

Report No.: SUHR/2022/1000601

Rev.: 01

Page: 1 of 35

Appendix



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Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band13	5MHz	QPSK	23205	1RB#0	22.89	17.74	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#12	22.78	17.63	34.77	PASS
Band13	5MHz	QPSK	23205	1RB#24	22.77	17.62	34.77	PASS
Band13	5MHz	QPSK	23205	25RB#0	22.43	17.28	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#0	22.67	17.52	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#12	22.91	17.76	34.77	PASS
Band13	5MHz	QPSK	23230	1RB#24	22.67	17.52	34.77	PASS
Band13	5MHz	QPSK	23230	25RB#0	22.35	17.2	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#0	22.72	17.57	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#12	22.78	17.63	34.77	PASS
Band13	5MHz	QPSK	23255	1RB#24	22.74	17.59	34.77	PASS
Band13	5MHz	QPSK	23255	25RB#0	22.43	17.28	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#0	22.31	17.16	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#12	22.66	17.51	34.77	PASS
Band13	5MHz	16QAM	23205	1RB#24	22.65	17.5	34.77	PASS
Band13	5MHz	16QAM	23205	25RB#0	21.52	16.37	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#0	22.68	17.53	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#12	22.79	17.64	34.77	PASS
Band13	5MHz	16QAM	23230	1RB#24	22.67	17.52	34.77	PASS
Band13	5MHz	16QAM	23230	25RB#0	21.55	16.4	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#0	22.63	17.48	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#12	22.62	17.47	34.77	PASS
Band13	5MHz	16QAM	23255	1RB#24	22.59	17.44	34.77	PASS
Band13	5MHz	16QAM	23255	25RB#0	21.43	16.28	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#0	21.39	16.24	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#12	21.6	16.45	34.77	PASS
Band13	5MHz	64QAM	23205	1RB#24	21.63	16.48	34.77	PASS



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Band13	5MHz	64QAM	23205	25RB#0	20.41	15.26	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#0	21.63	16.48	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#12	21.69	16.54	34.77	PASS
Band13	5MHz	64QAM	23230	1RB#24	21.5	16.35	34.77	PASS
Band13	5MHz	64QAM	23230	25RB#0	20.47	15.32	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#0	21.52	16.37	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#12	21.57	16.42	34.77	PASS
Band13	5MHz	64QAM	23255	1RB#24	21.46	16.31	34.77	PASS
Band13	5MHz	64QAM	23255	25RB#0	20.46	15.31	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#0	22.72	17.57	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#24	22.66	17.51	34.77	PASS
Band13	10MHz	QPSK	23230	1RB#49	22.72	17.57	34.77	PASS
Band13	10MHz	QPSK	23230	50RB#0	22.28	17.13	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#0	22.58	17.43	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#24	22.55	17.4	34.77	PASS
Band13	10MHz	16QAM	23230	1RB#49	22.65	17.5	34.77	PASS
Band13	10MHz	16QAM	23230	50RB#0	21.23	16.08	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#0	21.63	16.48	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#24	21.6	16.45	34.77	PASS
Band13	10MHz	64QAM	23230	1RB#49	21.68	16.53	34.77	PASS
Band13	10MHz	64QAM	23230	50RB#0	20.37	15.22	34.77	PASS



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Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	5.12	13	PASS
Band13	10MHz	16QAM	23230	50RB#0	5.98	13	PASS
Band13	10MHz	64QAM	23230	50RB#0	6.38	13	PASS



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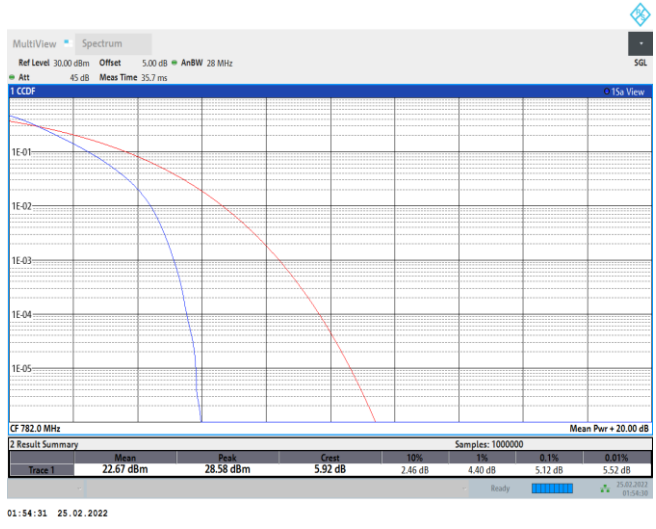
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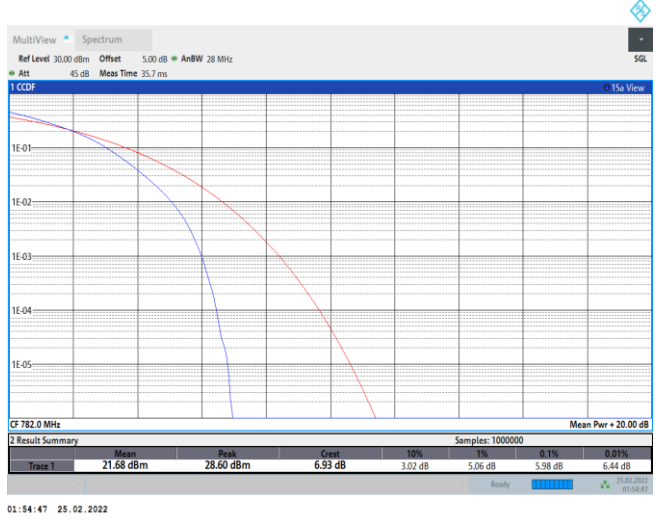
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Test Graphs

Band13-10MHz-QPSK-23230-50RB#0



Band13-10MHz-16QAM-23230-50RB#0

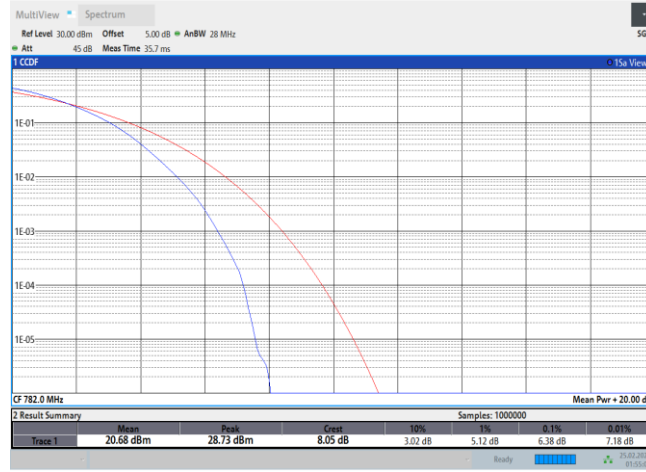


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Band13-10MHz-64QAM-23230-50RB#0



01:55:03 25.02.2022



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Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band13	10MHz	QPSK	23230	50RB#0	PASS	PASS
Band13	10MHz	16QAM	23230	50RB#0	PASS	PASS
Band13	10MHz	64QAM	23230	50RB#0	PASS	PASS



