

Report No.: SEWA2205000015RG02

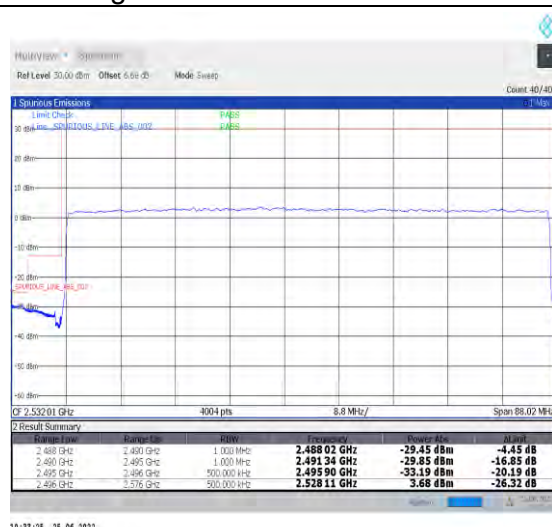
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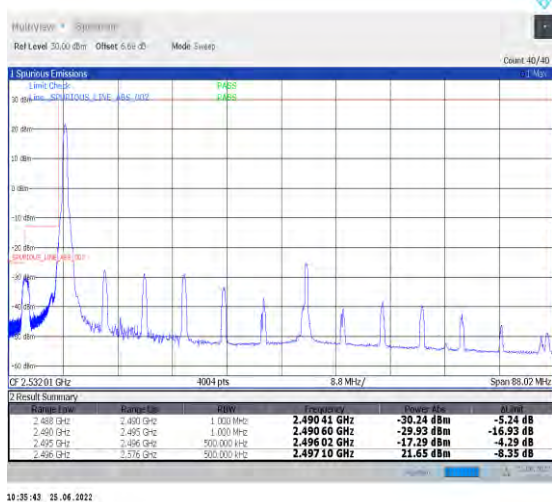
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1-N41-PC2-30-80-L-1-DFT-PI2BPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



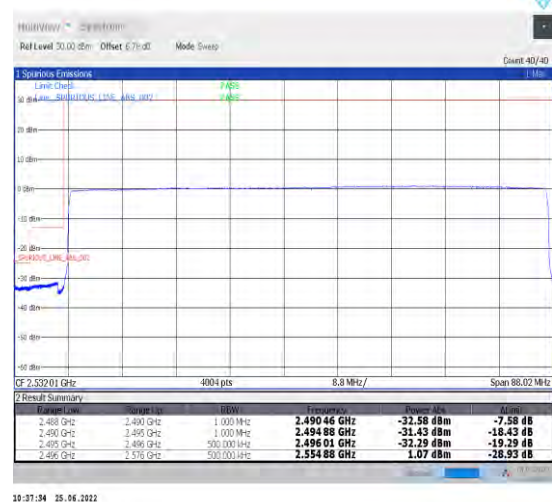
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1-N41-PC2-30-80-L-3-DFT-PI2BPSK-Outer_Full-216@0-Ant1-PASS-see graph



10:35:43 25.06.2022

1-N41-PC2-30-80-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



10:37:34 25.06.2022

1-N41-PC2-30-80-L-6-CP-QPSK-Outer_Full-217@0-Ant1-FAIL-see graph



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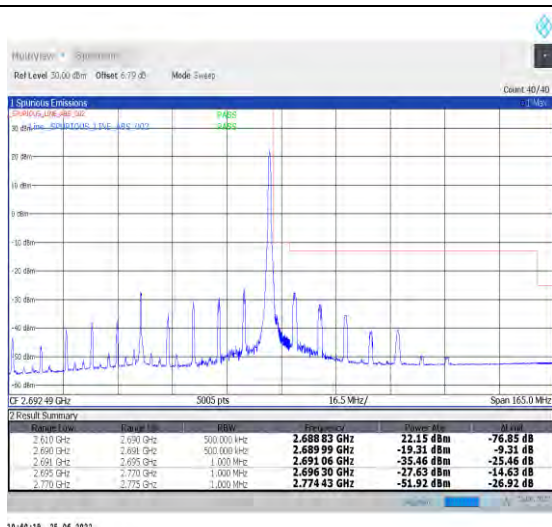
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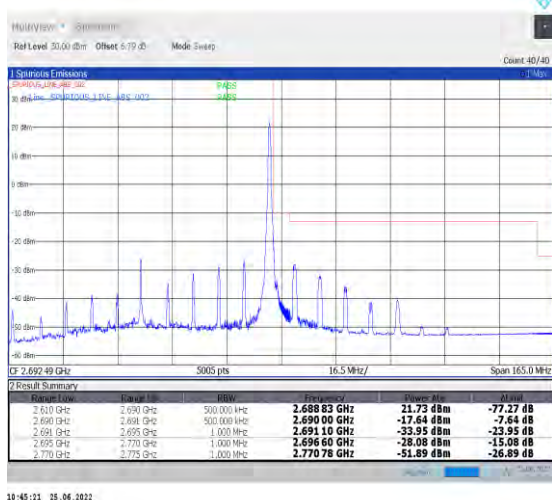
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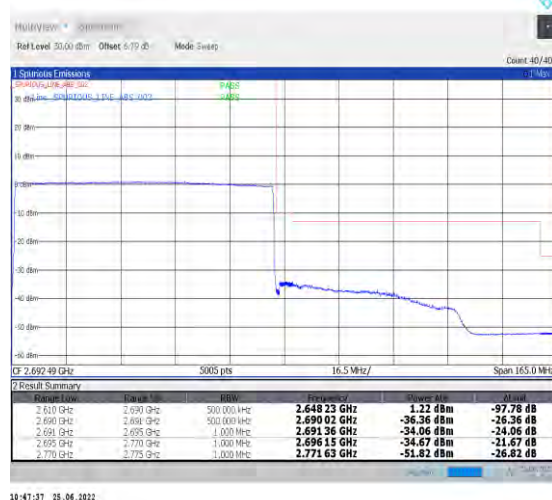
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t-1@216-Ant1-PASS-see graph

