



Plot 7-338. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM QPSK - Full RB - Ant F)



Plot 7-339. PAR Plot (NR Band n25/2 - 10.0MHz CP-OFDM 256-QAM - Full RB - Ant F)

FCC ID: A3LSMS916U		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 196 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 190 01 230





Plot 7-340. PAR Plot (NR Band n25/2 - 5.0MHz DFT-s-OFDM BPSK - Full RB - Ant F)



Plot 7-341. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM QPSK - Full RB - Ant F)

FCC ID: A3LSMS916U		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 197 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 197 01 230





Plot 7-342. PAR Plot (NR Band n25/2 - 5.0MHz CP-OFDM 256-QAM - Full RB - Ant F)

FCC ID: A3LSMS916U		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 198 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 190 01 230



7.7 Radiated Power (EIRP)

Test Overview

Equivalent Isotropic Radiated Power (EIRP) measurements are performed using the substitution method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS average measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

<u>Test Procedures Used</u>

ANSI C63.26-2015 - Section 5.2.4.4

Test Settings

- 1. Radiated power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation. For signals with burst transmission, the signal analyzer's "time domain power" measurement capability is used
- 2. RBW = 1 5% of the expected OBW, not to exceed 1MHz
- 3. VBW ≥ 3 x RBW
- 4. Span = 1.5 times the OBW
- 5. No. of sweep points > 2 x span / RBW
- 6. Detector = RMS
- 7. Trigger is set to "free run" for signals with continuous operation with the sweep times set to "auto". Trigger is set to enable triggering only on full power bursts with the sweep time set less than or equal to the transmission burst duration.
- 8. The integration bandwidth was roughly set equal to the measured OBW of the signal for signals with continuous operation. For signals with burst transmission, the "gating" function was enabled to ensure that measurements are performed during times in which the transmitter is operating at its maximum power.
- 9. Trace mode = trace averaging (RMS) over 100 sweeps
- 10. The trace was allowed to stabilize.

FCC ID: A3LSMS916U		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 199 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 199 01 230



Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

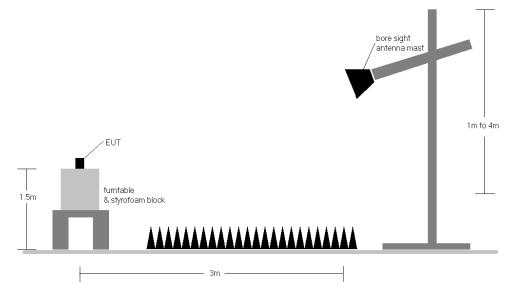


Figure 7-6. Radiated Test Setup >1GHz

Test Notes

- 1) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 2) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 3) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 4) This unit was tested with its standard battery.
- 5) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.

FCC ID: A3LSMS916U		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 200 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Faye 200 01 230	



Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
Z	QPSK	1860.00	Н	190	180	9.55	1 / 0	13.77	23.32	0.215	33.01	-9.69
MHz	QPSK	1882.50	Н	180	184	9.83	1 / 99	13.75	23.58	0.228	33.01	-9.43
20 F	QPSK	1905.00	Н	182	185	10.16	1/0	12.86	23.02	0.200	33.01	-9.99
2	16-QAM	1882.50	Н	180	184	9.83	1 / 99	12.96	22.79	0.190	33.01	-10.22
Z	QPSK	1857.50	Н	190	180	9.51	1 / 37	13.84	23.35	0.216	33.01	-9.66
MHz	QPSK	1882.50	Н	180	184	9.83	1 / 37	13.74	23.58	0.228	33.01	-9.43
15 1	QPSK	1907.50	Н	182	185	10.21	1 / 37	12.70	22.90	0.195	33.01	-10.11
1	16-QAM	1882.50	Н	180	184	9.83	1 / 37	12.98	22.81	0.191	33.01	-10.20
Z	QPSK	1855.00	Н	190	180	9.48	1/0	14.04	23.52	0.225	33.01	-9.49
픟	QPSK	1882.50	Н	180	184	9.83	1 / 25	13.80	23.63	0.231	33.01	-9.38
10 MHz	QPSK	1910.00	Н	182	185	10.25	1 / 25	12.83	23.08	0.203	33.01	-9.93
1	16-QAM	1855.00	Н	190	180	9.48	1/0	13.49	22.97	0.198	33.01	-10.05
N	QPSK	1852.50	Н	190	180	9.44	1 / 12	14.20	23.64	0.231	33.01	-9.37
堂	QPSK	1882.50	Н	180	184	9.83	1 / 0	13.86	23.70	0.234	33.01	-9.31
5 MHz	QPSK	1912.50	Н	182	185	10.28	1 / 12	12.79	23.07	0.203	33.01	-9.94
	16-QAM	1882.50	Н	180	184	9.83	1/0	13.24	23.08	0.203	33.01	-9.93
N	QPSK	1851.50	Н	190	180	9.43	1 / 7	14.12	23.55	0.226	33.01	-9.46
3 MHz	QPSK	1882.50	Н	180	184	9.83	1 / 7	13.75	23.59	0.228	33.01	-9.42
3 ≥	QPSK	1913.50	Н	182	185	10.29	1 / 7	12.82	23.10	0.204	33.01	-9.91
**/	16-QAM	1882.50	Н	180	184	9.83	1 / 7	13.45	23.28	0.213	33.01	-9.73
Z	QPSK	1850.70	Н	190	180	9.42	1/3	13.96	23.38	0.218	33.01	-9.63
MHz	QPSK	1882.50	Н	180	184	9.83	1/3	13.69	23.52	0.225	33.01	-9.49
4.	QPSK	1914.30	Н	182	185	10.30	1/5	12.77	23.07	0.203	33.01	-9.94
-7-	16-QAM	1882.50	Н	180	184	9.83	1/3	13.03	22.86	0.193	33.01	-10.15
20 MHz	Opposite Pol.	1882.50	V	138	334	9.99	1 / 50	13.40	23.39	0.218	33.01	-9.62
20 IVIH2	WCP	1882.50	Н	233	182	9.83	1 / 99	12.01	21.84	0.153	33.01	-11.17

Table 7-11. EIRP Data (LTE Band 25/2 - Ant A)

FCC ID: A3LSMS916U		PART 24 MEASUREMENT REPORT	Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 201 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	raye 201 01 230



Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
	π/2 BPSK	1870.00	Н	153	199	9.66	1 / 108	13.22	22.88	0.194	33.01	-10.13
	π/2 BPSK	1882.50	Н	150	201	9.83	1 / 54	13.21	23.04	0.202	33.01	-9.97
	π/2 BPSK	1895.00	Н	146	201	10.01	1 / 54	13.22	23.23	0.210	33.01	-9.78
40 MHz	QPSK	1870.00	Н	153	199	9.66	1 / 108	13.09	22.75	0.189	33.01	-10.26
	QPSK	1882.50	Н	150	201	9.83	1 / 54	13.20	23.03	0.201	33.01	-9.98
	QPSK	1895.00	Н	146	201	10.01	1 / 54	13.23	23.24	0.211	33.01	-9.77
	16-QAM	1895.00	Н	146	201	10.01	1 / 54	12.25	22.26	0.168	33.01	-10.75
	π/2 BPSK	1865.00	Н	153	199	9.61	1 / 40	13.37	22.97	0.198	33.01	-10.04
	π/2 BPSK	1882.50	Н	150	201	9.83	1 / 40	13.23	23.06	0.202	33.01	-9.95
	π/2 BPSK	1900.00	Н	146	201	10.07	1 / 40	13.16	23.23	0.210	33.01	-9.78
30 MHz	QPSK	1865.00	Н	153	199	9.61	1 / 40	13.29	22.89	0.195	33.01	-10.12
	QPSK	1882.50	Н	150	201	9.83	1 / 40	13.07	22.91	0.195	33.01	-10.10
	QPSK	1900.00	Н	146	201	10.07	1 / 40	13.14	23.21	0.209	33.01	-9.80
	16-QAM	1882.50	Н	150	201	9.83	1 / 40	12.31	22.14	0.164	33.01	-10.87
	π/2 BPSK	1862.50	Н	153	199	9.58	1 / 33	13.58	23.16	0.207	33.01	-9.85
	π/2 BPSK	1882.50	Н	150	201	9.83	1 / 33	13.33	23.16	0.207	33.01	-9.85
	π/2 BPSK	1902.50	Н	146	201	10.11	1 / 33	13.16	23.27	0.212	33.01	-9.74
25 MHz	QPSK	1862.50	Н	153	199	9.58	1 / 33	13.36	22.94	0.197	33.01	-10.07
	QPSK	1882.50	Н	150	201	9.83	1 / 33	13.26	23.09	0.204	33.01	-9.92
	QPSK	1902.50	Н	146	201	10.11	1 / 33	13.31	23.43	0.220	33.01	-9.58
	16-QAM	1902.50	Н	146	201	10.11	1 / 33	12.30	22.41	0.174	33.01	-10.60
	π/2 BPSK	1860.00	Н	153	199	9.55	1 / 79	13.37	22.92	0.196	33.01	-10.09
	π/2 BPSK	1882.50	Н	150	201	9.83	1 / 53	13.35	23.18	0.208	33.01	-9.83
	π/2 BPSK	1905.00	Н	146	201	10.16	1 / 26	13.16	23.32	0.215	33.01	-9.69
20 MHz	QPSK	1860.00	Н	153	199	9.55	1 / 79	13.22	22.76	0.189	33.01	-10.25
	QPSK	1882.50	Н	150	201	9.83	1 / 53	13.20	23.03	0.201	33.01	-9.98
	QPSK	1905.00	Н	146	201	10.16	1 / 26	13.40	23.56	0.227	33.01	-9.46
	16-QAM	1882.50	Н	150	201	9.83	1 / 53	12.35	22.18	0.165	33.01	-10.83
	π/2 BPSK	1857.50	Н	153	199	9.51	1 / 39	13.62	23.13	0.206	33.01	-9.88
	π/2 BPSK	1882.50	Н	150	201	9.83	1 / 58	13.32	23.15	0.207	33.01	-9.86
	π/2 BPSK	1907.50	Н	146	201	10.21	1 / 20	13.17	23.38	0.218	33.01	-9.63
15 MHz	QPSK	1857.50	Н	153	199	9.51	1 / 39	13.34	22.86	0.193	33.01	-10.15
	QPSK	1882.50	Н	150	201	9.83	1 / 58	13.30	23.14	0.206	33.01	-9.87
	QPSK	1907.50	Н	146	201	10.21	1 / 20	13.12	23.33	0.215	33.01	-9.68
	16-QAM	1882.50	Н	150	201	9.83	1 / 58	12.48	22.32	0.170	33.01	-10.70
	π/2 BPSK	1855.00	Н	153	199	9.48	1 / 13	13.49	22.96	0.198	33.01	-10.05
	π/2 BPSK	1882.50	Н	150	201	9.83	1 / 26	13.31	23.15	0.206	33.01	-9.86
	π/2 BPSK	1910.00	Н	146	201	10.25	1 / 38	13.08	23.33	0.215	33.01	-9.68
10 MHz	QPSK	1855.00	Н	153	199	9.48	1 / 13	13.39	22.86	0.193	33.01	-10.15
	QPSK	1882.50	Н	150	201	9.83	1 / 26	13.02	22.85	0.193	33.01	-10.16
	QPSK	1910.00	Н	146	201	10.25	1 / 38	13.29	23.55	0.226	33.01	-9.46
	16-QAM	1910.00	Н	146	201	10.25	1 / 38	11.89	22.14	0.164	33.01	-10.87
	π/2 BPSK	1852.50	Н	153	199	9.44	1/6	13.56	23.00	0.200	33.01	-10.01
	π/2 BPSK	1882.50	Н	150	201	9.83	1/6	13.21	23.05	0.202	33.01	-9.96
	π/2 BPSK	1912.50	Н	146	201	10.28	1 / 12	12.97	23.25	0.211	33.01	-9.76
5 MHz	QPSK	1852.50	Н	153	199	9.44	1/6	13.36	22.80	0.191	33.01	-10.21
	QPSK	1882.50	Н	150	201	9.83	1/6	13.14	22.97	0.198	33.01	-10.04
	QPSK	1912.50	Н	146	201	10.28	1 / 12	13.06	23.34	0.216	33.01	-9.67
	16-QAM	1912.50	Н	146	201	10.28	1 / 12	12.09	22.37	0.172	33.01	-10.64
40.000	QPSK (CP-OFDM)	1895.00	Н	146	201	10.01	1/54	11.52	21.53	0.142	33.01	-11.48
40 MHz	QPSK (Opposite Pol.)	1895.00	V	130	208	10.12	1/54	12.45	22.57	0.181	33.01	-10.44
	QPSK (WCP)	1895.00	Н	146	201	10.01	1/54	11.88	21.89	0.154	33.01	-11.12

Table 7-12. EIRP Data (NR Band n25/2 - Ant A)

FCC ID: A3LSMS916U		PART 24 MEASUREMENT REPORT				
Test Report S/N:	Test Dates:	EUT Type:	Page 202 of 236			
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 202 01 236			



Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1850.20	GPRS1900	Н	156	176	16.88	9.41	26.29	0.426	33.01	-6.72
1880.00	GPRS1900	Н	153	178	17.26	9.79	27.05	0.508	33.01	-5.96
1909.80	GPRS1900	Н	146	180	17.29	10.25	27.54	0.567	33.01	-5.47
1909.80	GPRS1900	V	156	223	16.83	10.20	27.03	0.505	33.01	-5.98
1909.80	EDGE1900	Н	182	188	12.84	10.25	23.09	0.204	33.01	-9.92
1909.80	GPRS1900 (WCP)	Н	179	182	17.06	10.25	27.31	0.538	33.01	-5.70

Table 7-13. EIRP Data (GPRS PCS)

Frequency [MHz]	Mode	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1852.40	WCDMA1900	Н	123	199	11.77	9.44	21.21	0.132	33.01	-11.80
1880.00	WCDMA1900	Н	110	26	11.96	9.79	21.75	0.150	33.01	-11.26
1907.60	WCDMA1900	Н	103	3	11.22	10.21	21.43	0.139	33.01	-11.58
1880.00	WCDMA1900	٧	159	130	8.54	9.79	18.33	0.068	33.01	-14.68
1880.00	WCDMA1900 (WCP)	Н	143	207	12.82	9.79	22.61	0.183	33.01	-10.40

Table 7-14. EIRP Data (WCDMA PCS)

ZHW QPSK QPSK QPSK 16-QAM QPSK QPSK QPSK QPSK QPSK QPSK QPSK QPSK	1860.00 1882.50 1905.00 1882.50	V	159								[dB]
16-QAM QPSK QPSK QPSK QPSK 16-QAM QPSK QPSK QPSK QPSK QPSK	1905.00	1/		315	9.68	1/0	10.66	20.34	0.108	33.01	-12.67
16-QAM QPSK QPSK QPSK QPSK 16-QAM QPSK QPSK QPSK QPSK QPSK		V	120	318	9.99	1 / 50	11.14	21.13	0.130	33.01	-11.88
16-QAM 21	1882 50	V	149	343	10.18	1 / 50	10.25	20.43	0.110	33.01	-12.58
TH QPSK QPSK QPSK 16-QAM QPSK QPSK QPSK QPSK QPSK	1002.00	V	120	318	9.99	1 / 50	10.36	20.35	0.108	33.01	-12.66
16-QAM 16-QAM QPSK QPSK QPSK QPSK QPSK	1857.50	V	159	315	9.66	1 / 74	10.84	20.50	0.112	33.01	-12.51
16-QAM 16-QAM QPSK QPSK QPSK QPSK QPSK	1882.50	V	120	318	9.99	1 / 37	11.23	21.22	0.132	33.01	-11.79
16-QAM	1907.50	V	149	343	10.19	1 / 37	10.25	20.44	0.111	33.01	-12.57
QPSK QPSK	1882.50	V	120	318	9.99	1 / 37	10.46	20.45	0.111	33.01	-12.56
QPSK QPSK	1855.00	V	159	315	9.64	1 / 49	10.99	20.63	0.116	33.01	-12.38
QPSK	1882.50	٧	120	318	9.99	1 / 25	11.42	21.41	0.138	33.01	-11.60
	1910.00	٧	149	343	10.20	1/0	10.46	20.66	0.116	33.01	-12.35
16-QAM	1882.50	V	120	318	9.99	1 / 25	11.01	20.99	0.126	33.01	-12.02
QPSK	1852.50	٧	159	315	9.63	1/0	11.04	20.67	0.117	33.01	-12.34
QPSK	1882.50	V	120	318	9.99	1/0	11.36	21.34	0.136	33.01	-11.67
HW QPSK QPSK	1912.50	V	149	343	10.21	1 / 12	10.33	20.54	0.113	33.01	-12.47
16-QAM	1882.50	V	120	318	9.99	1/0	10.66	20.65	0.116	33.01	-12.36
QPSK	1851.50	V	159	315	9.62	1/0	11.06	20.68	0.117	33.01	-12.33
₽ QPSK	1882.50	V	120	318	9.99	1 / 14	11.39	21.37	0.137	33.01	-11.64
HW QPSK QPSK	1913.50	V	149	343	10.21	1/7	10.53	20.74	0.119	33.01	-12.27
16-QAM	1882.50	V	120	318	9.99	1 / 14	10.84	20.83	0.121	33.01	-12.18
Ņ QPSK	1850.70	V	159	315	9.61	1/0	10.92	20.54	0.113	33.01	-12.47
QPSK QPSK	1882.50	V	120	318	9.99	1/0	11.35	21.34	0.136	33.01	-11.67
4. Obsk A Obsk Dbsk Obsk	1914.30	V	149	343	10.21	1/3	10.28	20.49	0.112	33.01	-12.52
16-QAM	1882.50	V	120	318	9.99	1/0	10.72	20.70	0.118	33.01	-12.31
20 MHz Opposite Pol.											
20 WIHZ WCP	1882.50	Н	172	354	9.83	1 / 99	11.03	20.86	0.122	33.01	-12.15

Table 7-15. EIRP Data (LTE Band 25/2 – Ant F)

FCC ID: A3LSMS916U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 203 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset		



Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
	π/2 BPSK	1870.00	V	116	325	9.75	1 / 54	14.76	24.51	0.283	33.01	-8.50
	π/2 BPSK	1882.50	V	112	325	9.99	1 / 108	14.45	24.44	0.278	33.01	-8.57
	π/2 BPSK	1895.00	V	113	330	10.12	1 / 54	14.41	24.53	0.284	33.01	-8.48
40 MHz	QPSK	1870.00	V	116	325	9.75	1 / 54	14.68	24.43	0.278	33.01	-8.58
	QPSK	1882.50	V	112	325	9.99	1 / 108	14.56	24.55	0.285	33.01	-8.46
	QPSK	1895.00	V	113	330	10.12	1 / 54	14.39	24.51	0.282	33.01	-8.50
	16-QAM	1882.50	V	112	325	9.99	1 / 108	13.64	23.63	0.231	33.01	-9.38
	π/2 BPSK	1865.00	V	116	325	9.72	1 / 119	14.70	24.42	0.276	33.01	-8.59
	π/2 BPSK	1882.50	V	112	325	9.99	1 / 119	14.55	24.54	0.284	33.01	-8.47
	π/2 BPSK	1900.00	V	113	330	10.16	1 / 80	14.38	24.54	0.284	33.01	-8.47
30 MHz	QPSK	1865.00	V	116	325	9.72	1 / 119	14.80	24.52	0.283	33.01	-8.49
	QPSK	1882.50	V	112	325	9.99	1 / 119	14.60	24.59	0.288	33.01	-8.42
	QPSK	1900.00	V	113	330	10.16	1 / 80	14.26	24.43	0.277	33.01	-8.58
	16-QAM	1882.50	V	112	325	9.99	1 / 119	13.72	23.71	0.235	33.01	-9.30
	π/2 BPSK	1862.50	V	116	325	9.70	1 / 33	14.59	24.28	0.268	33.01	-8.73
	π/2 BPSK	1882.50	V	112	325	9.99	1 / 33	14.11	24.10	0.257	33.01	-8.91
	π/2 BPSK	1902.50	V	113	330	10.17	1 / 99	14.08	24.26	0.266	33.01	-8.75
25 MHz	QPSK	1862.50	V	116	325	9.70	1 / 33	14.62	24.31	0.270	33.01	-8.70
	QPSK	1882.50	V	112	325	9.99	1 / 33	14.39	24.38	0.274	33.01	-8.63
	QPSK	1902.50	V	113	330	10.17	1 / 99	14.08	24.25	0.266	33.01	-8.76
	16-QAM	1862.50	V	116	325	9.70	1 / 33	13.55	23.24	0.211	33.01	-9.77
	π/2 BPSK	1860.00	V	116	325	9.68	1 / 79	14.58	24.26	0.267	33.01	-8.75
	π/2 BPSK	1882.50	V	112	325	9.99	1 / 53	14.16	24.15	0.260	33.01	-8.86
20 MHz	π/2 BPSK	1905.00	V	113	330	10.18	1 / 53	14.10	24.28	0.268	33.01	-8.73
	QPSK	1860.00	V	116	325	9.68	1 / 79	14.59	24.27	0.267	33.01	-8.74
	QPSK	1882.50	V	112	325	9.99	1 / 53	14.32	24.31	0.269	33.01	-8.70
	QPSK	1905.00	V	113	330	10.18	1 / 53	14.01	24.20	0.263	33.01	-8.81
	16-QAM	1860.00	V	116	325	9.68	1 / 79	13.59	23.27	0.212	33.01	-9.74
	π/2 BPSK	1857.50	V	116	325	9.66	1 / 20	14.68	24.33	0.271	33.01	-8.68
	π/2 BPSK	1882.50	V	112	325	9.99	1 / 58	14.23	24.22	0.264	33.01	-8.80
	π/2 BPSK	1907.50	V	113	330	10.19	1 / 39	14.07	24.26	0.267	33.01	-8.75
15 MHz	QPSK	1857.50	V	116	325	9.66	79 / 0	14.60	24.26	0.267	33.01	-8.75
	QPSK	1882.50	V	112	325	9.99	1 / 58	14.59	24.58	0.287	33.01	-8.44
	QPSK	1907.50	V	113	330	10.19	1 / 39	14.24	24.43	0.277	33.01	-8.58
	16-QAM	1882.50	V	112	325	9.99	1 / 58	13.39	23.37	0.217	33.01	-9.64
	π/2 BPSK	1855.00	V	116	325	9.64	1 / 38	14.66	24.30	0.269	33.01	-8.71
	π/2 BPSK	1882.50	V	112	325	9.99	1 / 13	14.26	24.25	0.266	33.01	-8.76
	π/2 BPSK	1910.00	V	113	330	10.20	1 / 38	14.24	24.44	0.278	33.01	-8.57
10 MHz	QPSK	1855.00	V	116	325	9.64	1 / 38	14.75	24.39	0.275	33.01	-8.62
	QPSK	1882.50	V	112	325	9.99	1 / 13	14.65	24.64	0.291	33.01	-8.37
	QPSK	1910.00	V	113	330	10.20	1 / 38	14.12	24.32	0.270	33.01	-8.69
	16-QAM	1882.50	V	112	325	9.99	1 / 13	13.45	23.43	0.220	33.01	-9.58
	π/2 BPSK	1852.50	V	116	325	9.63	1/6	14.65	24.28	0.268	33.01	-8.73
	π/2 BPSK	1882.50	V	112	325	9.99	1 / 18	14.23	24.21	0.264	33.01	-8.80
	π/2 BPSK	1912.50	V	113	330	10.21	1 / 12	14.25	24.45	0.279	33.01	-8.56
5 MHz	QPSK	1852.50	V	116	325	9.63	1/6	14.64	24.27	0.267	33.01	-8.74
	QPSK	1882.50	V	112	325	9.99	1 / 18	14.36	24.35	0.272	33.01	-8.66
	QPSK	1912.50	V	113	330	10.21	1 / 12	14.18	24.39	0.275	33.01	-8.62
	16-QAM	1852.50	V	116	325	9.63	1/6	13.80	23.42	0.220	33.01	-9.59
	QPSK (CP-OFDM)	1882.50	V	112	325	9.99	1 / 108	13.15	23.14	0.206	33.01	-9.87
40 MHz	QPSK (Opposite Pol.)	1882.50	Н	151	179	9.83	1 / 54	12.57	22.40	0.174	33.01	-10.61
	QPSK (WCP)	1882.50	V	105	320	9.99	1 / 108	12.68	22.67	0.185	33.01	-10.34

Table 7-16. EIRP Data (NR Band n25/2 - Ant F)

FCC ID: A3LSMS916U		PART 24 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 204 of 236		
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 204 01 230		



7.8 Radiated Spurious Emissions Measurements

Test Overview

Radiated spurious emissions measurements are performed using the field strength conversion method described in ANSI C63.26-2015 with the EUT transmitting into an integral antenna. Measurements on signals operating below 1GHz are performed using hybrid (biconical/log) antennas. Measurements on signals operating above 1GHz are performed using vertically and horizontally polarized broadband horn antennas. All measurements are performed as RMS measurements while the EUT is operating at maximum power, and at the appropriate frequencies.

Test Procedures Used

ANSI C63.26-2015 - Section 5.5.4

Test Settings

- 1. RBW = 100kHz for emissions below 1GHz and 1MHz for emissions above 1GHz
- 2. VBW ≥ 3 x RBW
- 3. Span = 1.5 times the OBW
- 4. No. of sweep points ≥ 2 x span / RBW
- 5. Detector = RMS
- 6. Trace mode = Average (Max Hold for pulsed emissions)
- 7. The trace was allowed to stabilize

FCC ID: A3LSMS916U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 205 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 205 01 256



Test Setup

The EUT and measurement equipment were set up as shown in the diagram below.

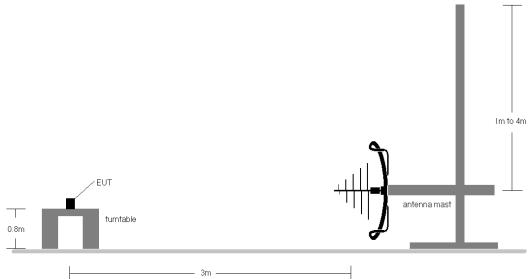


Figure 7-7. Test Instrument & Measurement Setup < 1GHz

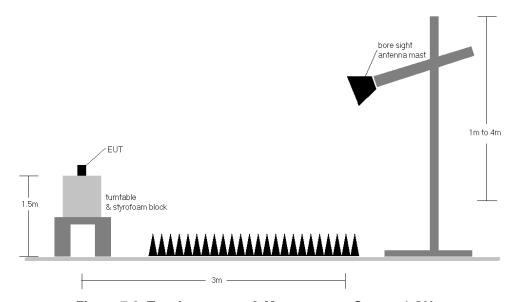


Figure 7-8. Test Instrument & Measurement Setup >1 GHz

FCC ID: A3LSMS916U		PART 24 MEASUREMENT REPORT		
Test Report S/N:	Test Dates:	EUT Type:	Page 206 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 200 01 230	



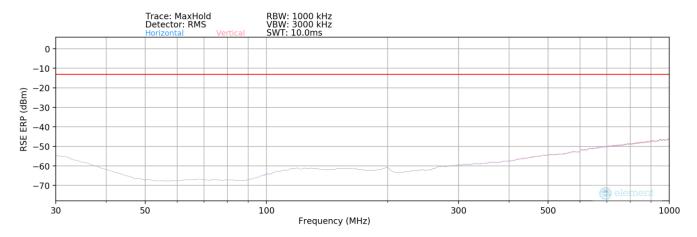
Test Notes

- Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
 - a) E(dBµV/m) = Measured amplitude level (dBm) + 107 + Cable Loss (dB) + Antenna Factor (dB/m)
 - b) EIRP (dBm) = $E(dB\mu V/m) + 20logD 104.8$; where D is the measurement distance in meters.
- 2) This device employs GSM, GPRS, and EDGE capabilities. The EUT was tested under all configurations and the highest powers are reported in GPRS mode while transmitting with one slot active.
- 3) This device employs UMTS technology with WCDMA (AMR/RMC) and HSDPA capabilities. The EUT was tested under all configurations and the highest powers are reported in WCDMA mode with HSDPA Inactive at 12.2 kbps RMC and TPC bits all set to "1".
- 4) The EUT was tested in three orthogonal planes and in all possible test configurations and positioning. The worst-case emissions are reported with the EUT positioning, modulations, RB sizes and offsets, and channel bandwidth configurations shown in the tables below.
- 5) This unit was tested with its standard battery.
- 6) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 7) Emissions below 18GHz were measured at a 3-meter test distance while emissions above 18GHz were measured at a 1 meter test distance with the application of a distance correction factor.
- 8) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 9) For NR operation, all subcarrier spacings (SCS) and transmission schemes (e.g. CP-OFDM and DFT-s-OFDM) were investigated to determine the worst case configuration. All modes of operation were investigated and the worst-case configuration results are reported in this section.
- 10) Spurious emissions shown in this section are measured while operating in EN-DC mode with Sub 6GHz NR carrier as well as an LTE carrier (anchor). Spurious emissions from the NR carrier device are subject to the rules under which the NR carrier operates. Spurious emissions caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates.

