

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 2

RF Power Output

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1850.7	18607	1.4	1	0	23.70
				1	3	23.65
				1	5	23.62
				3	0	23.73
				3	1	23.70
				3	3	23.77
	6	0		22.80		
	1880	18900		1	0	23.51
				1	3	23.49
				1	5	23.49
				3	0	23.50
				3	1	23.48
				3	3	23.54
	1909.3	19193		6	0	22.61
				1	0	23.64
				1	3	23.59
				1	5	23.63
				3	0	23.60
3			1	23.62		
16QAM	1850.7	18607	3	3	23.66	
			6	0	22.63	
			1	0	23.00	
			1	3	22.85	
			1	5	22.87	
			3	0	22.96	
	1880	18900	3	1	22.85	
			3	3	22.85	
			6	0	21.76	
			1	0	22.74	
			1	3	22.65	
			1	5	22.65	
	1909.3	19193	3	0	22.83	
			3	1	22.81	
			3	3	22.85	
			6	0	21.61	
			1	0	22.80	
			1	3	22.87	
			1	5	22.83	
			3	0	22.63	
			3	1	22.71	
			3	3	22.65	

				6	0	21.72
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Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1850.7	18607	1.4	1	0	21.69
				1	3	21.77
				1	5	21.77
				3	0	21.73
				3	1	21.73
				3	3	21.73
				6	0	21.73
	1880	18900		1	0	21.61
				1	3	21.62
				1	5	21.62
				3	0	21.62
				3	1	21.63
				3	3	21.62
				6	0	21.63
	1909.3	19193		1	0	21.73
				1	3	21.73
				1	5	21.75
				3	0	21.74
				3	1	21.74
				3	3	21.71
				6	0	21.71

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1851.5	18615	3	1	0	23.85
				1	8	23.75
				1	14	23.74
				8	0	22.90
				8	4	22.82
				8	7	22.82
	15	0		22.91		
	1880	18900		1	0	23.70
				1	8	23.58
				1	14	23.57
				8	0	22.73
				8	4	22.65
				8	7	22.55
	15	0		22.73		
	1908.5	19185		1	0	23.71
				1	8	23.60
				1	14	23.65
				8	0	22.77
8			4	22.67		
8			7	22.68		
15	0	22.75				
16QAM	1851.5	18615	1	0	23.60	
			1	8	23.48	
			1	14	23.37	
			8	0	22.12	
			8	4	22.05	
			8	7	22.06	
	15	0	21.95			
	1880	18900	1	0	22.96	
			1	8	22.68	
			1	14	22.78	
			8	0	21.67	
			8	4	21.63	
			8	7	21.57	
	15	0	21.59			
	1908.5	19185	1	0	22.92	
			1	8	22.77	
			1	14	22.82	
			8	0	21.84	
8			4	21.70		
8			7	21.77		
15	0	21.77				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1851.5	18615	3	1	0	21.95
				1	8	21.95
				1	14	21.96
				8	0	21.95
				8	4	21.96
				8	7	21.95
				15	0	21.96
	1880	18900		1	0	21.60
				1	8	21.60
				1	14	21.60
				8	0	21.60
				8	4	21.60
				8	7	21.60
				15	0	21.61
	1908.5	19185		1	0	21.82
				1	8	21.79
				1	14	21.77
				8	0	21.78
				8	4	21.80
				8	7	21.79
				15	0	21.77

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1852.5	18625	5	1	0	23.87
				1	12	23.72
				1	24	23.78
				12	0	22.93
				12	7	22.79
				12	13	22.86
	25	0		22.89		
	1880	18900		1	0	23.69
				1	12	23.64
				1	24	23.61
				12	0	22.80
				12	7	22.66
				12	13	22.66
	25	0		22.73		
	1907.5	19175		1	0	23.65
				1	12	23.73
				1	24	23.70
				12	0	22.80
12			7	22.76		
12			13	22.76		
25	0	22.81				
16QAM	1852.5	18625	1	0	22.91	
			1	12	22.79	
			1	24	22.75	
			12	0	21.92	
			12	7	21.84	
			12	13	21.85	
	25	0	21.96			
	1880	18900	1	0	23.02	
			1	12	22.90	
			1	24	22.91	
			12	0	21.82	
			12	7	21.68	
			12	13	21.72	
	25	0	21.67			
	1907.5	19175	1	0	22.89	
			1	12	22.76	
			1	24	22.90	
			12	0	21.77	
12			7	21.70		
12			13	21.70		
25	0	21.81				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)	
64QAM	1852.5	18625	5	1	0	22.01	
				1	12	21.95	
				1	24	21.93	
				12	0	22.00	
				12	7	21.99	
				12	13	22.00	
	1880	18900		25	0	21.99	
				1	0	21.67	
				1	12	21.69	
				1	24	21.68	
				12	0	21.75	
				12	7	21.77	
	1907.5	19175		12	13	21.70	
				25	0	21.74	
				1	0	21.81	
				1	12	21.77	
				1	24	21.81	
				12	0	21.75	
					12	7	21.71
					12	13	21.86
					25	0	21.82

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1855	18650	10	1	0	23.77
				1	25	23.80
				1	49	23.70
				25	0	22.93
				25	12	22.92
				25	25	22.86
	50	0		22.89		
	1880	18900		1	0	23.72
				1	25	23.57
				1	49	23.64
				25	0	22.72
				25	12	22.67
				25	25	22.62
	1905	19150		50	0	22.66
				1	0	23.66
				1	25	23.74
				1	49	23.71
				25	0	22.74
25			12	22.69		
16QAM	1855	18650	25	25	22.71	
			50	0	22.79	
			1	0	23.47	
			1	25	23.43	
			1	49	23.32	
			25	0	22.04	
	1880	18900	25	12	21.96	
			25	25	22.06	
			50	0	21.89	
			1	0	22.87	
			1	25	22.70	
			1	49	22.77	
	1905	19150	25	0	21.79	
			25	12	21.62	
			25	25	21.63	
			50	0	21.63	
			1	0	22.83	
			1	25	22.90	
			1	49	22.89	
			25	0	21.90	
			25	12	21.91	
			25	25	21.92	
			50	0	21.84	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1855	18650	10	1	0	21.98
				1	25	21.93
				1	49	21.96
				25	0	21.89
				25	12	21.88
				25	25	21.96
				50	0	21.93
	1880	18900		1	0	21.63
				1	25	21.63
				1	49	21.64
				25	0	21.65
				25	12	21.71
				25	25	21.65
				50	0	21.71
	1905	19150		1	0	21.89
				1	25	21.87
				1	49	21.81
				25	0	21.75
				25	12	21.86
				25	25	21.85
				50	0	21.79

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1857.5	18675	15	1	0	23.78
				1	37	23.73
				1	74	23.66
				36	0	22.84
				36	29	22.74
				36	30	22.72
				75	0	22.73
	1880	18900		1	0	23.49
				1	37	23.57
				1	74	23.56
				36	0	22.67
				36	29	22.51
				36	30	22.58
				75	0	22.57
	1902.5	19125		1	0	23.50
				1	37	23.70
				1	74	23.72
				36	0	22.58
				36	29	22.74
				36	30	22.70
				75	0	22.68
16QAM	1857.5	18675	1	0	23.42	
			1	37	23.39	
			1	74	23.33	
			36	0	21.82	
			36	29	21.77	
			36	30	21.75	
			75	0	21.72	
	1880	18900	1	0	22.71	
			1	37	22.71	
			1	74	22.81	
			36	0	21.66	
			36	29	21.54	
			36	30	21.56	
			75	0	21.57	
	1902.5	19125	1	0	23.29	
			1	37	23.27	
			1	74	23.14	
			36	0	21.65	
			36	29	21.69	
			36	30	21.66	
			75	0	21.57	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1857.5	18675	15	1	0	21.79
				1	37	21.79
				1	74	21.78
				36	0	21.74
				36	29	21.73
				36	30	21.78
				75	0	21.72
	1880	18900		1	0	21.58
				1	37	21.49
				1	74	21.59
				36	0	21.56
				36	29	21.66
				36	30	21.56
				75	0	21.50
	1902.5	19125		1	0	21.67
				1	37	21.64
				1	74	21.63
				36	0	21.59
				36	29	21.60
				36	30	21.62
				75	0	21.66

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1860	18700	20	1	0	23.74
				1	49	23.59
				1	99	23.64
				50	0	22.85
				50	24	22.73
				50	50	22.69
				100	0	22.83
	1880	18900		1	0	23.78
				1	49	23.67
				1	99	23.73
				50	0	22.68
				50	24	22.56
				50	50	22.56
				100	0	22.56
	1900	19100		1	0	23.55
				1	49	23.61
				1	99	23.67
				50	0	22.66
				50	24	22.78
				50	50	22.76
				100	0	22.76
16QAM	1860	18700	1	0	23.07	
			1	49	23.07	
			1	99	23.01	
			50	0	21.80	
			50	24	21.72	
			50	50	21.73	
			100	0	21.78	
	1880	18900	1	0	22.92	
			1	49	22.87	
			1	99	22.80	
			50	0	21.63	
			50	24	21.55	
			50	50	21.47	
			100	0	21.56	
	1900	19100	1	0	23.25	
			1	49	23.22	
			1	99	23.36	
			50	0	21.65	
			50	24	21.74	
			50	50	21.73	
			100	0	21.64	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1860	18700	20	1	0	21.73
				1	49	21.74
				1	99	21.74
				50	0	21.73
				50	24	21.74
				50	50	21.69
				100	0	21.71
	1880	18900		1	0	21.58
				1	49	21.59
				1	99	21.59
				50	0	21.59
				50	24	21.58
				50	50	21.57
				100	0	21.56
	1900	19100		1	0	21.74
				1	49	21.81
				1	99	21.81
				50	0	21.74
				50	24	21.77
				50	50	21.74
				100	0	21.70

