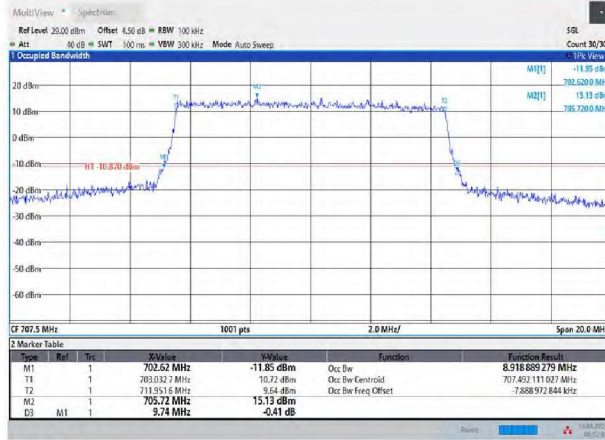
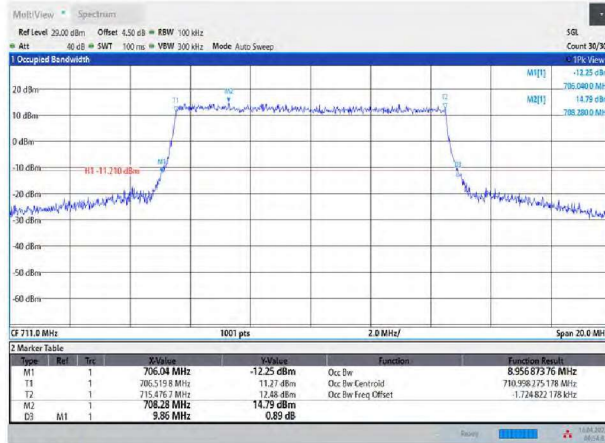


Band12-10MHz-16QAM-23095-50RB#0



Band12-10MHz-16QAM-23130-50RB#0

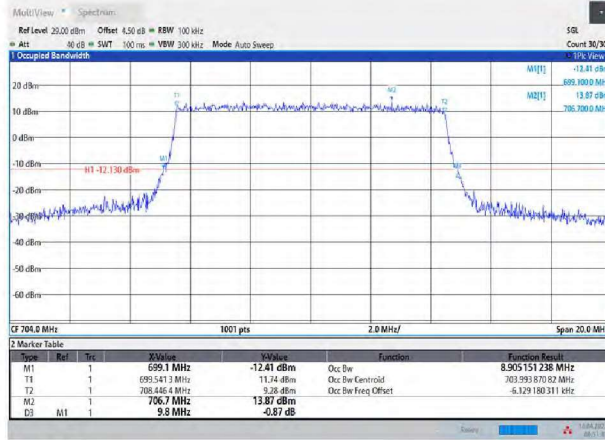


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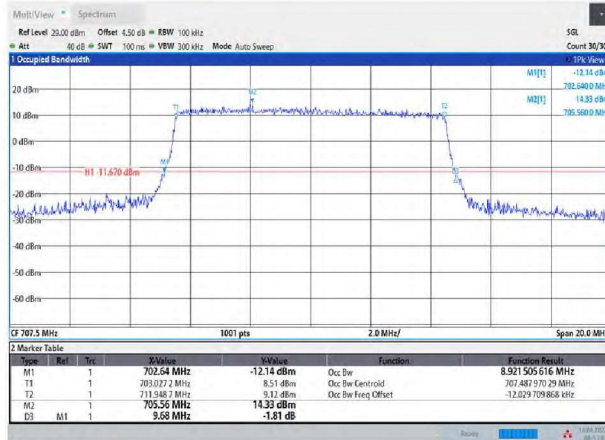
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Band12-10MHz-64QAM-23060-50RB#0



00:51:49 16. 04. 2022

Band12-10MHz-64QAM-23095-50RB#0



00:53:04 16. 04. 2022

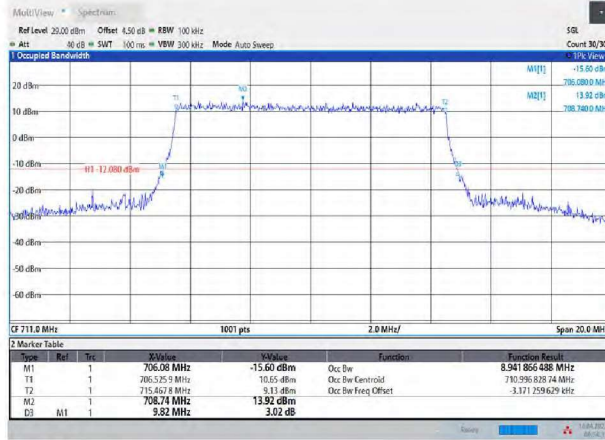


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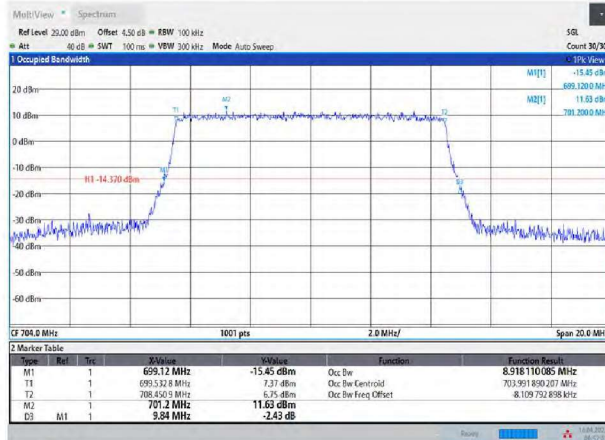
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Band12-10MHz-64QAM-23130-50RB#0



