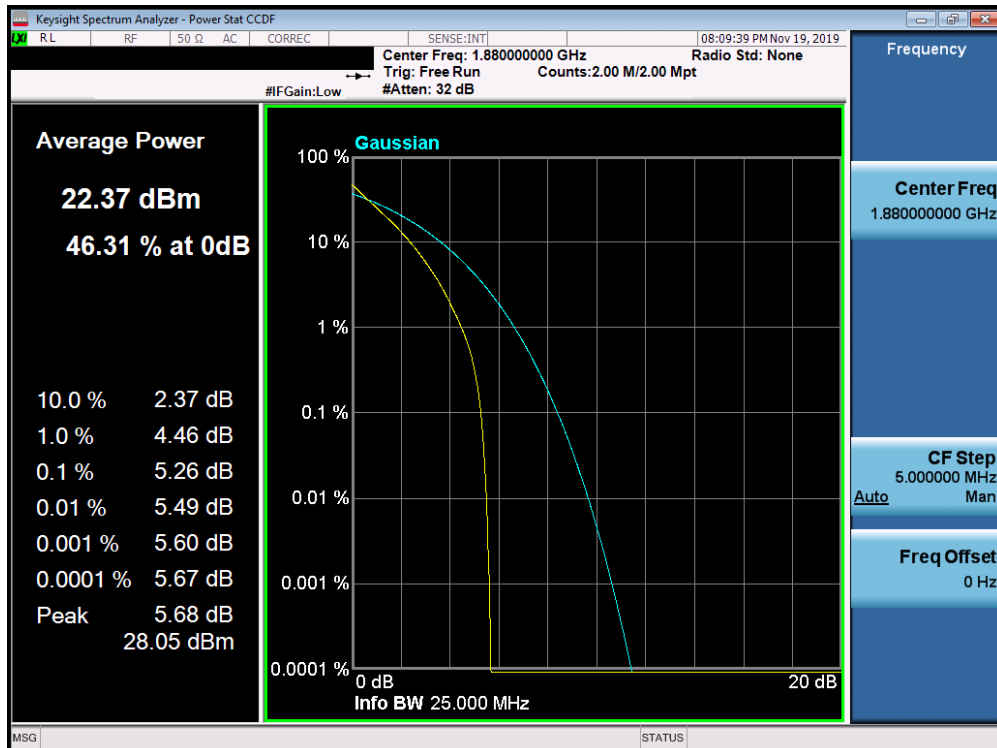
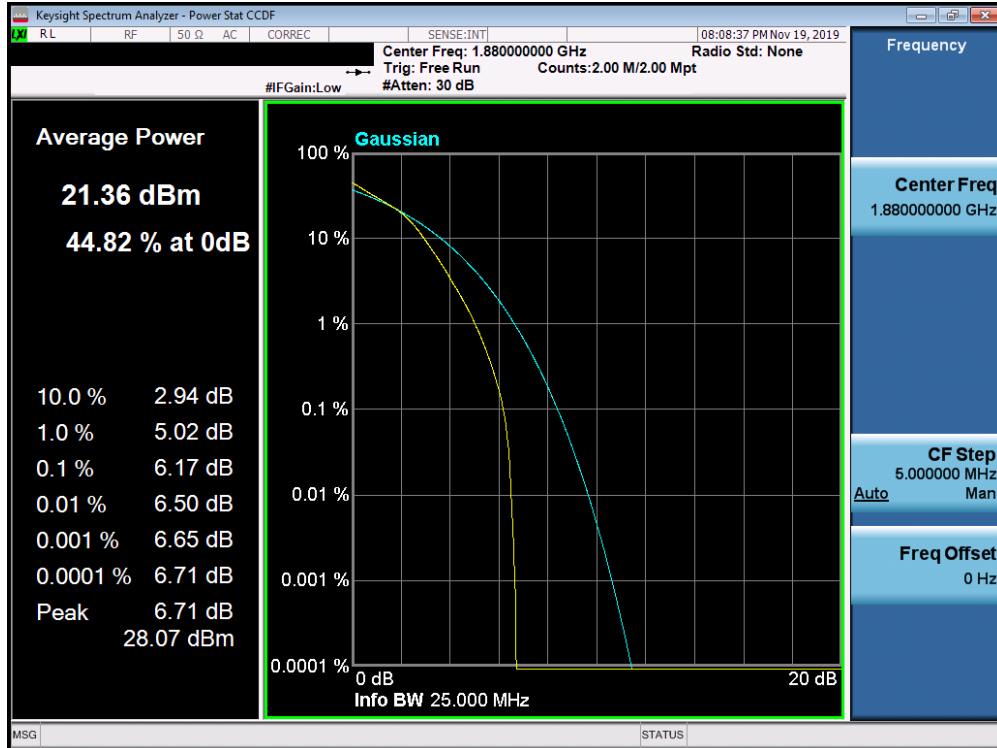


Plot 7-733. PAR Plot (Band n2 - 15.0MHz CP-OFDM 256-QAM - Full RB Configuration)

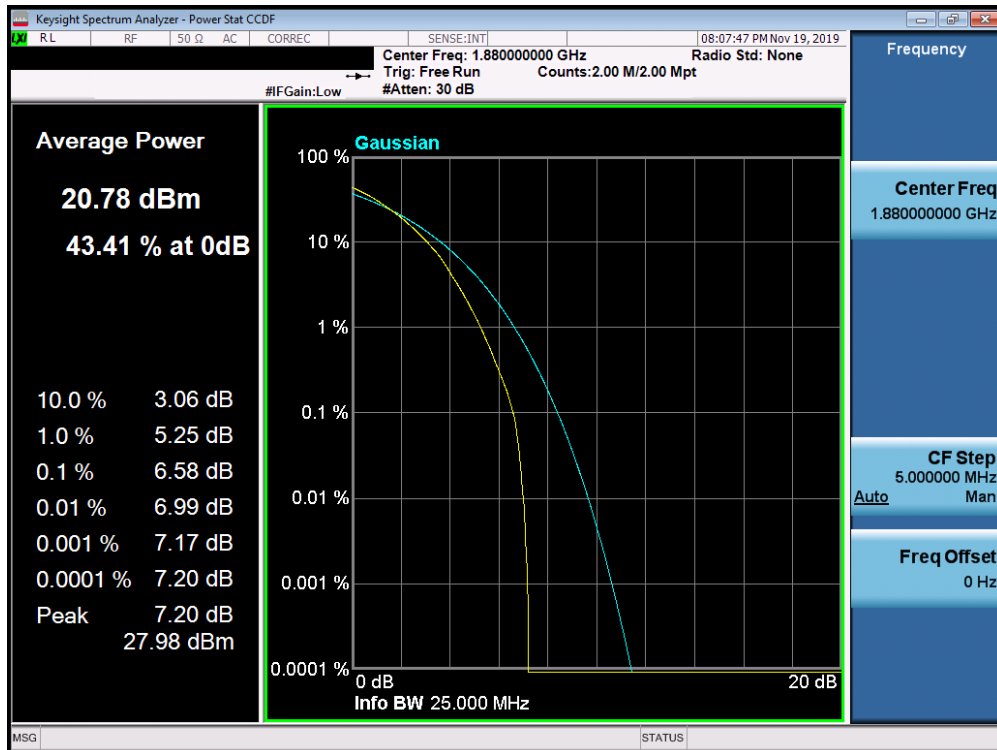


Plot 7-734. PAR Plot (Band n2 - 20.0MHz CP-OFDM-QPSK - Full RB Configuration)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 463 of 495

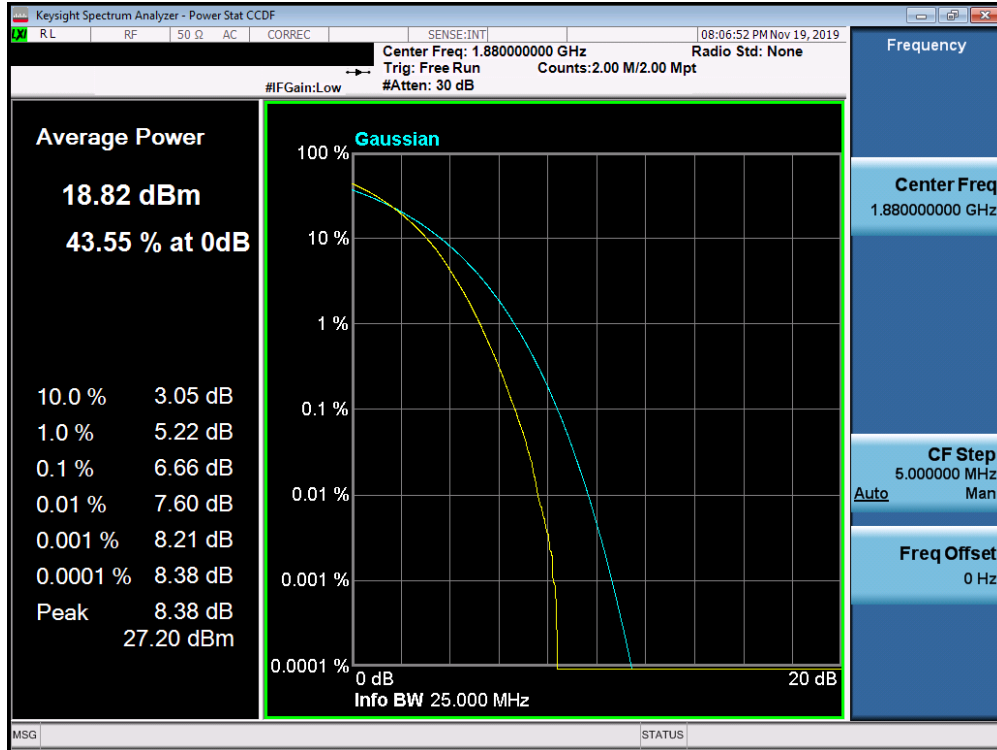


Plot 7-735. PAR Plot (Band n2 - 20.0MHz CP-OFDM-16-QAM - Full RB Configuration)



Plot 7-736. PAR Plot (Band n2 - 20.0MHz CP-OFDM-64-QAM - Full RB Configuration)

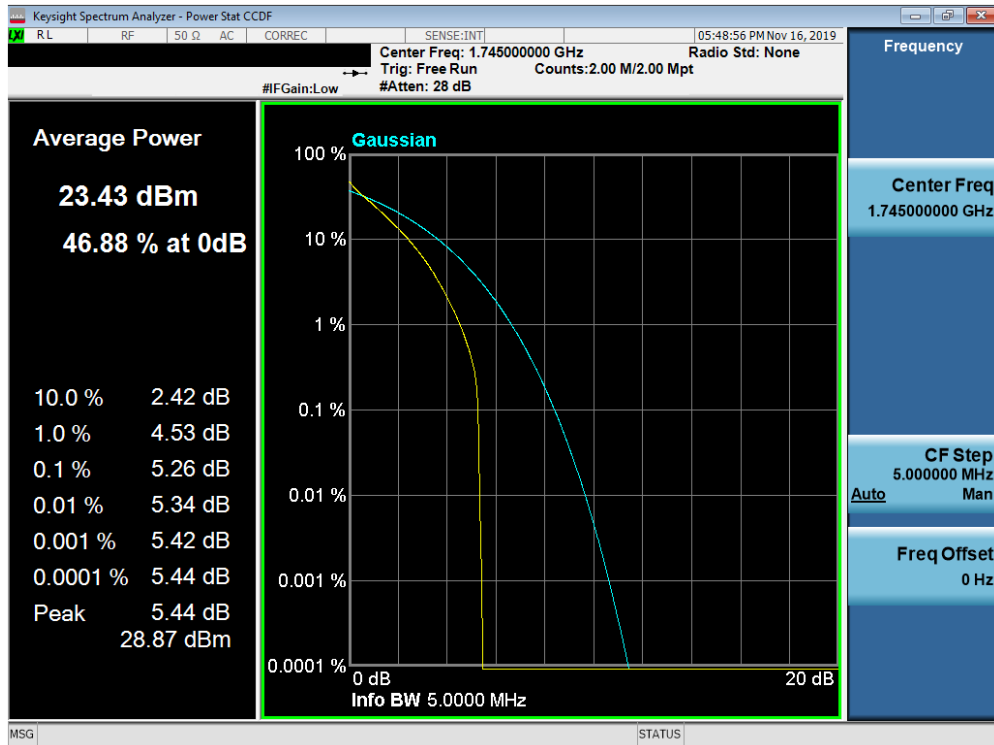
FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 464 of 495



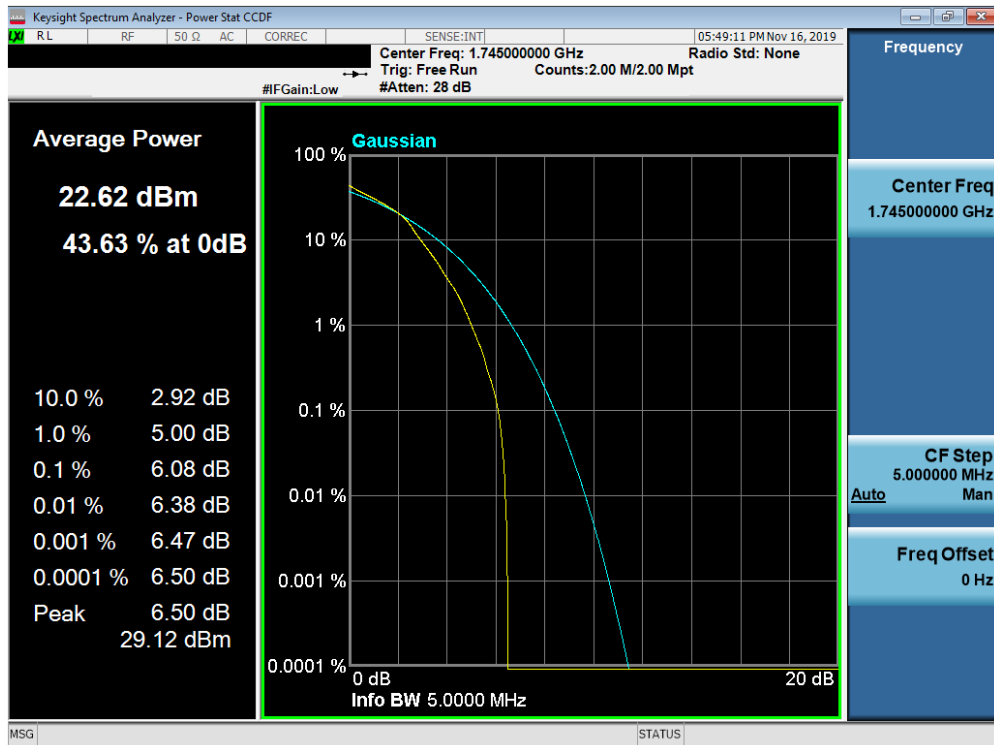
Plot 7-737. PAR Plot (Band n2 - 20.0MHz CP-OFDM- 256-QAM - Full RB Configuration)

