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Field Strength of Spurious Radiation

Test Band = n7_40MHz _ TM1

Test Channel = Low ANT12

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5004.1800	41.16	-45.63	32.88	-66.85	-25.00	41.85	244	307	Horizontal
2	7506.2700	39.49	-43.13	36.44	-62.46	-25.00	37.46	158	253	Horizontal
3	10008.3600	34.18	-39.23	38.50	-61.81	-25.00	36.81	174	4	Horizontal
4	12510.4500	30.06	-37.02	39.19	-63.03	-25.00	38.03	153	72	Horizontal
5	15012.5400	27.03	-34.67	39.20	-63.70	-25.00	38.70	126	126	Horizontal
6	17514.6300	30.91	-34.82	39.25	-59.92	-25.00	34.92	291	234	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5004.1800	42.65	-45.63	32.88	-65.36	-25.00	40.36	219	0	Vertical
2	7506.2700	39.44	-43.13	36.44	-62.51	-25.00	37.51	175	108	Vertical
3	10008.3600	34.02	-39.23	38.50	-61.97	-25.00	36.97	142	0	Vertical
4	12510.4500	30.00	-37.02	39.19	-63.09	-25.00	38.09	150	0	Vertical
5	15012.5400	26.00	-34.67	39.20	-64.73	-25.00	39.73	163	127	Vertical
6	17514.6300	30.33	-34.82	39.25	-60.50	-25.00	35.50	216	7	Vertical



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Test Band = n7_40MHz _ TM1
Test Channel = Mid ANT12

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5034.1800	41.73	-45.55	32.90	-66.18	-25.00	41.18	244	73	Horizontal
2	7551.2700	39.11	-43.03	36.41	-62.77	-25.00	37.77	156	54	Horizontal
3	10068.3600	33.70	-39.16	38.60	-62.12	-25.00	37.12	123	254	Horizontal
4	12585.4500	28.40	-37.52	39.26	-65.12	-25.00	40.12	269	90	Horizontal
5	15102.5400	27.30	-34.92	39.08	-63.80	-25.00	38.80	192	73	Horizontal
6	17619.6300	29.58	-33.39	39.66	-59.41	-25.00	34.41	184	359	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5034.1800	42.47	-45.55	32.90	-65.44	-25.00	40.44	174	18	Vertical
2	7551.2700	38.98	-43.03	36.41	-62.90	-25.00	37.90	152	288	Vertical
3	10068.3600	34.02	-39.16	38.60	-61.80	-25.00	36.80	149	144	Vertical
4	12585.4500	29.18	-37.52	39.26	-64.34	-25.00	39.34	182	0	Vertical
5	15102.5400	27.47	-34.92	39.08	-63.63	-25.00	38.63	190	1	Vertical
6	17619.6300	30.21	-33.39	39.66	-58.78	-25.00	33.78	165	72	Vertical



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Test Band = n7_40MHz _ TM1
Test Channel = High ANT12

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5064.1800	40.85	-45.47	32.92	-66.96	-25.00	41.96	198	90	Horizontal
2	7596.2700	38.54	-42.94	36.39	-63.27	-25.00	38.27	109	144	Horizontal
3	10128.3600	32.91	-39.23	38.70	-62.88	-25.00	37.88	135	269	Horizontal
4	12660.4500	30.05	-37.05	39.39	-62.88	-25.00	37.88	126	54	Horizontal
5	15192.5400	26.61	-33.99	38.96	-63.68	-25.00	38.68	167	72	Horizontal
6	17724.6300	30.94	-34.18	40.34	-58.16	-25.00	33.16	187	340	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5064.1800	40.97	-45.47	32.92	-66.84	-25.00	41.84	216	2	Vertical
2	7596.2700	38.32	-42.94	36.39	-63.49	-25.00	38.49	142	2	Vertical
3	10128.3600	33.21	-39.23	38.70	-62.58	-25.00	37.58	123	0	Vertical
4	12660.4500	29.77	-37.05	39.39	-63.16	-25.00	38.16	230	236	Vertical
5	15192.5400	26.83	-33.99	38.96	-63.46	-25.00	38.46	183	53	Vertical
6	17724.6300	31.10	-34.18	40.34	-58.00	-25.00	33.00	175	342	Vertical



