

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	24.2
				1	3	24.2
				1	5	24.2
				3	0	24.3
				3	1	24.3
				3	3	24.3
	1880	18900		6	0	23.2
				1	0	23.9
				1	3	24.0
				1	5	24.0
				3	0	24.0
				3	1	24.2
	1909.3	19193		3	3	24.0
				6	0	22.9
				1	0	24.2
				1	3	24.2
				1	5	24.3
				3	0	24.3
16QAM	1850.7	18607	3	1	24.3	
			3	3	24.3	
			6	0	23.2	
			1	0	24.0	
			1	3	23.9	
			1	5	23.9	
	1880	18900	3	0	23.2	
			3	1	23.4	
			3	3	23.4	
			6	0	22.5	
			1	0	22.8	
			1	3	23.0	
	1909.3	19193	1	5	23.0	
			3	0	23.3	
			3	1	23.3	
			3	3	23.4	
			6	0	22.3	
			1	0	24.0	
			1	3	24.0	
			1	5	24.0	
			3	0	23.3	
			3	1	23.4	
			3	3	23.4	
			6	0	22.5	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1850.7	18607	1.4	1	0	22.5
				1	3	22.5
				1	5	22.5
				3	0	22.5
	1880	18900		1	0	22.1
				1	3	22.2
				1	5	22.3
				3	0	22.3
				3	1	22.3
				3	3	22.0
				6	0	22.0
				1	0	22.5
	1909.3	19193		1	3	22.6
				1	5	22.5
				3	0	22.3
				3	1	22.3
				3	3	22.3
				6	0	22.3

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1851.5	18615	3	1	0	24.0
				1	8	24.1
				1	14	24.1
				8	0	23.3
				8	4	23.1
				8	7	23.2
	1880	18900		15	0	23.3
				1	0	24.2
				1	8	24.1
				1	14	24.1
				8	0	23.1
				8	4	23.1
	1908.5	19185		8	7	23.1
				15	0	23.1
				1	0	24.2
1			8	24.4		
1			14	24.3		
8			0	23.3		
16QAM	1851.5	18615	8	4	23.3	
			8	7	23.3	
			8	7	23.3	
			15	0	23.3	
			1	0	23.5	
			1	8	23.6	
	1880	18900	1	14	23.6	
			8	0	22.6	
			8	4	22.7	
			8	7	22.6	
			15	0	22.4	
			1	0	23.6	
	1908.5	19185	1	8	23.7	
			1	14	23.7	
			8	0	22.2	
8			4	22.3		
8			7	22.3		
15			0	22.3		
			1	0	22.8	
			1	8	22.9	
			1	14	23.3	
			8	0	22.6	
			8	4	22.7	
			8	7	22.7	
			15	0	22.5	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1851.5	18615	3	1	0	22.4
				1	8	22.4
				1	14	22.4
				8	0	22.4
				8	4	22.4
				8	7	22.4
	1880	18900		15	0	22.4
				1	0	22.3
				1	8	22.3
				1	14	22.3
				8	0	22.3
				8	4	22.3
	1908.5	19185		8	7	22.3
				15	0	22.3
				1	0	22.5
				1	8	22.5
				1	14	22.5
				8	0	22.5
			8	4	22.5	
			8	7	22.6	
			15	0	22.5	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1852.5	18625	5	1	0	24.1
				1	12	24.1
				1	24	24.1
				12	0	23.2
				12	7	23.3
				12	13	23.2
	1880	18900		25	0	23.1
				1	0	24.1
				1	12	24.2
				1	24	24.2
				12	0	23.1
				12	7	23.2
	1907.5	19175		12	13	23.1
				25	0	23.1
				1	0	24.2
1			12	24.2		
1			24	24.2		
12			0	23.3		
16QAM	1852.5	18625	12	7	23.3	
			12	13	23.3	
			25	0	23.3	
			1	0	22.5	
			1	12	22.6	
			1	24	22.5	
	1880	18900	12	0	22.2	
			12	7	22.2	
			12	13	22.2	
			25	0	22.4	
			1	0	23.4	
			1	12	23.4	
	1907.5	19175	1	24	23.1	
			12	0	22.1	
			12	7	22.2	
12			13	22.4		
25			0	22.2		
1			0	23.4		
			1	12	23.4	
			1	24	23.5	
			12	0	22.3	
			12	7	22.3	
			12	13	22.3	
			25	0	22.3	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1852.5	18625	5	1	0	22.4
				1	12	22.4
				1	24	22.4
				12	0	22.4
				12	7	22.4
				12	13	22.4
	1880	18900		25	0	22.4
				1	0	22.2
				1	12	22.2
				1	24	22.2
				12	0	22.2
				12	7	22.2
	1907.5	19175		12	13	22.2
				25	0	22.2
				1	0	22.3
				1	12	22.3
				1	24	22.3
				12	0	22.3
			12	7	22.3	
			12	13	22.3	
			25	0	22.3	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1855	18650	10	1	0	24.1
				1	25	24.1
				1	49	24.1
				25	0	23.1
				25	12	23.2
				25	25	23.2
	1880	18900		50	0	23.2
				1	0	24.2
				1	25	24.3
				1	49	24.3
				25	0	23.1
				25	12	23.2
	1905	19150		25	25	23.1
				50	0	23.1
				1	0	24.1
1			25	24.3		
1			49	24.4		
25			0	23.3		
16QAM	1855	18650	25	12	23.4	
			25	25	23.4	
			50	0	23.3	
			1	0	23.4	
			1	25	23.5	
			1	49	23.5	
	1880	18900	25	0	22.3	
			25	12	22.3	
			25	25	22.4	
			50	0	22.4	
			1	0	23.9	
			1	25	24.0	
	1905	19150	1	49	24.0	
			25	0	22.2	
			25	12	22.3	
25			25	22.2		
50			0	22.3		
1			0	23.2		
			1	25	23.3	
			1	49	23.3	
			25	0	22.6	
			25	12	22.7	
			25	25	22.6	
			50	0	22.5	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1855	18650	10	1	0	22.4
				1	25	22.3
				1	49	22.4
				25	0	22.3
				25	12	22.3
				25	25	22.3
	50	0		22.3		
	1880	18900		1	0	22.3
				1	25	22.3
				1	49	22.3
				25	0	22.3
				25	12	22.4
				25	25	22.3
	1905	19150		50	0	22.3
				1	0	22.5
				1	25	22.5
				1	49	22.5
				25	0	22.5
25			12	22.5		
			25	25	22.5	
			50	0	22.5	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1857.5	18675	15	1	0	24.1
				1	37	24.1
				1	74	24.1
				36	0	23.2
				36	29	23.2
				36	30	23.2
	1880	18900		75	0	23.2
				1	0	24.2
				1	37	24.2
				1	74	24.2
				36	0	23.1
				36	29	23.2
	1902.5	19125		36	30	23.2
				75	0	23.1
				1	0	24.0
1			37	24.2		
1			74	24.3		
36			0	23.3		
16QAM	1857.5	18675	36	29	23.5	
			36	30	23.5	
			75	0	23.4	
			1	0	23.7	
			1	37	23.7	
			1	74	23.7	
	1880	18900	36	0	22.3	
			36	29	22.4	
			36	30	22.5	
			75	0	22.3	
			1	0	23.9	
			1	37	24.1	
	1902.5	19125	1	74	24.1	
			36	0	22.2	
			36	29	22.2	
36			30	22.2		
75			0	22.2		
1			0	23.6		
1	37	23.8				
1	74	23.8				
36	0	22.4				
36	29	22.4				
36	30	22.4				
75	0	22.3				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1857.5	18675	15	1	0	22.3
				1	37	22.3
				1	74	22.3
				36	0	22.3
				36	29	22.3
				36	30	22.3
	1880	18900		75	0	22.4
				1	0	22.2
				1	37	22.2
				1	74	22.2
				36	0	22.2
				36	29	22.2
	1902.5	19125		36	30	22.2
				75	0	22.2
				1	0	22.3
				1	37	22.3
				1	74	22.3
				36	0	22.3
			36	29	22.3	
			36	30	22.3	
			75	0	22.3	

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1860	18700	20	1	0	24.2
				1	49	24.2
				1	99	24.2
				50	0	23.2
				50	24	23.2
				50	50	23.2
	100	0		23.1		
	1880	18900		1	0	24.3
				1	49	24.4
				1	99	24.4
				50	0	23.2
				50	24	23.2
				50	50	23.2
	100	0		23.1		
	1900	19100		1	0	24.1
1			49	24.5		
1			99	24.3		
50			0	23.2		
50			24	23.3		
50			50	23.4		
16QAM	1860	18700	100	0	23.3	
			1	0	23.2	
			1	49	23.4	
			1	99	23.4	
			50	0	22.4	
			50	24	22.3	
	50	50	22.3			
	100	0	22.3			
	1880	18900	1	0	23.2	
			1	49	23.3	
			1	99	23.3	
			50	0	22.3	
			50	24	22.3	
			50	50	22.4	
	100	0	22.2			
1900	19100	1	0	24.0		
		1	49	24.3		
		1	99	24.2		
		50	0	22.3		
		50	24	22.5		
		50	50	22.4		
100	0	22.5				

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
64QAM	1860	18700	20	1	0	22.3
				1	49	22.3
				1	99	22.3
				50	0	22.3
				50	24	22.3
				50	50	22.3
	100	0		22.3		
	1880	18900		1	0	22.2
				1	49	22.2
				1	99	22.2
				50	0	22.2
				50	24	22.2
				50	50	22.2
	100	0		22.2		
	1900	19100		1	0	22.5
				1	49	22.5
				1	99	22.5
				50	0	22.5
50			24	22.5		
50			50	22.5		
100	0	22.4				

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	
2	1850.7	18607	1.4	6	0	1.094	Fig.1	1.094	Fig.2	1.094	Fig.3
	1880	18900		6	0	1.082	Fig.4	1.094	Fig.5	1.094	Fig.6
	1909.3	19193		6	0	1.088	Fig.7	1.100	Fig.8	1.100	Fig.9
	1851.5	18615	3	15	0	2.735	Fig.10	2.748	Fig.11	2.748	Fig.12
	1880	18900		15	0	2.748	Fig.13	2.735	Fig.14	2.735	Fig.15
	1908.5	19185		15	0	2.748	Fig.16	2.748	Fig.17	2.748	Fig.18
	1852.5	18625	5	25	0	4.515	Fig.19	4.515	Fig.20	4.515	Fig.21
	1880	18900		25	0	4.493	Fig.22	4.515	Fig.23	4.515	Fig.24
	1907.5	19175		25	0	4.493	Fig.25	4.515	Fig.26	4.493	Fig.27
	1855	18650	10	50	0	9.074	Fig.28	9.030	Fig.29	9.030	Fig.30
	1880	18900		50	0	9.030	Fig.31	9.030	Fig.32	9.030	Fig.33
	1905	19150		50	0	9.030	Fig.34	9.030	Fig.35	9.030	Fig.36
	1857.5	18675	15	75	0	13.415	Fig.37	13.480	Fig.38	13.480	Fig.39
	1880	18900		75	0	13.415	Fig.40	13.480	Fig.41	13.480	Fig.42
	1902.5	19125		75	0	13.480	Fig.43	13.546	Fig.44	13.546	Fig.45
	1860	18700	20	100	0	17.887	Fig.46	17.974	Fig.47	17.887	Fig.48
1880	18900	100		0	17.887	Fig.49	17.974	Fig.50	17.887	Fig.51	
1900	19100	100		0	17.974	Fig.52	17.887	Fig.53	17.887	Fig.54	

