

Report No.: SUHR/2022/1000601

Rev.: 01

Page: 1 of 45

# Appendix



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## Effective (Isotropic) Radiated Power Output Data

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	EIRP(dBm)	Limit(dBm)	Verdict
Band17	5MHz	QPSK	23755	1RB#0	22.75	15.6	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#12	22.71	15.56	34.77	PASS
Band17	5MHz	QPSK	23755	1RB#24	22.68	15.53	34.77	PASS
Band17	5MHz	QPSK	23755	25RB#0	21.79	14.64	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#0	22.79	15.64	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#12	22.94	15.79	34.77	PASS
Band17	5MHz	QPSK	23790	1RB#24	22.77	15.62	34.77	PASS
Band17	5MHz	QPSK	23790	25RB#0	21.88	14.73	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#0	22.85	15.7	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#12	22.83	15.68	34.77	PASS
Band17	5MHz	QPSK	23825	1RB#24	22.7	15.55	34.77	PASS
Band17	5MHz	QPSK	23825	25RB#0	21.81	14.66	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#0	22.08	14.93	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#12	22.09	14.94	34.77	PASS
Band17	5MHz	16QAM	23755	1RB#24	22.03	14.88	34.77	PASS
Band17	5MHz	16QAM	23755	25RB#0	20.87	13.72	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#0	22.07	14.92	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#12	22.01	14.86	34.77	PASS
Band17	5MHz	16QAM	23790	1RB#24	22.02	14.87	34.77	PASS
Band17	5MHz	16QAM	23790	25RB#0	20.9	13.75	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#0	22.19	15.04	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#12	22.1	14.95	34.77	PASS
Band17	5MHz	16QAM	23825	1RB#24	22.08	14.93	34.77	PASS
Band17	5MHz	16QAM	23825	25RB#0	20.81	13.66	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#0	21.07	13.92	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#12	20.95	13.8	34.77	PASS
Band17	5MHz	64QAM	23755	1RB#24	20.98	13.83	34.77	PASS



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Band17	5MHz	64QAM	23755	25RB#0	19.86	12.71	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#0	21.05	13.9	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#12	20.98	13.83	34.77	PASS
Band17	5MHz	64QAM	23790	1RB#24	21.06	13.91	34.77	PASS
Band17	5MHz	64QAM	23790	25RB#0	19.88	12.73	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#0	21.08	13.93	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#12	21.09	13.94	34.77	PASS
Band17	5MHz	64QAM	23825	1RB#24	20.92	13.77	34.77	PASS
Band17	5MHz	64QAM	23825	25RB#0	19.92	12.77	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#0	22.69	15.54	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#24	22.88	15.73	34.77	PASS
Band17	10MHz	QPSK	23780	1RB#49	22.64	15.49	34.77	PASS
Band17	10MHz	QPSK	23780	50RB#0	21.78	14.63	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#0	22.78	15.63	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#24	22.79	15.64	34.77	PASS
Band17	10MHz	QPSK	23790	1RB#49	22.74	15.59	34.77	PASS
Band17	10MHz	QPSK	23790	50RB#0	21.91	14.76	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#0	22.78	15.63	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#24	22.86	15.71	34.77	PASS
Band17	10MHz	QPSK	23800	1RB#49	22.64	15.49	34.77	PASS
Band17	10MHz	QPSK	23800	50RB#0	21.79	14.64	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#0	22	14.85	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#24	21.86	14.71	34.77	PASS
Band17	10MHz	16QAM	23780	1RB#49	22.06	14.91	34.77	PASS
Band17	10MHz	16QAM	23780	50RB#0	20.86	13.71	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#0	22.07	14.92	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#24	22.11	14.96	34.77	PASS
Band17	10MHz	16QAM	23790	1RB#49	21.98	14.83	34.77	PASS
Band17	10MHz	16QAM	23790	50RB#0	20.85	13.7	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#0	22.14	14.99	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#24	21.99	14.84	34.77	PASS
Band17	10MHz	16QAM	23800	1RB#49	21.95	14.8	34.77	PASS



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Report No.: SUHR/2022/1000601

Rev.: 01

Page: 4 of 45

Band17	10MHz	16QAM	23800	50RB#0	20.85	13.7	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#0	20.87	13.72	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#24	20.8	13.65	34.77	PASS
Band17	10MHz	64QAM	23780	1RB#49	20.98	13.83	34.77	PASS
Band17	10MHz	64QAM	23780	50RB#0	19.84	12.69	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#0	20.93	13.78	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#24	21.07	13.92	34.77	PASS
Band17	10MHz	64QAM	23790	1RB#49	20.98	13.83	34.77	PASS
Band17	10MHz	64QAM	23790	50RB#0	19.83	12.68	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#0	20.96	13.81	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#24	21.02	13.87	34.77	PASS
Band17	10MHz	64QAM	23800	1RB#49	20.94	13.79	34.77	PASS
Band17	10MHz	64QAM	23800	50RB#0	19.85	12.7	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
Band17	10MHz	QPSK	23780	50RB#0	5.44	13	PASS
Band17	10MHz	QPSK	23790	50RB#0	5.48	13	PASS
Band17	10MHz	QPSK	23800	50RB#0	5.50	13	PASS
Band17	10MHz	16QAM	23780	50RB#0	6.12	13	PASS
Band17	10MHz	16QAM	23790	50RB#0	6.16	13	PASS
Band17	10MHz	16QAM	23800	50RB#0	6.12	13	PASS
Band17	10MHz	64QAM	23780	50RB#0	6.60	13	PASS
Band17	10MHz	64QAM	23790	50RB#0	6.60	13	PASS
Band17	10MHz	64QAM	23800	50RB#0	6.60	13	PASS



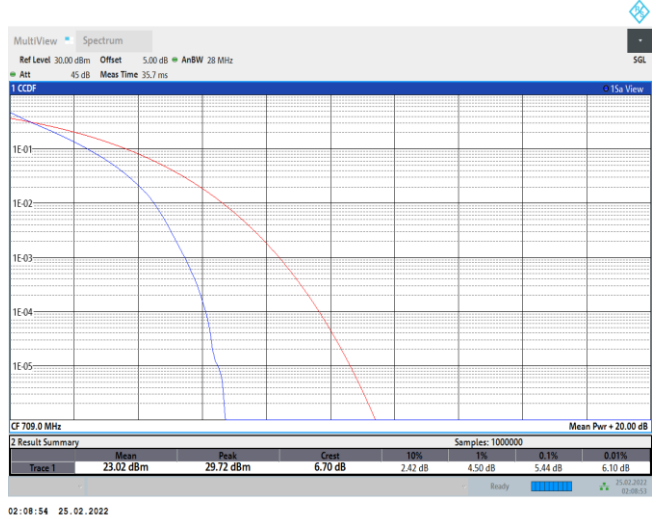
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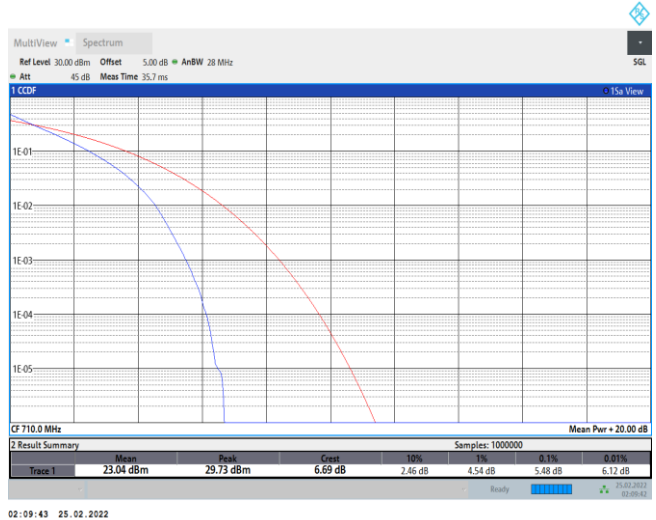


Test Graphs

Band17-10MHz-QPSK-23780-50RB#0



Band17-10MHz-QPSK-23790-50RB#0

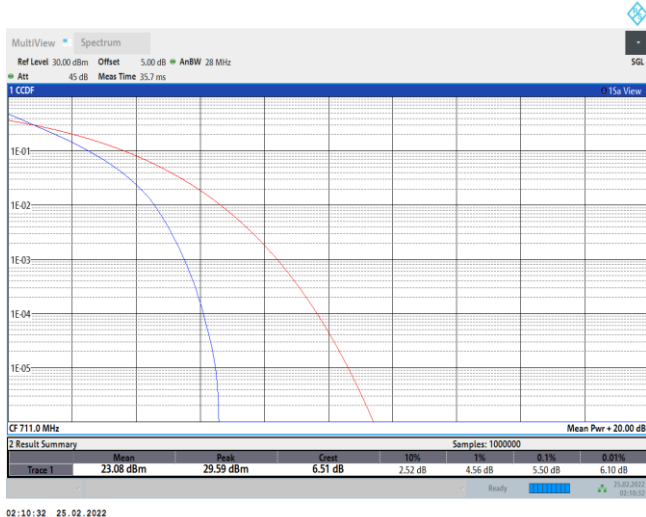


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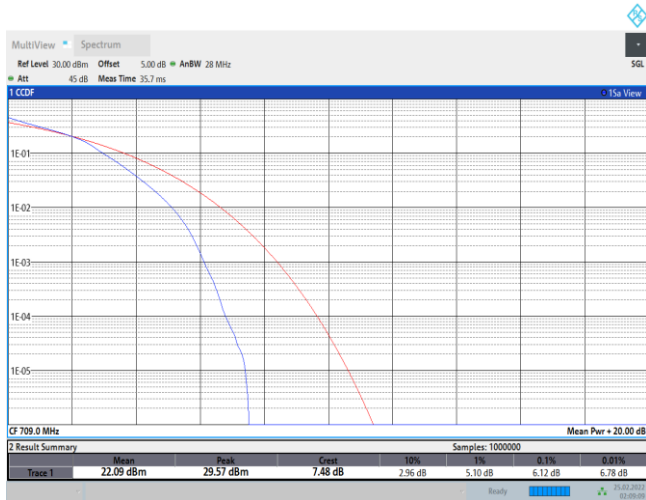
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Band17-10MHz-QPSK-23800-50RB#0



