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	23.03
QPSK	824.7	20407	1.4	1	3	23.01
QPSK	824.7	20407	1.4	1	5	23.00
QPSK	824.7	20407	1.4	3	0	22.97
QPSK	824.7	20407	1.4	3	1	23.00
QPSK	824.7	20407	1.4	3	3	22.92
QPSK	824.7	20407	1.4	6	0	22.27
QPSK	836.5	20525	1.4	1	0	22.96
QPSK	836.5	20525	1.4	1	3	23.10
QPSK	836.5	20525	1.4	1	5	23.16
QPSK	836.5	20525	1.4	3	0	23.22
QPSK	836.5	20525	1.4	3	1	23.21
QPSK	836.5	20525	1.4	3	3	23.24
QPSK	836.5	20525	1.4	6	0	22.18
QPSK	848.3	20643	1.4	1	0	23.29
QPSK	848.3	20643	1.4	1	3	23.30
QPSK	848.3	20643	1.4	1	5	23.33
QPSK	848.3	20643	1.4	3	0	23.28
QPSK	848.3	20643	1.4	3	1	23.28
QPSK	848.3	20643	1.4	3	3	23.38
QPSK	848.3	20643	1.4	6	0	22.30

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	824.7	20407	1.4	1	0	22.85
16QAM	824.7	20407	1.4	1	3	22.16
16QAM	824.7	20407	1.4	1	5	22.55
16QAM	824.7	20407	1.4	3	0	22.16
16QAM	824.7	20407	1.4	3	1	22.18
16QAM	824.7	20407	1.4	3	3	21.94
16QAM	824.7	20407	1.4	6	0	21.09
16QAM	836.5	20525	1.4	1	0	22.20
16QAM	836.5	20525	1.4	1	3	22.40
16QAM	836.5	20525	1.4	1	5	22.86
16QAM	836.5	20525	1.4	3	0	22.27
16QAM	836.5	20525	1.4	3	1	22.39
16QAM	836.5	20525	1.4	3	3	22.16
16QAM	836.5	20525	1.4	6	0	21.02
16QAM	848.3	20643	1.4	1	0	22.54
16QAM	848.3	20643	1.4	1	3	22.74
16QAM	848.3	20643	1.4	1	5	22.31
16QAM	848.3	20643	1.4	3	0	22.61
16QAM	848.3	20643	1.4	3	1	22.35
16QAM	848.3	20643	1.4	3	3	22.33
16QAM	848.3	20643	1.4	6	0	21.53
64QAM	824.7	20407	1.4	1	0	21.55
64QAM	824.7	20407	1.4	1	3	20.94
64QAM	824.7	20407	1.4	1	5	21.47
64QAM	824.7	20407	1.4	3	0	21.39
64QAM	824.7	20407	1.4	3	1	21.34
64QAM	824.7	20407	1.4	3	3	21.24
64QAM	824.7	20407	1.4	6	0	20.11
64QAM	836.5	20525	1.4	1	0	21.69
64QAM	836.5	20525	1.4	1	3	21.49
64QAM	836.5	20525	1.4	1	5	21.49
64QAM	836.5	20525	1.4	3	0	21.45
64QAM	836.5	20525	1.4	3	1	21.17
64QAM	836.5	20525	1.4	3	3	21.62
64QAM	836.5	20525	1.4	6	0	20.28
64QAM	848.3	20643	1.4	1	0	21.41
64QAM	848.3	20643	1.4	1	3	21.60
64QAM	848.3	20643	1.4	1	5	21.92
64QAM	848.3	20643	1.4	3	0	21.61
64QAM	848.3	20643	1.4	3	1	21.38
64QAM	848.3	20643	1.4	3	3	21.72
64QAM	848.3	20643	1.4	6	0	20.28

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.06
QPSK	825.5	20415	3	1	8	23.04
QPSK	825.5	20415	3	1	14	23.25
QPSK	825.5	20415	3	8	0	22.15
QPSK	825.5	20415	3	8	4	22.19
QPSK	825.5	20415	3	8	7	22.17
QPSK	825.5	20415	3	15	0	22.20
QPSK	836.5	20525	3	1	0	23.30
QPSK	836.5	20525	3	1	8	23.25
QPSK	836.5	20525	3	1	14	23.21
QPSK	836.5	20525	3	8	0	22.26
QPSK	836.5	20525	3	8	4	22.29
QPSK	836.5	20525	3	8	7	22.39
QPSK	836.5	20525	3	15	0	22.27
QPSK	847.5	20635	3	1	0	23.30
QPSK	847.5	20635	3	1	8	23.52
QPSK	847.5	20635	3	1	14	23.53
QPSK	847.5	20635	3	8	0	22.35
QPSK	847.5	20635	3	8	4	22.42
QPSK	847.5	20635	3	8	7	22.32
QPSK	847.5	20635	3	15	0	22.51

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	825.5	20415	3	1	0	22.36
16QAM	825.5	20415	3	1	8	22.37
16QAM	825.5	20415	3	1	14	22.03
16QAM	825.5	20415	3	8	0	21.25
16QAM	825.5	20415	3	8	4	21.25
16QAM	825.5	20415	3	8	7	21.12
16QAM	825.5	20415	3	15	0	21.22
16QAM	836.5	20525	3	1	0	22.48
16QAM	836.5	20525	3	1	8	22.51
16QAM	836.5	20525	3	1	14	22.67
16QAM	836.5	20525	3	8	0	21.23
16QAM	836.5	20525	3	8	4	21.39
16QAM	836.5	20525	3	8	7	21.40
16QAM	836.5	20525	3	15	0	21.35
16QAM	847.5	20635	3	1	0	22.69
16QAM	847.5	20635	3	1	8	23.09
16QAM	847.5	20635	3	1	14	22.43
16QAM	847.5	20635	3	8	0	21.29
16QAM	847.5	20635	3	8	4	21.61
16QAM	847.5	20635	3	8	7	21.34
16QAM	847.5	20635	3	15	0	21.48
64QAM	825.5	20415	3	1	0	21.19
64QAM	825.5	20415	3	1	8	21.57
64QAM	825.5	20415	3	1	14	21.62
64QAM	825.5	20415	3	8	0	20.11
64QAM	825.5	20415	3	8	4	20.15
64QAM	825.5	20415	3	8	7	20.07
64QAM	825.5	20415	3	15	0	20.23
64QAM	836.5	20525	3	1	0	21.54
64QAM	836.5	20525	3	1	8	21.20
64QAM	836.5	20525	3	1	14	21.90
64QAM	836.5	20525	3	8	0	20.25
64QAM	836.5	20525	3	8	4	20.47
64QAM	836.5	20525	3	8	7	20.26
64QAM	836.5	20525	3	15	0	20.34
64QAM	847.5	20635	3	1	0	21.57
64QAM	847.5	20635	3	1	8	21.85
64QAM	847.5	20635	3	1	14	21.79
64QAM	847.5	20635	3	8	0	20.57
64QAM	847.5	20635	3	8	4	20.62
64QAM	847.5	20635	3	8	7	20.32
64QAM	847.5	20635	3	15	0	20.36

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.07
QPSK	826.5	20425	5	1	12	23.15
QPSK	826.5	20425	5	1	24	23.10
QPSK	826.5	20425	5	12	0	22.23
QPSK	826.5	20425	5	12	7	22.13
QPSK	826.5	20425	5	12	13	22.17
QPSK	826.5	20425	5	25	0	22.19
QPSK	836.5	20525	5	1	0	23.45
QPSK	836.5	20525	5	1	12	23.25
QPSK	836.5	20525	5	1	24	23.50
QPSK	836.5	20525	5	12	0	22.33
QPSK	836.5	20525	5	12	7	22.33
QPSK	836.5	20525	5	12	13	22.46
QPSK	836.5	20525	5	25	0	22.30
QPSK	846.5	20625	5	1	0	23.33
QPSK	846.5	20625	5	1	12	23.80
QPSK	846.5	20625	5	1	24	23.44
QPSK	846.5	20625	5	12	0	22.32
QPSK	846.5	20625	5	12	7	22.37
QPSK	846.5	20625	5	12	13	22.45
QPSK	846.5	20625	5	25	0	22.35

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	826.5	20425	5	1	0	22.21
16QAM	826.5	20425	5	1	12	22.55
16QAM	826.5	20425	5	1	24	22.53
16QAM	826.5	20425	5	12	0	21.15
16QAM	826.5	20425	5	12	7	21.13
16QAM	826.5	20425	5	12	13	21.18
16QAM	826.5	20425	5	25	0	21.22
16QAM	836.5	20525	5	1	0	22.90
16QAM	836.5	20525	5	1	12	22.97
16QAM	836.5	20525	5	1	24	23.09
16QAM	836.5	20525	5	12	0	21.41
16QAM	836.5	20525	5	12	7	21.25
16QAM	836.5	20525	5	12	13	21.51
16QAM	836.5	20525	5	25	0	21.37
16QAM	846.5	20625	5	1	0	22.27
16QAM	846.5	20625	5	1	12	22.85
16QAM	846.5	20625	5	1	24	22.67
16QAM	846.5	20625	5	12	0	21.50
16QAM	846.5	20625	5	12	7	21.32
16QAM	846.5	20625	5	12	13	21.52
16QAM	846.5	20625	5	25	0	21.38
64QAM	826.5	20425	5	1	0	21.12
64QAM	826.5	20425	5	1	12	21.30
64QAM	826.5	20425	5	1	24	21.29
64QAM	826.5	20425	5	12	0	20.33
64QAM	826.5	20425	5	12	7	20.19
64QAM	826.5	20425	5	12	13	20.27
64QAM	826.5	20425	5	25	0	20.14
64QAM	836.5	20525	5	1	0	21.39
64QAM	836.5	20525	5	1	12	21.61
64QAM	836.5	20525	5	1	24	21.56
64QAM	836.5	20525	5	12	0	20.48
64QAM	836.5	20525	5	12	7	20.38
64QAM	836.5	20525	5	12	13	20.38
64QAM	836.5	20525	5	25	0	20.31
64QAM	846.5	20625	5	1	0	21.35
64QAM	846.5	20625	5	1	12	21.59
64QAM	846.5	20625	5	1	24	21.32
64QAM	846.5	20625	5	12	0	20.33
64QAM	846.5	20625	5	12	7	20.46
64QAM	846.5	20625	5	12	13	20.24
64QAM	846.5	20625	5	25	0	20.33

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.00
QPSK	829	20450	10	1	25	23.08
QPSK	829	20450	10	1	49	23.11
QPSK	829	20450	10	25	0	22.21
QPSK	829	20450	10	25	12	22.25
QPSK	829	20450	10	25	25	22.34
QPSK	829	20450	10	50	0	22.20
QPSK	836.5	20525	10	1	0	23.10
QPSK	836.5	20525	10	1	25	23.09
QPSK	836.5	20525	10	1	49	23.38
QPSK	836.5	20525	10	25	0	22.36
QPSK	836.5	20525	10	25	12	22.35
QPSK	836.5	20525	10	25	25	22.41
QPSK	836.5	20525	10	50	0	22.31
QPSK	844	20600	10	1	0	23.14
QPSK	844	20600	10	1	25	23.18
QPSK	844	20600	10	1	49	23.25
QPSK	844	20600	10	25	0	22.37
QPSK	844	20600	10	25	12	22.36
QPSK	844	20600	10	25	25	22.52
QPSK	844	20600	10	50	0	22.29

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
16QAM	829	20450	10	1	0	22.27
16QAM	829	20450	10	1	25	22.22
16QAM	829	20450	10	1	49	22.14
16QAM	829	20450	10	25	0	21.27
16QAM	829	20450	10	25	12	21.20
16QAM	829	20450	10	25	25	21.32
16QAM	829	20450	10	50	0	21.30
16QAM	836.5	20525	10	1	0	22.02
16QAM	836.5	20525	10	1	25	22.88
16QAM	836.5	20525	10	1	49	22.25
16QAM	836.5	20525	10	25	0	21.38
16QAM	836.5	20525	10	25	12	21.43
16QAM	836.5	20525	10	25	25	21.54
16QAM	836.5	20525	10	50	0	21.36
16QAM	844	20600	10	1	0	22.52
16QAM	844	20600	10	1	25	22.31
16QAM	844	20600	10	1	49	22.48
16QAM	844	20600	10	25	0	21.43
16QAM	844	20600	10	25	12	21.41
16QAM	844	20600	10	25	25	21.36
16QAM	844	20600	10	50	0	21.40
64QAM	829	20450	10	1	0	21.36
64QAM	829	20450	10	1	25	21.15
64QAM	829	20450	10	1	49	21.38
64QAM	829	20450	10	25	0	20.23
64QAM	829	20450	10	25	12	20.28
64QAM	829	20450	10	25	25	20.28
64QAM	829	20450	10	50	0	20.28
64QAM	836.5	20525	10	1	0	21.06
64QAM	836.5	20525	10	1	25	21.41
64QAM	836.5	20525	10	1	49	21.69
64QAM	836.5	20525	10	25	0	20.34
64QAM	836.5	20525	10	25	12	20.32
64QAM	836.5	20525	10	25	25	20.78
64QAM	836.5	20525	10	50	0	20.40
64QAM	844	20600	10	1	0	21.69
64QAM	844	20600	10	1	25	21.70
64QAM	844	20600	10	1	49	21.32
64QAM	844	20600	10	25	0	20.45
64QAM	844	20600	10	25	12	20.44
64QAM	844	20600	10	25	25	20.50
64QAM	844	20600	10	50	0	20.24

