


Fig.3

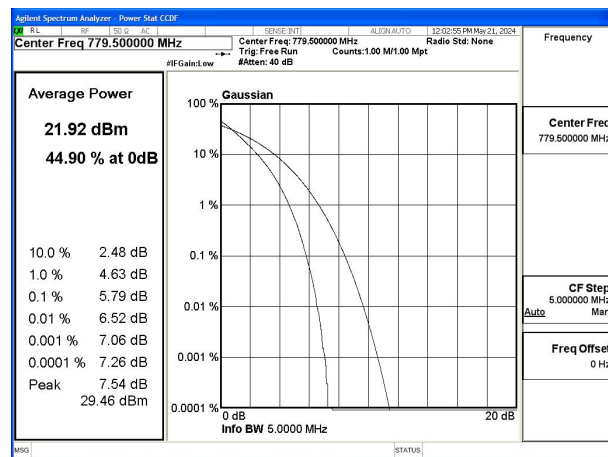


Fig.4

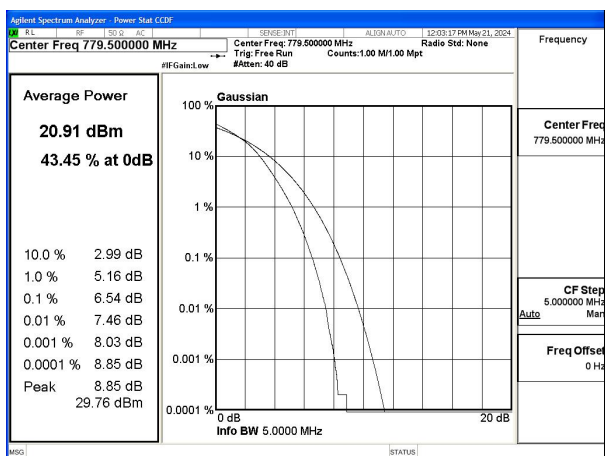


Fig.5

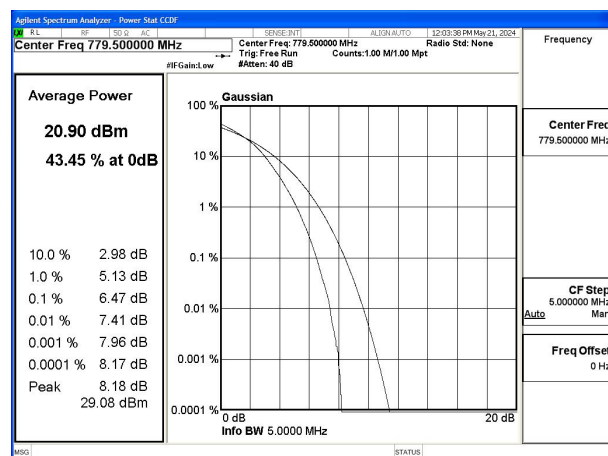


Fig.6

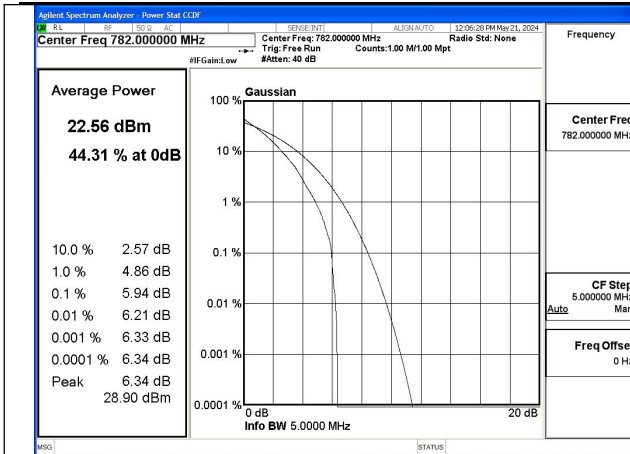


Fig.7

