

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 5

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	23.3
				1	3	23.4
				1	5	23.4
				3	0	23.5
				3	1	23.5
				3	3	23.4
	836.5	20525		6	0	22.3
				1	0	23.3
				1	3	23.5
				1	5	23.5
				3	0	23.5
				3	1	23.5
	848.3	20643		3	3	23.5
				6	0	22.5
				1	0	23.6
				1	3	23.8
				1	5	23.7
				3	0	23.5
16QAM	824.7	20407	3	1	23.7	
			3	3	23.6	
			6	0	22.6	
			1	0	22.6	
			1	3	22.7	
			1	5	22.7	
	836.5	20525	3	0	22.3	
			3	1	22.3	
			3	3	22.5	
			6	0	21.6	
			1	0	23.1	
			1	3	23.2	
	848.3	20643	1	5	23.2	
			3	0	22.3	
			3	1	22.3	
			3	3	22.5	
			6	0	21.7	
			1	0	22.4	
			1	3	22.5	
			1	5	22.6	
			3	0	22.3	
			3	1	22.3	
			3	3	22.3	
			6	0	21.7	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	824.7	20407	1.4	1	0	21.7
				1	3	21.6
				1	5	21.7
				3	0	21.6
				3	1	21.6
				3	3	21.6
	836.5	20525		6	0	21.6
				1	0	21.7
				1	3	21.7
				1	5	21.7
				3	0	21.7
				3	1	21.7
	848.3	20643		3	3	21.7
				6	0	21.5
				1	0	21.8
				1	3	21.7
				1	5	21.7
				3	0	21.7
			3	1	21.9	
			3	3	21.9	
			6	0	21.8	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.2
				1	8	23.2
				1	14	23.2
				8	0	22.4
				8	4	22.4
				8	7	22.4
	836.5	20525		15	0	22.4
				1	0	23.4
				1	8	23.4
				1	14	23.5
				8	0	22.3
				8	4	22.5
	847.5	20635		8	7	22.5
				15	0	22.4
				1	0	23.6
1			8	23.8		
1			14	23.7		
8			0	22.6		
16QAM	825.5	20415	8	4	22.7	
			8	7	22.7	
			15	0	22.6	
			1	0	22.7	
			1	8	22.6	
			1	14	22.6	
	836.5	20525	8	0	21.7	
			8	4	21.7	
			8	7	21.7	
			15	0	21.5	
			1	0	22.6	
			1	8	22.6	
	847.5	20635	1	14	22.6	
			8	0	21.5	
			8	4	21.4	
8			7	21.6		
15			0	21.5		
1			0	22.2		
			1	8	22.2	
			1	14	22.3	
			8	0	21.7	
			8	4	21.8	
			8	7	21.8	
			15	0	21.6	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	825.5	20415	3	1	0	21.5
				1	8	21.5
				1	14	21.5
				8	0	21.5
				8	4	21.5
				8	7	21.5
	836.5	20525		15	0	21.5
				1	0	21.5
				1	8	21.5
				1	14	21.5
				8	0	21.5
				8	4	21.5
	847.5	20635		8	7	21.5
				15	0	21.5
				1	0	21.6
				1	8	21.6
				1	14	21.6
				8	0	21.6
			8	4	21.6	
			8	7	21.6	
			15	0	21.6	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.4
				1	12	23.3
				1	24	23.3
				12	0	22.4
				12	7	22.3
				12	13	22.3
	836.5	20525		25	0	22.3
				1	0	23.4
				1	12	23.5
				1	24	23.5
				12	0	22.4
				12	7	22.4
	846.5	20625		12	13	22.4
				25	0	22.4
				1	0	23.3
1			12	23.4		
1			24	23.4		
12			0	22.6		
16QAM	826.5	20425	12	7	22.6	
			12	13	22.6	
			25	0	22.6	
			1	0	21.6	
			1	12	21.5	
			1	24	21.5	
	836.5	20525	12	0	21.4	
			12	7	21.3	
			12	13	21.3	
			25	0	21.4	
			1	0	22.4	
			1	12	22.5	
	846.5	20625	1	24	22.5	
			12	0	21.4	
			12	7	21.5	
12			13	21.5		
25			0	21.5		
1			0	22.2		
			1	12	22.3	
			1	24	22.3	
			12	0	21.5	
			12	7	21.4	
			12	13	21.4	
			25	0	21.5	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	826.5	20425	5	1	0	21.4
				1	12	21.4
				1	24	21.4
				12	0	21.4
				12	7	21.4
				12	13	21.4
	836.5	20525		25	0	21.4
				1	0	21.5
				1	12	21.5
				1	24	21.4
				12	0	21.4
				12	7	21.4
	846.5	20625		12	13	21.4
				25	0	21.4
				1	0	21.7
				1	12	21.7
				1	24	21.7
				12	0	21.7
			12	7	21.7	
			12	13	21.7	
			25	0	21.5	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	23.2
				1	25	23.2
				1	49	23.2
				25	0	22.3
				25	12	22.3
				25	25	22.3
	836.5	20525		50	0	22.2
				1	0	23.4
				1	25	23.6
				1	49	23.6
				25	0	22.5
				25	12	22.4
	844	20600		25	25	22.5
				50	0	22.4
				1	0	23.6
1			25	23.6		
1			49	23.6		
25			0	22.5		
16QAM	829	20450	25	12	22.6	
			25	25	22.6	
			50	0	22.6	
			1	0	22.7	
			1	25	22.7	
			1	49	22.7	
	836.5	20525	25	0	21.3	
			25	12	21.4	
			25	25	21.3	
			50	0	21.2	
			1	0	22.5	
			1	25	22.6	
	844	20600	1	49	22.6	
			25	0	21.4	
			25	12	21.6	
25			25	21.6		
50			0	21.5		
1			0	22.0		
			1	25	22.2	
			1	49	22.2	
			25	0	21.7	
			25	12	21.8	
			25	25	21.8	
			50	0	21.6	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	829	20450	10	1	0	21.2
				1	25	21.3
				1	49	21.3
				25	0	21.2
				25	12	21.3
				25	25	21.3
	836.5	20525		50	0	21.3
				1	0	21.5
				1	25	21.5
				1	49	21.5
				25	0	21.5
				25	12	21.5
	844	20600		25	25	21.5
				50	0	21.5
				1	0	21.6
				1	25	21.6
				1	49	21.6
				25	0	21.6
			25	12	21.6	
			25	25	21.6	
			50	0	21.6	

Occupied Bandwidth
Test result

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	1.088	Fig.2	1.094	Fig.3
	836.5	20525		6	0	1.094	Fig.4	1.082	Fig.5	1.088	Fig.6
	848.3	20643		6	0	1.094	Fig.7	1.100	Fig.8	1.088	Fig.9
	825.5	20415	3	15	0	2.735	Fig.10	2.748	Fig.11	2.748	Fig.12
	836.5	20525		15	0	2.735	Fig.13	2.735	Fig.14	2.748	Fig.15
	847.5	20635		15	0	2.748	Fig.16	2.722	Fig.17	2.735	Fig.18
	826.5	20425	5	25	0	4.515	Fig.19	4.493	Fig.20	4.493	Fig.21
	836.5	20525		25	0	4.493	Fig.22	4.493	Fig.23	4.537	Fig.24
	846.5	20625		25	0	4.493	Fig.25	4.493	Fig.26	4.493	Fig.27
	829	20450	10	50	0	9.074	Fig.28	9.074	Fig.29	9.074	Fig.30
	836.5	20525		50	0	9.030	Fig.31	9.030	Fig.32	9.030	Fig.33
	844	20600		50	0	9.030	Fig.34	9.030	Fig.35	9.074	Fig.36