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	1.08	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.07	Fig.3
5	QPSK	825.5	20415	3	15	0	2.68	Fig.4
5	QPSK	836.5	20525	3	15	0	2.67	Fig.5
5	QPSK	847.5	20635	3	15	0	2.68	Fig.6
5	QPSK	826.5	20425	5	25	0	4.47	Fig.7
5	QPSK	836.5	20525	5	25	0	4.46	Fig.8
5	QPSK	846.5	20625	5	25	0	4.47	Fig.9
5	QPSK	829	20450	10	50	0	8.92	Fig.10
5	QPSK	836.5	20525	10	50	0	8.90	Fig.11
5	QPSK	844	20600	10	50	0	8.90	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	1.07	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.07	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.07	Fig.15
5	16QAM	825.5	20415	3	15	0	2.67	Fig.16
5	16QAM	836.5	20525	3	15	0	2.68	Fig.17
5	16QAM	847.5	20635	3	15	0	2.68	Fig.18
5	16QAM	826.5	20425	5	25	0	4.45	Fig.19
5	16QAM	836.5	20525	5	25	0	4.46	Fig.20
5	16QAM	846.5	20625	5	25	0	4.45	Fig.21
5	16QAM	829	20450	10	50	0	8.91	Fig.22
5	16QAM	836.5	20525	10	50	0	8.89	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	1.07	Fig.27
5	64QAM	825.5	20415	3	15	0	2.67	Fig.28
5	64QAM	836.5	20525	3	15	0	2.67	Fig.29
5	64QAM	847.5	20635	3	15	0	2.67	Fig.30
5	64QAM	826.5	20425	5	25	0	4.44	Fig.31
5	64QAM	836.5	20525	5	25	0	4.47	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	8.91	Fig.35
5	64QAM	844	20600	10	50	0	8.90	Fig.36

Test Mode: QPSK

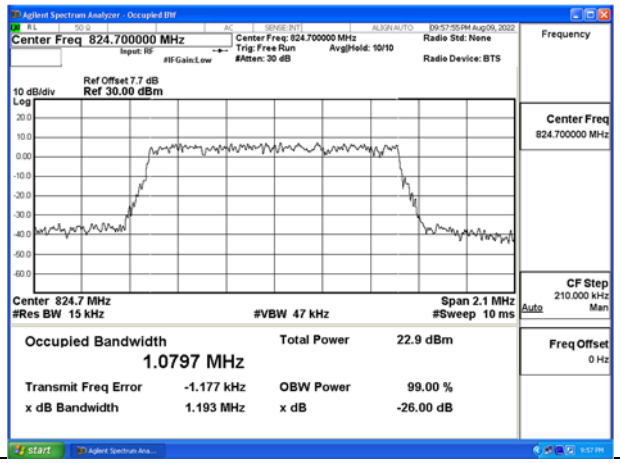


Fig.1

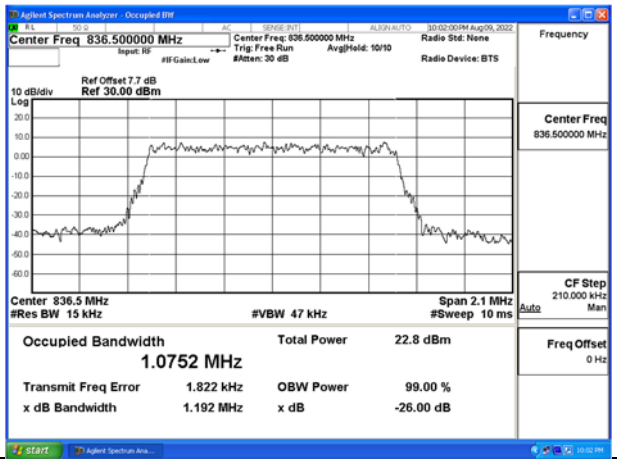


Fig.2

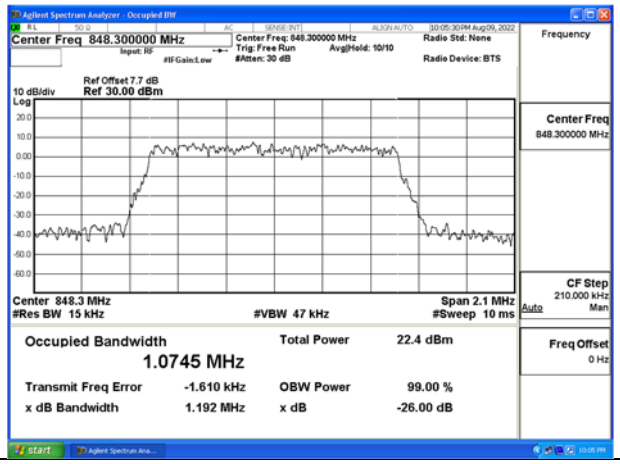


Fig.3

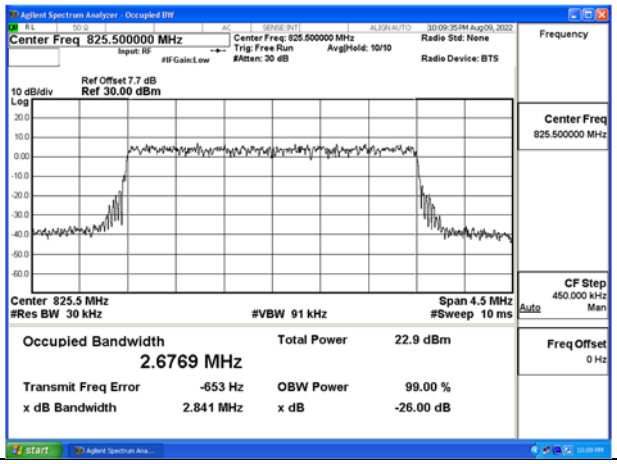


Fig.4

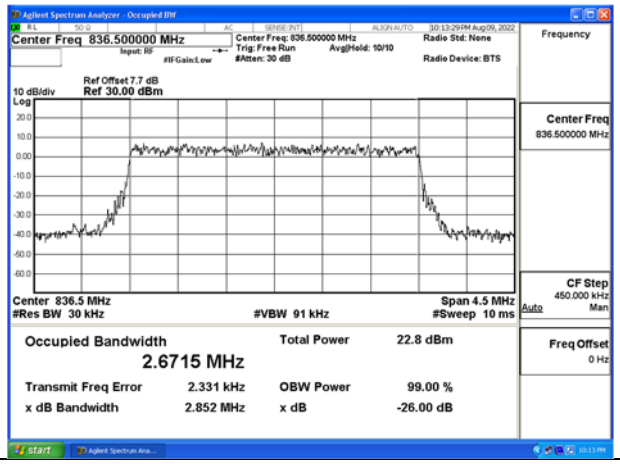


Fig.5

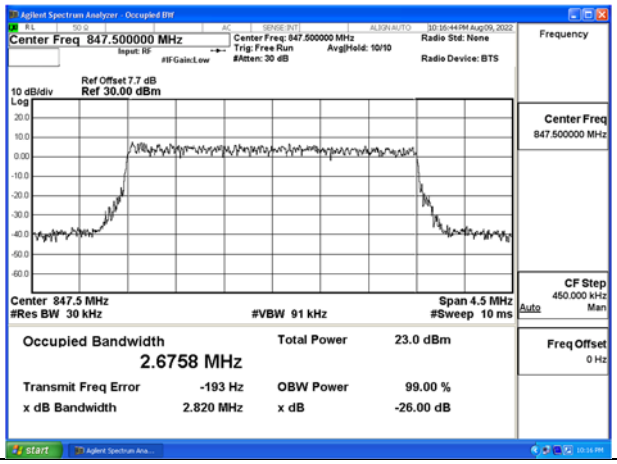


Fig.6

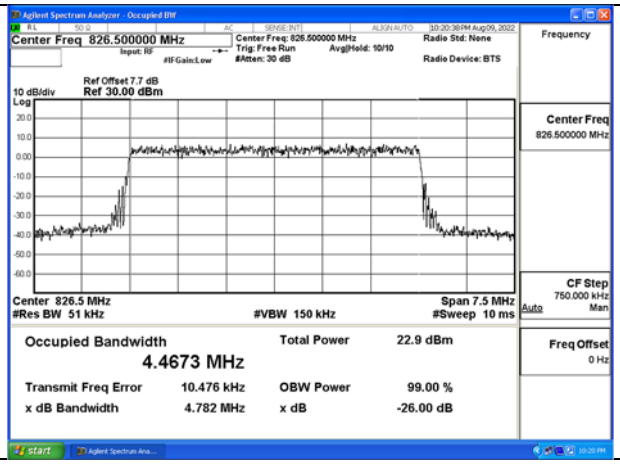
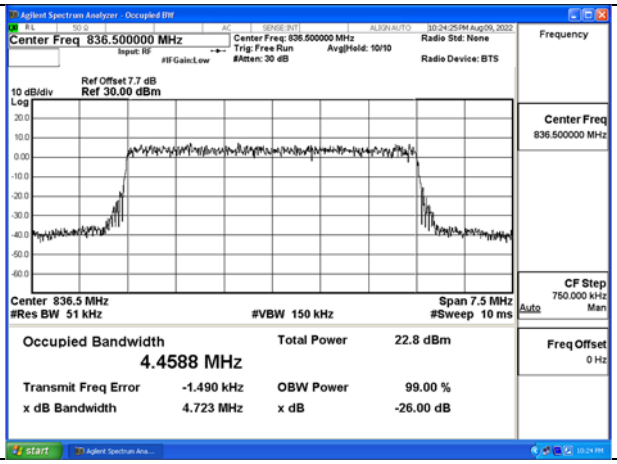


Fig.7



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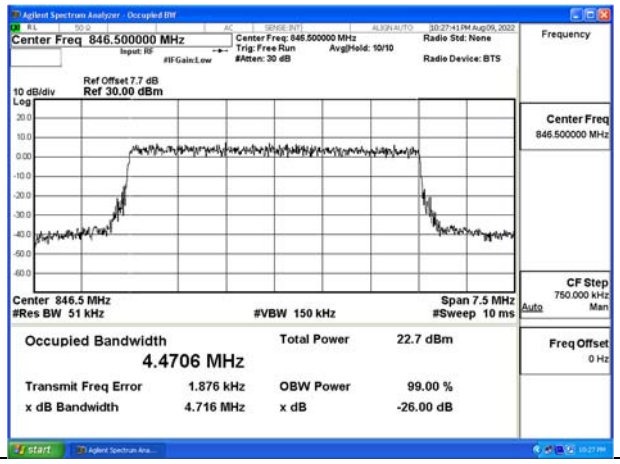


Fig.9

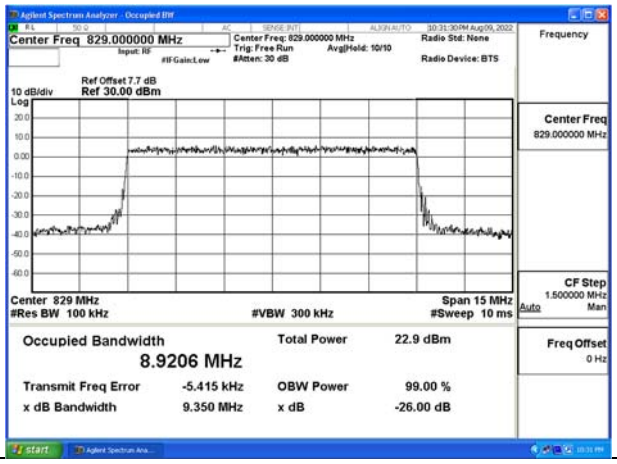


Fig.10

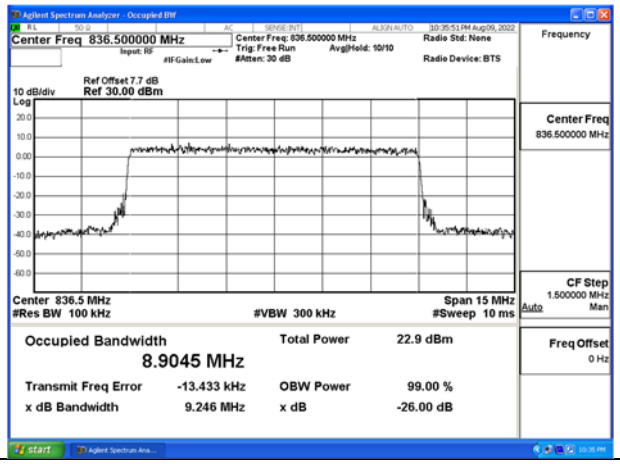


Fig.11

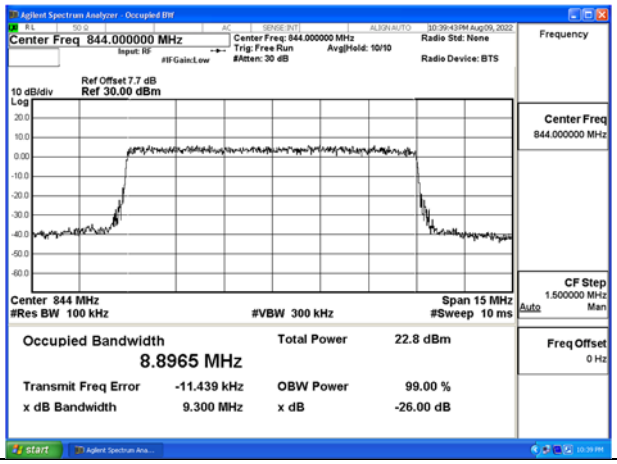
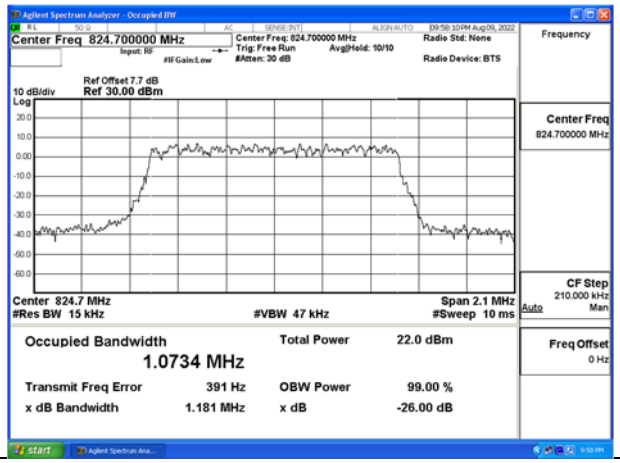


