

Conducted Spurious Emission for SA

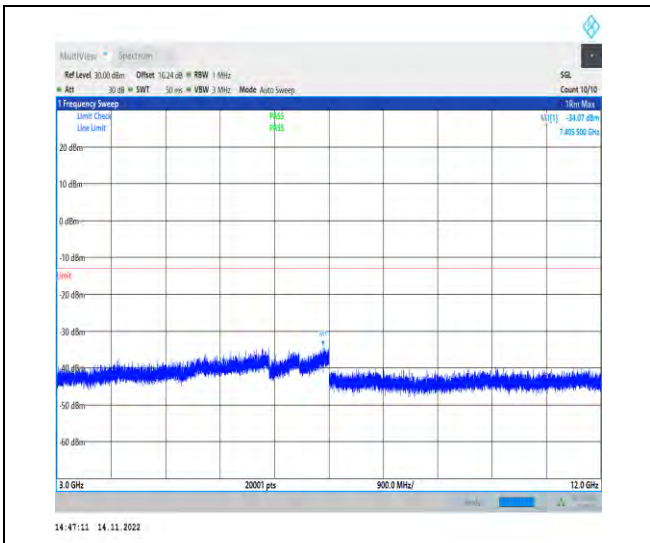
Test Graphs

<p>MultiView Spectrum Ref Level: 20.00 dBm Offset: 7.16 dB BW: 1 kHz # Az: 10 dB SWT: 50 ms VBW: 3 kHz Mode: Auto FFT Count: 10/10 DC 1 Frequency Sweep Limit Check: PASS Limit: M[1]: -42.84 dBm 38.914 kHz 30 dBm 40 dBm 50 dBm 60 dBm 70 dBm 80 dBm 90 dBm 100 dBm 110 dBm 9.0 MHz 1001 pts 14.1 kHz 14:46:44 14.11.2022</p>	<p>MultiView Spectrum Ref Level: 20.00 dBm Offset: 1.46 dB BW: 10 kHz # Az: 10 dB SWT: 50 ms VBW: 30 kHz Mode: Auto FFT Count: 10/10 DC 1 Frequency Sweep Limit Check: PASS Limit: M[1]: -47.41 dBm 150.0 kHz -70 dBm -80 dBm -90 dBm -100 dBm 150.0 MHz 1001 pts 2.99 MHz 30.0 MHz 14:46:52 14.11.2022</p>
<p>1-N25-PC3-15-40-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.06--62.94--43-PASS</p>	<p>1-N25-PC3-15-40-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-0.15--67.41--33-PASS</p>
<p>MultiView Spectrum Ref Level: 4.87 dBm Offset: 4.59 dB BW: 100 kHz # Az: 40 dB SWT: 50 ms VBW: 300 kHz Mode: Auto Sweep Count: 10/10 DC 1 Frequency Sweep Limit Check: PASS Limit: M[1]: -48.94 dBm 33.395 MHz 70 dBm 80 dBm 90 dBm 100 dBm 30.0 MHz 2001 pts 97.0 MHz 1.0 GHz 14:46:58 14.11.2022</p>	<p>MultiView Spectrum Ref Level: 25.00 dBm Offset: 7.30 dB BW: 1 MHz # Az: 40 dB SWT: 50 ms VBW: 1 MHz Mode: Auto Sweep Count: 10/10 DC 1 Frequency Sweep Limit Check: PASS Limit: M[1]: -39.60 dBm 2.969500 GHz 30 dBm 40 dBm 50 dBm 60 dBm 70 dBm 80 dBm 90 dBm 1.0 GHz 4001 pts 200.0 MHz 3.0 GHz 14:47:05 14.11.2022</p>
<p>1-N25-PC3-15-40-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-30-1000-Ant1-33.40--48.94--23-PASS</p>	<p>1-N25-PC3-15-40-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-1000-3000-Ant1-2969.50--39.60--13-PASS</p>

