

APPENDIX A – TEST DATA OF CONDUCTED EMISSION

LTE Band 2

RF Power Output

Rx Power Output						
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1850.7	18607	1.4	1	0	23.36
				1	5	23.24
				3	2	22.27
				6	0	22.45
	1880	18900		1	0	23.50
				1	5	23.37
				3	2	22.37
				6	0	22.25
	1909.3	19193		1	0	23.34
				1	5	23.29
				3	2	22.37
				6	0	22.40
16QAM	1850.7	18607	1.4	1	0	22.67
				1	5	22.39
				3	2	21.50
				6	0	21.52
	1880	18900		1	0	22.55
				1	5	22.40
				3	2	21.44
				6	0	21.60
	1909.3	19193		1	0	22.95
				1	5	22.66
				3	2	21.37
				6	0	21.48
64QAM	1850.7	18607	1.4	1	0	22.53
				1	5	22.35
				3	2	21.46
				6	0	21.56
	1880	18900		1	0	22.46
				1	5	22.43
				3	2	21.37
				6	0	21.44
	1909.3	19193		1	0	22.75
				1	5	22.69
				3	2	21.36
				6	0	21.32

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1851.5	18615	3	1	0	23.46
				1	14	23.34
				8	4	22.35
				15	0	22.48
	1880	18900		1	0	23.51
				1	14	23.46
				8	4	22.41
				15	0	22.32
	1908.5	19185		1	0	23.36
				1	14	23.19
				8	4	22.44
				15	0	22.42
16QAM	1851.5	18615	3	1	0	22.59
				1	14	22.41
				8	4	21.49
				15	0	21.44
	1880	18900		1	0	22.49
				1	14	22.48
				8	4	21.55
				15	0	21.50
	1908.5	19185		1	0	22.86
				1	14	22.73
				8	4	21.49
				15	0	21.49
64QAM	1851.5	18615	3	1	0	22.61
				1	14	22.36
				8	4	21.38
				15	0	21.51
	1880	18900		1	0	22.44
				1	14	22.50
				8	4	21.44
				15	0	21.45
	1908.5	19185		1	0	22.81
				1	14	22.70
				8	4	21.39
				15	0	21.44

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1852.5	18625	5	1	0	23.39
				1	24	23.36
				12	6	22.29
				25	0	22.44
	1880	18900		1	0	23.43
				1	24	23.42
				12	6	22.41
				25	0	22.29
	1907.5	19175		1	0	23.37
				1	24	23.20
				12	6	22.37
				25	0	22.39
16QAM	1852.5	18625	5	1	0	22.54
				1	24	22.37
				12	6	21.50
				25	0	21.52
	1880	18900		1	0	22.44
				1	24	22.55
				12	6	21.53
				25	0	21.61
	1907.5	19175		1	0	22.90
				1	24	22.65
				12	6	21.49
				25	0	21.51
64QAM	1852.5	18625	5	1	0	22.59
				1	24	22.31
				12	6	21.48
				25	0	21.45
	1880	18900		1	0	22.43
				1	24	22.46
				12	6	21.40
				25	0	21.48
	1907.5	19175		1	0	22.86
				1	24	22.68
				12	6	21.43
				25	0	21.36

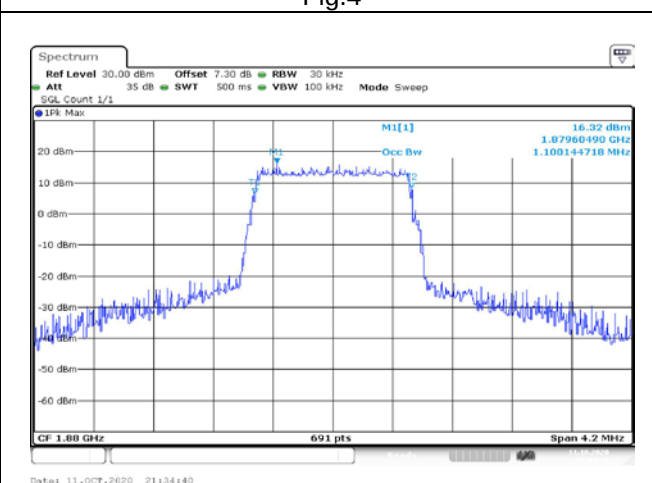
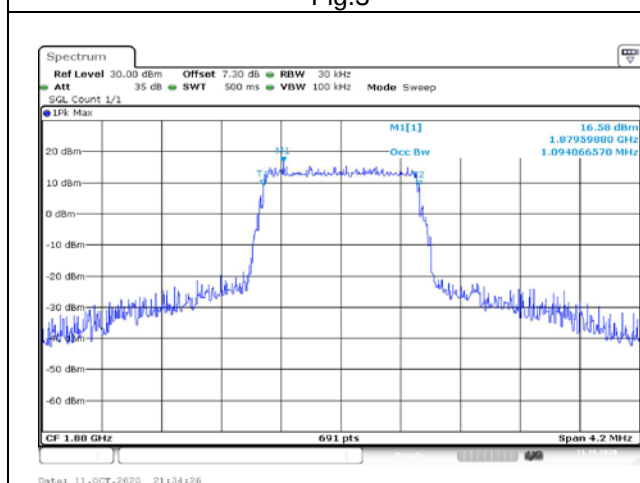
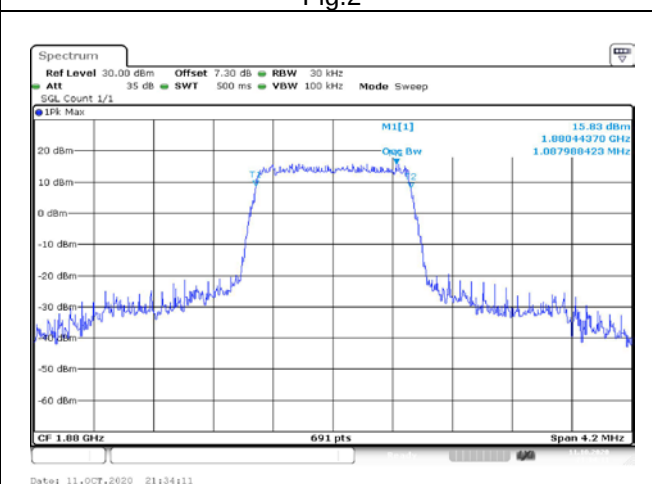
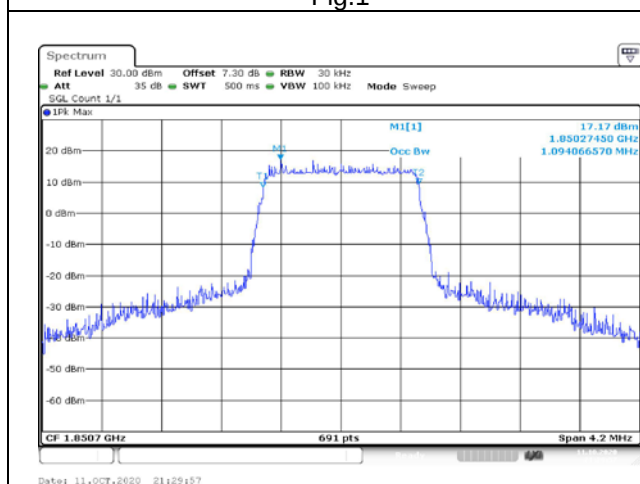
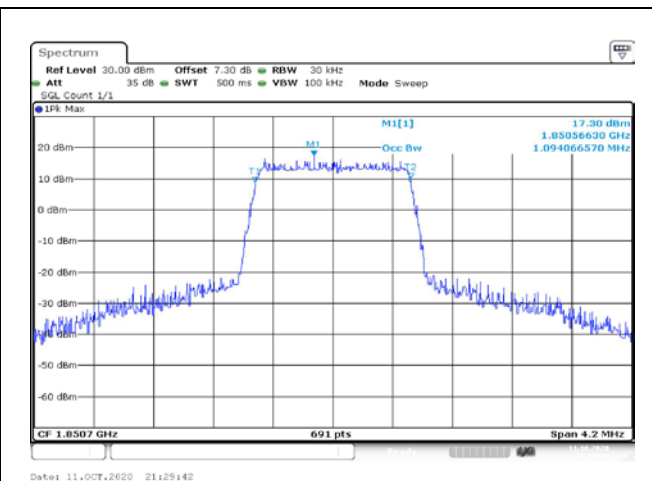
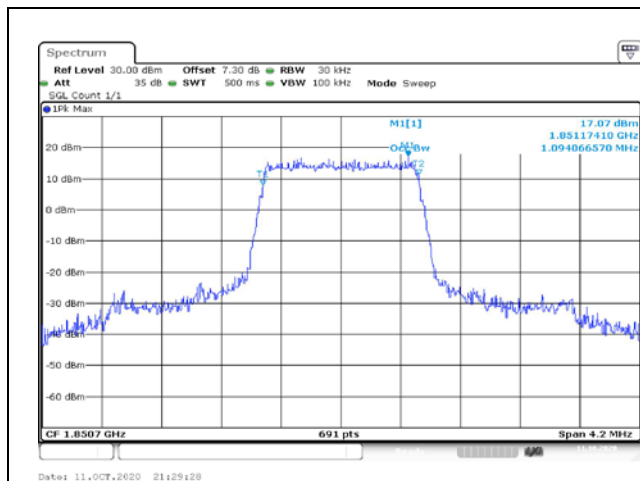
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1855	18650	10	1	0	23.50
				1	49	23.35
				24	12	22.34
				50	0	22.48
	1880	18900		1	0	23.49
				1	49	23.46
				24	12	22.38
				50	0	22.29
	1905	19150		1	0	23.40
				1	49	23.31
				24	12	22.42
				50	0	22.30
16QAM	1855	18650	10	1	0	22.55
				1	49	22.33
				24	12	21.53
				50	0	21.46
	1880	18900		1	0	22.51
				1	49	22.53
				24	12	21.41
				50	0	21.57
	1905	19150		1	0	22.90
				1	49	22.70
				24	12	21.46
				50	0	21.46
64QAM	1855	18650	10	1	0	22.61
				1	49	22.36
				24	12	21.47
				50	0	21.51
	1880	18900		1	0	22.43
				1	49	22.42
				24	12	21.45
				50	0	21.45
	1905	19150		1	0	22.82
				1	49	22.74
				24	12	21.35
				50	0	21.32

