APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 28

1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	704.5	27225	3	1	0	23.08
QPSK	704.5	27225	3	1	8	23.26
QPSK	704.5	27225	3	1	14	23.25
QPSK	704.5	27225	3	8	0	22.42
QPSK	704.5	27225	3	8	4	22.41
QPSK	704.5	27225	3	8	7	22.48
QPSK	704.5	27225	3	15	0	22.58
QPSK	719.5	27375	3	1	0	23.48
QPSK	719.5	27375	3	1	8	23.56
QPSK	719.5	27375	3	1	14	23.51
QPSK	719.5	27375	3	8	0	22.31
QPSK	719.5	27375	3	8	4	22.16
QPSK	719.5	27375	3	8	7	22.43
QPSK	719.5	27375	3	15	0	22.49
QPSK	746.5	27645	3	1	0	23.42
QPSK	746.5	27645	3	1	8	23.63
QPSK	746.5	27645	3	1	14	23.56
QPSK	746.5	27645	3	8	0	22.70
QPSK	746.5	27645	3	8	4	22.59
QPSK	746.5	27645	3	8	7	22.50
QPSK	746.5	27645	3	15	0	22.40

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	704.5	27225	3	1	0	23.06
16QAM	704.5	27225	3	1	8	22.84
16QAM	704.5	27225	3	1	14	23.08
16QAM	704.5	27225	3	8	0	21.55
16QAM	704.5	27225	3	8	4	21.69
16QAM	704.5	27225	3	8	7	21.70
16QAM	704.5	27225	3	15	0	21.69
16QAM	719.5	27375	3	1	0	22.73
16QAM	719.5	27375	3	1	8	22.66
16QAM	719.5	27375	3	1	14	22.74
16QAM	719.5	27375	3	8	0	21.48
16QAM	719.5	27375	3	8	4	21.46
16QAM	719.5	27375	3	8	7	21.71
16QAM	719.5	27375	3	15	0	21.49
16QAM	746.5	27645	3	1	0	23.33
16QAM	746.5	27645	3	1	8	22.82
16QAM	746.5	27645	3	1	14	23.33

16QAM	746.5	27645	3	8	0	21.65
16QAM	746.5	27645	3	8	4	21.88
16QAM	746.5	27645	3	8	7	21.86
16QAM	746.5	27645	3	15	0	21.87
64QAM	704.5	27225	3	1	0	21.65
64QAM	704.5	27225	3	1	8	21.66
64QAM	704.5	27225	3	1	14	21.86
64QAM	704.5	27225	3	8	0	20.12
64QAM	704.5	27225	3	8	4	20.04
64QAM	704.5	27225	3	8	7	20.47
64QAM	704.5	27225	3	15	0	20.19
64QAM	719.5	27375	3	1	0	21.75
64QAM	719.5	27375	3	1	8	22.05
64QAM	719.5	27375	3	1	14	21.24
64QAM	719.5	27375	3	8	0	20.47
64QAM	719.5	27375	3	8	4	19.93
64QAM	719.5	27375	3	8	7	19.82
64QAM	719.5	27375	3	15	0	20.24
64QAM	746.5	27645	3	1	0	21.88
64QAM	746.5	27645	3	1	8	21.57
64QAM	746.5	27645	3	1	14	21.37
64QAM	746.5	27645	3	8	0	20.57
64QAM	746.5	27645	3	8	4	20.02
64QAM	746.5	27645	3	8	7	20.31
64QAM	746.5	27645	3	15	0	20.31

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	705.5	27235	5	1	0	23.62
QPSK	705.5	27235	5	1	12	23.46
QPSK	705.5	27235	5	1	24	23.47
QPSK	705.5	27235	5	12	0	22.59
QPSK	705.5	27235	5	12	7	22.43
QPSK	705.5	27235	5	12	13	22.55
QPSK	705.5	27235	5	25	0	22.48
QPSK	720.5	27385	5	1	0	23.06
QPSK	720.5	27385	5	1	12	23.42
QPSK	720.5	27385	5	1	24	23.45
QPSK	720.5	27385	5	12	0	22.22
QPSK	720.5	27385	5	12	7	22.57
QPSK	720.5	27385	5	12	13	22.25
QPSK	720.5	27385	5	25	0	22.35
QPSK	745.5	27635	5	1	0	23.50
QPSK	745.5	27635	5	1	12	23.46
QPSK	745.5	27635	5	1	24	23.57
QPSK	745.5	27635	5	12	0	22.39

QPSK	745.5	27635	5	12	7	22.43
QPSK	745.5	27635	5	12	13	22.51
QPSK	745.5	27635	5	25	0	22.46

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	705.5	27235	5	1	0	22.99
16QAM	705.5	27235	5	1	12	22.57
16QAM	705.5	27235	5	1	24	22.91
16QAM	705.5	27235	5	12	0	21.69
16QAM	705.5	27235	5	12	7	21.68
16QAM	705.5	27235	5	12	13	21.51
16QAM	705.5	27235	5	25	0	21.53
16QAM	720.5	27385	5	1	0	22.71
16QAM	720.5	27385	5	1	12	22.35
16QAM	720.5	27385	5	1	24	23.29
16QAM	720.5	27385	5	12	0	21.36
16QAM	720.5	27385	5	12	7	21.17
16QAM	720.5	27385	5	12	13	21.29
16QAM	720.5	27385	5	25	0	21.37
16QAM	745.5	27635	5	1	0	22.57
16QAM	745.5	27635	5	1	12	22.95
16QAM	745.5	27635	5	1	24	23.39
16QAM	745.5	27635	5	12	0	21.83
16QAM	745.5	27635	5	12	7	21.56
16QAM	745.5	27635	5	12	13	21.80
16QAM	745.5	27635	5	25	0	21.68
64QAM	705.5	27235	5	1	0	21.74
64QAM	705.5	27235	5	1	12	21.94
64QAM	705.5	27235	5	1	24	21.35
64QAM	705.5	27235	5	12	0	20.21
64QAM	705.5	27235	5	12	7	20.42
64QAM	705.5	27235	5	12	13	20.38
64QAM	705.5	27235	5	25	0	20.46
64QAM	720.5	27385	5	1	0	21.52
64QAM	720.5	27385	5	1	12	21.83
64QAM	720.5	27385	5	1	24	21.63
64QAM	720.5	27385	5	12	0	19.81
64QAM	720.5	27385	5	12	7	19.83
64QAM	720.5	27385	5	12	13	20.20
64QAM	720.5	27385	5	25	0	19.71
64QAM	745.5	27635	5	1	0	21.85
64QAM	745.5	27635	5	1	12	21.51
64QAM	745.5	27635	5	1	24	21.39
64QAM	745.5	27635	5	12	0	20.84
64QAM	745.5	27635	5	12	7	20.60

64QAM	745.5	27635	5	12	13	20.37
64QAM	745.5	27635	5	25	0	20.56

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	708	27260	10	1	0	23.73
QPSK	708	27260	10	1	25	23.52
QPSK	708	27260	10	1	49	23.48
QPSK	708	27260	10	25	0	22.50
QPSK	708	27260	10	25	12	22.49
QPSK	708	27260	10	25	25	22.46
QPSK	708	27260	10	50	0	22.38
QPSK	723	27410	10	1	0	23.33
QPSK	723	27410	10	1	25	23.20
QPSK	723	27410	10	1	49	23.23
QPSK	723	27410	10	25	0	22.38
QPSK	723	27410	10	25	12	22.18
QPSK	723	27410	10	25	25	22.17
QPSK	723	27410	10	50	0	22.16
QPSK	743	27610	10	1	0	23.44
QPSK	743	27610	10	1	25	23.52
QPSK	743	27610	10	1	49	23.62
QPSK	743	27610	10	25	0	22.59
QPSK	743	27610	10	25	12	22.51
QPSK	743	27610	10	25	25	22.49
QPSK	743	27610	10	50	0	22.45

