

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	23.13
QPSK	779.5	23205	5	1	12	23.21
QPSK	779.5	23205	5	1	24	23.00
QPSK	779.5	23205	5	12	0	22.16
QPSK	779.5	23205	5	12	7	22.14
QPSK	779.5	23205	5	12	13	22.11
QPSK	779.5	23205	5	25	0	22.11
QPSK	782	23230	5	1	0	23.25
QPSK	782	23230	5	1	12	23.31
QPSK	782	23230	5	1	24	23.04
QPSK	782	23230	5	12	0	22.03
QPSK	782	23230	5	12	7	22.09
QPSK	782	23230	5	12	13	22.11
QPSK	782	23230	5	25	0	22.00
QPSK	784.5	23255	5	1	0	22.93
QPSK	784.5	23255	5	1	12	23.18
QPSK	784.5	23255	5	1	24	22.99
QPSK	784.5	23255	5	12	0	22.04
QPSK	784.5	23255	5	12	7	22.06
QPSK	784.5	23255	5	12	13	22.14
QPSK	784.5	23255	5	25	0	21.99

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	779.5	23205	5	1	0	22.65
16QAM	779.5	23205	5	1	12	22.43
16QAM	779.5	23205	5	1	24	22.42
16QAM	779.5	23205	5	12	0	21.08
16QAM	779.5	23205	5	12	7	21.04
16QAM	779.5	23205	5	12	13	21.14
16QAM	779.5	23205	5	25	0	21.12
16QAM	782	23230	5	1	0	22.71
16QAM	782	23230	5	1	12	22.65
16QAM	782	23230	5	1	24	22.47
16QAM	782	23230	5	12	0	20.98
16QAM	782	23230	5	12	7	21.12
16QAM	782	23230	5	12	13	21.22
16QAM	782	23230	5	25	0	21.14
16QAM	784.5	23255	5	1	0	22.41
16QAM	784.5	23255	5	1	12	22.97
16QAM	784.5	23255	5	1	24	22.48
16QAM	784.5	23255	5	12	0	21.05
16QAM	784.5	23255	5	12	7	20.95
16QAM	784.5	23255	5	12	13	21.01
16QAM	784.5	23255	5	25	0	21.10
64QAM	779.5	23205	5	1	0	22.32
64QAM	779.5	23205	5	1	12	22.16
64QAM	779.5	23205	5	1	24	22.41
64QAM	779.5	23205	5	12	0	21.11
64QAM	779.5	23205	5	12	7	21.05
64QAM	779.5	23205	5	12	13	21.07
64QAM	779.5	23205	5	25	0	21.17
64QAM	782	23230	5	1	0	22.21
64QAM	782	23230	5	1	12	22.38
64QAM	782	23230	5	1	24	21.92
64QAM	782	23230	5	12	0	21.05
64QAM	782	23230	5	12	7	21.19
64QAM	782	23230	5	12	13	21.04
64QAM	782	23230	5	25	0	21.10
64QAM	784.5	23255	5	1	0	22.18
64QAM	784.5	23255	5	1	12	22.63
64QAM	784.5	23255	5	1	24	22.20
64QAM	784.5	23255	5	12	0	21.16
64QAM	784.5	23255	5	12	7	21.01
64QAM	784.5	23255	5	12	13	21.11
64QAM	784.5	23255	5	25	0	20.96

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	782	23230	10	1	0	23.18
QPSK	782	23230	10	1	25	23.07
QPSK	782	23230	10	1	49	22.93
QPSK	782	23230	10	25	0	22.06
QPSK	782	23230	10	25	12	22.13
QPSK	782	23230	10	25	25	22.11
QPSK	782	23230	10	50	0	22.12
QPSK	782	23230	10	1	0	22.96
QPSK	782	23230	10	1	25	22.94
QPSK	782	23230	10	1	49	22.94
QPSK	782	23230	10	25	0	22.05
QPSK	782	23230	10	25	12	22.03
QPSK	782	23230	10	25	25	22.10
QPSK	782	23230	10	50	0	22.14
QPSK	782	23230	10	1	0	23.43
QPSK	782	23230	10	1	25	23.13
QPSK	782	23230	10	1	49	22.92
QPSK	782	23230	10	25	0	22.17
QPSK	782	23230	10	25	12	22.04
QPSK	782	23230	10	25	25	22.15
QPSK	782	23230	10	50	0	22.10

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	782	23230	10	1	0	22.57
16QAM	782	23230	10	1	25	22.56
16QAM	782	23230	10	1	49	22.52
16QAM	782	23230	10	25	0	21.15
16QAM	782	23230	10	25	12	21.08
16QAM	782	23230	10	25	25	21.07
16QAM	782	23230	10	50	0	20.98
16QAM	782	23230	10	1	0	22.25
16QAM	782	23230	10	1	25	22.42
16QAM	782	23230	10	1	49	22.39
16QAM	782	23230	10	25	0	21.04
16QAM	782	23230	10	25	12	20.98
16QAM	782	23230	10	25	25	21.15
16QAM	782	23230	10	50	0	21.15
16QAM	782	23230	10	1	0	22.47
16QAM	782	23230	10	1	25	22.53
16QAM	782	23230	10	1	49	22.26
16QAM	782	23230	10	25	0	21.08
16QAM	782	23230	10	25	12	21.07
16QAM	782	23230	10	25	25	21.11
16QAM	782	23230	10	50	0	21.09
64QAM	782	23230	10	1	0	21.49
64QAM	782	23230	10	1	25	21.39
64QAM	782	23230	10	1	49	21.09
64QAM	782	23230	10	25	0	20.12
64QAM	782	23230	10	25	12	20.18
64QAM	782	23230	10	25	25	20.03
64QAM	782	23230	10	50	0	20.14
64QAM	782	23230	10	1	0	20.77
64QAM	782	23230	10	1	25	21.64
64QAM	782	23230	10	1	49	20.79
64QAM	782	23230	10	25	0	20.11
64QAM	782	23230	10	25	12	20.13
64QAM	782	23230	10	25	25	20.05
64QAM	782	23230	10	50	0	20.07
64QAM	782	23230	10	1	0	21.41
64QAM	782	23230	10	1	25	21.38
64QAM	782	23230	10	1	49	21.16
64QAM	782	23230	10	25	0	20.10
64QAM	782	23230	10	25	12	20.07
64QAM	782	23230	10	25	25	20.05
64QAM	782	23230	10	50	0	20.06