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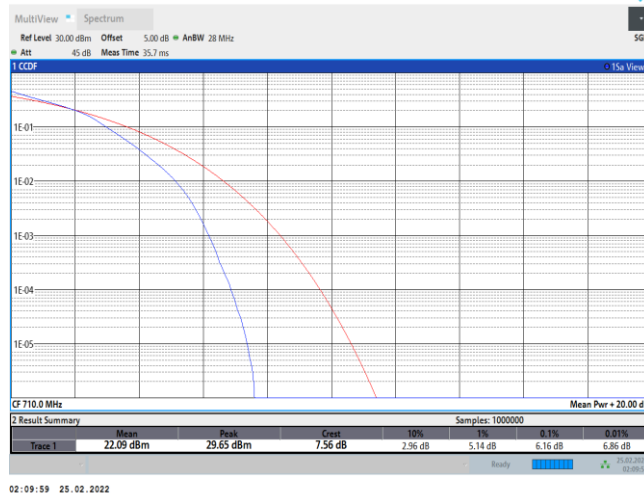
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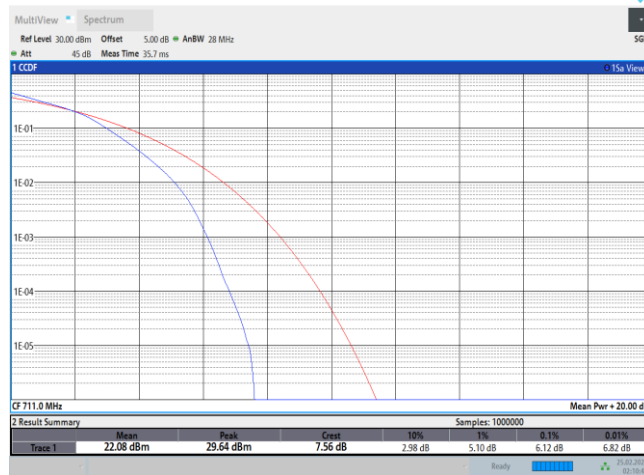
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Band17-10MHz-16QAM-23790-50RB#0



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Band17-10MHz-16QAM-23800-50RB#0



02:10:49 25.02.2022

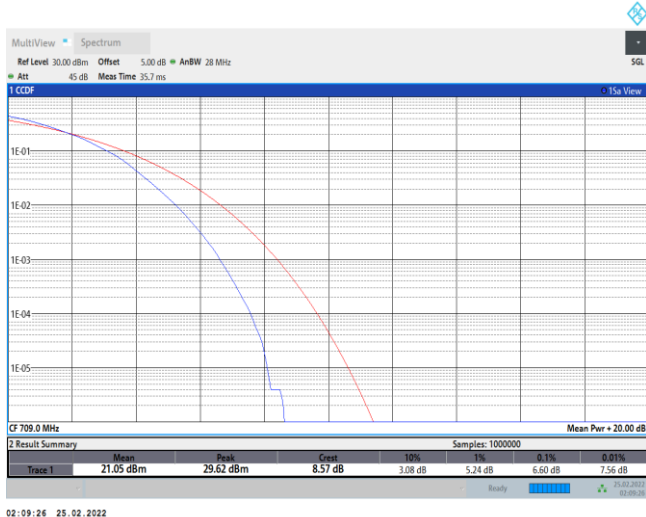


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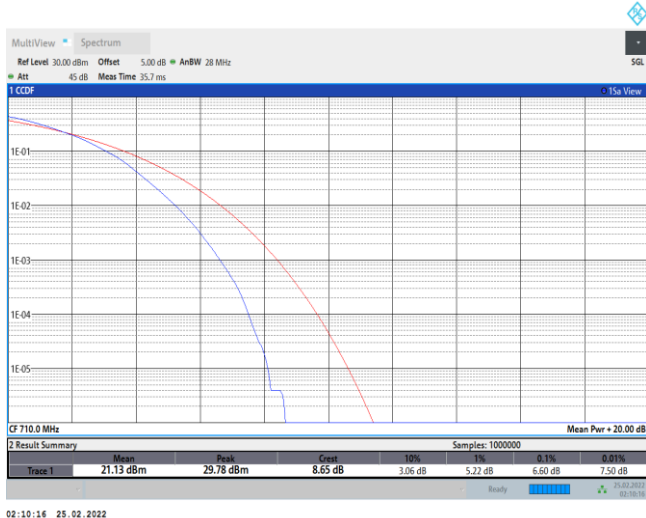
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Band17-10MHz-64QAM-23780-50RB#0



Band17-10MHz-64QAM-23790-50RB#0

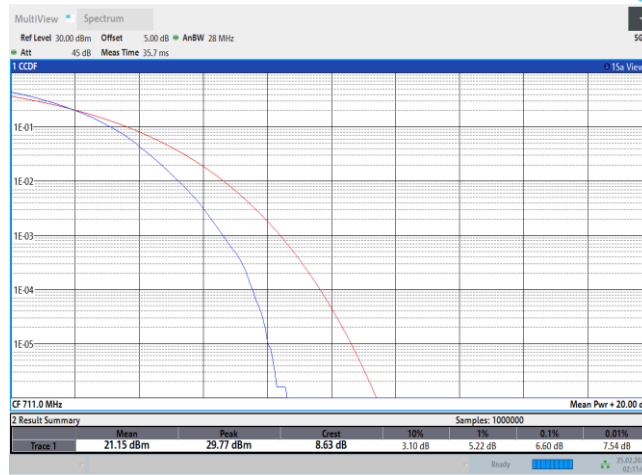


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Band17-10MHz-64QAM-23800-50RB#0



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## Modulation Characteristics

### Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band17	10MHz	QPSK	23790	50RB#0	PASS	PASS
Band17	10MHz	16QAM	23790	50RB#0	PASS	PASS
Band17	10MHz	64QAM	23790	50RB#0	PASS	PASS



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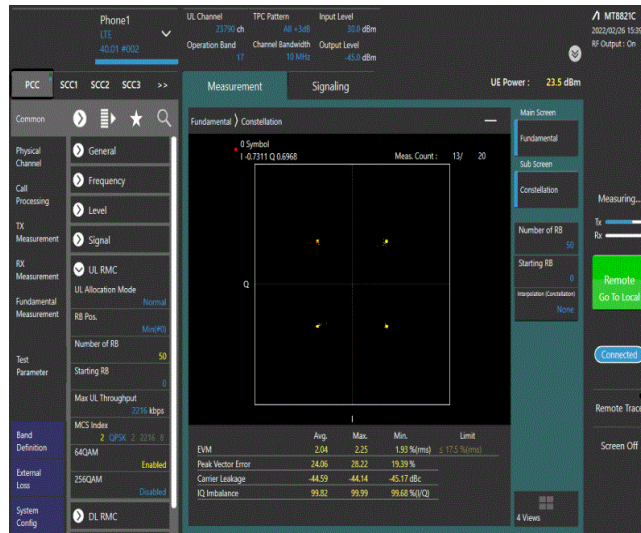
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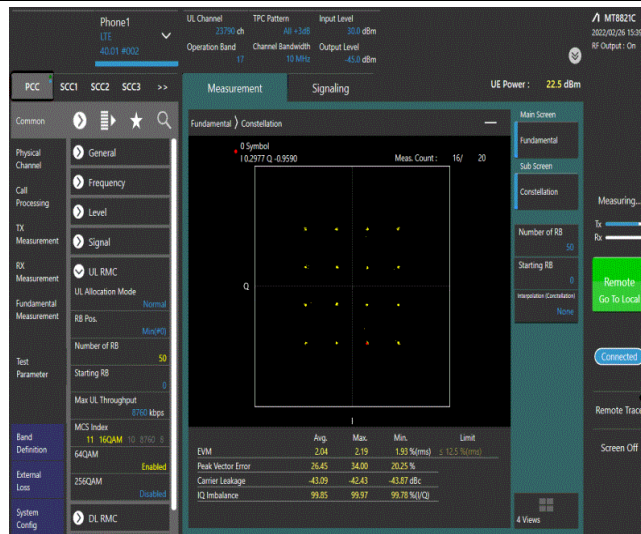
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Test Graphs

Band17-10MHz-QPSK-23790-50RB#0



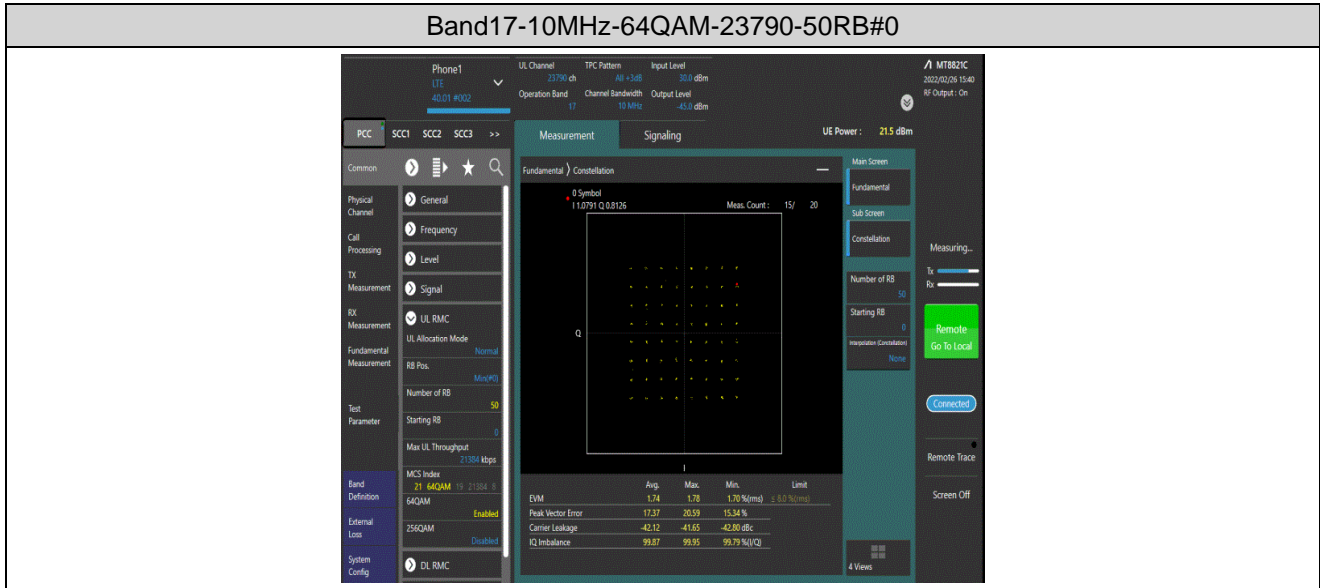
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## 26dB Bandwidth and Occupied Bandwidth