00:54:19 16. 04. 2022

Band12-10MHz-256QAM-23060-50RB#0



00:52:07 16. 04. 2022

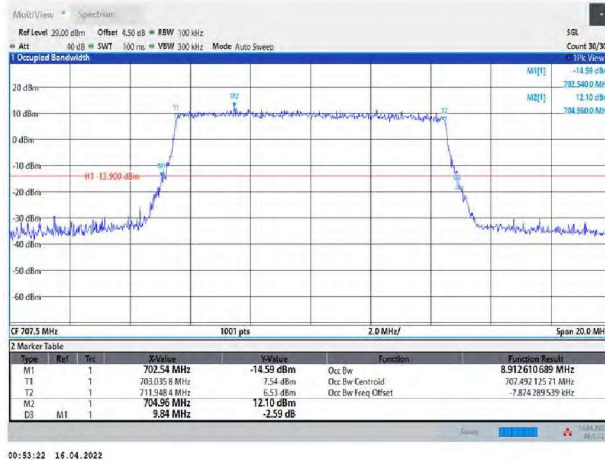


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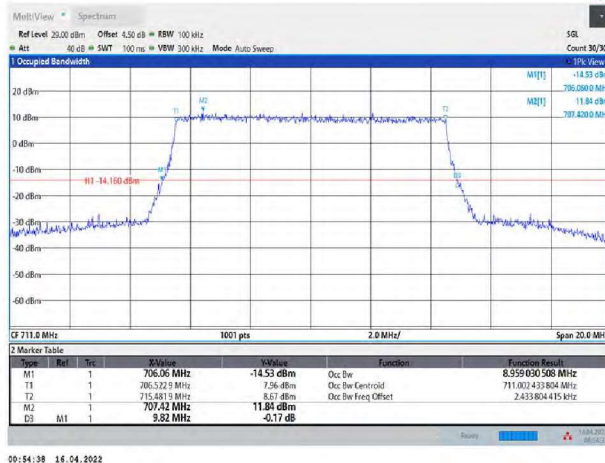
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Band12-10MHz-256QAM-23095-50RB#0



Band12-10MHz-256QAM-23130-50RB#0



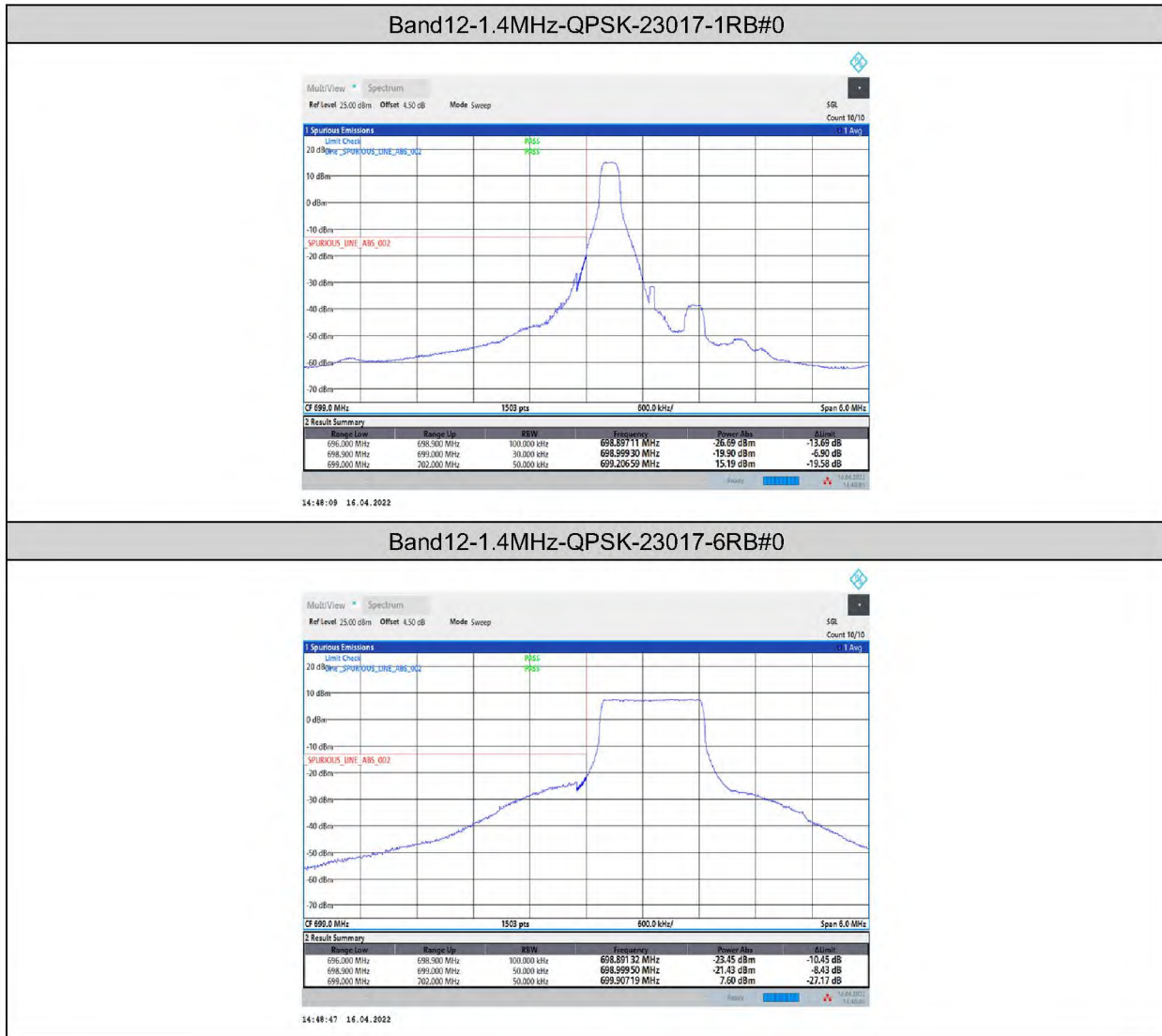
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Band Edge