Fig.12

Test Mode: 16QAM



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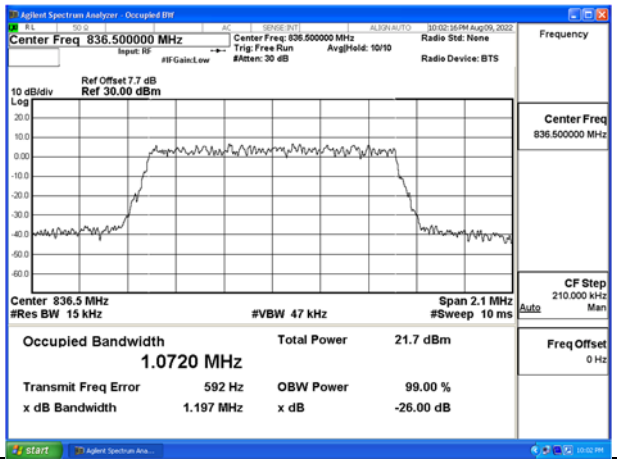
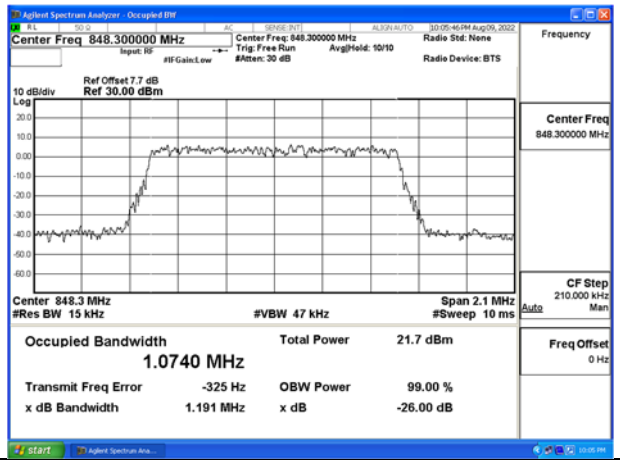


Fig.14



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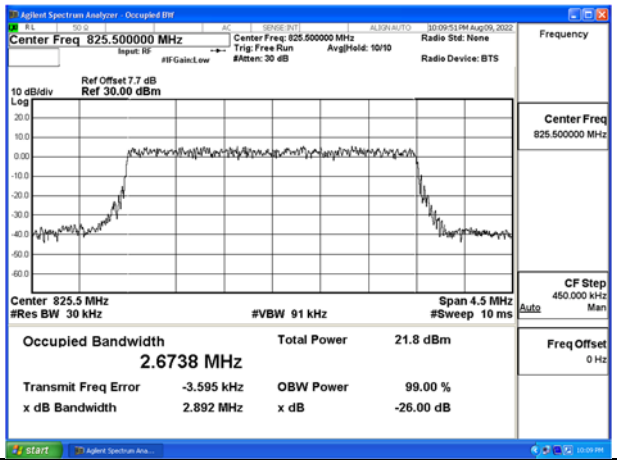
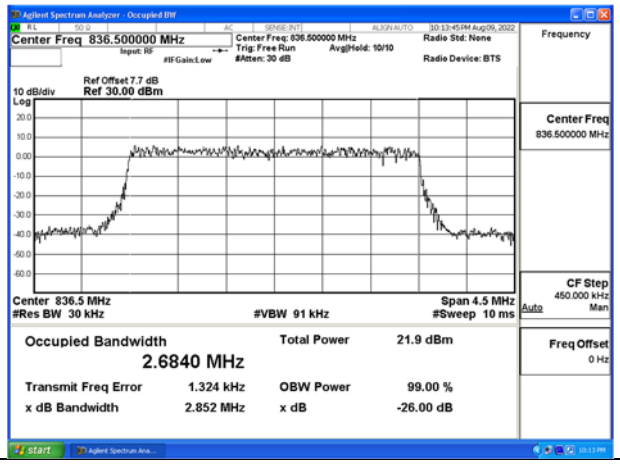


Fig.16



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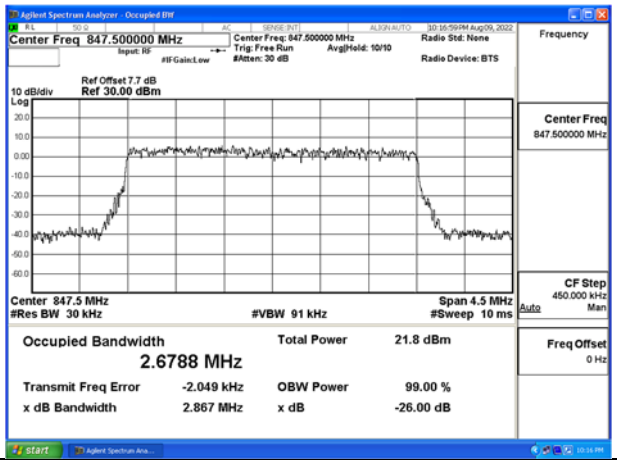

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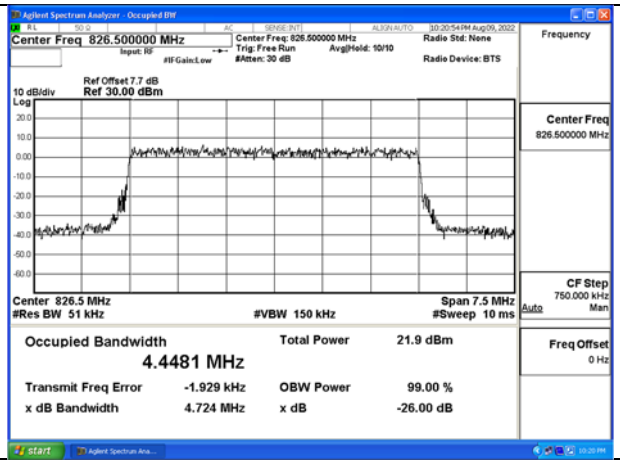

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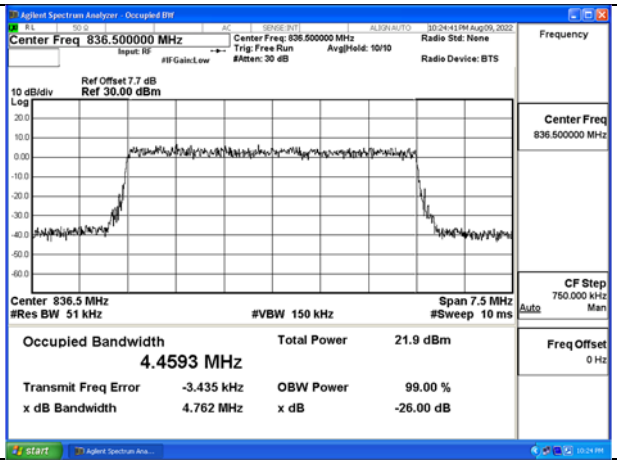