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	4.443	Fig.1
13	QPSK	782	23230	5	25	0	4.475	Fig.2
13	QPSK	784.5	23255	5	25	0	4.456	Fig.3
13	QPSK	782	23230	10	50	0	8.943	Fig.4
13	QPSK	782	23230	10	50	0	8.879	Fig.5
13	QPSK	782	23230	10	50	0	8.904	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	4.460	Fig.7
13	16QAM	782	23230	5	25	0	4.453	Fig.8
13	16QAM	784.5	23255	5	25	0	4.455	Fig.9
13	16QAM	782	23230	10	50	0	8.893	Fig.10
13	16QAM	782	23230	10	50	0	8.869	Fig.11
13	16QAM	782	23230	10	50	0	8.929	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	4.466	Fig.13
13	64QAM	782	23230	5	25	0	4.467	Fig.14
13	64QAM	784.5	23255	5	25	0	4.453	Fig.15
13	64QAM	782	23230	10	50	0	8.884	Fig.16
13	64QAM	782	23230	10	50	0	8.902	Fig.17
13	64QAM	782	23230	10	50	0	8.890	Fig.18

Test Mode: QPSK

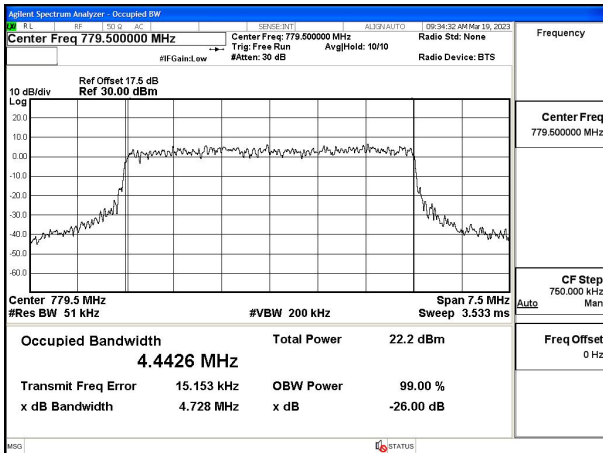


