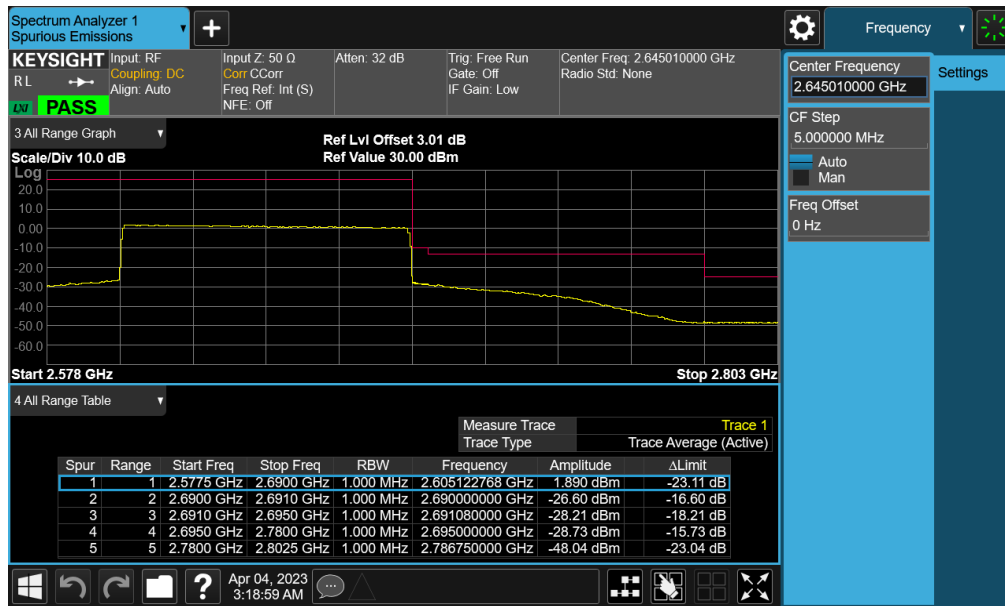
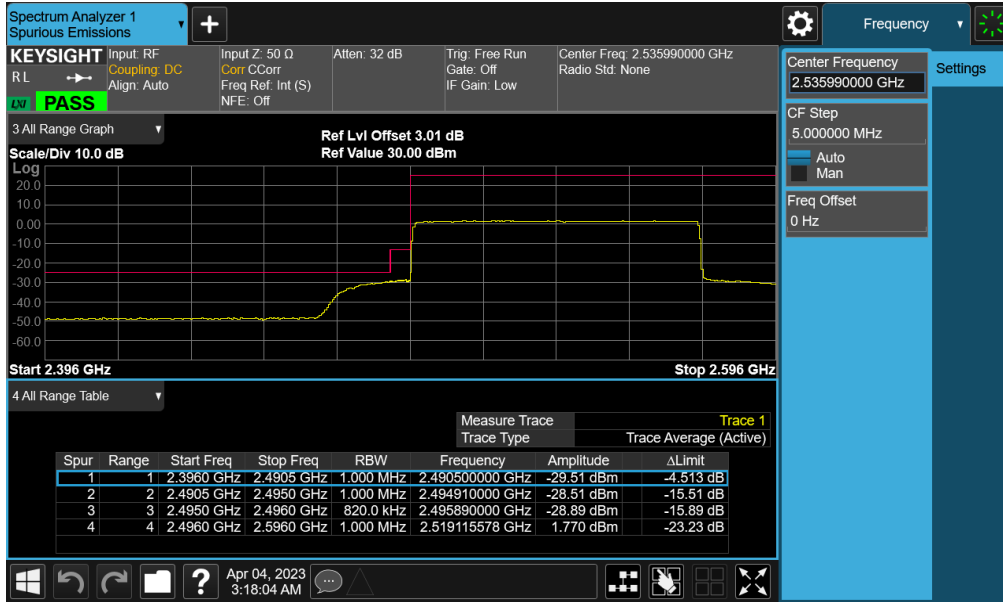


Plot 7-158. Lower ACP Plot (NR Band n41 PC3 - 90MHz CP-OFDM-QPSK - Full RB - Sub (UL-MIMO))

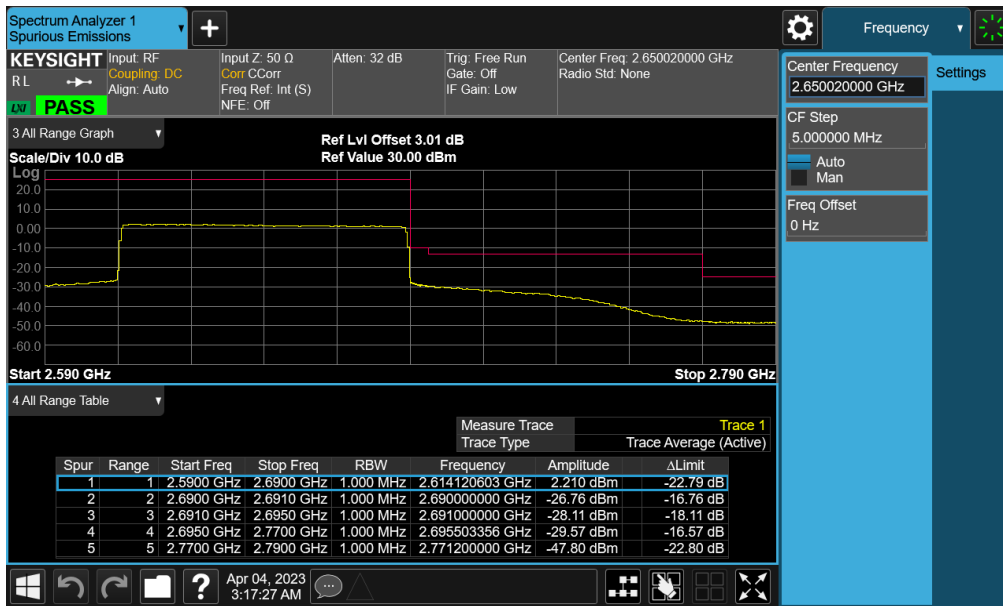


Plot 7-159. Upper ACP Plot (NR Band n41 PC3 - 90MHz CP-OFDM-QPSK - Full RB - Sub (UL-MIMO))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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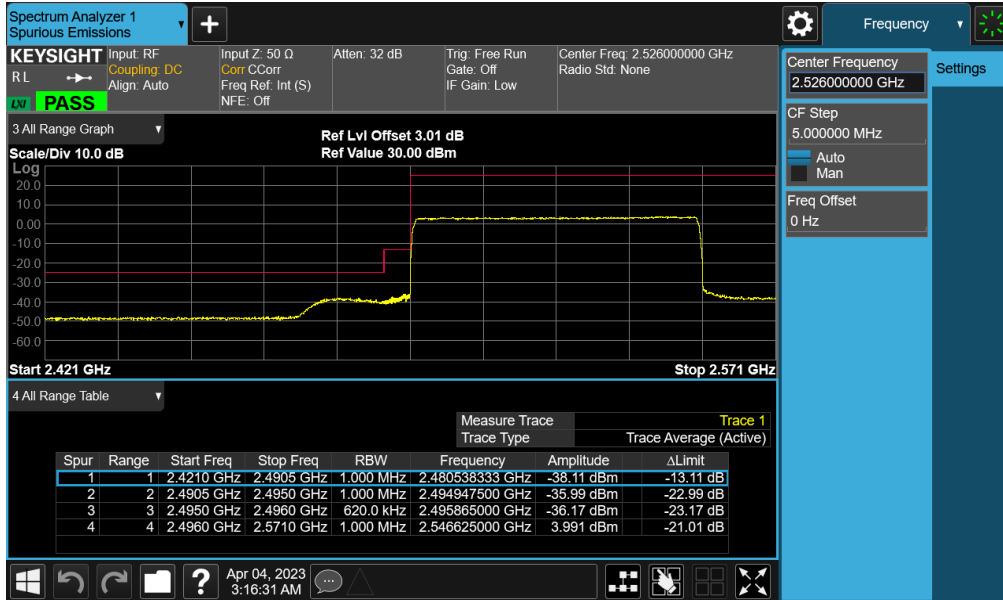


Plot 7-160. Lower ACP Plot (NR Band n41 PC3 - 80MHz CP-OFDM-QPSK - Full RB - Sub (UL-MIMO))

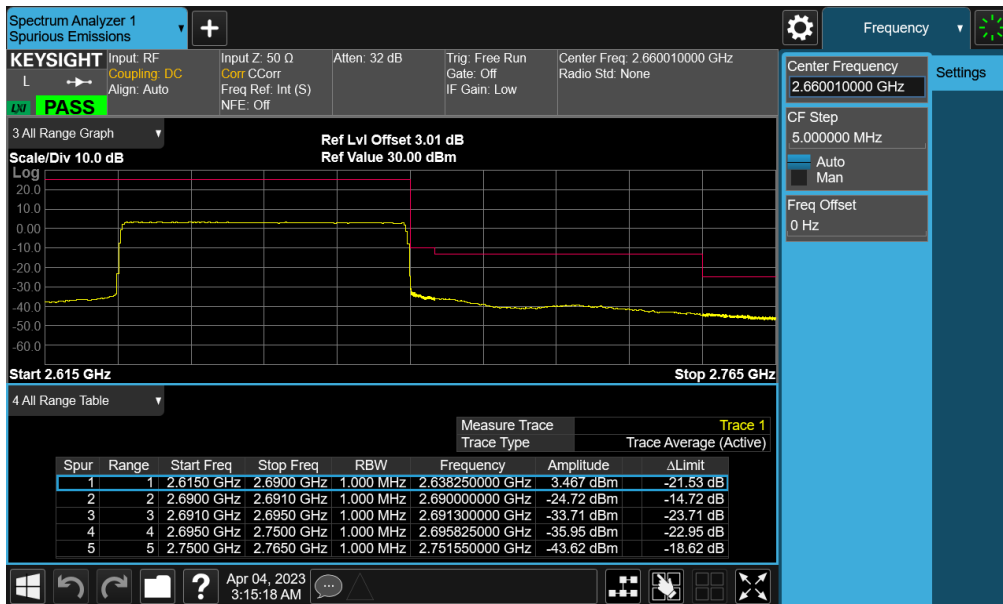


Plot 7-161. Upper ACP Plot (NR Band n41 PC3 - 80MHz CP-OFDM-QPSK - Full RB - Sub (UL-MIMO))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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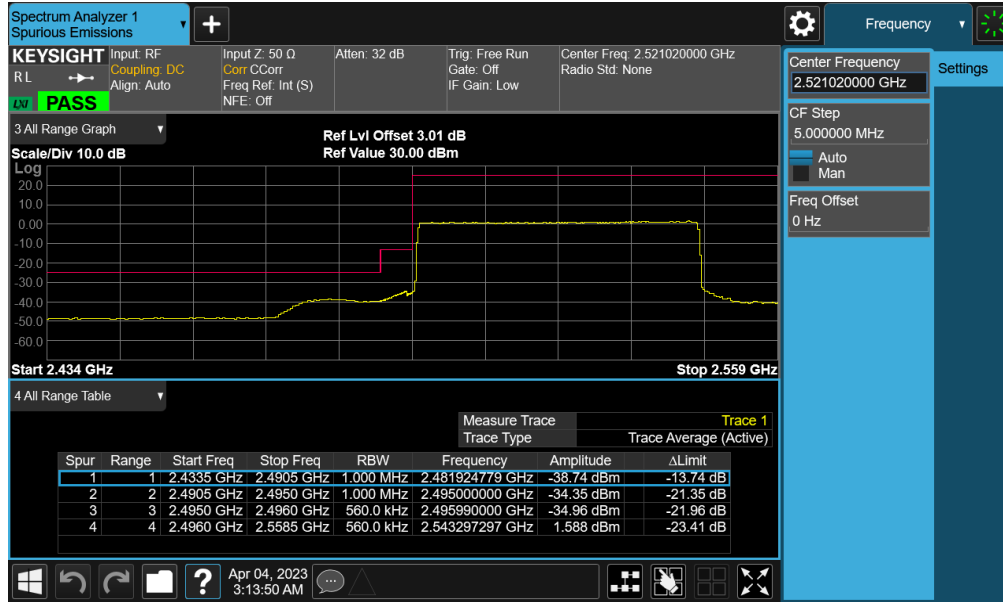


Plot 7-162. Lower ACP Plot (NR Band n41 PC3 - 60MHz CP-OFDM-QPSK – Full RB - Sub (UL-MIMO))

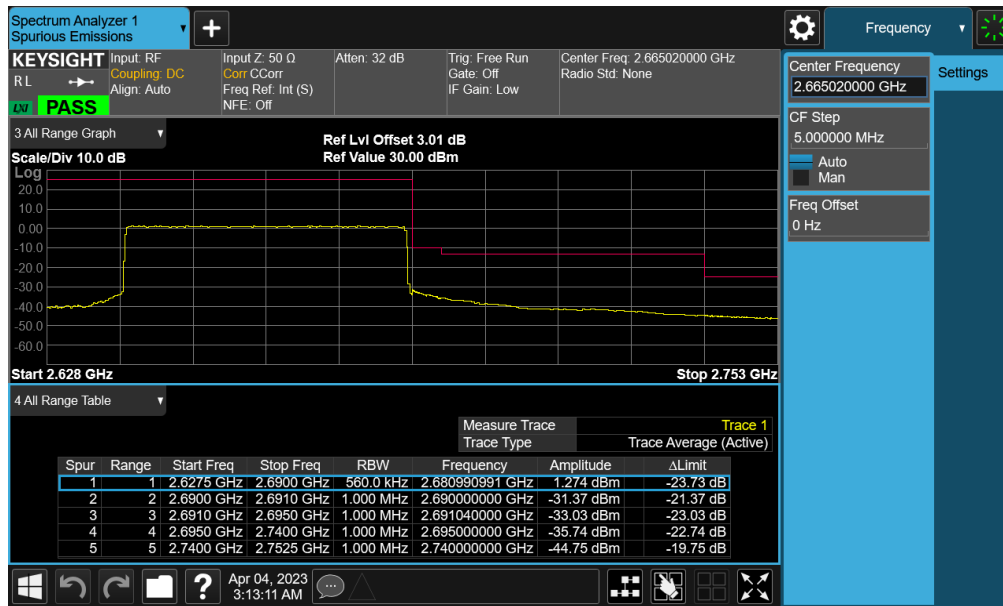


Plot 7-163. Upper ACP Plot (NR Band n41 PC3 - 60MHz CP-OFDM-QPSK – Full RB - Sub (UL-MIMO))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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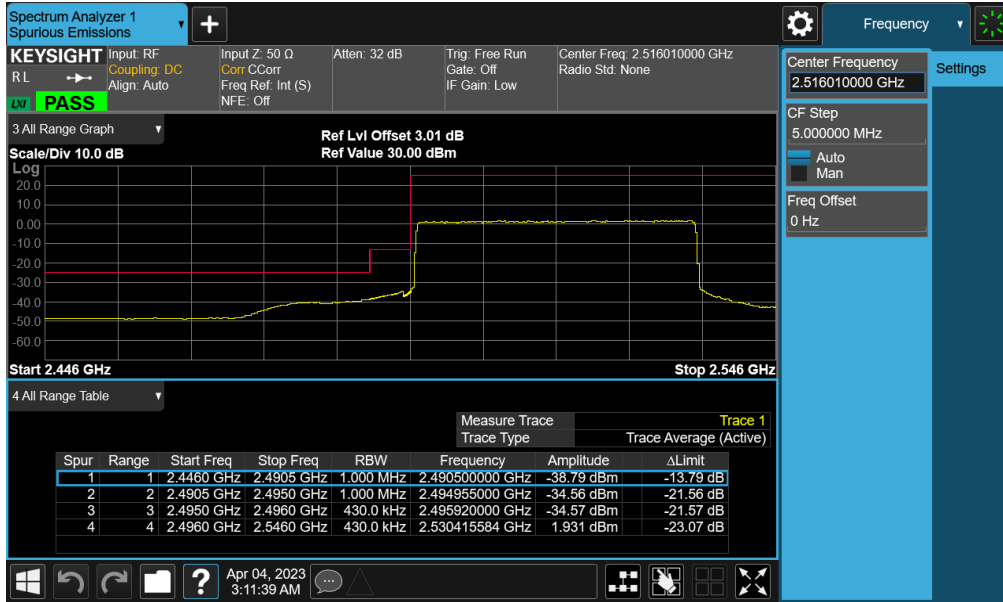


Plot 7-164. Lower ACP Plot (NR Band n41 PC3 - 50MHz CP-OFDM-QPSK - Full RB - Sub (UL-MIMO))

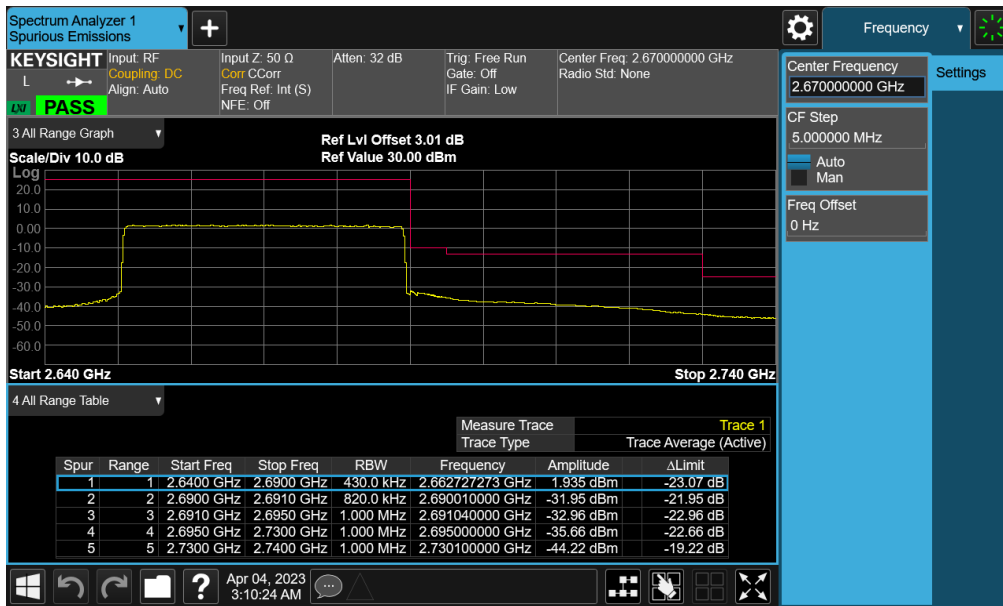


Plot 7-165. Upper ACP Plot (NR Band n41 PC3 - 50MHz CP-OFDM-QPSK - Full RB - Sub (UL-MIMO))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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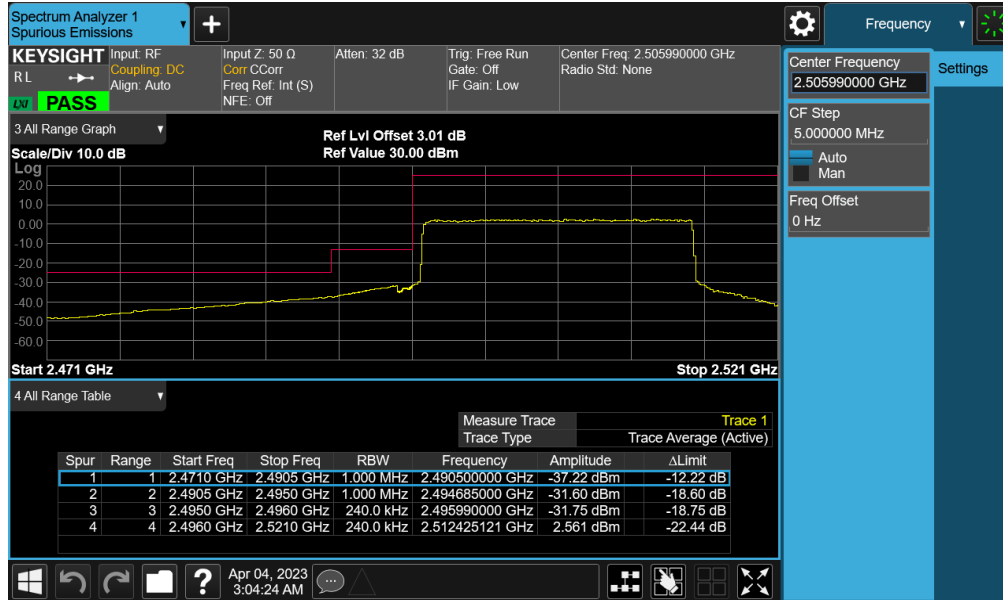


