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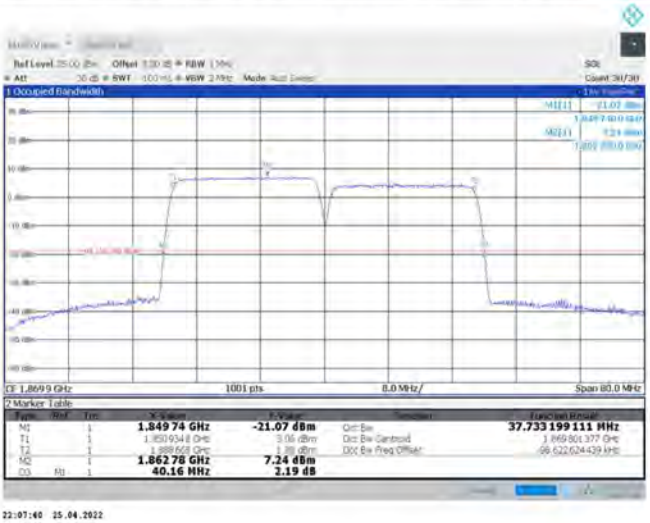

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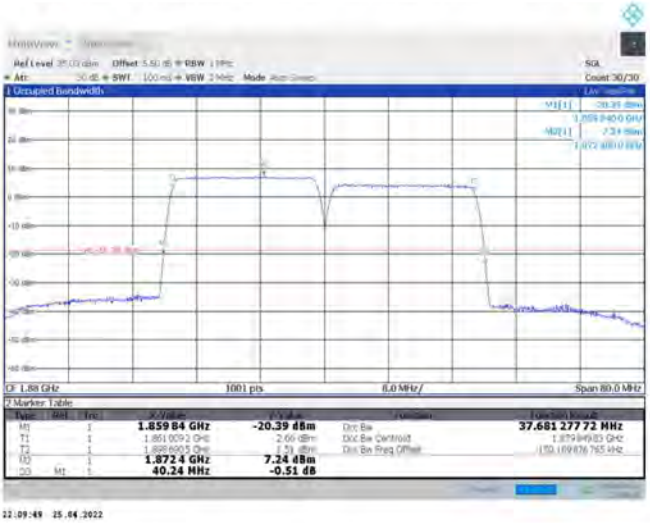

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2-2-20MHz-20MHz-64QAM-64QAM-18902-19100-100RB#0-100RB#0

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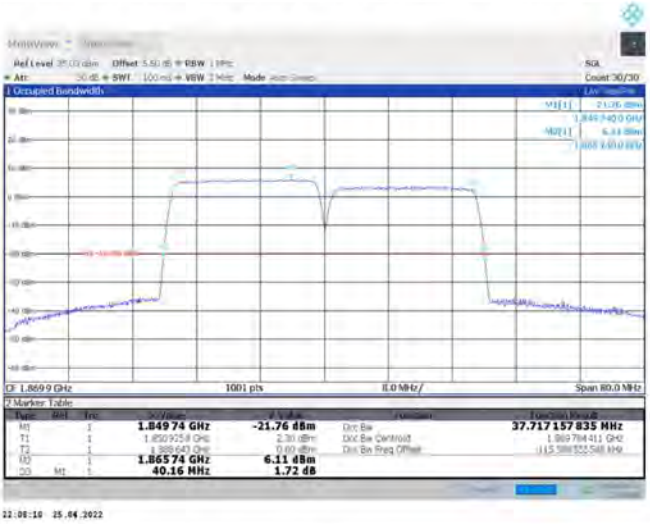

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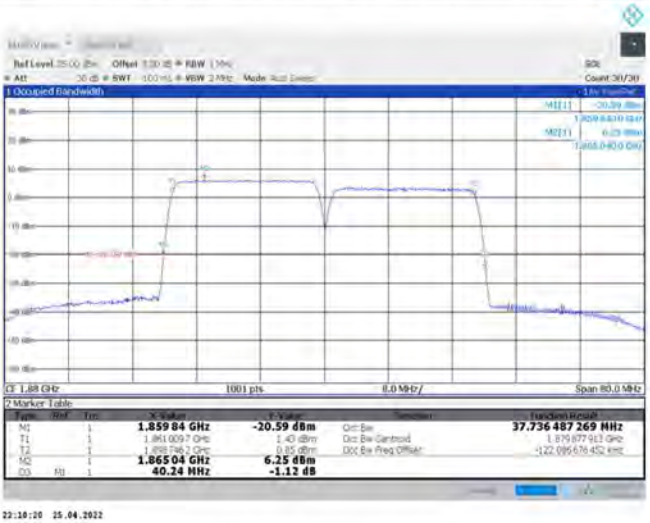

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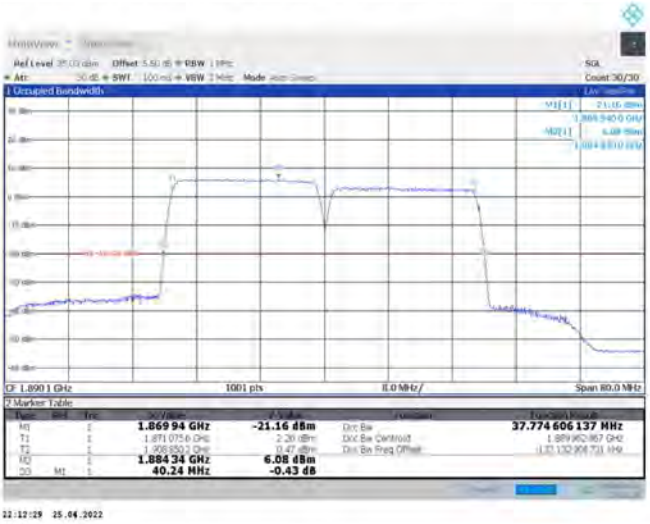

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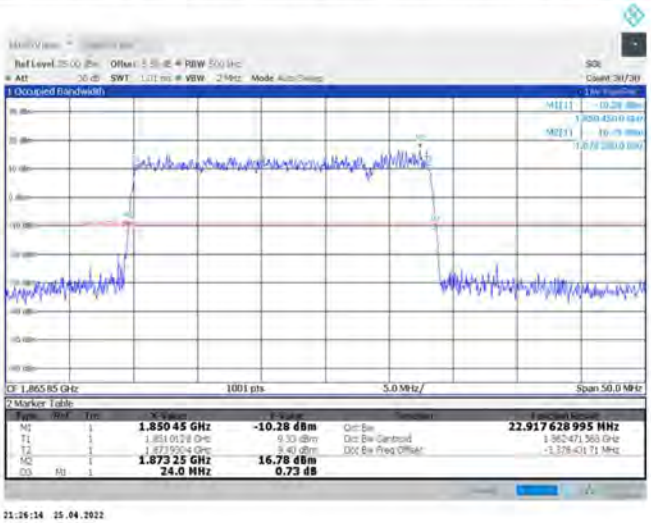

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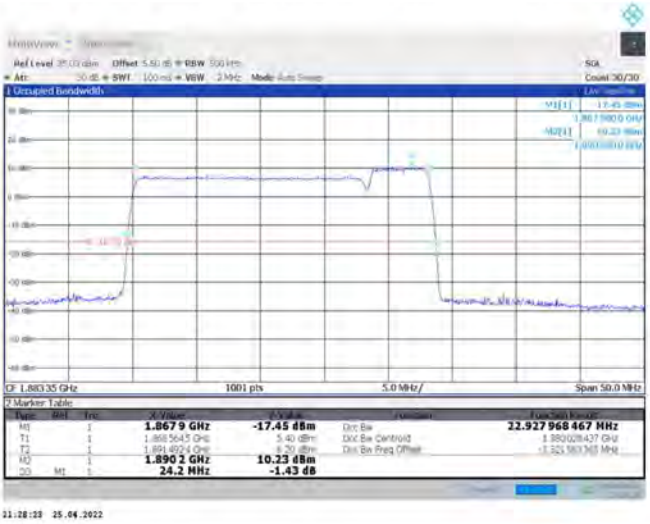

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2-2-20MHz-5MHz-QPSK-QPSK-19050-19167-100RB#0-25RB#0

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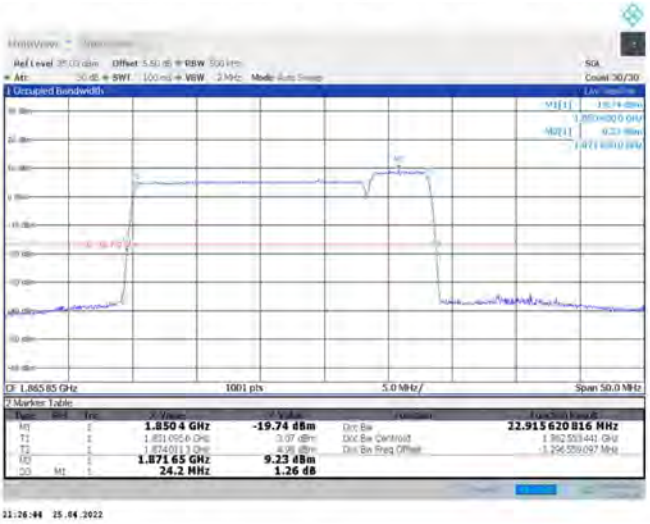

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2-2-20MHz-5MHz-16QAM-16QAM-18875-18992-100RB#0-25RB#0

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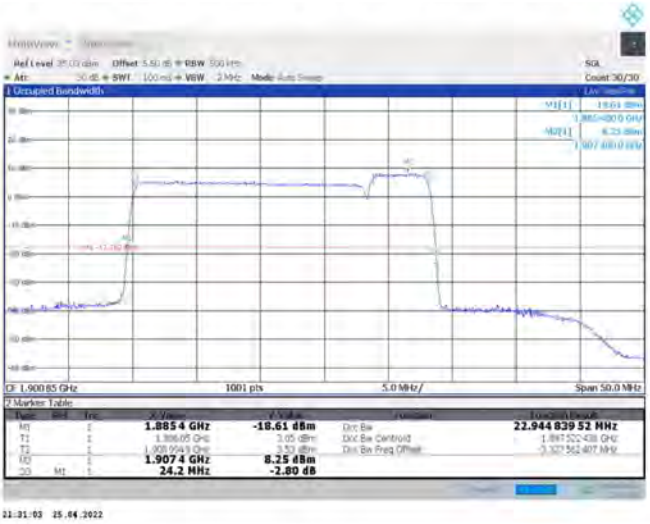

