

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	23.27
				1	3	23.29
				1	5	23.30
				3	0	23.38
				3	1	23.47
				3	3	23.36
	836.5	20525		6	0	22.40
				1	0	22.96
				1	3	23.07
				1	5	23.00
				3	0	23.12
				3	1	23.12
	848.3	20643		3	3	23.01
				6	0	21.99
				1	0	23.19
				1	3	23.15
				1	5	23.21
				3	0	23.27
16QAM	824.7	20407	3	1	23.22	
			3	3	23.16	
			6	0	22.19	
			1	0	22.40	
			1	3	22.41	
			1	5	22.48	
	836.5	20525	3	0	22.44	
			3	1	22.50	
			3	3	22.45	
			6	0	21.29	
			1	0	22.08	
			1	3	22.02	
	848.3	20643	1	5	22.06	
			3	0	22.35	
			3	1	22.33	
			3	3	22.18	
			6	0	20.99	
			1	0	22.29	
1	3	22.33				
1	5	22.28				
3	0	22.13				
3	1	22.19				
3	3	22.21				
6	0	21.24				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	824.7	20407	1.4	1	0	21.30
				1	3	21.24
				1	5	21.37
				3	0	21.26
				3	1	21.24
				3	3	21.28
	6	0		21.30		
	836.5	20525		1	0	21.02
				1	3	21.12
				1	5	20.99
				3	0	21.00
				3	1	21.15
				3	3	21.03
	6	0		21.08		
	848.3	20643		1	0	21.20
				1	3	21.25
				1	5	21.30
				3	0	21.31
				3	1	21.26
				3	3	21.20
				6	0	21.35

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	22.86
				1	8	22.83
				1	14	22.84
				8	0	21.95
				8	4	21.89
				8	7	21.85
	15	0		21.91		
	836.5	20525		1	0	23.06
				1	8	23.11
				1	14	23.11
				8	0	22.05
				8	4	22.02
				8	7	22.06
	15	0		22.09		
	847.5	20635		1	0	23.23
1			8	23.19		
1			14	23.18		
8			0	22.25		
8			4	22.25		
8			7	22.20		
16QAM	825.5	20415	15	0	22.20	
			1	0	22.43	
			1	8	22.52	
			1	14	22.56	
			8	0	21.03	
			8	4	21.12	
	8	7	21.11			
	15	0	20.95			
	836.5	20525	1	0	22.19	
			1	8	22.17	
			1	14	22.25	
			8	0	21.05	
			8	4	21.10	
			8	7	21.11	
	15	0	21.01			
847.5	20635	1	0	22.35		
		1	8	22.22		
		1	14	22.32		
		8	0	21.24		
		8	4	21.22		
		8	7	21.22		
15	0	21.31				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	825.5	20415	3	1	0	20.94
				1	8	20.97
				1	14	20.95
				8	0	20.96
				8	4	20.95
				8	7	20.94
				15	0	20.96
	836.5	20525		1	0	20.99
				1	8	21.02
				1	14	21.00
				8	0	21.01
				8	4	21.00
				8	7	20.98
				15	0	21.01
	847.5	20635		1	0	21.31
				1	8	21.25
				1	14	21.30
				8	0	21.27
				8	4	21.26
				8	7	21.27
				15	0	21.27

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	22.80
				1	12	22.85
				1	24	22.80
				12	0	21.87
				12	7	21.96
				12	13	21.91
	25	0		21.99		
	836.5	20525		1	0	22.96
				1	12	22.96
				1	24	22.94
				12	0	22.07
				12	7	22.02
				12	13	22.01
	25	0		22.04		
	846.5	20625		1	0	23.10
				1	12	23.10
				1	24	23.13
				12	0	22.18
12			7	22.20		
12			13	22.21		
16QAM	826.5	20425	25	0	22.21	
			1	0	21.73	
			1	12	21.77	
			1	24	21.76	
			12	0	20.91	
			12	7	20.86	
	12	13	20.93			
	25	0	20.92			
	836.5	20525	1	0	22.24	
			1	12	22.27	
			1	24	22.27	
			12	0	21.09	
			12	7	21.02	
			12	13	21.06	
	25	0	21.08			
	846.5	20625	1	0	22.15	
			1	12	22.13	
			1	24	22.10	
12			0	21.03		
12			7	21.13		
12			13	21.12		
25	0	21.32				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	826.5	20425	5	1	0	20.97
				1	12	20.96
				1	24	20.95
				12	0	20.95
				12	7	21.02
				12	13	21.03
	836.5	20525		25	0	20.93
				1	0	21.02
				1	12	21.02
				1	24	21.03
				12	0	21.09
				12	7	21.08
	846.5	20625		12	13	21.10
				25	0	21.12
				1	0	21.20
				1	12	21.21
				1	24	21.21
				12	0	21.27
				12	7	21.24
				12	13	21.24
				25	0	21.22

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	22.80
				1	25	22.97
				1	49	22.96
				25	0	21.89
				25	12	21.91
				25	25	21.89
	836.5	20525		50	0	21.95
				1	0	22.99
				1	25	23.11
				1	49	23.08
				25	0	22.06
				25	12	22.05
	844	20600		25	25	22.05
				50	0	22.11
				1	0	23.03
				1	25	23.09
				1	49	23.12
				25	0	22.04
16QAM	829	20450	25	12	22.19	
			25	25	22.21	
			50	0	22.18	
			1	0	22.43	
			1	25	22.54	
			1	49	22.54	
	836.5	20525	25	0	21.01	
			25	12	21.07	
			25	25	21.04	
			50	0	21.00	
			1	0	22.11	
			1	25	22.22	
	844	20600	1	49	22.21	
			25	0	21.13	
			25	12	21.02	
			25	25	21.11	
			50	0	21.07	
			1	0	22.22	
			1	25	22.22	
			1	49	22.28	
			25	0	21.25	
			25	12	21.29	
			25	25	21.30	
			50	0	21.20	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
64QAM	829	20450	10	1	0	20.95	
				1	25	20.91	
				1	49	20.98	
				25	0	20.99	
				25	12	21.00	
				25	25	20.92	
	836.5	20525		50	0	20.99	
				1	0	21.07	
				1	25	21.07	
				1	49	21.15	
				25	0	21.12	
				25	12	21.14	
	844	20600		25	25	21.13	
				50	0	21.13	
				1	0	21.24	
				1	25	21.15	
				1	49	21.23	
				25	0	21.22	
					25	12	21.21
					25	25	21.21
					50	0	21.23

2 Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
5	824.7	20407	1.4	6	0	1.088	Fig.1	1.082	Fig.2	1.082	Fig.3
	836.5	20525		6	0	1.082	Fig.4	1.088	Fig.5	1.088	Fig.6
	848.3	20643		6	0	1.088	Fig.7	1.082	Fig.8	1.082	Fig.9
	825.5	20415	3	15	0	2.683	Fig.10	2.683	Fig.11	2.657	Fig.12
	836.5	20525		15	0	2.683	Fig.13	2.670	Fig.14	2.683	Fig.15
	847.5	20635		15	0	2.683	Fig.16	2.683	Fig.17	2.683	Fig.18
	826.5	20425	5	25	0	4.472	Fig.19	4.472	Fig.20	4.472	Fig.21
	836.5	20525		25	0	4.493	Fig.22	4.493	Fig.23	4.472	Fig.24
	846.5	20625		25	0	4.472	Fig.25	4.472	Fig.26	4.472	Fig.27
	829	20450	10	50	0	8.944	Fig.28	8.944	Fig.29	8.944	Fig.30
	836.5	20525		50	0	8.944	Fig.31	8.944	Fig.32	8.944	Fig.33
	844	20600		50	0	8.944	Fig.34	8.944	Fig.35	8.944	Fig.36

