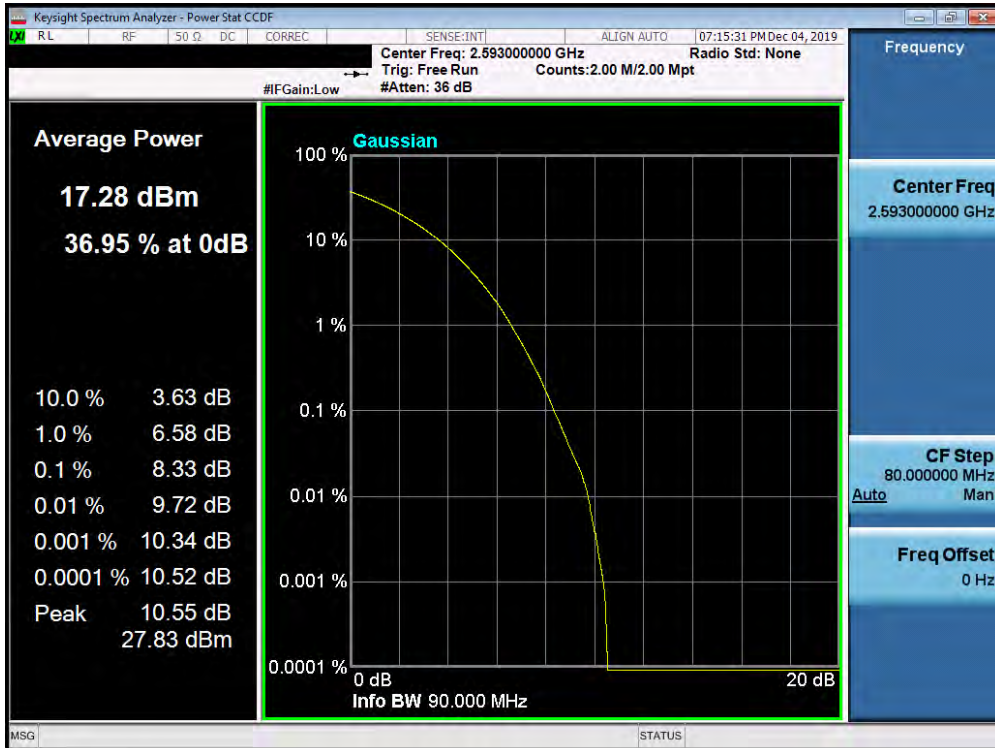
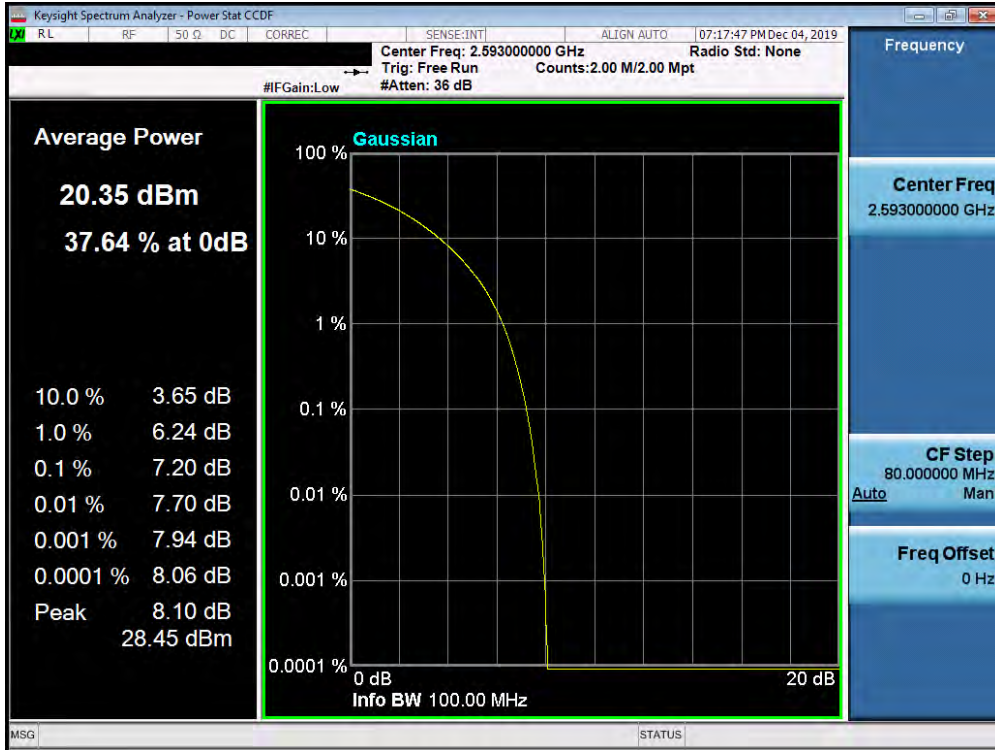


Plot 7-685. PAR Plot (Band n41 - 90.0MHz CP-OFDM- 64 QAM - Full RB Configuration)