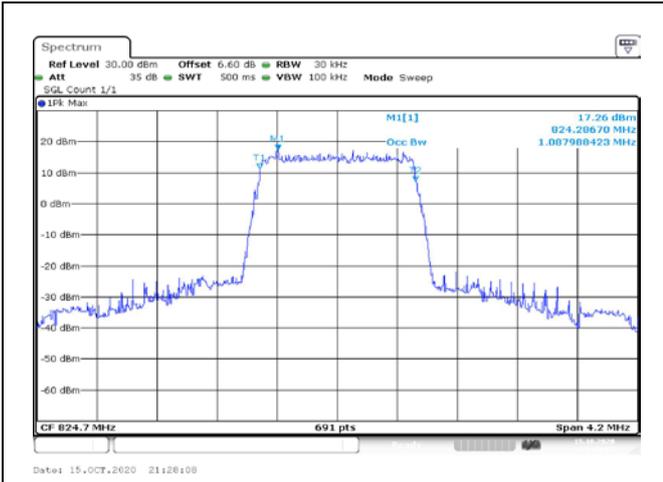


Fig.1

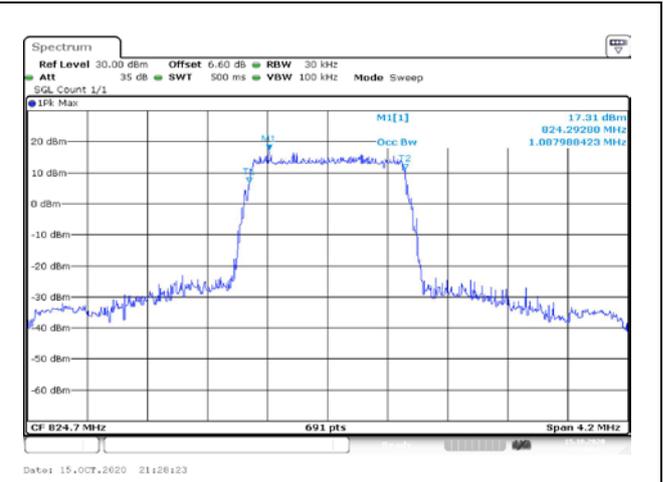


Fig.2

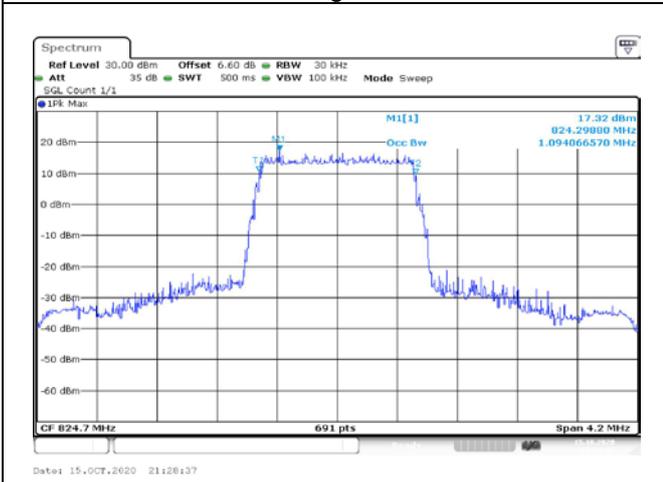


Fig.3

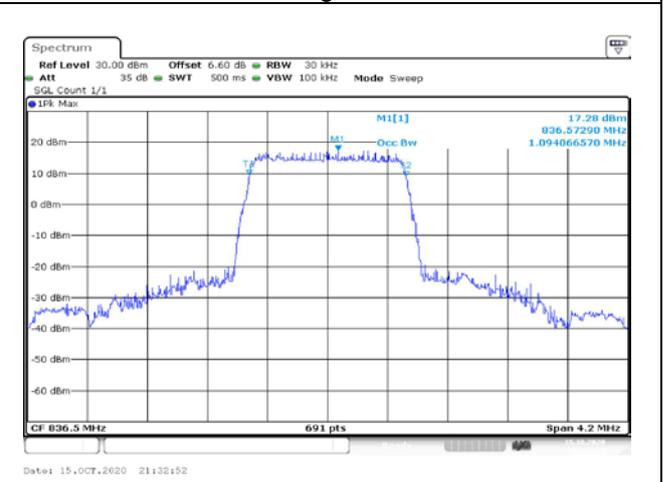


Fig.4

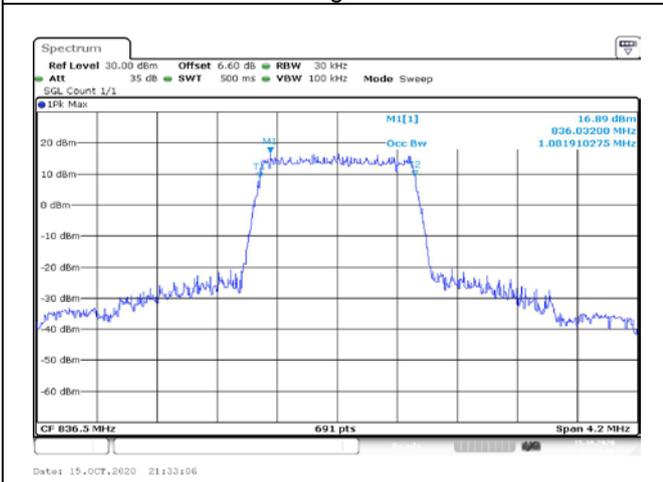


Fig.5

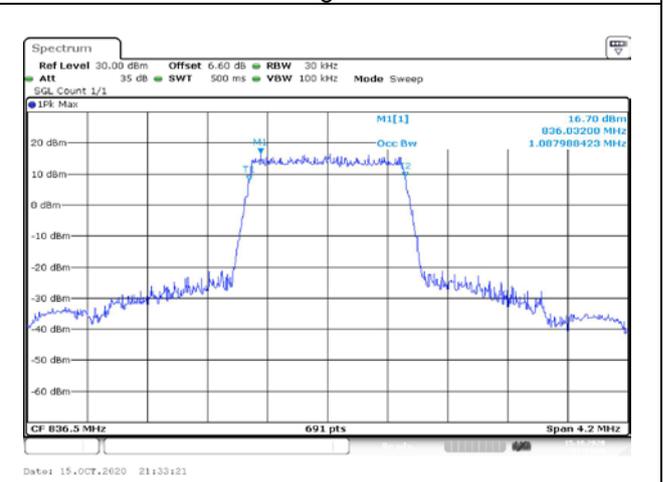


Fig.6

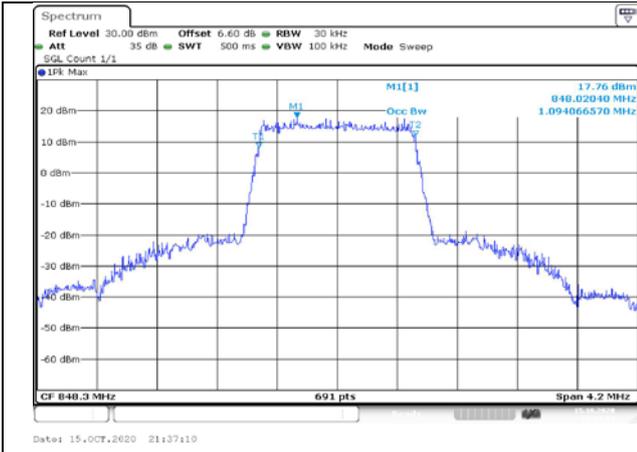


Fig.7

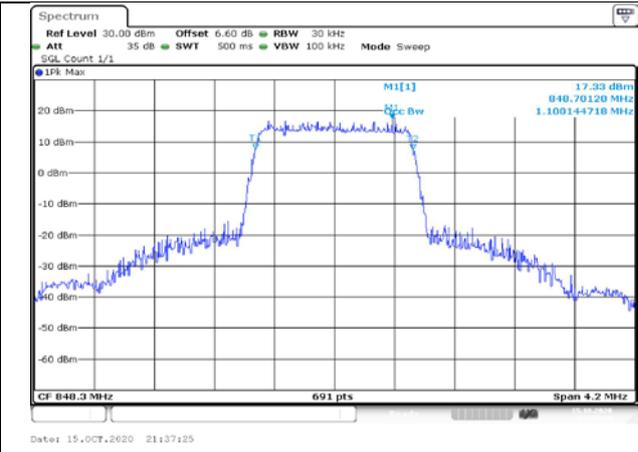


Fig.8

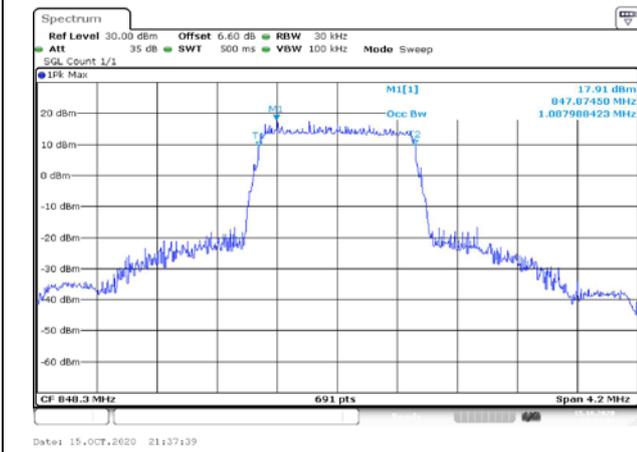


Fig.9

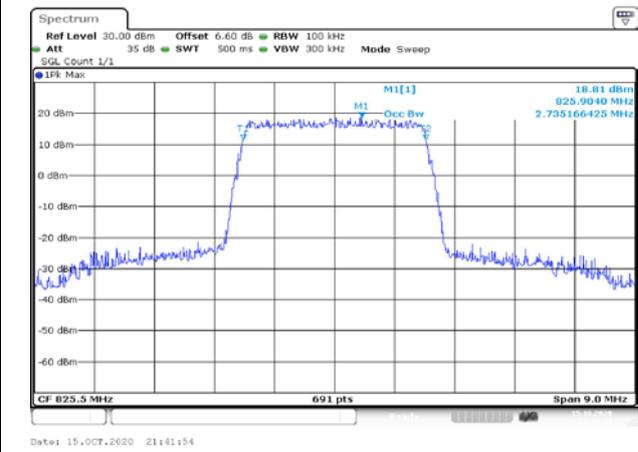


Fig.10

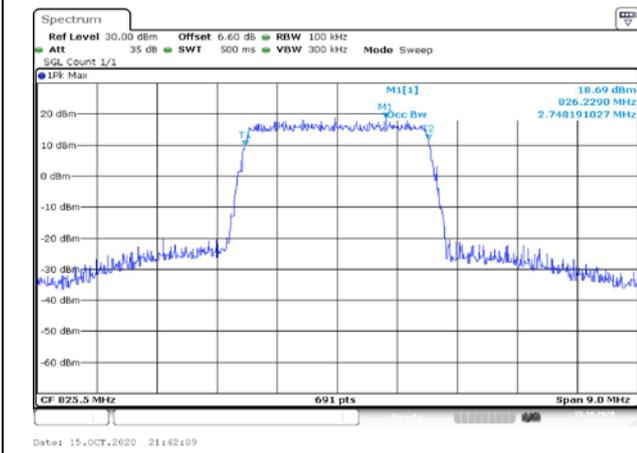