FCC ID: A3LSMS916U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 207 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 207 01 230



LTE Band 25/2 - Ant A



Plot 7-343. Radiated Spurious Plot 30MHz-1GHz (LTE Band 25/2 - Ant A)

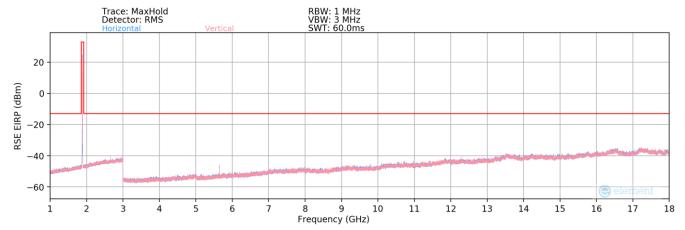
Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
913.00	Н	-	-	-89.11	31.75	49.64	-47.77	-13.00	-34.77

Table 7-17. Radiated Spurious Data 30MHz-1GHz (LTE Band 25/2 - Mid Channel - Ant A)

FCC ID: A3LSMS916U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 208 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset		





Plot 7-344. Radiated Spurious Plot 1-18GHz (LTE Band 25/2 - Ant A)

Bandwidth (MHz):	20
Frequency (MHz):	1860
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
′20.00	Н	-	-	-78.99	3.26	31.27	-63.99	-13.00	-50.99
580.00	Н	-	-	-78.67	5.44	33.77	-61.48	-13.00	-48.48
140.00	Н	-	-	-79.69	7.48	34.79	-60.46	-13.00	-47.46

Table 7-18. Radiated Spurious Data (LTE Band 25/2 - Low Channel - Ant A)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
' 65.00	Н	-	-	-78.72	3.15	31.43	-63.83	-13.00	-50.83
347.50	Н	-	-	-78.87	5.29	33.42	-61.84	-13.00	-48.84
530.00	Н	_	_	-80.02	7.59	34.57	-60.69	-13.00	-47.69

Table 7-19. Radiated Spurious Data (LTE Band 25/2 - Mid Channel - Ant A)

Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 50

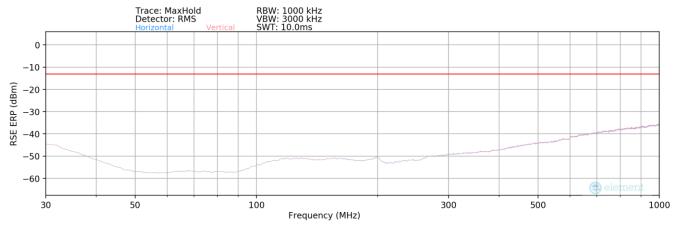
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
310.00	Н	-	-	-78.40	3.00	31.60	-63.66	-13.00	-50.66
′15.00	Н	-	-	-79.37	5.34	32.97	-62.29	-13.00	-49.29
320.00	Н	-	-	-80.11	7.99	34.88	-60.37	-13.00	-47.37

Table 7-20. Radiated Spurious Data (LTE Band 25/2 - High Channel - Ant A)

FCC ID: A3LSMS916U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 209 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Faye 209 01 230



NR Band n25/2 - Ant A



Plot 7-345. Radiated Spurious Plot 30MHz-1GHz (NR Band n25/2 - Ant A)

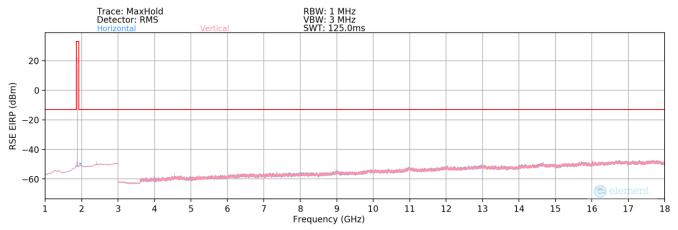
Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1/108
Mode:	Stand Alone
Anchor Band:	-

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
588.00	V	-	•	-83.64	26.97	50.33	-47.07	-13.00	-34.07

Table 7-21. Radiated Spurious Data 30MHz-1GHz (NR Band n25/2 - Mid Channel - Ant A)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT Approved b Technical Ma			
Test Report S/N:	Test Dates:	EUT Type:	Page 210 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Faye 210 01 230	





Plot 7-346. Radiated Spurious Plot 1-18GHz (NR Band n25/2 - Ant A)

Bandwidth (MHz):	40
Frequency (MHz):	1870
RB / Offset:	1 / 108
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
740.00	V	-	-	-78.79	3.26	31.47	-63.79	-13.00	-50.79
310.00	V	-	-	-78.87	5.38	33.51	-61.74	-13.00	-48.74
180.00	V	-	-	-80.06	7.37	34.31	-60.95	-13.00	-47.95

Table 7-22. Radiated Spurious Data (NR Band n25/2 - Low Channel - Ant A)

Bandwidth (MHz):	40
Frequency (MHz):	1882.5
RB / Offset:	1 / 108
Mode:	Stand Alone

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
' 65.00	V	383	268	-78.50	3.15	31.65	-63.61	-13.00	-50.61
347.50	V	-	1	-78.91	5.29	33.38	-61.88	-13.00	-48.88
530.00	V	-	-	-80.17	7.59	34.42	-60.84	-13.00	-47.84
112.50	V	-	-	-81.38	10.03	35.65	-59.61	-13.00	-46.61

Table 7-23. Radiated Spurious Data (NR Band n25/2 - Mid Channel - Ant A)

FCC ID: A3LSMS916U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 211 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 211 01 230	



Bandwidth (MHz):	40
Frequency (MHz):	1895
RB / Offset:	1 / 108
Mode:	Stand Alone

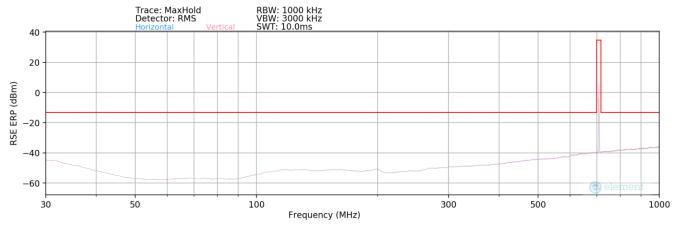
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
790.00	V	-	-	-78.40	3.11	31.71	-63.55	-13.00	-50.55
385.00	V	-	-	-78.92	5.53	33.61	-61.65	-13.00	-48.65
580.00	V	-	-	-80.29	8.01	34.72	-60.54	-13.00	-47.54

Table 7-24. Radiated Spurious Data (NR Band n25/2 - High Channel - Ant A)

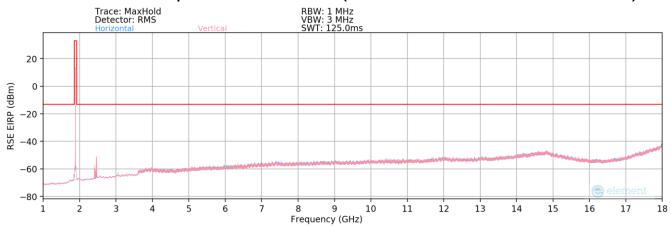
FCC ID: A3LSMS916U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 212 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 212 01 230	



EN-DC: NR Band n25/2 ANT A - LTE Band 12



Plot 7-347. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n25/2 ANT A - LTE Band 12)



Plot 7-348. Radiated Spurious Plot 1-18GHz (EN-DC: NR Band n25/2 ANT A – LTE Band 12)

Case:	N25/2 (ANT A) - B12
Bandwidth (MHz):	40 & 10
Frequency (MHz):	1882.5 & 707.5
RB / Offset:	1/108 & 1/25
Mode:	EN-DC
Anchor Band:	12

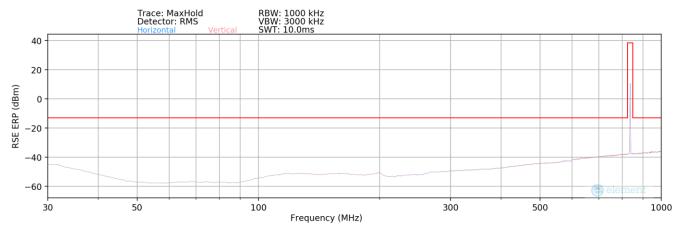
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
467.50	V	-	-	-95.76	25.31	36.55	-58.70	-13.00	-45.70
2476.30	V	392	333	-74.25	-5.85	26.90	-68.35	-12.00	-56.35
3245.00	Н	107	297	-73.91	-2.89	30.20	-65.06	-13.00	-52.06
4472.50	V	-	-	-75.20	-1.41	30.39	-64.87	-13.00	-51.87
5180.00	V	-	-	-75.03	-0.16	31.81	-63.45	-13.00	-50.45
6822.50	V	-	-	-75.08	2.98	34.90	-60.36	-13.00	-47.36