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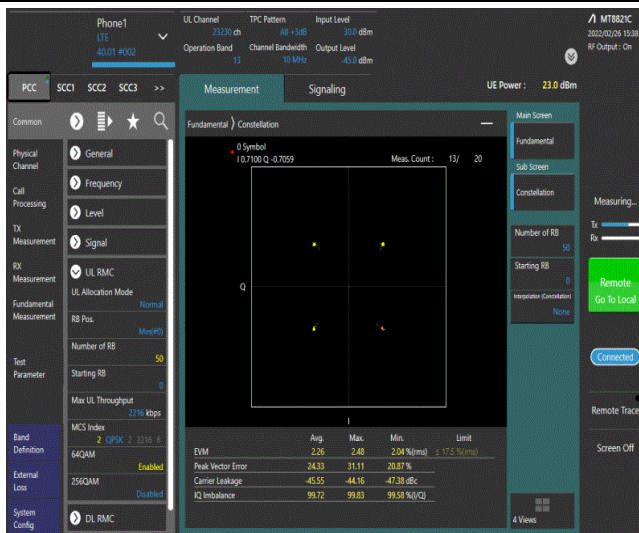
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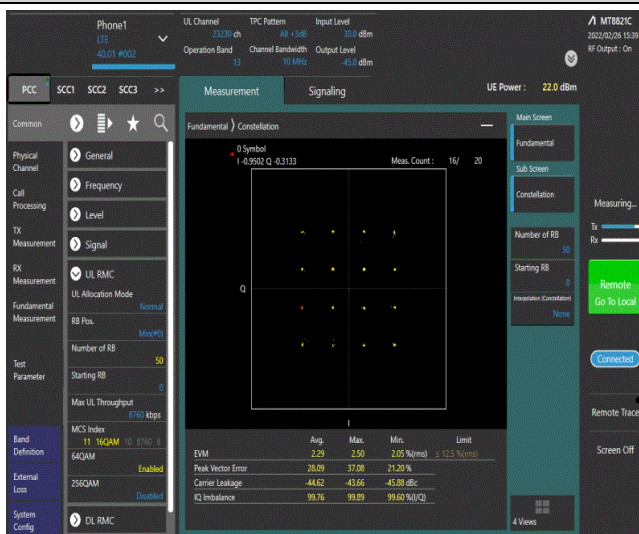
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Test Graphs

Band13-10MHz-QPSK-23230-50RB#0

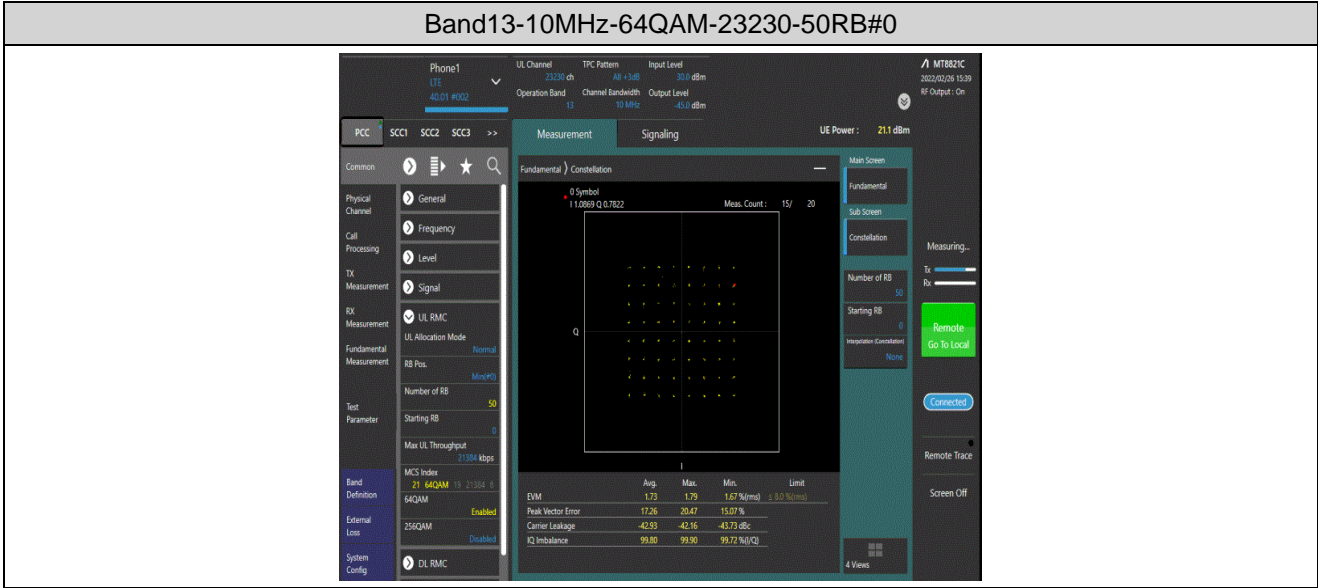


Band13-10MHz-16QAM-23230-50RB#0



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26dB Bandwidth and Occupied Bandwidth

Test Result

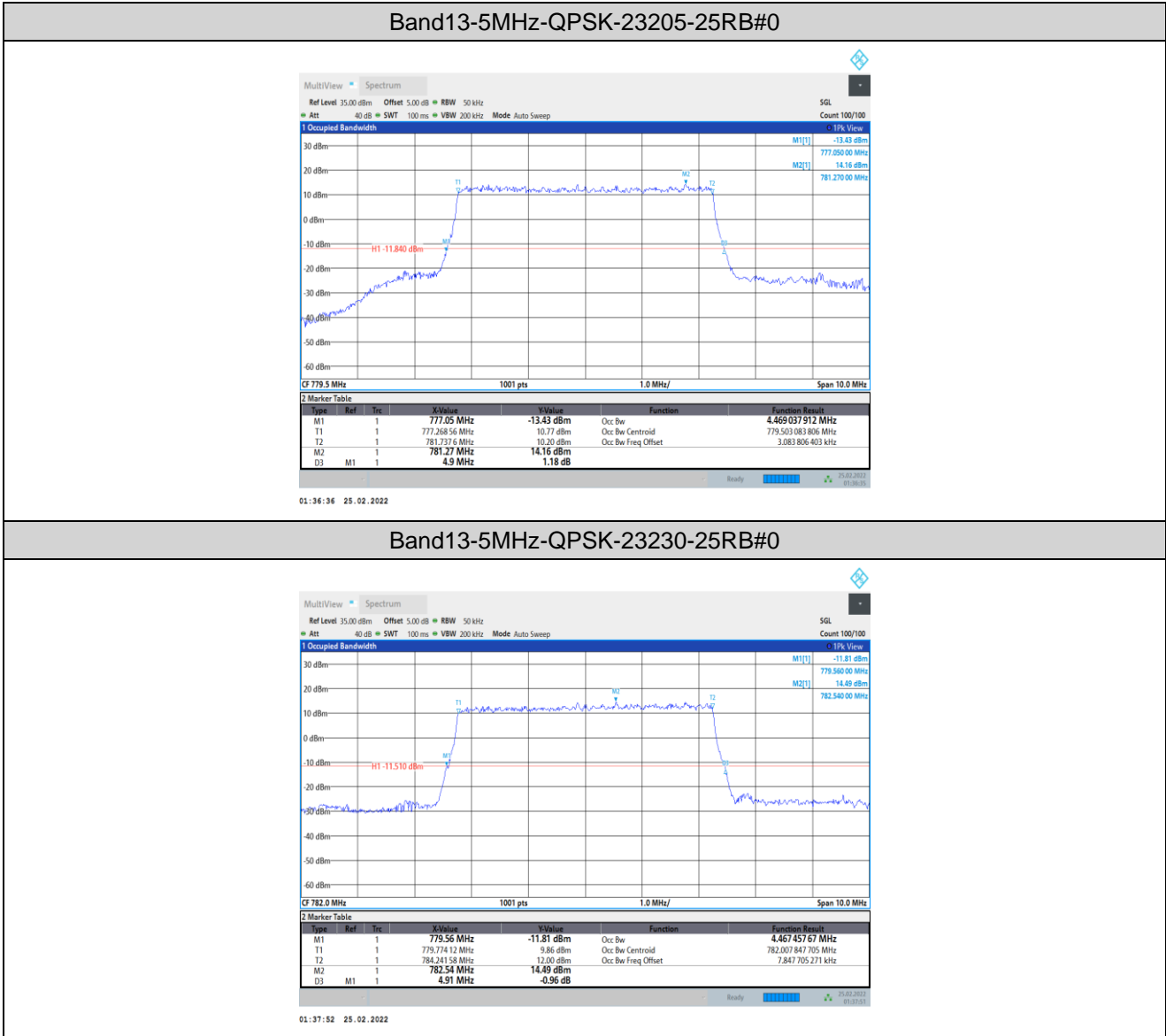
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band13	5MHz	QPSK	23205	25RB#0	4.469	4.90	PASS
Band13	5MHz	QPSK	23230	25RB#0	4.467	4.91	PASS
Band13	5MHz	QPSK	23255	25RB#0	4.465	4.89	PASS
Band13	5MHz	16QAM	23205	25RB#0	4.474	4.94	PASS
Band13	5MHz	16QAM	23230	25RB#0	4.469	4.90	PASS
Band13	5MHz	16QAM	23255	25RB#0	4.468	4.90	PASS
Band13	5MHz	64QAM	23205	25RB#0	4.481	4.90	PASS
Band13	5MHz	64QAM	23230	25RB#0	4.478	4.88	PASS
Band13	5MHz	64QAM	23255	25RB#0	4.477	4.90	PASS
Band13	10MHz	QPSK	23230	50RB#0	8.934	9.58	PASS
Band13	10MHz	16QAM	23230	50RB#0	8.919	9.62	PASS
Band13	10MHz	64QAM	23230	50RB#0	8.932	9.64	PASS



