

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	23.97
				1	5	23.83
				3	2	22.91
				6	0	23.07
	836.5	20525		1	0	23.83
				1	5	24.03
				3	2	22.82
				6	0	22.88
	848.3	20643		1	0	23.86
				1	5	24.22
				3	2	22.74
				6	0	22.99
16QAM	824.7	20407	1.4	1	0	23.12
				1	5	23.26
				3	2	22.01
				6	0	22.19
	836.5	20525		1	0	23.16
				1	5	23.26
				3	2	22.01
				6	0	21.91
	848.3	20643		1	0	23.33
				1	5	23.55
				3	2	21.99
				6	0	21.81
64QAM	824.7	20407	1.4	1	0	22.87
				1	5	23.09
				3	2	23.10
				6	0	22.16
	836.5	20525		1	0	23.21
				1	5	23.23
				3	2	22.10
				6	0	21.94
	848.3	20643		1	0	23.27
				1	5	23.20
				3	2	22.01
				6	0	21.96

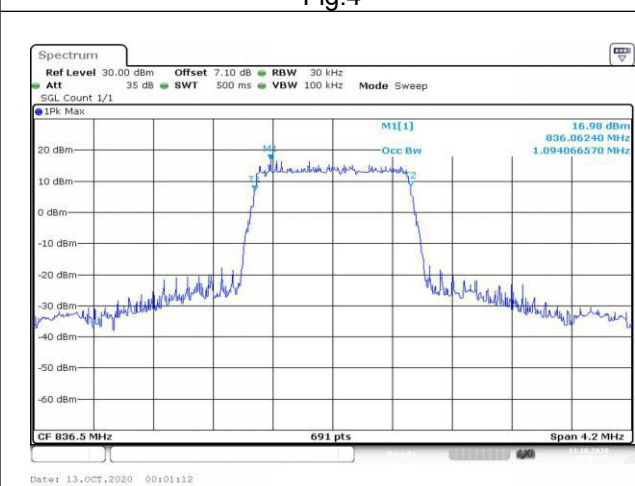
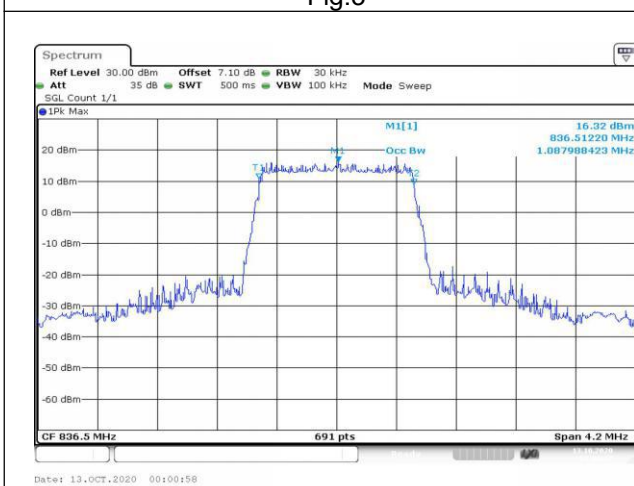
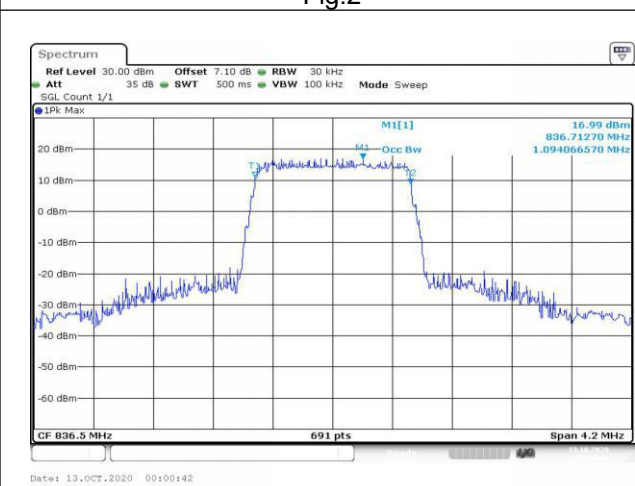
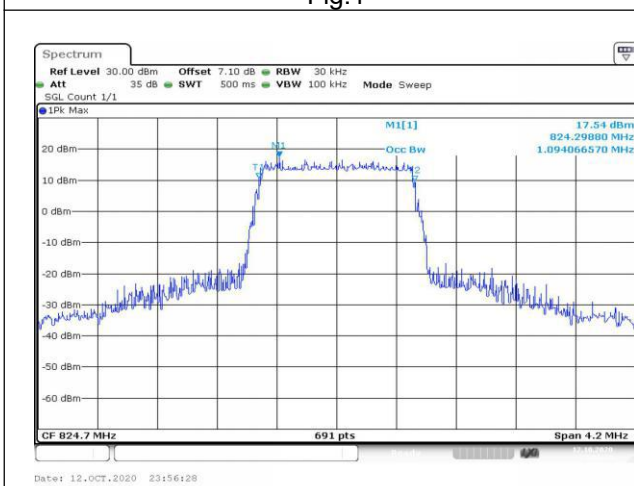
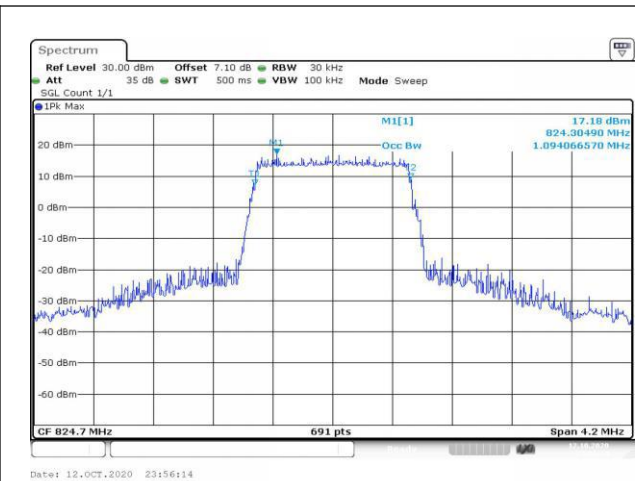
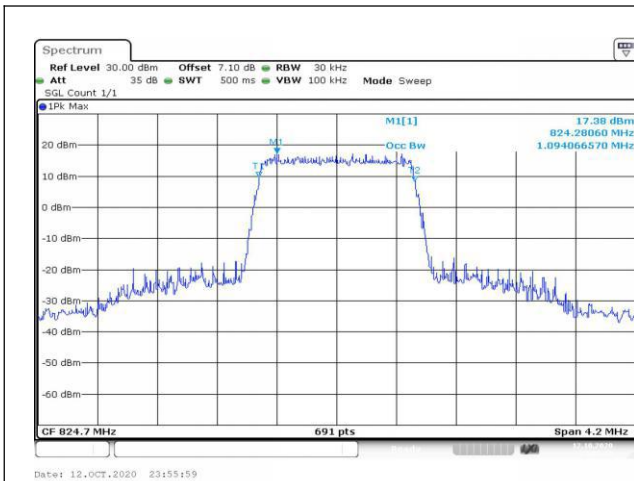
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	825.5	20415	3	1	0	23.90
				1	14	23.86
				8	4	22.92
				15	0	23.04
	836.5	20525		1	0	23.85
				1	14	23.98
				8	4	22.91
				15	0	22.86
	847.5	20635		1	0	23.88
				1	14	24.22
				8	4	22.69
				15	0	23.05
16QAM	825.5	20415	3	1	0	23.15
				1	14	23.31
				8	4	22.01
				15	0	22.12
	836.5	20525		1	0	23.12
				1	14	23.27
				8	4	21.92
				15	0	21.85
	847.5	20635		1	0	23.25
				1	14	23.64
				8	4	21.98
				15	0	21.83
64QAM	825.5	20415	3	1	0	22.78
				1	14	23.10
				8	4	23.19
				15	0	22.15
	836.5	20525		1	0	23.17
				1	14	23.17
				8	4	22.08
				15	0	21.94
	847.5	20635		1	0	23.17
				1	14	23.19
				8	4	22.03
				15	0	21.98

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	826.5	20425	5	1	0	23.99
				1	24	23.82
				12	6	22.82
				25	0	23.10
	836.5	20525		1	0	23.81
				1	24	24.01
				12	6	22.84
				25	0	22.94
	846.5	20625		1	0	23.94
				1	24	24.36
				12	6	22.69
				25	0	22.92
16QAM	826.5	20425	5	1	0	23.13
				1	24	23.30
				12	6	22.09
				25	0	22.20
	836.5	20525		1	0	23.24
				1	24	23.15
				12	6	21.94
				25	0	21.96
	846.5	20625		1	0	23.30
				1	24	23.63
				12	6	21.97
				25	0	21.83
64QAM	826.5	20425	5	1	0	22.86
				1	24	23.10
				12	6	23.17
				25	0	22.10
	836.5	20525		1	0	23.13
				1	24	23.21
				12	6	21.98
				25	0	22.03
	846.5	20625		1	0	23.23
				1	24	23.25
				12	6	21.98
				25	0	21.91

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	829	20450	10	1	0	24.02
				1	49	23.95
				24	12	22.94
				50	0	23.12
	836.5	20525		1	0	23.92
				1	49	24.11
				24	12	22.94
				50	0	22.96
	844	20600		1	0	23.98
				1	49	24.36
				24	12	22.83
				50	0	23.05
16QAM	829	20450	10	1	0	23.21
				1	49	23.32
				24	12	22.14
				50	0	22.24
	836.5	20525		1	0	23.26
				1	49	23.28
				24	12	22.04
				50	0	21.97
	844	20600		1	0	23.34
				1	49	23.65
				24	12	22.01
				50	0	21.91
64QAM	829	20450	10	1	0	22.87
				1	49	23.21
				24	12	23.19
				50	0	22.19
	836.5	20525		1	0	23.27
				1	49	23.31
				24	12	22.13
				50	0	22.06
	844	20600		1	0	23.32
				1	49	23.27
				24	12	22.12
				50	0	22.03

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	1.094	Fig.1	1.094	Fig.2	1.094	Fig.3
	836.5	20525		6	0	1.094	Fig.4	1.088	Fig.5	1.094	Fig.6
	848.3	20643		6	0	1.100	Fig.7	1.094	Fig.8	1.106	Fig.9
	825.5	20415	3	15	0	2.748	Fig.10	2.748	Fig.11	2.748	Fig.12
	836.5	20525		15	0	2.735	Fig.13	2.735	Fig.14	2.735	Fig.15
	847.5	20635		15	0	2.761	Fig.16	2.748	Fig.17	2.735	Fig.18
	826.5	20425	5	25	0	4.493	Fig.19	4.515	Fig.20	4.493	Fig.21
	836.5	20525		25	0	4.493	Fig.22	4.515	Fig.23	4.515	Fig.24
	846.5	20625		25	0	4.493	Fig.25	4.515	Fig.26	4.515	Fig.27
	829	20450	10	50	0	9.030	Fig.28	9.030	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	9.074	Fig.34	9.074	Fig.35	9.074	Fig.36



