

## APPENDIX A – TEST DATA OF CONDUCTED EMISSION

### LTE Band 5

#### 1 RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	824.7	20407	1.4	1	0	22.93
QPSK	824.7	20407	1.4	1	3	23.21
QPSK	824.7	20407	1.4	1	5	22.88
QPSK	824.7	20407	1.4	3	0	23.07
QPSK	824.7	20407	1.4	3	1	23.11
QPSK	824.7	20407	1.4	3	3	22.95
QPSK	824.7	20407	1.4	6	0	22.06
QPSK	836.5	20525	1.4	1	0	22.86
QPSK	836.5	20525	1.4	1	3	23.02
QPSK	836.5	20525	1.4	1	5	22.99
QPSK	836.5	20525	1.4	3	0	22.88
QPSK	836.5	20525	1.4	3	1	22.93
QPSK	836.5	20525	1.4	3	3	22.82
QPSK	836.5	20525	1.4	6	0	21.95
QPSK	848.3	20643	1.4	1	0	22.83
QPSK	848.3	20643	1.4	1	3	22.89
QPSK	848.3	20643	1.4	1	5	22.75
QPSK	848.3	20643	1.4	3	0	22.79
QPSK	848.3	20643	1.4	3	1	22.81
QPSK	848.3	20643	1.4	3	3	22.79
QPSK	848.3	20643	1.4	6	0	21.96

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	21.84
16QAM	824.7	20407	1.4	1	3	22.28
16QAM	824.7	20407	1.4	1	5	22.36
16QAM	824.7	20407	1.4	3	0	22.05
16QAM	824.7	20407	1.4	3	1	21.94
16QAM	824.7	20407	1.4	3	3	21.90
16QAM	824.7	20407	1.4	6	0	21.16
16QAM	836.5	20525	1.4	1	0	22.21
16QAM	836.5	20525	1.4	1	3	22.02
16QAM	836.5	20525	1.4	1	5	22.07
16QAM	836.5	20525	1.4	3	0	22.04
16QAM	836.5	20525	1.4	3	1	21.96
16QAM	836.5	20525	1.4	3	3	22.02
16QAM	836.5	20525	1.4	6	0	21.01
16QAM	848.3	20643	1.4	1	0	21.94
16QAM	848.3	20643	1.4	1	3	22.12
16QAM	848.3	20643	1.4	1	5	22.31
16QAM	848.3	20643	1.4	3	0	22.00
16QAM	848.3	20643	1.4	3	1	21.97
16QAM	848.3	20643	1.4	3	3	21.86
16QAM	848.3	20643	1.4	6	0	21.02
64QAM	824.7	20407	1.4	1	0	22.47
64QAM	824.7	20407	1.4	1	3	22.09
64QAM	824.7	20407	1.4	1	5	22.23
64QAM	824.7	20407	1.4	3	0	21.89
64QAM	824.7	20407	1.4	3	1	22.12
64QAM	824.7	20407	1.4	3	3	21.88
64QAM	824.7	20407	1.4	6	0	21.24
64QAM	836.5	20525	1.4	1	0	22.24
64QAM	836.5	20525	1.4	1	3	22.55
64QAM	836.5	20525	1.4	1	5	22.18
64QAM	836.5	20525	1.4	3	0	22.04
64QAM	836.5	20525	1.4	3	1	22.18
64QAM	836.5	20525	1.4	3	3	21.87
64QAM	836.5	20525	1.4	6	0	20.65
64QAM	848.3	20643	1.4	1	0	21.90
64QAM	848.3	20643	1.4	1	3	22.23
64QAM	848.3	20643	1.4	1	5	22.22
64QAM	848.3	20643	1.4	3	0	21.90
64QAM	848.3	20643	1.4	3	1	22.02
64QAM	848.3	20643	1.4	3	3	21.53
64QAM	848.3	20643	1.4	6	0	20.87

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.12
QPSK	825.5	20415	3	1	8	22.95
QPSK	825.5	20415	3	1	14	22.93
QPSK	825.5	20415	3	8	0	22.09
QPSK	825.5	20415	3	8	4	22.06
QPSK	825.5	20415	3	8	7	22.13
QPSK	825.5	20415	3	15	0	22.04
QPSK	836.5	20525	3	1	0	22.93
QPSK	836.5	20525	3	1	8	23.05
QPSK	836.5	20525	3	1	14	23.00
QPSK	836.5	20525	3	8	0	21.91
QPSK	836.5	20525	3	8	4	22.09
QPSK	836.5	20525	3	8	7	21.97
QPSK	836.5	20525	3	15	0	21.87
QPSK	847.5	20635	3	1	0	23.05
QPSK	847.5	20635	3	1	8	22.90
QPSK	847.5	20635	3	1	14	22.97
QPSK	847.5	20635	3	8	0	22.01
QPSK	847.5	20635	3	8	4	22.02
QPSK	847.5	20635	3	8	7	21.96
QPSK	847.5	20635	3	15	0	22.05

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	22.27
16QAM	825.5	20415	3	1	8	22.47
16QAM	825.5	20415	3	1	14	21.99
16QAM	825.5	20415	3	8	0	20.98
16QAM	825.5	20415	3	8	4	21.12
16QAM	825.5	20415	3	8	7	21.07
16QAM	825.5	20415	3	15	0	21.17
16QAM	836.5	20525	3	1	0	22.16
16QAM	836.5	20525	3	1	8	22.31
16QAM	836.5	20525	3	1	14	22.22
16QAM	836.5	20525	3	8	0	20.82
16QAM	836.5	20525	3	8	4	21.18
16QAM	836.5	20525	3	8	7	21.08
16QAM	836.5	20525	3	15	0	21.02
16QAM	847.5	20635	3	1	0	22.49
16QAM	847.5	20635	3	1	8	22.20
16QAM	847.5	20635	3	1	14	22.48
16QAM	847.5	20635	3	8	0	21.03
16QAM	847.5	20635	3	8	4	21.09
16QAM	847.5	20635	3	8	7	20.91
16QAM	847.5	20635	3	15	0	21.10
64QAM	825.5	20415	3	1	0	22.15
64QAM	825.5	20415	3	1	8	22.09
64QAM	825.5	20415	3	1	14	22.62
64QAM	825.5	20415	3	8	0	21.15
64QAM	825.5	20415	3	8	4	21.18
64QAM	825.5	20415	3	8	7	21.01
64QAM	825.5	20415	3	15	0	21.01
64QAM	836.5	20525	3	1	0	21.94
64QAM	836.5	20525	3	1	8	22.65
64QAM	836.5	20525	3	1	14	22.62
64QAM	836.5	20525	3	8	0	20.86
64QAM	836.5	20525	3	8	4	20.93
64QAM	836.5	20525	3	8	7	21.05
64QAM	836.5	20525	3	15	0	20.91
64QAM	847.5	20635	3	1	0	22.26
64QAM	847.5	20635	3	1	8	22.55
64QAM	847.5	20635	3	1	14	22.37
64QAM	847.5	20635	3	8	0	20.98
64QAM	847.5	20635	3	8	4	21.02
64QAM	847.5	20635	3	8	7	21.15
64QAM	847.5	20635	3	15	0	20.99