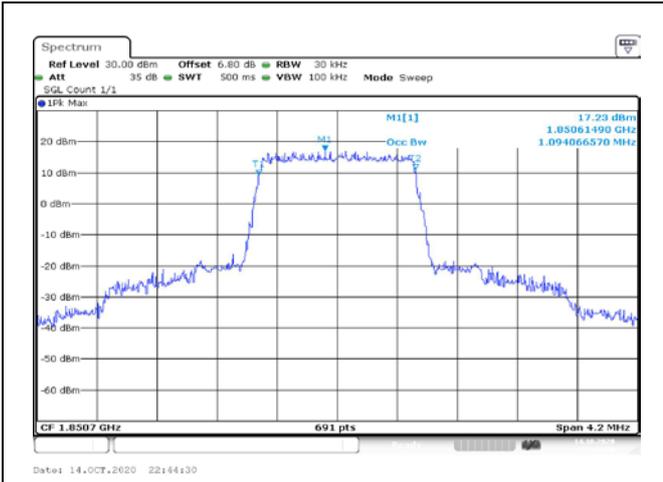


Fig.1

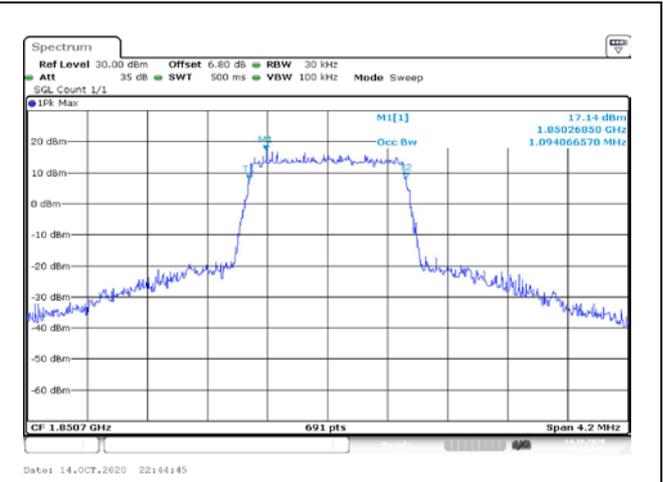


Fig.2

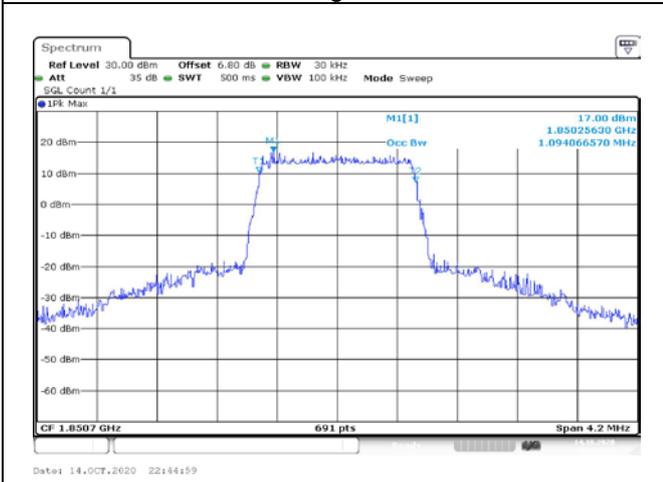


Fig.3

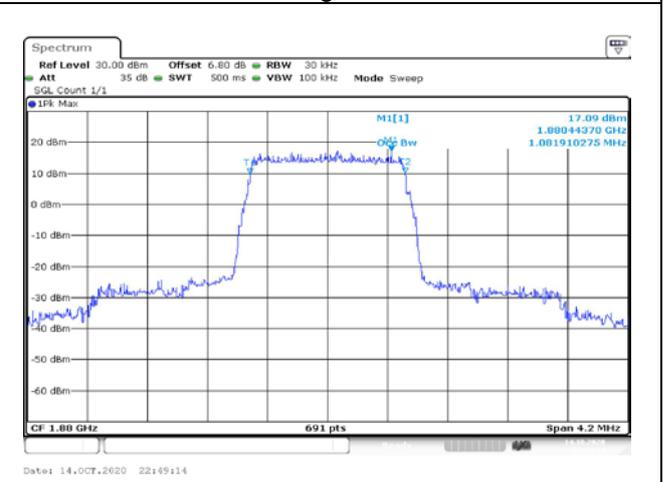


Fig.4

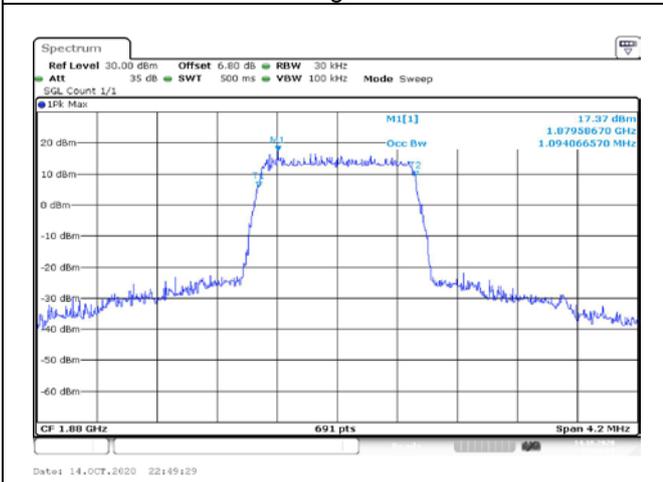


Fig.5

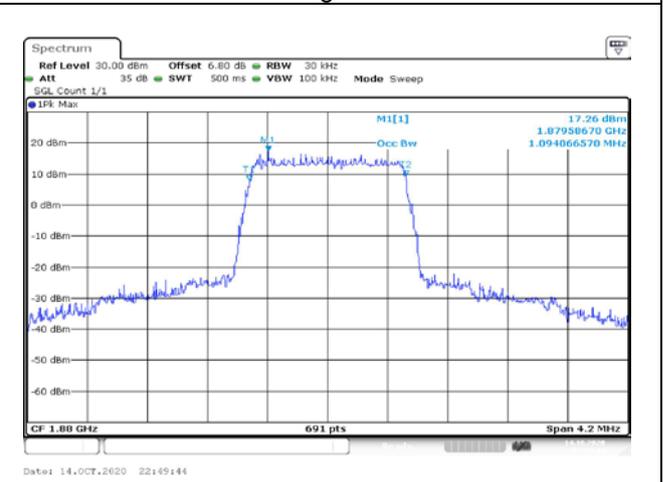


Fig.6

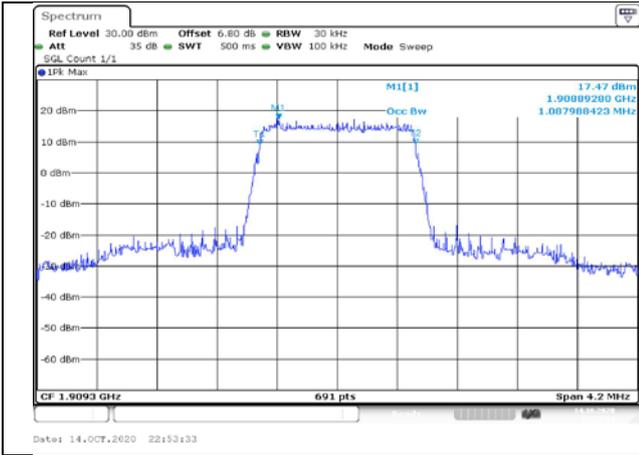


Fig.7

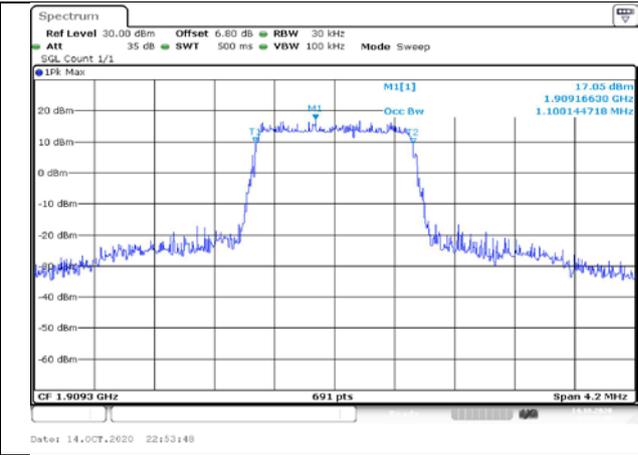


Fig.8

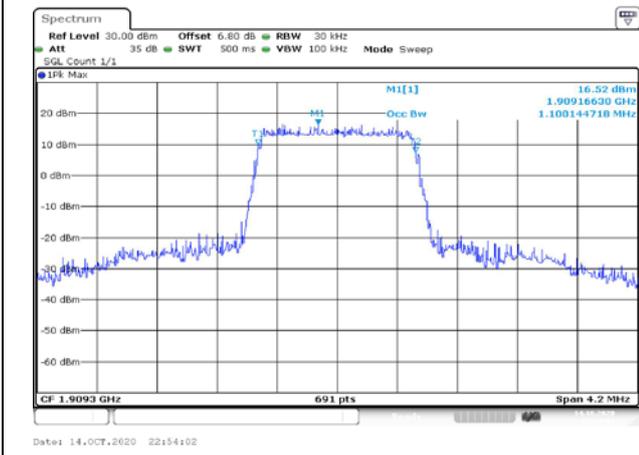


Fig.9

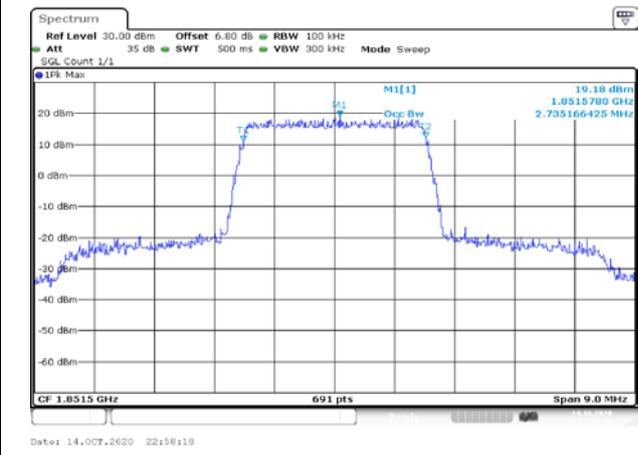


Fig.10

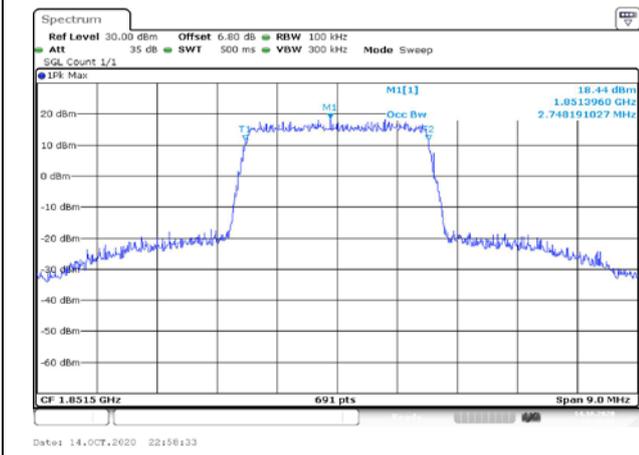