Table 7-25. Radiated Spurious Data (EN-DC: NR Band n25/2 ANT A - LTE Band 12)

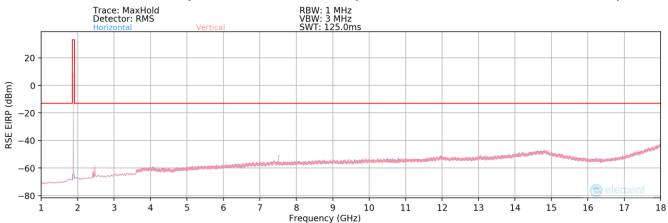
FCC ID: A3LSMS916U		PART 24 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 213 of 236		
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Page 213 of 236		



EN-DC: NR Band n2 ANT A - LTE Band 5



Plot 7-349. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n2 ANT A – LTE Band 5)



Plot 7-350. Radiated Spurious Plot 1-18GHz (EN-DC: NR Band n2 ANT A - LTE Band 5)

Case:	N2(Ant A)-B5
Bandwidth (MHz):	20&10
Frequency (MHz):	1880/836.5
RB / Offset:	1/53 & 1/25
Mode:	EN-DC
Anchor Band:	5

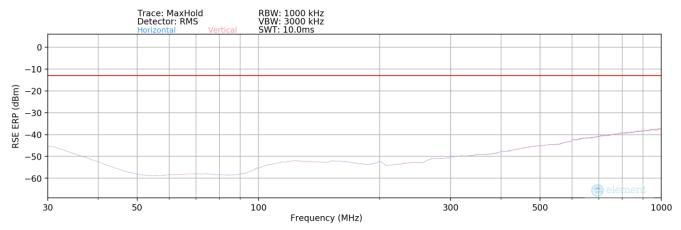
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
621.00	Н	-	-	-96.64	27.31	37.67	-57.59	-13.00	-44.59
2474.00	V	344	4	-75.10	-5.86	26.04	-69.21	-13.00	-56.21
3553.00	V	-	-	-74.21	-2.10	30.69	-64.57	-13.00	-51.57
4389.50	V	-	ı	-74.48	-2.05	30.47	-64.78	-13.00	-51.78
5226.00	V	-	ı	-74.96	-0.10	31.94	-63.32	-13.00	-50.32
7520.00	Н	107	96	-74.19	4.19	37.00	-58.25	-13.00	-45.25

Table 7-26. Radiated Spurious Data (EN-DC: NR Band n2 ANT A - LTE Band 5)

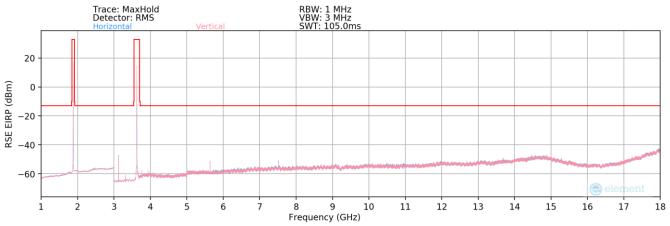
FCC ID: A3LSMS916U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 214 of 226	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Page 214 of 236	



EN-DC: NR Band n2 ANT A - LTE Band 48



Plot 7-351. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n2 ANT A - LTE Band 48)



Plot 7-352. Radiated Spurious Plot 1-18GHz (EN-DC: NR Band n2 ANT A - LTE Band 48)

Case:	n2 ANT A - B48
Bandwidth (MHz):	20 & 20
Frequency (MHz):	1880 & 3625
RB / Offset:	1 / 50 & 1/50
Mode:	EN-DC
Anchor Band:	B48

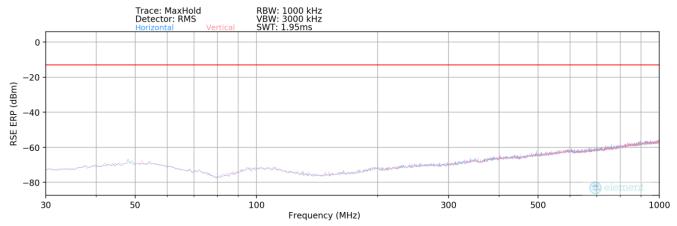
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
405.00	Н	-	-	-94.39	23.48	36.09	-59.17	-13.00	-46.17
3124.00	Н	107	359	-54.28	-3.34	49.38	-45.88	-13.00	-32.88
3490.00	Н	129	169	-67.53	-2.82	36.65	-58.60	-13.00	-45.60
3702.00	Н	286	309	-71.78	-2.32	32.90	-62.35	-13.00	-49.35
3759.00	Н	107	32	-69.15	-1.46	36.39	-58.87	-13.00	-45.87
3779.00	Н	107	285	-74.84	-1.14	31.02	-64.24	-13.00	-51.24
5640.00	Н	107	334	-64.21	0.87	43.66	-51.60	-13.00	-38.60

Table 7-27. Radiated Spurious Data (EN-DC: NR Band n2 ANT A - LTE Band 48)

FCC ID: A3LSMS916U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 215 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Page 215 01 236	



GPRS PCS



Plot 7-353. Radiated Spurious Plot 30MHz-1GHz (GPRS PCS)

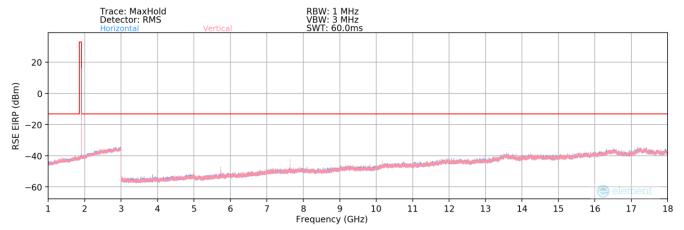
Mode:	GPRS 1 Tx Slot
Channel:	810
Frequency (MHz):	1909.8

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
	V	-	-	-70.40	-7.72	28.88	-68.53	-13.00	-55.53

Table 7-28. Radiated Spurious Data 30MHz-1GHz (GPRS PCS – Mid Channel)

FCC ID: A3LSMS916U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 216 of 226	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Page 216 of 236	





Plot 7-354. Radiated Spurious Plot 1-18GHz (GPRS PCS)

Mode:	GPRS 1 Tx Slot
Channel:	512
Frequency (MHz):	1850.2

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3700.40	V	-	-	-73.91	7.63	40.72	-54.53	-13.00	-41.53
5550.60	V	134	24	-69.50	11.37	48.87	-46.39	-13.00	-33.39
7400.80	V	103	123	-72.12	15.01	49.89	-45.37	-13.00	-32.37
9251.00	V	-	1	-76.06	17.39	48.33	-46.93	-13.00	-33.93
11101.20	V	-	ı	-78.34	20.48	49.14	-46.12	-13.00	-33.12
12951.40	V	-	-	-77.64	23.82	53.18	-42.08	-13.00	-29.08

Table 7-29. Radiated Spurious Data (GPRS PCS - Low Channel)

Mode:	GPRS 1 Tx Slot
Channel:	661
Frequency (MHz):	1880

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3760.00	V	-	-	-73.10	7.71	41.61	-53.64	-13.00	-40.64
5640.00	V	127	27	-67.74	11.34	50.60	-44.66	-13.00	-31.66
7520.00	V	143	66	-74.85	15.53	47.68	-47.57	-13.00	-34.57
9400.00	V	-	_	-77.12	17.71	47.59	-47.66	-13.00	-34.66
11280.00	V	-	-	-77.20	20.96	50.76	-44.49	-13.00	-31.49
13160.00	V	-	-	-78.06	23.65	52.59	-42.66	-13.00	-29.66

Table 7-30. Radiated Spurious Data (GPRS PCS - Mid Channel)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 217 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 217 01 230	



Mode:	GPRS 1 Tx Slot
Channel:	810
Frequency (MHz):	1909.8

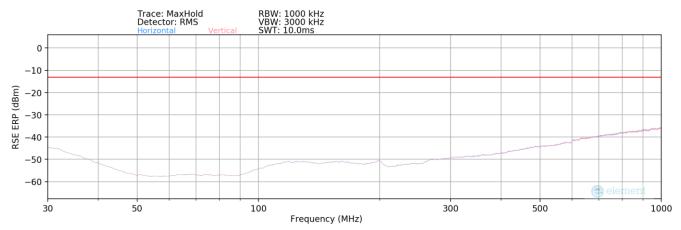
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3819.60	V	-	-	-73.27	7.73	41.46	-53.80	-13.00	-40.80
5729.40	V	110	172	-68.89	11.68	49.79	-45.46	-13.00	-32.46
7639.20	V	110	113	-67.88	15.69	54.81	-40.45	-13.00	-27.45
9549.00	V	-	-	-77.82	18.35	47.53	-47.73	-13.00	-34.73
11458.80	V	-	-	-76.75	20.76	51.01	-44.25	-13.00	-31.25
13368.60	V	-	-	-78.48	24.40	52.92	-42.34	-13.00	-29.34

Table 7-31. Radiated Spurious Data (GPRS PCS – High Channel)

FCC ID: A3LSMS916U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 219 of 226	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Page 218 of 236	