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Test Band = NSA 2A-n7A_ TM1

Test Channel = Low

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5004.1800	41.19	-45.63	32.88	-66.82	-25.00	41.82	244	182	Horizontal
2	7506.2700	38.65	-43.13	36.44	-63.30	-25.00	38.30	158	109	Horizontal
3	10008.3600	31.62	-39.23	38.50	-64.37	-25.00	39.37	172	354	Horizontal
4	12510.4500	26.33	-37.02	39.19	-66.76	-25.00	41.76	166	360	Horizontal
5	15012.5400	23.31	-34.67	39.20	-67.42	-25.00	42.42	259	146	Horizontal
6	17514.6300	26.88	-34.82	39.25	-63.95	-25.00	38.95	193	36	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5004.1800	40.90	-45.63	32.88	-67.11	-25.00	42.11	248	324	Vertical
2	7506.2700	38.51	-43.13	36.44	-63.44	-25.00	38.44	175	0	Vertical
3	10008.3600	32.72	-39.23	38.50	-63.27	-25.00	38.27	146	162	Vertical
4	12510.4500	26.39	-37.02	39.19	-66.70	-25.00	41.70	198	54	Vertical
5	15012.5400	24.12	-34.67	39.20	-66.61	-25.00	41.61	183	357	Vertical
6	17514.6300	26.92	-34.82	39.25	-63.91	-25.00	38.91	256	54	Vertical



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Test Band = NSA 2A-n7A_ TM1
Test Channel = Mid

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5034.1800	41.93	-45.55	32.90	-65.98	-25.00	40.98	241	109	Horizontal
2	7551.2700	38.49	-43.03	36.41	-63.39	-25.00	38.39	120	145	Horizontal
3	10068.3600	32.88	-39.16	38.60	-62.94	-25.00	37.94	123	358	Horizontal
4	12585.4500	26.42	-37.52	39.26	-67.10	-25.00	42.10	165	352	Horizontal
5	15102.5400	25.43	-34.92	39.08	-65.67	-25.00	40.67	182	289	Horizontal
6	17619.6300	26.26	-33.39	39.66	-62.73	-25.00	37.73	192	4	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5034.1800	41.19	-45.55	32.90	-66.72	-25.00	41.72	241	163	Vertical
2	7551.2700	38.65	-43.03	36.41	-63.23	-25.00	38.23	175	0	Vertical
3	10068.3600	32.23	-39.16	38.60	-63.59	-25.00	38.59	142	37	Vertical
4	12585.4500	26.33	-37.52	39.26	-67.19	-25.00	42.19	183	163	Vertical
5	15102.5400	24.21	-34.92	39.08	-66.89	-25.00	41.89	259	254	Vertical
6	17619.6300	26.49	-33.39	39.66	-62.50	-25.00	37.50	192	273	Vertical



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Test Band = NSA 2A-n7A_ TM1
Test Channel = High

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5064.1800	40.97	-45.47	32.92	-66.84	-25.00	41.84	274	53	Horizontal
2	7596.2700	38.78	-42.94	36.39	-63.03	-25.00	38.03	158	71	Horizontal
3	10128.3600	30.46	-39.23	38.70	-65.33	-25.00	40.33	192	179	Horizontal
4	12660.4500	27.20	-37.05	39.39	-65.73	-25.00	40.73	142	325	Horizontal
5	15192.5400	24.78	-33.99	38.96	-65.51	-25.00	40.51	153	342	Horizontal
6	17724.6300	28.36	-34.18	40.34	-60.74	-25.00	35.74	261	17	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5064.1800	41.29	-45.47	32.92	-66.52	-25.00	41.52	233	181	Vertical
2	7596.2700	38.58	-42.94	36.39	-63.23	-25.00	38.23	162	90	Vertical
3	10128.3600	30.43	-39.23	38.70	-65.36	-25.00	40.36	145	7	Vertical
4	12660.4500	26.77	-37.05	39.39	-66.16	-25.00	41.16	172	7	Vertical
5	15192.5400	24.24	-33.99	38.96	-66.05	-25.00	41.05	153	306	Vertical
6	17724.6300	28.56	-34.18	40.34	-60.54	-25.00	35.54	216	290	Vertical



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Test Band = NSA 66A-n7A_ TM1
Test Channel = Low

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5004.1800	40.78	-45.63	32.88	-67.23	-25.00	42.23	266	342	Horizontal
2	7506.2700	37.94	-43.13	36.44	-64.01	-25.00	39.01	158	352	Horizontal
3	10008.3600	31.93	-39.23	38.50	-64.06	-25.00	39.06	174	126	Horizontal
4	12510.4500	26.28	-37.02	39.19	-66.81	-25.00	41.81	182	3	Horizontal
5	15012.5400	23.74	-34.67	39.20	-66.99	-25.00	41.99	193	72	Horizontal
6	17514.6300	27.48	-34.82	39.25	-63.35	-25.00	38.35	251	90	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5004.1800	41.18	-45.63	32.88	-66.83	-25.00	41.83	248	178	Vertical
2	7506.2700	37.80	-43.13	36.44	-64.15	-25.00	39.15	175	162	Vertical
3	10008.3600	31.98	-39.23	38.50	-64.01	-25.00	39.01	142	71	Vertical
4	12510.4500	25.91	-37.02	39.19	-67.18	-25.00	42.18	165	306	Vertical
5	15012.5400	24.01	-34.67	39.20	-66.72	-25.00	41.72	192	2	Vertical
6	17514.6300	26.66	-34.82	39.25	-64.17	-25.00	39.17	153	270	Vertical