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	708	27260	10	1	0	23.33
16QAM	708	27260	10	1	25	22.73
16QAM	708	27260	10	1	49	23.32
16QAM	708	27260	10	25	0	21.54
16QAM	708	27260	10	25	12	21.55
16QAM	708	27260	10	25	25	21.51
16QAM	708	27260	10	50	0	21.55
16QAM	723	27410	10	1	0	22.94
16QAM	723	27410	10	1	25	22.65
16QAM	723	27410	10	1	49	22.81
16QAM	723	27410	10	25	0	21.39
16QAM	723	27410	10	25	12	21.27
16QAM	723	27410	10	25	25	21.18
16QAM	723	27410	10	50	0	21.43
16QAM	743	27610	10	1	0	22.37
16QAM	743	27610	10	1	25	23.01
16QAM	743	27610	10	1	49	22.57

16QAM	743	27610	10	25	0	21.77
16QAM	743	27610	10	25	12	21.70
16QAM	743	27610	10	25	25	21.76
16QAM	743	27610	10	50	0	21.52
64QAM	708	27260	10	1	0	21.75
64QAM	708	27260	10	1	25	21.21
64QAM	708	27260	10	1	49	21.18
64QAM	708	27260	10	25	0	20.49
64QAM	708	27260	10	25	12	20.35
64QAM	708	27260	10	25	25	19.90
64QAM	708	27260	10	50	0	20.45
64QAM	723	27410	10	1	0	20.78
64QAM	723	27410	10	1	25	21.53
64QAM	723	27410	10	1	49	21.47
64QAM	723	27410	10	25	0	19.90
64QAM	723	27410	10	25	12	20.19
64QAM	723	27410	10	25	25	19.73
64QAM	723	27410	10	50	0	20.20
64QAM	743	27610	10	1	0	21.14
64QAM	743	27610	10	1	25	21.61
64QAM	743	27610	10	1	49	21.44
64QAM	743	27610	10	25	0	20.56
64QAM	743	27610	10	25	12	20.39
64QAM	743	27610	10	25	25	20.50
64QAM	743	27610	10	50	0	19.87

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	710.5	27285	15	1	0	23.92
QPSK	710.5	27285	15	1	37	23.60
QPSK	710.5	27285	15	1	74	23.69
QPSK	710.5	27285	15	36	0	22.44
QPSK	710.5	27285	15	36	29	22.41
QPSK	710.5	27285	15	36	30	22.49
QPSK	710.5	27285	15	75	0	22.55
QPSK	725.5	27435	15	1	0	23.69
QPSK	725.5	27435	15	1	37	23.57
QPSK	725.5	27435	15	1	74	23.49
QPSK	725.5	27435	15	36	0	22.27
QPSK	725.5	27435	15	36	29	22.29
QPSK	725.5	27435	15	36	30	22.31
QPSK	725.5	27435	15	75	0	22.25
QPSK	740.5	27585	15	1	0	23.34
QPSK	740.5	27585	15	1	37	23.65
QPSK	740.5	27585	15	1	74	23.57
QPSK	740.5	27585	15	36	0	22.24

QPSK	740.5	27585	15	36	29	22.54
QPSK	740.5	27585	15	36	30	22.50
QPSK	740.5	27585	15	75	0	22.43

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	710.5	27285	15	1	0	22.90
16QAM	710.5	27285	15	1	37	22.98
16QAM	710.5	27285	15	1	74	22.89
16QAM	710.5	27285	15	36	0	21.69
16QAM	710.5	27285	15	36	29	21.56
16QAM	710.5	27285	15	36	30	21.61
16QAM	710.5	27285	15	75	0	21.49
16QAM	725.5	27435	15	1	0	22.93
16QAM	725.5	27435	15	1	37	23.06
16QAM	725.5	27435	15	1	74	22.58
16QAM	725.5	27435	15	36	0	21.54
16QAM	725.5	27435	15	36	29	21.37
16QAM	725.5	27435	15	36	30	21.37
16QAM	725.5	27435	15	75	0	21.24
16QAM	740.5	27585	15	1	0	22.92
16QAM	740.5	27585	15	1	37	22.75
16QAM	740.5	27585	15	1	74	23.02
16QAM	740.5	27585	15	36	0	21.34
16QAM	740.5	27585	15	36	29	21.50
16QAM	740.5	27585	15	36	30	21.37
16QAM	740.5	27585	15	75	0	21.74
64QAM	710.5	27285	15	1	0	21.55
64QAM	710.5	27285	15	1	37	21.63
64QAM	710.5	27285	15	1	74	21.06
64QAM	710.5	27285	15	36	0	20.51
64QAM	710.5	27285	15	36	29	20.22
64QAM	710.5	27285	15	36	30	20.15
64QAM	710.5	27285	15	75	0	20.13
64QAM	725.5	27435	15	1	0	21.68
64QAM	725.5	27435	15	1	37	21.56
64QAM	725.5	27435	15	1	74	21.69
64QAM	725.5	27435	15	36	0	20.21
64QAM	725.5	27435	15	36	29	20.16
64QAM	725.5	27435	15	36	30	19.89
64QAM	725.5	27435	15	75	0	20.20
64QAM	740.5	27585	15	1	0	21.34
64QAM	740.5	27585	15	1	37	21.42
64QAM	740.5	27585	15	1	74	21.39
64QAM	740.5	27585	15	36	0	20.52
64QAM	740.5	27585	15	36	29	20.26

64QAM	740.5	27585	15	36	30	20.31
64QAM	740.5	27585	15	75	0	20.68

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	713	27310	20	1	0	23.76
QPSK	713	27310	20	1	49	23.81
QPSK	713	27310	20	1	99	23.47
QPSK	713	27310	20	50	0	22.42
QPSK	713	27310	20	50	24	22.66
QPSK	713	27310	20	50	50	22.28
QPSK	713	27310	20	100	0	22.32
QPSK	728	27460	20	1	0	23.37
QPSK	728	27460	20	1	49	23.12
QPSK	728	27460	20	1	99	23.37
QPSK	728	27460	20	50	0	21.96
QPSK	728	27460	20	50	24	22.21
QPSK	728	27460	20	50	50	22.19
QPSK	728	27460	20	100	0	22.27
QPSK	738	27560	20	1	0	23.33
QPSK	738	27560	20	1	49	23.46
QPSK	738	27560	20	1	99	23.55
QPSK	738	27560	20	50	0	22.39
QPSK	738	27560	20	50	24	22.20
QPSK	738	27560	20	50	50	22.36
QPSK	738	27560	20	100	0	22.22

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	713	27310	20	1	0	23.07
16QAM	713	27310	20	1	49	23.35
16QAM	713	27310	20	1	99	22.68
16QAM	713	27310	20	50	0	21.61
16QAM	713	27310	20	50	24	21.62
16QAM	713	27310	20	50	50	21.22
16QAM	713	27310	20	100	0	21.73
16QAM	728	27460	20	1	0	22.25
16QAM	728	27460	20	1	49	22.84
16QAM	728	27460	20	1	99	22.47
16QAM	728	27460	20	50	0	21.49
16QAM	728	27460	20	50	24	21.36
16QAM	728	27460	20	50	50	21.48
16QAM	728	27460	20	100	0	21.28
16QAM	738	27560	20	1	0	22.48
16QAM	738	27560	20	1	49	22.04
16QAM	738	27560	20	1	99	22.48

16QAM	738	27560	20	50	0	21.48
16QAM	738	27560	20	50	24	21.48
16QAM	738	27560	20	50	50	21.62
16QAM	738	27560	20	100	0	21.59
64QAM	713	27310	20	1	0	21.43
64QAM	713	27310	20	1	49	21.75
64QAM	713	27310	20	1	99	21.50
64QAM	713	27310	20	50	0	20.71
64QAM	713	27310	20	50	24	20.23
64QAM	713	27310	20	50	50	20.67
64QAM	713	27310	20	100	0	20.24
64QAM	728	27460	20	1	0	21.53
64QAM	728	27460	20	1	49	21.73
64QAM	728	27460	20	1	99	21.54
64QAM	728	27460	20	50	0	19.80
64QAM	728	27460	20	50	24	20.00
64QAM	728	27460	20	50	50	20.17
64QAM	728	27460	20	100	0	19.74
64QAM	738	27560	20	1	0	21.42
64QAM	738	27560	20	1	49	21.63
64QAM	738	27560	20	1	99	22.14
64QAM	738	27560	20	50	0	20.33
64QAM	738	27560	20	50	24	20.48
64QAM	738	27560	20	50	50	20.17
64QAM	738	27560	20	100	0	20.16