10:42:36 25.06.2022

1-N41-PC2-30-80-H-3-DFT-PI2BPSK-Outer_Full-2
16@0-Ant1-PASS-see graph

10:45:22 25.06.2022

1-N41-PC2-30-80-H-5-CP-QPSK-Edge_1RB_Right-1
@216-Ant1-PASS-see graph

10:47:37 25.06.2022

1-N41-PC2-30-80-H-6-CP-QPSK-Outer_Full-217
@0-Ant1-PASS-see graph

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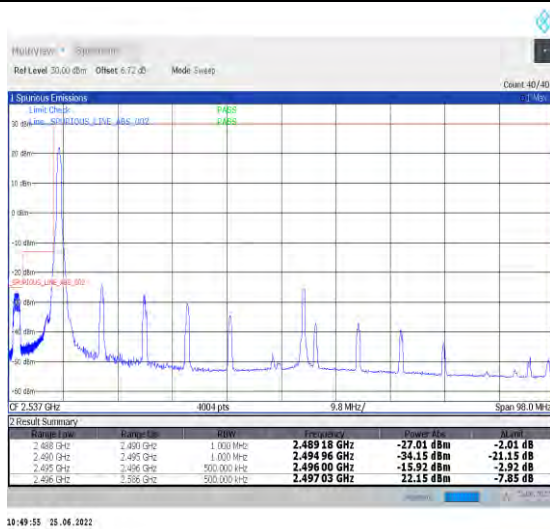
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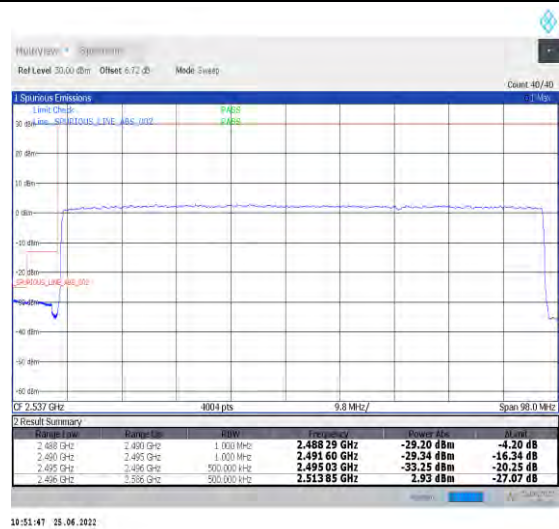
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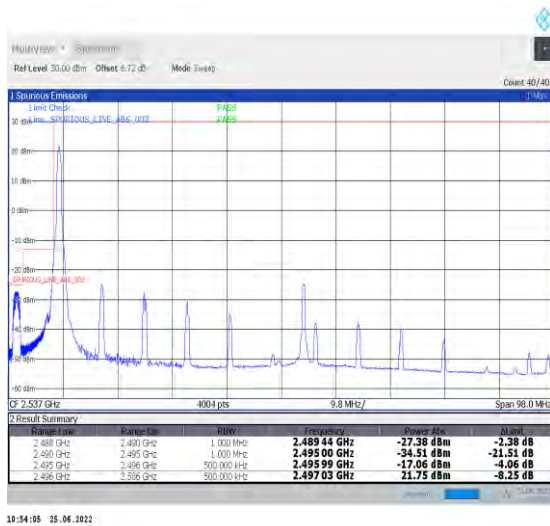
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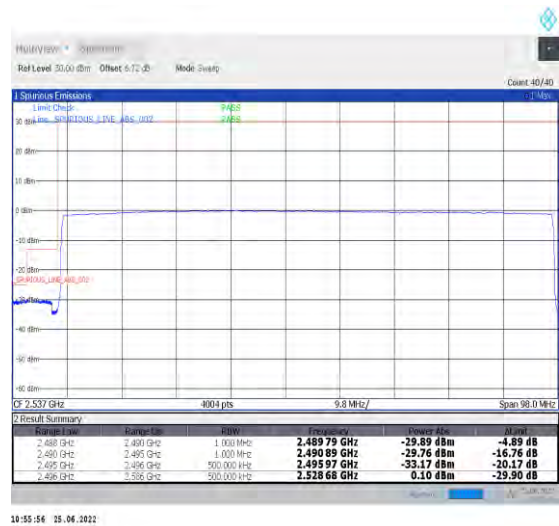
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1-N41-PC2-30-90-L-3-DFT-PI2BPSK-Outer_Full-240@0-Ant1-PASS-see graph



