

Report No.: SEWM2203000022RG03

Rev.: 01

Page: 1 of 27

Appendix



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Report No.: SEWM2203000022RG03

Rev.: 01

Page: 2 of 27

Effective (Isotropic) Radiated Power Output Data

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dBm)	ERP(dBm)	Limit(dBm)	Verdict
Band14	5MHz	QPSK	23305	1RB#0	24.62	21.77	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#12	24.88	22.03	34.77	PASS
Band14	5MHz	QPSK	23305	1RB#24	24.59	21.74	34.77	PASS
Band14	5MHz	QPSK	23305	25RB#0	23.75	20.9	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#0	24.64	21.79	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#12	24.83	21.98	34.77	PASS
Band14	5MHz	QPSK	23330	1RB#24	24.53	21.68	34.77	PASS
Band14	5MHz	QPSK	23330	25RB#0	23.77	20.92	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#0	24.63	21.78	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#12	24.85	22	34.77	PASS
Band14	5MHz	QPSK	23355	1RB#24	24.53	21.68	34.77	PASS
Band14	5MHz	QPSK	23355	25RB#0	23.74	20.89	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#0	23.81	20.96	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#12	23.99	21.14	34.77	PASS
Band14	5MHz	16QAM	23305	1RB#24	23.81	20.96	34.77	PASS
Band14	5MHz	16QAM	23305	25RB#0	22.75	19.9	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#0	23.93	21.08	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#12	24.14	21.29	34.77	PASS
Band14	5MHz	16QAM	23330	1RB#24	23.81	20.96	34.77	PASS
Band14	5MHz	16QAM	23330	25RB#0	22.76	19.91	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#0	23.92	21.07	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#12	24.08	21.23	34.77	PASS
Band14	5MHz	16QAM	23355	1RB#24	23.8	20.95	34.77	PASS
Band14	5MHz	16QAM	23355	25RB#0	22.75	19.9	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#0	24.7	21.85	34.77	PASS



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Report No.: SEWM2203000022RG03

Rev.: 01

Page: 3 of 27

Band14	10MHz	QPSK	23330	1RB#24	24.85	22	34.77	PASS
Band14	10MHz	QPSK	23330	1RB#49	24.61	21.76	34.77	PASS
Band14	10MHz	QPSK	23330	50RB#0	23.82	20.97	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#0	24.02	21.17	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#24	24.03	21.18	34.77	PASS
Band14	10MHz	16QAM	23330	1RB#49	23.84	20.99	34.77	PASS
Band14	10MHz	16QAM	23330	50RB#0	22.81	19.96	34.77	PASS



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Report No.: SEWM2203000022RG03

Rev.: 01

Page: 4 of 27

Peak-to-Average Ratio(CCDF)

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result(dB)	Limit(dB)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	5.00	13	PASS
Band14	10MHz	16QAM	23330	50RB#0	5.78	13	PASS



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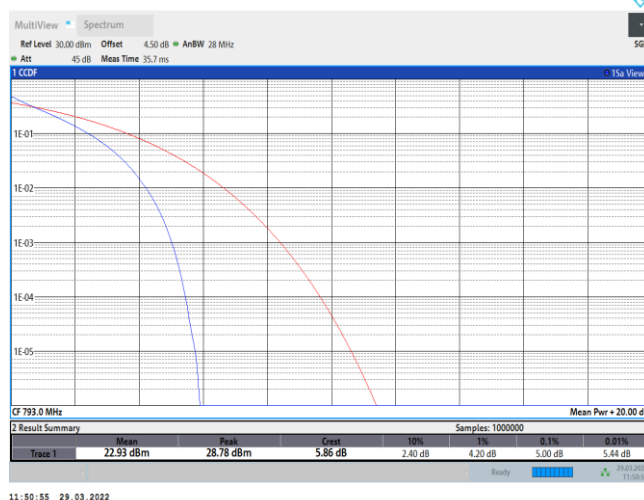
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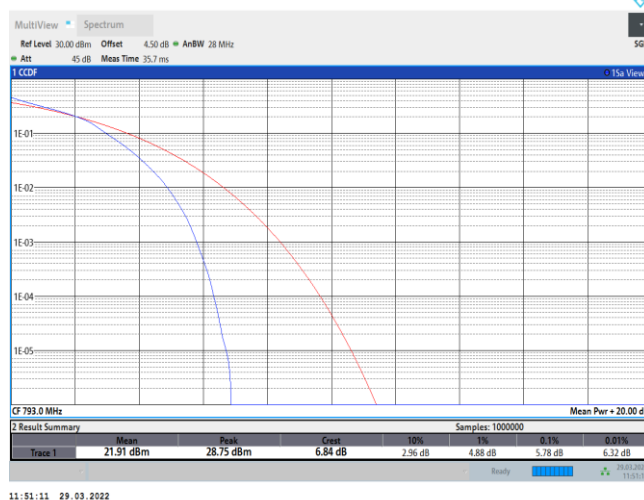
Page: 5 of 27

Test Graphs

Band14-10MHz-QPSK-23330-50RB#0



Band14-10MHz-16QAM-23330-50RB#0



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Report No.: SEWM2203000022RG03

Rev.: 01

Page: 6 of 27

Modulation Characteristics

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Result	Verdict
Band14	10MHz	QPSK	23330	50RB#0	PASS	PASS
Band14	10MHz	16QAM	23330	50RB#0	PASS	PASS