Fig.11

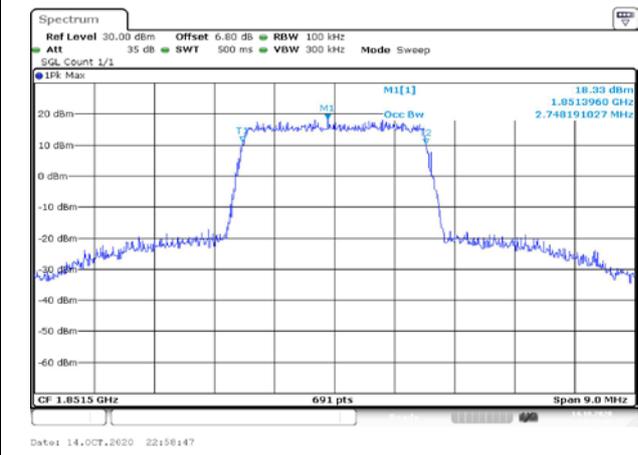
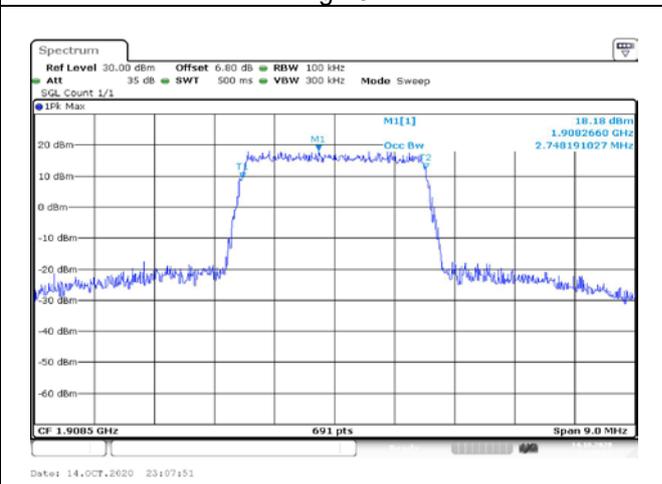
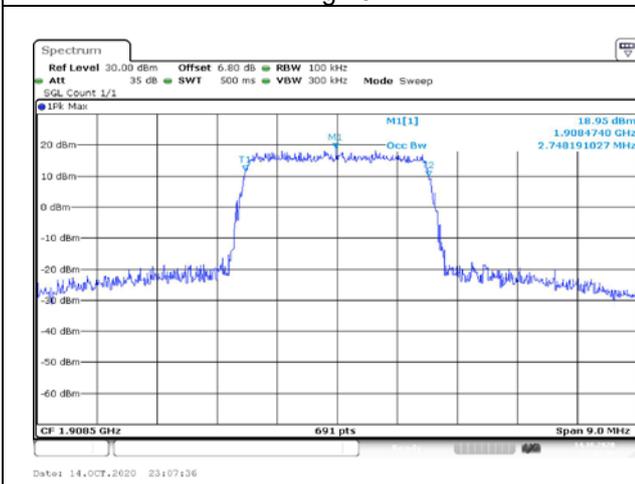
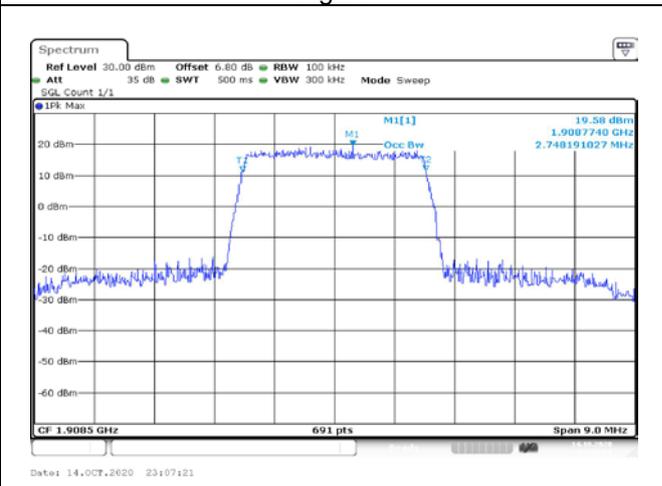
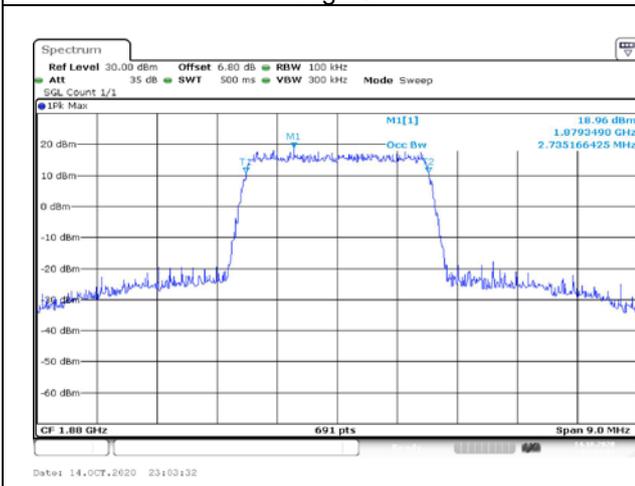
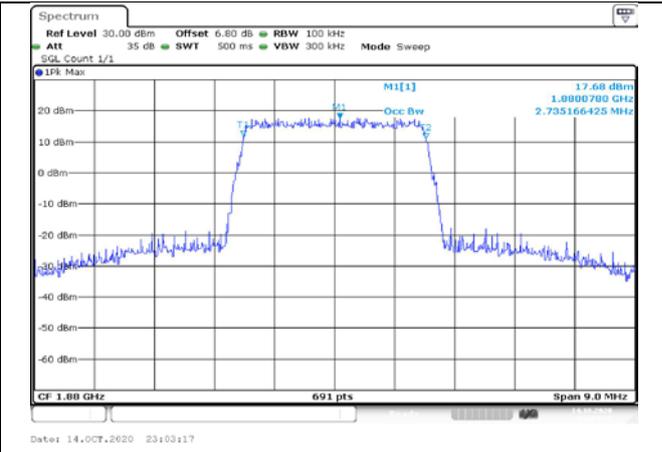
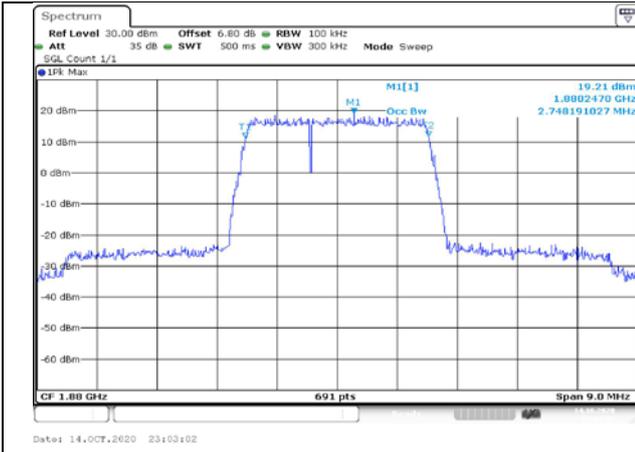
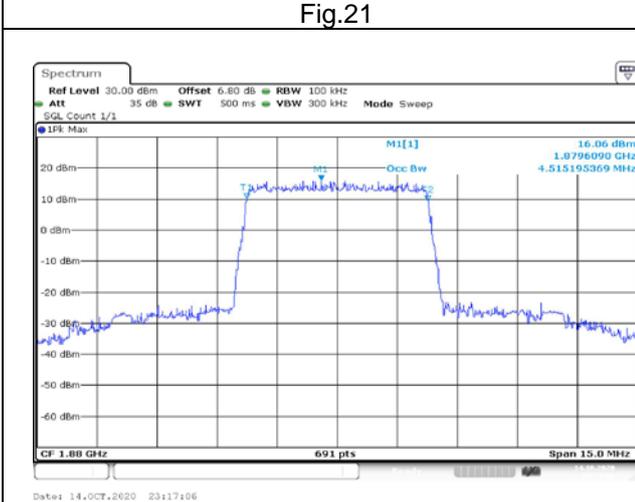
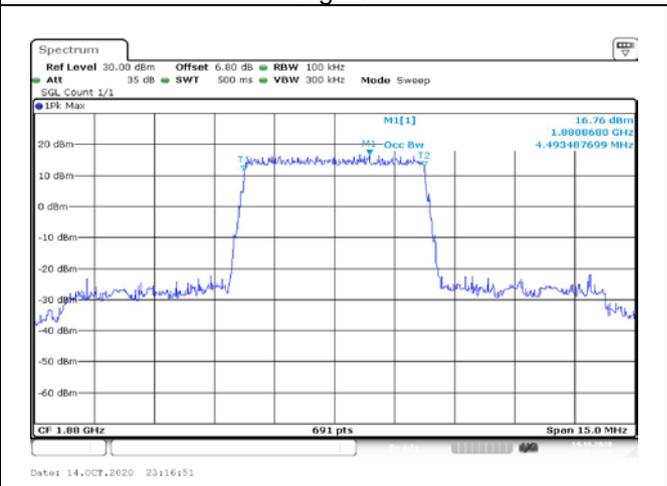
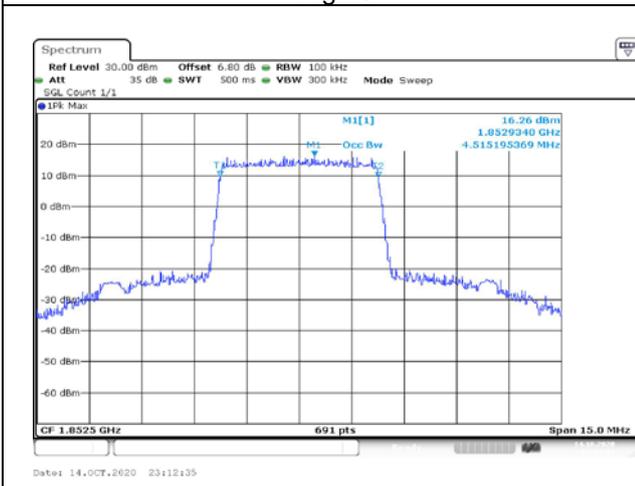
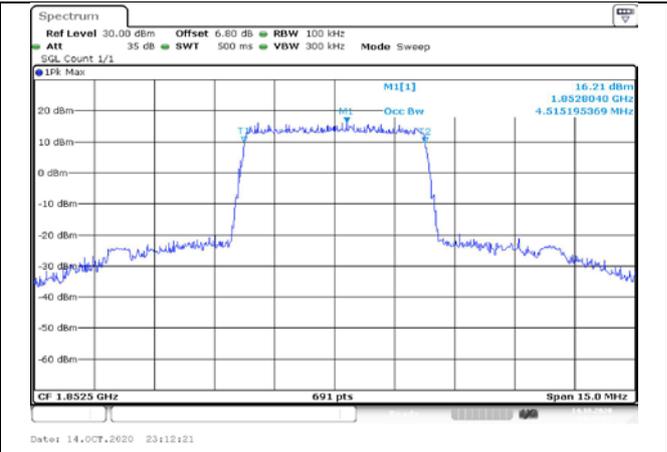
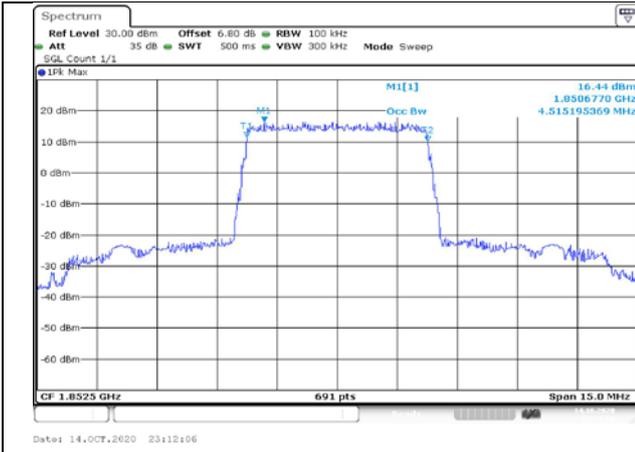