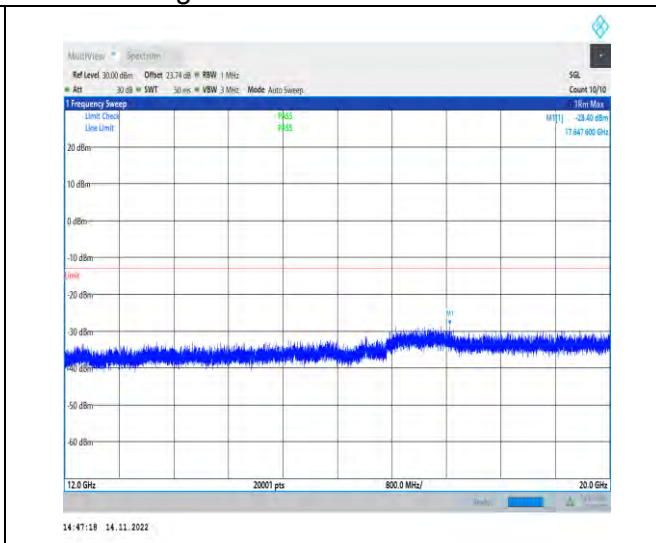


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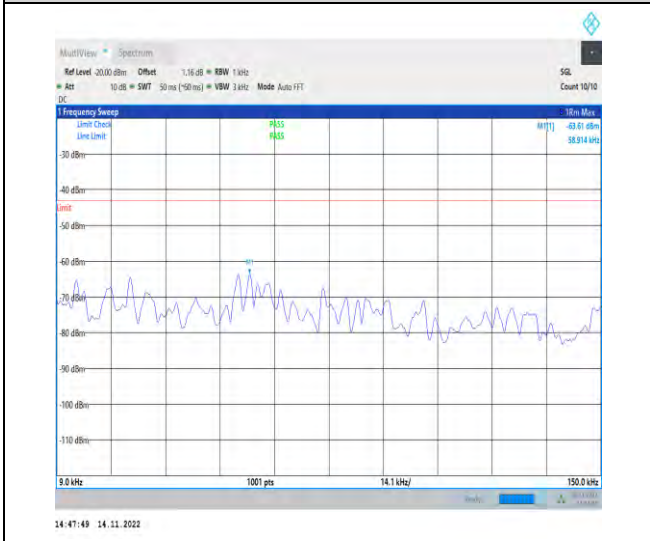
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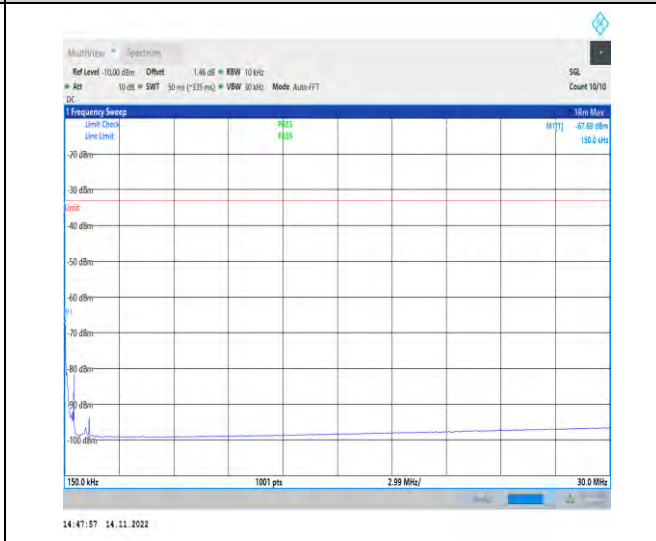
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1-N25-PC3-15-40-L-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-12000-20000-Ant1-17647.60--28.40--13-PASS



1-N25-PC3-15-40-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.009-0.15-Ant1-0.06--63.61--43-PASS