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Test Graphs

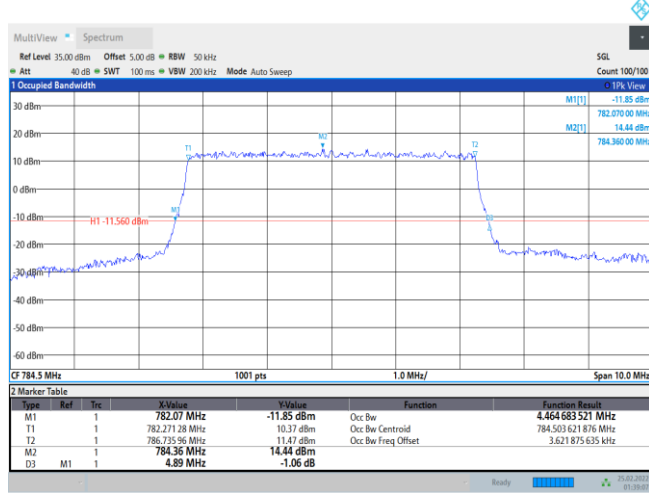


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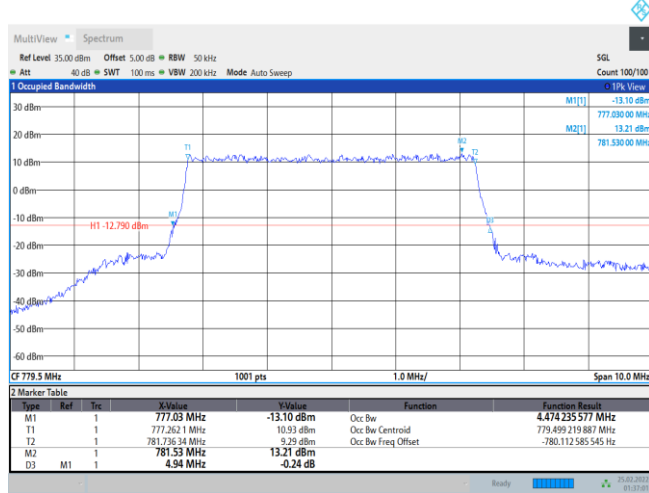
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Band13-5MHz-QPSK-23255-25RB#0



01:39:08 25.02.2022

Band13-5MHz-16QAM-23205-25RB#0



01:37:02 25.02.2022



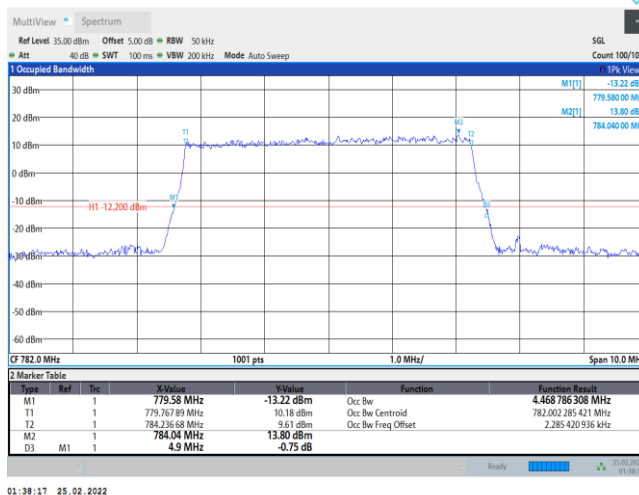
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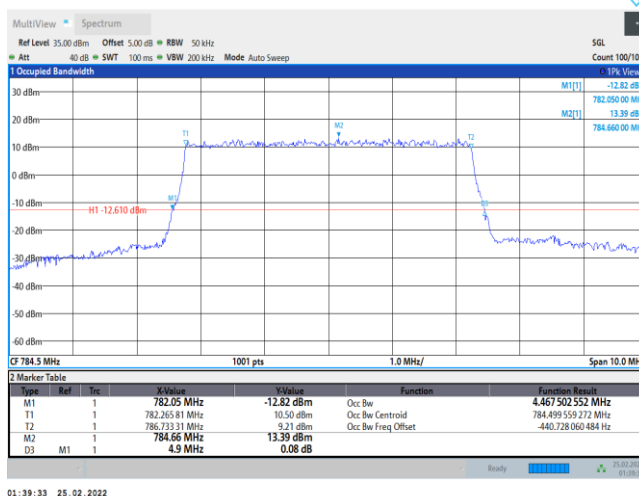
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Band13-5MHz-16QAM-23230-25RB#0



01:38:17 25.02.2022

Band13-5MHz-16QAM-23255-25RB#0



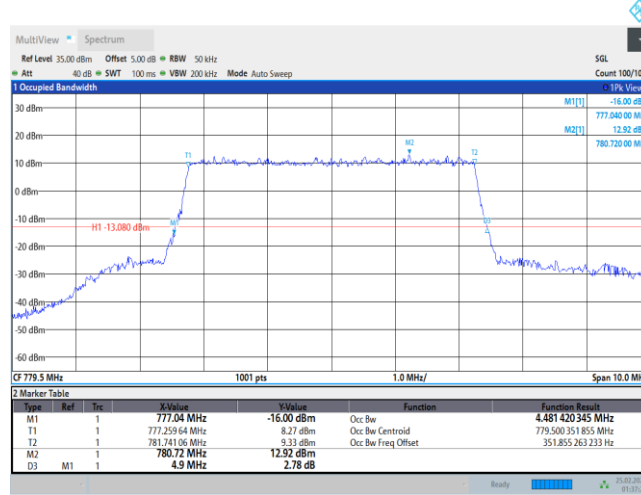
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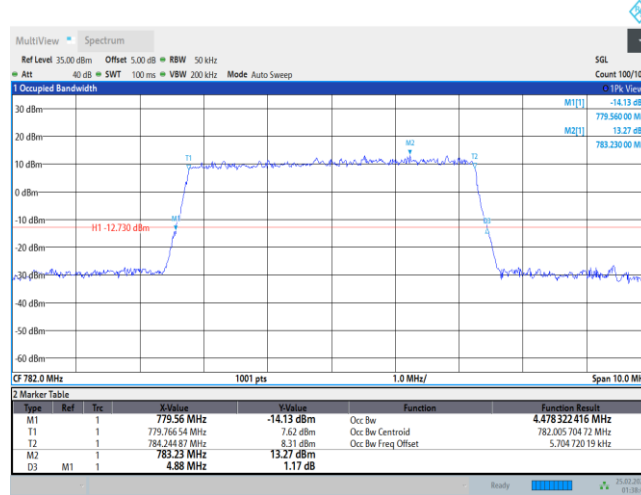
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Band13-5MHz-64QAM-23205-25RB#0