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2-2-20MHz-5MHz-64QAM-64QAM-18700-18817-100RB#0-25RB#0

2-2-20MHz-5MHz-64QAM-64QAM-18875-18992-100RB#0-25RB#0

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2-2-20MHz-5MHz-64QAM-64QAM-19050-19167-100RB#0-25RB#0

2-2-20MHz-5MHz-256QAM-256QAM-18700-18817-100RB#0-25RB#0

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2-2-20MHz-5MHz-256QAM-256QAM-18875-18992-100RB#0-25RB#0

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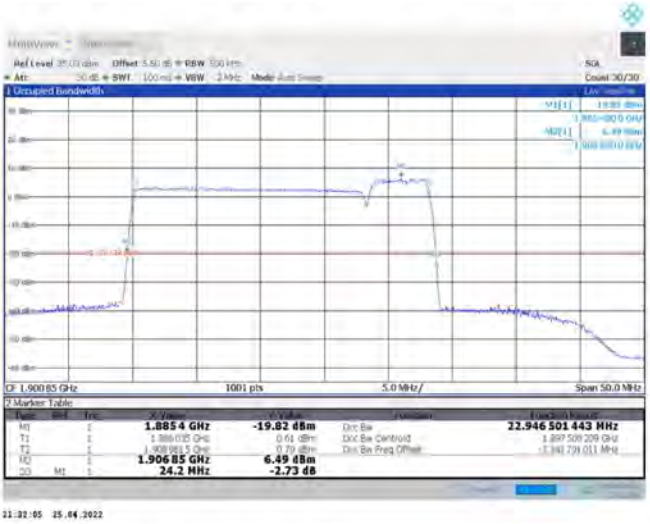

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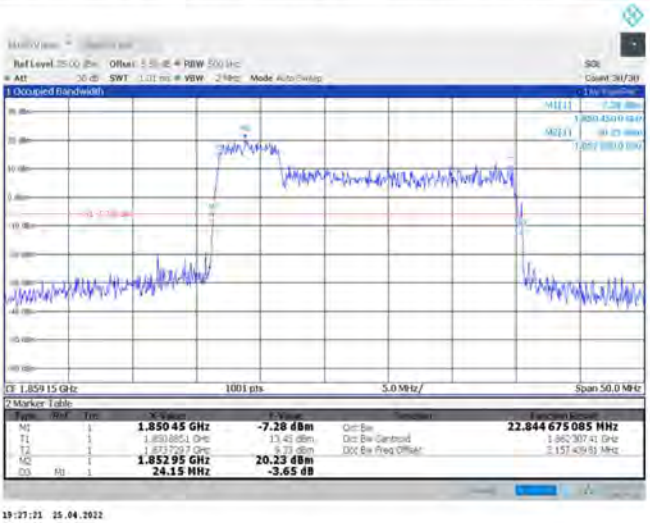

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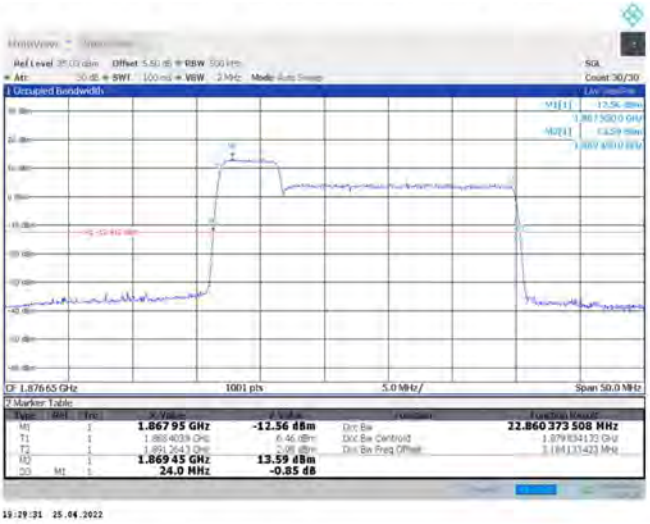

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2-2-5MHz-20MHz-QPSK-QPSK-18983-19100-25RB#0-100RB#0

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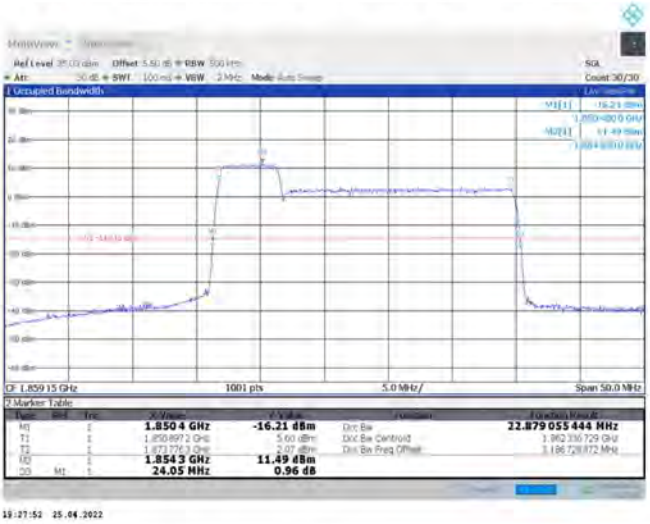

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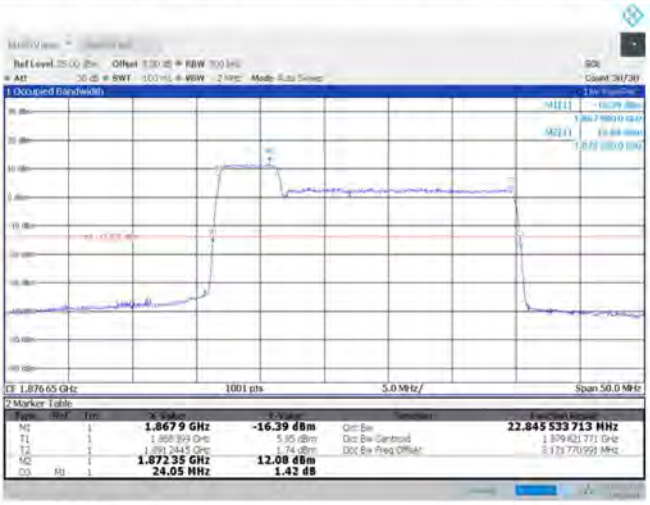

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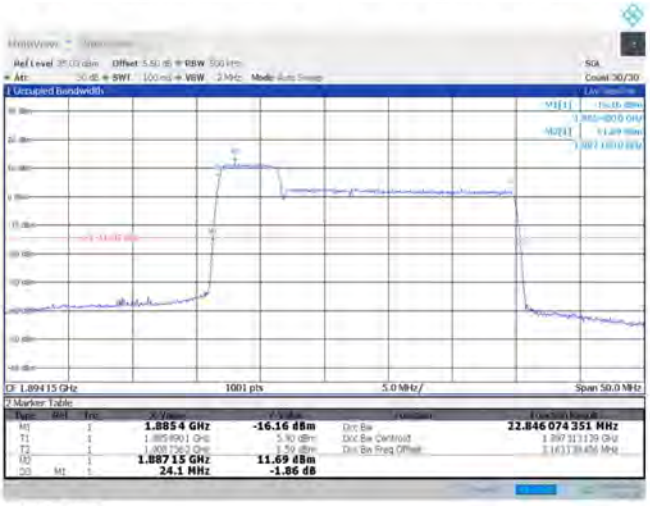

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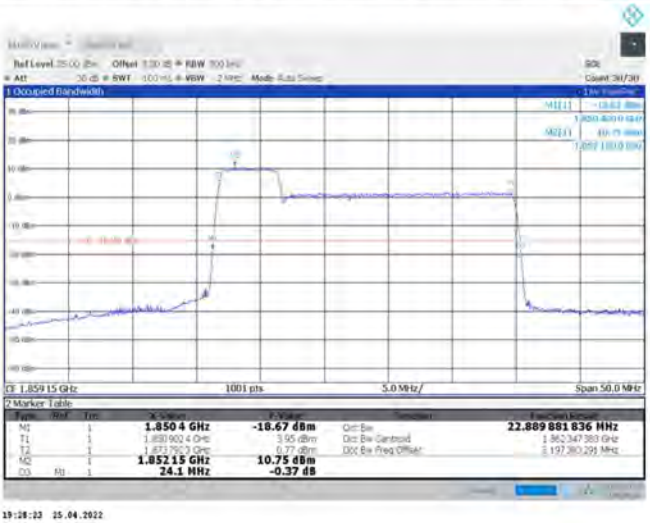

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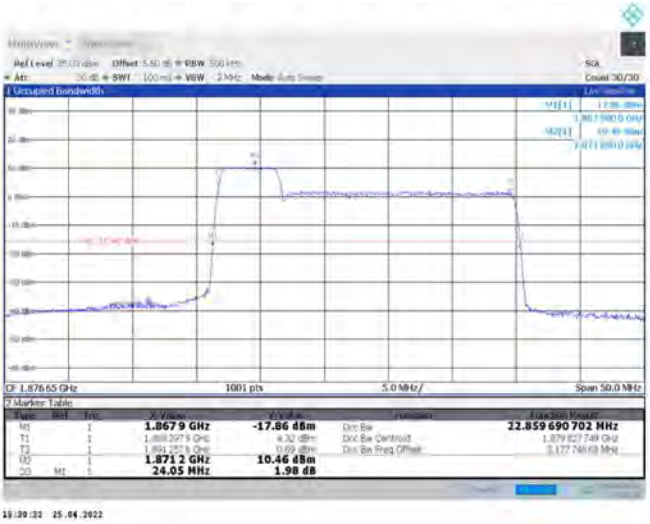