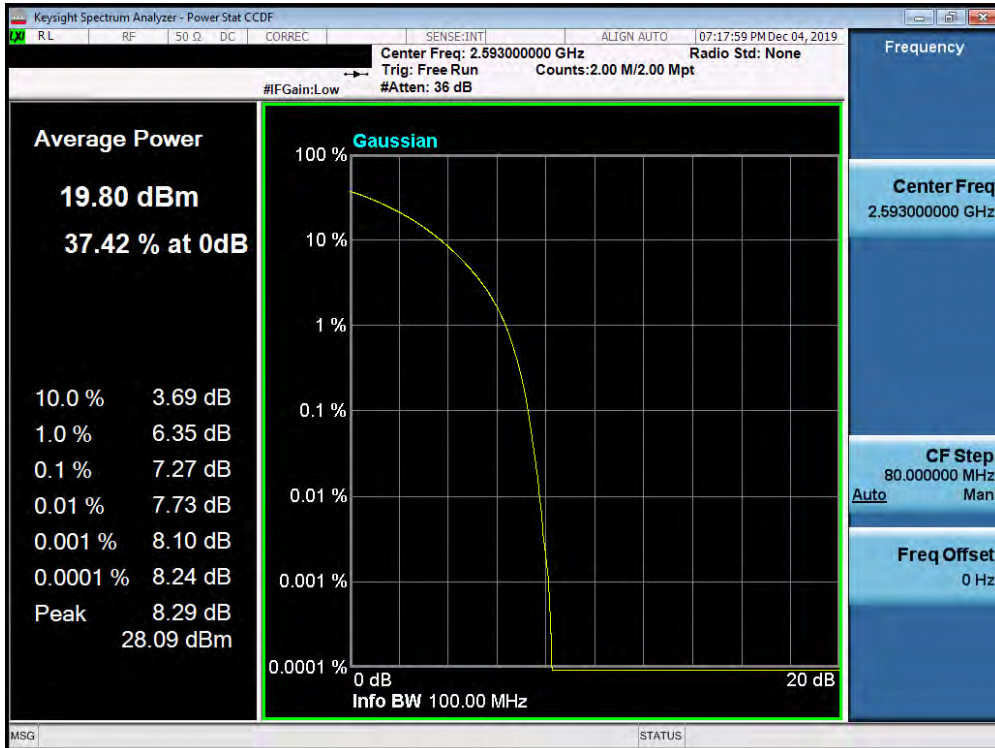


Plot 7-686. PAR Plot (Band n41 - 90.0MHz CP-OFDM- 256 QAM - Full RB Configuration)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 - 01/09/20	EUT Type: Portable Handset		Page 419 of 434

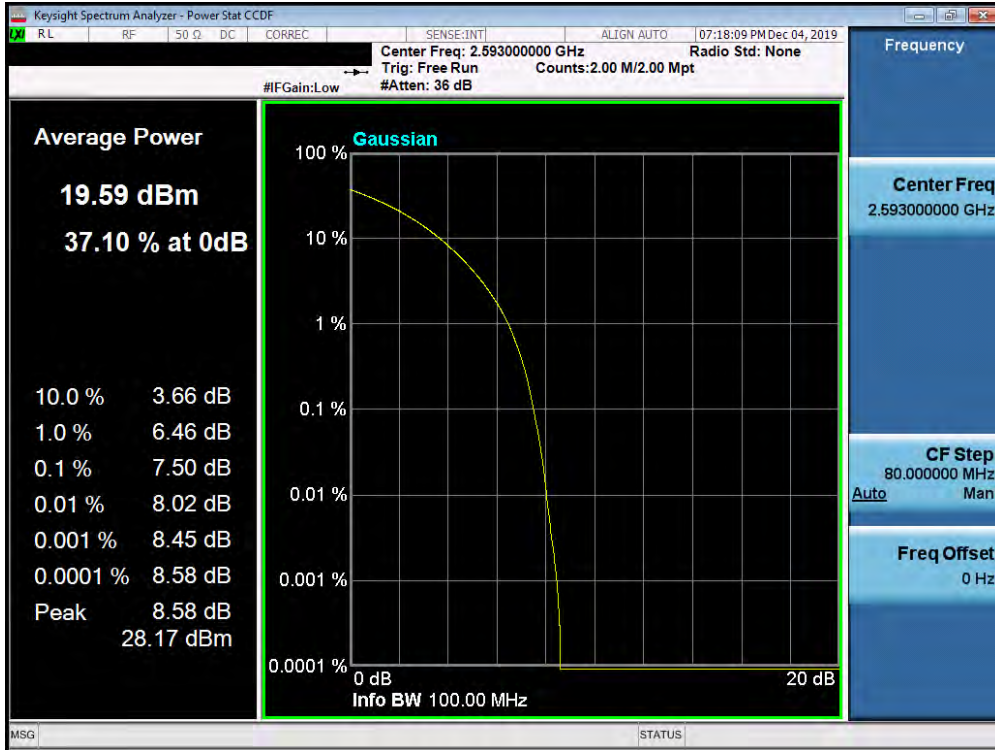


Plot 7-687. PAR Plot (Band n41 - 100.0MHz CP-OFDM-QPSK - Full RB Configuration)