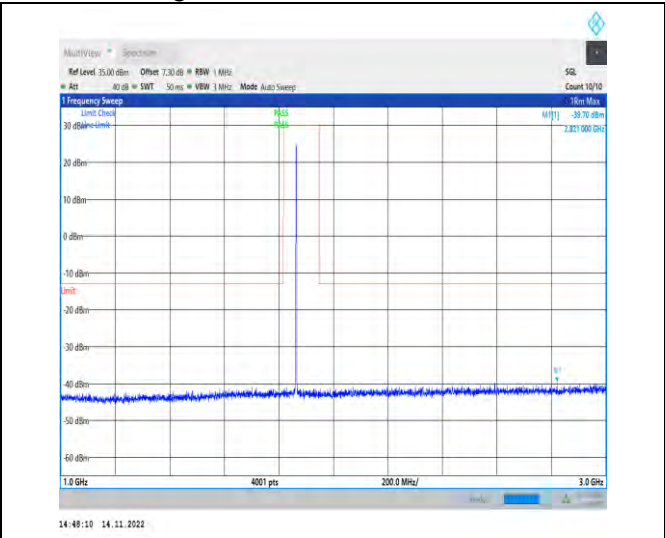
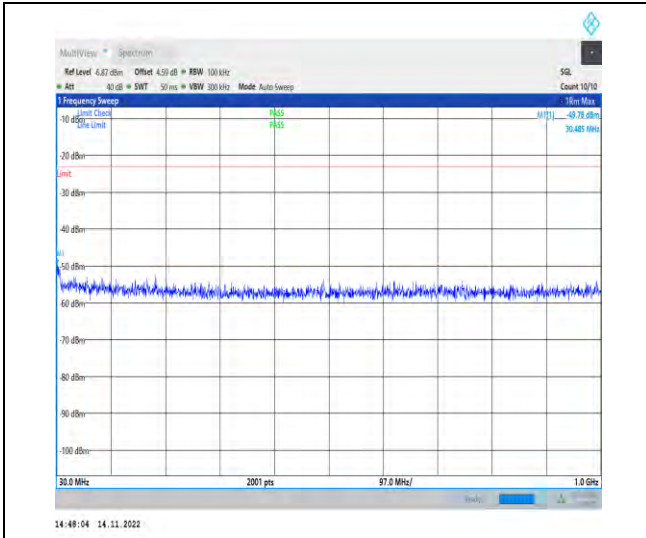


1-N25-PC3-15-40-M-1-DFT-PI2BPSK-Inner_1RB_Left-1@1-0.15-30-Ant1-0.15--67.69--33-PASS