10:54:05 25.06.2022

1-N41-PC2-30-90-L-4-CP-QPSK-Edge_1RB_Left-1@0-Ant1-PASS-see graph



10:55:56 25.06.2022

1-N41-PC2-30-90-L-6-CP-QPSK-Outer_Full-245@0-Ant1-PASS-see graph



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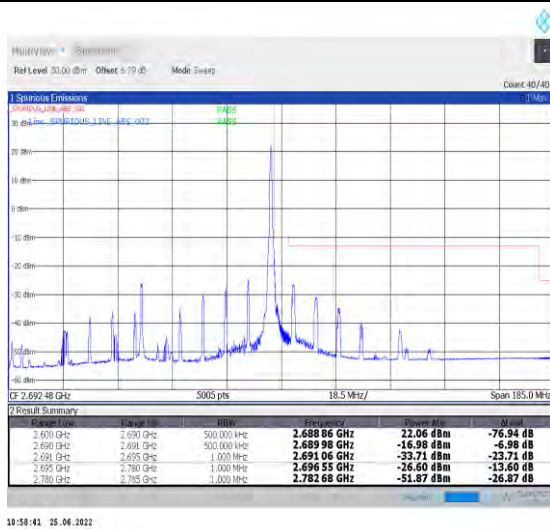
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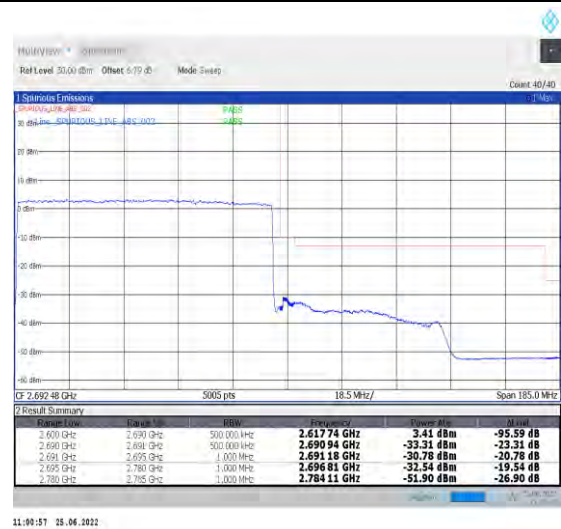
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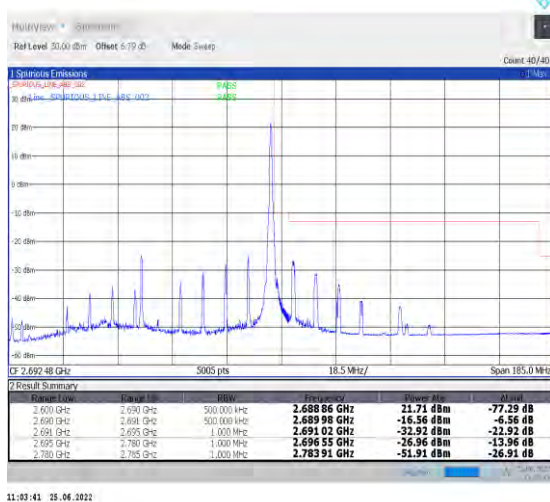
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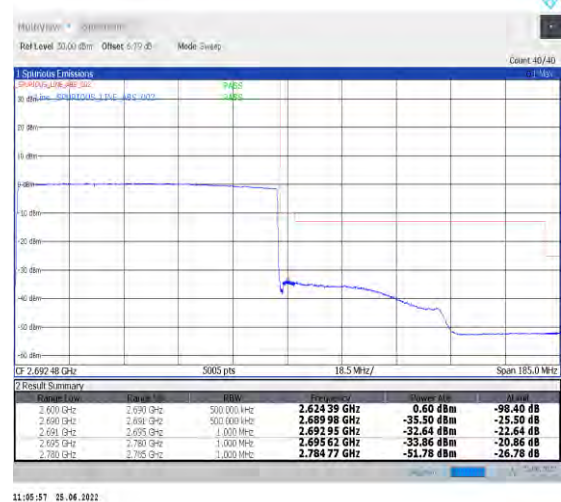
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1-N41-PC2-30-90-H-3-DFT-PI2BPSK-Outer_Full-240@0-Ant1-PASS-see graph



1-N41-PC2-30-90-H-5-CP-QPSK-Edge_1RB_Right-1@244-Ant1-PASS-see graph



1-N41-PC2-30-90-H-6-CP-QPSK-Outer_Full-245@0-Ant1-PASS-see graph



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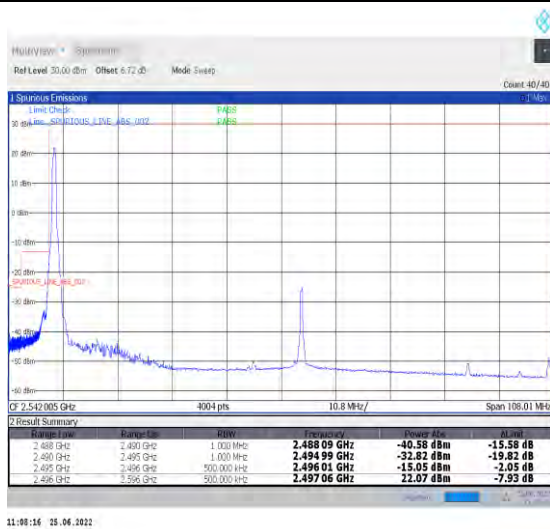
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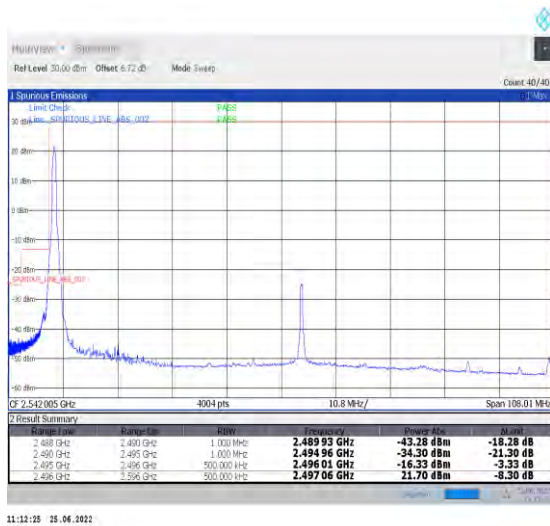
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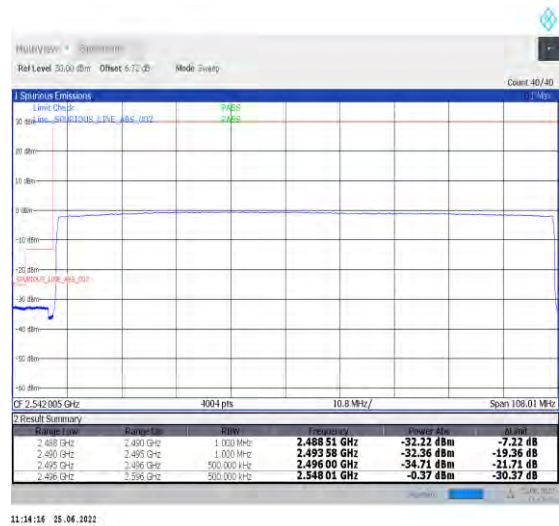
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270@0-Ant1-PASS-see graph