FCC ID: A3LSMG986U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 465 of 495

**NR Band n66**

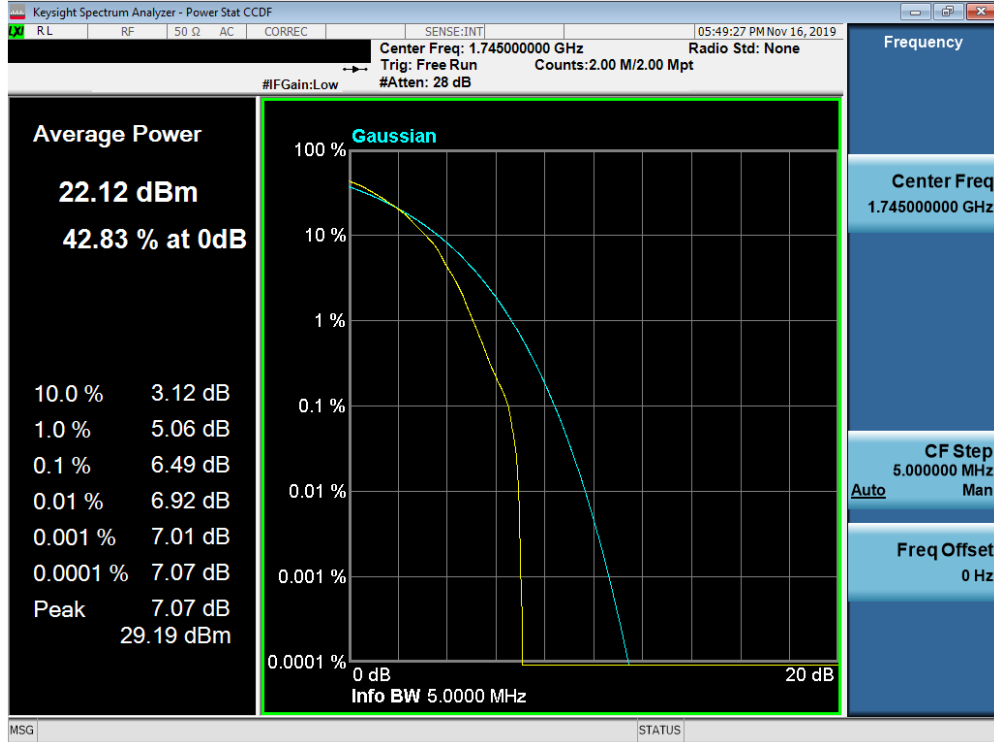


**Plot 7-738. PAR Plot (Band n66 - 5.0MHz CP-OFDM-QPSK - Full RB Configuration)**

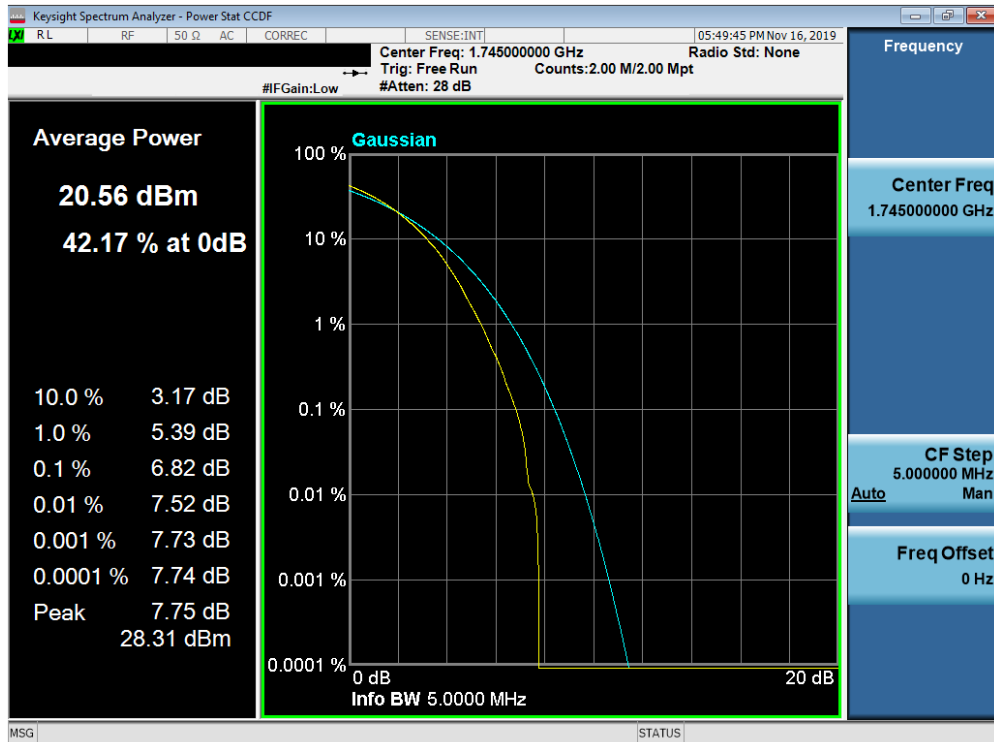


**Plot 7-739. PAR Plot (Band n66 - 5.0MHz CP-OFDM- 16-QAM - Full RB Configuration)**

FCC ID: A3LSMG986U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 466 of 495

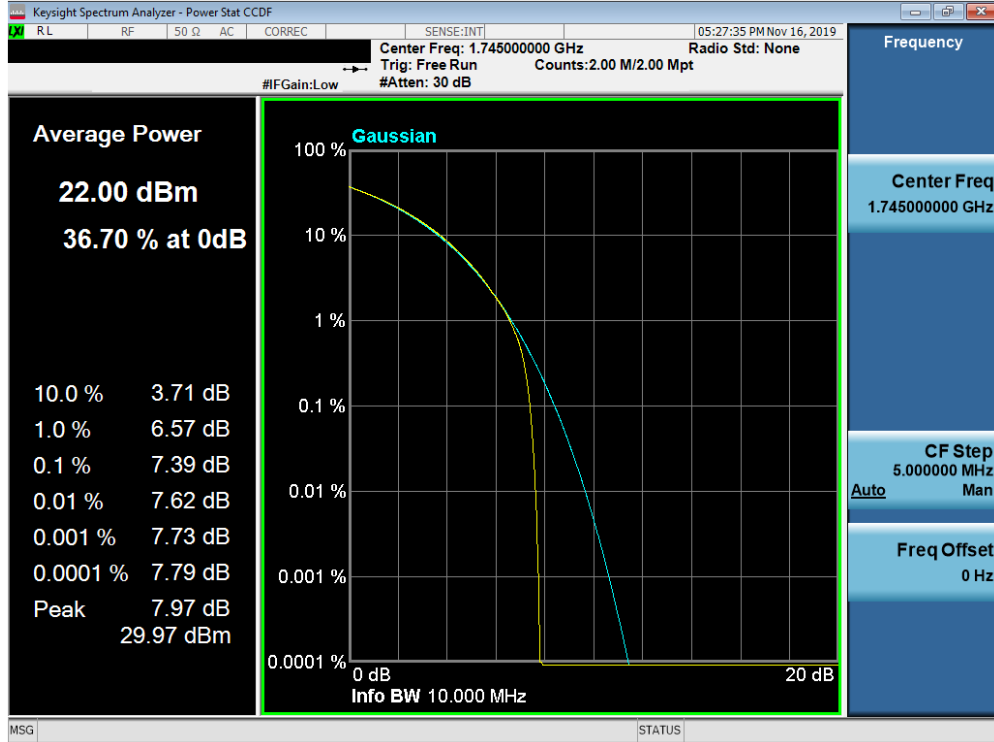


Plot 7-740. PAR Plot (Band n66 - 5.0MHz CP-OFDM- 64-QAM - Full RB Configuration)

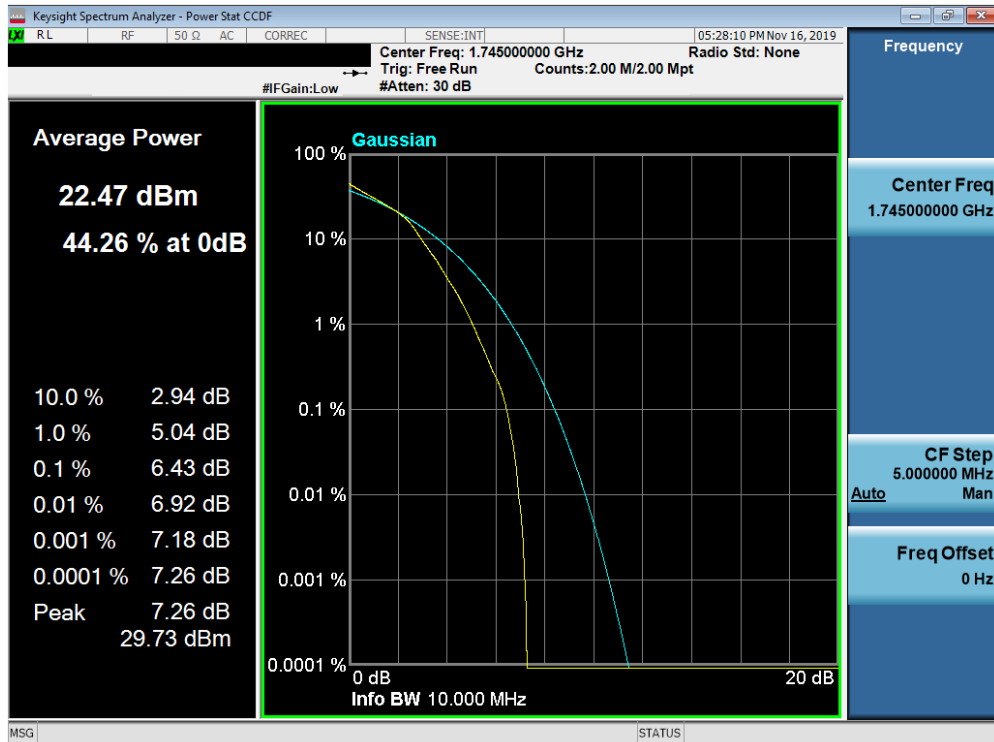


Plot 7-741. PAR Plot (Band n66 - 5.0MHz CP-OFDM- 256-QAM - Full RB Configuration)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 467 of 495

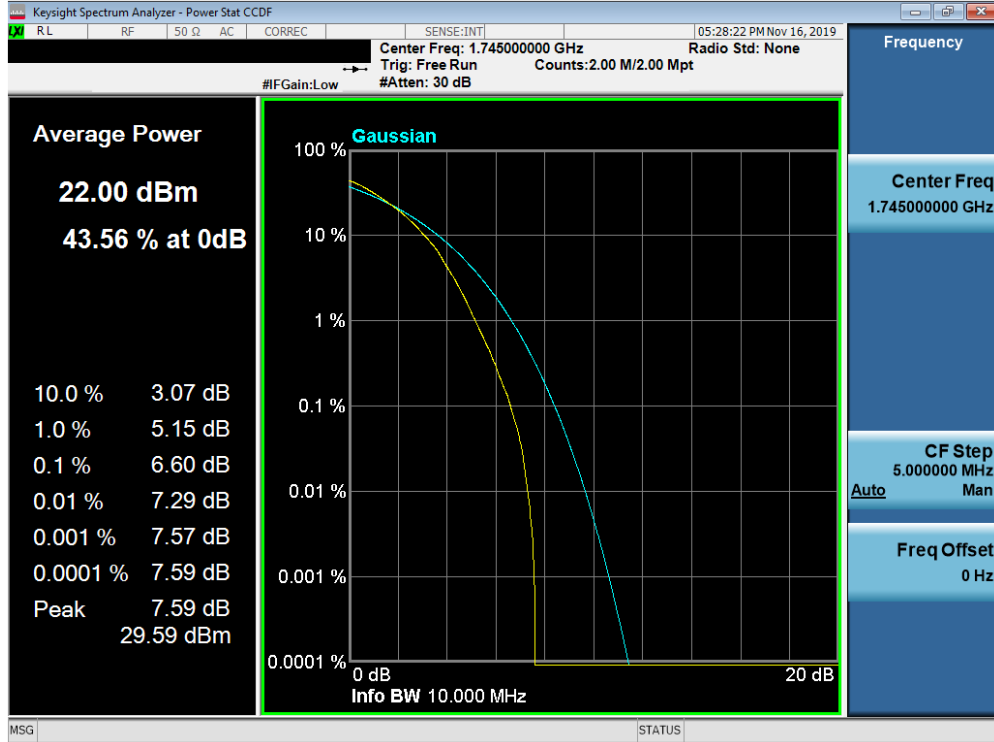


Plot 7-742. PAR Plot (Band n66 - 10.0MHz CP-OFDM-QPSK - Full RB Configuration)