Fig.20

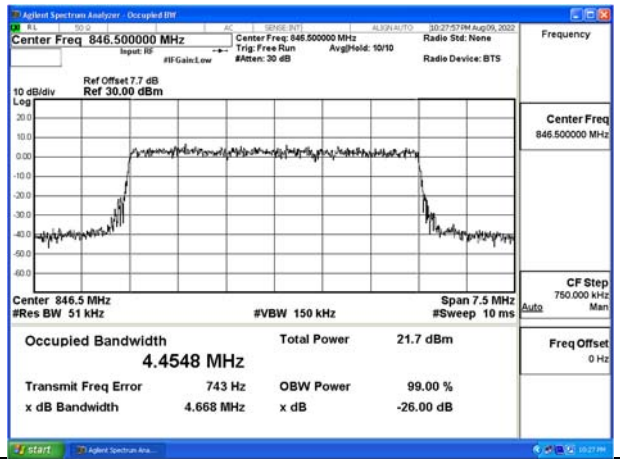


Fig.21

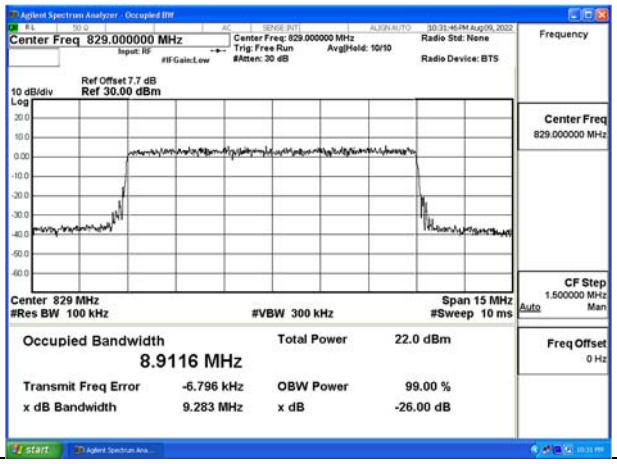


Fig.22

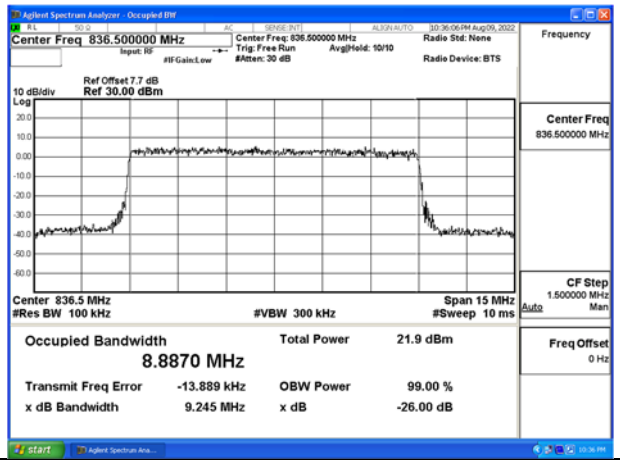


Fig.23

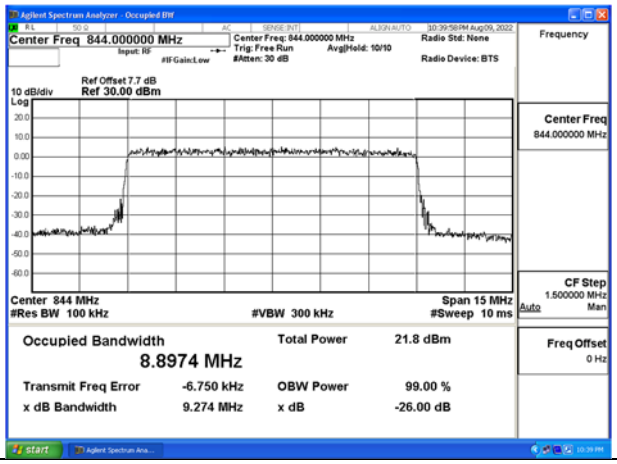


Fig.24

Test Mode: 64QAM

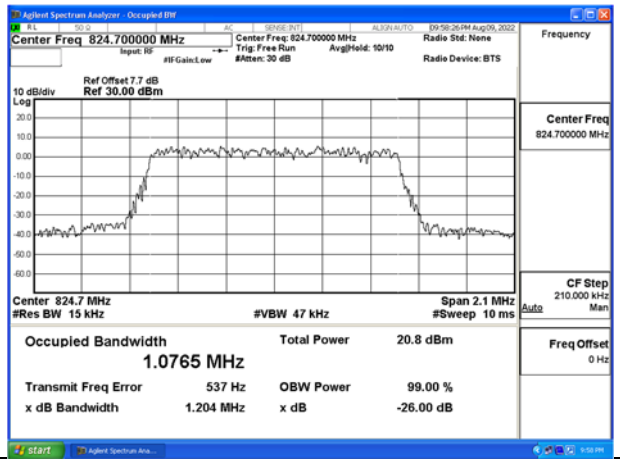


Fig.25

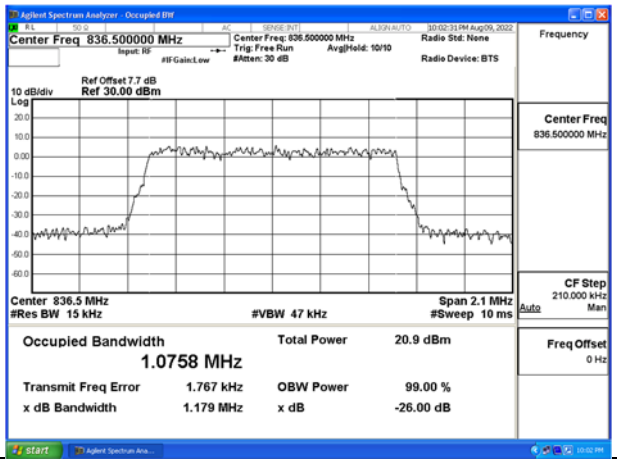


Fig.26

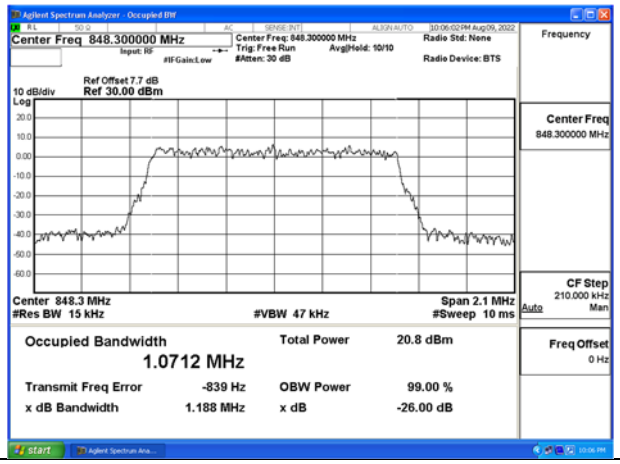


Fig.27

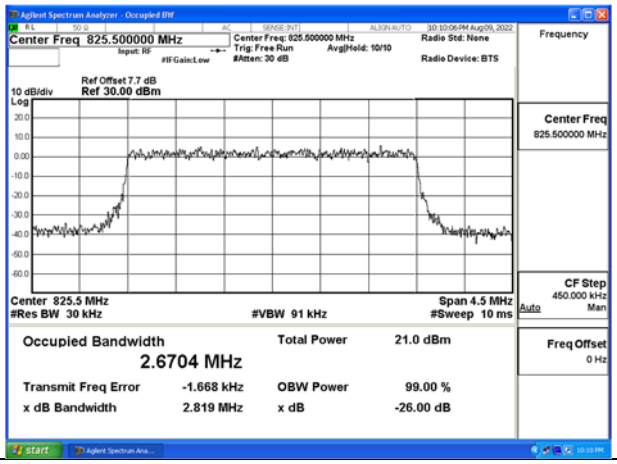


Fig.28

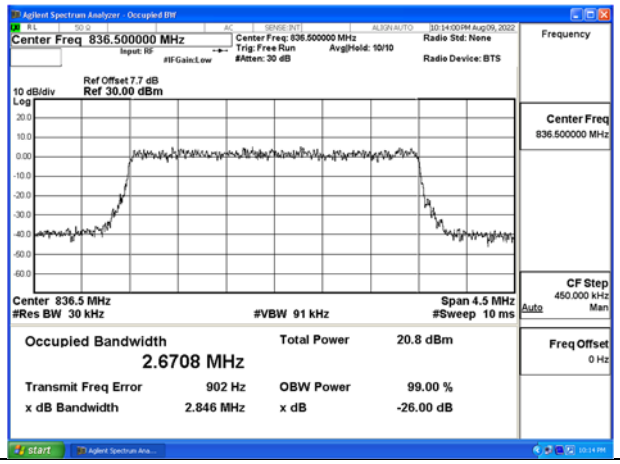


Fig.29

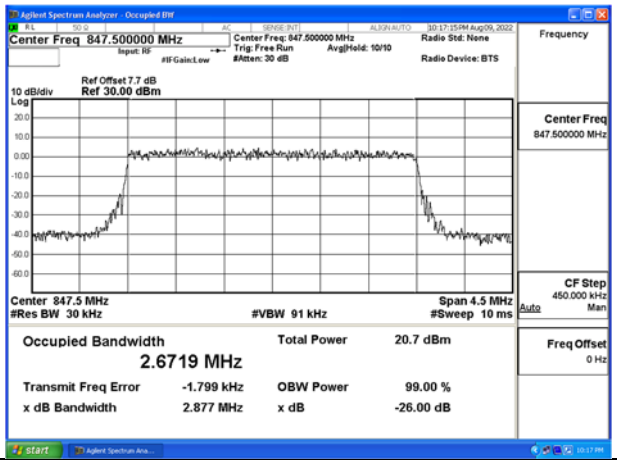


Fig.30

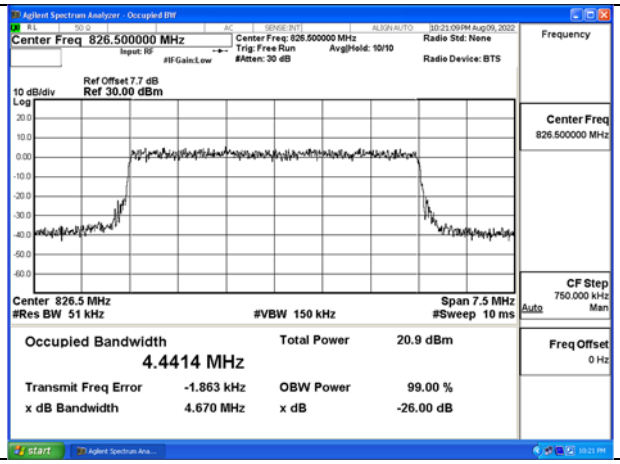


Fig.31

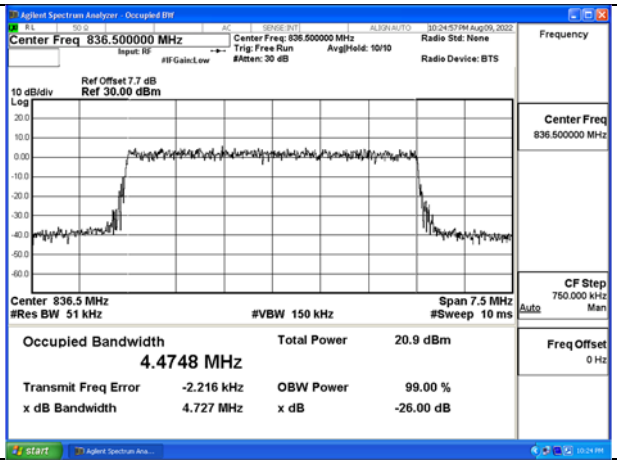


Fig.32

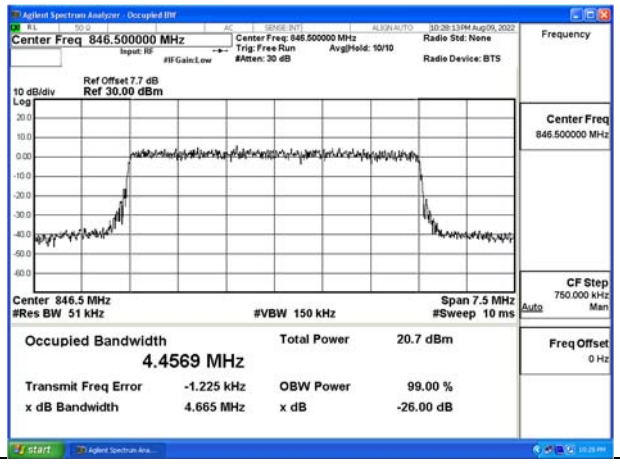


Fig.33

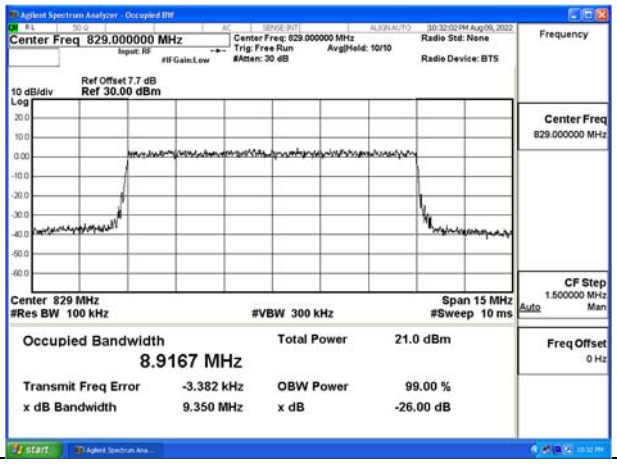


Fig.34

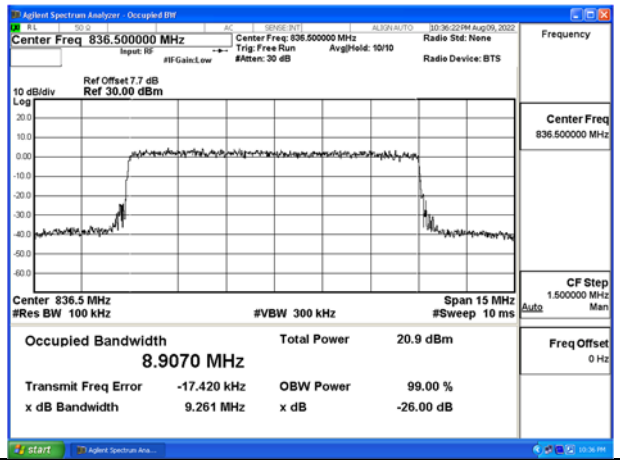


Fig.35

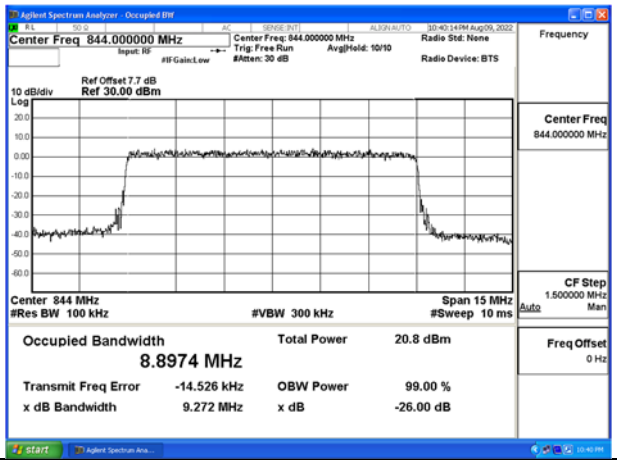


Fig.36

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	1.19	Fig.1
5	QPSK	836.5	20525	1.4	6	0	1.19	Fig.2
5	QPSK	848.3	20643	1.4	6	0	1.19	Fig.3
5	QPSK	825.5	20415	3	15	0	2.84	Fig.4
5	QPSK	836.5	20525	3	15	0	2.85	Fig.5
5	QPSK	847.5	20635	3	15	0	2.82	Fig.6
5	QPSK	826.5	20425	5	25	0	4.78	Fig.7
5	QPSK	836.5	20525	5	25	0	4.72	Fig.8
5	QPSK	846.5	20625	5	25	0	4.72	Fig.9
5	QPSK	829	20450	10	50	0	9.35	Fig.10
5	QPSK	836.5	20525	10	50	0	9.25	Fig.11
5	QPSK	844	20600	10	50	0	9.30	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	1.18	Fig.13
5	16QAM	836.5	20525	1.4	6	0	1.20	Fig.14
5	16QAM	848.3	20643	1.4	6	0	1.19	Fig.15
5	16QAM	825.5	20415	3	15	0	2.89	Fig.16
5	16QAM	836.5	20525	3	15	0	2.85	Fig.17
5	16QAM	847.5	20635	3	15	0	2.87	Fig.18
5	16QAM	826.5	20425	5	25	0	4.72	Fig.19
5	16QAM	836.5	20525	5	25	0	4.76	Fig.20
5	16QAM	846.5	20625	5	25	0	4.67	Fig.21
5	16QAM	829	20450	10	50	0	9.28	Fig.22
5	16QAM	836.5	20525	10	50	0	9.25	Fig.23
5	16QAM	844	20600	10	50	0	9.27	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	1.18	Fig.26
5	64QAM	848.3	20643	1.4	6	0	1.19	Fig.27
5	64QAM	825.5	20415	3	15	0	2.82	Fig.28
5	64QAM	836.5	20525	3	15	0	2.85	Fig.29
5	64QAM	847.5	20635	3	15	0	2.88	Fig.30
5	64QAM	826.5	20425	5	25	0	4.67	Fig.31
5	64QAM	836.5	20525	5	25	0	4.73	Fig.32
5	64QAM	846.5	20625	5	25	0	4.67	Fig.33
5	64QAM	829	20450	10	50	0	9.35	Fig.34
5	64QAM	836.5	20525	10	50	0	9.26	Fig.35
5	64QAM	844	20600	10	50	0	9.27	Fig.36