Occupied Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of 99% Power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1850.7	18607	1.4	6	0	1.082	Fig.1	1.082	Fig.2	1.082	Fig.3
	1880	18900		6	0	1.088	Fig.4	1.082	Fig.5	1.076	Fig.6
	1909.3	19193		6	0	1.082	Fig.7	1.082	Fig.8	1.082	Fig.9
	1851.5	18615	3	15	0	2.696	Fig.10	2.683	Fig.11	2.683	Fig.12
	1880	18900		15	0	2.683	Fig.13	2.683	Fig.14	2.683	Fig.15
	1908.5	19185		15	0	2.683	Fig.16	2.683	Fig.17	2.683	Fig.18
	1852.5	18625	5	25	0	4.472	Fig.19	4.472	Fig.20	4.472	Fig.21
	1880	18900		25	0	4.472	Fig.22	4.472	Fig.23	4.493	Fig.24
	1907.5	19175		25	0	4.472	Fig.25	4.472	Fig.26	4.472	Fig.27
	1855	18650	10	50	0	8.944	Fig.28	8.944	Fig.29	8.944	Fig.30
	1880	18900		50	0	8.944	Fig.31	8.944	Fig.32	8.900	Fig.33
	1905	19150		50	0	8.857	Fig.34	8.900	Fig.35	8.900	Fig.36
	1857.5	18675	15	75	0	13.415	Fig.37	13.480	Fig.38	13.415	Fig.39
	1880	18900		75	0	13.350	Fig.40	13.415	Fig.41	13.415	Fig.42
	1902.5	19125		75	0	13.415	Fig.43	13.415	Fig.44	13.415	Fig.45
	1860	18700	20	100	0	17.887	Fig.46	17.887	Fig.47	17.887	Fig.48
	1880	18900		100	0	17.887	Fig.49	17.887	Fig.50	17.800	Fig.51
	1900	19100		100	0	17.800	Fig.52	17.887	Fig.53	17.800	Fig.54