Test Graphs

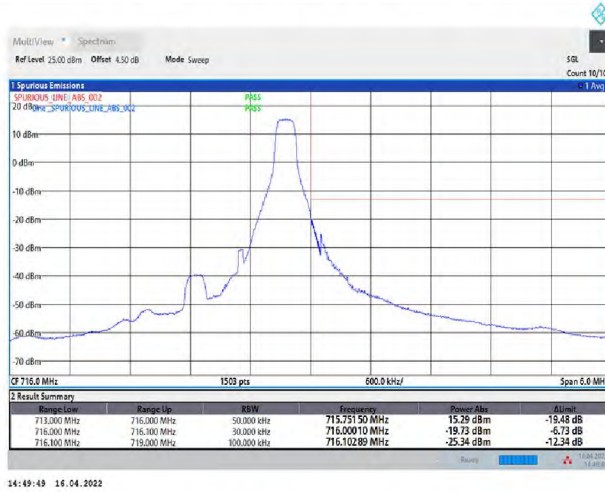


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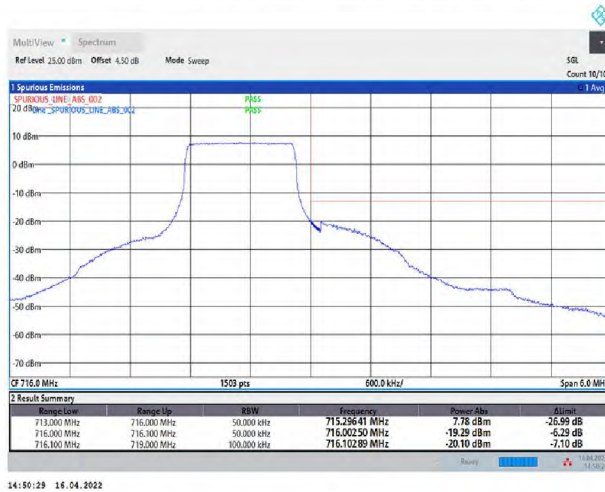
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Band12-1.4MHz-QPSK-23173-1RB#5



Band12-1.4MHz-QPSK-23173-6RB#0

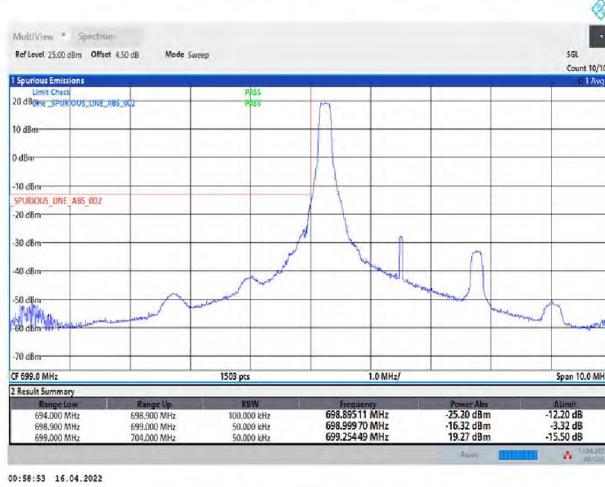


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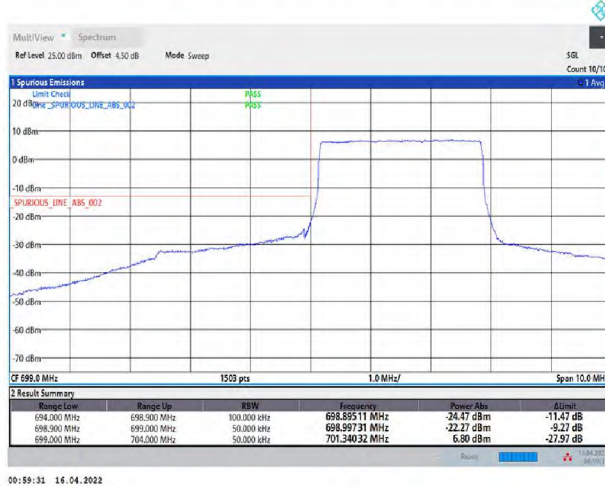
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Band12-3MHz-QPSK-23025-1RB#0



Band12-3MHz-QPSK-23025-15RB#0

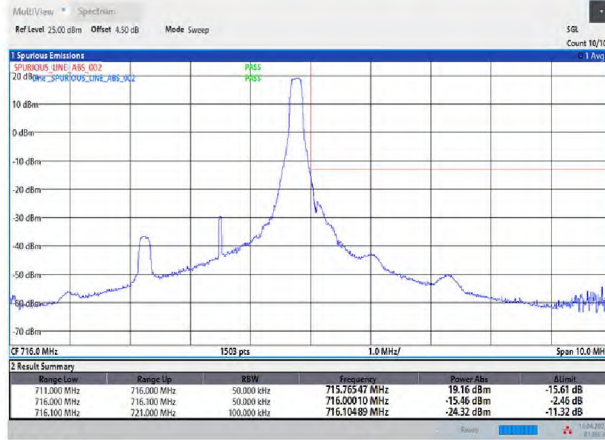


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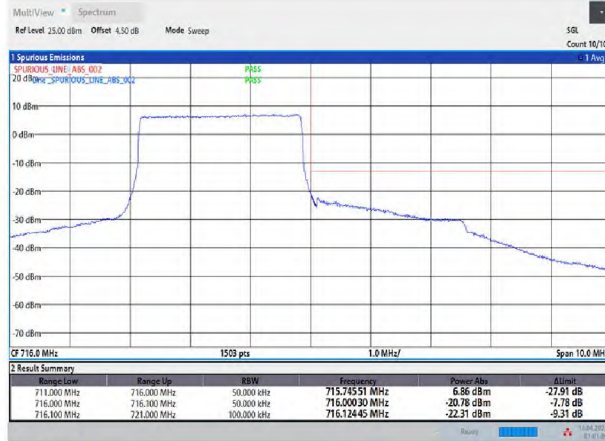
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Band12-3MHz-QPSK-23165-1RB#14