01:37:27 25.02.2022

Band13-5MHz-64QAM-23230-25RB#0



01:38:42 25.02.2022



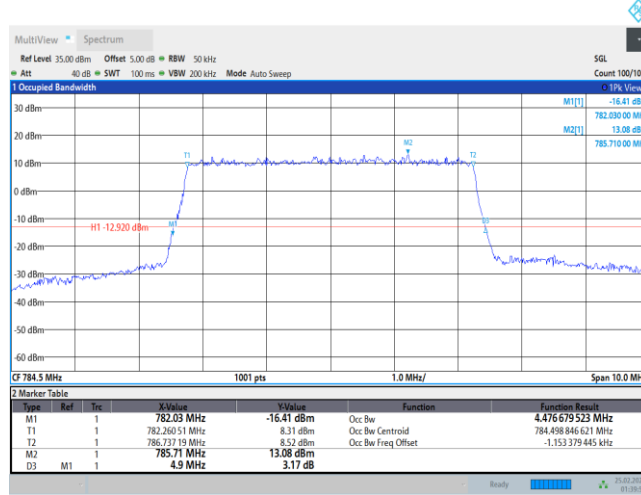
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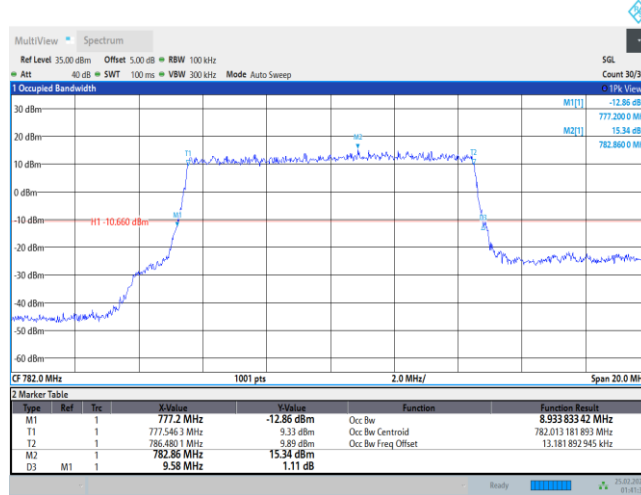
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Band13-5MHz-64QAM-23255-25RB#0



01:39:58 25.02.2022

Band13-10MHz-QPSK-23230-50RB#0



01:41:37 25.02.2022



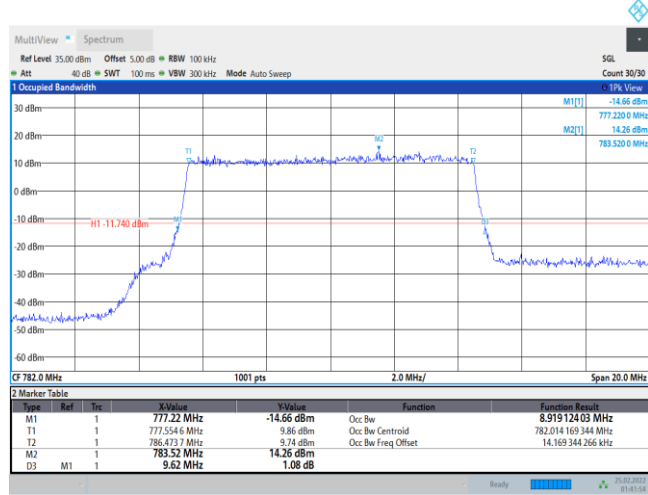
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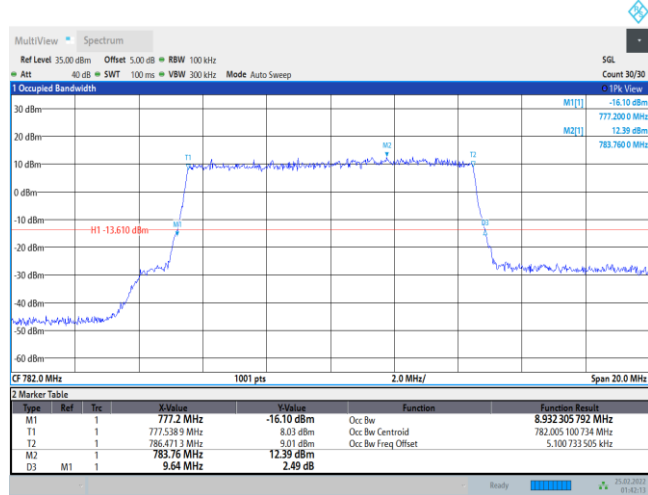
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Band13-10MHz-16QAM-23230-50RB#0



01:41:55 25.02.2022

Band13-10MHz-64QAM-23230-50RB#0



01:42:13 25.02.2022



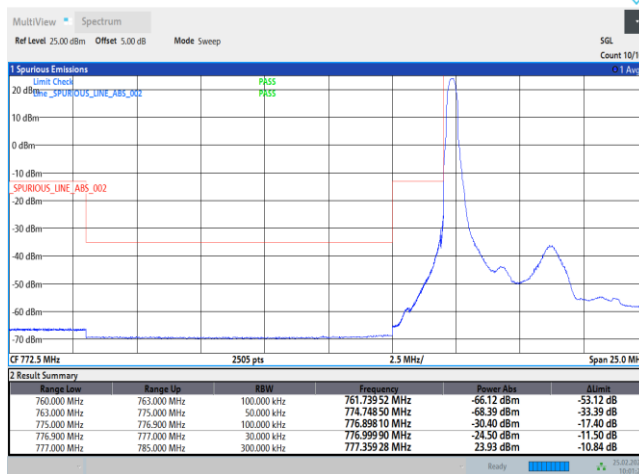
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Band Edge

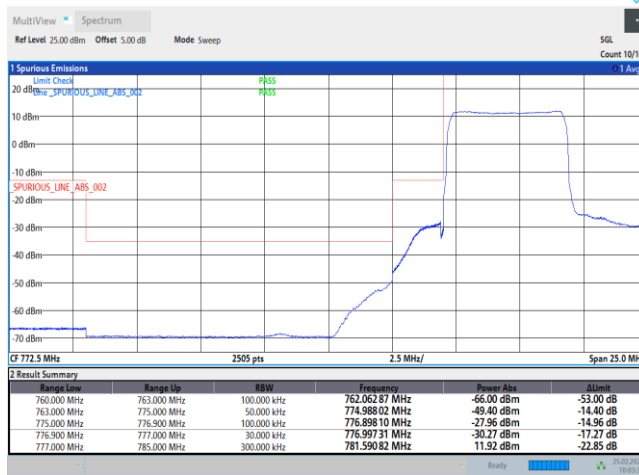
Test Graphs

Band13-5MHz-QPSK-23205-1RB#0



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Band13-5MHz-QPSK-23205-25RB#0