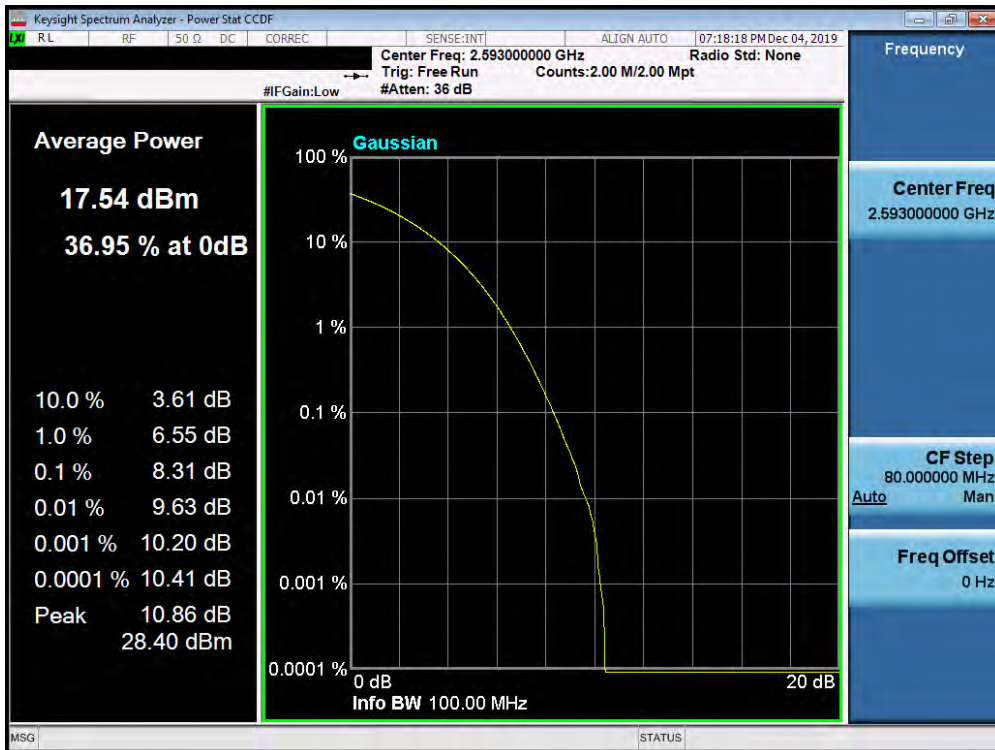


Plot 7-688. PAR Plot (Band n41 - 100.0MHz CP-OFDM-16 QAM - Full RB Configuration)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 - 01/09/20	EUT Type: Portable Handset		Page 420 of 434



Plot 7-689. PAR Plot (Band n41 - 100.0MHz CP-OFDM- 64 QAM - Full RB Configuration)



Plot 7-690. PAR Plot (Band n41 - 100.0MHz CP-OFDM- 256 QAM - Full RB Configuration)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 - 01/09/20	EUT Type: Portable Handset		Page 421 of 434

Radiated Powers (ERP/EIRP)

All SCS's and Waveforms (CP-OFDM vs 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. Additional Data added representing other configurations (eg. CP-OFDM).

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBd]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]
665.50	5	QPSK	V	180	328	12 / 6	15.20	0.75	13.80	0.024	34.77	-20.97
680.50	5	QPSK	V	180	338	12 / 6	13.53	1.05	12.43	0.017	34.77	-22.34
695.50	5	QPSK	V	185	334	12 / 6	14.18	1.15	13.18	0.021	34.77	-21.59
665.50	5	16-QAM	V	180	328	12 / 6	14.44	0.75	13.04	0.020	34.77	-21.73
665.50	5	64-QAM	V	180	328	12 / 6	13.97	0.75	12.57	0.018	34.77	-22.20
665.50	5	256-QAM	V	180	330	12 / 6	11.70	0.75	10.30	0.011	34.77	-24.47
668.00	10	QPSK	V	180	328	25 / 12	15.46	0.75	14.06	0.025	34.77	-20.71
680.50	10	QPSK	V	180	338	25 / 12	13.33	1.05	12.23	0.017	34.77	-22.54
693.00	10	QPSK	V	185	334	25 / 12	14.39	1.15	13.39	0.022	34.77	-21.38
668.00	10	16-QAM	V	180	328	25 / 12	14.23	0.75	12.83	0.019	34.77	-21.94
668.00	10	64-QAM	V	180	328	25 / 12	13.11	0.75	11.71	0.015	34.77	-23.06
668.00	10	256-QAM	V	180	328	25 / 12	11.47	0.75	10.07	0.010	34.77	-24.70
670.50	15	QPSK	V	180	328	36 / 18	15.31	0.85	14.01	0.025	34.77	-20.76
680.50	15	QPSK	V	180	338	36 / 18	13.21	1.05	12.11	0.016	34.77	-22.66
690.50	15	QPSK	V	185	334	36 / 18	14.18	1.15	13.18	0.021	34.77	-21.59
670.50	15	16-QAM	V	181	335	36 / 18	14.33	0.85	13.03	0.020	34.77	-21.74
670.50	15	64-QAM	V	180	334	36 / 18	13.88	0.85	12.58	0.018	34.77	-22.19
670.50	15	256-QAM	V	180	340	36 / 18	11.94	0.85	10.64	0.012	34.77	-24.13
673.00	20	QPSK	V	180	328	1 / 53	15.82	0.95	14.62	0.029	34.77	-20.15
680.50	20	QPSK	V	180	338	1 / 53	13.66	1.05	12.56	0.018	34.77	-22.21
688.00	20	QPSK	V	185	334	1 / 53	14.38	1.15	13.38	0.022	34.77	-21.39
673.00	20	16-QAM	V	181	332	50 / 25	14.84	0.95	13.64	0.023	34.77	-21.13
673.00	20	64-QAM	V	182	335	50 / 25	14.14	0.95	12.94	0.020	34.77	-21.83
673.00	20	256-QAM	V	181	330	50 / 25	11.90	0.95	10.70	0.012	34.77	-24.07
673.00	20	QPSK	H	322	286	1 / 53	12.63	1.05	11.53	0.014	34.77	-23.24
673.00	20 (WCP)	QPSK	V	193	153	1 / 53	10.80	1.05	9.70	0.009	34.77	-25.07
673.00	20 (CP-OFDM)	QPSK	V	172	359	1 / 53	8.89	1.05	7.79	0.006	34.77	-26.98