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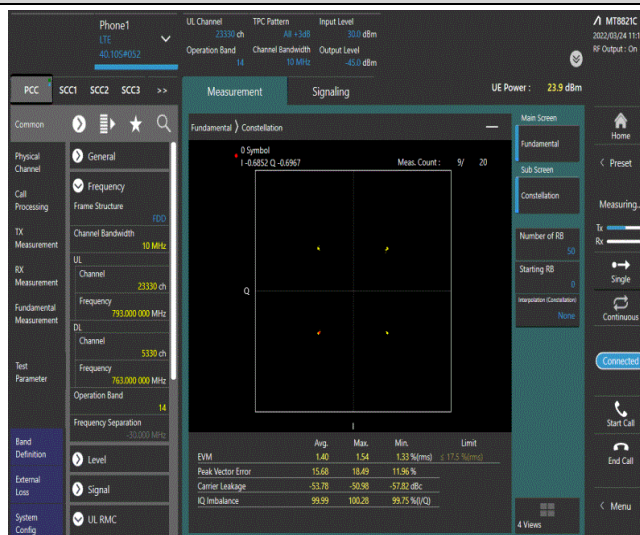
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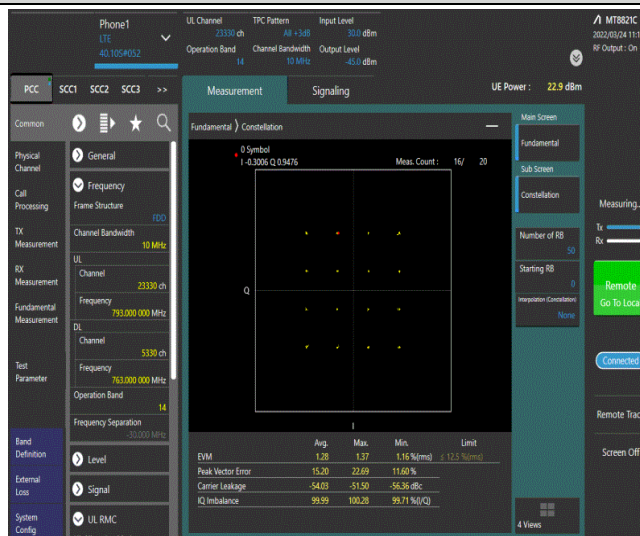
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Test Graphs

Band14-10MHz-QPSK-23330-50RB#0



Band14-10MHz-16QAM-23330-50RB#0



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Rev.: 01

Page: 8 of 27

26dB Bandwidth and Occupied Bandwidth

Test Result

Band	Bandwidth	Modulation	Channel	RB Configuration	Occupied Bandwidth (MHz)	26dB Bandwidth (MHz)	Verdict
Band14	5MHz	QPSK	23305	25RB#0	4.475	5.01	PASS
Band14	5MHz	QPSK	23330	25RB#0	4.474	5.05	PASS
Band14	5MHz	QPSK	23355	25RB#0	4.475	5.01	PASS
Band14	5MHz	16QAM	23305	25RB#0	4.472	5.01	PASS
Band14	5MHz	16QAM	23330	25RB#0	4.472	5.03	PASS
Band14	5MHz	16QAM	23355	25RB#0	4.471	5.01	PASS
Band14	10MHz	QPSK	23330	50RB#0	8.96	9.83	PASS
Band14	10MHz	16QAM	23330	50RB#0	8.928	9.80	PASS



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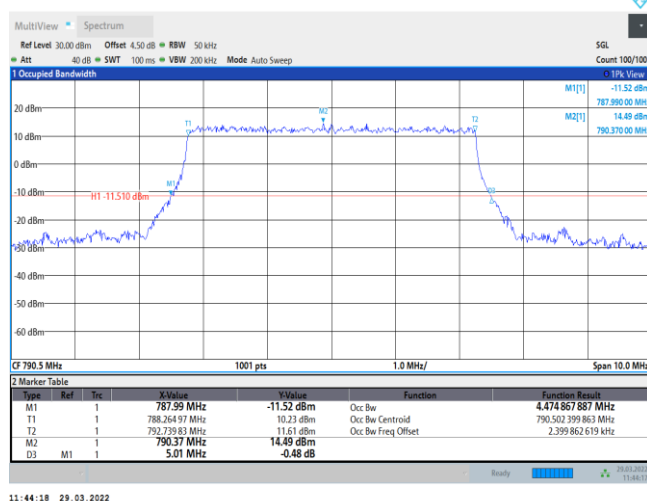
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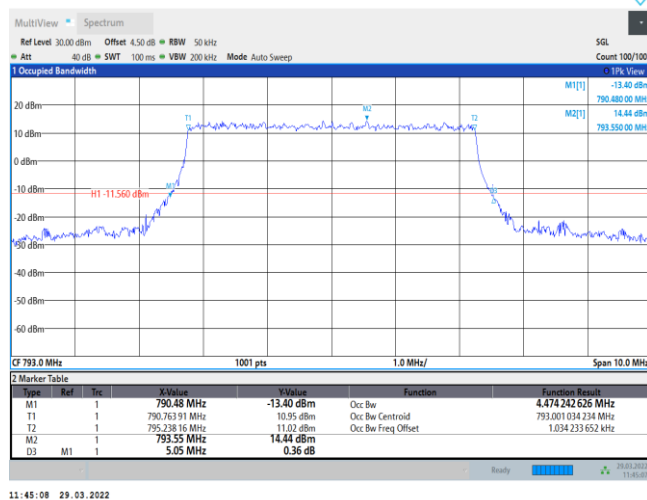
Page: 9 of 27