10:03:34 25.02.2022



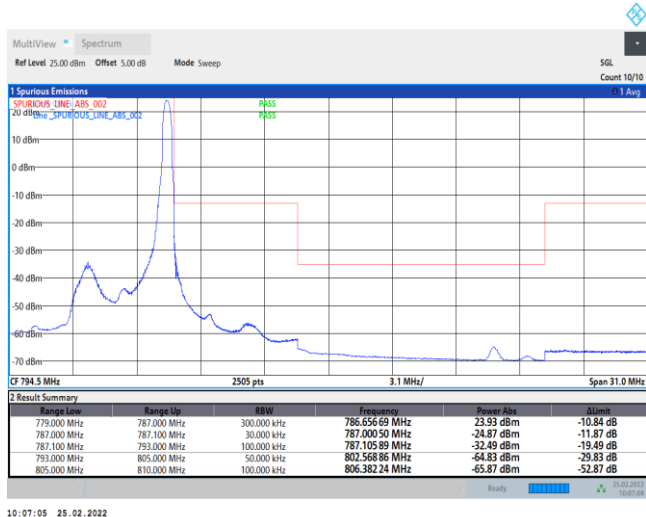
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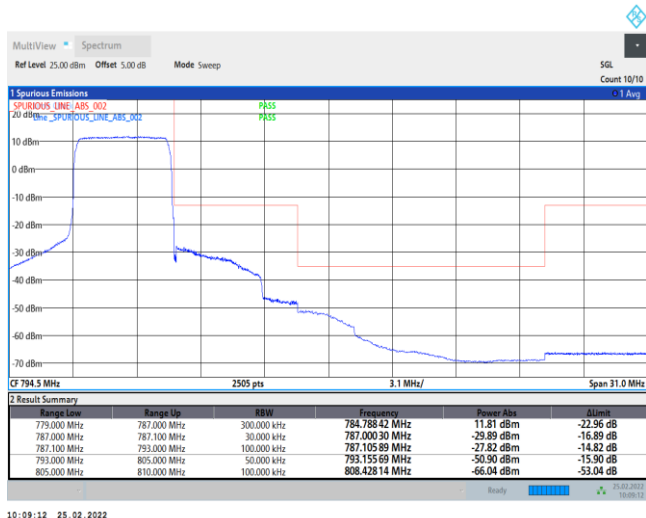
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Band13-5MHz-QPSK-23255-1RB#24



10:07:05 25.02.2022

Band13-5MHz-QPSK-23255-25RB#0



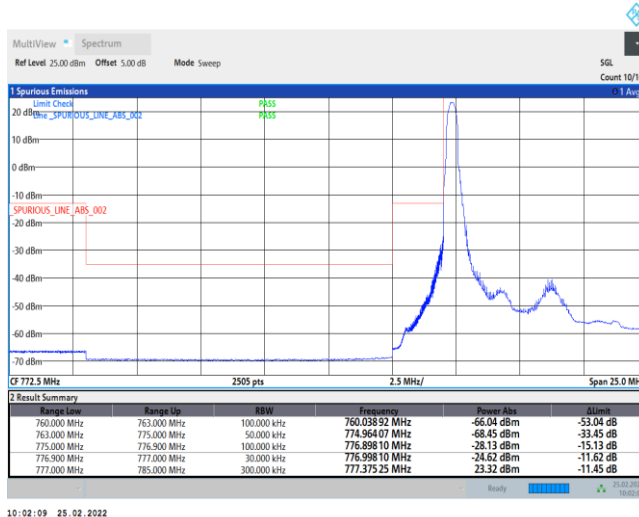
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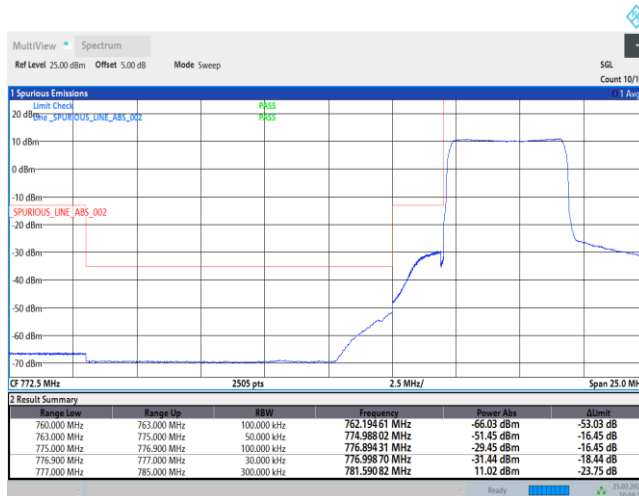
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Band13-5MHz-16QAM-23205-1RB#0



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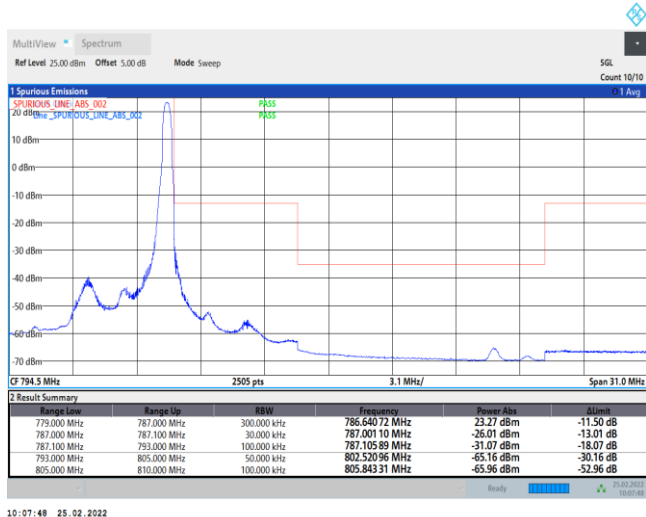
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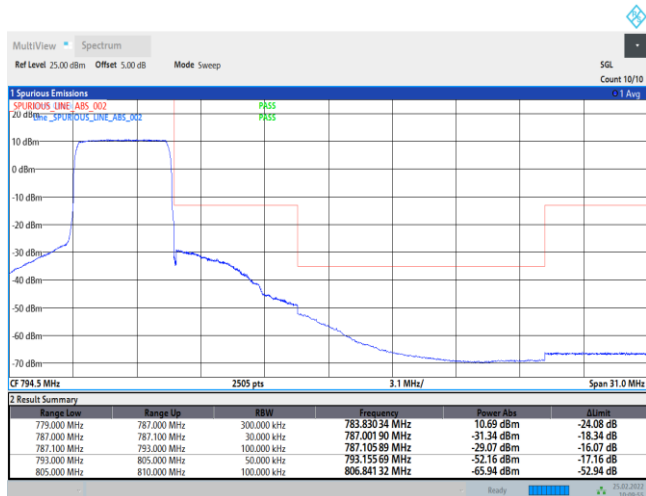
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Band13-5MHz-16QAM-23255-25RB#0