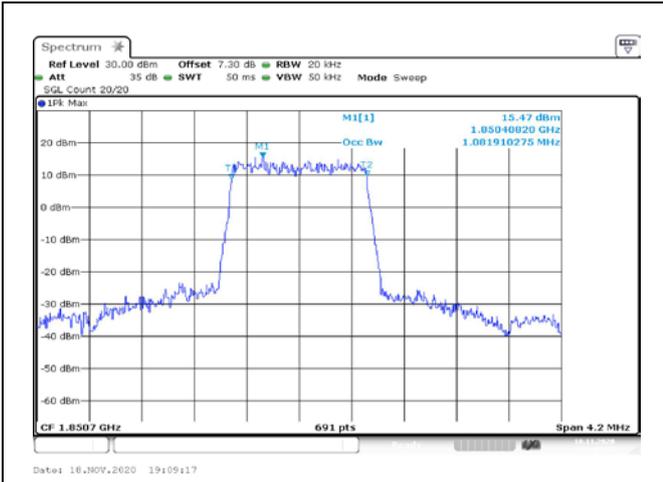


Fig.1

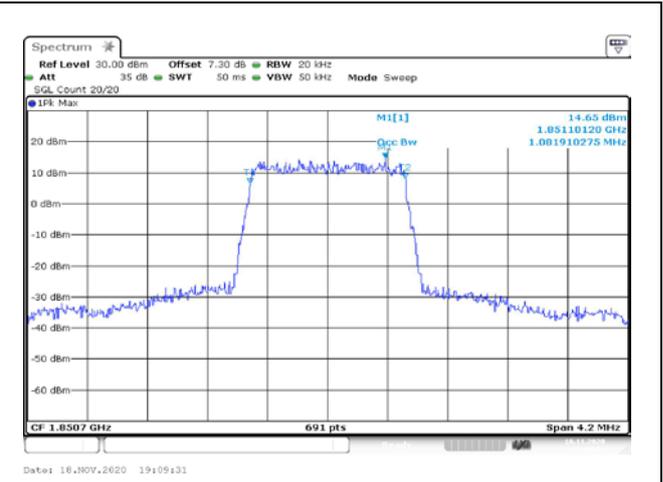


Fig.2

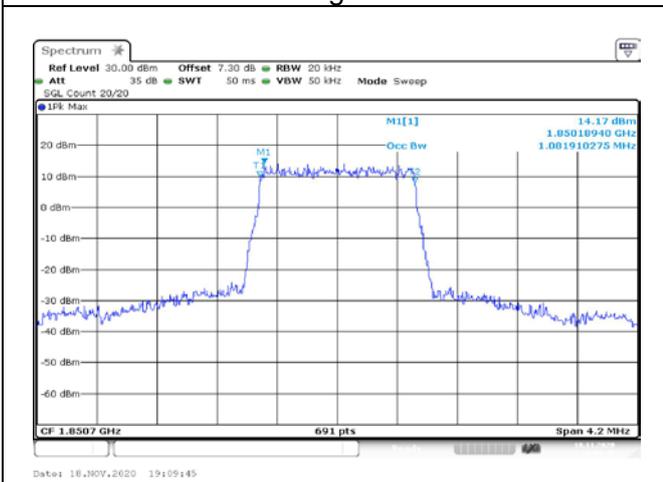


Fig.3

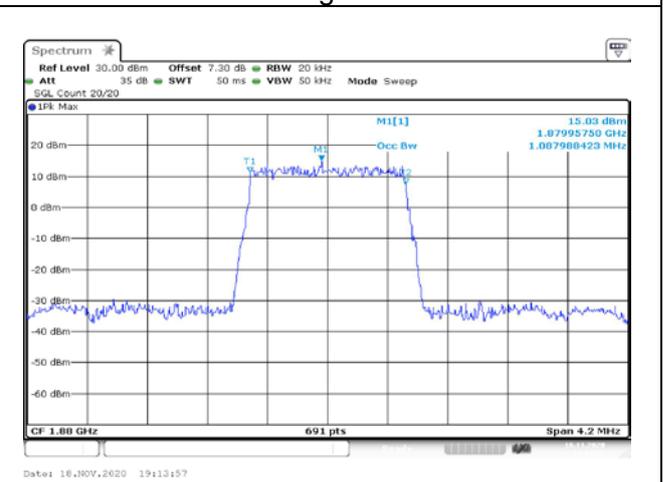


Fig.4

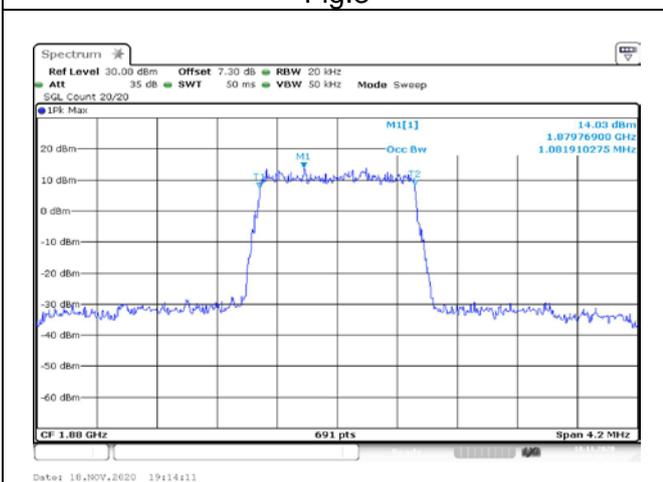


Fig.5

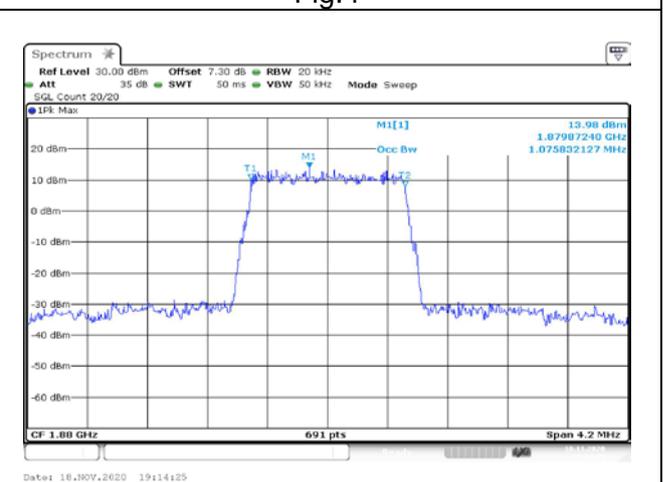


Fig.6

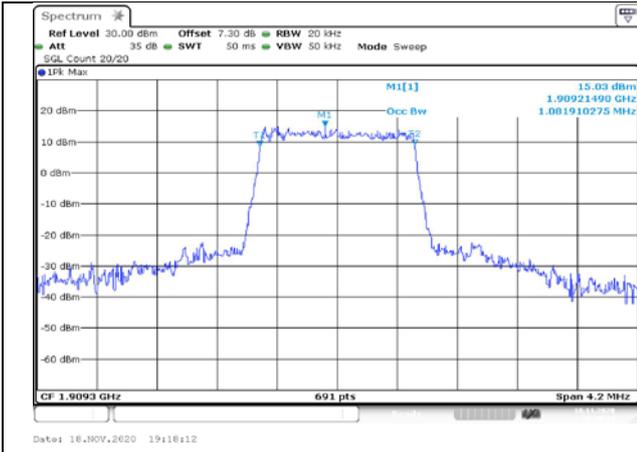


Fig.7

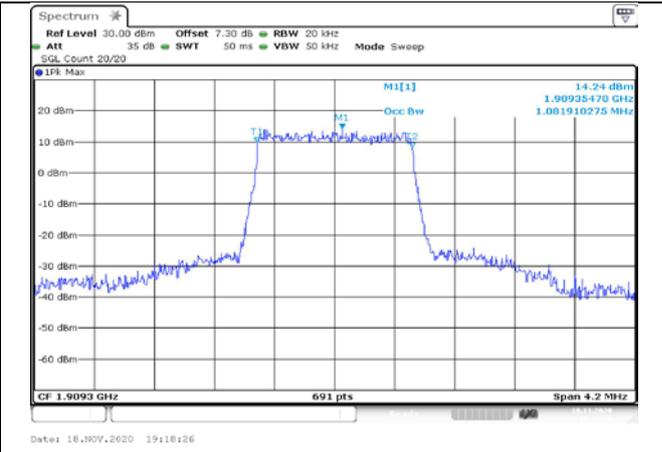


Fig.8

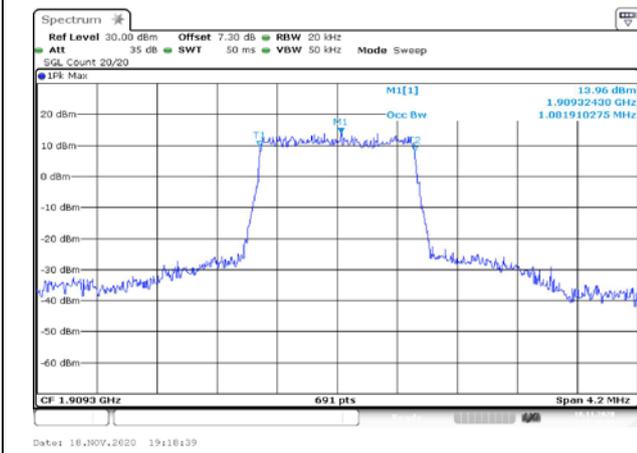


Fig.9

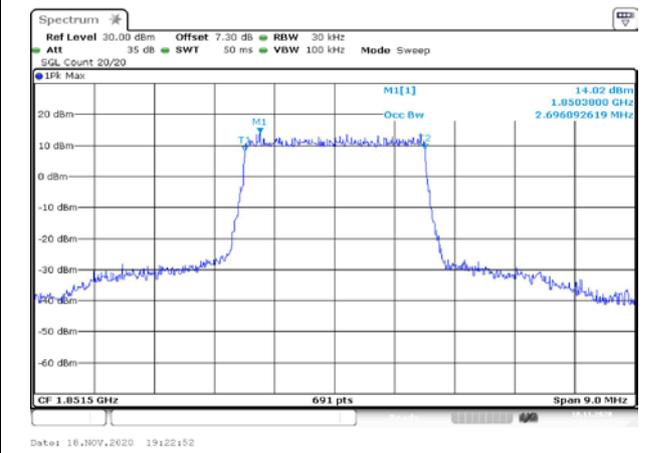


Fig.10

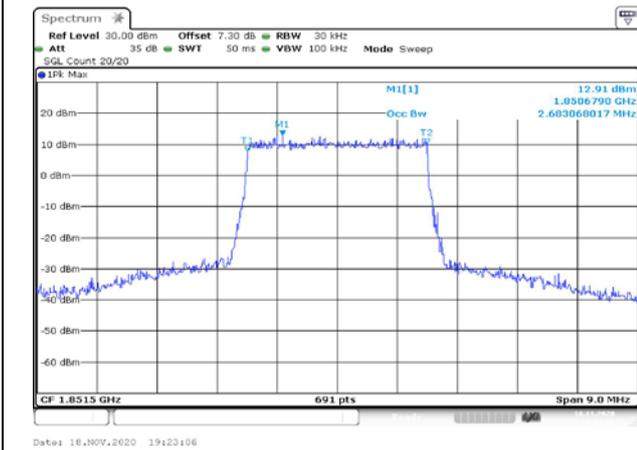


Fig.11

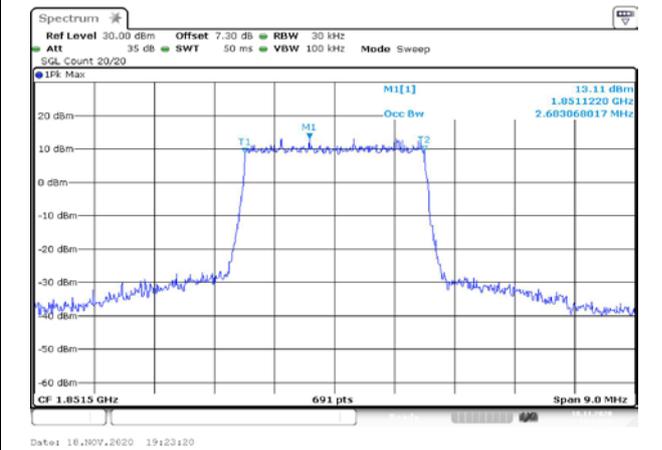