Plot 7-166. Lower ACP Plot (NR Band n41 PC3 - 40MHz CP-OFDM-QPSK – Full RB - Sub (UL-MIMO))

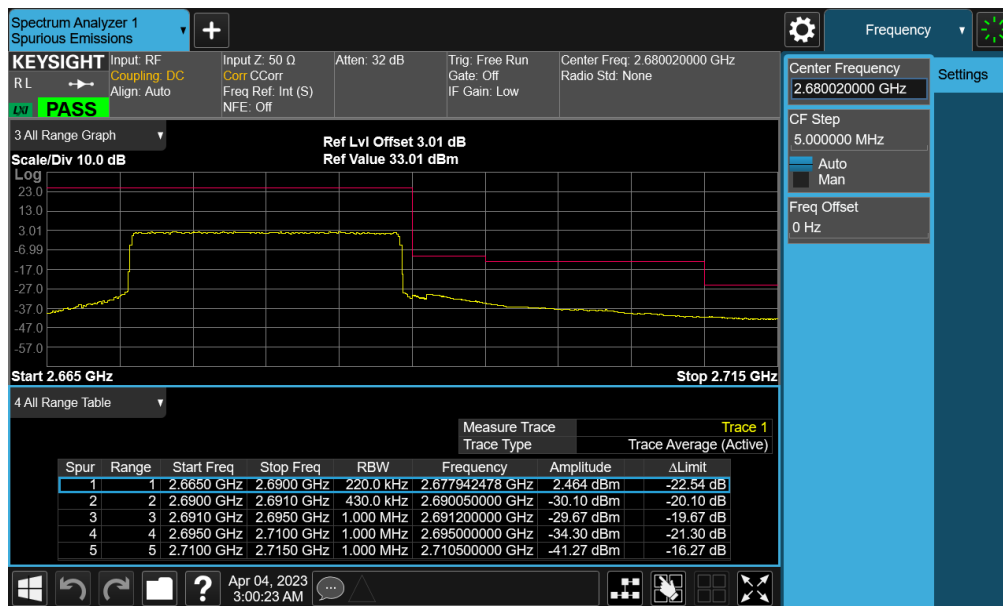


Plot 7-167. Upper ACP Plot (NR Band n41 PC3 - 40MHz CP-OFDM-QPSK – Full RB - Sub (UL-MIMO))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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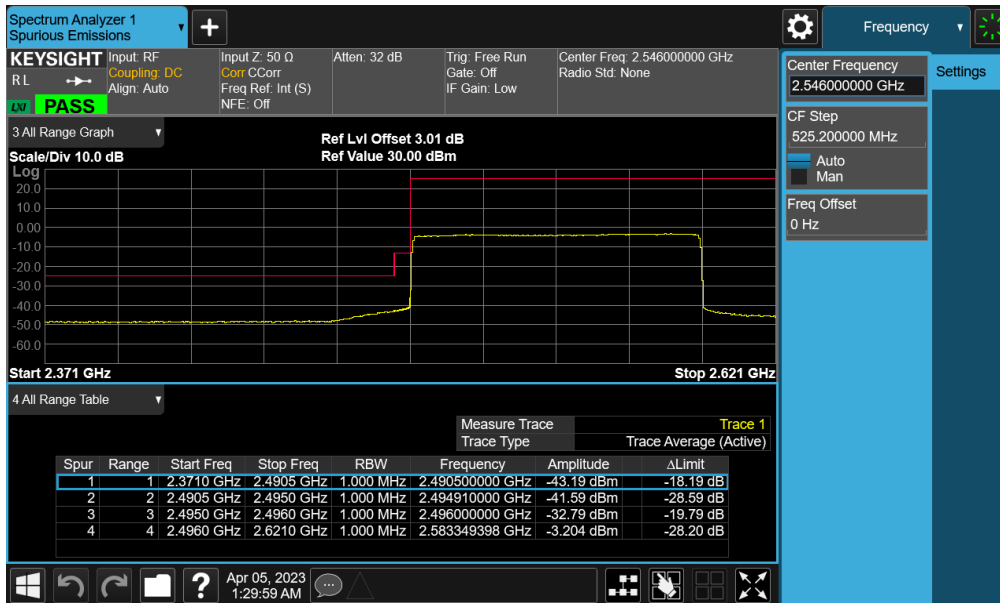
Plot 7-168. Lower ACP Plot (NR Band n41 PC3 - 20MHz CP-OFDM-QPSK – Full RB - Sub (UL-MIMO))



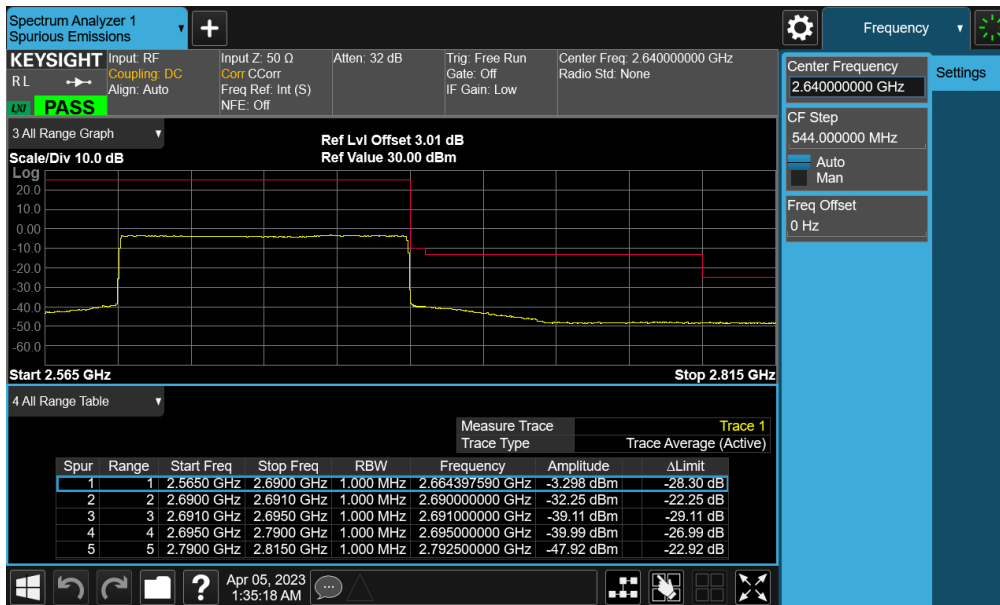
Plot 7-169. Upper ACP Plot (NR Band n41 PC3 - 20MHz CP-OFDM-QPSK – Full RB - Sub (UL-MIMO))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n41 PC3 – 3<sup>rd</sup>-LMHB (SRS 2T4R)



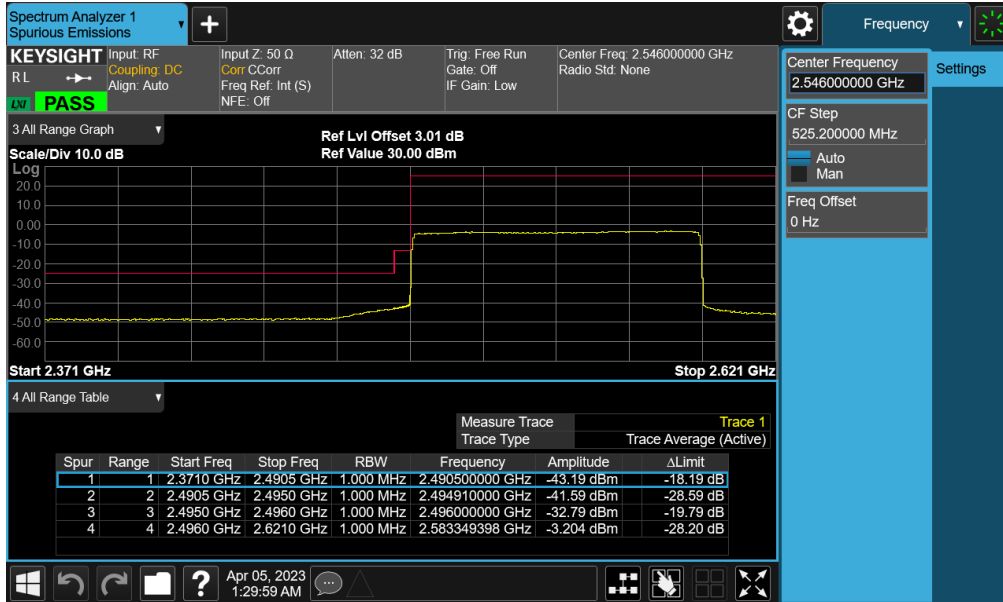
Plot 7-170. Lower ACP Plot (NR Band n41 PC3 - 100MHz CP-OFDM-QPSK – Full RB - 3<sup>rd</sup>-LMHB (SRS 2T4R))



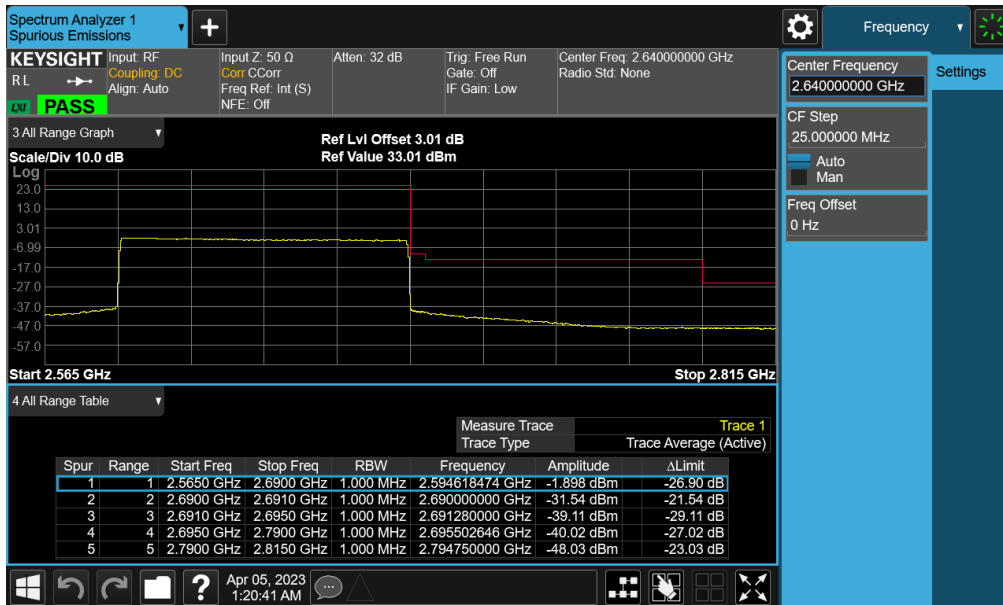
Plot 7-171. Upper ACP Plot (NR Band n41 PC3 - 100MHz CP-OFDM-QPSK – Full RB - 3<sup>rd</sup>-LMHB (SRS 2T4R))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n41 PC3 – 4<sup>th</sup>-MHB (SRS 2T4R)



Plot 7-172. Lower ACP Plot (NR Band n41 PC3 - 100MHz CP-OFDM-QPSK – Full RB – 4<sup>th</sup>-MHB (SRS 2T4R))

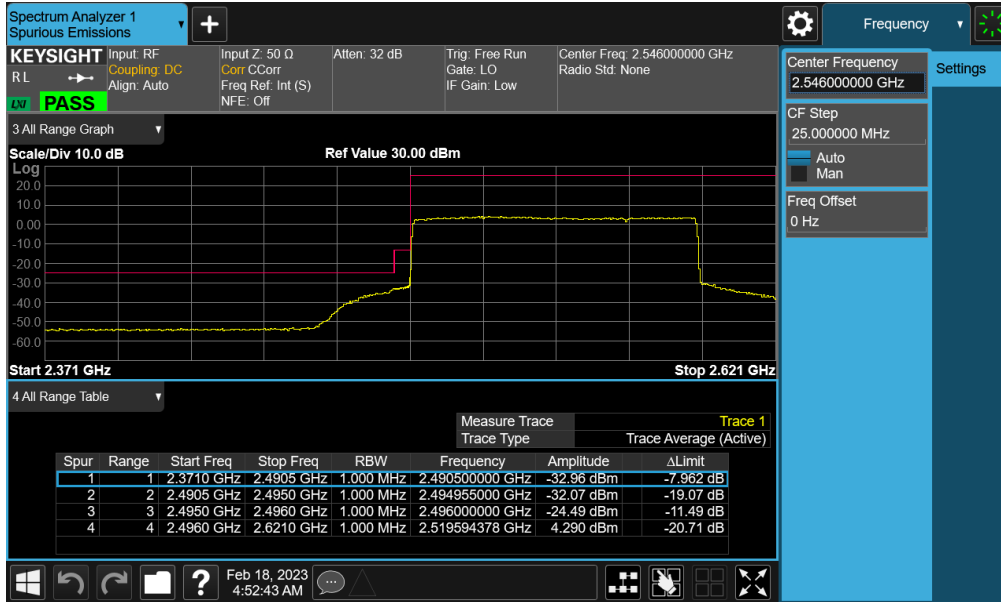


Plot 7-173. Upper ACP Plot (NR Band n41 PC3 - 100MHz CP-OFDM-QPSK – Full RB – 4<sup>th</sup>-MHB (SRS 2T4R))

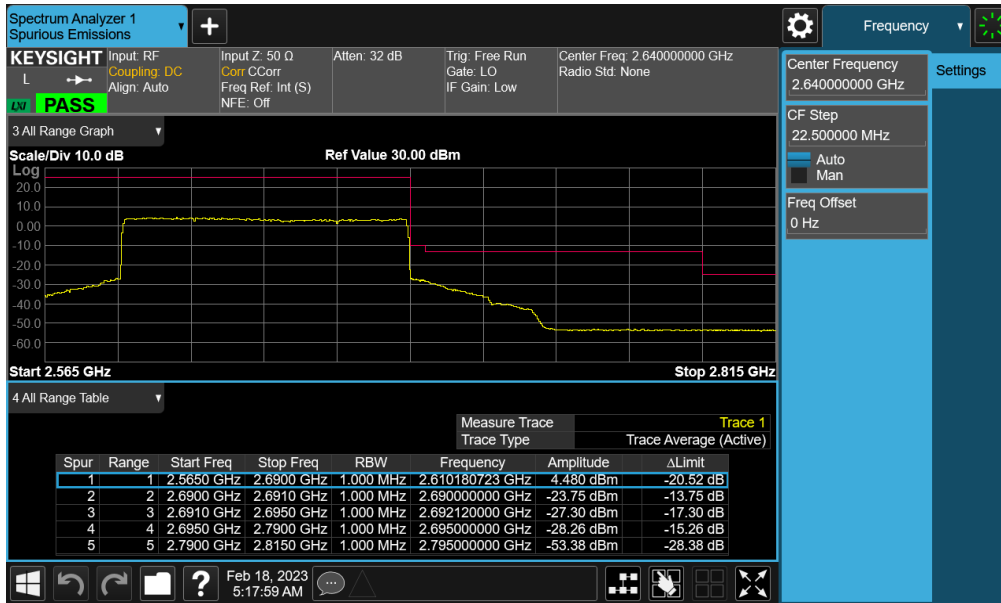
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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## NR Band n41 PC2 – Main2

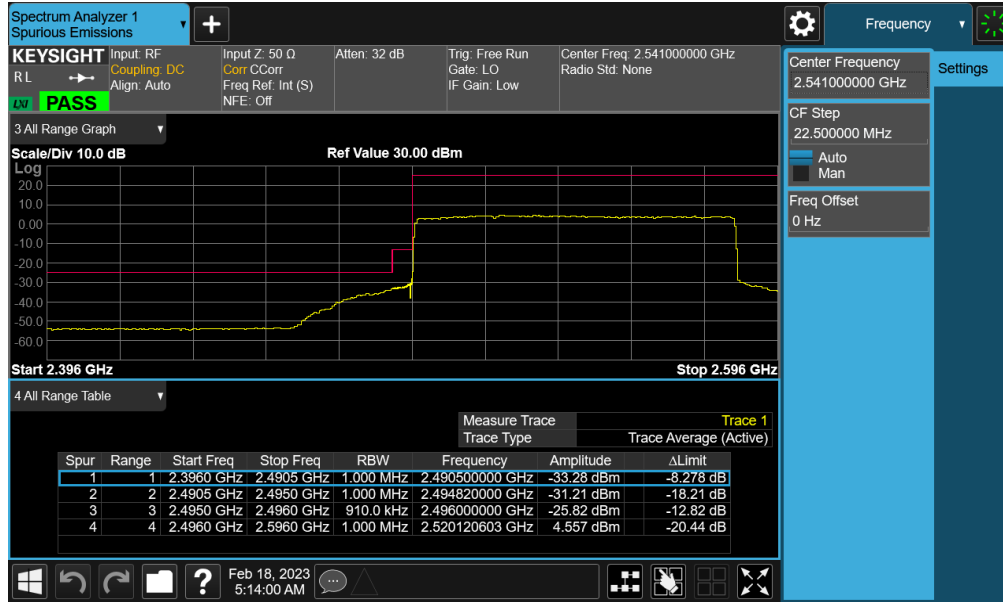


Plot 7-174. Lower ACP Plot (NR Band n41 PC2 - 100MHz CP-OFDM-QPSK – Full RB - Main2)

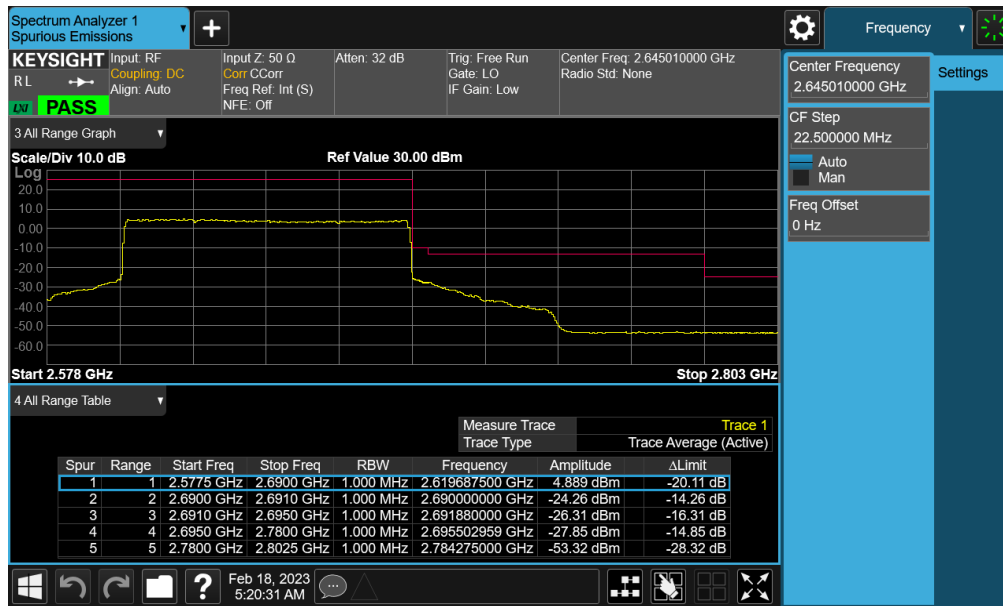


Plot 7-175. Upper ACP Plot (NR Band n41 PC2 - 100MHz CP-OFDM-QPSK – Full RB - Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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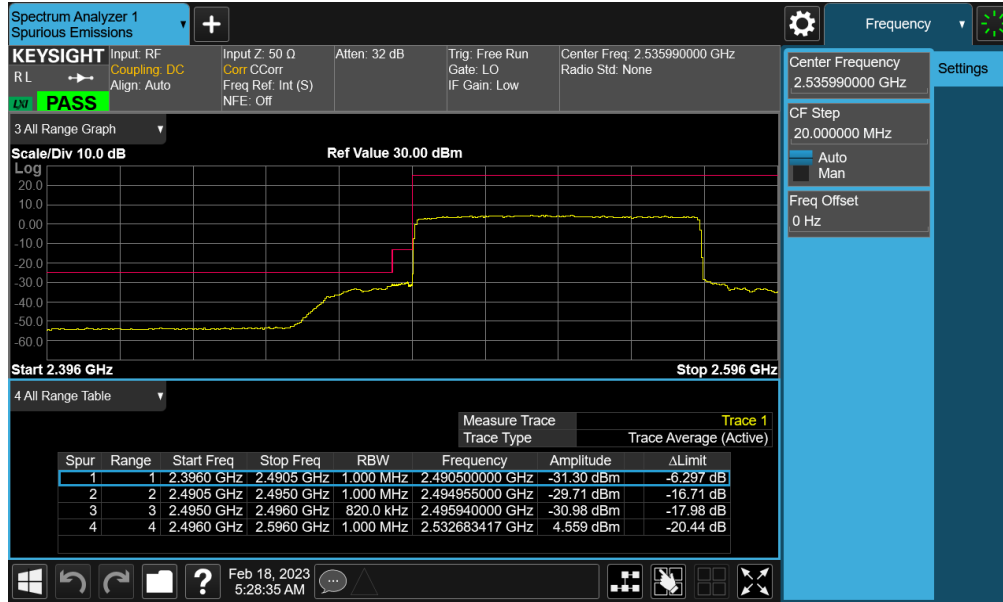