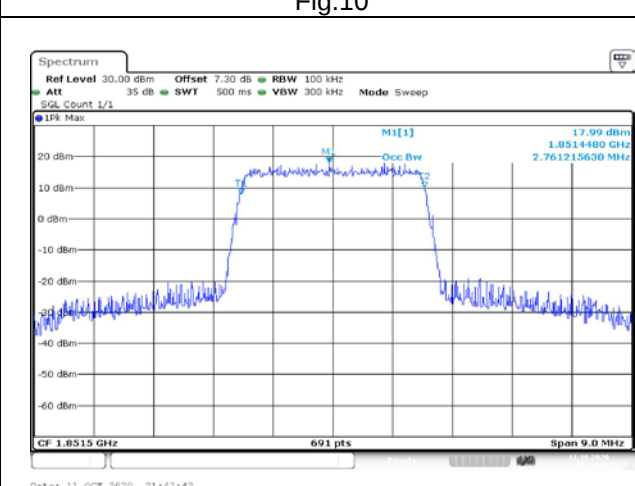
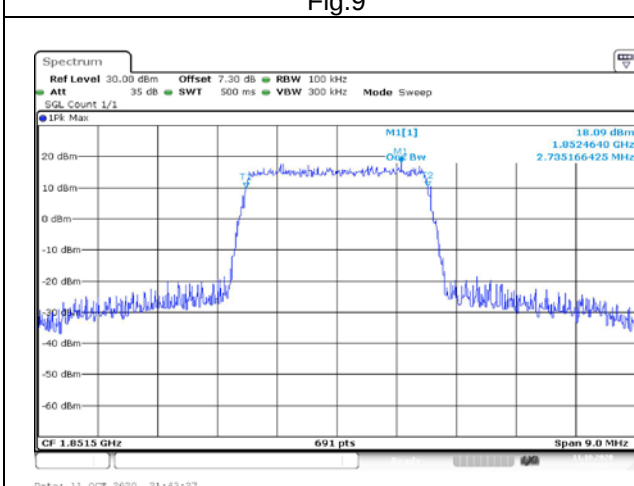
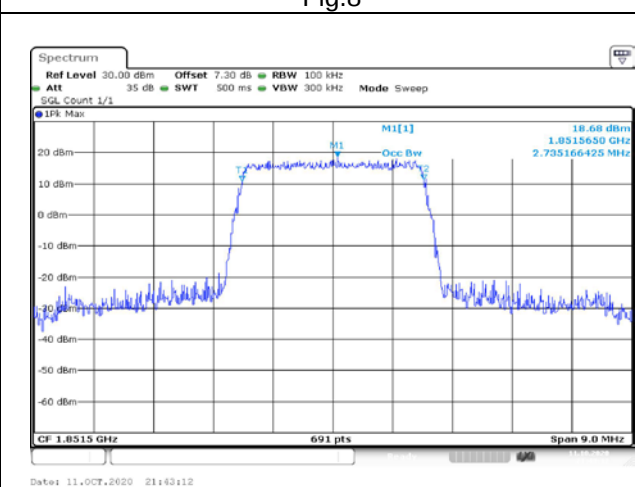
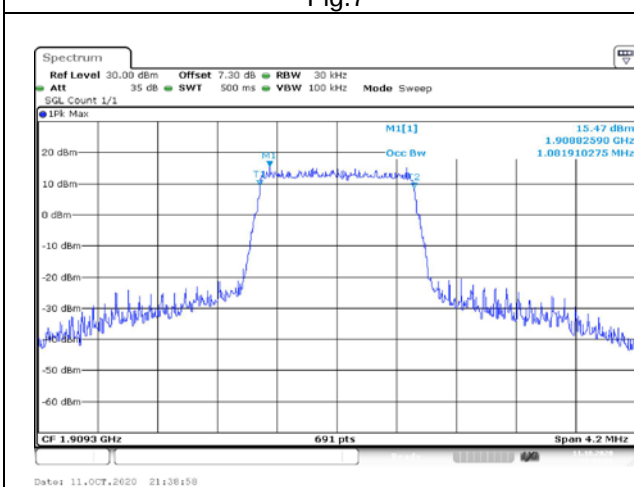
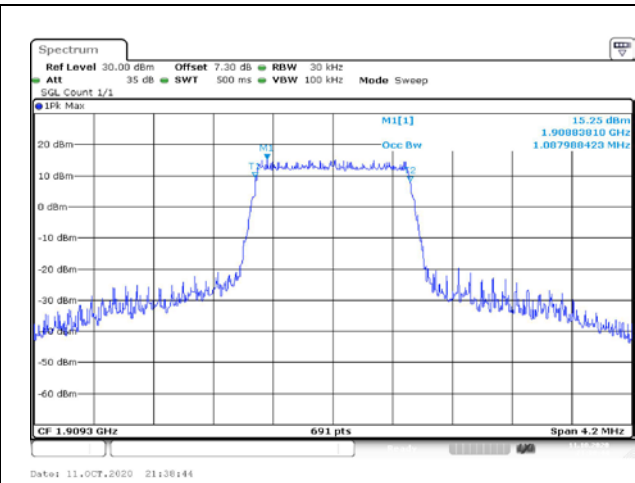
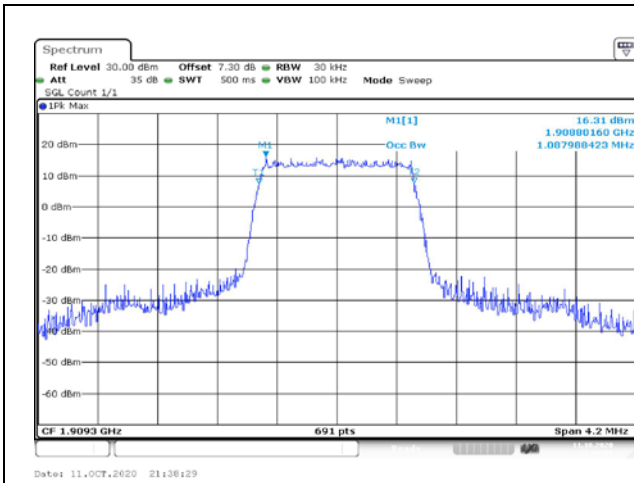
Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1857.5	18675	15	1	0	23.45
				1	74	23.37
				40	18	22.24
				75	0	22.52
	1880	18900		1	0	23.52
				1	74	23.48
				40	18	22.33
				75	0	22.29
	1902.5	19125		1	0	23.37
				1	74	23.19
				40	18	22.38
				75	0	22.32
16QAM	1857.5	18675	15	1	0	22.58
				1	74	22.36
				40	18	21.51
				75	0	21.56
	1880	18900		1	0	22.56
				1	74	22.55
				40	18	21.41
				75	0	21.52
	1902.5	19125		1	0	22.92
				1	74	22.78
				40	18	21.40
				75	0	21.53
64QAM	1857.5	18675	15	1	0	22.57
				1	74	22.29
				40	18	21.44
				75	0	21.42
	1880	18900		1	0	22.53
				1	74	22.51
				40	18	21.45
				75	0	21.41
	1902.5	19125		1	0	22.86
				1	74	22.74
				40	18	21.36
				75	0	21.34

Modulation	Carrier frequency (MHz)	UL Channel	BW	RB Size	RB Offset	Conducted power (dBm)
QPSK	1860	18700	20	1	0	23.51
				1	99	23.37
				50	25	22.39
				100	0	22.52
	1880	18900		1	0	23.57
				1	99	23.52
				50	25	22.42
				100	0	22.39
	1900	19100		1	0	23.43
				1	99	23.32
				50	25	22.48
				100	0	22.42
16QAM	1860	18700	20	1	0	22.69
				1	99	22.48
				50	25	21.59
				100	0	21.57
	1880	18900		1	0	22.57
				1	99	22.55
				50	25	21.56
				100	0	21.62
	1900	19100		1	0	22.95
				1	99	22.79
				50	25	21.52
				100	0	21.58
64QAM	1860	18700	20	1	0	22.67
				1	99	22.43
				50	25	21.52
				100	0	21.56
	1880	18900		1	0	22.56
				1	99	22.52
				50	25	21.47
				100	0	21.53
	1900	19100		1	0	22.86
				1	99	22.78
				50	25	21.49
				100	0	21.46

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
	1880.0	18900		6	0	1.088	Fig.4	1.094	Fig.5	1.100	Fig.6
	1909.3	19193		6	0	1.088	Fig.7	1.088	Fig.8	1.082	Fig.9
	1851.5	18615	3	15	0	2.735	Fig.10	2.735	Fig.11	2.761	Fig.12
	1880.0	18900		15	0	2.735	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
	1880.0	18900		25	0	4.515	Fig.22	4.493	Fig.23	4.515	Fig.24
	1907.5	19175		25	0	4.515	Fig.25	4.515	Fig.26	4.515	Fig.27
	1855	18650	10	50	0	9.074	Fig.28	9.074	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	9.074	Fig.34	9.074	Fig.35	9.074	Fig.36
	1857.5	18675	15	75	0	13.480	Fig.37	13.480	Fig.38	13.415	Fig.39
	1880.0	18900		75	0	13.480	Fig.40	13.546	Fig.41	13.480	Fig.42
	1902.5	19125		75	0	13.480	Fig.43	13.415	Fig.44	13.480	Fig.45
	1860	18700	20	100	0	17.974	Fig.46	17.887	Fig.47	17.887	Fig.48
	1880	18900		100	0	17.974	Fig.49	17.974	Fig.50	17.974	Fig.51
	1900	19100		100	0	17.974	Fig.52	17.887	Fig.53	17.887	Fig.54