Table 7-46. ERP Data (n71)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 – 01/09/20	EUT Type: Portable Handset	Page 422 of 434	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
1712.50	5	QPSK	V	118	332	12 / 6	12.19	9.34	21.53	0.142	30.00	-8.47
1745.00	5	QPSK	V	110	335	1 / 0	13.52	9.11	22.63	0.183	30.00	-7.37
1777.50	5	QPSK	V	135	345	12 / 6	10.83	9.16	20.00	0.100	30.00	-10.00
1745.00	5	16-QAM	V	110	335	1 / 0	12.49	9.11	21.60	0.144	30.00	-8.40
1745.00	5	64-QAM	V	110	335	1 / 0	10.80	9.11	19.91	0.098	30.00	-10.09
1745.00	5	256-QAM	V	110	335	1 / 0	8.50	9.11	17.61	0.058	30.00	-12.39
1715.00	10	QPSK	V	120	330	25 / 12	11.97	9.32	21.29	0.135	30.00	-8.71
1745.00	10	QPSK	V	107	330	1 / 0	13.37	9.11	22.48	0.177	30.00	-7.52
1775.00	10	QPSK	V	135	331	25 / 12	11.17	9.16	20.33	0.108	30.00	-9.67
1745.00	10	16-QAM	V	107	330	1 / 0	12.42	9.11	21.53	0.142	30.00	-8.47
1745.00	10	64-QAM	V	107	330	1 / 0	10.57	9.11	19.68	0.093	30.00	-10.32
1745.00	10	256-QAM	V	107	330	1 / 0	8.81	9.11	17.92	0.062	30.00	-12.08
1717.50	15	QPSK	V	120	335	36 / 18	12.15	9.30	21.45	0.140	30.00	-8.55
1745.00	15	QPSK	V	107	331	1 / 0	13.19	9.11	22.30	0.170	30.00	-7.70
1772.50	15	QPSK	V	138	345	36 / 18	11.34	9.15	20.49	0.112	30.00	-9.51
1745.00	15	16-QAM	V	107	331	1 / 0	12.01	9.11	21.12	0.129	30.00	-8.88
1745.00	15	64-QAM	V	107	331	1 / 0	10.77	9.11	19.88	0.097	30.00	-10.12
1745.00	15	256-QAM	V	107	331	1 / 0	9.32	9.11	18.43	0.070	30.00	-11.57
1720.00	20	QPSK	V	122	337	1 / 53	12.85	9.28	22.13	0.163	30.00	-7.87
1745.00	20	QPSK	V	107	332	1 / 1	13.61	9.11	22.72	0.187	30.00	-7.28
1770.00	20	QPSK	V	138	351	1 / 53	11.01	9.14	20.15	0.104	30.00	-9.85
1745.00	20	16-QAM	V	107	332	1 / 0	12.64	9.11	21.75	0.150	30.00	-8.25
1745.00	20	64-QAM	V	107	332	1 / 0	11.37	9.11	20.48	0.112	30.00	-9.52
1745.00	20	256-QAM	V	107	332	1 / 0	9.40	9.11	18.51	0.071	30.00	-11.49
1745.00	20	QPSK	H	102	359	1 / 1	8.32	9.11	17.43	0.055	30.00	-12.57
1745.00	20 (WCP)	QPSK	H	106	359	1 / 1	7.98	9.11	17.09	0.051	30.00	-12.91
1745.00	20 (CP-OFDM)	QPSK	V	107	332	1 / 1	10.47	9.11	19.58	0.091	30.00	-10.42

Table 7-47. EIRP Data (n66)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 – 01/09/20	EUT Type: Portable Handset	Page 423 of 434	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2506.02	20	QPSK	V	115	325	12 / 6	10.05	9.40	19.45	0.088	33.01	-13.56
2592.99	20	QPSK	V	145	315	12 / 6	11.55	9.56	21.11	0.129	33.01	-11.90
2679.99	20	QPSK	V	133	240	1 / 24	10.71	9.69	20.39	0.110	33.01	-12.62
2506.02	20	16-QAM	V	115	325	12 / 6	9.60	9.40	19.00	0.079	33.01	-14.01
2592.99	20	64-QAM	V	145	315	12 / 6	8.33	9.56	17.89	0.062	33.01	-15.12
2506.02	20	256-QAM	V	115	325	12 / 6	6.43	9.40	15.83	0.038	33.01	-17.18
2516.01	40	QPSK	V	115	325	12 / 6	11.03	9.40	20.43	0.110	33.01	-12.58
2592.99	40	QPSK	V	145	315	12 / 6	11.23	9.56	20.79	0.120	33.01	-12.22
2670.00	40	QPSK	V	133	240	1 / 24	10.57	9.69	20.25	0.106	33.01	-12.76
2592.99	40	16-QAM	V	145	315	12 / 6	9.20	9.56	18.76	0.075	33.01	-14.25
2516.01	40	64-QAM	V	115	325	12 / 6	8.31	9.40	17.71	0.059	33.01	-15.30
2516.01	40	256-QAM	V	115	325	12 / 6	6.83	9.40	16.23	0.042	33.01	-16.78
2521.02	50	QPSK	V	120	320	12 / 6	10.30	9.40	19.70	0.093	33.01	-13.31
2592.99	50	QPSK	V	145	310	12 / 6	11.39	9.56	20.95	0.124	33.01	-12.06
2664.99	50	QPSK	V	133	240	1 / 24	10.11	9.69	19.79	0.095	33.01	-13.22
2592.99	50	16-QAM	V	145	310	12 / 6	10.27	9.56	19.83	0.096	33.01	-13.18
2521.02	50	64-QAM	V	120	320	12 / 6	9.67	9.40	19.07	0.081	33.01	-13.94
2521.02	50	256-QAM	V	120	320	12 / 6	7.94	9.40	17.34	0.054	33.01	-15.67

Table 7-48. EIRP (n41)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 – 01/09/20	EUT Type: Portable Handset	Page 424 of 434	