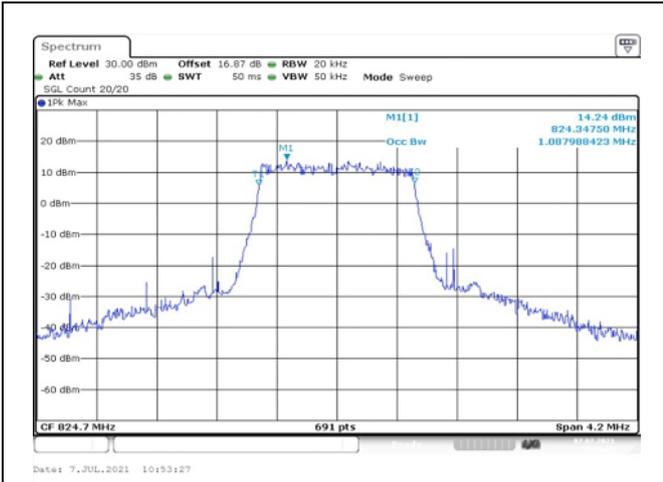


Fig.1

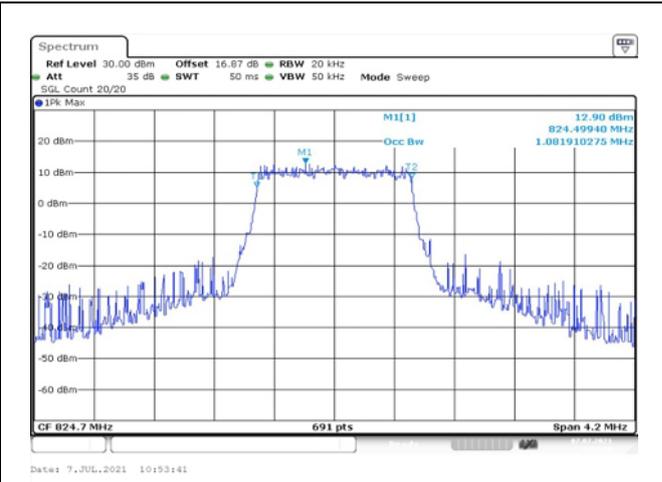


Fig.2

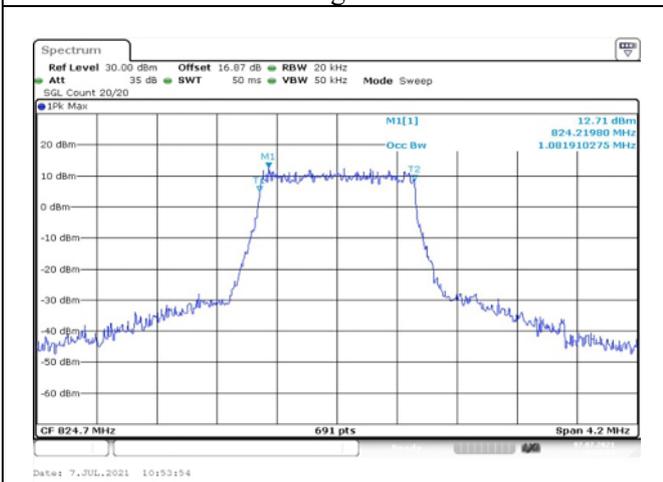


Fig.3

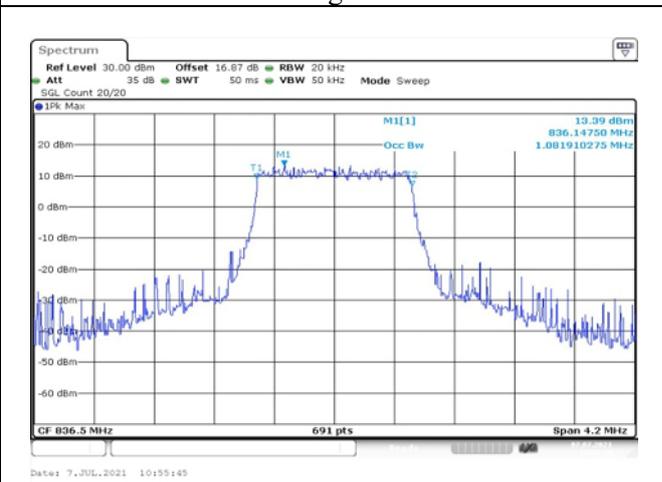


Fig.4

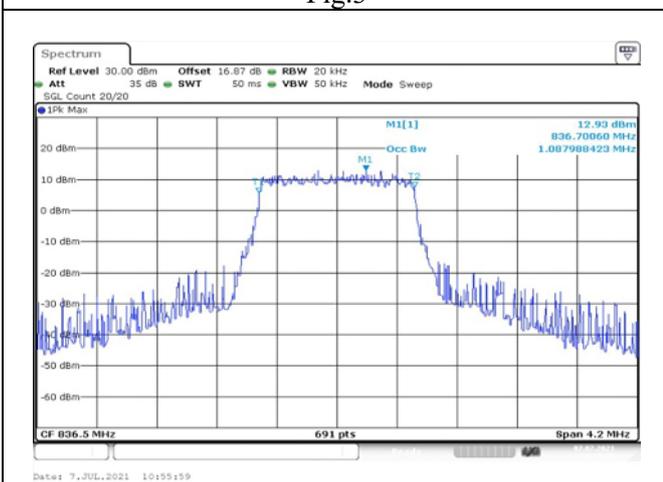


Fig.5

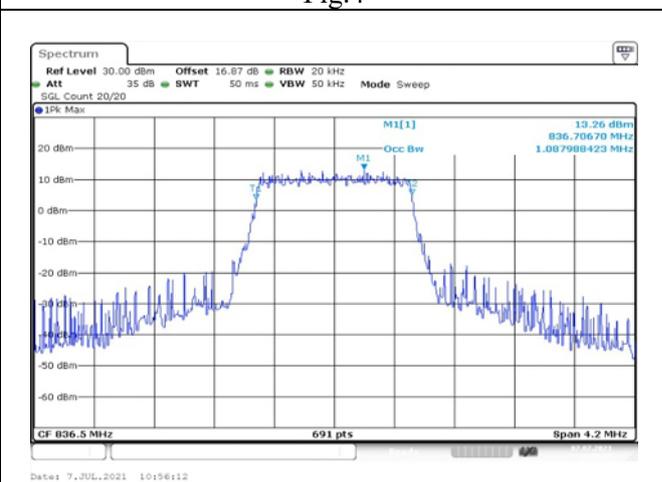


Fig.6

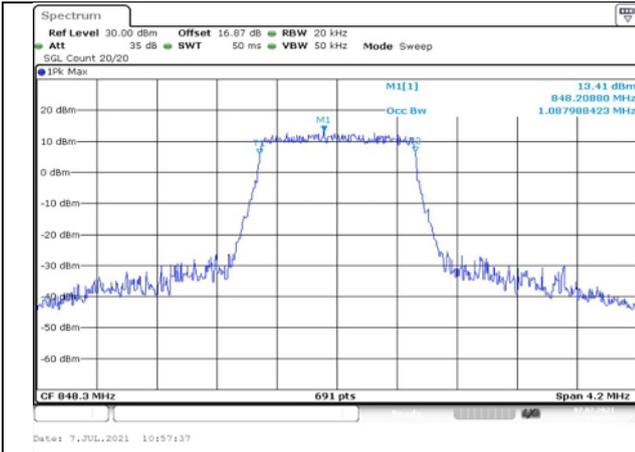


Fig.7

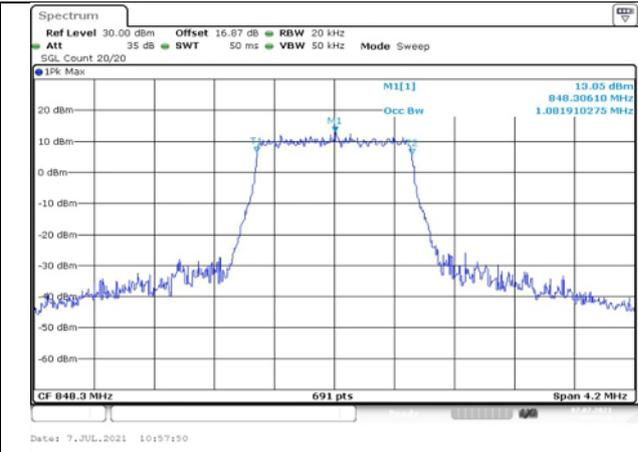


Fig.8

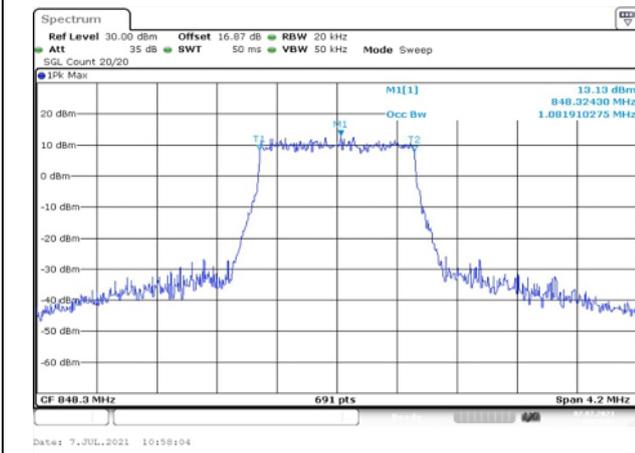


Fig.9

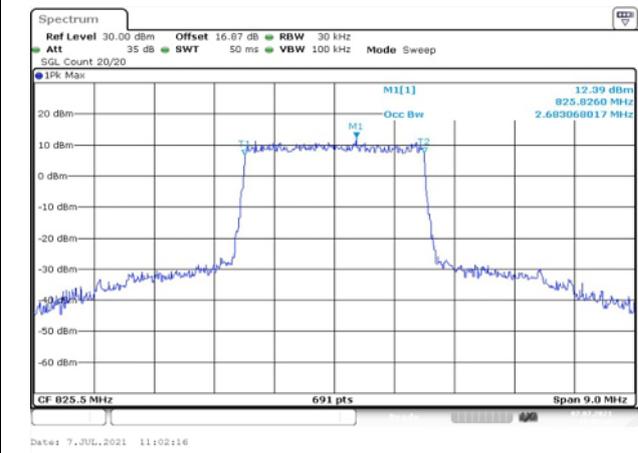


Fig.10

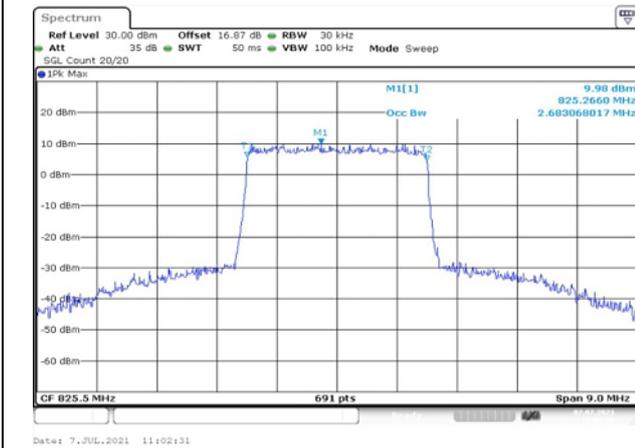


Fig.11

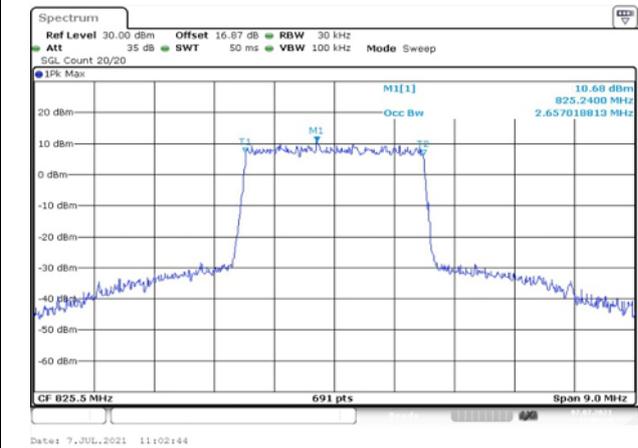


Fig.12

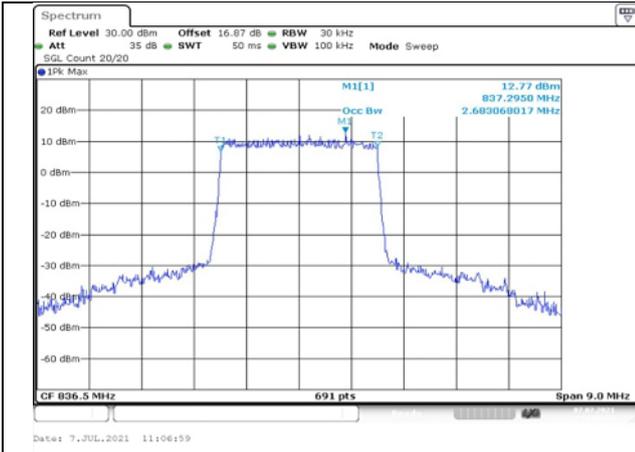


Fig.13

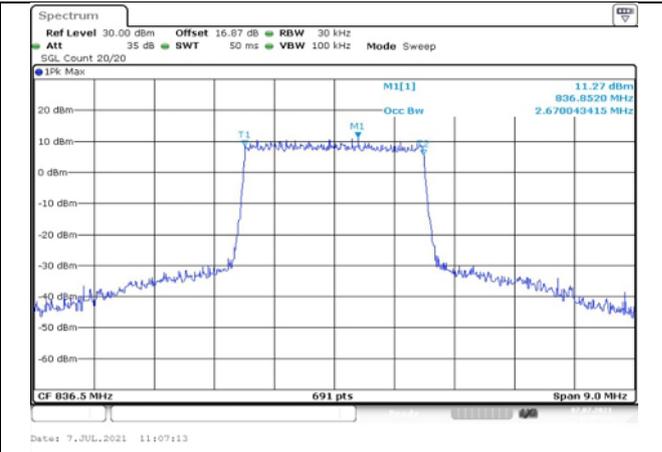


Fig.14

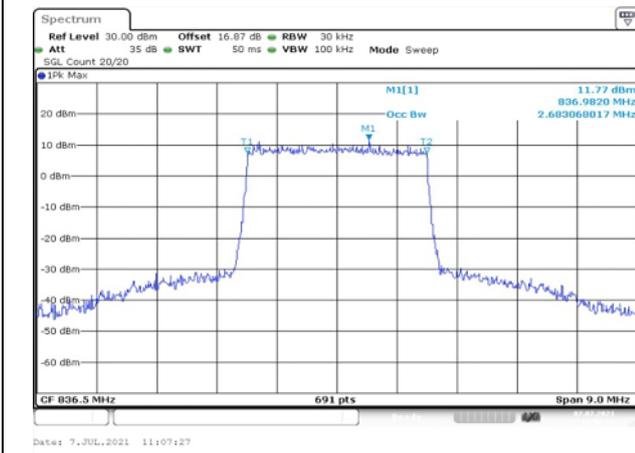


Fig.15

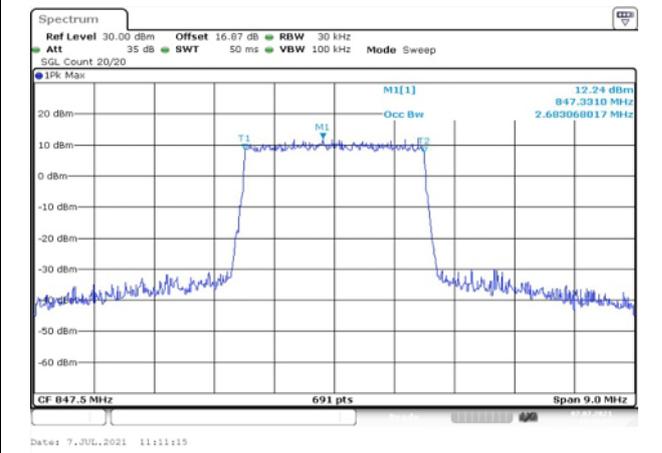


Fig.16

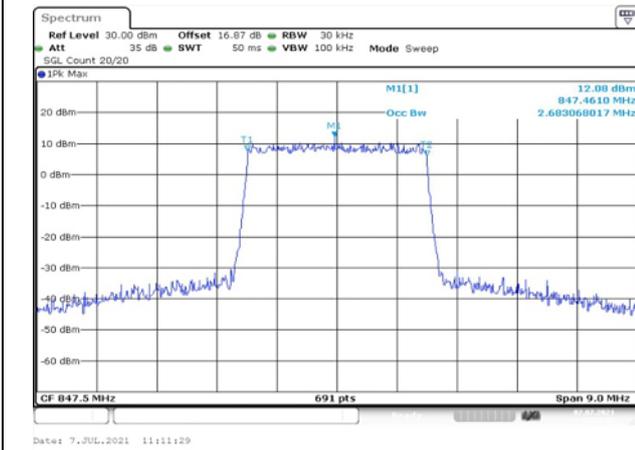


Fig.17