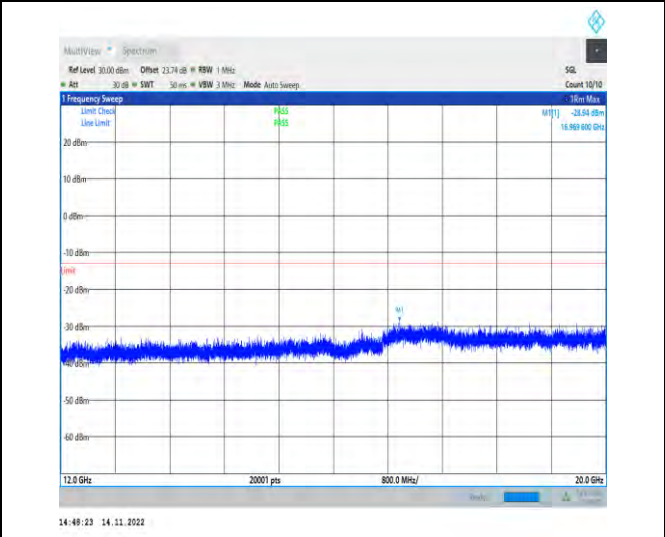
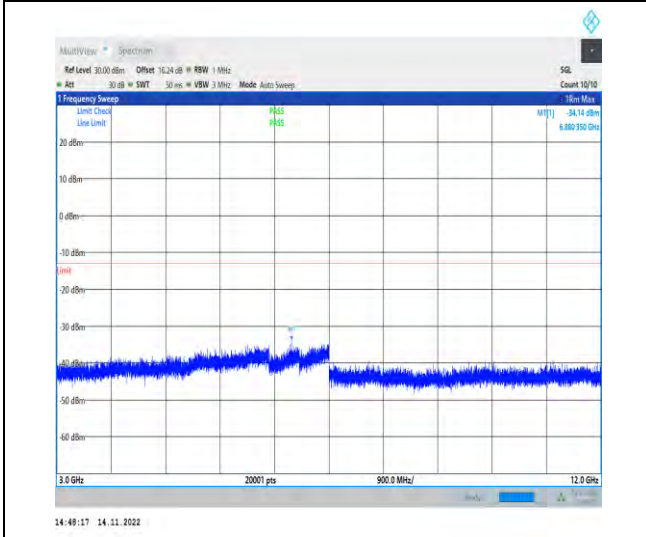
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1-N25-PC3-15-40-M-1-DFT-PI2BPSK-Inner_1RB_L eft-1@1-30-1000-Ant1-30.49--49.78--23-PASS

1-N25-PC3-15-40-M-1-DFT-PI2BPSK-Inner_1RB_L ef t-1@1-1000-3000-Ant1-2821.00--39.70--13-PASS



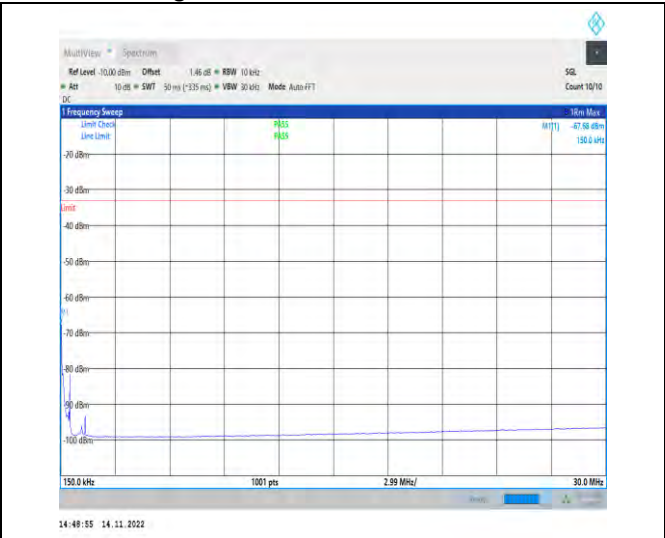
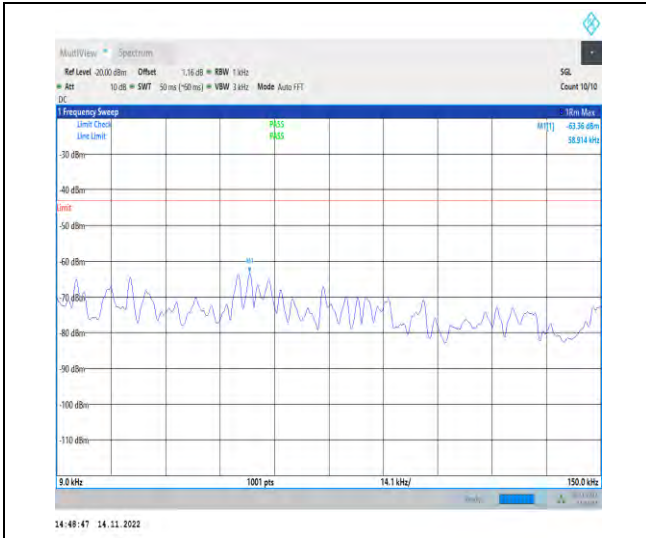
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1-N25-PC3-15-40-M-1-DFT-PI2BPSK-Inner_1RB_L ef t-1@1-12000-20000-Ant1-16969.60--28.94--13-PASS