Test Graphs

Band14-5MHz-QPSK-23305-25RB#0



Band14-5MHz-QPSK-23330-25RB#0

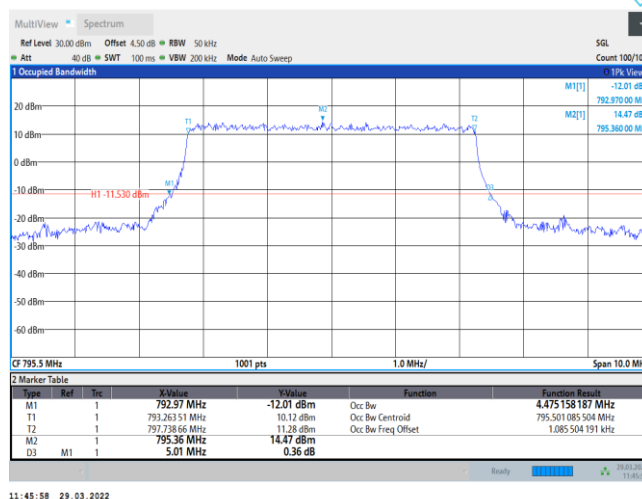


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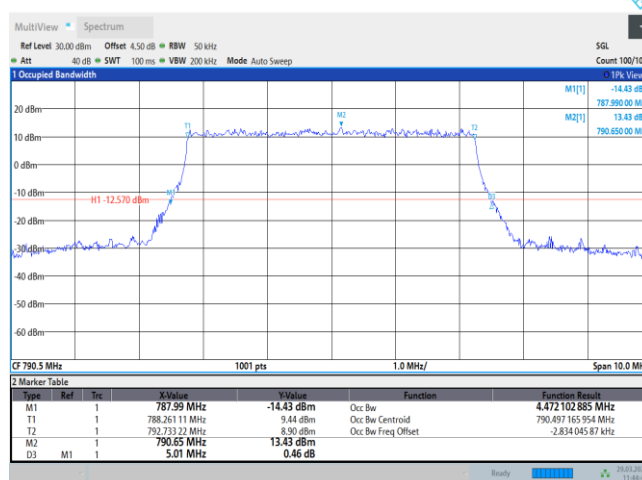
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Band14-5MHz-QPSK-23355-25RB#0



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Band14-5MHz-16QAM-23305-25RB#0



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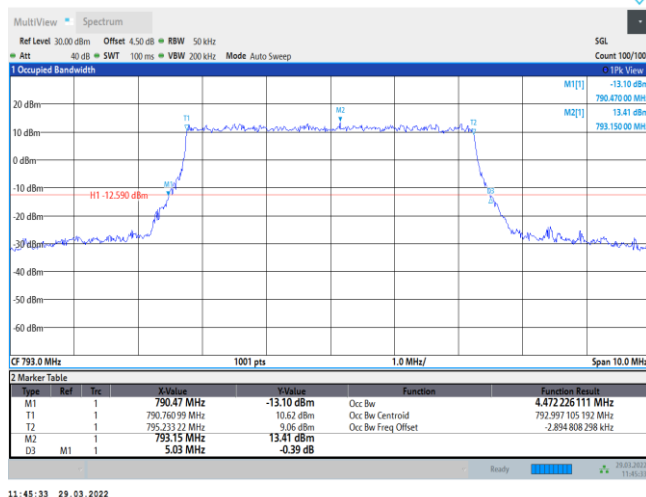
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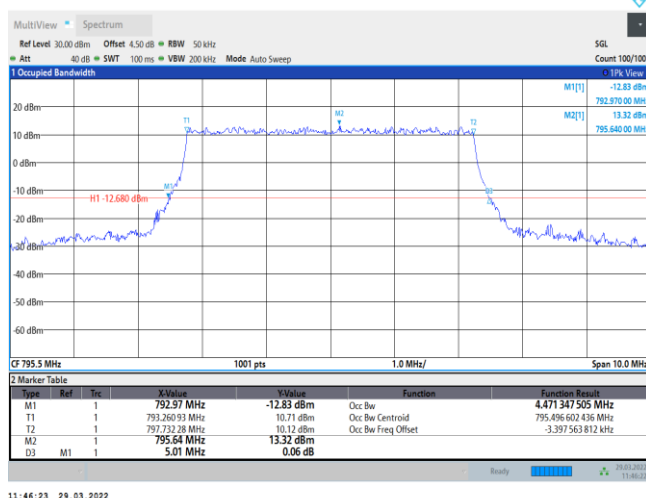
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Band14-5MHz-16QAM-23330-25RB#0



Band14-5MHz-16QAM-23355-25RB#0



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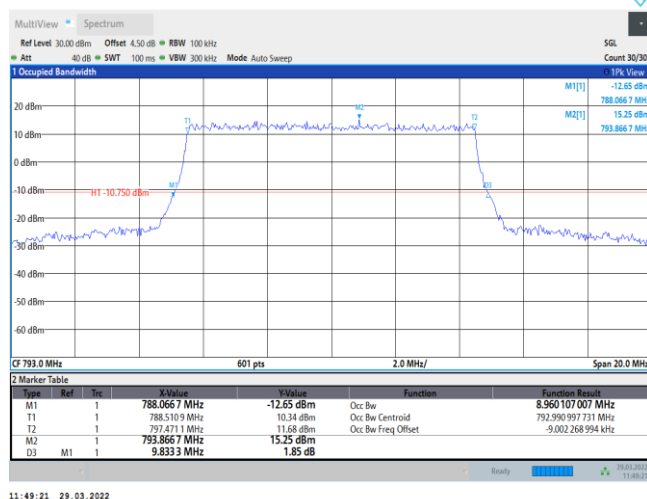
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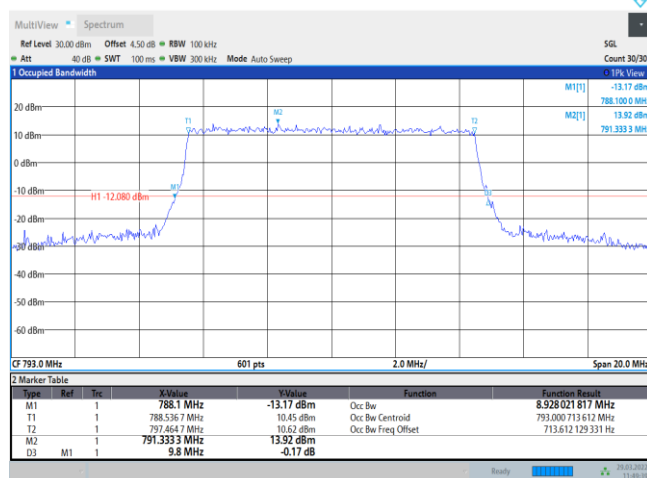
Page: 12 of 27