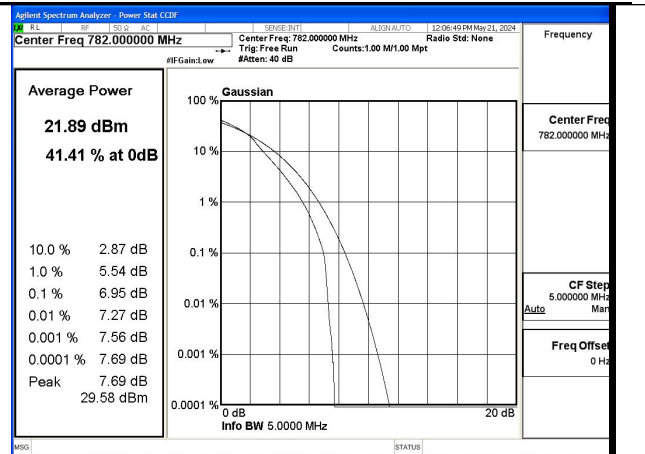


Fig.8

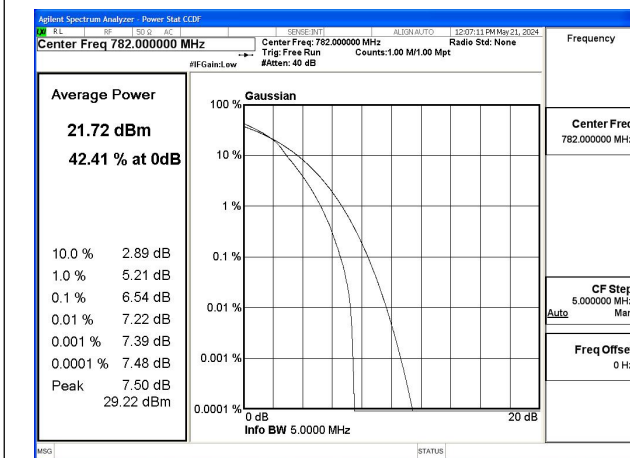


Fig.9

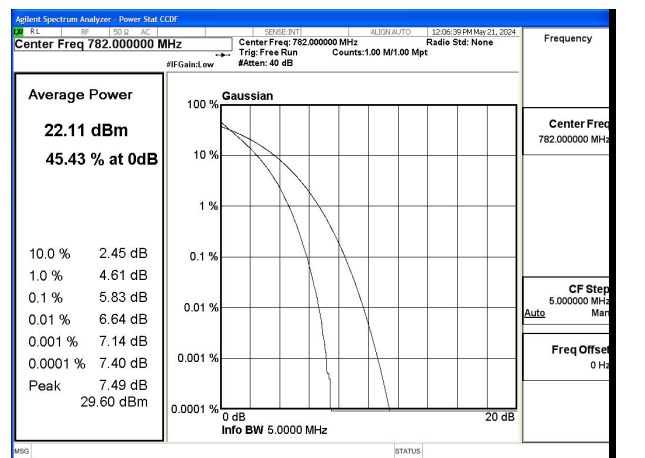


Fig.10

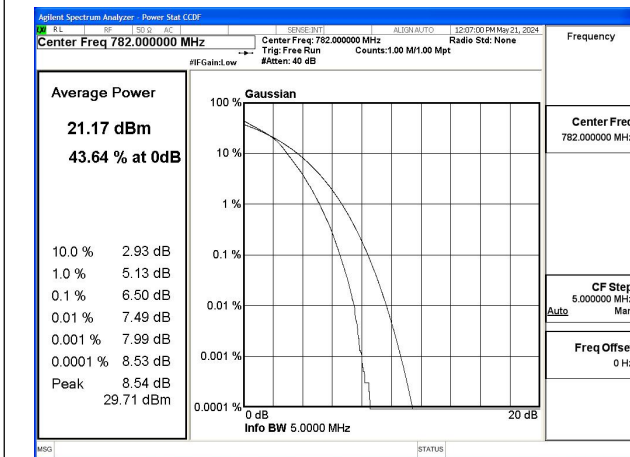


Fig.11

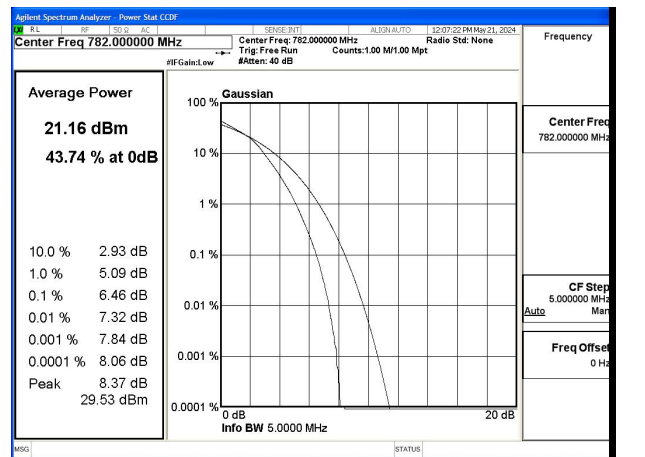


Fig.12