Fig.11

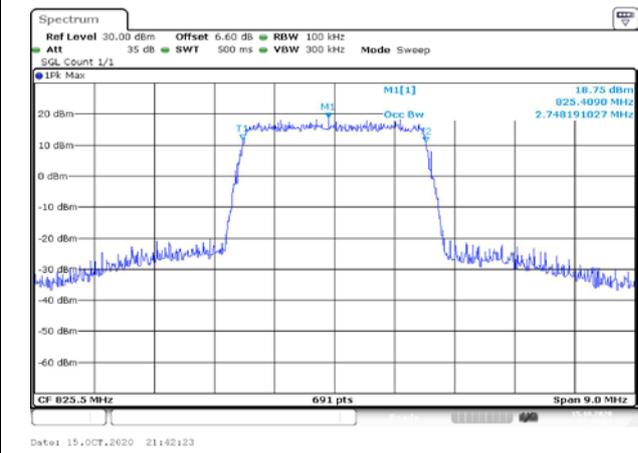
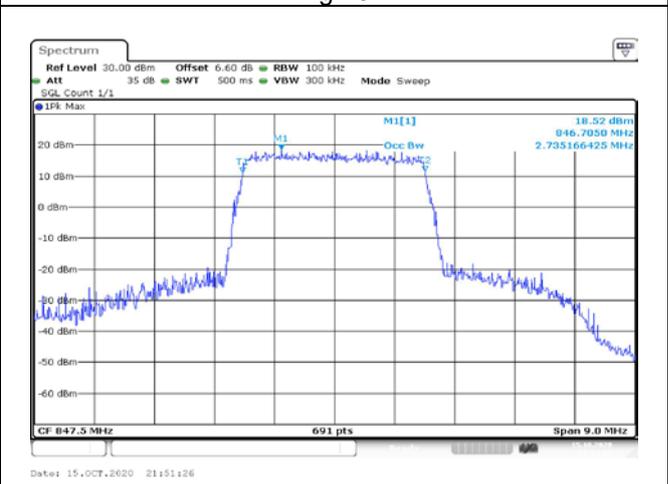
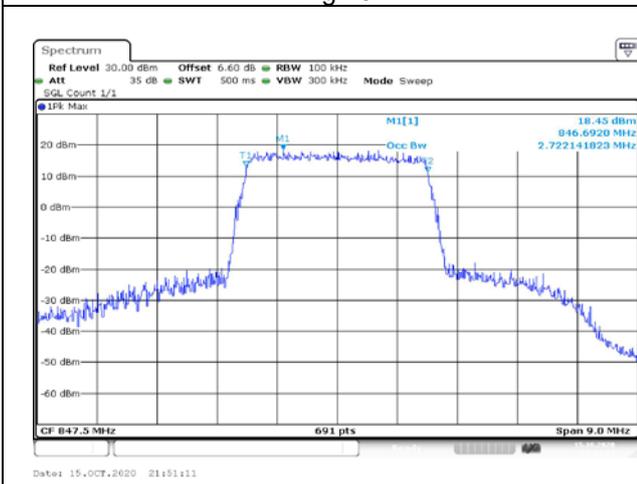
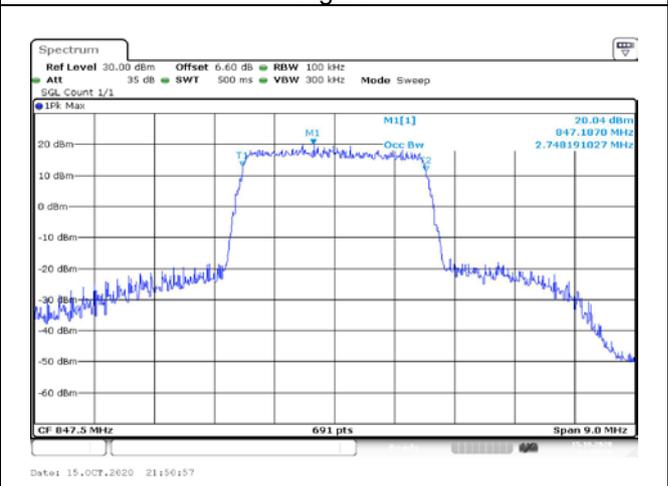
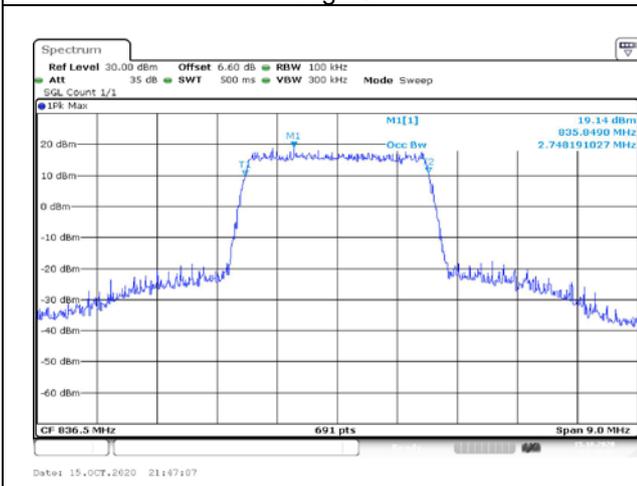
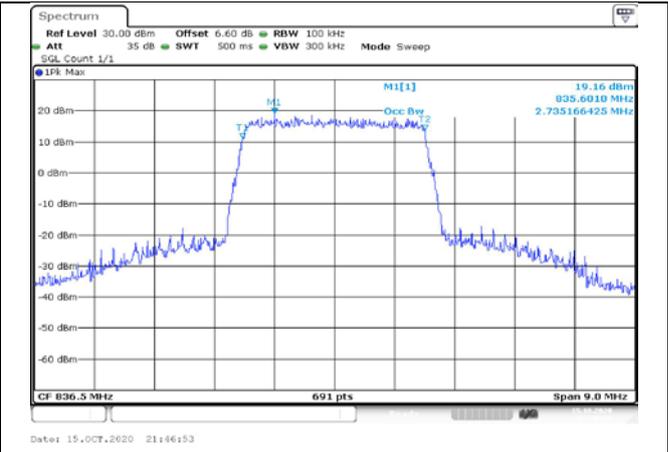
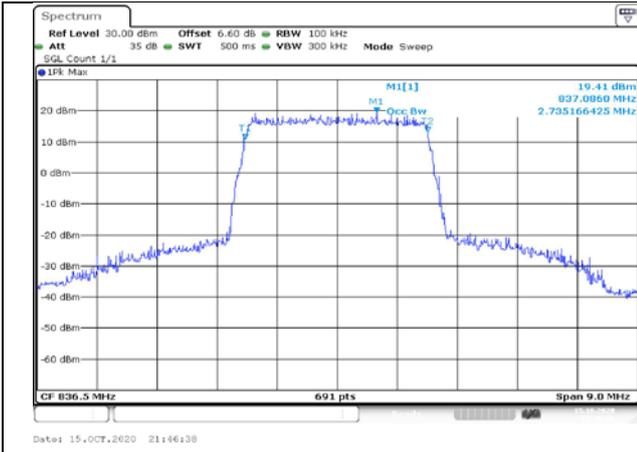
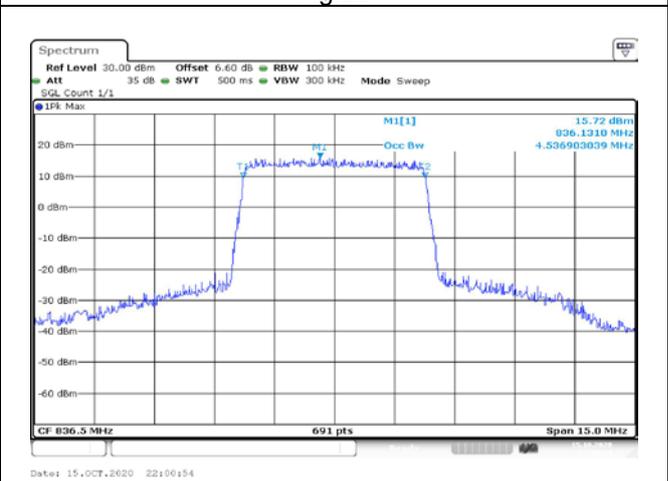
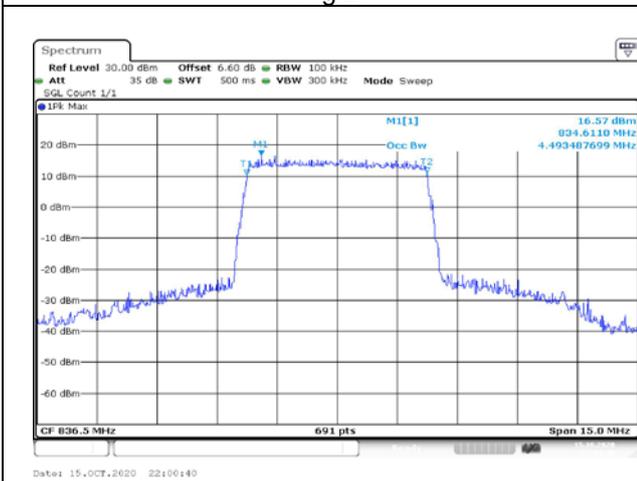
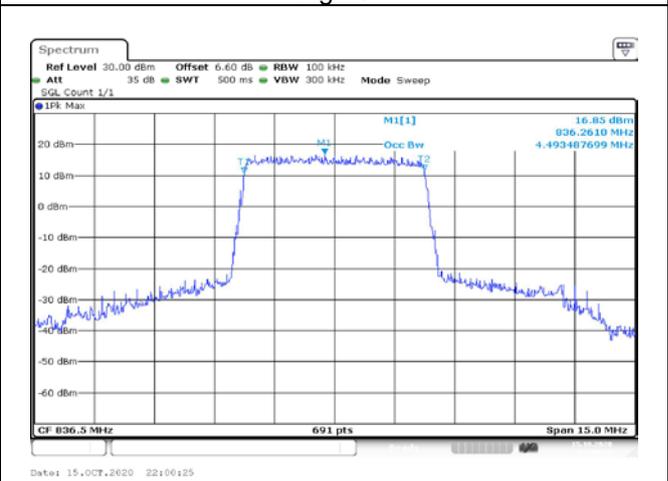
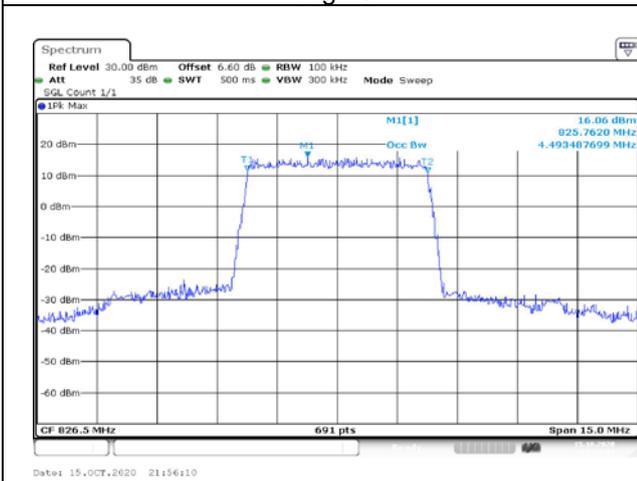
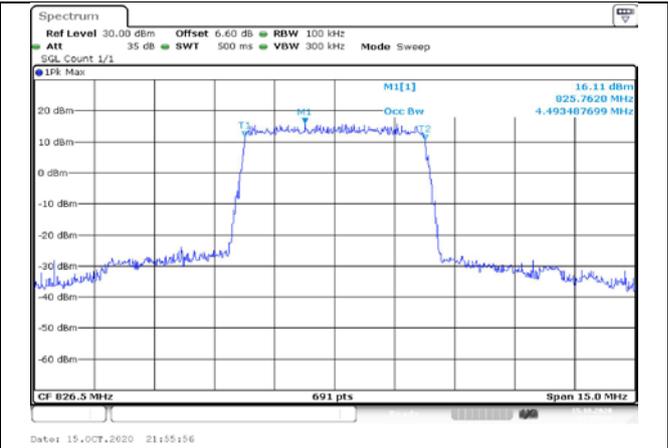
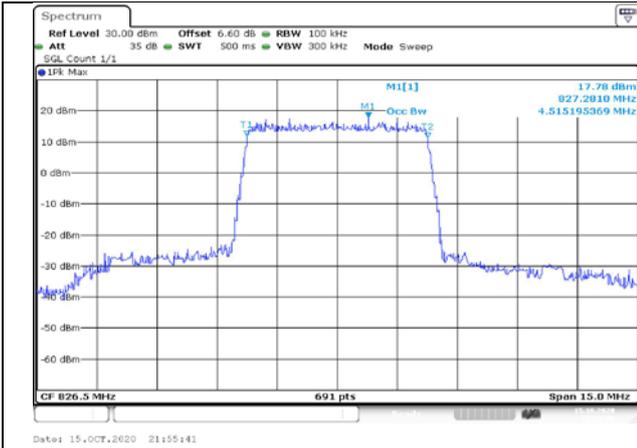