Fig.1

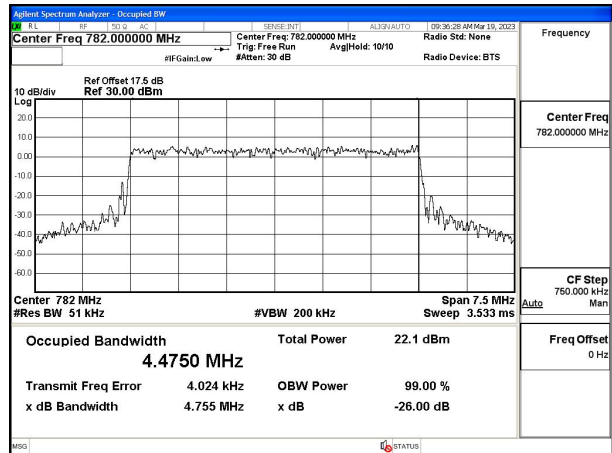


Fig.2

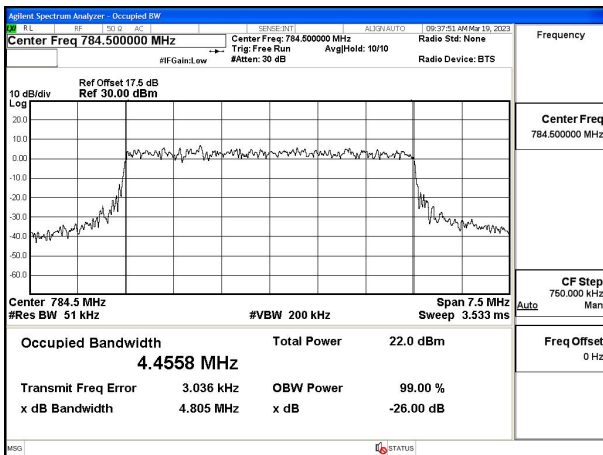


Fig.3

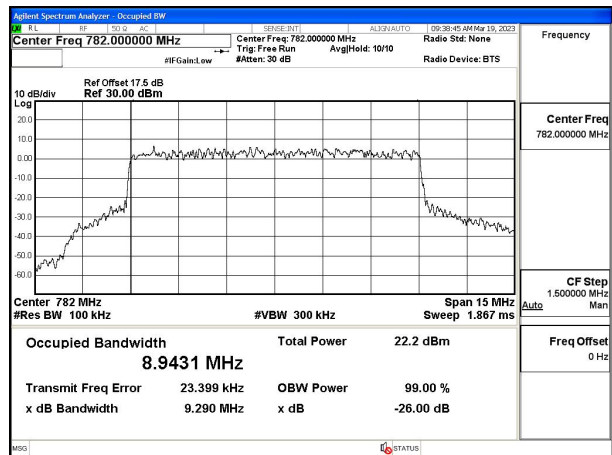


Fig.4

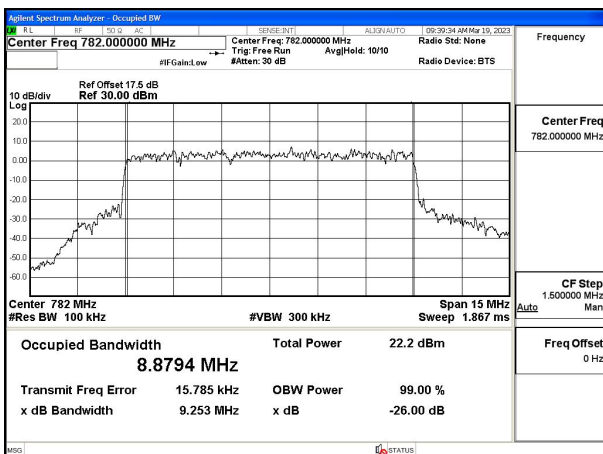


Fig.5

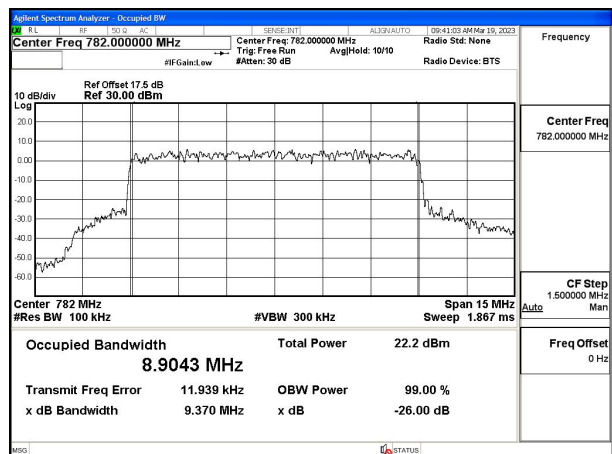


Fig.6

Test Mode: 16QAM

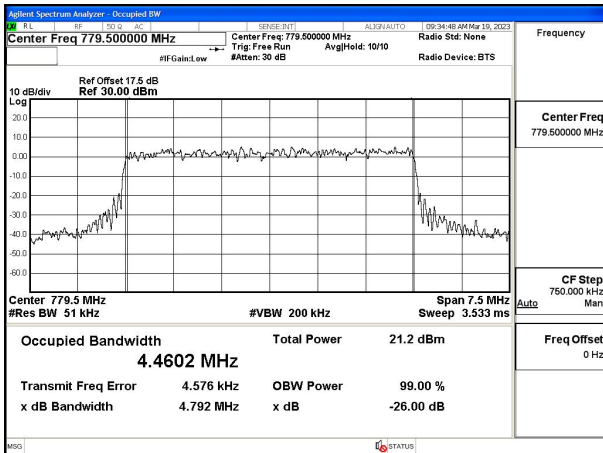


Fig.7

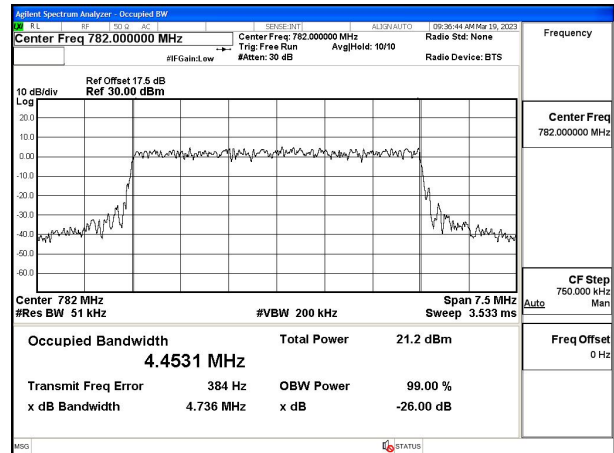


Fig.8

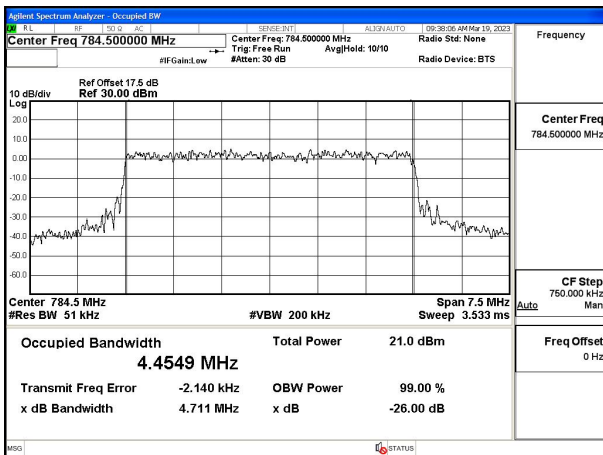


Fig.9

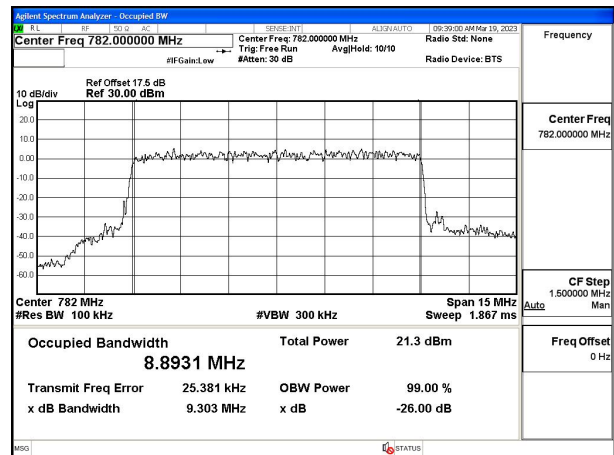


Fig.10

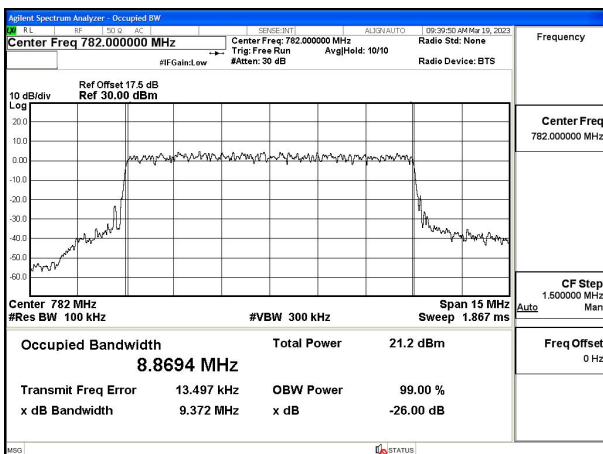


Fig.11

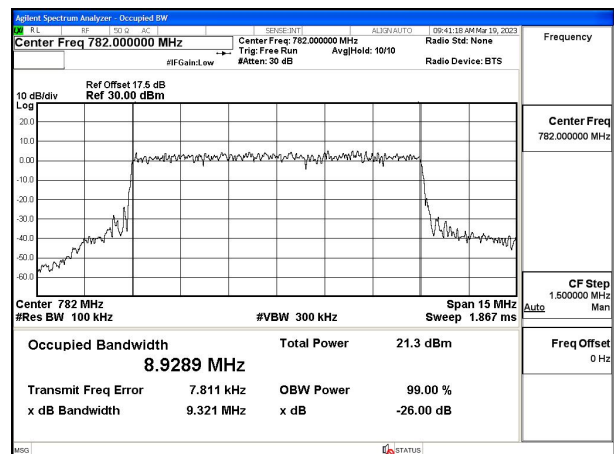


Fig.12

Test Mode: 64QAM

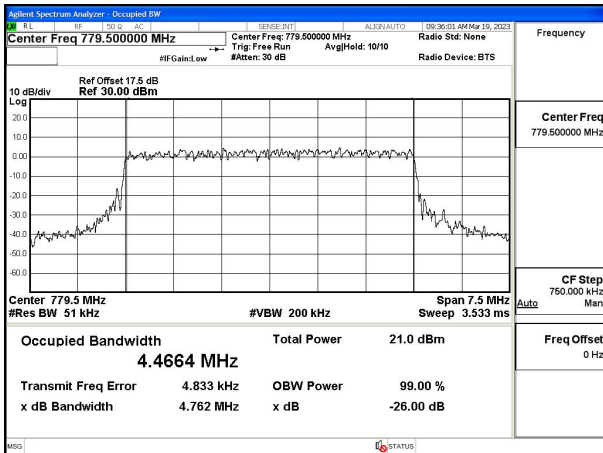


Fig.13

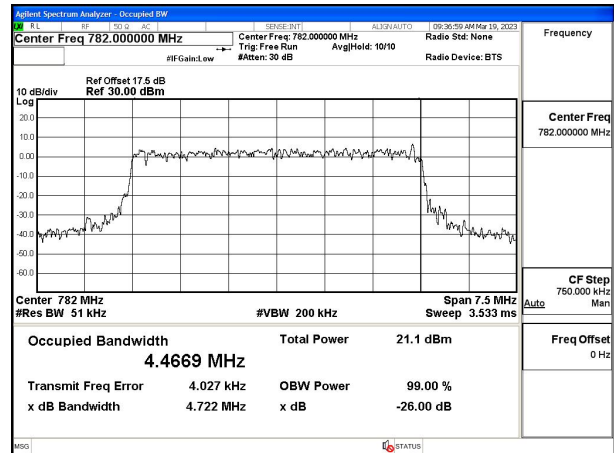


Fig.14

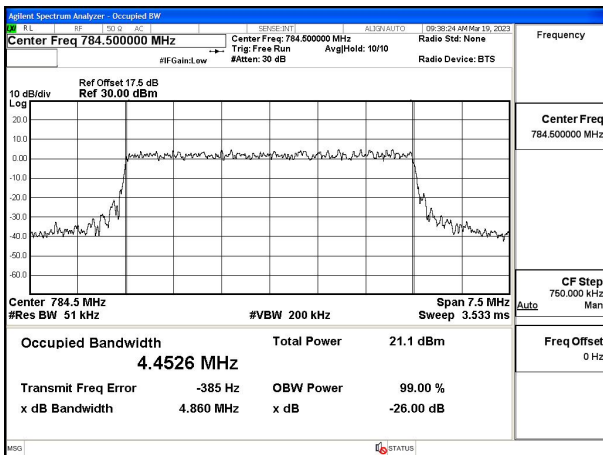


Fig.15

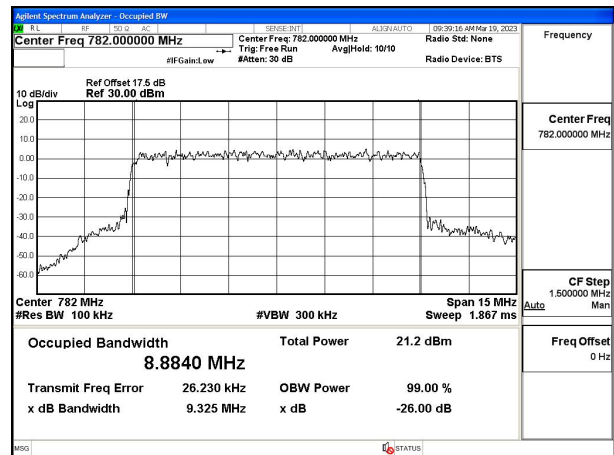


Fig.16

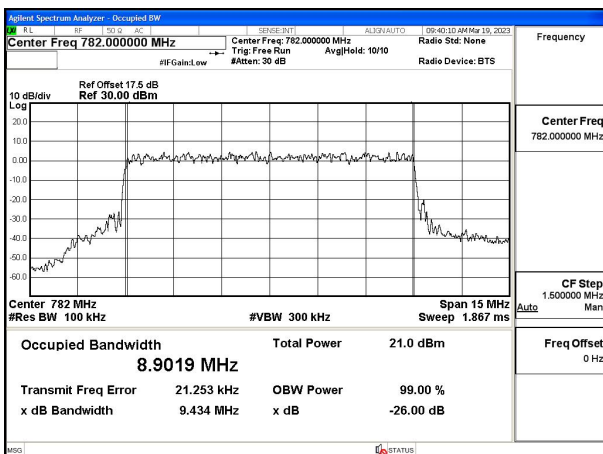