Fig.12

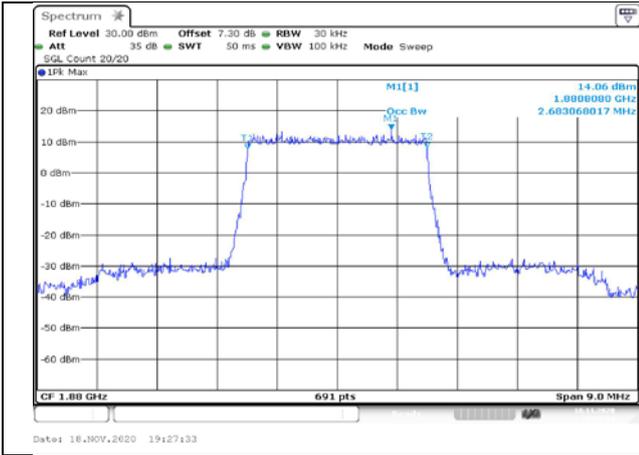


Fig.13

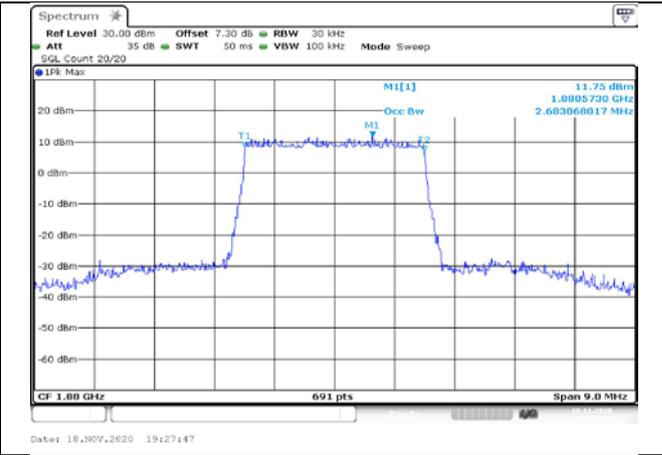


Fig.14

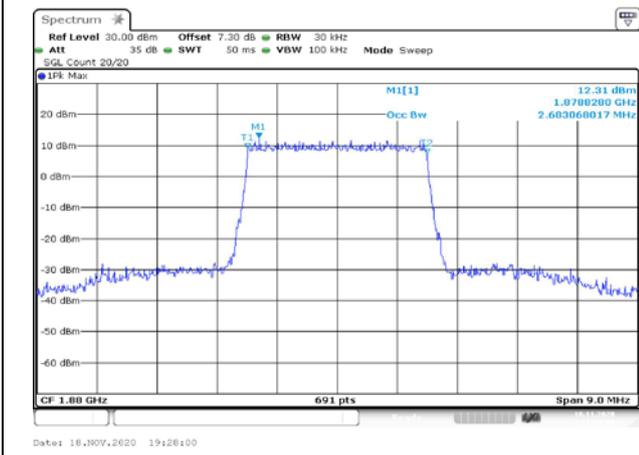


Fig.15

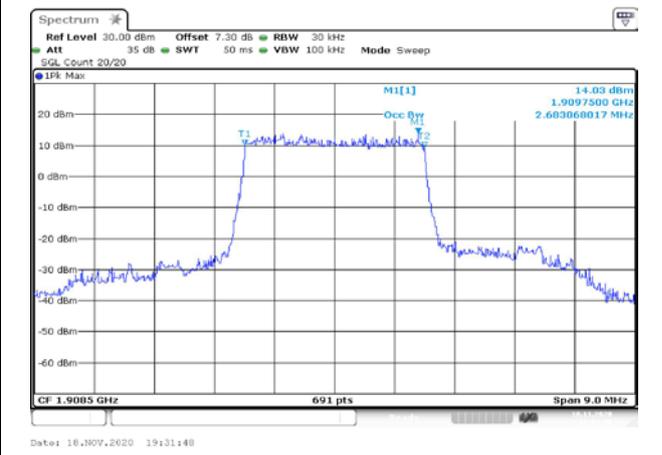


Fig.16

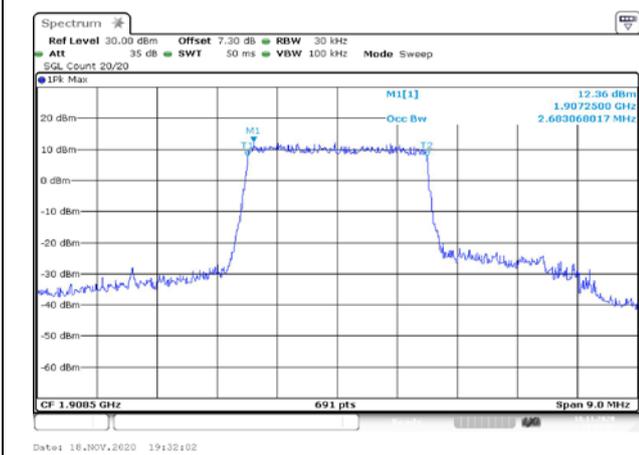


Fig.17

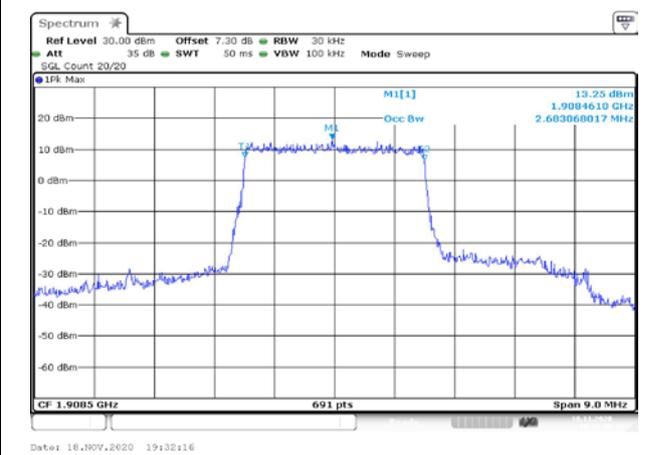


Fig.18

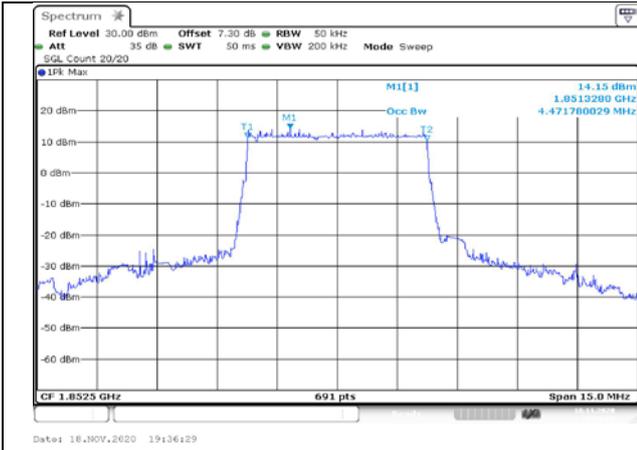


Fig.19

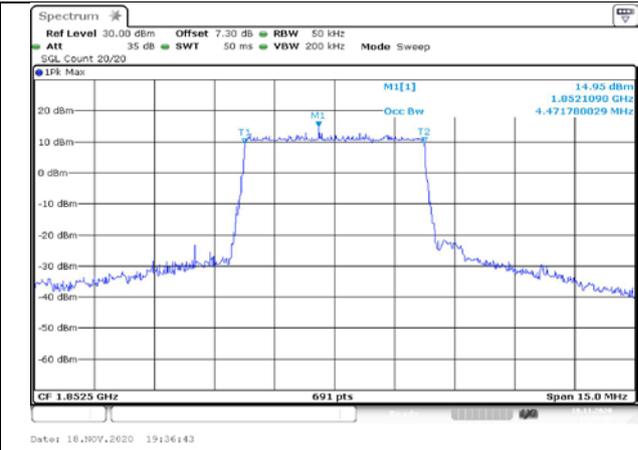


Fig.20

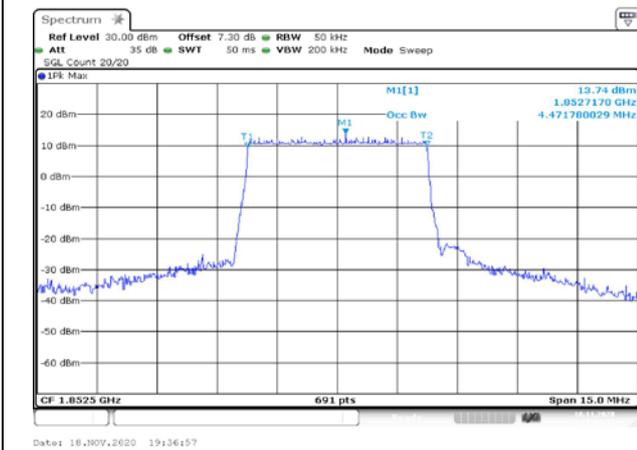


Fig.21

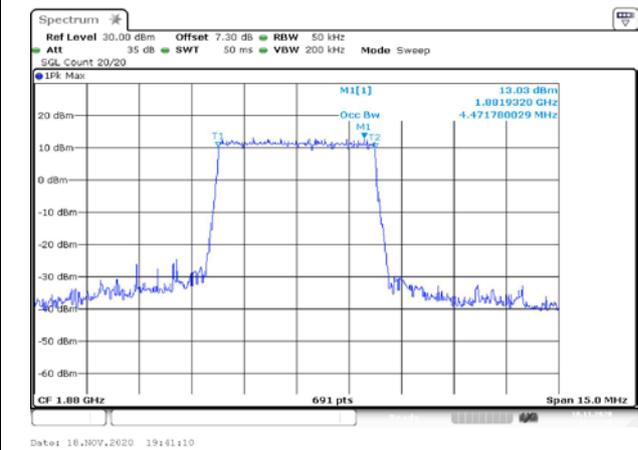


Fig.22

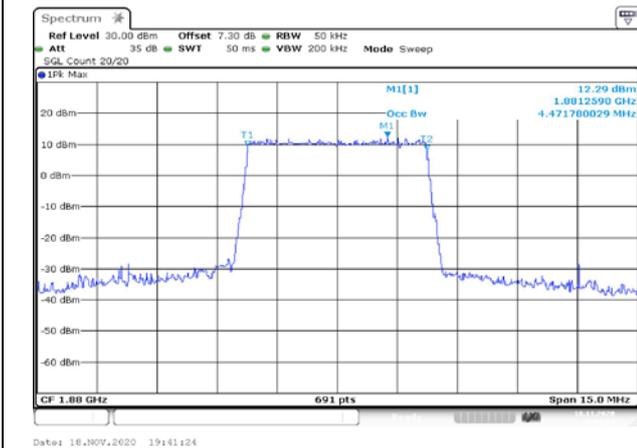


Fig.23