Fig.12





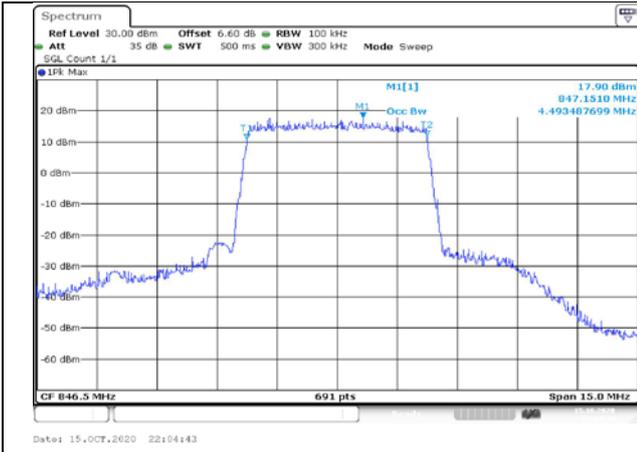


Fig.25

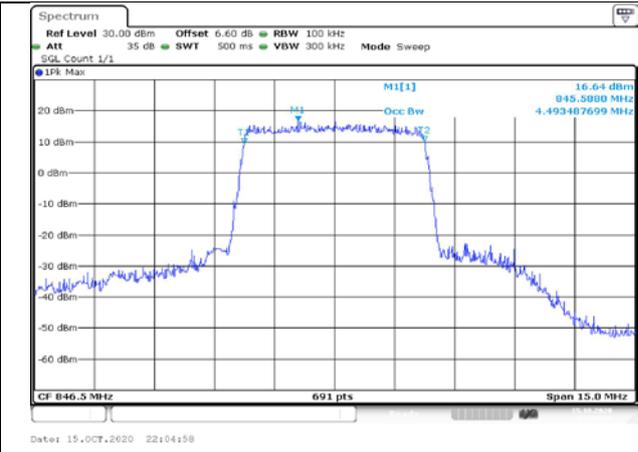


Fig.26

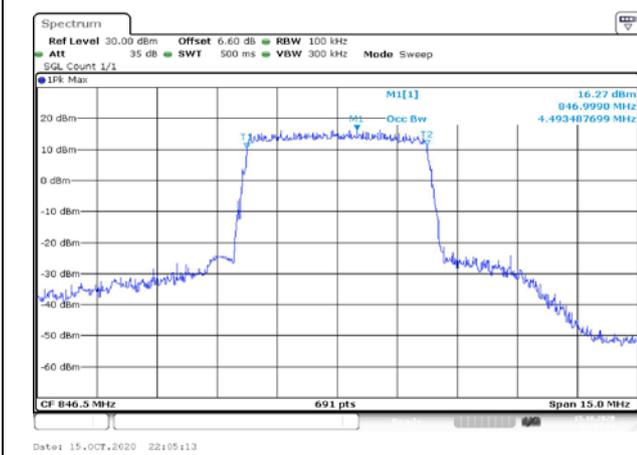


Fig.27

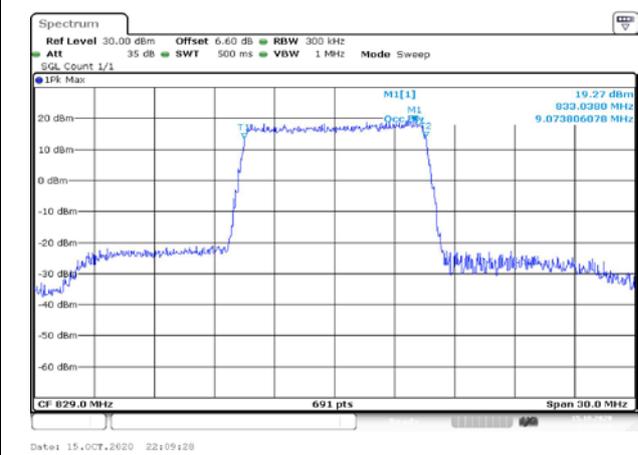


Fig.28

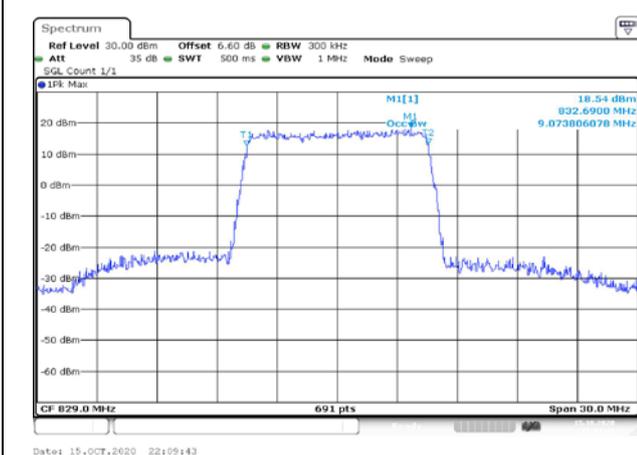


Fig.29

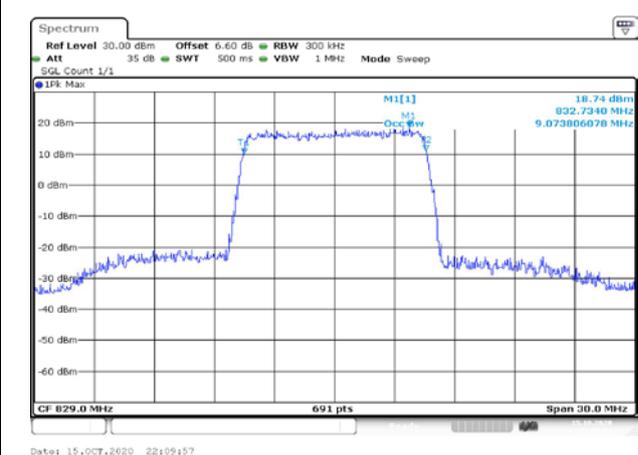


Fig.30

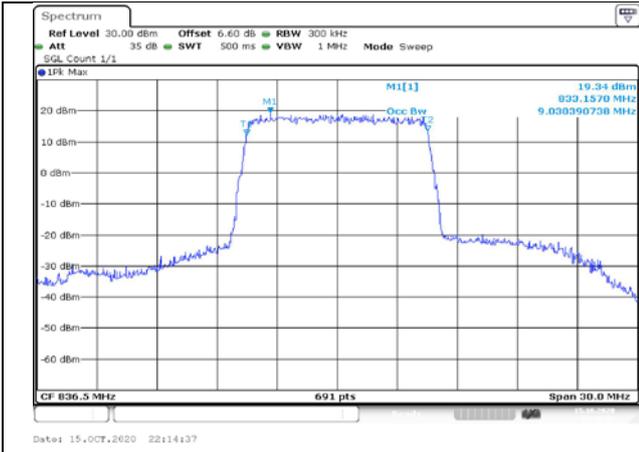


Fig.31

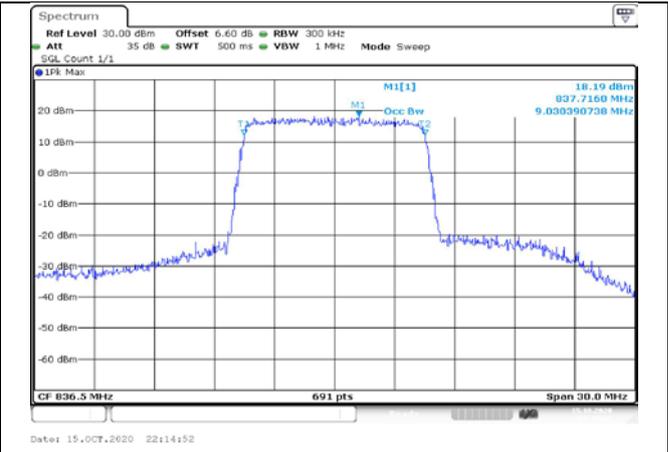


Fig.32

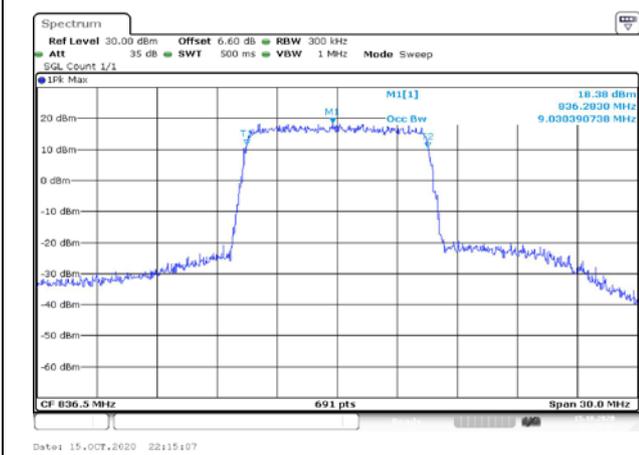


Fig.33

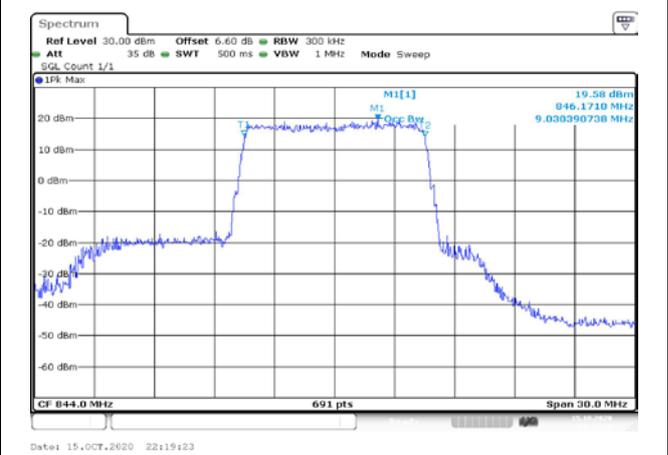


Fig.34

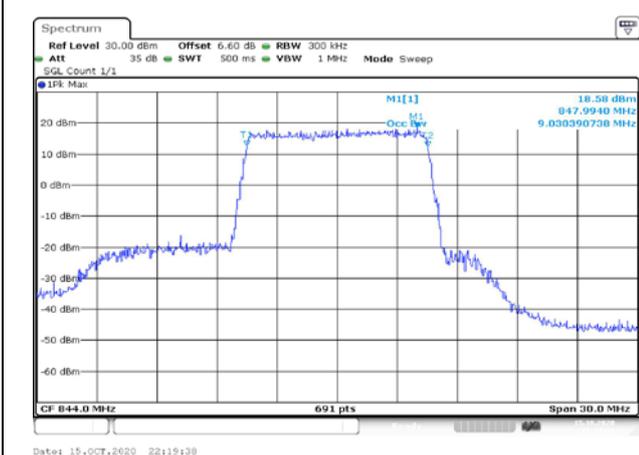


Fig.35

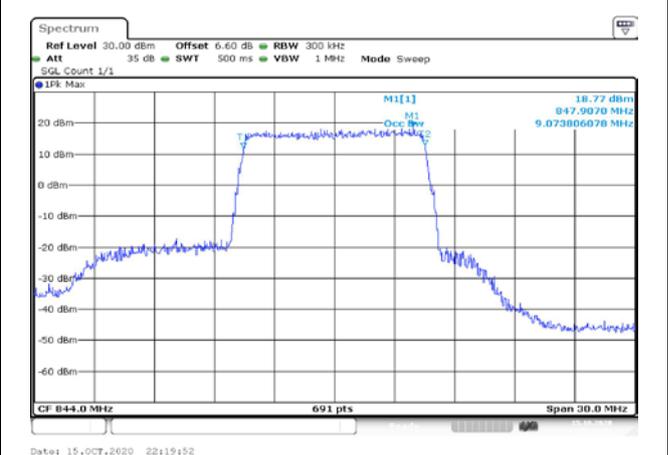


Fig.36

Emission Bandwidth
Test result

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	1.240	Fig.2	1.246	Fig.3
	836.5	20525		6	0	1.240	Fig.4	1.234	Fig.5	1.234	Fig.6
	848.3	20643		6	0	1.240	Fig.7	1.234	Fig.8	1.234	Fig.9
	825.5	20415	3	15	0	3.113	Fig.10	3.061	Fig.11	3.061	Fig.12
	836.5	20525		15	0	3.074	Fig.13	3.061	Fig.14	3.074	Fig.15
	847.5	20635		15	0	3.087	Fig.16	3.087	Fig.17	3.087	Fig.18
	826.5	20425	5	25	0	4.906	Fig.19	4.949	Fig.20	4.949	Fig.21
	836.5	20525		25	0	4.949	Fig.22	4.971	Fig.23	4.928	Fig.24
	846.5	20625		25	0	4.928	Fig.25	4.928	Fig.26	4.971	Fig.27
	829	20450	10	50	0	9.986	Fig.28	10.029	Fig.29	10.029	Fig.30
	836.5	20525		50	0	10.029	Fig.31	9.986	Fig.32	9.986	Fig.33
	844	20600		50	0	9.986	Fig.34	10.029	Fig.35	9.986	Fig.36