Plot 7-176. Lower ACP Plot (NR Band n41 PC2 - 90MHz CP-OFDM-QPSK - Full RB - Main2)

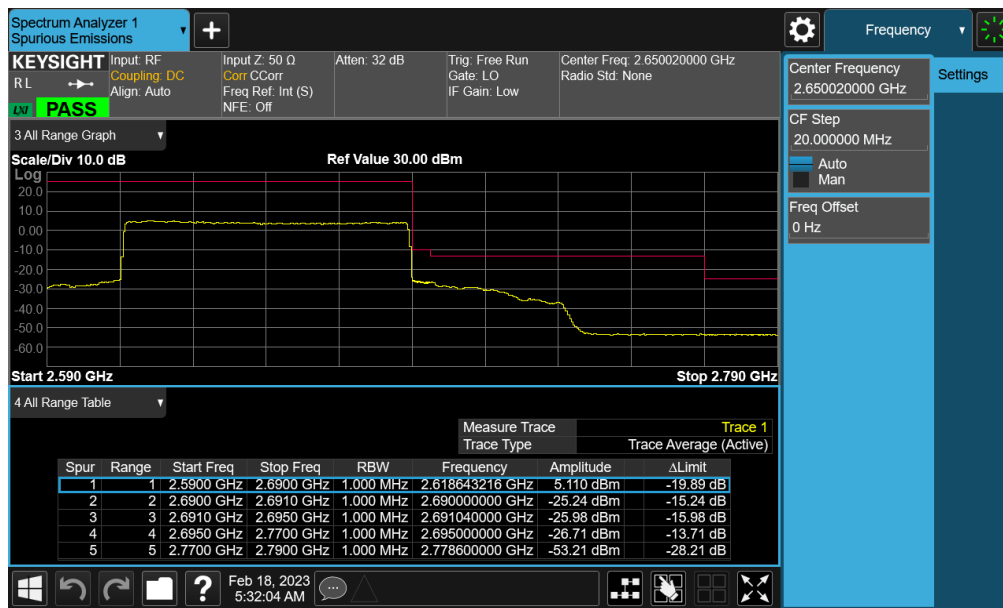


Plot 7-177. Upper ACP Plot (NR Band n41 PC2 - 90MHz CP-OFDM-QPSK - Full RB - Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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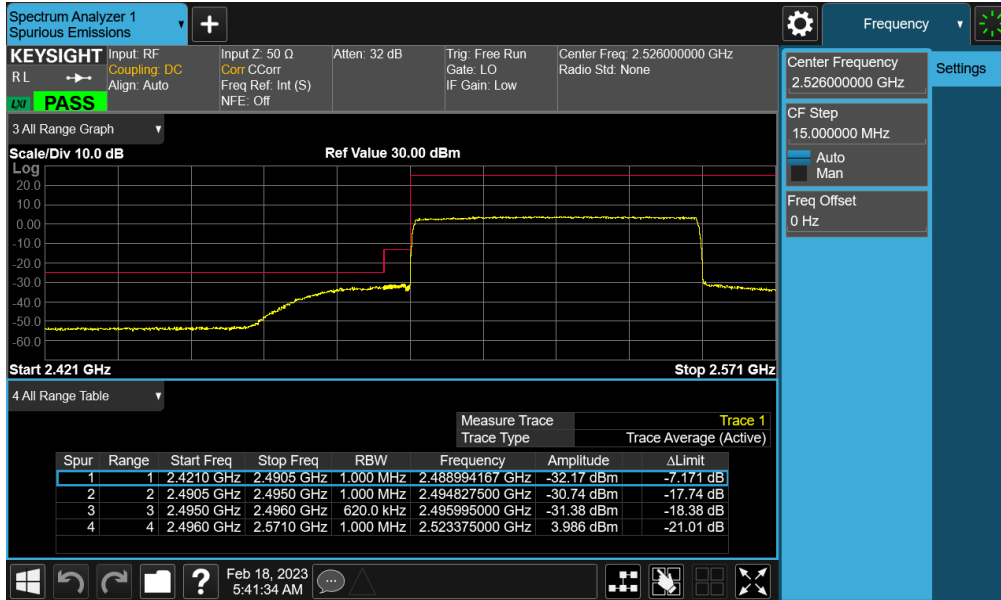


Plot 7-178. Lower ACP Plot (NR Band n41 PC2 - 80MHz CP-OFDM-QPSK - Full RB - Main2)

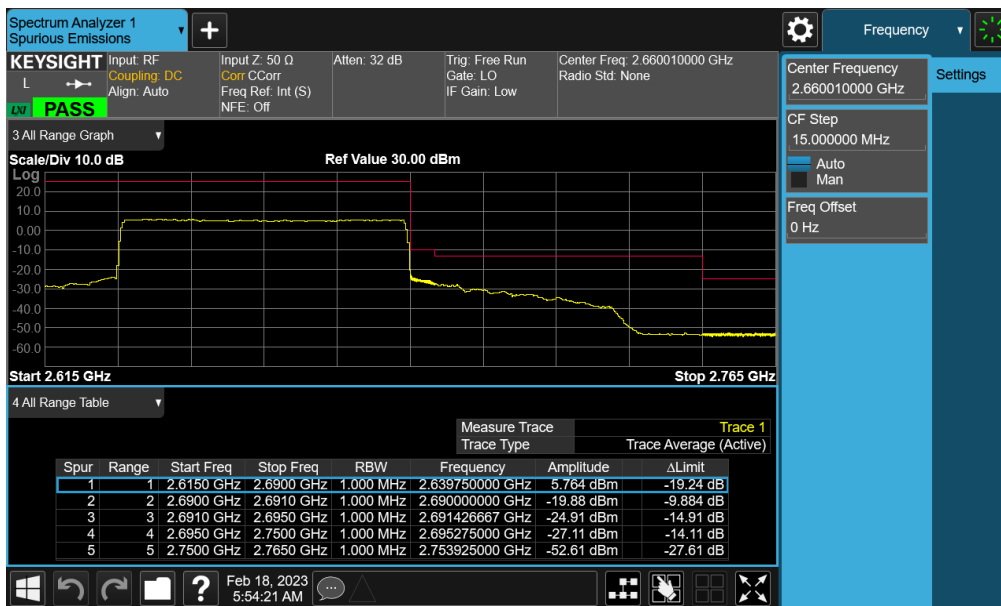


Plot 7-179. Upper ACP Plot (NR Band n41 PC2 - 80MHz CP-OFDM-QPSK - Full RB - Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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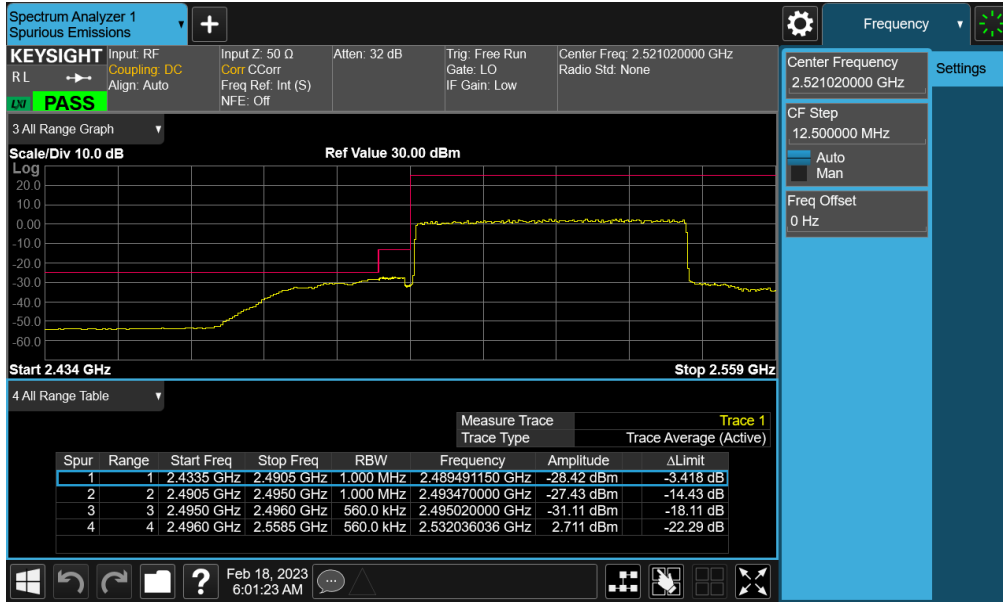


Plot 7-180. Lower ACP Plot (NR Band n41 PC2 - 60MHz CP-OFDM-QPSK - Full RB - Main2)

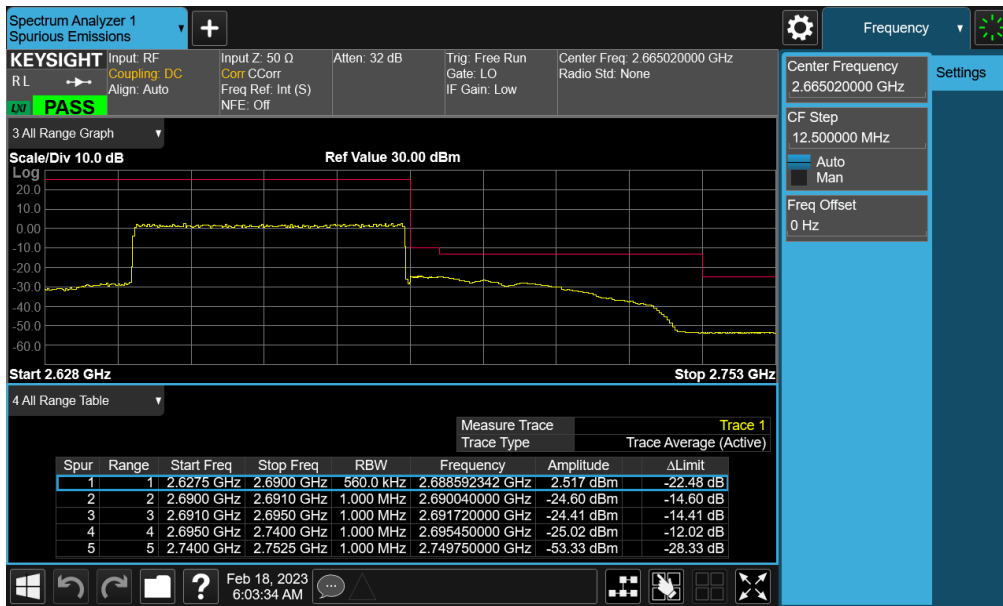


Plot 7-181. Upper ACP Plot (NR Band n41 PC2 - 60MHz CP-OFDM-QPSK - Full RB - Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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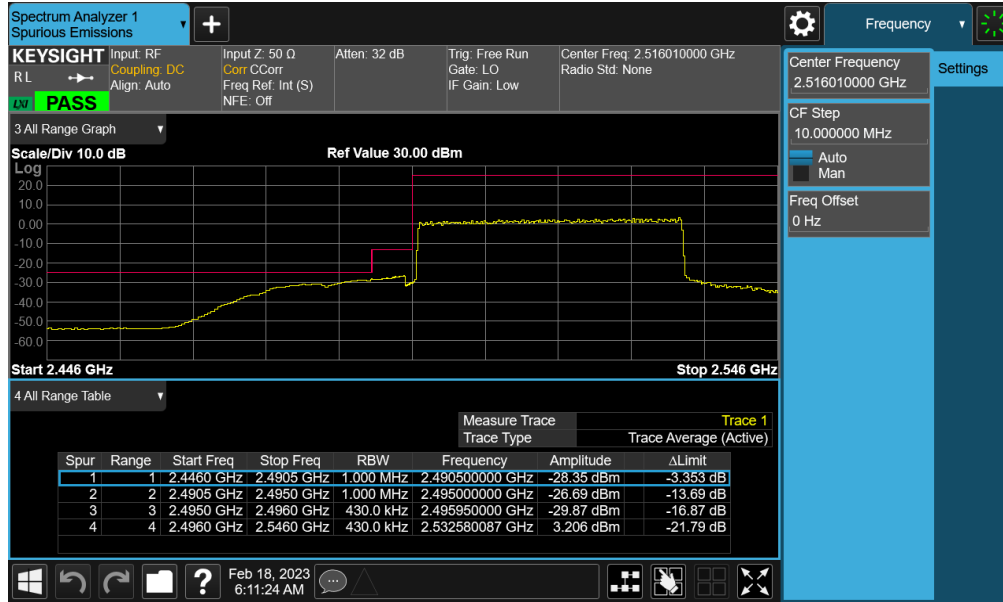


Plot 7-182. Lower ACP Plot (NR Band n41 PC2 - 50MHz CP-OFDM-QPSK - Full RB - Main2)

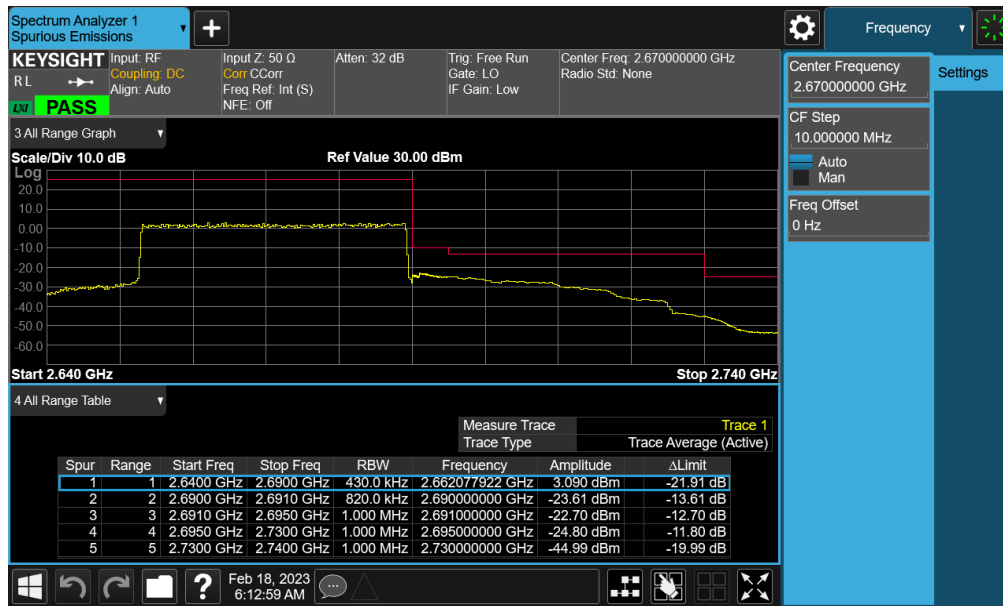


Plot 7-183. Upper ACP Plot (NR Band n41 PC2 - 50MHz CP-OFDM-QPSK - Full RB - Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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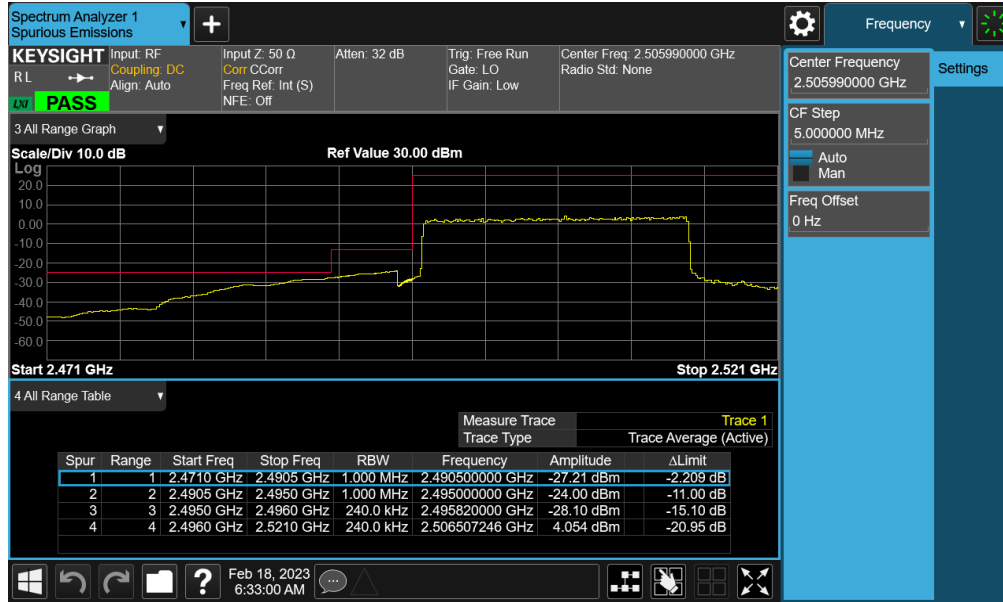


Plot 7-184. Lower ACP Plot (NR Band n41 PC2 - 40MHz CP-OFDM-QPSK - Full RB - Main2)

