

## Conducted Spurious Emission for SA

### Test Result

Band	SCS	Bandwidth	Modulation	Channel	RB Config	StartFreq	StopFreq	Result	Limit	Verdict
N7	15	40	DFT-PI2BPSK	L	Inner_1RB_Left	0.009	0.15	-62.14	-55	PASS
N7	15	40	DFT-PI2BPSK	L	Inner_1RB_Left	0.15	30	-60.98	-45	PASS
N7	15	40	DFT-PI2BPSK	L	Inner_1RB_Left	30	1000	-58.90	-35	PASS
N7	15	40	DFT-PI2BPSK	L	Inner_1RB_Left	1000	3000	-41.47	-25	PASS
N7	15	40	DFT-PI2BPSK	L	Inner_1RB_Left	3000	12000	-44.86	-25	PASS
N7	15	40	DFT-PI2BPSK	L	Inner_1RB_Left	12000	27000	-29.82	-25	PASS
N7	15	40	DFT-PI2BPSK	M	Inner_1RB_Left	0.009	0.15	-63.91	-55	PASS
N7	15	40	DFT-PI2BPSK	M	Inner_1RB_Left	0.15	30	-60.61	-45	PASS
N7	15	40	DFT-PI2BPSK	M	Inner_1RB_Left	30	1000	-59.15	-35	PASS
N7	15	40	DFT-PI2BPSK	M	Inner_1RB_Left	1000	3000	-42.53	-25	PASS
N7	15	40	DFT-PI2BPSK	M	Inner_1RB_Left	3000	12000	-48.49	-25	PASS
N7	15	40	DFT-PI2BPSK	M	Inner_1RB_Left	12000	27000	-29.30	-25	PASS
N7	15	40	DFT-PI2BPSK	H	Inner_1RB_Left	0.009	0.15	-63.60	-55	PASS
N7	15	40	DFT-PI2BPSK	H	Inner_1RB_Left	0.15	30	-61.10	-45	PASS
N7	15	40	DFT-PI2BPSK	H	Inner_1RB_Left	30	1000	-58.83	-35	PASS
N7	15	40	DFT-PI2BPSK	H	Inner_1RB_Left	1000	3000	-42.50	-25	PASS
N7	15	40	DFT-PI2BPSK	H	Inner_1RB_Left	3000	12000	-43.26	-25	PASS
N7	15	40	DFT-PI2BPSK	H	Inner_1RB_Left	12000	27000	-29.64	-25	PASS



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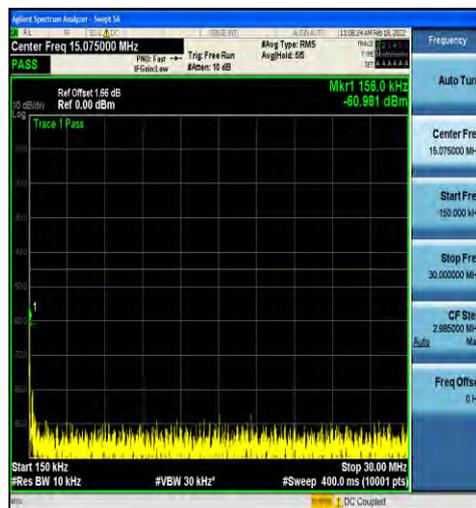
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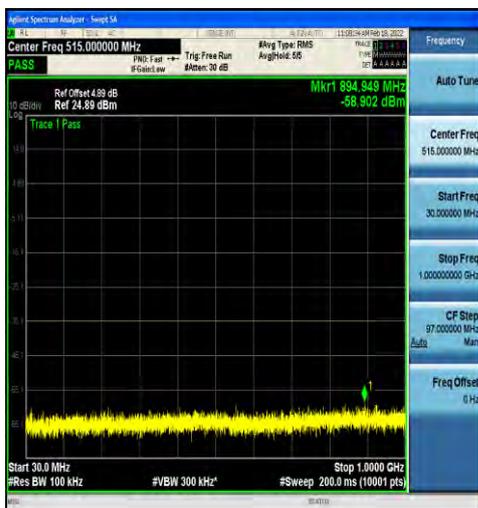
Test Graphs



1-N7-15-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1  
 -0.009-0.15-Ant2--62.14--55-PASS



1-N7-15-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-  
 0.15-30-Ant2--60.98--45-PASS



1-N7-15-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1  
 -30-1000-Ant2--58.90--35-PASS