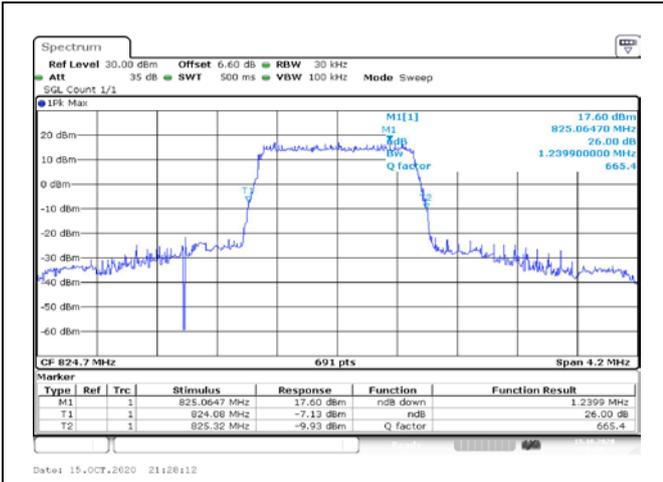


Fig.1

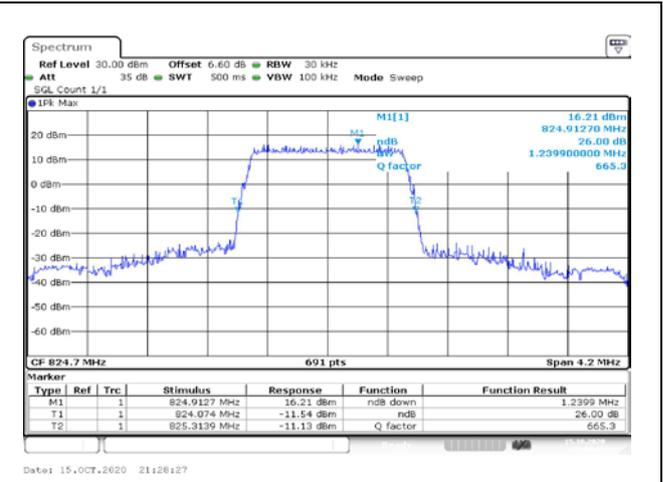


Fig.2

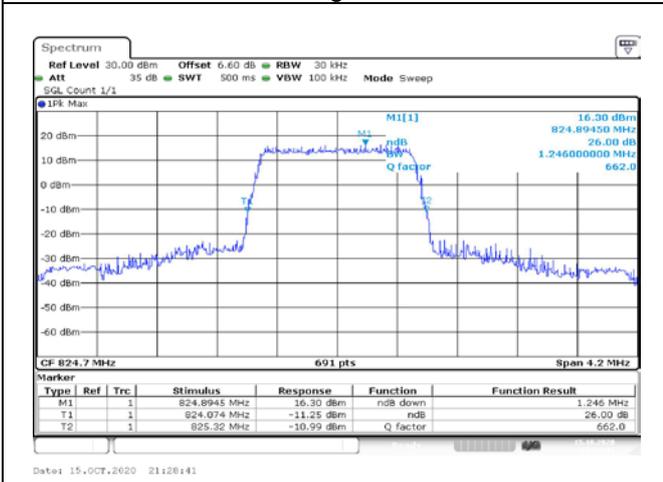


Fig.3

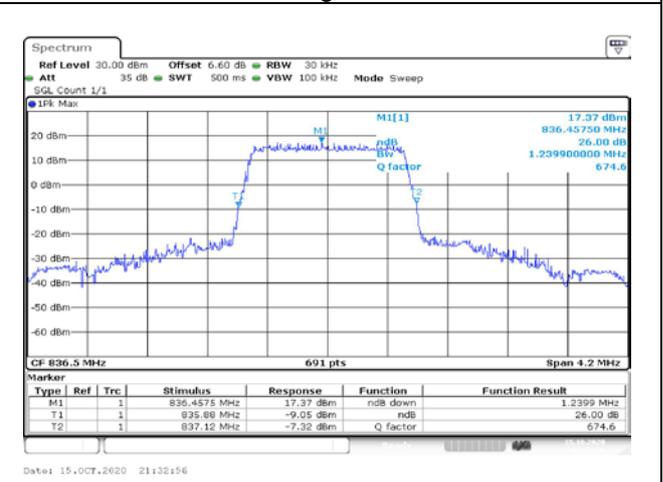


Fig.4

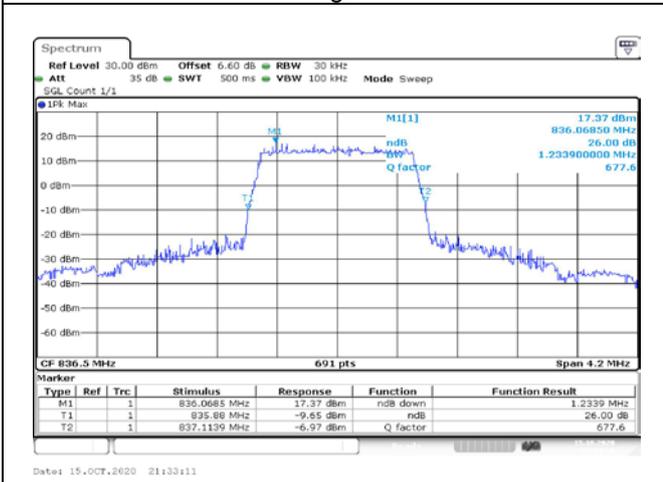


Fig.5

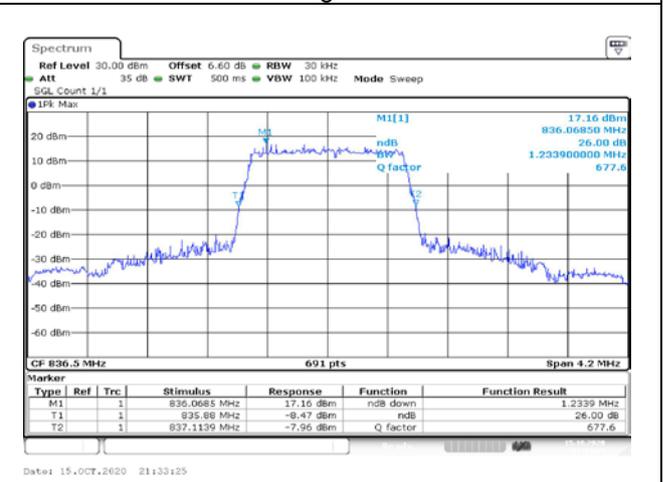


Fig.6

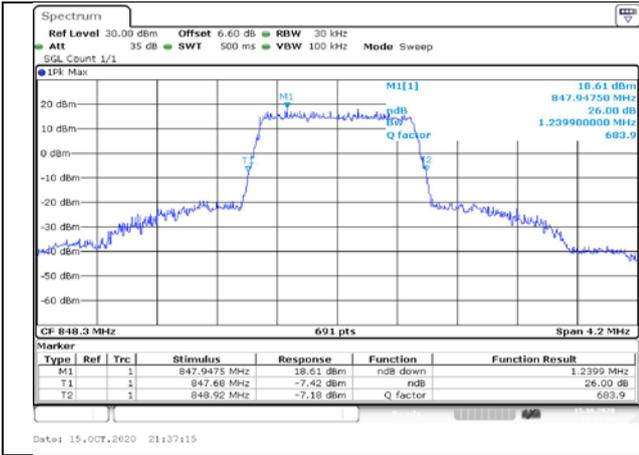


Fig.7

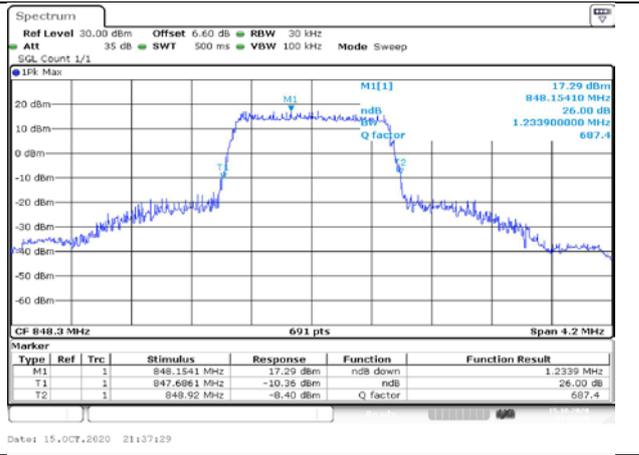


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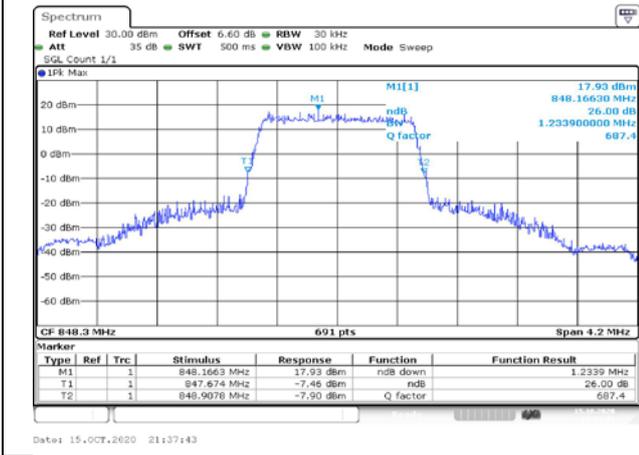


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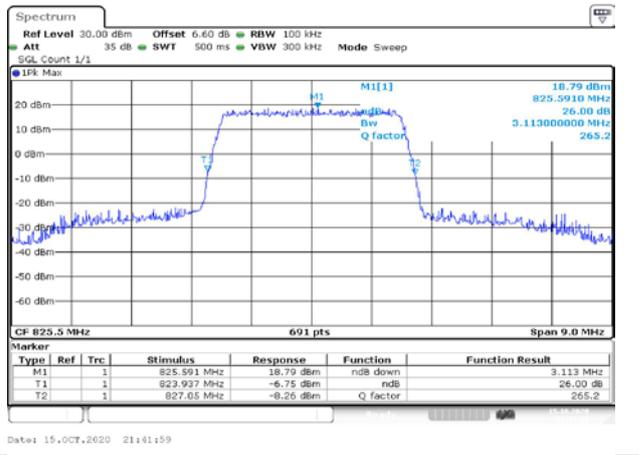


Fig.10

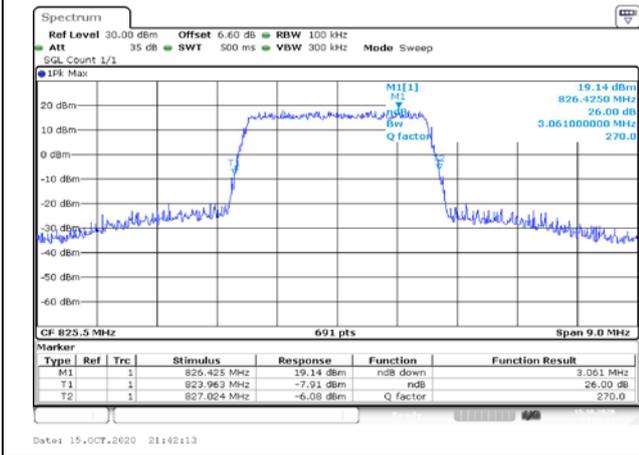


Fig.11

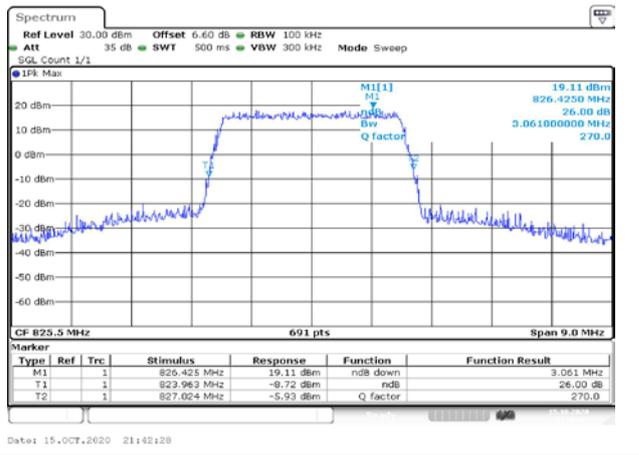


Fig.12



Fig.13

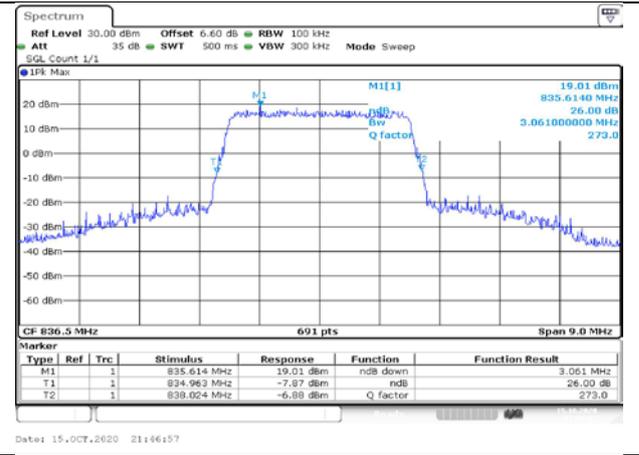


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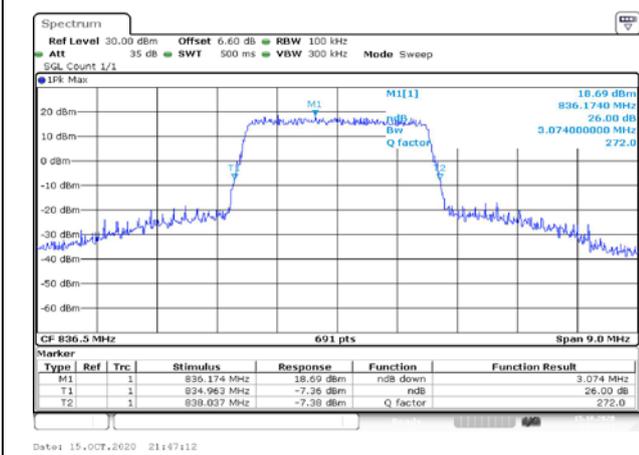


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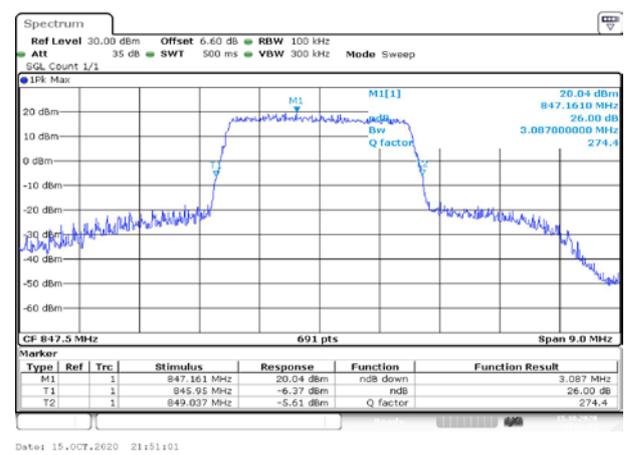