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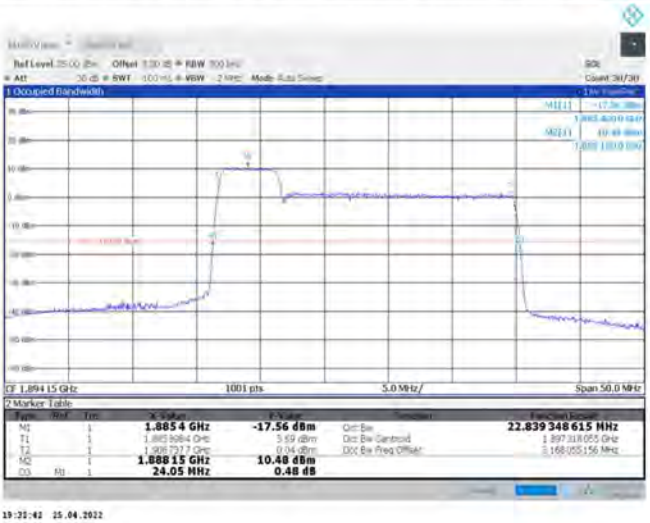

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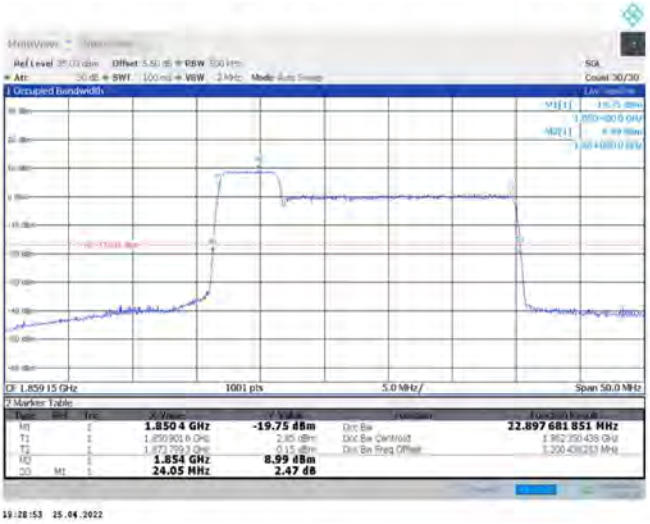

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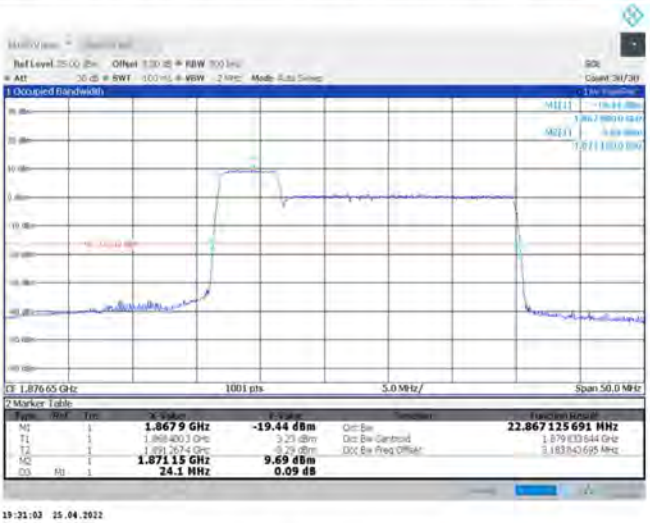

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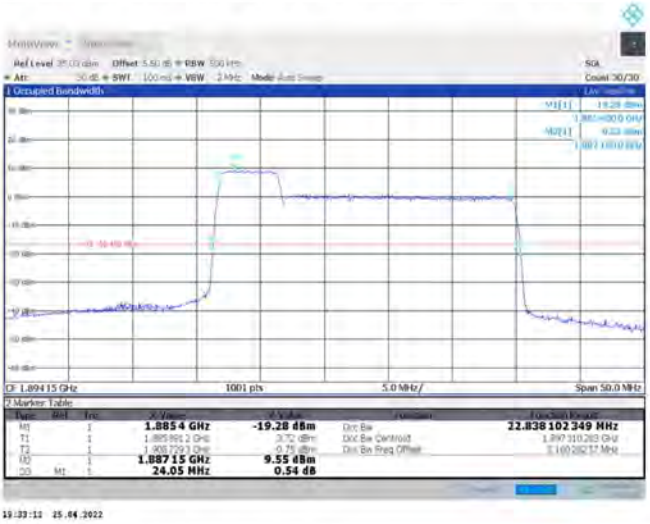

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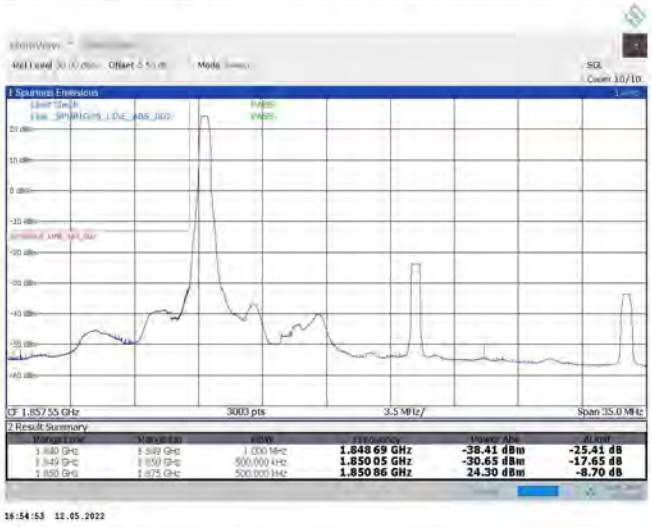
Band Edge

Test Graphs

2-2-10MHz-15MHz-QPSK-QPSK-18653-18773-1RB#0-0RB#0



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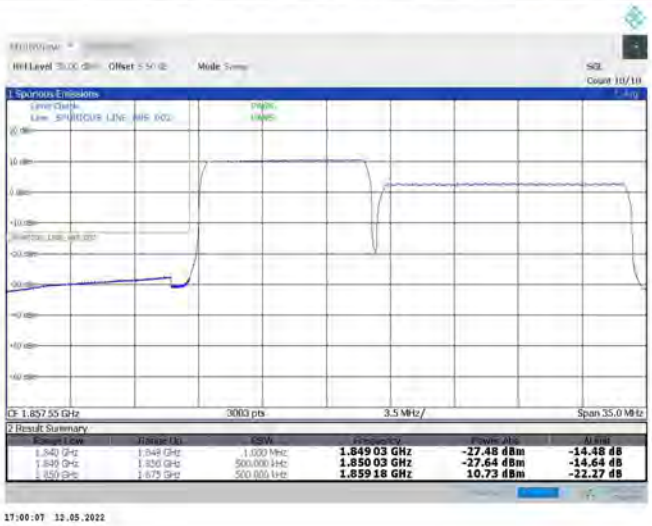

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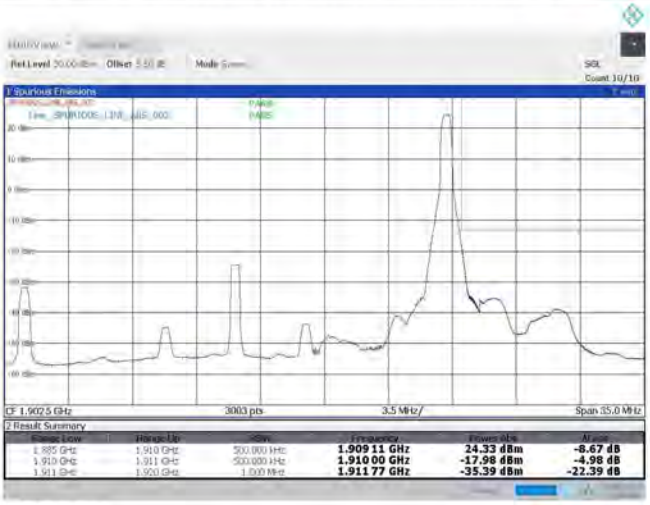

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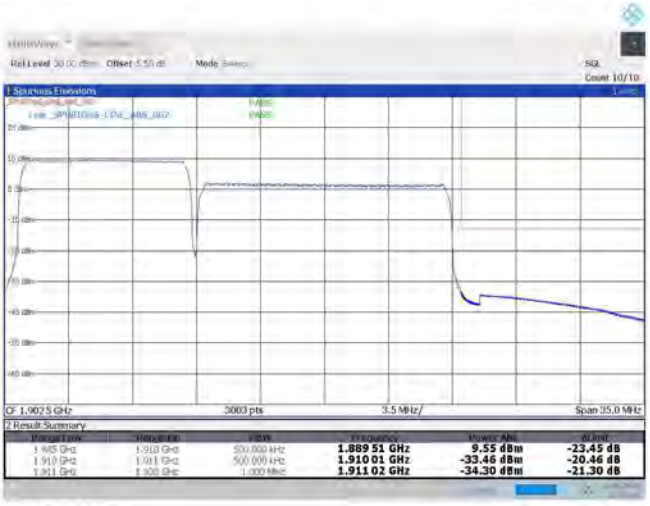

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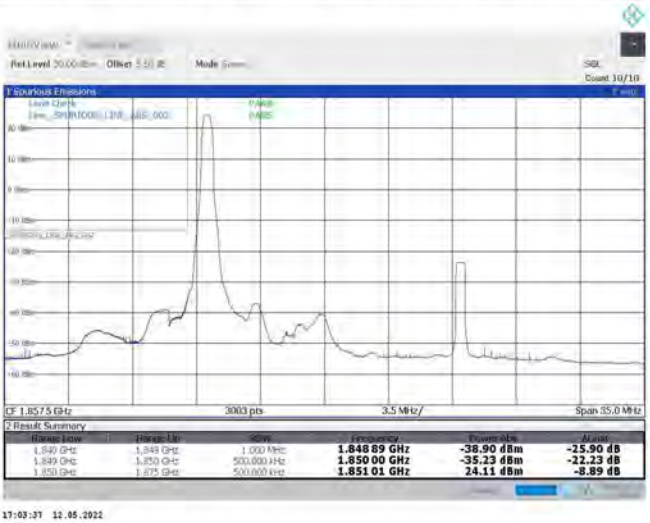