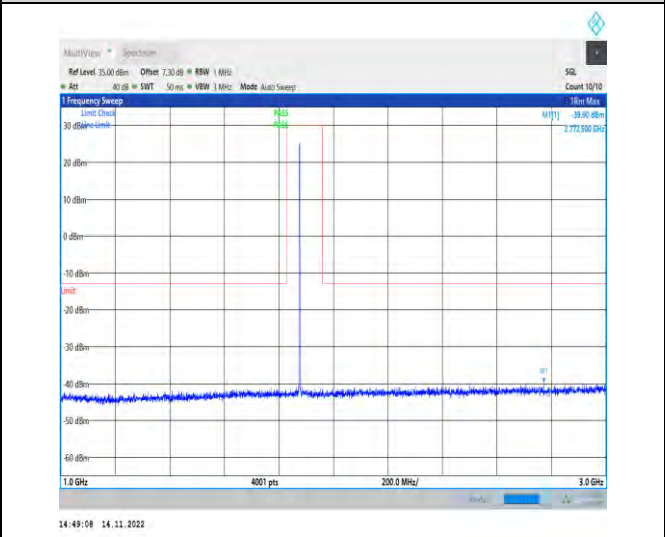
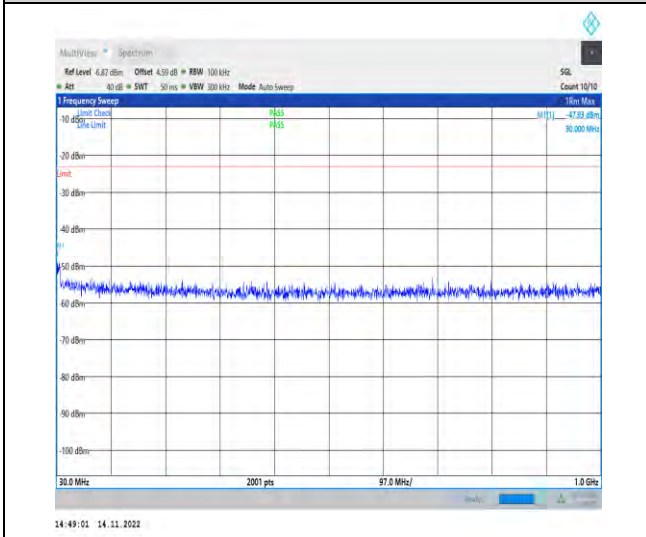
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1-N25-PC3-15-40-H-1-DFT-PI2BPSK-Inner_1RB_L eft-1@1-0.009-0.15-Ant1-0.06--63.36--43-PASS

1-N25-PC3-15-40-H-1-DFT-PI2BPSK-Inner_1RB_Lef t-1@1-0.15-30-Ant1-0.15--67.68--33-PASS



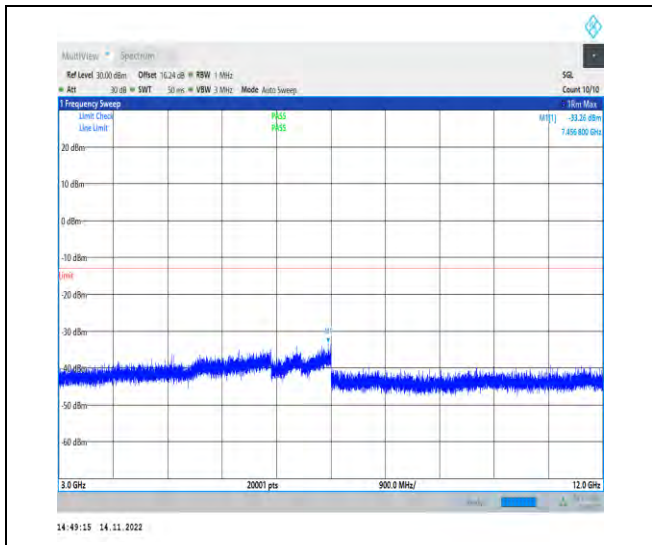
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1-N25-PC3-15-40-H-1-DFT-PI2BPSK-Inner_1RB_Lef t-1@1-1000-3000-Ant1-2772.50--39.90--13-PASS