Fig.12





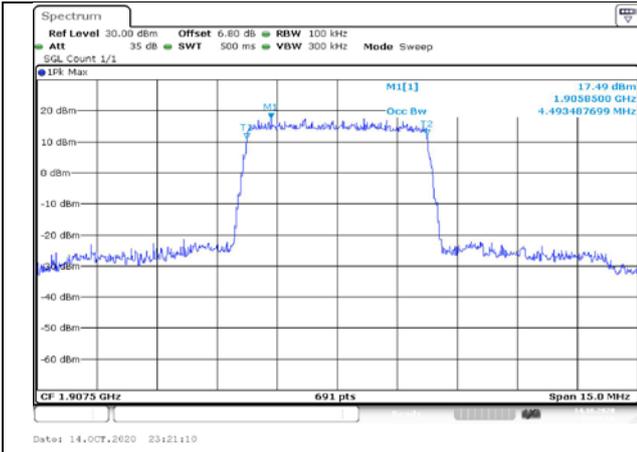


Fig.25

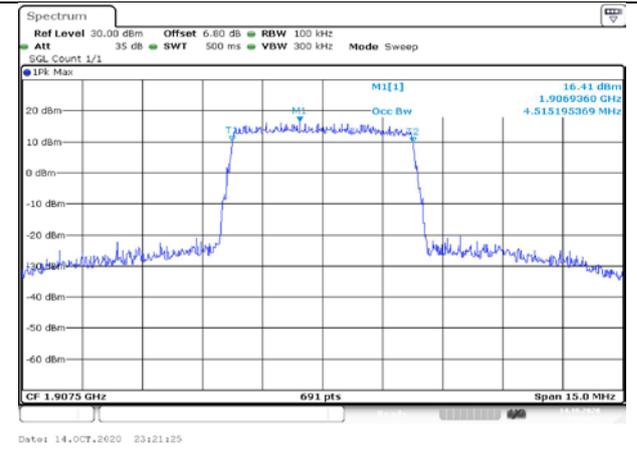


Fig.26

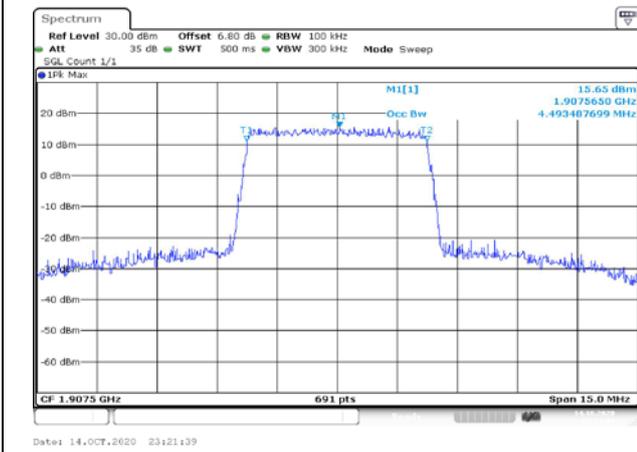


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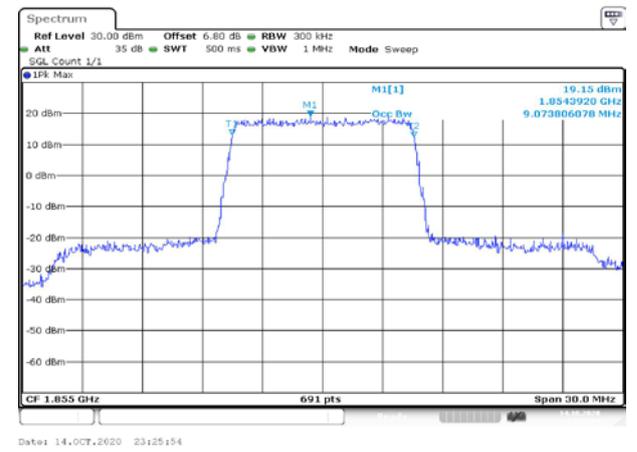


Fig.28

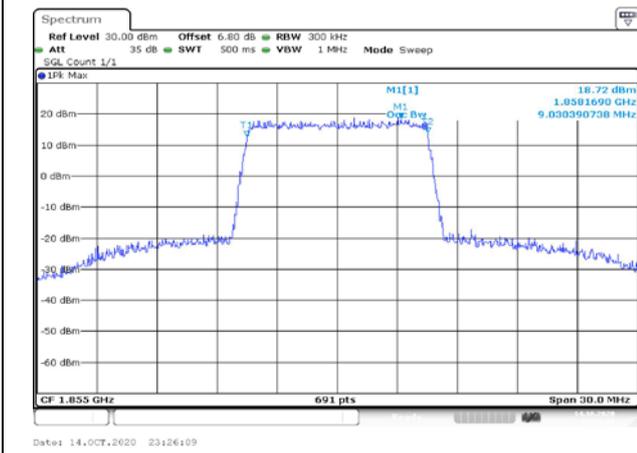


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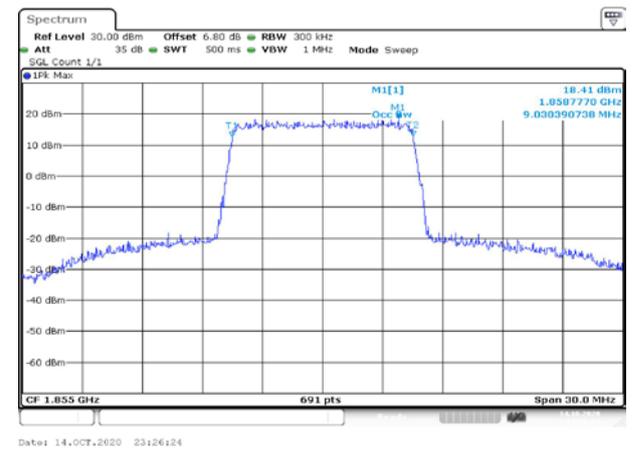


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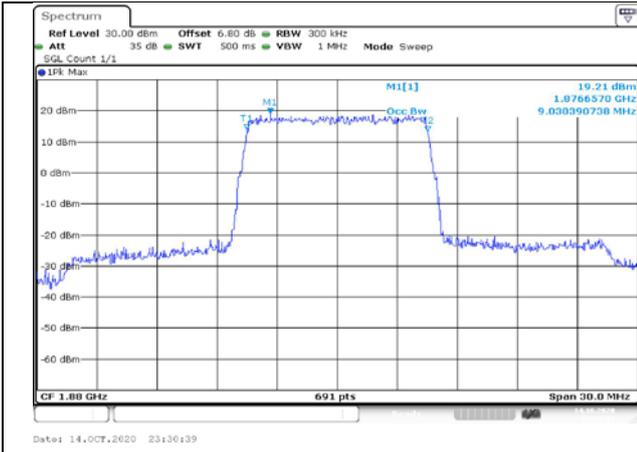


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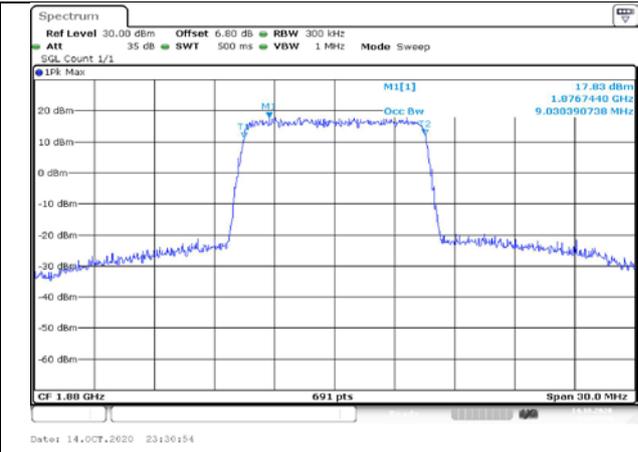


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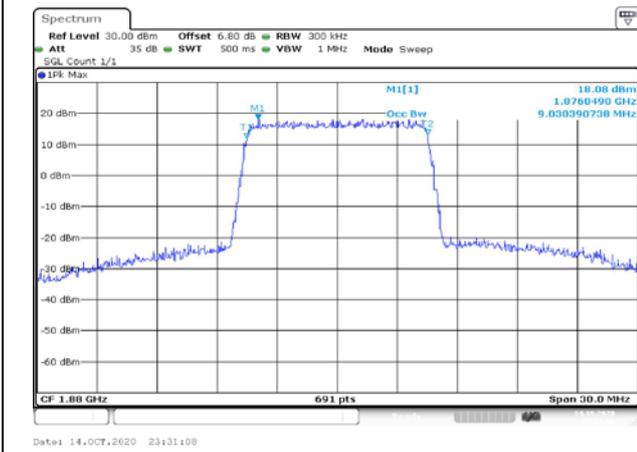


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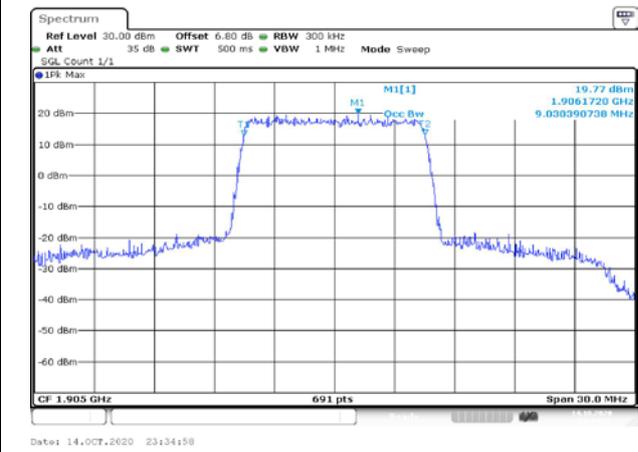


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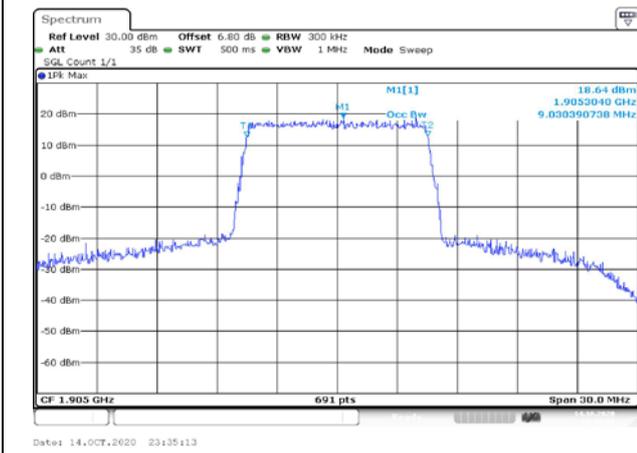


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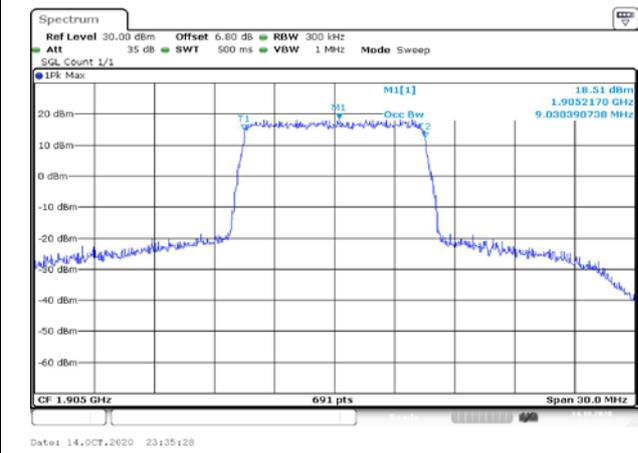


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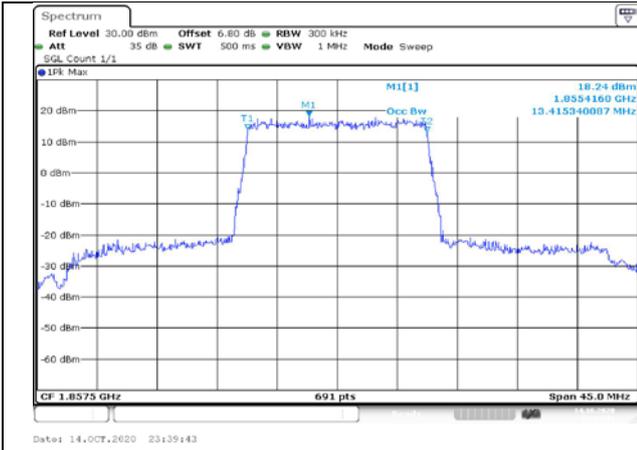