Band12-3MHz-QPSK-23165-15RB#0

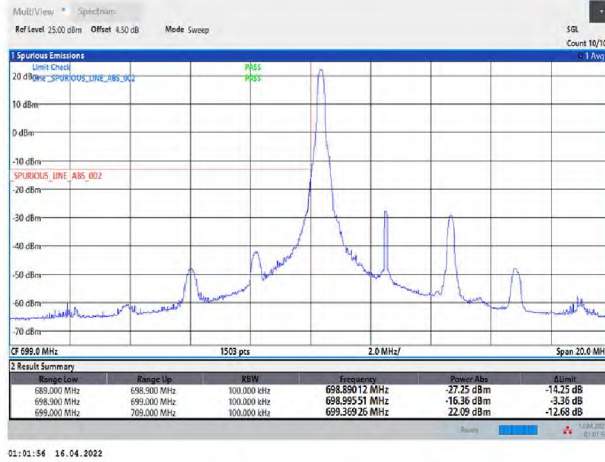


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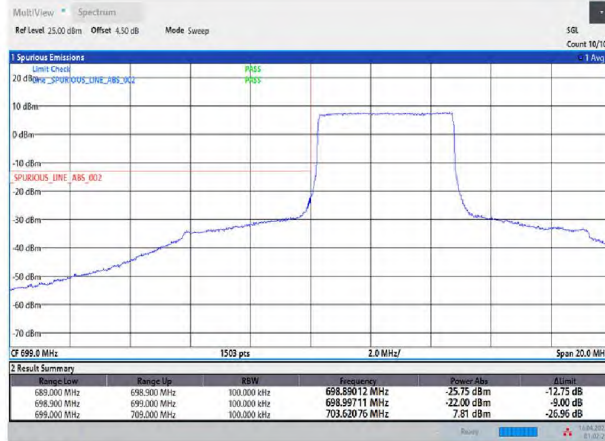
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Band12-5MHz-QPSK-23035-1RB#0



01:01:54 16. 04. 2022

Band12-5MHz-QPSK-23035-25RB#0



01:02:25 16. 04. 2022

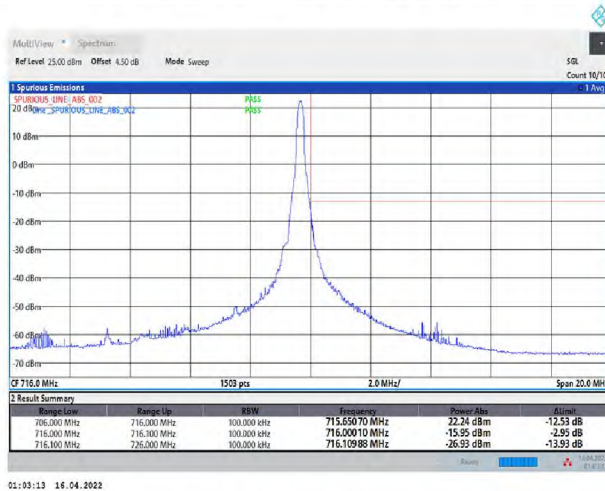


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Band12-5MHz-QPSK-23155-1RB#24



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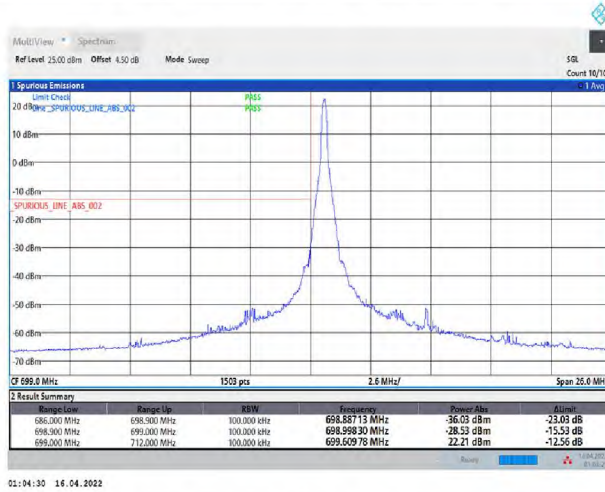


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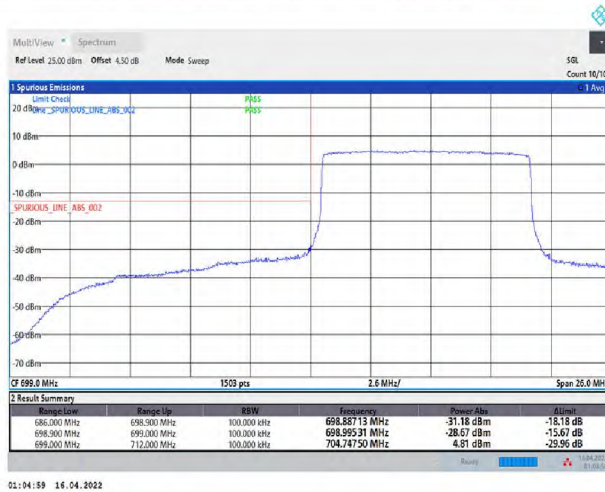
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Band12-10MHz-QPSK-23060-1RB#0



Band12-10MHz-QPSK-23060-50RB#0

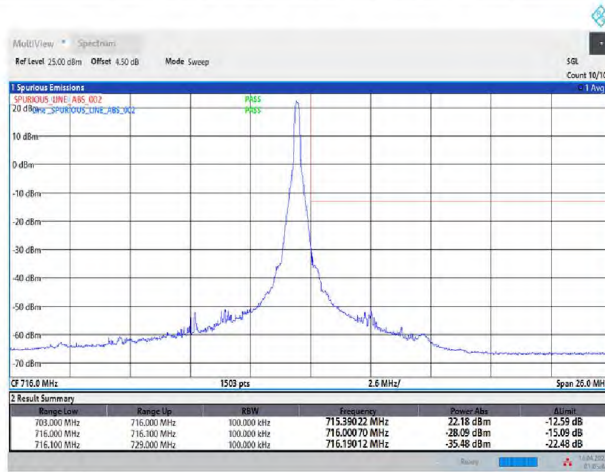


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Band12-10MHz-QPSK-23130-1RB#49