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.01
QPSK	826.5	20425	5	1	12	23.12
QPSK	826.5	20425	5	1	24	22.90
QPSK	826.5	20425	5	12	0	22.00
QPSK	826.5	20425	5	12	7	22.08
QPSK	826.5	20425	5	12	13	21.94
QPSK	826.5	20425	5	25	0	21.97
QPSK	836.5	20525	5	1	0	23.13
QPSK	836.5	20525	5	1	12	23.34
QPSK	836.5	20525	5	1	24	23.01
QPSK	836.5	20525	5	12	0	21.98
QPSK	836.5	20525	5	12	7	22.06
QPSK	836.5	20525	5	12	13	21.86
QPSK	836.5	20525	5	25	0	22.01
QPSK	846.5	20625	5	1	0	22.89
QPSK	846.5	20625	5	1	12	23.06
QPSK	846.5	20625	5	1	24	22.78
QPSK	846.5	20625	5	12	0	21.88
QPSK	846.5	20625	5	12	7	21.92
QPSK	846.5	20625	5	12	13	22.01
QPSK	846.5	20625	5	25	0	21.95

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	22.56
16QAM	826.5	20425	5	1	12	22.05
16QAM	826.5	20425	5	1	24	22.23
16QAM	826.5	20425	5	12	0	21.14
16QAM	826.5	20425	5	12	7	21.21
16QAM	826.5	20425	5	12	13	21.06
16QAM	826.5	20425	5	25	0	21.19
16QAM	836.5	20525	5	1	0	22.48
16QAM	836.5	20525	5	1	12	22.61
16QAM	836.5	20525	5	1	24	22.58
16QAM	836.5	20525	5	12	0	21.09
16QAM	836.5	20525	5	12	7	21.15
16QAM	836.5	20525	5	12	13	21.05
16QAM	836.5	20525	5	25	0	20.99
16QAM	846.5	20625	5	1	0	22.02
16QAM	846.5	20625	5	1	12	22.24
16QAM	846.5	20625	5	1	24	22.25
16QAM	846.5	20625	5	12	0	21.10
16QAM	846.5	20625	5	12	7	21.03
16QAM	846.5	20625	5	12	13	21.15
16QAM	846.5	20625	5	25	0	21.10
64QAM	826.5	20425	5	1	0	21.99
64QAM	826.5	20425	5	1	12	22.30
64QAM	826.5	20425	5	1	24	22.24
64QAM	826.5	20425	5	12	0	21.12
64QAM	826.5	20425	5	12	7	21.16
64QAM	826.5	20425	5	12	13	21.20
64QAM	826.5	20425	5	25	0	21.03
64QAM	836.5	20525	5	1	0	22.22
64QAM	836.5	20525	5	1	12	22.42
64QAM	836.5	20525	5	1	24	22.17
64QAM	836.5	20525	5	12	0	21.08
64QAM	836.5	20525	5	12	7	21.16
64QAM	836.5	20525	5	12	13	21.19
64QAM	836.5	20525	5	25	0	20.91
64QAM	846.5	20625	5	1	0	21.99
64QAM	846.5	20625	5	1	12	22.83
64QAM	846.5	20625	5	1	24	22.22
64QAM	846.5	20625	5	12	0	20.90
64QAM	846.5	20625	5	12	7	21.07
64QAM	846.5	20625	5	12	13	21.01
64QAM	846.5	20625	5	25	0	20.77

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.05
QPSK	829	20450	10	1	25	22.87
QPSK	829	20450	10	1	49	22.78
QPSK	829	20450	10	25	0	22.05
QPSK	829	20450	10	25	12	22.15
QPSK	829	20450	10	25	25	22.04
QPSK	829	20450	10	50	0	22.03
QPSK	836.5	20525	10	1	0	23.06
QPSK	836.5	20525	10	1	25	22.89
QPSK	836.5	20525	10	1	49	22.72
QPSK	836.5	20525	10	25	0	22.07
QPSK	836.5	20525	10	25	12	21.92
QPSK	836.5	20525	10	25	25	22.08
QPSK	836.5	20525	10	50	0	22.04
QPSK	844	20600	10	1	0	22.98
QPSK	844	20600	10	1	25	23.04
QPSK	844	20600	10	1	49	22.66
QPSK	844	20600	10	25	0	22.00
QPSK	844	20600	10	25	12	22.02
QPSK	844	20600	10	25	25	22.02
QPSK	844	20600	10	50	0	21.96

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	22.34
16QAM	829	20450	10	1	25	22.37
16QAM	829	20450	10	1	49	22.24
16QAM	829	20450	10	25	0	21.07
16QAM	829	20450	10	25	12	21.24
16QAM	829	20450	10	25	25	21.04
16QAM	829	20450	10	50	0	21.04
16QAM	836.5	20525	10	1	0	22.56
16QAM	836.5	20525	10	1	25	22.48
16QAM	836.5	20525	10	1	49	21.93
16QAM	836.5	20525	10	25	0	21.11
16QAM	836.5	20525	10	25	12	21.08
16QAM	836.5	20525	10	25	25	21.07
16QAM	836.5	20525	10	50	0	21.03
16QAM	844	20600	10	1	0	22.37
16QAM	844	20600	10	1	25	22.03
16QAM	844	20600	10	1	49	22.01
16QAM	844	20600	10	25	0	21.03
16QAM	844	20600	10	25	12	21.06
16QAM	844	20600	10	25	25	21.02
16QAM	844	20600	10	50	0	21.08
64QAM	829	20450	10	1	0	21.54
64QAM	829	20450	10	1	25	21.01
64QAM	829	20450	10	1	49	20.96
64QAM	829	20450	10	25	0	20.08
64QAM	829	20450	10	25	12	20.20
64QAM	829	20450	10	25	25	20.19
64QAM	829	20450	10	50	0	20.26
64QAM	836.5	20525	10	1	0	21.12
64QAM	836.5	20525	10	1	25	20.99
64QAM	836.5	20525	10	1	49	21.44
64QAM	836.5	20525	10	25	0	20.11
64QAM	836.5	20525	10	25	12	20.14
64QAM	836.5	20525	10	25	25	20.00
64QAM	836.5	20525	10	50	0	20.10
64QAM	844	20600	10	1	0	20.86
64QAM	844	20600	10	1	25	21.37
64QAM	844	20600	10	1	49	20.88
64QAM	844	20600	10	25	0	19.99
64QAM	844	20600	10	25	12	20.10
64QAM	844	20600	10	25	25	20.22
64QAM	844	20600	10	50	0	20.07



## 2 Occupied Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
5	QPSK	824.7	20407	1.4	6	0	1.08	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.07	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.07	Fig.3
5	QPSK	825.5	20415	3	15	0	2.67	Fig.4
5	QPSK	836.5	20525	3	15	0	2.67	Fig.5
5	QPSK	847.5	20635	3	15	0	2.67	Fig.6
5	QPSK	826.5	20425	5	25	0	4.46	Fig.7
5	QPSK	836.5	20525	5	25	0	4.47	Fig.8
5	QPSK	846.5	20625	5	25	0	4.46	Fig.9
5	QPSK	829	20450	10	50	0	8.91	Fig.10
5	QPSK	836.5	20525	10	50	0	8.92	Fig.11
5	QPSK	844	20600	10	50	0	8.89	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
5	16QAM	824.7	20407	1.4	6	0	1.08	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.07	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.08	Fig.15
5	16QAM	825.5	20415	3	15	0	2.68	Fig.16
5	16QAM	836.5	20525	3	15	0	2.67	Fig.17
5	16QAM	847.5	20635	3	15	0	2.69	Fig.18
5	16QAM	826.5	20425	5	25	0	4.45	Fig.19
5	16QAM	836.5	20525	5	25	0	4.45	Fig.20
5	16QAM	846.5	20625	5	25	0	4.47	Fig.21
5	16QAM	829	20450	10	50	0	8.91	Fig.22
5	16QAM	836.5	20525	10	50	0	8.90	Fig.23
5	16QAM	844	20600	10	50	0	8.90	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)	
5	64QAM	824.7	20407	1.4	6	0	1.08	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.08	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.08	Fig.27
5	64QAM	825.5	20415	3	15	0	2.67	Fig.28
5	64QAM	836.5	20525	3	15	0	2.68	Fig.29
5	64QAM	847.5	20635	3	15	0	2.68	Fig.30
5	64QAM	826.5	20425	5	25	0	4.44	Fig.31
5	64QAM	836.5	20525	5	25	0	4.45	Fig.32
5	64QAM	846.5	20625	5	25	0	4.46	Fig.33
5	64QAM	829	20450	10	50	0	8.92	Fig.34
5	64QAM	836.5	20525	10	50	0	8.92	Fig.35
5	64QAM	844	20600	10	50	0	8.91	Fig.36