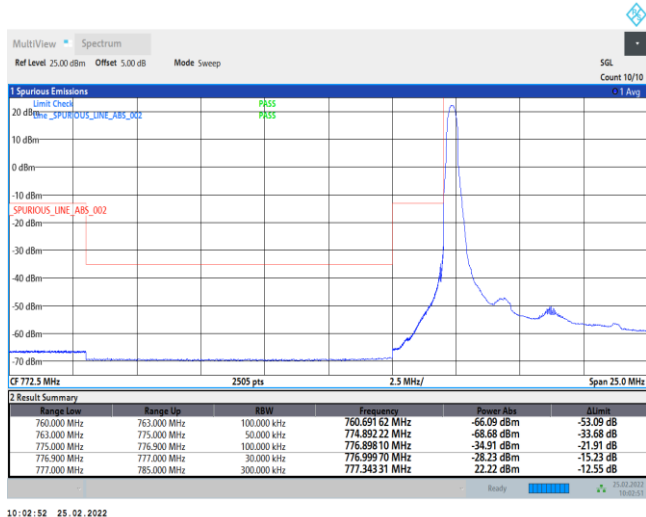
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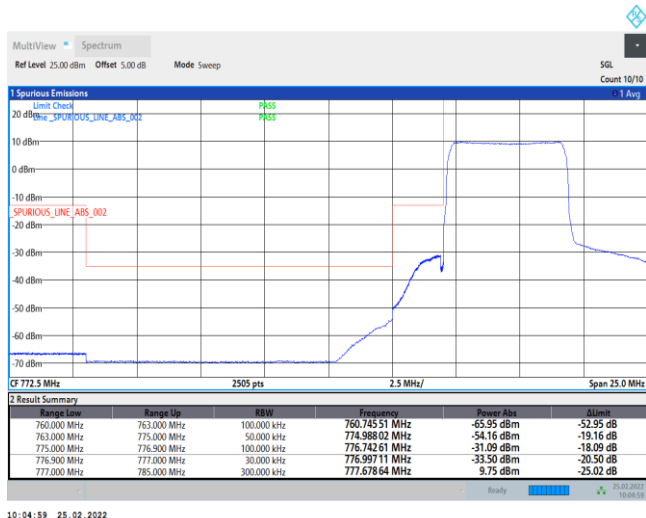
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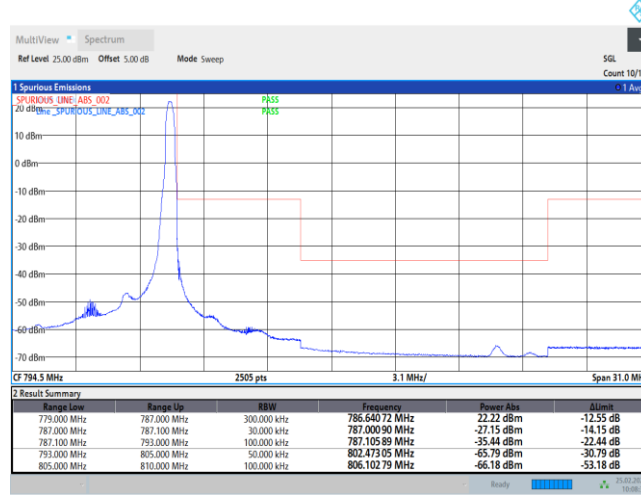
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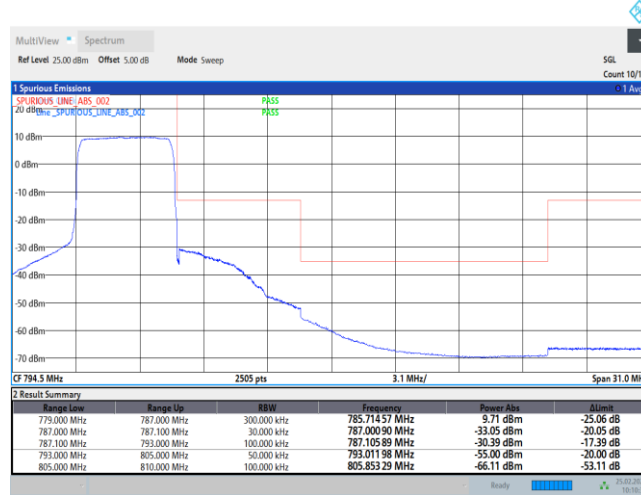
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Band13-5MHz-64QAM-23255-1RB#24



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Band13-5MHz-64QAM-23255-25RB#0



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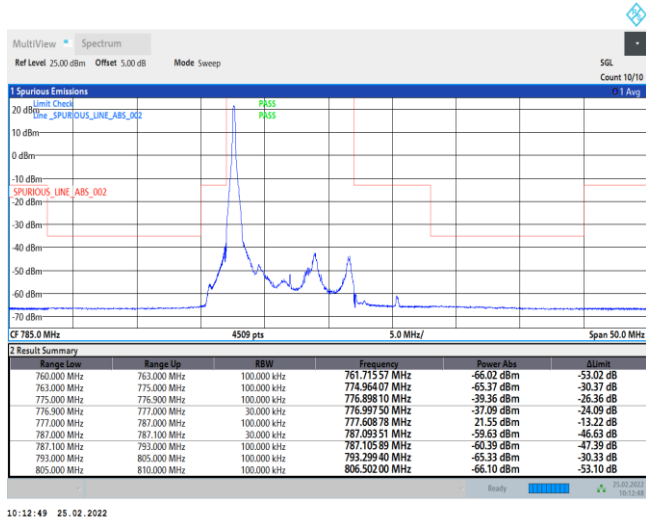


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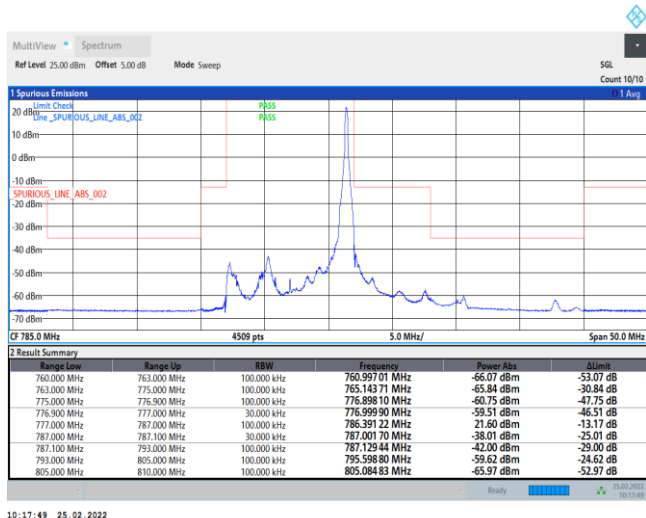
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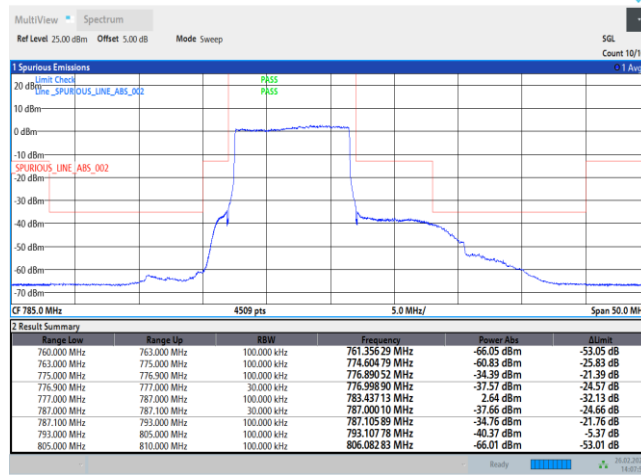
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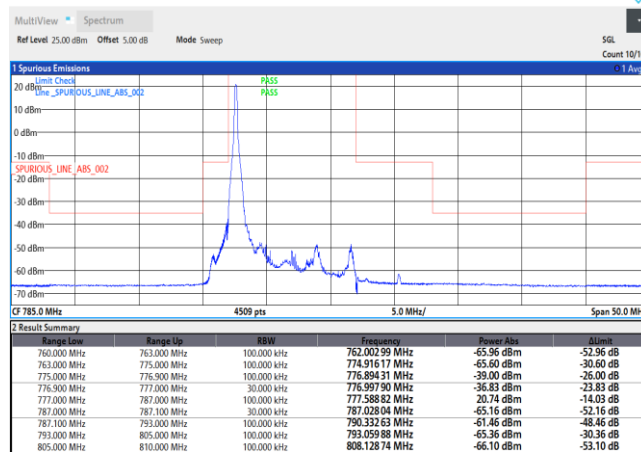
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Band13-10MHz-QPSK-23230-50RB#0



14:07:50 26.02.2022

Band13-10MHz-16QAM-23230-1RB#0



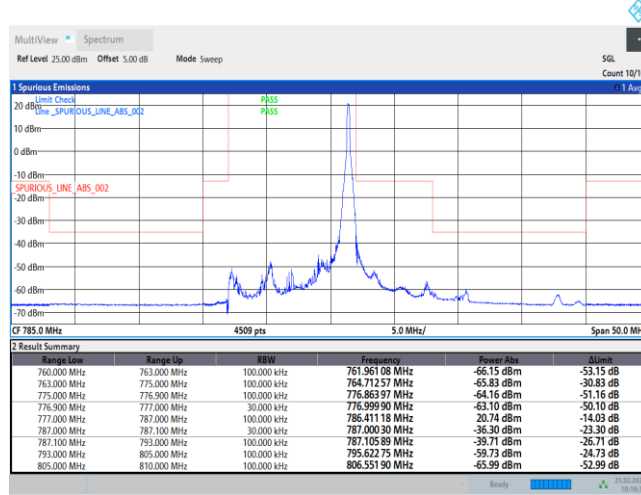
10:13:37 25.02.2022



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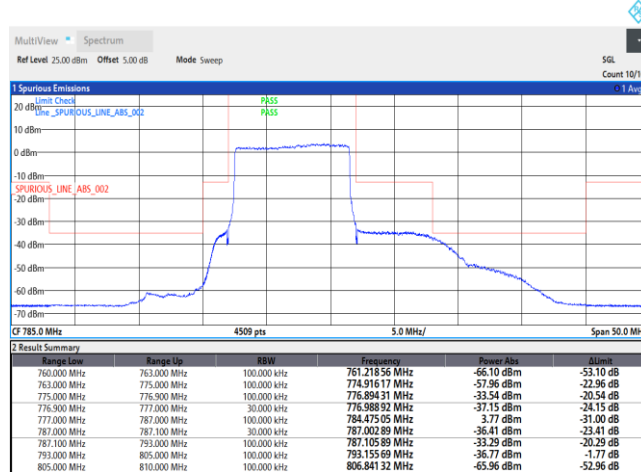
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Band13-10MHz-16QAM-23230-1RB#49