Fig.16

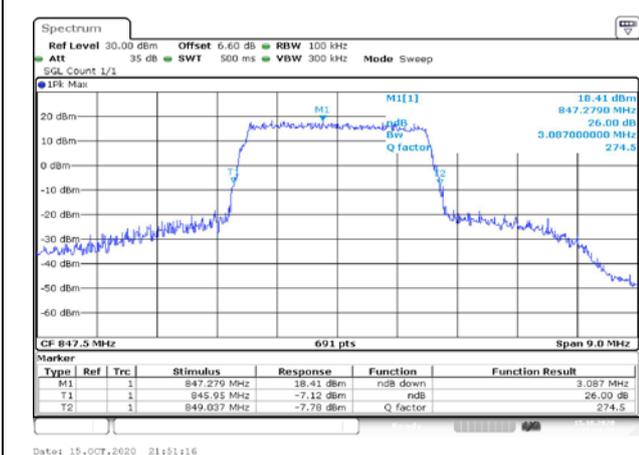


Fig.17

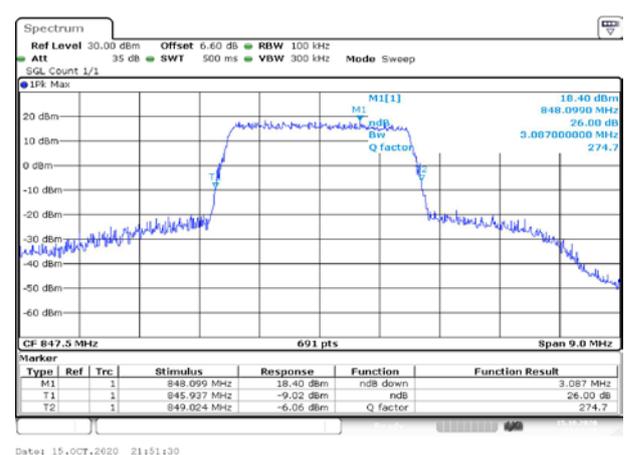


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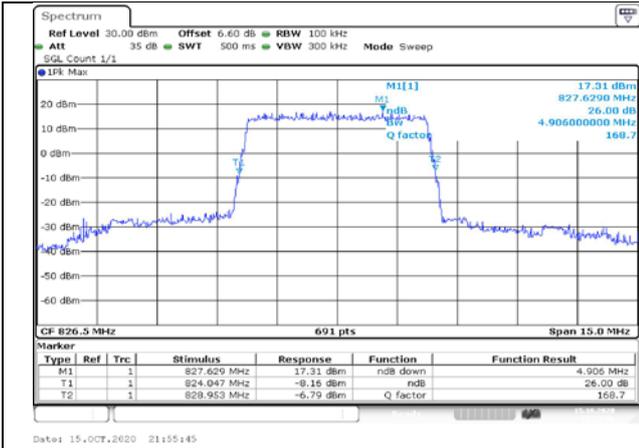


Fig.19

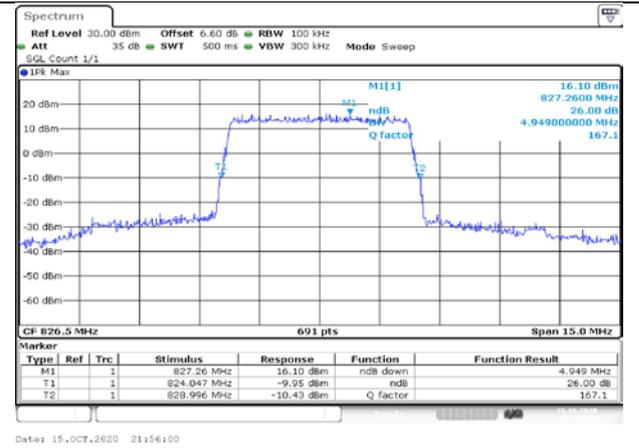


Fig.20

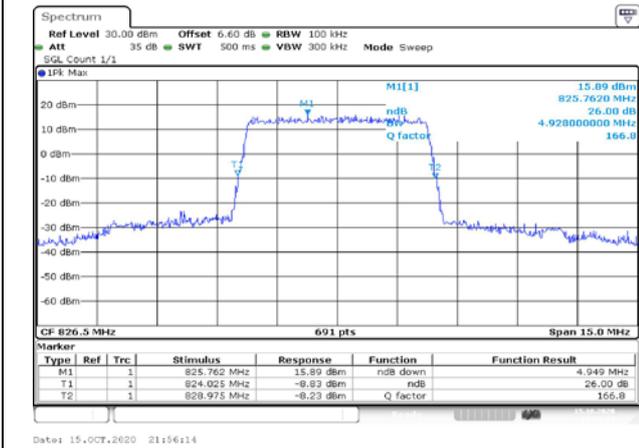


Fig.21

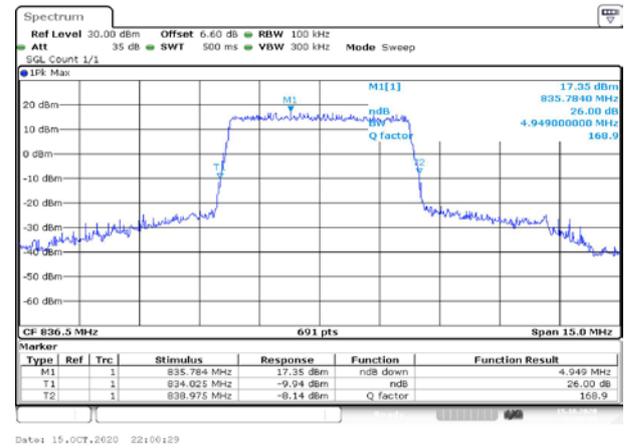


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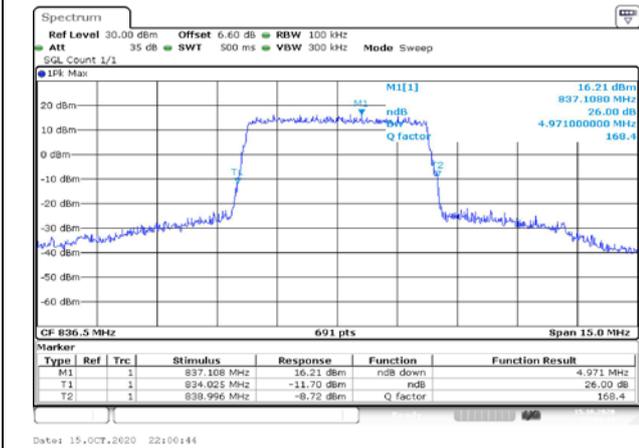