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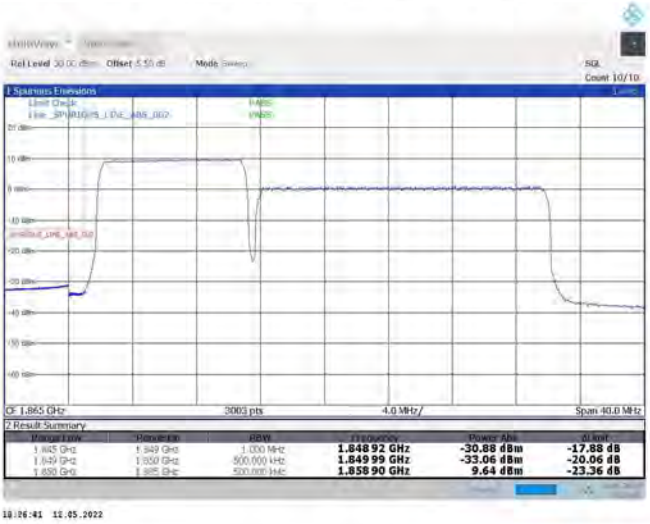

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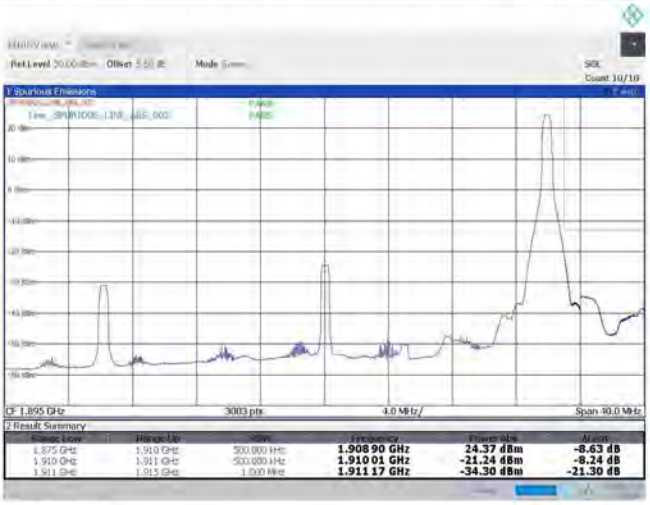

2-2-10MHz-20MHz-QPSK-QPSK-18956-19100-50RB#0-100RB#0

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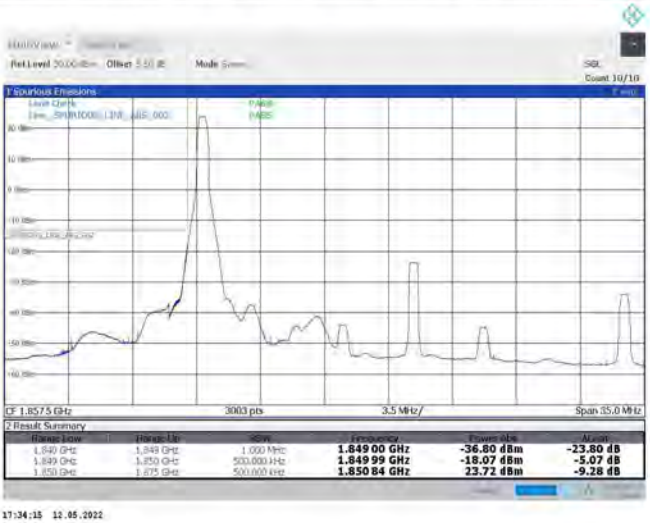
2-2-15MHz-10MHz-QPSK-QPSK-18675-18795-1RB#0-0RB#0



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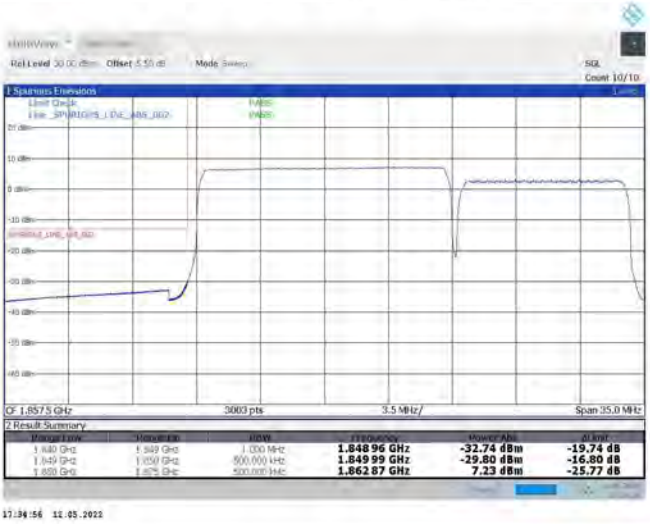

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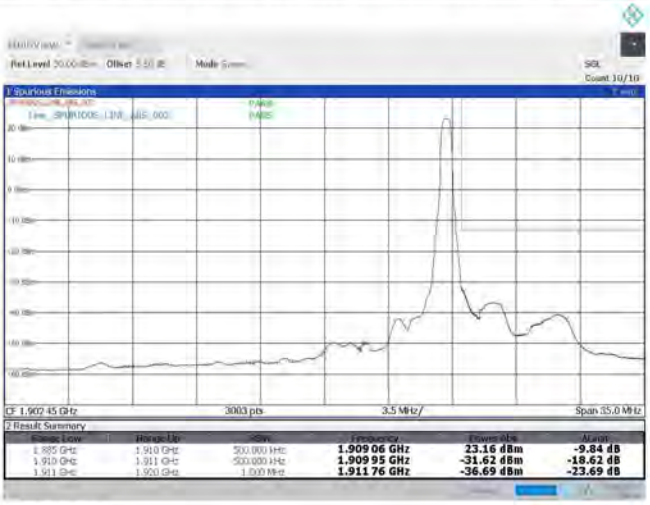

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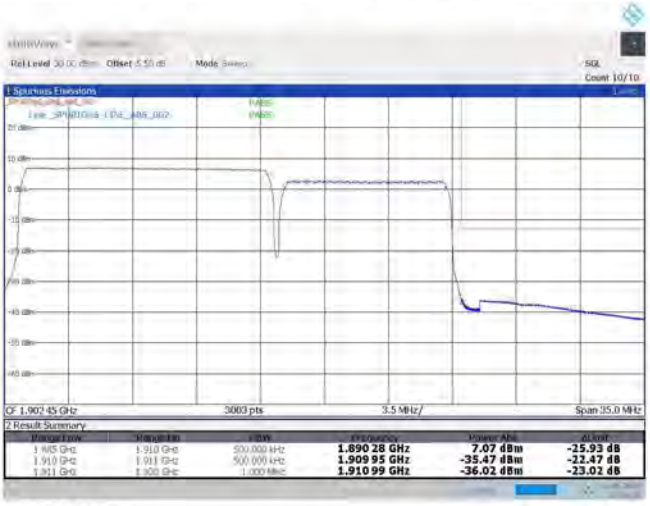

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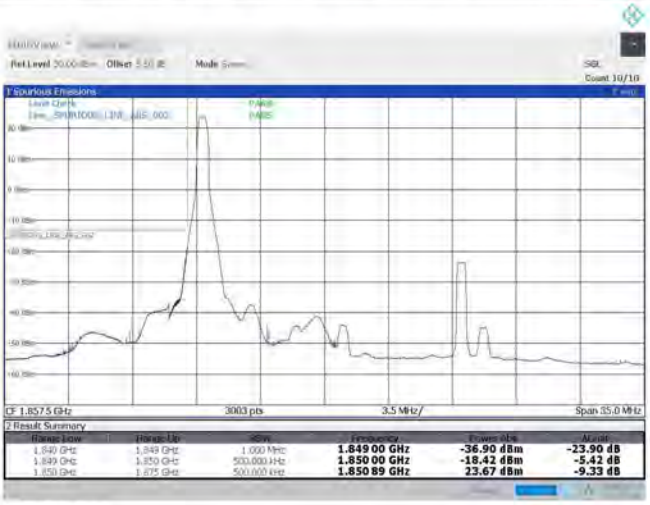

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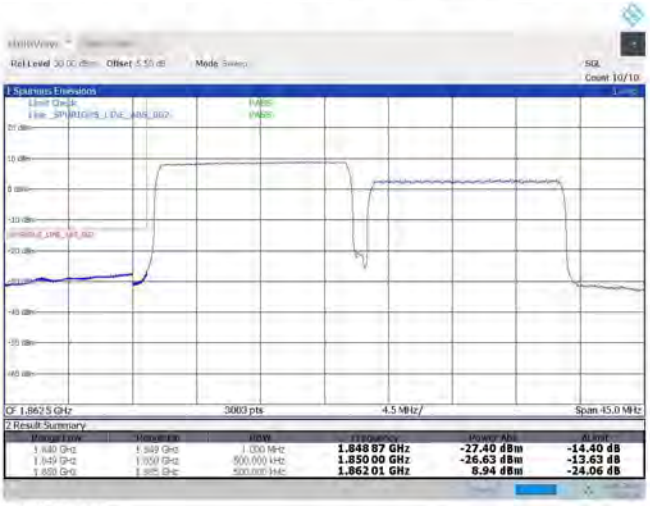

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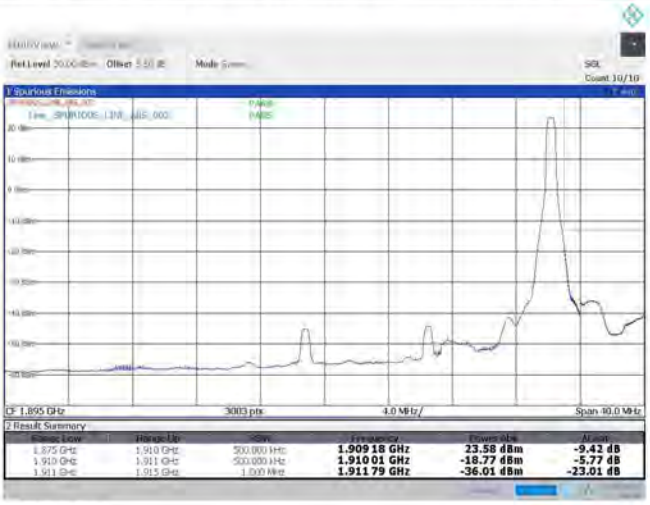