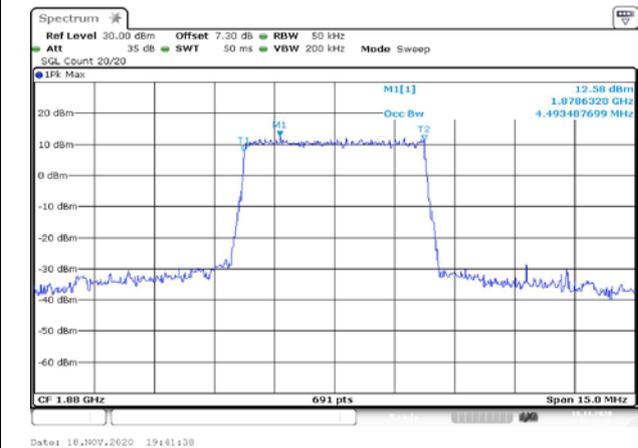


Fig.24

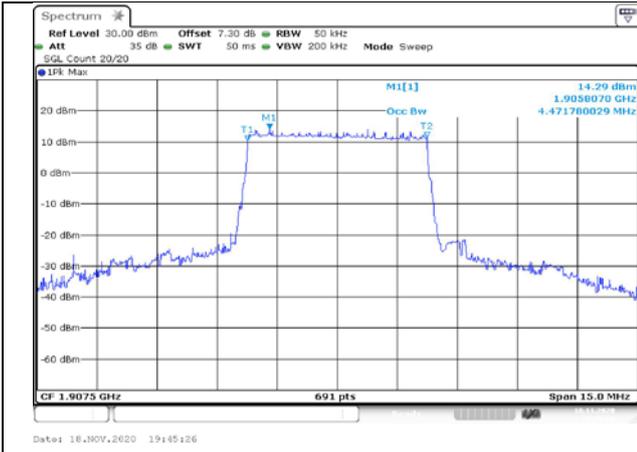


Fig.25

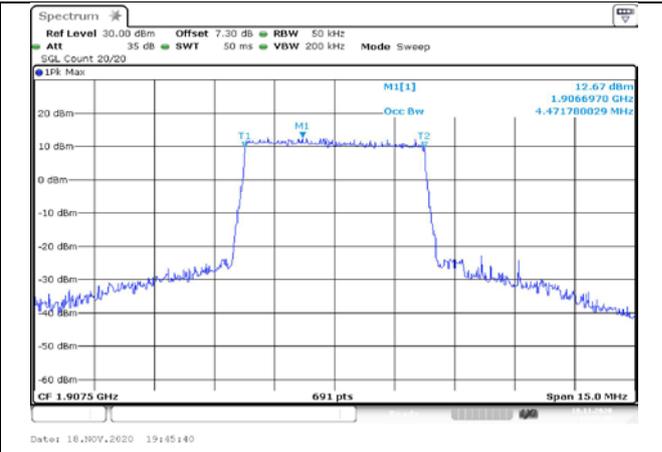


Fig.26

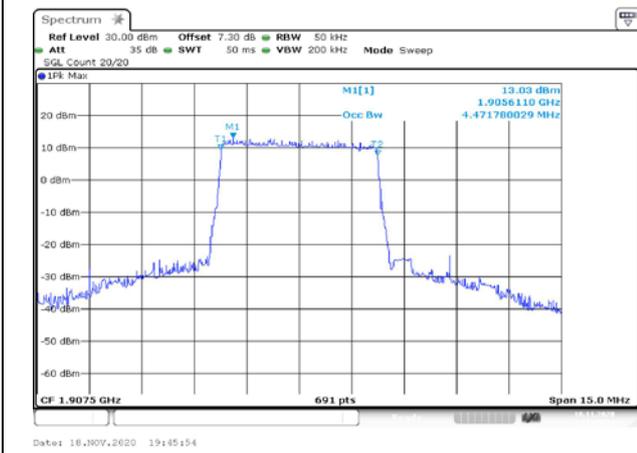


Fig.27

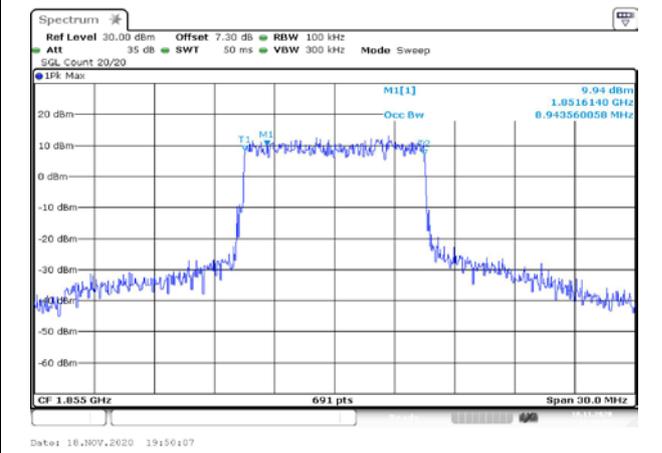


Fig.28

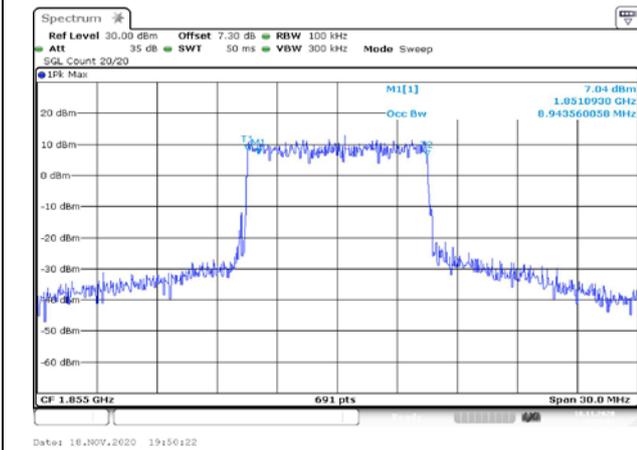


Fig.29

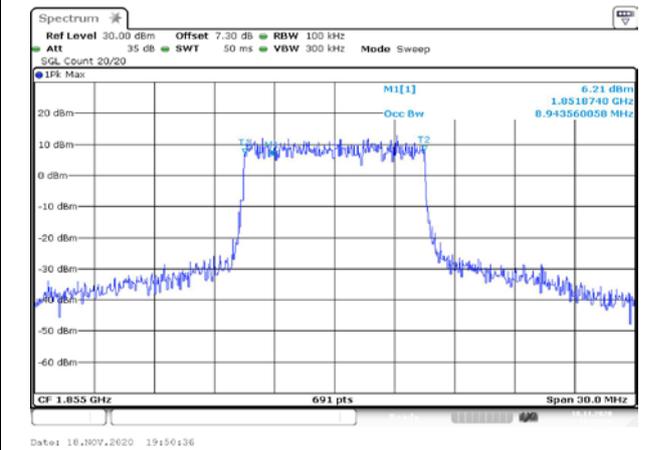
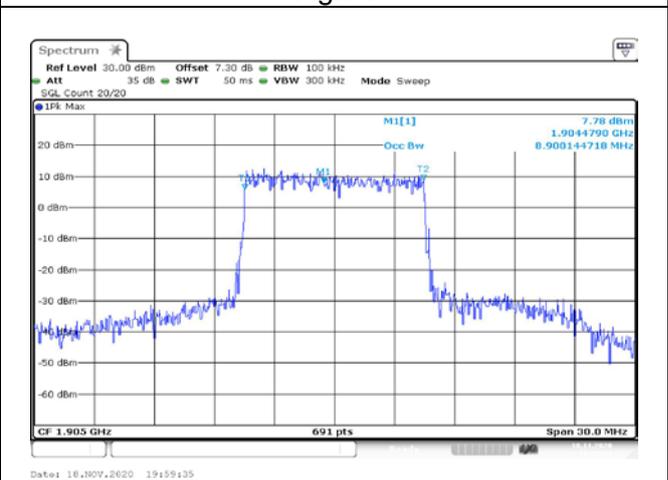
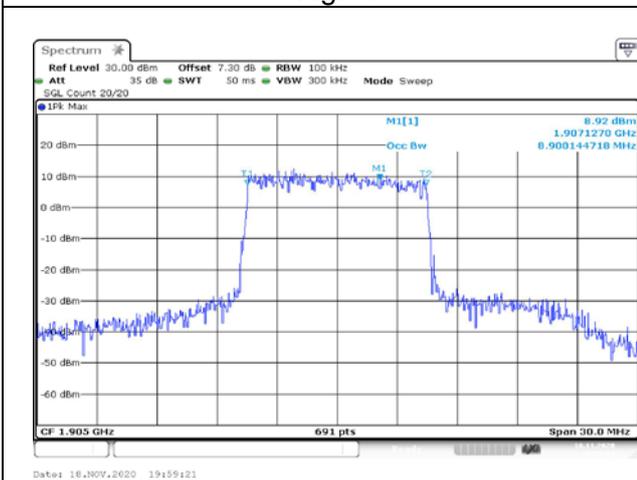
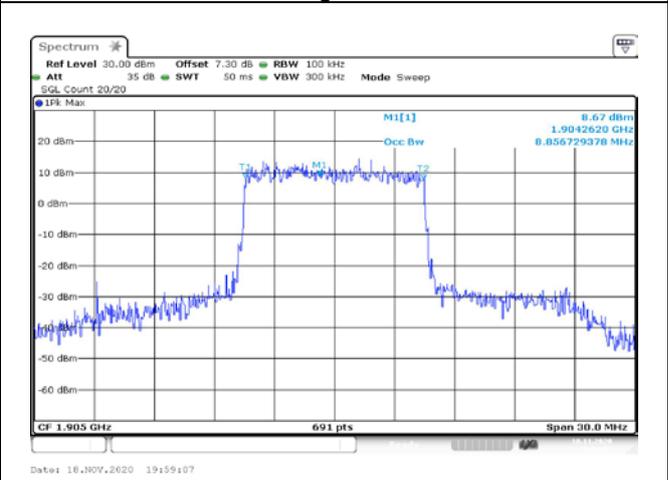
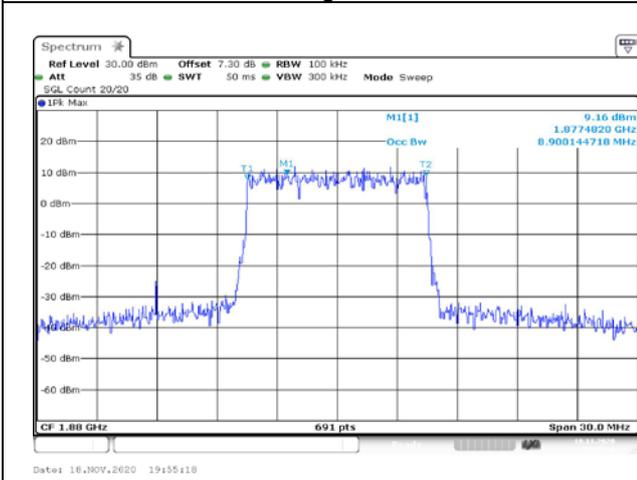
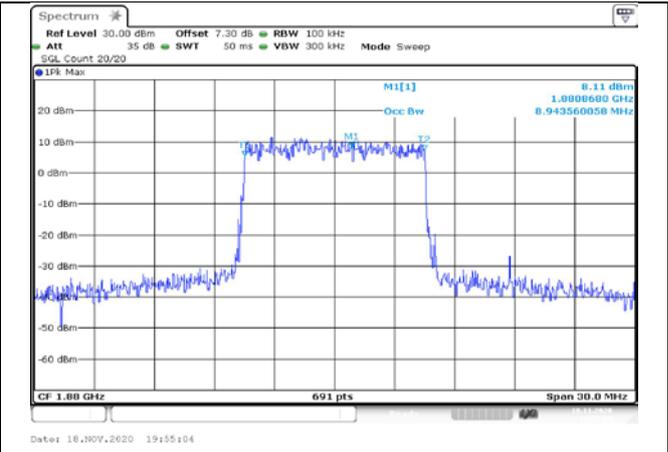
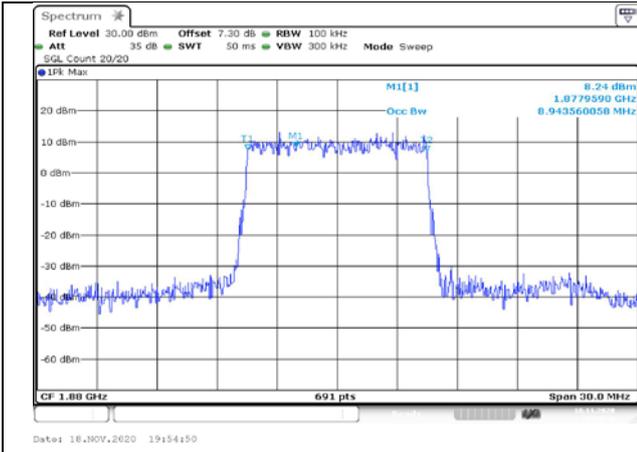