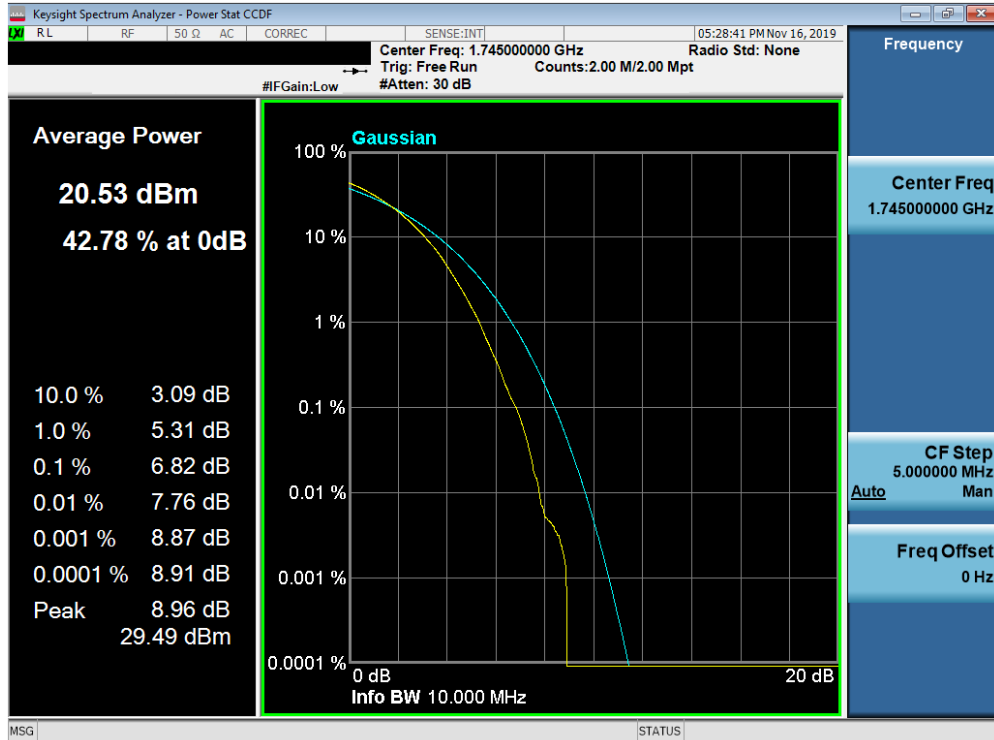


Plot 7-743. PAR Plot (Band n66 - 10.0MHz CP-OFDM-16-QAM - Full RB Configuration)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 468 of 495

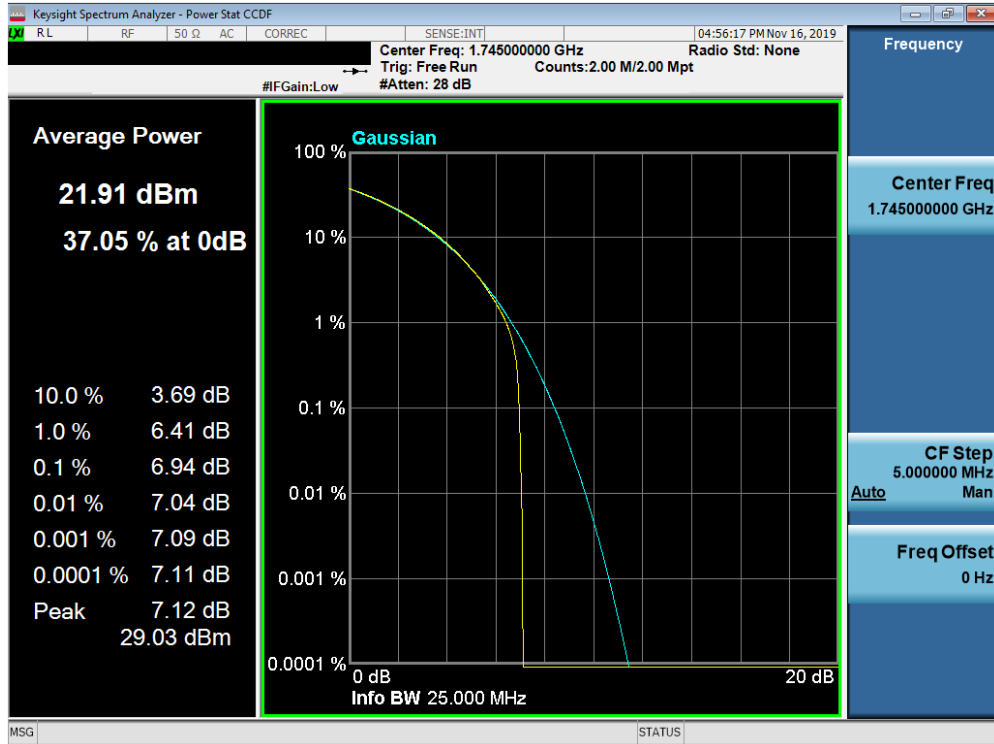


Plot 7-744. PAR Plot (Band n66 - 10.0MHz CP-OFDM- 64-QAM - Full RB Configuration)

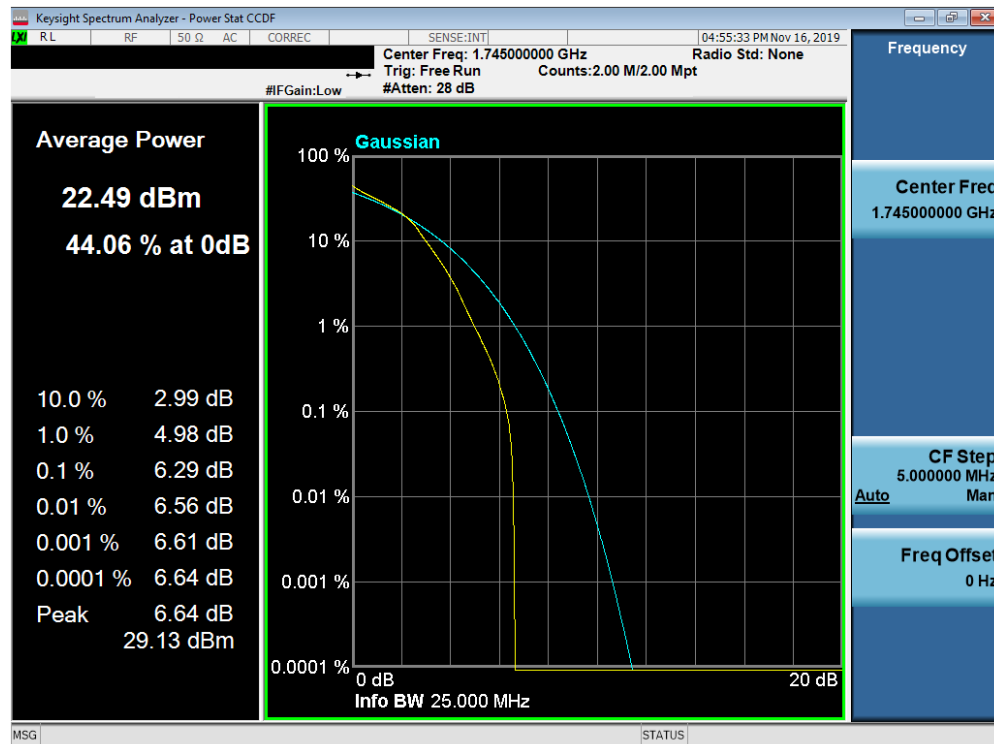


Plot 7-745. PAR Plot (Band n66 - 10.0MHz CP-OFDM- 256-QAM - Full RB Configuration)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 469 of 495



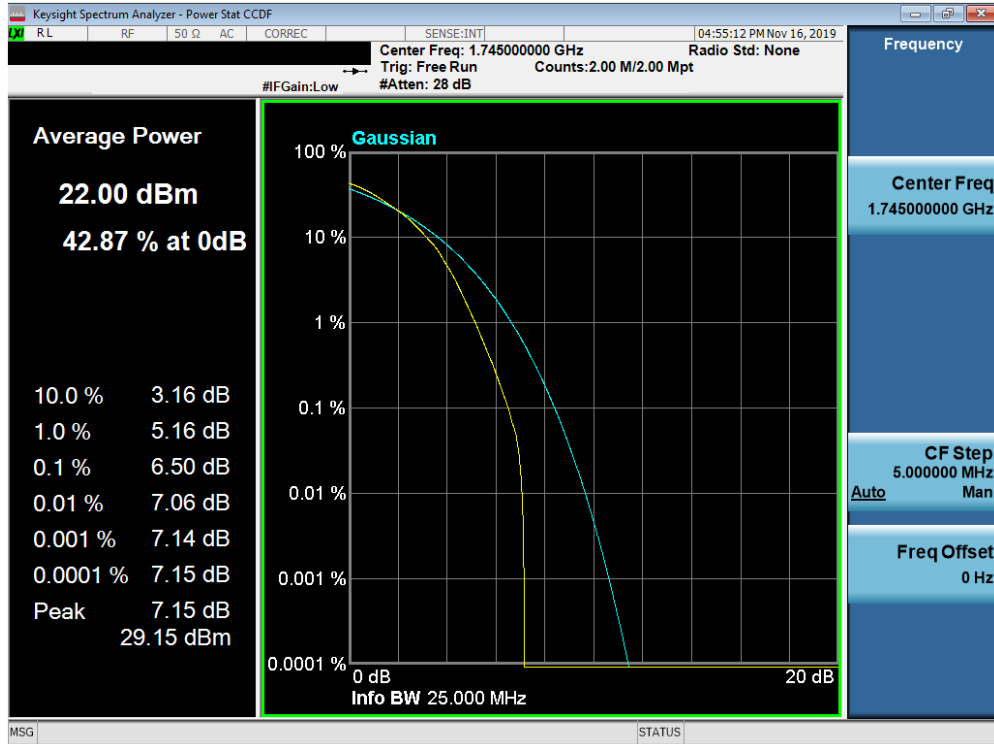
Plot 7-746. PAR Plot (Band n66 - 15.0MHz CP-OFDM-QPSK - Full RB Configuration)



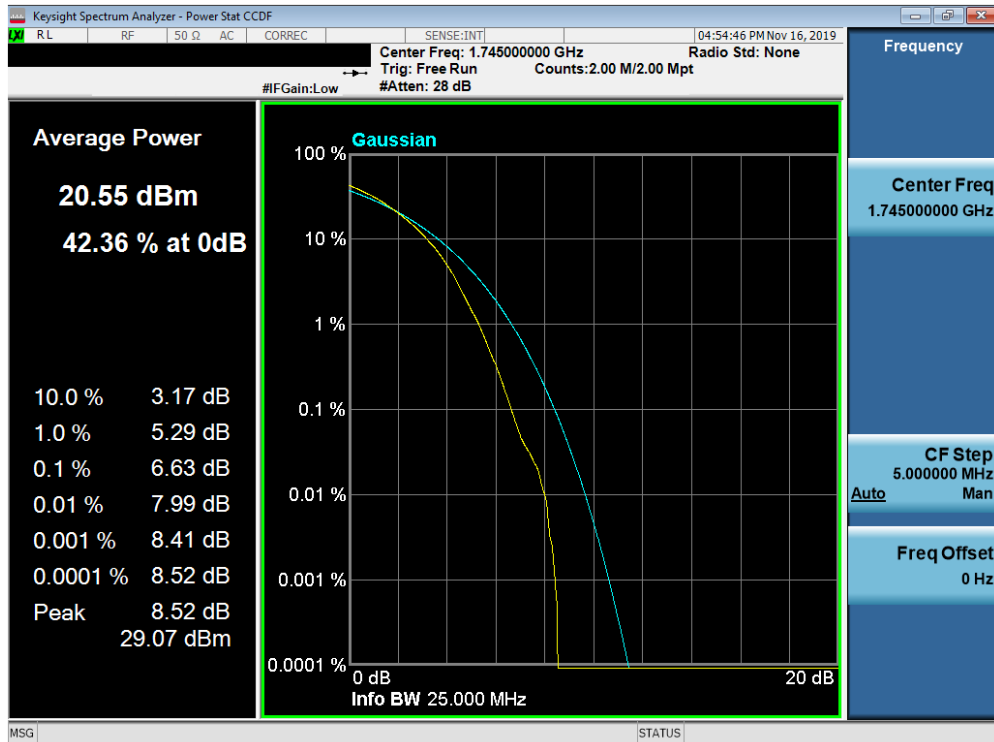
Plot 7-747. PAR Plot (Band n66 - 15.0MHz CP-OFDM- 16-QAM - Full RB Configuration)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 470 of 495



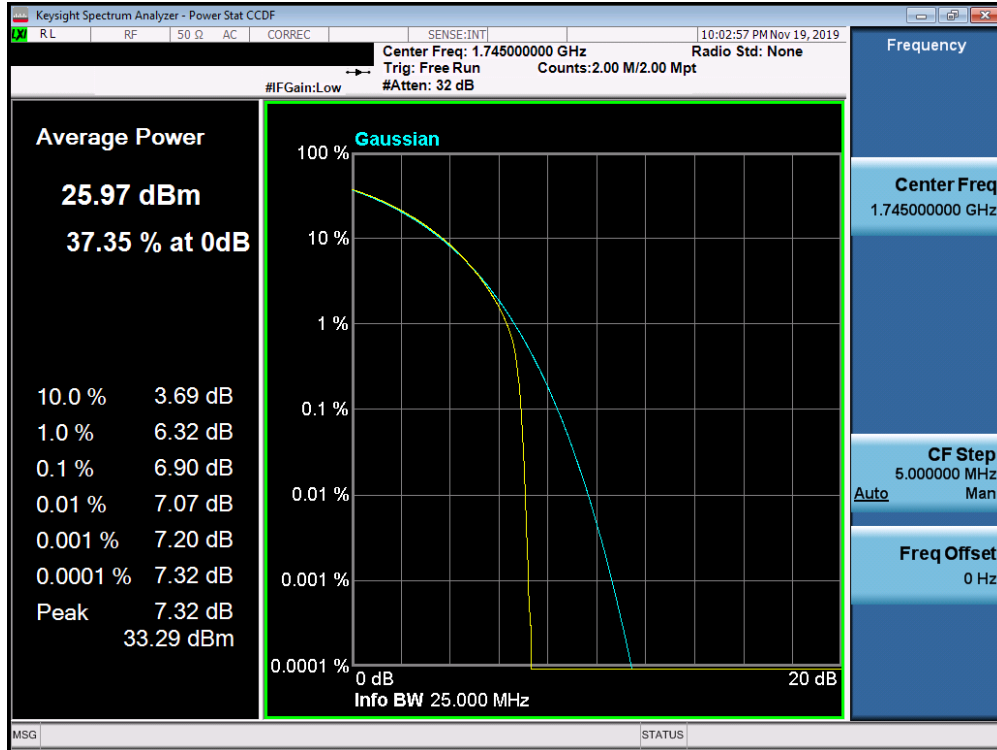


Plot 7-748. PAR Plot (Band n66 - 15.0MHz CP-OFDM- 64-QAM - Full RB Configuration)