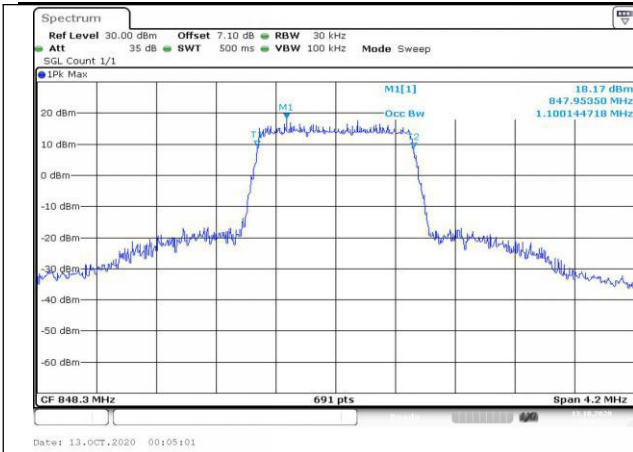


Fig.7

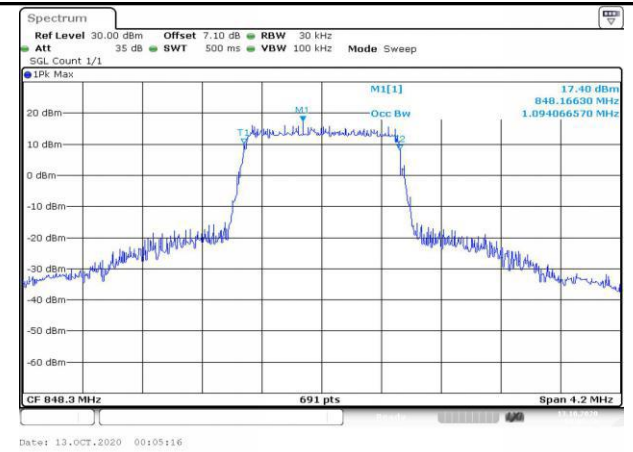


Fig.8

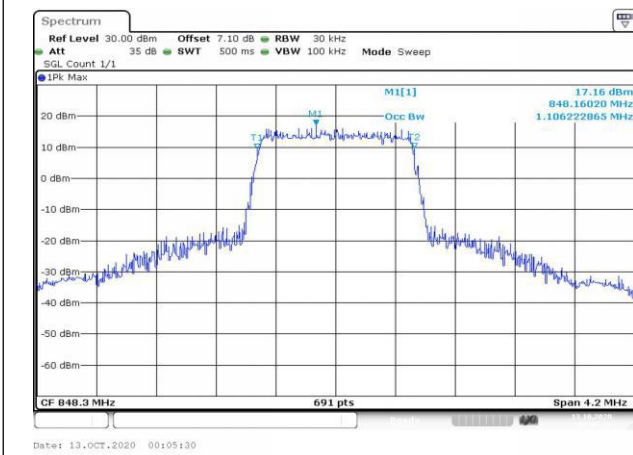


Fig.9

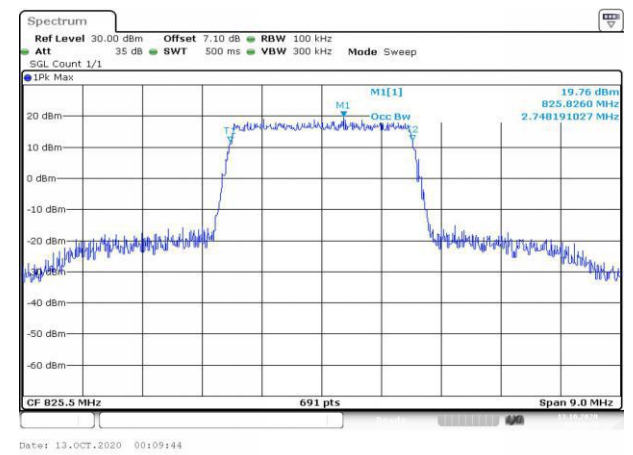


Fig.10

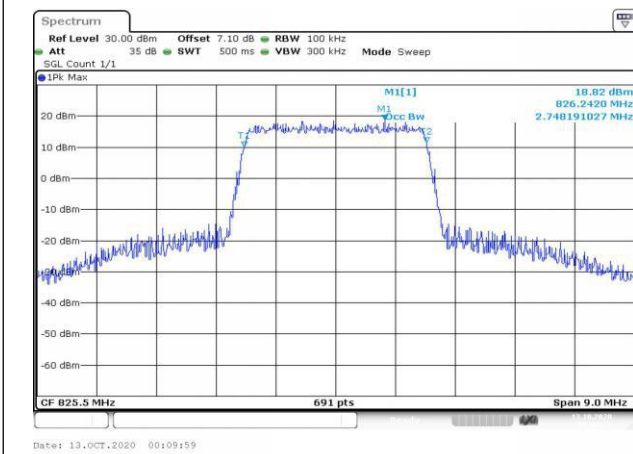


Fig.11

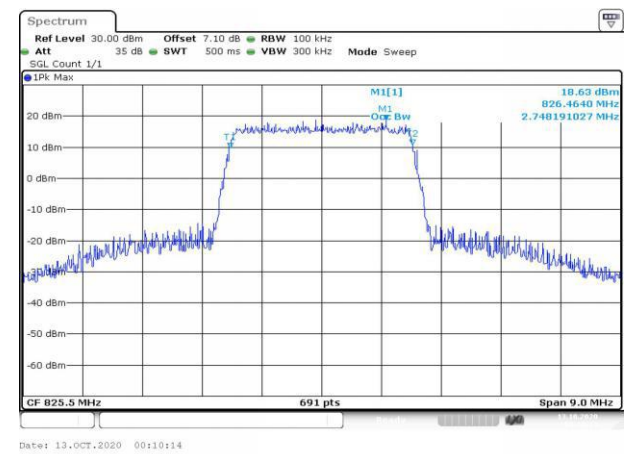
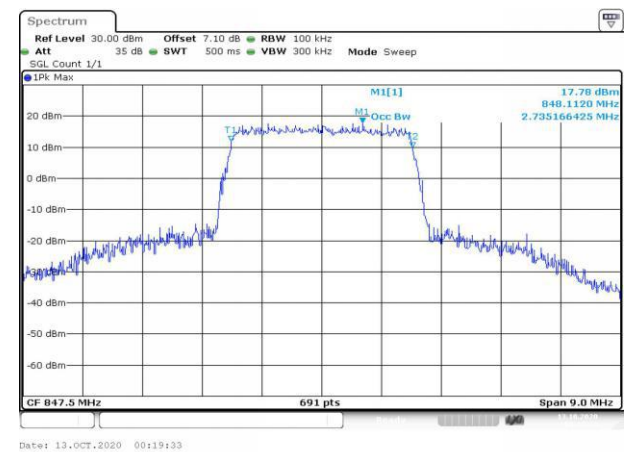
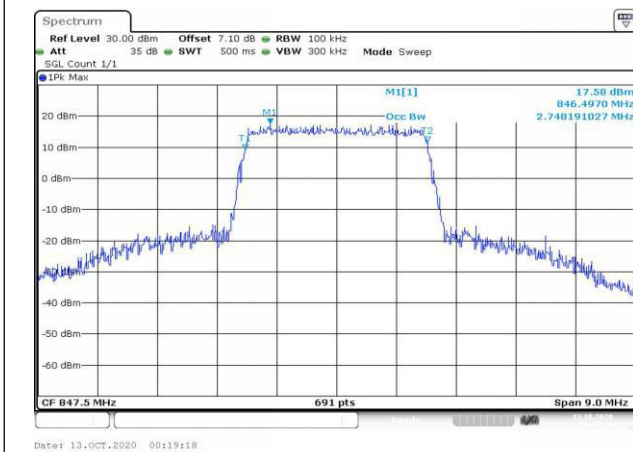
