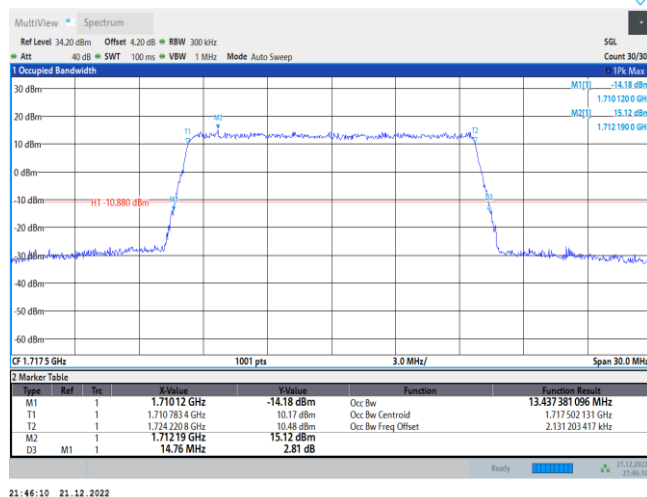


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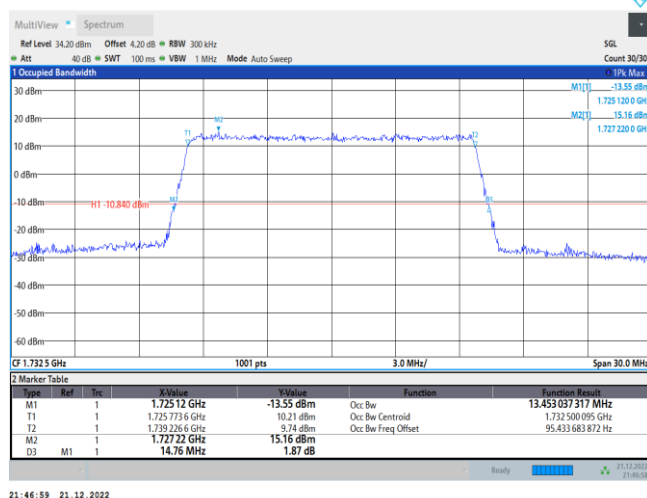
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Band4-15MHz-64QAM-20025-75RB#0



Band4-15MHz-64QAM-20175-75RB#0

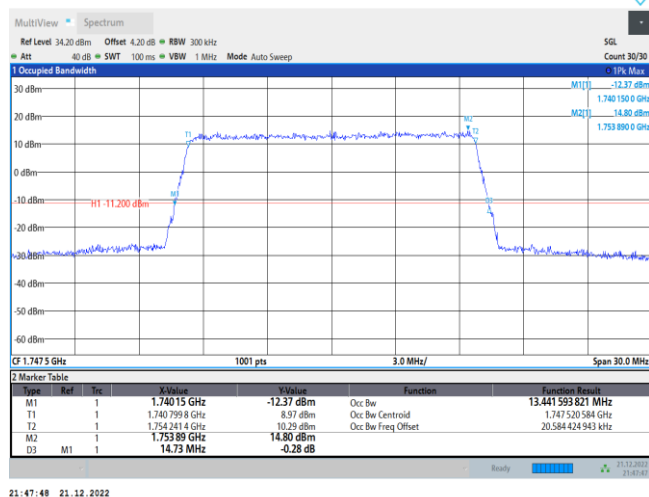


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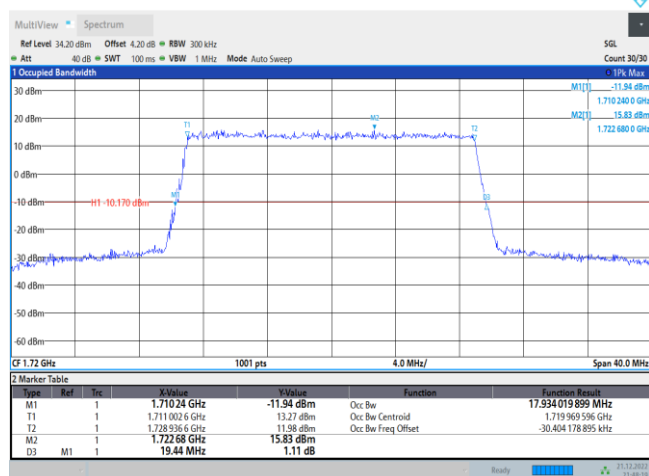
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Band4-20MHz-QPSK-20050-100RB#0



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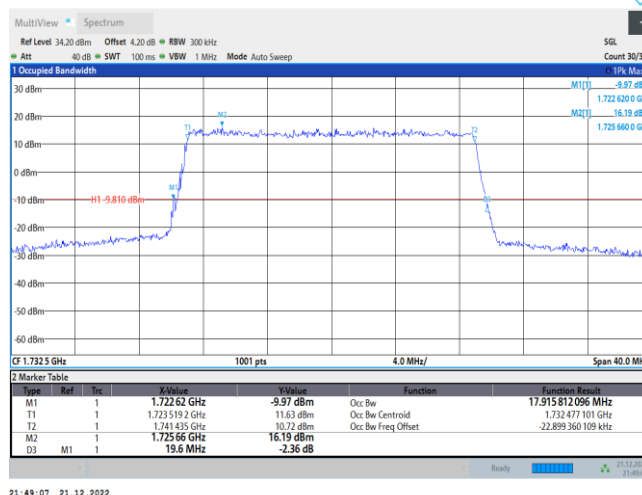
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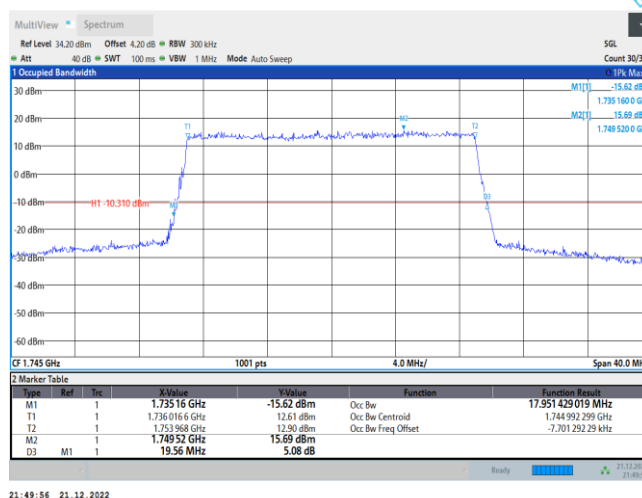
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Band4-20MHz-QPSK-20300-100RB#0

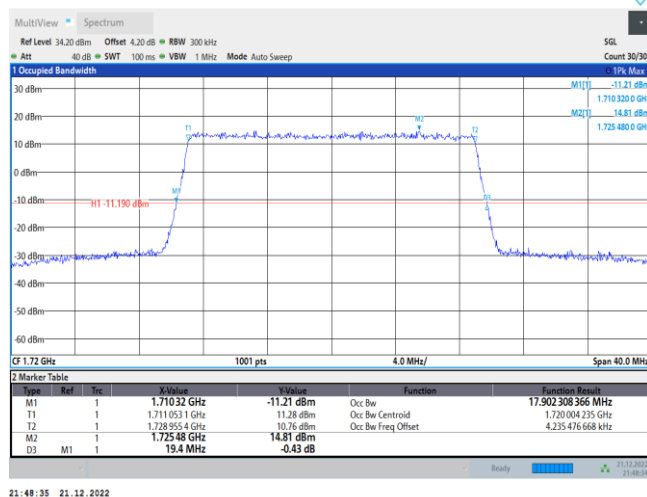


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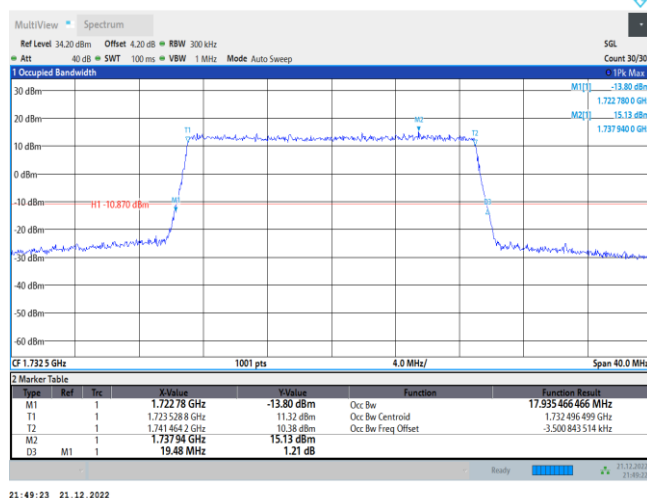
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Band4-20MHz-16QAM-20050-100RB#0