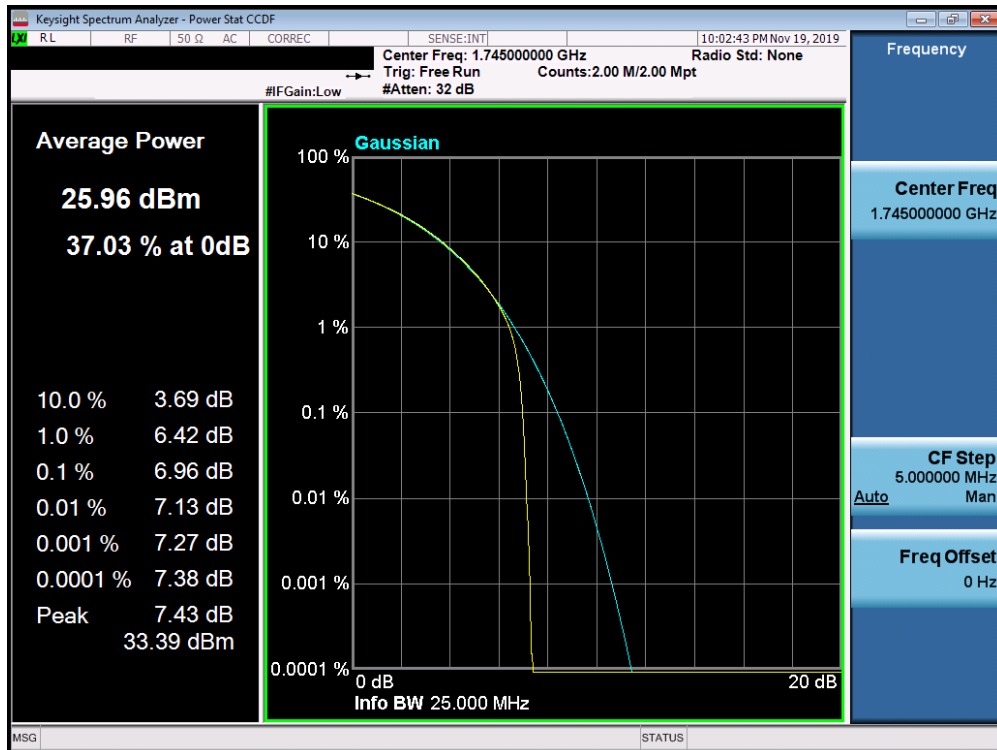


Plot 7-749. PAR Plot (Band n66 - 15.0MHz CP-OFDM- 256-QAM - Full RB Configuration)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 471 of 495

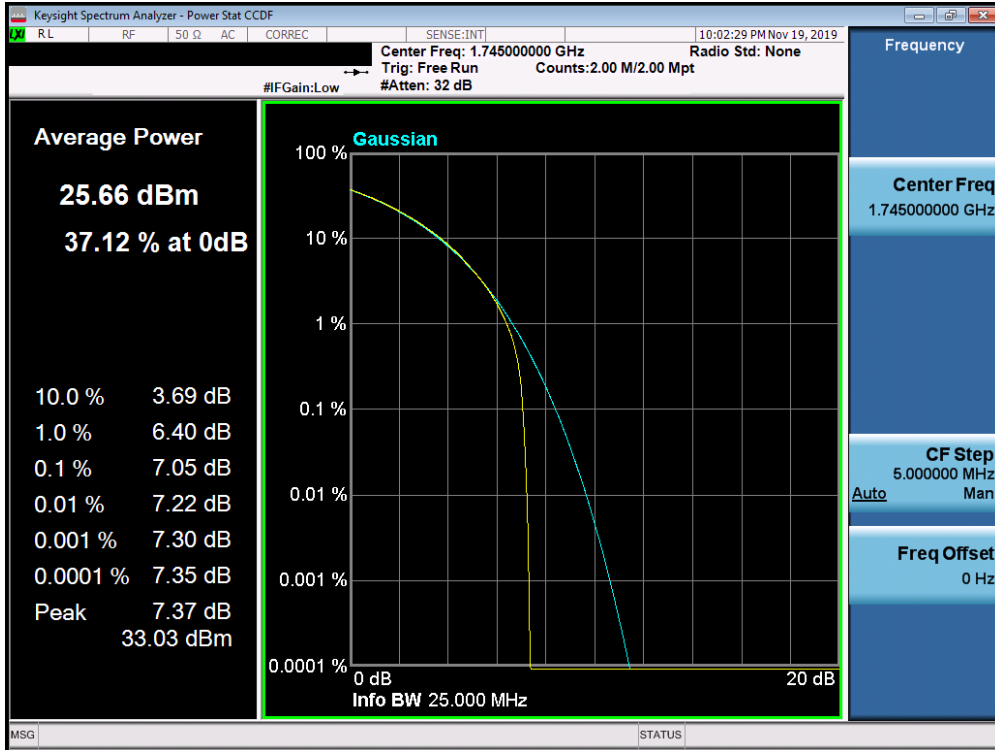


Plot 7-750. PAR Plot (Band n66 - 20.0MHz CP-OFDM-QPSK - Full RB Configuration)

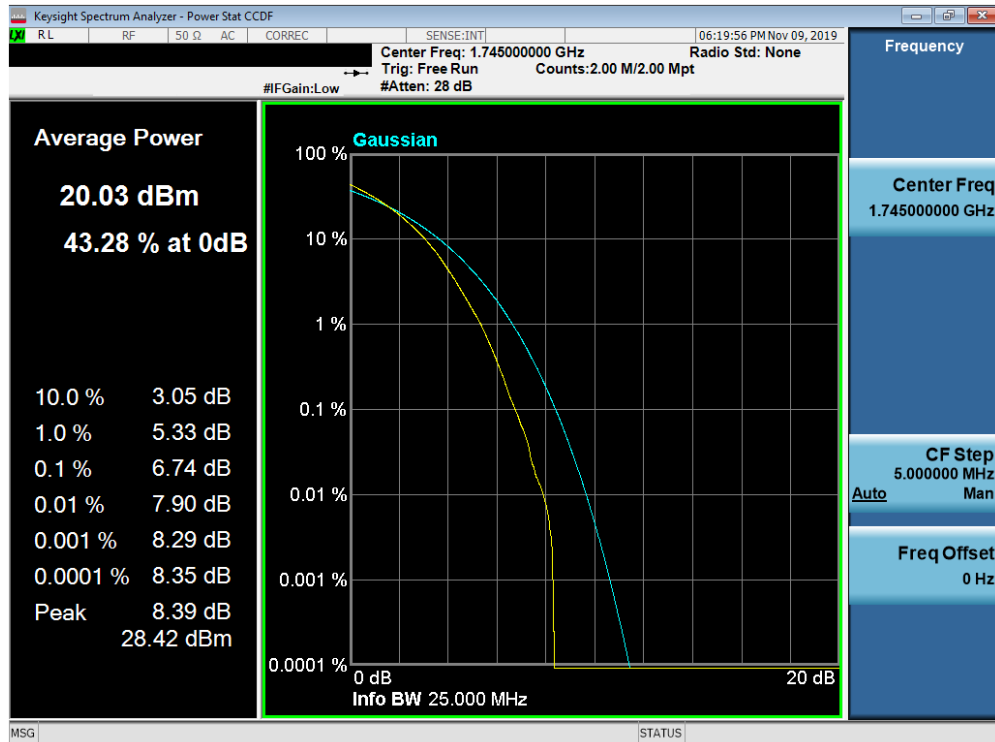


Plot 7-751. PAR Plot (Band n66 - 20.0MHz CP-OFDM-16-QAM - Full RB Configuration)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 472 of 495



Plot 7-752. PAR Plot (Band n66 - 20.0MHz CP-OFDM- 64-QAM - Full RB Configuration)



Plot 7-753. PAR Plot (Band n66 - 20.0MHz CP-OFDM- 256-QAM - Full RB Configuration)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 473 of 495

## 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 [dBi]	ERP [dBm]	ERP [Watts]	ERP Limit [dBm]	Margin [dB]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]
826.50	5	QPSK	H	102	289	1 / 5	10.56	6.30	14.71	0.030	38.45	-23.74	16.86	0.049	40.61
836.50	5	QPSK	H	102	285	1 / 5	10.91	6.40	15.16	0.033	38.45	-23.29	17.31	0.054	40.61
846.50	5	QPSK	H	202	288	3 / 2	12.84	6.50	<b>17.19</b>	0.052	38.45	-21.26	<b>19.34</b>	0.086	40.61
846.50	5	16-QAM	H	202	288	3 / 2	12.67	6.50	<b>17.02</b>	0.050	38.45	-21.43	<b>19.17</b>	0.083	40.61
846.50	5	64-QAM	H	202	288	3 / 2	11.31	6.50	<b>15.66</b>	0.037	38.45	-22.79	<b>17.81</b>	0.060	40.61
846.50	5	256-QAM	H	202	288	3 / 2	9.09	6.50	<b>13.44</b>	<b>0.022</b>	38.45	-25.01	<b>15.59</b>	<b>0.036</b>	40.61
829.00	10	QPSK	H	101	290	1 / 14	10.52	6.30	14.67	0.029	38.45	-23.78	16.82	0.048	40.61
836.50	10	QPSK	H	103	290	1 / 14	10.93	6.40	15.18	0.033	38.45	-23.27	17.33	0.054	40.61
844.00	10	QPSK	H	202	288	8 / 4	12.97	6.40	<b>17.22</b>	0.053	38.45	-21.23	<b>19.37</b>	0.086	40.61
844.00	10	16-QAM	H	202	288	8 / 4	12.43	6.40	<b>16.68</b>	0.047	38.45	-21.77	<b>18.83</b>	0.076	40.61
844.00	10	64-QAM	H	202	288	8 / 4	11.42	6.40	<b>15.67</b>	0.037	38.45	-22.78	<b>17.82</b>	0.061	40.61
844.00	10	256-QAM	H	202	288	8 / 4	9.73	6.40	<b>13.98</b>	<b>0.025</b>	38.45	-24.47	<b>16.13</b>	<b>0.041</b>	40.61
831.50	15	QPSK	H	101	289	1 / 24	10.35	6.35	14.55	0.029	38.45	-23.90	16.70	0.047	40.61
836.50	15	QPSK	H	103	294	1 / 24	10.78	6.40	15.03	0.032	38.45	-23.42	17.18	0.052	40.61
841.50	15	QPSK	H	205	288	12 / 6	12.44	6.40	<b>16.69</b>	0.047	38.45	-21.76	<b>18.84</b>	0.077	40.61
841.50	15	16-QAM	H	205	288	12 / 6	11.83	6.40	<b>16.08</b>	0.041	38.45	-22.37	<b>18.23</b>	0.067	40.61
841.50	15	64-QAM	H	205	288	12 / 6	11.61	6.40	<b>15.86</b>	0.039	38.45	-22.59	<b>18.01</b>	0.063	40.61
841.50	15	256-QAM	H	205	288	12 / 6	9.43	6.40	<b>13.68</b>	<b>0.023</b>	38.45	-24.77	<b>15.83</b>	<b>0.038</b>	40.61
834.00	20	QPSK	H	101	289	1 / 104	10.84	6.40	15.09	0.032	38.45	-23.36	17.24	0.053	40.61
836.50	20	QPSK	H	103	294	1 / 104	11.04	6.40	15.29	0.034	38.45	-23.16	17.44	0.055	40.61
839.00	20	QPSK	H	205	288	1 / 53	13.17	6.40	<b>17.42</b>	<b>0.055</b>	38.45	-21.03	<b>19.57</b>	<b>0.091</b>	40.61
839.00	20	16-QAM	H	205	288	25 / 12	12.47	6.40	<b>16.72</b>	0.047	38.45	-21.73	<b>18.87</b>	0.077	40.61
839.00	20	64-QAM	H	205	288	25 / 12	11.18	6.40	<b>15.43</b>	0.035	38.45	-23.02	<b>17.58</b>	0.057	40.61
839.00	20	256-QAM	H	205	288	25 / 12	9.60	6.40	<b>13.85</b>	<b>0.024</b>	38.45	-24.60	<b>16.00</b>	<b>0.040</b>	40.61
839.00	20	QPSK	V	139	282	1 / 53	12.08	6.40	16.33	0.043	38.45	-22.12	18.48	0.070	40.61
839.00	20 (WCP)	QPSK	H	180	247	1 / 53	4.30	6.40	8.55	<b>0.007</b>	38.45	-29.90	10.70	<b>0.012</b>	40.61
839.00	20 (CP- OFDM)	QPSK	H	210	279	1 / 53	12.16	6.40	16.41	0.044	38.45	-22.04	18.56	0.072	40.61

Table 7-68. ERP Data (n5)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset	Page 474 of 495	

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	<b>13.80</b>	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	<b>13.04</b>	0.020	34.77	-21.73
665.50	5	64-QAM	V	180	328	12 / 6	13.97	0.75	<b>12.57</b>	0.018	34.77	-22.20
665.50	5	256-QAM	V	180	330	12 / 6	11.70	0.75	<b>10.30</b>	0.011	34.77	-24.47
668.00	10	QPSK	V	180	328	25 / 12	15.46	0.75	<b>14.06</b>	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	<b>12.83</b>	0.019	34.77	-21.94
668.00	10	64-QAM	V	180	328	25 / 12	13.11	0.75	<b>11.71</b>	0.015	34.77	-23.06
668.00	10	256-QAM	V	180	328	25 / 12	11.47	0.75	<b>10.07</b>	<b>0.010</b>	34.77	-24.70
670.50	15	QPSK	V	180	328	36 / 18	15.31	0.85	<b>14.01</b>	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	<b>13.03</b>	0.020	34.77	-21.74
670.50	15	64-QAM	V	180	334	36 / 18	13.88	0.85	<b>12.58</b>	0.018	34.77	-22.19
670.50	15	256-QAM	V	180	340	36 / 18	11.94	0.85	<b>10.64</b>	<b>0.012</b>	34.77	-24.13
673.00	20	QPSK	V	180	328	1 / 53	15.82	0.95	<b>14.62</b>	<b>0.029</b>	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	<b>13.64</b>	0.023	34.77	-21.13
673.00	20	64-QAM	V	182	335	50 / 25	14.14	0.95	<b>12.94</b>	0.020	34.77	-21.83
673.00	20	256-QAM	V	181	330	50 / 25	11.90	0.95	<b>10.70</b>	<b>0.012</b>	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	<b>0.006</b>	34.77	-26.98