Test Mode: QPSK

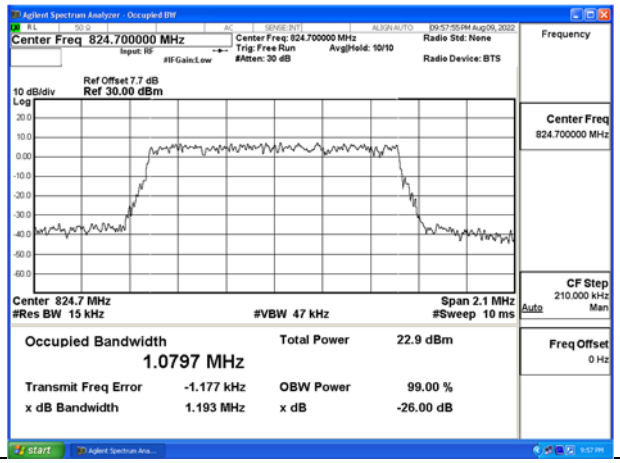


Fig.1

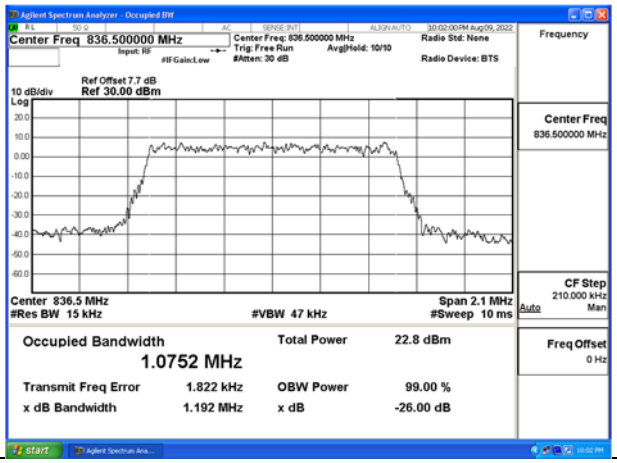


Fig.2

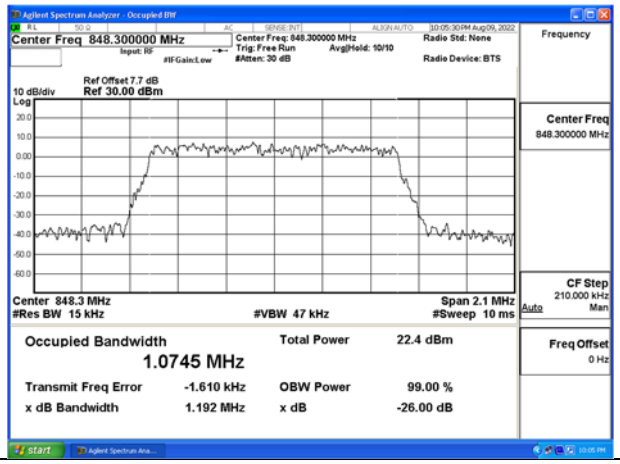


Fig.3

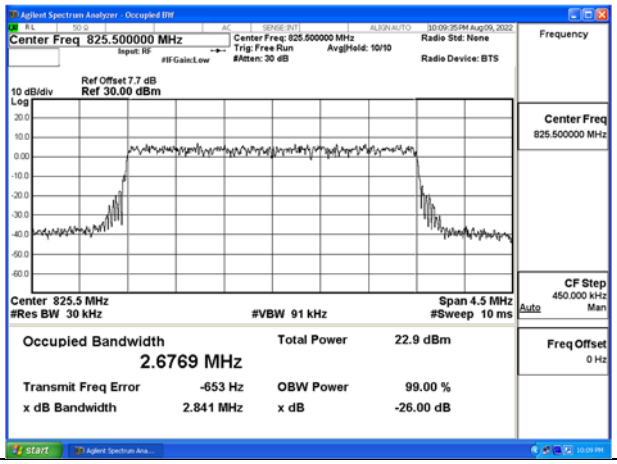


Fig.4

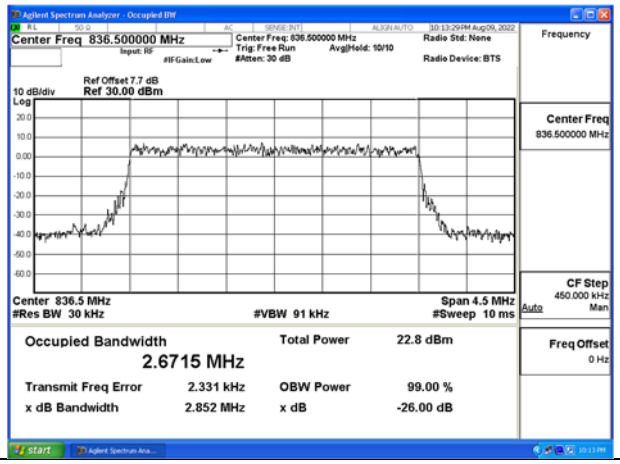


Fig.5

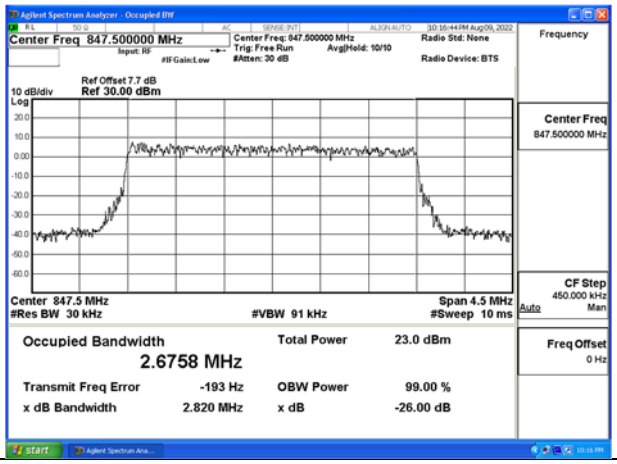


Fig.6

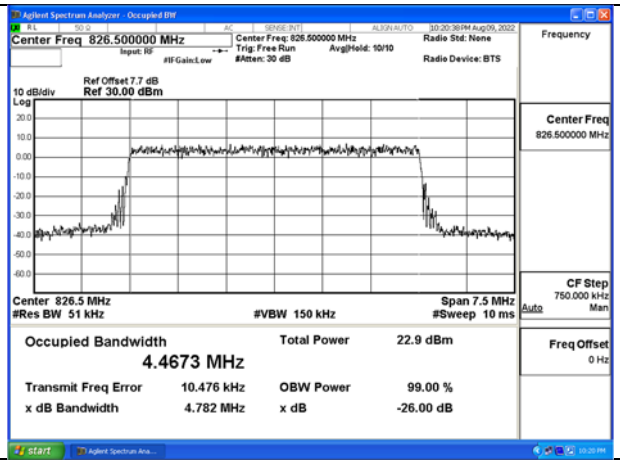


Fig.7

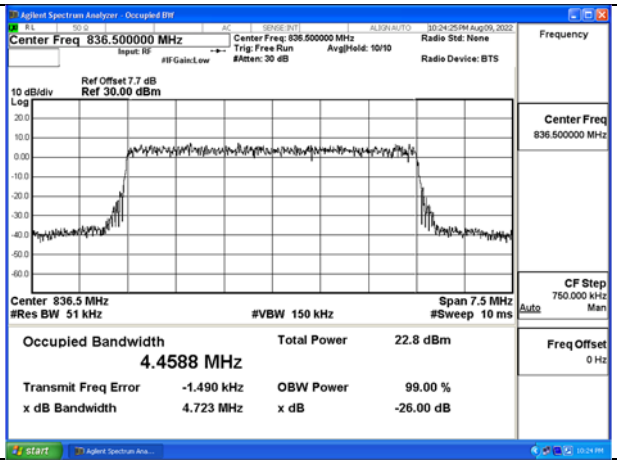


Fig.8

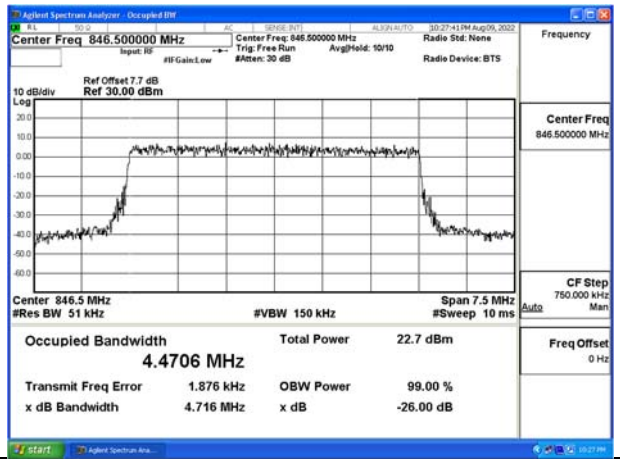


Fig.9

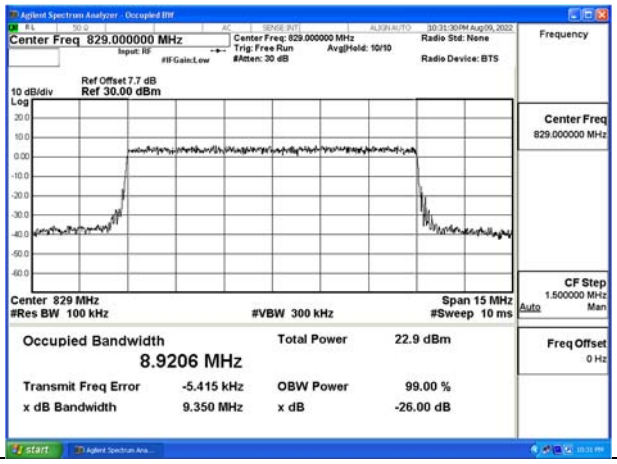


Fig.10

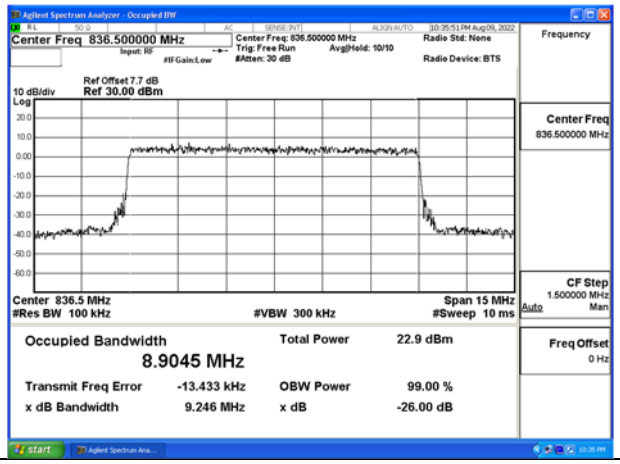


Fig.11

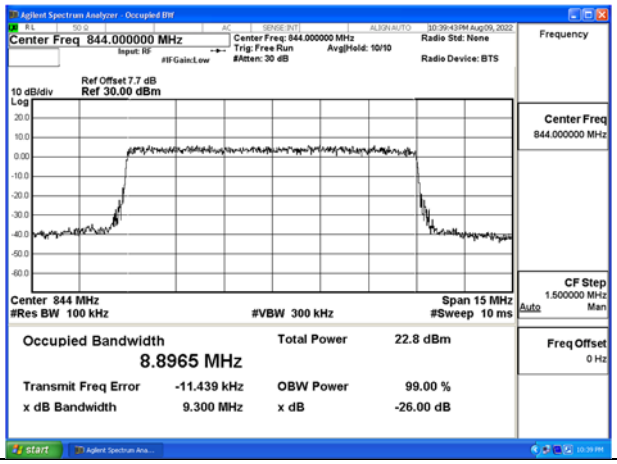


Fig.12

Test Mode: 16QAM

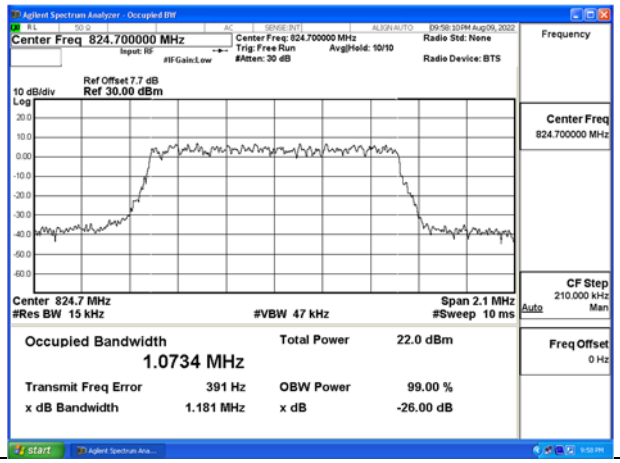


Fig.13

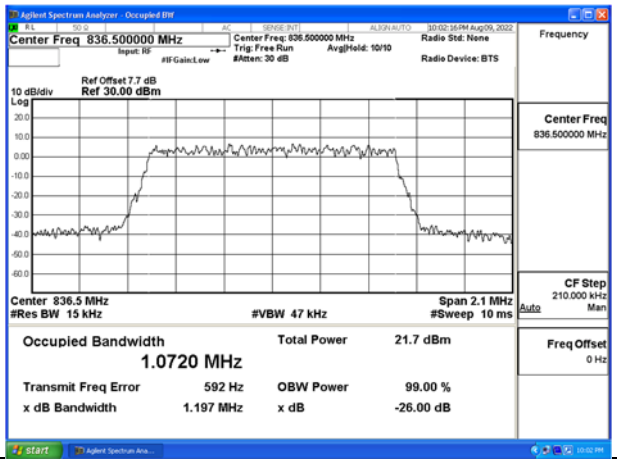


Fig.14

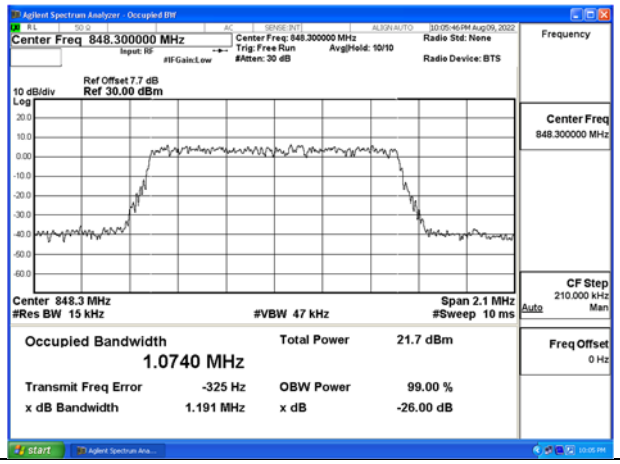


Fig.15

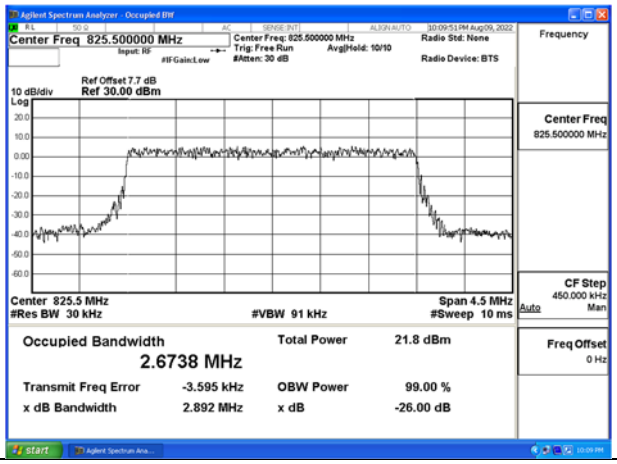


Fig.16

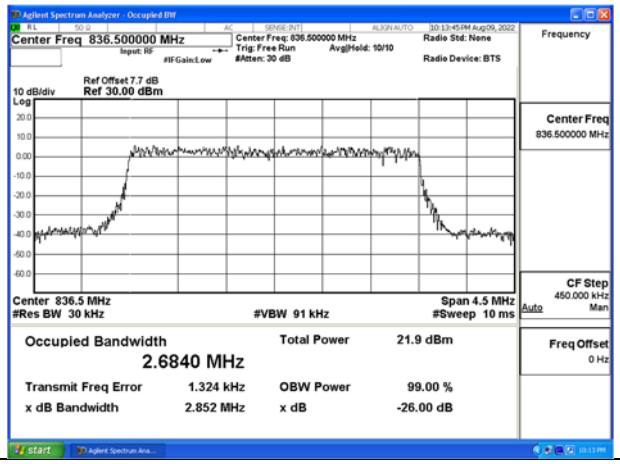
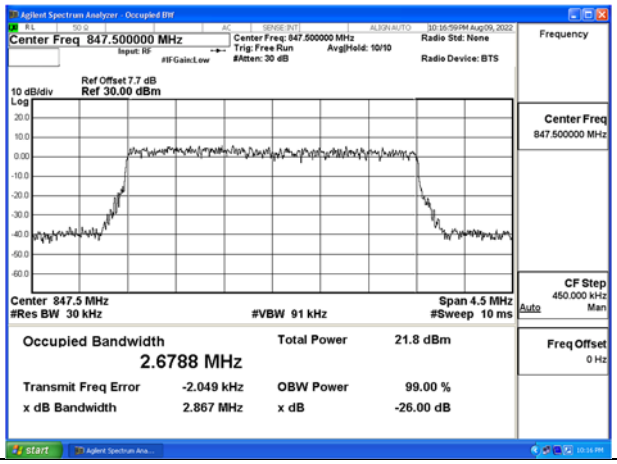