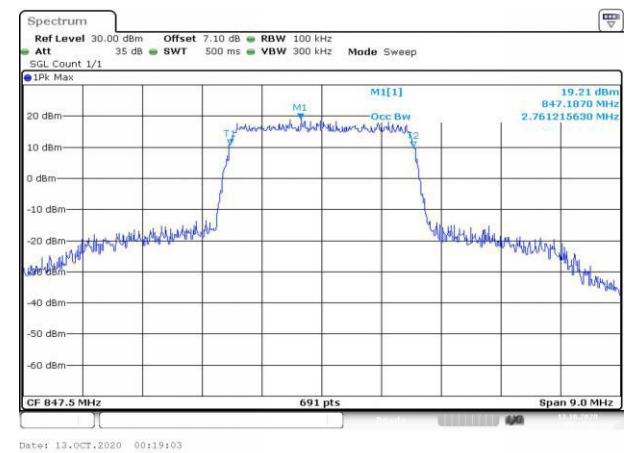
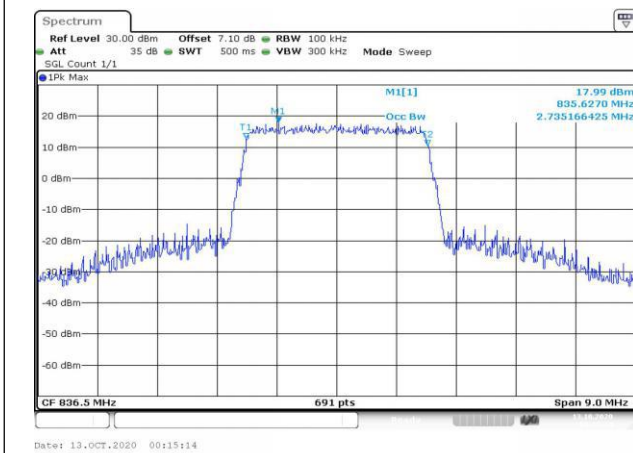
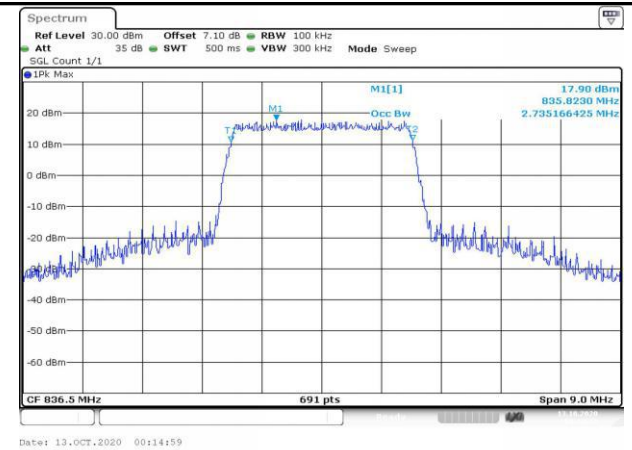
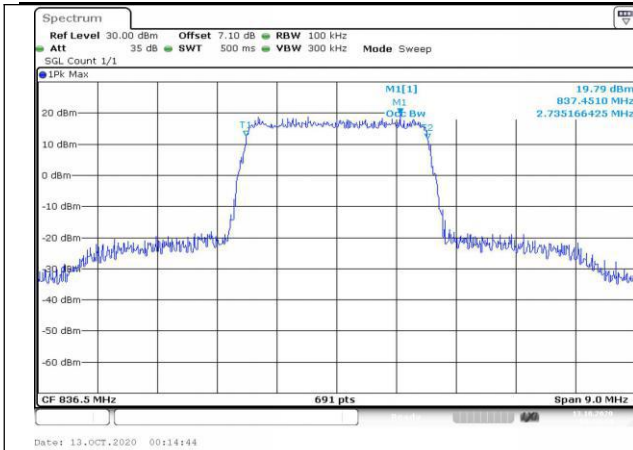
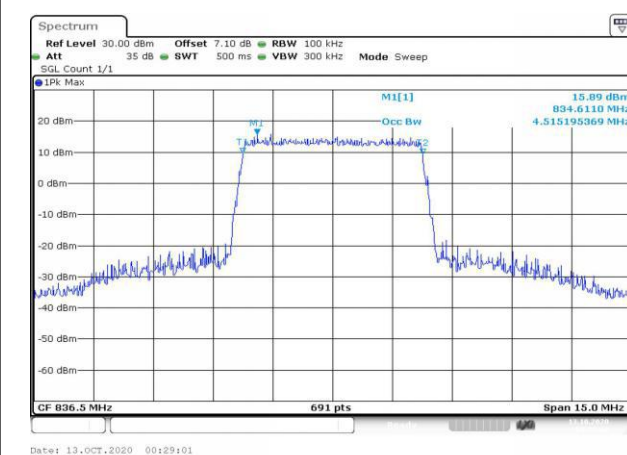
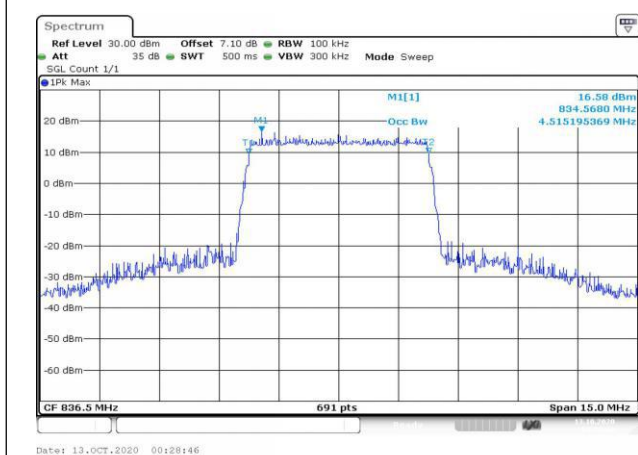
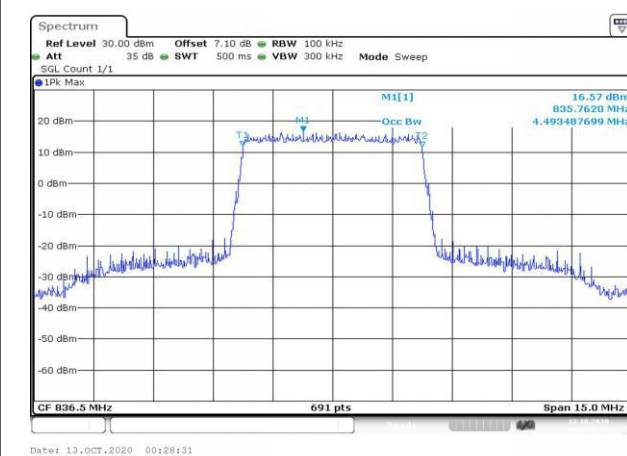
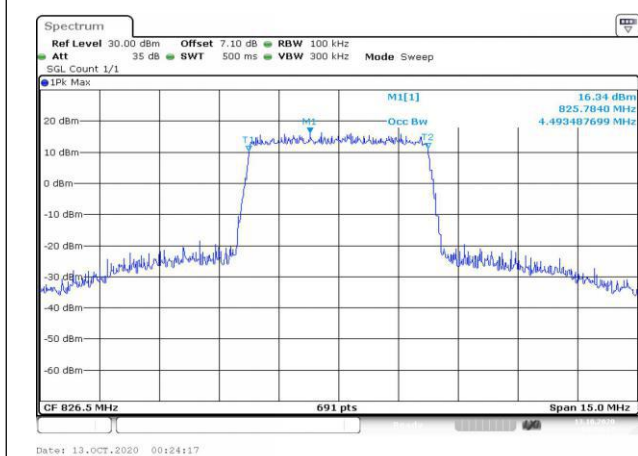
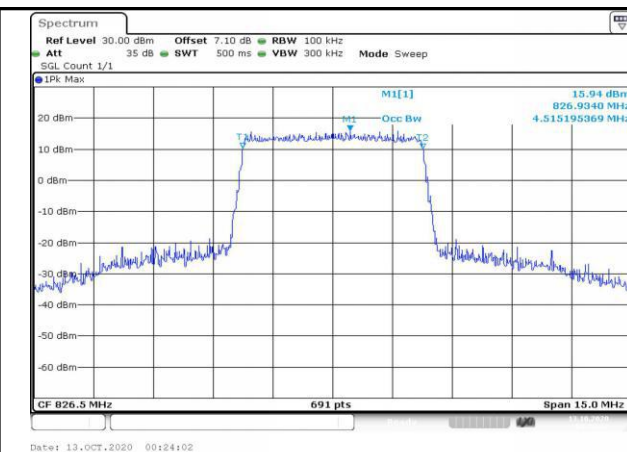
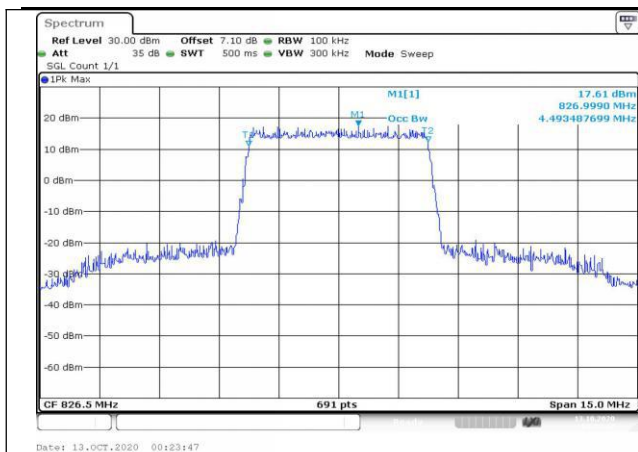