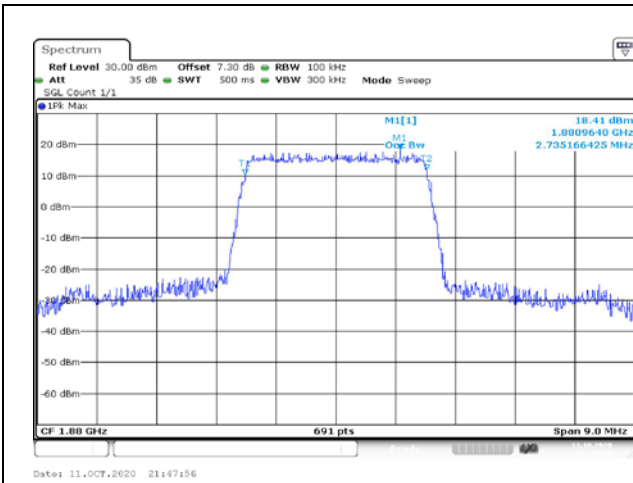


Fig.13

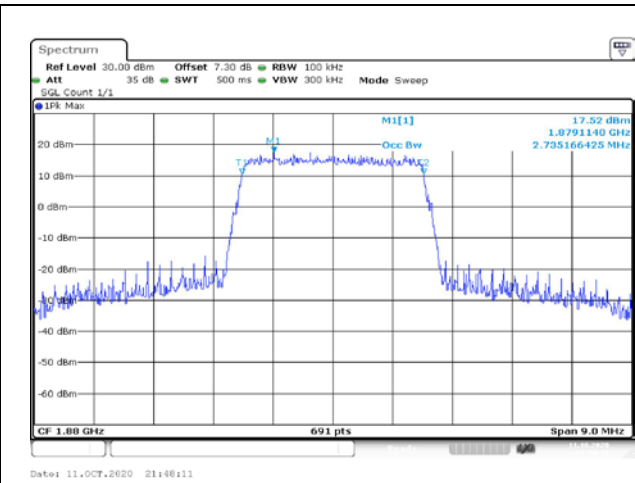


Fig.14

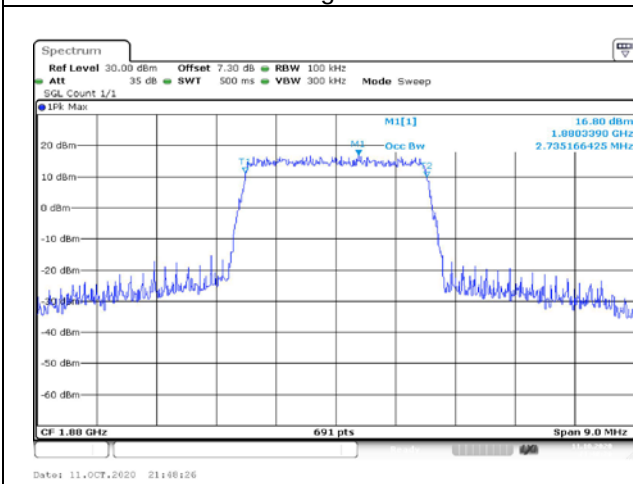


Fig.15

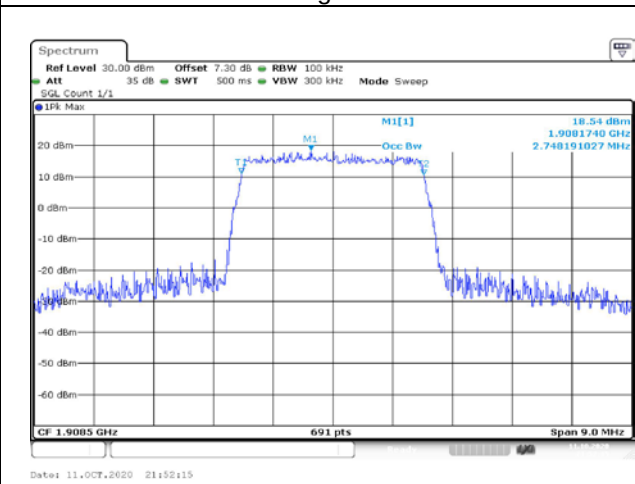


Fig.16

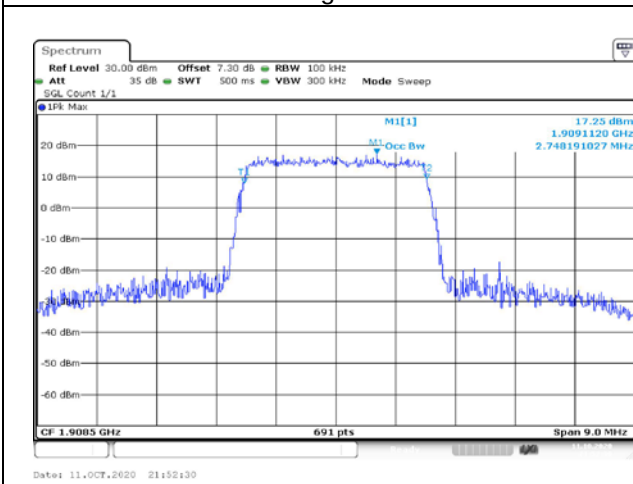


Fig.17

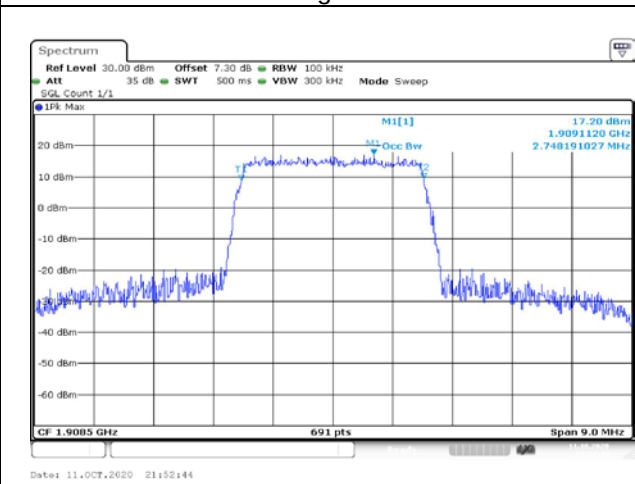


Fig.18

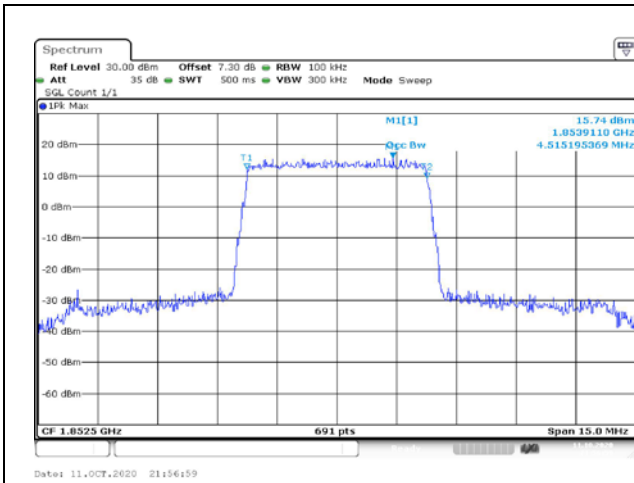


Fig.19

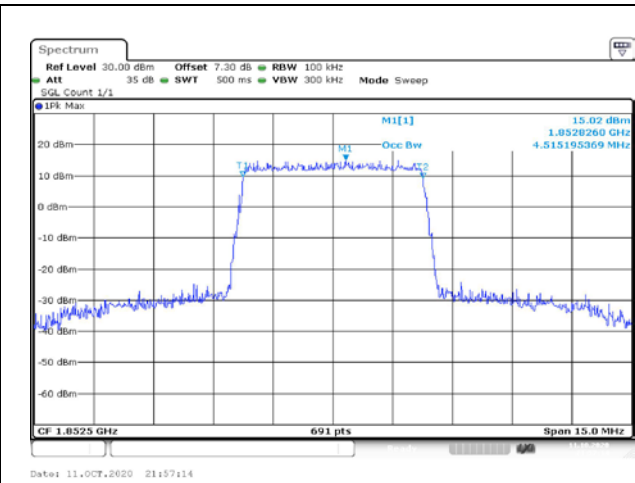


Fig.20

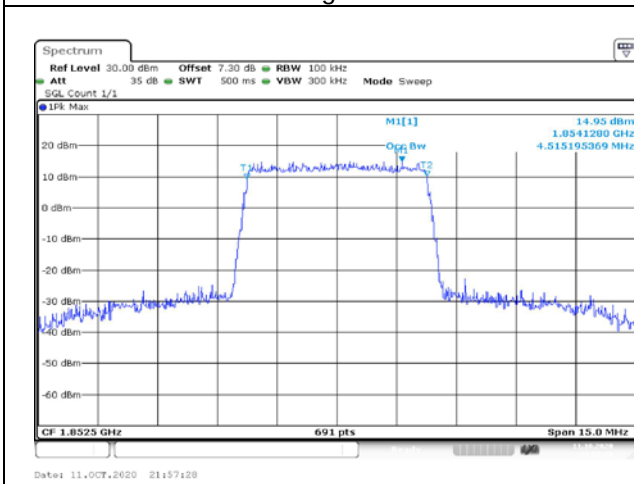


Fig.21

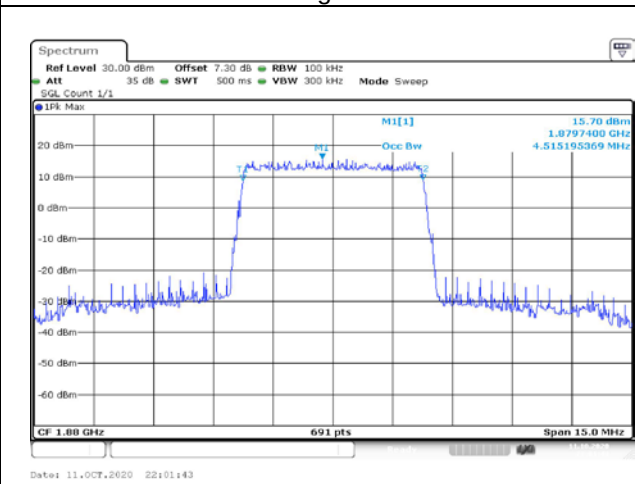


Fig.22

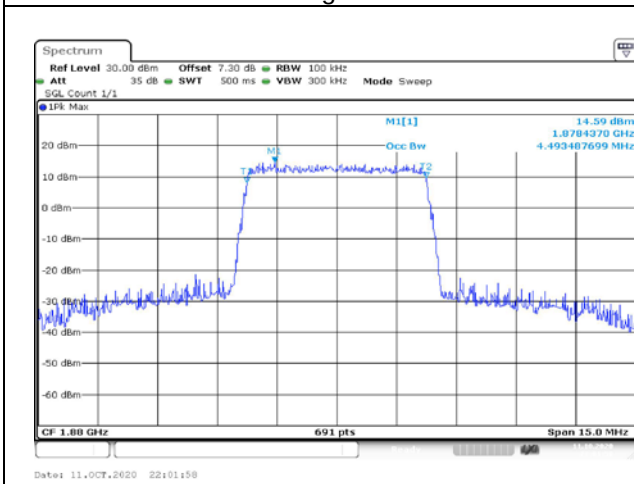


Fig.23

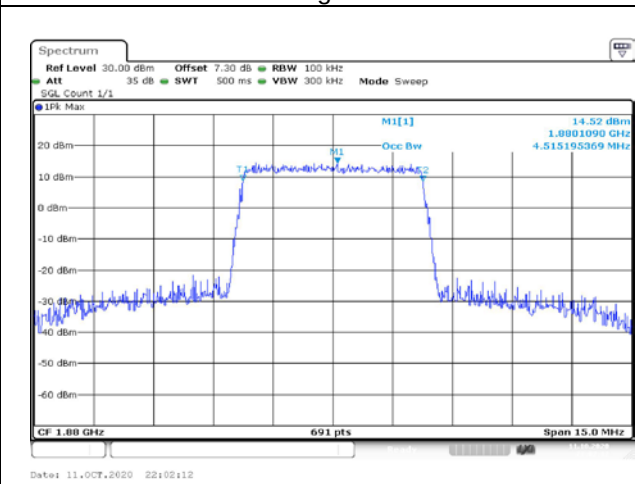


Fig.24