Test Mode: QPSK

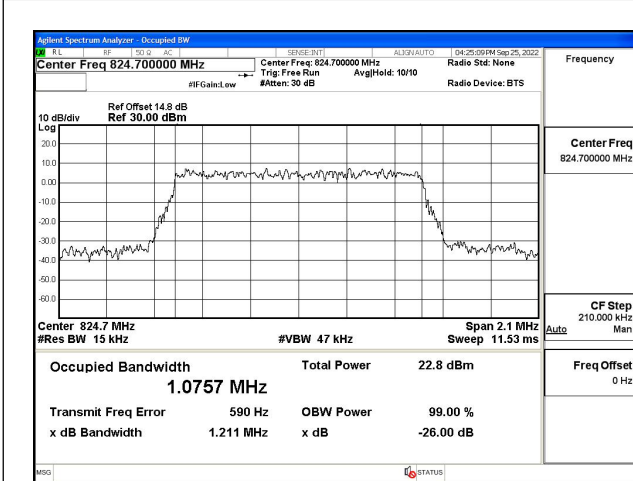


Fig.1

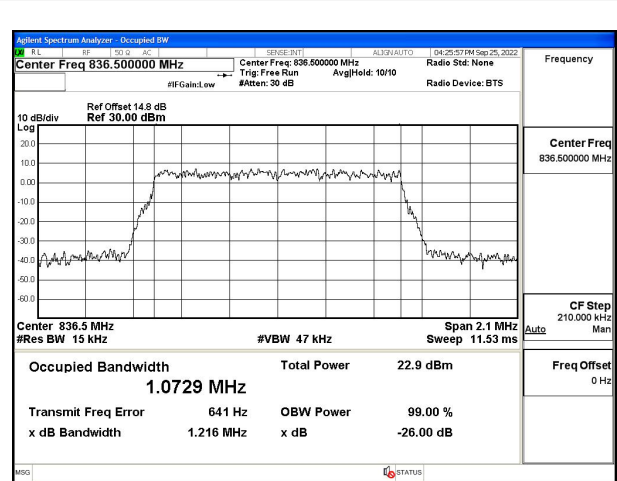


Fig.2

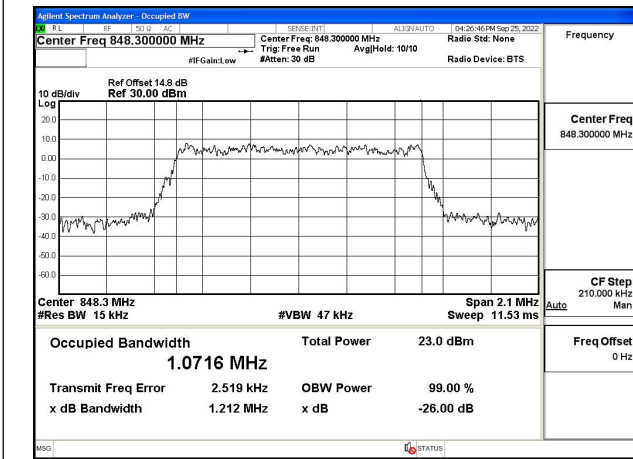


Fig.3

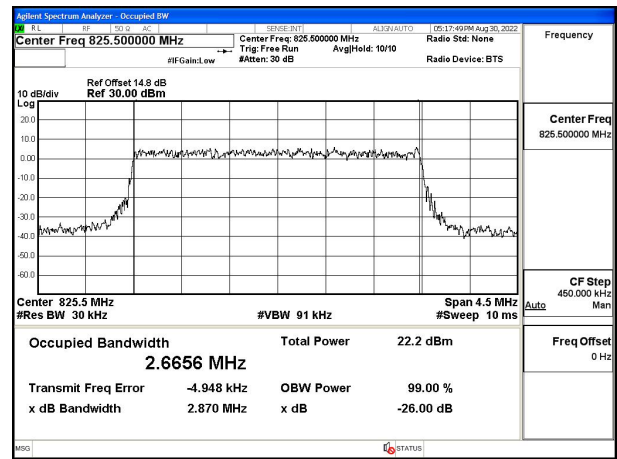


Fig.4

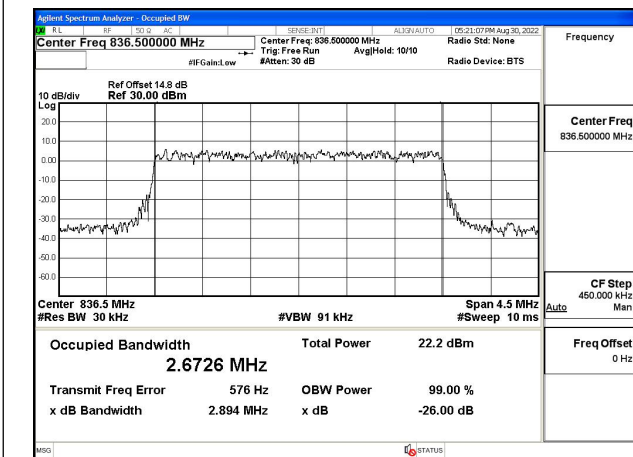


Fig.5

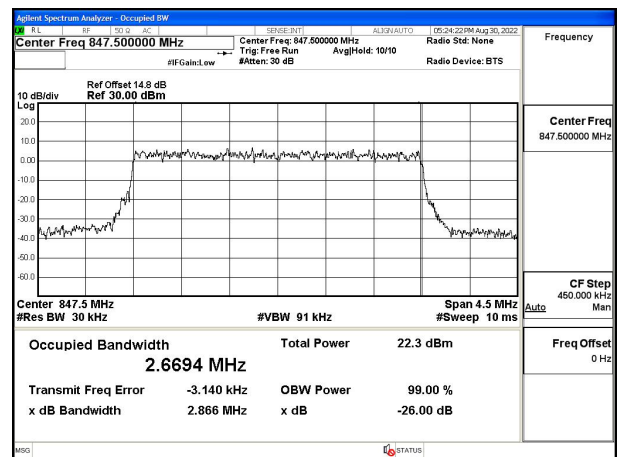


Fig.6

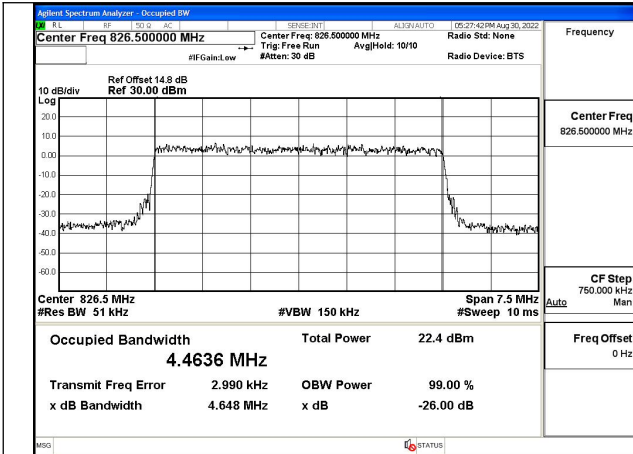


Fig.7

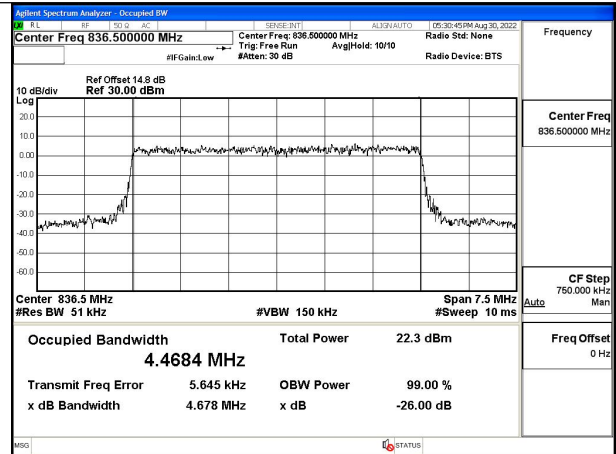


Fig.8

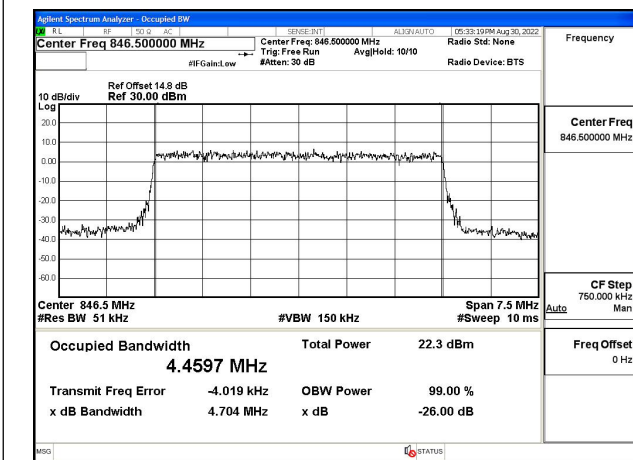


Fig.9

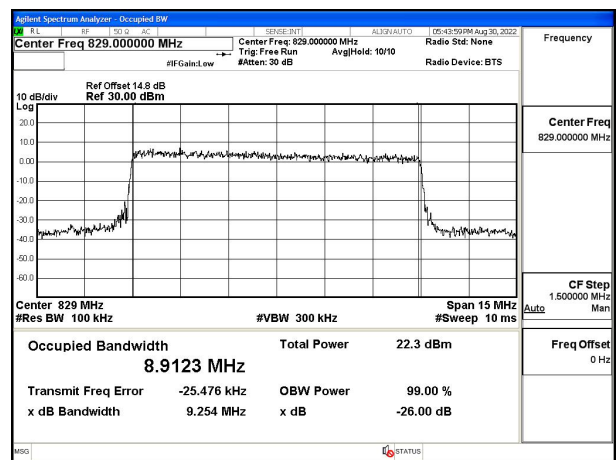