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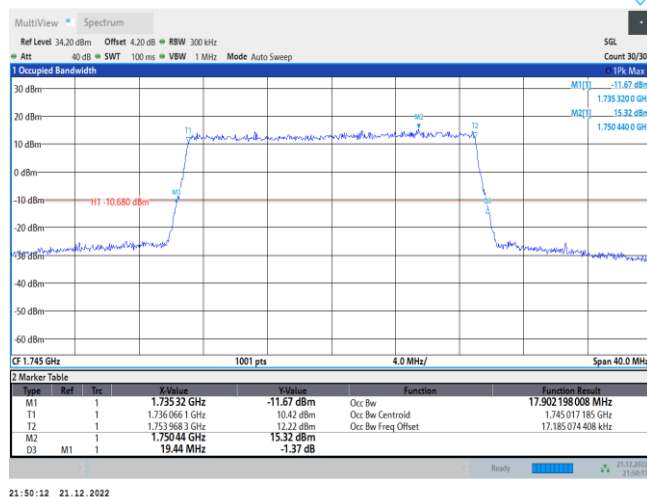


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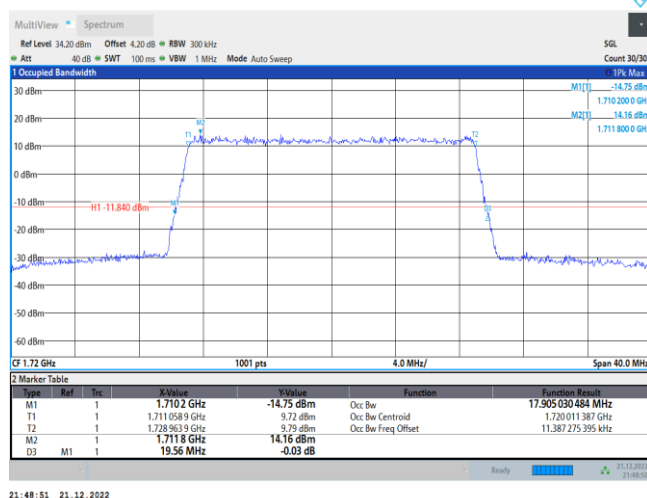
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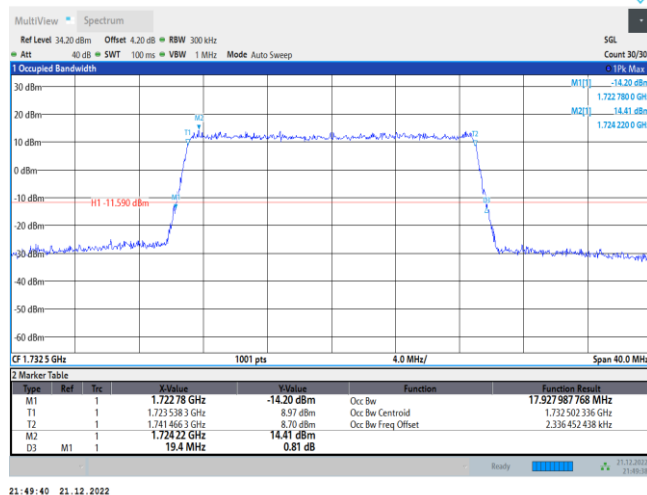
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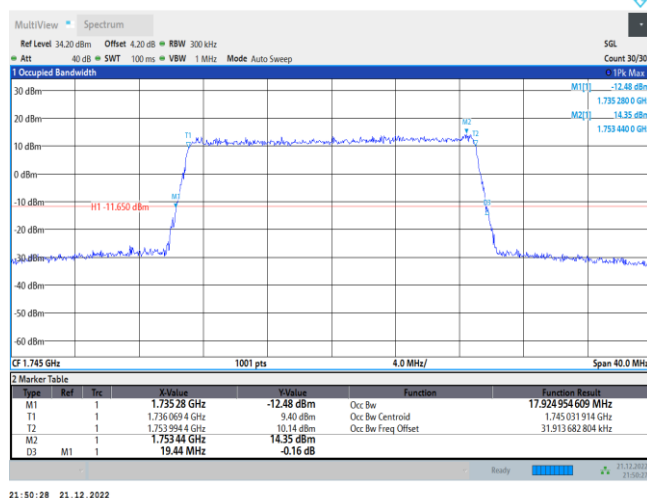
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Band4-20MHz-64QAM-20300-100RB#0



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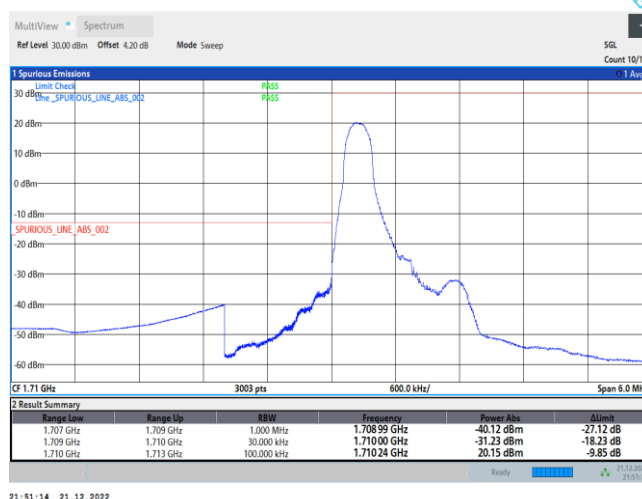
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Band Edge

Test Graphs

Band4-1.4MHz-QPSK-19957-1RB#0



Band4-1.4MHz-QPSK-19957-6RB#0



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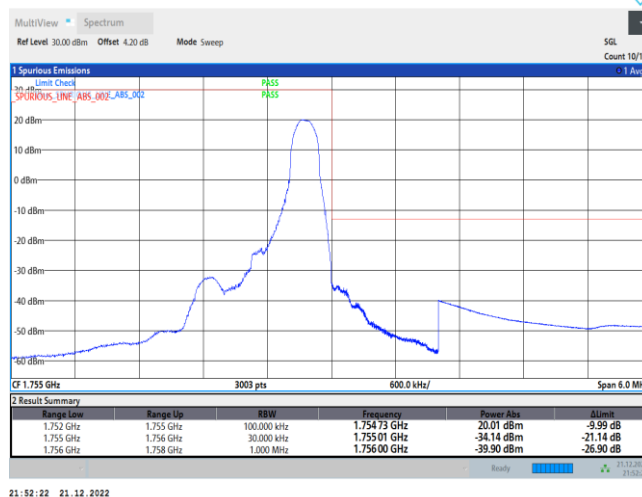
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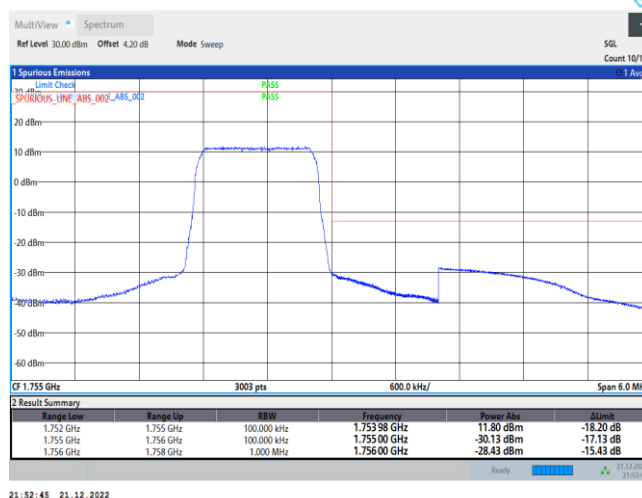
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Band4-1.4MHz-QPSK-20393-6RB#0