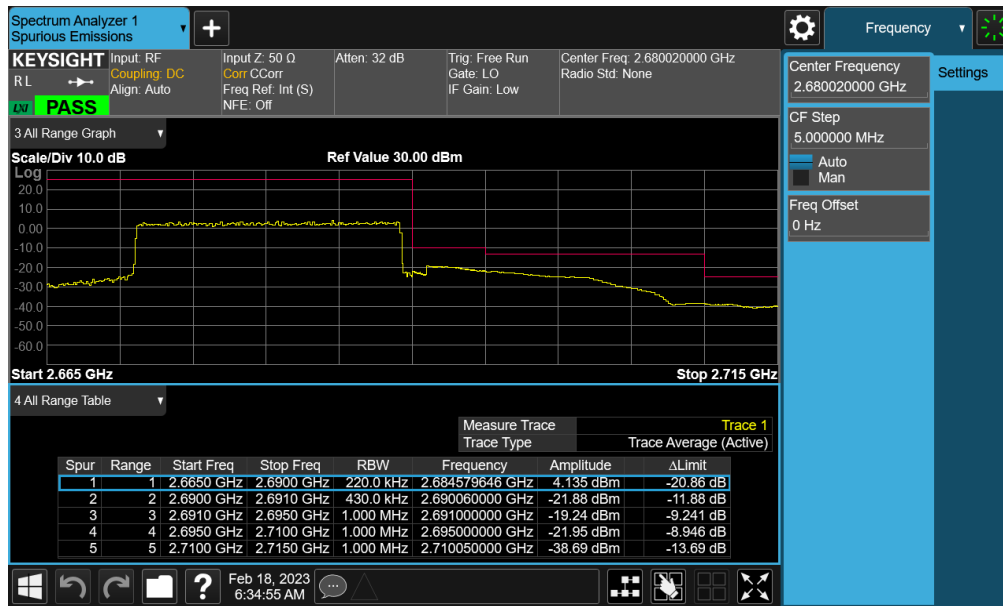


Plot 7-185. Upper ACP Plot (NR Band n41 PC2 - 40MHz CP-OFDM-QPSK - Full RB - Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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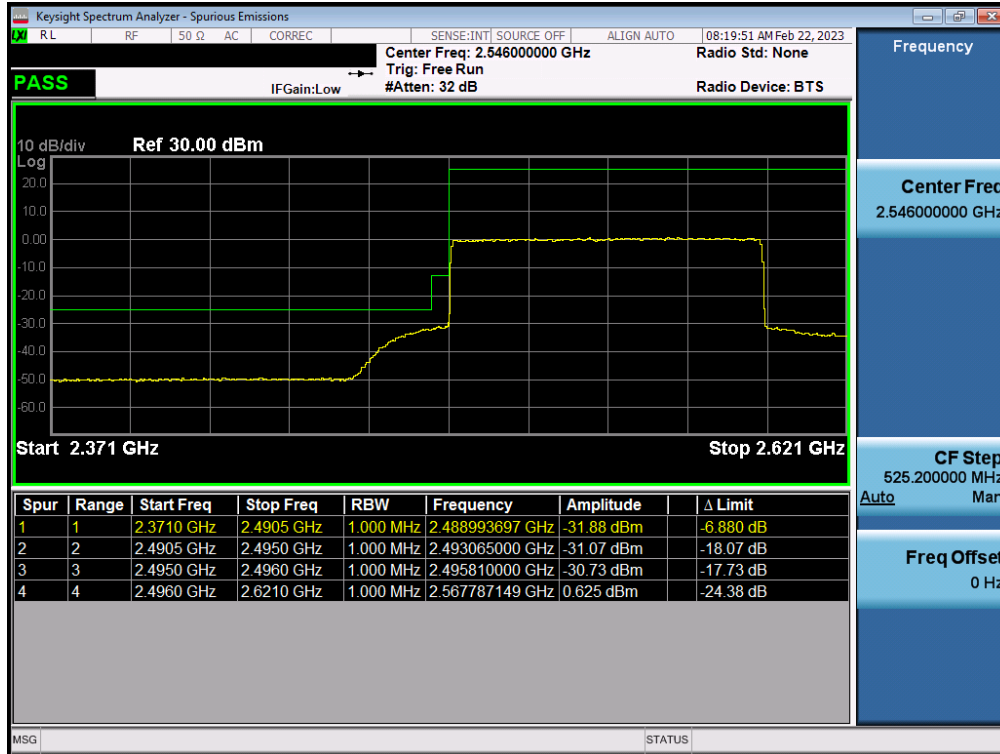
Plot 7-186. Lower ACP Plot (NR Band n41 PC2 - 20MHz CP-OFDM-QPSK - Full RB - Main2)



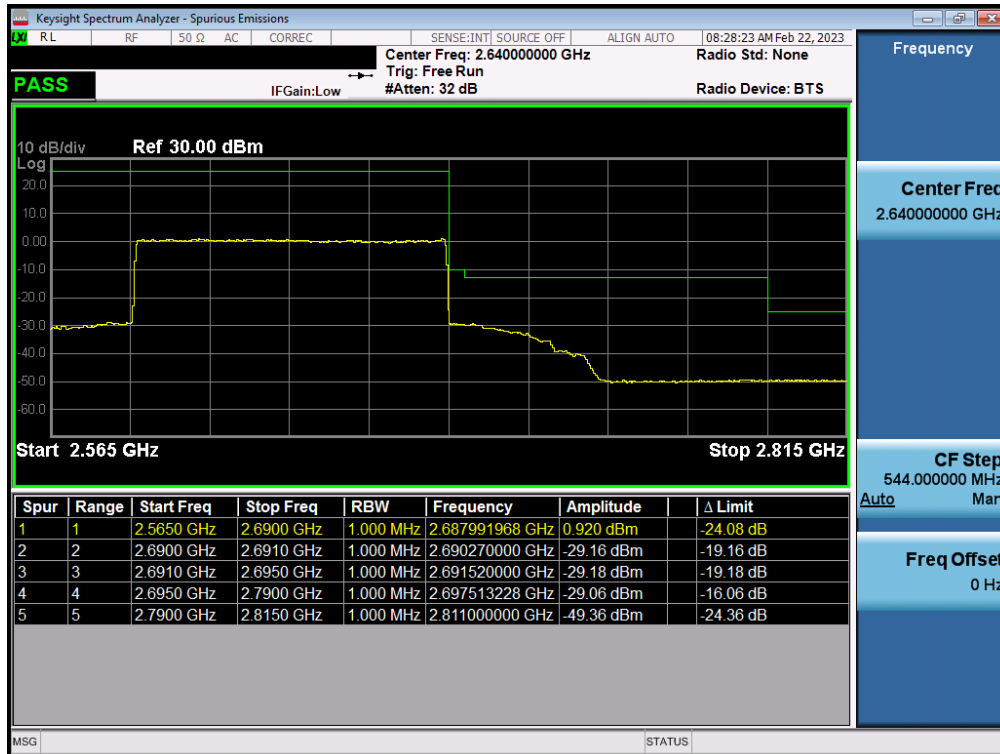
Plot 7-187. Upper ACP Plot (NR Band n41 PC2 - 20MHz CP-OFDM-QPSK - Full RB - Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n41 PC2 – Sub (SRS 1T4R)



Plot 7-188. Lower ACP Plot (NR Band n41 PC2 - 100MHz CP-OFDM-QPSK – Full RB - Sub (SRS 1T4R))

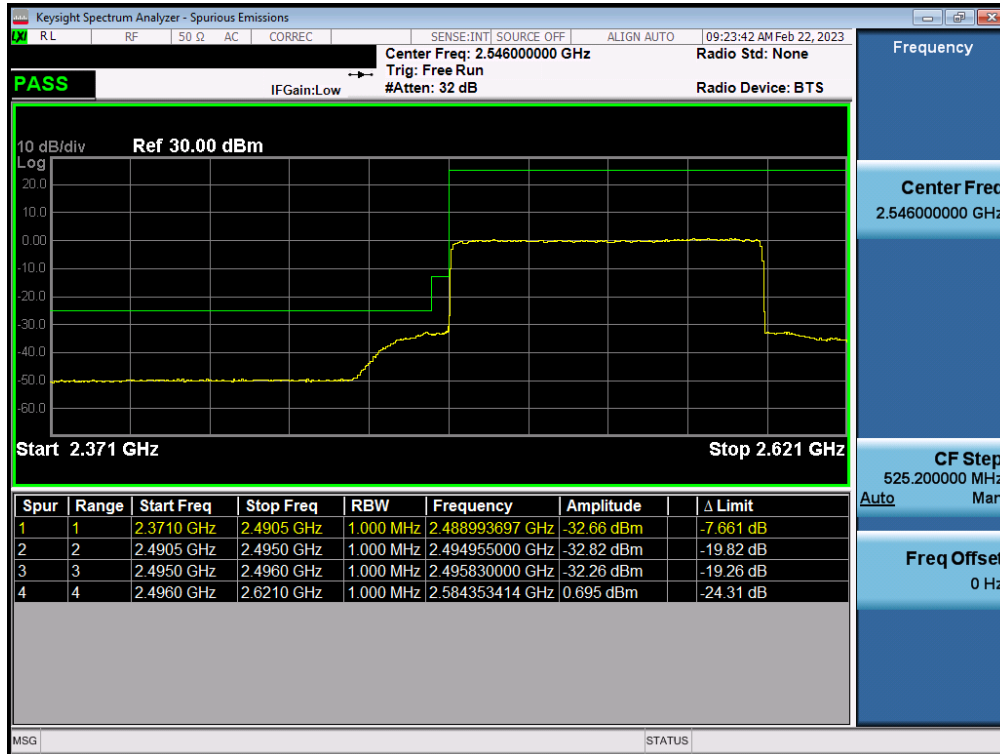


Plot 7-189. Upper ACP Plot (NR Band n41 PC2 - 100MHz CP-OFDM-QPSK – Full RB - Sub (SRS 1T4R))

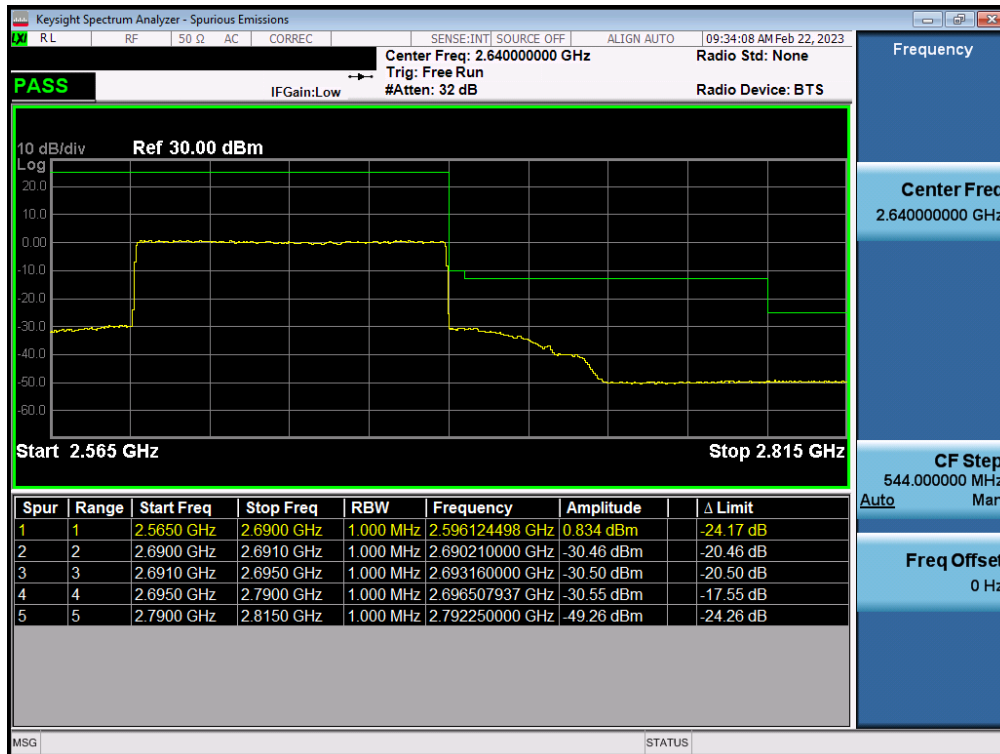
FCC ID: PY7-84558E		PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n41 PC2 – 3rd-LMHB (SRS 1T4R)



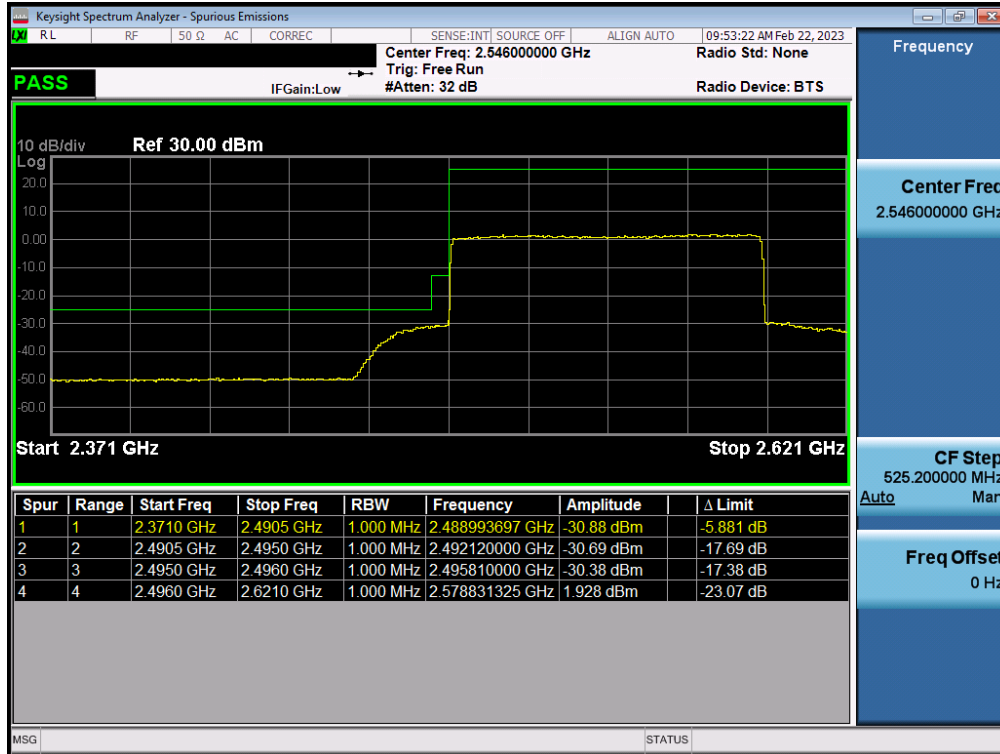
Plot 7-190. Lower ACP Plot (NR Band n41 PC2 - 100MHz CP-OFDM-QPSK – Full RB - 3rd-LMHB (SRS 1T4R))



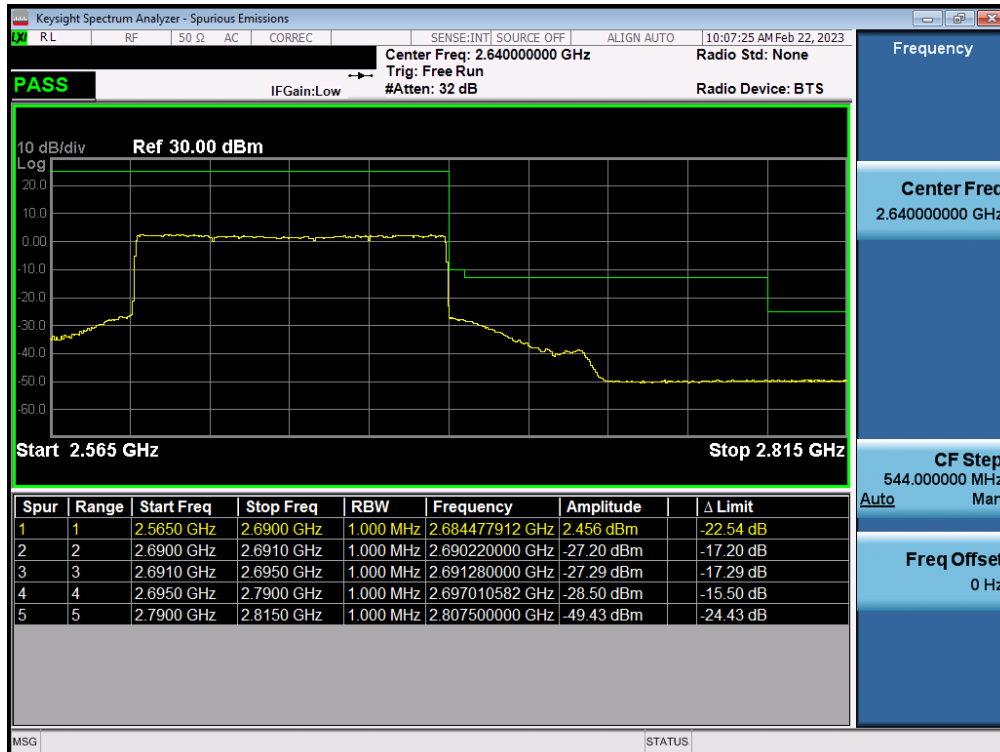
Plot 7-191. Upper ACP Plot (NR Band n41 PC2 - 100MHz CP-OFDM-QPSK – Full RB - 3rd-LMHB (SRS 1T4R))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n41 PC2 – 4th-MHB (SRS 1T4R)



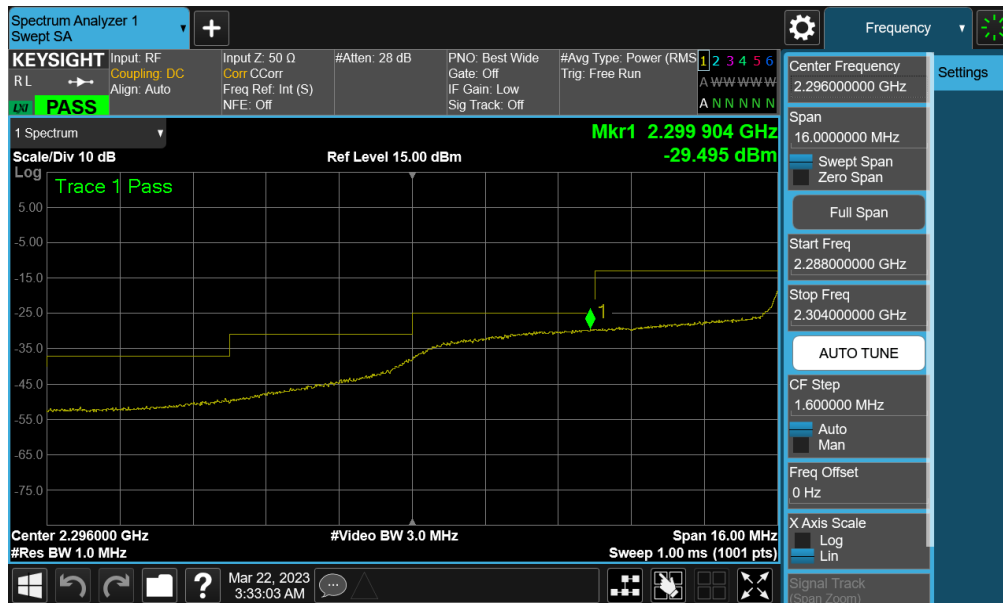
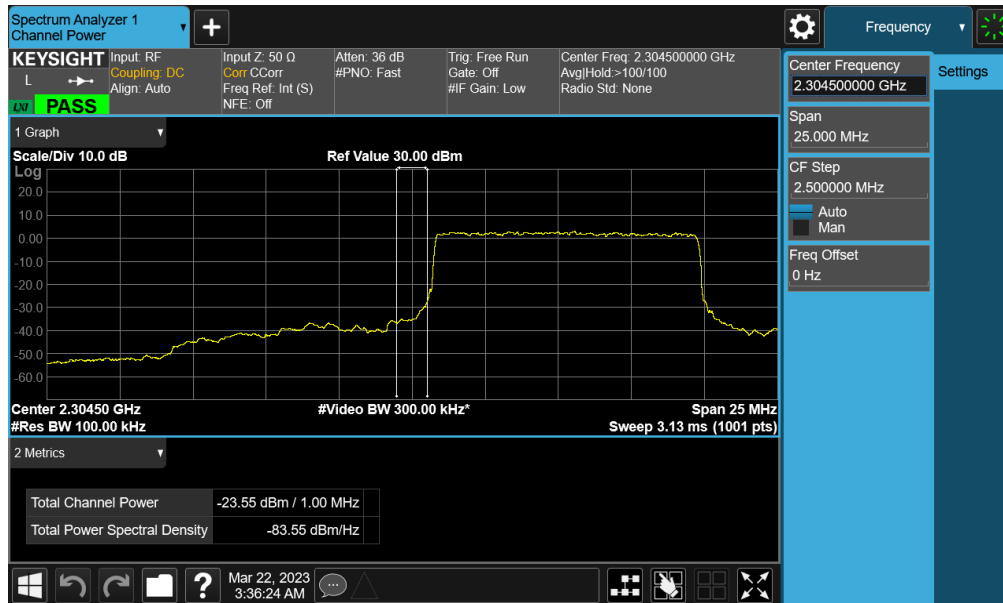
Plot 7-192. Lower ACP Plot (NR Band n41 PC2 - 100MHz CP-OFDM-QPSK – Full RB - 4th-MHB (SRS 1T4R))