Fig.12





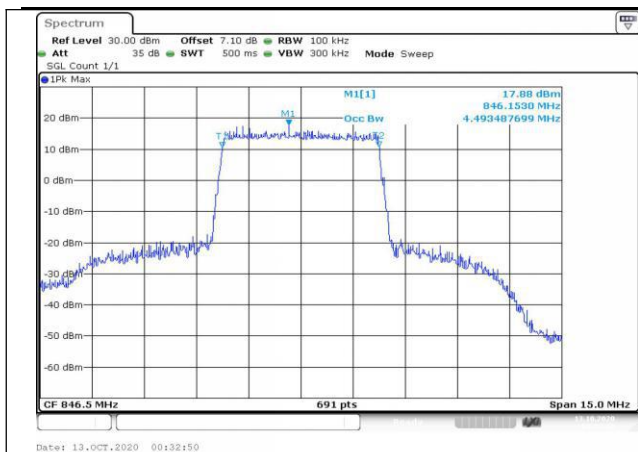


Fig.25

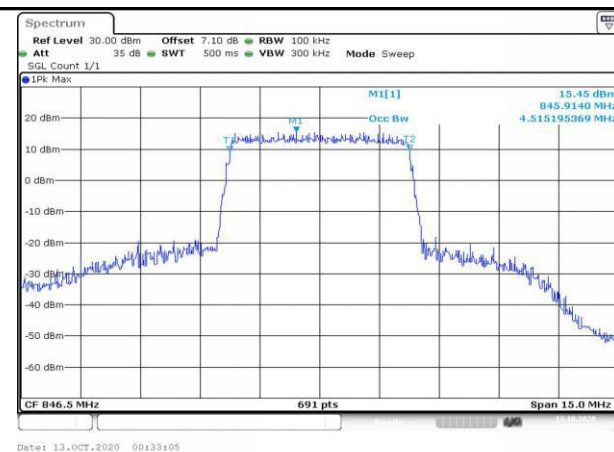


Fig.26

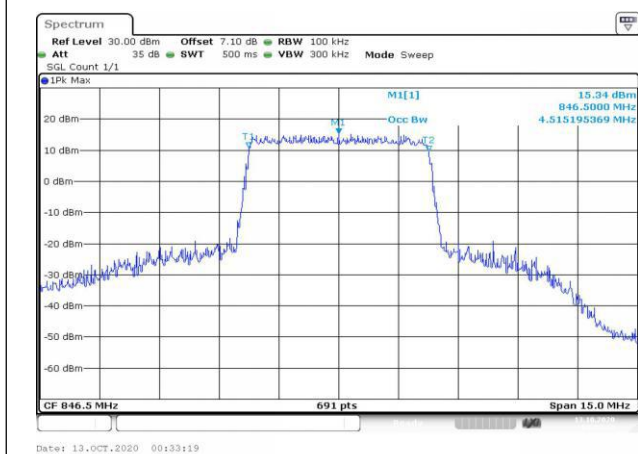


Fig.27

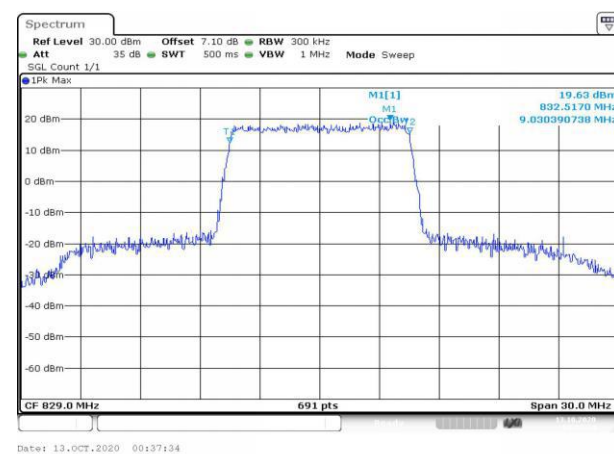


Fig.28

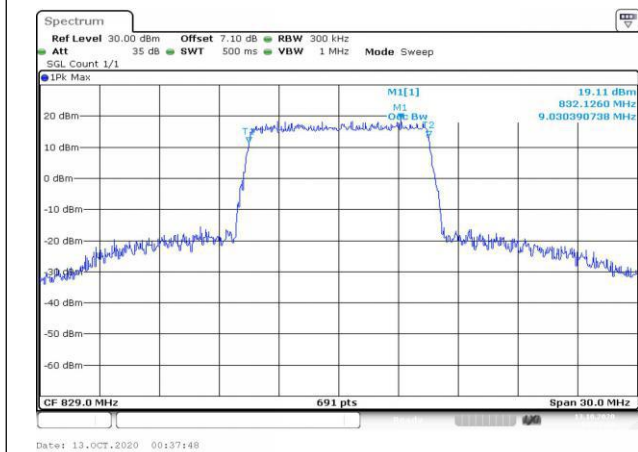


Fig.29

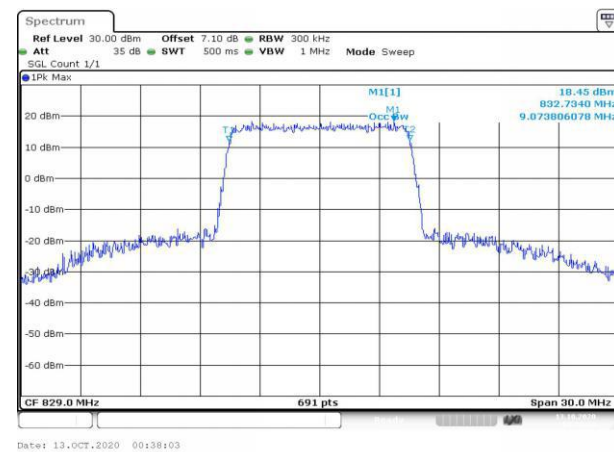
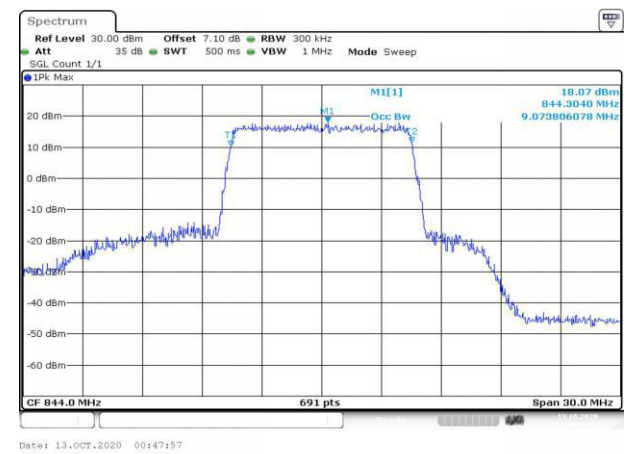
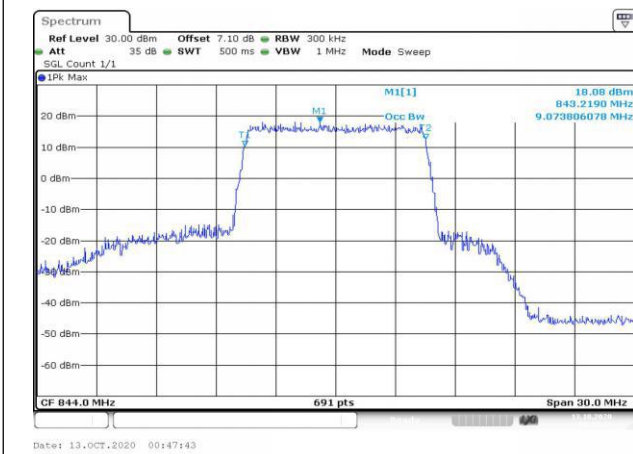
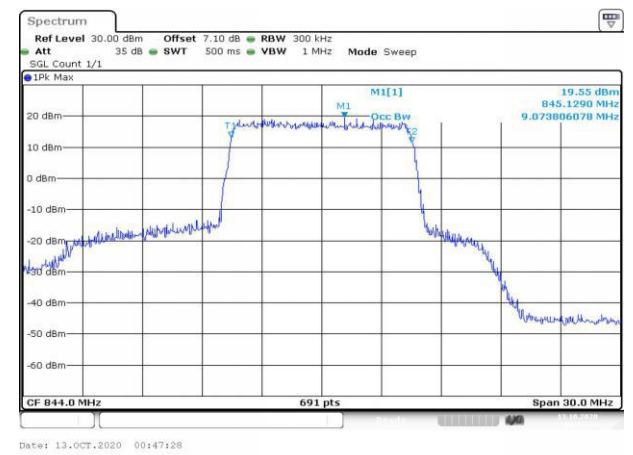
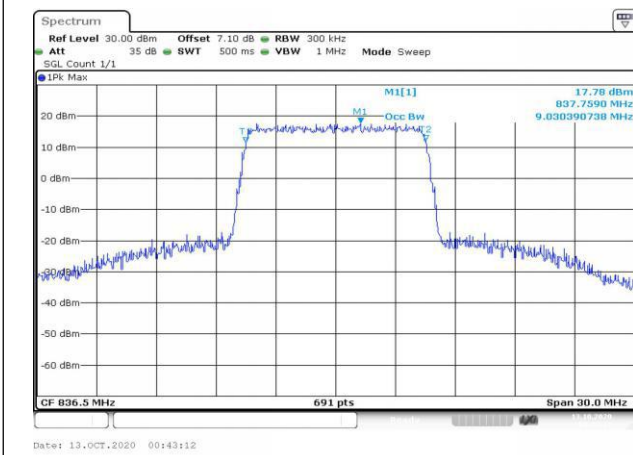
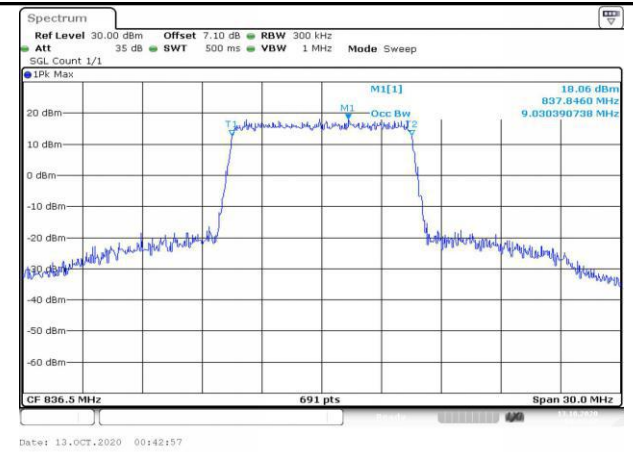
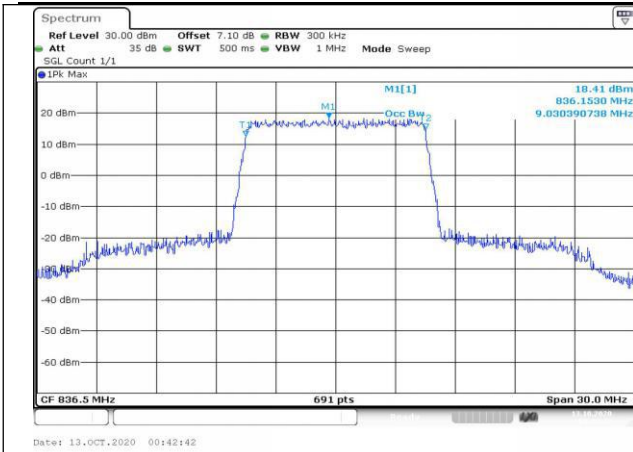


Fig.30



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	1.228	Fig.1	1.240	Fig.2	1.246	Fig.3
	836.5	20525		6	0	1.240	Fig.4	1.228	Fig.5	1.240	Fig.6
	848.3	20643		6	0	1.222	Fig.7	1.234	Fig.8	1.228	Fig.9
	825.5	20415	3	15	0	3.087	Fig.10	3.100	Fig.11	3.087	Fig.12
	836.5	20525		15	0	3.074	Fig.13	3.074	Fig.14	3.100	Fig.15
	847.5	20635		15	0	3.087	Fig.16	3.048	Fig.17	3.100	Fig.18
	826.5	20425	5	25	0	4.928	Fig.19	4.949	Fig.20	4.949	Fig.21
	836.5	20525		25	0	4.949	Fig.22	4.949	Fig.23	4.949	Fig.24
	846.5	20625		25	0	4.949	Fig.25	4.949	Fig.26	4.949	Fig.27
	829	20450	10	50	0	10.072	Fig.28	10.029	Fig.29	10.072	Fig.30
	836.5	20525		50	0	9.942	Fig.31	10.029	Fig.32	9.942	Fig.33
	844	20600		50	0	9.986	Fig.34	10.072	Fig.35	10.072	Fig.36

