

Test Band = SA_N41 MIMO

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3613	54.85	-49.54	30.25	-59.70	-25.00	34.70	Horizontal
2	4852	52.77	-47.76	32.81	-57.44	-25.00	32.44	Horizontal
3	6601	51.89	-44.88	35.41	-52.84	-25.00	27.84	Horizontal
4	8569.5	50.21	-41.75	38.75	-48.05	-25.00	23.05	Horizontal
5	12553	47.66	-37.12	39.45	-45.27	-25.00	20.27	Horizontal
6	17908	49.04	-38.16	42.25	-42.13	-25.00	17.13	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3631	54.51	-49.52	30.32	-59.95	-25.00	34.95	Vertical
2	5122	52.85	-47.34	33.54	-56.21	-25.00	31.21	Vertical
3	6517	52.74	-44.85	35.13	-52.24	-25.00	27.24	Vertical
4	8544	49.62	-41.48	38.96	-48.16	-25.00	23.16	Vertical
5	14153.5	47.17	-35.47	40.75	-42.81	-25.00	17.81	Vertical
6	17913.5	48.92	-38.26	42.28	-42.32	-25.00	17.32	Vertical



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Test Band = SA_N41 MIMO

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3617	54.93	-49.53	30.27	-59.59	-25.00	34.59	Horizontal
2	5357.5	52.57	-46.71	33.19	-56.21	-25.00	31.21	Horizontal
3	7342	51.71	-43.61	36.93	-50.23	-25.00	25.23	Horizontal
4	8555	49.54	-41.46	39.01	-48.17	-25.00	23.17	Horizontal
5	12858.5	48.38	-36.97	39.42	-44.43	-25.00	19.43	Horizontal
6	17911	48.84	-38.21	42.27	-42.36	-25.00	17.36	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3609	54.67	-49.54	30.24	-59.89	-25.00	34.89	Vertical
2	4989.5	53.15	-47.33	33.12	-56.32	-25.00	31.32	Vertical
3	7240.5	51.54	-44.23	37.18	-50.77	-25.00	25.77	Vertical
4	8549	49.91	-41.38	39.08	-47.65	-25.00	22.65	Vertical
5	12912.5	47.80	-37.15	39.58	-45.03	-25.00	20.03	Vertical
6	17987.5	49.42	-38.97	42.73	-42.08	-25.00	17.08	Vertical



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Rev.: 01

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Test Band = NSA_B12+N41

Test Channel = LCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3786	53.74	-49.60	30.50	-60.62	-25.00	35.62	Horizontal
2	5872.5	51.84	-45.72	34.19	-54.95	-25.00	29.95	Horizontal
3	8545	48.93	-41.46	38.98	-48.81	-25.00	23.81	Horizontal
4	11750	47.55	-38.26	39.70	-46.27	-25.00	21.27	Horizontal
5	15111.5	48.38	-35.99	39.78	-43.09	-25.00	18.09	Horizontal
6	17985.5	48.77	-38.97	42.71	-42.75	-25.00	17.75	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3751	53.92	-49.45	30.50	-60.29	-25.00	35.29	Vertical
2	5151.5	52.52	-47.16	33.56	-56.34	-25.00	31.34	Vertical
3	8549	49.26	-41.38	39.08	-48.30	-25.00	23.30	Vertical
4	9485	49.76	-40.73	39.14	-47.09	-25.00	22.09	Vertical
5	13429.5	47.04	-36.47	40.24	-44.45	-25.00	19.45	Vertical
6	17998.5	48.96	-38.99	42.79	-42.50	-25.00	17.50	Vertical



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Test Band = NSA_B12+N41

Test Channel = MCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3640	54.15	-49.51	30.36	-60.26	-25.00	35.26	Horizontal
2	5873.5	51.92	-45.72	34.19	-54.87	-25.00	29.87	Horizontal
3	7958	50.58	-43.32	37.48	-50.52	-25.00	25.52	Horizontal
4	9474	49.68	-40.84	39.10	-47.32	-25.00	22.32	Horizontal
5	14524	47.20	-35.85	40.58	-43.33	-25.00	18.33	Horizontal
6	17995	48.96	-38.98	42.77	-42.51	-25.00	17.51	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3873.5	53.81	-49.50	30.49	-60.46	-25.00	35.46	Vertical
2	5893.5	51.40	-45.64	34.27	-55.23	-25.00	30.23	Vertical
3	8543	49.45	-41.50	38.93	-48.38	-25.00	23.38	Vertical
4	9498.5	49.35	-40.60	39.19	-47.32	-25.00	22.32	Vertical
5	13518	47.36	-36.62	40.06	-44.46	-25.00	19.46	Vertical
6	17991	48.62	-38.98	42.75	-42.87	-25.00	17.87	Vertical