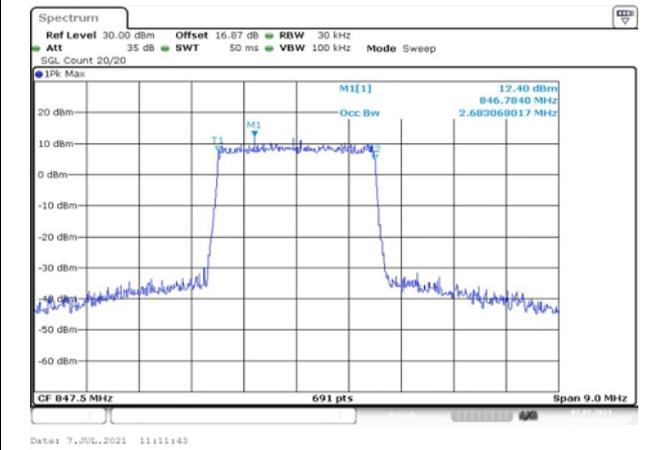


Fig.18

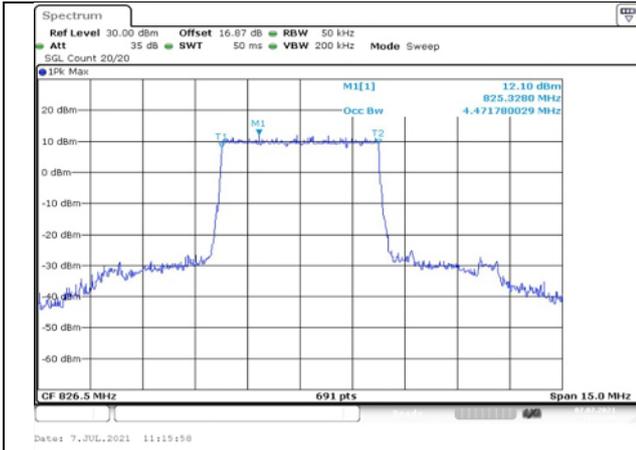


Fig.19

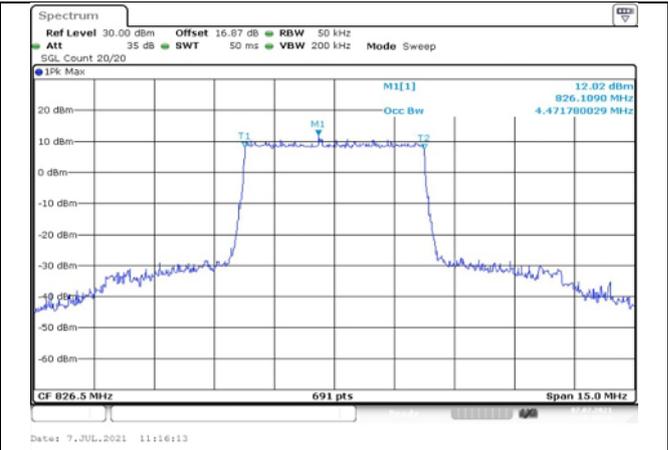


Fig.20

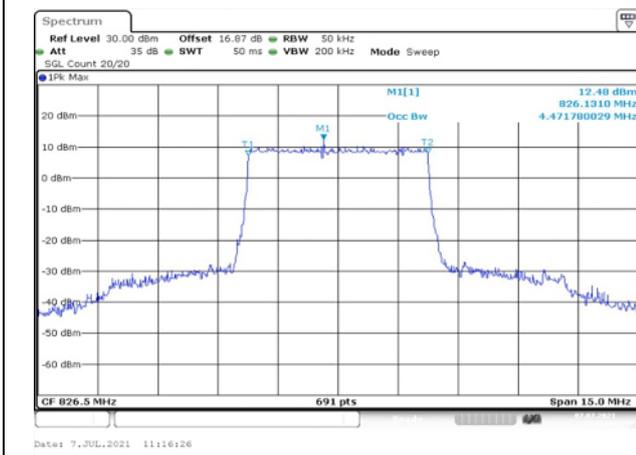


Fig.21

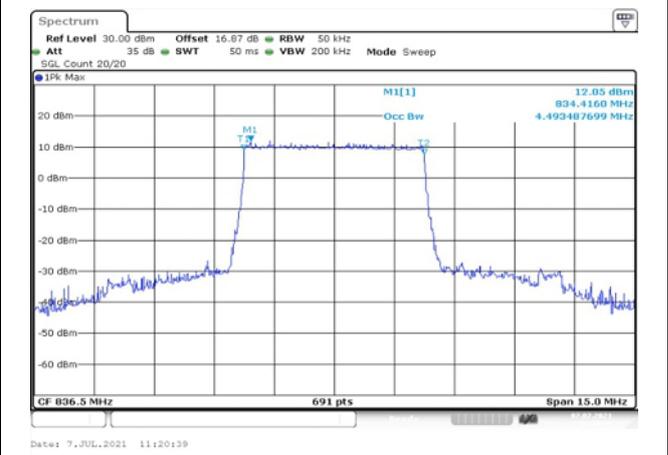


Fig.22

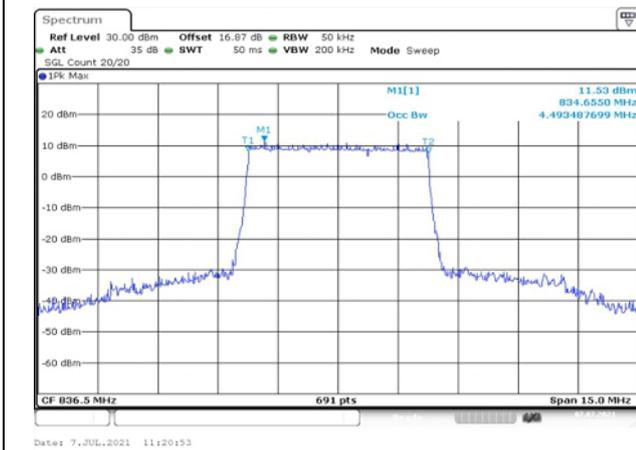


Fig.23

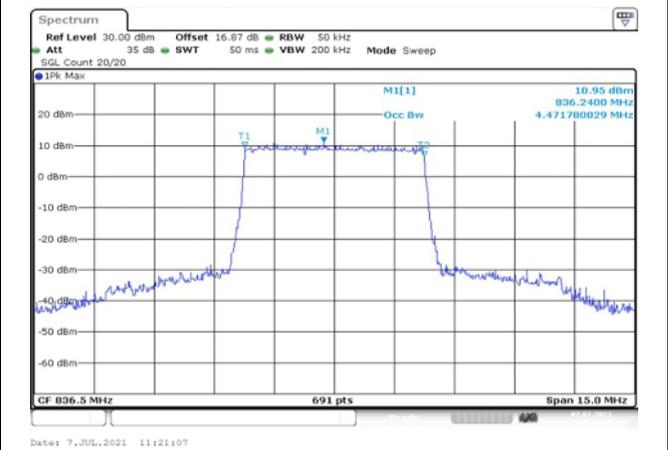


Fig.24

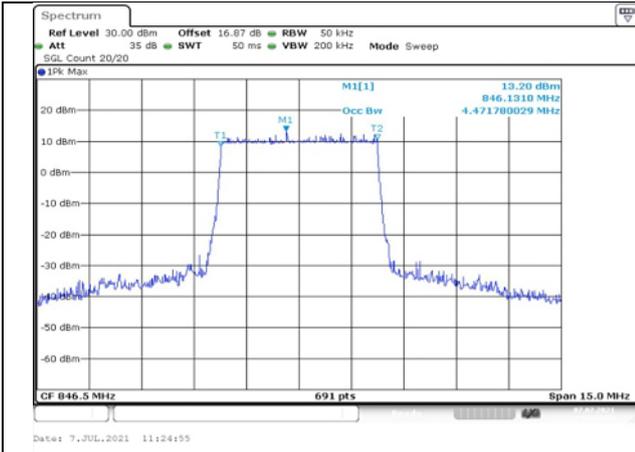


Fig.25

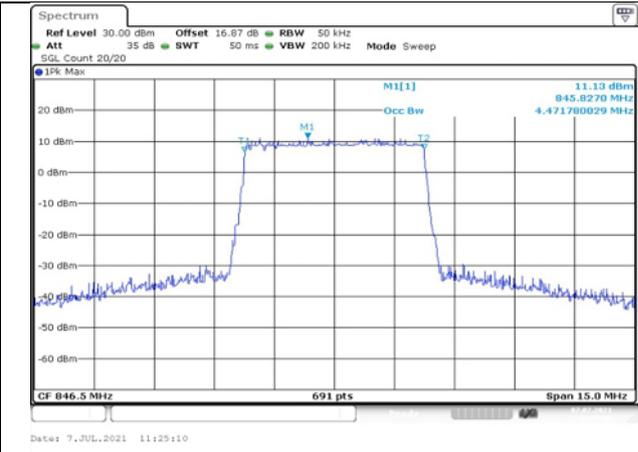


Fig.26

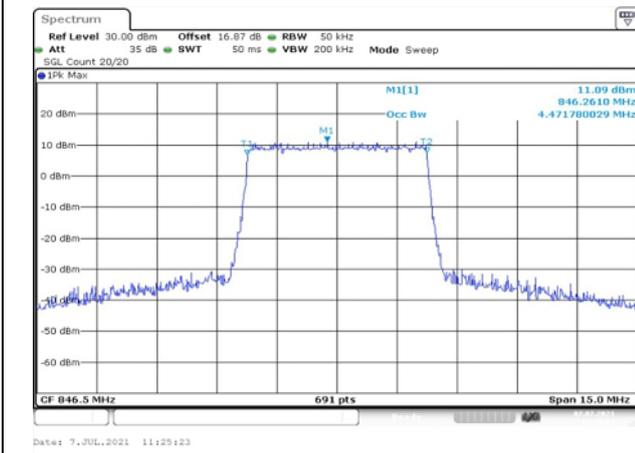


Fig.27

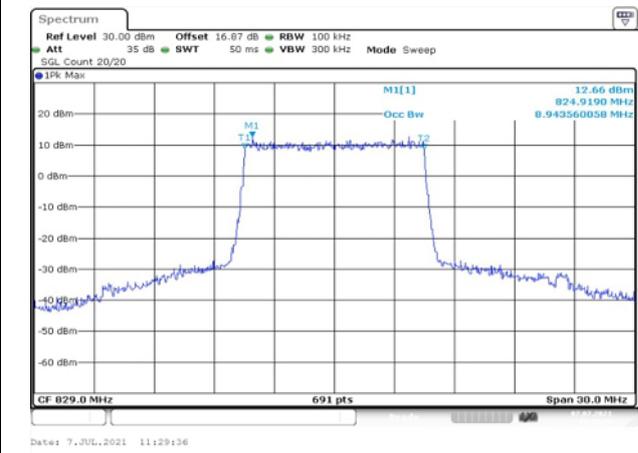


Fig.28

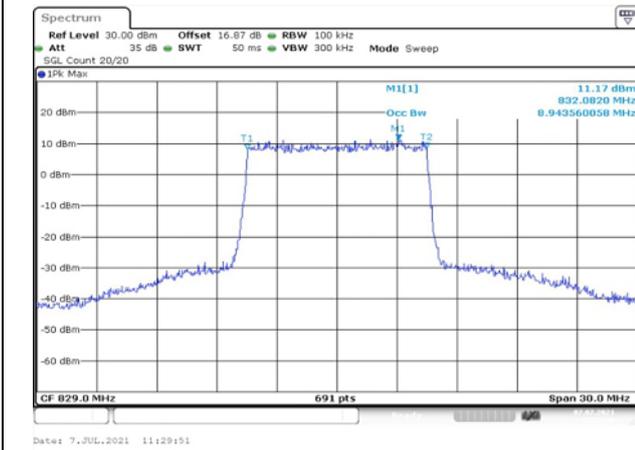


Fig.29

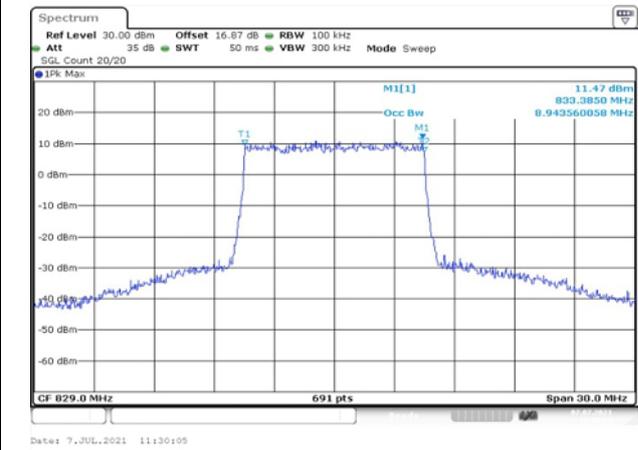


Fig.30

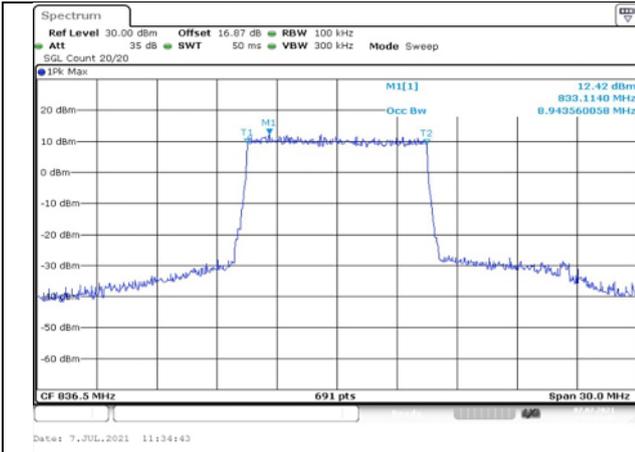


Fig.31

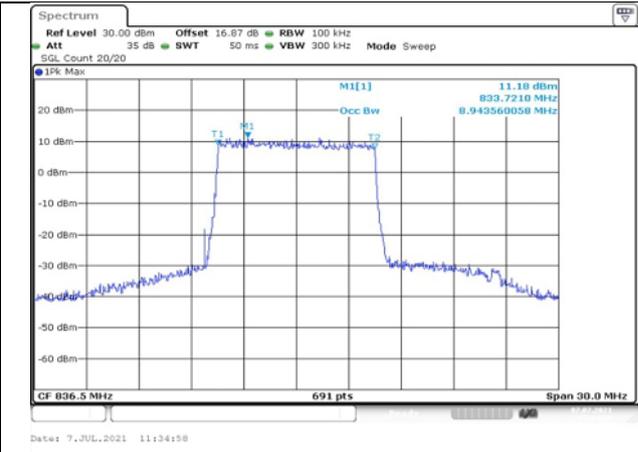


Fig.32

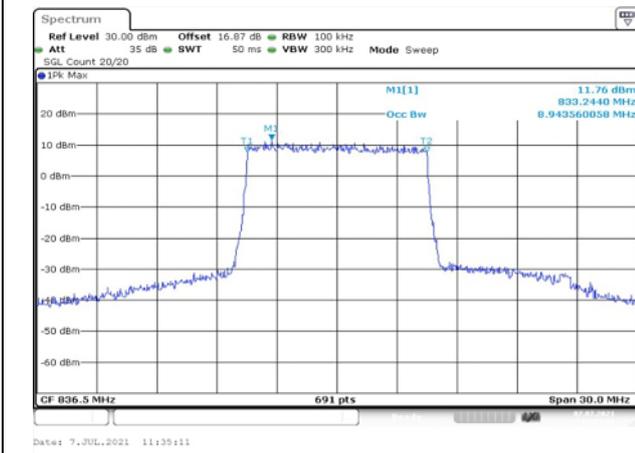


Fig.33

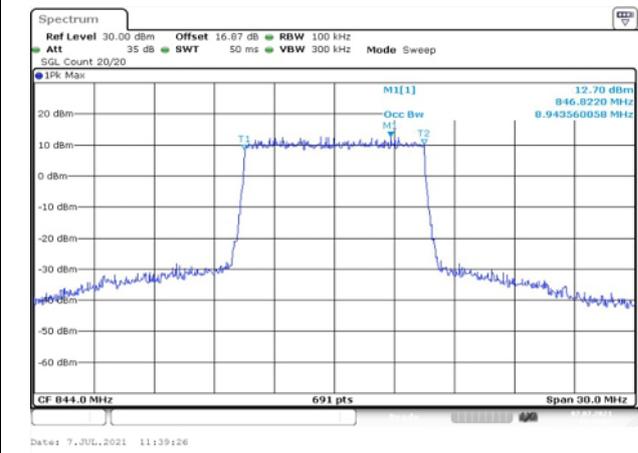