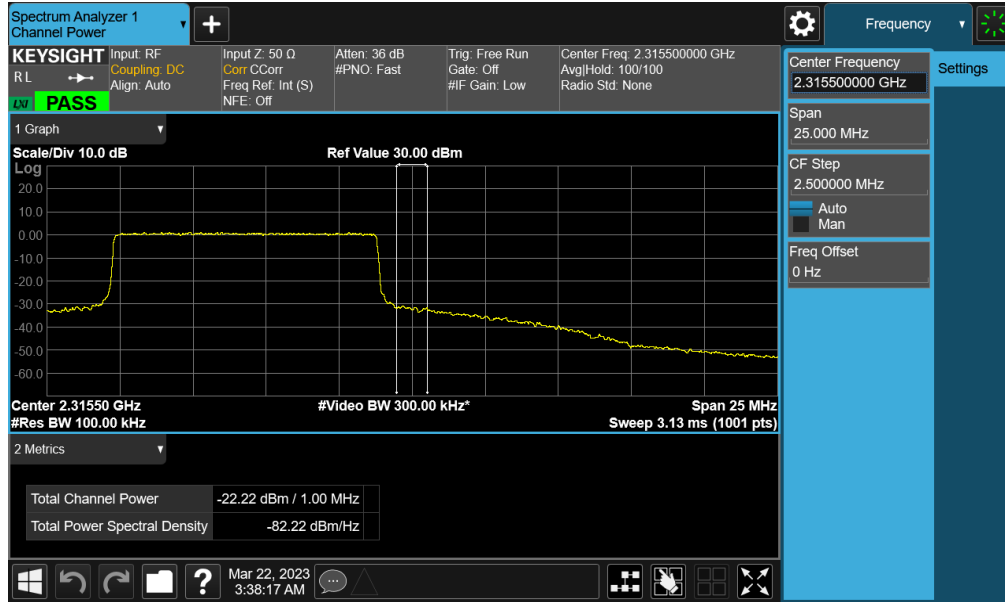
Plot 7-193. Upper ACP Plot (NR Band n41 PC2 - 100MHz CP-OFDM-QPSK – Full RB - 4th-MHB (SRS 1T4R))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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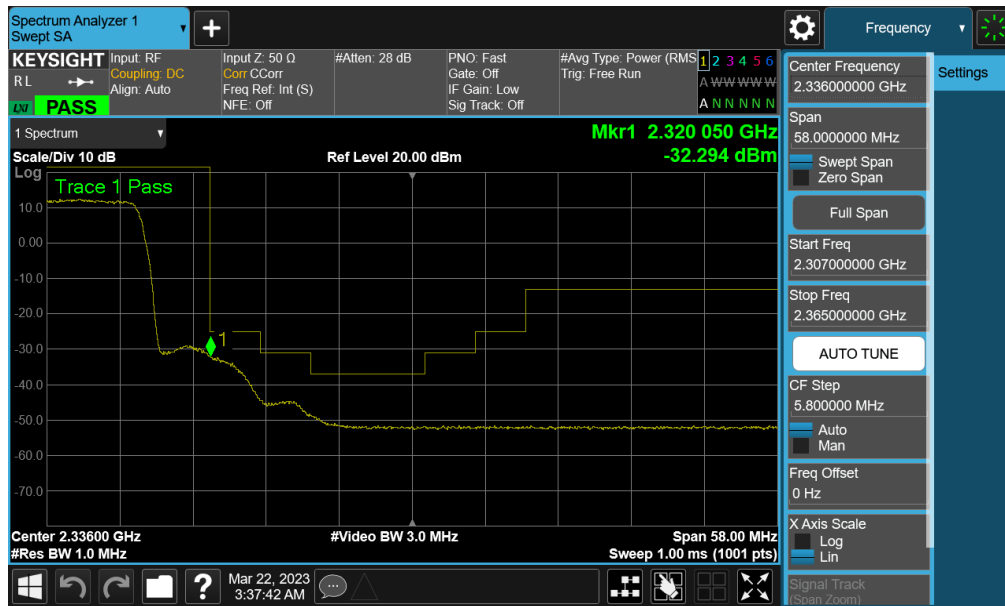
## NR Band n30 – Main2



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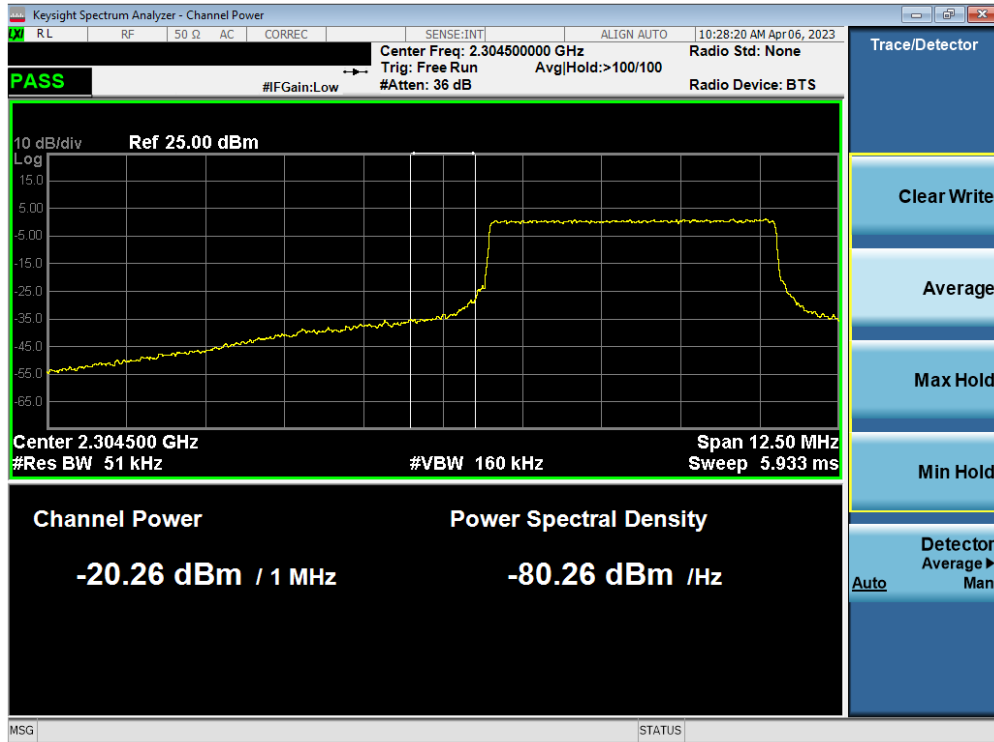


Plot 7-196. Upper Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Main2)



Plot 7-197. Extended Upper Band Edge Plot (NR Band n30 - 10MHz CP-OFDM-QPSK – Full RB - Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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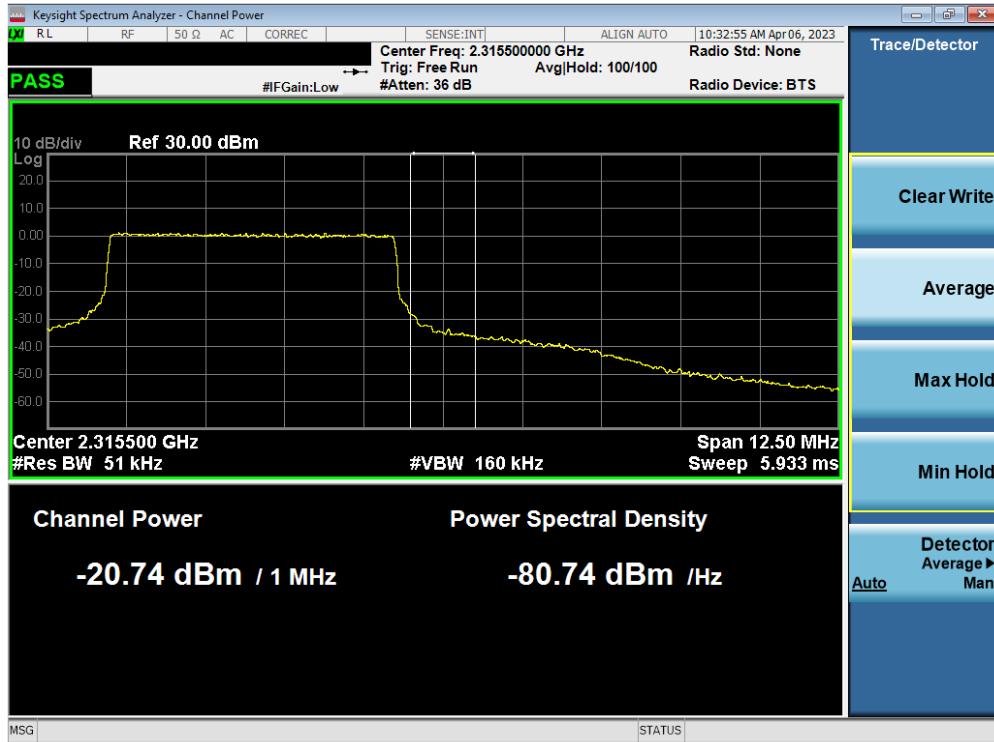


Plot 7-198. Lower Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Main2)



Plot 7-199. Extended Lower Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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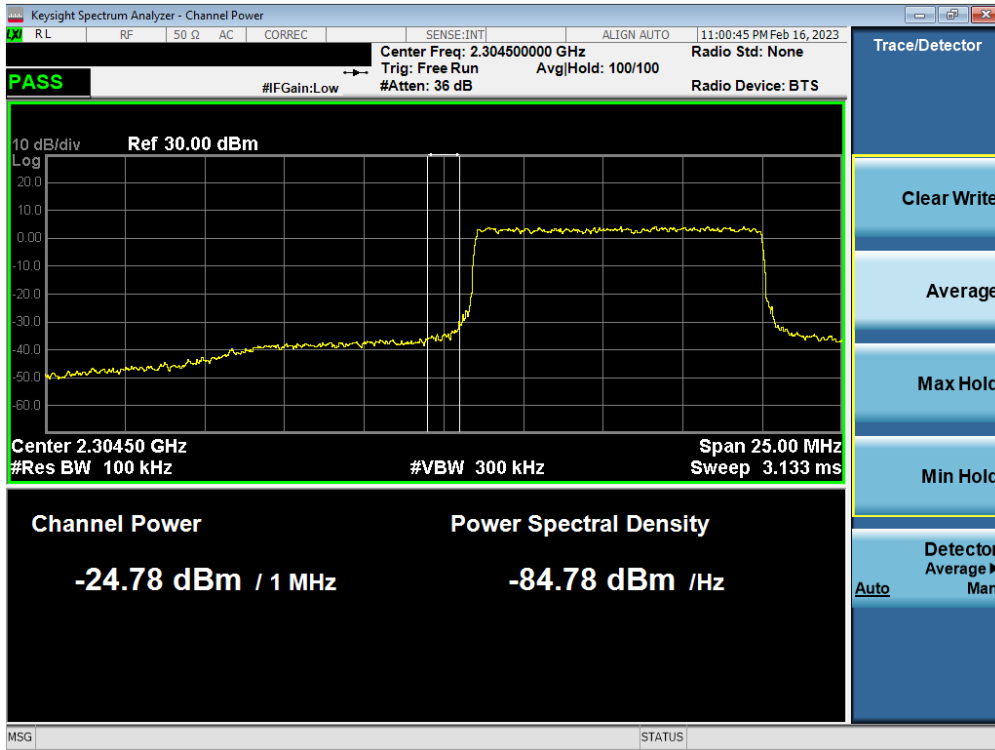
Plot 7-200. Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Main2)



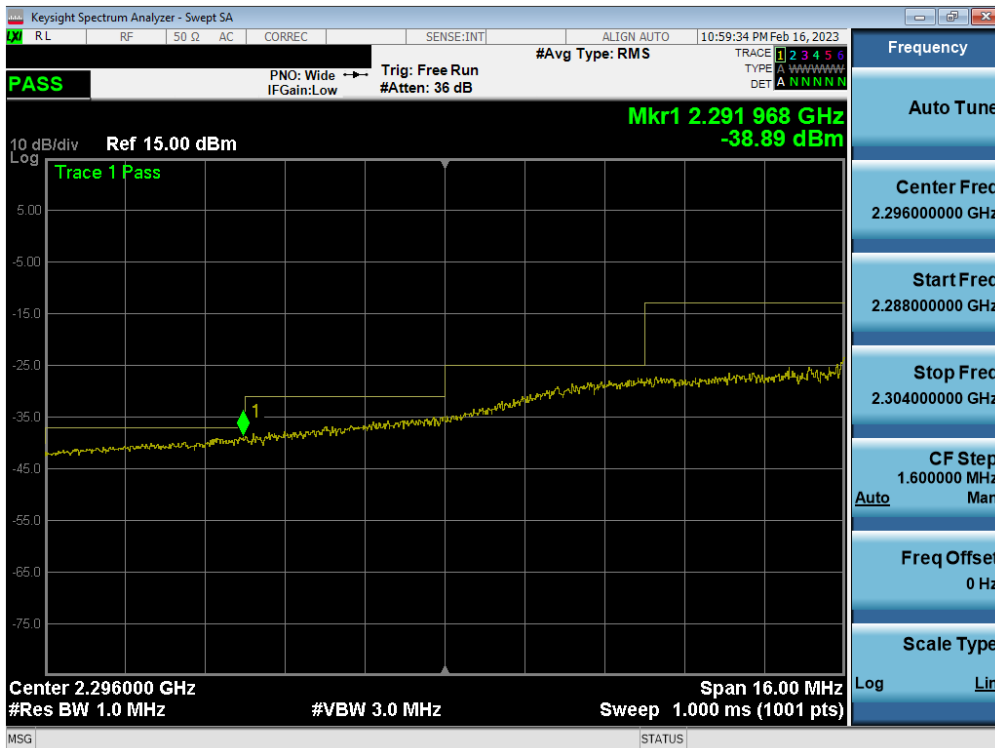
Plot 7-201. Extended Upper Band Edge Plot (NR Band n30 - 5MHz CP-OFDM-QPSK – Full RB - Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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### LTE Band 30 – Sub

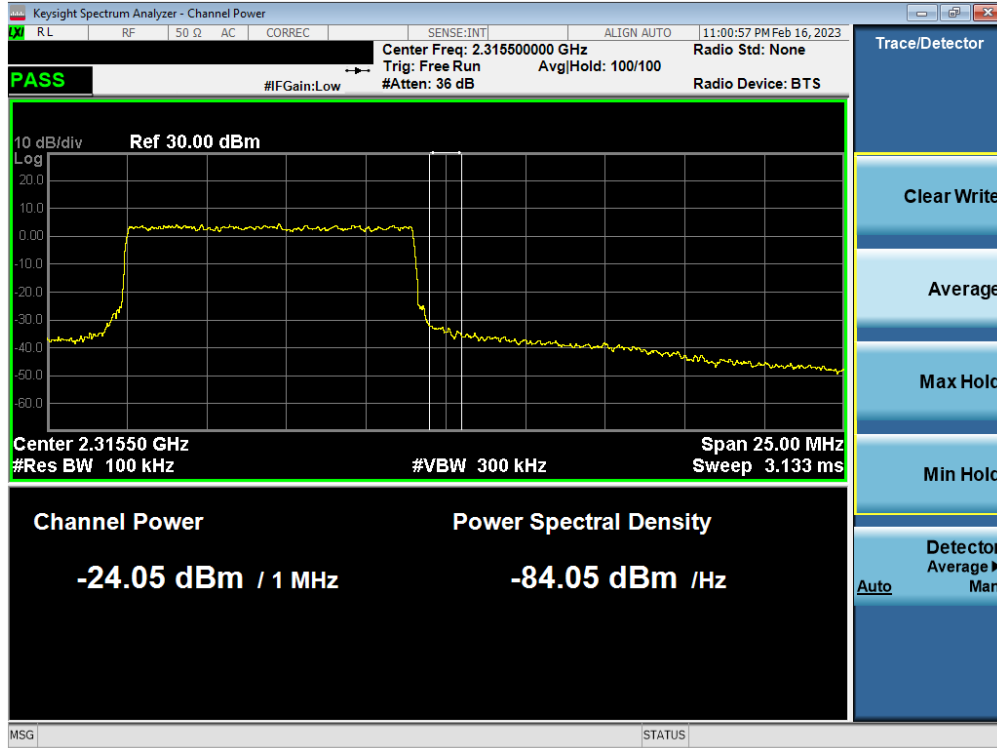


Plot 7-202. Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Sub)

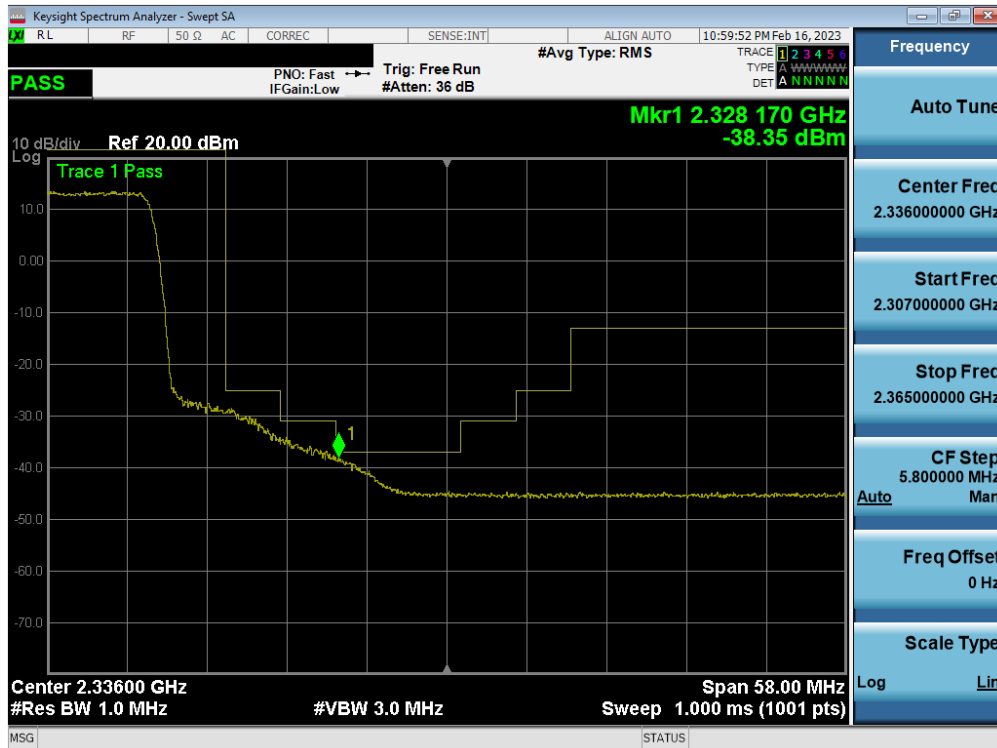


Plot 7-203. Extended Lower Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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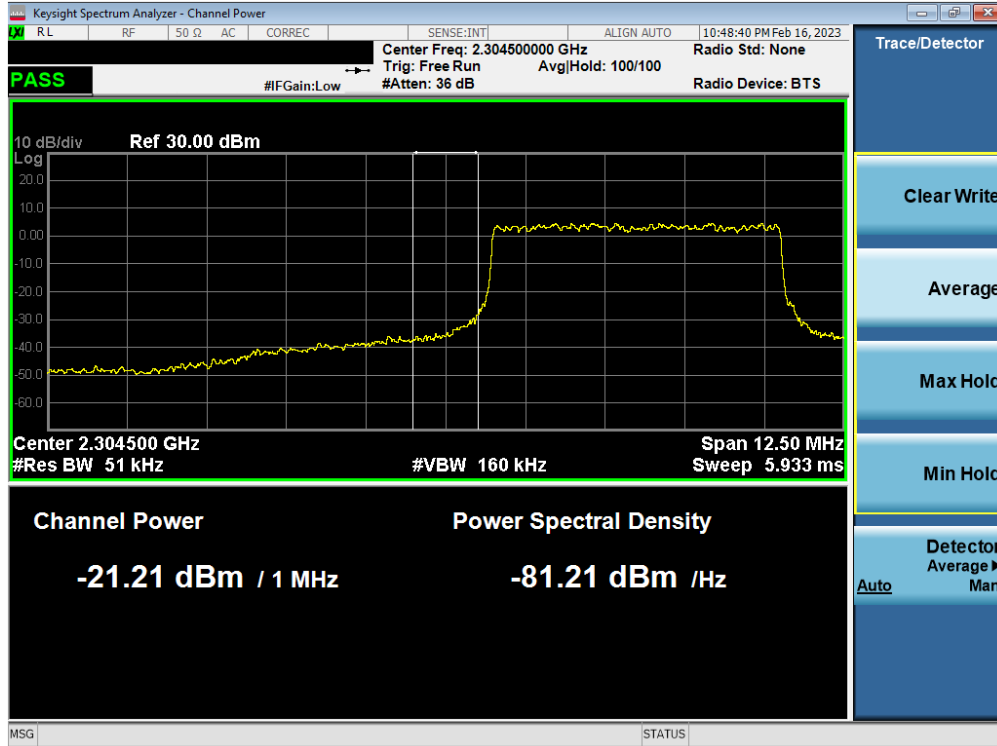
Plot 7-204. Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Sub)