1-N7-15-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-  
 1000-3000-Ant2--41.47--25-PASS





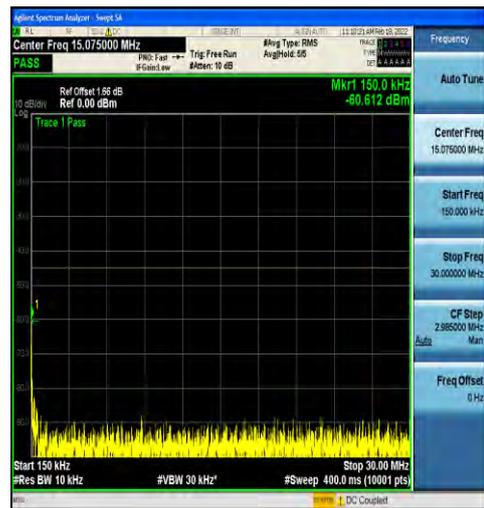
1-N7-15-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1  
-3000-12000-Ant2--44.86--25-PASS



1-N7-15-40-L-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1-  
12000-27000-Ant2--29.82--25-PASS



1-N7-15-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-0.009-0.15-Ant2--63.91--55-PASS



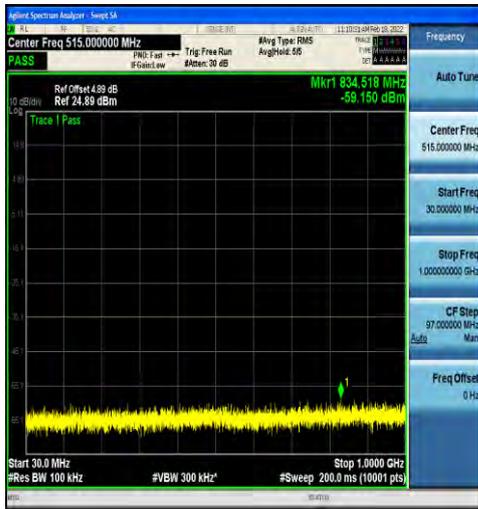
1-N7-15-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1  
-0.15-30-Ant2--60.61--45-PASS



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1-N7-15-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-30-1000-Ant2--59.15--35-PASS



1-N7-15-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1  
-1000-3000-Ant2--42.53--25-PASS



1-N7-15-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-3-3000-12000-Ant2--48.49--25-PASS



1-N7-15-40-M-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1  
-12000-27000-Ant2--29.30--25-PASS



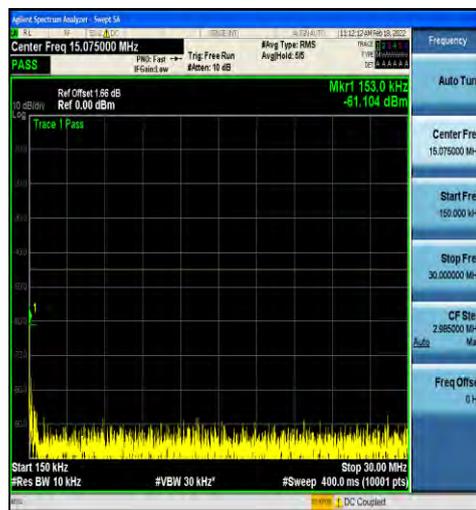
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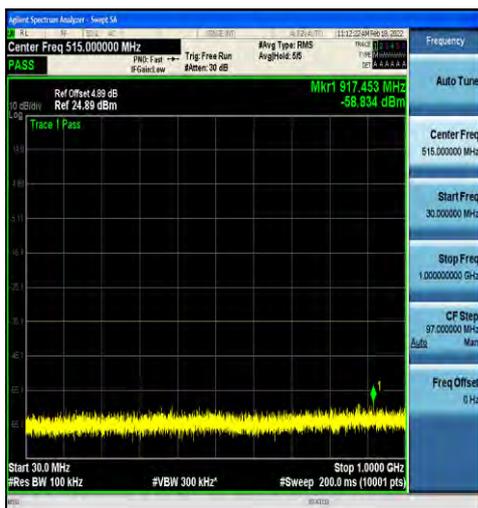
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1-N7-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
 1-0.009-0.15-Ant2--63.60--55-PASS



1-N7-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1  
 -0.15-30-Ant2--61.10--45-PASS



1-N7-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
 1-30-1000-Ant2--58.83--35-PASS



1-N7-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@1  
 -1000-3000-Ant2--42.50--25-PASS