Fig.34

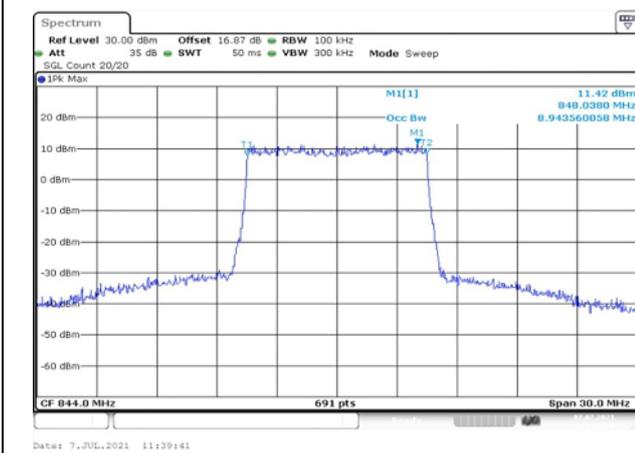


Fig.35

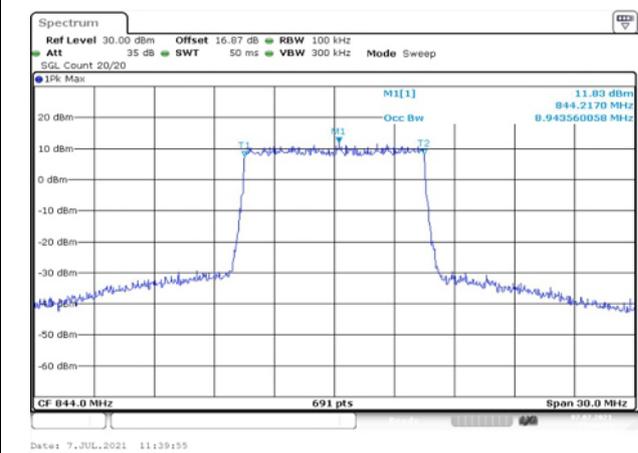


Fig.36

3 Emission Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
5	824.7	20407	1.4	6	0	1.240	Fig.1	1.252	Fig.2	1.246	Fig.3
	836.5	20525		6	0	1.234	Fig.4	1.258	Fig.5	1.258	Fig.6
	848.3	20643		6	0	1.258	Fig.7	1.234	Fig.8	1.234	Fig.9
	825.5	20415	3	15	0	2.852	Fig.10	2.865	Fig.11	2.852	Fig.12
	836.5	20525		15	0	2.865	Fig.13	2.878	Fig.14	2.852	Fig.15
	847.5	20635		15	0	2.852	Fig.16	2.852	Fig.17	2.852	Fig.18
	826.5	20425	5	25	0	4.776	Fig.19	4.776	Fig.20	4.841	Fig.21
	836.5	20525		25	0	4.841	Fig.22	4.776	Fig.23	4.819	Fig.24
	846.5	20625		25	0	4.819	Fig.25	4.819	Fig.26	4.841	Fig.27
	829	20450	10	50	0	9.551	Fig.28	9.508	Fig.29	9.465	Fig.30
	836.5	20525		50	0	9.551	Fig.31	9.508	Fig.32	9.465	Fig.33
	844	20600		50	0	9.551	Fig.34	9.508	Fig.35	9.508	Fig.36