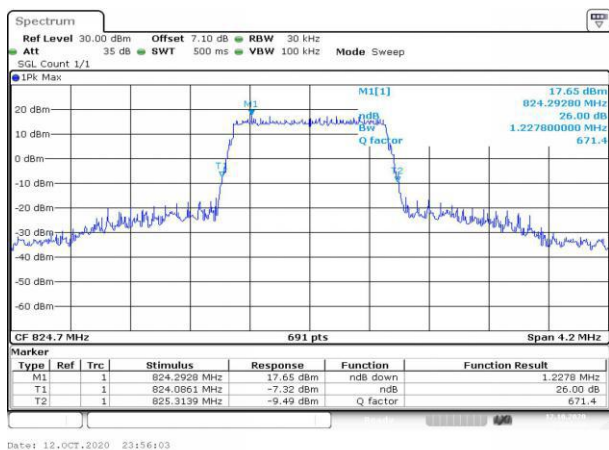


Fig.1

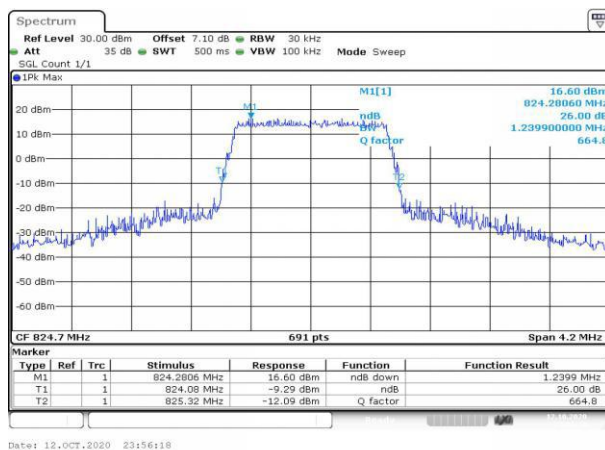


Fig.2

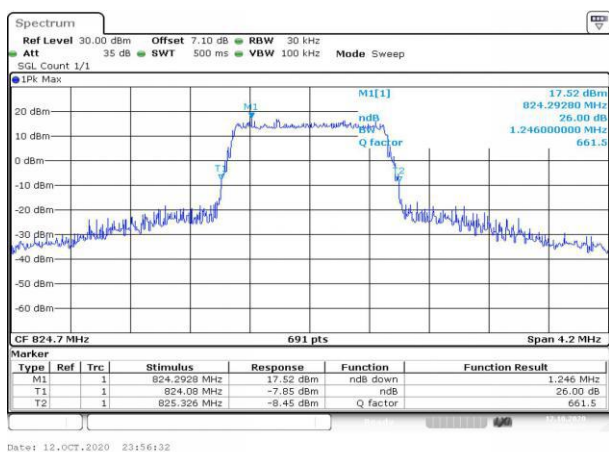


Fig.3

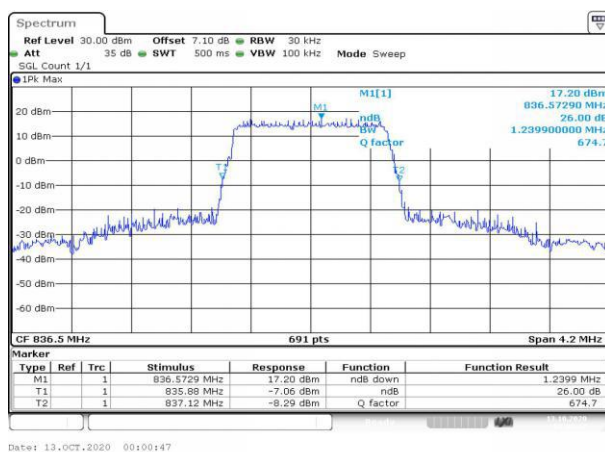


Fig.4

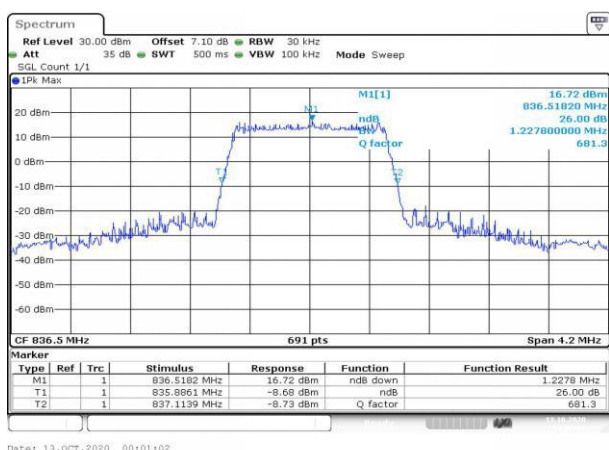


Fig.5

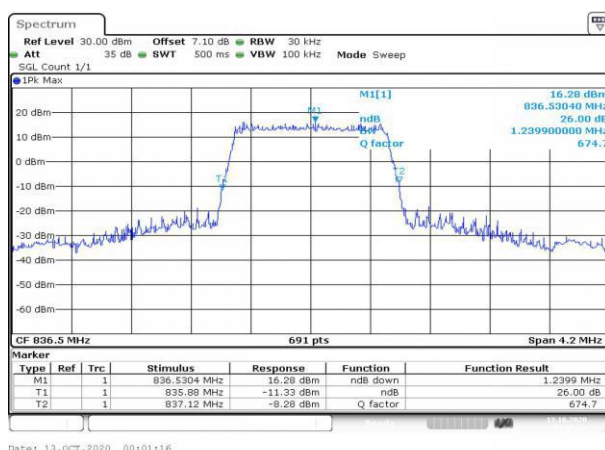


Fig.6

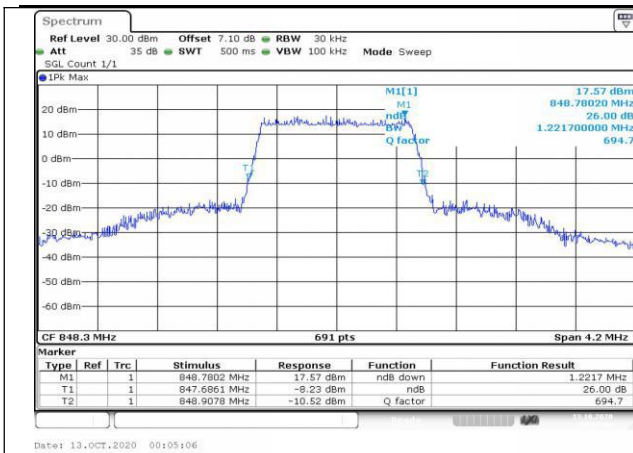


Fig.7

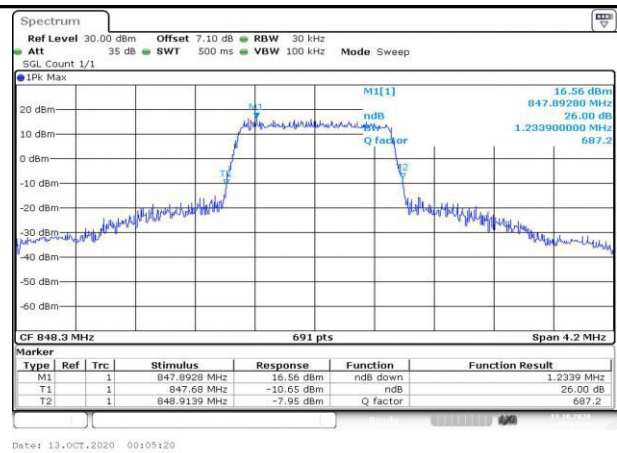


Fig.8

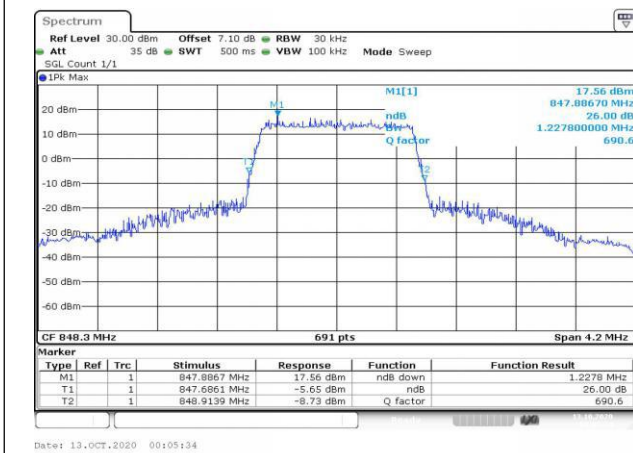


Fig.9

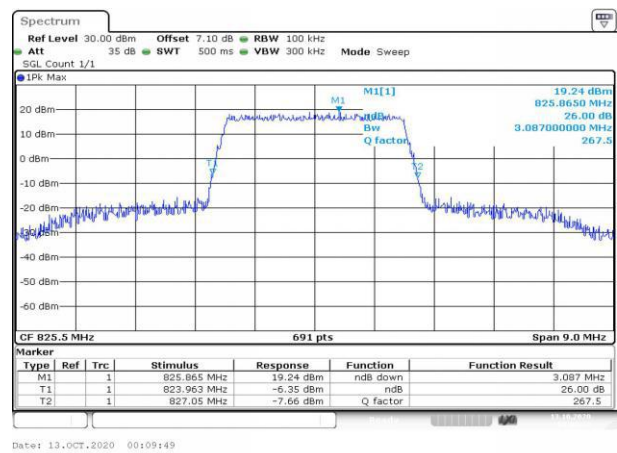


Fig.10

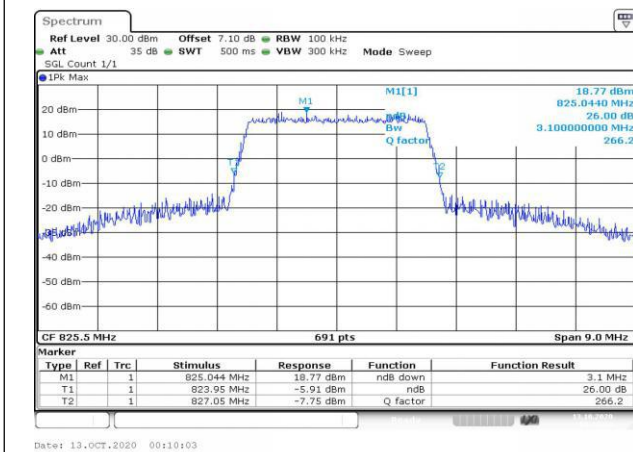


Fig.11

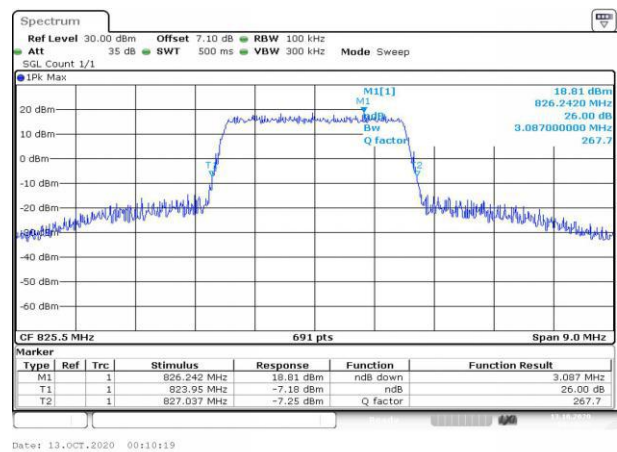


Fig.12

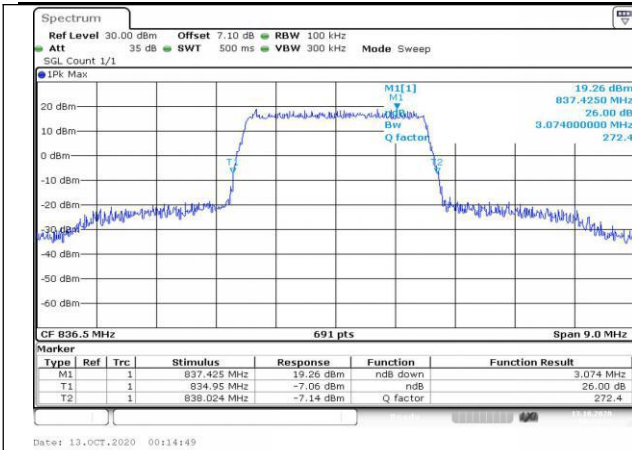


Fig.13

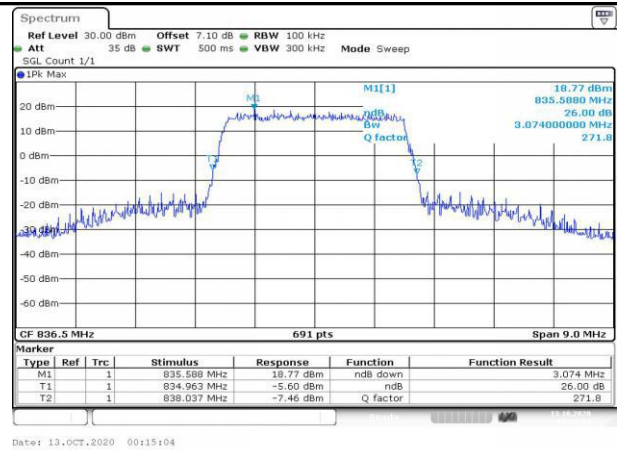