Fig.23

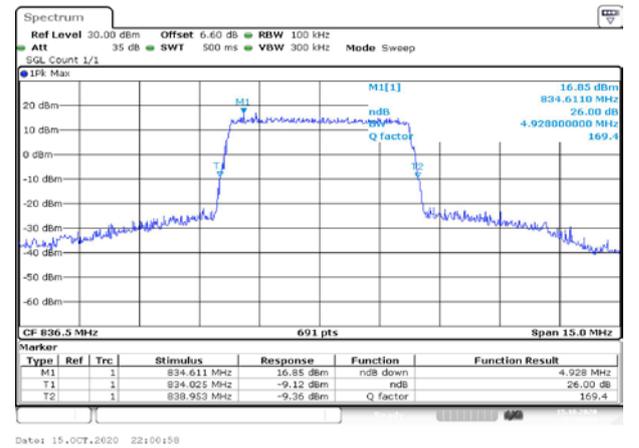


Fig.24

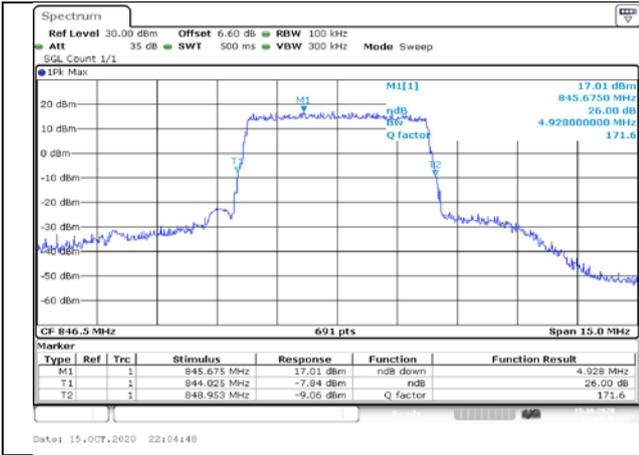


Fig.25

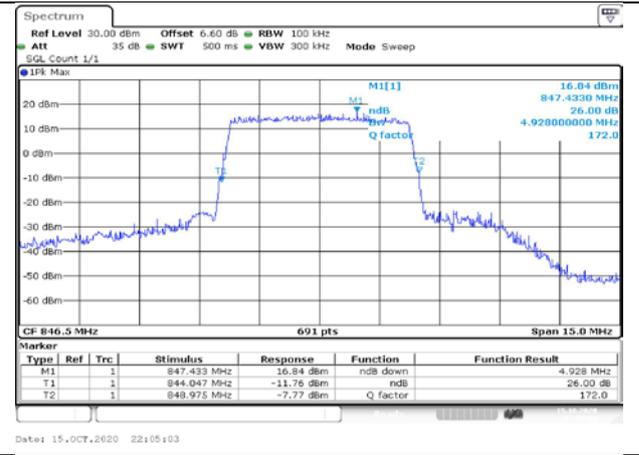


Fig.26

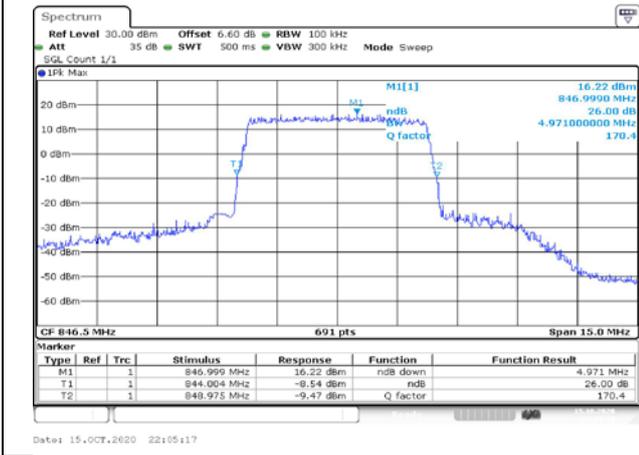


Fig.27

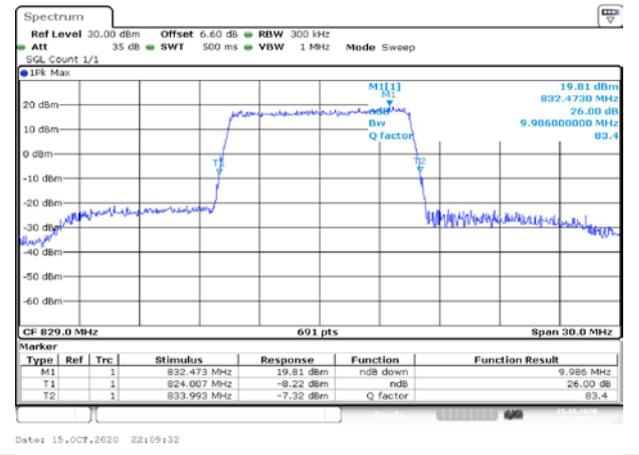


Fig.28

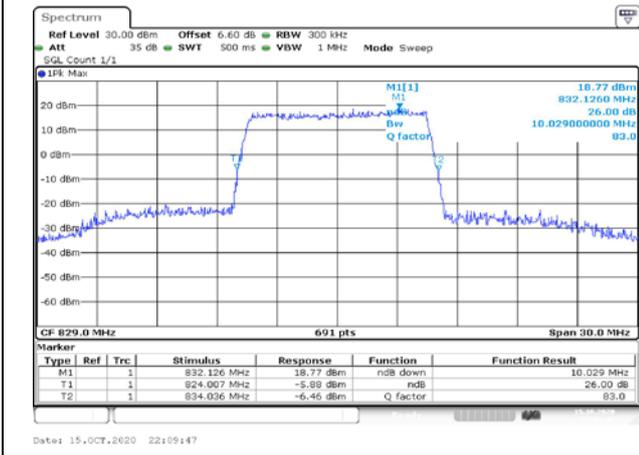


Fig.29

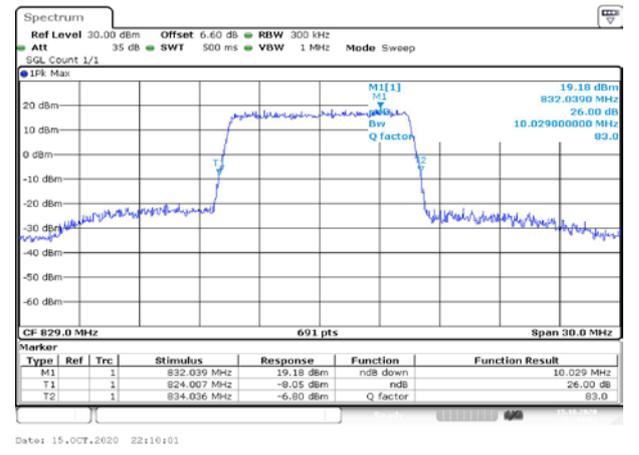


Fig.30

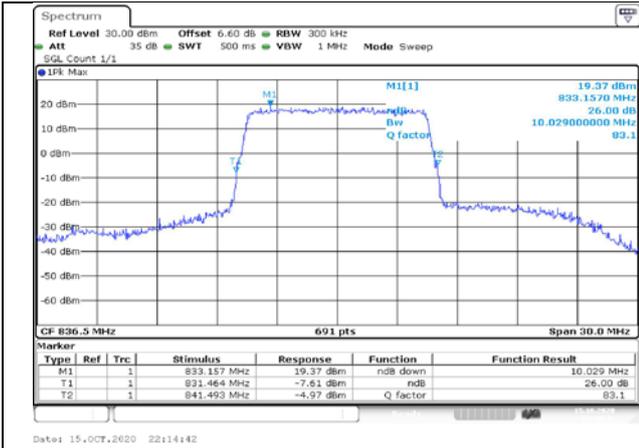


Fig.31

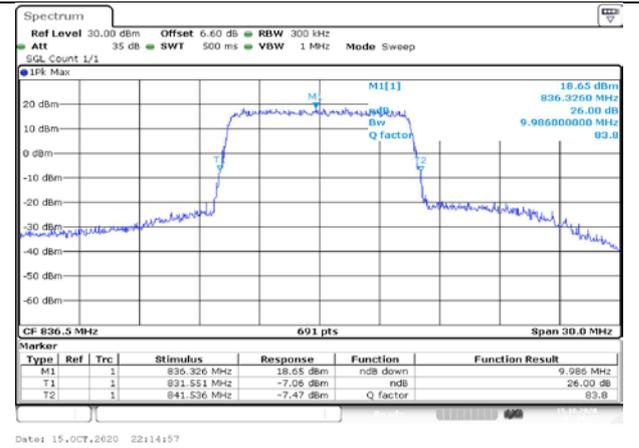


Fig.32

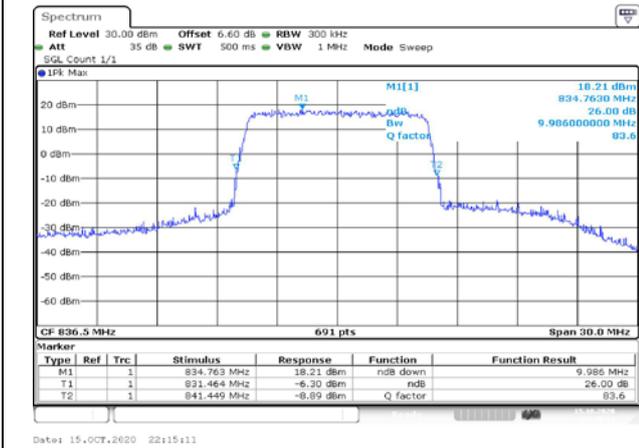


Fig.33

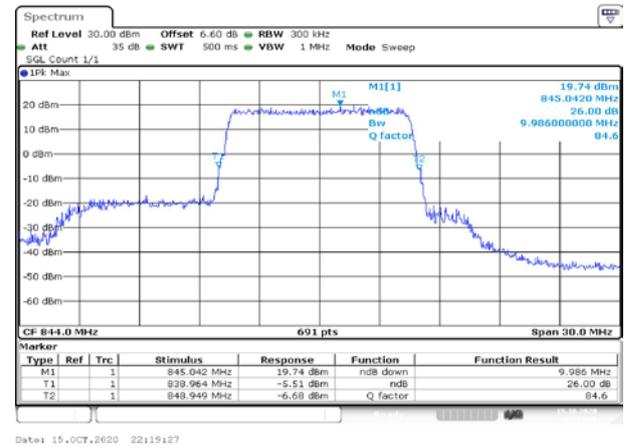


Fig.34

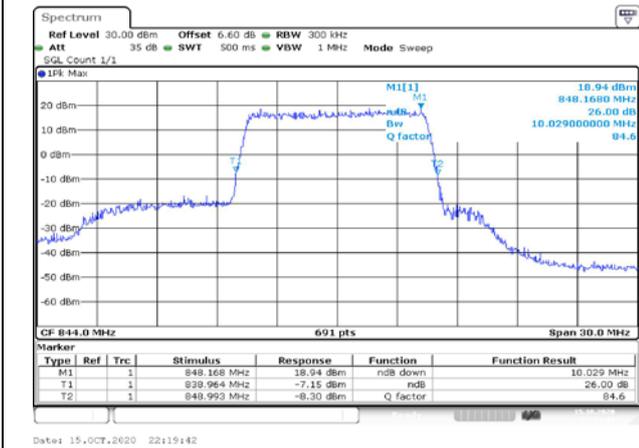


Fig.35

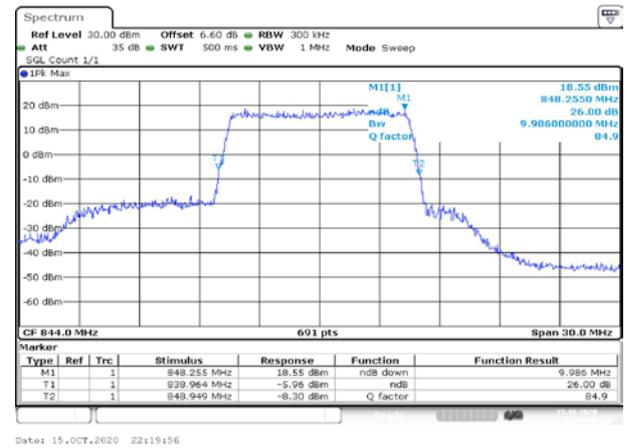


Fig.36

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	

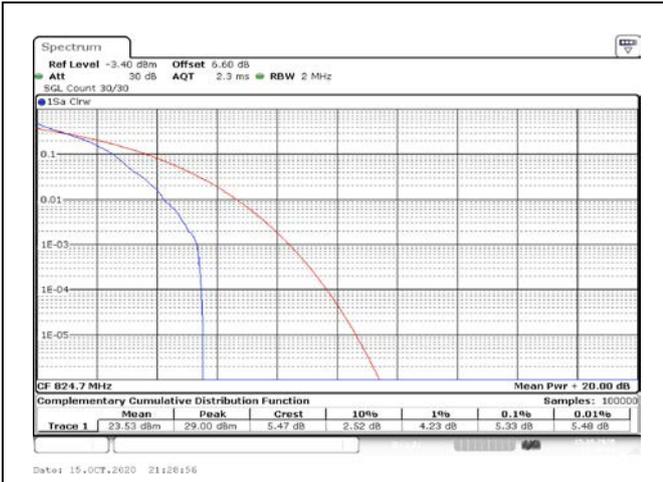


Fig.1

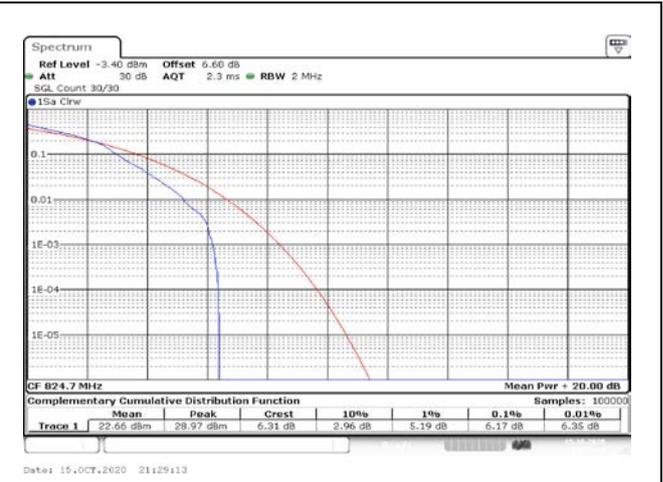