Frequency [MHz]	Channel Bandwidth [MHz]	Mod.	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	RB Size/Offset	Substitute Level [dBm]	Ant. Gain [dBi]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
2526.00	60	QPSK	V	120	320	12 / 6	9.74	9.40	19.14	0.082	33.01	-13.87
2592.99	60	QPSK	V	145	310	12 / 6	9.78	9.56	19.34	0.086	33.01	-13.67
2659.98	60	QPSK	V	133	240	1 / 24	9.61	9.69	19.30	0.085	33.01	-13.71
2526.00	60	16-QAM	V	120	320	12 / 6	9.47	9.40	18.87	0.077	33.01	-14.14
2526.00	60	64-QAM	V	120	320	12 / 6	8.45	9.40	17.85	0.061	33.01	-15.16
2526.00	60	256-QAM	V	120	320	12 / 6	7.03	9.40	16.43	0.044	33.01	-16.58
2536.02	80	QPSK	V	117	312	25 / 12	10.29	9.40	19.69	0.093	33.01	-13.32
2593.00	80	QPSK	V	145	308	25 / 12	10.24	9.56	19.80	0.095	33.01	-13.21
2649.99	80	QPSK	V	133	234	1 / 49	10.70	9.68	20.38	0.109	33.01	-12.63
2536.02	80	16-QAM	V	117	312	25 / 12	9.48	9.40	18.88	0.077	33.01	-14.13
2593.00	80	64-QAM	V	145	308	25 / 12	8.28	9.56	17.84	0.061	33.01	-15.17
2536.02	80	256-QAM	V	117	312	25 / 12	7.33	9.40	16.73	0.047	33.01	-16.28
2541.00	90	QPSK	V	120	309	36 / 18	12.17	9.39	21.56	0.143	33.01	-11.45
2593.00	90	QPSK	V	116	309	36 / 18	10.50	9.56	20.06	0.101	33.01	-12.95
2644.98	90	QPSK	V	123	310	1 / 0	4.38	9.68	14.06	0.025	33.01	-18.95
2541.00	90	16-QAM	V	120	309	36 / 18	11.67	9.39	21.06	0.128	33.01	-11.95
2541.00	90	64-QAM	V	120	309	36 / 18	9.73	9.39	19.12	0.082	33.01	-13.89
2541.00	90	256-QAM	V	120	309	36 / 18	7.65	9.39	17.04	0.051	33.01	-15.97
2546.01	100	QPSK	V	139	315	1 / 137	11.51	9.39	20.90	0.123	33.01	-12.11
2593.02	100	QPSK	V	133	312	1 / 137	10.39	9.56	19.95	0.099	33.01	-13.06
2640.00	100	QPSK	V	180	311	1 / 1	7.53	9.68	17.21	0.053	33.01	-15.80
2546.01	100	16-QAM	V	139	315	50 / 25	10.83	9.39	20.22	0.105	33.01	-12.79
2546.01	100	64-QAM	V	139	315	50 / 25	10.17	9.39	19.56	0.090	33.01	-13.45
2546.01	100	256-QAM	V	139	315	50 / 25	8.39	9.39	17.78	0.060	33.01	-15.23
2541.00	90 (WCP)	QPSK	H	145	310	36 / 18	8.90	9.39	18.29	0.067	33.01	-14.72
2541.00	90 (CP-OFDM)	QPSK	V	147	334	36 / 18	10.00	9.39	19.39	0.087	33.01	-13.62

Table 7-49. EIRP (n41)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 – 01/09/20	EUT Type: Portable Handset	Page 425 of 434	

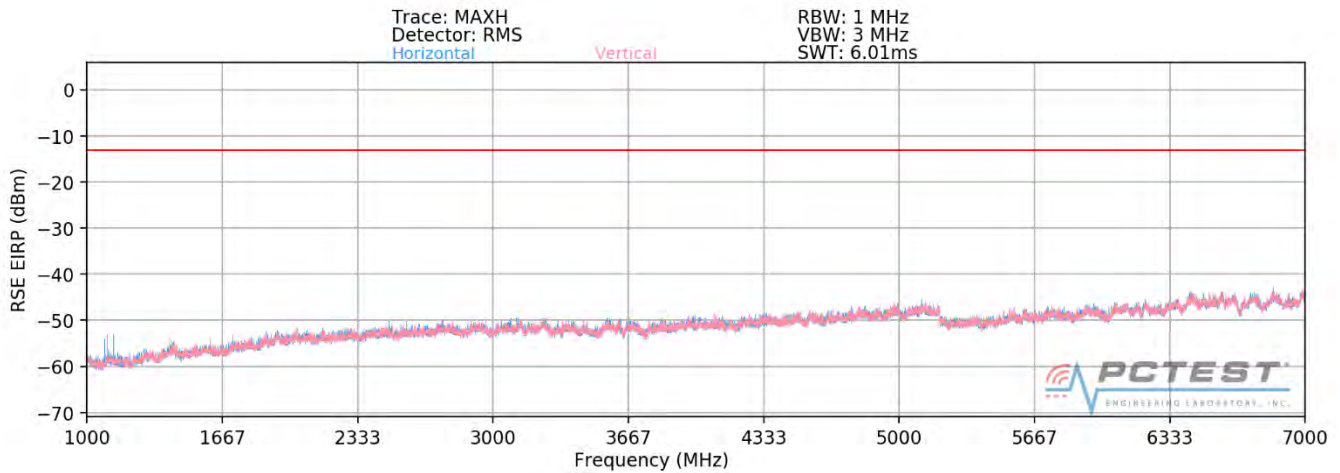
Radiated Spurious Emissions Measurements

All SCS's and Waveforms (CP-OFDM vs 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.

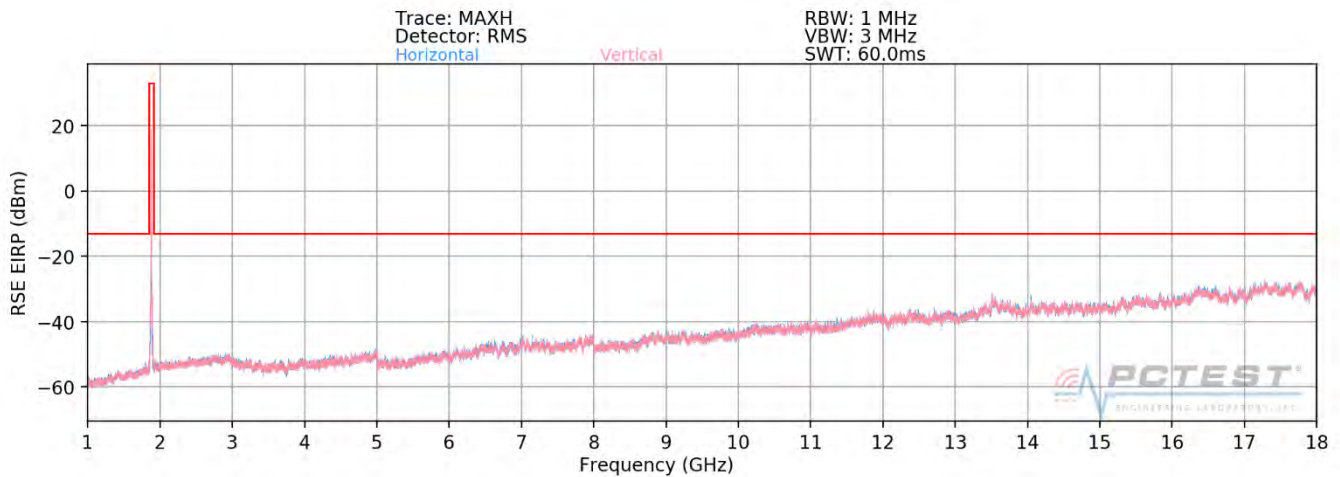
Per FCC Guidance, KDB 328880, Radiated Spurious Measurements were made based of the worst case modulation and RB configuration as determined by EIRP measurement, and grouping the available combinations by Low Band, Mid Band, and High Band.