2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
28	QPSK	704.5	27225	3	15	0	2.670	Fig.1
28	QPSK	719.5	27375	3	15	0	2.680	Fig.2
28	QPSK	746.5	27645	3	15	0	2.670	Fig.3
28	QPSK	705.5	27235	5	25	0	4.460	Fig.4
28	QPSK	720.5	27385	5	25	0	4.470	Fig.5
28	QPSK	745.5	27635	5	25	0	4.460	Fig.6
28	QPSK	708	27260	10	50	0	8.910	Fig.7
28	QPSK	723	27410	10	50	0	8.910	Fig.8
28	QPSK	743	27610	10	50	0	8.900	Fig.9
28	QPSK	710.5	27285	15	75	0	13.390	Fig.10
28	QPSK	725.5	27435	15	75	0	13.340	Fig.11
28	QPSK	740.5	27585	15	75	0	13.350	Fig.12
28	QPSK	713	27310	20	100	0	17.870	Fig.13
28	QPSK	728	27460	20	100	0	17.870	Fig.14
28	QPSK	738	27560	20	100	0	17.810	Fig.15

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
28	16QAM	704.5	27225	3	15	0	2.670	Fig.16
28	16QAM	719.5	27375	3	15	0	2.680	Fig.17
28	16QAM	746.5	27645	3	15	0	2.680	Fig.18
28	16QAM	705.5	27235	5	25	0	4.450	Fig.19
28	16QAM	720.5	27385	5	25	0	4.450	Fig.20
28	16QAM	745.5	27635	5	25	0	4.450	Fig.21
28	16QAM	708	27260	10	50	0	8.890	Fig.22
28	16QAM	723	27410	10	50	0	8.890	Fig.23
28	16QAM	743	27610	10	50	0	8.890	Fig.24
28	16QAM	710.5	27285	15	75	0	13.370	Fig.25
28	16QAM	725.5	27435	15	75	0	13.340	Fig.26
28	16QAM	740.5	27585	15	75	0	13.370	Fig.27
28	16QAM	713	27310	20	100	0	17.840	Fig.28
28	16QAM	728	27460	20	100	0	17.860	Fig.29
28	16QAM	738	27560	20	100	0	17.800	Fig.30

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
28	64QAM	704.5	27225	3	15	0	2.680	Fig.31
28	64QAM	719.5	27375	3	15	0	2.670	Fig.32
28	64QAM	746.5	27645	3	15	0	2.670	Fig.33
28	64QAM	705.5	27235	5	25	0	4.460	Fig.34
28	64QAM	720.5	27385	5	25	0	4.450	Fig.35
28	64QAM	745.5	27635	5	25	0	4.460	Fig.36
28	64QAM	708	27260	10	50	0	8.910	Fig.37
28	64QAM	723	27410	10	50	0	8.920	Fig.38
28	64QAM	743	27610	10	50	0	8.930	Fig.39
28	64QAM	710.5	27285	15	75	0	13.380	Fig.40
28	64QAM	725.5	27435	15	75	0	13.350	Fig.41
28	64QAM	740.5	27585	15	75	0	13.360	Fig.42
28	64QAM	713	27310	20	100	0	17.850	Fig.43
28	64QAM	728	27460	20	100	0	17.850	Fig.44
28	64QAM	738	27560	20	100	0	17.810	Fig.45