11:12:25 25.06.2022

1-N41-PC2-30-100-L-4-CP-QPSK-Edge_1RB_Left-1@
0-Ant1-PASS-see graph



11:14:16 25.06.2022

1-N41-PC2-30-100-L-6-CP-QPSK-Outer_Full-273
@0-Ant1-PASS-see graph



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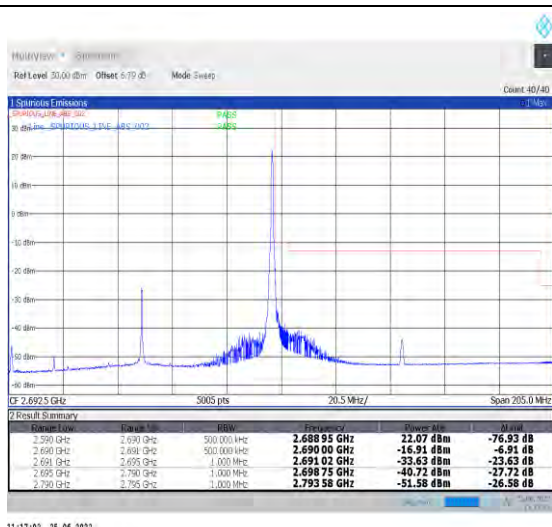
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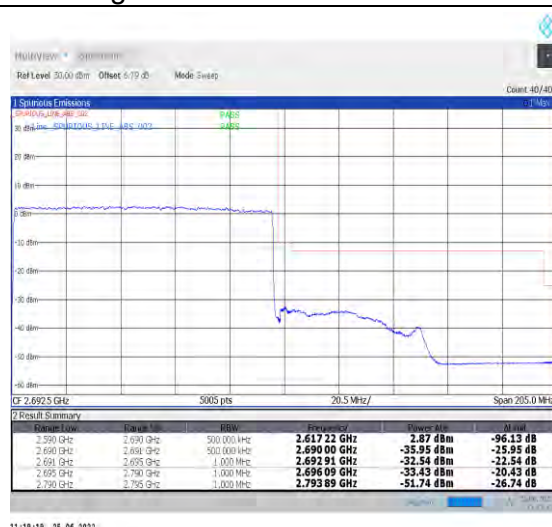
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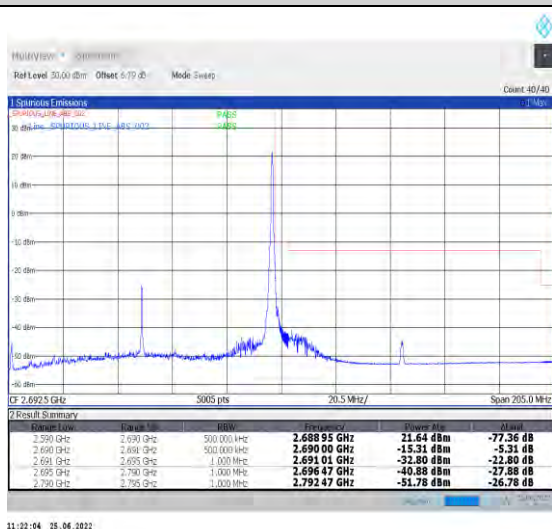
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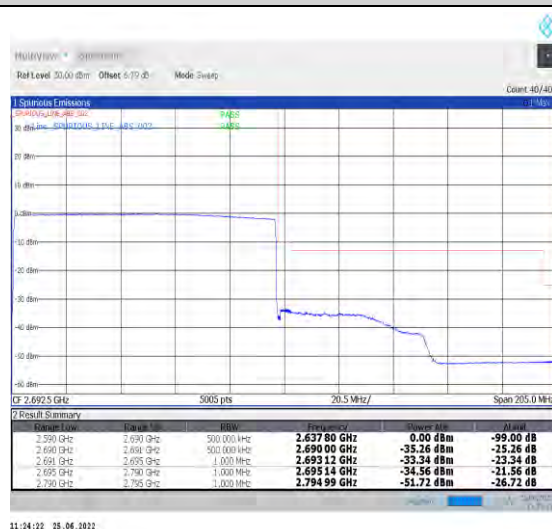
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1-N41-PC2-30-100-H-3-DFT-PI2BPSK-Outer_Full-
270@0-Ant1-PASS-see graph