Fig.14

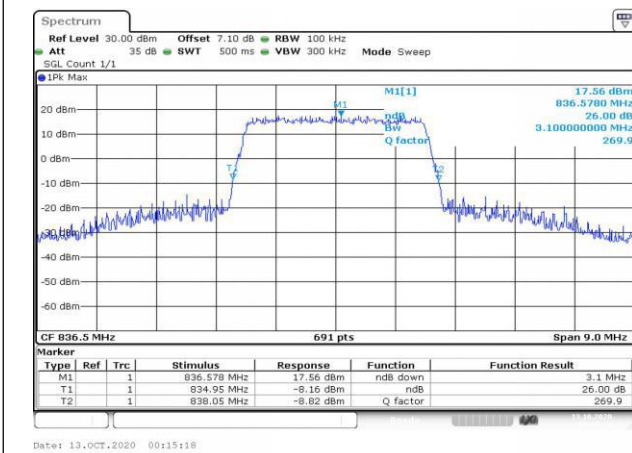


Fig.15

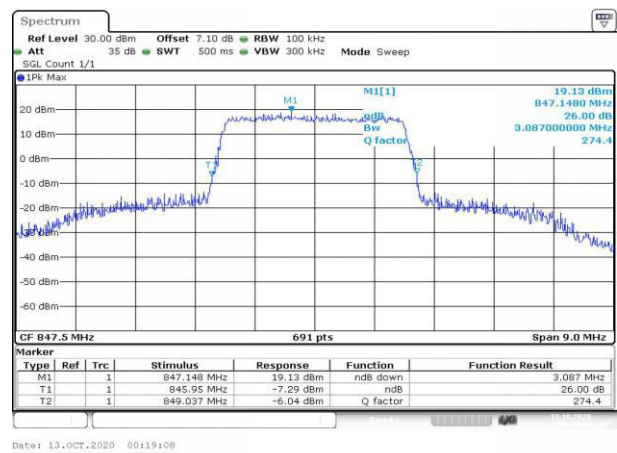


Fig.16

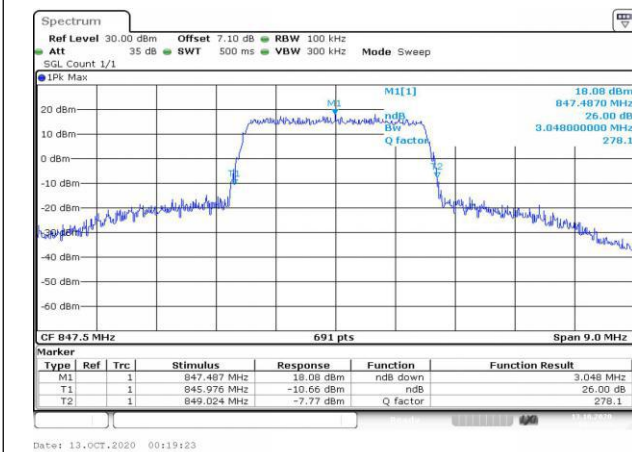


Fig.17

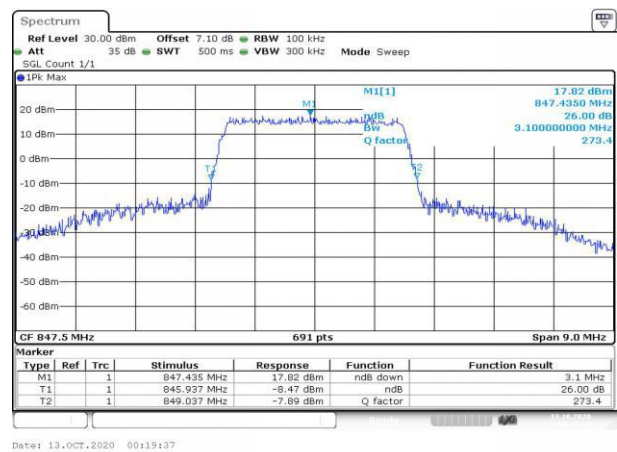


Fig.18

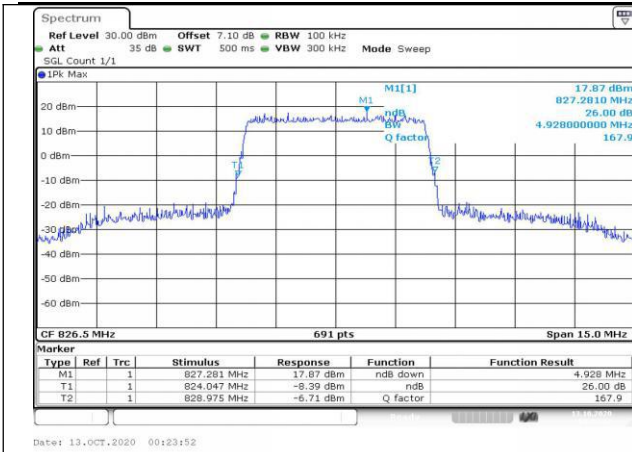


Fig.19

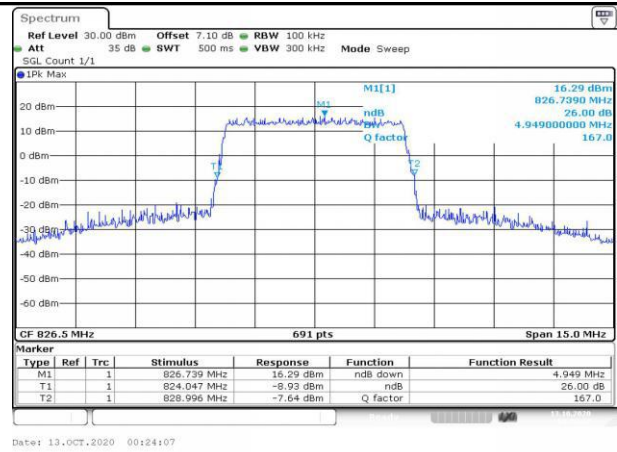


Fig.20

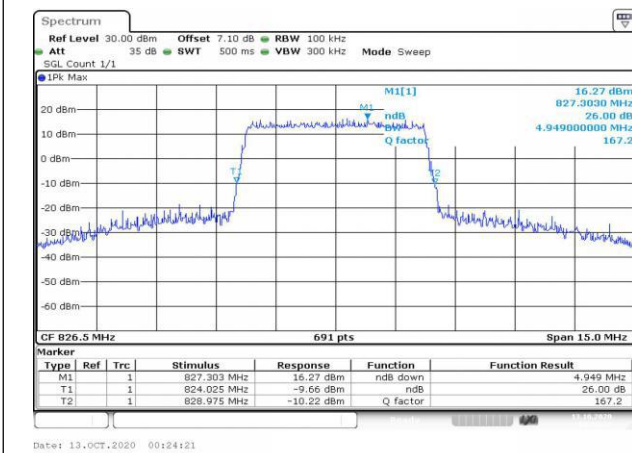


Fig.21

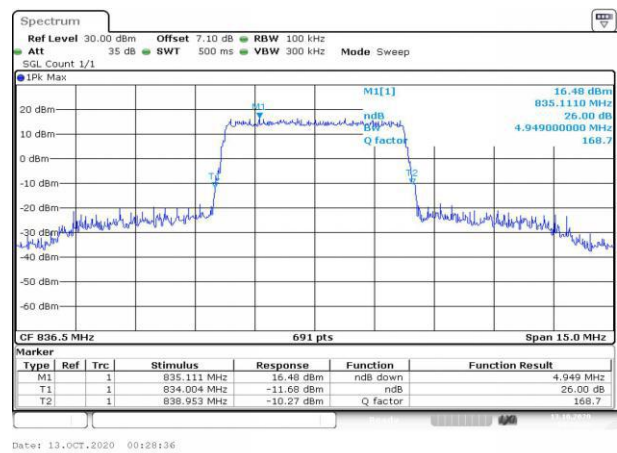


Fig.22

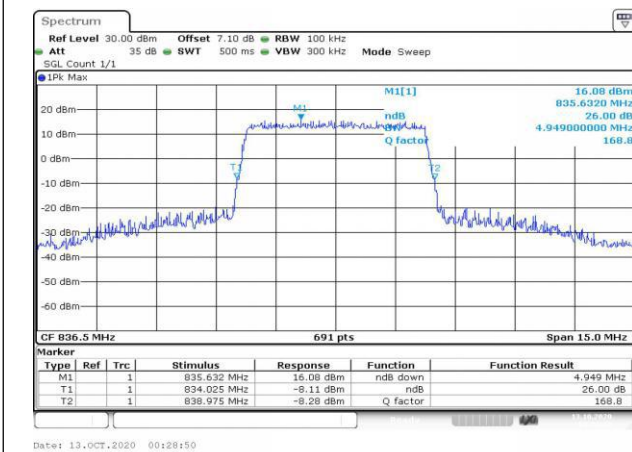


Fig.23

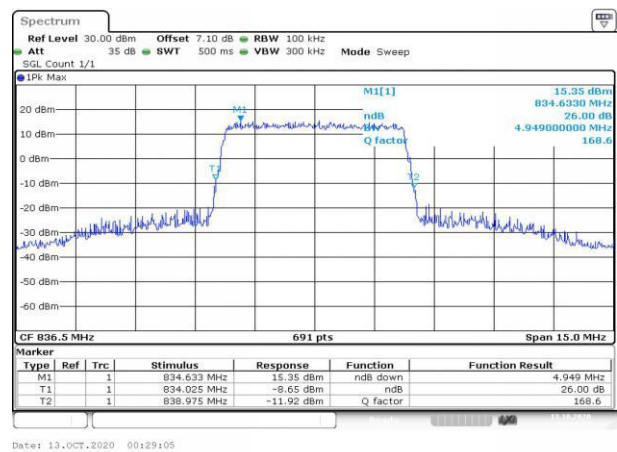


Fig.24

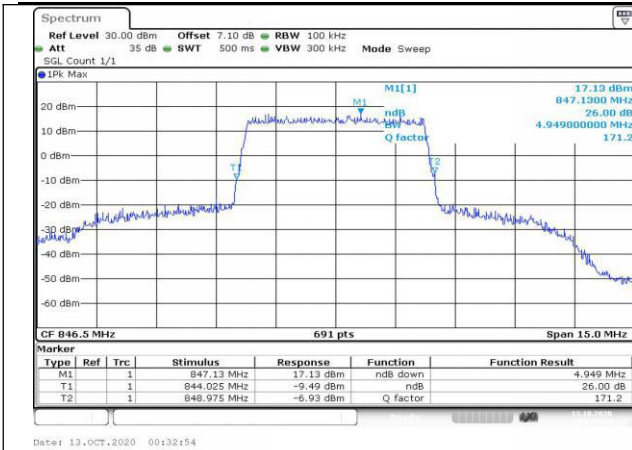


Fig.25

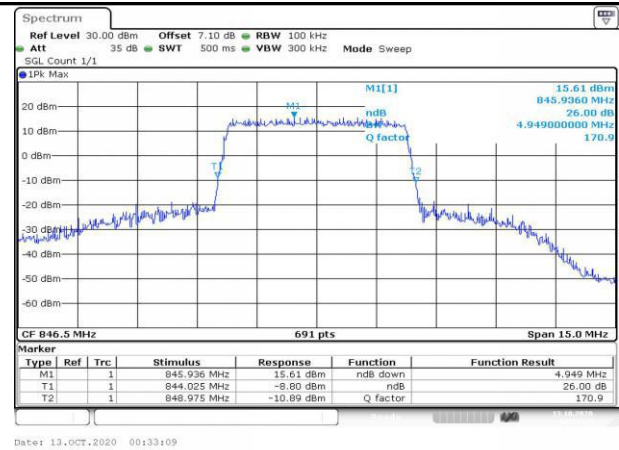


Fig.26

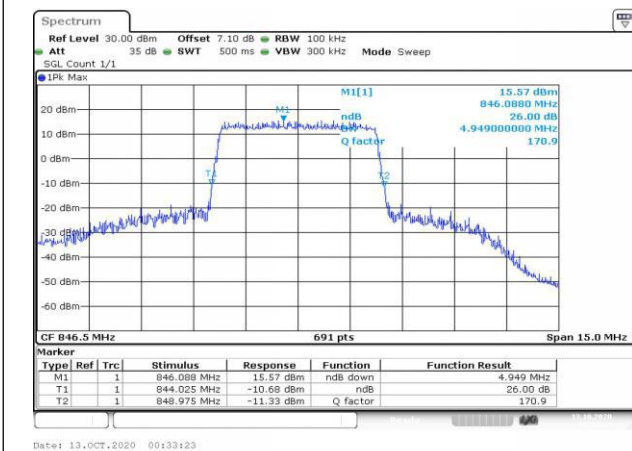


Fig.27