Band14-10MHz-QPSK-23330-50RB#0



11:49:21 29.03.2022

Band14-10MHz-16QAM-23330-50RB#0



11:49:39 29.03.2022



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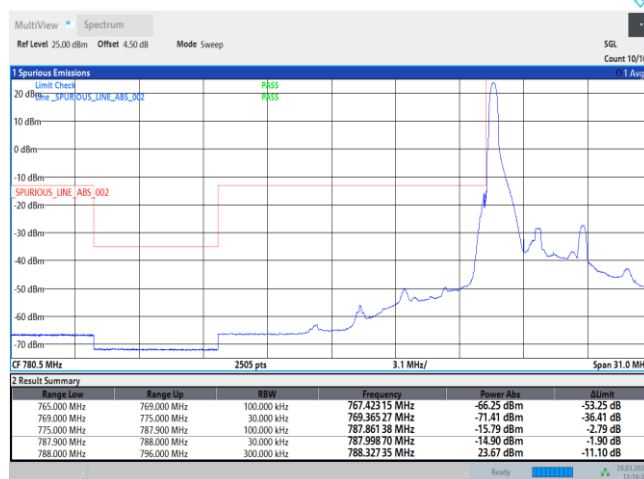
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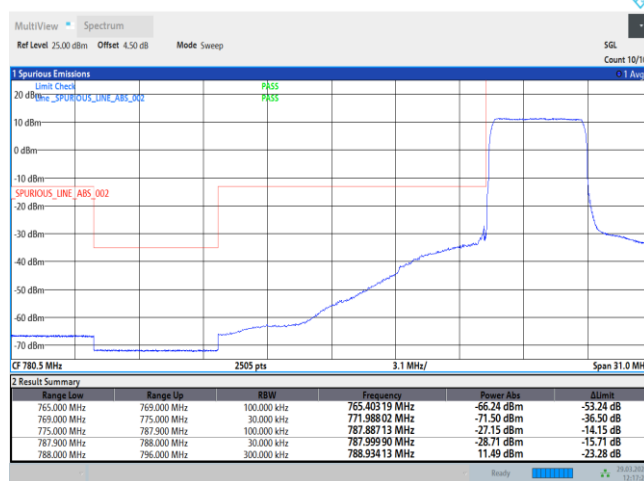
Band Edge

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-25RB#0



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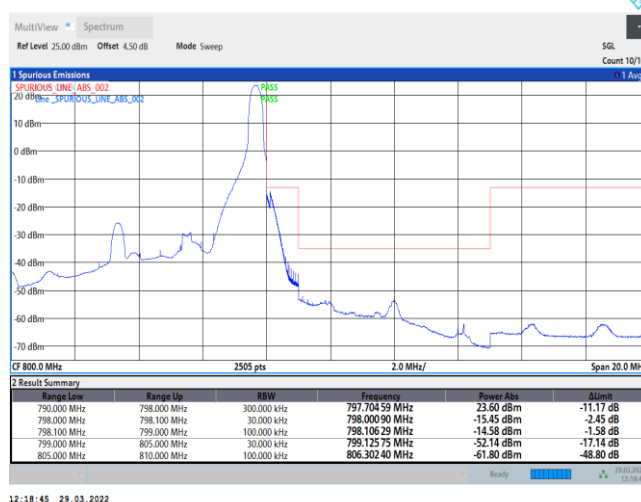
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Rev.: 01

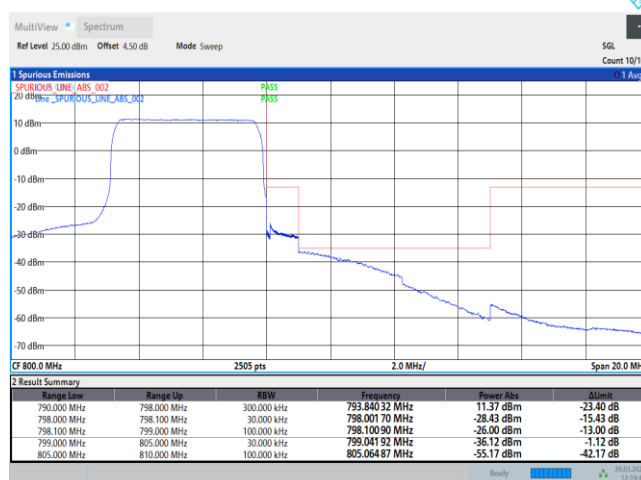
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Band14-5MHz-QPSK-23355-1RB#24