Fig.2

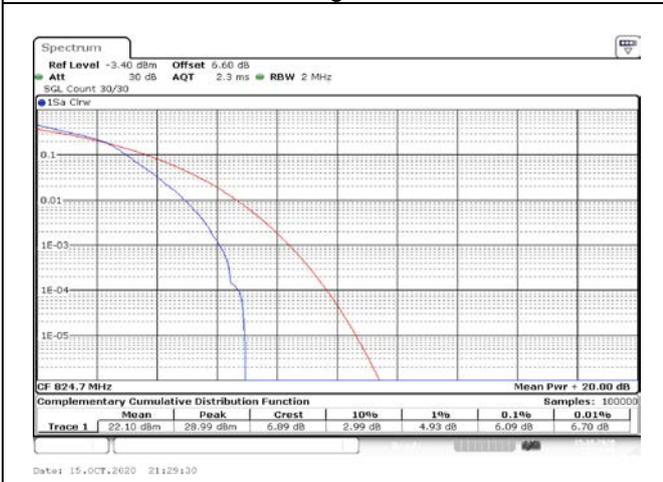


Fig.3

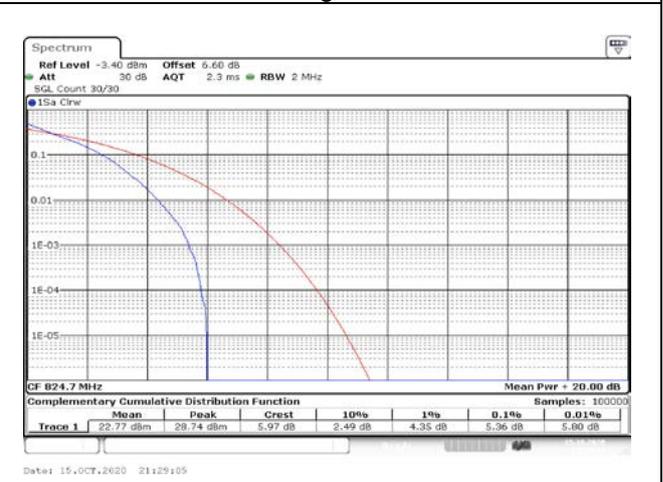


Fig.4

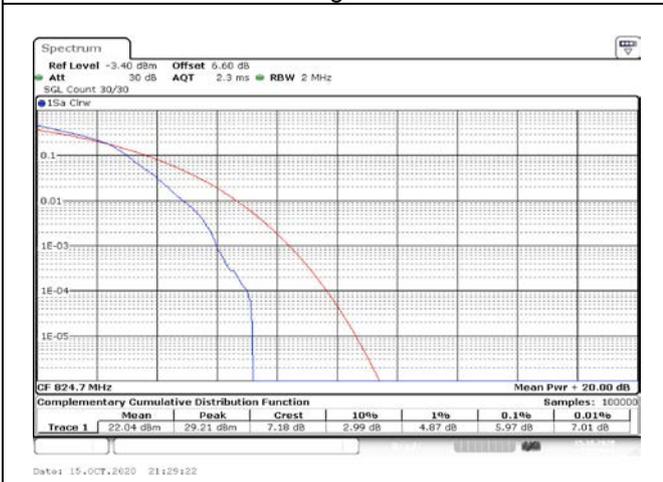


Fig.5

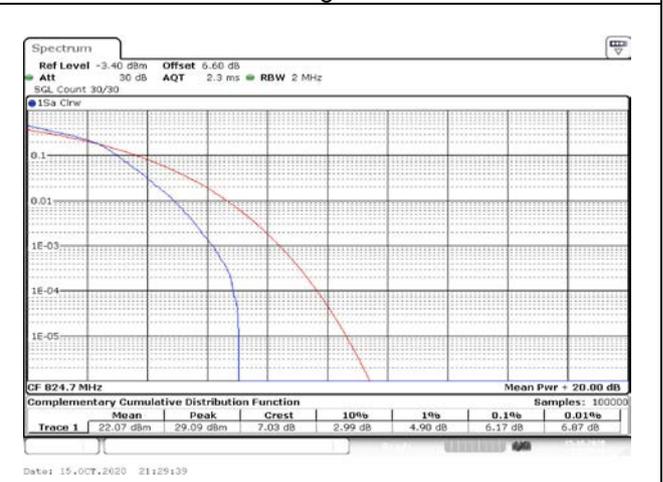


Fig.6

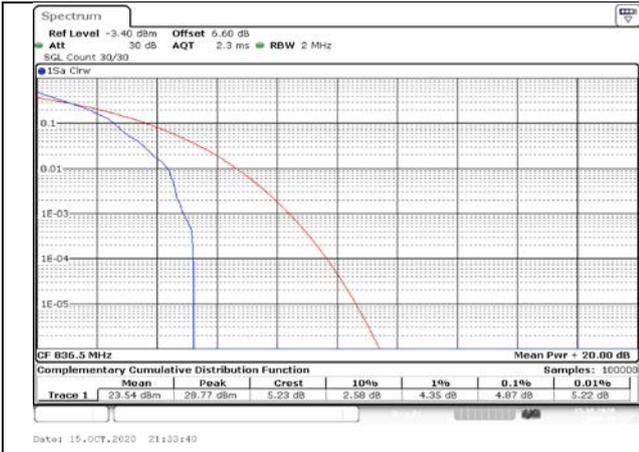


Fig.7

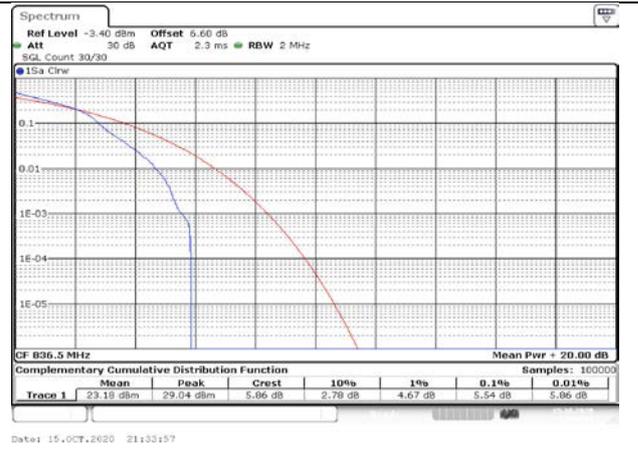


Fig.8

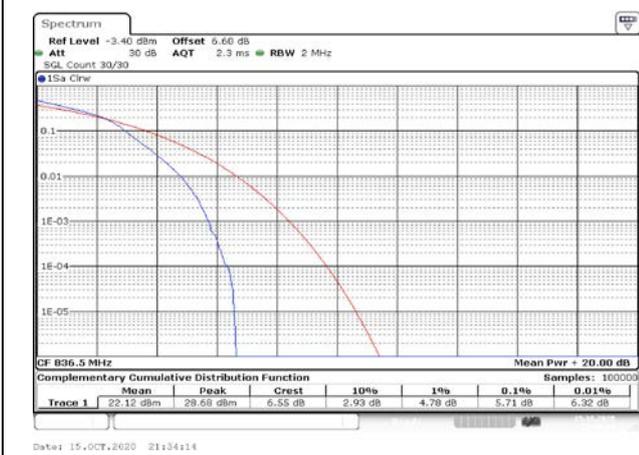


Fig.9

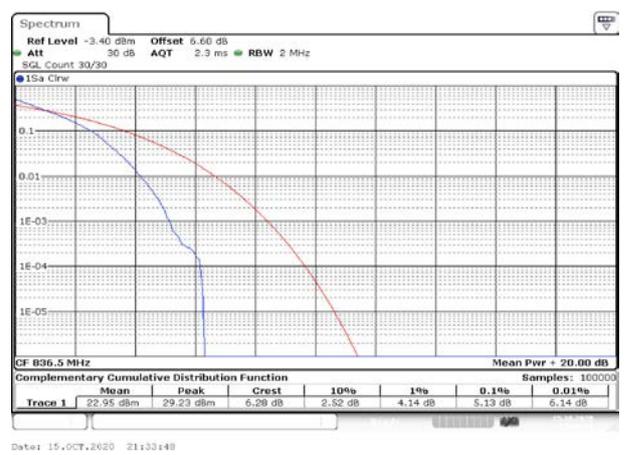


Fig.10

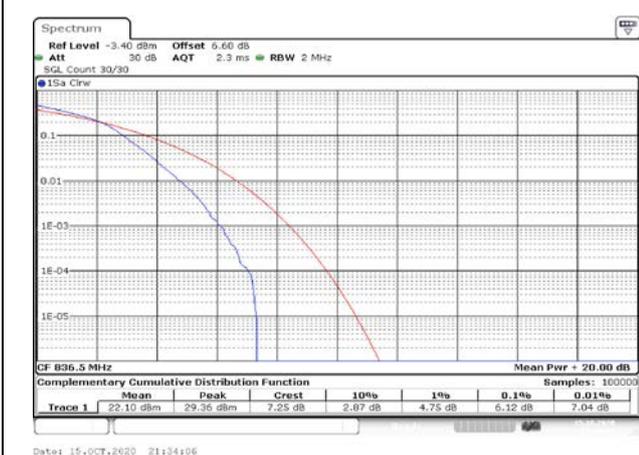


Fig.11

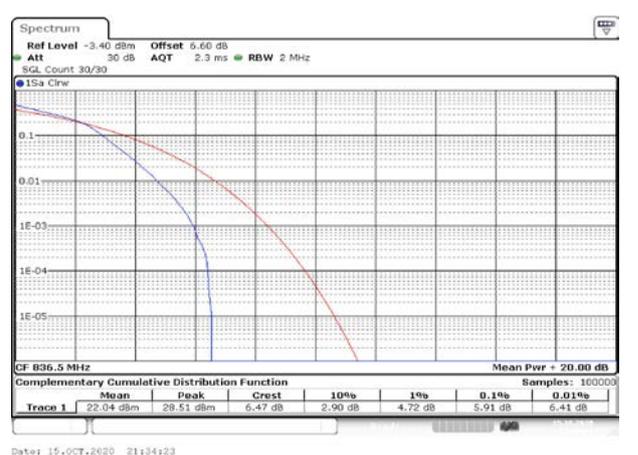


Fig.12

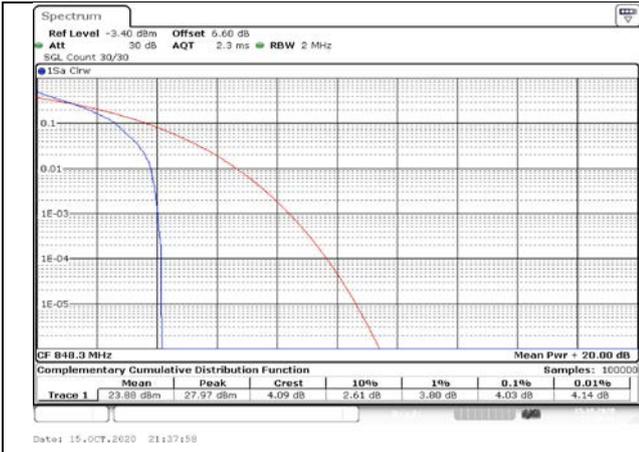


Fig.13

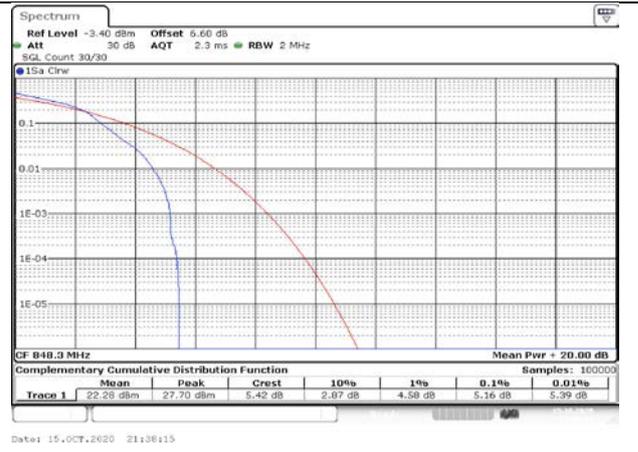


Fig.14

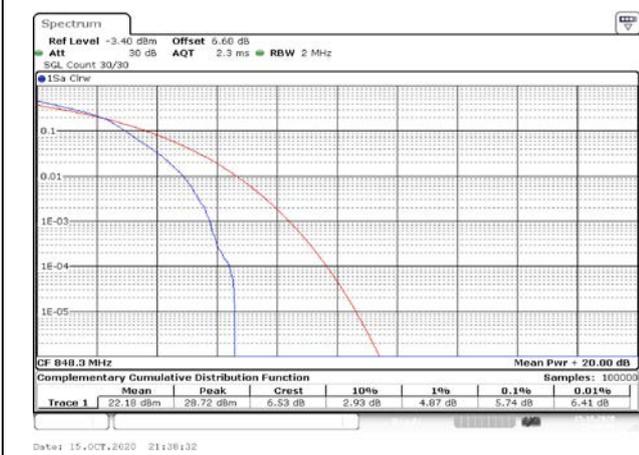


Fig.15

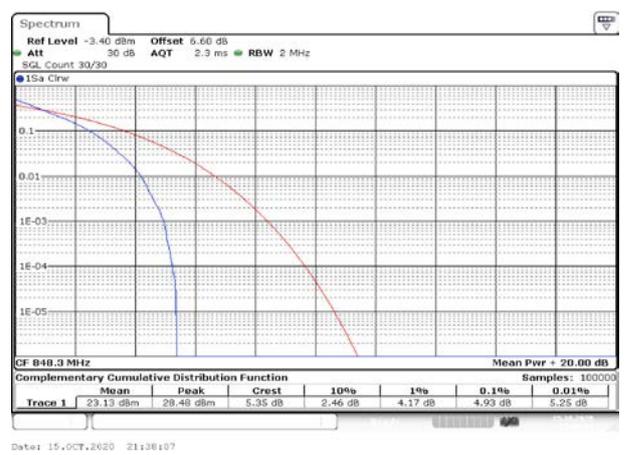


Fig.16

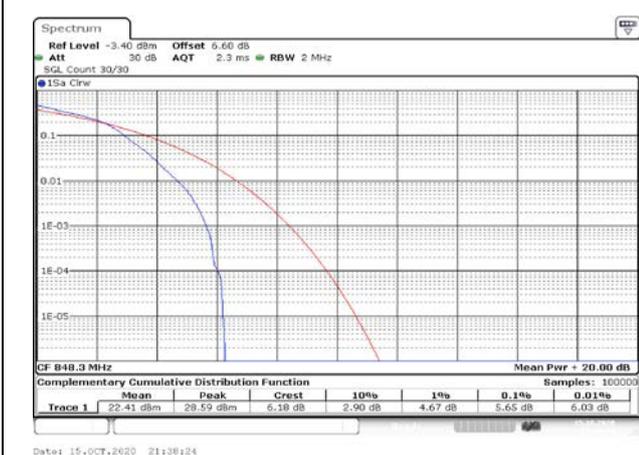


Fig.17

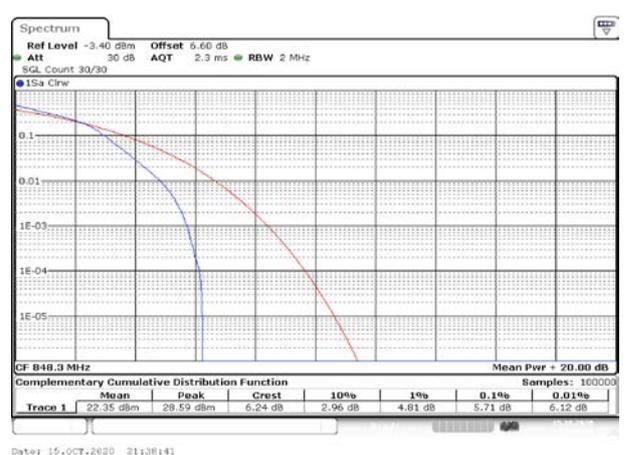


Fig.18