11:22:04 25.06.2022

1-N41-PC2-30-100-H-5-CP-QPSK-Edge_1RB_Right-1
@272-Ant1-PASS-see graph



11:24:22 25.06.2022

1-N41-PC2-30-100-H-6-CP-QPSK-Outer_Full-273
@0-Ant1-PASS-see graph



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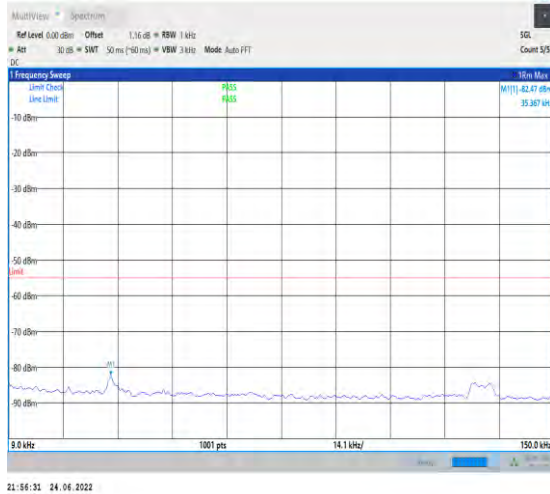
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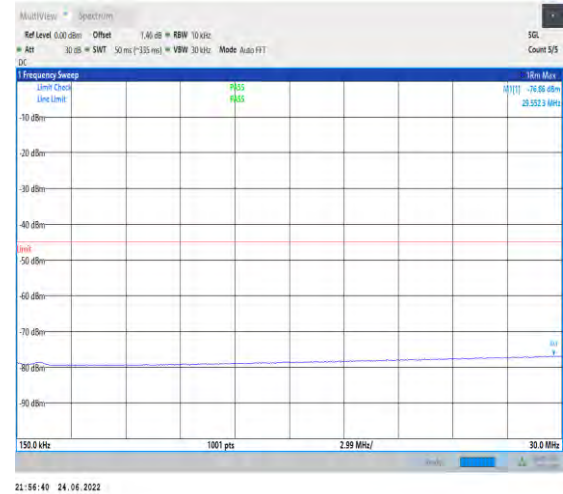
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Conducted Spurious Emission for SA

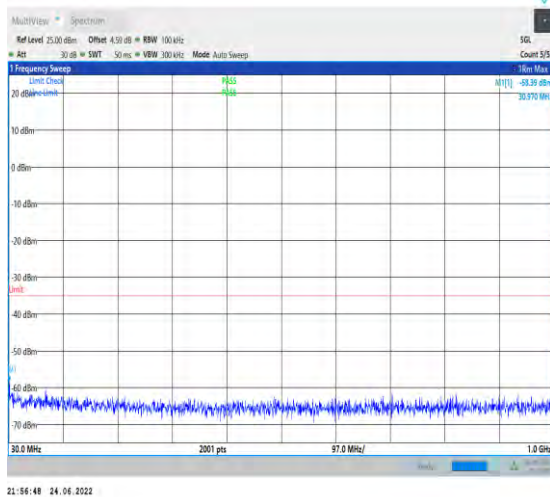
Test Graphs



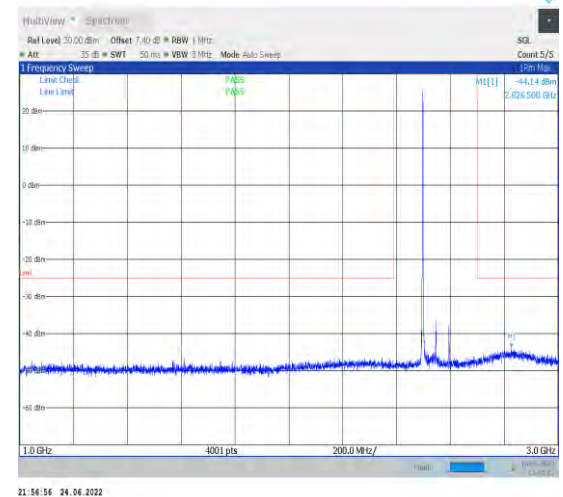
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eft-1@1-0.15-30-Ant1--76.86--45-PASS



1-N41-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-30-1000-Ant1--58.39--35-PASS



1-N41-PC2-30-100-L-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-1000-3000-Ant1--44.80--25-PASS