### Test Result

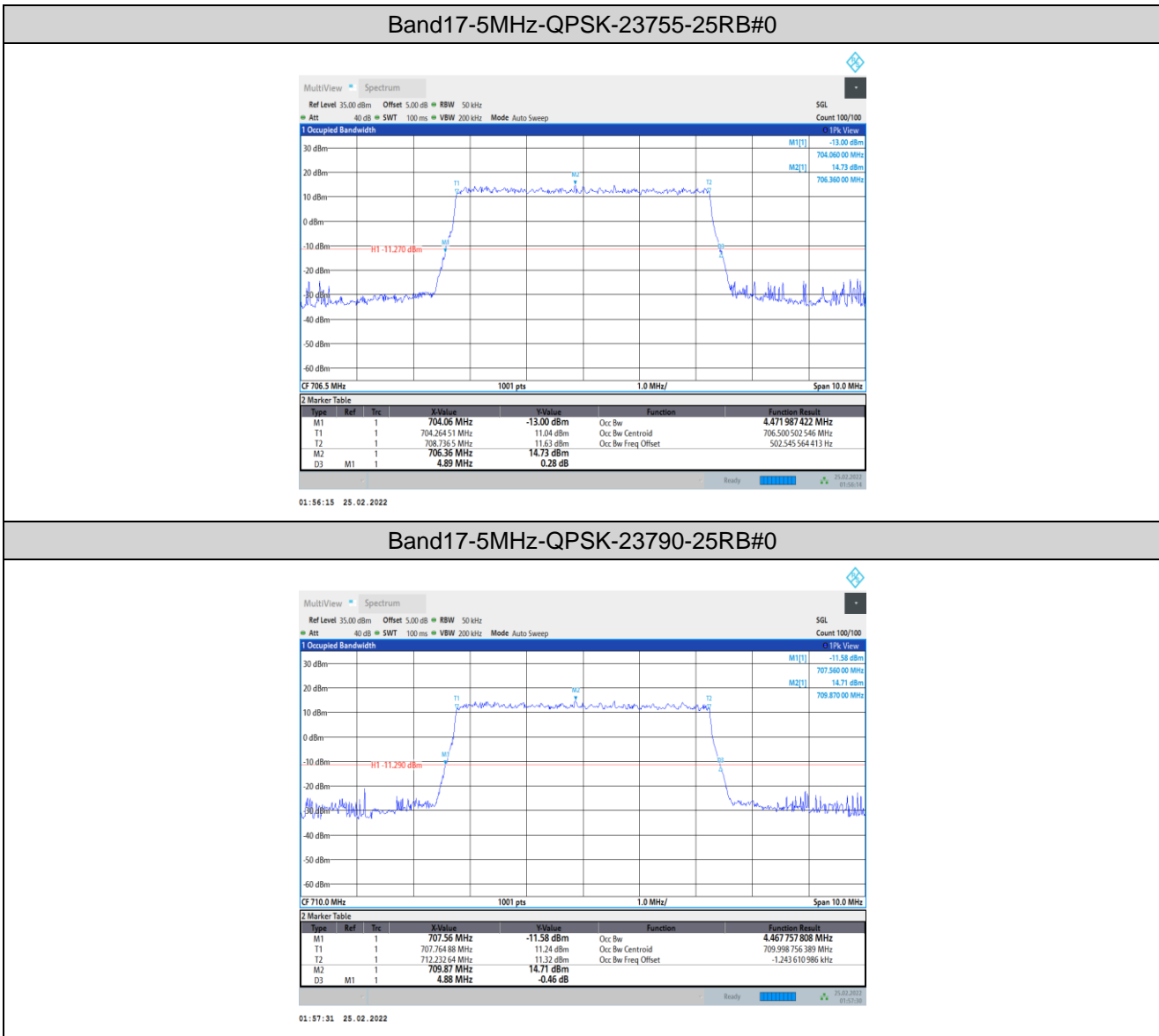
Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band17	5MHz	QPSK	23755	25RB#0	4.472	4.89	PASS
Band17	5MHz	QPSK	23790	25RB#0	4.468	4.88	PASS
Band17	5MHz	QPSK	23825	25RB#0	4.467	4.88	PASS
Band17	5MHz	16QAM	23755	25RB#0	4.469	4.90	PASS
Band17	5MHz	16QAM	23790	25RB#0	4.463	4.88	PASS
Band17	5MHz	16QAM	23825	25RB#0	4.461	4.89	PASS
Band17	5MHz	64QAM	23755	25RB#0	4.478	4.91	PASS
Band17	5MHz	64QAM	23790	25RB#0	4.477	4.91	PASS
Band17	5MHz	64QAM	23825	25RB#0	4.473	4.88	PASS
Band17	10MHz	QPSK	23780	50RB#0	8.931	9.70	PASS
Band17	10MHz	QPSK	23790	50RB#0	8.932	9.63	PASS
Band17	10MHz	QPSK	23800	50RB#0	8.927	9.67	PASS
Band17	10MHz	16QAM	23780	50RB#0	8.917	9.63	PASS
Band17	10MHz	16QAM	23790	50RB#0	8.911	9.67	PASS
Band17	10MHz	16QAM	23800	50RB#0	8.912	9.63	PASS
Band17	10MHz	64QAM	23780	50RB#0	8.941	9.67	PASS
Band17	10MHz	64QAM	23790	50RB#0	8.925	9.70	PASS
Band17	10MHz	64QAM	23800	50RB#0	8.929	9.67	PASS



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Test Graphs

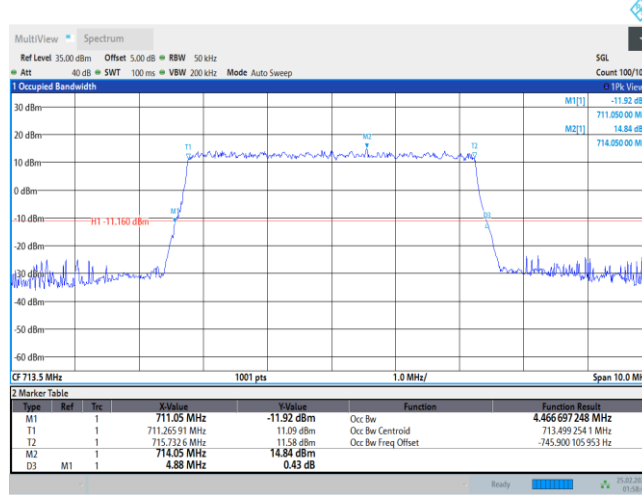


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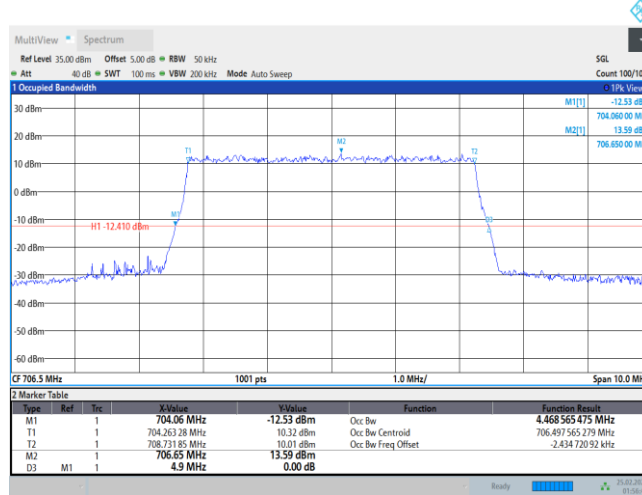
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Band17-5MHz-QPSK-23825-25RB#0



01:58:46 25.02.2022

Band17-5MHz-16QAM-23755-25RB#0



01:56:40 25.02.2022



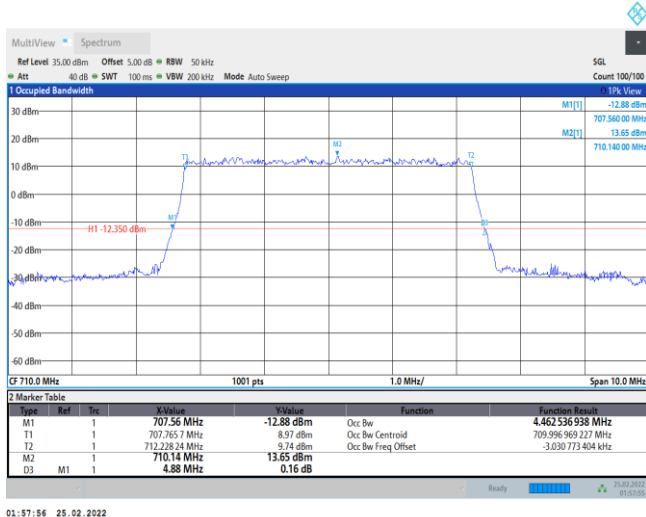
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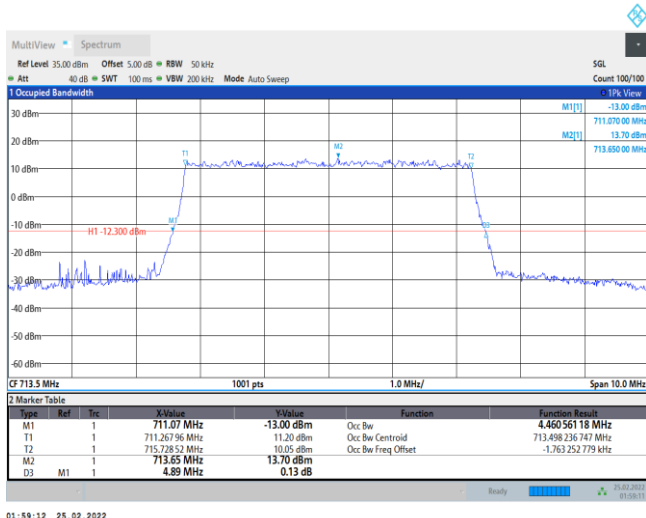
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Band17-5MHz-16QAM-23790-25RB#0



01:57:56 25.02.2022

Band17-5MHz-16QAM-23825-25RB#0



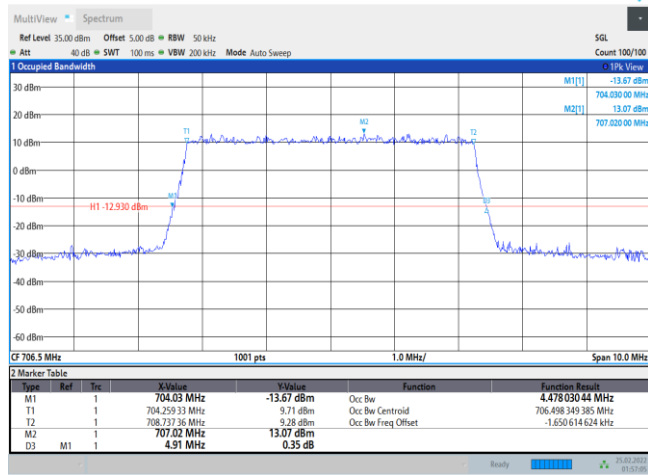
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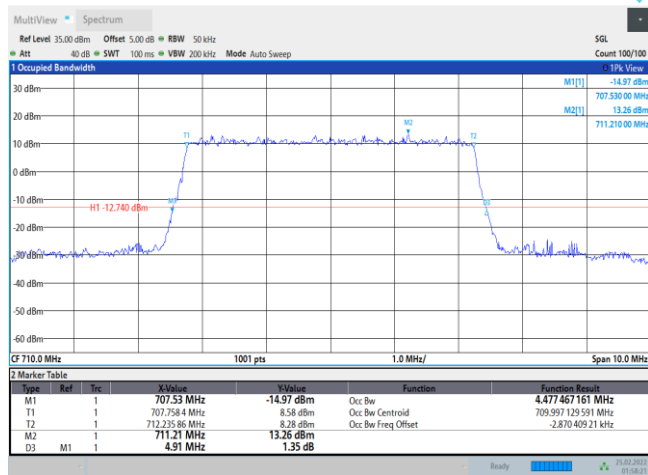
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Band17-5MHz-64QAM-23755-25RB#0