Fig.17

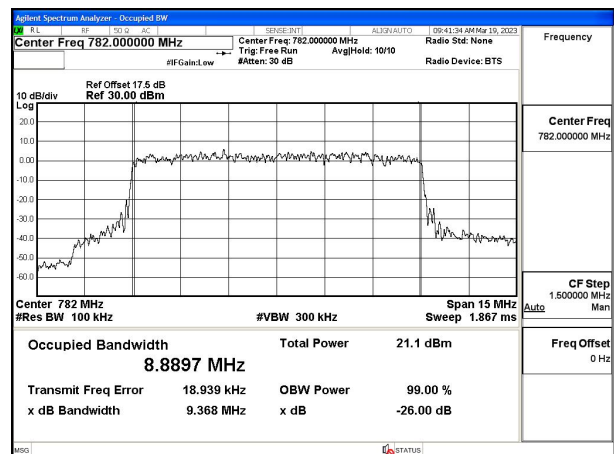


Fig.18

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	4.728	Fig.1
13	QPSK	782	23230	5	25	0	4.755	Fig.2
13	QPSK	784.5	23255	5	25	0	4.805	Fig.3
13	QPSK	782	23230	10	50	0	9.290	Fig.4
13	QPSK	782	23230	10	50	0	9.253	Fig.5
13	QPSK	782	23230	10	50	0	9.370	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	4.792	Fig.7
13	16QAM	782	23230	5	25	0	4.736	Fig.8
13	16QAM	784.5	23255	5	25	0	4.711	Fig.9
13	16QAM	782	23230	10	50	0	9.303	Fig.10
13	16QAM	782	23230	10	50	0	9.372	Fig.11
13	16QAM	782	23230	10	50	0	9.321	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	4.762	Fig.13
13	64QAM	782	23230	5	25	0	4.722	Fig.14
13	64QAM	784.5	23255	5	25	0	4.860	Fig.15
13	64QAM	782	23230	10	50	0	9.325	Fig.16
13	64QAM	782	23230	10	50	0	9.434	Fig.17
13	64QAM	782	23230	10	50	0	9.368	Fig.18