Fig.10

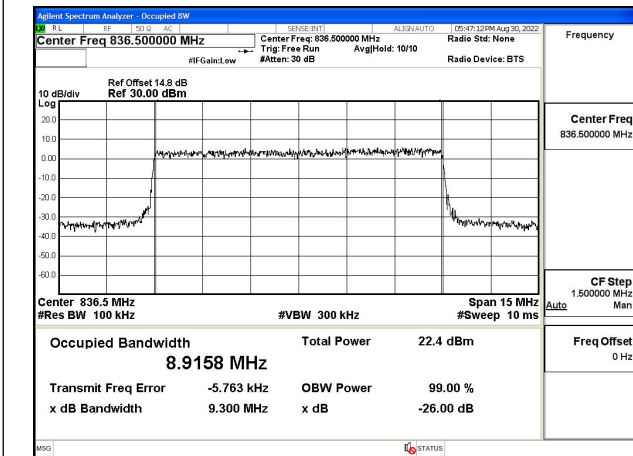


Fig.11

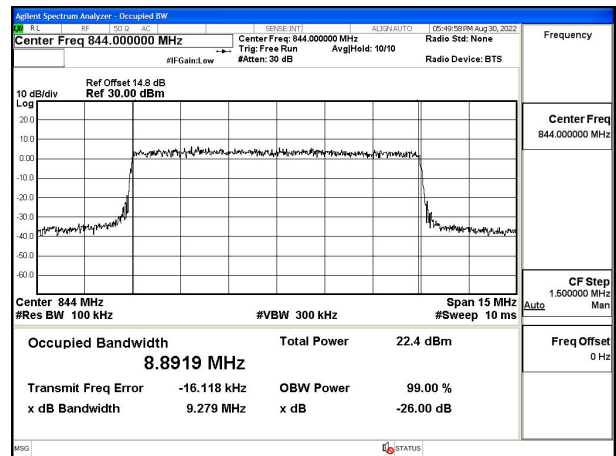


Fig.12

Test Mode: 16QAM

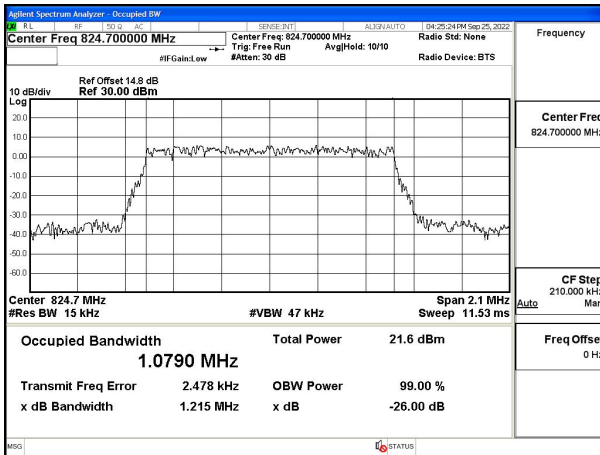


Fig. 13

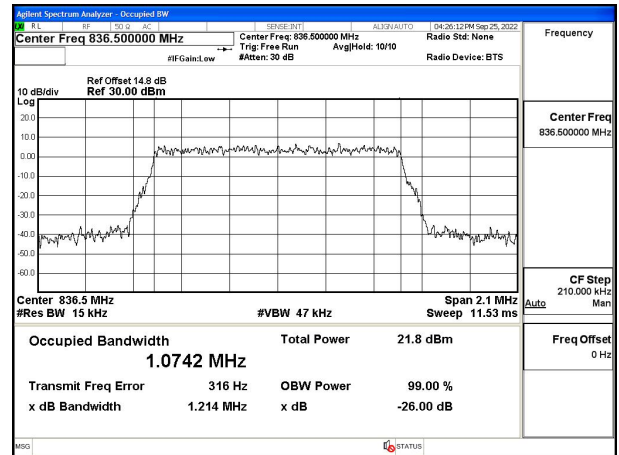


Fig. 14

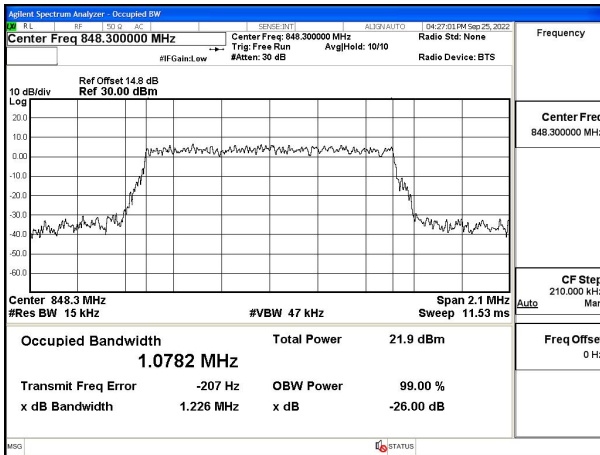


Fig. 15

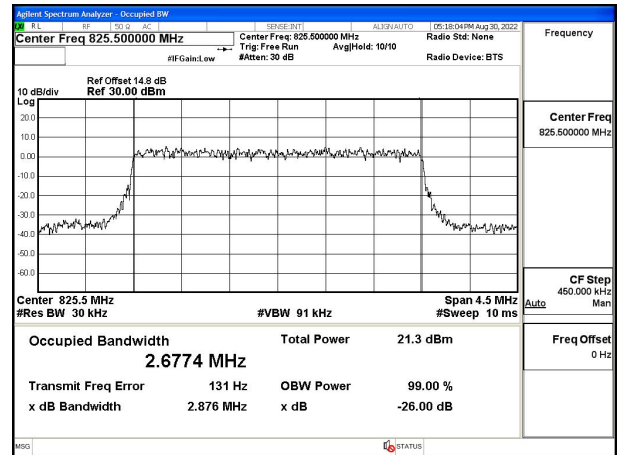


Fig. 16

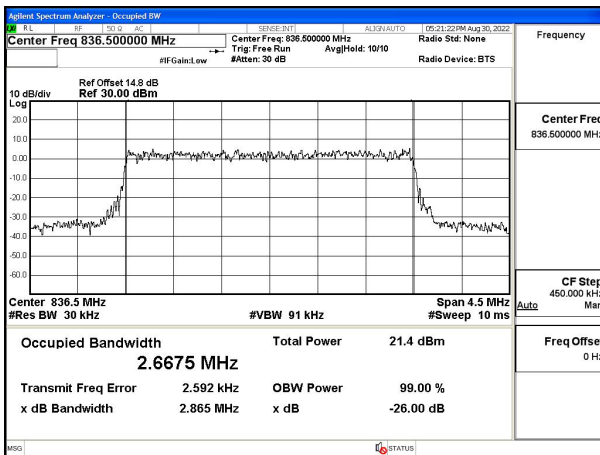


Fig. 17

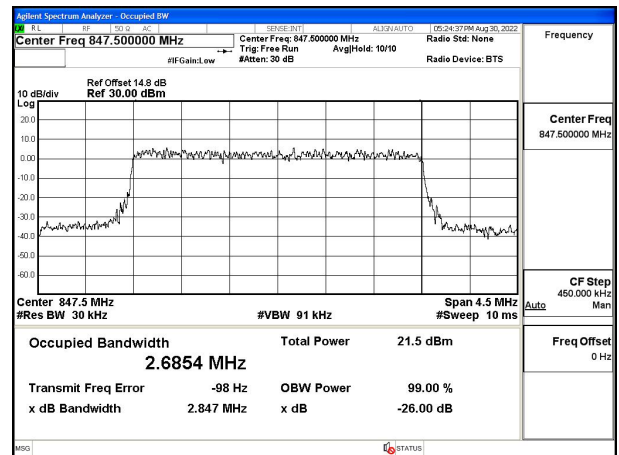


Fig. 18

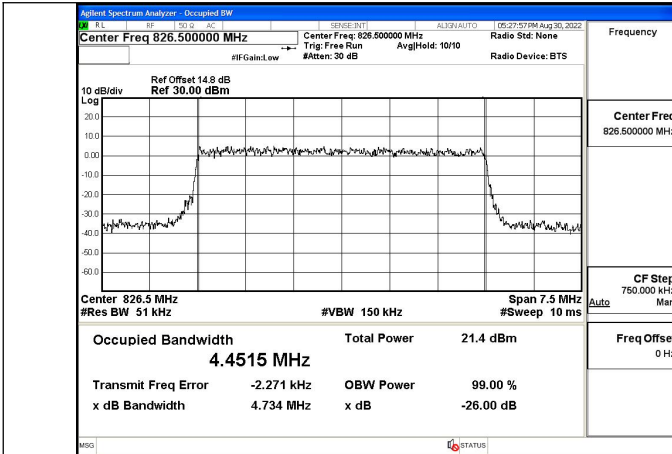