Test Mode: QPSK

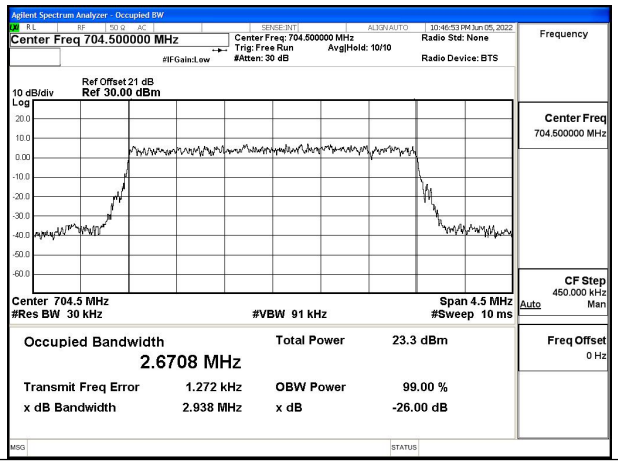

Fig.1

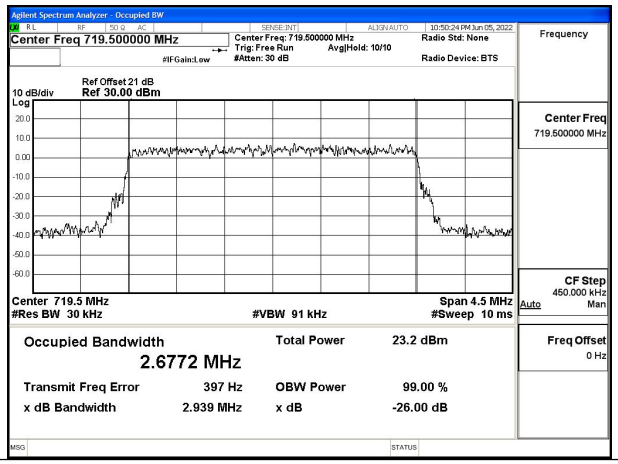

Fig.2

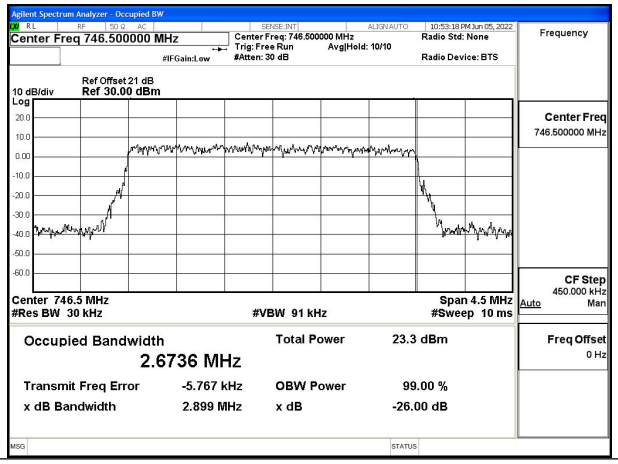

Fig.3

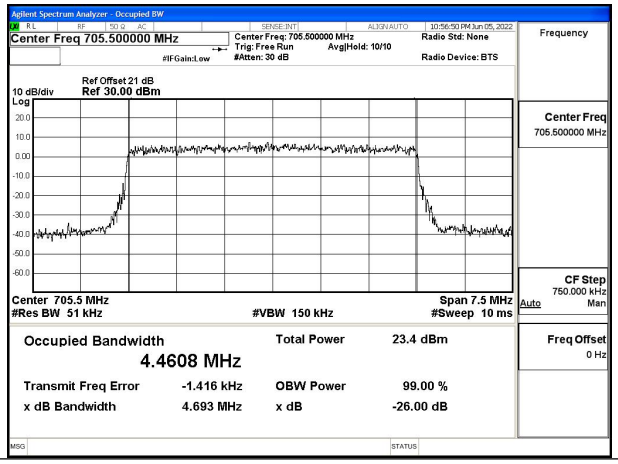

Fig.4

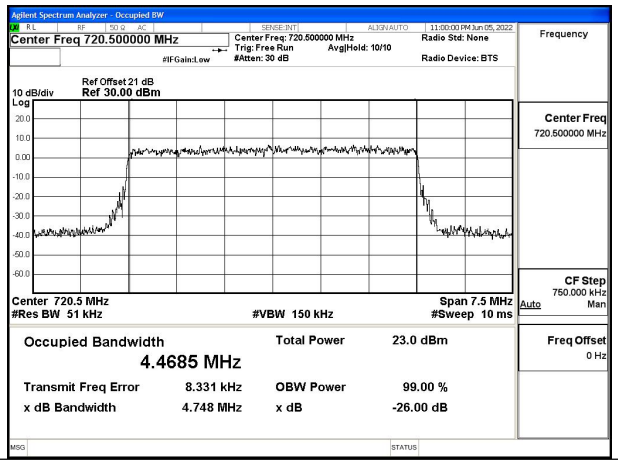

Fig.5

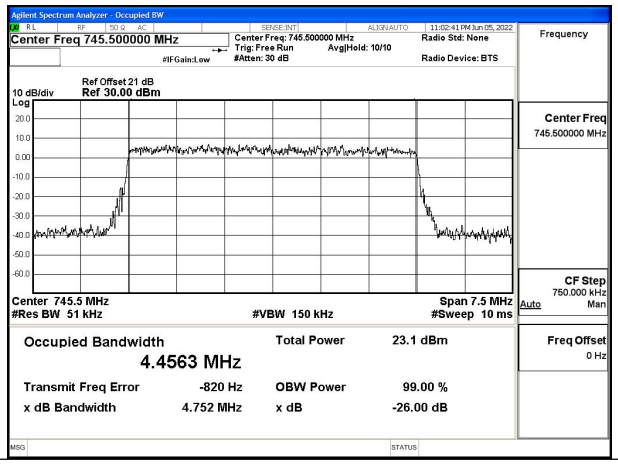

Fig.6

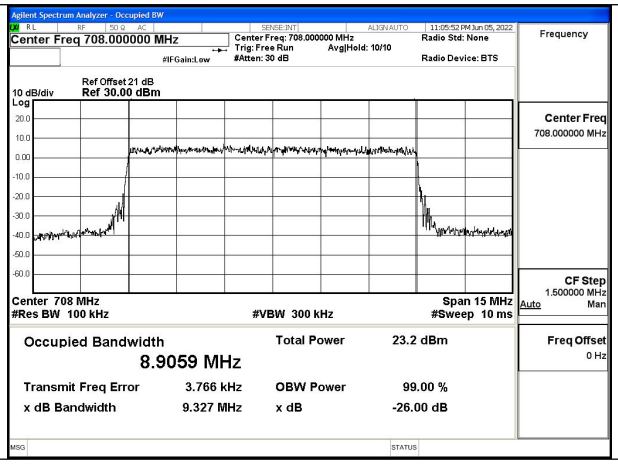

Fig.7

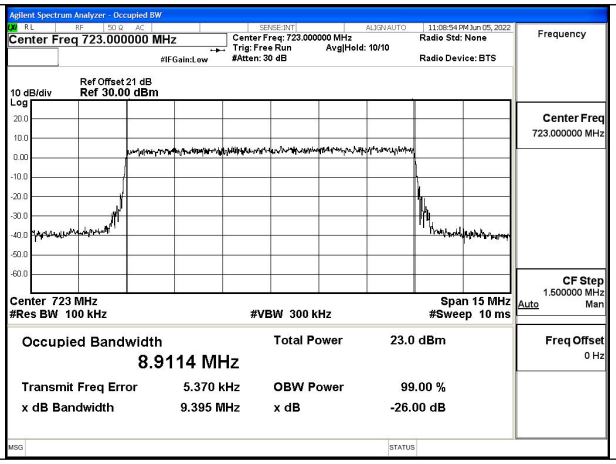

Fig.8

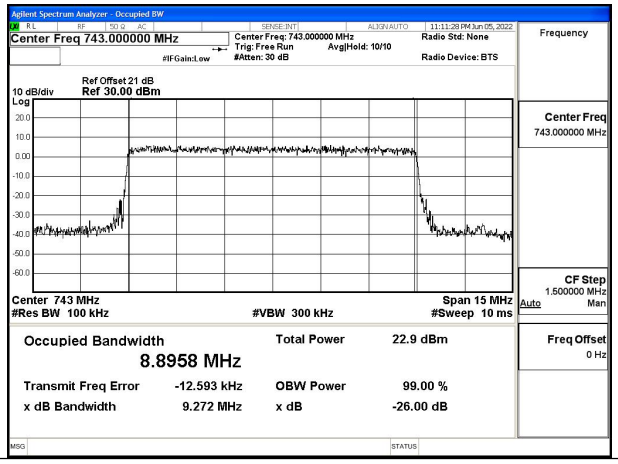

Fig.9