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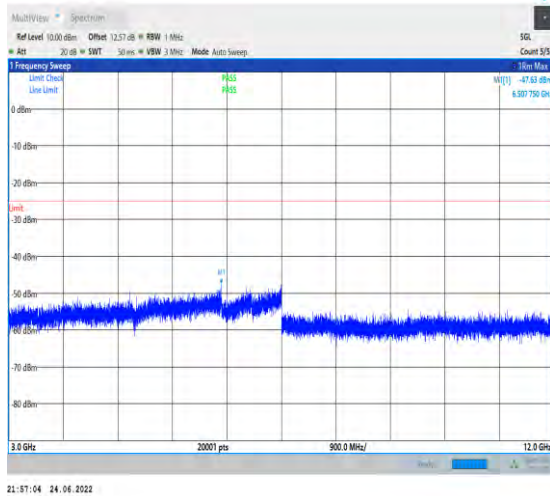
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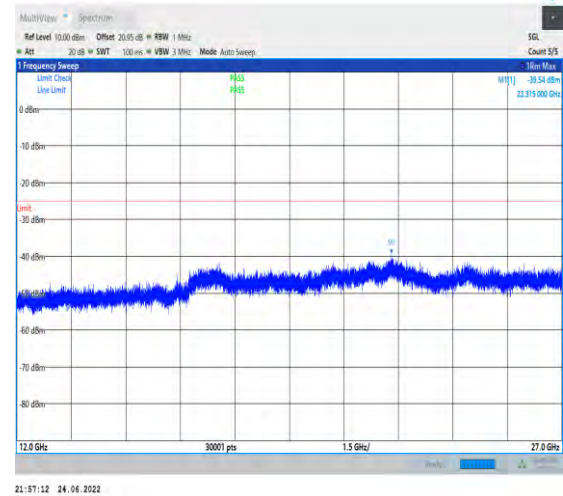
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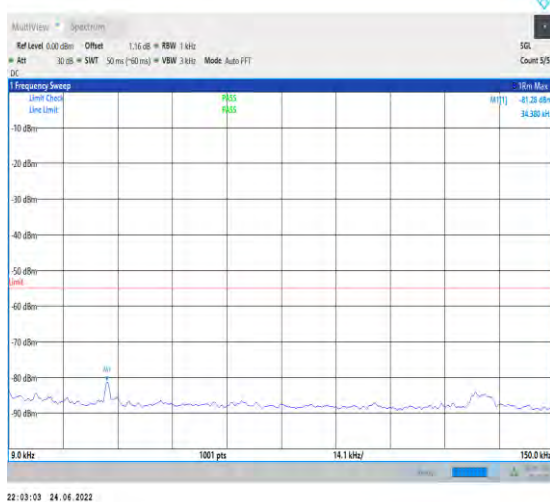
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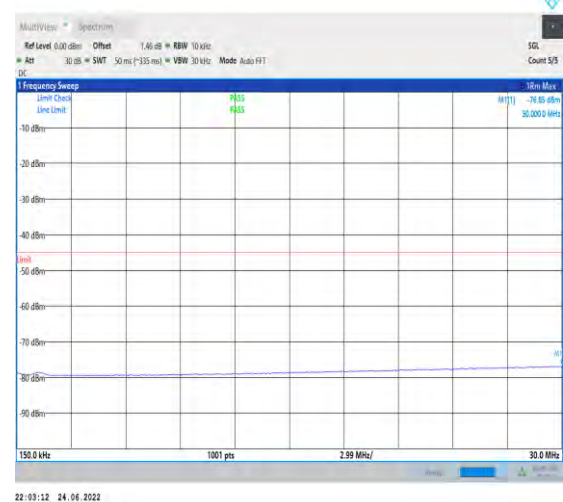
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eft-1@1-12000-27000-Ant1--39.54--25-PASS



1-N41-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_L
Left-1@1-0.009-0.15-Ant1--81.28--55-PASS



1-N41-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-0.15-30-Ant1--76.85--45-PASS



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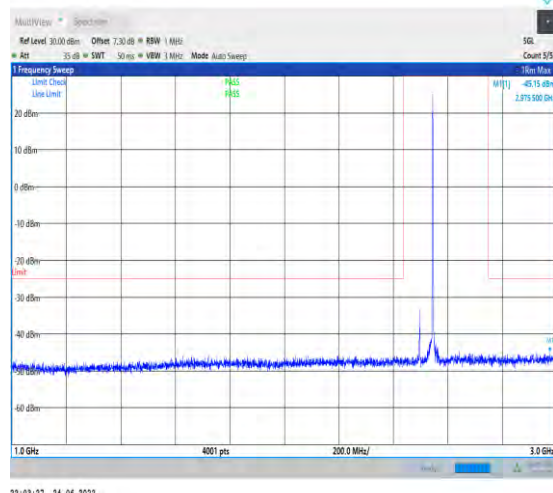
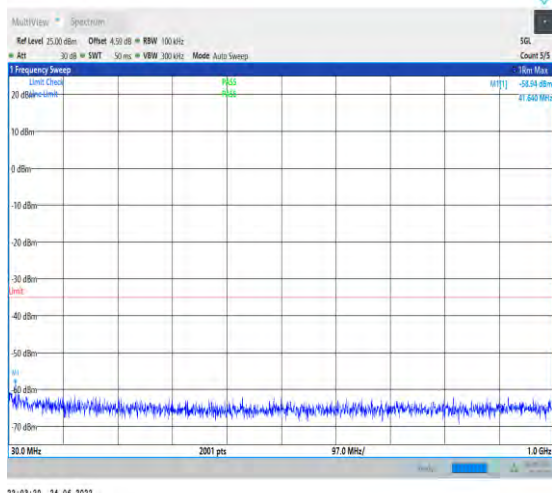
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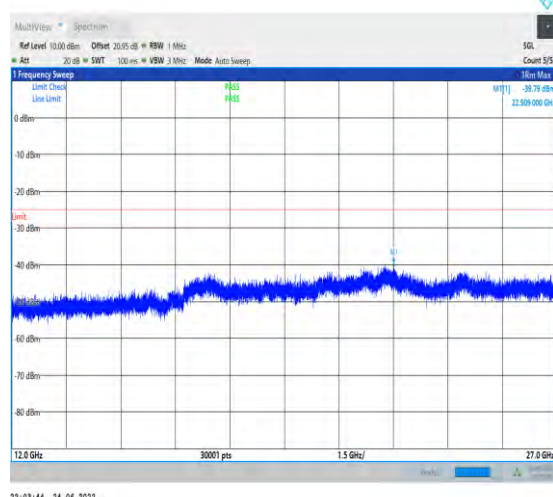
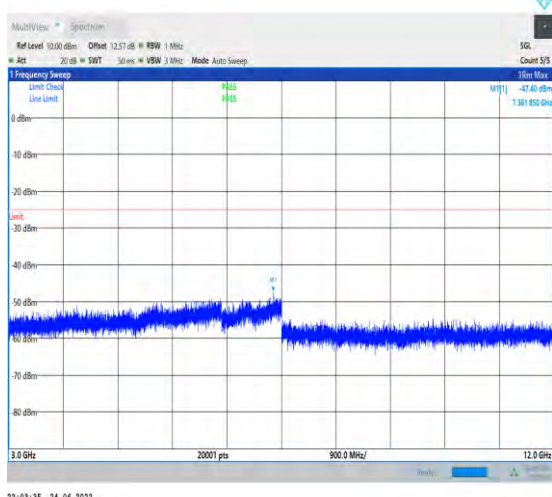
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1-N41-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_
Left-1@1-30-1000-Ant1--58.94--35-PASS