**Table 7-69. ERP Data (n71)**

FCC ID: A3LSMG986U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>			Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 475 of 495	

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	<b>22.63</b>	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	<b>21.60</b>	0.144	30.00	-8.40
1745.00	5	64-QAM	V	110	335	1 / 0	10.80	9.11	<b>19.91</b>	0.098	30.00	-10.09
1745.00	5	256-QAM	V	110	335	1 / 0	8.50	9.11	<b>17.61</b>	<b>0.058</b>	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	<b>22.48</b>	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	<b>21.53</b>	0.142	30.00	-8.47
1745.00	10	64-QAM	V	107	330	1 / 0	10.57	9.11	<b>19.68</b>	0.093	30.00	-10.32
1745.00	10	256-QAM	V	107	330	1 / 0	8.81	9.11	<b>17.92</b>	<b>0.062</b>	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	<b>22.30</b>	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	<b>21.12</b>	0.129	30.00	-8.88
1745.00	15	64-QAM	V	107	331	1 / 0	10.77	9.11	<b>19.88</b>	0.097	30.00	-10.12
1745.00	15	256-QAM	V	107	331	1 / 0	9.32	9.11	<b>18.43</b>	<b>0.070</b>	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	<b>22.72</b>	<b>0.187</b>	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	<b>21.75</b>	0.150	30.00	-8.25
1745.00	20	64-QAM	V	107	332	1 / 0	11.37	9.11	<b>20.48</b>	0.112	30.00	-9.52
1745.00	20	256-QAM	V	107	332	1 / 0	9.40	9.11	<b>18.51</b>	<b>0.071</b>	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	<b>0.091</b>	30.00	-10.42

Table 7-70. EIRP Data (n66)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset	Page 476 of 495	

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]
1852.50	5	QPSK	V	132	345	12 / 6	11.43	9.51	20.94	0.124	33.01	-12.07
1880.00	5	QPSK	V	132	345	12 / 6	11.20	9.90	<b>21.10</b>	0.129	33.01	-11.91
1907.50	5	QPSK	V	168	345	12 / 6	6.80	10.24	17.04	0.051	33.01	-15.97
1852.50	5	16-QAM	V	132	345	12 / 6	10.86	9.51	<b>20.37</b>	0.109	33.01	-12.64
1880.00	5	64-QAM	V	132	345	12 / 6	9.98	9.90	<b>19.88</b>	0.097	33.01	-13.13
1880.00	5	256-QAM	V	132	345	12 / 6	7.56	9.90	<b>17.46</b>	<b>0.056</b>	33.01	-15.55
1855.00	10	QPSK	V	135	340	25 / 12	11.39	9.55	20.93	0.124	33.01	-12.08
1880.00	10	QPSK	V	131	340	25 / 12	11.41	9.90	<b>21.31</b>	0.135	33.01	-11.70
1905.00	10	QPSK	V	170	290	25 / 12	7.07	10.22	17.29	0.054	33.01	-15.72
1855.00	10	16-QAM	V	135	340	25 / 12	10.89	9.55	<b>20.43</b>	0.110	33.01	-12.58
1880.00	10	64-QAM	V	131	340	25 / 12	9.56	9.90	<b>19.46</b>	0.088	33.01	-13.55
1880.00	10	256-QAM	V	131	340	25 / 12	7.67	9.90	<b>17.57</b>	<b>0.057</b>	33.01	-15.44
1857.50	15	QPSK	V	136	335	36 / 18	11.51	9.58	<b>21.09</b>	0.129	33.01	-11.92
1880.00	15	QPSK	V	135	340	36 / 18	11.08	9.90	20.98	0.125	33.01	-12.03
1902.50	15	QPSK	V	166	289	36 / 18	7.18	10.20	17.38	0.055	33.01	-15.63
1880.00	15	16-QAM	V	135	340	36 / 18	10.94	9.90	<b>20.84</b>	0.121	33.01	-12.17
1880.00	15	64-QAM	V	135	340	36 / 18	9.69	9.90	<b>19.59</b>	0.091	33.01	-13.42
1880.00	15	256-QAM	V	135	340	36 / 18	7.70	9.90	<b>17.60</b>	<b>0.058</b>	33.01	-15.41
1860.00	20	QPSK	V	136	334	1 / 53	11.54	9.62	21.16	0.131	33.01	-11.85
1880.00	20	QPSK	V	131	348	1 / 53	11.62	9.90	<b>21.52</b>	<b>0.142</b>	33.01	-11.49
1900.00	20	QPSK	V	166	289	1 / 53	7.18	10.18	17.36	0.054	33.01	-15.65
1880.00	20	16-QAM	V	131	348	50 / 25	10.88	9.90	<b>20.78</b>	0.120	33.01	-12.23
1880.00	20	64-QAM	V	131	348	50 / 25	9.61	9.90	<b>19.51</b>	0.089	33.01	-13.50
1880.00	20	256-QAM	V	131	348	50 / 25	7.43	9.90	<b>17.33</b>	<b>0.054</b>	33.01	-15.68
1880.00	20	QPSK	H	115	4	1 / 53	8.33	9.90	18.23	0.067	33.01	-14.78
1880.00	20 (WCP)	QPSK	V	180	226	1 / 53	3.54	9.90	13.44	0.022	33.01	-19.57
1880.00	20 (CP-OFDM)	QPSK	V	144	333	1 / 53	9.63	9.90	19.53	<b>0.090</b>	33.01	-13.48

Table 7-71. EIRP Data (n2)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset	Page 477 of 495	

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	<b>21.11</b>	<b>0.129</b>	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	<b>19.00</b>	0.079	33.01	-14.01
2592.99	20	64-QAM	V	145	315	12 / 6	8.33	9.56	<b>17.89</b>	0.062	33.01	-15.12
2506.02	20	256-QAM	V	115	325	12 / 6	6.43	9.40	<b>15.83</b>	<b>0.038</b>	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	<b>20.79</b>	<b>0.120</b>	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	<b>18.76</b>	0.075	33.01	-14.25
2516.01	40	64-QAM	V	115	325	12 / 6	8.31	9.40	<b>17.71</b>	0.059	33.01	-15.30
2516.01	40	256-QAM	V	115	325	12 / 6	6.83	9.40	<b>16.23</b>	<b>0.042</b>	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	<b>20.95</b>	<b>0.124</b>	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	<b>19.83</b>	0.096	33.01	-13.18
2521.02	50	64-QAM	V	120	320	12 / 6	9.67	9.40	<b>19.07</b>	0.081	33.01	-13.94
2521.02	50	256-QAM	V	120	320	12 / 6	7.94	9.40	<b>17.34</b>	<b>0.054</b>	33.01	-15.67

Table 7-72. EIRP (n41)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 478 of 495	



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	<b>19.34</b>	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	<b>18.87</b>	0.077	33.01	-14.14
2526.00	60	64-QAM	V	120	320	12 / 6	8.45	9.40	<b>17.85</b>	0.061	33.01	-15.16
2526.00	60	256-QAM	V	120	320	12 / 6	7.03	9.40	<b>16.43</b>	<b>0.044</b>	33.01	-16.58
2536.00	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
2650.00	80	QPSK	V	133	234	1 / 49	10.70	9.68	<b>20.38</b>	0.109	33.01	-12.63
2501.00	80	16-QAM	V	117	312	25 / 12	9.48	9.40	<b>18.88</b>	0.077	33.01	-14.13
2593.00	80	64-QAM	V	145	308	25 / 12	8.28	9.56	<b>17.84</b>	0.061	33.01	-15.17
2501.00	80	256-QAM	V	117	312	25 / 12	7.33	9.40	<b>16.73</b>	<b>0.047</b>	33.01	-16.28
2540.50	90	QPSK	V	120	309	36 / 18	12.17	9.39	<b>21.56</b>	<b>0.143</b>	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
2645.00	90	QPSK	V	123	310	1 / 0	4.38	9.68	14.06	0.025	33.01	-18.95
2540.50	90	16-QAM	V	120	309	36 / 18	11.67	9.39	<b>21.06</b>	0.128	33.01	-11.95
2540.50	90	64-QAM	V	120	309	36 / 18	9.73	9.39	<b>19.12</b>	0.082	33.01	-13.89
2540.50	90	256-QAM	V	120	309	36 / 18	7.65	9.39	<b>17.04</b>	<b>0.051</b>	33.01	-15.97
2546.01	100	QPSK	V	139	315	1 / 137	11.51	9.39	<b>20.90</b>	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
2510.00	100	16-QAM	V	115	236	50 / 25	11.01	9.39	<b>20.40</b>	0.110	33.01	-12.61
2506.00	100	64-QAM	V	139	315	50 / 25	10.17	9.39	<b>19.56</b>	0.090	33.01	-13.45
2506.00	100	256-QAM	V	139	315	50 / 25	8.39	9.39	<b>17.78</b>	<b>0.060</b>	33.01	-15.23
2540.50	90 (WCP)	QPSK	H	145	310	36 / 18	8.90	9.56	18.46	0.070	33.01	-14.55
2540.50	90 (CP-OFDM)	QPSK	V	147	334	36 / 18	10.00	9.56	19.56	0.090	33.01	-13.45

Table 7-73. EIRP (n41)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 479 of 495	

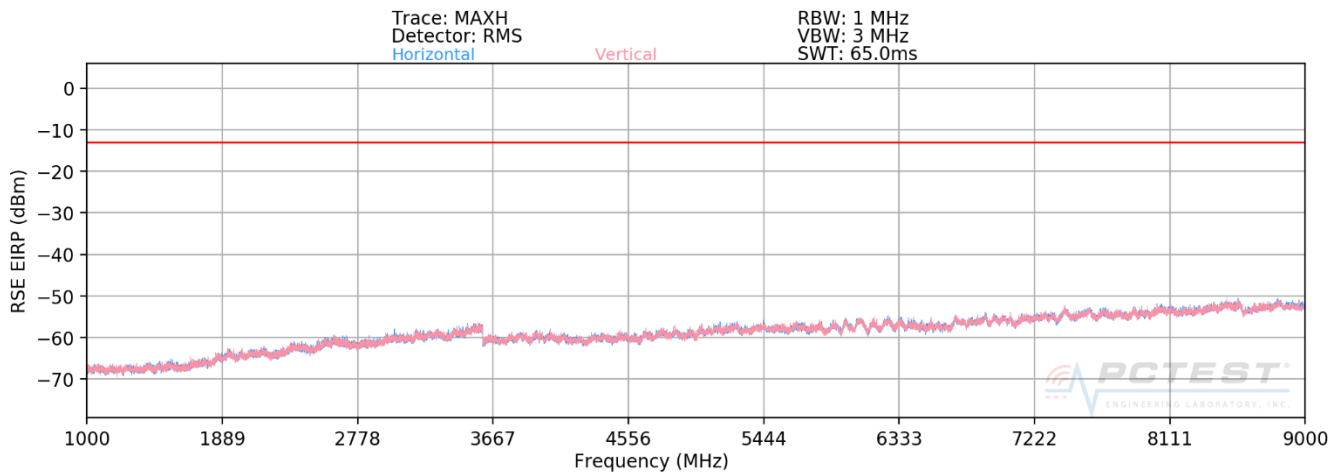
## Radiated Spurious Emissions Measurements

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.

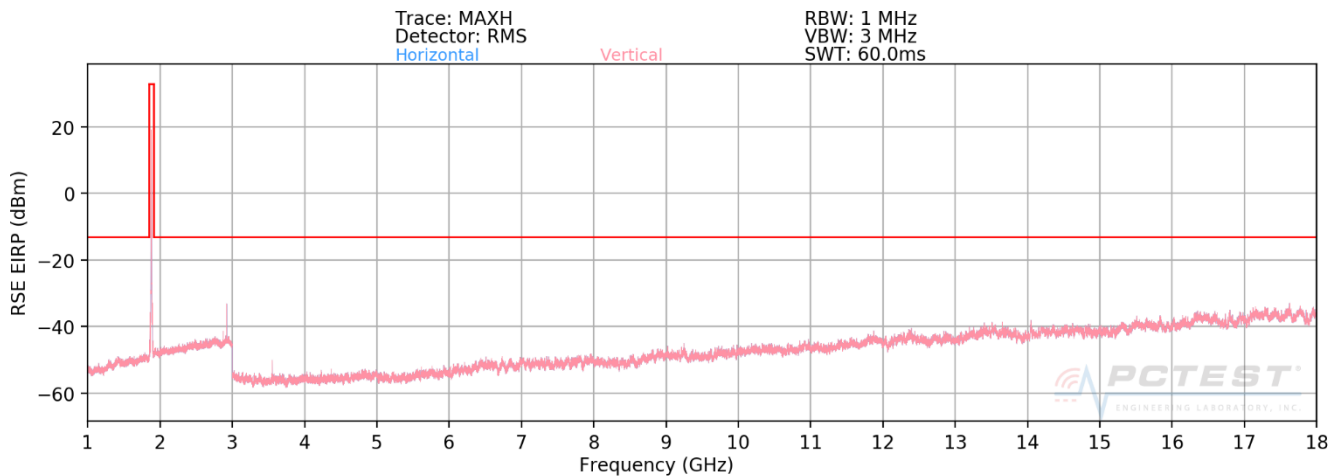
Per FCC Guidance, KDB 328880, Radiated Spurious Measurements were made based of the worst case modulation and RB configuration as determined by EIRP measurement, and grouping the available combinations by Low Band, Mid Band, and High Band.