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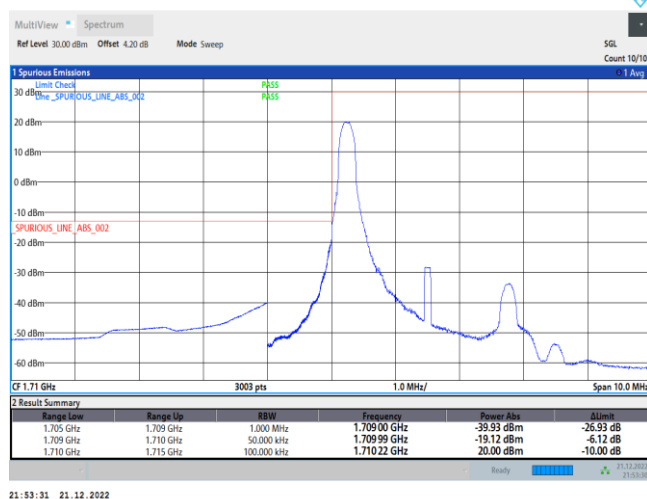
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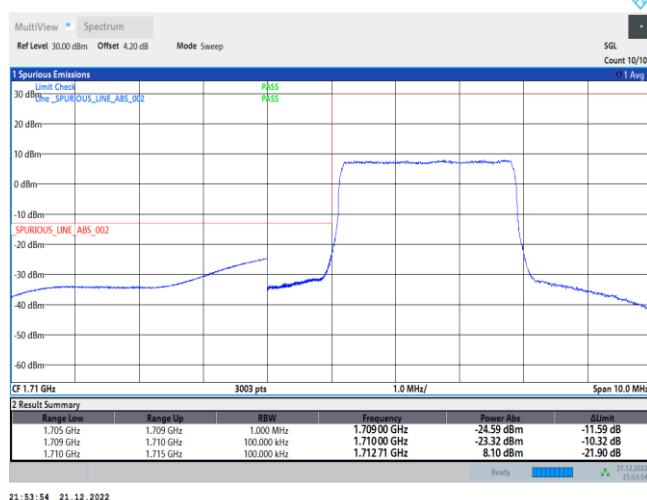
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Band4-3MHz-QPSK-19965-1RB#0



Band4-3MHz-QPSK-19965-15RB#0



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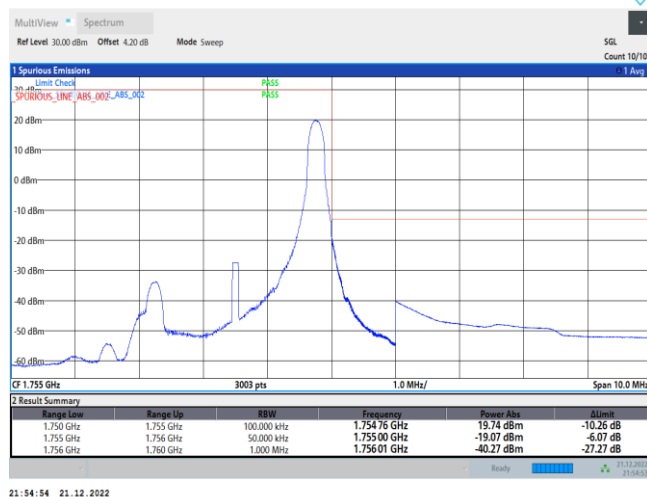
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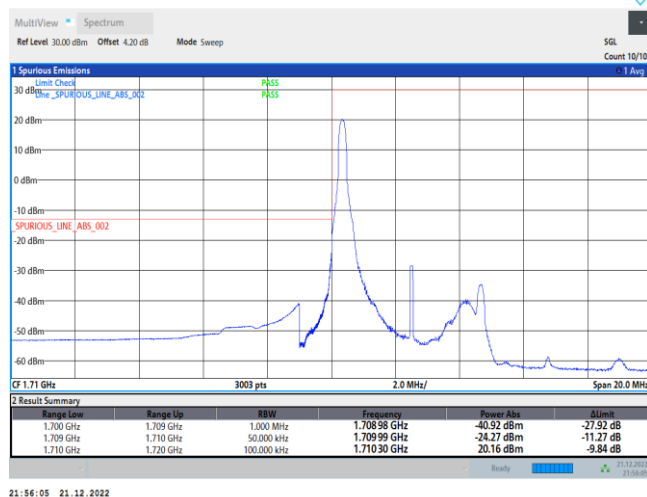
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Band4-5MHz-QPSK-19975-25RB#0



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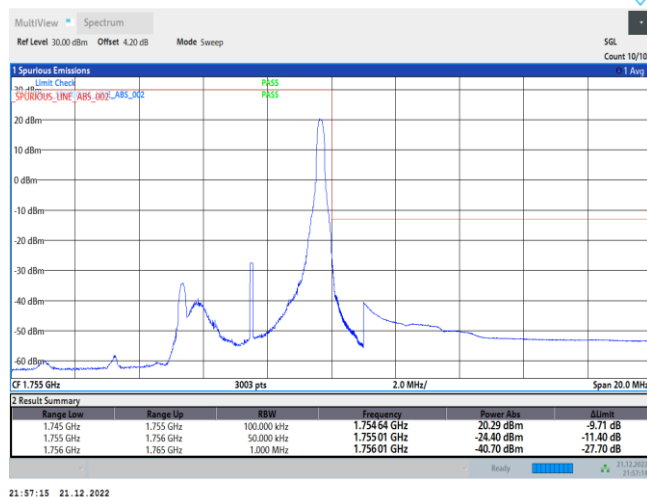
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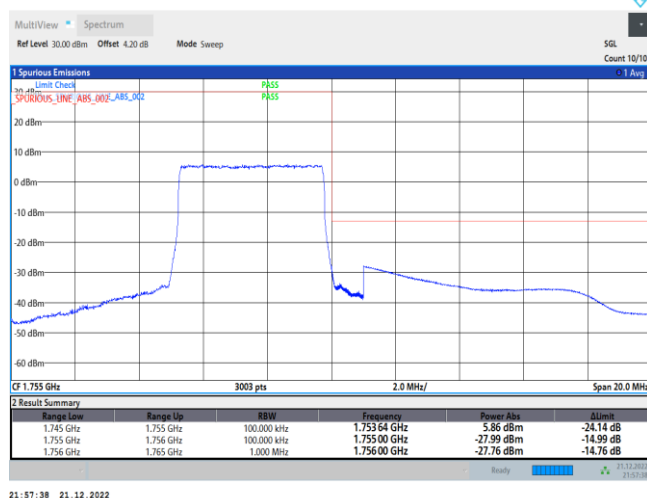
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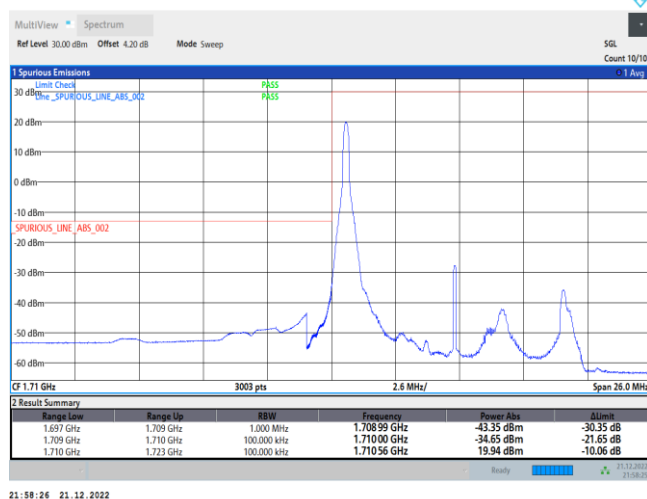
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Band4-10MHz-QPSK-20000-1RB#0