Test Mode: QPSK

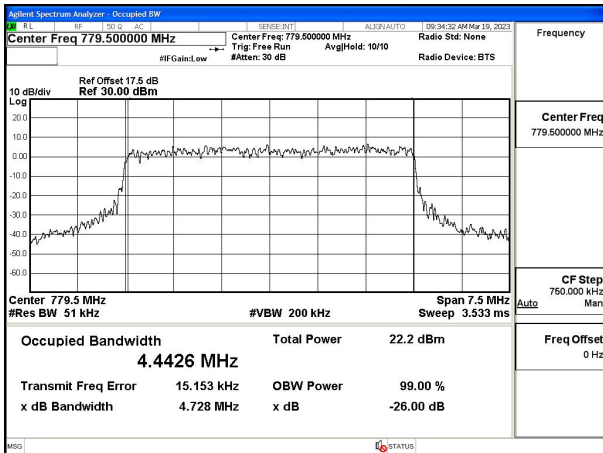


Fig.1

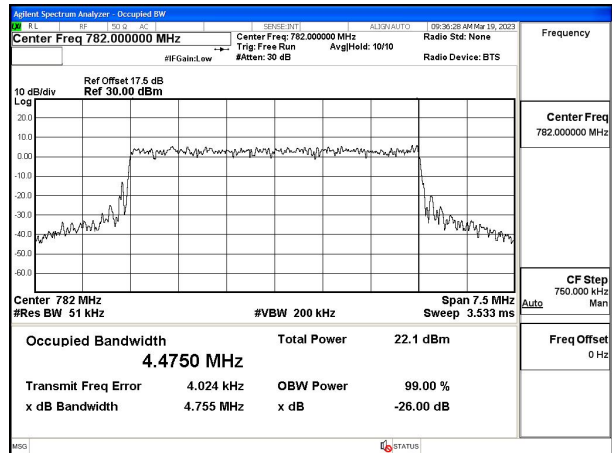


Fig.2

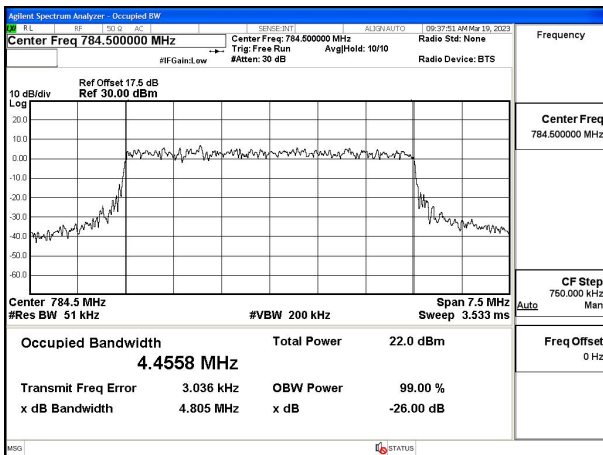


Fig.3

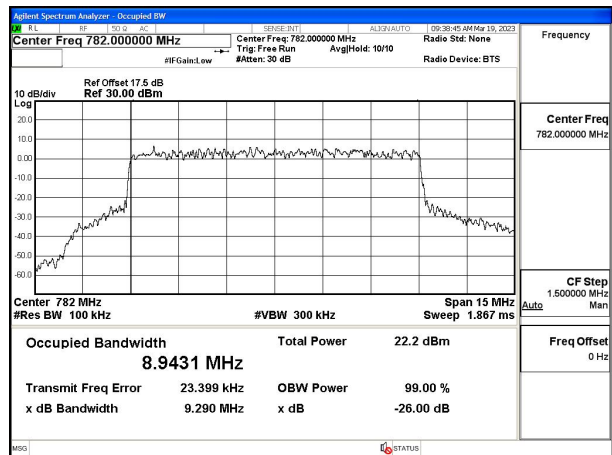


Fig.4

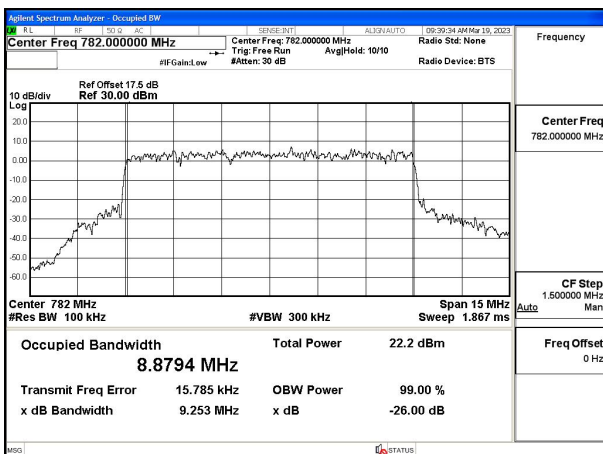


Fig.5

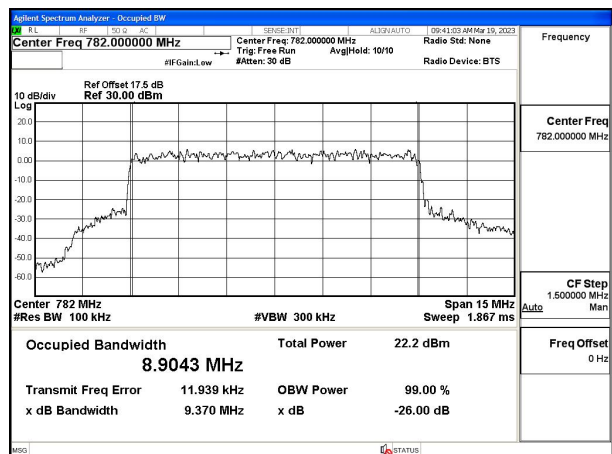