01:57:05 25.02.2022

Band17-5MHz-64QAM-23790-25RB#0



01:58:21 25.02.2022

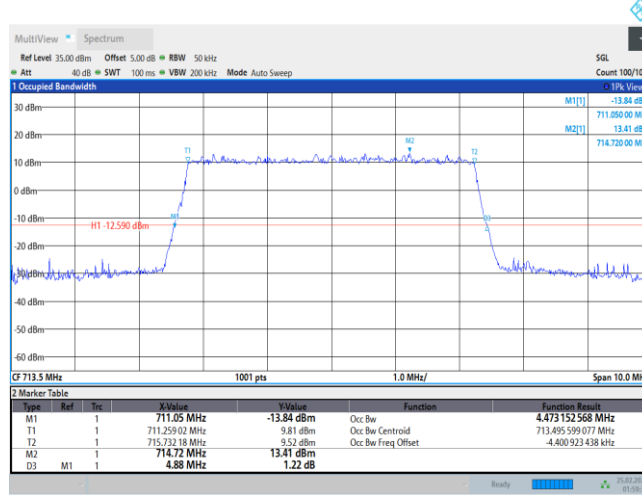


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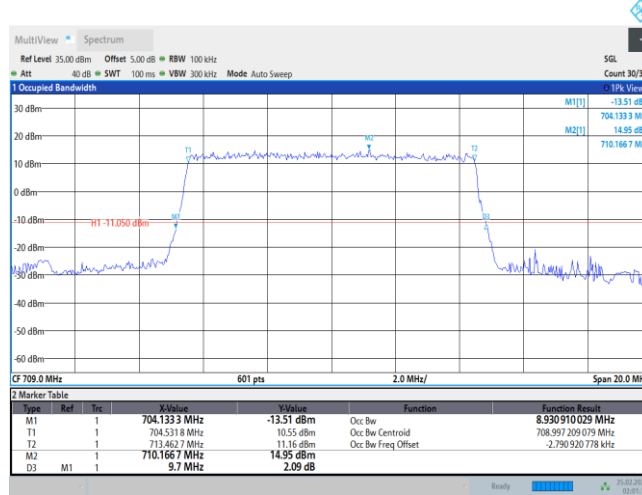


Band17-5MHz-64QAM-23825-25RB#0



01:59:37 25.02.2022

Band17-10MHz-QPSK-23780-50RB#0



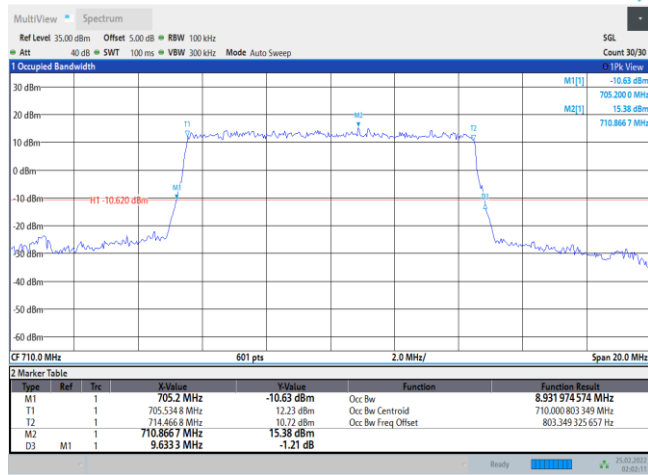
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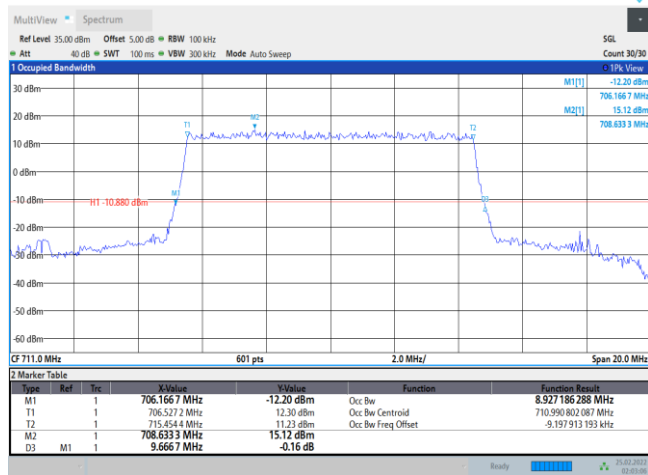
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Band17-10MHz-QPSK-23790-50RB#0



02:02:12 25.02.2022

Band17-10MHz-QPSK-23800-50RB#0



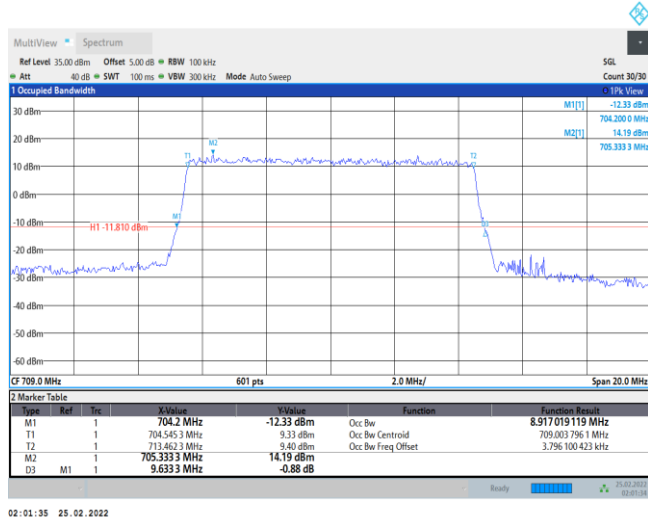
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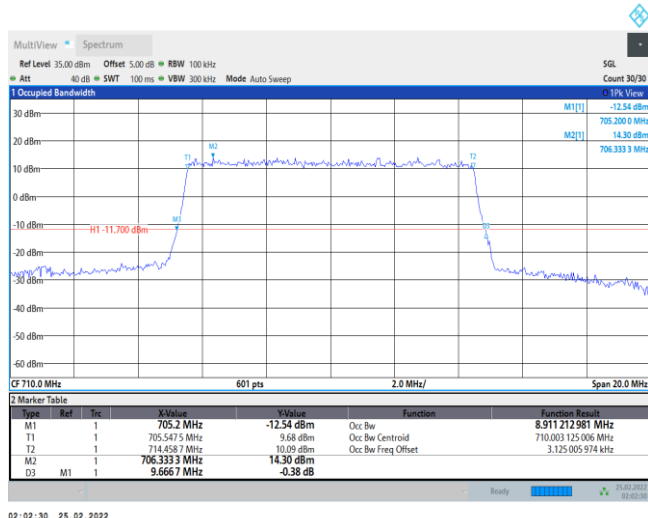
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Band17-10MHz-16QAM-23780-50RB#0



02:01:35 25.02.2022

Band17-10MHz-16QAM-23790-50RB#0



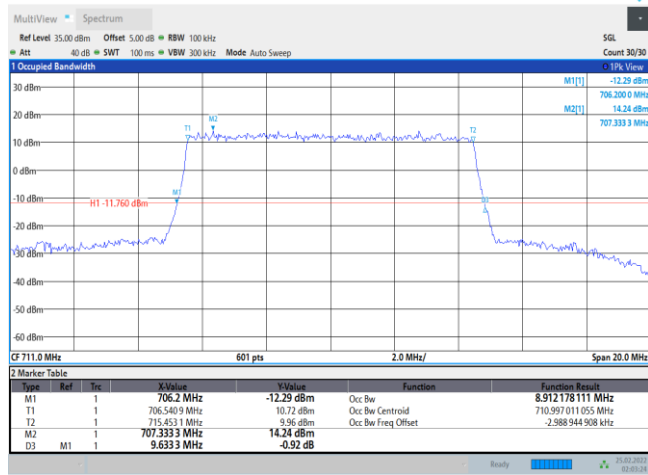
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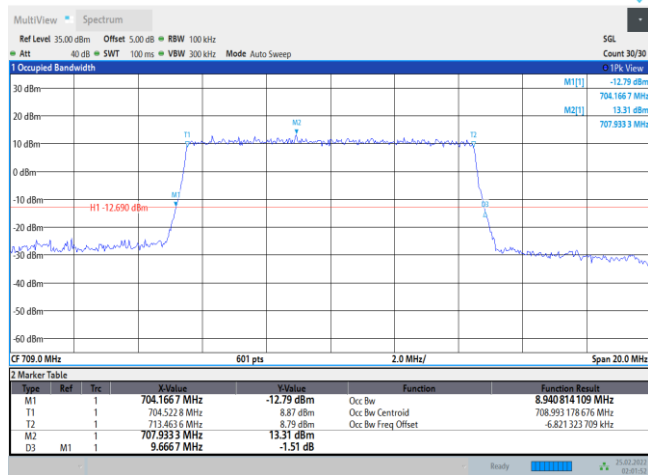
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Band17-10MHz-16QAM-23800-50RB#0



02:03:24 25.02.2022

Band17-10MHz-64QAM-23780-50RB#0



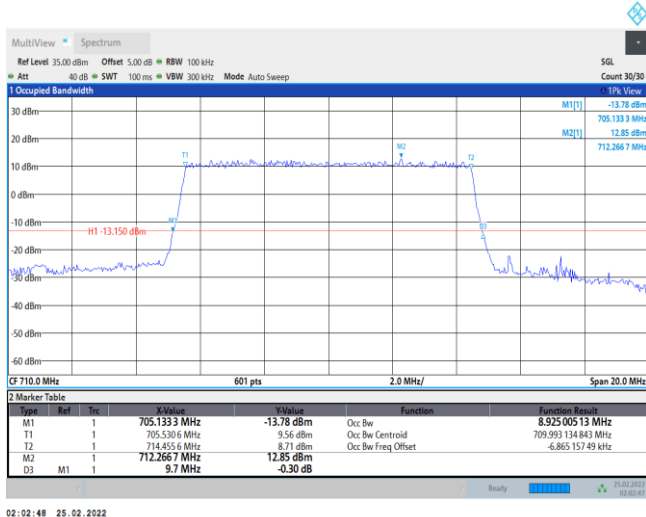
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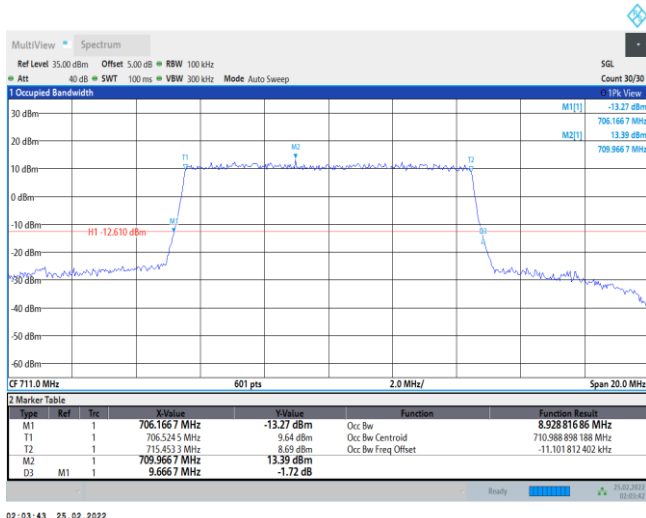
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Band17-10MHz-64QAM-23790-50RB#0