Band4-10MHz-QPSK-20000-50RB#0



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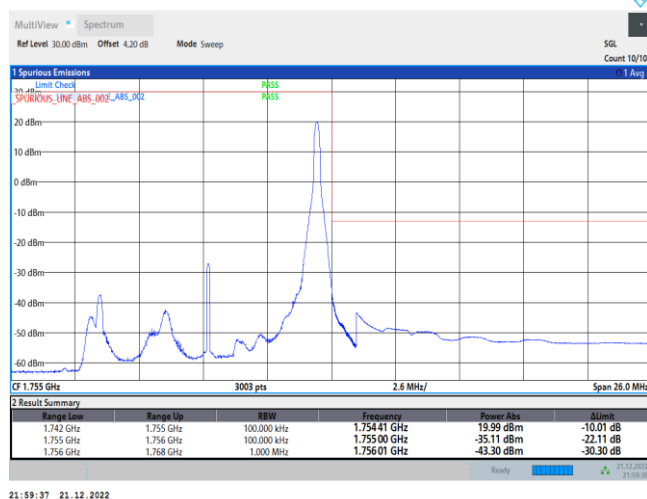
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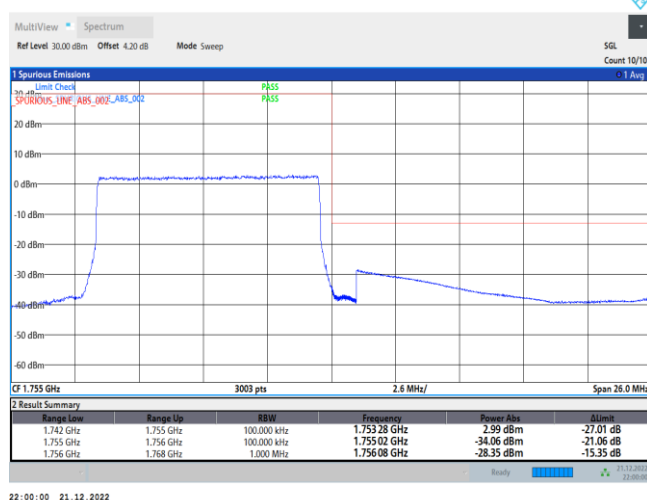
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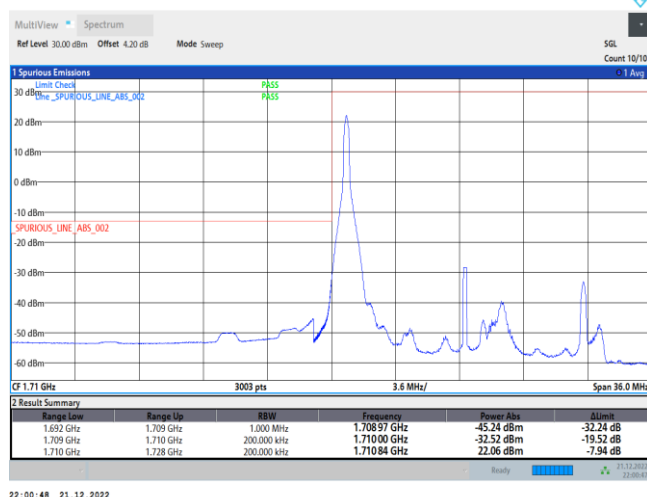
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Band4-15MHz-QPSK-20025-1RB#0



Band4-15MHz-QPSK-20025-75RB#0



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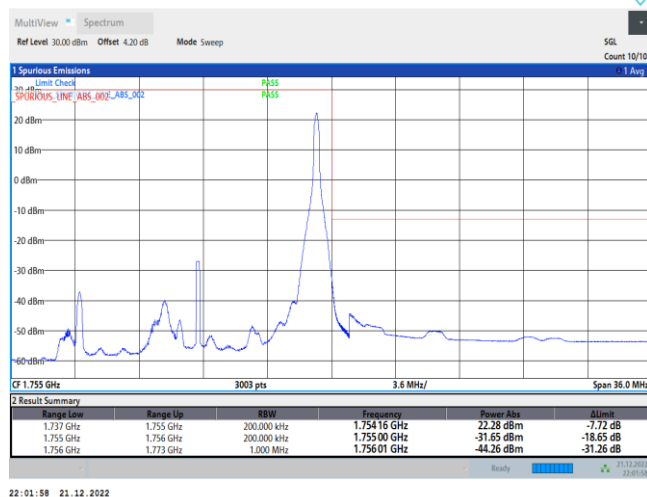
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Band4-15MHz-QPSK-20325-1RB#74



22:01:58 21.12.2022

Band4-15MHz-QPSK-20325-75RB#0



22:02:21 21.12.2022



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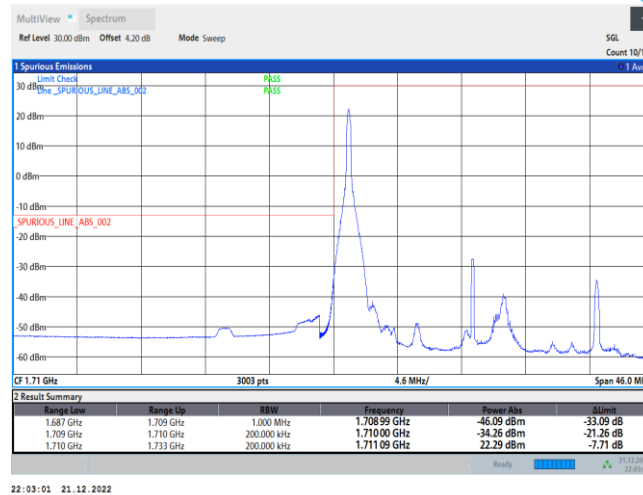
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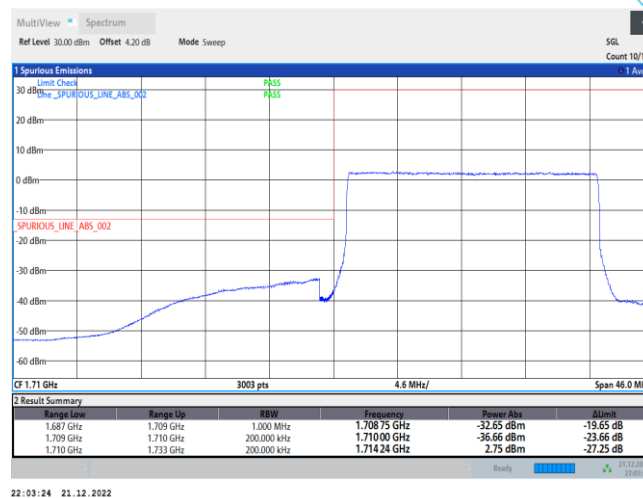
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Band4-20MHz-QPSK-20050-1RB#0