Fig.30



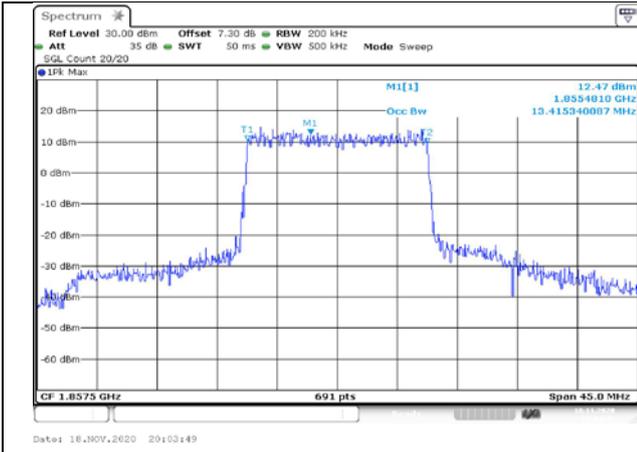


Fig.37

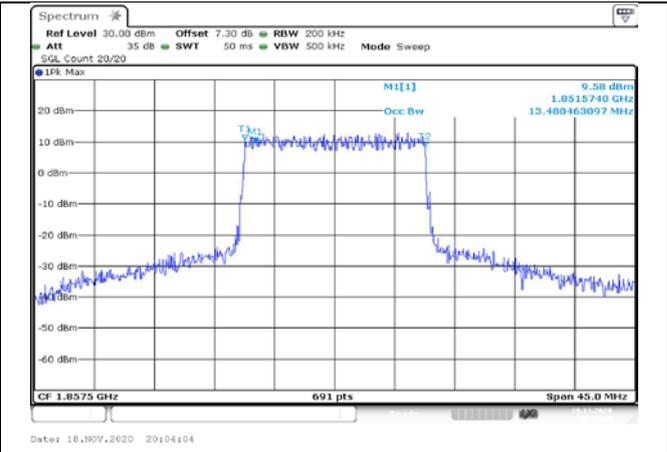


Fig.38

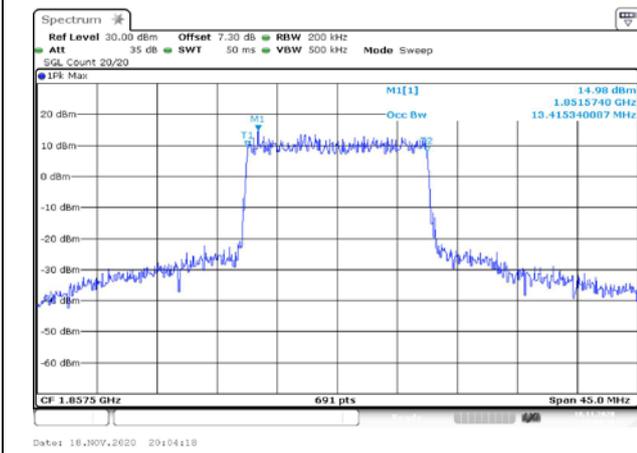


Fig.39

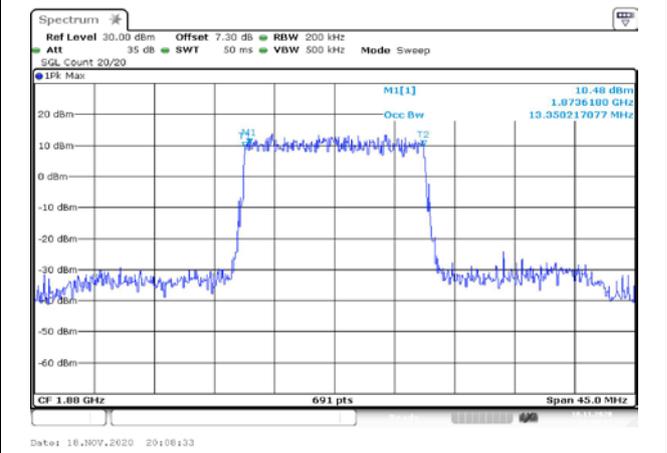


Fig.40

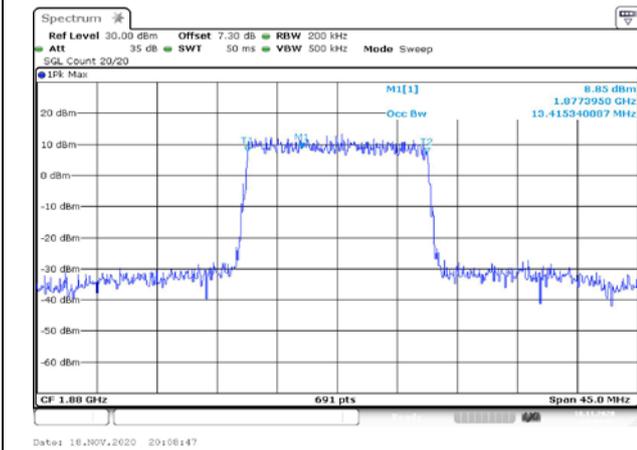


Fig.41

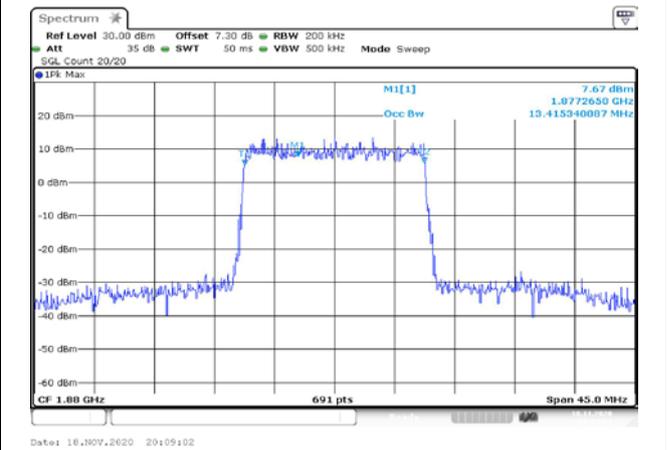


Fig.42

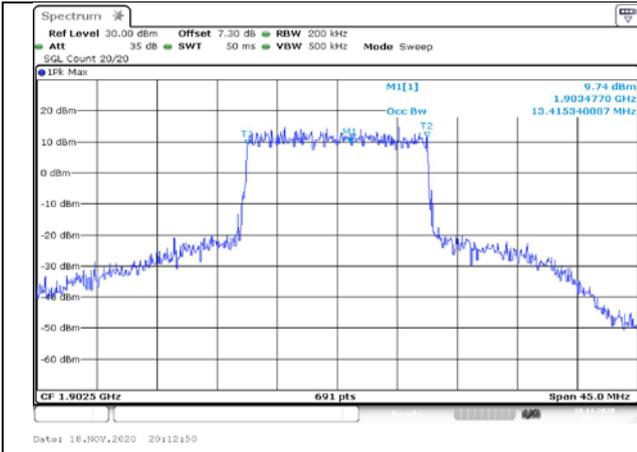


Fig.43

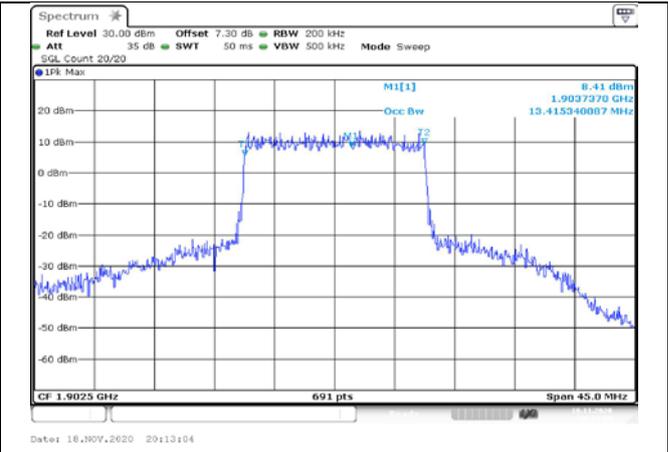


Fig.44

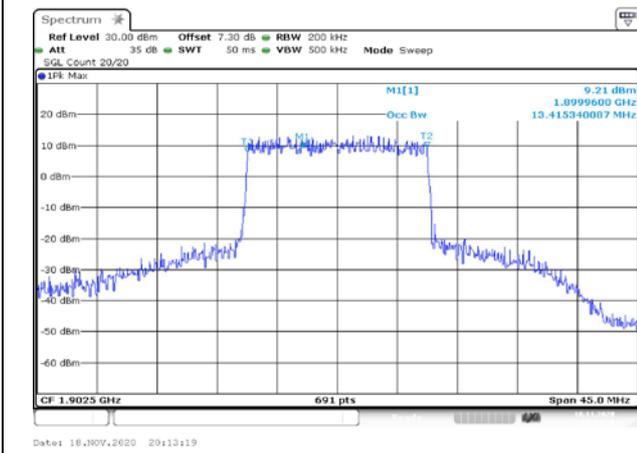


Fig.45

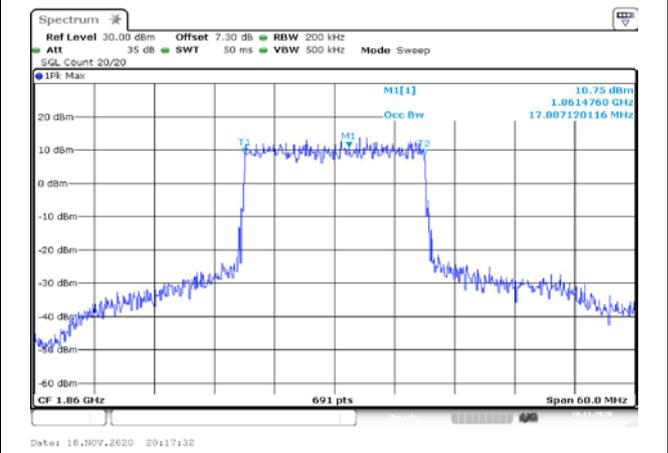


Fig.46

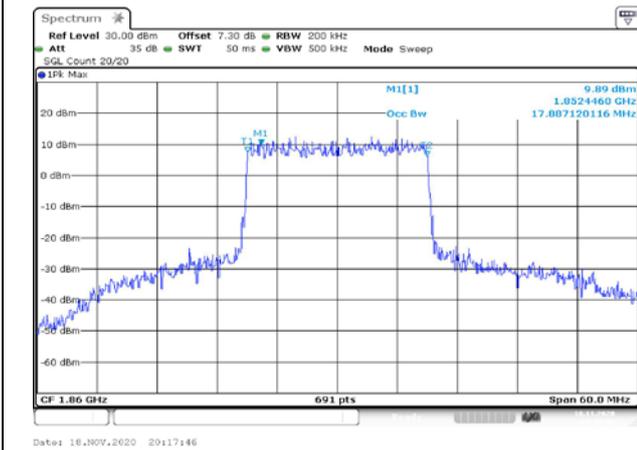


Fig.47

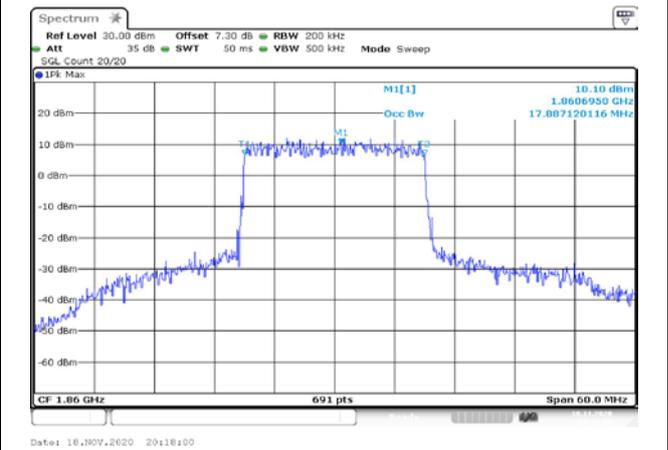


Fig.48

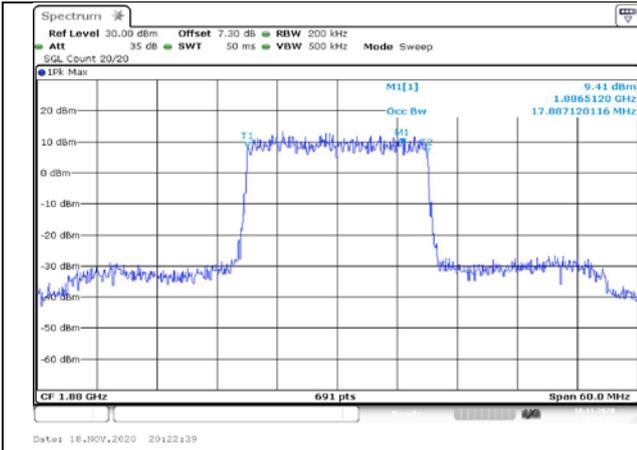


Fig.49

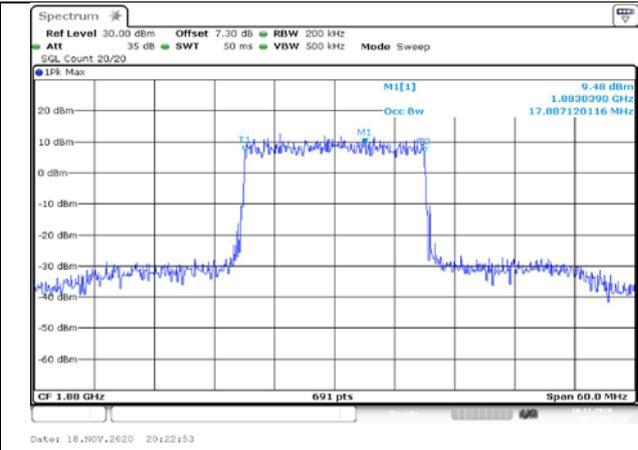


Fig.50

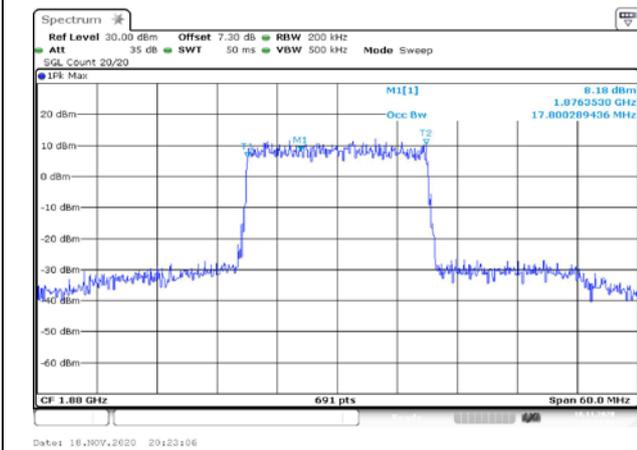


Fig.51

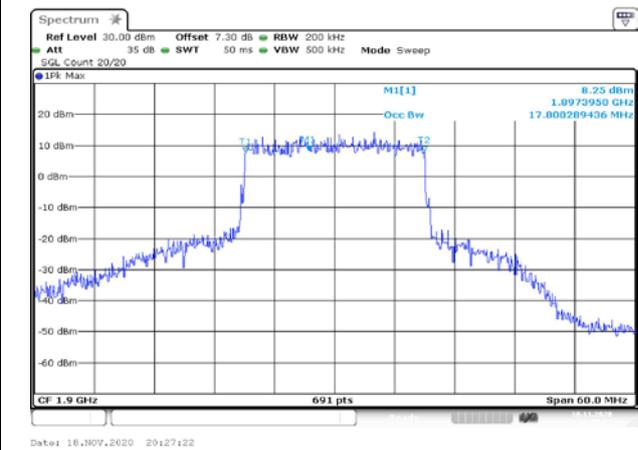


Fig.52

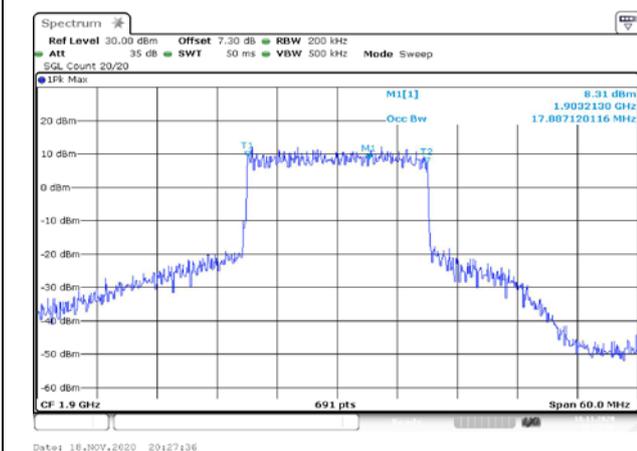


Fig.53

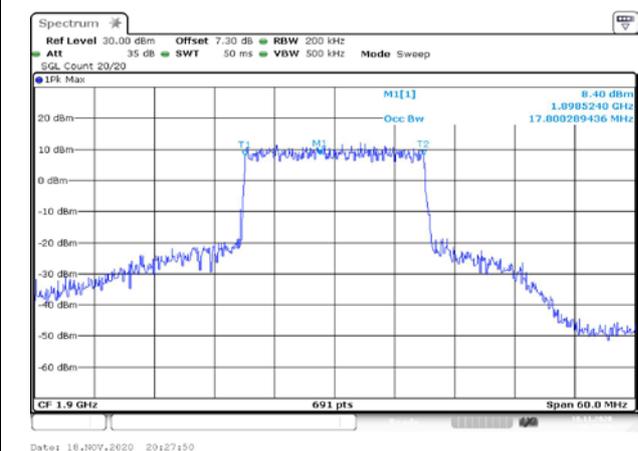


Fig.54

Emission Bandwidth

Band	Carrier frequency (MHz)	Channel	BW (MHz)	RB Size	RB Offset	Bandwidth of -26dB transmitter power (MHz)					
						QPSK		16-QAM		64-QAM	