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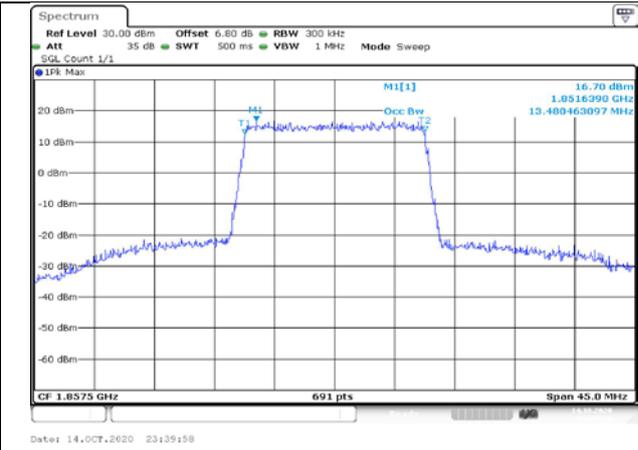


Fig.38

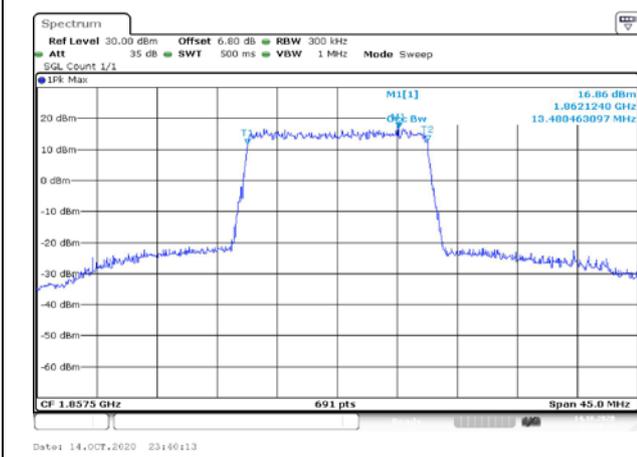


Fig.39

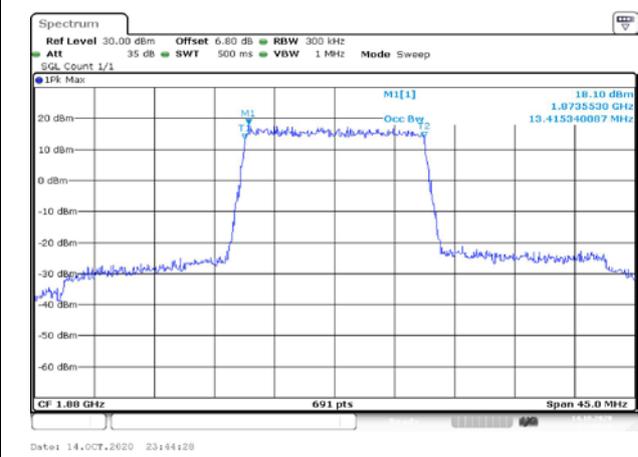


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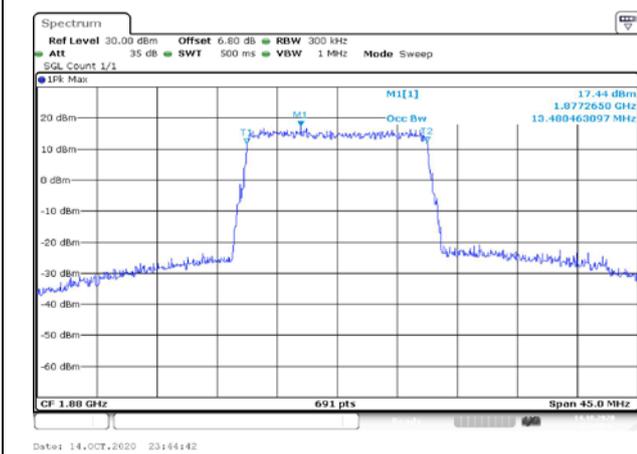


Fig.41

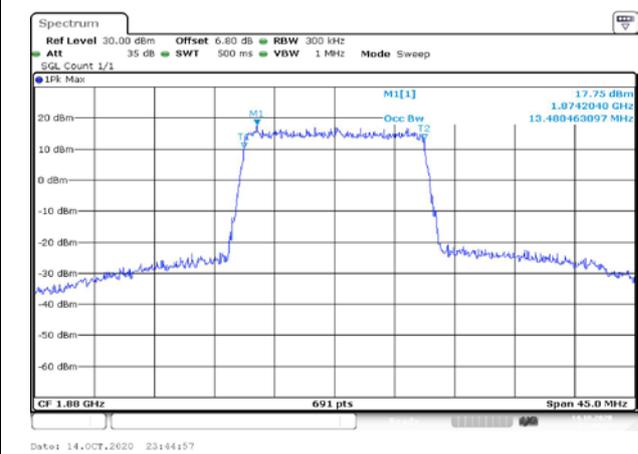


Fig.42

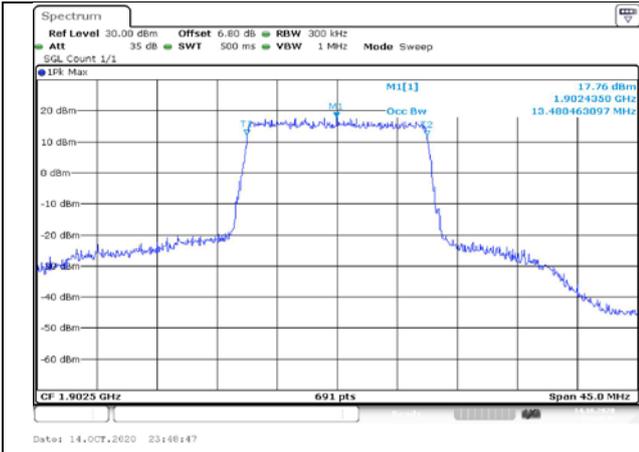


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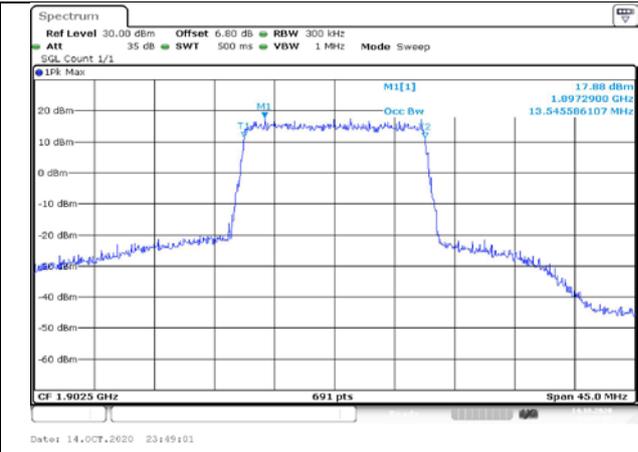


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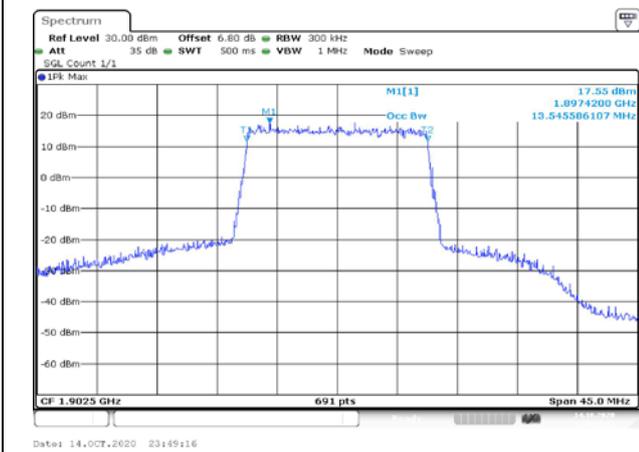


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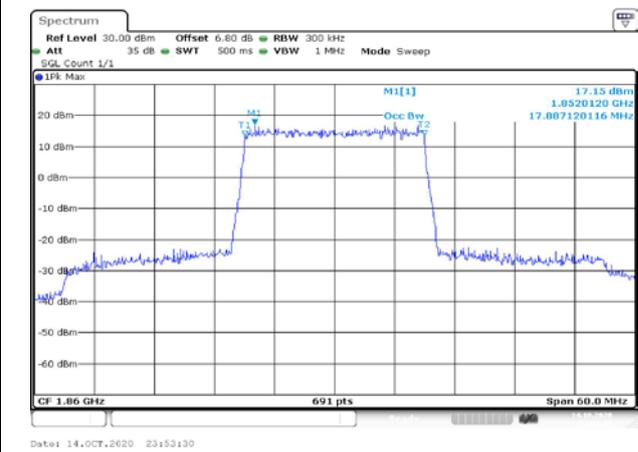