10:18:38 25.02.2022

Band13-10MHz-16QAM-23230-50RB#0



10:21:03 25.02.2022

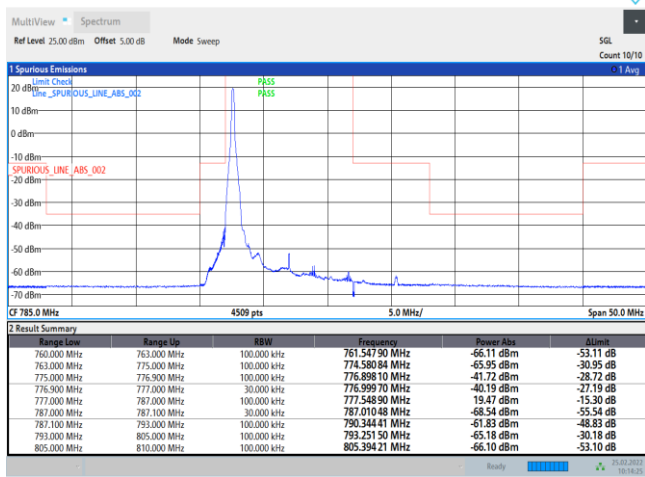


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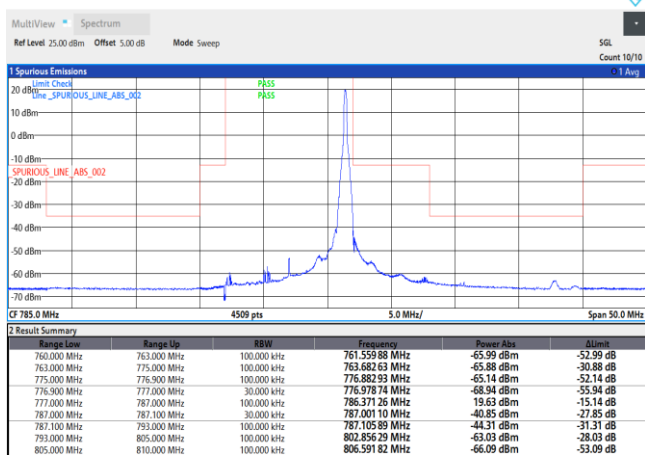
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Band13-10MHz-64QAM-23230-1RB#0



10:14:26 25.02.2022

Band13-10MHz-64QAM-23230-1RB#49



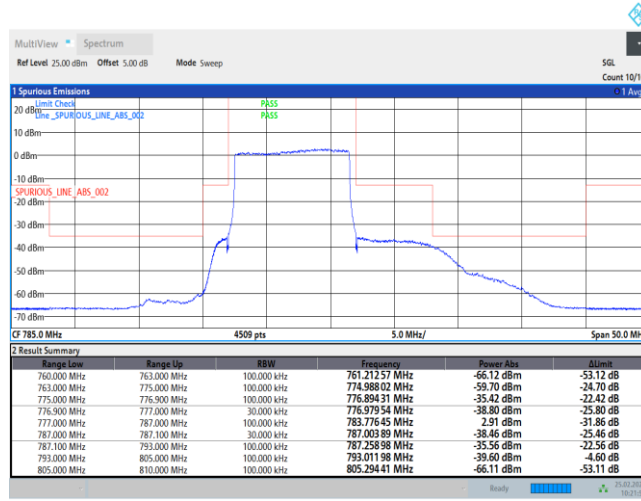
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Band13-10MHz-64QAM-23230-50RB#0



10:21:51 25.02.2022



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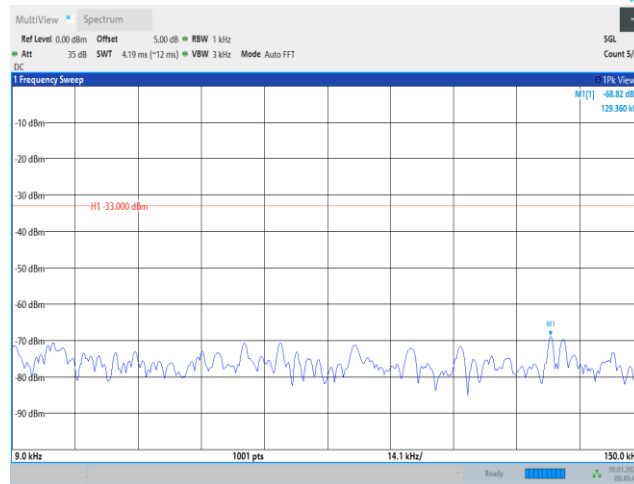
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Conducted Spurious Emission

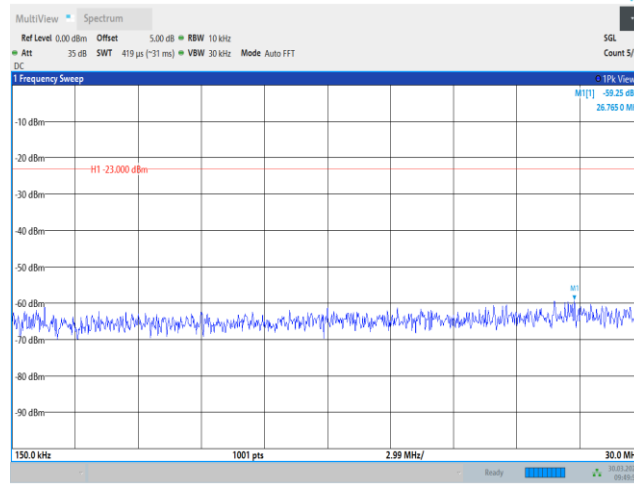
Test Graphs

Band13-10MHz-QPSK-23230-1RB#0-Range1:0.009~0.15MHz



09:49:42 25.02.2022

Band13-10MHz-QPSK-23230-1RB#0-Range2:0.15~30MHz



09:49:50 25.02.2022



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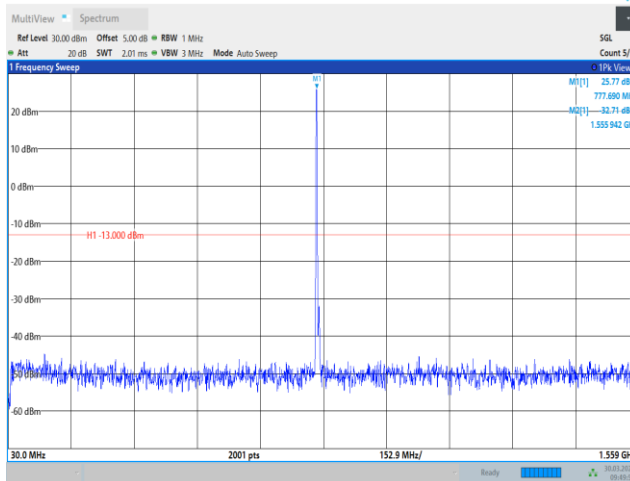
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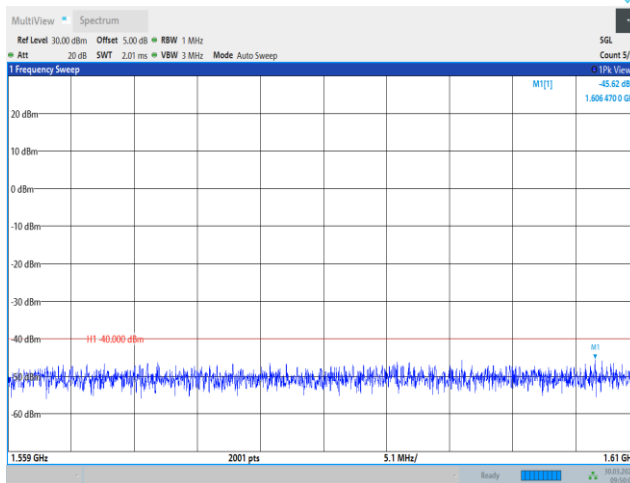
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Band13-10MHz-QPSK-23230-1RB#0-Range3:30~1559MHz