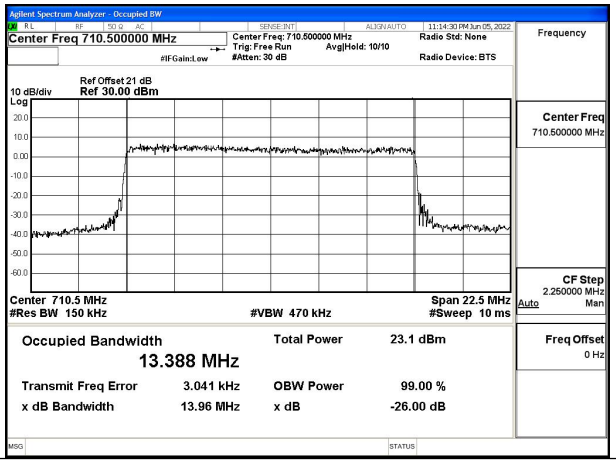

Fig.10

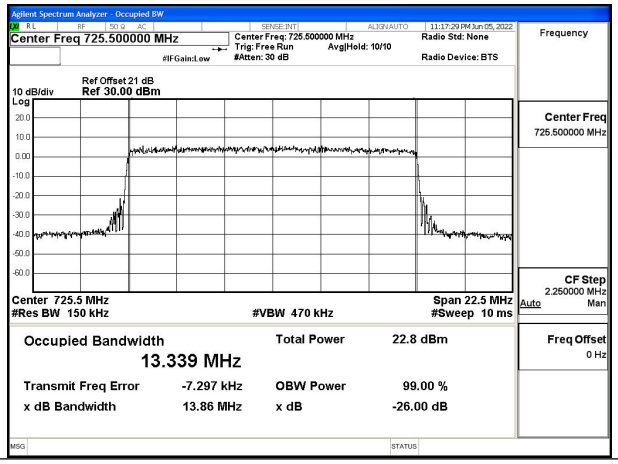

Fig.11

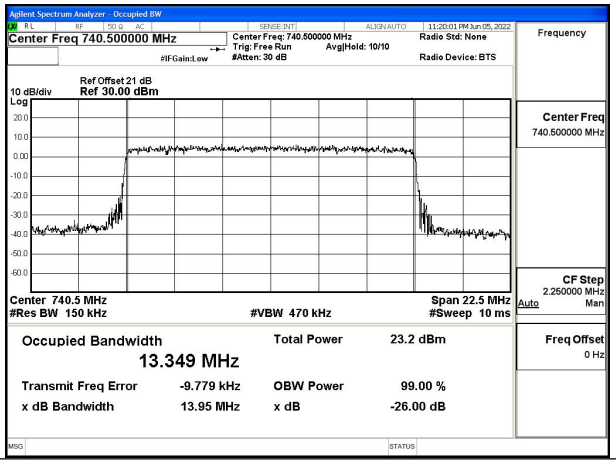

Fig.12

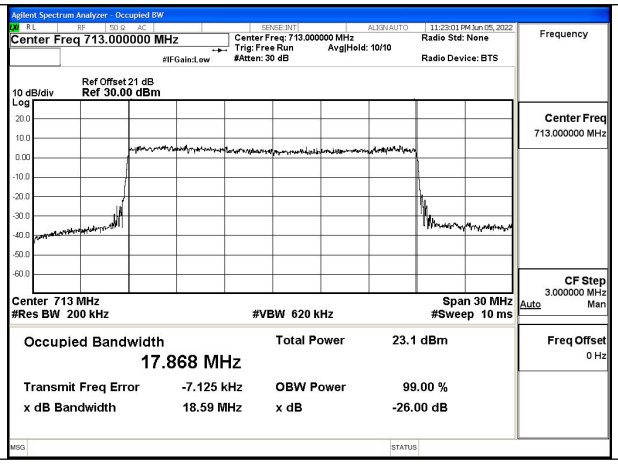

Fig.13

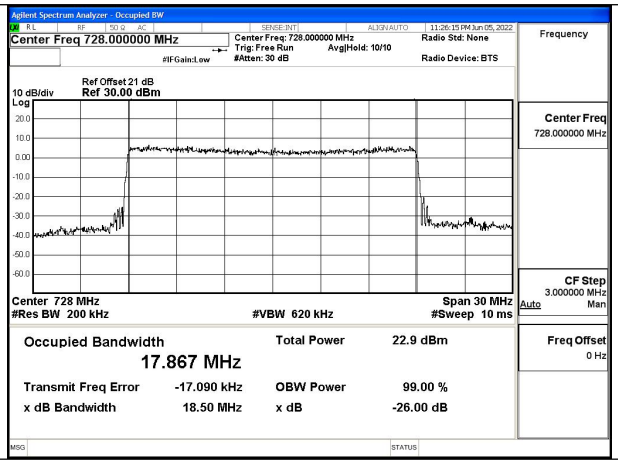

Fig.14

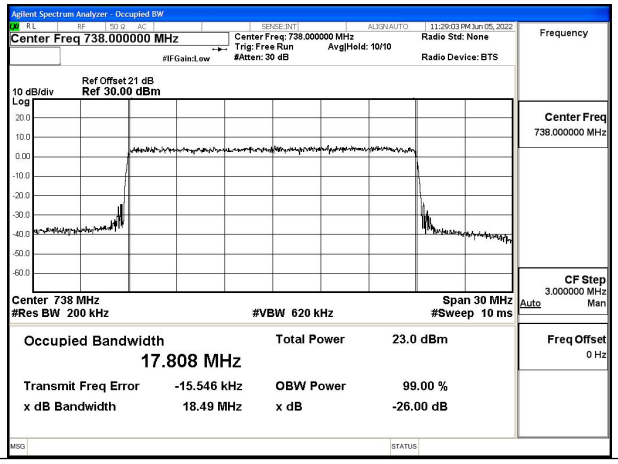

Fig.15

Test Mode: 16QAM

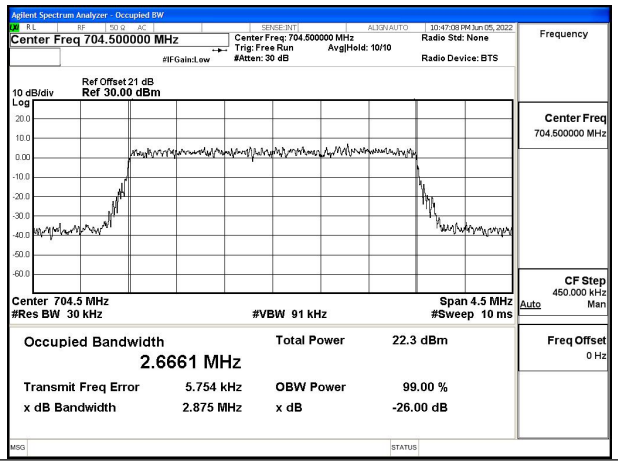

Fig.16

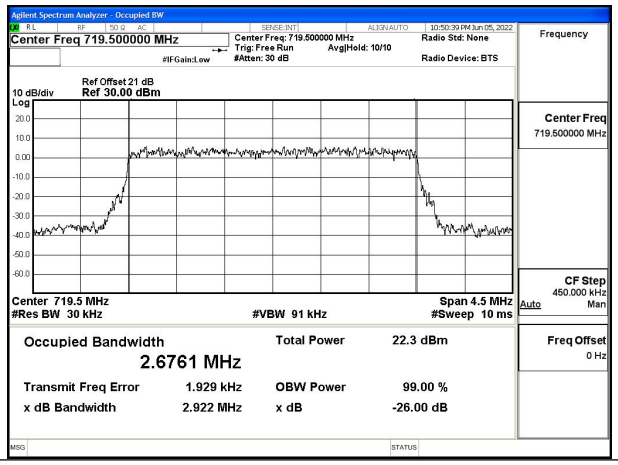

Fig.17

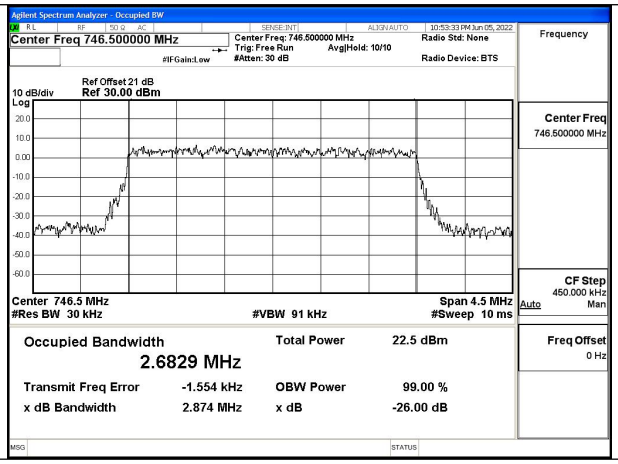