01:05:46 16. 04. 2022

Band12-10MHz-QPSK-23130-50RB#0



01:06:15 16. 04. 2022



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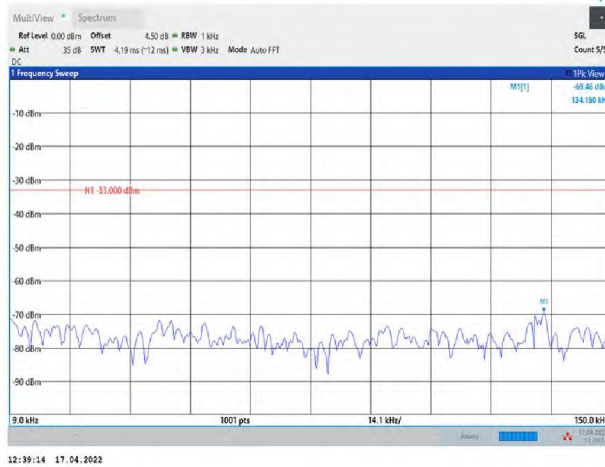
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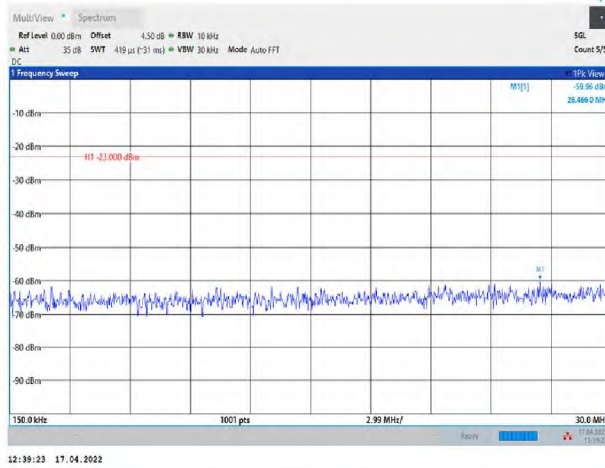
Conducted Spurious Emission

Test Graphs

Band12-10MHz-QPSK-23060-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23060-1RB#0-Range2:0.15~30MHz



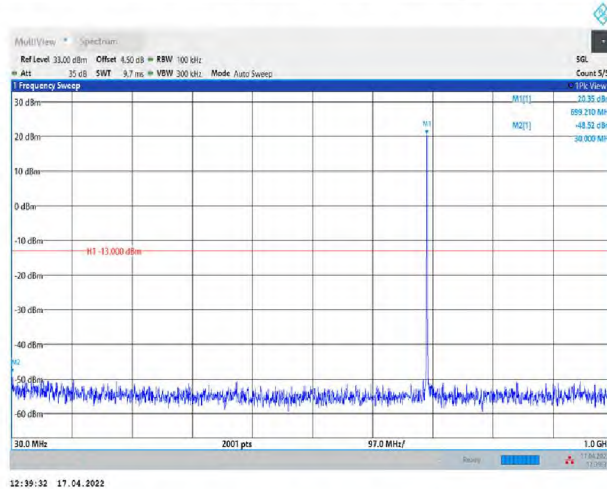
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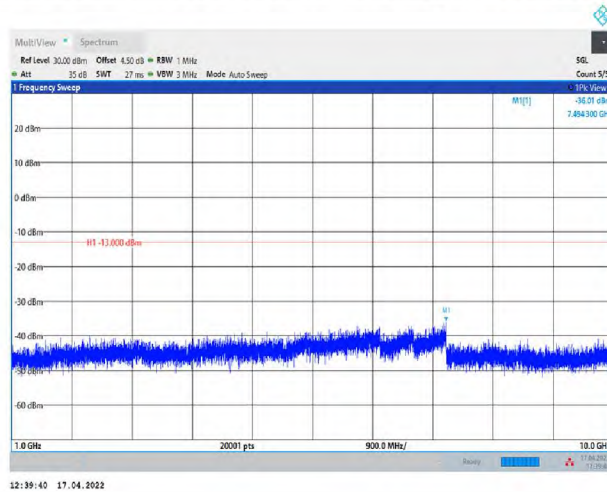
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Band12-10MHz-QPSK-23060-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23060-1RB#0-Range4:1000~10000MHz



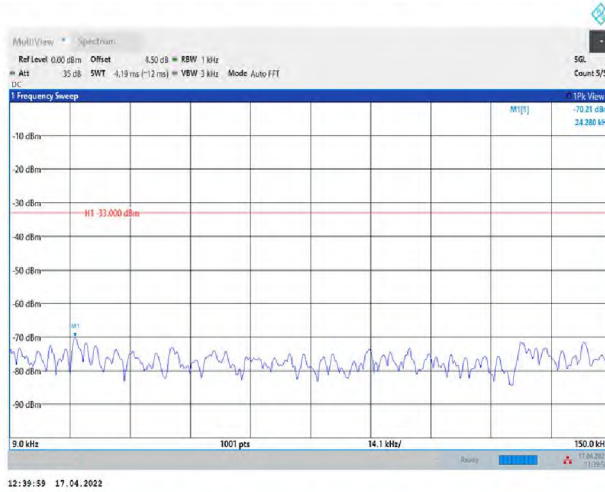
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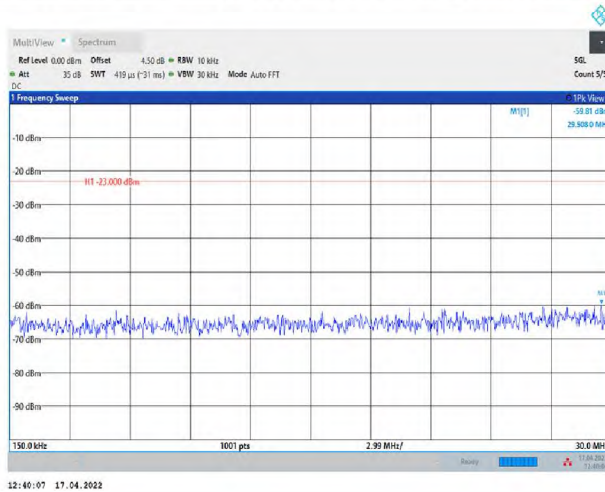
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Band12-10MHz-QPSK-23095-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23095-1RB#0-Range2:0.15~30MHz