Fig.19

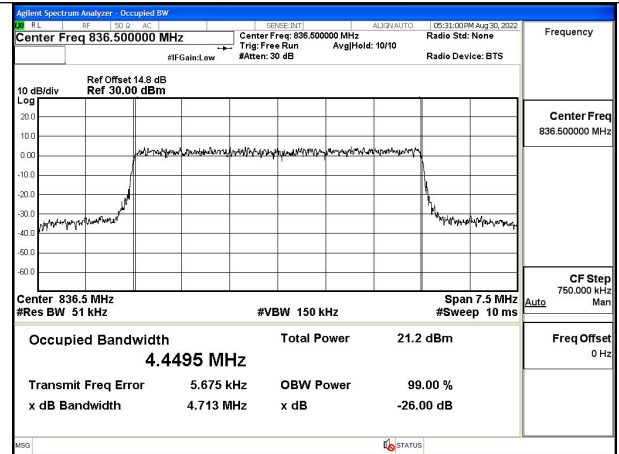


Fig.20

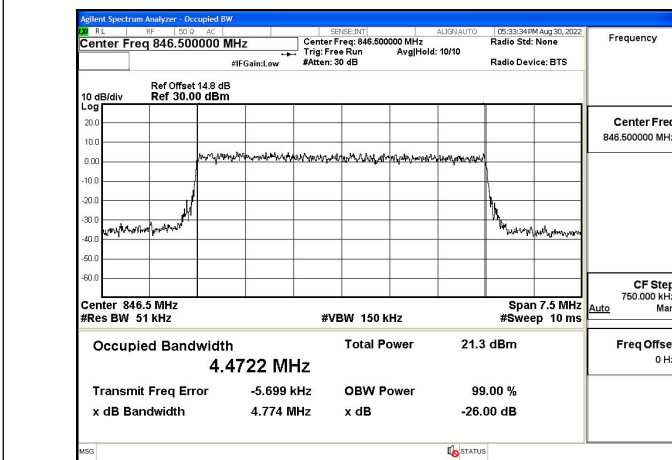


Fig.21

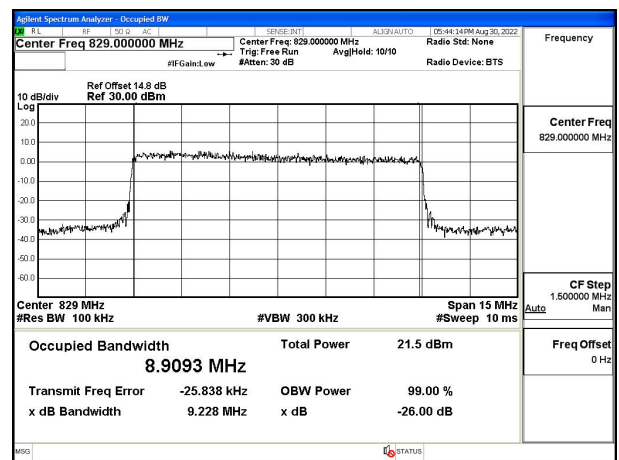


Fig.22

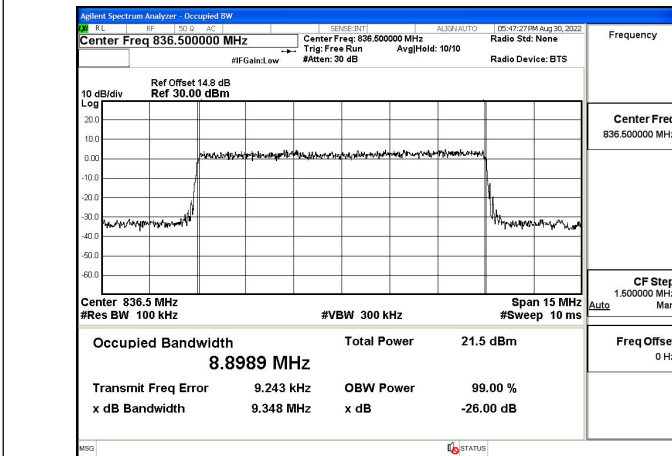


Fig.23

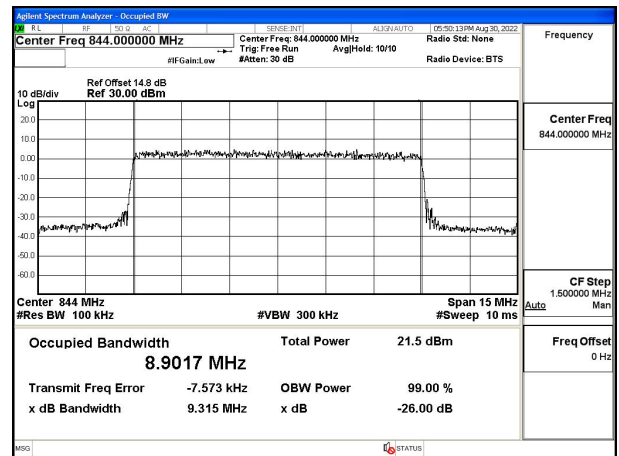


Fig.24

Test Mode: 64QAM

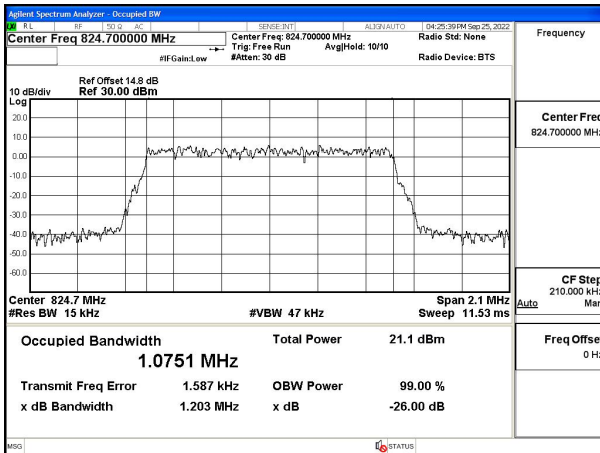


Fig.25

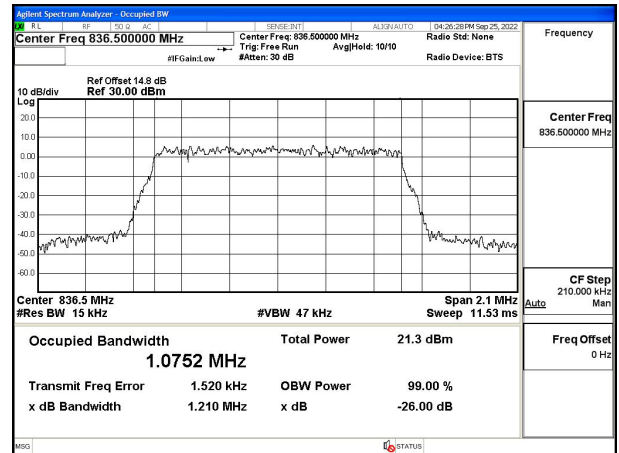


Fig.26

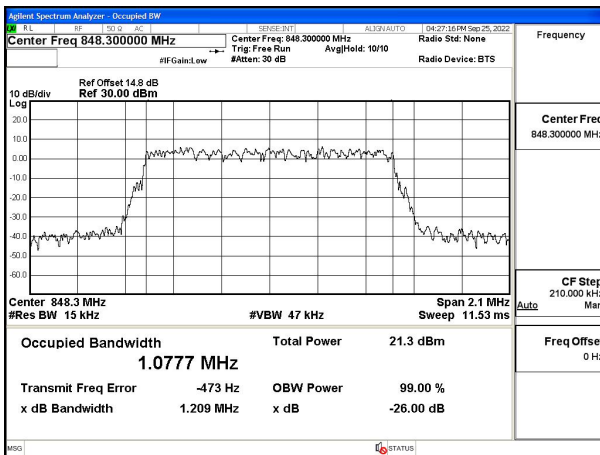


Fig.27

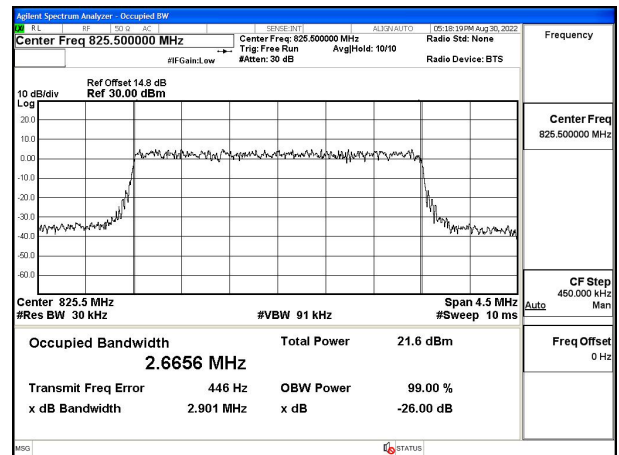