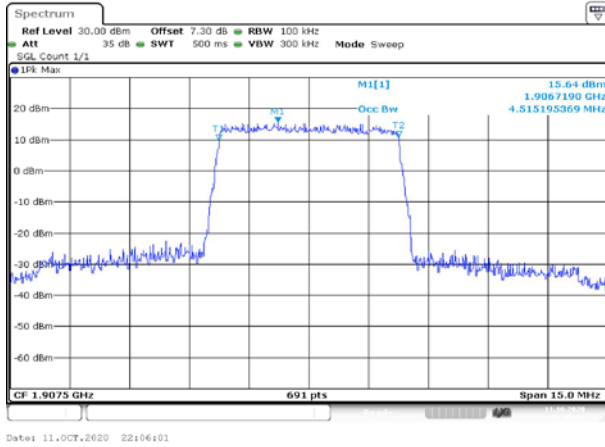


Fig.25

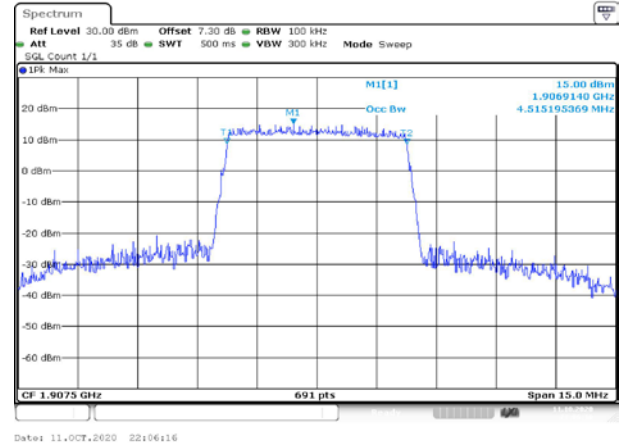


Fig.26

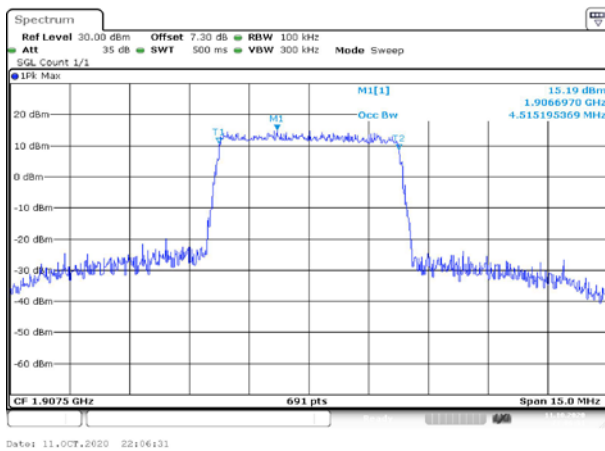


Fig.27

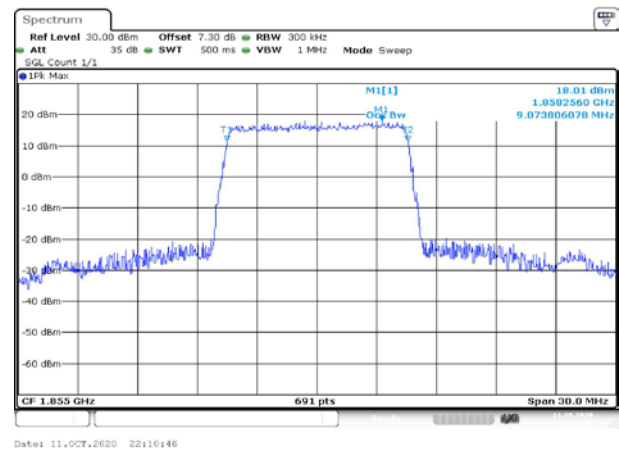


Fig.28

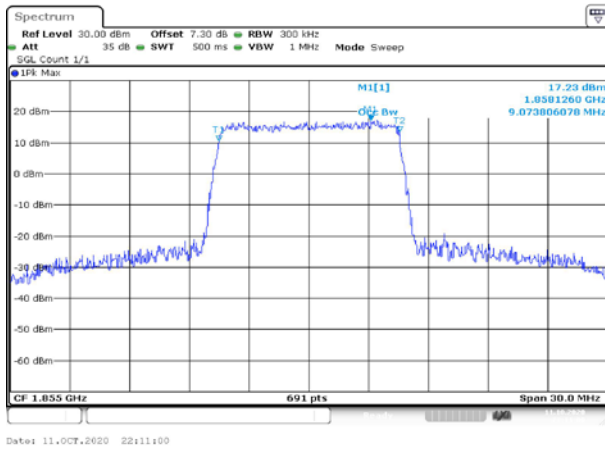


Fig.29

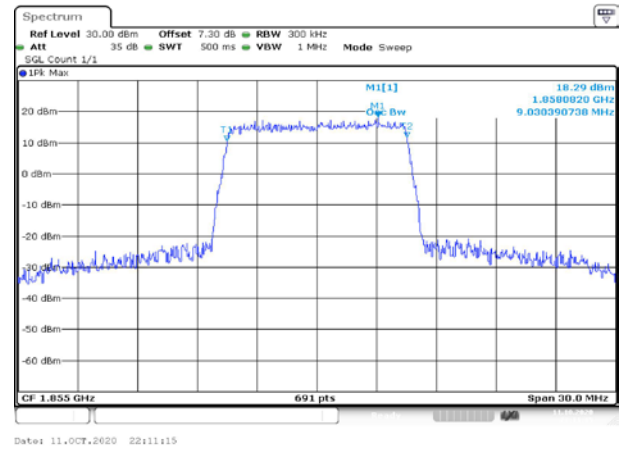


Fig.30

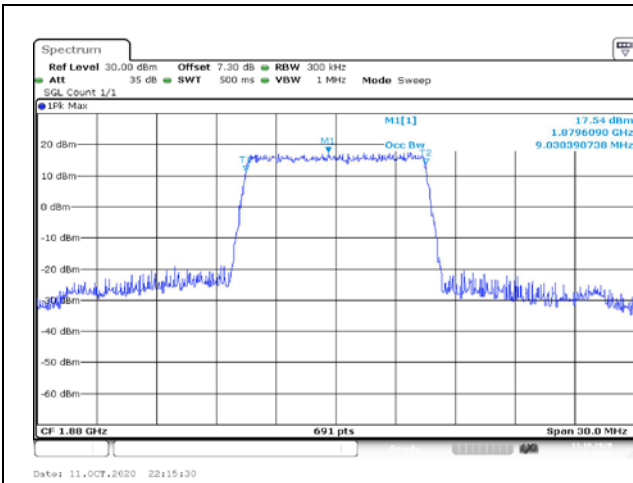


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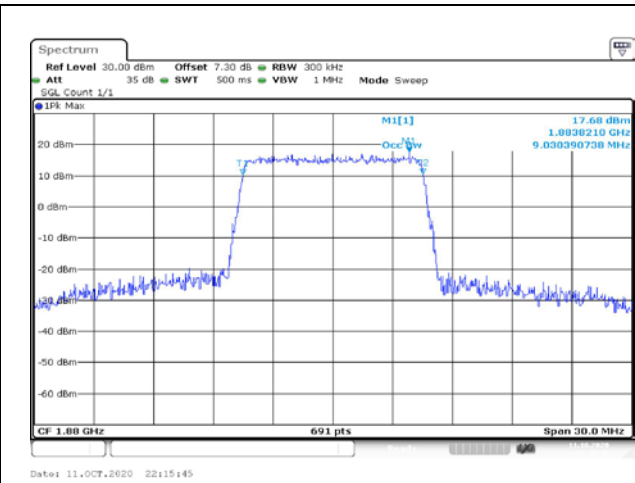


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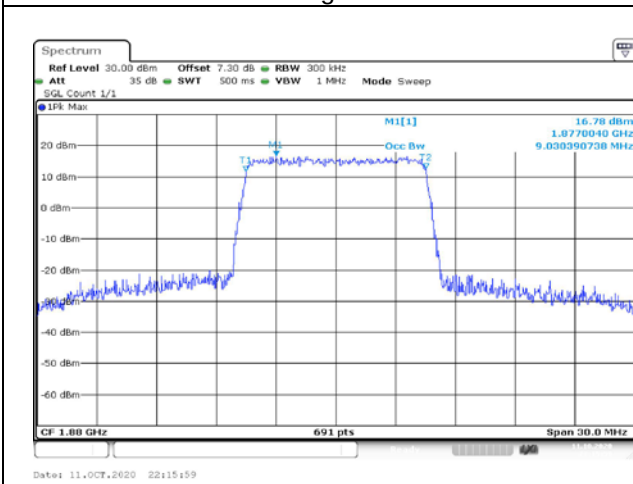


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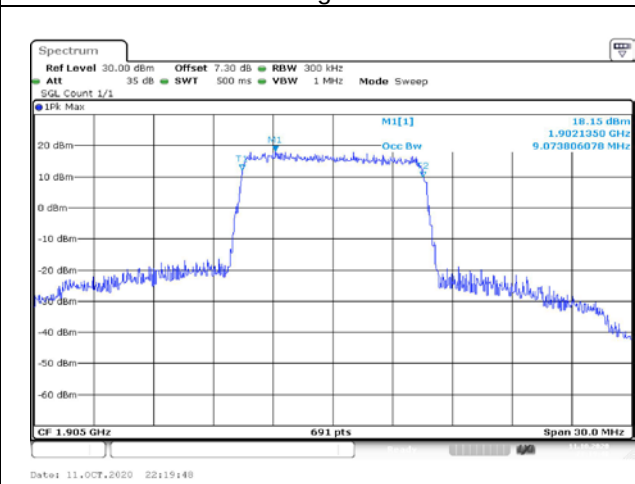