Fig.18

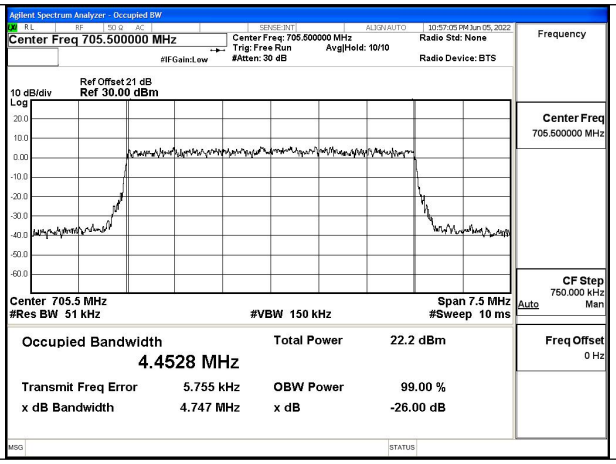

Fig.19

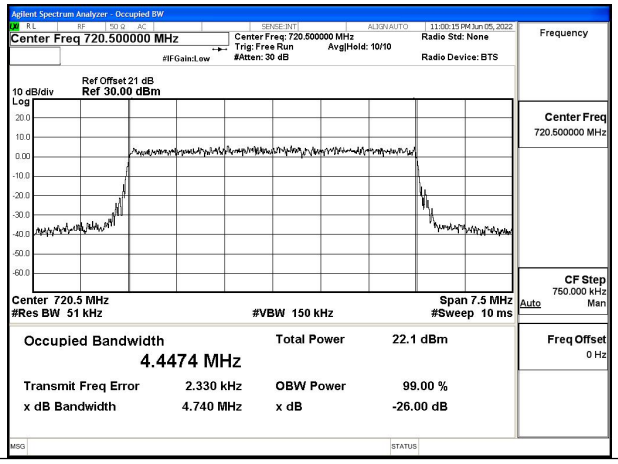

Fig.20

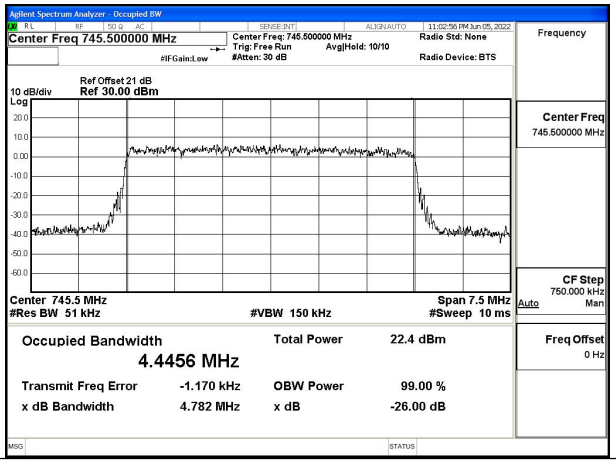

Fig.21

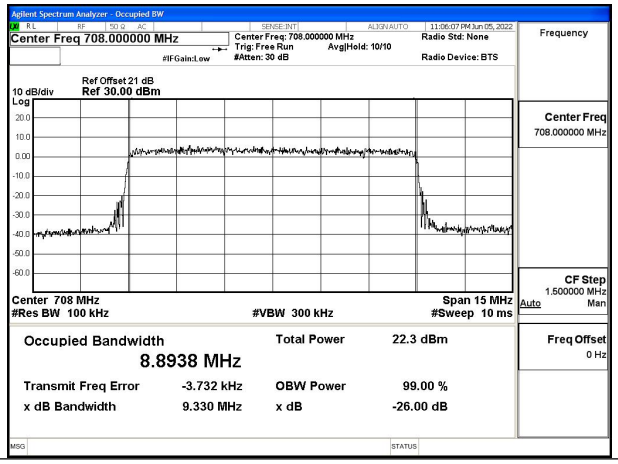

Fig.22

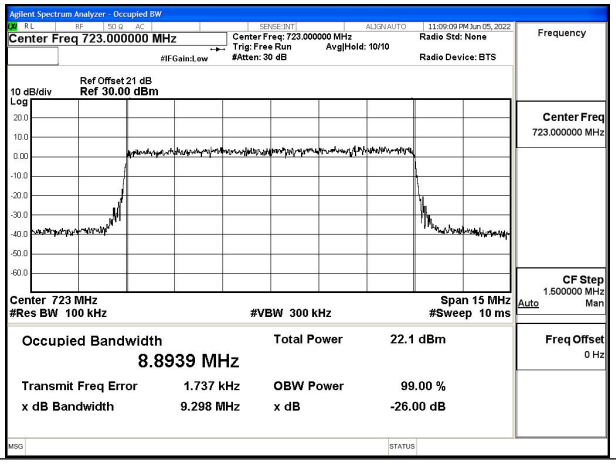

Fig.23

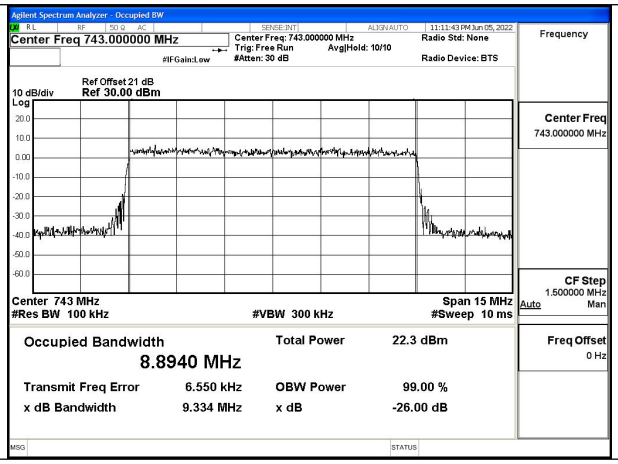

Fig.24

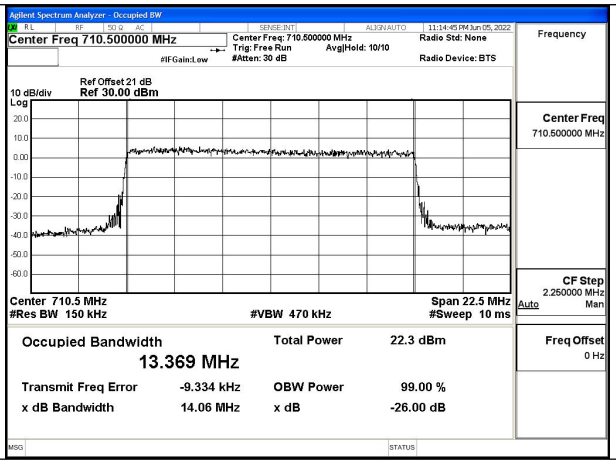

Fig.25

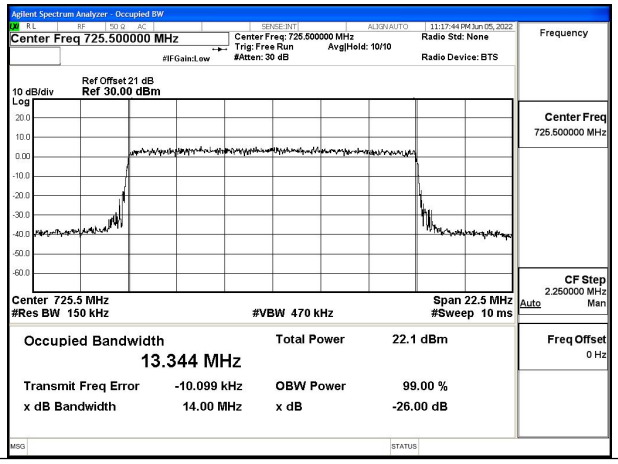

Fig.26

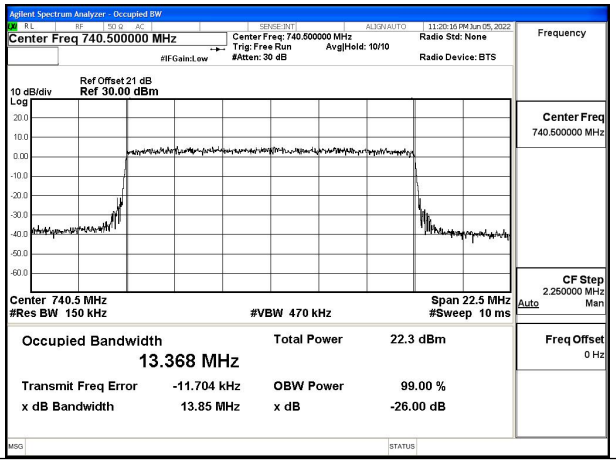

Fig.27