Band4-20MHz-QPSK-20050-100RB#0



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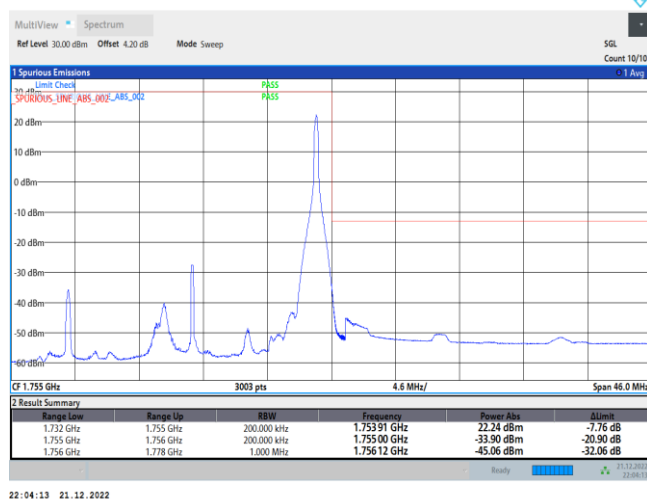
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Band4-20MHz-QPSK-20300-1RB#99



Band4-20MHz-QPSK-20300-100RB#0



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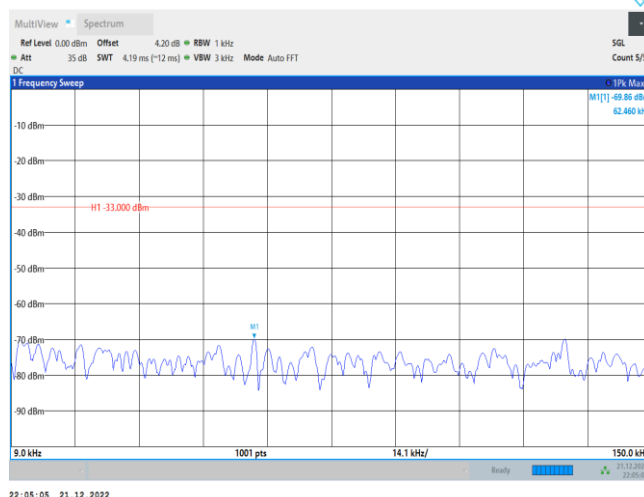
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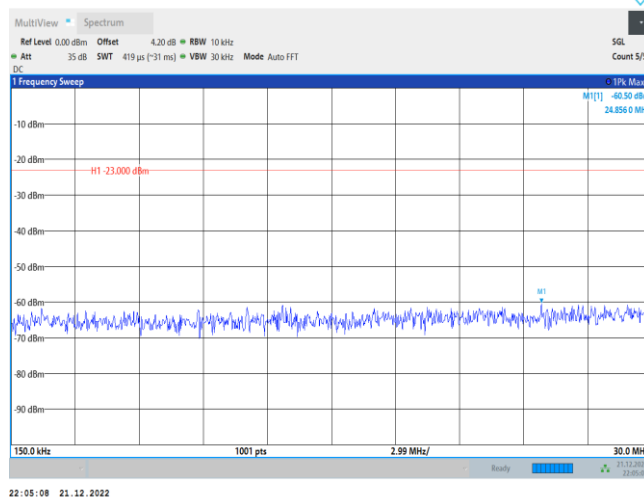
Conducted Spurious Emission

Test Graphs

Band4-20MHz-QPSK-20050-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20050-1RB#0-Range2:0.15~30MHz

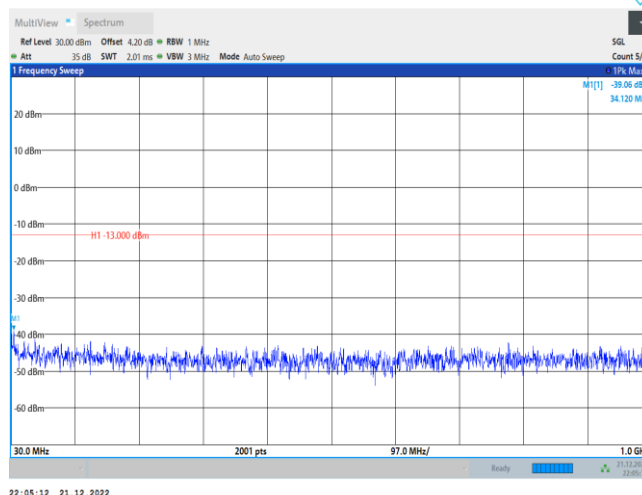


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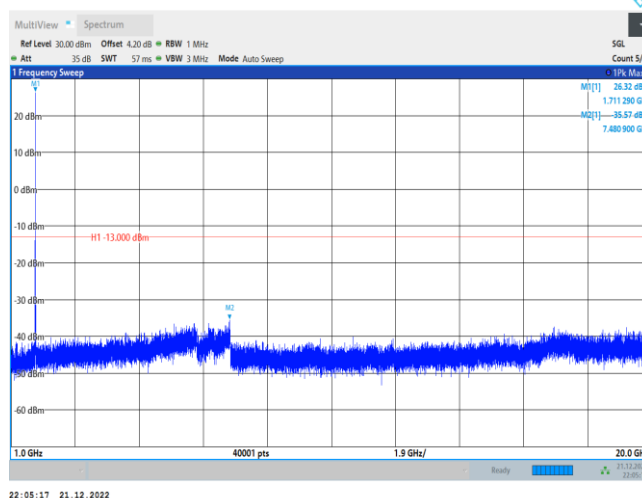
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Band4-20MHz-QPSK-20050-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20050-1RB#0-Range4:1000~20000MHz



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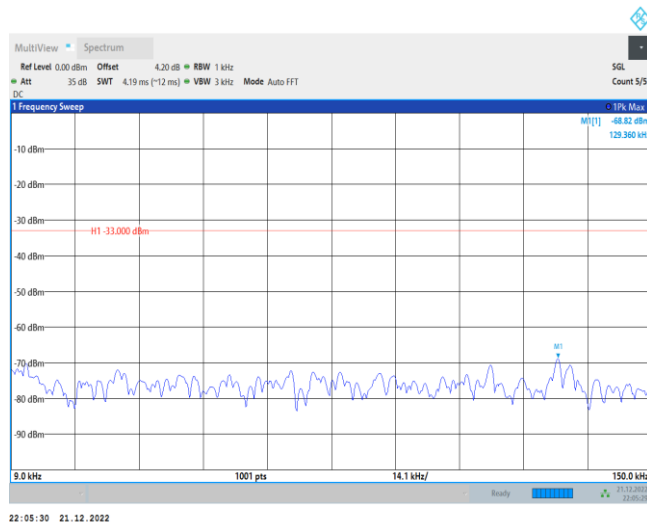
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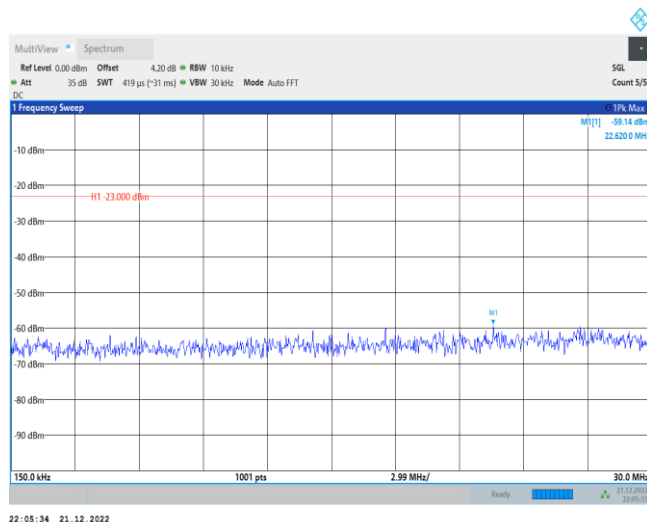
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Band4-20MHz-QPSK-20175-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20175-1RB#0-Range2:0.15~30MHz