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 n5

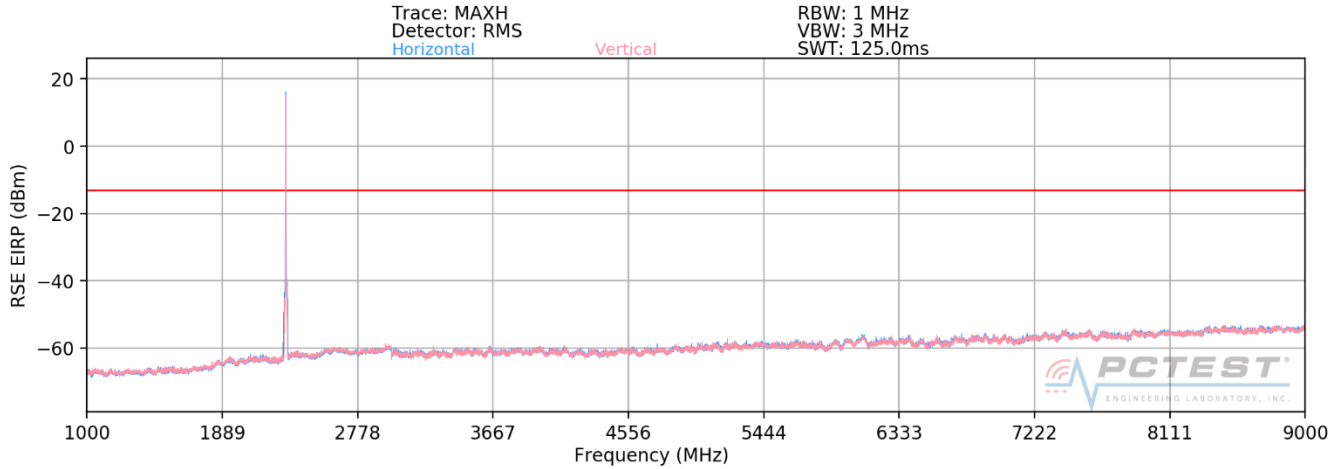


**Plot 7-754. Radiated Spurious Plot above 1GHz (n5 Standalone)**

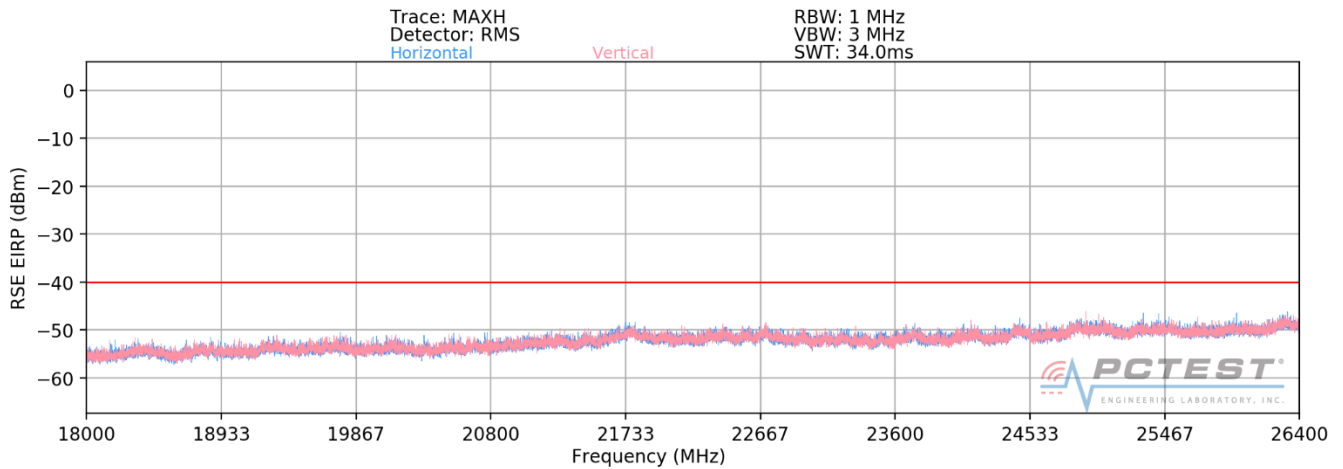


**Plot 7-755. Radiated Spurious Plot above 1GHz (n5 EN-DC - ANCHOR B2)**

FCC ID: A3LSMG986U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 - 01/09/2020	EUT Type: Portable Handset		Page 480 of 495



**Plot 7-756. Radiated Spurious Plot above 1GHz (n5 EN-DC – ANCHOR B30)**



**Plot 7-757. Radiated Spurious Plot above 18GHz (n5 EN-DC – ANCHOR B30)**

FCC ID: A3LSMG986U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 481 of 495

OPERATING FREQUENCY: 834.00 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]
1668.00	V	-	-	-64.22	9.54	-54.68	-41.7
2502.00	V	113	7	-56.58	9.43	-47.15	-34.2
3336.00	V	-	-	-59.76	7.36	-52.40	-39.4
4170.00	V	-	-	-59.08	8.12	-50.96	-38.0

**Table 7-74. Radiated Spurious Data (n5 – Low Channel)**

OPERATING FREQUENCY: 836.50 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]
1673.00	V	-	-	-67.98	9.54	-58.44	-45.4
2509.50	V	106	118	-57.13	9.42	-47.71	-34.7
3346.00	V	-	-	-58.10	7.32	-50.79	-37.8
4182.50	V	-	-	-58.30	8.16	-50.14	-37.1

**Table 7-75. Radiated Spurious Data (n5 – Mid Channel)**

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 482 of 495	

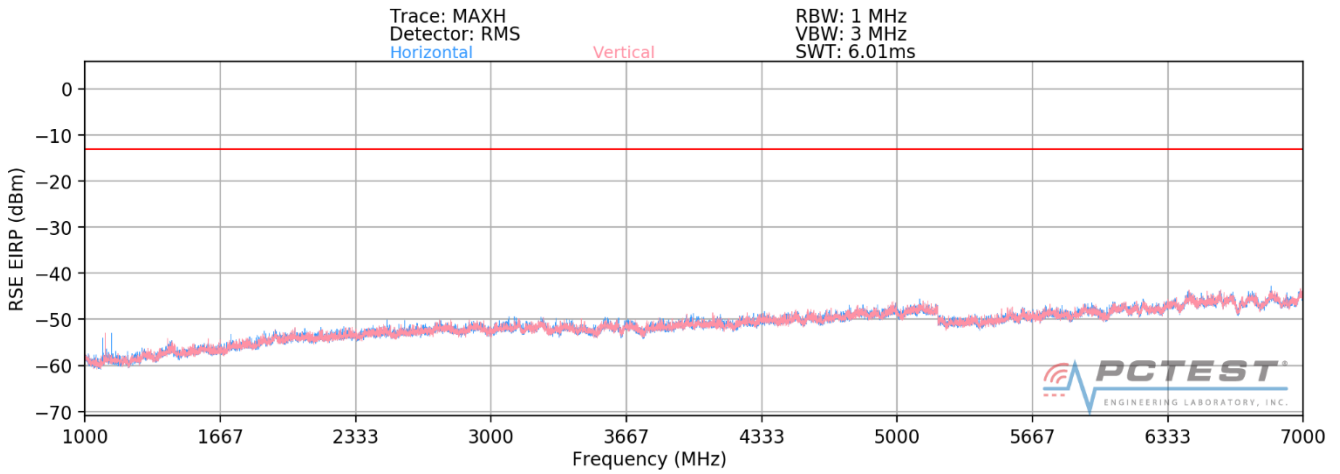
OPERATING FREQUENCY: 839.00 MHz  
 MODULATION SIGNAL: QPSK (DFT-s-OFDM)  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

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]
1678.00	V	-	-	-65.51	9.53	-55.98	-43.0
2517.00	V	109	44	-56.62	9.41	-47.20	-34.2
3356.00	V	-	-	-59.07	7.30	-51.77	-38.8
4195.00	V	-	-	-58.69	8.19	-50.49	-37.5

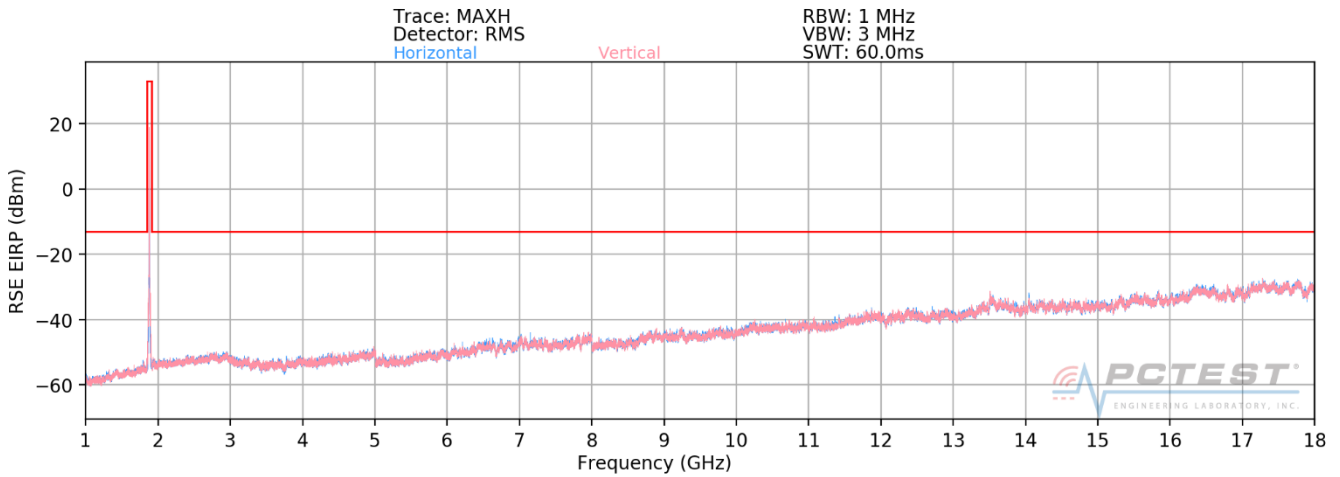
**Table 7-76. Radiated Spurious Data (n5 – High Channel)**

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 483 of 495	

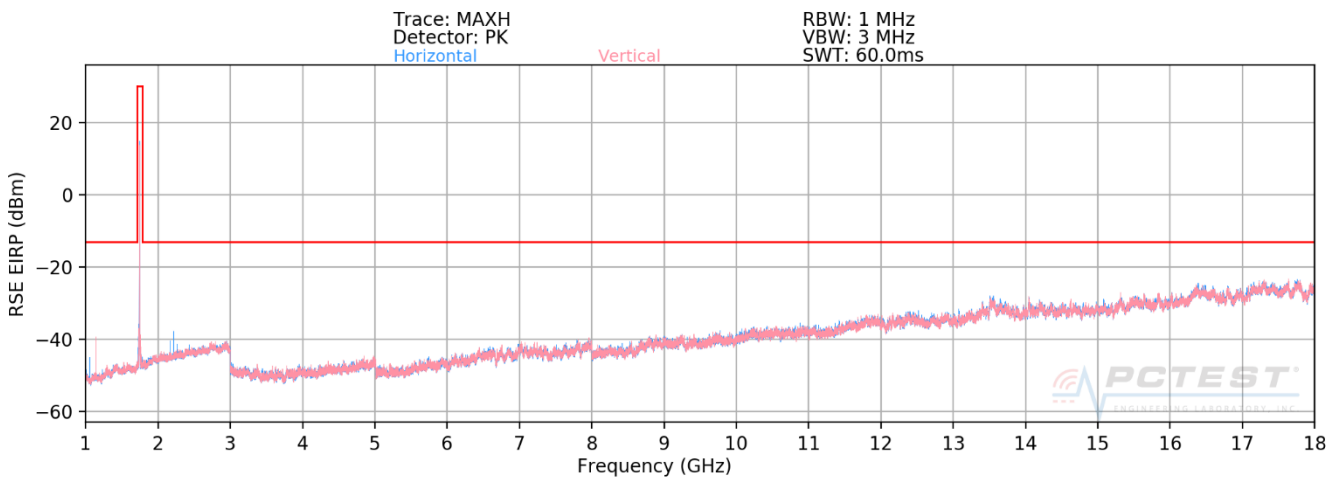
**NR Band n71**



**Plot 7-758. Radiated Spurious Plot above 1GHz (n71 Standalone)**



**Plot 7-759. Radiated Spurious Plot above 1GHz (n71 ENDC – ANCHOR B2)**



**Plot 7-760. Radiated Spurious Plot above 1GHz (n71 ENDC – ANCHOR B66)**

FCC ID: A3LSMG986U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 484 of 495

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 7-77. Radiated Spurious Data (n71 – Low Channel)**

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 7-78. Radiated Spurious Data (n71 – Mid Channel)**

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 485 of 495	

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

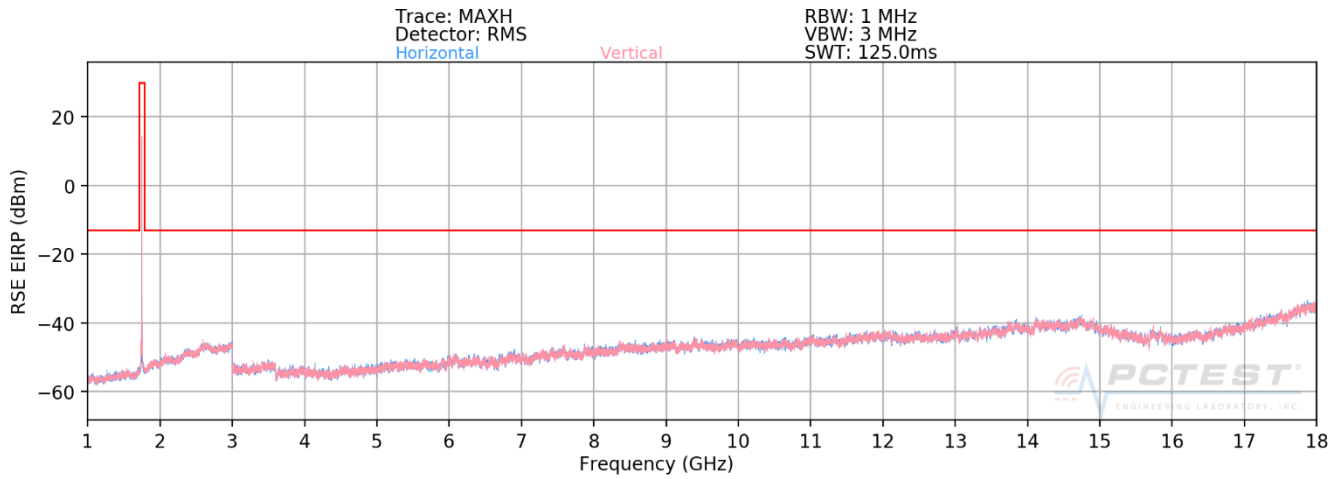
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Level at Antenna Terminals [dBm]	Substitute Antenna Gain [dBi]	Spurious Emission Level [dBm]	Margin [dB]
1381.00	V	-	-	-65.61	8.35	-57.27	-44.3
2071.50	V	-	-	-62.99	9.82	-53.17	-40.2
2762.00	V	-	-	-62.25	9.25	-53.00	-40.0