02:02:48 25.02.2022

Band17-10MHz-64QAM-23800-50RB#0



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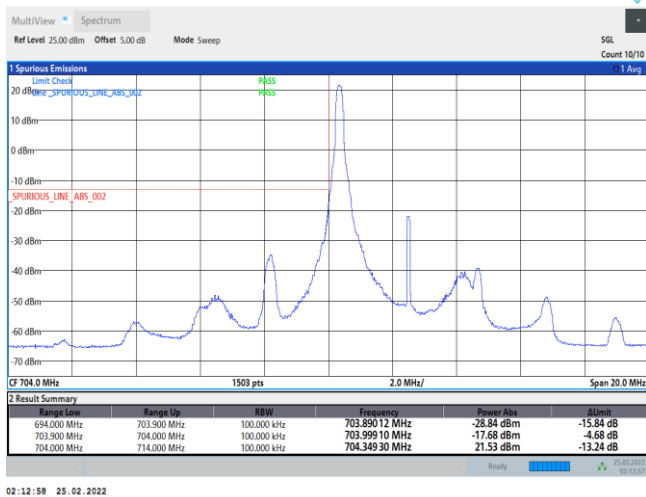
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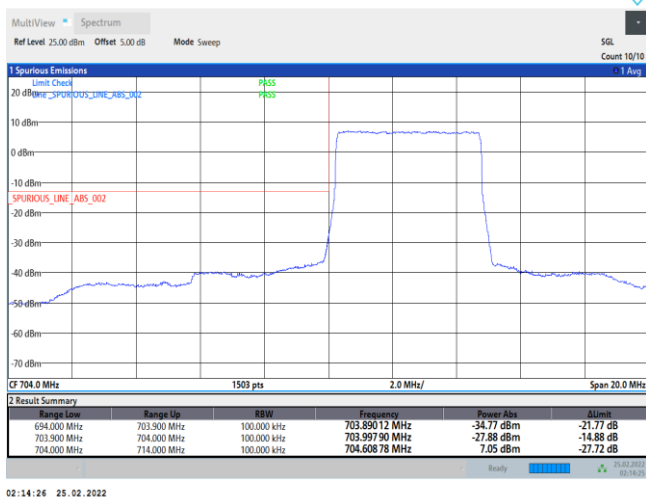
## Band Edge

## Test Graphs

Band17-5MHz-QPSK-23755-1RB#0



Band17-5MHz-QPSK-23755-25RB#0

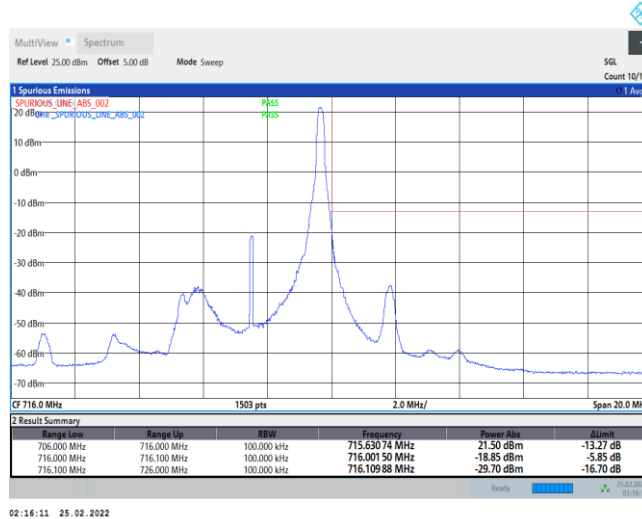


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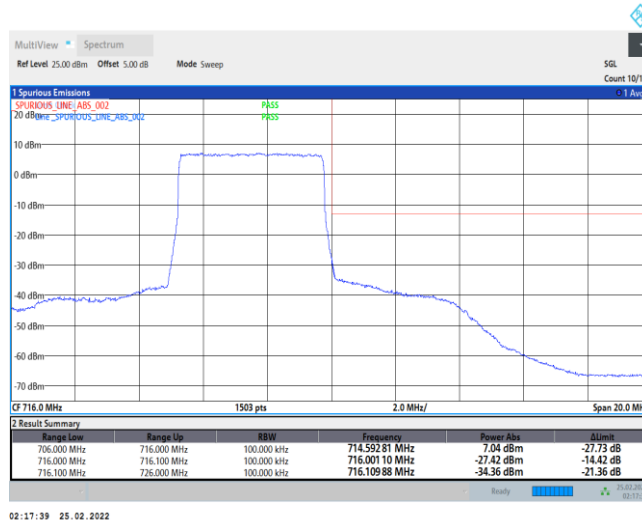
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Band17-5MHz-QPSK-23825-1RB#24



02:16:11 25. 02. 2022

Band17-5MHz-QPSK-23825-25RB#0



02:17:39 25. 02. 2022



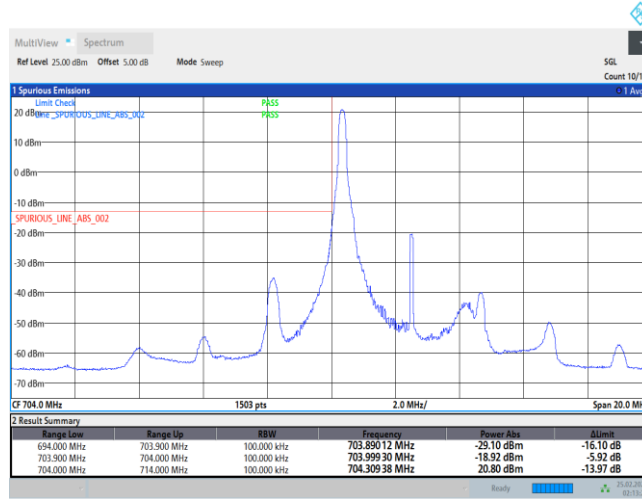
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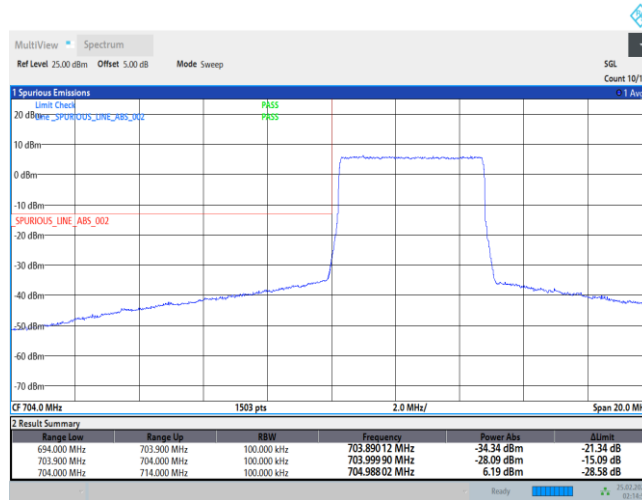
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Band17-5MHz-16QAM-23755-1RB#0



02:13:27 25.02.2022

Band17-5MHz-16QAM-23755-25RB#0



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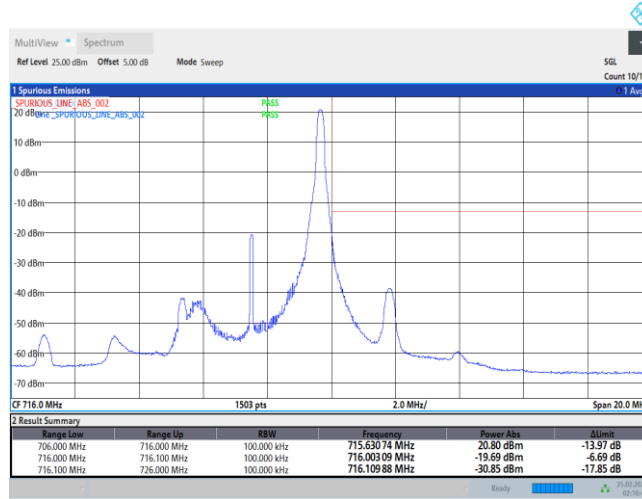
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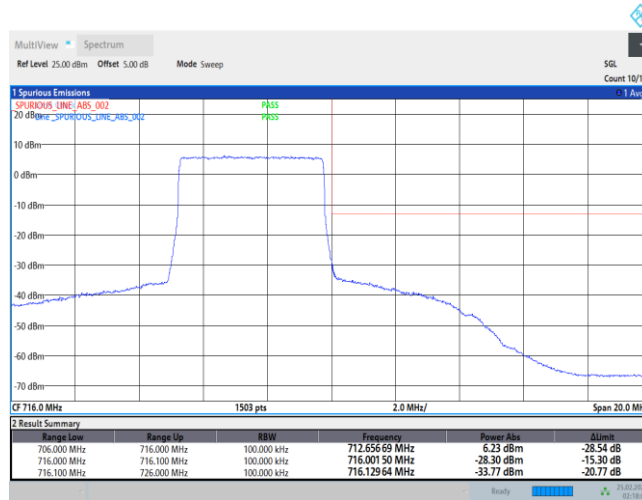
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Band17-5MHz-16QAM-23825-1RB#24



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Band17-5MHz-16QAM-23825-25RB#0



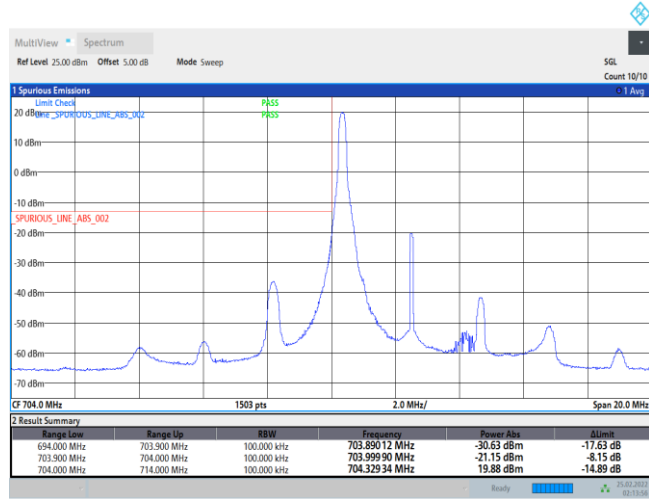
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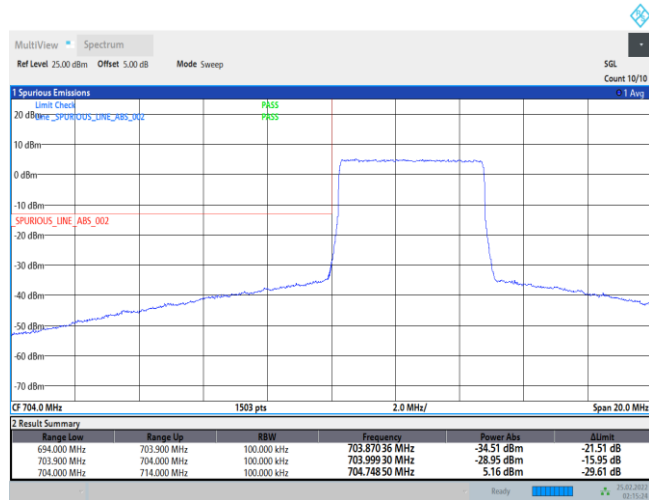
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Band17-5MHz-64QAM-23755-1RB#0