Fig.6

Test Mode: 16QAM

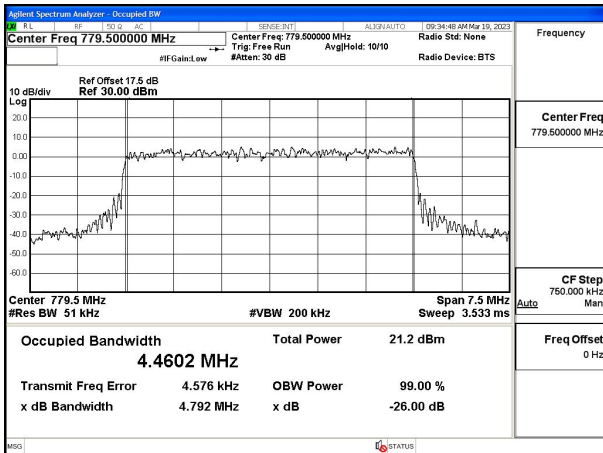


Fig.7

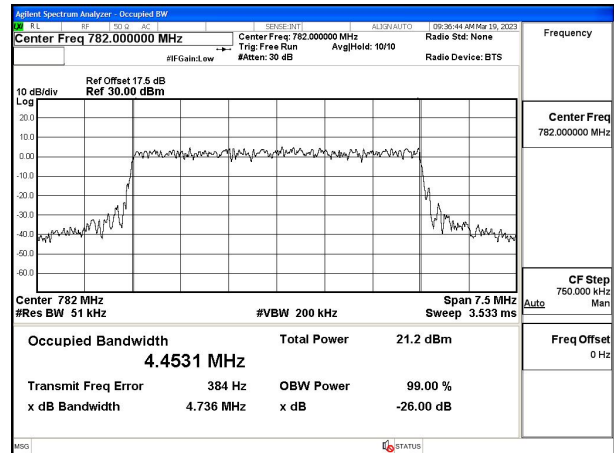


Fig.8

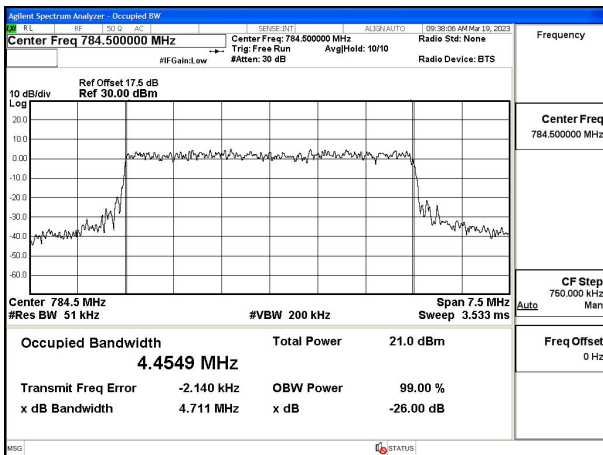


Fig.9

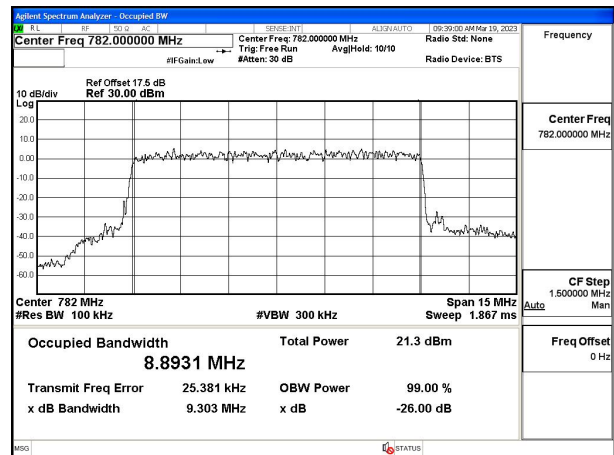


Fig.10

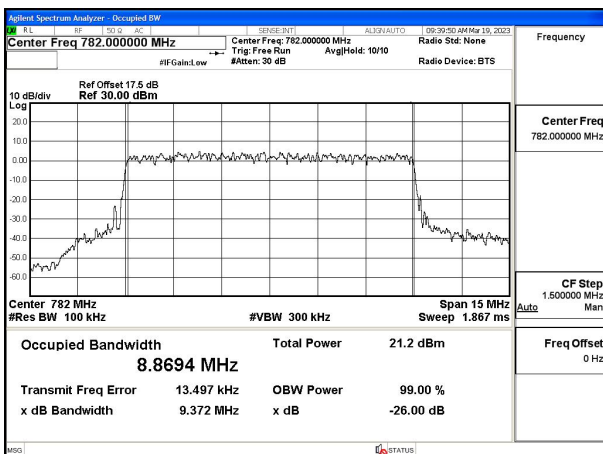


Fig.11