Fig.28

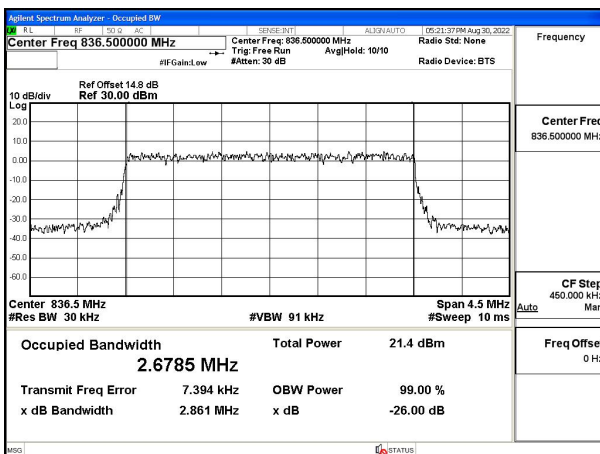


Fig.29

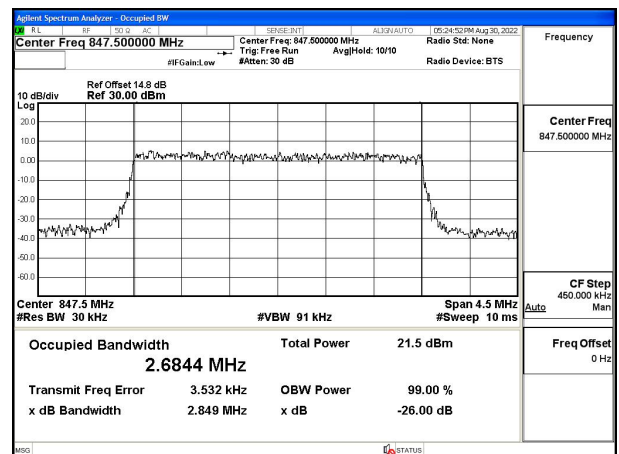


Fig.30

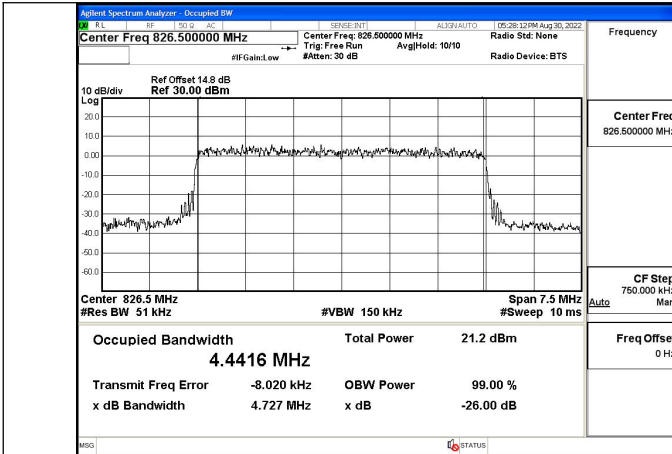


Fig.31

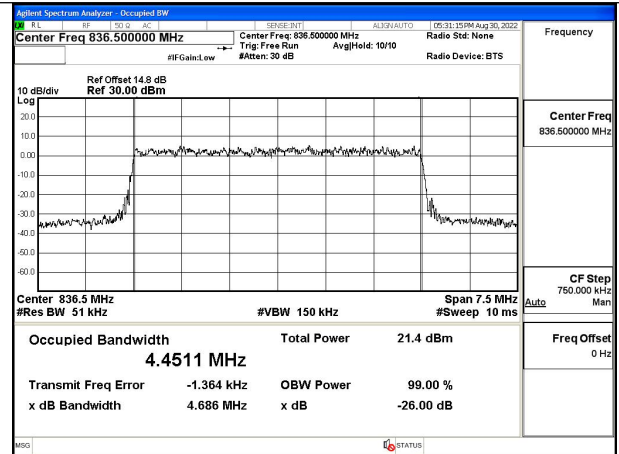


Fig.32

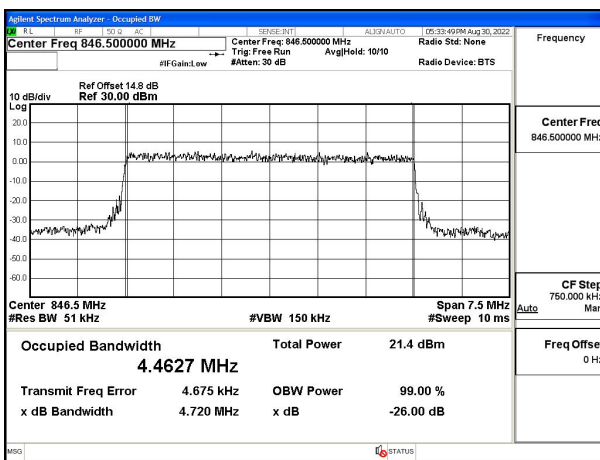


Fig.33

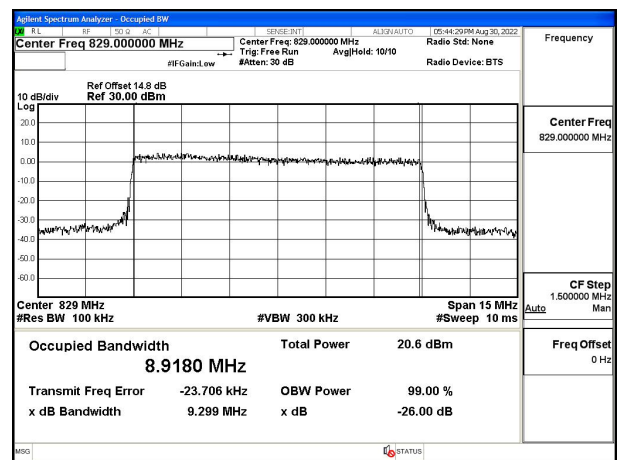


Fig.34

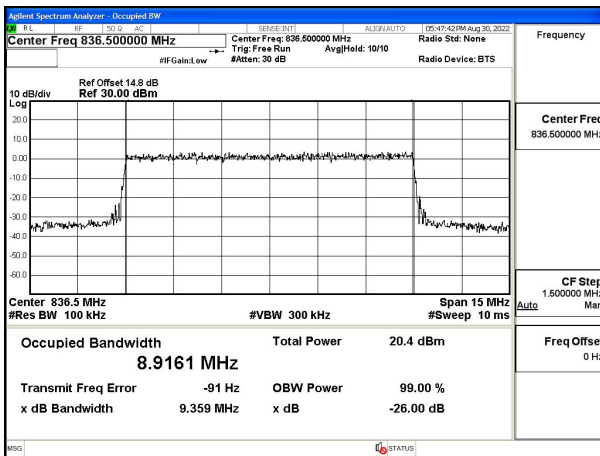


Fig.35

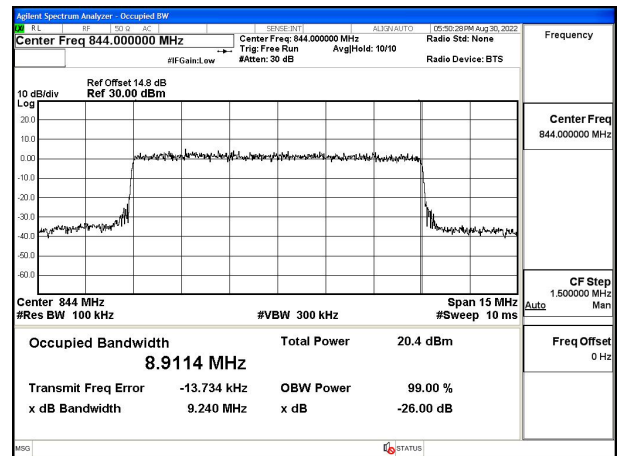


Fig.36



### 3 Emission Bandwidth

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	QPSK	824.7	20407	1.4	6	0	1.21	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.22	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.21	Fig.3
5	QPSK	825.5	20415	3	15	0	2.87	Fig.4
5	QPSK	836.5	20525	3	15	0	2.89	Fig.5
5	QPSK	847.5	20635	3	15	0	2.87	Fig.6
5	QPSK	826.5	20425	5	25	0	4.65	Fig.7
5	QPSK	836.5	20525	5	25	0	4.68	Fig.8
5	QPSK	846.5	20625	5	25	0	4.70	Fig.9
5	QPSK	829	20450	10	50	0	9.25	Fig.10
5	QPSK	836.5	20525	10	50	0	9.30	Fig.11
5	QPSK	844	20600	10	50	0	9.28	Fig.12