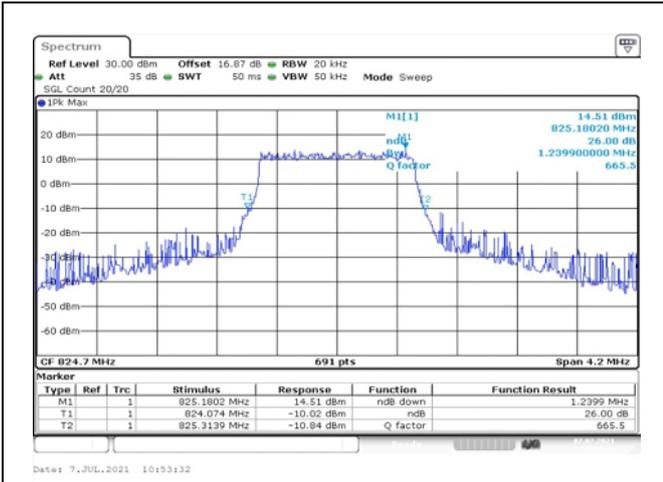


Fig.1

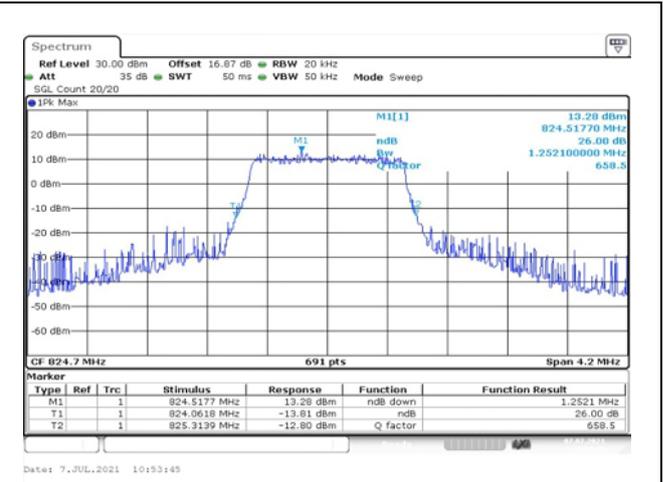


Fig.2

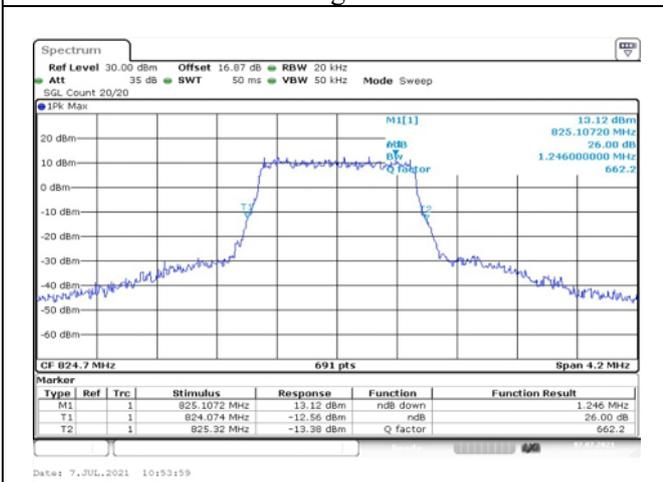


Fig.3

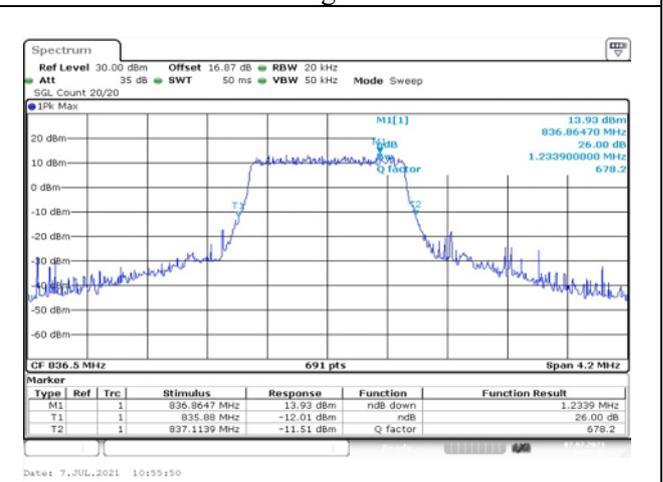


Fig.4

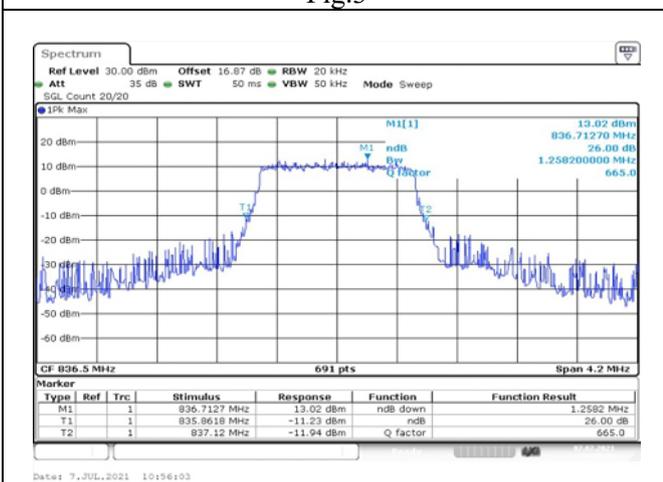


Fig.5

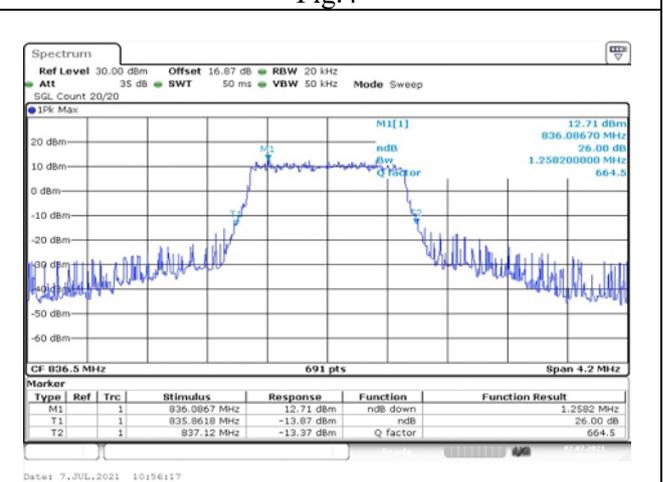


Fig.6

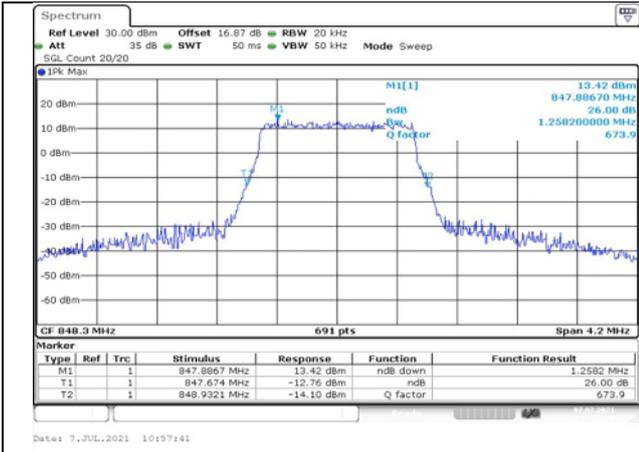


Fig.7

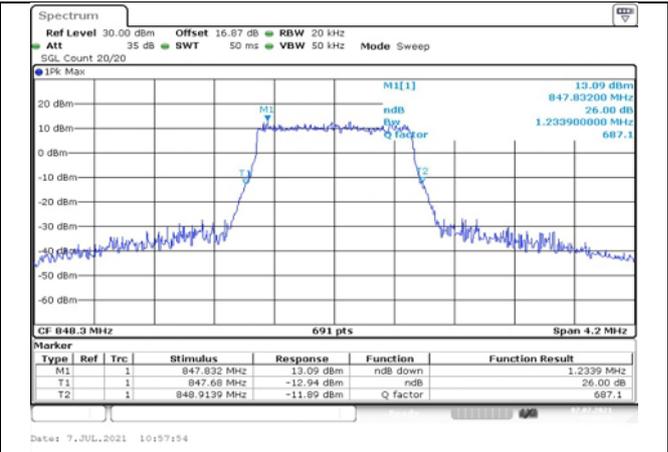


Fig.8

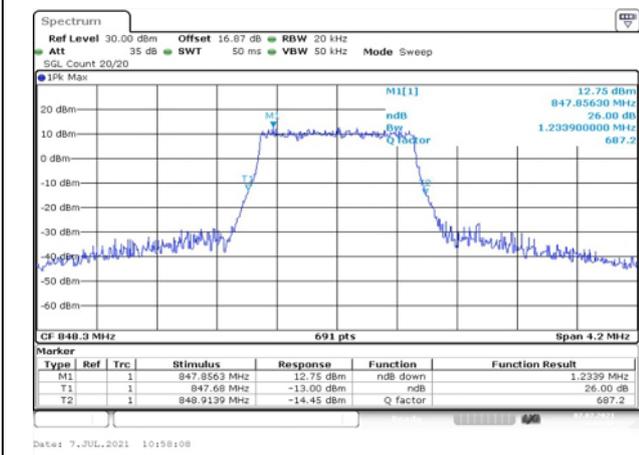


Fig.9

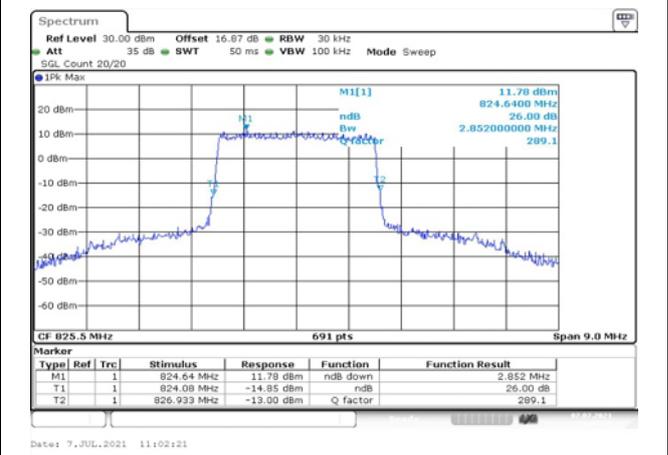


Fig.10

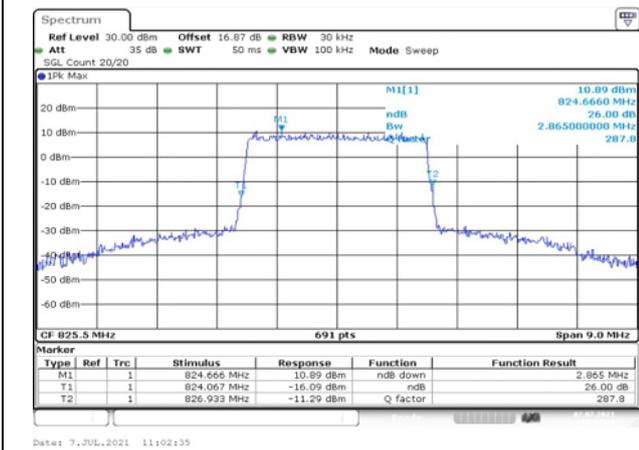