02:13:56 25.02.2022

Band17-5MHz-64QAM-23755-25RB#0



02:15:24 25.02.2022

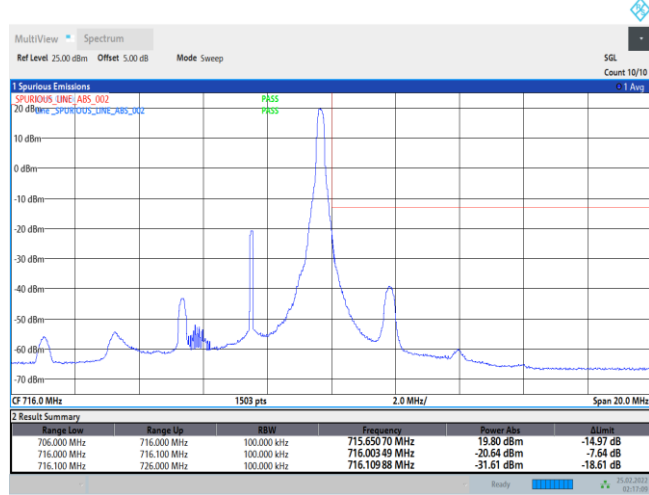


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Band17-5MHz-64QAM-23825-1RB#24



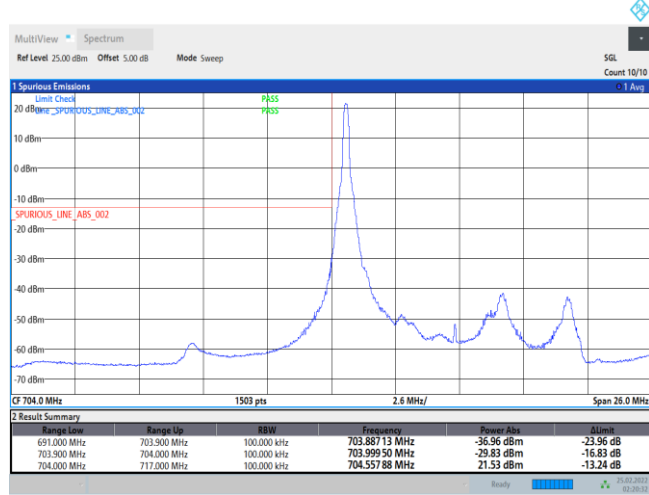
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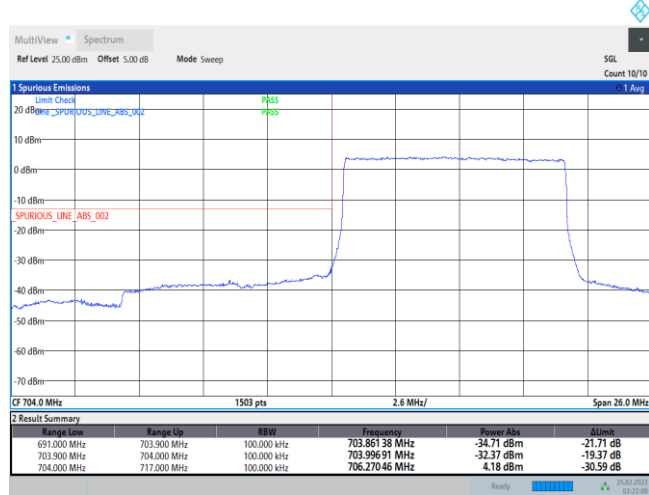
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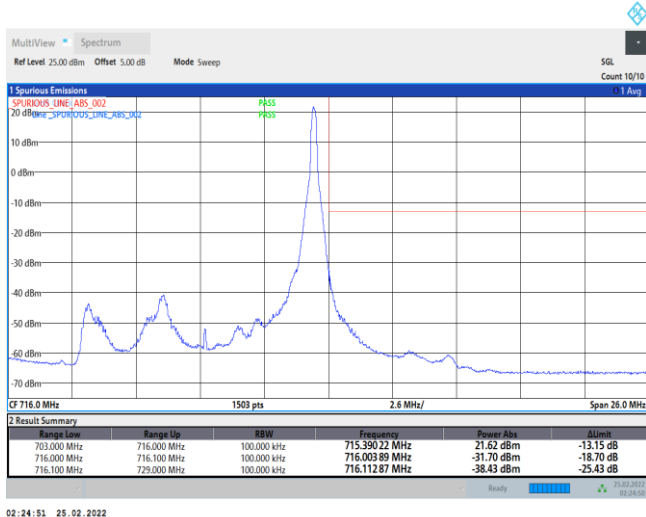
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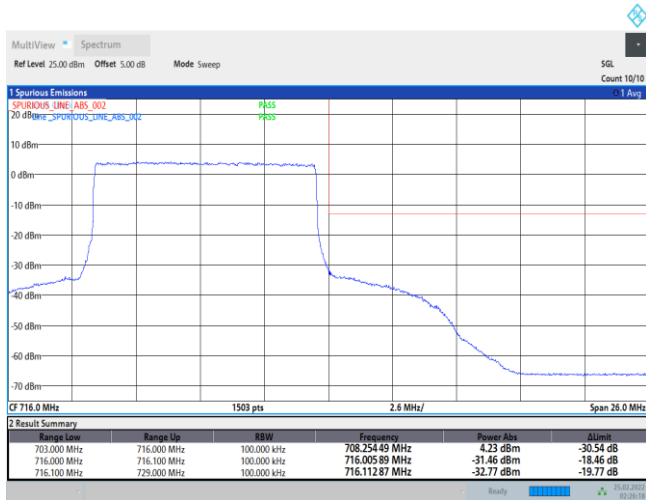
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02:24:51 25.02.2022

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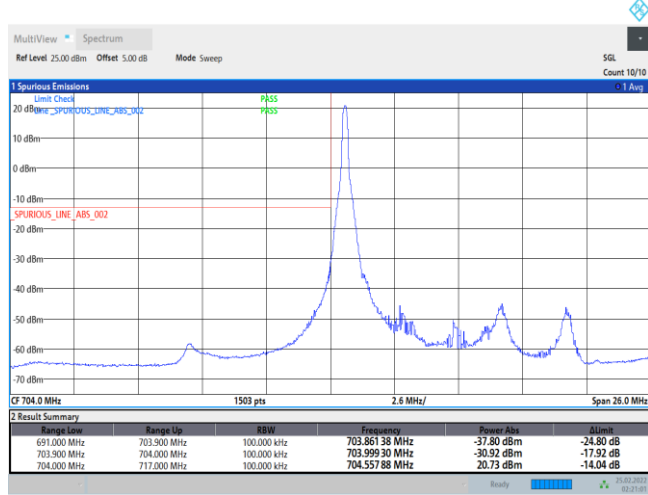
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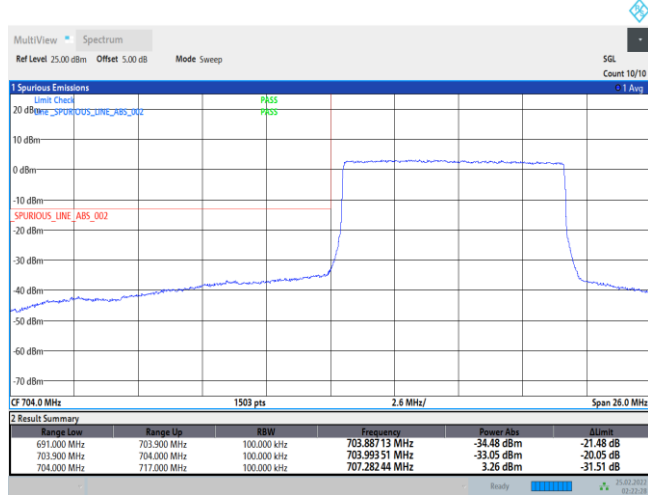
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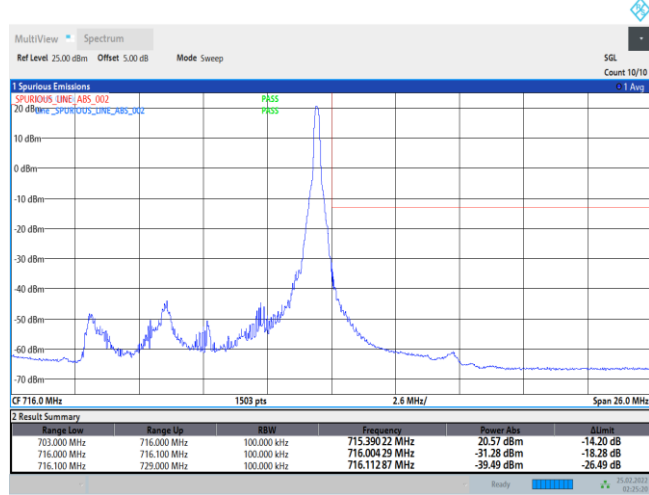
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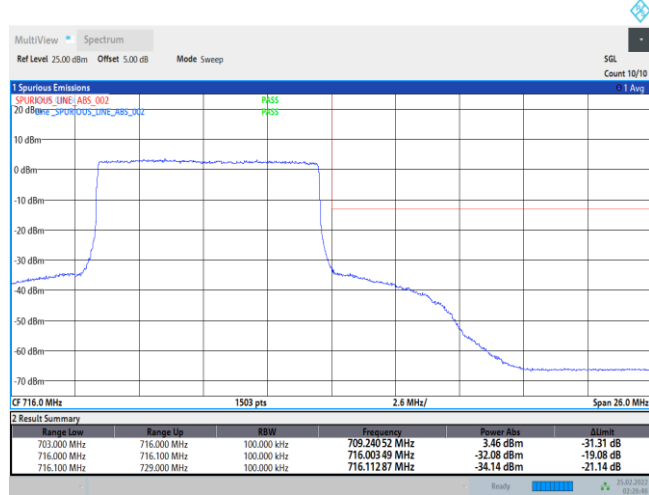
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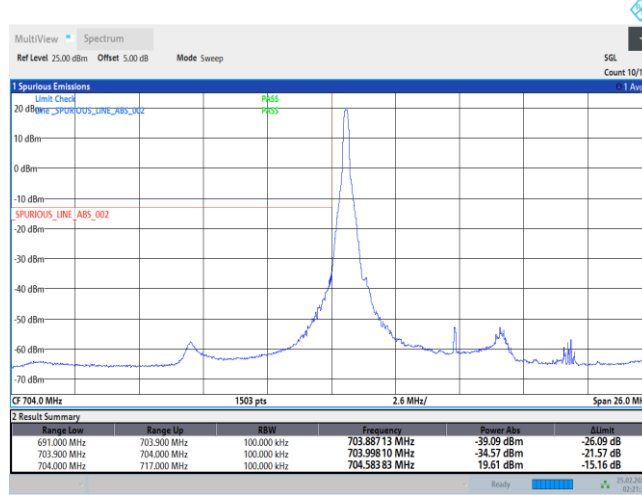