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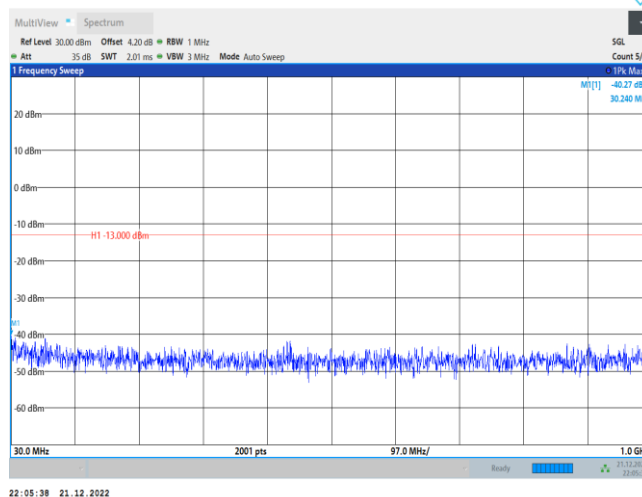
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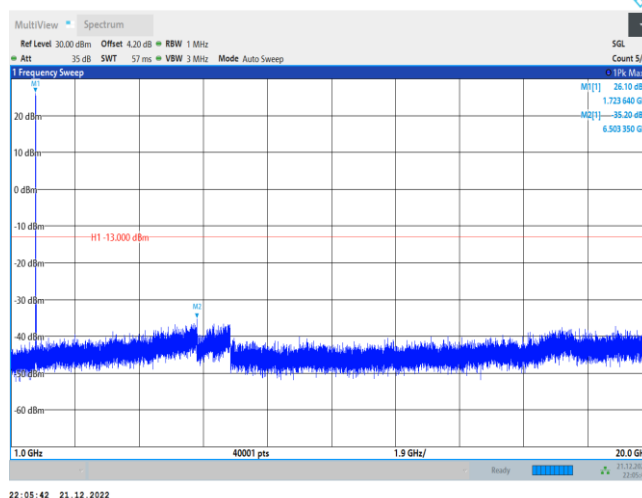
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Band4-20MHz-QPSK-20175-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20175-1RB#0-Range4:1000~20000MHz



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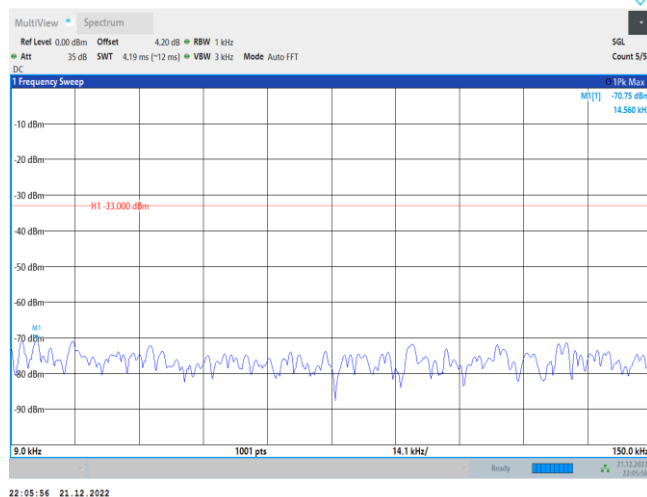
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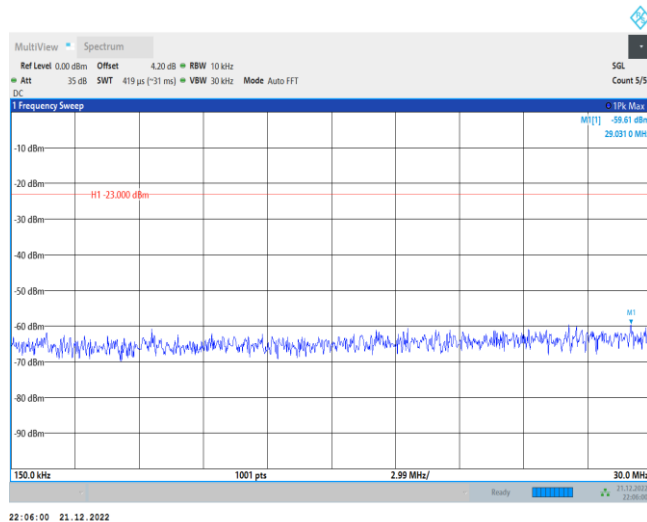
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Band4-20MHz-QPSK-20300-1RB#0-Range1:0.009~0.15MHz



Band4-20MHz-QPSK-20300-1RB#0-Range2:0.15~30MHz



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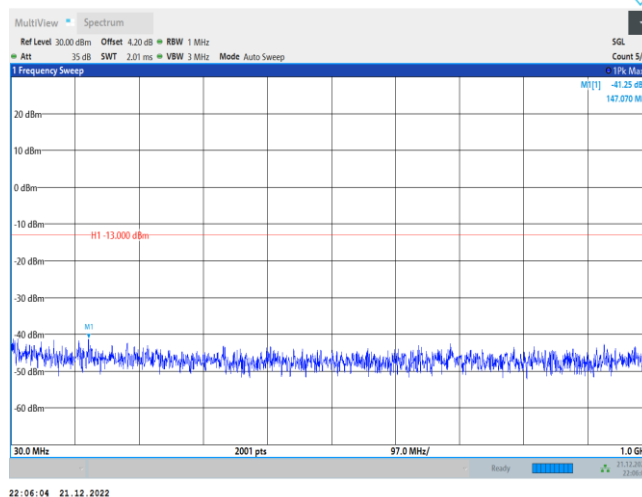
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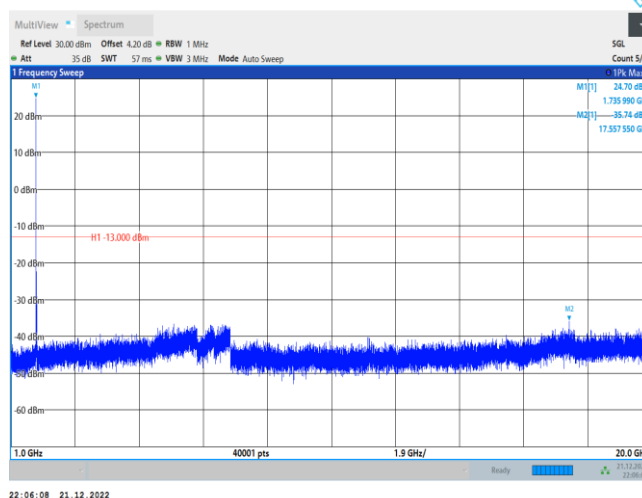
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Band4-20MHz-QPSK-20300-1RB#0-Range3:30~1000MHz