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Test Band = NSA_B12+N41

Test Channel = HCH

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3604	54.48	-49.55	30.22	-60.11	-25.00	35.11	Horizontal
2	5125.5	52.42	-47.32	33.55	-56.61	-25.00	31.61	Horizontal
3	6943.5	51.76	-44.51	36.37	-51.64	-25.00	26.64	Horizontal
4	9468	49.63	-40.90	39.07	-47.46	-25.00	22.46	Horizontal
5	13418.5	47.10	-36.54	40.26	-44.44	-25.00	19.44	Horizontal
6	17993	48.73	-38.98	42.76	-42.75	-25.00	17.75	Horizontal

Final Data List								
NO.	Freq. [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3631.5	54.27	-49.52	30.33	-60.18	-25.00	35.18	Vertical
2	5090	52.22	-47.47	33.48	-57.03	-25.00	32.03	Vertical
3	6975.5	50.93	-44.01	36.45	-51.89	-25.00	26.89	Vertical
4	9487.5	49.54	-40.71	39.15	-47.28	-25.00	22.28	Vertical
5	13233.5	46.55	-36.58	40.37	-44.92	-25.00	19.92	Vertical
6	17986.5	48.63	-38.97	42.72	-42.88	-25.00	17.88	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) - Pre-amplifier (dB)

Level = Reading Level + AF + Factor -95.26

Margin = Limit – Level



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For report SUCR240400008902:

Test Band = SA Band 41_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.2	34.14	-41.47	33.20	-69.39	-25.00	44.39	Horizontal
2	7503.3	32.31	-37.78	36.60	-64.12	-25.00	39.12	Horizontal
3	10004.4	29.14	-32.40	37.90	-60.62	-25.00	35.62	Horizontal
4	12505.5	30.01	-29.90	39.01	-56.14	-25.00	31.14	Horizontal
5	15006.6	29.03	-28.27	40.09	-54.41	-25.00	29.41	Horizontal
6	17507.7	26.83	-24.37	40.12	-52.69	-25.00	27.69	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.2	34.54	-41.47	33.20	-68.99	-25.00	43.99	Vertical
2	7503.3	32.75	-37.78	36.60	-63.68	-25.00	38.68	Vertical
3	10004.4	29.85	-32.40	37.90	-59.91	-25.00	34.91	Vertical
4	12505.5	29.13	-29.90	39.01	-57.02	-25.00	32.02	Vertical
5	15006.6	28.74	-28.27	40.09	-54.70	-25.00	29.70	Vertical
6	17507.7	26.68	-24.37	40.12	-52.84	-25.00	27.84	Vertical



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Test Band = SA Band 41_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5096.16	33.70	-41.29	33.18	-69.67	-25.00	44.67	Horizontal
2	7644.24	33.10	-37.55	36.74	-62.97	-25.00	37.97	Horizontal
3	10192.32	30.93	-32.05	38.00	-58.39	-25.00	33.39	Horizontal
4	12740.4	30.08	-29.78	39.29	-55.67	-25.00	30.67	Horizontal
5	15288.48	27.83	-27.69	39.55	-55.57	-25.00	30.57	Horizontal
6	17836.56	27.96	-24.09	40.91	-50.48	-25.00	25.48	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5096.16	34.97	-41.29	33.18	-68.40	-25.00	43.40	Vertical
2	7644.24	32.38	-37.55	36.74	-63.69	-25.00	38.69	Vertical
3	10192.32	30.65	-32.05	38.00	-58.67	-25.00	33.67	Vertical
4	12740.4	29.58	-29.78	39.29	-56.17	-25.00	31.17	Vertical
5	15288.48	27.63	-27.69	39.55	-55.77	-25.00	30.77	Vertical
6	17836.56	27.41	-24.09	40.91	-51.03	-25.00	26.03	Vertical



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Test Band = SA Band 41_ TM1
Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5190.18	34.10	-40.85	33.16	-68.85	-25.00	43.85	Horizontal
2	7785.27	33.55	-36.85	36.89	-61.68	-25.00	36.68	Horizontal
3	10380.36	29.33	-31.60	38.09	-59.44	-25.00	34.44	Horizontal
4	12975.45	30.03	-29.62	39.57	-55.28	-25.00	30.28	Horizontal
5	15570.54	28.58	-27.68	39.02	-55.34	-25.00	30.34	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5190.18	34.16	-40.85	33.16	-68.79	-25.00	43.79	Vertical
2	7785.27	33.55	-36.85	36.89	-61.68	-25.00	36.68	Vertical
3	10380.36	28.85	-31.60	38.09	-59.92	-25.00	34.92	Vertical
4	12975.45	29.24	-29.62	39.57	-56.07	-25.00	31.07	Vertical
5	15570.54	28.46	-27.68	39.02	-55.46	-25.00	30.46	Vertical



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Test Band = UL MIMO SA Band 41_ TM1