Fig.34

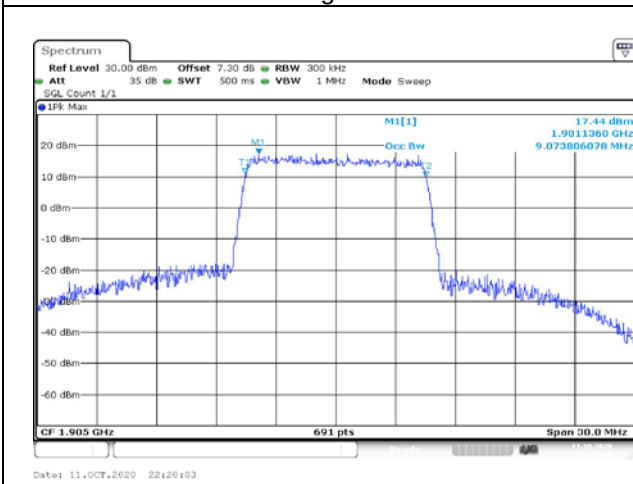


Fig.35

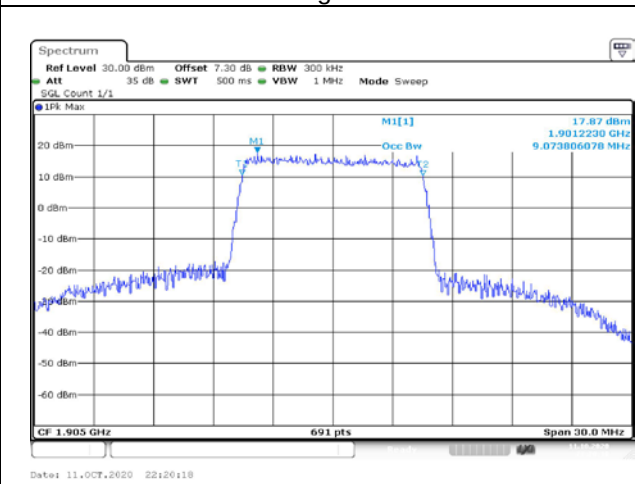


Fig.36

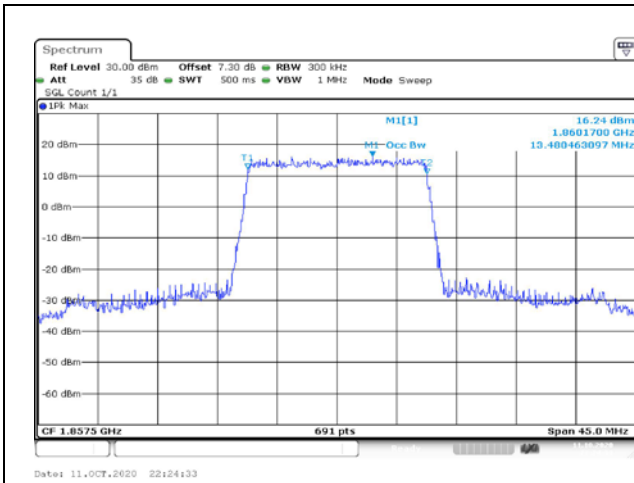


Fig.37

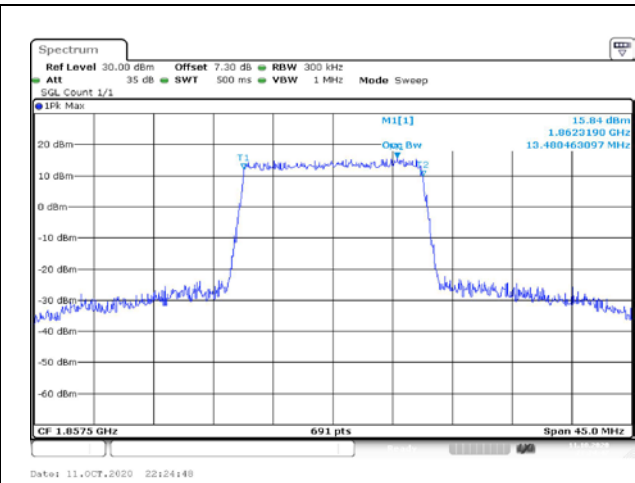


Fig.38

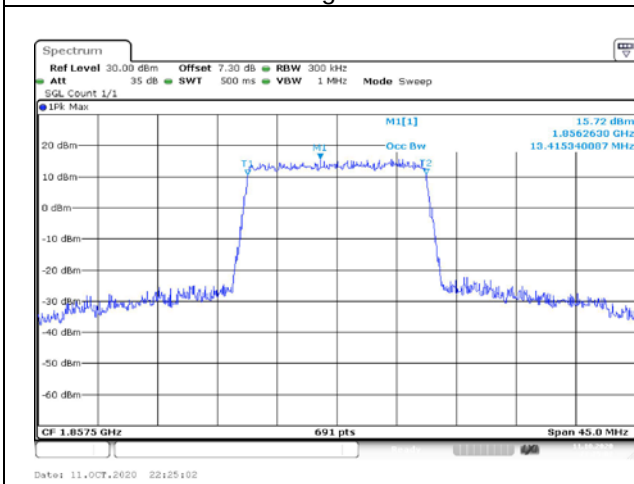


Fig.39

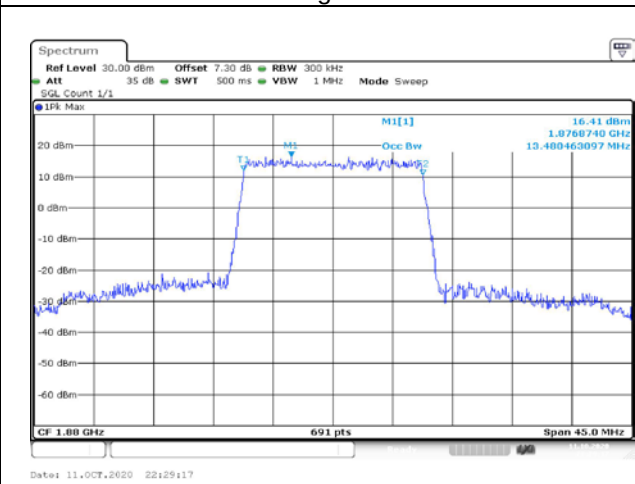


Fig.40

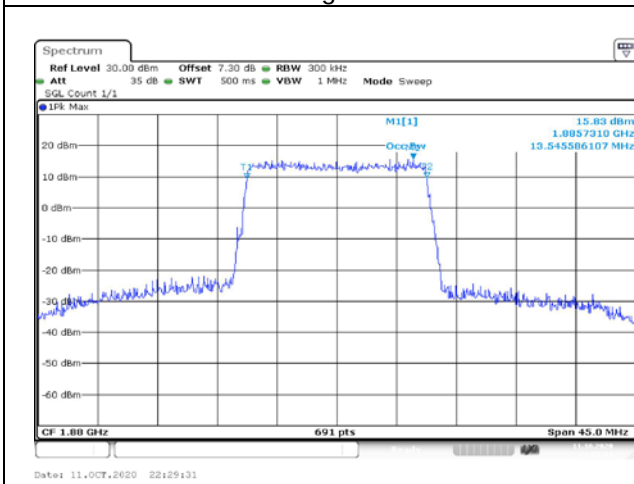


Fig.41

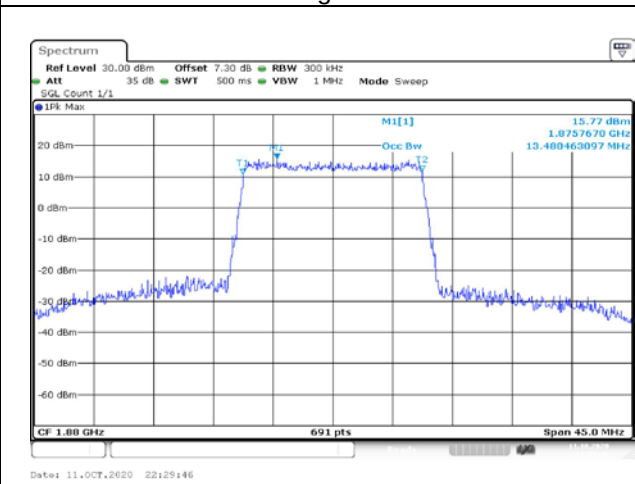


Fig.42

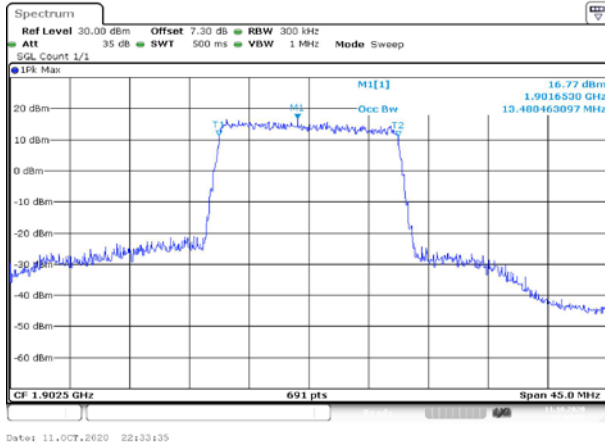


Fig.43

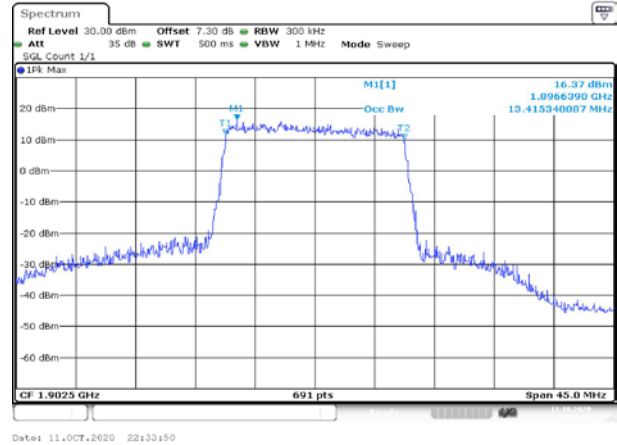


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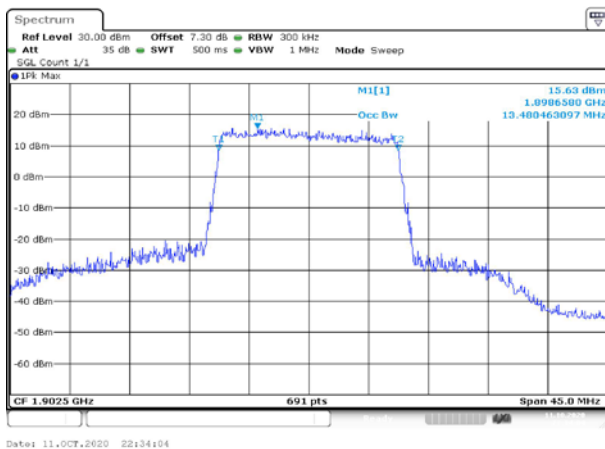