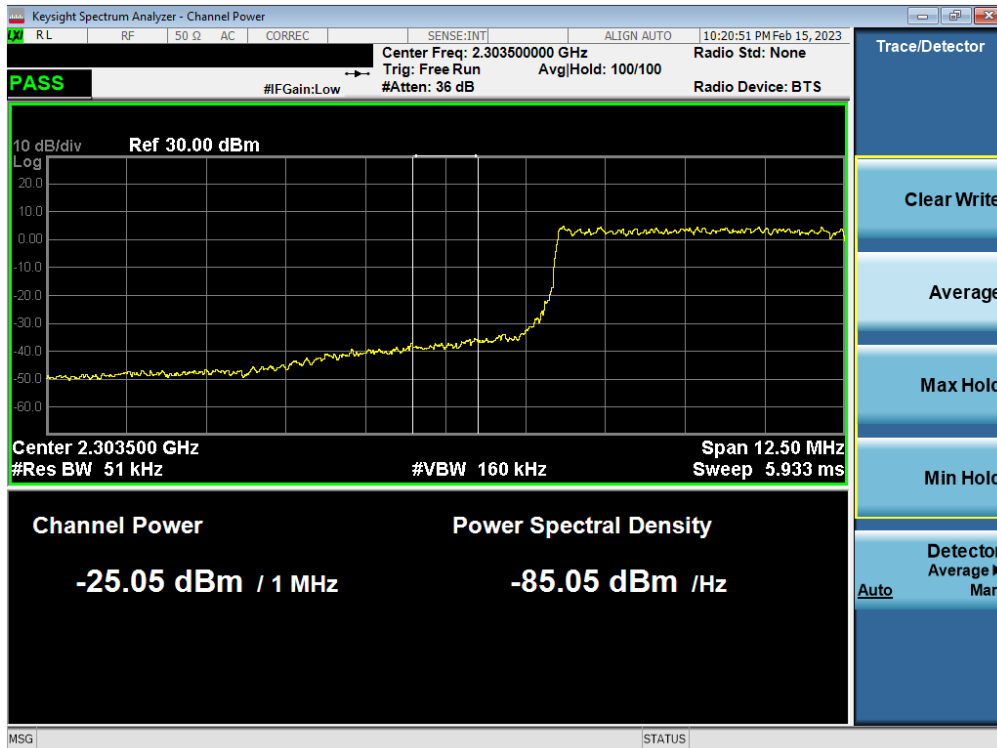
Plot 7-205. Extended Upper Band Edge Plot (LTE Band 30 - 10MHz QPSK – Full RB - Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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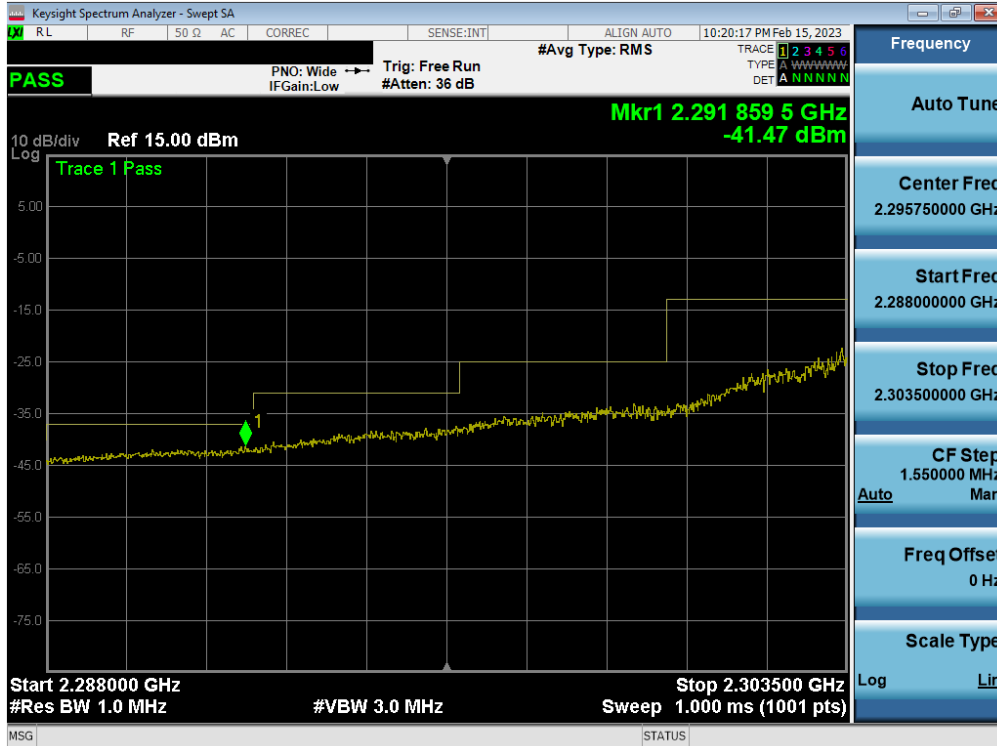


Plot 7-206. Lower Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Sub)

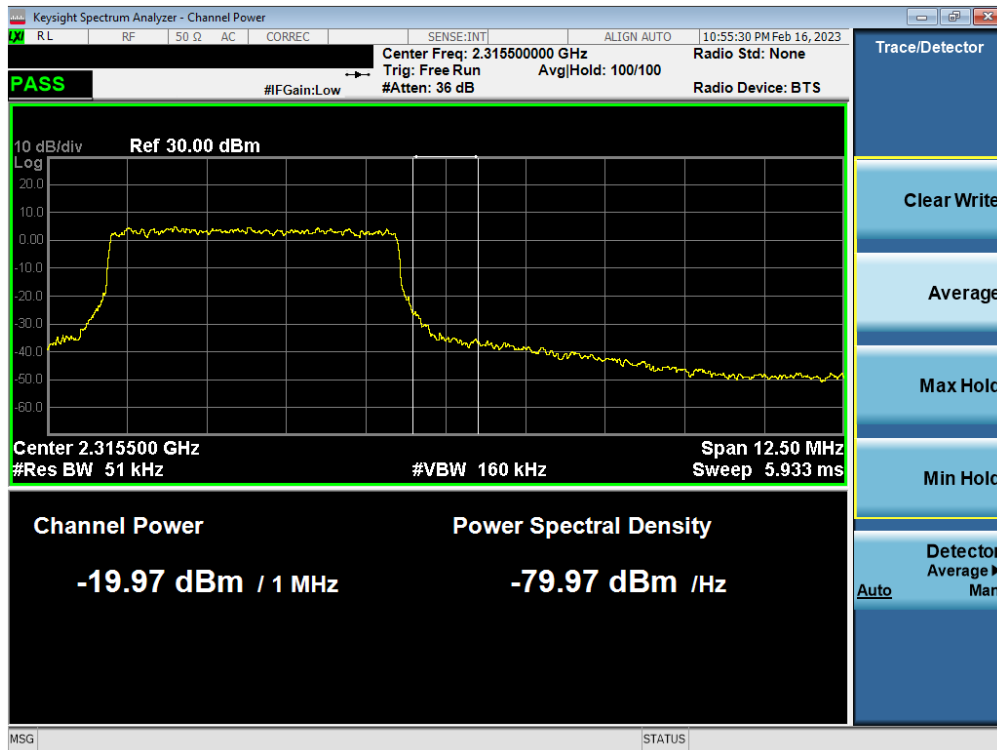


Plot 7-207. Extended Lower Band Edge Plot Integration at 2303.5MHz (LTE Band 30 - 5MHz QPSK – Full RB - Sub)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Plot 7-208. Extended Lower Band Edge Plot Below 2303MHz (LTE Band 30 - 5MHz QPSK – Full RB - Sub)



Plot 7-209. Upper Band Edge Plot (LTE Band 30 - 5MHz QPSK – Full RB - Sub)

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## 7.6 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.

### Test Procedures Used

ANSI C63.26-2015 – Section 5.2.4.4

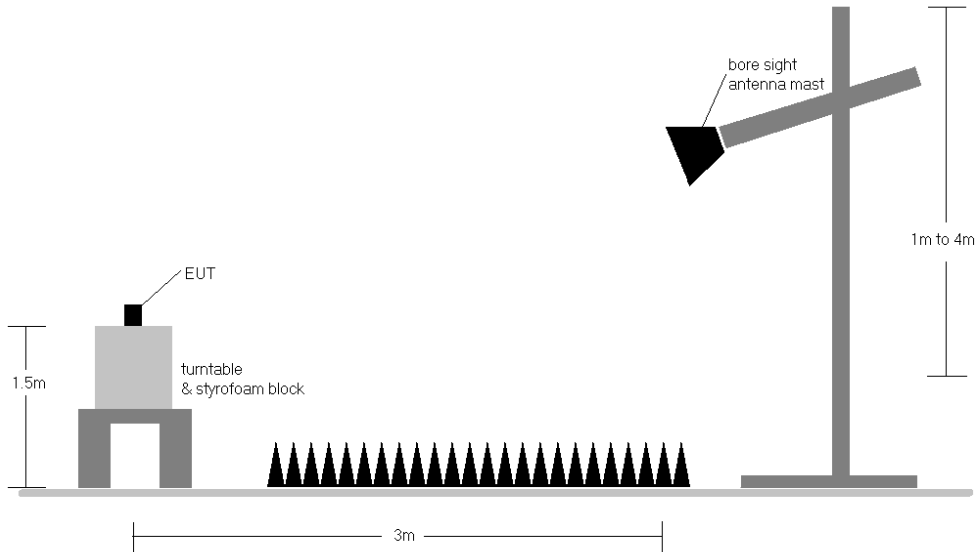
### Test Settings

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  $\geq$  3 x RBW
4. Span = 1.5 times the OBW
5. No. of sweep points  $\geq$  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.

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**Test Setup**

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



**Figure 7-5. Radiated Test Setup >1GHz**

**Test Notes**

- 1) 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.
- 2) This unit was tested with its standard battery.
- 3) 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.
- 4) UL-MIMO and SRS 2T4R have both antennas transmitting simultaneously for radiated power (EIRP).

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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]
10 MHz	QPSK	2310.0	V	120	307	10.37	1 / 49	9.09	19.46	0.088	23.98	-4.52
	16-QAM	2310.0	V	120	307	10.37	1 / 49	7.74	18.11	0.065	23.98	-5.87
5 MHz	QPSK	2307.5	V	120	307	10.36	1 / 12	8.95	19.32	0.085	23.98	-4.66
	QPSK	2310.0	V	120	307	10.37	1 / 0	9.02	19.40	0.087	23.98	-4.58
	QPSK	2312.5	V	120	307	10.36	1 / 0	9.10	19.46	0.088	23.98	-4.52
	16-QAM	2312.5	V	120	307	10.36	1 / 0	7.53	17.89	0.062	23.98	-6.09
5 MHz	Opposite Pol.	2310.0	H	139	153	10.37	1 / 24	8.80	19.17	0.083	23.98	-4.81
	WCP	2310.0	H	134	162	10.37	1 / 24	8.53	18.90	0.078	23.98	-5.08

Table 7-11. EIRP Data (LTE Band 30 – Main2)

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]
10 MHz	QPSK	2310.0	H	156	15	10.55	1 / 25	9.88	20.43	0.110	23.98	-3.55
	16-QAM	2310.0	H	156	15	10.55	1 / 25	8.74	19.29	0.085	23.98	-4.69
5 MHz	QPSK	2307.5	H	156	15	10.52	1 / 12	9.56	20.08	0.102	23.98	-3.90
	QPSK	2310.0	H	156	15	10.55	1 / 12	9.62	20.17	0.104	23.98	-3.81
	QPSK	2312.5	H	156	15	10.56	1 / 12	9.75	20.31	0.107	23.98	-3.67
	16-QAM	2310.0	H	156	15	10.55	1 / 12	8.75	19.30	0.085	23.98	-4.68
10 MHz	WCP	2310.0	H	117	5	10.55	1 / 25	7.51	18.06	0.064	23.98	-5.92

Table 7-12. EIRP Data (LTE Band 30 – Sub)

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]
20 MHz	QPSK	2506.0	V	117	125	9.50	1 / 50	11.34	20.84	0.121	33.01	-12.17
	QPSK	2593.0	V	134	124	9.49	1 / 50	11.31	20.80	0.120	33.01	-12.21
	QPSK	2680.0	V	121	127	9.87	1 / 0	10.00	19.87	0.097	33.01	-13.14
	16-QAM	2593.0	V	134	124	9.49	1 / 50	10.89	20.38	0.109	33.01	-12.63
15 MHz	QPSK	2503.5	V	117	125	9.50	1 / 37	11.29	20.79	0.120	33.01	-12.22
	QPSK	2593.0	V	134	124	9.49	1 / 74	11.30	20.79	0.120	33.01	-12.22
	QPSK	2682.5	V	121	127	9.87	1 / 74	9.94	19.80	0.096	33.01	-13.21
	16-QAM	2503.5	V	117	125	9.50	1 / 37	10.88	20.38	0.109	33.01	-12.63
10 MHz	QPSK	2501.0	V	117	125	9.49	1 / 25	11.60	21.09	0.129	33.01	-11.92
	QPSK	2593.0	V	134	124	9.49	1 / 25	11.46	20.95	0.124	33.01	-12.06
	QPSK	2685.0	V	121	127	9.86	1 / 25	10.19	20.05	0.101	33.01	-12.96
	16-QAM	2501.0	V	117	125	9.49	1 / 49	11.10	20.59	0.115	33.01	-12.42
5 MHz	QPSK	2498.5	V	117	125	9.49	1 / 12	11.64	21.13	0.130	33.01	-11.88
	QPSK	2593.0	V	134	124	9.49	1 / 12	11.46	20.95	0.124	33.01	-12.06
	QPSK	2687.5	V	121	127	9.86	1 / 12	10.26	20.11	0.103	33.01	-12.90
	16-QAM	2498.5	V	117	125	9.49	1 / 12	11.12	20.61	0.115	33.01	-12.40
20 MHz	WCP	2506.0	H	153	62	9.49	1 / 50	9.90	19.39	0.087	33.01	-13.62

Table 7-13. EIRP Data (LTE Band 41(PC3) – Main2)

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Bandwidth	Mod.	Frequency [MHz]	Ant. Pol. [HV]	Antenna Height [cm]	Turntable Azimuth [degree]	Ant. Gain [dBi]	RB Size/Offset	Substitute Level [dBm]	EIRP [dBm]	EIRP [Watts]	EIRP Limit [dBm]	Margin [dB]
100 MHz	QPSK	2546.01	V	133	5	9.40	1 / 136	10.14	19.54	0.090	33.01	-13.47
	QPSK	2592.99	V	125	15	9.46	1 / 136	9.06	18.52	0.071	33.01	-14.49
	QPSK	2640.00	V	118	12	9.50	1 / 136	8.20	17.70	0.059	33.01	-15.31
	16-QAM	2546.01	V	133	5	9.40	1 / 136	10.49	<b>19.89</b>	0.097	33.01	-13.12
	16-QAM	2592.99	V	125	15	9.46	1 / 136	8.91	18.37	0.069	33.01	-14.64
	16-QAM	2640.00	V	118	12	9.50	1 / 136	5.47	14.97	0.031	33.01	-18.04
	64-QAM	2546.01	V	133	5	9.40	1 / 136	10.18	19.58	0.091	33.01	-13.43
	64-QAM	2592.99	V	125	15	9.46	1 / 136	8.52	17.98	0.063	33.01	-15.03
	64-QAM	2640.00	V	118	12	9.50	1 / 136	3.69	13.19	0.021	33.01	-19.82
	256-QAM	2546.01	V	133	5	9.40	1 / 136	9.89	19.29	0.085	33.01	-13.72
	256-QAM	2592.99	V	125	15	9.46	1 / 136	8.14	17.60	0.058	33.01	-15.41
	256-QAM	2640.00	V	118	12	9.50	1 / 136	3.98	13.48	0.022	33.01	-19.53
90 MHz	QPSK	2541.00	V	133	5	9.46	1 / 122	10.23	19.69	0.093	33.01	-13.33
	QPSK	2592.99	V	125	15	9.46	1 / 122	9.02	18.48	0.070	33.01	-14.53
	QPSK	2644.98	V	118	12	9.51	1 / 122	8.10	17.61	0.058	33.01	-15.40
	16-QAM	2541.00	V	133	5	9.46	1/1	10.49	19.94	0.099	33.01	-13.07
	16-QAM	2592.99	V	125	15	9.46	245 / 0	8.99	18.45	0.070	33.01	-14.56
	16-QAM	2644.98	V	118	12	9.51	1/1	5.34	14.85	0.031	33.01	-18.16
	64-QAM	2541.00	V	133	5	9.46	1 / 122	11.13	<b>20.59</b>	0.114	33.01	-12.43
	64-QAM	2592.99	V	125	15	9.46	1 / 122	9.63	19.09	0.081	33.01	-13.92
	64-QAM	2644.98	V	118	12	9.51	1 / 183	4.11	13.62	0.023	33.01	-19.39
	256-QAM	2541.00	V	133	5	9.46	245 / 0	8.81	18.27	0.067	33.01	-14.74
	256-QAM	2592.99	V	125	15	9.46	245 / 0	7.94	17.40	0.055	33.01	-15.61
	256-QAM	2644.98	V	118	12	9.51	245 / 0	3.70	13.21	0.021	33.01	-19.80
80 MHz	QPSK	2536.02	V	133	5	9.49	1 / 162	10.28	19.76	0.095	33.01	-13.25
	QPSK	2592.99	V	125	15	9.46	1 / 108	9.04	18.50	0.071	33.01	-14.51
	QPSK	2649.99	V	118	12	9.52	217 / 0	7.79	17.30	0.054	33.01	-15.71
	16-QAM	2536.02	V	133	5	9.49	217 / 0	9.45	18.94	0.078	33.01	-14.07
	16-QAM	2592.99	V	125	15	9.46	217 / 0	8.98	18.44	0.070	33.01	-14.57
	16-QAM	2649.99	V	118	12	9.52	1/1	5.42	14.94	0.031	33.01	-18.07
	64-QAM	2536.02	V	133	5	9.49	1 / 108	11.09	<b>20.58</b>	0.114	33.01	-12.43
	64-QAM	2592.99	V	125	15	9.46	1 / 108	9.61	19.07	0.081	33.01	-13.94
	64-QAM	2649.99	V	118	12	9.52	1 / 108	4.16	13.68	0.023	33.01	-19.34
	256-QAM	2536.02	V	133	5	9.49	217 / 0	8.78	18.27	0.067	33.01	-14.74
	256-QAM	2592.99	V	125	15	9.46	217 / 0	7.85	17.32	0.054	33.01	-15.69
	256-QAM	2649.99	V	118	12	9.52	1/1	3.65	13.17	0.021	33.01	-19.84
60 MHz	QPSK	2526.00	V	133	5	9.52	1 / 121	10.19	19.70	0.093	33.01	-13.31
	QPSK	2592.99	V	125	15	9.46	162 / 0	9.01	18.47	0.070	33.01	-14.54
	QPSK	2659.98	V	118	12	9.50	1/1	8.20	17.70	0.059	33.01	-15.31
	16-QAM	2526.00	V	133	5	9.52	1 / 121	10.48	20.00	0.100	33.01	-13.01
	16-QAM	2592.99	V	125	15	9.46	1/1	8.91	18.38	0.069	33.01	-14.63
	16-QAM	2659.98	V	118	12	9.50	162 / 0	5.47	14.97	0.031	33.01	-18.04
	64-QAM	2526.00	V	133	5	9.52	162 / 0	11.04	<b>20.55</b>	0.114	33.01	-12.46
	64-QAM	2592.99	V	125	15	9.46	162 / 0	9.56	19.02	0.080	33.01	-13.99
	64-QAM	2659.98	V	118	12	9.50	1 / 81	4.14	13.63	0.023	33.01	-19.38
	256-QAM	2526.00	V	133	5	9.52	1 / 121	10.02	19.53	0.090	33.01	-13.48
	256-QAM	2592.99	V	125	15	9.46	1 / 81	8.92	18.38	0.069	33.01	-14.63
	256-QAM	2659.98	V	118	12	9.50	1 / 81	5.58	15.08	0.032	33.01	-17.93
50 MHz	QPSK	2521.02	V	133	5	9.51	133 / 0	10.24	19.75	0.094	33.01	-13.26
	QPSK	2592.99	V	125	15	9.46	133 / 0	9.00	18.46	0.070	33.01	-14.55
	QPSK	2664.99	V	118	12	9.51	133 / 0	8.10	17.61	0.058	33.01	-15.40
	16-QAM	2521.02	V	133	5	9.51	1 / 66	10.46	19.97	0.099	33.01	-13.04
	16-QAM	2592.99	V	125	15	9.46	133 / 0	8.97	18.43	0.070	33.01	-14.58
	16-QAM	2664.99	V	118	12	9.51	1 / 66	5.47	14.98	0.032	33.01	-18.03
	64-QAM	2521.02	V	133	5	9.51	1 / 99	10.72	<b>20.24</b>	0.106	33.01	-12.77
	64-QAM	2592.99	V	125	15	9.46	133 / 0	9.58	19.04	0.080	33.01	-13.97
	64-QAM	2664.99	V	118	12	9.51	1 / 99	4.17	13.68	0.023	33.01	-19.33
	256-QAM	2521.02	V	133	5	9.51	1 / 99	8.70	18.21	0.066	33.01	-14.80
	256-QAM	2592.99	V	125	15	9.46	133 / 0	8.78	18.24	0.067	33.01	-14.77
	256-QAM	2664.99	V	118	12	9.51	1 / 99	3.92	13.43	0.022	33.01	-19.58
40 MHz	QPSK	2516.01	V	133	5	9.52	1 / 79	10.09	19.61	0.091	33.01	-13.40
	QPSK	2592.99	V	125	15	9.46	1 / 79	9.06	18.52	0.071	33.01	-14.49
	QPSK	2670.00	V	118	12	9.52	1/1	8.11	17.63	0.068	33.01	-15.38
	16-QAM	2516.01	V	133	5	9.52	1 / 79	10.40	19.93	0.098	33.01	-13.08
	16-QAM	2592.99	V	125	15	9.46	106 / 0	8.90	18.36	0.069	33.01	-14.65
	16-QAM	2670.00	V	118	12	9.52	1 / 79	5.45	14.97	0.031	33.01	-18.04
	64-QAM	2516.01	V	133	5	9.52	1 / 79	11.05	<b>20.58</b>	0.114	33.01	-12.43
	64-QAM	2592.99	V	125	15	9.46	1 / 79	9.60	19.07	0.081	33.01	-13.94
	64-QAM	2670.00	V	118	12	9.52	1 / 79	4.16	13.68	0.023	33.01	-19.33
	256-QAM	2516.01	V	133	5	9.52	1 / 79	10.58	20.10	0.102	33.01	-12.91
	256-QAM	2592.99	V	125	15	9.46	1 / 79	8.43	17.89	0.061	33.01	-15.12
	256-QAM	2670.00	V	118	12	9.52	106 / 0	3.90	13.42	0.022	33.01	-19.59
30 MHz	QPSK	2511.00	V	133	5	9.54	78 / 0	9.59	19.13	0.082	33.01	-13.88
	QPSK	2592.99	V	125	15	9.46	78 / 0	8.95	18.41	0.069	33.01	-14.60
	QPSK	2674.98	V	118	12	9.52	1 / 39	8.12	17.64	0.058	33.01	-15.37
	16-QAM	2511.00	V	133	5	9.54	1/1	10.35	19.89	0.097	33.01	-13.12
	16-QAM	2592.99	V	125	15	9.46	1 / 39	8.92	18.39	0.069	33.01	-14.62
	16-QAM	2674.98	V	118	12	9.52	78 / 0	5.47	14.98	0.031	33.01	-18.03
	64-QAM	2511.00	V	133	5	9.54	78 / 0	10.90	<b>20.44</b>	0.111	33.01	-12.57
	64-QAM	2592.99	V	125	15	9.46	78 / 0	9.52	18.98	0.079	33.01	-14.03
	64-QAM	2674.98	V	118	12	9.52	78 / 0	4.16	13.68	0.023	33.01	-19.33
	256-QAM	2511.00	V	133	5	9.54	1/1	9.42	18.96	0.079	33.01	-14.05
	256-QAM	2592.99	V	125	15	9.46	1 / 39	9.25	18.72	0.074	33.01	-14.29
	256-QAM	2674.98	V	118	12	9.52	78 / 0	4.32	13.84	0.024	33.01	-19.17
20 MHz	QPSK	2506.02	V	133	5	9.54	1 / 37	10.19	19.73	0.094	33.01	-13.28
	QPSK	2592.99	V	125	15	9.46	1 / 37	8.94	18.40	0.069	33.01	-14.61
	QPSK	2679.99	V	118	12	9.51	51 / 0	7.97	17.48	0.056	33.01	-15.53
	16-QAM	2506.02	V	133	5	9.54	1 / 25	10.29	19.83	0.096	33.01	-13.18
	16-QAM	2592.99	V	125	15	9.46	1 / 25	8.84	18.30	0.068	33.01	-14.71
	16-QAM	2679.99	V	118	12	9.51	51 / 0	5.26	14.77	0.030	33.01	-18.24
	64-QAM	2506.02	V	133	5	9.54	1 / 37	11.05	<b>20.59</b>	0.115	33.01	-12.42
	64-QAM	2592.99	V	125	15	9.46	1 / 37	9.59	19.05	0.080	33.01	-13.96
	64-QAM	2679.99	V	118	12	9.51	1 / 37	4.13	13.64	0.023	33.01	-19.37
	256-QAM	2506.02	V	133	5	9.54	1 / 25	9.72	19.27	0.084	33.01	-13.74
	256-QAM	2592.99	V	125	15	9.46	1 / 37	9.18	18.65	0.073	33.01	-14.37
	256-QAM	2679.99	V	118	12	9.51	51 / 0	4.26	13.77	0.024	33.01	-19.24