1-N7-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
1-3000-12000-Ant2--43.26--25-PASS



1-N7-15-40-H-1-DFT-PI2BPSK-Inner\_1RB\_Left-1@  
-12000-27000-Ant2--29.64--25-PASS



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## Field Strength of Spurious Radiation

Test Band =SA\_Band 7\_TM1 ANT2

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	5002.18	49.80	-107.58	-57.78	-25.00	32.78	235	56	Horizontal
2	7502.1429	52.04	-100.35	-48.31	-25.00	23.31	145	81	Horizontal
3	10004.36	43.85	-93.89	-50.04	-25.00	25.04	198	57	Horizontal
4	12505.45	43.25	-91.38	-48.13	-25.00	23.13	175	11	Horizontal
5	15006.54	41.73	-90.07	-48.34	-25.00	23.34	125	338	Horizontal
6	17507.63	38.66	-86.50	-47.84	-25.00	22.84	231	291	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	50.38	-107.58	-57.20	-25.00	32.20	199	186	Vertical
2	7502.1429	50.92	-100.35	-49.43	-25.00	24.43	122	360	Vertical
3	10004.36	43.51	-93.89	-50.38	-25.00	25.38	186	141	Vertical
4	12505.45	43.52	-91.38	-47.86	-25.00	22.86	234	222	Vertical
5	15006.54	41.56	-90.07	-48.51	-25.00	23.51	125	348	Vertical
6	17507.63	38.90	-86.50	-47.60	-25.00	22.60	174	174	Vertical



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Test Band =SA\_Band 7\_ TM1 ANT2

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	5052.18	49.05	-107.26	-58.21	-25.00	33.21	147	353	Horizontal
2	7577.1429	59.57	-99.94	-40.37	-25.00	15.37	159	70	Horizontal
3	10104.36	43.64	-93.44	-49.80	-25.00	24.80	235	294	Horizontal
4	12630.45	42.48	-90.75	-48.27	-25.00	23.27	205	70	Horizontal
5	15156.54	40.92	-89.53	-48.61	-25.00	23.61	166	258	Horizontal
6	17682.63	39.34	-85.04	-45.70	-25.00	20.70	183	116	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	49.12	-107.26	-58.14	-25.00	33.14	125	81	Vertical
2	7577.1429	52.99	-99.94	-46.95	-25.00	21.95	138	54	Vertical
3	10104.36	43.28	-93.44	-50.16	-25.00	25.16	149	93	Vertical
4	12630.45	42.04	-90.75	-48.71	-25.00	23.71	122	93	Vertical
5	15156.54	40.67	-89.53	-48.86	-25.00	23.86	103	360	Vertical
6	17682.63	39.44	-85.04	-45.60	-25.00	20.60	198	104	Vertical



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**Test Band =SA\_Band 7\_ TM1 ANT2**  
**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	5282.1429	52.05	-106.70	-54.65	-25.00	29.65	135	258	Horizontal
2	7652.1429	54.31	-99.75	-45.44	-25.00	20.44	222	82	Horizontal
3	10204.36	42.97	-93.10	-50.13	-25.00	25.13	301	318	Horizontal
4	12755.45	42.08	-91.01	-48.93	-25.00	23.93	186	282	Horizontal
5	15306.54	41.54	-90.33	-48.79	-25.00	23.79	149	354	Horizontal
6	17857.63	40.28	-84.18	-43.90	-25.00	18.90	294	359	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	48.94	-106.94	-58.00	-25.00	33.00	196	33	Vertical
2	7653.27	47.99	-99.75	-51.76	-25.00	26.76	148	245	Vertical
3	10204.36	42.92	-93.10	-50.18	-25.00	25.18	172	163	Vertical
4	12755.45	42.50	-91.01	-48.51	-25.00	23.51	138	257	Vertical
5	15306.54	41.20	-90.33	-49.13	-25.00	24.13	142	3	Vertical
6	17857.63	43.46	-84.18	-40.72	-25.00	15.72	166	116	Vertical