Fig.46

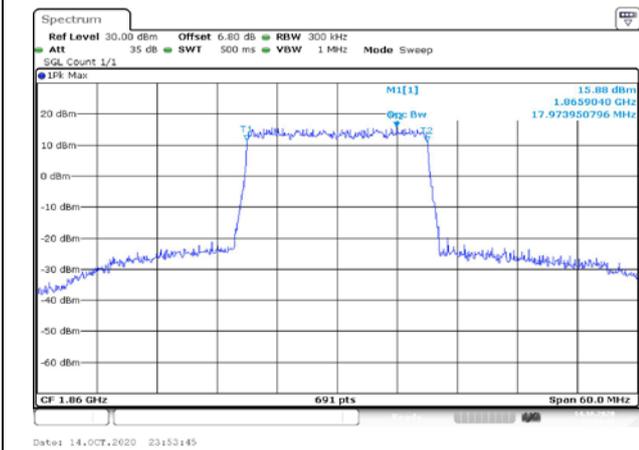


Fig.47

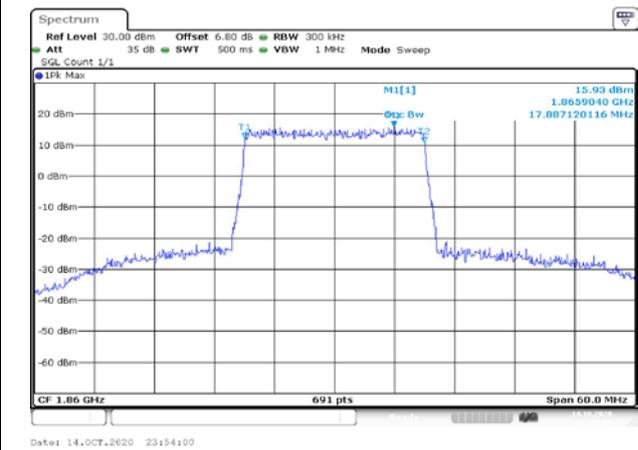
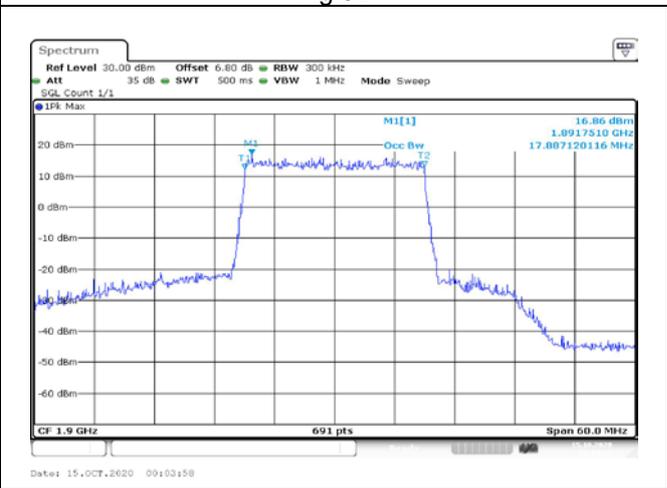
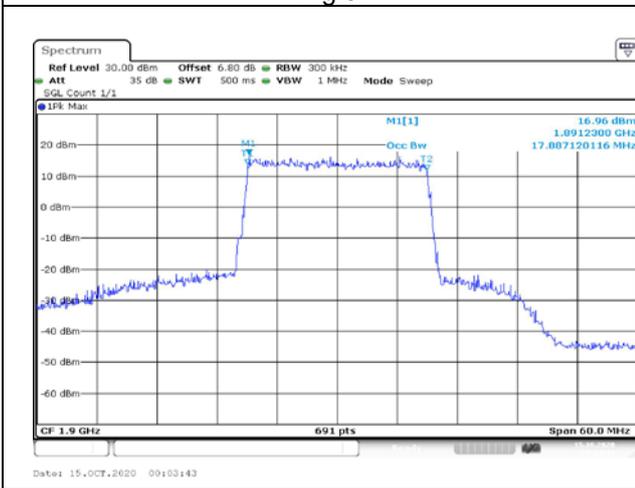
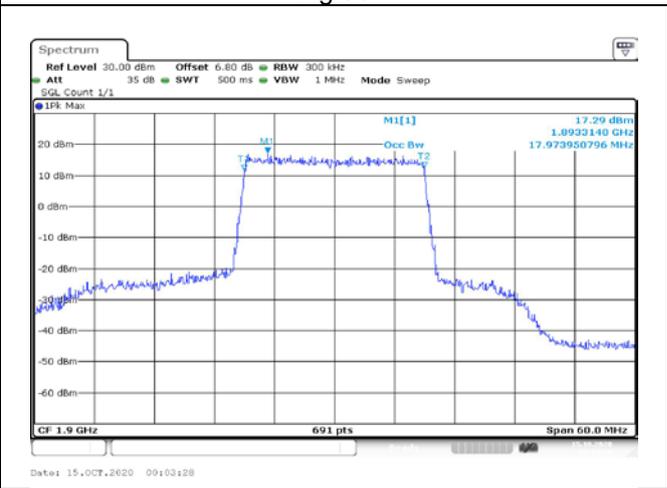
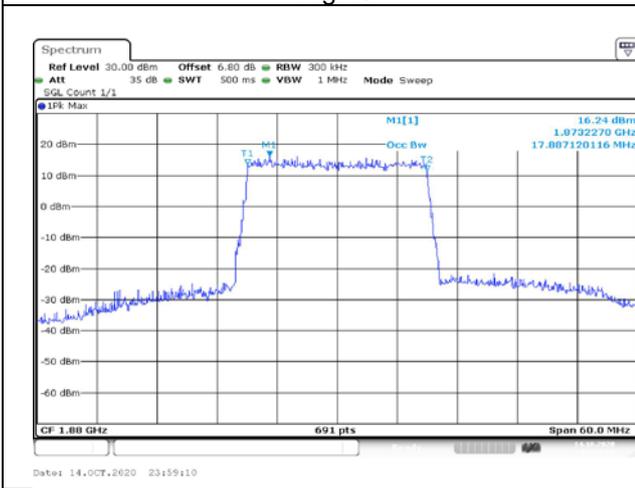
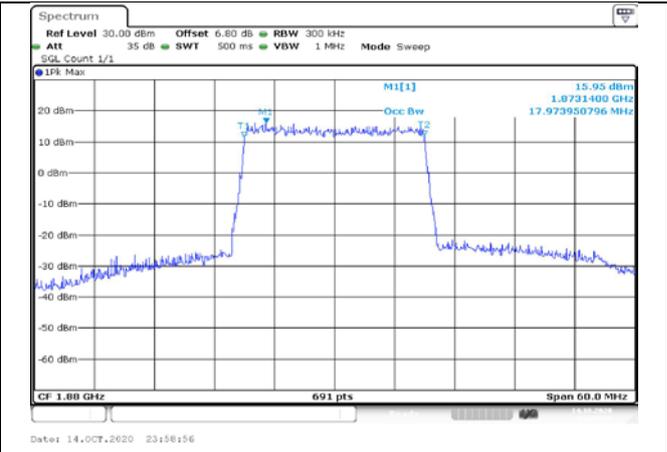
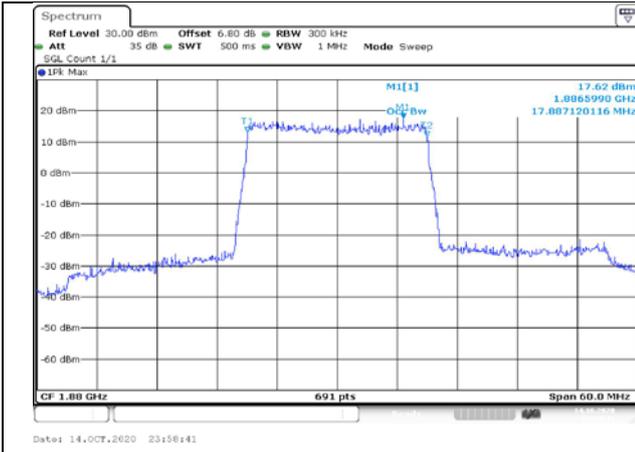


Fig.48



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	
2	1850.7	18607	1.4	6	0	1.246	Fig.1	1.240	Fig.2	1.246	Fig.3
	1880	18900		6	0	1.246	Fig.4	1.228	Fig.5	1.228	Fig.6
	1909.3	19193		6	0	1.246	Fig.7	1.240	Fig.8	1.240	Fig.9
	1851.5	18615	3	15	0	3.087	Fig.10	3.048	Fig.11	3.061	Fig.12
	1880	18900		15	0	3.074	Fig.13	3.087	Fig.14	3.048	Fig.15
	1908.5	19185		15	0	3.061	Fig.16	3.074	Fig.17	3.061	Fig.18
	1852.5	18625	5	25	0	4.906	Fig.19	4.971	Fig.20	4.906	Fig.21
	1880	18900		25	0	4.928	Fig.22	4.971	Fig.23	4.949	Fig.24
	1907.5	19175		25	0	4.928	Fig.25	4.928	Fig.26	4.949	Fig.27
	1855	18650	10	50	0	10.072	Fig.28	10.029	Fig.29	9.986	Fig.30
	1880	18900		50	0	9.986	Fig.31	9.942	Fig.32	10.029	Fig.33
	1905	19150		50	0	9.942	Fig.34	10.029	Fig.35	10.029	Fig.36
	1857.5	18675	15	75	0	14.913	Fig.37	14.783	Fig.38	14.913	Fig.39
	1880	18900		75	0	14.848	Fig.40	14.718	Fig.41	14.848	Fig.42
	1902.5	19125		75	0	14.783	Fig.43	14.718	Fig.44	14.848	Fig.45
	1860	18700	20	100	0	19.363	Fig.46	19.450	Fig.47	19.537	Fig.48
	1880	18900		100	0	19.537	Fig.49	19.537	Fig.50	19.450	Fig.51
	1900	19100		100	0	19.450	Fig.52	19.537	Fig.53	19.537	Fig.54