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). Per KDB 968740, spurious emissions from the NR carrier device, is subject to the rules under which the NR carrier operates. Spurious emission caused by the LTE carrier must meet the requirements of the rules under which the LTE carrier operates. If the spurious emission is caused by the simultaneous operation of both devices, the limit is the highest level allowed by either rule part.

NR Band n71

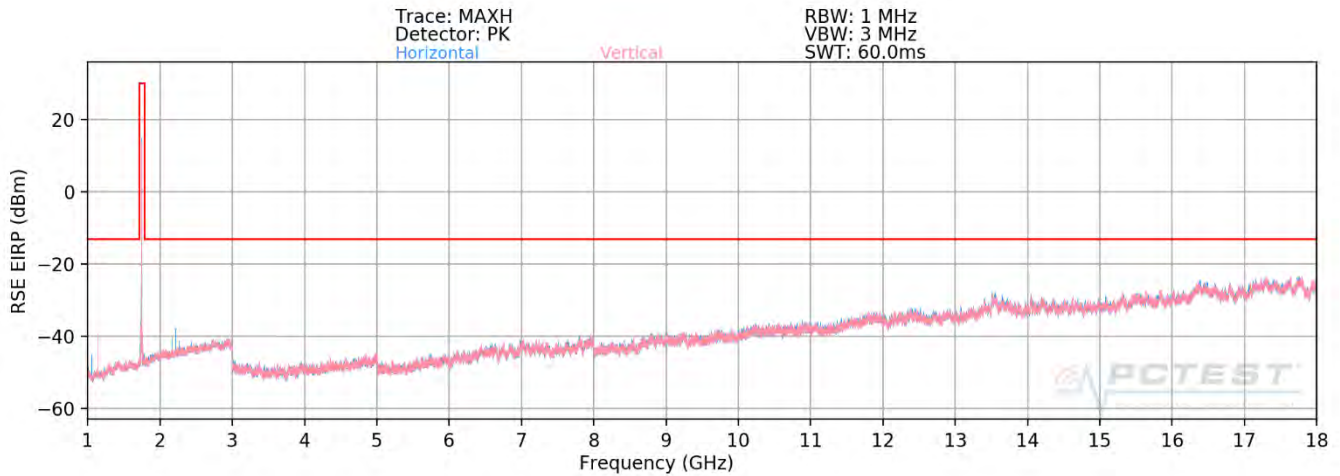


Plot 7-691. Radiated Spurious Plot above 1GHz (n71 Standalone)



Plot 7-692. Radiated Spurious Plot above 1GHz (n71 ENDC - ANCHOR B2)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 - 01/09/20	EUT Type: Portable Handset		Page 426 of 434



Plot 7-693. Radiated Spurious Plot above 1GHz (n71 ENDC – ANCHOR B66)

OPERATING FREQUENCY: 670.50 MHz
 MODULATION SIGNAL: QPSK (DFT-s-OFDM)
 BANDWIDTH: 15.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1341.00	V	-	-	-67.81	8.77	-59.04	-46.0
2011.50	V	166	243	-63.16	10.28	-52.88	-39.9
2682.00	V	-	-	-62.31	9.83	-52.48	-39.5
3352.50	V	-	-	-57.60	7.30	-50.30	-37.3

Table 7-50. Radiated Spurious Data (n71 – Low Channel)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 – 01/09/20	EUT Type: Portable Handset		Page 427 of 434	

OPERATING FREQUENCY: 680.50 MHz
 MODULATION SIGNAL: QPSK (DFT-s-OFDM)
 BANDWIDTH: 15.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1361.00	V	-	-	-66.54	8.61	-57.93	-44.9
2041.50	V	159	213	-61.81	10.04	-51.78	-38.8
2722.00	V	-	-	-61.39	9.58	-51.81	-38.8
3402.50	V	-	-	-57.48	7.33	-50.15	-37.2

Table 7-51. Radiated Spurious Data (n71 – Mid Channel)