2	1850.7	18607	1.4	6	0	1.216	Fig.1	1.216	Fig.2	1.210	Fig.3
	1880	18900		6	0	1.222	Fig.4	1.222	Fig.5	1.216	Fig.6
	1909.3	19193		6	0	1.222	Fig.7	1.210	Fig.8	1.216	Fig.9
	1851.5	18615	3	15	0	2.891	Fig.10	2.891	Fig.11	2.865	Fig.12
	1880	18900		15	0	2.918	Fig.13	2.918	Fig.14	2.891	Fig.15
	1908.5	19185		15	0	2.931	Fig.16	2.931	Fig.17	2.931	Fig.18
	1852.5	18625	5	25	0	4.841	Fig.19	4.841	Fig.20	4.884	Fig.21
	1880	18900		25	0	4.841	Fig.22	4.819	Fig.23	4.863	Fig.24
	1907.5	19175		25	0	4.863	Fig.25	4.884	Fig.26	4.884	Fig.27
	1855	18650	10	50	0	9.682	Fig.28	9.682	Fig.29	9.638	Fig.30
	1880	18900		50	0	9.595	Fig.31	9.551	Fig.32	9.595	Fig.33
	1905	19150		50	0	9.551	Fig.34	9.638	Fig.35	9.595	Fig.36
	1857.5	18675	15	75	0	14.522	Fig.37	14.457	Fig.38	14.522	Fig.39
	1880	18900		75	0	14.392	Fig.40	14.522	Fig.41	14.457	Fig.42
	1902.5	19125		75	0	14.457	Fig.43	14.457	Fig.44	14.392	Fig.45
	1860	18700	20	100	0	19.016	Fig.46	19.190	Fig.47	19.103	Fig.48
	1880	18900		100	0	19.016	Fig.49	19.103	Fig.50	19.103	Fig.51
	1900	19100		100	0	19.190	Fig.52	19.190	Fig.53	19.190	Fig.54