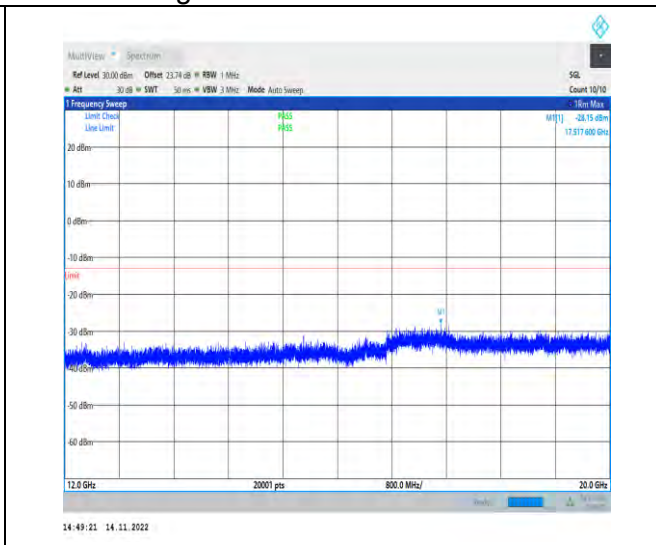


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1-N25-PC3-15-40-H-1-DFT-PI2BPSK-Inner_1RB_L
eft-1@1-3000-12000-Ant1-7456.80--33.26--13-PAS
S



1-N25-PC3-15-40-H-1-DFT-PI2BPSK-Inner_1RB_L ef
t-1@1-12000-20000-Ant1-17517.60--28.15--13-PASS



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Field Strength of Spurious Radiation

Test Band = SA Band 25_ TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3701.25	65.42	-45.70	29.88	-45.65	-13.00	32.65	296	329	Horizontal
2	5552.25	54.85	-43.87	32.77	-51.52	-13.00	38.52	265	146	Horizontal
3	7402.5	50.36	-41.97	36.44	-50.43	-13.00	37.43	284	215	Horizontal
4	9260.45	33.52	-38.39	38.57	-61.56	-13.00	48.56	142	32	Horizontal
5	11112.54	31.35	-35.33	39.49	-59.75	-13.00	46.75	266	296	Horizontal
6	12964.63	33.66	-34.90	39.57	-56.93	-13.00	43.93	214	296	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3701.25	67.49	-45.70	29.88	-43.58	-13.00	30.58	196	216	Vertical
2	5552.25	64.38	-43.87	32.77	-41.99	-13.00	28.99	265	0	Vertical
3	7402.5	55.37	-41.97	36.44	-45.42	-13.00	32.42	284	0	Vertical
4	9252.75	45.17	-38.39	38.57	-49.91	-13.00	36.91	142	182	Vertical
5	11112.54	31.14	-35.33	39.49	-59.96	-13.00	46.96	255	297	Vertical
6	12964.63	32.72	-34.90	39.57	-57.87	-13.00	44.87	286	297	Vertical