1-N41-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-1000-3000-Ant1--45.15--25-PASS



1-N41-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_
Left-1@1-3000-12000-Ant1--47.40--25-PASS

1-N41-PC2-30-100-M-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-12000-27000-Ant1--39.79--25-PASS



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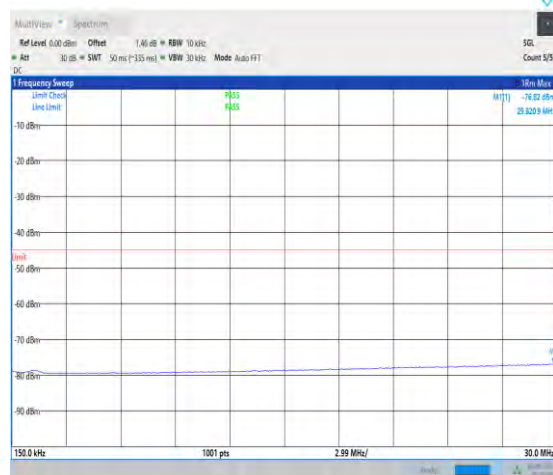
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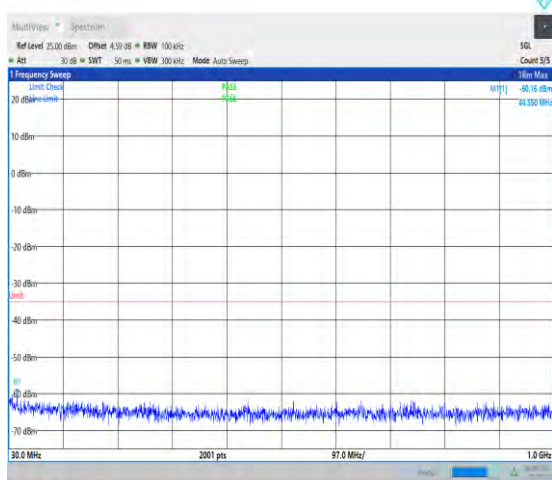
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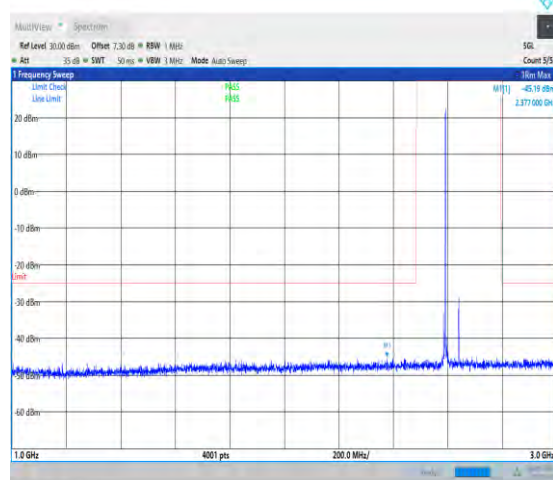
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eft-1@1-0.009-0.15-Ant1--81.79--55-PASS



1-N41-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-0.15-30-Ant1--76.82--45-PASS



1-N41-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-30-1000-Ant1--60.16--35-PASS



1-N41-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-1000-3000-Ant1--45.19--25-PASS



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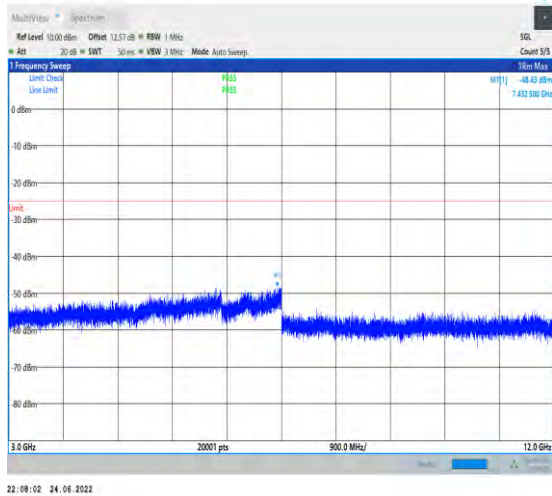
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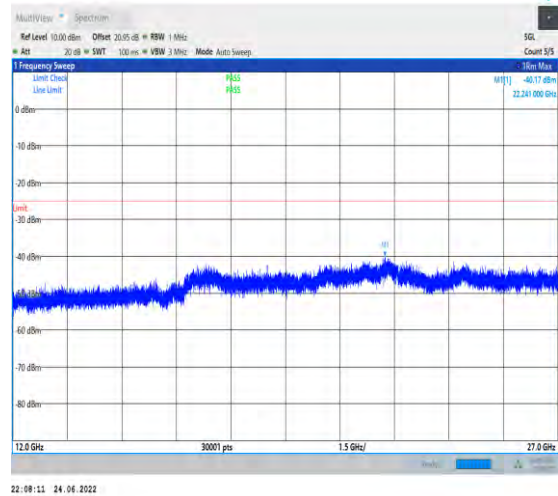
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1-N41-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-3000-12000-Ant1--48.43--25-PASS