Band4-20MHz-QPSK-20300-1RB#0-Range4:1000~20000MHz



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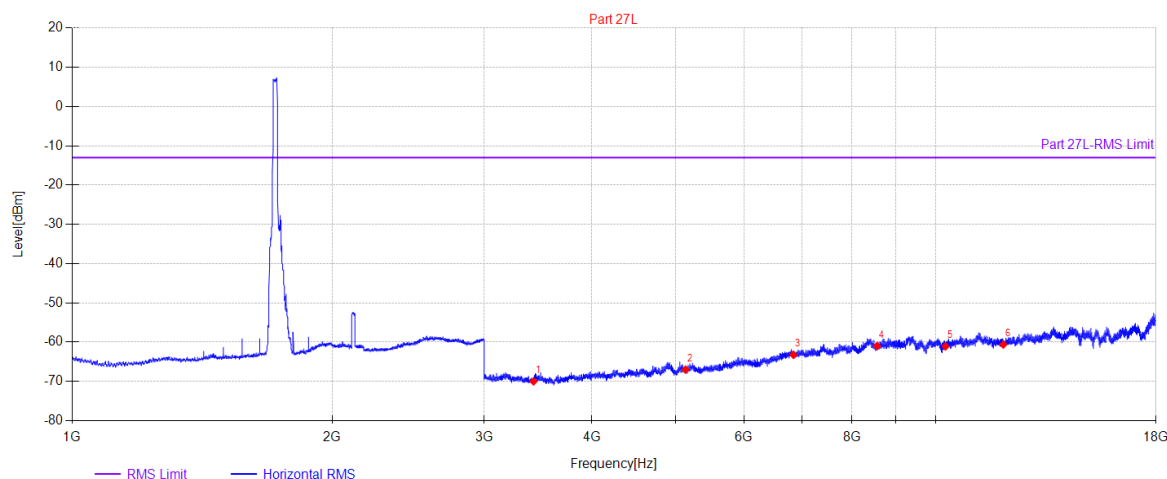
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Field Strength of Spurious Radiation

Test Band = LTE Band4_16QAM_5MHz_TM1

Test Channel = Low



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	42.10	-46.28	29.45	-69.99	-13.00	56.99	215	29	Horizontal
2	5133.2700	40.66	-45.34	32.95	-66.99	-13.00	53.99	148	29	Horizontal
3	6844.3600	40.29	-44.14	35.89	-63.22	-13.00	50.22	136	356	Horizontal
4	8555.4500	38.08	-41.46	37.66	-60.98	-13.00	47.98	291	254	Horizontal
5	10266.5400	34.57	-39.23	38.83	-61.09	-13.00	48.09	184	0	Horizontal
6	11977.6300	33.22	-37.51	38.95	-60.61	-13.00	47.61	175	103	Horizontal



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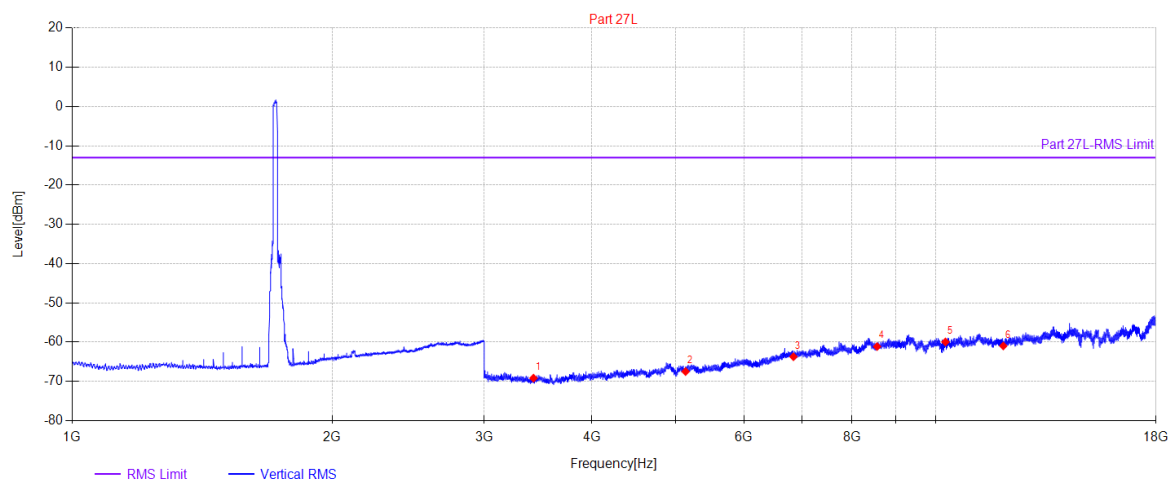
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3422.1800	42.92	-46.28	29.45	-69.17	-13.00	56.17	288	135	Vertical
2	5133.2700	40.16	-45.34	32.95	-67.49	-13.00	54.49	145	150	Vertical
3	6844.3600	39.79	-44.14	35.89	-63.72	-13.00	50.72	168	272	Vertical
4	8555.4500	37.94	-41.46	37.66	-61.12	-13.00	48.12	192	7	Vertical
5	10266.5400	35.71	-39.23	38.83	-59.95	-13.00	46.95	174	16	Vertical
6	11977.6300	32.87	-37.51	38.95	-60.96	-13.00	47.96	143	0	Vertical



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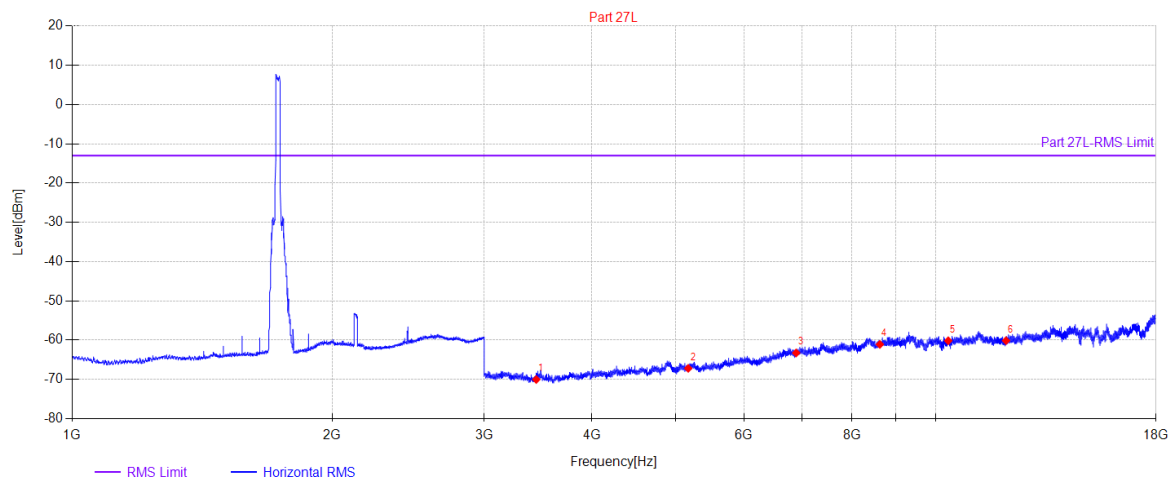
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Test Band = LTE Band4_16QAM_5MHz _ TM1

Test Channel = Mid



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	42.04	-46.27	29.47	-70.02	-13.00	57.02	227	227	Horizontal
2	5170.7700	40.41	-45.31	32.97	-67.18	-13.00	54.18	184	210	Horizontal
3	6894.3600	40.16	-44.10	35.95	-63.25	-13.00	50.25	186	135	Horizontal
4	8617.9500	37.79	-41.40	37.78	-61.09	-13.00	48.09	256	0	Horizontal
5	10341.5400	35.32	-39.06	38.85	-60.15	-13.00	47.15	213	104	Horizontal
6	12065.1300	33.56	-37.44	39.02	-60.12	-13.00	47.12	241	256	Horizontal