WCDMA PCS



Plot 7-355. Radiated Spurious Plot 30MHz-1GHz (WCDMA PCS)

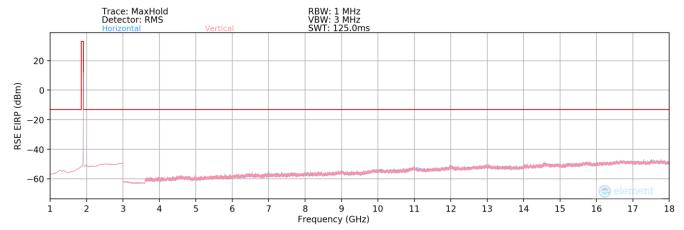
Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
774.48	٧	-	-	-78.70	29.77	58.07	-39.34	-13.00	-26.34

Table 7-32. Radiated Spurious Data 30MHz-1GHz (WCDMA PCS - Mid Channel)

FCC ID: A3LSMS916U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 219 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Faye 219 01 230





Plot 7-356. Radiated Spurious Plot 1-18GHz (WCDMA PCS)

Mode:	WCDMA RMC
Channel:	9262
Frequency (MHz):	1852.4

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
'04.80	V	-	-	-79.10	3.36	31.26	-63.99	-13.00	-50.99
557.20	V	-	-	-78.76	5.17	33.41	-61.85	-13.00	-48.85
109.60	V	-	-	-79.94	7.42	34.48	-60.78	-13.00	-47.78

Table 7-33. Radiated Spurious Data (WCDMA PCS – Low Channel)

Mode:	WCDMA RMC
Channel:	9400
Frequency (MHz):	1880

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
760.00	V	-	-	-78.92	3.17	31.25	-64.01	-13.00	-51.01
340.00	V	-	-	-79.15	5.18	33.03	-62.22	-13.00	-49.22
520.00	V	-	-	-80.19	7.51	34.32	-60.94	-13.00	-47.94

Table 7-34. Radiated Spurious Data (WCDMA PCS - Mid Channel)

Mode:	WCDMA RMC
Channel:	9538
Frequency (MHz):	1907.6

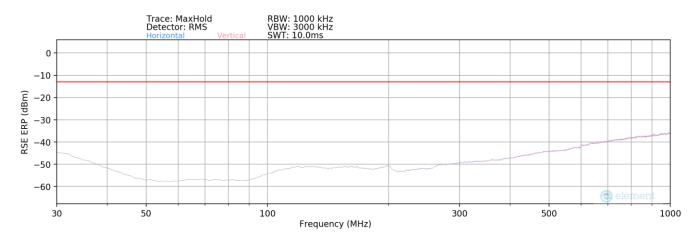
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
315.20	V	-	-	-78.51	2.99	31.48	-63.77	-13.00	-50.77
′22.80	V	-	-	-79.45	5.25	32.80	-62.45	-13.00	-49.45
330.40	V	-	-	-80.11	7.88	34.77	-60.48	-13.00	-47.48

Table 7-35. Radiated Spurious Data (WCDMA PCS - High Channel)

FCC ID: A3LSMS916U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 220 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Page 220 01 236	



LTE Band 25/2 - Ant F



Plot 7-357. Radiated Spurious Plot 30MHz-1GHz (LTE Band 25/2 - Ant F)

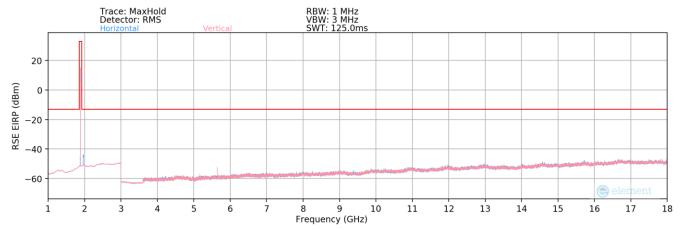
Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
201.05	V	-	-	-74.02	19.93	52.91	-44.50	-13.00	-31.50

Table 7-36. Radiated Spurious Data 30MHz-1GHz (LTE Band 25/2 - Mid Channel - Ant F)

FCC ID: A3LSMS916U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 221 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Faye 221 01 230





Plot 7-358. Radiated Spurious Plot 1-18GHz (LTE Band 25/2 – Ant F)

Bandwidth (MHz):	20
Frequency (MHz):	1860
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.00	V	144	296	-78.03	3.26	32.23	-63.03	-13.00	-50.03
5580.00	V	181	180	-66.02	5.44	46.42	-48.83	-13.00	-35.83
7440.00	V	-	-	-79.72	7.48	34.76	-60.49	-13.00	-47.49
9300.00	V	-	ı	-80.50	9.20	35.70	-59.56	-13.00	-46.56
11160.00	V	-	-	-81.14	11.93	37.79	-57.46	-13.00	-44.46

Table 7-37. Radiated Spurious Data (LTE Band 25/2 – Low Channel – Ant F)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.00	V	139	274	-76.40	3.15	33.75	-61.51	-13.00	-48.51
5647.50	V	144	186	-63.89	5.29	48.40	-46.86	-13.00	-33.86
7530.00	V	-	-	-80.11	7.59	34.48	-60.78	-13.00	-47.78
9412.50	V	-		-81.44	10.03	35.59	-59.67	-13.00	-46.67
11295.00	V	-	ı	-81.83	12.16	37.33	-57.93	-13.00	-44.93

Table 7-38. Radiated Spurious Data (LTE Band 25/2 – Mid Channel – Ant F)

FCC ID: A3LSMS916U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 222 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Page 222 01 236	



Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 50

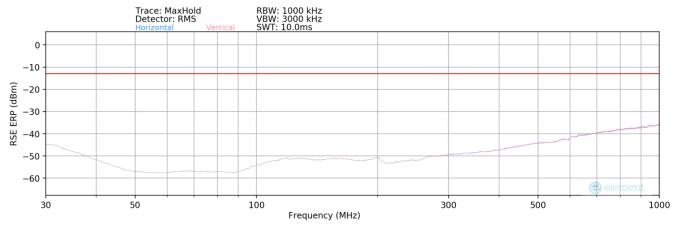
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	V	159	271	-74.76	3.00	35.24	-60.02	-13.00	-47.02
5715.00	V	172	192	-67.40	5.34	44.94	-50.32	-13.00	-37.32
7620.00	V	-	-	-79.82	7.99	35.17	-60.08	-13.00	-47.08
9525.00	V	-	•	-81.55	9.96	35.41	-59.85	-13.00	-46.85
11430.00	V	-	-	-82.25	12.42	37.17	-58.09	-13.00	-45.09

Table 7-39. Radiated Spurious Data (LTE Band 25/2 - High Channel - Ant F)

FCC ID: A3LSMS916U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 223 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Page 223 01 230



NR Band n25/2 - Ant F



Plot 7-359. Radiated Spurious Plot 30MHz-1GHz (NR Band n25/2 – Ant F)

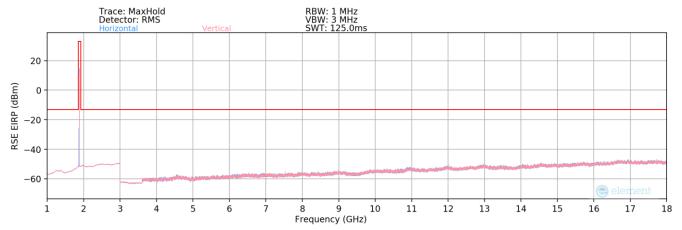
Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 53
Mode:	Stand Alone
Anchor Band:	ANT F

	Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
I	971.11	V	-	-	-89.13	31.58	49.45	-47.96	-13.00	-34.96

Table 7-40. Radiated Spurious Data 30MHz-1GHz (NR Band n25/2 - Mid Channel - Ant F)

FCC ID: A3LSMS916U		PART 24 MEASUREMENT REPORT			
Test Report S/N:	Test Dates:	EUT Type:	Page 224 of 236		
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Page 224 01 236		





Plot 7-360. Radiated Spurious Plot 1-18GHz (NR Band n25/2 - Ant F)

Bandwidth (MHz):	20
Frequency (MHz):	1860
RB / Offset:	1 / 53
Mode:	Stand Alone
Anchor Band:	0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3720.00	V	176	298	-78.48	3.26	31.78	-63.48	-13.00	-50.48
5580.00	V	135	183	-77.23	5.44	35.21	-60.04	-13.00	-47.04
7440.00	V	122	45	-75.10	7.48	39.38	-55.87	-13.00	-42.87
9300.00	V	-	ı	-80.36	9.20	35.84	-59.42	-13.00	-46.42
11160.00	V	-	ı	-80.97	11.93	37.96	-57.29	-13.00	-44.29
13020.00	V	-	-	-81.61	14.52	39.91	-55.35	-13.00	-42.35

Table 7-41. Radiated Spurious Data (NR Band n25/2 - Low Channel - Ant F)

Bandwidth (MHz):	20
Frequency (MHz):	1882.5
RB / Offset:	1 / 53
Mode:	Stand Alone
Anchor Band:	0

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3765.00	V	163	280	-78.50	3.15	31.65	-63.61	-13.00	-50.61
5647.50	V	135	40	-77.87	5.29	34.42	-60.84	-13.00	-47.84
7530.00	V	128	53	-75.53	7.59	39.06	-56.20	-13.00	-43.20
9412.50	V	-	1	-81.31	10.03	35.72	-59.54	-13.00	-46.54
11295.00	V	-	ı	-81.71	12.16	37.45	-57.81	-13.00	-44.81
13177.50	V	-	-	-81.62	13.94	39.32	-55.94	-13.00	-42.94