**Table 7-79. Radiated Spurious Data (n71 – High Channel)**

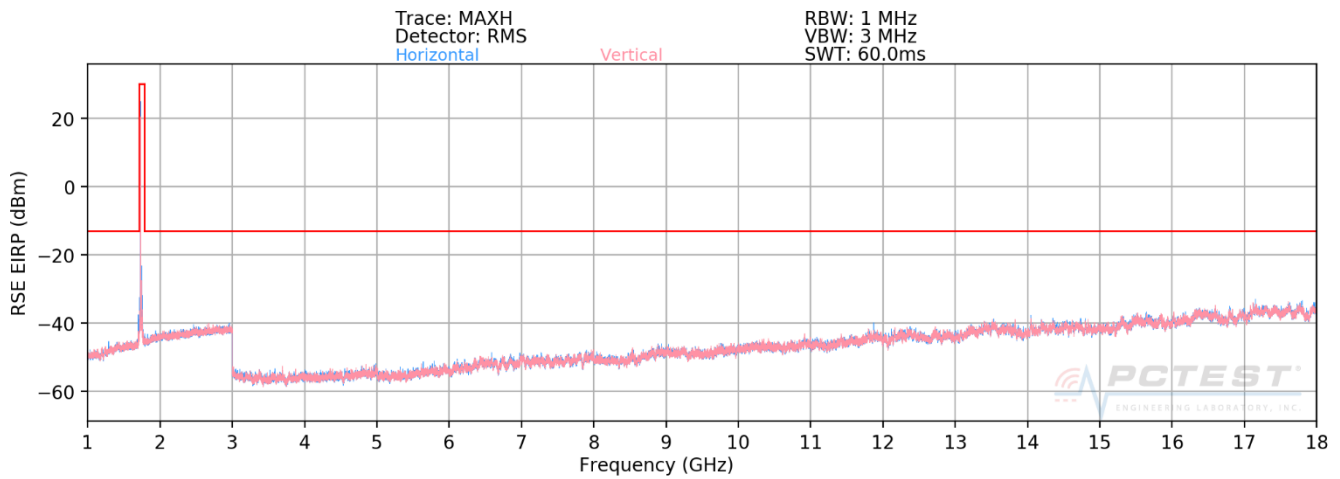
FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 486 of 495	



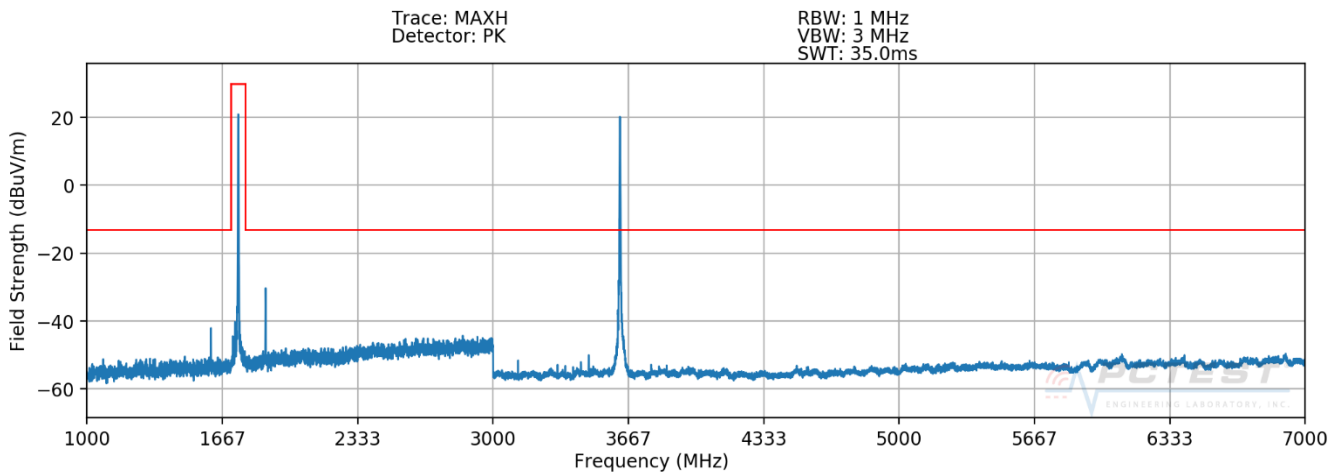
**NR Band n66**



**Plot 7-761. Radiated Spurious Plot above 1GHz (n66 Standalone)**

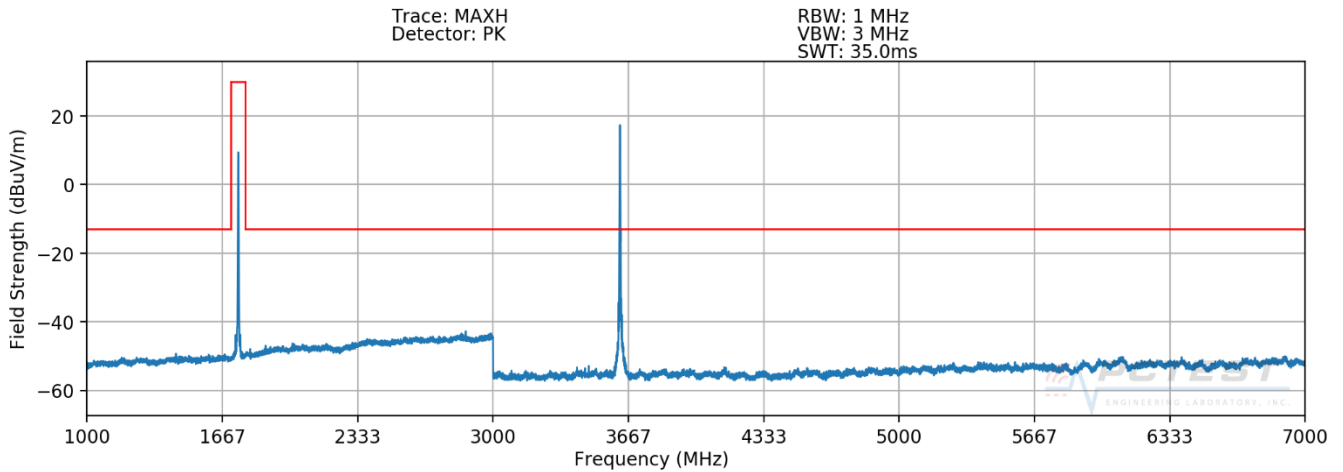


**Plot 7-762. Radiated Spurious Plot above 1GHz (n66 ENDC - ANCHOR B13)**

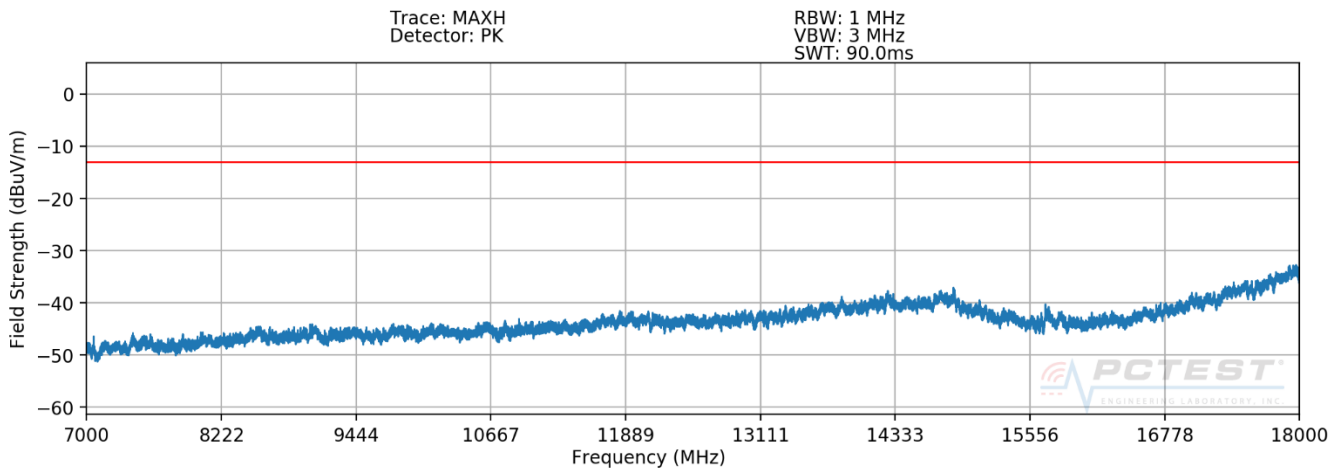


**Plot 7-763. Radiated Spurious Plot above 1GHz (n66 ENDC - ANCHOR B48 - H Orientation - 1-7 GHz)**

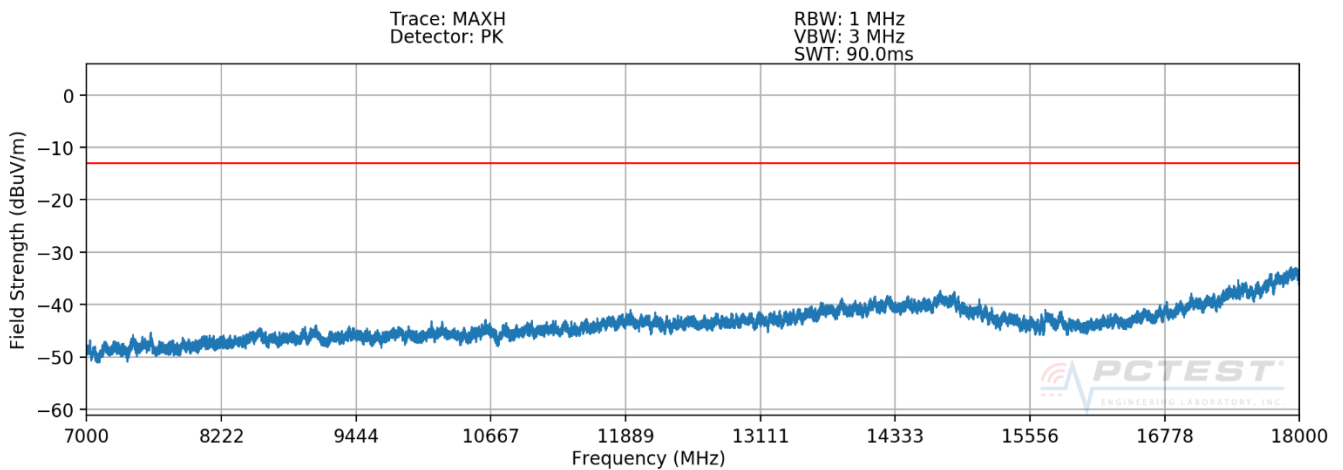
FCC ID: A3LSMG986U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 - 01/09/2020	EUT Type: Portable Handset		Page 487 of 495



**Plot 7-764. Radiated Spurious Plot above 1GHz (n66 ENDC – ANCHOR B48 – V Orientation – 1-7 GHz)**



**Plot 7-765. Radiated Spurious Plot above 1GHz (n66 ENDC – ANCHOR B48 – H Orientation – 7-18 GHz)**



**Plot 7-766. Radiated Spurious Plot above 1GHz (n66 ENDC – ANCHOR B48 – V Orientation – 7-18 GHz)**

FCC ID: A3LSMG986U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 488 of 495

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 7-80. 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 7-81. Radiated Spurious Data (n66 – Mid Channel)**

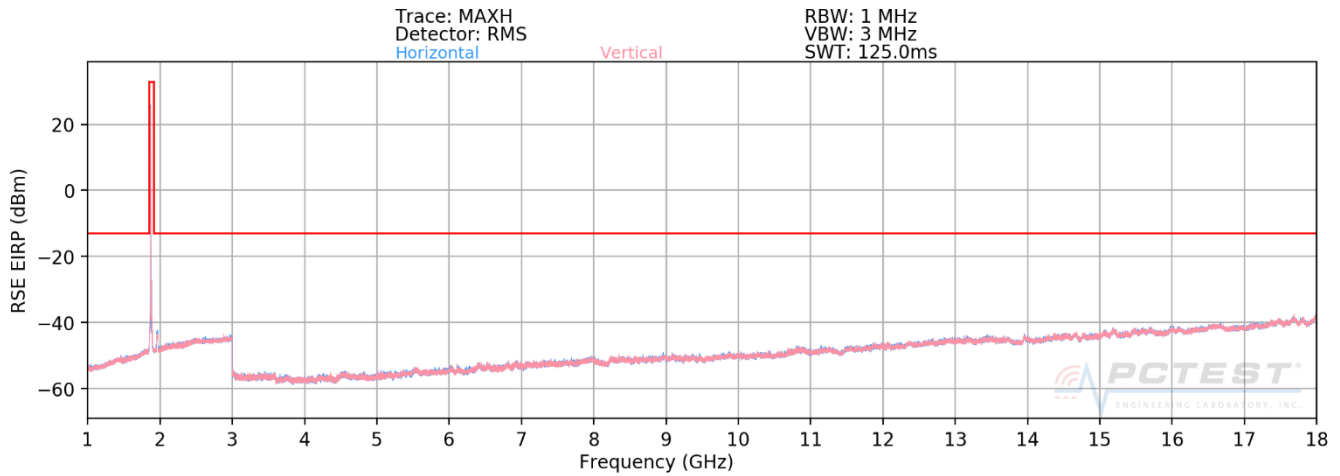
OPERATING FREQUENCY: 1770.00 MHz  
 MODULATION SIGNAL: QPSK (DFT-s-OFDM)  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