Fig.17



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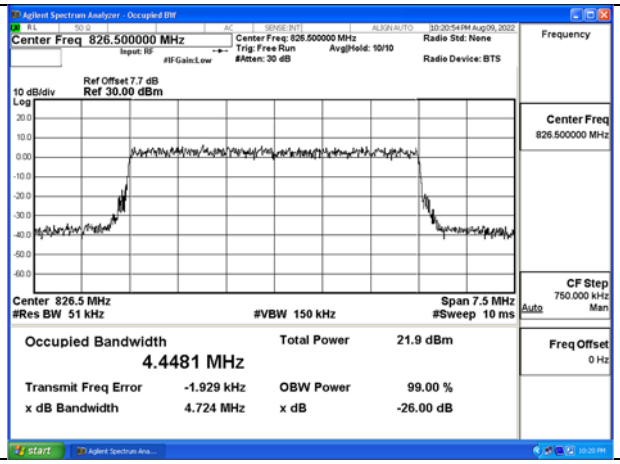
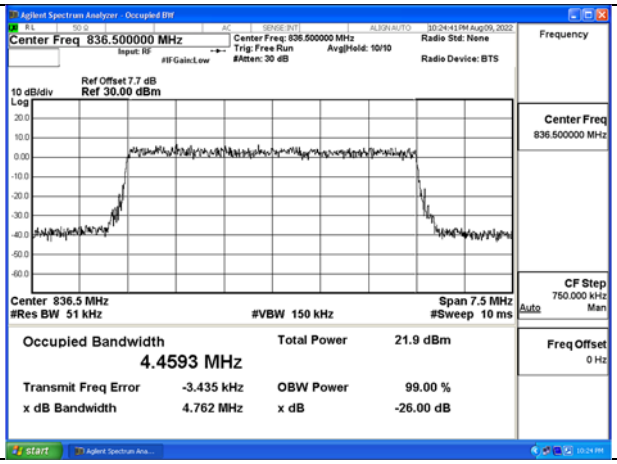


Fig.19



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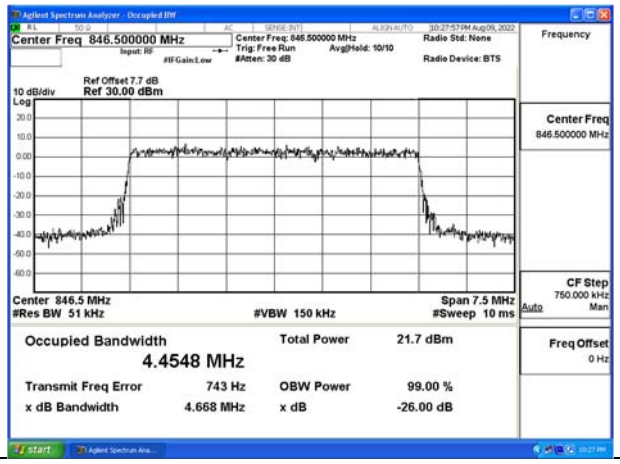

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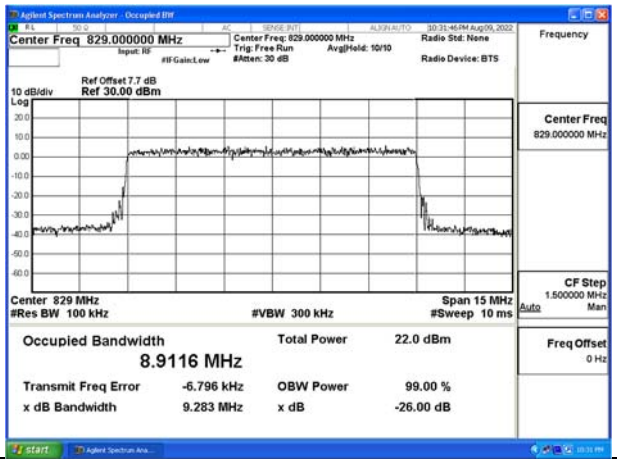

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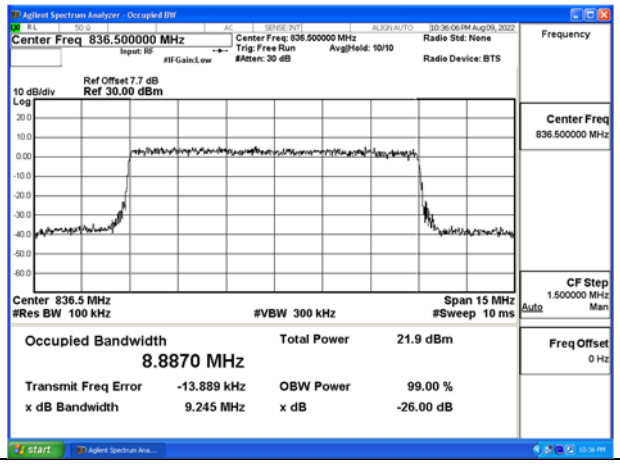

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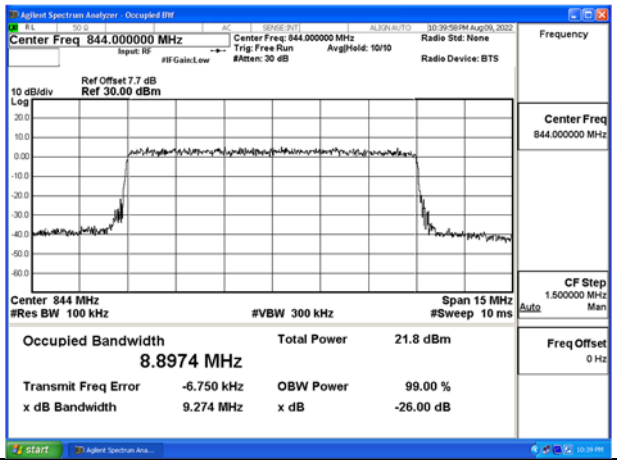
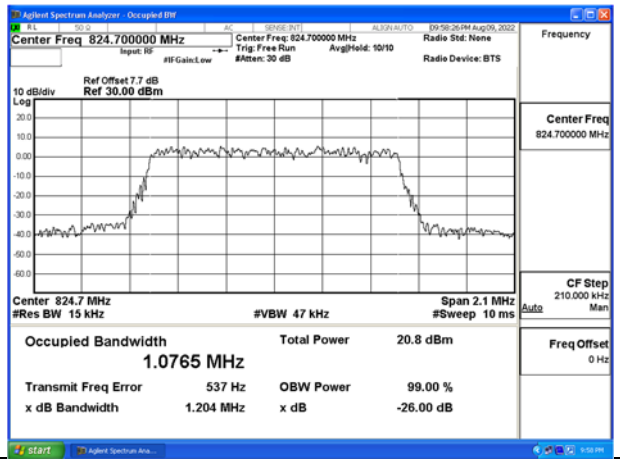


Fig.24

Test Mode: 64QAM



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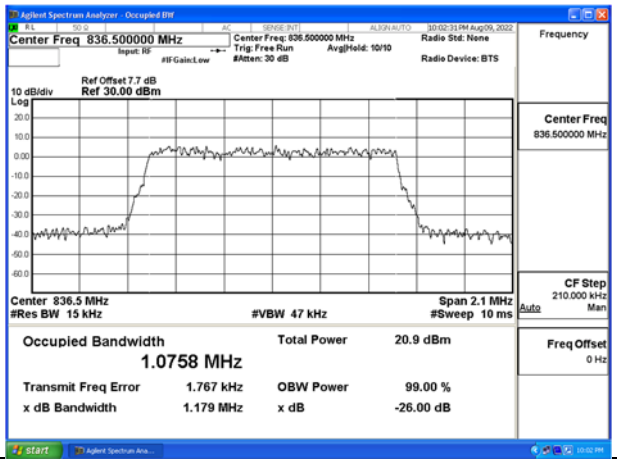

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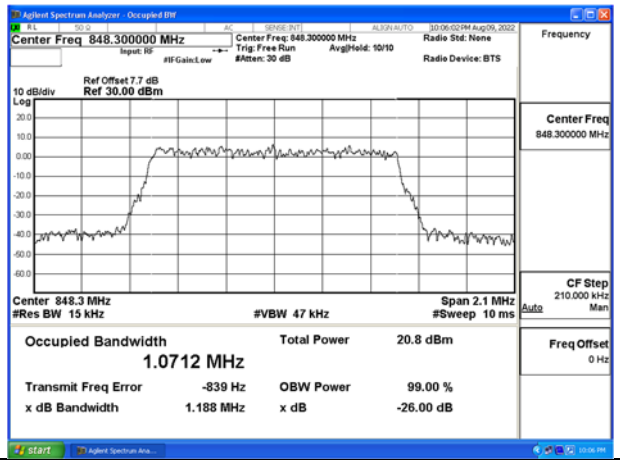


Fig.27

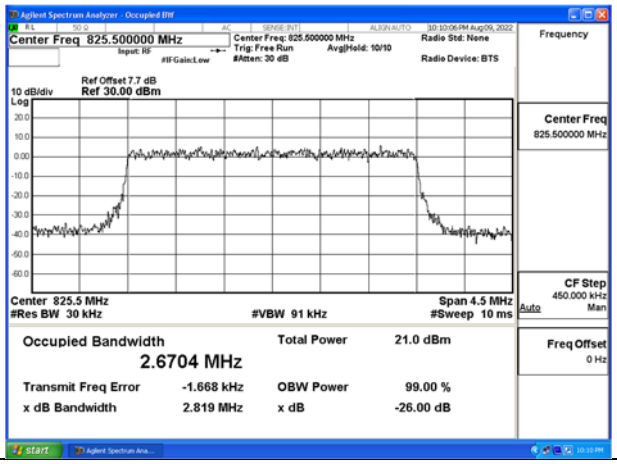
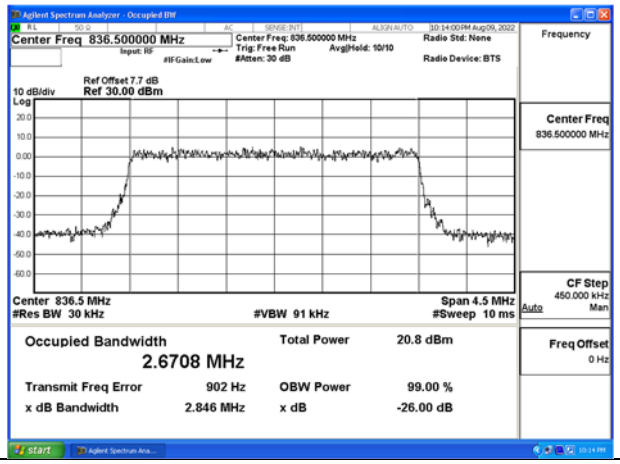


Fig.28



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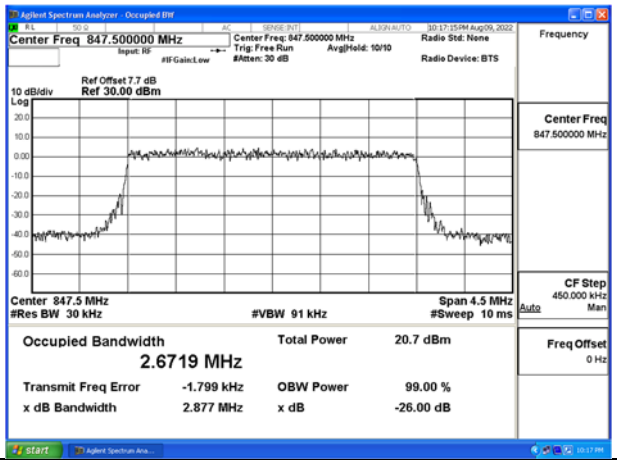


Fig.30

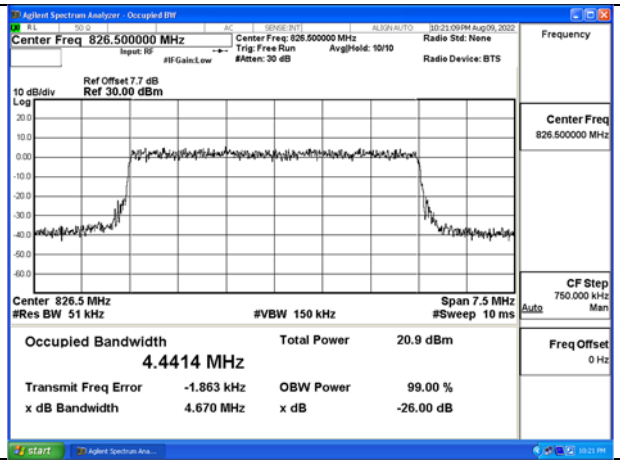


Fig.31

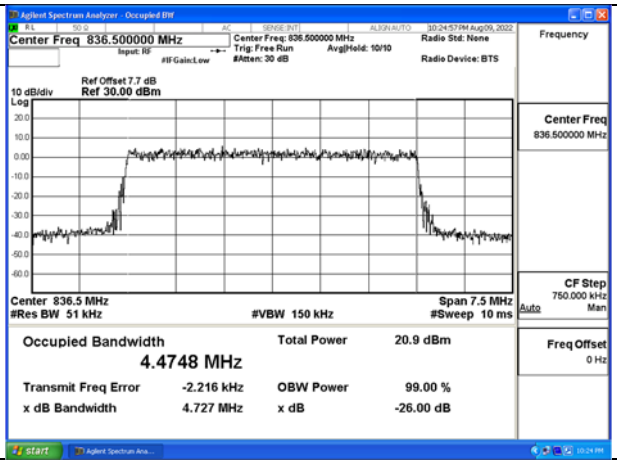
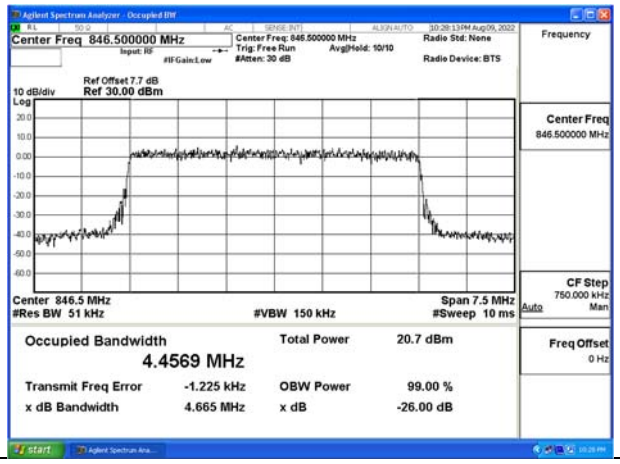