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Test Band = NSA 66A-n7A_ TM1
Test Channel = Mid

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5034.1800	40.94	-45.55	32.90	-66.97	-25.00	41.97	233	91	Horizontal
2	7551.2700	38.09	-43.03	36.41	-63.79	-25.00	38.79	126	359	Horizontal
3	10068.3600	32.28	-39.16	38.60	-63.54	-25.00	38.54	259	360	Horizontal
4	12585.4500	25.93	-37.52	39.26	-67.59	-25.00	42.59	148	197	Horizontal
5	15102.5400	23.96	-34.92	39.08	-67.14	-25.00	42.14	176	288	Horizontal
6	17619.6300	26.55	-33.39	39.66	-62.44	-25.00	37.44	283	161	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5034.1800	40.49	-45.55	32.90	-67.42	-25.00	42.42	218	35	Vertical
2	7551.2700	39.23	-43.03	36.41	-62.65	-25.00	37.65	147	1	Vertical
3	10068.3600	32.42	-39.16	38.60	-63.40	-25.00	38.40	165	90	Vertical
4	12585.4500	25.18	-37.52	39.26	-68.34	-25.00	43.34	182	181	Vertical
5	15102.5400	24.49	-34.92	39.08	-66.61	-25.00	41.61	153	357	Vertical
6	17619.6300	26.63	-33.39	39.66	-62.36	-25.00	37.36	266	270	Vertical



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Test Band = NSA 66A-n7A_ TM1
Test Channel = High

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5064.1800	41.06	-45.47	32.92	-66.75	-25.00	41.75	144	360	Horizontal
2	7596.2700	38.74	-42.94	36.39	-63.07	-25.00	38.07	128	72	Horizontal
3	10128.3600	31.02	-39.23	38.70	-64.77	-25.00	39.77	173	305	Horizontal
4	12660.4500	26.57	-37.05	39.39	-66.36	-25.00	41.36	269	340	Horizontal
5	15192.5400	24.33	-33.99	38.96	-65.96	-25.00	40.96	291	305	Horizontal
6	17724.6300	27.29	-34.18	40.34	-61.81	-25.00	36.81	158	143	Horizontal

Data List										
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	5064.1800	40.55	-45.47	32.92	-67.26	-25.00	42.26	244	288	Vertical
2	7596.2700	38.13	-42.94	36.39	-63.68	-25.00	38.68	175	252	Vertical
3	10128.3600	30.53	-39.23	38.70	-65.26	-25.00	40.26	142	324	Vertical
4	12660.4500	27.37	-37.05	39.39	-65.56	-25.00	40.56	129	36	Vertical
5	15192.5400	24.34	-33.99	38.96	-65.95	-25.00	40.95	183	72	Vertical
6	17724.6300	26.73	-34.18	40.34	-62.37	-25.00	37.37	236	1	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
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VH	NT	-1.500000	-0.000635	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VN	NT	-2.900000	-0.002341	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	VL	NT	-0.800000	-0.000056	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VH	NT	-0.600000	-0.000265	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VN	NT	-1.900000	-0.000635	PASS
N7	15	40	CP-QPSK	M	Outer_Full	VL	NT	1.500000	0.000653	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	2.800000	0.001036	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-20	-3.500000	-0.001563	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	-10	-4.600000	-0.002306	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	0	-5.200000	-0.002436	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	10	-4.100000	-0.001635	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	20	-3.200000	-0.002136	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	30	-3.500000	-0.001253	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	40	-2.500000	-0.001452	PASS
N7	15	40	DFT-PI2BPSK	M	Outer_Full	NV	50	-3.300000	-0.001532	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-30	-1.500000	-0.000653	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-20	-0.600000	-0.000226	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	-10	-0.700000	-0.000326	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	0	0.800000	0.000089	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	10	-2.900000	-0.000986	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	20	1.500000	0.000263	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	30	-0.900000	-0.000364	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	40	-0.800000	-0.000269	PASS
N7	15	40	CP-QPSK	M	Outer_Full	NV	50	0.600000	0.000234	PASS

---End of Attachment---



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