Fig.11

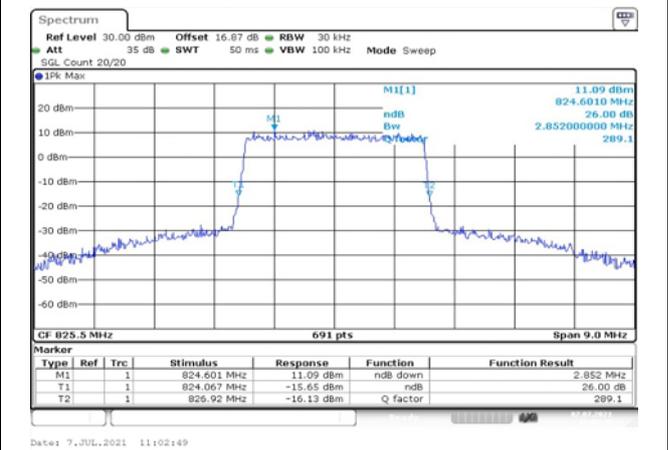


Fig.12

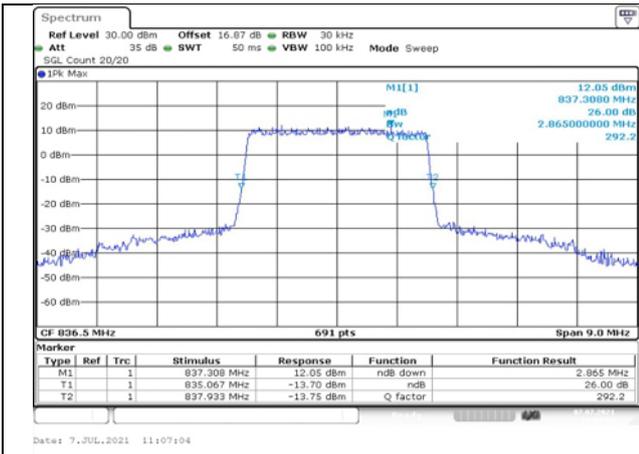


Fig.13

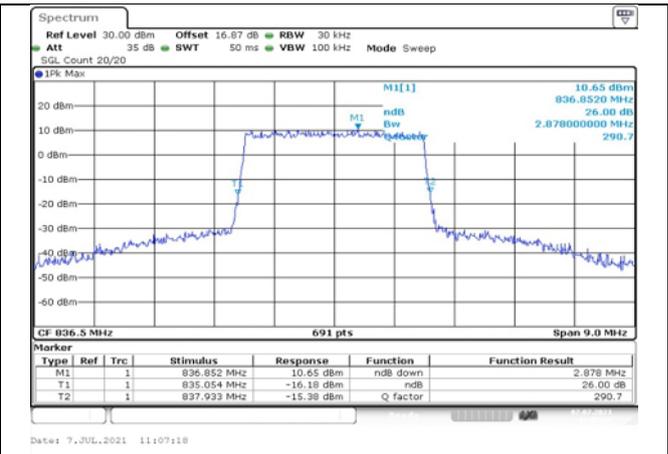


Fig.14



Fig.15

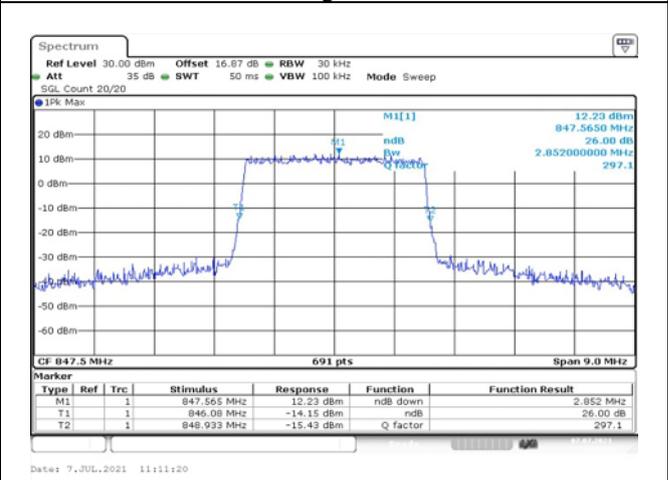


Fig.16

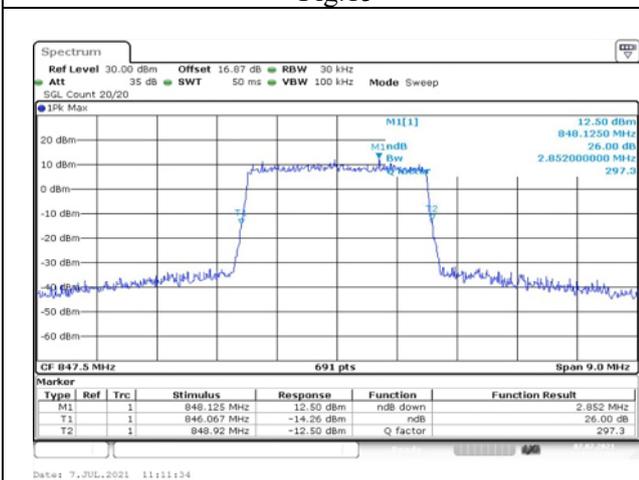


Fig.17

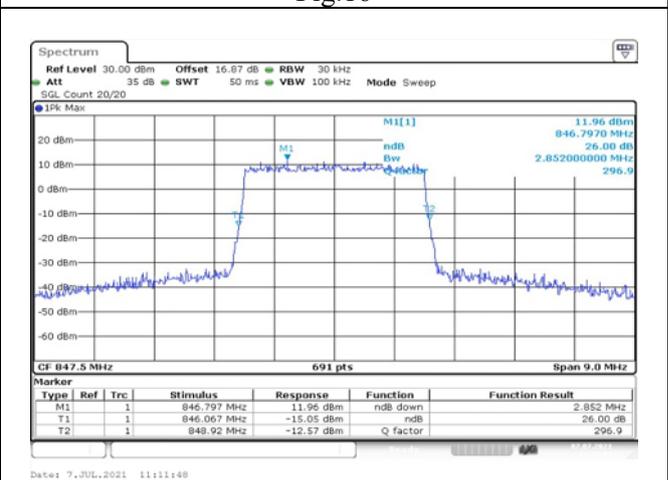


Fig.18

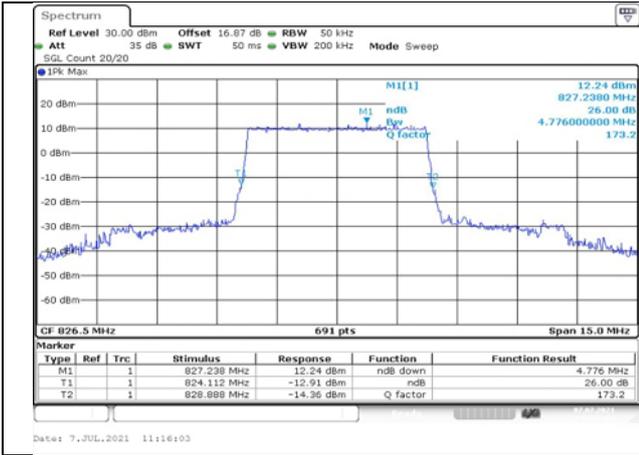


Fig.19

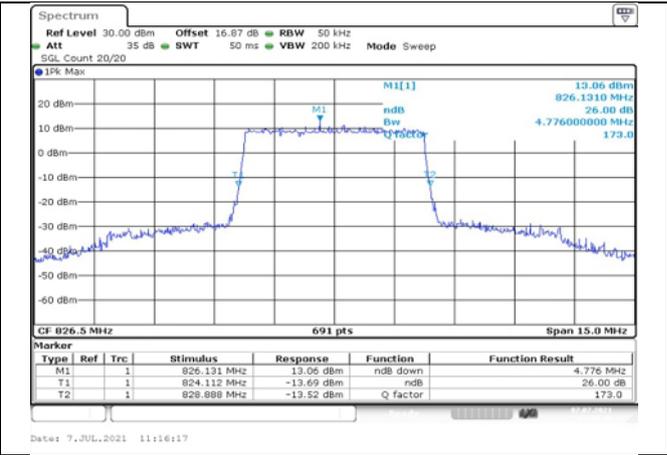


Fig.20



Fig.21

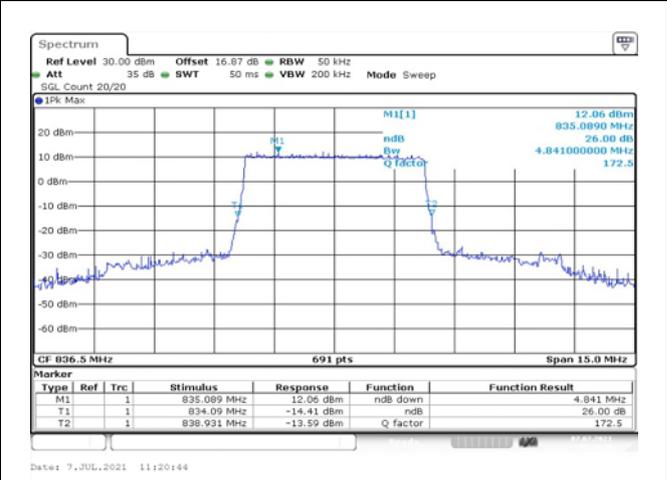


Fig.22