1-N41-PC2-30-100-H-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-12000-27000-Ant1--40.17--25-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band41_ 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	5002.2000	48.56	-108.01	-59.45	-25.00	34.45	184	347	Horizontal
2	7503.3000	47.37	-101.95	-54.58	-25.00	29.58	175	125	Horizontal
3	10004.4000	43.20	-96.00	-52.80	-25.00	27.80	136	89	Horizontal
4	12505.5000	41.68	-93.07	-51.39	-25.00	26.39	199	23	Horizontal
5	15006.6000	39.49	-90.70	-51.21	-25.00	26.21	136	44	Horizontal
6	17507.7000	41.00	-90.99	-49.99	-25.00	24.99	150	30	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.2000	49.76	-108.01	-58.25	-25.00	33.25	185	134	Vertical
2	7503.3000	47.87	-101.95	-54.08	-25.00	29.08	236	315	Vertical
3	10004.4000	44.33	-96.00	-51.67	-25.00	26.67	191	209	Vertical
4	12505.5000	40.95	-93.07	-52.12	-25.00	27.12	222	224	Vertical
5	15006.6000	40.32	-90.70	-50.38	-25.00	25.38	145	298	Vertical
6	17507.7000	41.54	-90.99	-49.45	-25.00	24.45	188	43	Vertical



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Test Band = SA Band41_ 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	5096.1600	49.37	-107.71	-58.34	-25.00	33.34	136	6	Horizontal
2	7644.2400	47.71	-101.80	-54.09	-25.00	29.09	261	329	Horizontal
3	10192.3200	43.13	-95.93	-52.80	-25.00	27.80	145	299	Horizontal
4	12740.4000	41.70	-92.47	-50.77	-25.00	25.77	191	56	Horizontal
5	15288.4800	40.07	-90.78	-50.71	-25.00	25.71	142	356	Horizontal
6	17836.5600	40.61	-88.76	-48.15	-25.00	23.15	180	315	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5096.1600	49.70	-107.71	-58.01	-25.00	33.01	284	356	Vertical
2	7644.2400	47.46	-101.80	-54.34	-25.00	29.34	169	316	Vertical
3	10192.3200	42.77	-95.93	-53.16	-25.00	28.16	194	240	Vertical
4	12740.4000	40.69	-92.47	-51.78	-25.00	26.78	172	150	Vertical
5	15288.4800	39.49	-90.78	-51.29	-25.00	26.29	230	257	Vertical
6	17836.5600	41.06	-88.76	-47.70	-25.00	22.70	236	356	Vertical



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Test Band = SA Band41_ 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	5190.1800	50.27	-107.56	-57.29	-25.00	32.29	125	178	Horizontal
2	7785.2700	48.85	-100.93	-52.08	-25.00	27.08	145	193	Horizontal
3	10380.3600	43.60	-95.43	-51.83	-25.00	26.83	196	0	Horizontal
4	12975.4500	40.66	-92.73	-52.07	-25.00	27.07	188	104	Horizontal
5	15570.5400	39.84	-91.86	-52.02	-25.00	27.02	172	209	Horizontal
6	17694.75	51.78	-89.11	-37.33	-25.00	12.33	230	254	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5190.1800	49.05	-107.56	-58.51	-25.00	33.51	255	210	Vertical
2	7785.2700	47.54	-100.93	-53.39	-25.00	28.39	164	106	Vertical
3	10380.3600	44.61	-95.43	-50.82	-25.00	25.82	195	195	Vertical
4	12975.4500	41.07	-92.73	-51.66	-25.00	26.66	184	30	Vertical
5	15570.5400	40.18	-91.86	-51.68	-25.00	26.68	172	90	Vertical
6	16956	44.69	-90.51	-45.82	-25.00	20.82	213	61	Vertical

Remark:

The field strength is calculated by adding the Antenna Factor, Cable Factor & Preamplifier gain. The basic equation with a sample calculation is as follows:

Level = Reading Level(dBμV) + Factor(dB):

Factor = AF(dB/m) + Cable Factor(dB) - Preamplifier gain(dB)

AF = Antenna Factor(dB/m)

Margin = Limit(dBm) – Level(dBm)



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Frequency Stability for SA

Test Result

Frequency Error VS. Voltage

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-3.900000	-0.001504	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-4.600000	-0.001774	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	-1.100000	-0.000424	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VH	NT	1.700000	0.000656	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VN	NT	-5.000000	-0.001928	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VL	NT	-4.900000	-0.001890	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation (Hz)	Deviation (ppm)	Verdict
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-0.200000	-0.000077	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-6.400000	-0.002468	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-10	-5.700000	-0.002198	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	0	-6.200000	-0.002391	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	2.300000	0.000887	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-2.100000	-0.000810	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	-3.600000	-0.001388	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.900000	-0.001118	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-5.200000	-0.002005	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-30	-1.700000	-0.000656	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-20	8.900000	0.003432	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-10	1.900000	0.000733	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	0	0.800000	0.000309	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	10	4.900000	0.001890	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	20	5.100000	0.001967	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	30	1.400000	0.000540	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	40	5.500000	0.002121	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	50	-1.400000	-0.000540	PASS

The End



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