12:18:45 29.03.2022

Band14-5MHz-QPSK-23355-25RB#0



12:19:41 29.03.2022



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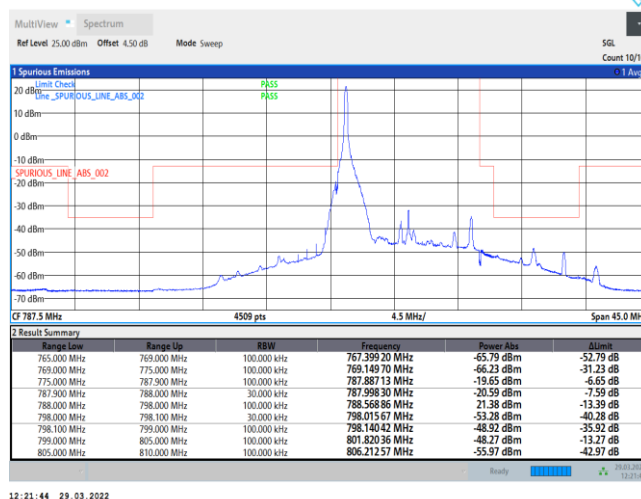
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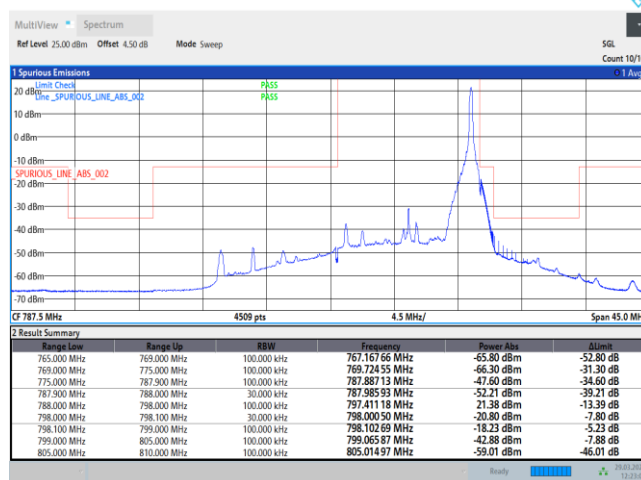
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Band14-10MHz-QPSK-23330-1RB#0



12:21:44 29.03.2022

Band14-10MHz-QPSK-23330-1RB#49



12:23:03 29.03.2022



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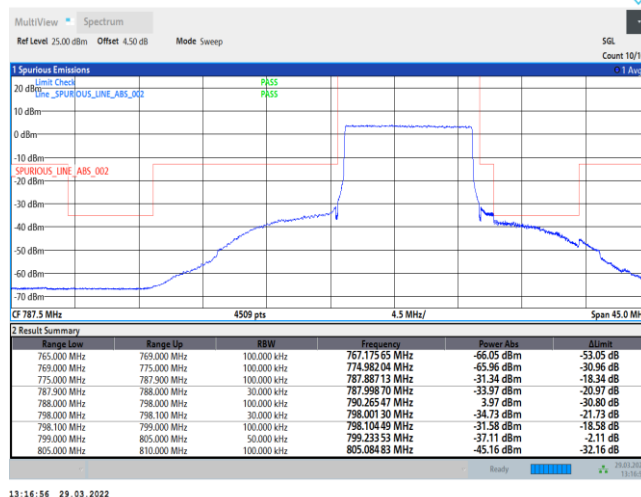
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Page: 16 of 27

Band14-10MHz-QPSK-23330-50RB#0



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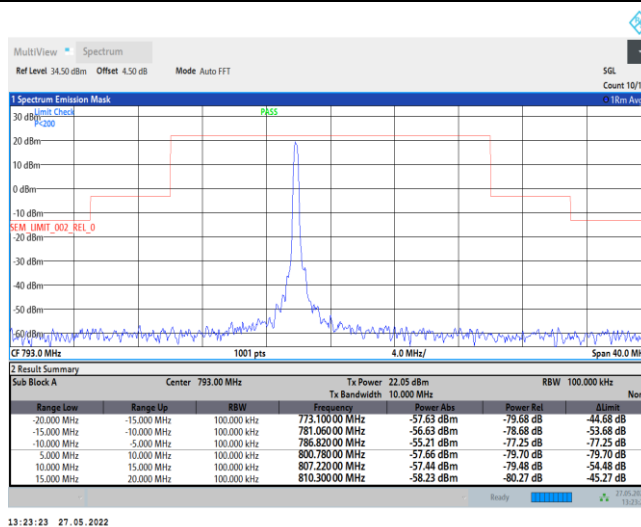
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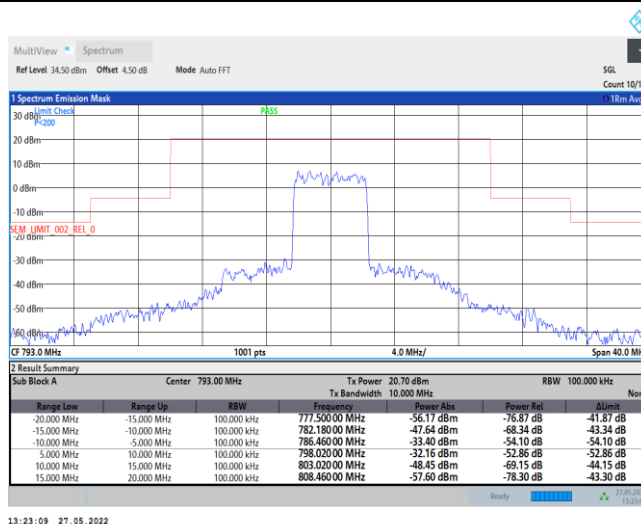
Emission Mask