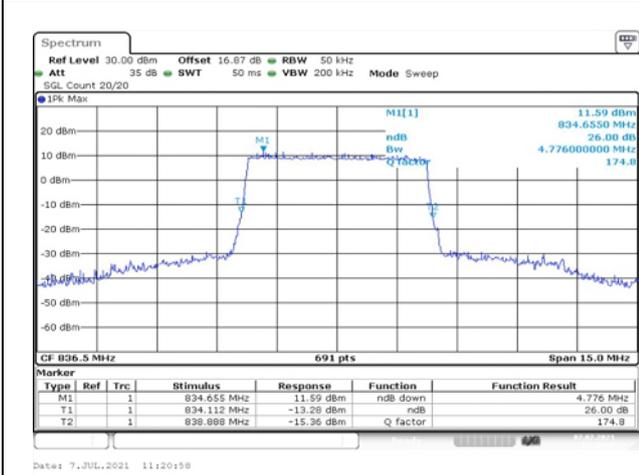


Fig.23

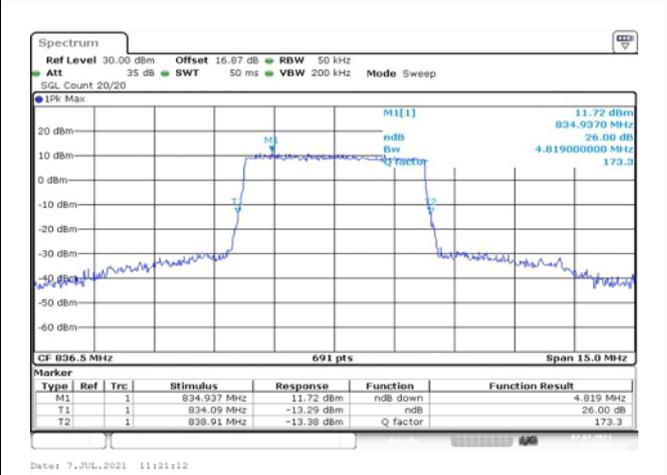


Fig.24

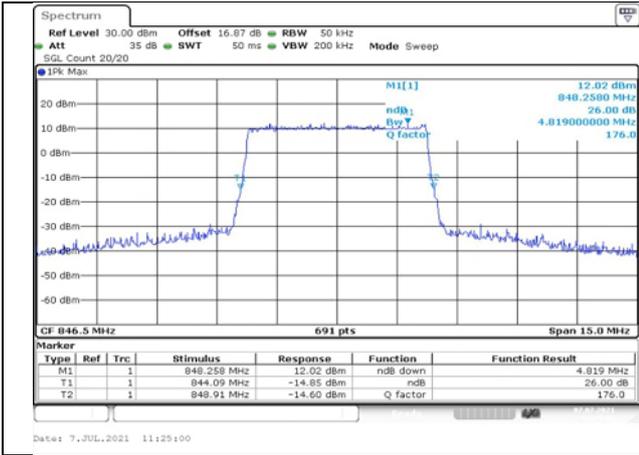


Fig.25

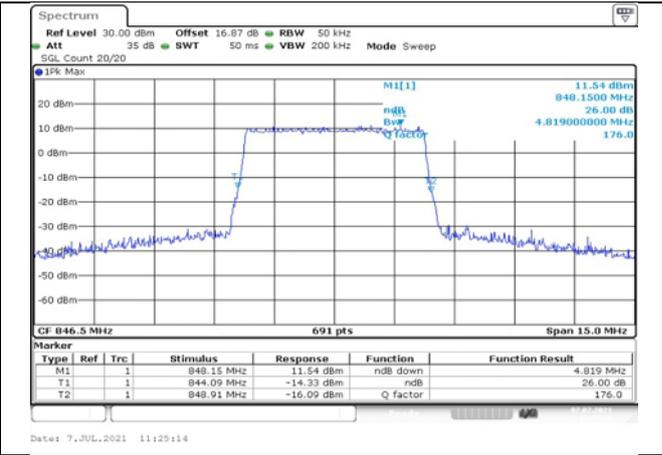


Fig.26

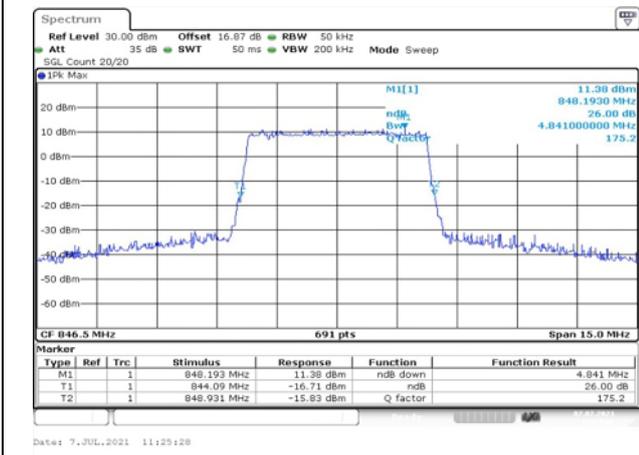


Fig.27

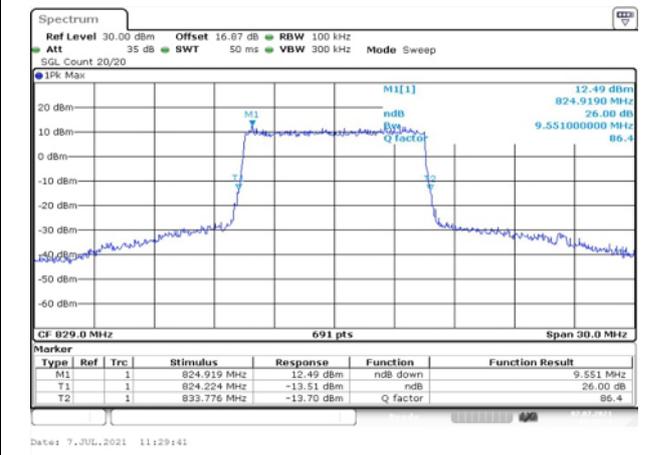


Fig.28

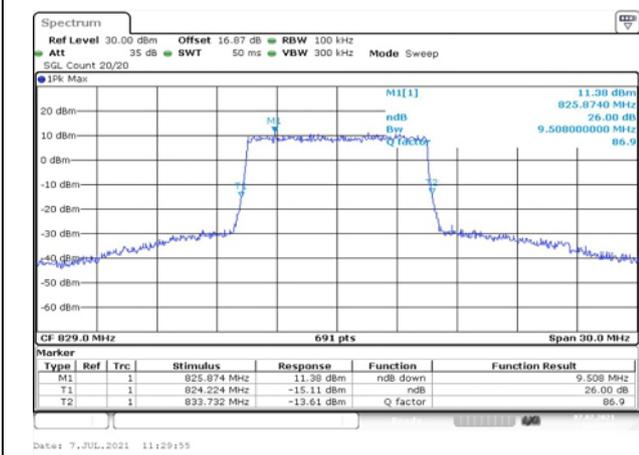


Fig.29

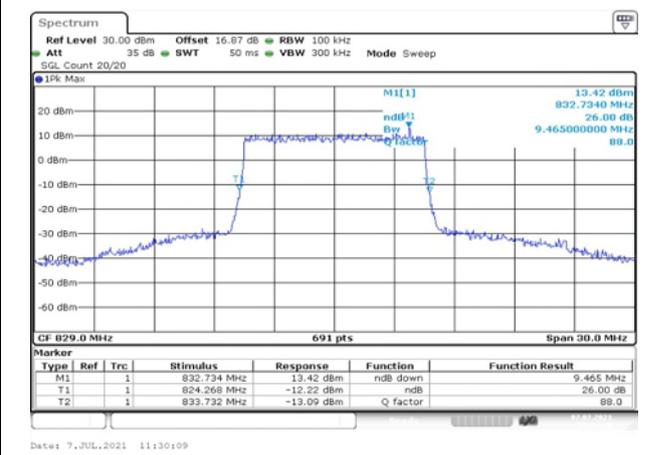


Fig.30

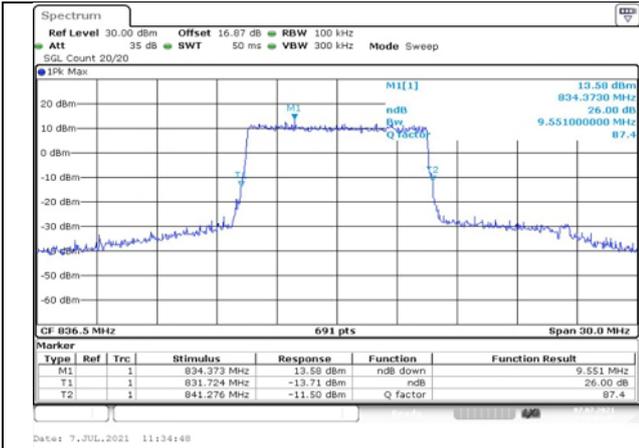


Fig.31

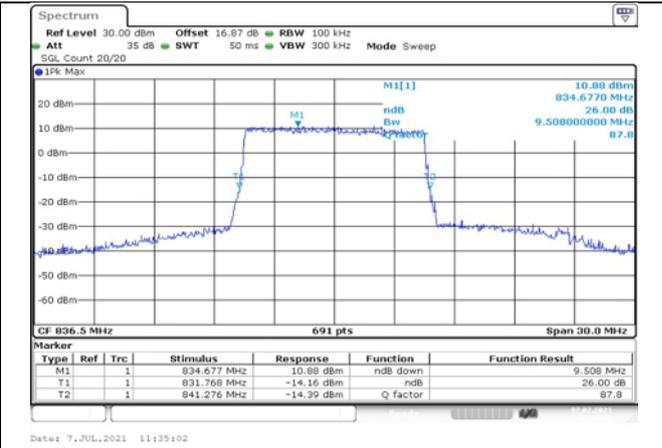


Fig.32

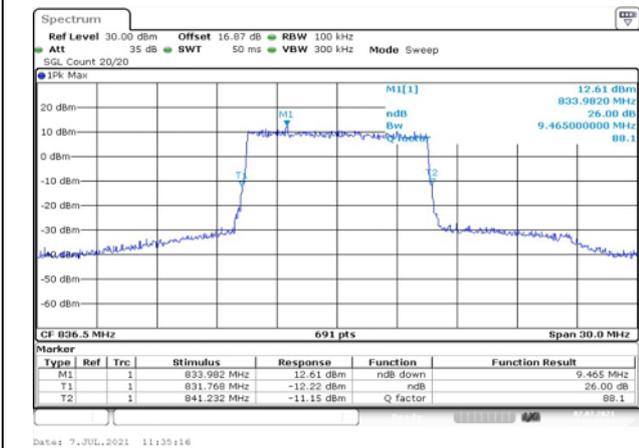