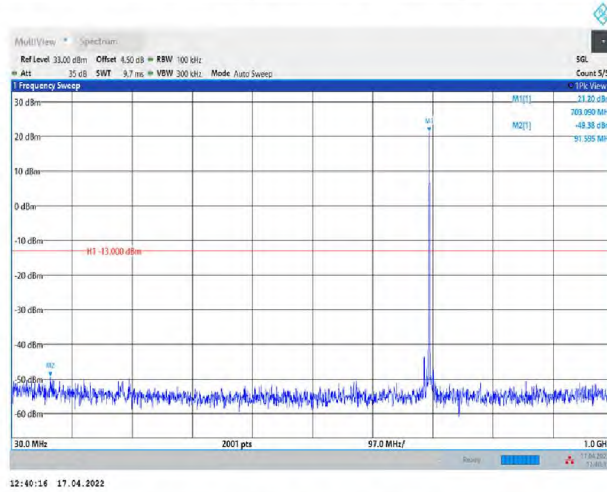


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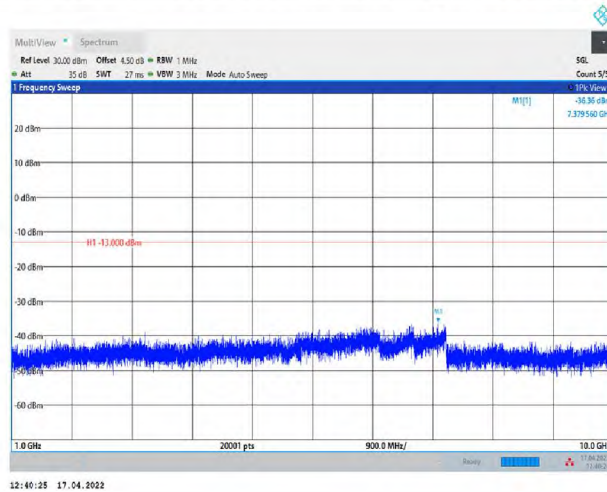
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Band12-10MHz-QPSK-23095-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23095-1RB#0-Range4:1000~10000MHz

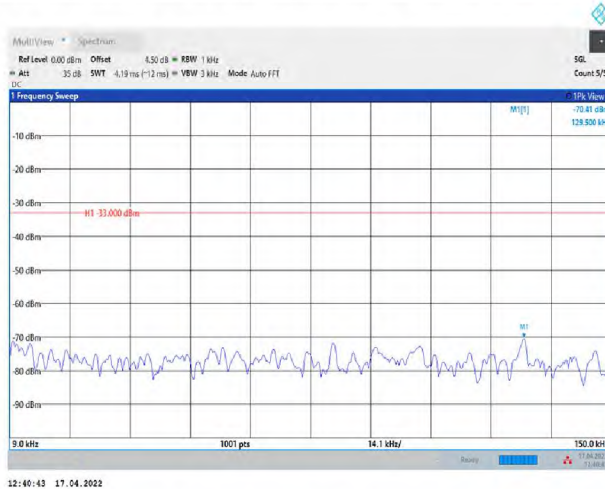


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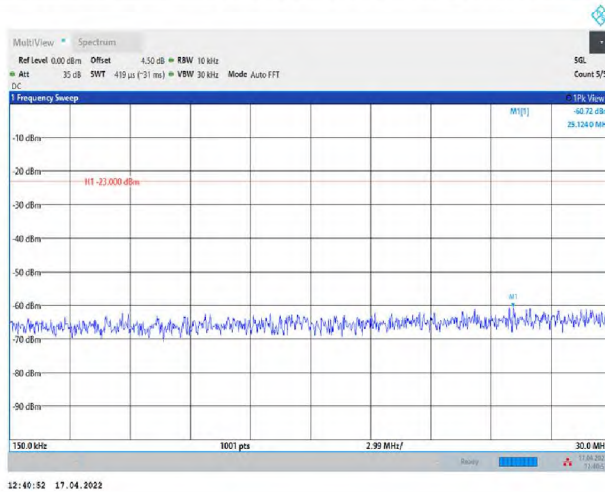
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Band12-10MHz-QPSK-23130-1RB#0-Range1:0.009~0.15MHz



Band12-10MHz-QPSK-23130-1RB#0-Range2:0.15~30MHz



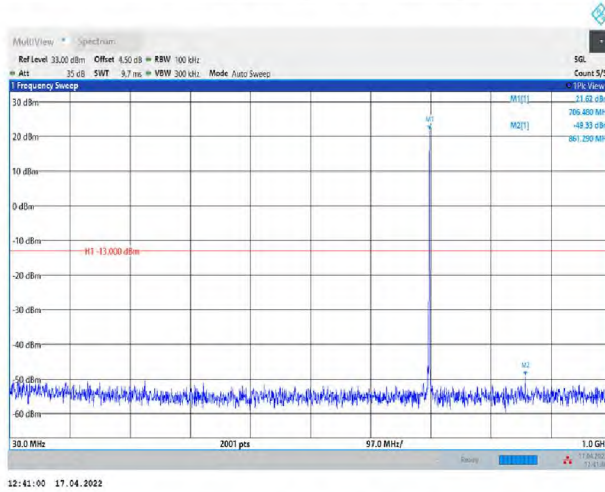
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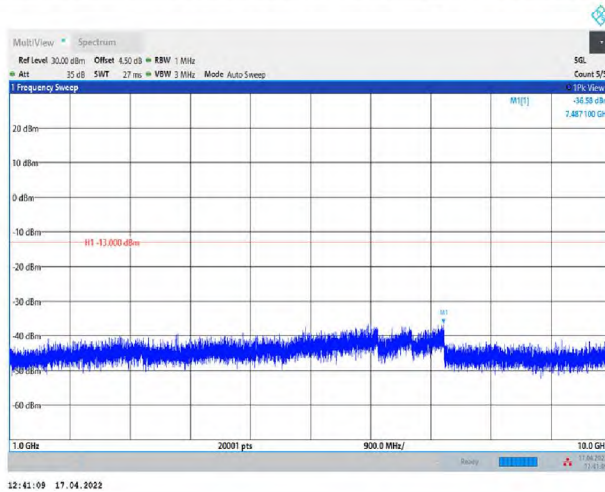
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Band12-10MHz-QPSK-23130-1RB#0-Range3:30~1000MHz