Fig.32



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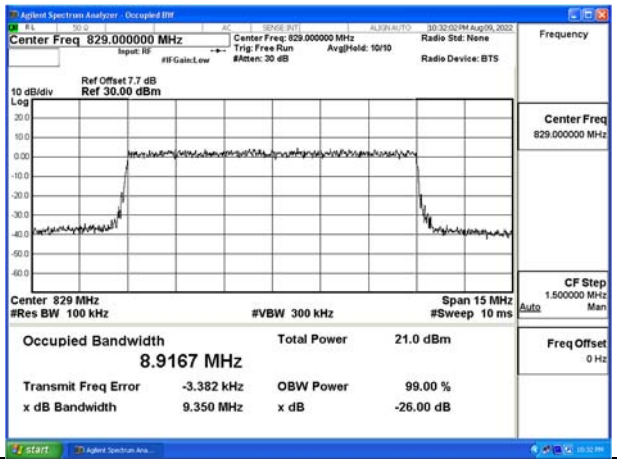

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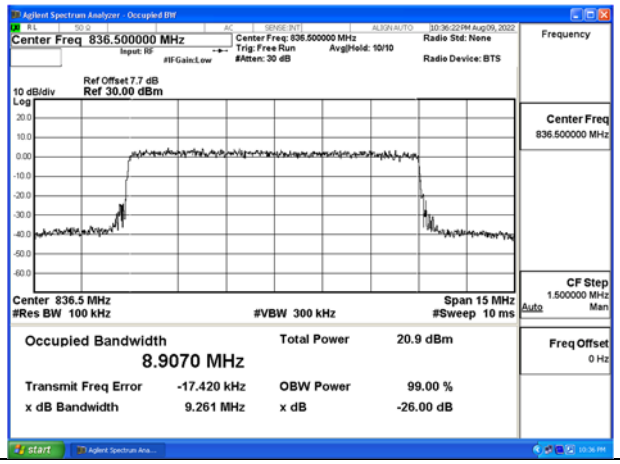


Fig.35

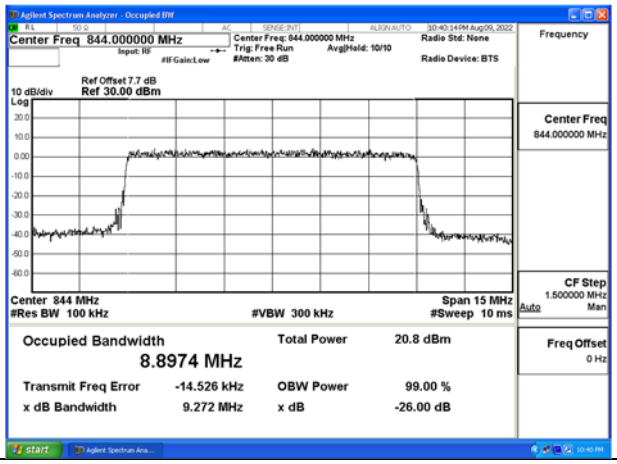


Fig.36

4 Peak-Average Ratio

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	QPSK	16-QAM	64-QAM
5	824.7	20407	1.4	1	5	Fig.1	Fig.2	Fig.3
5	824.7	20407	1.4	6	0	Fig.4	Fig.5	Fig.6
5	836.5	20525	1.4	1	5	Fig.7	Fig.8	Fig.9
5	836.5	20525	1.4	6	0	Fig.10	Fig.11	Fig.12
5	848.3	20643	1.4	1	5	Fig.13	Fig.14	Fig.15
5	848.3	20643	1.4	6	0	Fig.16	Fig.17	Fig.18
5	825.5	20415	3	1	14	Fig.19	Fig.20	Fig.21
5	825.5	20415	3	15	0	Fig.22	Fig.23	Fig.24
5	836.5	20525	3	1	14	Fig.25	Fig.26	Fig.27
5	836.5	20525	3	15	0	Fig.28	Fig.29	Fig.30
5	847.5	20635	3	1	14	Fig.31	Fig.32	Fig.33
5	847.5	20635	3	15	0	Fig.34	Fig.35	Fig.36
5	826.5	20425	5	1	24	Fig.37	Fig.38	Fig.39
5	826.5	20425	5	25	0	Fig.40	Fig.41	Fig.42
5	836.5	20525	5	1	24	Fig.43	Fig.44	Fig.45
5	836.5	20525	5	25	0	Fig.46	Fig.47	Fig.48
5	846.5	20625	5	1	24	Fig.49	Fig.50	Fig.51
5	846.5	20625	5	25	0	Fig.52	Fig.53	Fig.54
5	829	20450	10	1	49	Fig.55	Fig.56	Fig.57
5	829	20450	10	50	0	Fig.58	Fig.59	Fig.60
5	836.5	20525	10	1	49	Fig.61	Fig.62	Fig.63
5	836.5	20525	10	50	0	Fig.64	Fig.65	Fig.66
5	844	20600	10	1	49	Fig.67	Fig.68	Fig.69
5	844	20600	10	50	0	Fig.70	Fig.71	Fig.72