Table 7-14. EIRP Data (NR Band n41 PC3 – UL-MIMO (Main2+Sub))

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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]
100 MHz	QPSK	2546.01	V	182	360	9.40	1 / 68	-0.18	9.22	0.008	33.01	-23.79
	QPSK	2592.99	V	168	347	9.46	1 / 68	1.91	11.37	0.014	33.01	-21.64
	QPSK	2640.00	V	167	10	9.50	1 / 68	0.87	10.37	0.011	33.01	-22.64
	16-QAM	2546.01	V	182	360	9.40	1 / 68	-0.26	9.14	0.008	33.01	-23.87
	16-QAM	2592.99	V	168	347	9.46	1 / 68	0.74	10.20	0.010	33.01	-22.81
	16-QAM	2640.00	V	167	10	9.50	1 / 68	0.67	10.17	0.010	33.01	-22.84
	64-QAM	2546.01	V	182	360	9.40	1 / 68	-0.93	8.47	0.007	33.01	-24.54
	64-QAM	2592.99	V	168	347	9.46	1 / 68	1.07	10.53	0.011	33.01	-22.48
	64-QAM	2640.00	V	167	10	9.50	1 / 68	-0.13	9.37	0.009	33.01	-23.64
	256-QAM	2546.01	V	182	360	9.40	1 / 68	-1.65	7.75	0.006	33.01	-25.26
256-QAM	2592.99	V	168	347	9.46	1 / 68	1.11	10.57	0.011	33.01	-22.44	
256-QAM	2640.00	V	167	10	9.50	1 / 68	0.32	9.82	0.010	33.01	-23.19	

Table 7-15. EIRP Data (NR Band n41 PC3 – SRS 2T4R (3<sup>rd</sup>-LMHB+4<sup>th</sup>-MHB))

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]
100 MHz	$\pi/2$ BPSK	2546.01	H	133	143	9.38	1 / 204	12.26	21.64	0.146	33.01	-11.37
	$\pi/2$ BPSK	2592.99	H	130	143	9.49	1 / 204	12.69	22.18	0.165	33.01	-10.83
	$\pi/2$ BPSK	2640.00	H	150	139	9.89	1 / 204	12.61	22.50	0.178	33.01	-10.51
	QPSK	2640.00	H	150	139	9.89	1 / 204	12.14	22.03	0.160	33.01	-10.98
	16-QAM	2640.00	H	150	139	9.89	1 / 204	12.36	22.25	0.168	33.01	-10.76
90 MHz	$\pi/2$ BPSK	2541.00	H	133	143	9.39	1 / 122	12.25	21.63	0.146	33.01	-11.38
	$\pi/2$ BPSK	2592.99	H	130	143	9.49	1 / 183	12.62	22.12	0.163	33.01	-10.89
	$\pi/2$ BPSK	2644.98	H	150	139	9.91	1 / 122	12.61	22.52	0.179	33.01	-10.49
	QPSK	2644.98	H	150	139	9.91	1 / 122	12.37	22.28	0.169	33.01	-10.73
16-QAM	2644.98	H	150	139	9.91	1 / 122	12.06	21.97	0.158	33.01	-11.04	
80 MHz	$\pi/2$ BPSK	2536.02	H	133	143	9.40	1 / 108	12.60	22.00	0.158	33.01	-11.01
	$\pi/2$ BPSK	2592.99	H	130	143	9.49	1 / 108	12.76	22.25	0.168	33.01	-10.76
	$\pi/2$ BPSK	2649.99	H	150	139	9.93	1 / 108	12.60	22.53	0.179	33.01	-10.48
	QPSK	2649.99	H	150	139	9.93	1 / 108	12.60	22.53	0.179	33.01	-10.48
16-QAM	2649.99	H	150	139	9.93	1 / 108	11.86	21.80	0.151	33.01	-11.22	
60 MHz	$\pi/2$ BPSK	2526.00	H	133	143	9.43	1 / 81	12.74	22.17	0.165	33.01	-10.84
	$\pi/2$ BPSK	2592.99	H	130	143	9.49	1 / 81	12.58	22.07	0.161	33.01	-10.94
	$\pi/2$ BPSK	2659.98	H	150	139	9.85	1 / 81	12.93	22.78	0.190	33.01	-10.23
	QPSK	2659.98	H	150	139	9.85	1 / 81	12.38	22.23	0.167	33.01	-10.78
16-QAM	2592.99	H	130	143	9.49	1 / 81	12.01	21.51	0.141	33.01	-11.51	
50 MHz	$\pi/2$ BPSK	2521.02	H	133	143	9.45	1/1	12.96	22.41	0.174	33.01	-10.60
	$\pi/2$ BPSK	2592.99	H	130	143	9.49	1 / 99	13.03	22.52	0.179	33.01	-10.49
	$\pi/2$ BPSK	2664.99	H	150	139	9.84	1 / 99	12.64	22.47	0.177	33.01	-10.54
	QPSK	2664.99	H	150	139	9.84	1 / 99	12.73	22.57	0.181	33.01	-10.44
16-QAM	2664.99	H	150	139	9.84	1 / 99	12.01	21.85	0.153	33.01	-11.16	
40 MHz	$\pi/2$ BPSK	2516.01	H	133	143	9.48	1 / 79	12.68	22.16	0.164	33.01	-10.85
	$\pi/2$ BPSK	2592.99	H	130	143	9.49	1 / 79	12.95	22.44	0.176	33.01	-10.57
	$\pi/2$ BPSK	2670.00	H	150	139	9.82	1 / 53	12.83	22.66	0.184	33.01	-10.35
	QPSK	2670.00	H	150	139	9.82	1 / 53	12.78	22.60	0.182	33.01	-10.41
16-QAM	2670.00	H	150	139	9.82	1 / 53	12.20	22.02	0.159	33.01	-10.99	
30 MHz	$\pi/2$ BPSK	2511.00	H	133	143	9.50	1 / 58	12.78	22.29	0.169	33.01	-10.72
	$\pi/2$ BPSK	2592.99	H	130	143	9.49	1 / 58	13.12	22.61	0.182	33.01	-10.40
	$\pi/2$ BPSK	2674.98	H	150	139	9.85	1 / 58	12.92	22.77	0.189	33.01	-10.24
	QPSK	2674.98	H	150	139	9.85	1 / 58	13.00	22.84	0.192	33.01	-10.17
16-QAM	2674.98	H	150	139	9.85	1 / 58	12.40	22.25	0.168	33.01	-10.76	
20 MHz	$\pi/2$ BPSK	2506.02	H	133	143	9.50	1/1	12.62	22.12	0.163	33.01	-10.89
	$\pi/2$ BPSK	2592.99	H	130	143	9.49	1/1	12.83	22.32	0.171	33.01	-10.69
	$\pi/2$ BPSK	2679.99	H	150	139	9.87	1/1	12.76	22.63	0.183	33.01	-10.38
	QPSK	2679.99	H	150	139	9.87	1/1	12.74	22.61	0.182	33.01	-10.40
16-QAM	2679.99	H	150	139	9.87	1/1	12.10	21.97	0.157	33.01	-11.04	
100 MHz	QPSK (WCP)	2640.00	H	139	147	9.89	1 / 204	11.19	21.08	0.128	33.01	-11.93

Table 7-16. EIRP Data (NR Band n41 PC2 – Main2)

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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]
100 MHz	$\pi/2$ BPSK	2546.01	H	121	184	9.38	270 / 0	6.48	15.86	0.039	33.01	-17.15
	$\pi/2$ BPSK	2592.99	H	128	188	9.49	270 / 0	6.72	16.21	0.042	33.01	-16.80
	$\pi/2$ BPSK	2640.00	H	118	181	9.89	270 / 0	7.60	<b>17.49</b>	0.056	33.01	-15.52
	QPSK	2640.00	H	118	181	9.89	270 / 0	7.57	17.46	0.056	33.01	-15.55
	16-QAM	2640.00	H	118	181	9.89	270 / 0	7.48	17.37	0.055	33.01	-15.64

Table 7-17. EIRP Data (NR Band n41 PC2 – Sub (SRS 1T4R))

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]
100 MHz	$\pi/2$ BPSK	2546.01	V	133	350	9.40	1 / 204	2.01	11.41	0.014	33.01	-21.60
	$\pi/2$ BPSK	2592.99	V	131	359	9.46	1 / 136	3.55	13.01	0.020	33.01	-20.00
	$\pi/2$ BPSK	2640.00	V	142	350	9.50	1 / 204	4.94	<b>14.44</b>	0.028	33.01	-18.57
	QPSK	2640.00	V	142	350	9.50	1 / 204	4.25	13.75	0.024	33.01	-19.26
	16-QAM	2640.00	V	142	350	9.50	1 / 204	3.88	13.38	0.022	33.01	-19.63

Table 7-18. EIRP Data (NR Band n41 PC2 – 3rd-LMHB (SRS 1T4R))

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]
100 MHz	$\pi/2$ BPSK	2546.01	H	146	359	9.38	1 / 136	4.06	13.44	0.022	33.01	-19.57
	$\pi/2$ BPSK	2592.99	H	142	9	9.49	1 / 136	3.43	12.92	0.020	33.01	-20.09
	$\pi/2$ BPSK	2640.00	H	133	27	9.89	1 / 136	3.23	13.12	0.021	33.01	-19.89
	QPSK	2546.01	H	146	359	9.38	1 / 136	4.33	<b>13.71</b>	0.023	33.01	-19.30
	16-QAM	2546.01	H	146	359	9.38	1 / 136	3.19	12.57	0.018	33.01	-20.44

Table 7-19. EIRP Data (NR Band n41 PC2 – 4th-MHB (SRS 1T4R))

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]
10 MHz	$\pi/2$ BPSK	2310.0	H	163	10	10.55	1 / 26	8.63	<b>19.18</b>	0.083	23.98	-4.80
	QPSK	2310.0	H	163	10	10.55	1 / 26	8.51	19.06	0.080	23.98	-4.92
	16-QAM	2310.0	H	163	10	10.55	1 / 26	7.65	18.20	0.066	23.98	-5.78
5 MHz	$\pi/2$ BPSK	2307.5	H	163	10	10.52	1 / 12	9.17	19.69	0.093	23.98	-4.29
	$\pi/2$ BPSK	2310.0	H	163	10	10.55	1 / 12	9.33	19.88	0.097	23.98	-4.10
	$\pi/2$ BPSK	2312.5	H	163	10	10.56	1 / 12	9.06	19.62	0.092	23.98	-4.36
	QPSK	2310.0	H	163	10	10.55	1 / 12	9.47	<b>20.02</b>	0.100	23.98	-3.96
10 MHz	16-QAM	2312.5	H	163	10	10.56	1 / 12	7.73	18.29	0.067	23.98	-5.69
	WCP	2310.0	H	149	168	10.55	1 / 26	6.55	17.10	0.051	23.98	-6.88

Table 7-20. EIRP Data (NR Band n30 – Main2)

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## 7.7 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

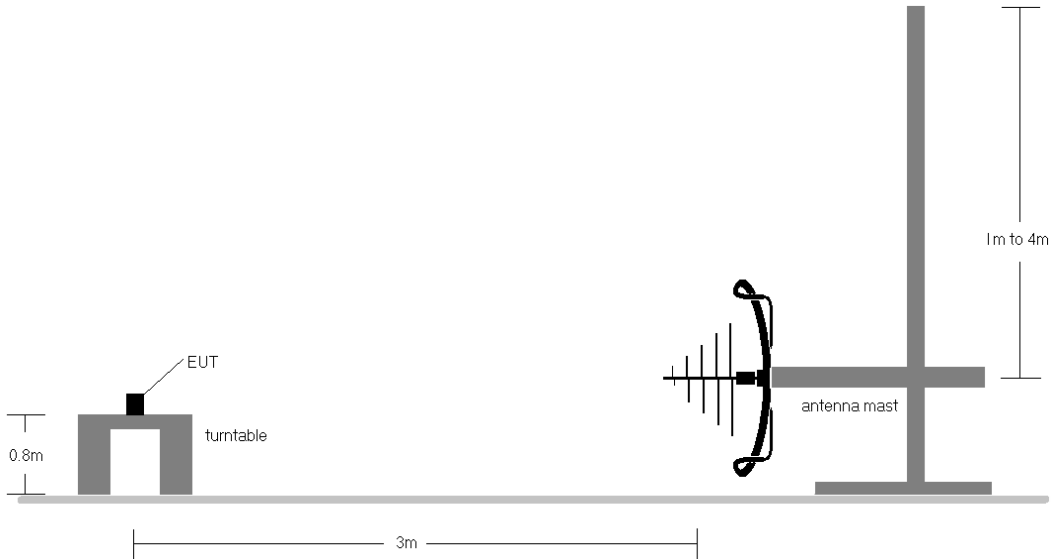
### Test Settings

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

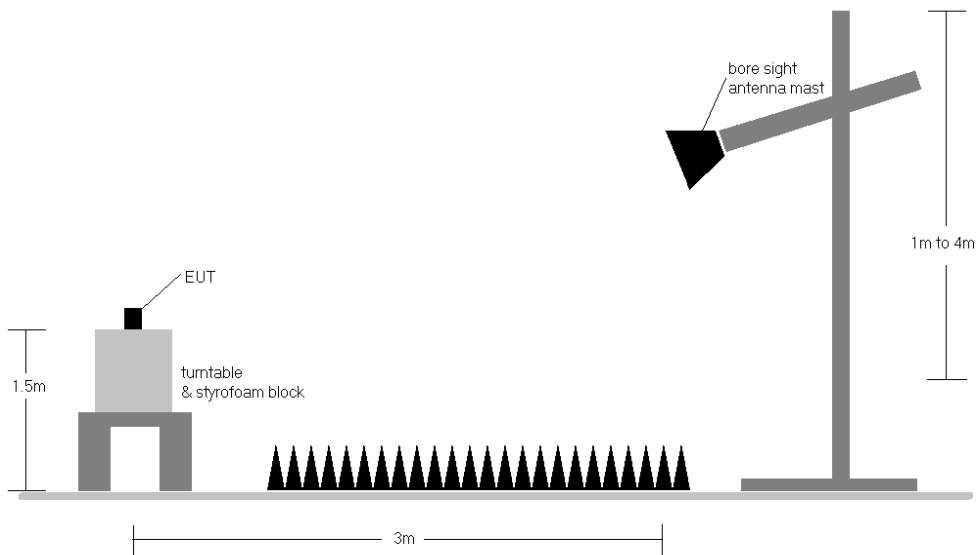
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**Test Setup**