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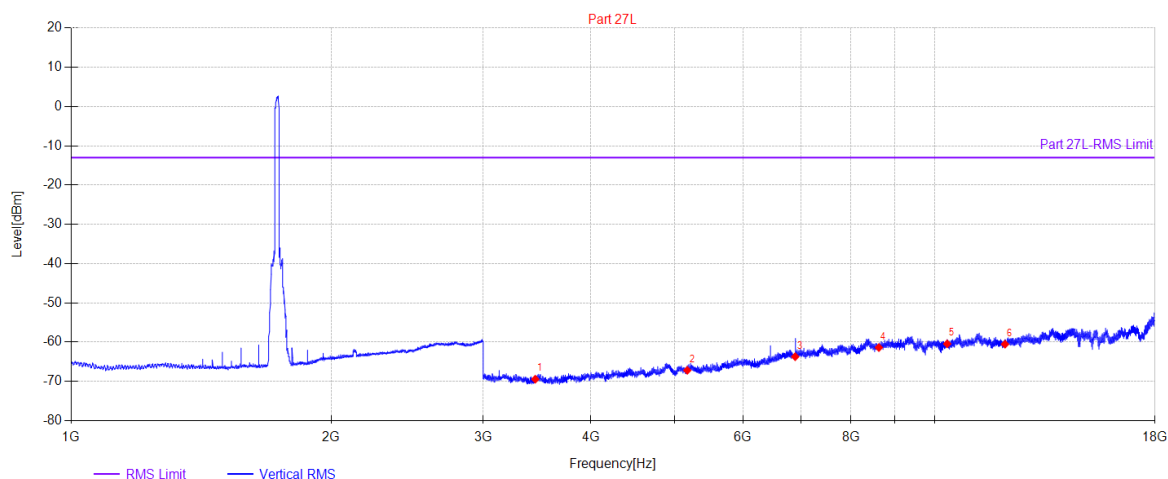
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3447.1800	42.62	-46.27	29.47	-69.44	-13.00	56.44	145	180	Vertical
2	5170.7700	40.42	-45.31	32.97	-67.17	-13.00	54.17	256	285	Vertical
3	6894.3600	39.71	-44.10	35.95	-63.70	-13.00	50.70	233	104	Vertical
4	8617.9500	37.50	-41.40	37.78	-61.38	-13.00	48.38	261	331	Vertical
5	10341.5400	35.04	-39.06	38.85	-60.43	-13.00	47.43	199	301	Vertical
6	12065.1300	33.16	-37.44	39.02	-60.52	-13.00	47.52	184	1	Vertical



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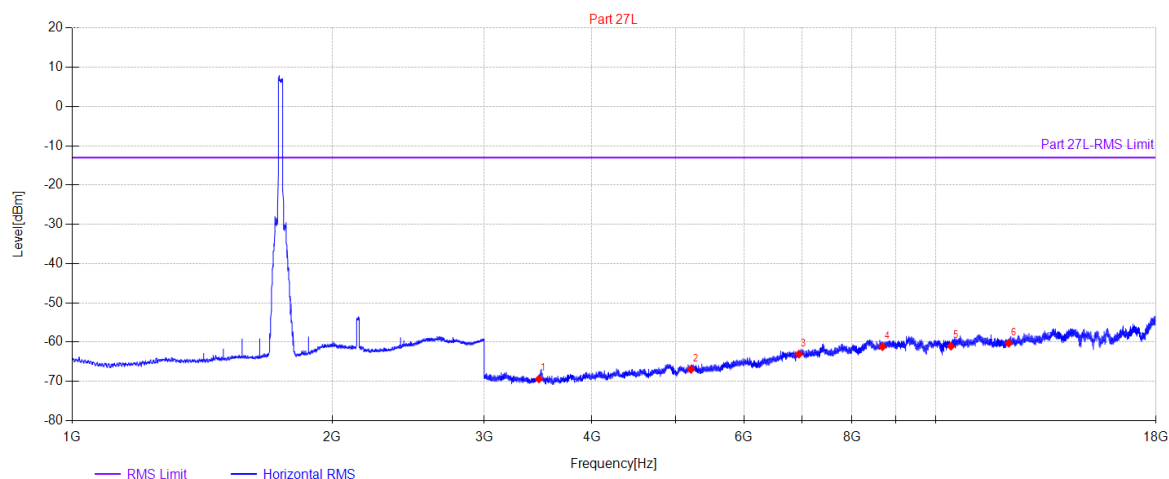
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Test Band = LTE Band4_16QAM_5MHz _ TM1

Test Channel = High



Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	42.64	-46.27	29.50	-69.39	-13.00	56.39	125	242	Horizontal
2	5208.2700	40.60	-45.26	32.98	-66.94	-13.00	53.94	144	270	Horizontal
3	6944.3600	40.05	-43.85	36.01	-63.05	-13.00	50.05	189	90	Horizontal
4	8680.4500	37.83	-41.62	37.88	-61.17	-13.00	48.17	197	3	Horizontal
5	10416.5400	34.31	-38.97	38.88	-61.05	-13.00	48.05	142	242	Horizontal
6	12152.6300	33.32	-37.42	39.09	-60.27	-13.00	47.27	153	196	Horizontal



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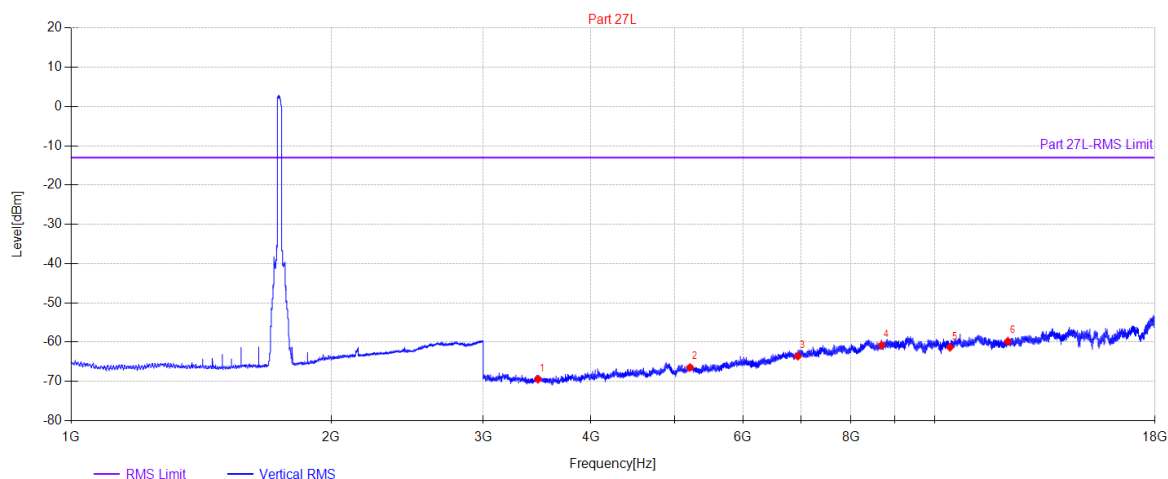
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Data List

NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3472.1800	42.55	-46.27	29.50	-69.48	-13.00	56.48	245	357	Vertical
2	5208.2700	41.08	-45.26	32.98	-66.46	-13.00	53.46	156	270	Vertical
3	6944.3600	39.50	-43.85	36.01	-63.60	-13.00	50.60	233	316	Vertical
4	8680.4500	38.20	-41.62	37.88	-60.80	-13.00	47.80	219	15	Vertical
5	10416.5400	34.01	-38.97	38.88	-61.35	-13.00	48.35	191	7	Vertical
6	12152.6300	33.78	-37.42	39.09	-59.81	-13.00	46.81	174	212	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 (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	VL	NT	-0.60	-0.000346	PASS
Band4	20MHz	QPSK	20175	100RB#0	VN	NT	-0.50	-0.000289	PASS
Band4	20MHz	QPSK	20175	100RB#0	VH	NT	-1.90	-0.001097	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band4	20MHz	QPSK	20175	100RB#0	NV	-30	-1.00	-0.000577	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-20	-1.30	-0.000750	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	-10	-1.10	-0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	0	0.00	0.000000	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	10	0.70	0.000404	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	20	-1.10	-0.000635	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	30	-1.60	-0.000924	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	40	-0.90	-0.000519	PASS
Band4	20MHz	QPSK	20175	100RB#0	NV	50	-2.40	-0.001385	PASS

---End of Attachment---



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