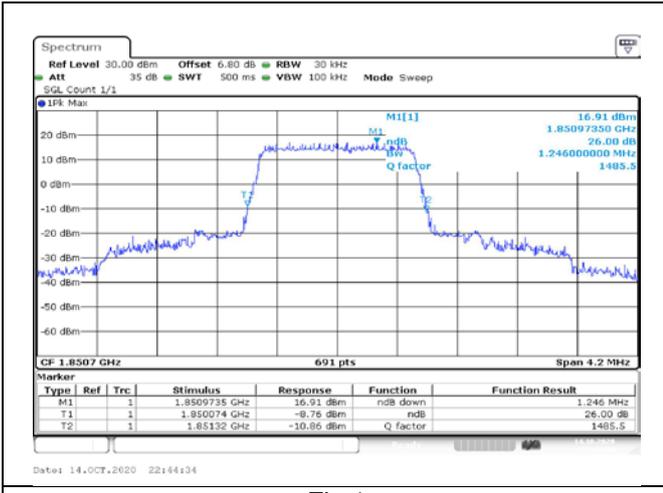


Fig.1

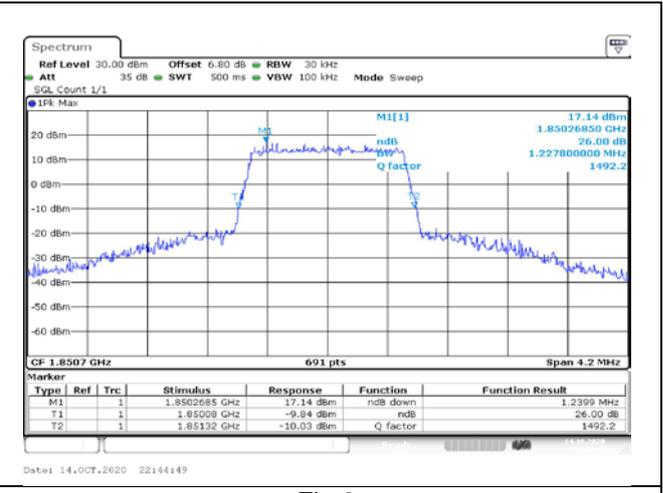


Fig.2

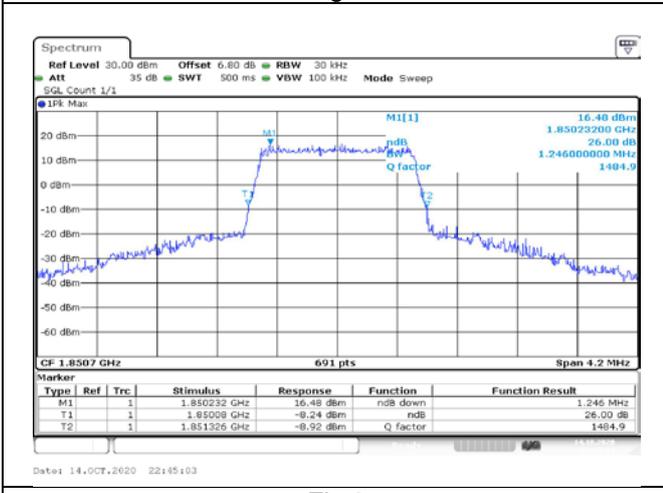


Fig.3

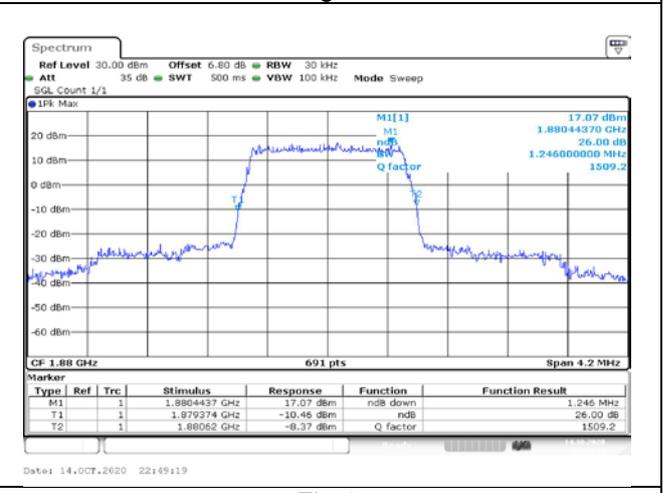


Fig.4

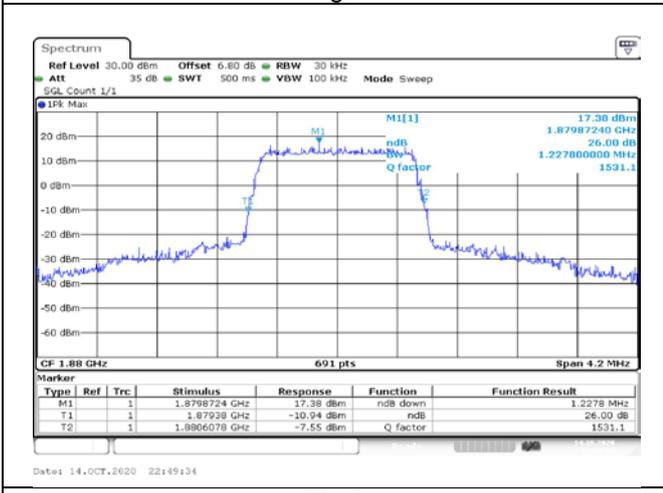


Fig.5

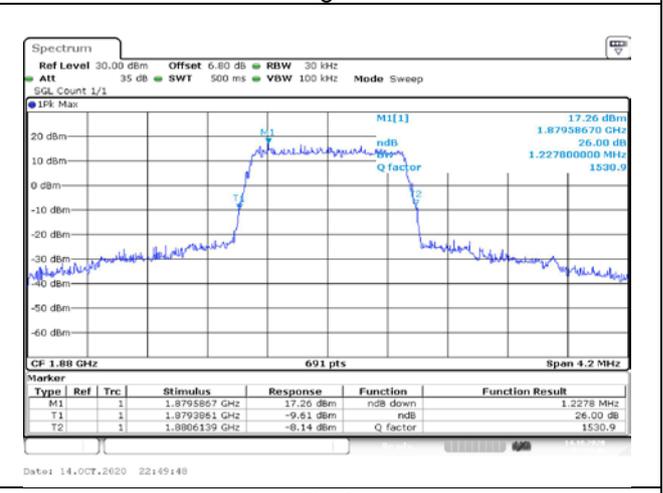


Fig.6

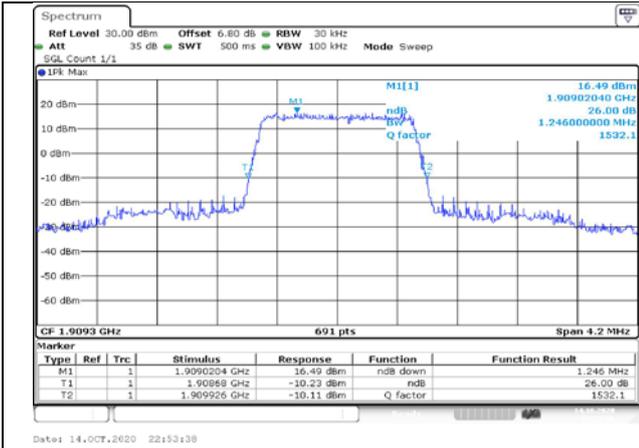


Fig.7

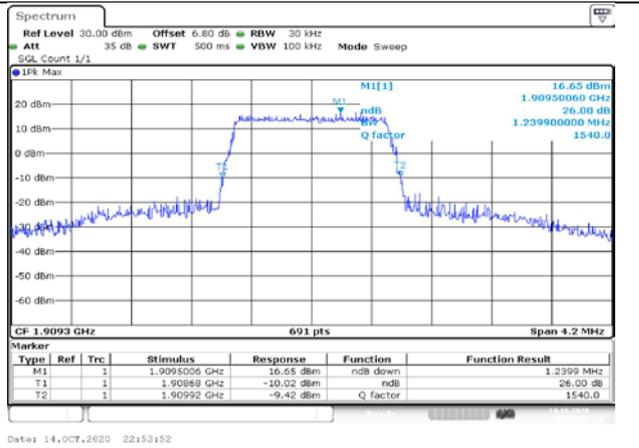


Fig.8

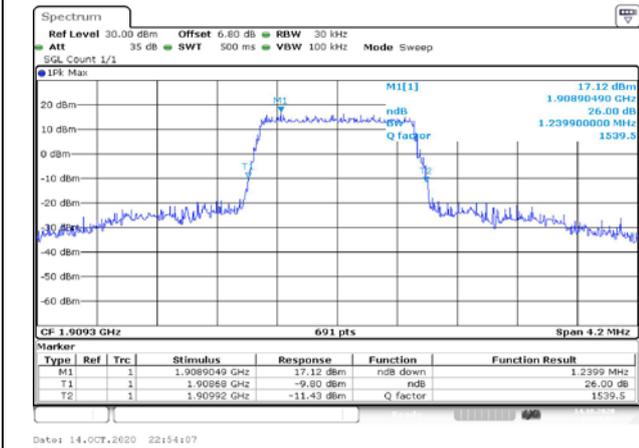


Fig.9

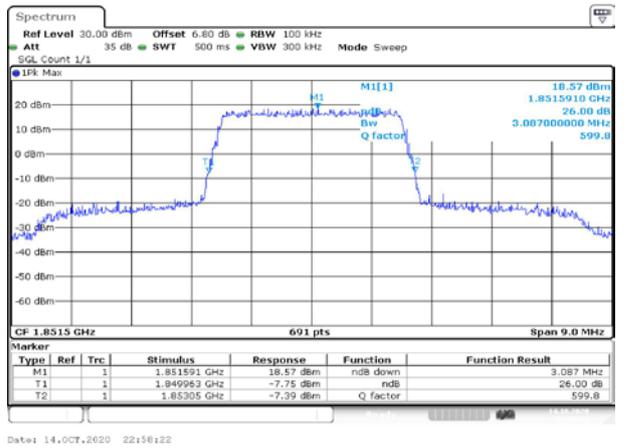


Fig.10

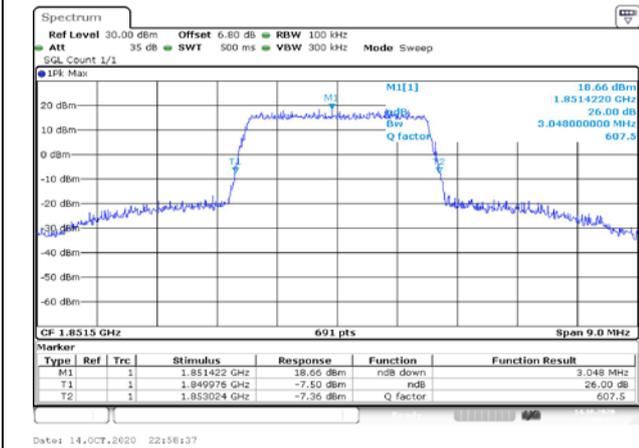


Fig.11

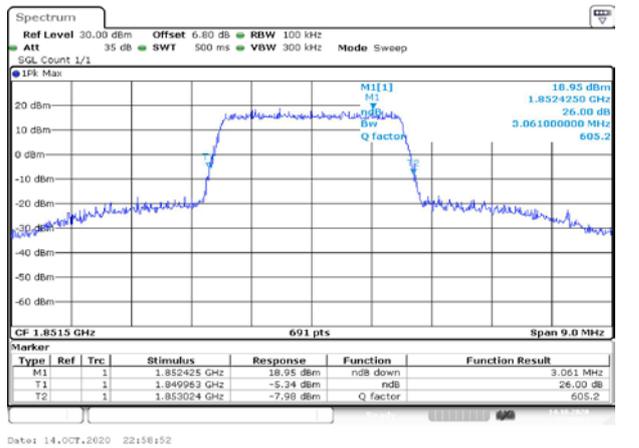


Fig.12

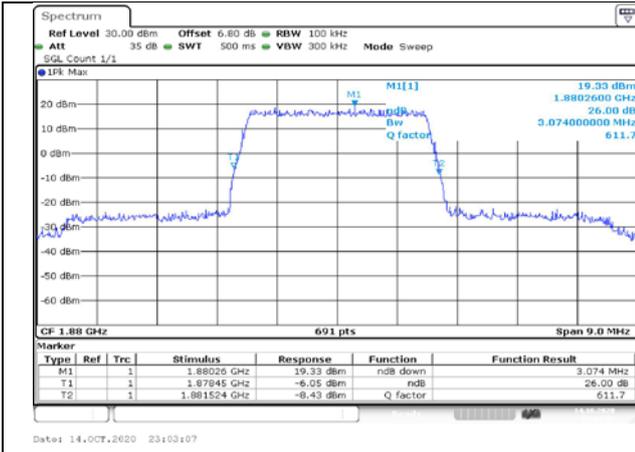


Fig.13

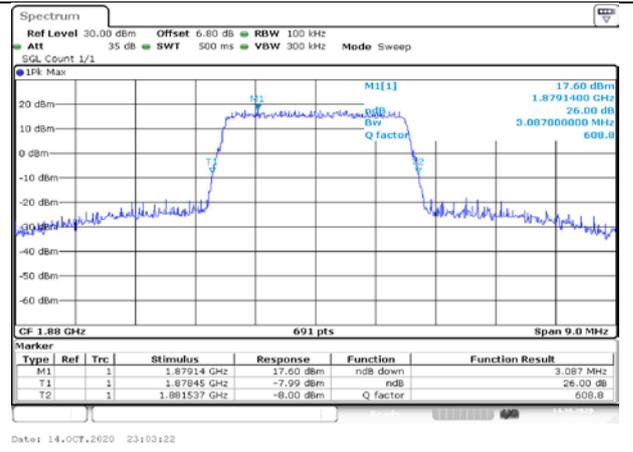


Fig.14

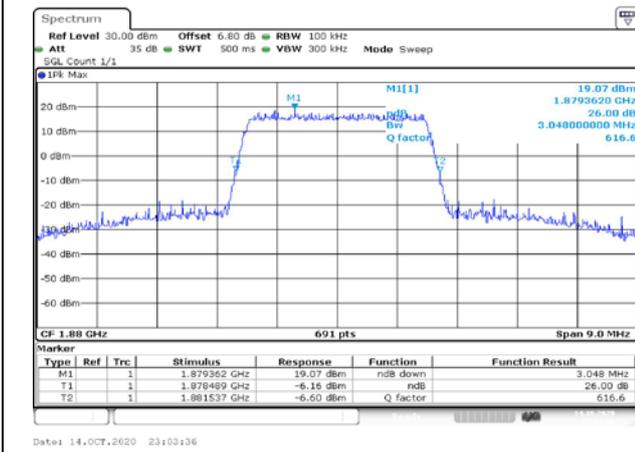