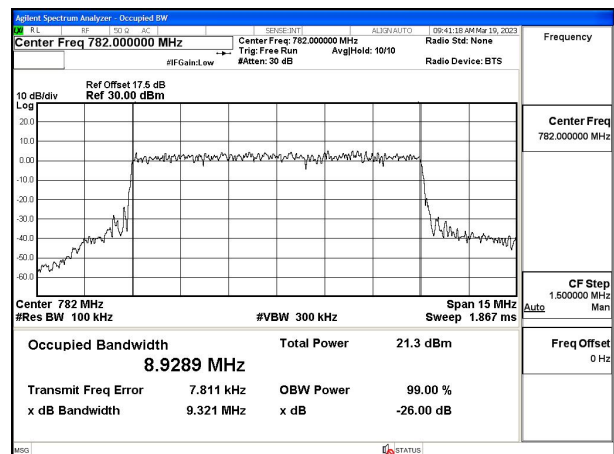


Fig.12

Test Mode: 64QAM

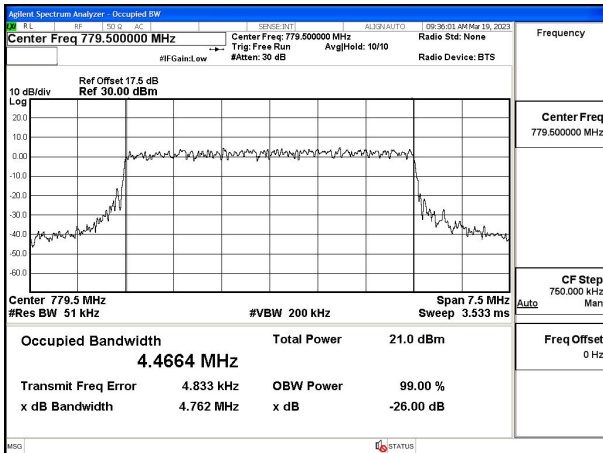


Fig.13

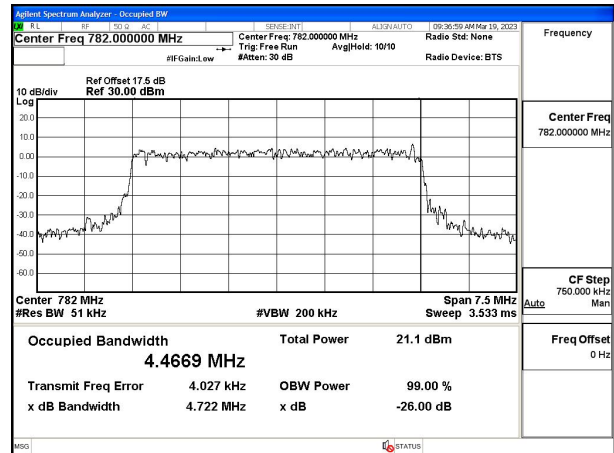


Fig.14

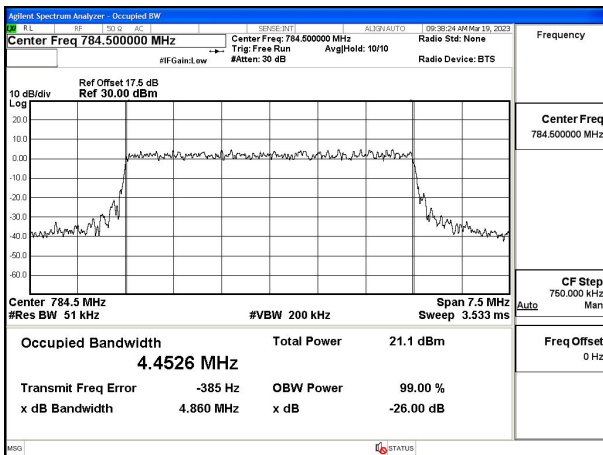


Fig.15

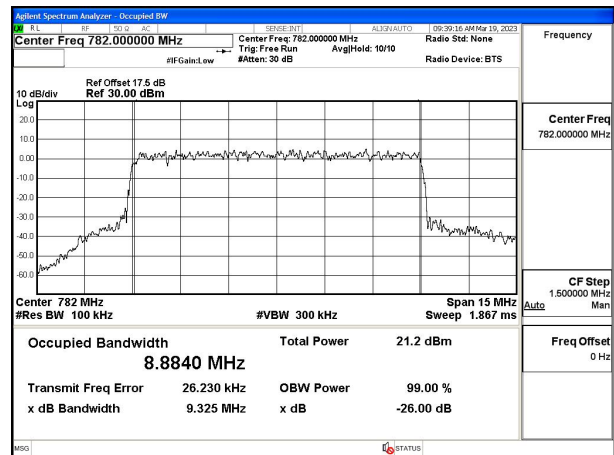


Fig.16

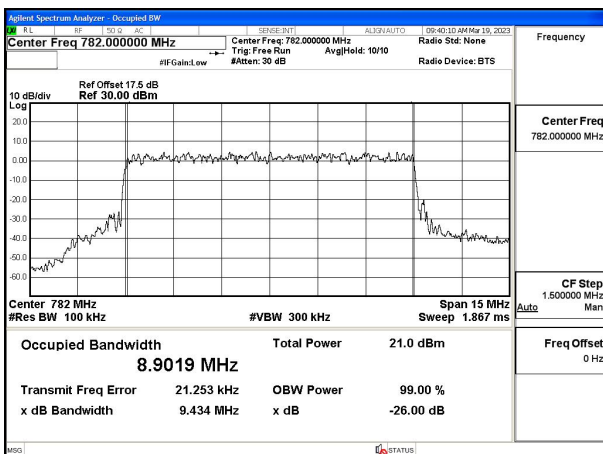


Fig.17