Fig.45

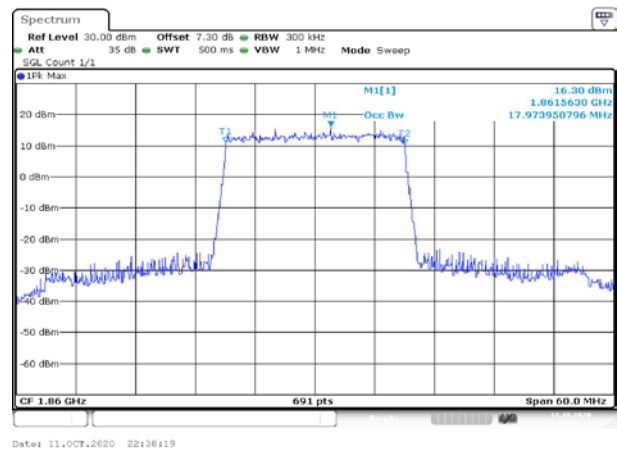


Fig.46

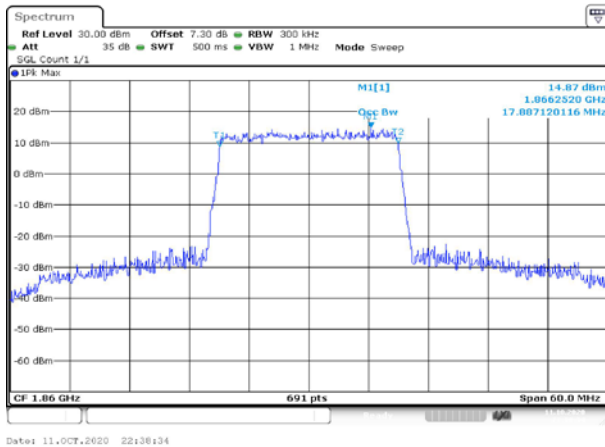


Fig.47

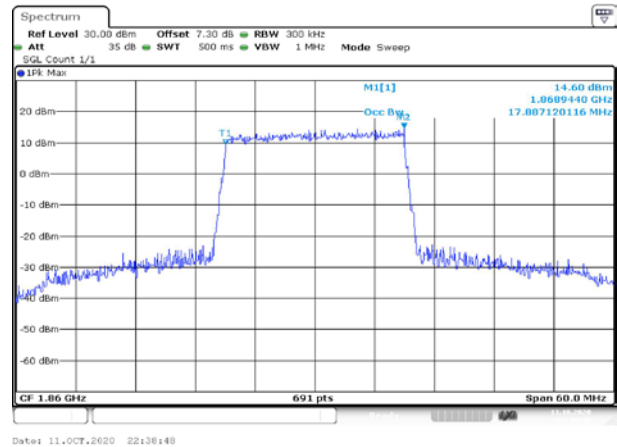


Fig.48

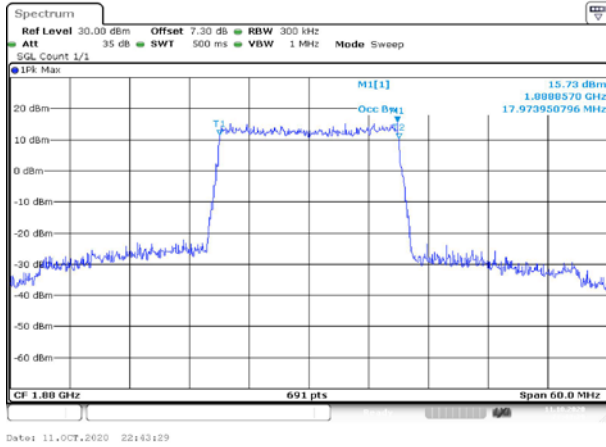


Fig.49

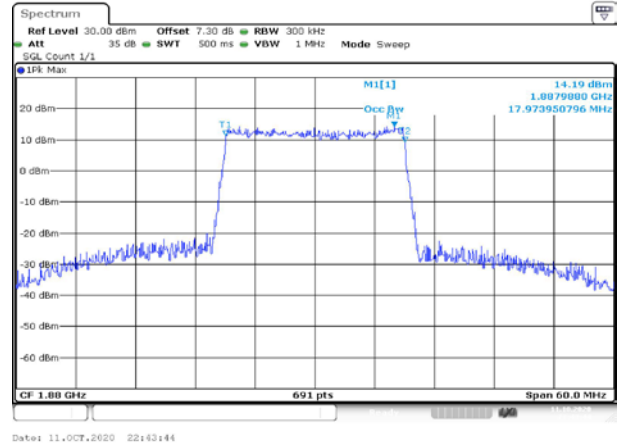


Fig.50

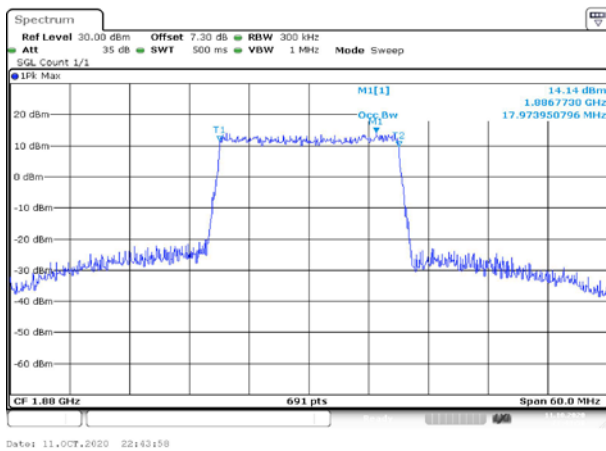


Fig.51

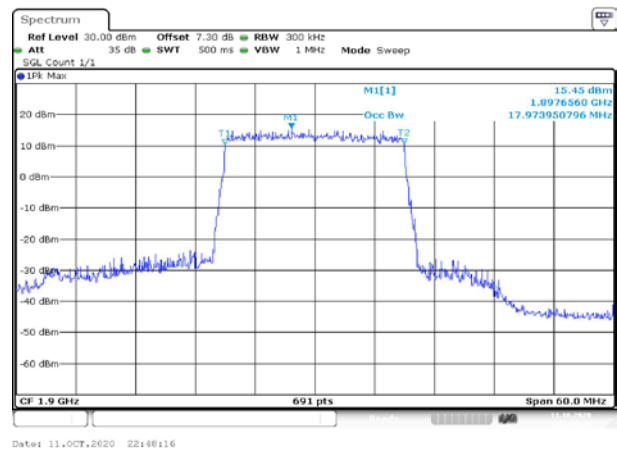


Fig.52

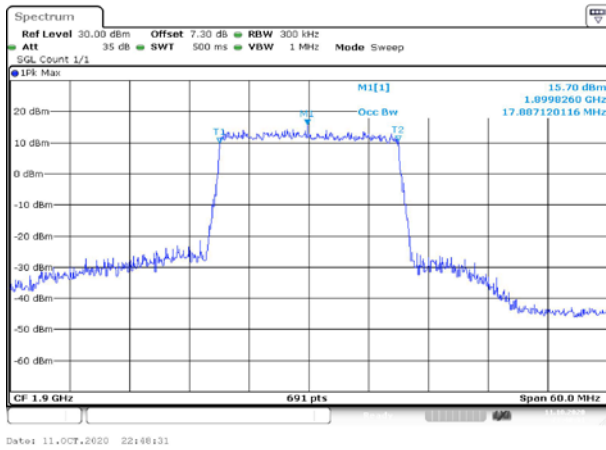


Fig.53

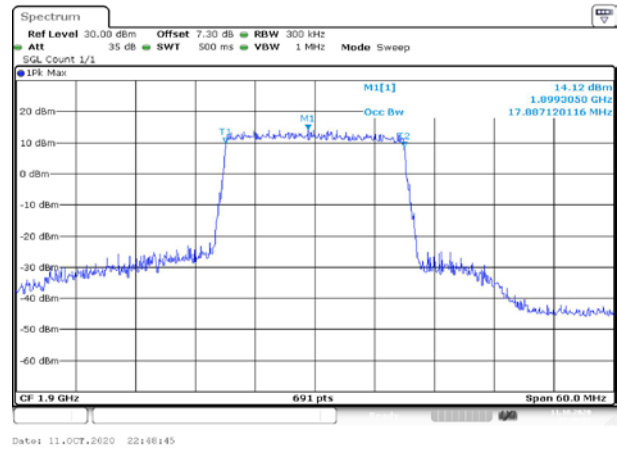
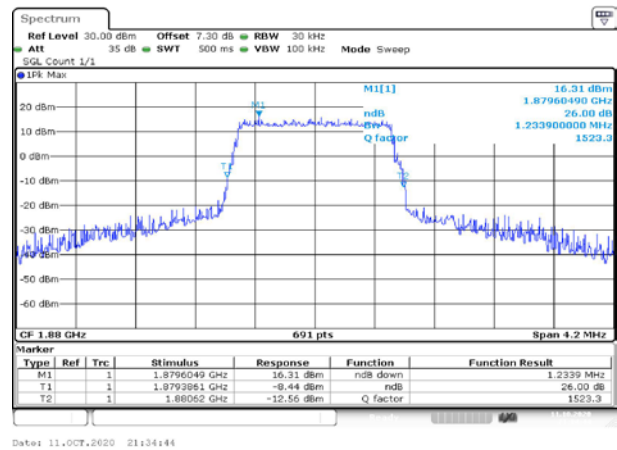
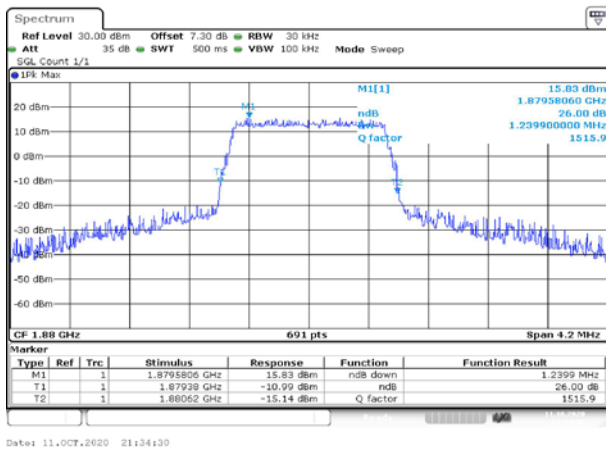
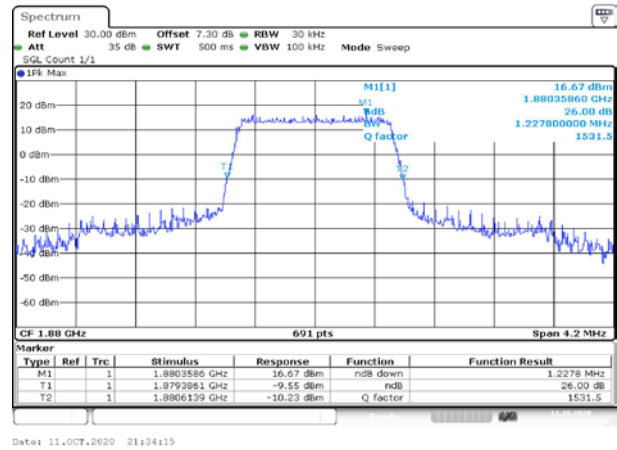
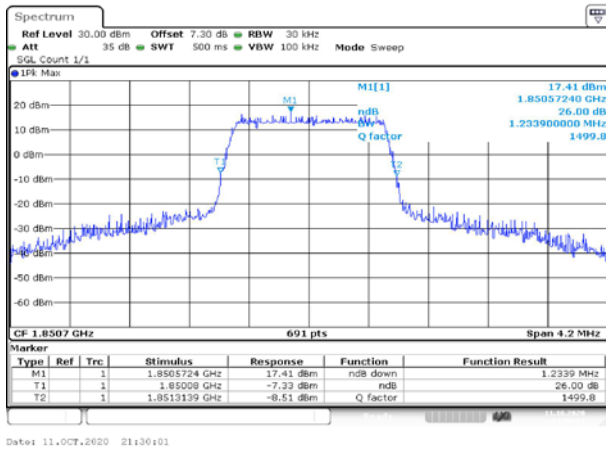
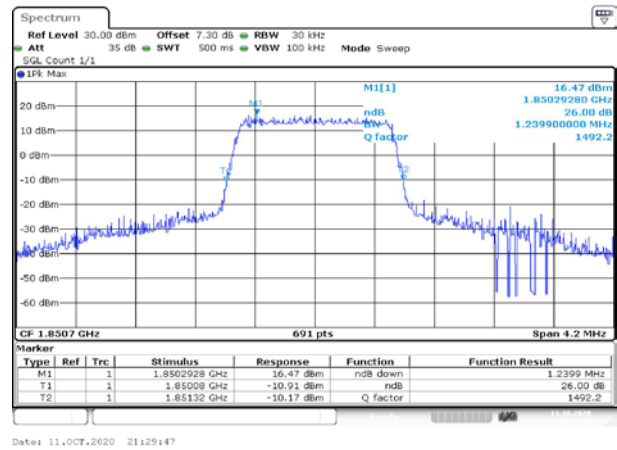
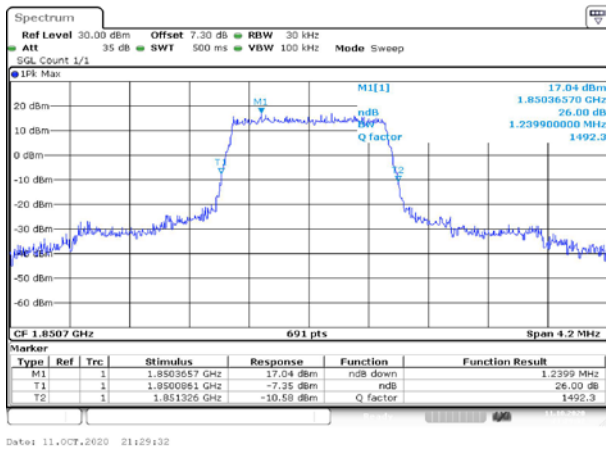