Band13-10MHz-QPSK-23230-1RB#0-Range4:1559~1610MHz

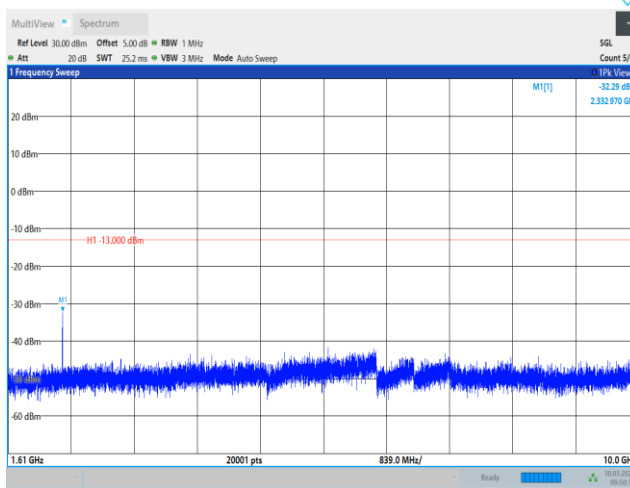


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Band13-10MHz-QPSK-23230-1RB#0-Range5:1610~10000MHz



09:50:15 25.02.2022



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Field Strength of Spurious Radiation

Test Band =LTE Band 13 BW 10M_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.18	57.64	-118.21	-60.57	-13.00	47.57	162	298	Horizontal
2	2332.77	53.83	-115.31	-61.48	-13.00	48.48	185	26	Horizontal
3	3110.36	50.70	-112.21	-61.51	-13.00	48.51	196	96	Horizontal
4	3887.95	50.19	-110.47	-60.28	-13.00	47.28	247	56	Horizontal
5	4665.54	49.68	-108.04	-58.36	-13.00	45.36	249	46	Horizontal
6	5443.13	52.18	-106.49	-54.31	-13.00	41.31	193	357	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1555.18	60.16	-118.21	-58.05	-13.00	45.05	162	252	Vertical
2	2332.77	57.23	-115.31	-58.08	-13.00	45.08	185	306	Vertical
3	3110.36	51.55	-112.21	-60.66	-13.00	47.66	145	351	Vertical
4	3887.95	50.13	-110.47	-60.34	-13.00	47.34	269	356	Vertical
5	4665.54	50.46	-108.04	-57.58	-13.00	44.58	148	84	Vertical
6	5443.13	52.29	-106.49	-54.20	-13.00	41.20	248	178	Vertical



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Test Band = LTE Band 13 BW 5M_ TM1

Test Channel = Low Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.68	52.92	-118.2	-65.29	-13.00	52.29	162	164	Horizontal
2	2332.02	52.45	-115.3	-62.86	-13.00	49.86	241	0	Horizontal
3	3109.36	51.89	-112.2	-60.33	-13.00	47.33	176	268	Horizontal
4	3886.7	50.29	-110.4	-60.18	-13.00	47.18	298	299	Horizontal
5	4664.04	50.84	-108.0	-57.20	-13.00	44.20	178	0	Horizontal
6	5441.38	51.27	-106.4	-55.22	-13.00	42.22	268	331	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1554.68	55.09	-118.2	-63.12	-13.00	50.12	163	71	Vertical
2	2332.02	51.90	-115.3	-63.41	-13.00	50.41	241	10	Vertical
3	3109.36	52.07	-112.2	-60.15	-13.00	47.15	162	3	Vertical
4	3886.7	50.16	-110.4	-60.31	-13.00	47.31	284	352	Vertical
5	4664.04	50.71	-108.0	-57.33	-13.00	44.33	176	113	Vertical
6	5441.38	52.66	-106.4	-53.83	-13.00	40.83	295	133	Vertical



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Test Band = LTE Band 13 BW 5M_ TM1

Test Channel = Mid Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	53.07	-118.2	-65.14	-40.00	25.14	162	309	Horizontal
2	2339.52	51.75	-115.2	-63.54	-13.00	50.54	241	215	Horizontal
3	3119.36	51.37	-112.1	-60.82	-13.00	47.82	176	215	Horizontal
4	3899.2	50.90	-110.4	-59.53	-13.00	46.53	258	1	Horizontal
5	4679.04	50.49	-107.9	-57.50	-13.00	44.50	165	320	Horizontal
6	5458.88	52.38	-106.4	-54.10	-13.00	41.10	184	1	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1559.68	53.64	-118.2	-64.57	-40.00	24.57	162	196	Vertical
2	2339.52	52.09	-115.2	-63.20	-13.00	50.20	241	359	Vertical
3	3119.36	51.45	-112.1	-60.74	-13.00	47.74	162	205	Vertical
4	3899.2	50.53	-110.4	-59.90	-13.00	46.90	274	70	Vertical
5	4679.04	50.51	-107.9	-57.48	-13.00	44.48	169	51	Vertical
6	5458.88	51.83	-106.4	-54.65	-13.00	41.65	268	30	Vertical



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Test Band = LTE Band 13 BW 5M_ TM1

Test Channel = High Channel

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.68	52.93	-118.2	-65.27	-40.00	25.27	162	114	Horizontal
2	2347.02	51.60	-115.2	-63.67	-13.00	50.67	247	51	Horizontal
3	3129.36	51.90	-112.1	-60.27	-13.00	47.27	269	320	Horizontal
4	3911.7	50.42	-110.4	-59.98	-13.00	46.98	286	133	Horizontal
5	4694.04	51.16	-107.9	-56.78	-13.00	43.78	241	247	Horizontal
6	5476.38	51.15	-106.4	-55.31	-13.00	42.31	146	124	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1564.68	53.70	-118.2	-64.50	-40.00	24.50	263	205	Vertical
2	2347.02	52.50	-115.2	-62.77	-13.00	49.77	214	193	Vertical
3	3129.36	51.29	-112.1	-60.88	-13.00	47.88	175	358	Vertical
4	3911.7	50.47	-110.4	-59.93	-13.00	46.93	265	174	Vertical
5	4694.04	50.39	-107.9	-57.55	-13.00	44.55	284	153	Vertical
6	5476.38	50.24	-106.4	-56.22	-13.00	43.22	173	360	Vertical



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	VL	NT	1.60	0.002046	PASS
Band13	10MHz	QPSK	23230	50RB#0	VN	NT	2.40	0.003069	PASS
Band13	10MHz	QPSK	23230	50RB#0	VH	NT	3.00	0.003836	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band13	10MHz	QPSK	23230	50RB#0	NV	-30	1.20	0.001535	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-20	0.10	0.000128	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	-10	-0.50	-0.000639	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	0	-0.70	-0.000895	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	10	-0.30	-0.000384	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	20	0.70	0.000895	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	30	2.30	0.002941	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	40	2.70	0.003453	PASS
Band13	10MHz	QPSK	23230	50RB#0	NV	50	2.50	0.003197	PASS

The End



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