Test Graphs

Band14-5MHz-QPSK-23305-1RB#0



Band14-5MHz-QPSK-23305-25RB#0



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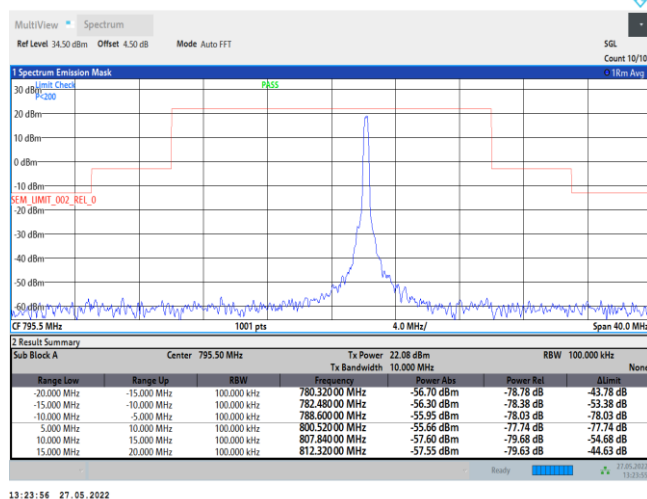
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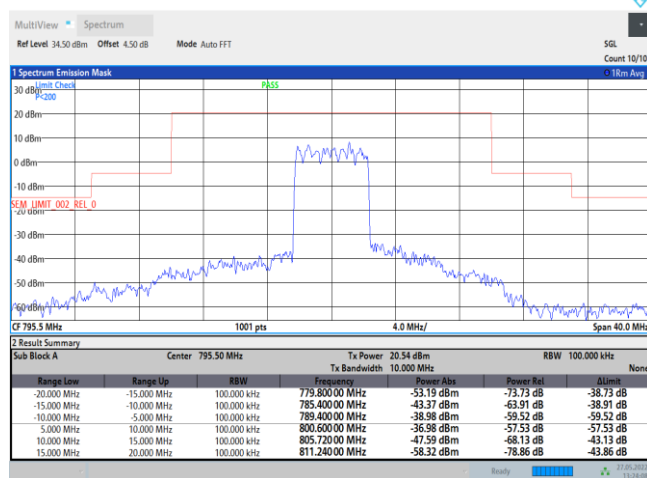
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Band14-5MHz-QPSK-23355-1RB#24



13:23:56 27.05.2022

Band14-5MHz-QPSK-23355-25RB#0



13:24:08 27.05.2022



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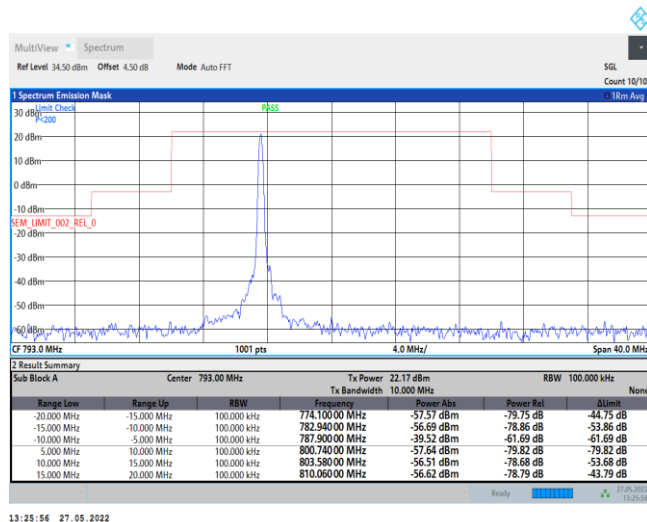
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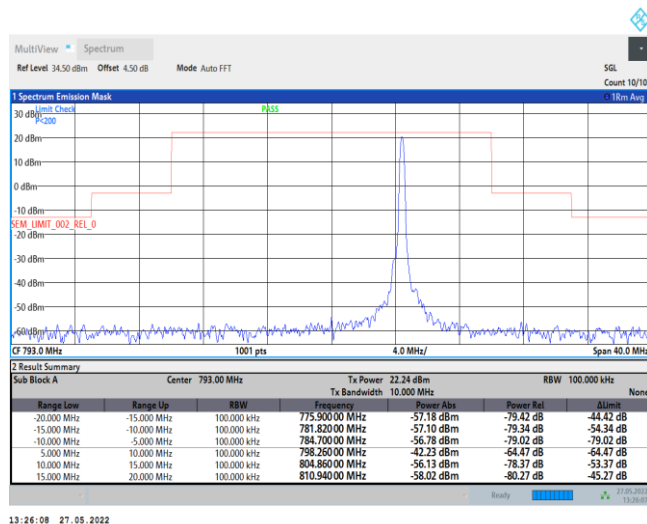
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Band14-10MHz-QPSK-23330-1RB#0