Fig.54

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	1.240	Fig.1	1.240	Fig.2	1.234	Fig.3
	1880	18900		6	0	1.228	Fig.4	1.240	Fig.5	1.234	Fig.6
	1909.3	19193		6	0	1.240	Fig.7	1.240	Fig.8	1.240	Fig.9
	1851.5	18615	3	15	0	3.061	Fig.10	3.061	Fig.11	3.074	Fig.12
	1880	18900		15	0	3.061	Fig.13	3.087	Fig.14	3.087	Fig.15
	1908.5	19185		15	0	3.087	Fig.16	3.048	Fig.17	3.113	Fig.18
	1852.5	18625	5	25	0	4.928	Fig.19	4.971	Fig.20	4.949	Fig.21
	1880	18900		25	0	4.928	Fig.22	4.949	Fig.23	4.949	Fig.24
	1907.5	19175		25	0	4.928	Fig.25	4.971	Fig.26	4.928	Fig.27
	1855	18650	10	50	0	9.899	Fig.28	10.029	Fig.29	9.986	Fig.30
	1880	18900		50	0	9.986	Fig.31	9.899	Fig.32	9.899	Fig.33
	1905	19150		50	0	10.029	Fig.34	10.072	Fig.35	10.029	Fig.36
	1857.5	18675	15	75	0	14.848	Fig.37	14.913	Fig.38	14.848	Fig.39
	1880	18900		75	0	14.783	Fig.40	14.848	Fig.41	14.848	Fig.42
	1902.5	19125		75	0	14.848	Fig.43	14.783	Fig.44	14.718	Fig.45
	1860	18700	20	100	0	19.190	Fig.46	19.537	Fig.47	19.450	Fig.48
	1880	18900		100	0	19.537	Fig.49	19.624	Fig.50	19.624	Fig.51
	1900	19100		100	0	19.450	Fig.52	19.276	Fig.53	19.450	Fig.54