Band12-10MHz-QPSK-23130-1RB#0-Range4:1000~10000MHz



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Field Strength of Spurious Radiation

Test Band = LTE Band 12_ 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	1399.18	53.77	-118.59	-64.82	-13.00	51.82	263	235	Horizontal
2	2098.77	54.87	-116.04	-61.17	-13.00	48.17	251	157	Horizontal
3	2798.36	51.09	-113.03	-61.94	-13.00	48.94	175	313	Horizontal
4	3497.95	50.71	-111.91	-61.20	-13.00	48.20	265	32	Horizontal
5	4197.54	50.46	-109.46	-59.00	-13.00	46.00	284	360	Horizontal
6	4897.13	50.79	-108.04	-57.25	-13.00	44.25	174	3	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.18	52.99	-118.59	-65.60	-13.00	52.60	263	357	Vertical
2	2098.77	51.86	-116.04	-64.18	-13.00	51.18	241	267	Vertical
3	2798.36	51.40	-113.03	-61.63	-13.00	48.63	176	68	Vertical
4	3497.95	50.08	-111.91	-61.83	-13.00	48.83	265	0	Vertical
5	4197.54	49.28	-109.46	-60.18	-13.00	47.18	241	51	Vertical
6	4897.13	50.15	-108.04	-57.89	-13.00	44.89	175	10	Vertical



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Test Band = LTE Band 12_ 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	1406.18	55.64	-118.57	-62.93	-13.00	49.93	263	76	Horizontal
2	2109.27	59.92	-116.01	-56.09	-13.00	43.09	251	154	Horizontal
3	2812.36	51.35	-112.99	-61.64	-13.00	48.64	176	199	Horizontal
4	3515.45	51.75	-111.86	-60.11	-13.00	47.11	265	76	Horizontal
5	4218.54	48.34	-109.42	-61.08	-13.00	48.08	254	360	Horizontal
6	4921.63	51.28	-107.97	-56.69	-13.00	43.69	177	356	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	55.34	-118.57	-63.23	-13.00	50.23	263	62	Vertical
2	2109.27	51.83	-116.01	-64.18	-13.00	51.18	251	264	Vertical
3	2812.36	52.69	-112.99	-60.30	-13.00	47.30	176	313	Vertical
4	3515.45	51.17	-111.86	-60.69	-13.00	47.69	254	31	Vertical
5	4218.54	48.60	-109.42	-60.82	-13.00	47.82	177	31	Vertical
6	4921.63	50.00	-107.97	-57.97	-13.00	44.97	185	76	Vertical



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Test Band = LTE Band 12_ 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	56.33	-118.54	-62.21	-13.00	49.21	263	263	Horizontal
2	2119.77	58.08	-115.97	-57.89	-13.00	44.89	251	138	Horizontal
3	2826.36	52.96	-112.96	-60.00	-13.00	47.00	174	230	Horizontal
4	3532.95	50.16	-111.79	-61.63	-13.00	48.63	262	153	Horizontal
5	4239.54	49.57	-109.39	-59.82	-13.00	46.82	263	294	Horizontal
6	4946.13	51.22	-107.87	-56.65	-13.00	43.65	241	122	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	53.93	-118.54	-64.61	-13.00	51.61	265	297	Vertical
2	2119.77	51.83	-115.97	-64.14	-13.00	51.14	241	188	Vertical
3	2826.36	50.92	-112.96	-62.04	-13.00	49.04	175	204	Vertical
4	3532.95	51.30	-111.79	-60.49	-13.00	47.49	244	0	Vertical
5	4239.54	49.00	-109.39	-60.39	-13.00	47.39	175	346	Vertical
6	4946.13	50.76	-107.87	-57.11	-13.00	44.11	263	250	Vertical



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Test Band = UL CA Band 2A-12A_ 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	1399.18	40.70	-95.67	-54.97	-13.00	41.97	263	0	Horizontal
2	2098.77	41.86	-93.07	-51.21	-13.00	38.21	241	266	Horizontal
3	2798.36	40.11	-90.04	-49.93	-13.00	36.93	176	319	Horizontal
4	3702.18	50.17	-111.07	-60.90	-13.00	47.90	265	3	Horizontal
5	5553.27	48.66	-106.36	-57.70	-13.00	44.70	284	261	Horizontal
6	7404.36	47.56	-100.78	-53.22	-13.00	40.22	178	81	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.18	41.63	-95.67	-54.04	-13.00	41.04	263	357	Vertical
2	2098.77	40.17	-93.07	-52.90	-13.00	39.90	251	348	Vertical
3	2798.36	40.29	-90.04	-49.75	-13.00	36.75	174	138	Vertical
4	3702.18	50.55	-111.07	-60.52	-13.00	47.52	265	16	Vertical
5	5553.27	49.89	-106.36	-56.47	-13.00	43.47	284	16	Vertical
6	7404.36	49.40	-100.78	-51.38	-13.00	38.38	178	341	Vertical



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Test Band = UL CA Band 2A-12A_ 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	1406.18	41.02	-95.64	-54.62	-13.00	41.62	152	9	Horizontal
2	2109.27	40.89	-93.05	-52.16	-13.00	39.16	263	108	Horizontal
3	2812.36	39.97	-89.95	-49.98	-13.00	36.98	241	25	Horizontal
4	3742.18	53.22	-110.86	-57.64	-13.00	44.64	176	360	Horizontal
5	5613.27	50.10	-106.14	-56.04	-13.00	43.04	284	16	Horizontal
6	7484.36	49.27	-100.43	-51.16	-13.00	38.16	177	196	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	41.97	-95.64	-53.67	-13.00	40.67	263	6	Vertical
2	2109.27	40.36	-93.05	-52.69	-13.00	39.69	241	172	Vertical
3	2812.36	40.10	-89.95	-49.85	-13.00	36.85	176	99	Vertical
4	3742.18	54.56	-110.86	-56.30	-13.00	43.30	251	31	Vertical
5	5613.27	50.10	-106.14	-56.04	-13.00	43.04	178	360	Vertical
6	7484.36	47.45	-100.43	-52.98	-13.00	39.98	148	360	Vertical