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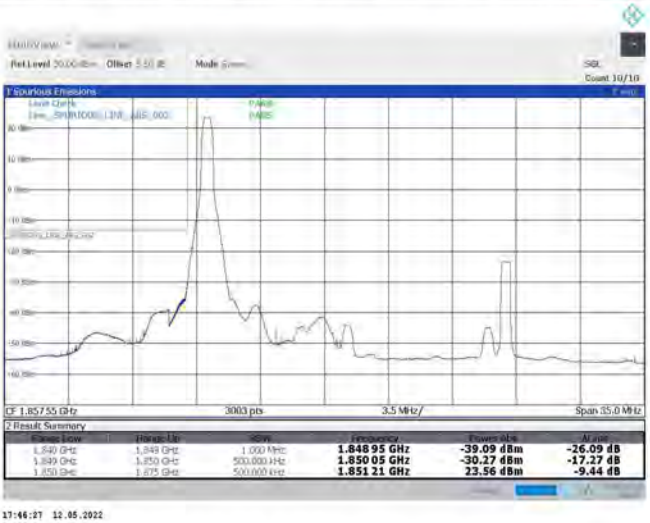

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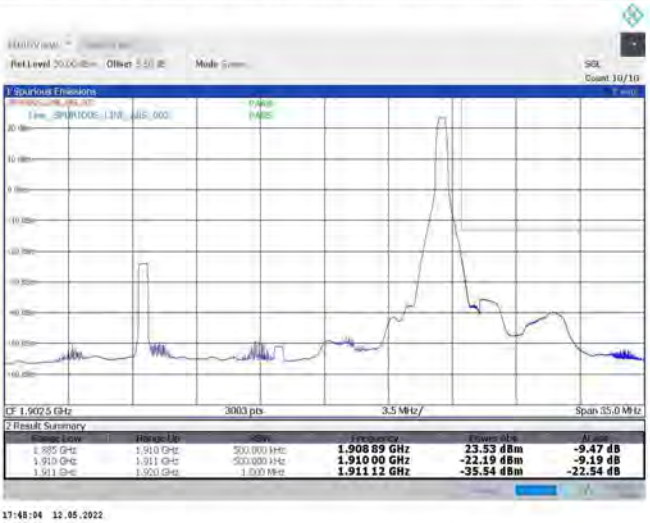

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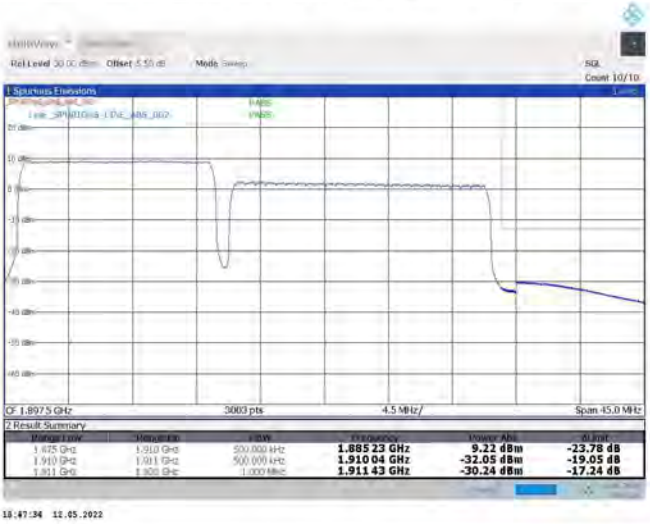

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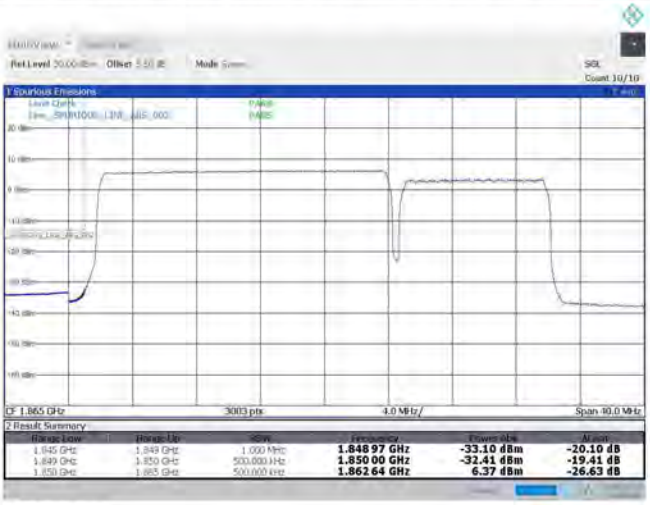

2-2-20MHz-10MHz-QPSK-QPSK-18700-18844-1RB#0-0RB#0

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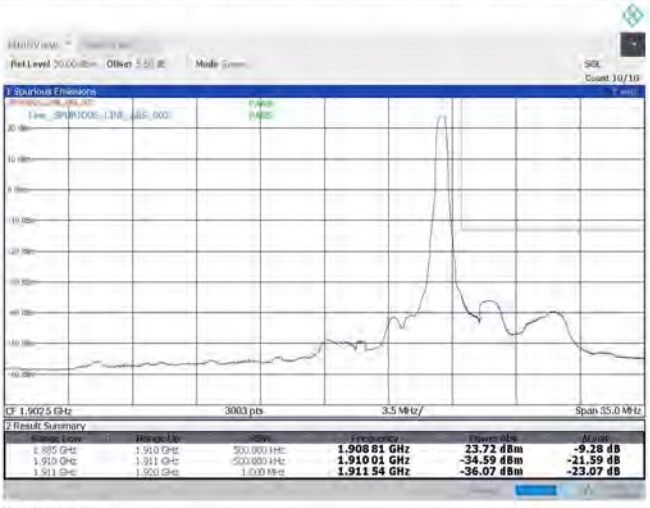
2-2-20MHz-10MHz-QPSK-QPSK-19001-19145-0RB#0-1RB#49



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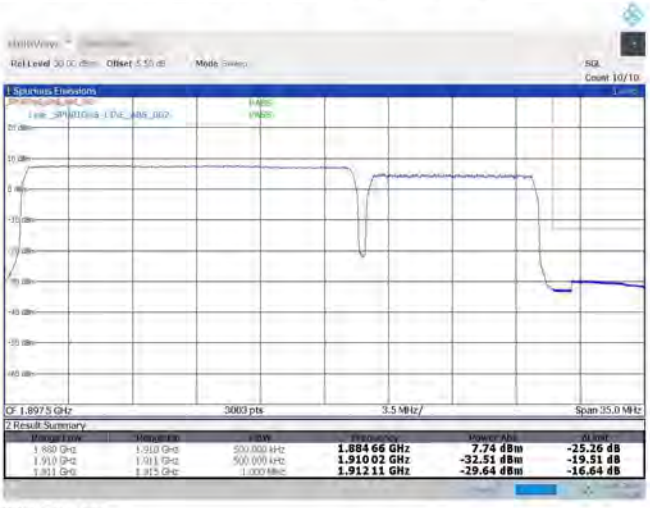

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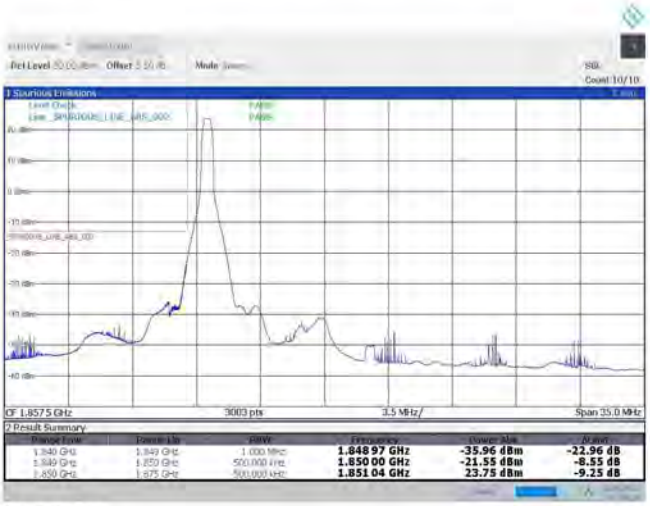

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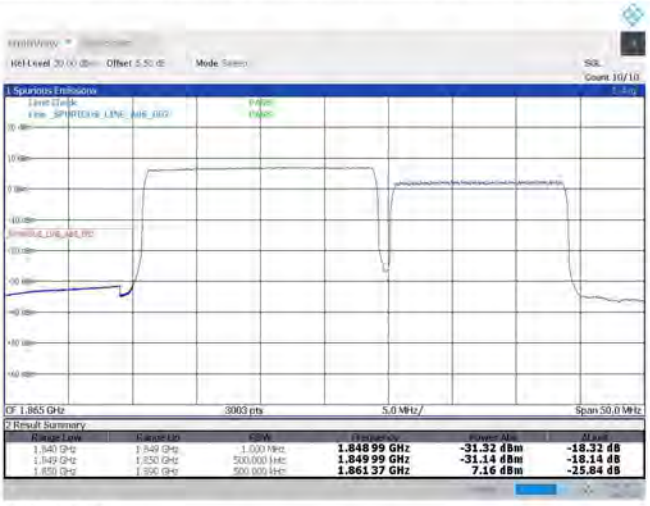

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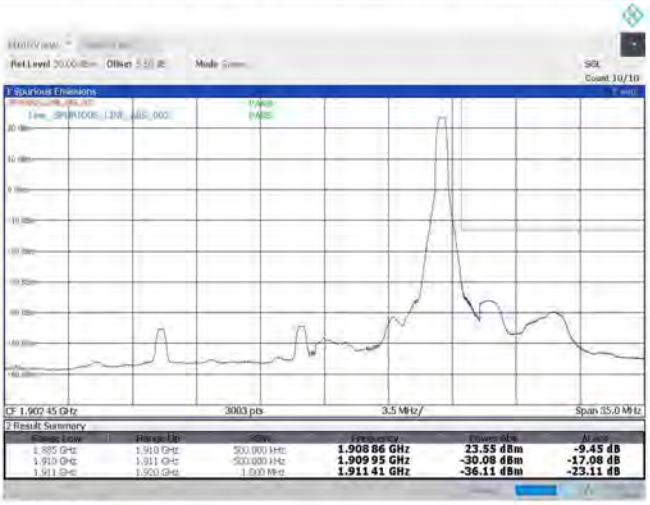
2-2-20MHz-15MHz-QPSK-QPSK-18951-19122-0RB#0-1RB#74