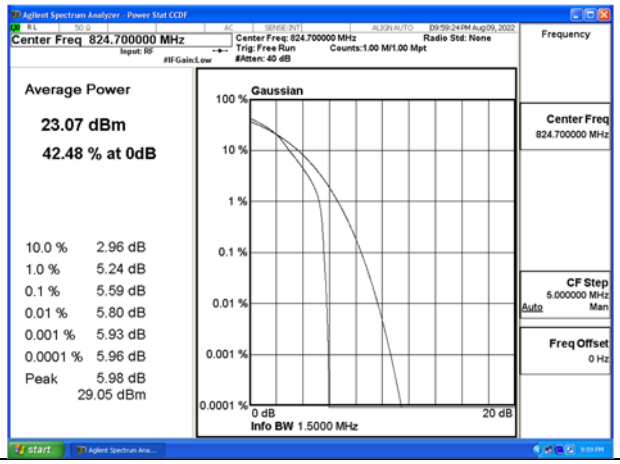


Fig.1

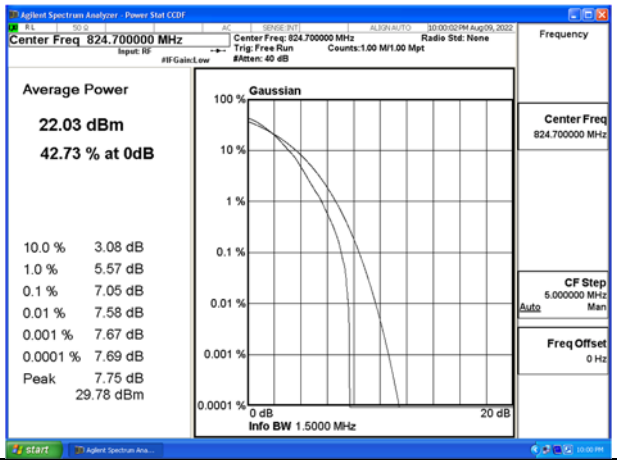


Fig.2

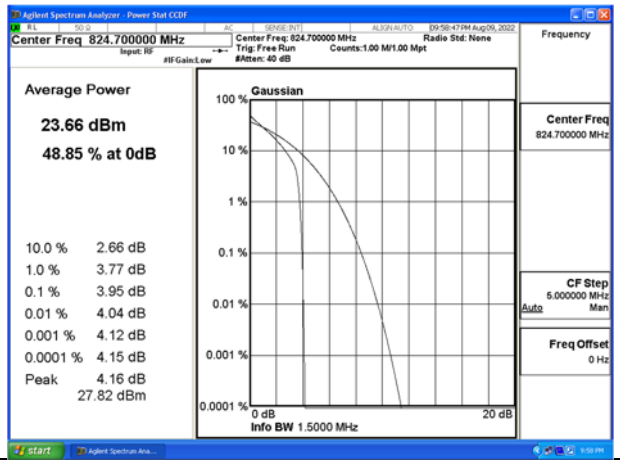


Fig.3

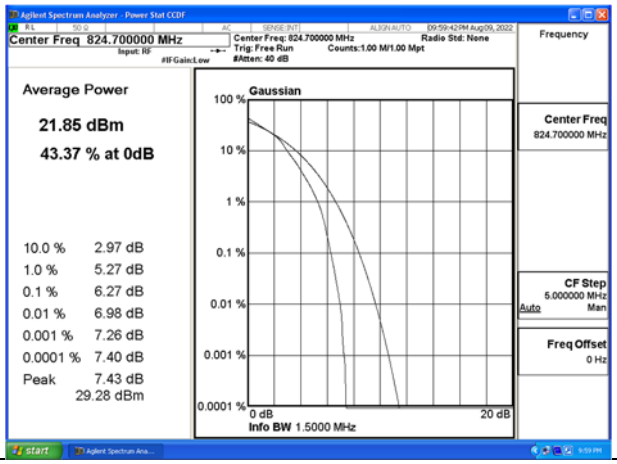


Fig.4

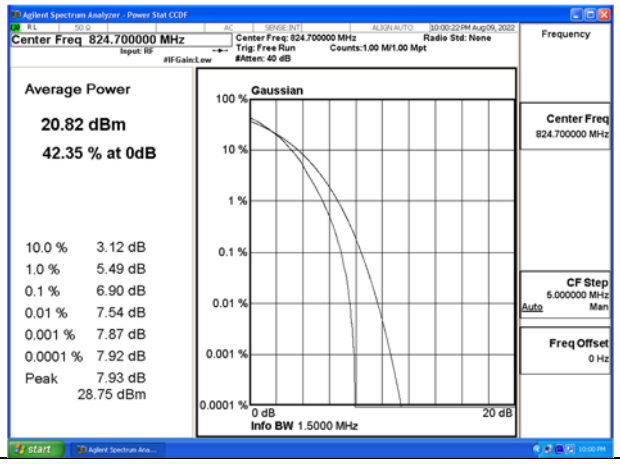


Fig.5

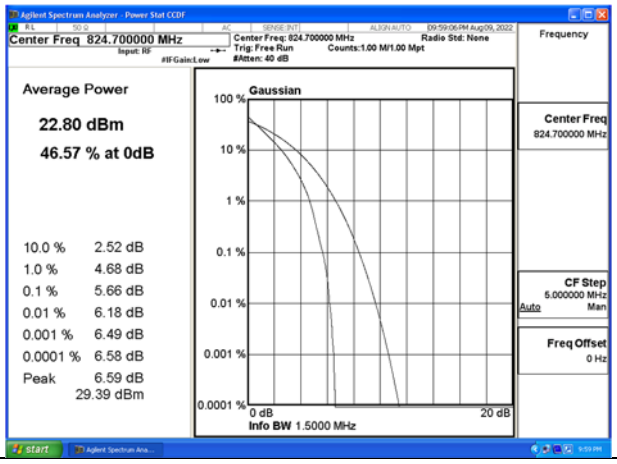


Fig.6

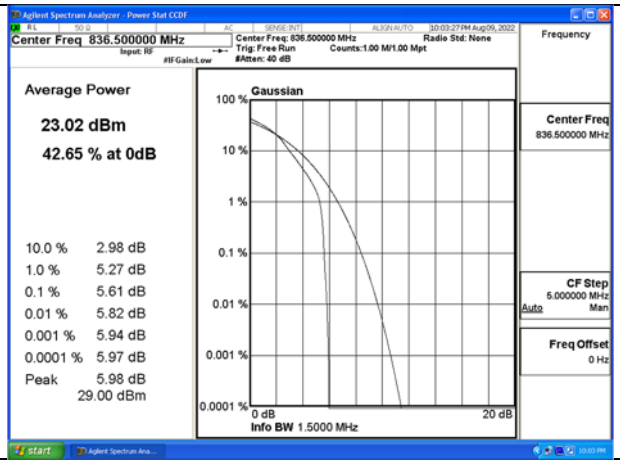


Fig.7

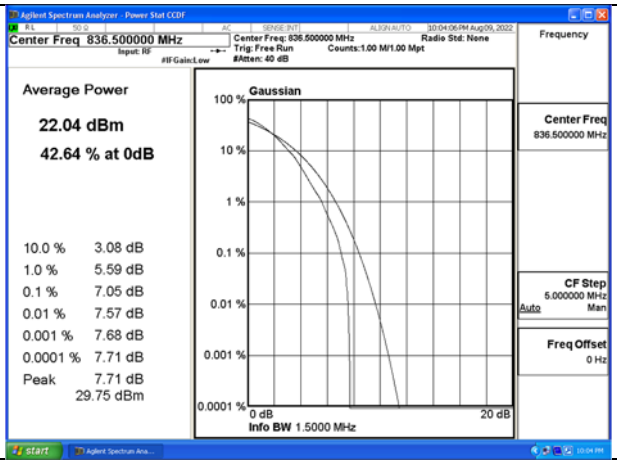


Fig.8

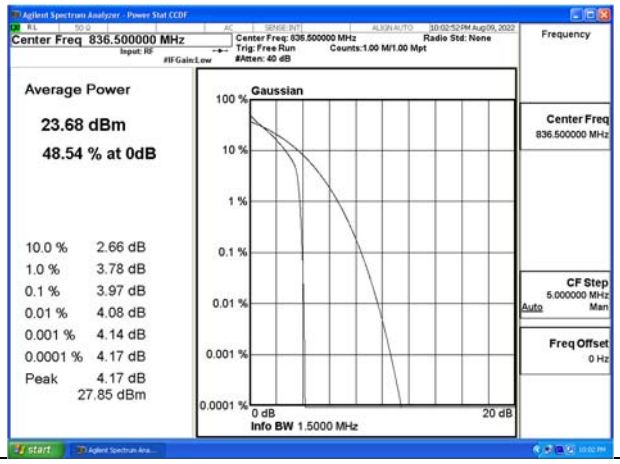


Fig.9

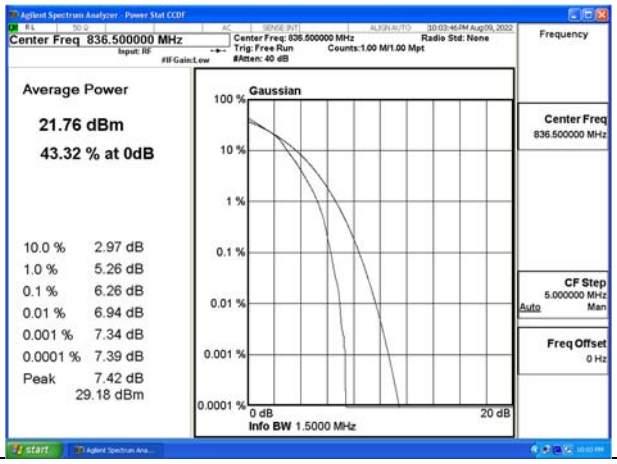


Fig.10

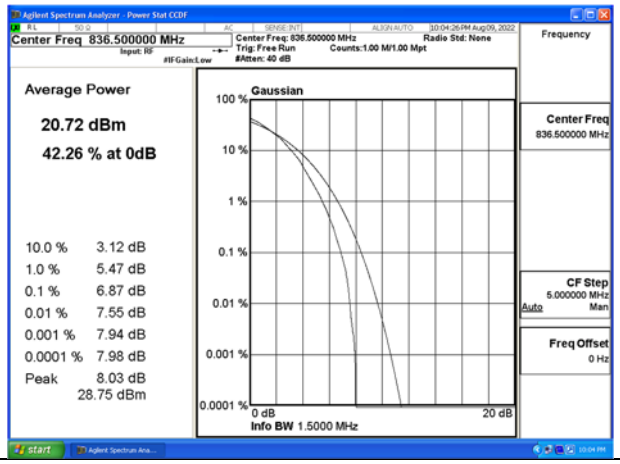


Fig.11

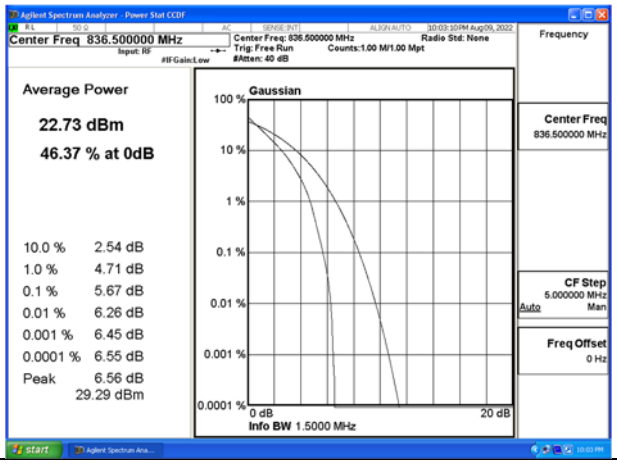


Fig.12

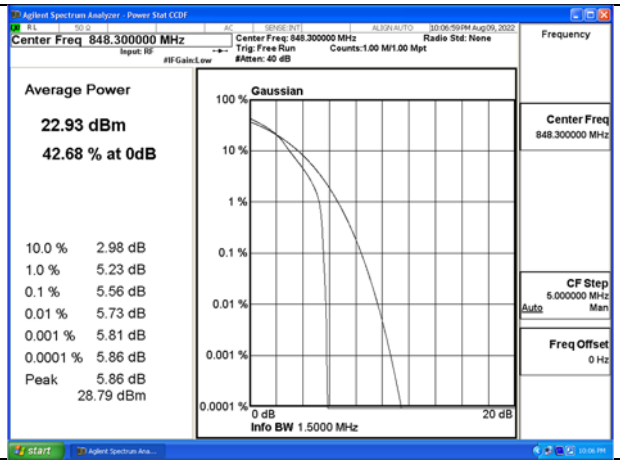


Fig.13

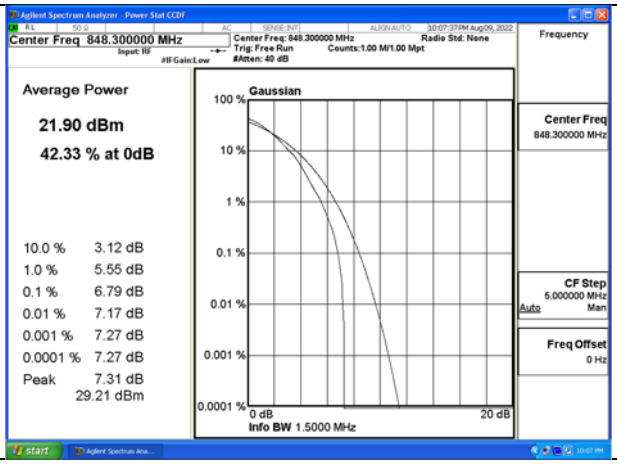


Fig.14

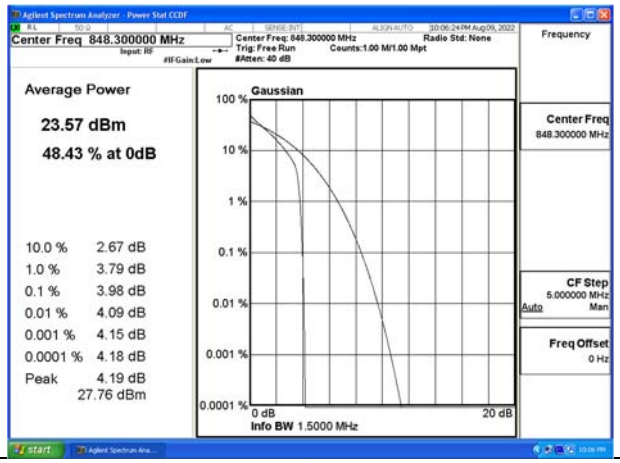


Fig.15

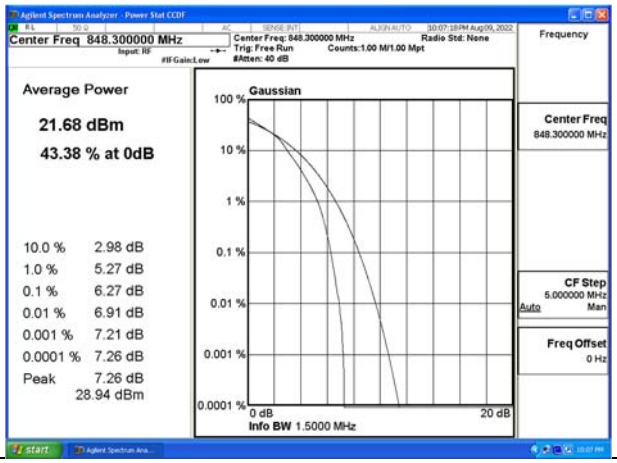


Fig.16

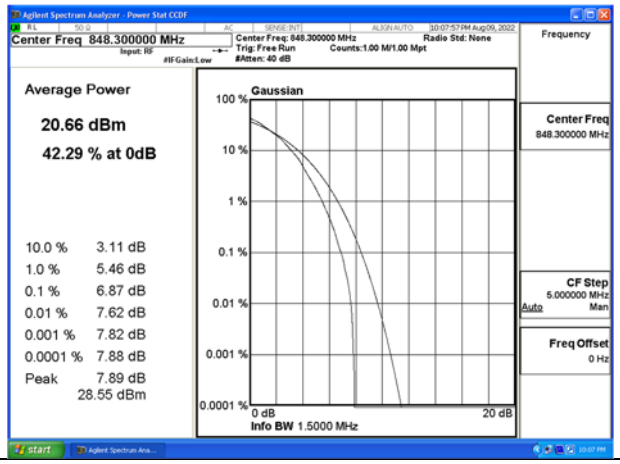


Fig.17

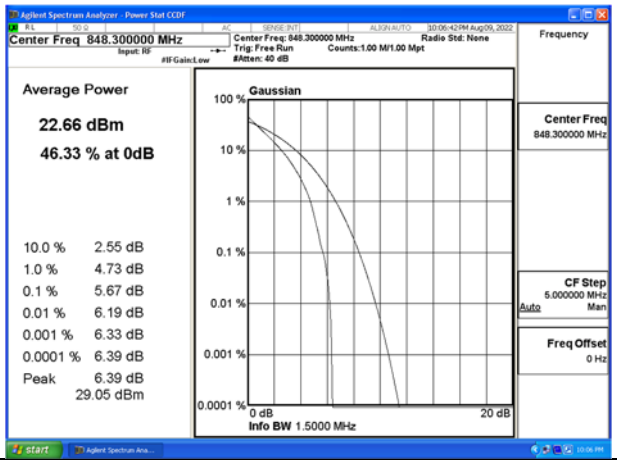


Fig.18

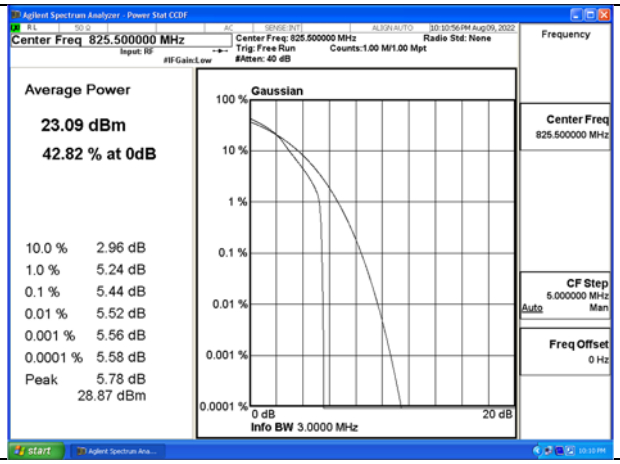
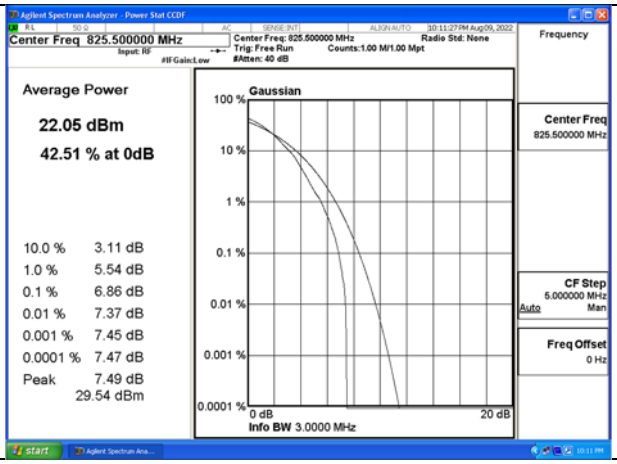


Fig.19



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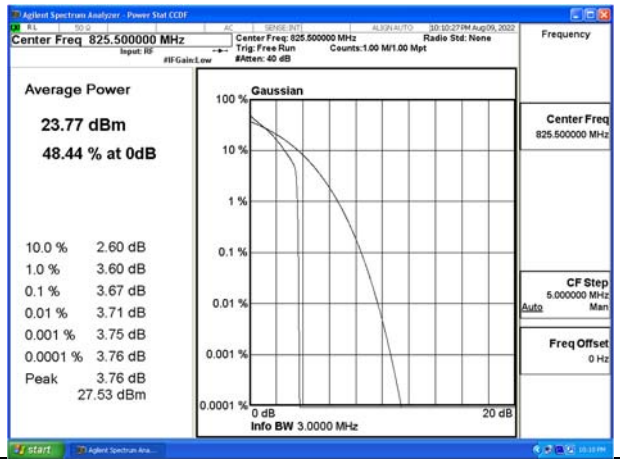

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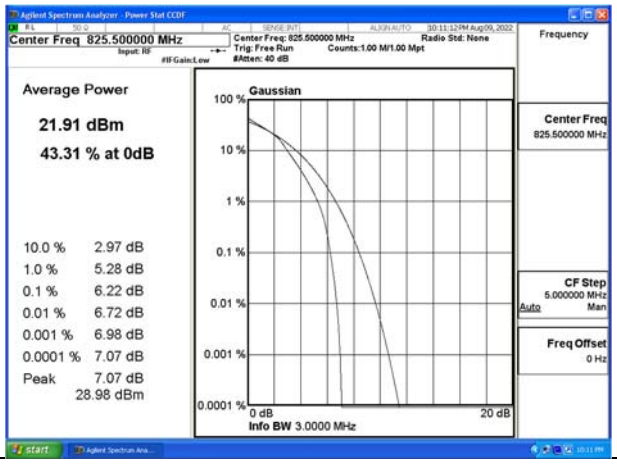

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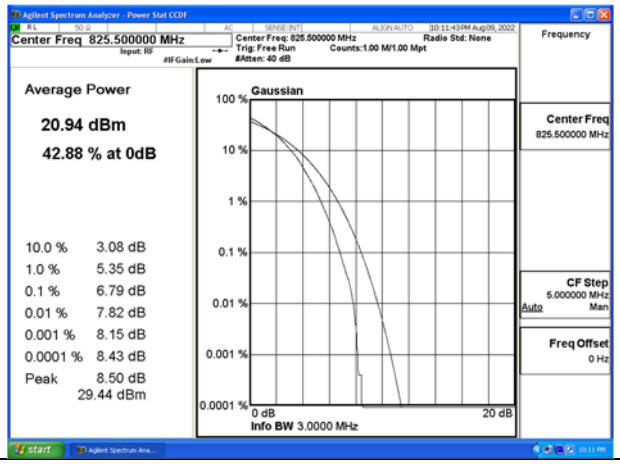

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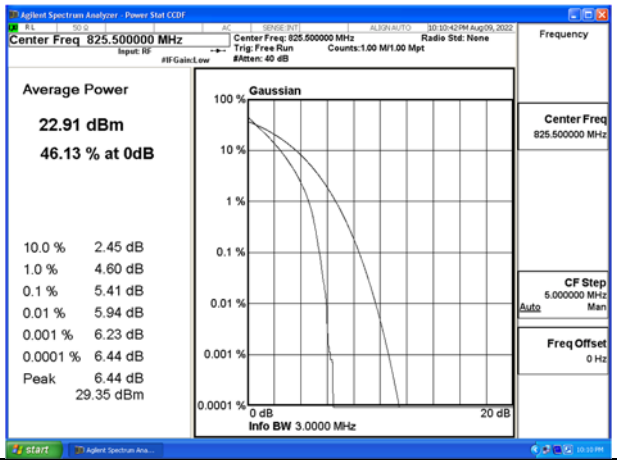

Fig.24