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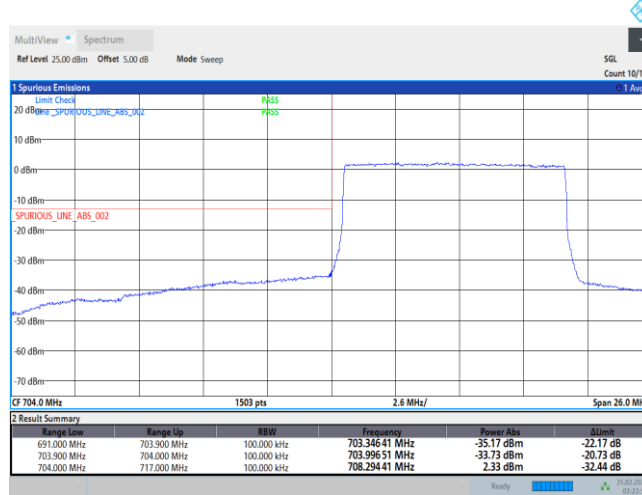


Band17-10MHz-64QAM-23780-1RB#0



02:21:31 25.02.2022

Band17-10MHz-64QAM-23780-50RB#0



02:22:58 25.02.2022



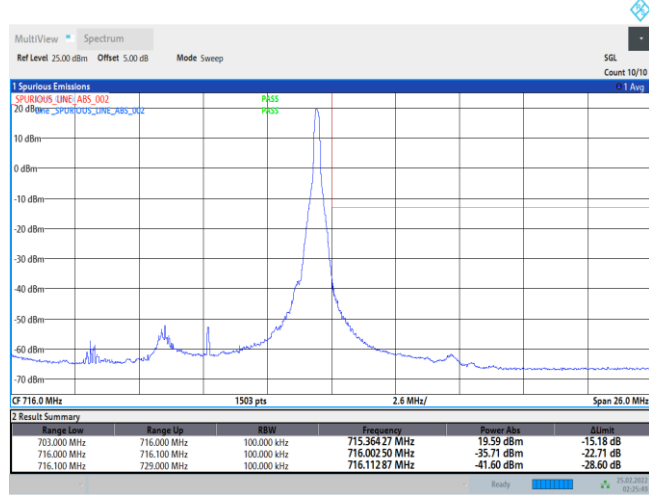
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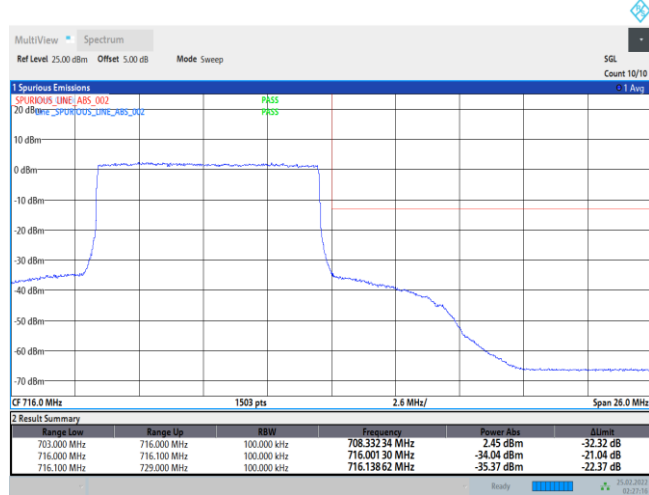
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Band17-10MHz-64QAM-23800-1RB#49



02:25:49 25.02.2022

Band17-10MHz-64QAM-23800-50RB#0



02:27:17 25.02.2022



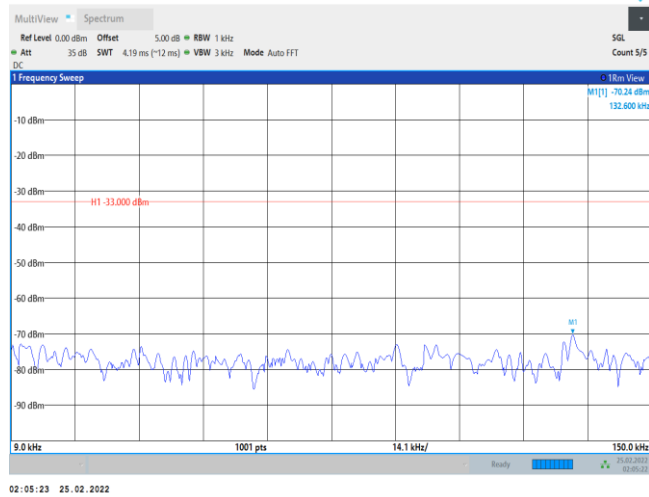
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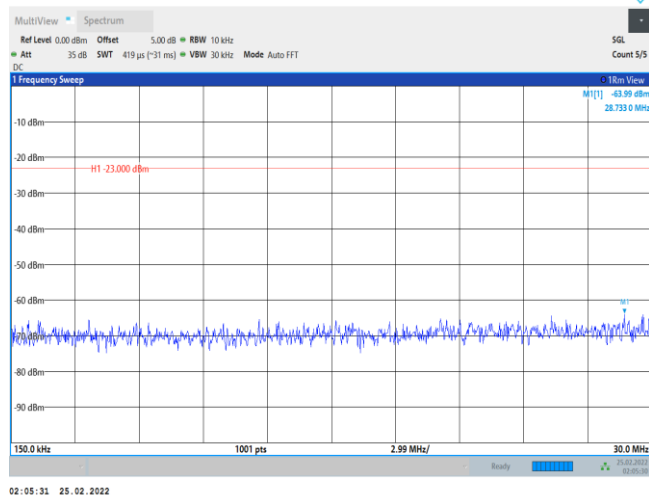
## Conducted Spurious Emission

### Test Graphs

Band17-10MHz-QPSK-23780-1RB#0-Range1:0.009~0.15MHz



Band17-10MHz-QPSK-23780-1RB#0-Range2:0.15~30MHz



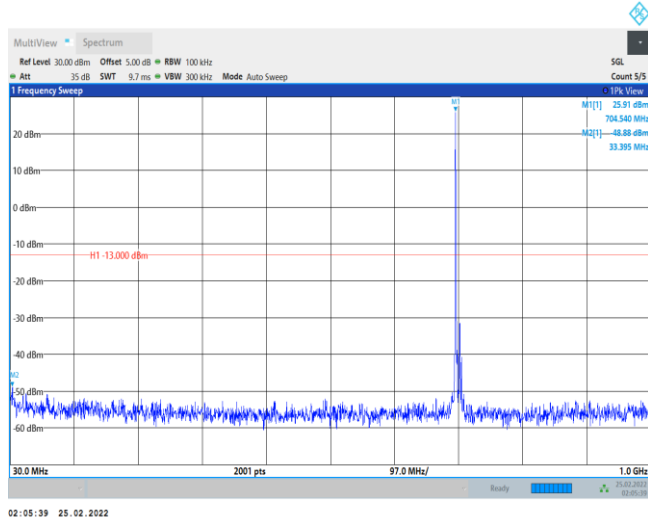
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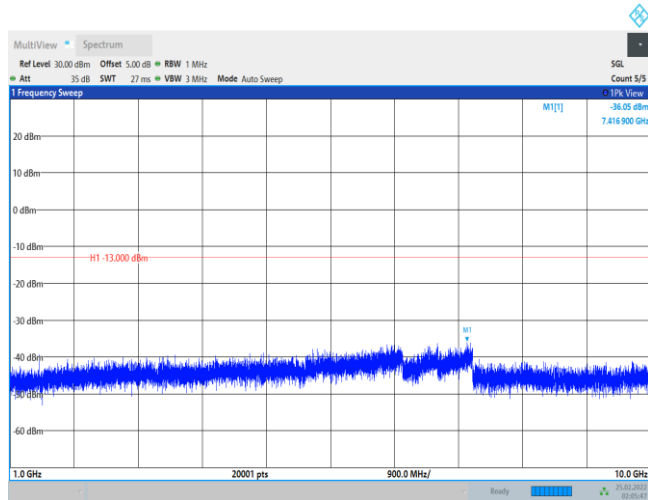
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Band17-10MHz-QPSK-23780-1RB#0-Range3:30~1000MHz



02:05:39 25.02.2022

Band17-10MHz-QPSK-23780-1RB#0-Range4:1000~10000MHz



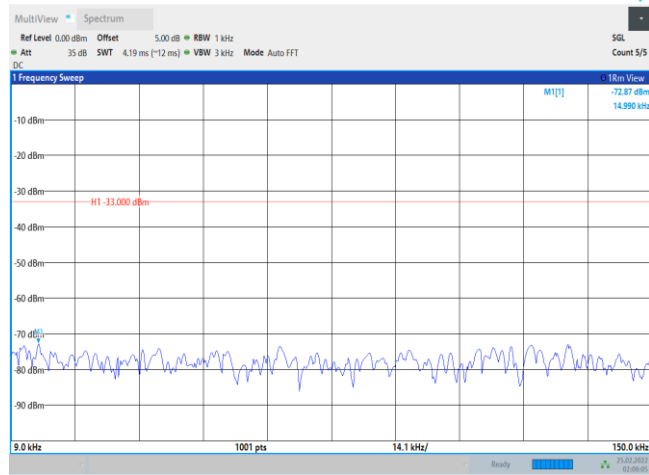
02:05:48 25.02.2022



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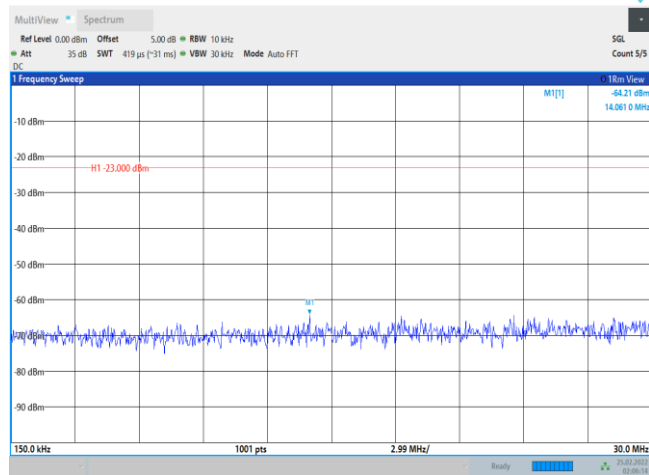
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Band17-10MHz-QPSK-23790-1RB#0-Range1:0.009~0.15MHz