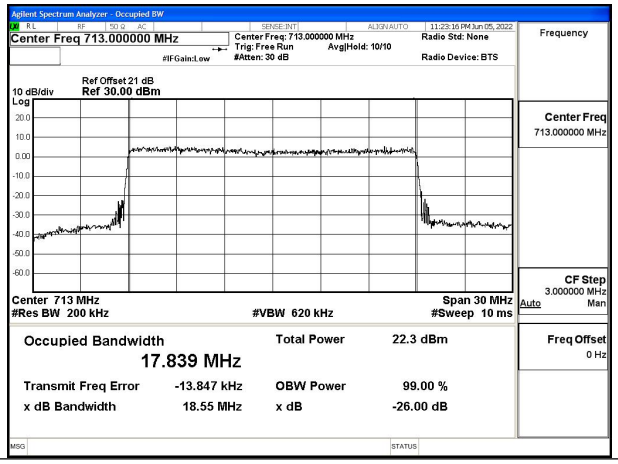

Fig.28

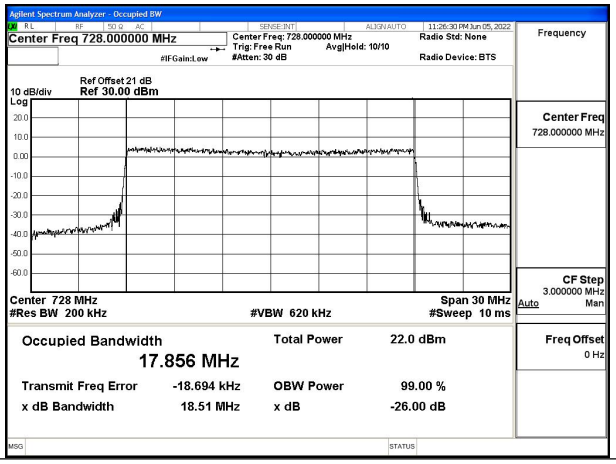

Fig.29

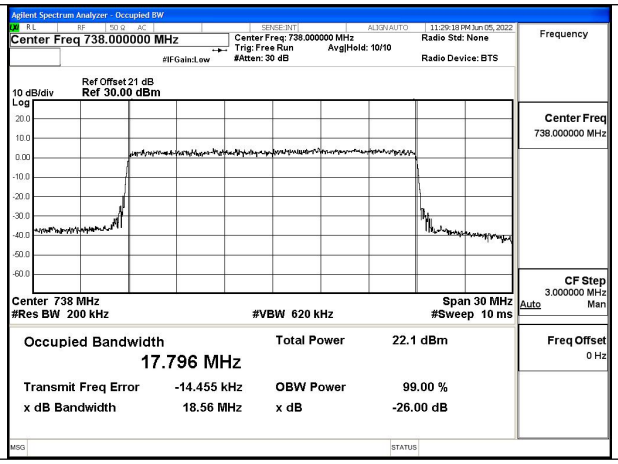

Fig.30

Test Mode: 64QAM

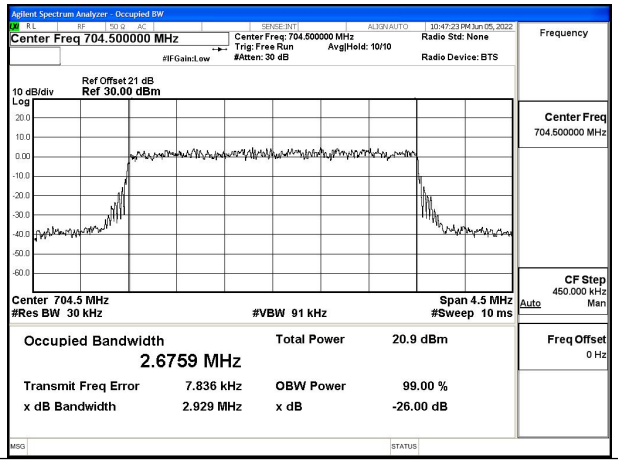

Fig.31

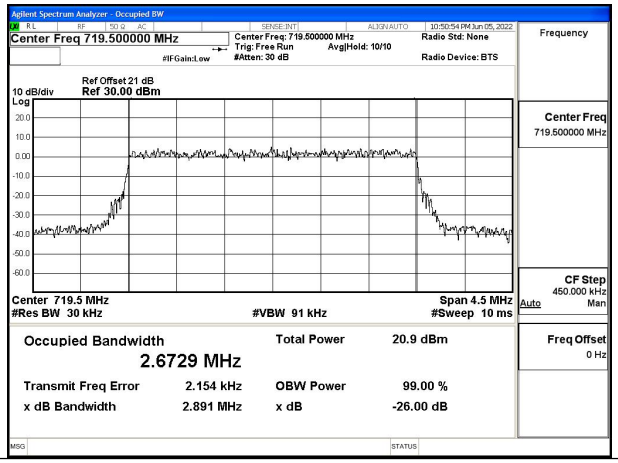

Fig.32

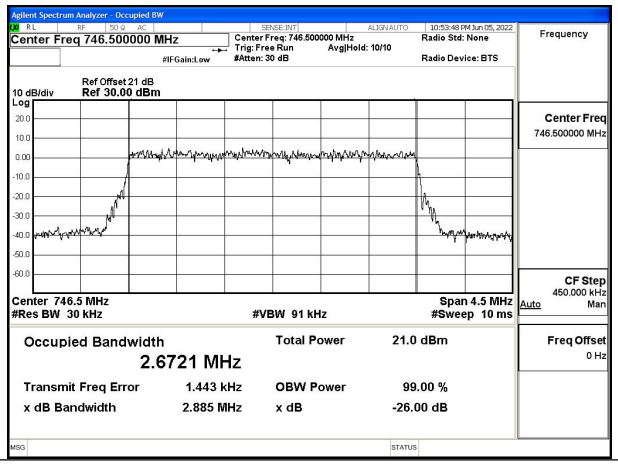

Fig.33

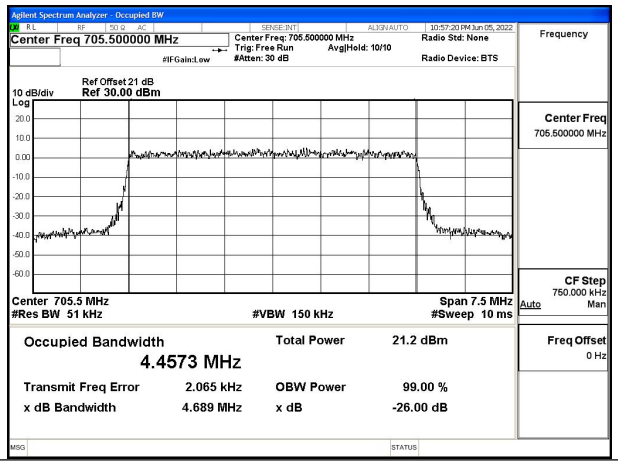

Fig.34

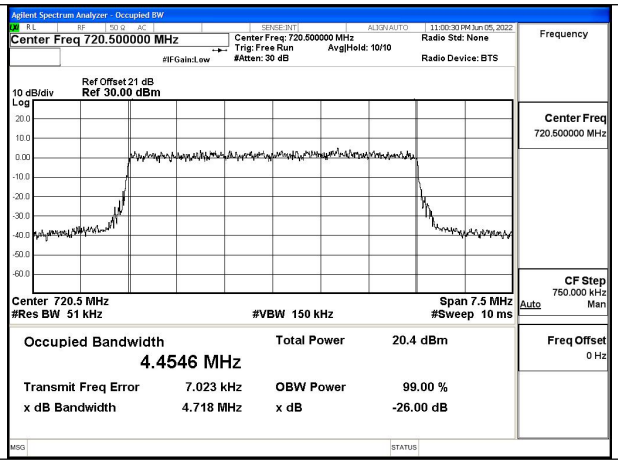

Fig.35

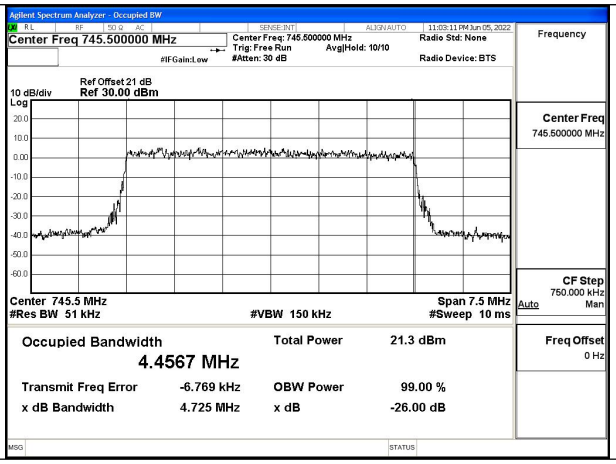