13:25:56 27.05.2022

Band14-10MHz-QPSK-23330-1RB#49



13:26:08 27.05.2022



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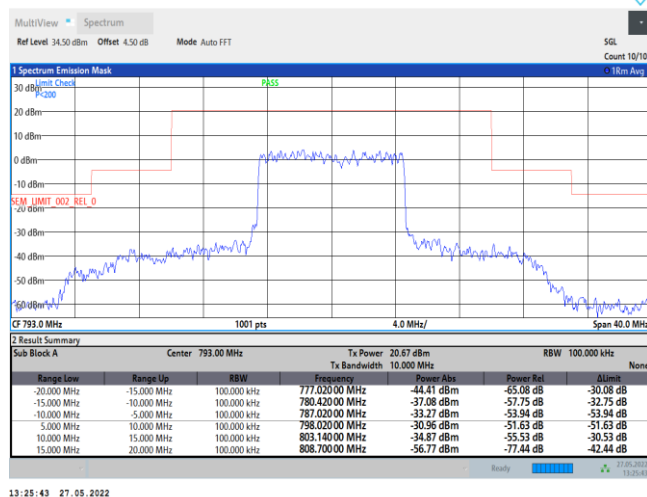
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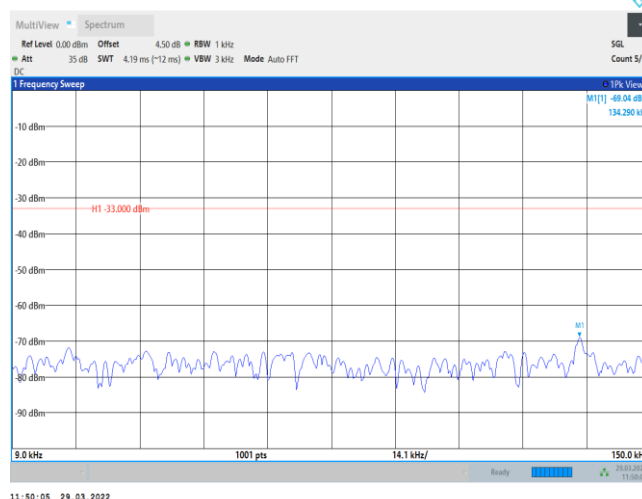
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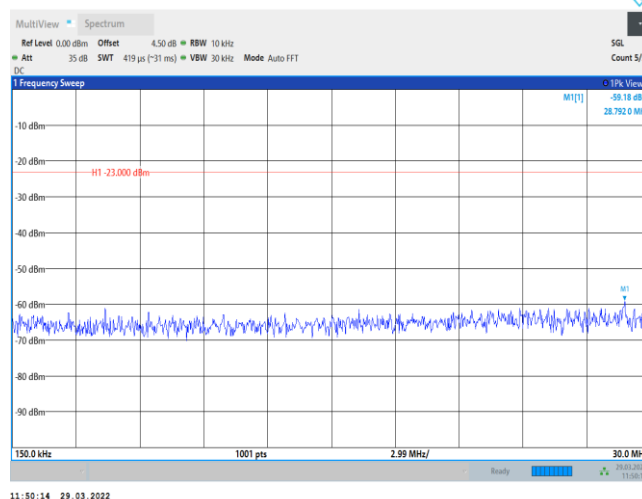
Conducted Spurious Emission

Test Graphs

Band14-10MHz-QPSK-23330-1RB#0-Range1:0.009~0.15MHz



Band14-10MHz-QPSK-23330-1RB#0-Range2:0.15~30MHz



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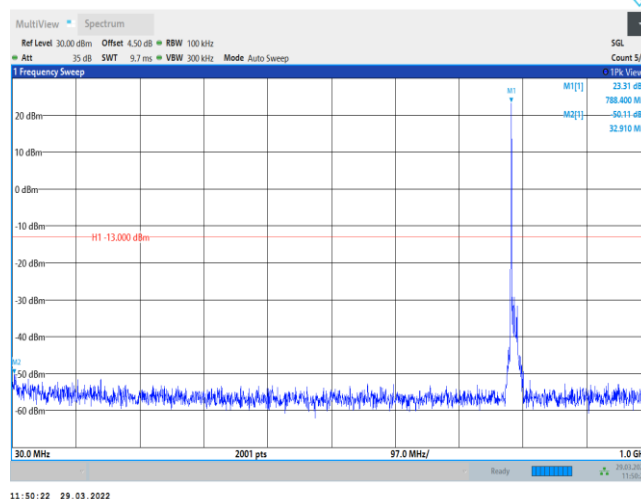
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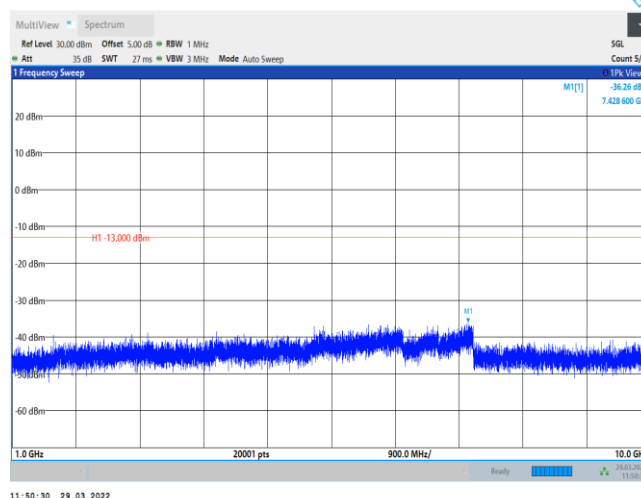
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Band14-10MHz-QPSK-23330-1RB#0-Range3:30~1000MHz



Band14-10MHz-QPSK-23330-1RB#0-Range4:1000~10000MHz



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Page: 23 of 27

Field Strength of Spurious Radiation**Test Band = _Band14_10M TM1****Test Channel = Mid**

Final Data List									
NO	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.142	61.04	-118.17	-57.1	-40.0	17.13	165	144	Horizontal
2	2365.714	73.78	-115.30	-41.5	-13.0	28.52	165	117	Horizontal
3	3154.360	50.31	-112.15	-61.8	-13.0	48.84	148	257	Horizontal
4	3942.950	49.65	-110.81	-61.1	-13.0	48.16	196	0	Horizontal
5	4731.540	49.28	-108.9	-59.6	-13.0	46.62	183	347	Horizontal
6	5520.130	48.56	-107.4	-58.9	-13.0	45.93	204	53	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1577.1429	62.93	-118.17	-55.24	-40.00	15.24	233	38	Vertical
2	2365.7143	81.78	-115.30	-33.52	-13.00	20.52	254	100	Vertical
3	3154.3600	48.82	-112.15	-63.33	-13.00	50.33	162	202	Vertical
4	3942.9500	50.78	-110.81	-60.03	-13.00	47.03	235	100	Vertical
5	4731.5400	49.91	-108.90	-58.99	-13.00	45.99	188	190	Vertical
6	5520.1300	48.52	-107.49	-58.97	-13.00	45.97	170	347	Vertical