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Test Band = SA Band 25_ TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3726	61.43	-45.63	29.94	-49.52	-13.00	36.52	296	327	Horizontal
2	5589.75	53.93	-43.86	32.89	-52.31	-13.00	39.31	265	148	Horizontal
3	7452.75	47.13	-41.78	36.47	-53.44	-13.00	40.44	241	164	Horizontal
4	9315.75	39.87	-38.35	38.57	-55.18	-13.00	42.18	142	179	Horizontal
5	11187.54	31.52	-35.01	39.41	-59.34	-13.00	46.34	255	357	Horizontal
6	13052.13	32.27	-34.68	39.63	-58.04	-13.00	45.04	263	98	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3726	66.85	-45.63	29.94	-44.10	-13.00	31.10	196	229	Vertical
2	5589.75	67.19	-43.86	32.89	-39.05	-13.00	26.05	265	0	Vertical
3	7452.75	58.13	-41.78	36.47	-42.44	-13.00	29.44	241	0	Vertical
4	9315.75	49.92	-38.35	38.57	-45.13	-13.00	32.13	142	180	Vertical
5	11187.54	31.75	-35.01	39.41	-59.11	-13.00	46.11	255	7	Vertical
6	13052.13	32.37	-34.68	39.63	-57.94	-13.00	44.94	286	313	Vertical



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Test Band = SA Band 25_ TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3751.5	63.59	-45.56	30.00	-47.23	-13.00	34.23	263	328	Horizontal
2	5626.5	56.81	-43.83	33.00	-49.27	-13.00	36.27	265	145	Horizontal
3	7502.25	48.97	-41.59	36.50	-51.38	-13.00	38.38	241	228	Horizontal
4	9378	39.53	-38.21	38.56	-55.38	-13.00	42.38	142	245	Horizontal
5	11262.54	31.21	-35.21	39.34	-59.92	-13.00	46.92	296	2	Horizontal
6	13139.63	30.97	-34.60	39.68	-59.21	-13.00	46.21	268	48	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3751.5	67.85	-45.56	30.00	-42.97	-13.00	29.97	196	196	Vertical
2	5627.25	66.35	-43.83	33.01	-39.73	-13.00	26.73	265	2	Vertical
3	7502.25	55.97	-41.59	36.50	-44.38	-13.00	31.38	284	296	Vertical
4	9378	47.62	-38.21	38.56	-47.29	-13.00	34.29	256	162	Vertical
5	11262.54	31.54	-35.21	39.34	-59.59	-13.00	46.59	225	27	Vertical
6	13139.63	31.07	-34.60	39.68	-59.11	-13.00	46.11	221	0	Vertical



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Test Band = DC_12A_n25A_TM1

Test Channel = Low Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3701.25	52.31	-45.70	29.88	-58.76	-13.00	45.76	142	227	Horizontal
2	7402.5	47.56	-41.97	36.44	-53.23	-13.00	40.23	296	312	Horizontal
3	9253.5	41.15	-38.39	38.57	-53.93	-13.00	40.93	263	76	Horizontal
4	5556.27	40.07	-43.87	32.78	-66.28	-13.00	53.28	241	59	Horizontal
5	11112.54	31.51	-35.33	39.49	-59.59	-13.00	46.59	142	110	Horizontal
6	12964.63	32.78	-34.90	39.57	-57.81	-13.00	44.81	255	160	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3701.25	58.71	-45.70	29.88	-52.36	-13.00	39.36	174	211	Vertical
2	5552.25	52.73	-43.87	32.77	-53.64	-13.00	40.64	185	357	Vertical
3	7402.5	57.93	-41.97	36.44	-42.86	-13.00	29.86	263	0	Vertical
4	9253.5	47.49	-38.39	38.57	-47.59	-13.00	34.59	254	126	Vertical
5	11103.75	35.44	-35.36	39.50	-55.69	-13.00	42.69	142	126	Vertical
6	12954	39.74	-34.89	39.55	-50.86	-13.00	37.86	263	59	Vertical