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	16QAM	824.7	20407	1.4	6	0	1.22	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.21	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.23	Fig.15
5	16QAM	825.5	20415	3	15	0	2.88	Fig.16
5	16QAM	836.5	20525	3	15	0	2.86	Fig.17
5	16QAM	847.5	20635	3	15	0	2.85	Fig.18
5	16QAM	826.5	20425	5	25	0	4.73	Fig.19
5	16QAM	836.5	20525	5	25	0	4.71	Fig.20
5	16QAM	846.5	20625	5	25	0	4.77	Fig.21
5	16QAM	829	20450	10	50	0	9.23	Fig.22
5	16QAM	836.5	20525	10	50	0	9.35	Fig.23
5	16QAM	844	20600	10	50	0	9.32	Fig.24

Band	Mode	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)	
5	64QAM	824.7	20407	1.4	6	0	1.20	Fig.25
5	64QAM	836.5	20525	1.4	6	0	1.21	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.21	Fig.27
5	64QAM	825.5	20415	3	15	0	2.90	Fig.28
5	64QAM	836.5	20525	3	15	0	2.86	Fig.29
5	64QAM	847.5	20635	3	15	0	2.85	Fig.30
5	64QAM	826.5	20425	5	25	0	4.73	Fig.31
5	64QAM	836.5	20525	5	25	0	4.69	Fig.32
5	64QAM	846.5	20625	5	25	0	4.72	Fig.33
5	64QAM	829	20450	10	50	0	9.30	Fig.34
5	64QAM	836.5	20525	10	50	0	9.36	Fig.35
5	64QAM	844	20600	10	50	0	9.24	Fig.36



Test Mode: QPSK

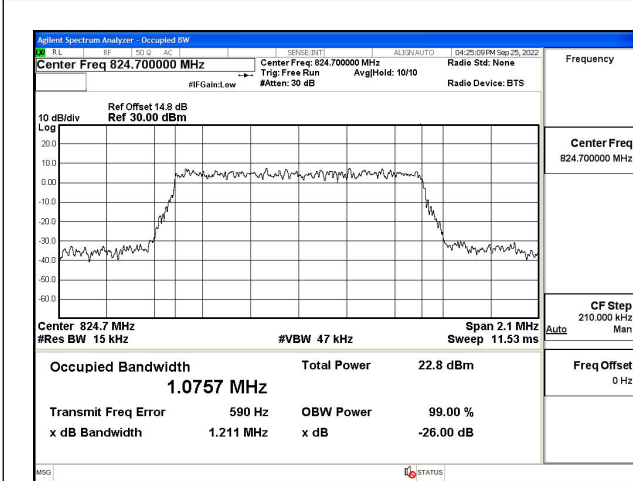


Fig.1

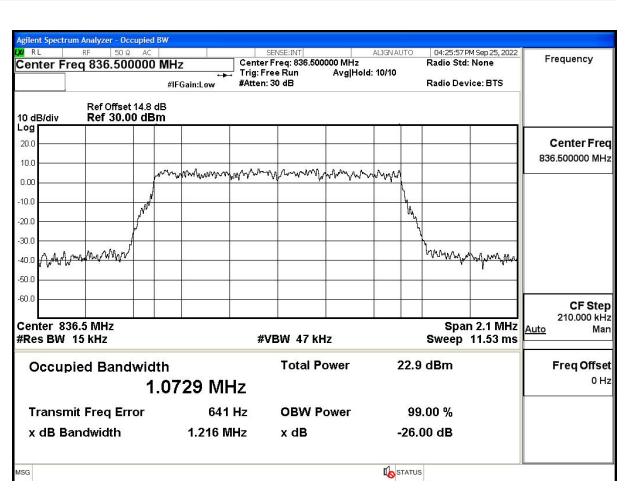


Fig.2

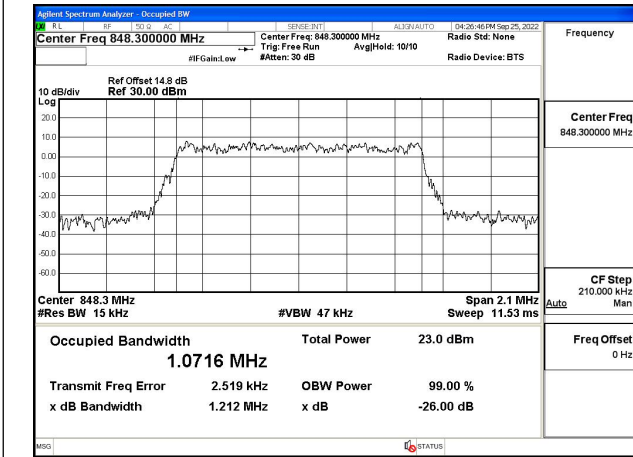


Fig.3

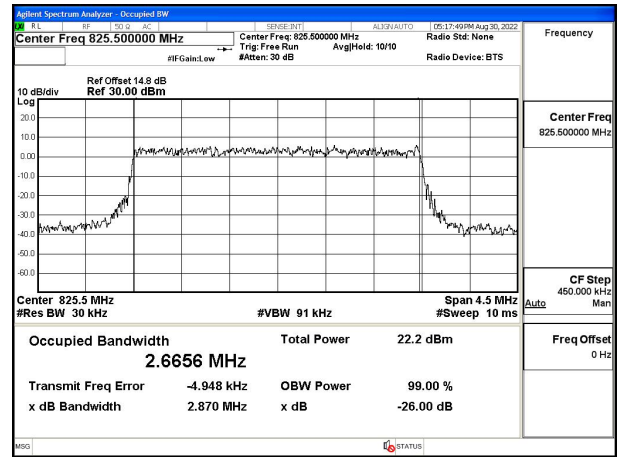


Fig.4

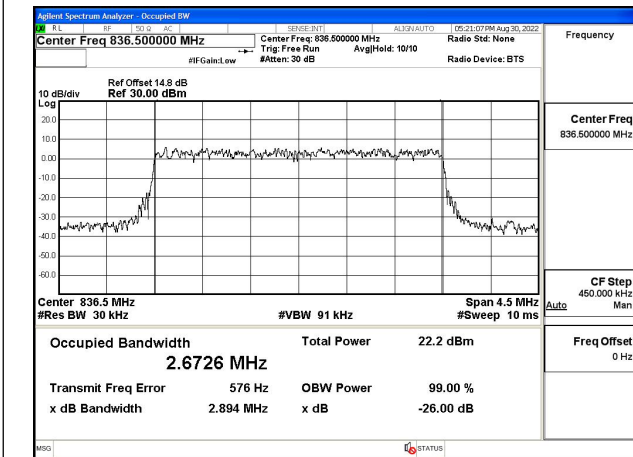


Fig.5

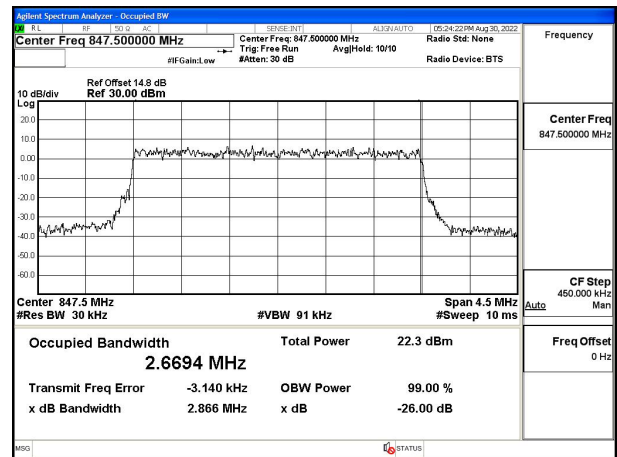


Fig.6