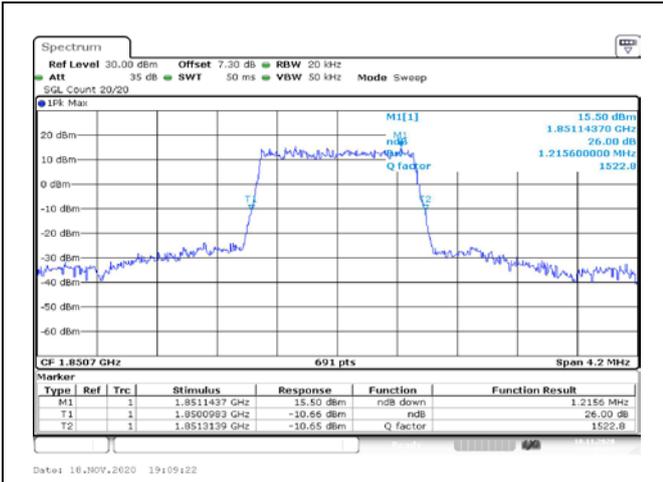


Fig.1

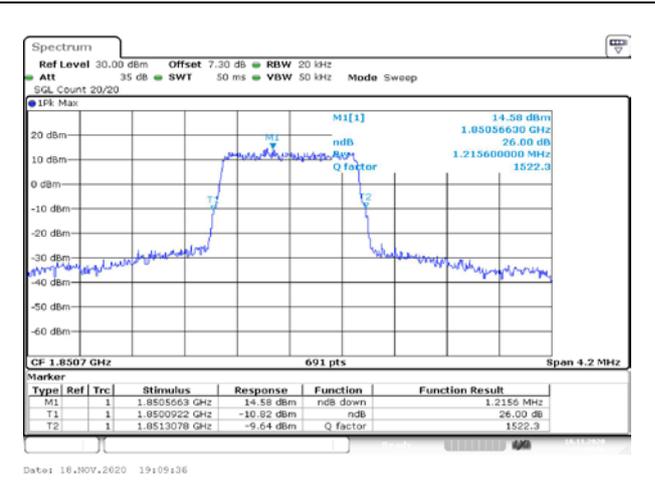


Fig.2

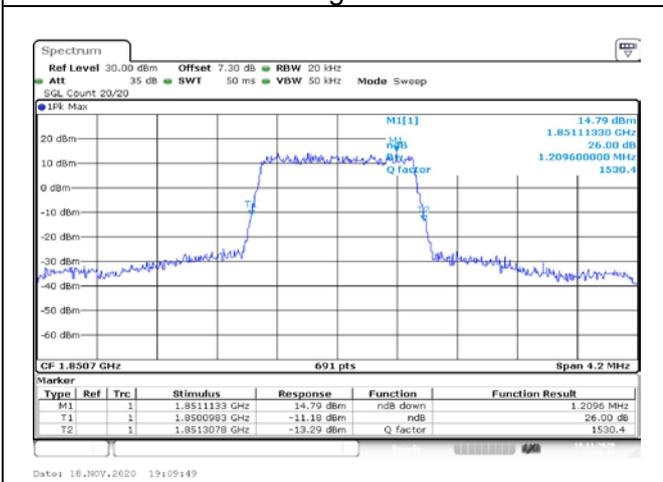


Fig.3

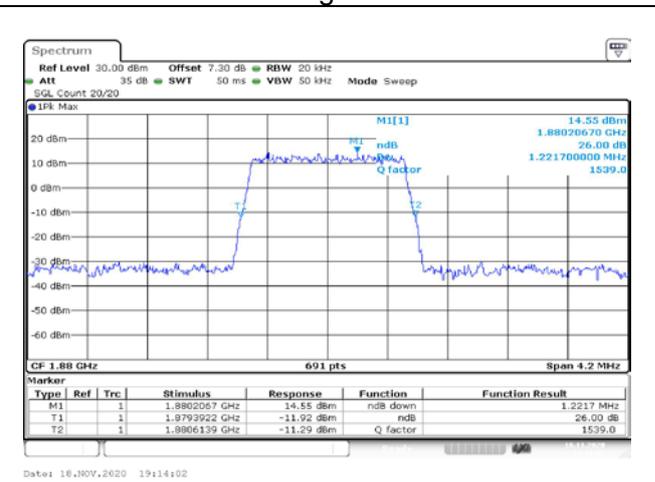


Fig.4

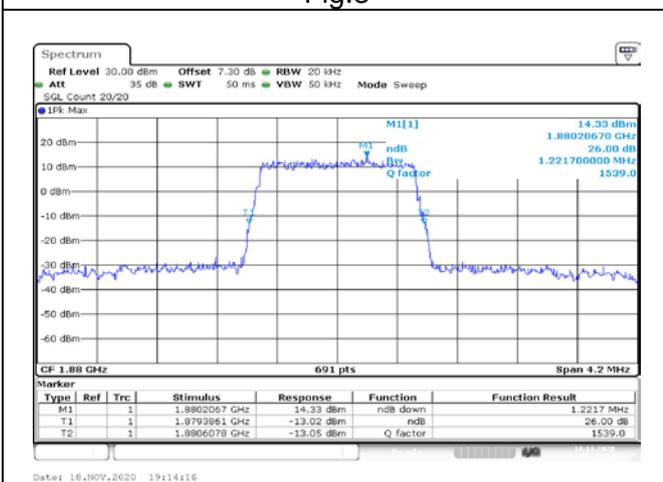


Fig.5

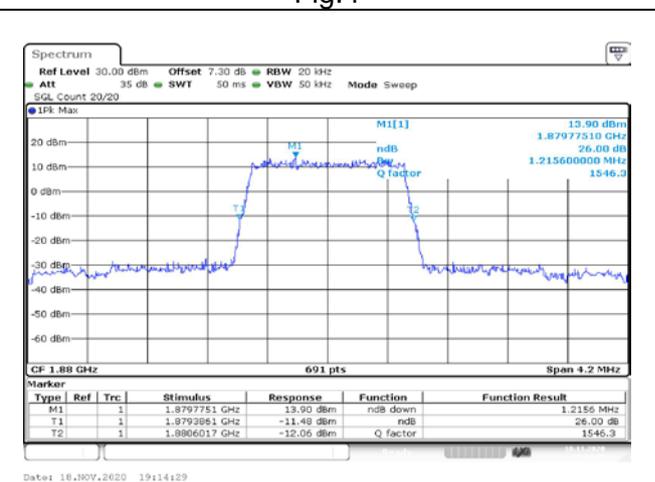


Fig.6

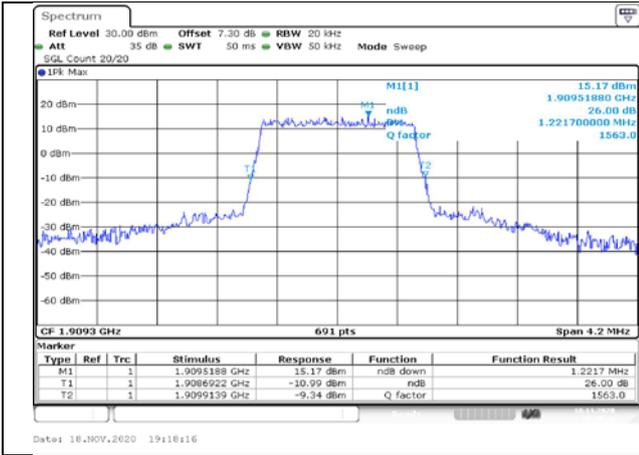


Fig.7

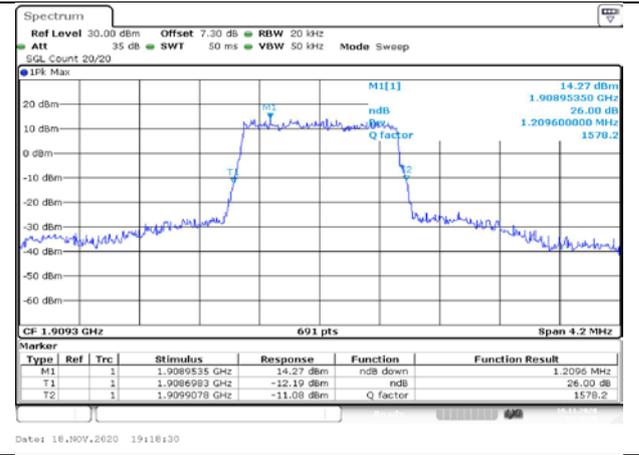


Fig.8

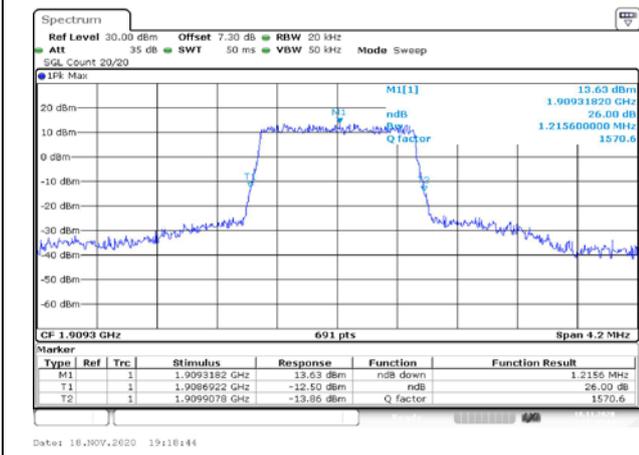


Fig.9

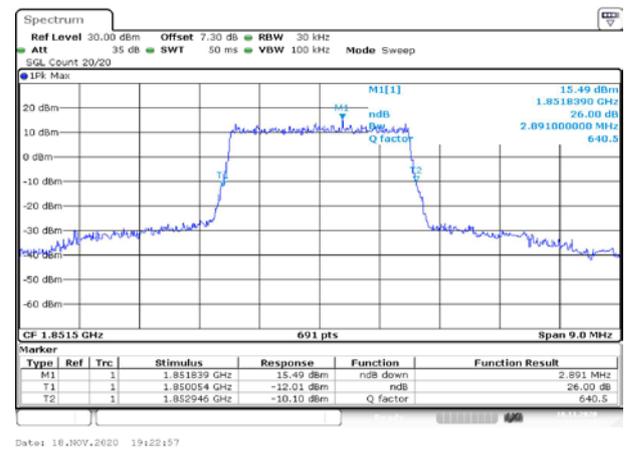


Fig.10

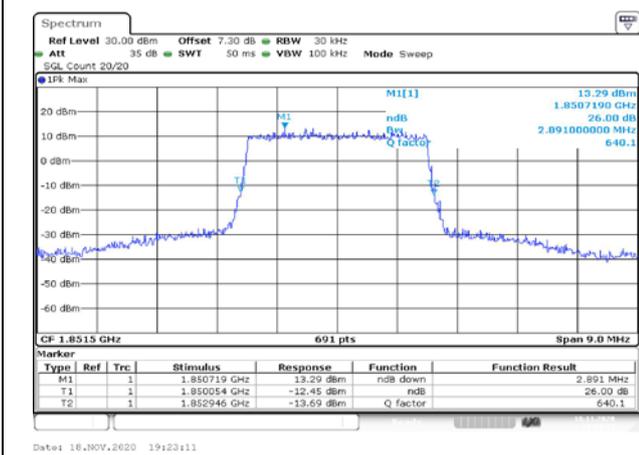


Fig.11

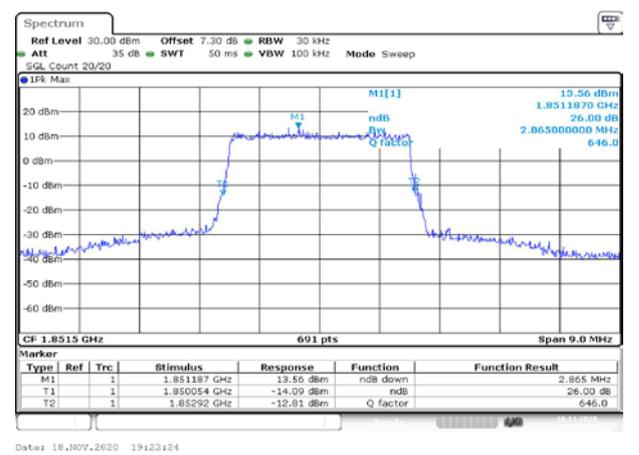


Fig.12