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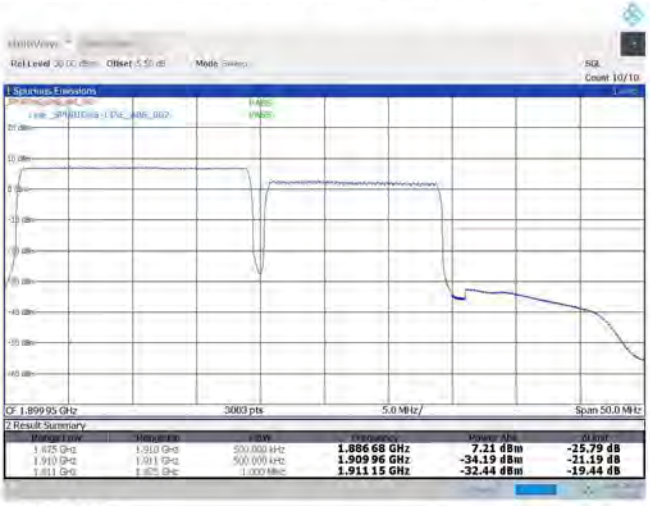

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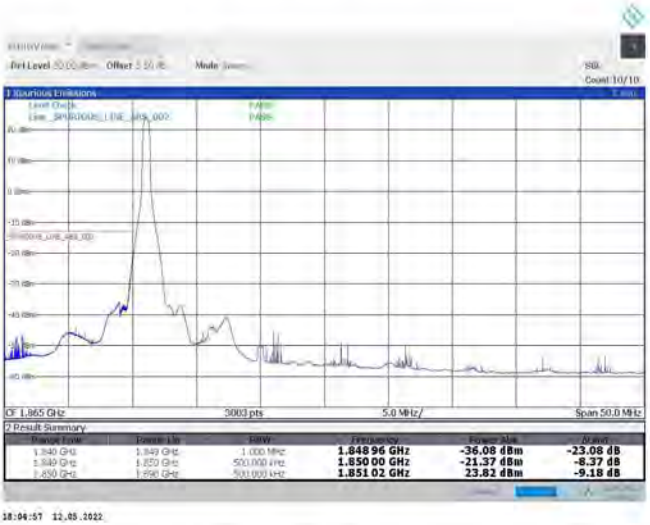
2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-1RB#0-0RB#0



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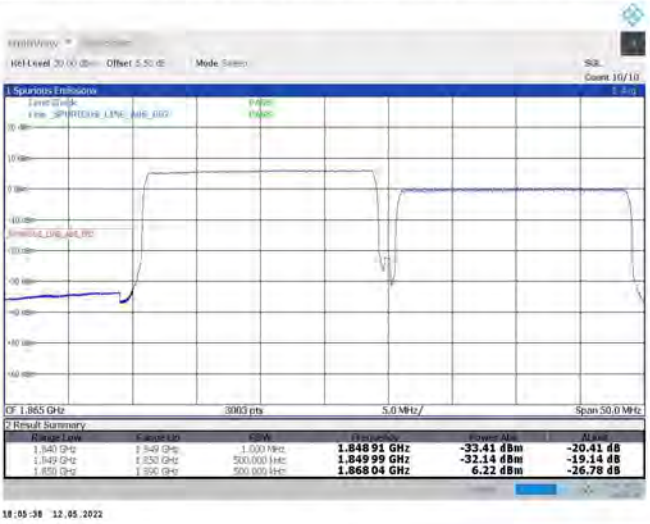

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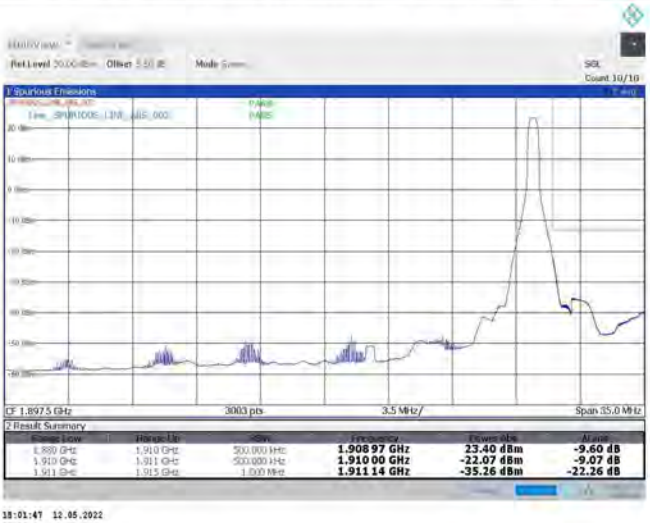
2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-0RB#0-1RB#99



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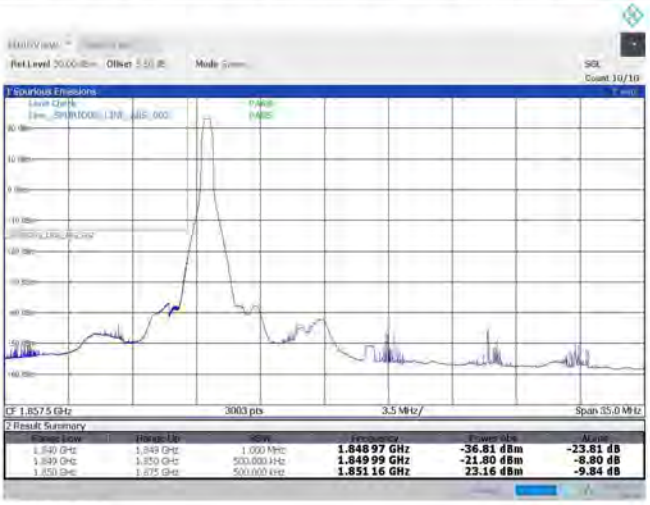
2-2-20MHz-5MHz-QPSK-QPSK-18700-18817-1RB#0-0RB#0



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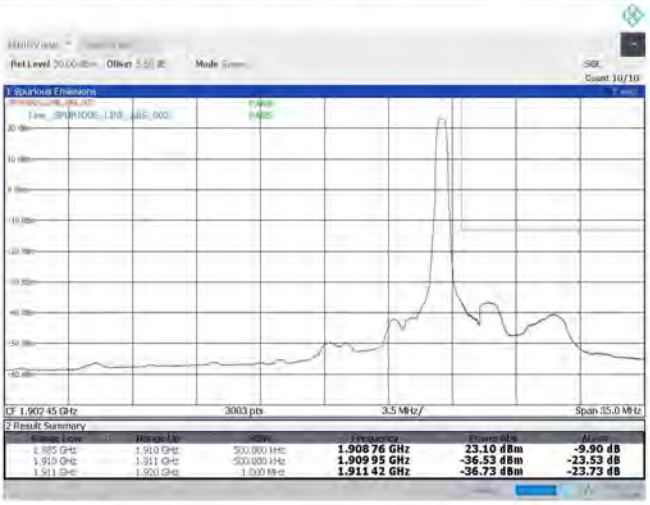
2-2-20MHz-5MHz-QPSK-QPSK-19050-19167-0RB#0-1RB#24



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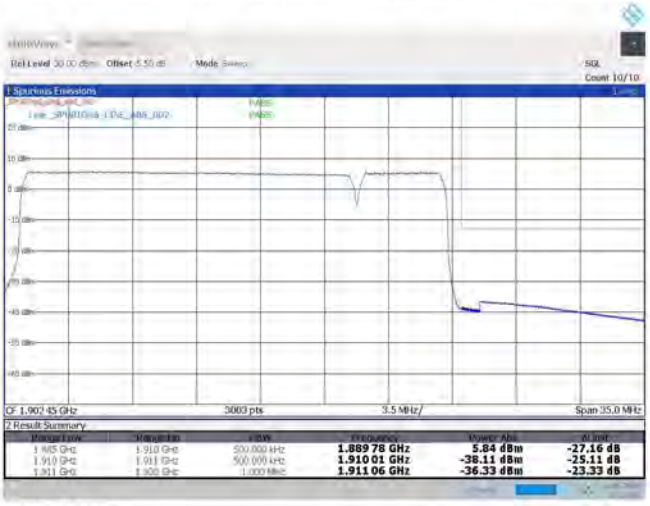

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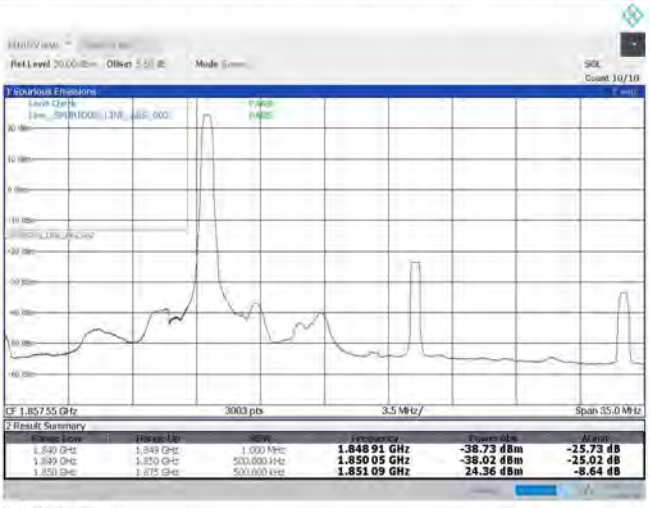
2-2-5MHz-20MHz-QPSK-QPSK-18633-18750-1RB#0-0RB#0



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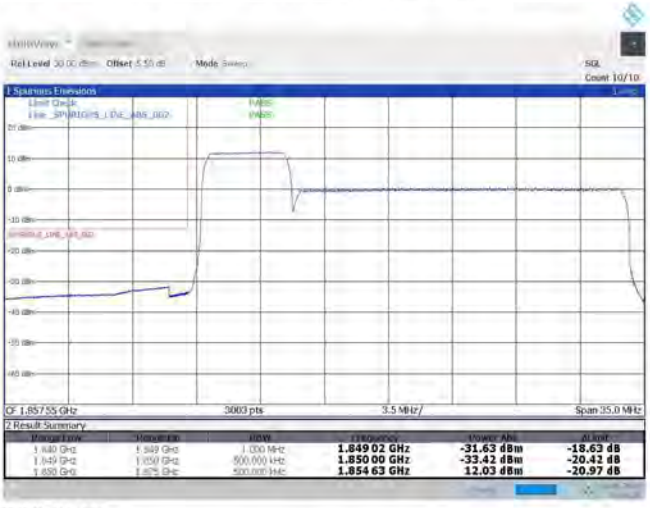