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Test Band = DC_12A_n25A_TM1

Test Channel = Mid Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3726	50.92	-45.63	29.94	-60.03	-13.00	47.03	296	229	Horizontal
2	5589	44.16	-43.86	32.88	-62.08	-13.00	49.08	265	327	Horizontal
3	7452.75	46.96	-41.78	36.47	-53.61	-13.00	40.61	241	310	Horizontal
4	9315.75	43.83	-38.35	38.57	-51.22	-13.00	38.22	159	45	Horizontal
5	12865.5	33.31	-34.94	39.47	-57.42	-13.00	44.42	185	0	Horizontal
6	14599.5	33.31	-34.70	39.60	-57.05	-13.00	44.05	263	0	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3726	59.66	-45.63	29.94	-51.29	-13.00	38.29	196	12	Vertical
2	5589.75	55.55	-43.86	32.89	-50.69	-13.00	37.69	265	357	Vertical
3	7452.75	58.17	-41.78	36.47	-42.40	-13.00	29.40	284	0	Vertical
4	9315.75	50.94	-38.35	38.57	-44.11	-13.00	31.11	142	125	Vertical
5	11178.75	38.09	-35.05	39.42	-52.80	-13.00	39.80	266	125	Vertical
6	13041.75	40.95	-34.73	39.63	-49.41	-13.00	36.41	287	41	Vertical



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Test Band = DC_12A_n25A_TM1

Test Channel = High Channel

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3751.5	50.15	-45.56	30.00	-60.67	-13.00	47.67	196	145	Horizontal
2	5627.25	43.12	-43.83	33.01	-62.96	-13.00	49.96	265	327	Horizontal
3	7502.25	48.16	-41.59	36.50	-52.19	-13.00	39.19	284	310	Horizontal
4	9378	43.80	-38.21	38.56	-51.11	-13.00	38.11	142	47	Horizontal
5	12076.5	33.50	-35.23	38.68	-58.31	-13.00	45.31	263	211	Horizontal
6	15126.75	32.98	-33.86	39.04	-57.10	-13.00	44.10	221	47	Horizontal

Final Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	3751.5	56.64	-45.56	30.00	-54.18	-13.00	41.18	142	15	Vertical
2	5626.5	53.12	-43.83	33.00	-52.96	-13.00	39.96	296	0	Vertical
3	7502.25	59.16	-41.59	36.50	-41.19	-13.00	28.19	265	0	Vertical
4	9378	50.27	-38.21	38.56	-44.64	-13.00	31.64	284	113	Vertical
5	13129.5	35.22	-34.57	39.68	-54.93	-13.00	41.93	142	46	Vertical
6	16808.25	33.18	-32.18	38.47	-55.79	-13.00	42.79	263	262	Vertical

Remark:

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

AF = Antenna Factor(dB/m)

Factor = Cable Factor(dB) - Preamplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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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
N25	15	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	4.800000	0.002550	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	4.100000	0.002178	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	2.300000	0.001222	PASS
N25	15	40	CP-QPSK	M	Outer_Full	VH	NT	2.300000	0.001222	PASS
N25	15	40	CP-QPSK	M	Outer_Full	VN	NT	10.500000	0.005578	PASS
N25	15	40	CP-QPSK	M	Outer_Full	VL	NT	5.900000	0.003134	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	9.300000	0.004940	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	8.400000	0.004462	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	15.400000	0.008181	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	0	18.800000	0.009987	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	10	17.600000	0.009349	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	20	15.000000	0.007968	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	30	16.400000	0.008712	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	40	11.600000	0.006162	PASS
N25	15	40	DFT-PI2BPSK	M	Outer_Full	NV	50	5.100000	0.002709	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	-30	3.400000	0.001806	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	-20	12.000000	0.006375	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	-10	3.900000	0.002072	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	0	5.200000	0.002762	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	10	6.300000	0.003347	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	20	4.100000	0.002178	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	30	10.600000	0.005631	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	40	4.200000	0.002231	PASS
N25	15	40	CP-QPSK	M	Outer_Full	NV	50	8.700000	0.004622	PASS

---End of Attachment---



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