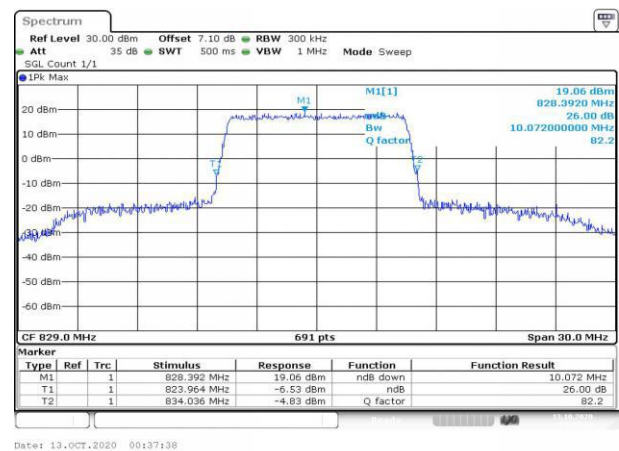


Fig.28

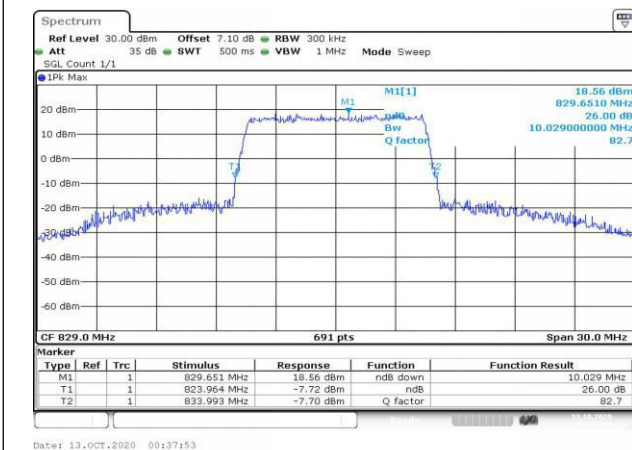


Fig.29

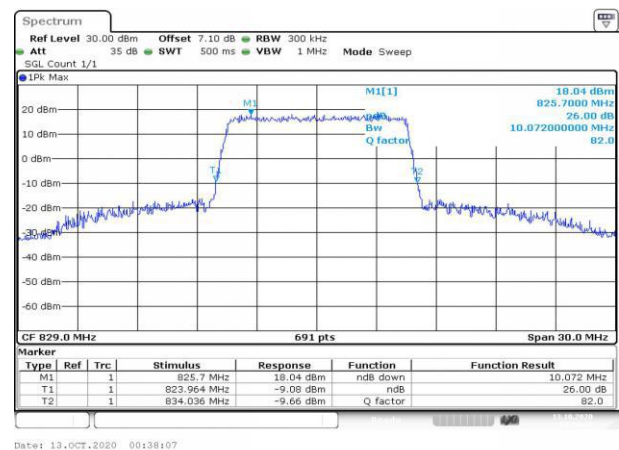


Fig.30

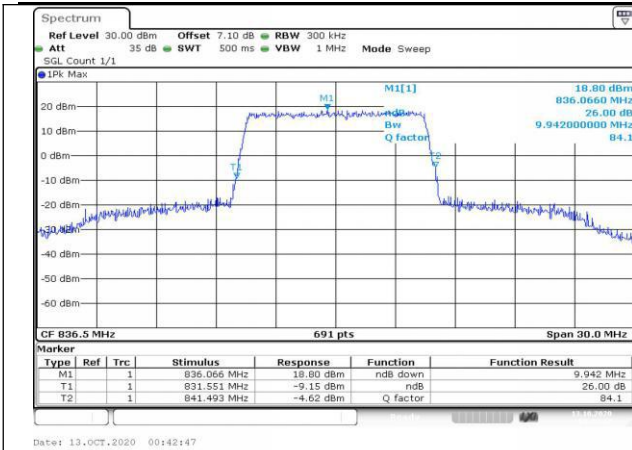


Fig.31

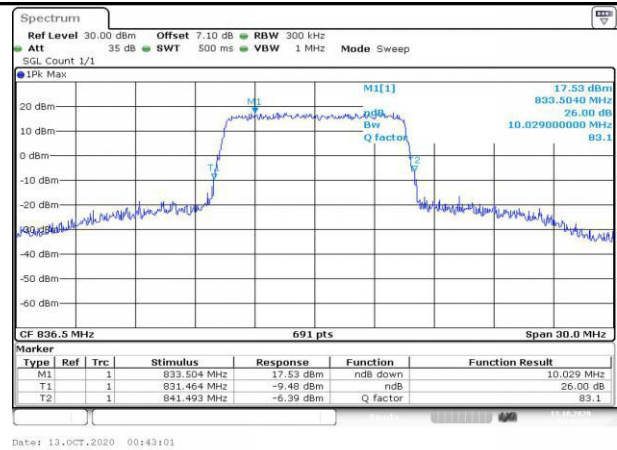


Fig.32

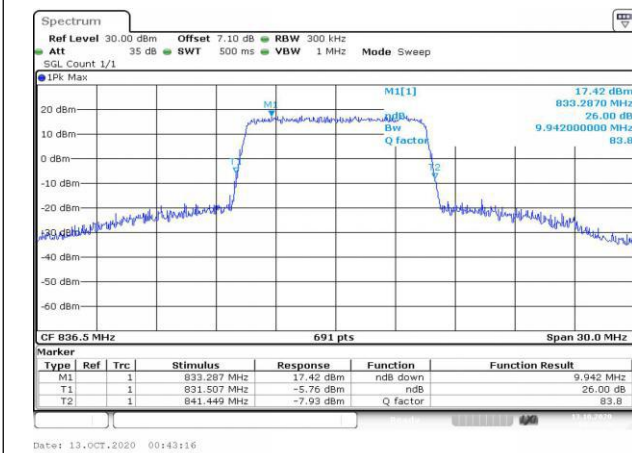


Fig.33

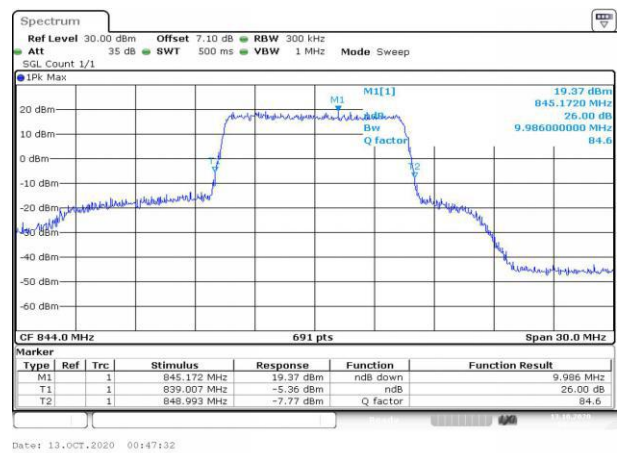


Fig.34

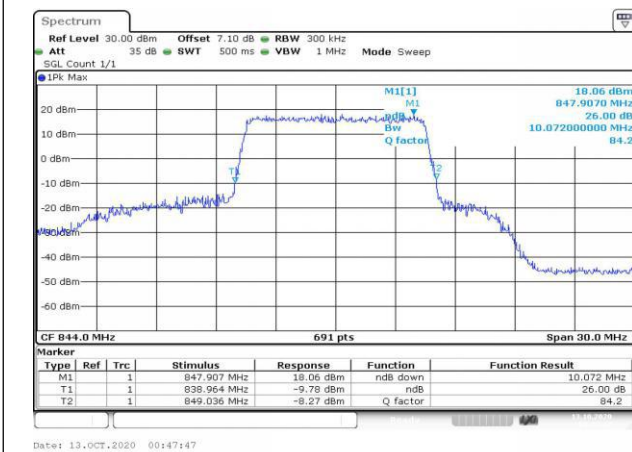


Fig.35

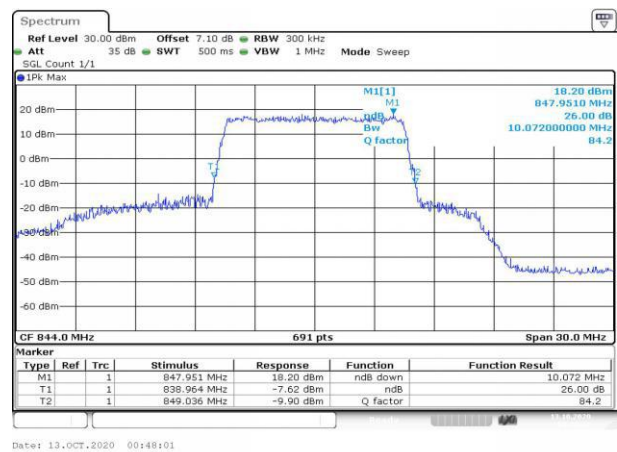


Fig.36

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

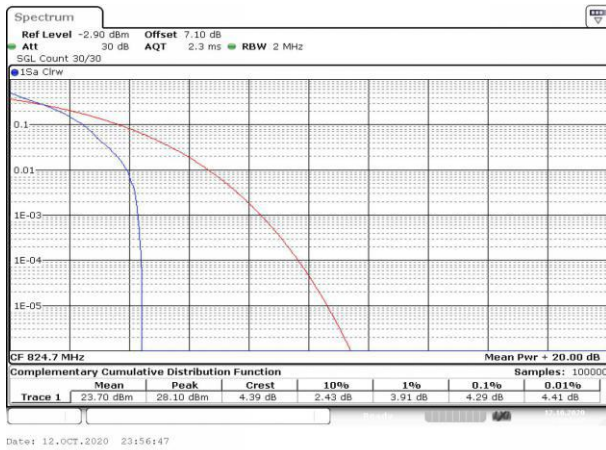


Fig.1

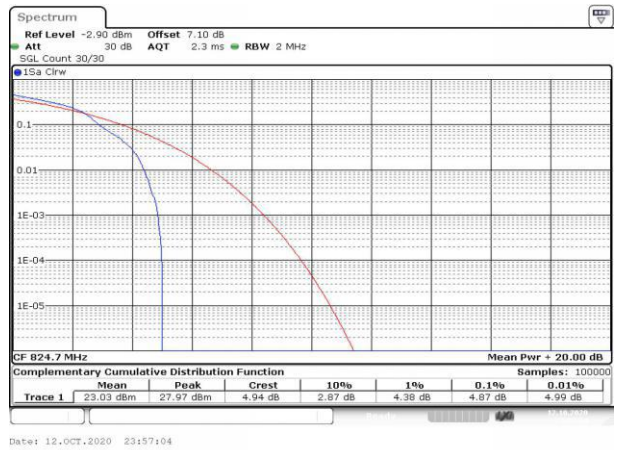


Fig.2

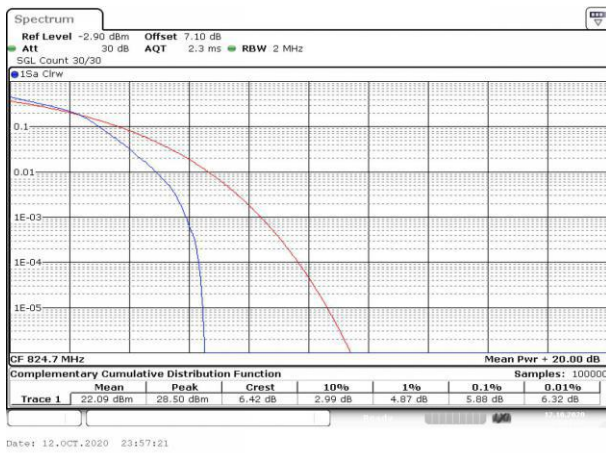


Fig.3

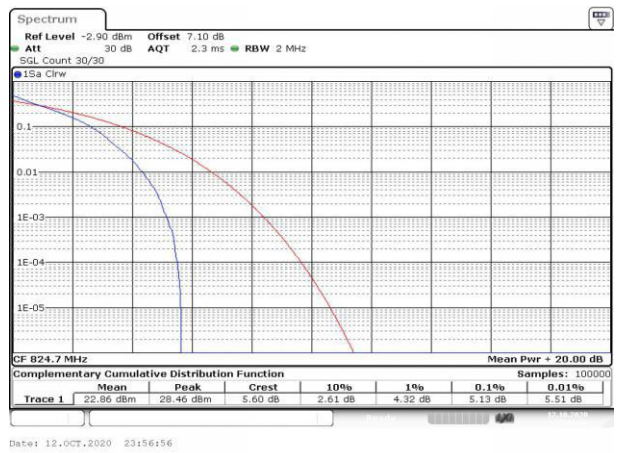