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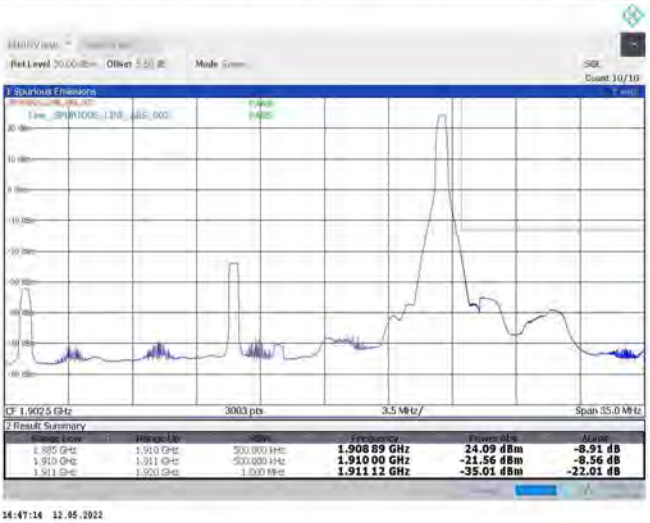
2-2-5MHz-20MHz-QPSK-QPSK-18983-19100-0RB#0-1RB#99



2-2-5MHz-20MHz-QPSK-QPSK-18983-19100-25RB#0-100RB#0

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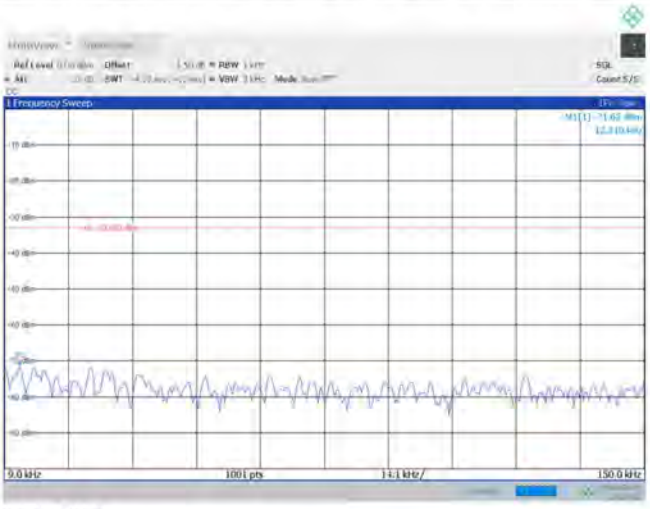
Conducted Spurious Emission

Test Graphs

2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-1RB#0-0RB#0-0.009~0.15MHz



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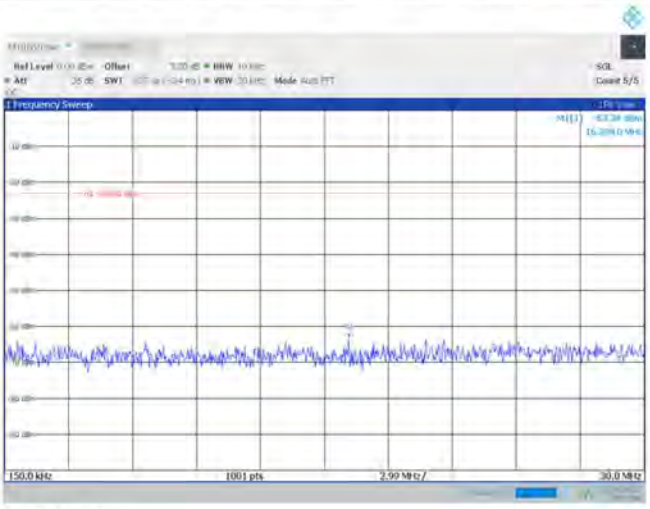

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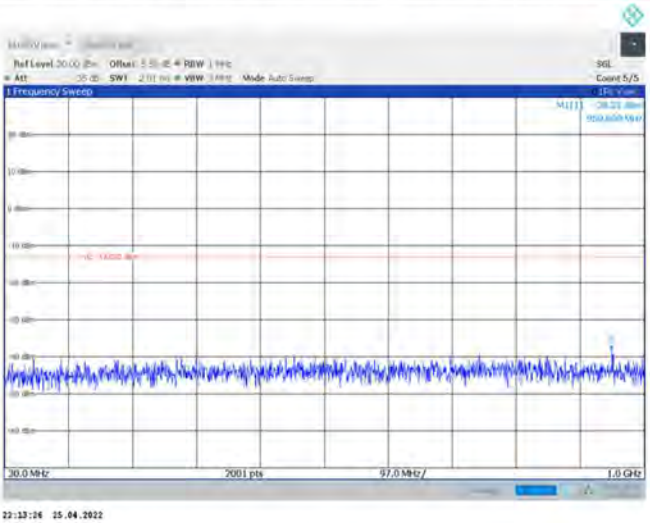
2-2-20MHz-20MHz-QPSK-QPSK-18700-18898-1RB#0-0RB#0-30~1000MHz



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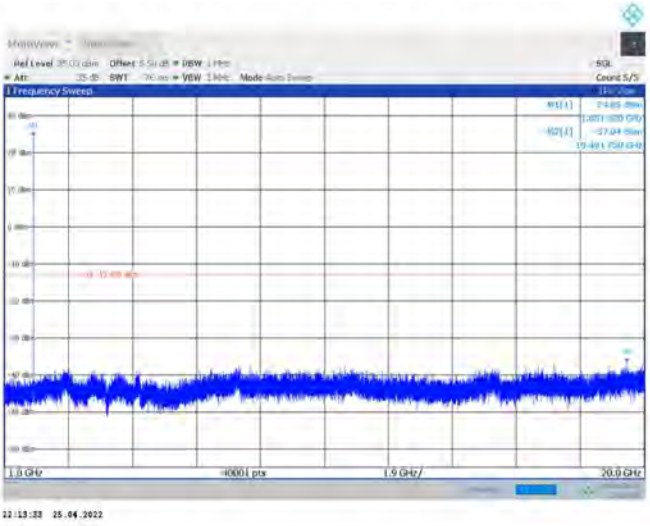

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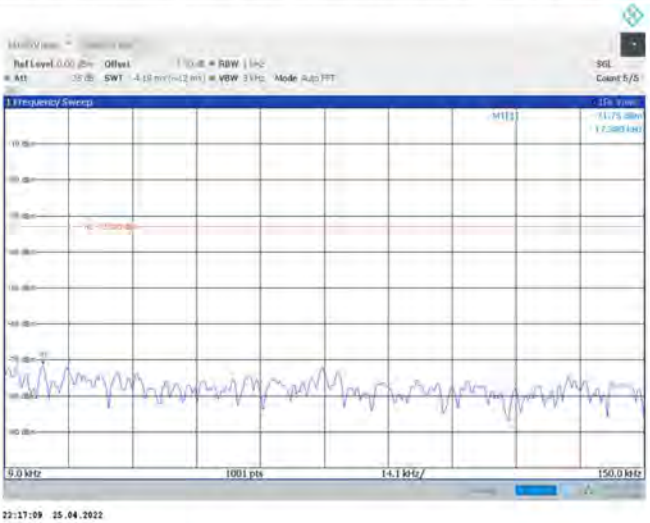
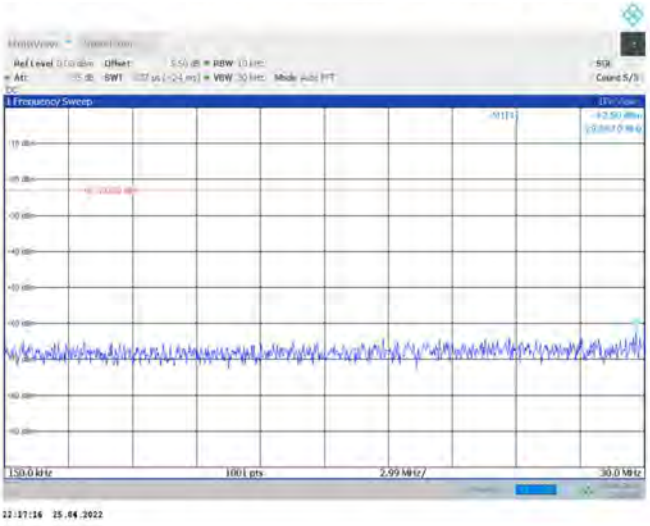
2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-0RB#0-0.009~0.15MHz



2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-0RB#0-0.15~30MHz



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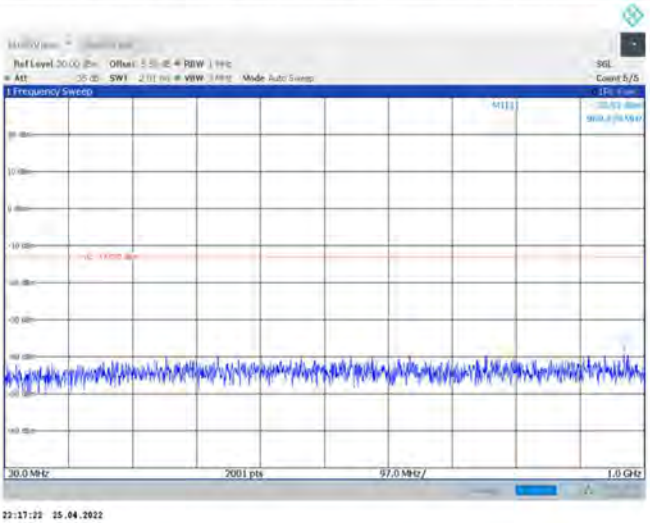
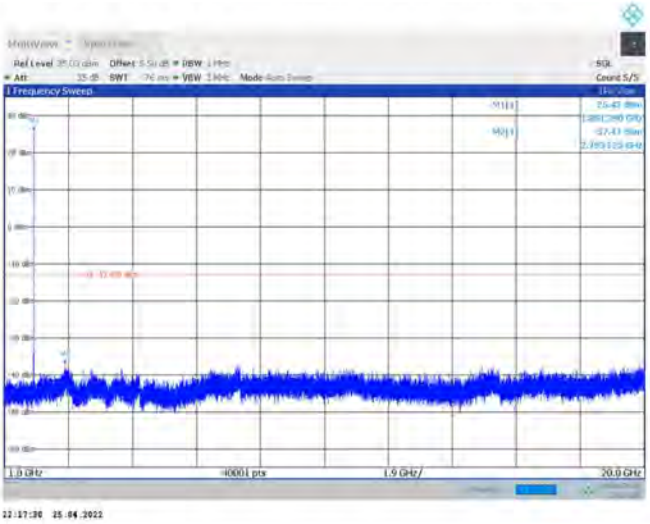
2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-0RB#0-30~1000MHz