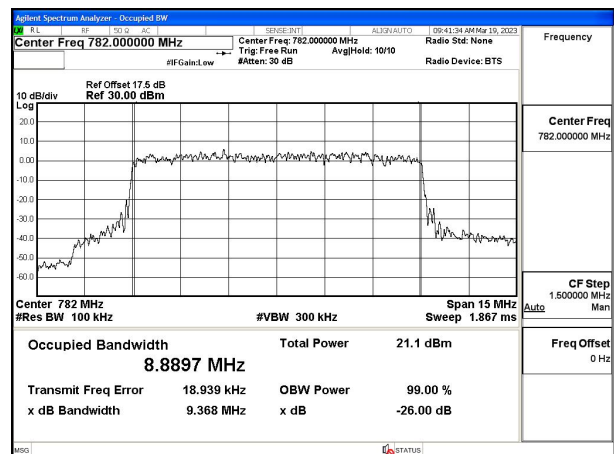


Fig.18

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

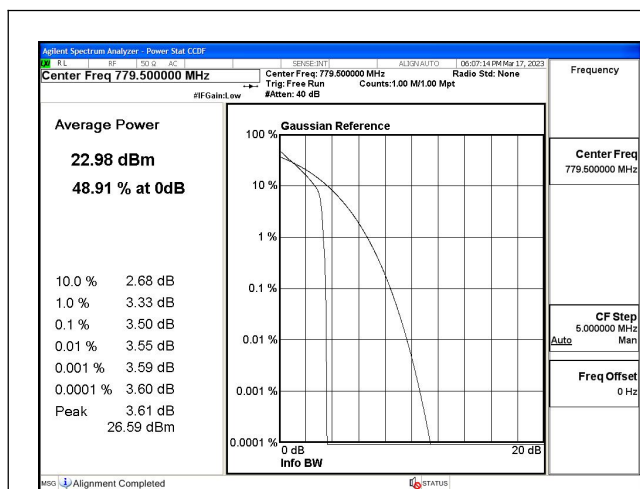


Fig.1

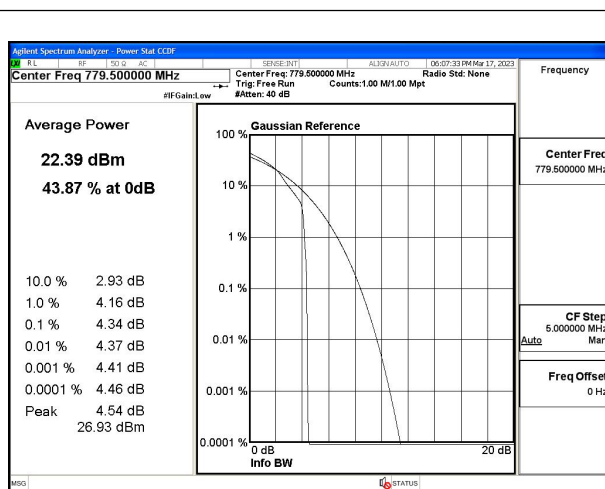


Fig.2

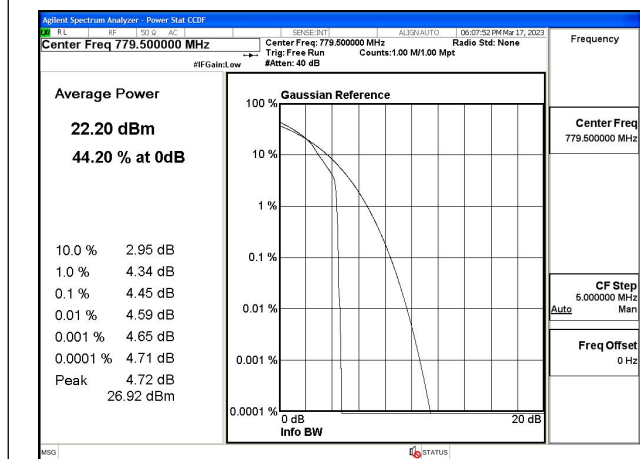


Fig.3

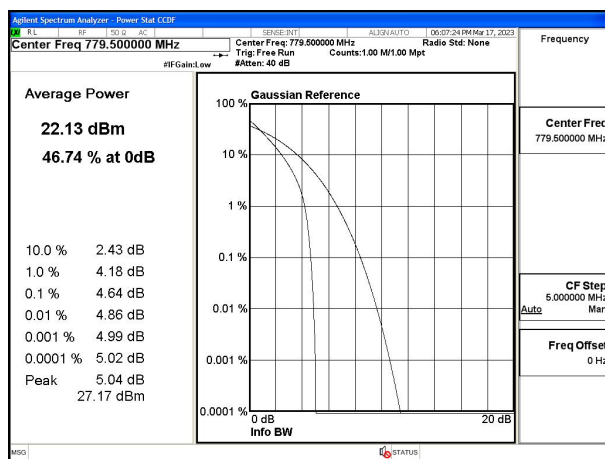


Fig.4