Fig.4

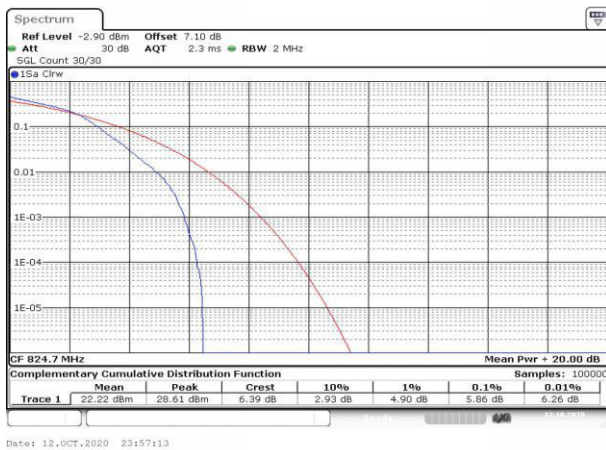


Fig.5

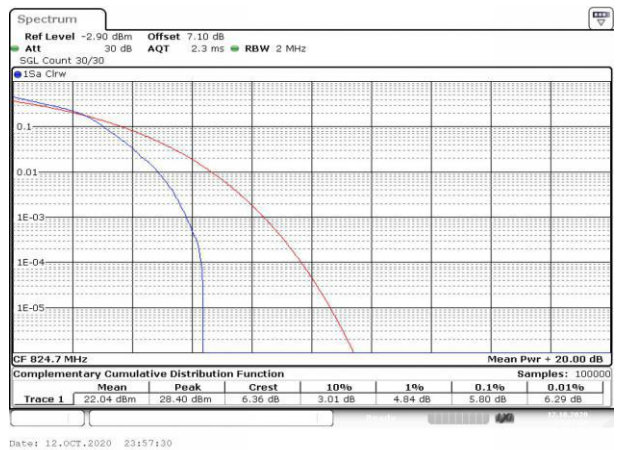


Fig.6

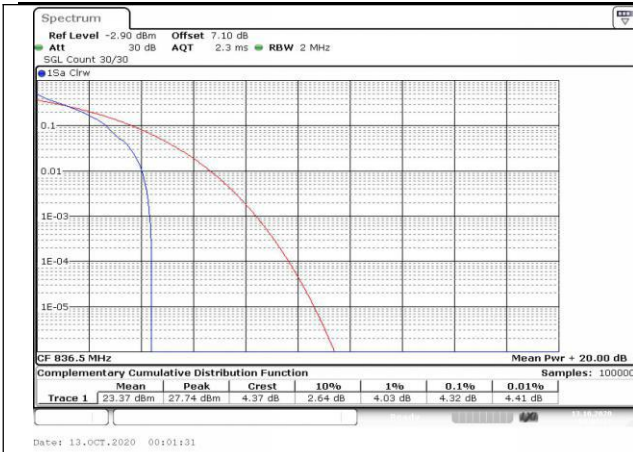


Fig.7

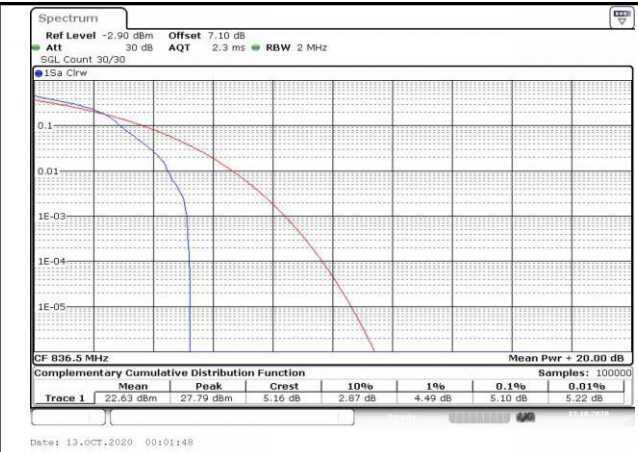


Fig.8

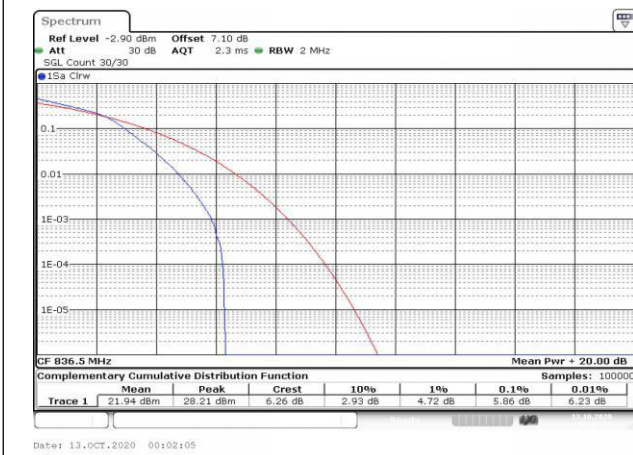


Fig.9

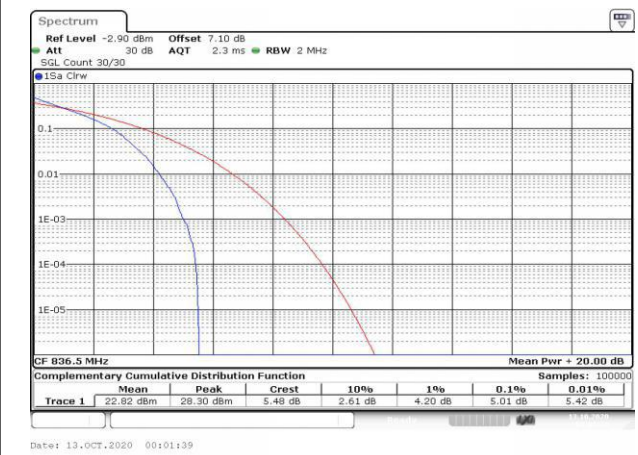


Fig.10

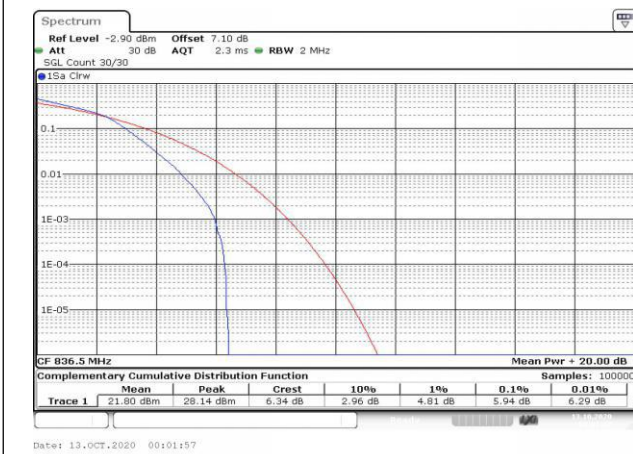


Fig.11

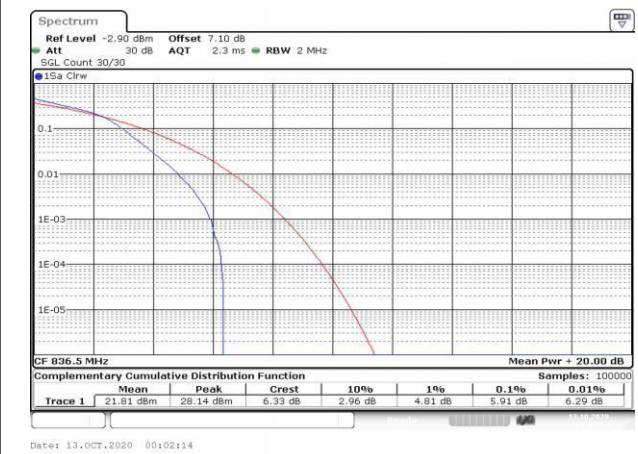


Fig.12



Fig.13

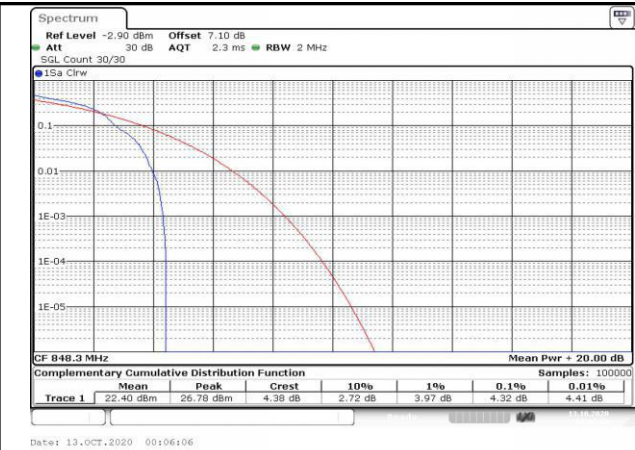


Fig.14

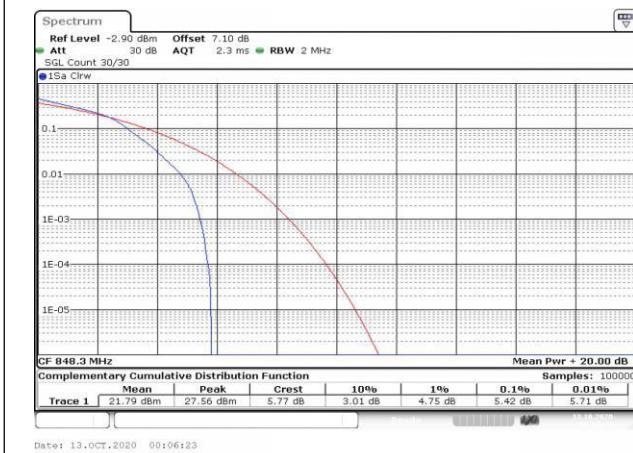


Fig.15

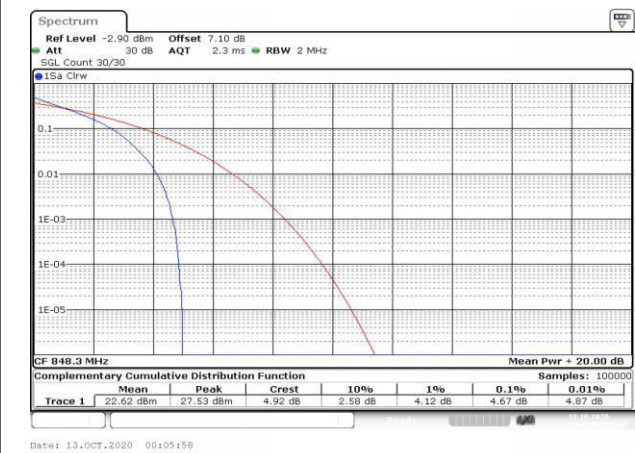


Fig.16

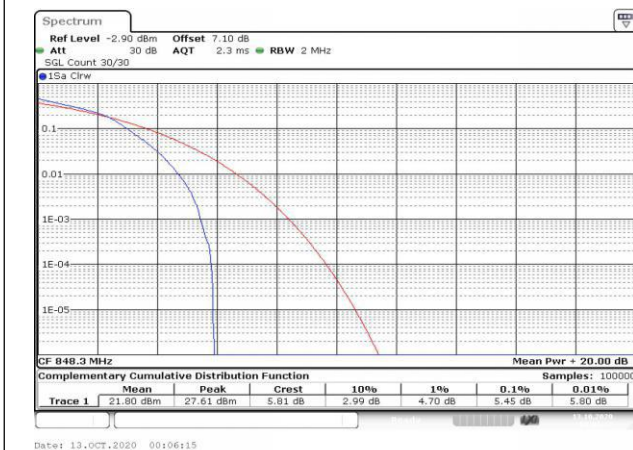


Fig.17

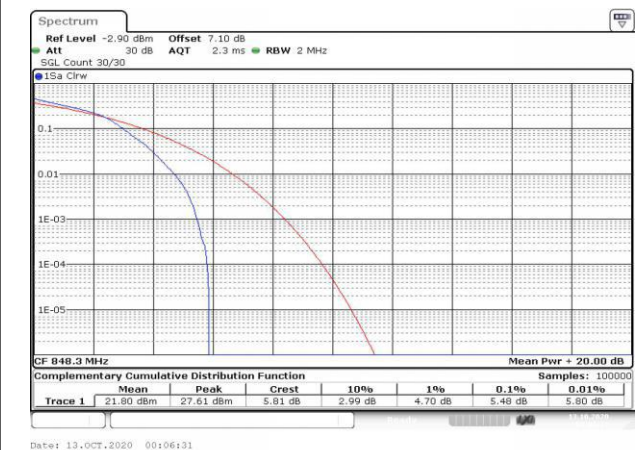


Fig.18