Fig.15

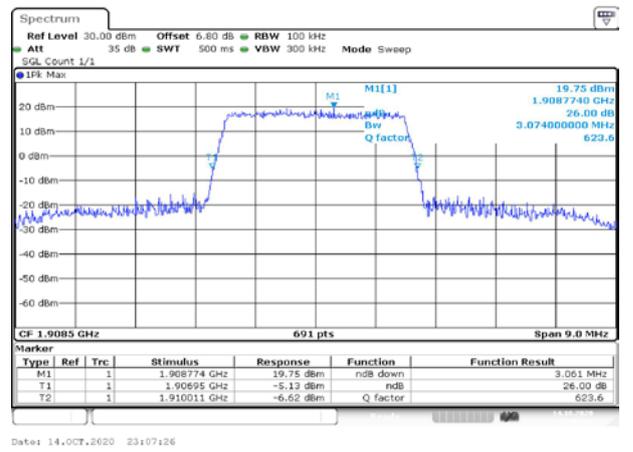


Fig.16

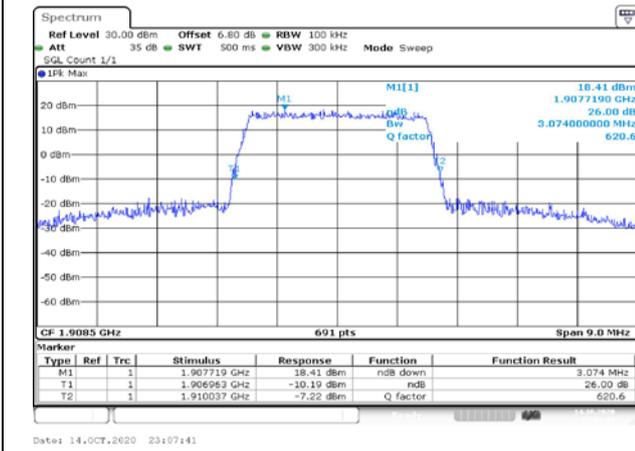


Fig.17

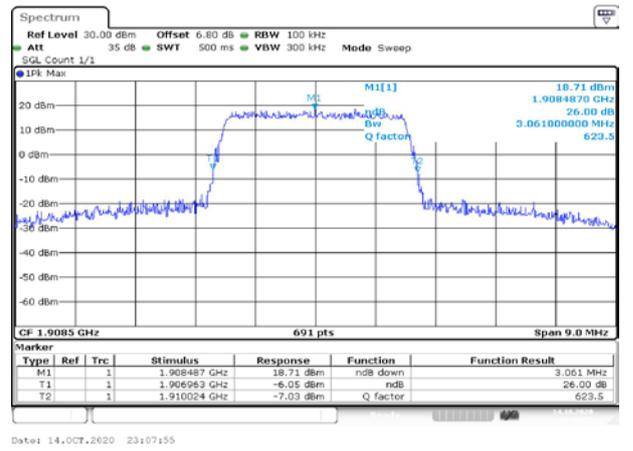


Fig.18



Fig.19

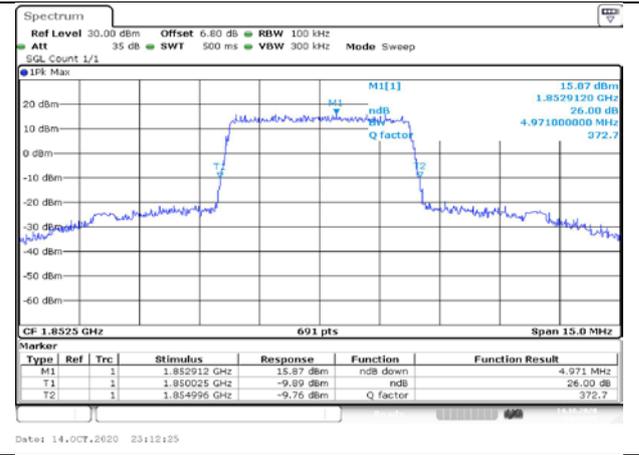


Fig.20

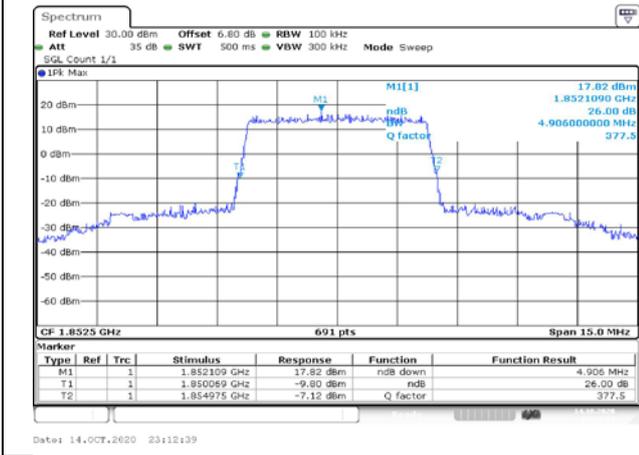


Fig.21

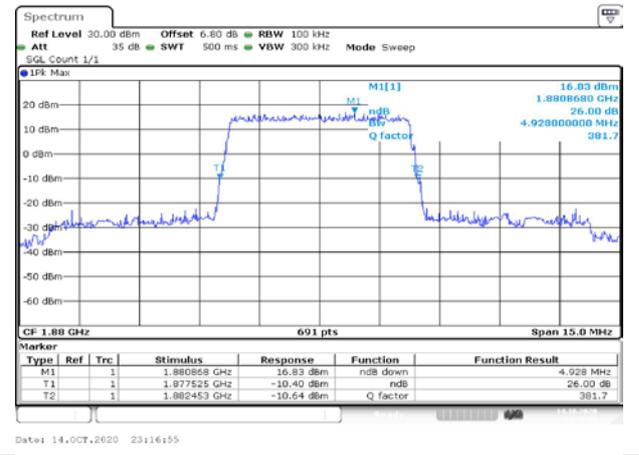


Fig.22

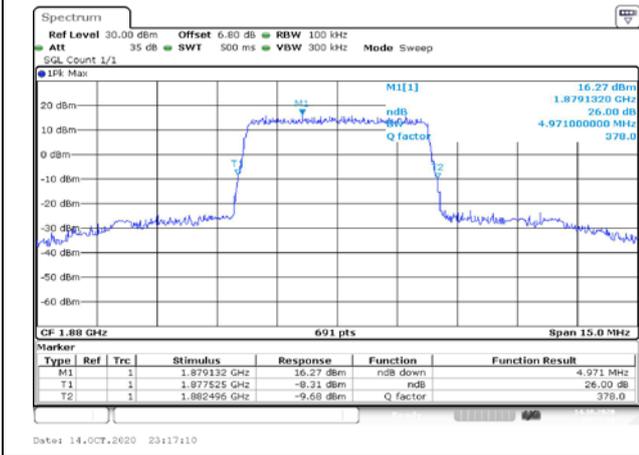


Fig.23

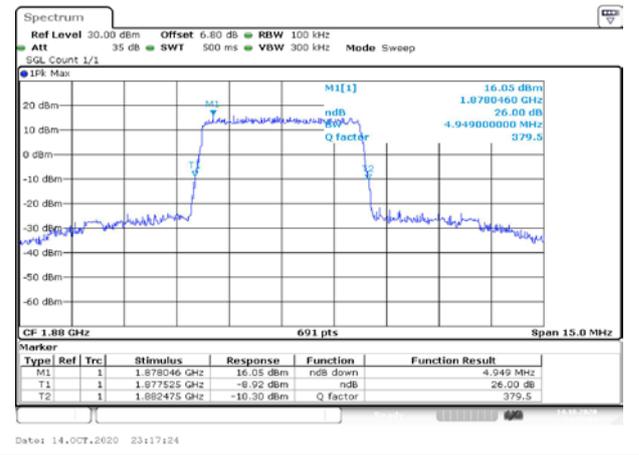


Fig.24

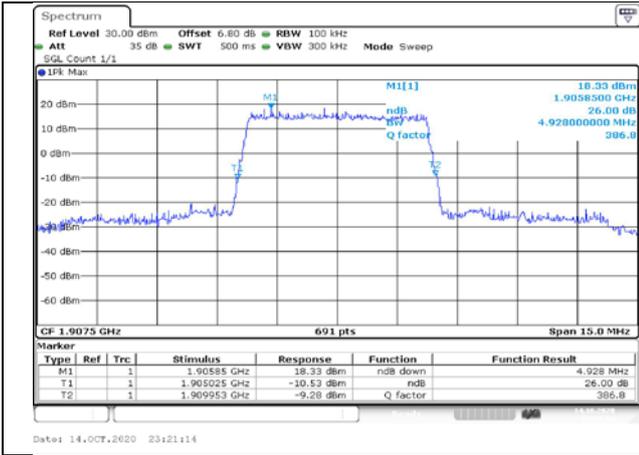


Fig.25

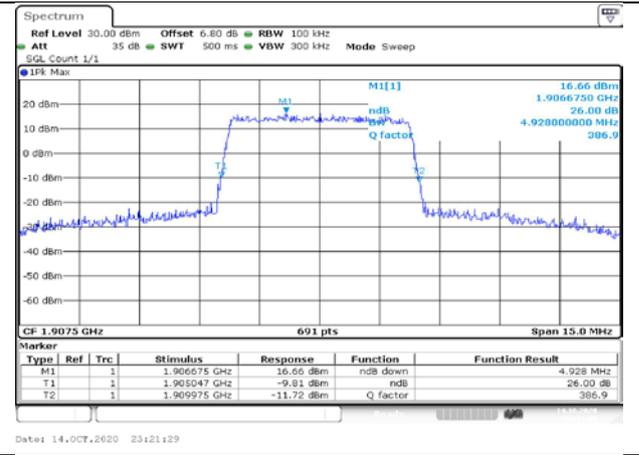


Fig.26

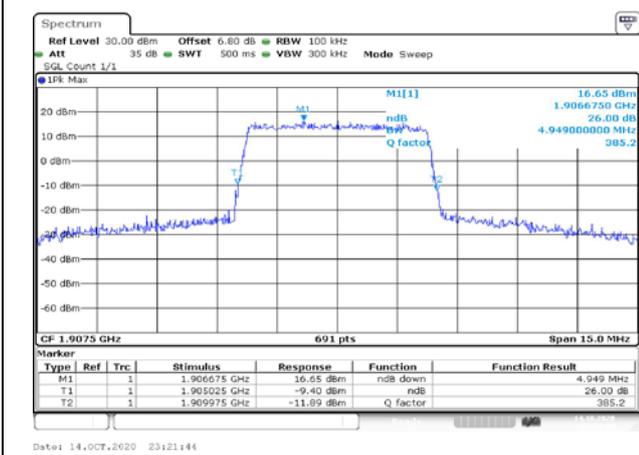


Fig.27

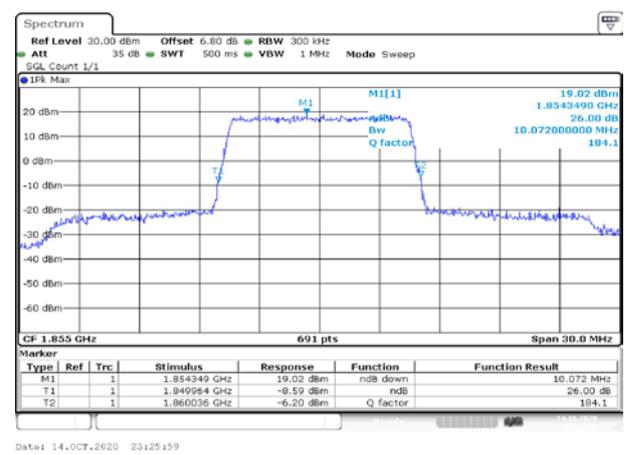


Fig.28

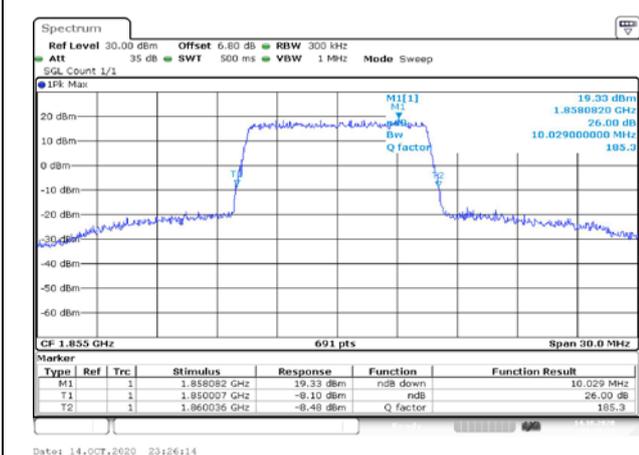


Fig.29

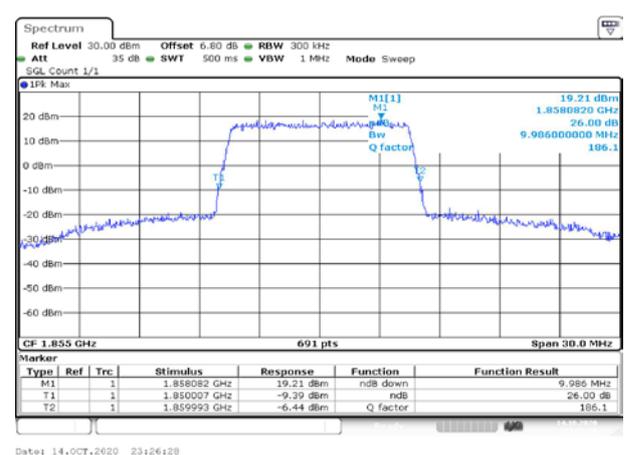


Fig.30