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Report No.: SEWM2203000022RG03

Rev.: 01

Page: 24 of 27

Test Band = _Band14_5M TM1

Test Channel = Low

Final Data List									
NO	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.571	58.97	-118.17	-59.2	-40.0	19.20	123	158	Horizontal
2	2365.020	74.58	-115.30	-40.7	-13.0	27.72	199	55	Horizontal
3	3153.360	50.39	-112.16	-61.7	-13.0	48.77	184	20	Horizontal
4	3941.700	49.74	-110.81	-61.0	-13.0	48.07	175	59	Horizontal
5	4730.040	48.90	-108.9	-60.0	-13.0	47.00	148	25	Horizontal
6	5518.380	47.39	-107.4	-60.1	-13.0	47.10	128	111	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1576.5714	62.67	-118.17	-55.50	-40.00	15.50	215	48	Vertical
2	2365.0200	81.67	-115.30	-33.63	-13.00	20.63	184	86	Vertical
3	3153.3600	50.81	-112.16	-61.35	-13.00	48.35	175	25	Vertical
4	3941.7000	50.51	-110.81	-60.30	-13.00	47.30	233	25	Vertical
5	4730.0400	49.19	-108.90	-59.71	-13.00	46.71	203	62	Vertical
6	5518.3800	48.41	-107.49	-59.08	-13.00	46.08	196	151	Vertical



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Report No.: SEWM2203000022RG03

Rev.: 01

Page: 25 of 27

Test Band = _Band14_ 5M TM1

Test Channel = Mid

Final Data List									
NO	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.714	59.87	-118.17	-58.3	-40.0	18.30	187	157	Horizontal
2	2372.520	76.09	-115.30	-39.2	-13.0	26.21	184	42	Horizontal
3	3163.360	50.53	-112.10	-61.5	-13.0	48.57	195	194	Horizontal
4	3954.200	50.88	-110.78	-59.9	-13.0	46.90	172	29	Horizontal
5	4745.040	49.76	-108.8	-59.0	-13.0	46.08	255	54	Horizontal
6	5535.880	48.41	-107.5	-59.0	-13.0	46.09	190	320	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1581.7143	62.11	-118.17	-56.06	-40.00	16.06	265	360	Vertical
2	2372.5200	80.65	-115.30	-34.65	-13.00	21.65	175	62	Vertical
3	3163.3600	50.22	-112.10	-61.88	-13.00	48.88	194	25	Vertical
4	3954.2000	49.71	-110.78	-61.07	-13.00	48.07	222	50	Vertical
5	4745.0400	48.81	-108.84	-60.03	-13.00	47.03	236	161	Vertical
6	5535.8800	48.60	-107.50	-58.90	-13.00	45.90	258	349	Vertical



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Report No.: SEWM2203000022RG03

Rev.: 01

Page: 26 of 27

Test Band = _Band14_5M TM1

Test Channel = High

Final Data List									
NO	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.285	58.91	-118.18	-59.2	-40.0	19.27	222	133	Horizontal
2	2380	72.93	-115.29	-42.3	-13.0	29.36	169	56	Horizontal
3	3173.360	50.64	-112.03	-61.3	-13.0	48.39	184	12	Horizontal
4	3966.700	50.88	-110.75	-59.8	-13.0	46.87	172	1	Horizontal
5	4760.040	48.44	-108.7	-60.3	-13.0	47.32	226	31	Horizontal
6	5553.380	47.85	-107.5	-59.6	-13.0	46.65	231	158	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	1586.8571	61.56	-118.18	-56.62	-40.00	16.62	248	139	Vertical
2	2380	77.40	-115.29	-37.89	-13.00	24.89	254	63	Vertical
3	3173.3600	51.49	-112.03	-60.54	-13.00	47.54	162	125	Vertical
4	3966.7000	49.73	-110.75	-61.02	-13.00	48.02	183	280	Vertical
5	4760.0400	48.66	-108.76	-60.10	-13.00	47.10	201	265	Vertical
6	5553.3800	47.70	-107.50	-59.80	-13.00	46.80	173	38	Vertical



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Report No.: SEWM2203000022RG03

Rev.: 01

Page: 27 of 27

Frequency Stability

Test Result

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	VL	NT	-9.30	-0.011728	PASS
Band14	10MHz	QPSK	23330	50RB#0	VN	NT	-7.60	-0.009584	PASS
Band14	10MHz	QPSK	23330	50RB#0	VH	NT	-7.10	-0.008953	PASS

Band	Bandwidth	Modulation	Channel	RB Configure	Voltage [Vdc]	Temperature (°C)	Deviation (Hz)	Deviation (ppm)	Verdict
Band14	10MHz	QPSK	23330	50RB#0	NV	-30	-4.00	-0.005044	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-20	-8.00	-0.010088	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	-10	-9.50	-0.011980	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	0	-10.70	-0.013493	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	10	-4.00	-0.005044	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	20	-9.70	-0.012232	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	30	-5.30	-0.006683	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	40	-9.70	-0.012232	PASS
Band14	10MHz	QPSK	23330	50RB#0	NV	50	-12.50	-0.015763	PASS

The End



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