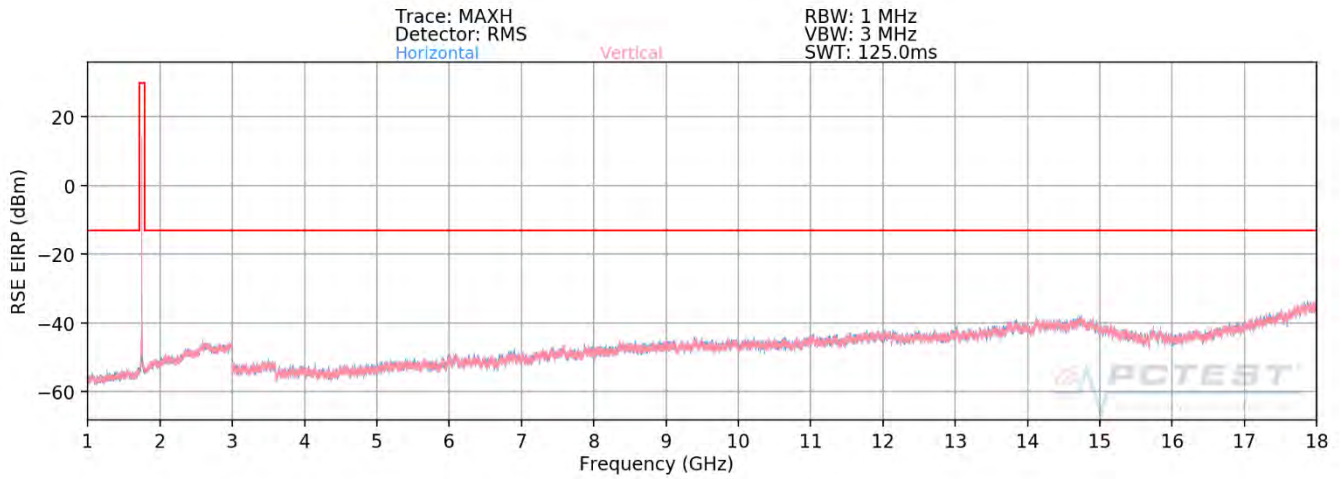
OPERATING FREQUENCY: 690.50 MHz
 MODULATION SIGNAL: QPSK (DFT-s-OFDM)
 BANDWIDTH: 15.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1381.00	V	-	-	-65.61	8.35	-57.27	-44.3
2071.50	V	-	-	-62.99	9.82	-53.17	-40.2
2762.00	V	-	-	-62.25	9.25	-53.00	-40.0

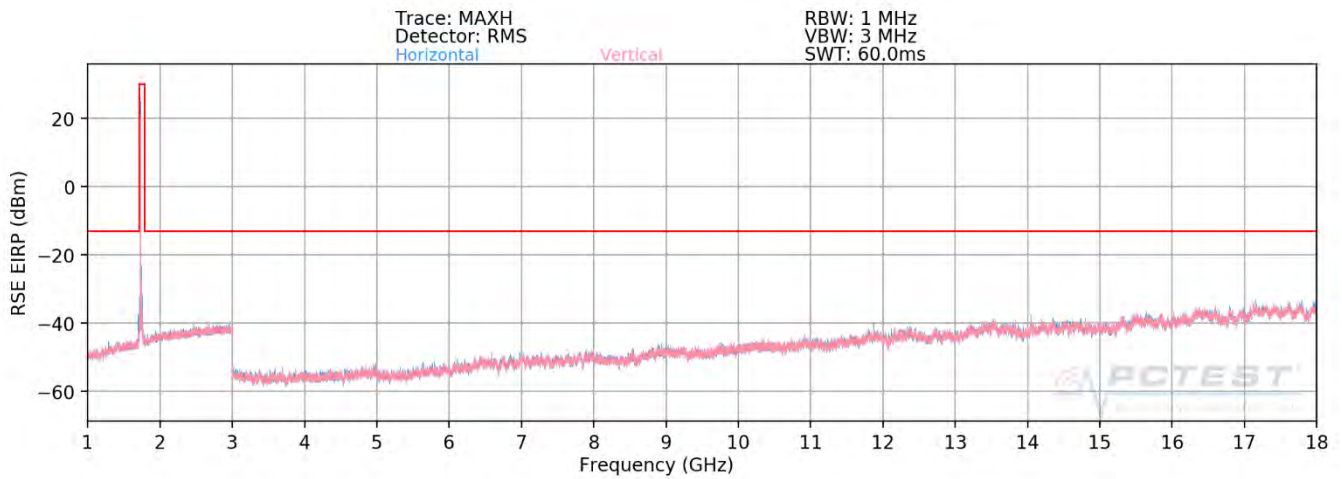
Table 7-52. Radiated Spurious Data (n71 – High Channel)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 – 01/09/20	EUT Type: Portable Handset		Page 428 of 434	

NR Band n66



Plot 7-694. Radiated Spurious Plot above 1GHz (n66 Standalone)



Plot 7-695. Radiated Spurious Plot above 1GHz (n66 ENDC – ANCHOR B13)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 – 01/09/20	EUT Type: Portable Handset		Page 429 of 434

OPERATING FREQUENCY: 1720.00 MHz
 MODULATION SIGNAL: QPSK (DFT-s-OFDM)
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3440.00	V	-	-	-58.01	7.51	-50.50	-37.5
5160.00	V	-	-	-60.92	11.10	-49.82	-36.8

Table 7-53. Radiated Spurious Data (n66 – Low Channel)

OPERATING FREQUENCY: 1745.00 MHz
 MODULATION SIGNAL: QPSK (DFT-s-OFDM)
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3490.00	H	-	-	-57.71	7.50	-50.20	-37.2
5235.00	H	-	-	-60.10	11.26	-48.84	-35.8

Table 7-54. Radiated Spurious Data (n66 – Mid Channel)