Table 7-42. Radiated Spurious Data (NR Band n25/2 - Mid Channel - Ant F)

FCC ID: A3LSMS916U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 225 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 223 01 230



Bandwidth (MHz):	20
Frequency (MHz):	1905
RB / Offset:	1 / 53
Mode:	Stand Alone
Anchor Band:	0

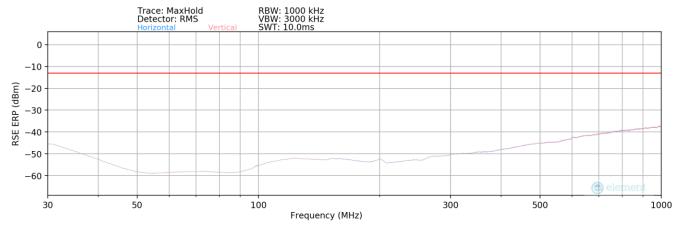
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
3810.00	V	146	289	-77.61	3.00	32.39	-62.87	-13.00	-49.87
5715.00	V	149	14	-78.82	5.34	33.52	-61.74	-13.00	-48.74
7620.00	V	134	321	-72.63	7.99	42.36	-52.89	-13.00	-39.89
9525.00	V	-	1	-81.45	9.96	35.51	-59.75	-13.00	-46.75
11430.00	V	-	1	-82.09	12.42	37.33	-57.93	-13.00	-44.93
13335.00	V	-	-	-81.55	13.84	39.29	-55.96	-13.00	-42.96

Table 7-43. Radiated Spurious Data (NR Band n25/2 - High Channel - Ant F)

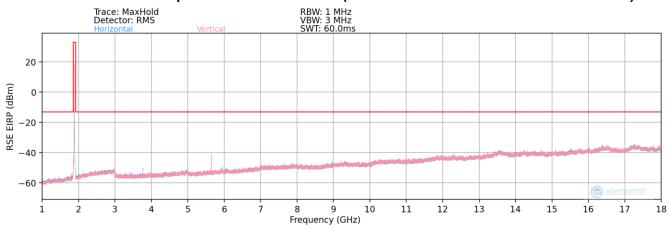
FCC ID: A3LSMS916U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 226 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 220 01 230



EN-DC: NR Band n25/2 ANT F - LTE Band 12



Plot 7-361. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n25/2 ANT F - LTE Band 12)



Plot 7-362. Radiated Spurious Plot 1-18GHz (EN-DC: NR Band n25/2 ANT F - LTE Band 12)

Case:	NR (n25/2) - Ant F - B12
Bandwidth (MHz):	40 & 10
Frequency (MHz):	1882.5 & 707.5
RB / Offset:	1 / 108 & 1/25
Mode:	EN-DC
Anchor Band:	B12

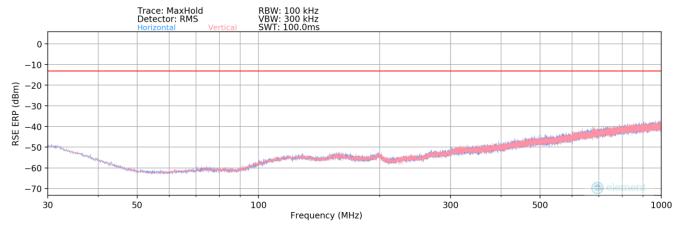
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
480.00	V	-	-	-97.43	25.30	34.87	-60.39	-13.00	-47.39
3765.00	Н	102	358	-73.92	7.52	40.60	-54.65	-13.00	-41.65
5647.50	V	148	286	-72.95	11.69	45.74	-49.51	-13.00	-36.51
6115.00	V	-	ı	-81.70	12.54	37.84	-57.41	-13.00	-44.41
6595.00	V	-	ı	-81.87	13.68	38.81	-56.44	-13.00	-43.44
7770.00	V	-	-	-82.29	16.28	40.99	-54.27	-13.00	-41.27

Table 7-44. Radiated Spurious Data (EN-DC: NR Band n25/2 ANT F - LTE Band 12)

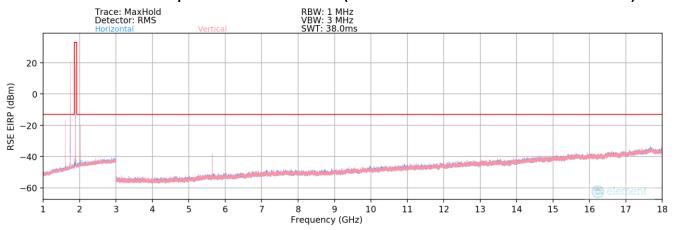
FCC ID: A3LSMS916U		Approved by: Technical Manager		
Test Report S/N:	Test Dates:	EUT Type:	Page 227 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Page 227 01 236	



EN-DC: NR Band n25/2 ANT F - LTE Band 66



Plot 7-363. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n25/2 ANT F - LTE Band 66)



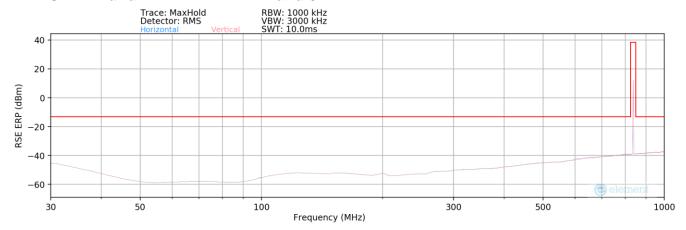
Plot 7-364. Radiated Spurious Plot 1-18GHz (EN-DC: NR Band n25/2 ANT F - LTE Band 66)

Table 7-45. Radiated Spurious Data (EN-DC: NR Band n25/2 ANT F - LTE Band 66)

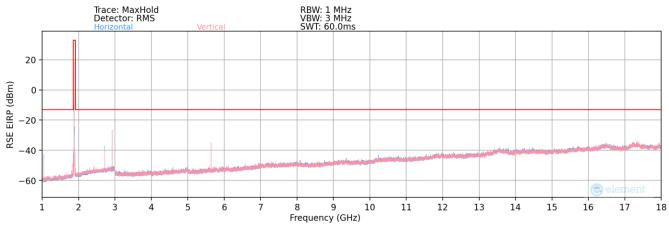
FCC ID: A3LSMS916U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 228 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Faye 220 01 230



EN-DC: NR Band n2 ANT F - LTE Band 5



Plot 7-365. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n2 ANT F - LTE Band 5)



Plot 7-366. Radiated Spurious Plot 1-18GHz (EN-DC: NR Band n2 ANT F - LTE Band 5)

Case:	n2(Ant F)-B5
Bandwidth (MHz):	20&10
Fre que noy (MHz):	1880/836.5
RB / Offset	1,53 & 1/25
Mode:	EN-DC
Anchor Band:	5

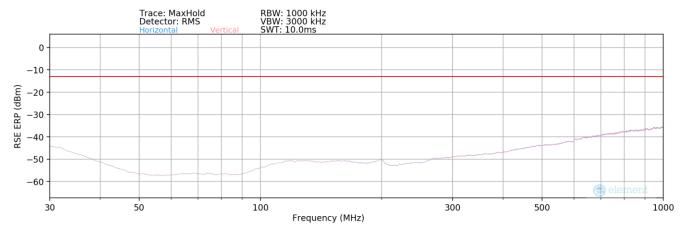
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
419.00	н	-	-	-100.60	23.83	30.23	-65.03	-13.00	-52.03
1043.50	Н	219	302	-58.80	-2.99	47.21	-48.05	-13.00	-35.05
2716.00	н	218	297	-58.84	4.85	53.01	-42.24	-13.00	-29.24
2932.00	Н	201	283	-57.17	5.05	54.88	-40.38	-13.00	-27.38
3139.00	Н	-	-	-79.59	6.87	34.28	-60.98	-13.00	-47.98
4174.00	н	-	-	-80.17	8.11	34.94	-60.31	-13.00	-47.31
5226.00	Н	-		-81.29	10.14	35.85	-59.41	-13.00	-46.41

Table 7-46. Radiated Spurious Data (EN-DC: NR Band n2 ANT F – LTE Band 5)

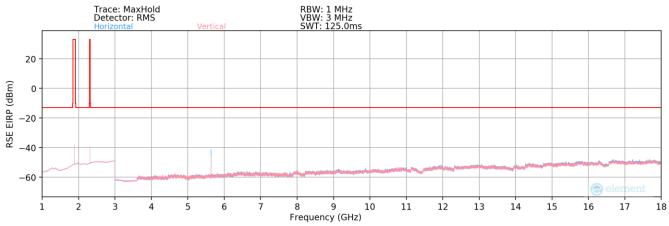
FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 229 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Faye 229 01 230



EN-DC: NR Band n2 ANT F - LTE Band 30



Plot 7-367. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n2 ANT F - LTE Band 30)



Plot 7-368. Radiated Spurious Plot 1-18GHz (EN-DC: NR Band n2 ANT F - LTE Band 30)

Case:	n2- B30
Bandwidth (MHz):	20 & 10
Frequency (MHz):	1880 & 2310
RB / Offset:	1/50 & 1/25
Mode:	EN-DC
Anchor Band:	B30

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
590.00	V	-	-	-107.99	27.08	26.09	-69.16	-13.00	-56.16
5640.00	Н	284	317	-63.84	5.18	48.34	-46.91	-13.00	-33.91
6230.00	Н	-	-	-78.95	5.84	33.89	-61.37	-13.00	-48.37
7520.00	Н	-	-	-79.48	7.51	35.03	-60.23	-13.00	-47.23
9240.00	Н	-	-	-80.30	8.81	35.51	-59.75	-13.00	-46.75

Table 7-47. Radiated Spurious Data (EN-DC: NR Band n2 ANT F - LTE Band 30)

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 230 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 230 01 230



7.9 Frequency Stability / Temperature Variation

Test Overview and Limit

Frequency stability testing is performed in accordance with the guidelines of ANSI C63.26-2015. The frequency stability of the transmitter is measured by:

- a.) **Temperature:** The temperature is varied from -30°C to +50°C in 10°C increments using an environmental chamber.
- b.) **Primary Supply Voltage:** The primary supply voltage is varied from 85% to 115% of the nominal value for non hand-carried battery and AC powered equipment. For hand-carried, battery-powered equipment, primary supply voltage is reduced to the battery operating end point which shall be specified by the manufacturer.