2-2-20MHz-20MHz-QPSK-QPSK-18801-18999-1RB#0-0RB#0-1000~20000MHz



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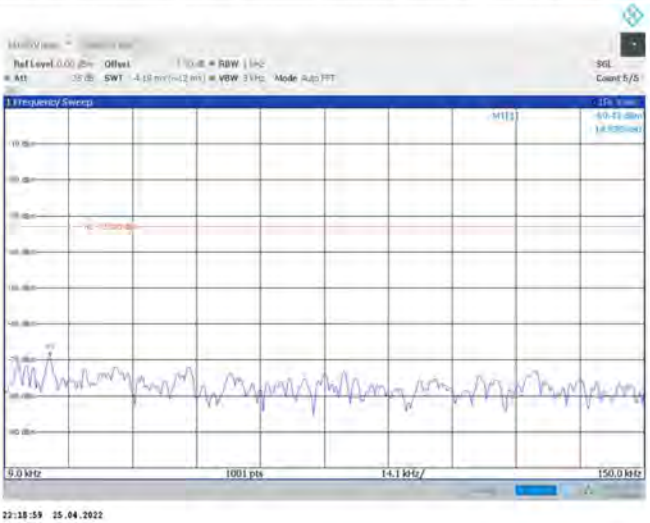
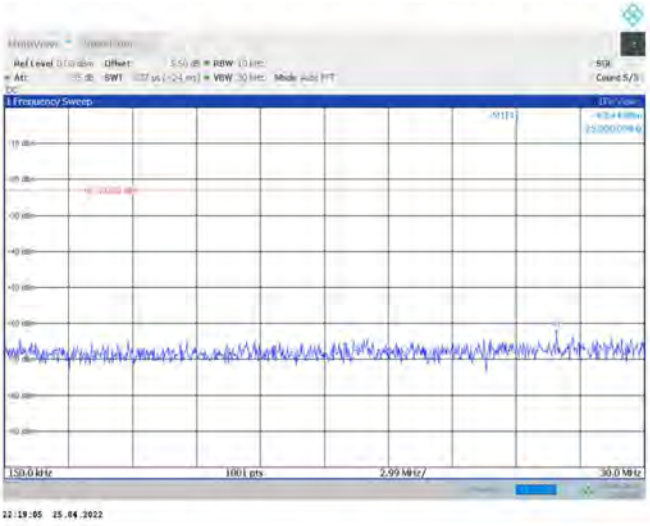
2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#0-0RB#0-0.009~0.15MHz



2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#0-0RB#0-0.15~30MHz



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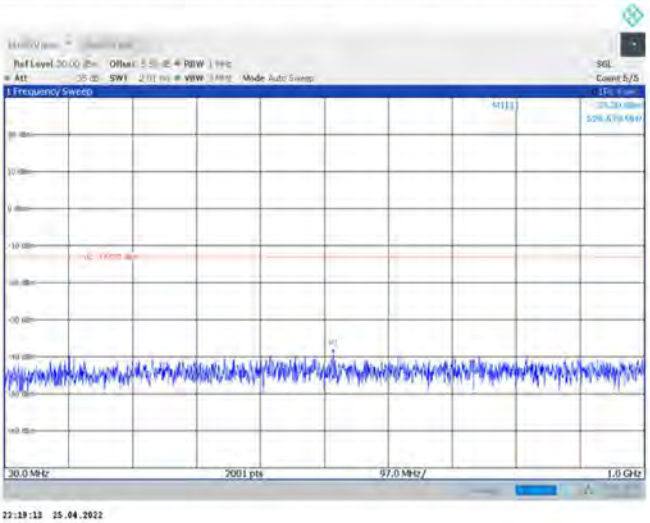
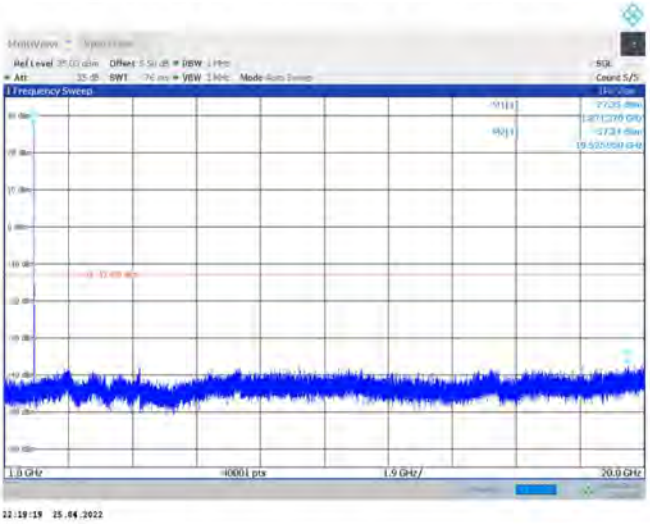
2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#0-0RB#0-30~1000MHz



2-2-20MHz-20MHz-QPSK-QPSK-18902-19100-1RB#0-0RB#0-1000~20000MHz



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Field Strength of Spurious Radiation

Test Band = UL CA Band 2C_ TM1
Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.1800	40.57	-45.51	29.98	-70.22	-13.00	57.22	236	57	Horizontal
2	5553.2700	41.09	-45.15	32.97	-66.35	-13.00	53.35	214	57	Horizontal
3	7404.3600	43.50	-43.40	36.49	-58.67	-13.00	45.67	198	283	Horizontal
4	9255.4500	35.29	-40.23	38.38	-61.82	-13.00	48.82	251	150	Horizontal
5	11106.5400	31.28	-37.93	39.09	-62.82	-13.00	49.82	145	360	Horizontal
6	12957.6300	30.60	-37.24	39.79	-62.11	-13.00	49.11	222	357	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3702.1800	40.67	-45.51	29.98	-70.12	-13.00	57.12	211	4	Vertical
2	5553.2700	46.56	-45.15	32.97	-60.88	-13.00	47.88	145	195	Vertical
3	7404.3600	45.09	-43.40	36.49	-57.08	-13.00	44.08	136	120	Vertical
4	9255.4500	35.77	-40.23	38.38	-61.34	-13.00	48.34	259	91	Vertical
5	11106.5400	31.16	-37.93	39.09	-62.94	-13.00	49.94	188	269	Vertical
6	12957.6300	30.08	-37.24	39.79	-62.63	-13.00	49.63	211	16	Vertical

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Test Band = UL CA Band 2C_ TM1
Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3722.1800	40.51	-45.59	30.05	-70.29	-13.00	57.29	245	239	Horizontal
2	5583.2700	39.78	-45.10	33.00	-67.58	-13.00	54.58	163	313	Horizontal
3	7444.7600	38.61	-43.29	36.47	-63.47	-13.00	50.47	258	29	Horizontal
4	9305.9500	34.61	-40.20	38.42	-62.43	-13.00	49.43	174	3	Horizontal
5	11167.1400	32.90	-37.58	39.10	-60.84	-13.00	47.84	195	209	Horizontal
6	13028.3300	29.86	-37.23	39.84	-62.79	-13.00	49.79	215	29	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3722.1800	40.31	-45.59	30.05	-70.49	-13.00	57.49	235	164	Vertical
2	5583.2700	40.52	-45.10	33.00	-66.84	-13.00	53.84	145	43	Vertical
3	7444.7600	39.10	-43.29	36.47	-62.98	-13.00	49.98	266	360	Vertical
4	9305.9500	35.19	-40.20	38.42	-61.85	-13.00	48.85	159	75	Vertical
5	11167.1400	32.30	-37.58	39.10	-61.44	-13.00	48.44	198	299	Vertical
6	13028.3300	29.09	-37.23	39.84	-63.56	-13.00	50.56	175	269	Vertical

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Test Band = UL CA Band 2C_ TM1
Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.5800	40.42	-45.68	30.13	-70.40	-13.00	57.40	211	360	Horizontal
2	5613.8700	40.13	-45.04	33.07	-67.10	-13.00	54.10	154	316	Horizontal
3	7485.1600	38.94	-43.18	36.45	-63.05	-13.00	50.05	142	353	Horizontal
4	9356.4500	35.39	-40.00	38.46	-61.41	-13.00	48.41	165	360	Horizontal
5	11227.7400	32.39	-37.40	39.11	-61.16	-13.00	48.16	182	359	Horizontal
6	13099.0300	30.23	-37.00	39.87	-62.16	-13.00	49.16	153	209	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBµV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3742.5800	40.37	-45.68	30.13	-70.45	-13.00	57.45	255	359	Vertical
2	5613.8700	39.86	-45.04	33.07	-67.37	-13.00	54.37	142	4	Vertical
3	7485.1600	38.86	-43.18	36.45	-63.13	-13.00	50.13	188	360	Vertical
4	9356.4500	35.43	-40.00	38.46	-61.37	-13.00	48.37	175	209	Vertical
5	11227.7400	32.95	-37.40	39.11	-60.60	-13.00	47.60	146	120	Vertical
6	13099.0300	29.66	-37.00	39.87	-62.73	-13.00	49.73	136	164	Vertical

Remark:

1) The field strength is calculated by adding the Antenna Factor, Cable Factor & AMP. The basic equation with a sample calculation is as follows:

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level

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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	VH	NT	54.20	0.028982	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	VL	NT	46.10	0.024651	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	VN	NT	42.50	0.022726	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (℃)	Deviation (Hz)	Deviation (ppm)	Verdict
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	50	19.20	0.010267	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	40	20.60	0.011015	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	30	43.00	0.022993	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	20	26.70	0.014277	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	10	29.60	0.015828	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	0	30.40	0.016256	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	-10	46.30	0.024758	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	-20	34.00	0.018181	PASS
2-2	20MHz-20MHz	QPSK-QPSK	18801-18999	100RB#0-100RB#0	NV	-30	41.80	0.022352	PASS

---End of Attachment---

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