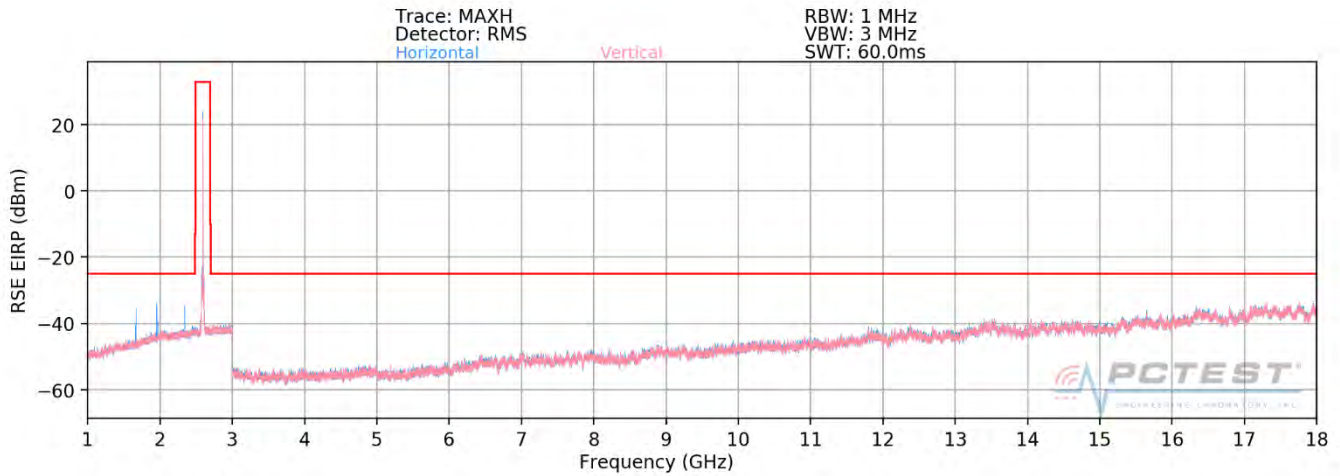
OPERATING FREQUENCY: 1770.00 MHz
 MODULATION SIGNAL: QPSK (DFT-s-OFDM)
 BANDWIDTH: 20.0 MHz
 DISTANCE: 3 meters
 LIMIT: -13 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
3540.00	H	-	-	-57.49	7.24	-50.25	-37.2
5310.00	H	-	-	-60.96	11.51	-49.46	-36.5

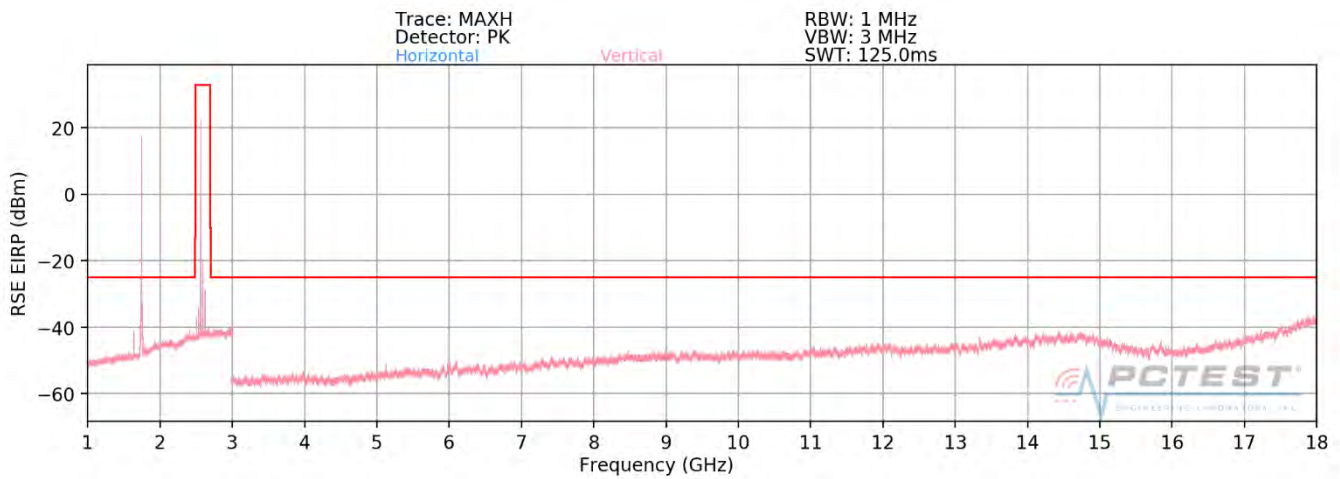
Table 7-55. Radiated Spurious Data (n66 – High Channel)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 – 01/09/20	EUT Type: Portable Handset		Page 430 of 434	

NR Band n41



Plot 7-696. Radiated Spurious Plot above 1GHz (n41 Standalone)



Plot 7-697. Radiated Spurious Plot above 1GHz (n41 - ANCHOR B66)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 – 01/09/20	EUT Type: Portable Handset		Page 431 of 434

OPERATING FREQUENCY: 2541.00 MHz
 MODULATION SIGNAL: QPSK (DFT-s-OFDM)
 BANDWIDTH: 90.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5082.00	H	102	359	-58.51	8.89	-49.62	-24.6
7623.00	H	156	259	-55.99	9.27	-46.72	-21.7
10164.00	H	-	-	-55.17	9.74	-45.43	-20.4
12705.00	H	-	-	-50.87	8.91	-41.96	-17.0

Table 7-56. Radiated Spurious Data (n41 – Low Channel)

OPERATING FREQUENCY: 2593.00 MHz
 MODULATION SIGNAL: QPSK (DFT-s-OFDM)
 BANDWIDTH: 90.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5186.00	H	171	180	-58.40	9.03	-49.38	-24.4
7779.00	H	-	-	-56.22	9.29	-46.93	-21.9
10372.00	H	-	-	-56.32	9.50	-46.82	-21.8

Table 7-57. Radiated Spurious Data (n41 – Mid Channel)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 – 01/09/20	EUT Type: Portable Handset		Page 432 of 434	



OPERATING FREQUENCY: 2644.98 MHz
 MODULATION SIGNAL: QPSK (DFT-s-OFDM)
 BANDWIDTH: 90.0 MHz
 DISTANCE: 3 meters
 LIMIT: -25 dBm

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
5289.96	H	168	259	-59.99	9.08	-50.91	-25.9
7934.94	H	140	306	-56.57	9.32	-47.25	-22.2
10579.92	H	-	-	-53.46	9.52	-43.94	-18.9
13224.90	H	-	-	-50.77	8.76	-42.02	-17.0

Table 7-58. Radiated Spurious Data (n41 - High Channel)

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 – 01/09/20	EUT Type: Portable Handset			Page 433 of 434

8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMG986W** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules.

FCC ID: A3LSMG986W		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1911010179-03.A3L	Test Dates: 10/11/19 – 01/09/20	EUT Type: Portable Handset		Page 434 of 434