For Part 24, the frequency stability shall be sufficient to ensure that the fundamental emission stays within the authorized frequency block.

Test Procedure Used

ANSI C63.26-2015 - Section 5.6

Test Settings

- 1. The carrier frequency of the transmitter is measured at room temperature (20°C to provide a reference).
- 2. The equipment is turned on in a "standby" condition for fifteen minutes before applying power to the transmitter. Measurement of the carrier frequency of the transmitter is made within one minute after applying power to the transmitter.
- 3. Frequency measurements are made at 10°C intervals ranging from -30°C to +50°C. A period of at least one half-hour is provided to allow stabilization of the equipment at each temperature level.

Test Setup

The EUT was connected via an RF cable to a spectrum analyzer with the EUT placed inside an environmental chamber.

Test Notes

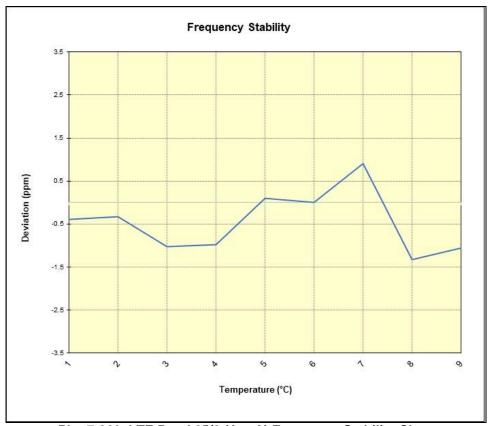
None

FCC ID: A3LSMS916U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 231 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Faye 231 01 230



LTE Band 25/2							
	Operating F	requency (Hz):	1,882,5	600,000			
	Ref.	Voltage (VDC):	4.3	35			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)		
	4.35	- 30	1,882,594,014	-731	-0.0000388		
		- 20	1,882,594,132	-613	-0.0000326		
		- 10	1,882,592,826	-1,919	-0.0001019		
		0	1,882,592,900	-1,845	-0.0000980		
100 %		+ 10	1,882,594,933	189	0.0000100		
		+ 20 (Ref)	1,882,594,745	0	0.0000000		
		+ 30	1,882,596,453	1,709	0.0000908		
		+ 40	1,882,592,239	-2,506	-0.0001331		
		+ 50	1,882,592,767	-1,978	-0.0001051		
Battery Endpoint	3.69	+ 20	1,882,594,266	-479	-0.0000254		

Table 7-48. LTE Band 25/2 (Ant A) Frequency Stability Data



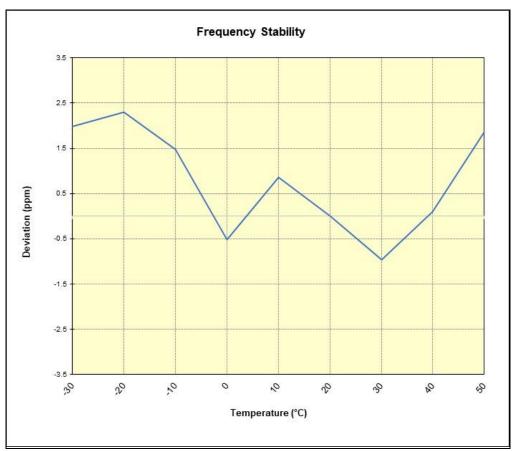
Plot 7-369. LTE Band 25/2 (Ant A) Frequency Stability Chart

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 232 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Faye 232 01 230



NR Band <u>n25/2</u>							
	Operating F	requency (Hz):	1,882,5	00,000			
	Ref.	Voltage (VDC):	4.3	35			
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)		
		- 30	1,882,588,638	3,748	0.0001991		
		- 20	1,882,589,231	4,341	0.0002306		
		- 10	1,882,587,684	2,794	0.0001484		
		0	1,882,583,928	-962	-0.0000511		
100 %	4.35	+ 10	1,882,586,510	1,620	0.0000861		
		+ 20 (Ref)	1,882,584,890	0	0.0000000		
		+ 30	1,882,583,088	-1,802	-0.0000957		
		+ 40	1,882,585,073	183	0.0000097		
		+ 50	1,882,588,397	3,507	0.0001863		
Battery Endpoint	3.69	+ 20	1,882,585,971	1,081	0.0000574		

Table 7-49. NR Band n25/2 (Ant A) Frequency Stability Data



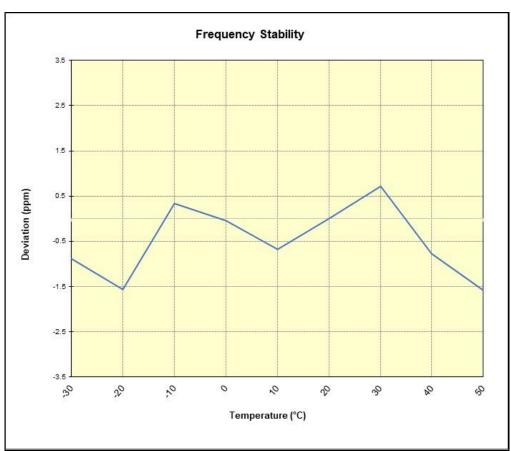
Plot 7-370. NR Band n25/2 (Ant A) Frequency Stability Chart

FCC ID: A3LSMS916U		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 233 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Faye 233 01 230



GSM/GPRS PCS							
	Operating F	requency (Hz):	1,880,0	00,000			
	Ref.	Voltage (VDC):	4.3	35			
•							
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)		
	4.35	- 30	1,880,002,410	-1,654	-0.0000880		
		- 20	1,880,001,118	-2,946	-0.0001567		
		- 10	1,880,004,699	635	0.0000338		
		0	1,880,003,982	-82	-0.0000044		
100 %		+ 10	1,880,002,787	-1,277	-0.0000679		
		+ 20 (Ref)	1,880,004,064	0	0.0000000		
		+ 30	1,880,005,422	1,358	0.0000722		
		+ 40	1,880,002,622	-1,442	-0.0000767		
		+ 50	1,880,001,108	-2,956	-0.0001572		
Battery Endpoint	3.69	+ 20	1,880,003,876	-188	-0.0000100		

Table 7-50. GSM/GPRS PCS Frequency Stability Data



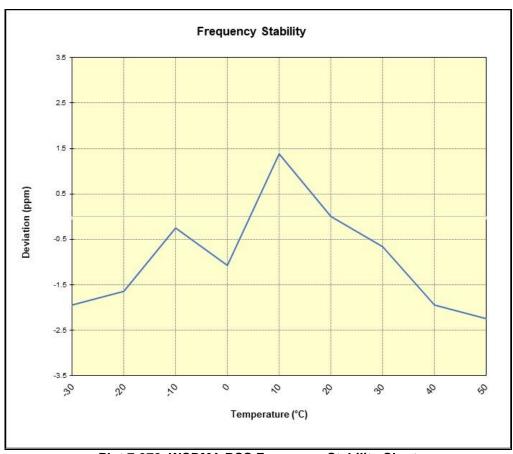
Plot 7-371. GSM/GPRS PCS Frequency Stability Chart

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N:	Test Dates:	EUT Type:	Page 234 of 236
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 234 01 230



WCDMA PCS									
	Operating Frequency (Hz):		1,880,000,000]				
	Ref. Voltage (VDC):		4.35		1				
Voltage (%)	Power (VDC)	Temp (°C)	Frequency (Hz)	Freq. Dev. (Hz)	Deviation (%)				
		- 30	1,880,086,880	-3,661	-0.0001947				
		- 20	1,880,087,451	-3,090	-0.0001644				
		- 10	1,880,090,063	-478	-0.0000254				
		0	1,880,088,537	-2,004	-0.0001066				
100 %	4.35	+ 10	1,880,093,141	2,600	0.0001383				
		+ 20 (Ref)	1,880,090,541	0	0.0000000				
		+ 30	1,880,089,299	-1,242	-0.0000661				
		+ 40	1,880,086,883	-3,658	-0.0001946				
		+ 50	1,880,086,328	-4,213	-0.0002241				
Battery Endpoint	3.69	+ 20	1,880,090,644	103	0.0000055				

Table 7-51. WCDMA PCS Frequency Stability Data



Plot 7-372. WCDMA PCS Frequency Stability Chart

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 235 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset		



8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMS916U** complies with all the requirements of Part 24 of the FCC rules.

FCC ID: A3LSMS916U	PART 24 MEASUREMENT REPORT		Approved by: Technical Manager	
Test Report S/N:	Test Dates:	EUT Type:	Page 236 of 236	
1M2209010097-02.A3L	09/02/2022 - 11/10/2022	Portable Handset	Fage 236 01 236	