Fig.33

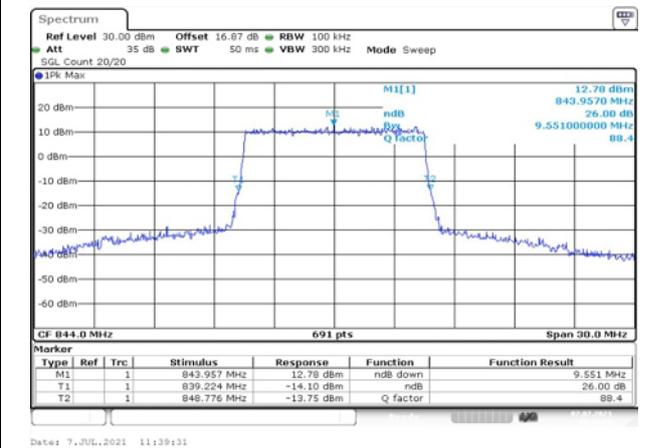


Fig.34

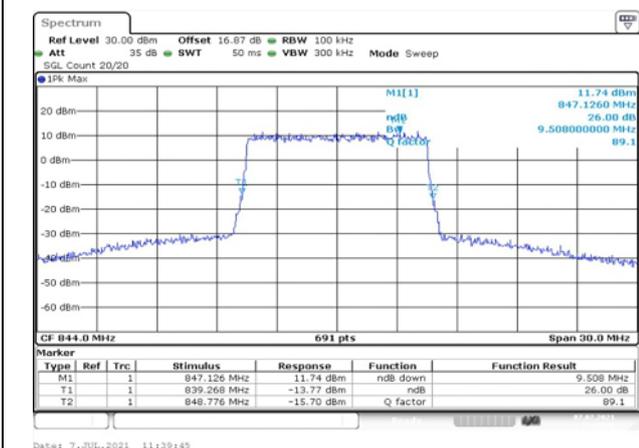


Fig.35

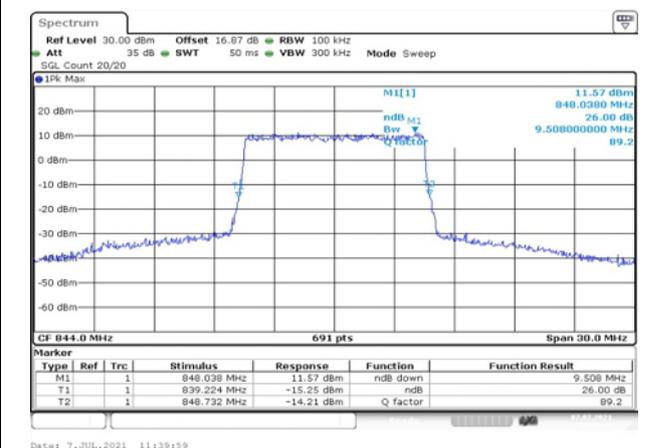


Fig.36

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

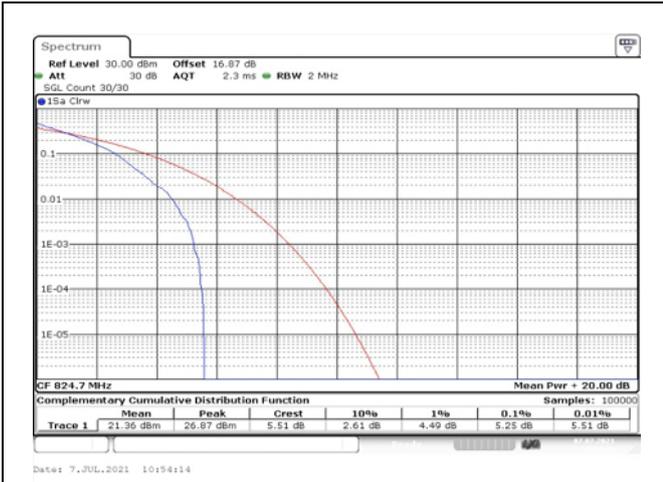


Fig.1

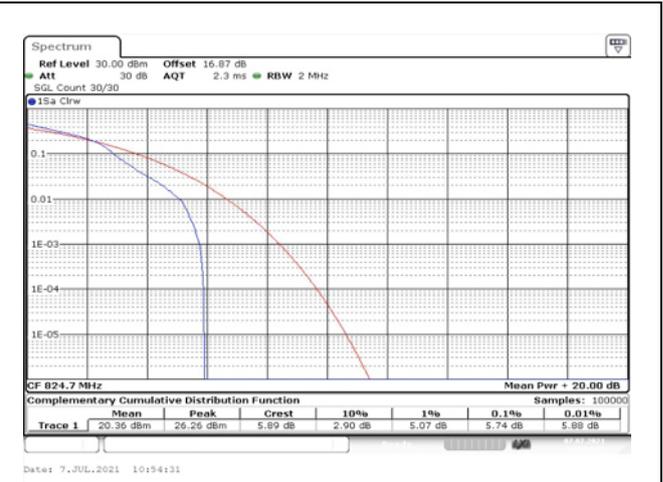


Fig.2

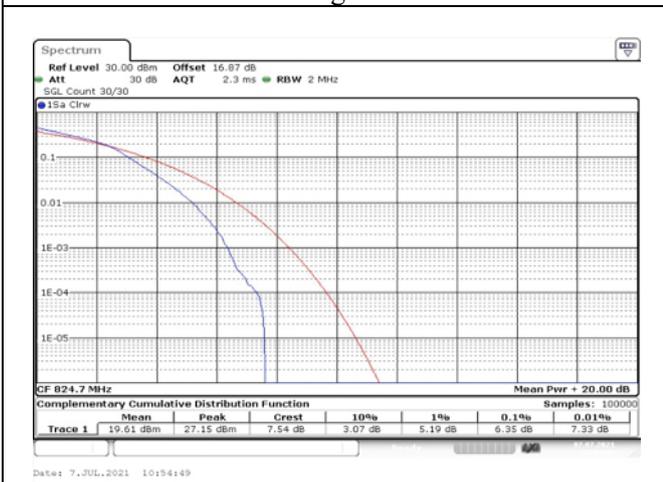


Fig.3

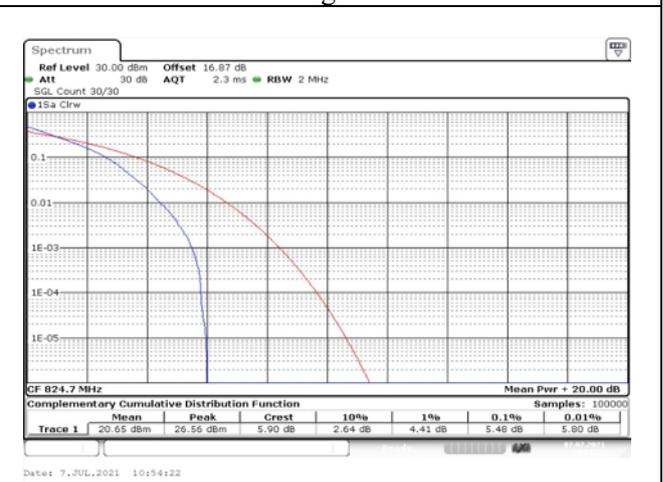


Fig.4

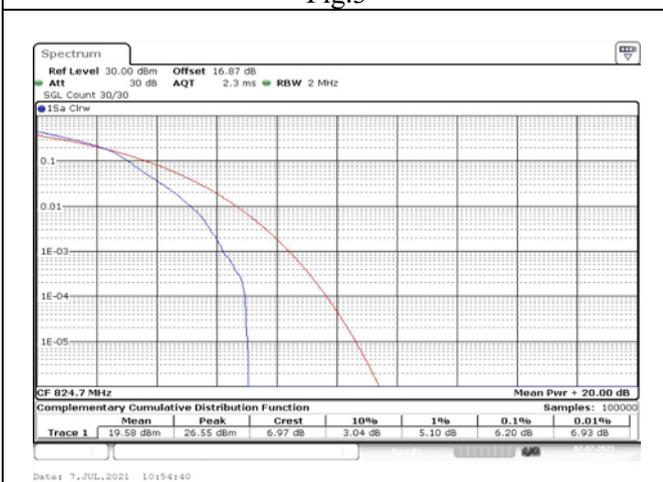


Fig.5

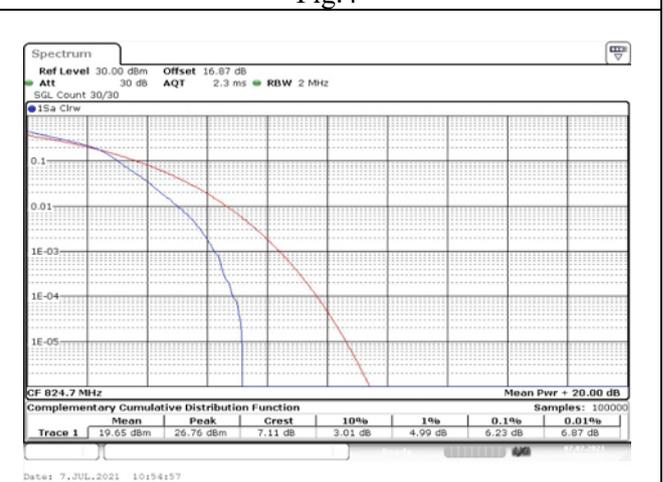


Fig.6