02:06:06 25.02.2022

Band17-10MHz-QPSK-23790-1RB#0-Range2:0.15~30MHz



02:06:14 25.02.2022



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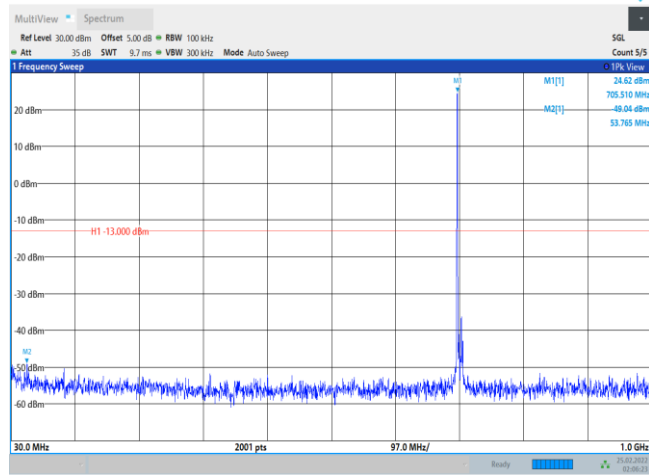
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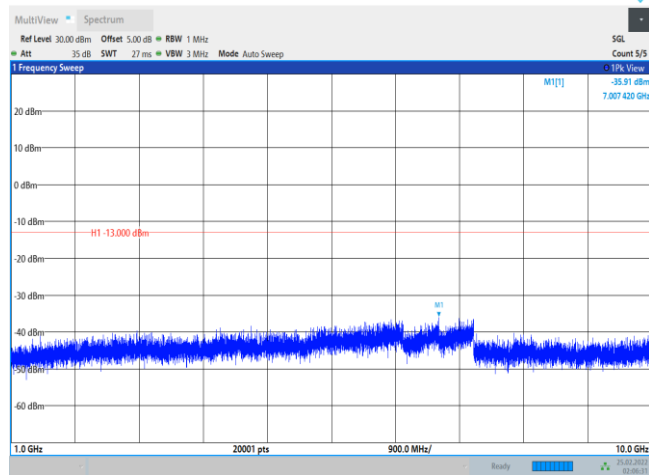


Band17-10MHz-QPSK-23790-1RB#0-Range3:30~1000MHz



02:06:23 25.02.2022

Band17-10MHz-QPSK-23790-1RB#0-Range4:1000~10000MHz



02:06:31 25.02.2022

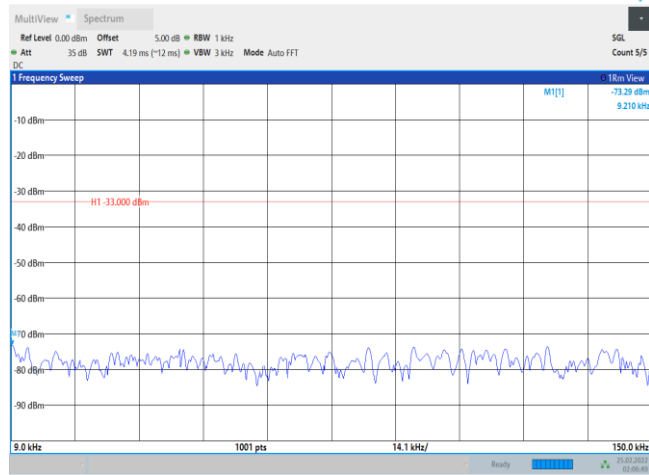


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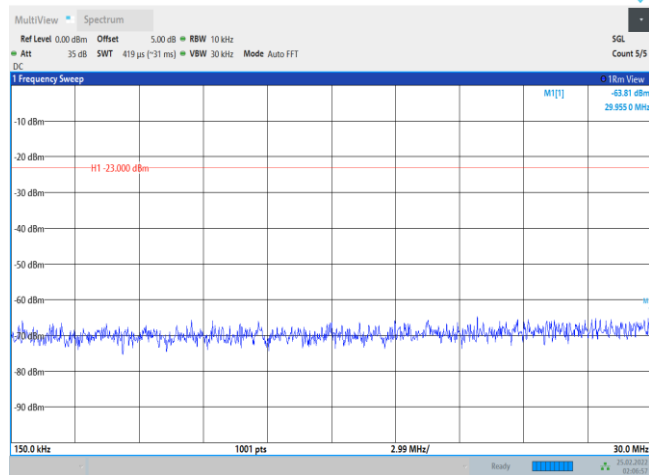
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Band17-10MHz-QPSK-23800-1RB#0-Range1:0.009~0.15MHz



02:06:50 25.02.2022

Band17-10MHz-QPSK-23800-1RB#0-Range2:0.15~30MHz



02:06:58 25.02.2022



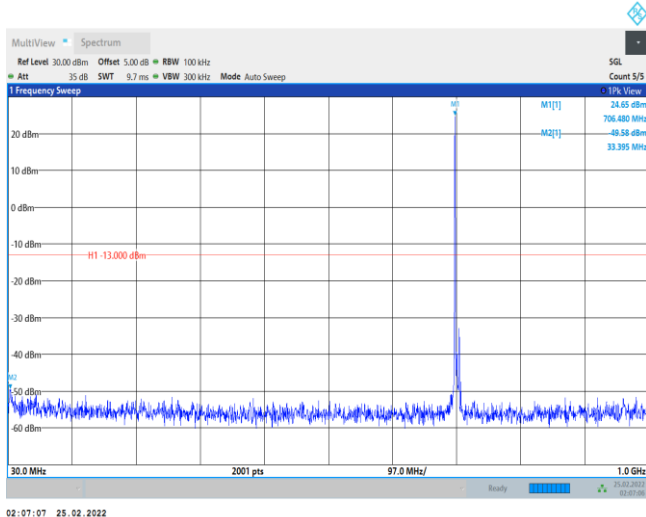
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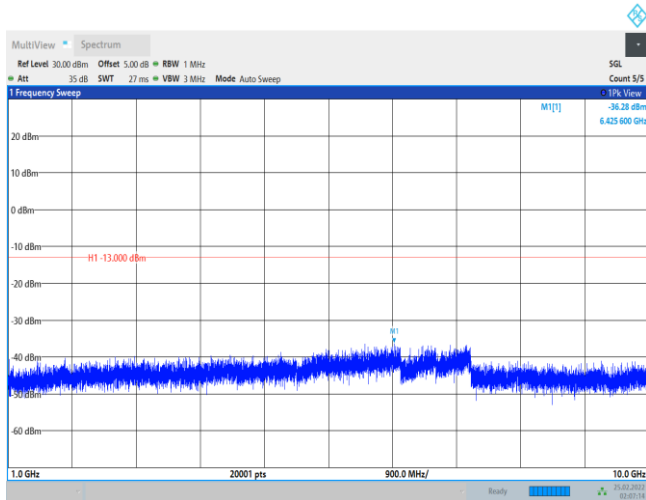
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Band17-10MHz-QPSK-23800-1RB#0-Range3:30~1000MHz



02:07:07 25.02.2022

Band17-10MHz-QPSK-23800-1RB#0-Range4:1000~10000MHz



02:07:15 25.02.2022



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## Field Strength of Spurious Radiation

Test Band =LTE Band 17\_ 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	1409.18	57.57	-118.56	-60.99	-13.00	47.99	128	35	Horizontal
2	2113.77	70.72	-115.99	-45.27	-13.00	32.27	142	10	Horizontal
3	2818.36	52.66	-112.98	-60.32	-13.00	47.32	235	10	Horizontal
4	3522.95	55.82	-111.83	-56.01	-13.00	43.01	194	35	Horizontal
5	4227.54	48.01	-109.41	-61.40	-13.00	48.40	178	19	Horizontal
6	4932.13	50.00	-107.93	-57.93	-13.00	44.93	222	4	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1409.18	56.69	-118.56	-61.87	-13.00	48.87	295	218	Vertical
2	2113.77	68.71	-115.99	-47.28	-13.00	34.28	238	313	Vertical
3	2818.36	51.95	-112.98	-61.03	-13.00	48.03	174	187	Vertical
4	3522.95	56.54	-111.83	-55.29	-13.00	42.29	162	125	Vertical
5	4227.54	48.52	-109.41	-60.89	-13.00	47.89	142	125	Vertical
6	4932.13	51.16	-107.93	-56.77	-13.00	43.77	203	313	Vertical



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Test Band =LTE Band 17\_ 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	1411.18	57.01	-118.55	-61.54	-13.00	48.54	148	99	Horizontal
2	2116.77	67.60	-115.98	-48.38	-13.00	35.38	195	356	Horizontal
3	2822.36	53.63	-112.97	-59.34	-13.00	46.34	235	29	Horizontal
4	3527.95	55.22	-111.81	-56.59	-13.00	43.59	142	29	Horizontal
5	4233.54	48.44	-109.40	-60.96	-13.00	47.96	175	344	Horizontal
6	4939.13	49.76	-107.90	-58.14	-13.00	45.14	239	328	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1411.18	56.81	-118.55	-61.74	-13.00	48.74	194	235	Vertical
2	2116.77	69.27	-115.98	-46.71	-13.00	33.71	254	343	Vertical
3	2822.36	51.31	-112.97	-61.66	-13.00	48.66	168	359	Vertical
4	3527.95	56.31	-111.81	-55.50	-13.00	42.50	172	108	Vertical
5	4233.54	48.82	-109.40	-60.58	-13.00	47.58	222	77	Vertical
6	4939.13	50.31	-107.90	-57.59	-13.00	44.59	235	139	Vertical



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Test Band =LTE Band 17\_ 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	1413.18	57.19	-118.54	-61.35	-13.00	48.35	125	59	Horizontal
2	2119.77	68.76	-115.97	-47.21	-13.00	34.21	238	18	Horizontal
3	2826.36	53.94	-112.96	-59.02	-13.00	46.02	191	33	Horizontal
4	3532.95	53.25	-111.79	-58.54	-13.00	45.54	172	33	Horizontal
5	4239.54	49.00	-109.39	-60.39	-13.00	47.39	185	145	Horizontal
6	4946.13	49.27	-107.87	-58.60	-13.00	45.60	142	26	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	57.43	-118.54	-61.11	-13.00	48.11	229	218	Vertical
2	2119.77	68.08	-115.97	-47.89	-13.00	34.89	199	328	Vertical
3	2826.36	51.86	-112.96	-61.10	-13.00	48.10	148	203	Vertical
4	3532.95	55.28	-111.79	-56.51	-13.00	43.51	176	125	Vertical
5	4239.54	48.69	-109.39	-60.70	-13.00	47.70	148	297	Vertical
6	4946.13	50.68	-107.87	-57.19	-13.00	44.19	281	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
Band17	10MHz	QPSK	23790	50RB#0	VL	NT	-0.20	-0.000282	PASS
Band17	10MHz	QPSK	23790	50RB#0	VN	NT	0.30	0.000423	PASS
Band17	10MHz	QPSK	23790	50RB#0	VH	NT	-0.10	-0.000141	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band17	10MHz	QPSK	23790	50RB#0	NV	-30	-0.40	-0.000563	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-20	0.50	0.000704	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	-10	1.00	0.001408	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	0	1.50	0.002113	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	10	0.60	0.000845	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	20	-0.70	-0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	30	-0.70	-0.000986	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	40	0.00	0.000000	PASS
Band17	10MHz	QPSK	23790	50RB#0	NV	50	-0.70	-0.000986	PASS

The End



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