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

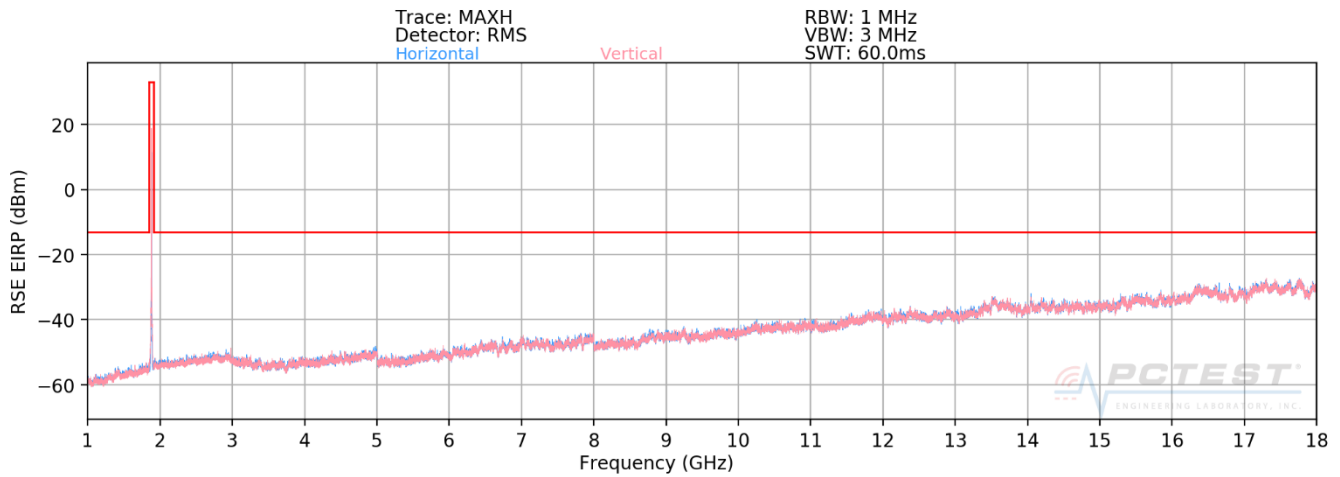
**Table 7-82. Radiated Spurious Data (n66 – High Channel)**

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 489 of 495	

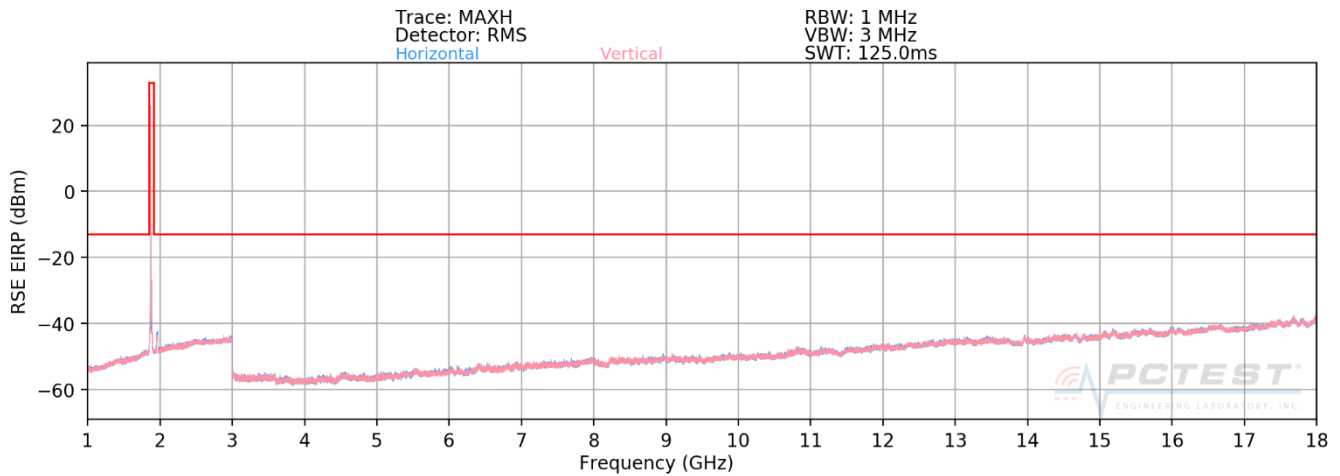
**NR Band n2**



**Plot 7-767. Radiated Spurious Plot above 1GHz (n2 Standalone)**



**Plot 7-768. Radiated Spurious Plot above 1GHz (n2 - ANCHOR B13)**



**Plot 7-769. Radiated Spurious Plot above 1GHz (n2 - ANCHOR B25)**

FCC ID: A3LSMG986U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 490 of 495

OPERATING FREQUENCY: 1860.00 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]
3720.00	V	-	-	-57.83	6.05	-51.78	-38.8
5580.00	V	-	-	-59.76	12.10	-47.67	-34.7

**Table 7-83. Radiated Spurious Data (n2 – Low Channel)**

OPERATING FREQUENCY: 1880.00 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]
3760.00	V	-	-	-56.57	5.90	-50.67	-37.7
5640.00	V	-	-	-60.88	12.27	-48.61	-35.6

**Table 7-84. Radiated Spurious Data (n2 – Mid Channel)**

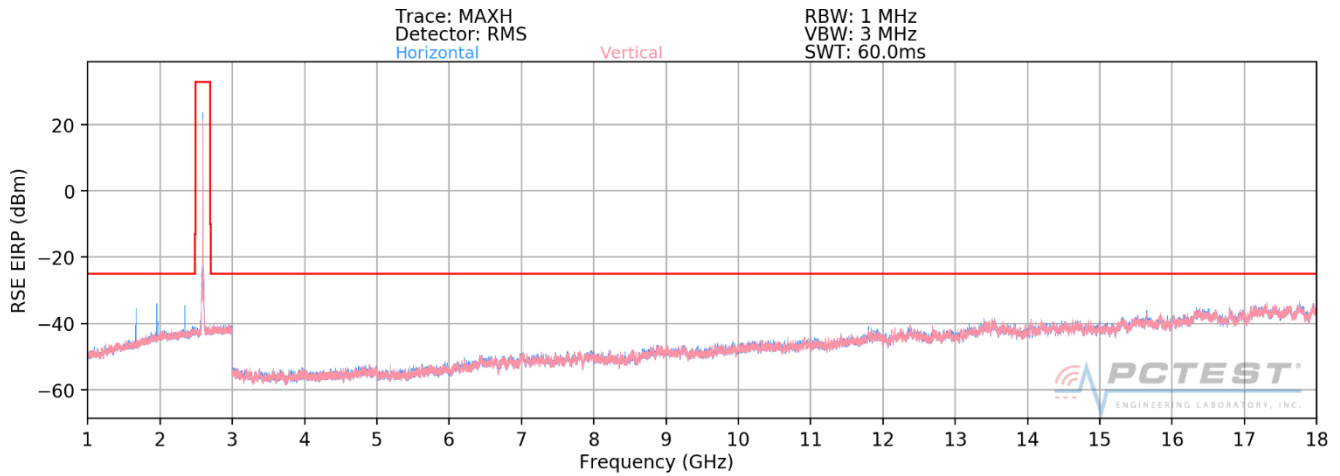
OPERATING FREQUENCY: 1900.00 MHz  
 MODULATION SIGNAL: QPSK (DFT-s-OFDM)  
 BANDWIDTH: 20.0 MHz  
 DISTANCE: 3 meters  
 LIMIT: -13 dBm

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]
3800.00	V	-	-	-56.59	5.85	-50.74	-37.7
5700.00	V	-	-	-62.09	12.41	-49.67	-36.7

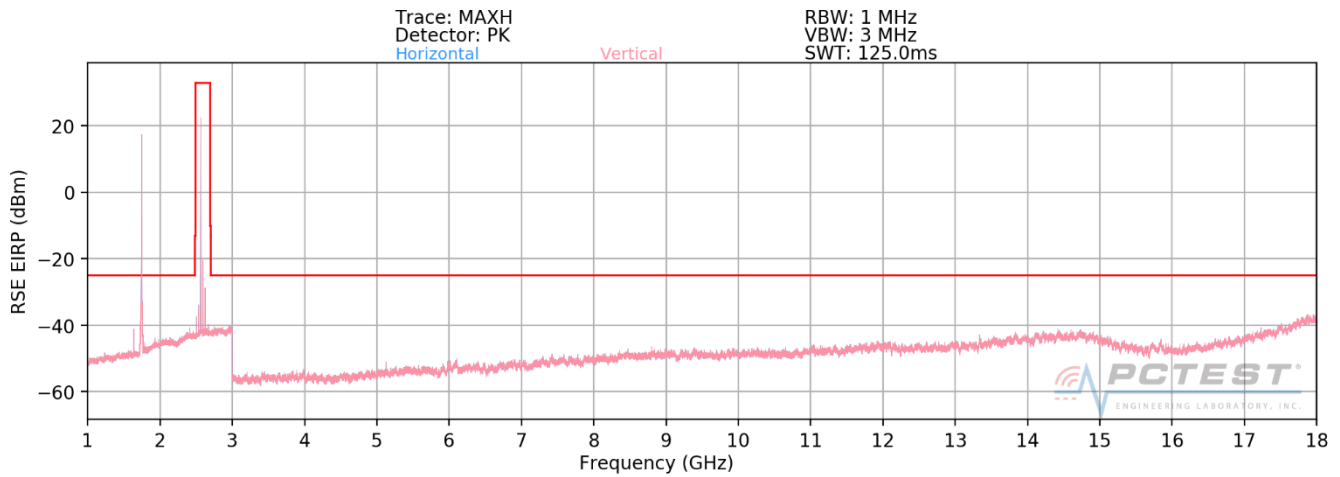
**Table 7-85. Radiated Spurious Data (n2 - High Channel)**

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 491 of 495	

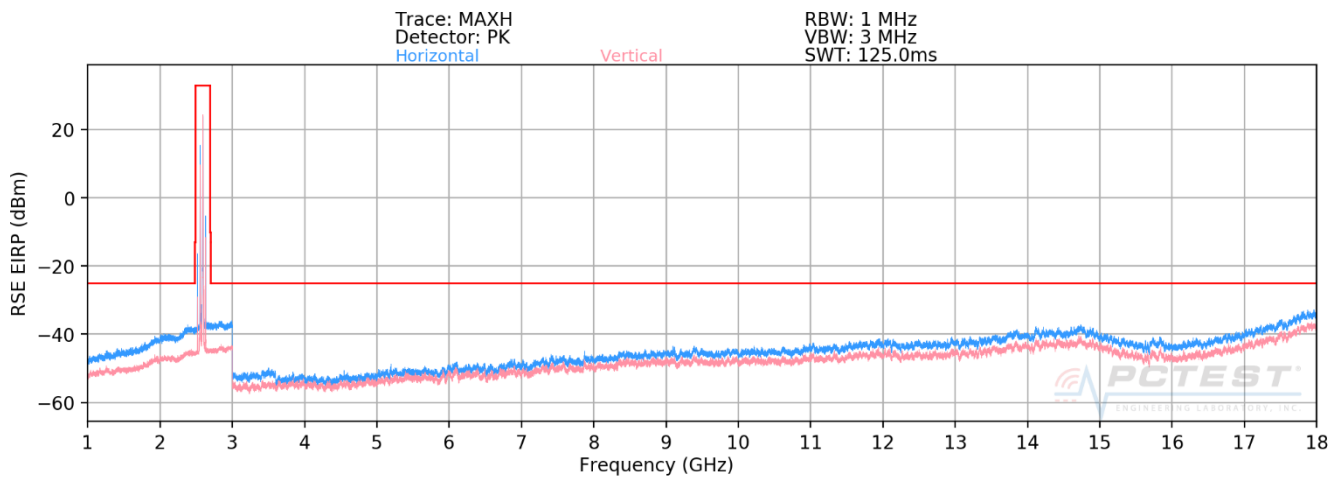
**NR Band n41**



**Plot 7-770. Radiated Spurious Plot above 1GHz (n41 Standalone)**



**Plot 7-771. Radiated Spurious Plot above 1GHz (n41 - ANCHOR B66)**



**Plot 7-772. Radiated Spurious Plot above 1GHz (n41 - ANCHOR B41)**

FCC ID: A3LSMG986U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 492 of 495

OPERATING FREQUENCY: 2545.00 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]
5090.00	H	102	359	-60.03	10.93	-49.10	-24.1
7635.00	H	156	259	-55.62	12.38	-43.24	-18.2
10180.00	H	-	-	-54.77	12.09	-42.68	-17.7
12725.00	H	-	-	-55.21	13.64	-41.57	-16.6

Table 7-86. 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	-60.10	11.14	-48.96	-24.0
7779.00	H	-	-	-55.24	12.33	-42.92	-17.9
10372.00	H	-	-	-56.71	12.42	-44.29	-19.3

Table 7-87. Radiated Spurious Data (n41 – Mid Channel)

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 493 of 495	

OPERATING FREQUENCY: 2645.00 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]
5290.00	H	168	259	-60.05	11.49	-48.57	-23.6
7935.00	H	140	306	-55.34	12.03	-43.31	-18.3
10580.00	H	-	-	-53.77	12.59	-41.18	-16.2
13225.00	H	-	-	-50.55	13.03	-37.52	-12.5

**Table 7-88. Radiated Spurious Data (n41 - High Channel)**

FCC ID: A3LSMG986U		MEASUREMENT REPORT (CERTIFICATION)			Approved by: Quality Manager
Test Report S/N: 1M1910220166-03.A3L	Test Dates: 10/11 – 01/09/2020	EUT Type: Portable Handset		Page 494 of 495	



## 8.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung Portable Handset FCC ID: A3LSMG986U** complies with all the requirements of Part 22, 24, & 27 of the FCC Rules for LTE and Sub 6GHz NR operation only.

FCC ID: A3LSMG986U		<b>MEASUREMENT REPORT (CERTIFICATION)</b>		<b>Approved by:</b> Quality Manager
<b>Test Report S/N:</b> 1M1910220166-03.A3L	<b>Test Dates:</b> 10/11 – 01/09/2020	<b>EUT Type:</b> Portable Handset	Page 495 of 495	