Fig.36

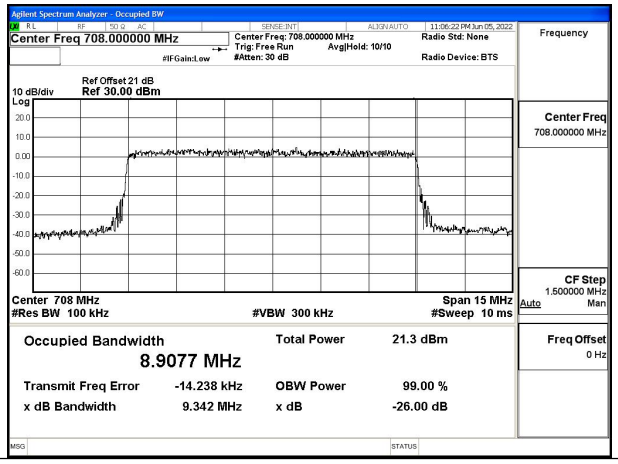

Fig.37

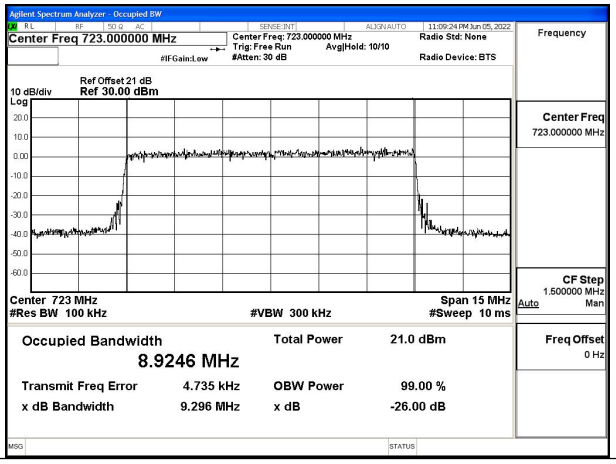

Fig.38

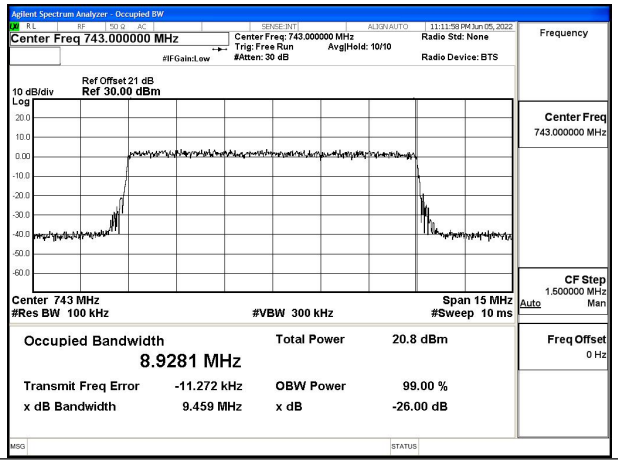

Fig.39

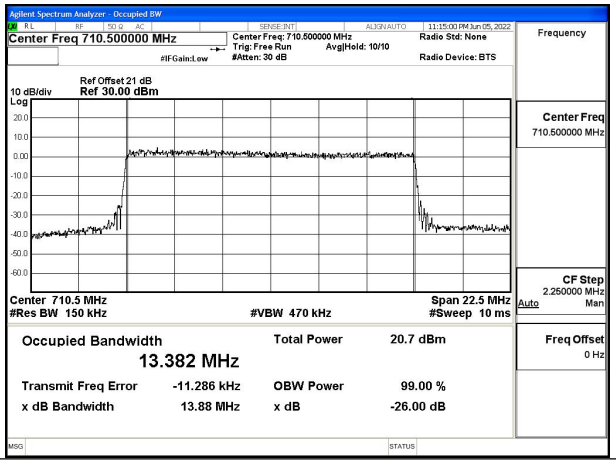

Fig.40

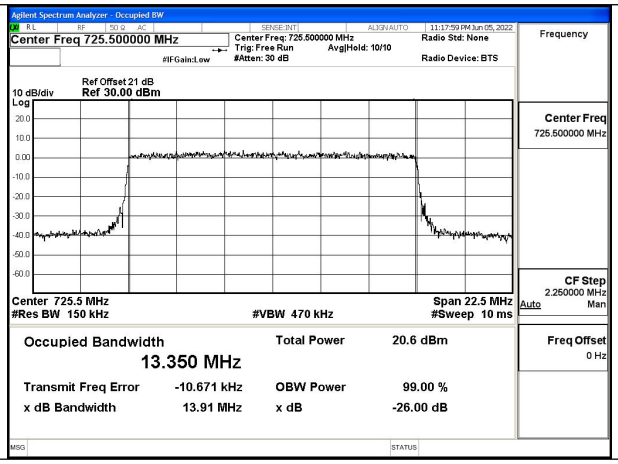

Fig.41

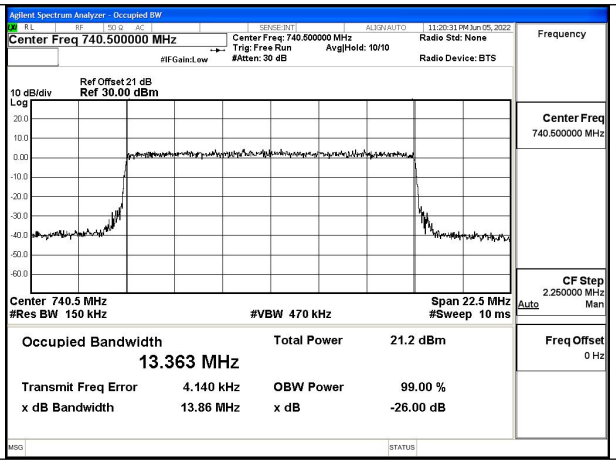

Fig.42

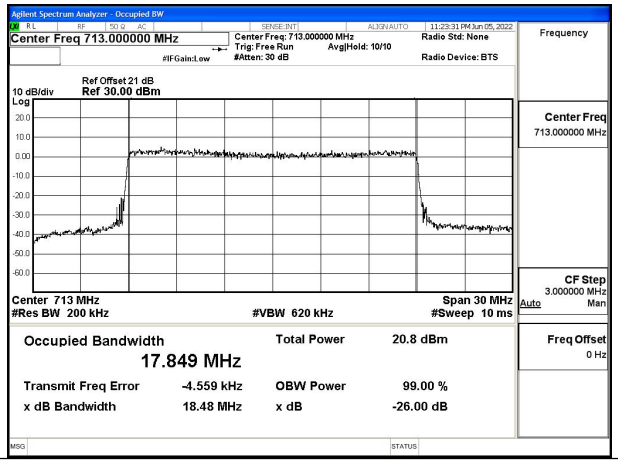

Fig.43

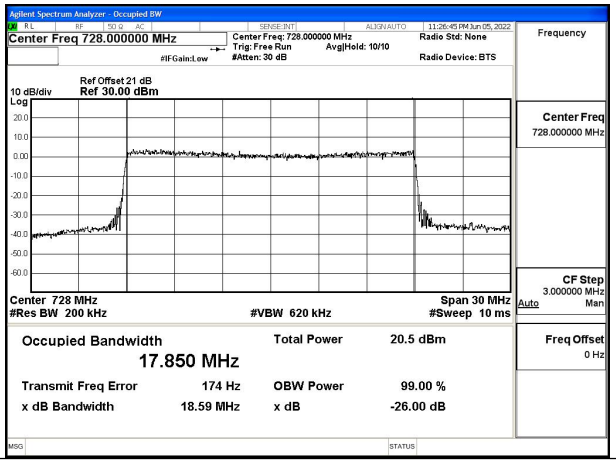

Fig.44

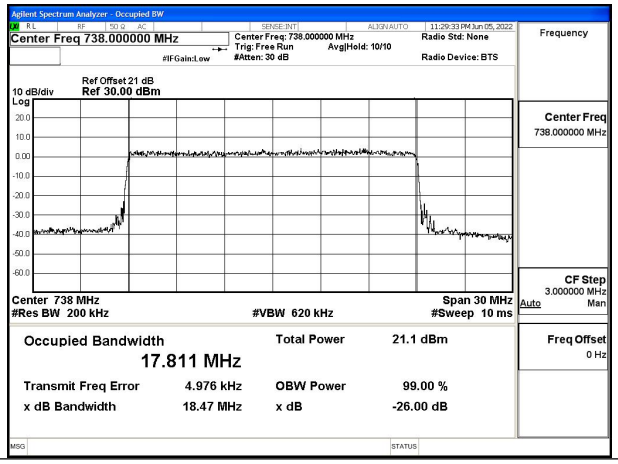

Fig.45