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Test Band = UL CA Band 2A-12A_ 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	42.22	-95.62	-53.40	-13.00	40.40	263	120	Horizontal
2	2119.77	41.72	-93.02	-51.30	-13.00	38.30	241	68	Horizontal
3	2826.36	40.54	-89.86	-49.32	-13.00	36.32	176	357	Horizontal
4	3782.18	52.66	-110.66	-58.00	-13.00	45.00	251	292	Horizontal
5	5673.27	49.23	-105.88	-56.65	-13.00	43.65	186	163	Horizontal
6	7564.36	48.04	-100.01	-51.97	-13.00	38.97	264	261	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	40.97	-95.62	-54.65	-13.00	41.65	263	321	Vertical
2	2119.77	41.35	-93.02	-51.67	-13.00	38.67	241	321	Vertical
3	2826.36	41.78	-89.86	-48.08	-13.00	35.08	176	193	Vertical
4	3782.18	52.50	-110.66	-58.16	-13.00	45.16	251	310	Vertical
5	5673.27	49.68	-105.88	-56.20	-13.00	43.20	178	116	Vertical
6	7564.36	49.99	-100.01	-50.02	-13.00	37.02	264	65	Vertical



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Test Band = UL CA Band 4A-12A_ 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	1399.18	41.42	-95.67	-54.25	-13.00	41.25	263	340	Horizontal
2	2098.77	41.04	-93.07	-52.03	-13.00	39.03	241	17	Horizontal
3	2798.36	40.70	-90.04	-49.34	-13.00	36.34	176	357	Horizontal
4	3422.18	52.43	-111.71	-59.28	-13.00	46.28	261	180	Horizontal
5	5133.27	50.01	-106.90	-56.89	-13.00	43.89	178	180	Horizontal
6	6844.36	48.21	-101.87	-53.66	-13.00	40.66	264	66	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1399.18	41.00	-95.67	-54.67	-13.00	41.67	262	351	Vertical
2	2098.77	40.62	-93.07	-52.45	-13.00	39.45	296	193	Vertical
3	2798.36	40.15	-90.04	-49.89	-13.00	36.89	362	111	Vertical
4	3422.18	51.57	-111.71	-60.14	-13.00	47.14	144	3	Vertical
5	5133.27	49.93	-106.90	-56.97	-13.00	43.97	178	175	Vertical
6	6844.36	48.94	-101.87	-52.93	-13.00	39.93	265	360	Vertical



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Test Band = UL CA Band 4A-12A_ 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	1406.18	40.94	-95.64	-54.70	-13.00	41.70	263	121	Horizontal
2	2109.27	41.52	-93.05	-51.53	-13.00	38.53	241	109	Horizontal
3	2812.36	40.54	-89.95	-49.41	-13.00	36.41	176	10	Horizontal
4	3447.18	51.58	-111.65	-60.07	-13.00	47.07	284	164	Horizontal
5	5170.77	50.90	-106.85	-55.95	-13.00	42.95	186	131	Horizontal
6	6894.36	47.43	-101.71	-54.28	-13.00	41.28	241	212	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1406.18	41.38	-95.64	-54.26	-13.00	41.26	142	268	Vertical
2	2109.27	41.67	-93.05	-51.38	-13.00	38.38	263	38	Vertical
3	2812.36	39.14	-89.95	-50.81	-13.00	37.81	241	357	Vertical
4	3447.18	54.87	-111.65	-56.78	-13.00	43.78	176	360	Vertical
5	5170.77	49.86	-106.85	-56.99	-13.00	43.99	284	161	Vertical
6	6894.36	47.65	-101.71	-54.06	-13.00	41.06	186	359	Vertical



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Test Band = UL CA Band 4A-12A_ 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	42.01	-95.62	-53.61	-13.00	40.61	263	309	Horizontal
2	2119.77	41.61	-93.02	-51.41	-13.00	38.41	251	120	Horizontal
3	2826.36	39.98	-89.86	-49.88	-13.00	36.88	176	27	Horizontal
4	3472.18	53.34	-111.61	-58.27	-13.00	45.27	265	161	Horizontal
5	5208.27	49.79	-106.80	-57.01	-13.00	44.01	284	15	Horizontal
6	6944.36	48.23	-101.67	-53.44	-13.00	40.44	177	309	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1413.18	41.84	-95.62	-53.78	-13.00	40.78	263	18	Vertical
2	2119.77	40.59	-93.02	-52.43	-13.00	39.43	251	0	Vertical
3	2826.36	39.79	-89.86	-50.07	-13.00	37.07	174	161	Vertical
4	3472.18	55.06	-111.61	-56.55	-13.00	43.55	186	194	Vertical
5	5208.27	50.47	-106.80	-56.33	-13.00	43.33	264	46	Vertical
6	6944.36	47.89	-101.67	-53.78	-13.00	40.78	188	3	Vertical



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Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	VL	NT	-0.90	-0.001272	PASS
Band12	10MHz	QPSK	23095	50RB#0	VN	NT	-1.30	-0.001837	PASS
Band12	10MHz	QPSK	23095	50RB#0	VH	NT	-0.30	-0.000424	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band12	10MHz	QPSK	23095	50RB#0	NV	-30	-0.10	-0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-20	-0.40	-0.000565	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	-10	0.00	0.000000	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	0	1.30	0.001837	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	10	0.10	0.000141	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	20	1.20	0.001696	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	30	1.50	0.002120	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	40	0.20	0.000283	PASS
Band12	10MHz	QPSK	23095	50RB#0	NV	50	0.80	0.001131	PASS

The End



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