**Test Band = ENDC\_5A\_n7A \_ TM1 ANT2**

**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	5002.18	49.76	-107.58	-57.82	-25.00	32.82	145	117	Horizontal
2	7503.27	48.15	-100.34	-52.19	-25.00	27.19	136	117	Horizontal
3	9831.4286	57.98	-94.16	-36.18	-25.00	11.18	194	270	Horizontal
4	12505.45	43.42	-91.38	-47.96	-25.00	22.96	172	245	Horizontal
5	15006.54	41.33	-90.07	-48.74	-25.00	23.74	228	114	Horizontal
6	17507.63	39.25	-86.50	-47.25	-25.00	22.25	140	360	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5002.18	48.86	-107.58	-58.72	-25.00	33.72	184	357	Vertical
2	7502.1429	54.21	-100.35	-46.14	-25.00	21.14	197	169	Vertical
3	9831.4286	54.69	-94.16	-39.47	-25.00	14.47	126	210	Vertical
4	12505.45	43.63	-91.38	-47.75	-25.00	22.75	234	360	Vertical
5	15006.54	42.00	-90.07	-48.07	-25.00	23.07	175	359	Vertical
6	17507.63	38.34	-86.50	-48.16	-25.00	23.16	211	129	Vertical



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**Test Band = ENDC\_5A\_n7A\_TM1 ANT2**

**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	5052.18	48.86	-107.26	-58.40	-25.00	33.40	196	257	Horizontal
2	7578.27	48.40	-99.93	-51.53	-25.00	26.53	124	128	Horizontal
3	9831.4286	58.51	-94.16	-35.65	-25.00	10.65	238	128	Horizontal
4	13060.7143	44.60	-90.26	-45.66	-25.00	20.66	177	14	Horizontal
5	15156.54	41.70	-89.53	-47.83	-25.00	22.83	102	346	Horizontal
6	17682.63	39.48	-85.04	-45.56	-25.00	20.56	149	151	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5052.18	50.41	-107.26	-56.85	-25.00	31.85	195	267	Vertical
2	7578.27	48.65	-99.93	-51.28	-25.00	26.28	146	359	Vertical
3	9831.4286	54.80	-94.16	-39.36	-25.00	14.36	237	116	Vertical
4	12630.45	43.57	-90.75	-47.18	-25.00	22.18	105	360	Vertical
5	15156.54	41.15	-89.53	-48.38	-25.00	23.38	166	24	Vertical
6	17682.63	39.92	-85.04	-45.12	-25.00	20.12	199	197	Vertical



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**Test Band = ENDC\_5A\_n7A \_ TM1 ANT2**  
**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	5102.18	50.30	-106.94	-56.64	-25.00	31.64	233	10	Horizontal
2	7652.1429	61.51	-99.75	-38.24	-25.00	13.24	263	258	Horizontal
3	10311.4286	48.49	-93.21	-44.72	-25.00	19.72	245	18	Horizontal
4	12755.45	43.13	-91.01	-47.88	-25.00	22.88	189	354	Horizontal
5	15306.54	42.46	-90.33	-47.87	-25.00	22.87	172	187	Horizontal
6	17857.63	41.23	-84.18	-42.95	-25.00	17.95	193	359	Horizontal

Final Data List									
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5102.18	49.85	-106.94	-57.09	-25.00	32.09	194	279	Vertical
2	7652.1429	56.91	-99.75	-42.84	-25.00	17.84	186	303	Vertical
3	10204.36	43.51	-93.10	-49.59	-25.00	24.59	234	94	Vertical
4	12755.45	43.11	-91.01	-47.90	-25.00	22.90	172	126	Vertical
5	15306.54	41.60	-90.33	-48.73	-25.00	23.73	206	347	Vertical
6	17857.63	40.37	-84.18	-43.81	-25.00	18.81	111	163	Vertical

Remark: all the antenna were tested, but only showed the worst case in this report.



## 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
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-6.817000	-0.002689	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-10.820000	-0.004268	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-5.861000	-0.002312	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VH	NT	-5.581000	-0.002202	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VN	NT	-4.893000	-0.001930	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VL	NT	0.850000	0.000335	PASS



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Frequency Error VS. Temperature

Voltage										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-30	-5.156000	-0.002034	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-6.454000	-0.002546	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-6.716000	-0.002649	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-4.333000	-0.001709	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	10	-7.712000	-0.003042	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-7.872000	-0.003105	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	30	-6.940000	-0.002738	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-5.842000	-0.002305	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	50	-6.255000	-0.002467	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-30	-4.877000	-0.001924	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-20	-2.215000	-0.000874	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-10	-5.407000	-0.002133	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	0	-7.203000	-0.002841	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	10	-0.688000	-0.000271	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	20	-4.086000	-0.001612	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	30	-6.133000	-0.002419	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	40	-7.179000	-0.002832	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	50	-5.510000	-0.002174	PASS

The End



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