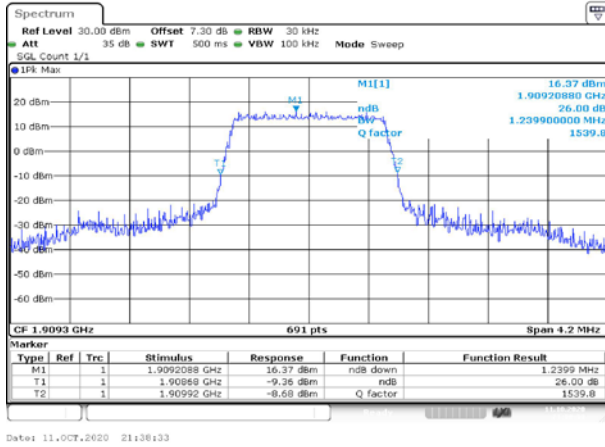


Fig.7

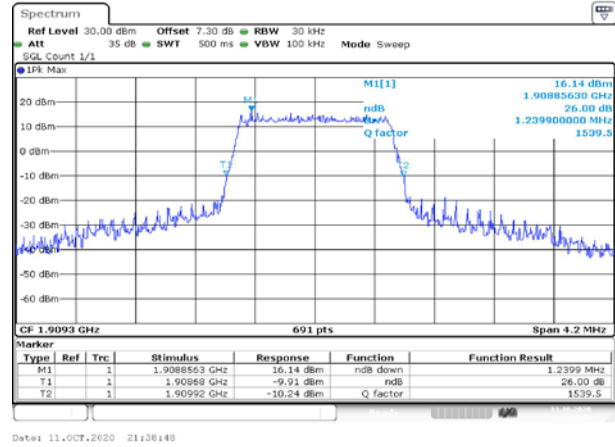


Fig.8

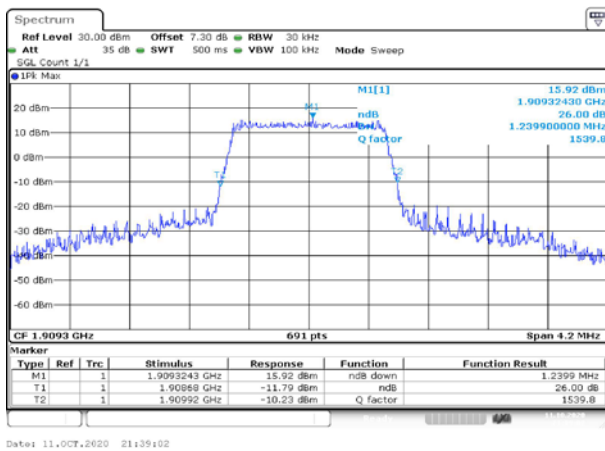


Fig.9

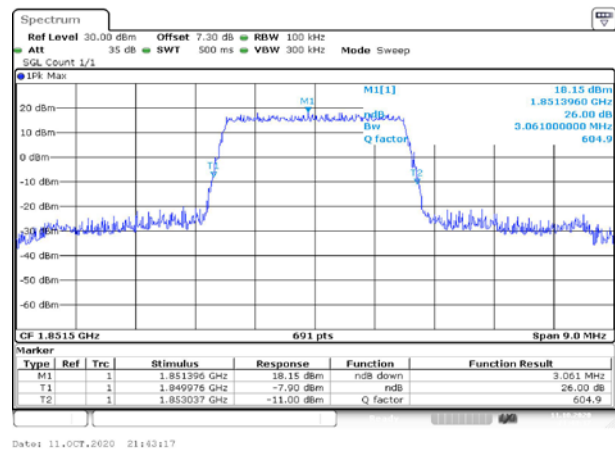


Fig.10

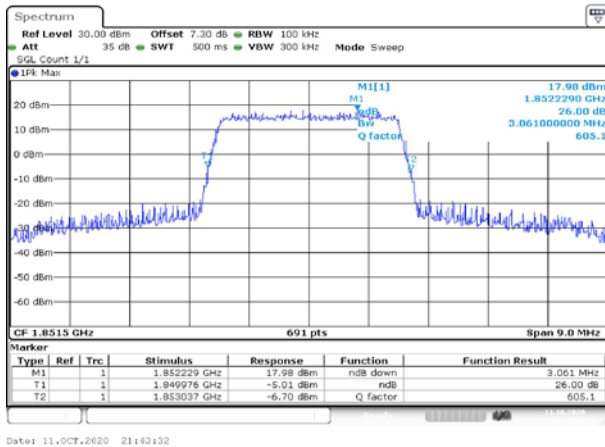


Fig.11

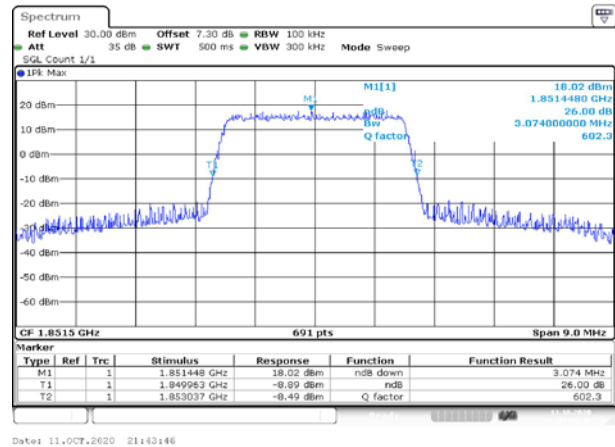


Fig.12

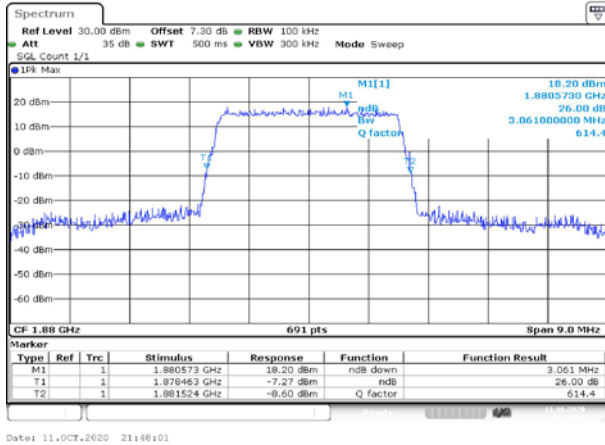


Fig.13

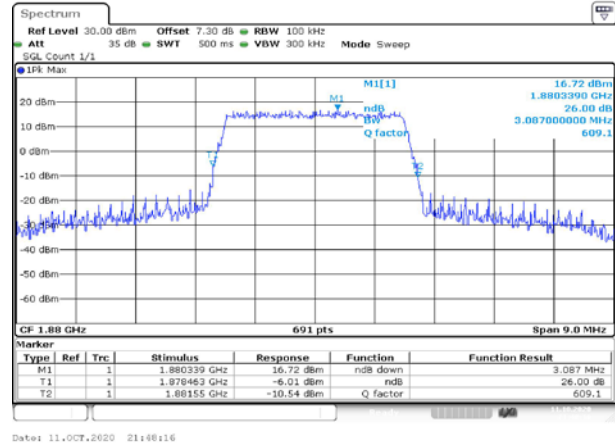


Fig.14

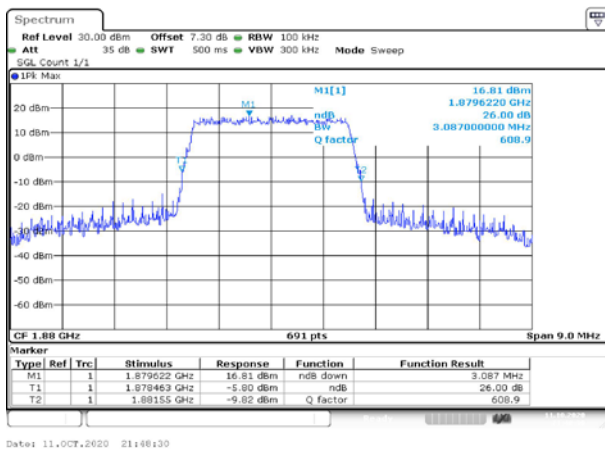


Fig.15

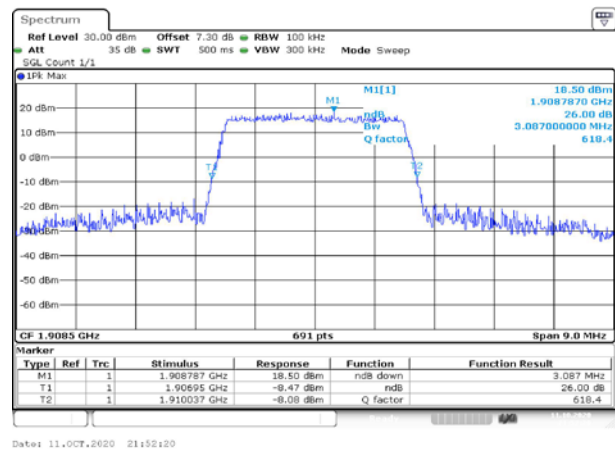


Fig.16

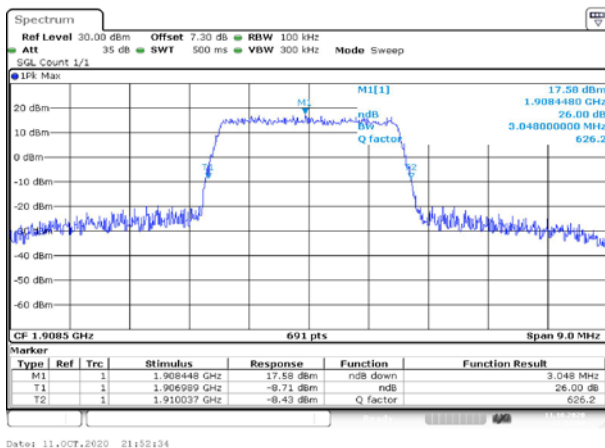


Fig.17

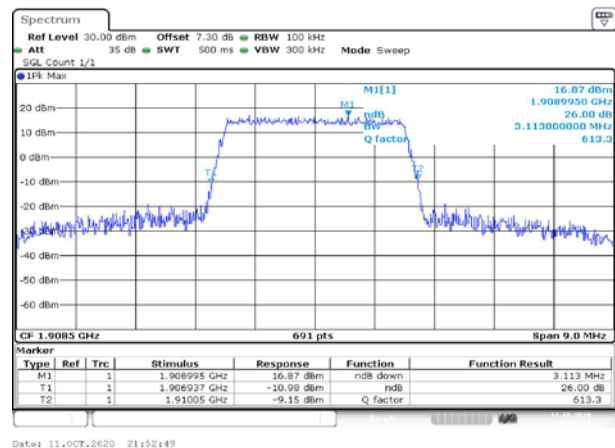


Fig.18

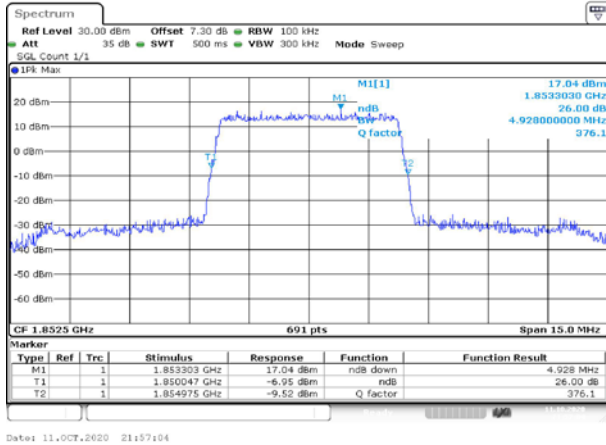


Fig.19

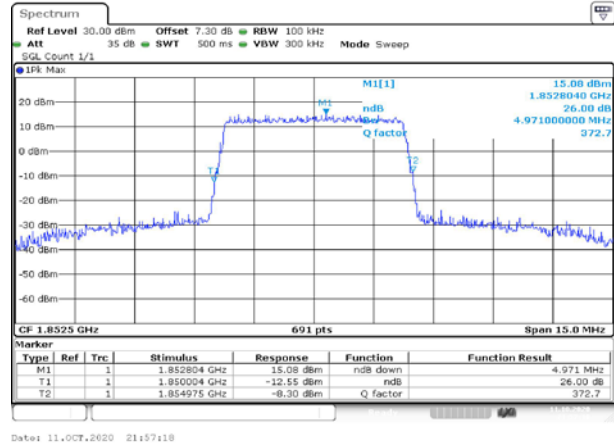


Fig.20

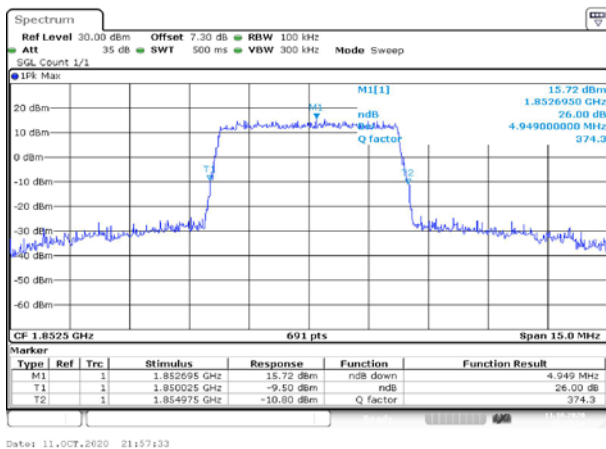


Fig.21

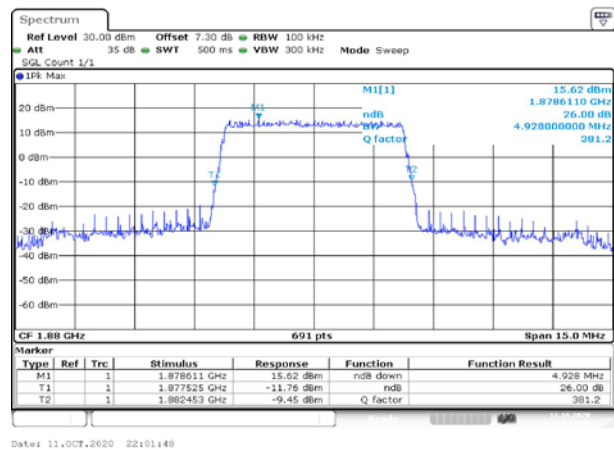


Fig.22

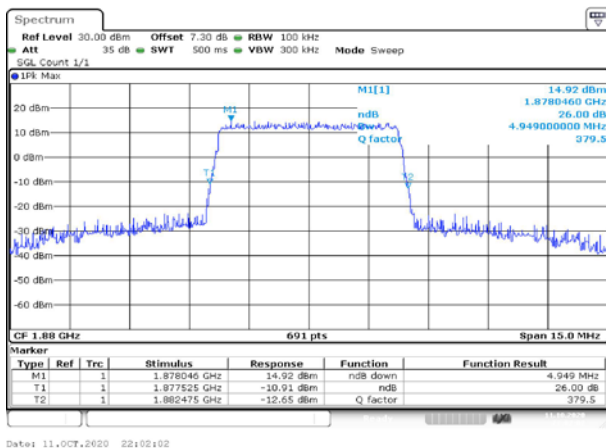


Fig.23

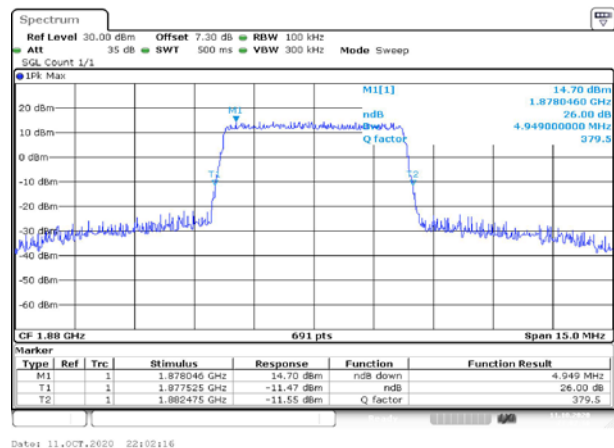


Fig.24

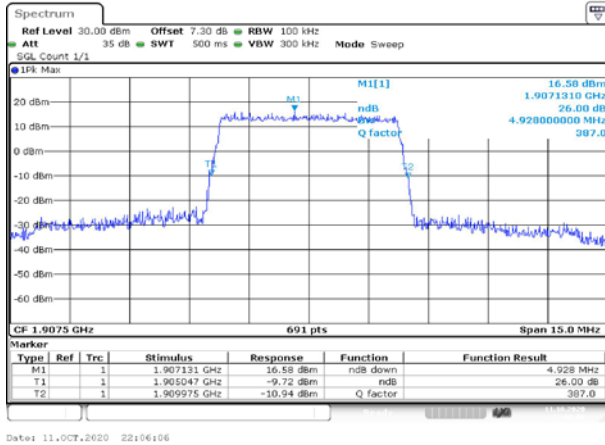


Fig.25

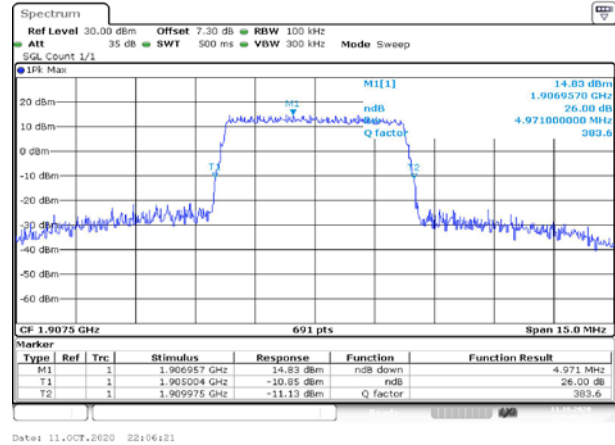


Fig.26

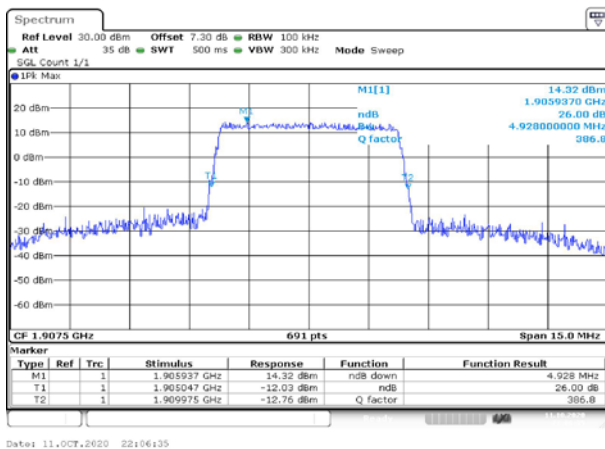


Fig.27

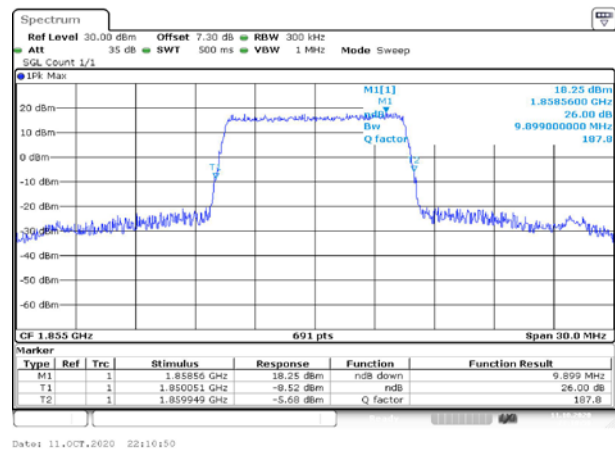


Fig.28

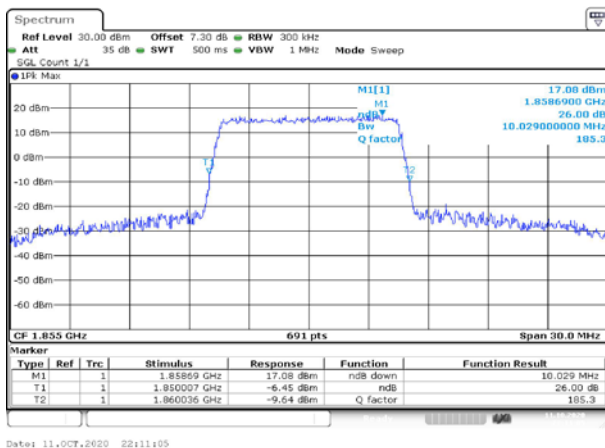


Fig.29

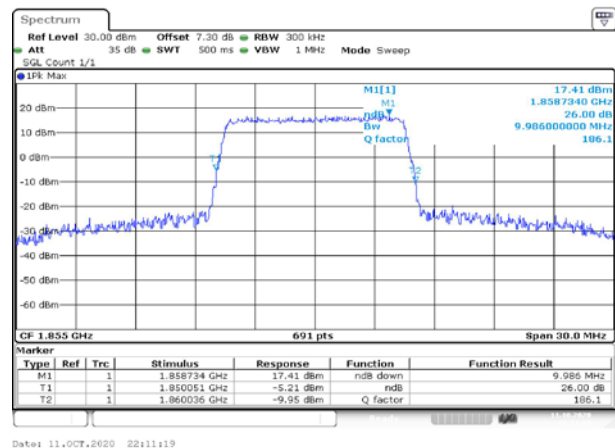


Fig.30