Test Channel = Low Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.2	33.77	-41.47	33.20	-69.76	-25.00	44.76	Horizontal
2	7503.3	32.80	-37.78	36.60	-63.63	-25.00	38.63	Horizontal
3	10004.4	29.38	-32.40	37.90	-60.38	-25.00	35.38	Horizontal
4	12505.5	28.56	-29.90	39.01	-57.59	-25.00	32.59	Horizontal
5	15006.6	28.94	-28.27	40.09	-54.50	-25.00	29.50	Horizontal
6	17507.7	27.05	-24.37	40.12	-52.47	-25.00	27.47	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5002.2	33.52	-41.47	33.20	-70.01	-25.00	45.01	Vertical
2	7503.3	32.26	-37.78	36.60	-64.17	-25.00	39.17	Vertical
3	10004.4	28.61	-32.40	37.90	-61.15	-25.00	36.15	Vertical
4	12505.5	28.29	-29.90	39.01	-57.86	-25.00	32.86	Vertical
5	15006.6	29.85	-28.27	40.09	-53.59	-25.00	28.59	Vertical
6	17507.7	26.94	-24.37	40.12	-52.58	-25.00	27.58	Vertical



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Test Band = UL MIMO SA Band 41_ TM1

Test Channel = Mid Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5096.16	33.15	-41.29	33.18	-70.22	-25.00	45.22	Horizontal
2	7644.24	32.20	-37.55	36.74	-63.87	-25.00	38.87	Horizontal
3	10192.32	30.69	-32.05	38.00	-58.63	-25.00	33.63	Horizontal
4	12740.4	29.71	-29.78	39.29	-56.04	-25.00	31.04	Horizontal
5	15288.48	28.29	-27.69	39.55	-55.11	-25.00	30.11	Horizontal
6	17836.56	28.06	-24.09	40.91	-50.38	-25.00	25.38	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	5088	35.91	-41.30	33.18	-67.47	-25.00	42.47	Vertical
2	7644.24	31.95	-37.55	36.74	-64.12	-25.00	39.12	Vertical
3	10192.32	30.21	-32.05	38.00	-59.11	-25.00	34.11	Vertical
4	12740.4	29.38	-29.78	39.29	-56.37	-25.00	31.37	Vertical
5	15288.48	27.75	-27.69	39.55	-55.65	-25.00	30.65	Vertical
6	17836.56	27.64	-24.09	40.91	-50.80	-25.00	25.80	Vertical



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Test Band = UL MIMO SA Band 41_ TM1

Test Channel = High Channel

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3954.5	34.84	-42.78	31.15	-72.06	-25.00	47.06	Horizontal
2	5190.18	33.82	-40.85	33.16	-69.13	-25.00	44.13	Horizontal
3	7785.27	32.99	-36.85	36.89	-62.24	-25.00	37.24	Horizontal
4	10380.36	29.67	-31.60	38.09	-59.10	-25.00	34.10	Horizontal
5	12975.45	29.56	-29.62	39.57	-55.75	-25.00	30.75	Horizontal
6	15570.54	28.22	-27.68	39.02	-55.70	-25.00	30.70	Horizontal

Final Data List								
NO.	Frequency [MHz]	Reading [dBμV]	Factor [dB]	AF[dB/m]	Level [dBm]	Limit [dBm]	Margin [dB]	Polarity
1	3927.5	34.10	-42.80	31.05	-72.91	-25.00	47.91	Vertical
2	5190.18	33.50	-40.85	33.16	-69.45	-25.00	44.45	Vertical
3	7785.27	32.23	-36.85	36.89	-63.00	-25.00	38.00	Vertical
4	10380.36	28.87	-31.60	38.09	-59.90	-25.00	34.90	Vertical
5	12975.45	30.24	-29.62	39.57	-55.07	-25.00	30.07	Vertical
6	15570.54	28.31	-27.68	39.02	-55.61	-25.00	30.61	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
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VH	NT	-5.000000	-0.001928	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VN	NT	-5.800000	-0.002237	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	VL	NT	2.000000	0.000771	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VH	NT	3.300000	0.001273	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VN	NT	-7.700000	-0.002970	PASS
N41	30	100	CP-QPSK	M	Outer_Full	VL	NT	-1.700000	-0.000656	PASS



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Frequency Error VS. Temperature

Temperature										
Band	SCS	Bandwidth	Modulation	Channel	RB Config	Voltage	Temperature	Deviation(Hz)	Deviation (ppm)	Verdict
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	50	-4.900000	-0.001890	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-20	-6.500000	-0.002507	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	0.200000	0.000077	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	10	3.200000	0.001234	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	20	-4.600000	-0.001774	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	30	3.400000	0.001311	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	-30	-2.900000	-0.001118	PASS
N41	30	100	DFT-PI2BPSK	M	Outer_Full	NV	40	-0.100000	-0.000039	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	50	1.300000	0.000501	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-20	1.700000	0.000656	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-10	6.100000	0.002352	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	0	-4.000000	-0.001543	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	10	0.500000	0.000193	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	20	-1.200000	-0.000463	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	30	2.400000	0.000926	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	40	0.200000	0.000077	PASS
N41	30	100	CP-QPSK	M	Outer_Full	NV	-30	-2.700000	-0.001041	PASS

---End of Attachment---



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