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



**Figure 7-6. Test Instrument & Measurement Setup < 1GHz**



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

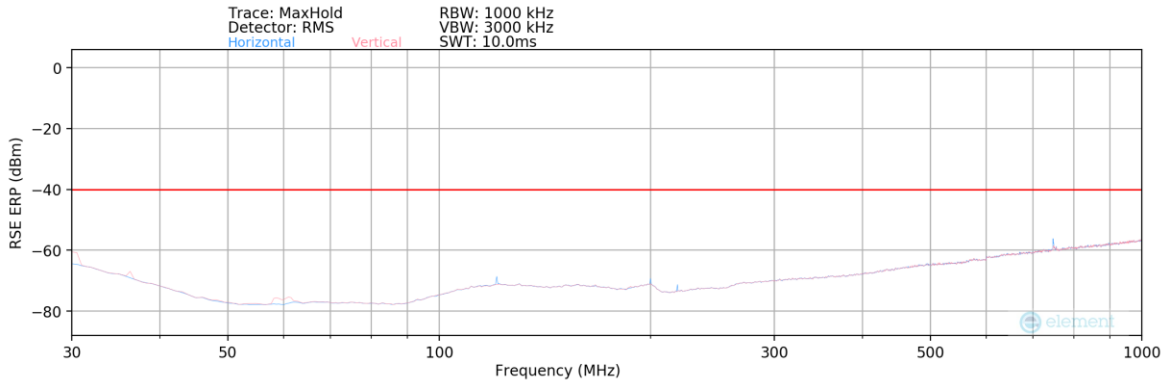
<b>FCC ID:</b> PY7-84558E	<b>PART 27 MEASUREMENT REPORT</b>		<b>Approved by:</b> Technical Manager
<b>Test Report S/N:</b> 1M2302060006-04-R1.PY7	<b>Test Dates:</b> 02/16/2023 - 04/06/2023	<b>EUT Type:</b> Portable Handset	Page 140 of 171

**Test Notes**

- 1) Field strengths are calculated using the Measurement quantity conversions in ANSI C63.26-2015 Section 5.2.7:
  - a)  $E(\text{dB}\mu\text{V}/\text{m}) = \text{Measured amplitude level (dBm)} + 107 + \text{Cable Loss (dB)} + \text{Antenna Factor (dB/m)}$
  - b)  $\text{EIRP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8$ ; where D is the measurement distance in meters.
  - c)  $\text{ERP (dBm)} = E(\text{dB}\mu\text{V}/\text{m}) + 20\log D - 104.8 - 2.15$ ; where D is the measurement distance in meters.
- 2) 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.
- 3) This unit was tested with its standard battery.
- 4) The spectrum is measured from 9kHz to the 10th harmonic of the fundamental frequency of the transmitter. The worst-case emissions are reported.
- 5) 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.
- 6) The "-" shown in the following RSE tables are used to denote a noise floor measurement.
- 7) 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.
- 8) 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 is 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.
- 9) UL-MIMO and SRS 2T4R have both antennas transmitting simultaneously for radiated spurious emissions.
- 10) Only the worst-case EN-DC combination is reported for NR band n30, the other EN-DC combinations were spot-checked and not found to be worst-case.

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# LTE Band 30 – Main2

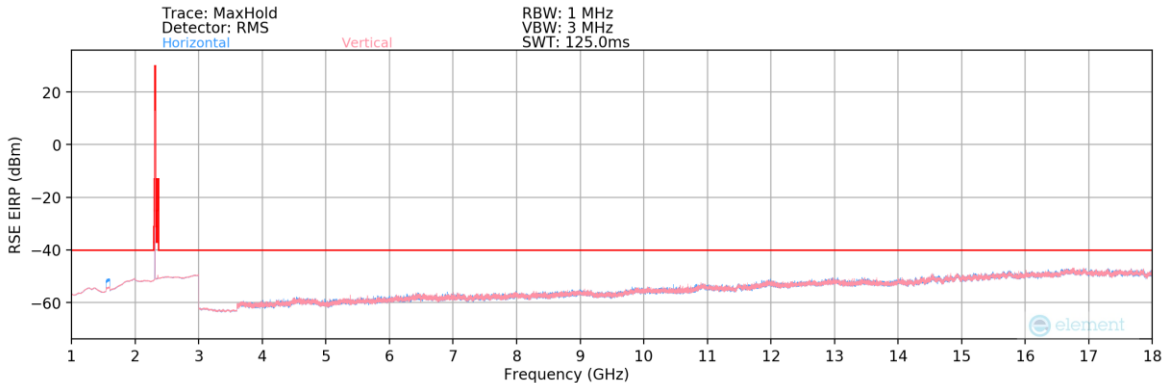


Plot 7-211. Radiated Spurious Plot 30MHz-1GHz (LTE Band 30 – Main2)

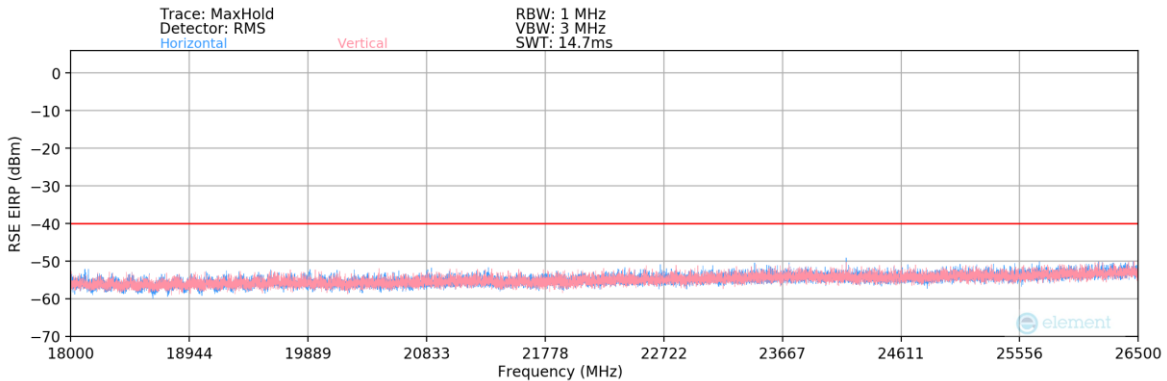
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

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]
747.00	H	-	-	-89.73	29.14	46.41	-51.00	-40.00	-11.00

Table 7-21. Radiated Spurious Data 30MHz-1GHz (LTE Band 30 – Mid Channel – Main2)



Plot 7-212. Radiated Spurious Plot 1-18GHz (LTE Band 30 – Main2)



Plot 7-213. Radiated Spurious Plot 18-26.5GHz (LTE Band 30 – Main2)

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Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.00	H	-	-	-78.73	4.20	32.47	-62.78	-40.00	-22.78
6930.00	H	395	72	-79.65	7.12	34.47	-60.79	-40.00	-20.79
9240.00	H	-	-	-80.34	8.30	34.96	-60.30	-40.00	-20.30
11550.00	H	-	-	-81.92	12.12	37.20	-58.06	-40.00	-18.06
13860.00	H	-	-	-82.57	14.42	38.85	-56.41	-40.00	-16.41

Table 7-22. Radiated Spurious Data (LTE Band 30 – Mid Channel – Main2)

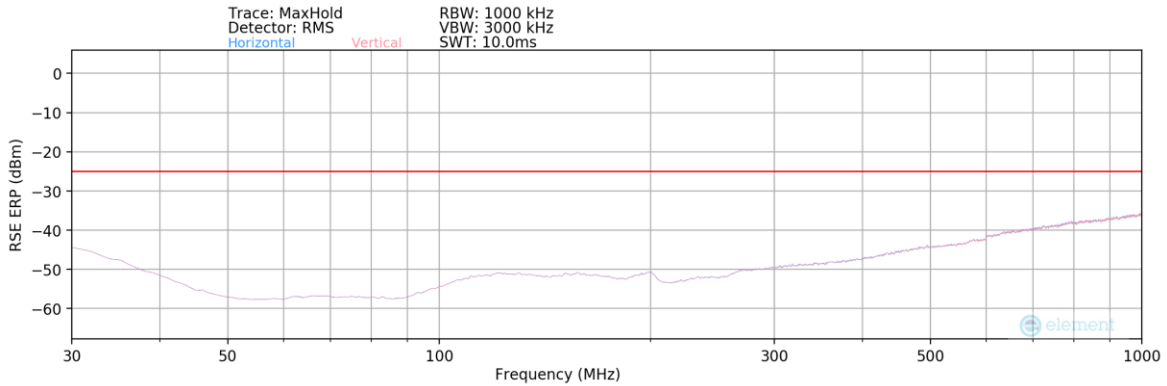
Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 25

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.00	V	-	-	-78.67	4.20	32.53	-62.72	-40.00	-22.72
6930.00	V	248	274	-79.83	7.12	34.29	-60.97	-40.00	-20.97
9240.00	V	-	-	-80.39	8.30	34.91	-60.35	-40.00	-20.35
11550.00	V	-	-	-81.90	12.12	37.22	-58.04	-40.00	-18.04
13860.00	V	-	-	-82.66	14.42	38.76	-56.50	-40.00	-16.50

Table 7-23. Radiated Spurious Data with WCP (LTE Band 30 – Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# LTE Band 41(PC3) – Main2

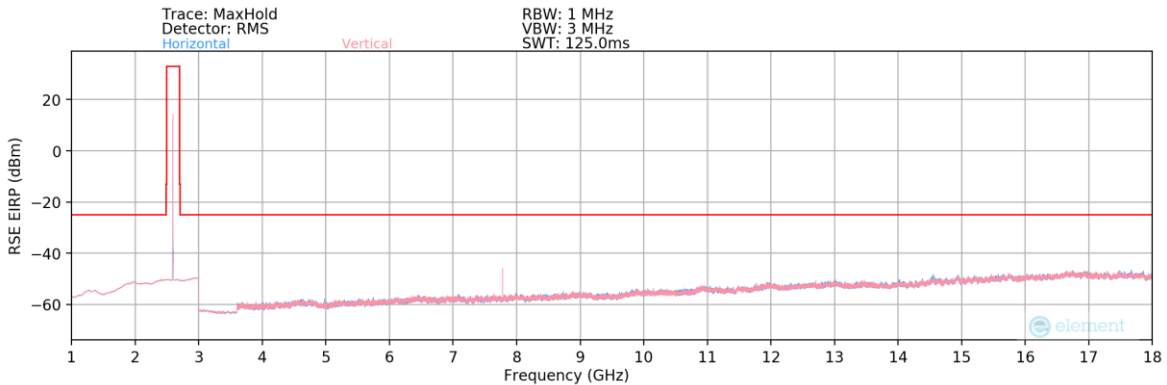


Plot 7-214. Radiated Spurious Plot 30MHz-1GHz (LTE Band 41(PC3) – Main2)

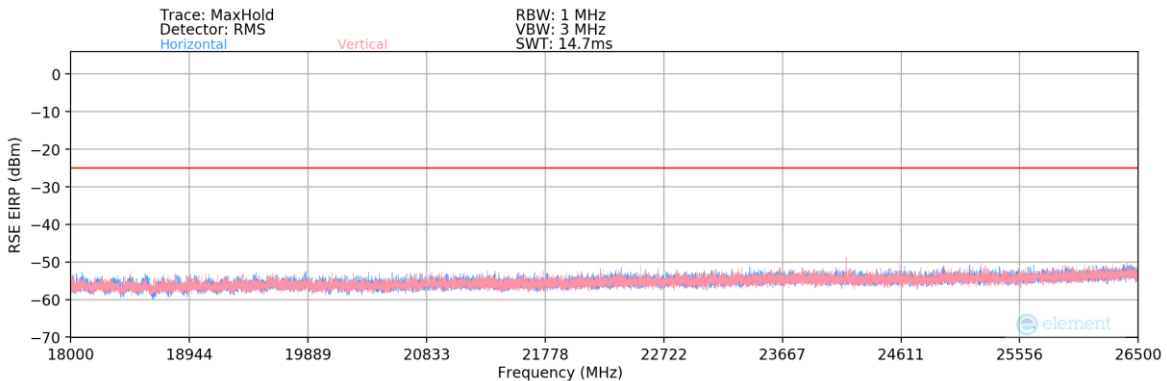
Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

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]
116.00	V	-	-	-85.54	20.21	41.67	-55.73	-25.00	-30.73

Table 7-24. Radiated Spurious Data 30MHz-1GHz (LTE Band 41(PC3) – Mid Channel – Main2)



Plot 7-215. Radiated Spurious Plot 1-18GHz (LTE Band 41(PC3) – Main2)



Plot 7-216. Radiated Spurious Plot 18-26.5GHz (LTE Band 41(PC3) – Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	20
Frequency (MHz):	2506.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5012.00	V	-	-	-77.12	8.09	37.97	-57.29	-25.00	-32.29
7518.00	V	263	130	-61.83	11.95	57.12	-38.14	-25.00	-13.14
10024.00	V	-	-	-78.47	15.58	44.11	-51.15	-25.00	-26.15
12530.00	V	-	-	-79.84	19.63	46.79	-48.46	-25.00	-23.46
15036.00	V	-	-	-80.34	21.80	48.46	-46.80	-25.00	-21.80

Table 7-25. Radiated Spurious Data (LTE Band 41(PC3) – Low Channel – Main2)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	V	-	-	-77.40	8.56	38.16	-57.10	-25.00	-32.10
7779.00	V	272	132	-58.62	12.06	60.44	-34.82	-25.00	-9.82
10372.00	V	-	-	-79.72	16.41	43.69	-51.57	-25.00	-26.57
12965.00	V	-	-	-79.76	20.25	47.49	-47.76	-25.00	-22.76
15558.00	V	-	-	-79.70	23.67	50.97	-44.29	-25.00	-19.29

Table 7-26. Radiated Spurious Data (LTE Band 41(PC3) – Mid Channel – Main2)

Bandwidth (MHz):	20
Frequency (MHz):	2680.0
RB / Offset:	1 / 50

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5360.00	V	-	-	-76.87	8.70	38.83	-56.42	-25.00	-31.42
8040.00	V	385	168	-64.01	12.77	55.76	-39.50	-25.00	-14.50
10720.00	V	-	-	-78.97	16.87	44.90	-50.36	-25.00	-25.36
13400.00	V	-	-	-79.72	20.11	47.39	-47.86	-25.00	-22.86
16080.00	V	-	-	-79.94	23.56	50.62	-44.63	-25.00	-19.63

Table 7-27. Radiated Spurious Data (LTE Band 41(PC3) – High Channel – Main2)

Bandwidth (MHz):	20
Frequency (MHz):	2593.0
RB / Offset:	1/50

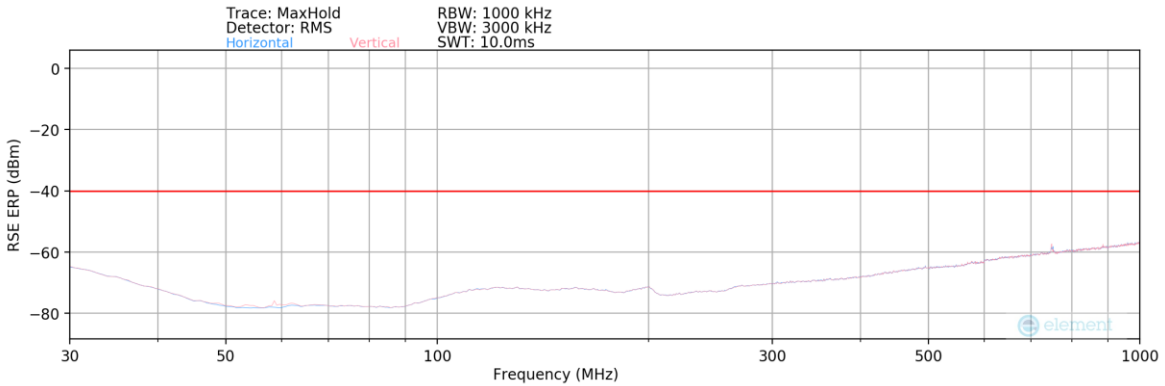
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dB $\mu$ V/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5186.00	V	-	-	-77.07	8.56	38.49	-56.77	-25.00	-31.77
7779.00	V	400	54	-61.52	12.06	57.54	-37.72	-25.00	-12.72
10372.00	V	-	-	-79.65	16.41	43.76	-51.50	-25.00	-26.50
12965.00	V	-	-	-79.82	20.25	47.43	-47.82	-25.00	-22.82
15558.00	V	-	-	-79.68	23.67	50.99	-44.27	-25.00	-19.27

Table 7-28. Radiated Spurious Data with WCP (LTE Band 41(PC3) – Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR Band n30 – Main2

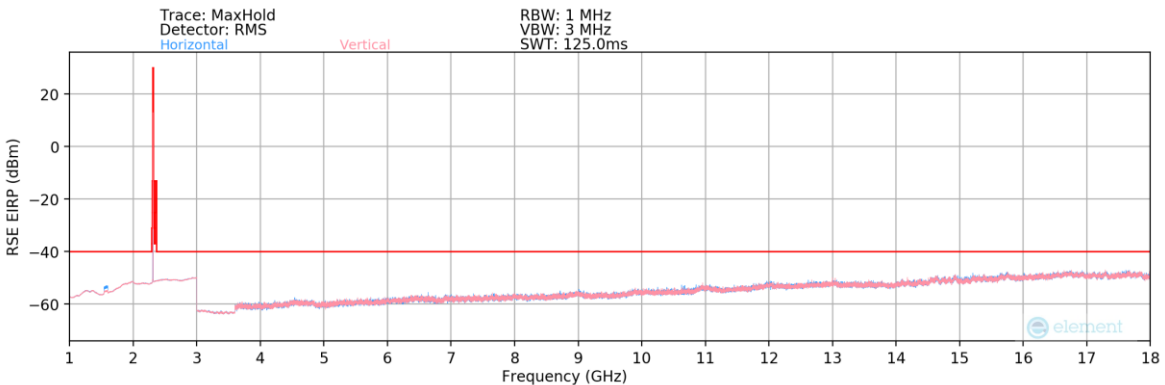


Plot 7-217. Radiated Spurious Plot 30MHz-1GHz (NR Band n30 – Main2)

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 26

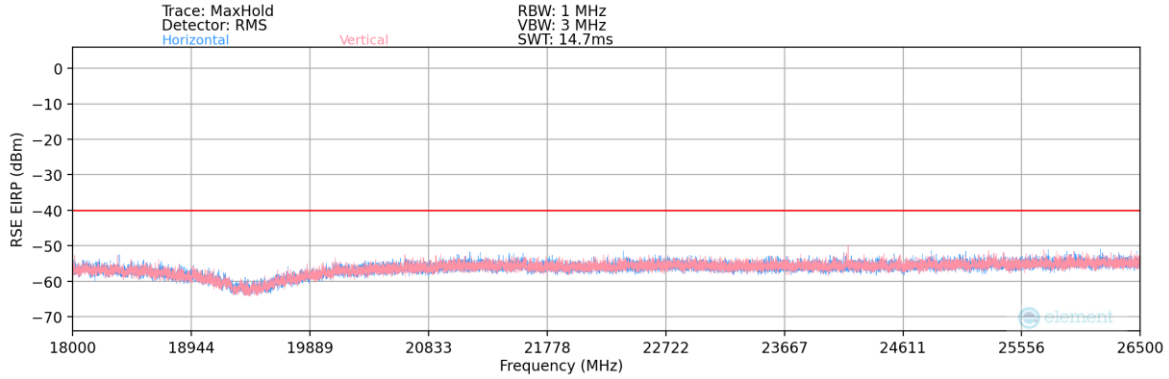
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	ERP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
749.98	H	-	-	-89.87	29.40	46.53	-50.88	-40.00	-10.88

Table 7-29. Radiated Spurious Data 30MHz-1GHz (NR Band n30 – Mid Channel – Main2)



Plot 7-218. Radiated Spurious Plot 1-18GHz (NR Band n30 – Main2)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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**Plot 7-219. Radiated Spurious Plot 18-26.5GHz (NR Band n30 – Main2)**

Bandwidth (MHz):	10
Frequency (MHz):	2310.0
RB / Offset:	1 / 26

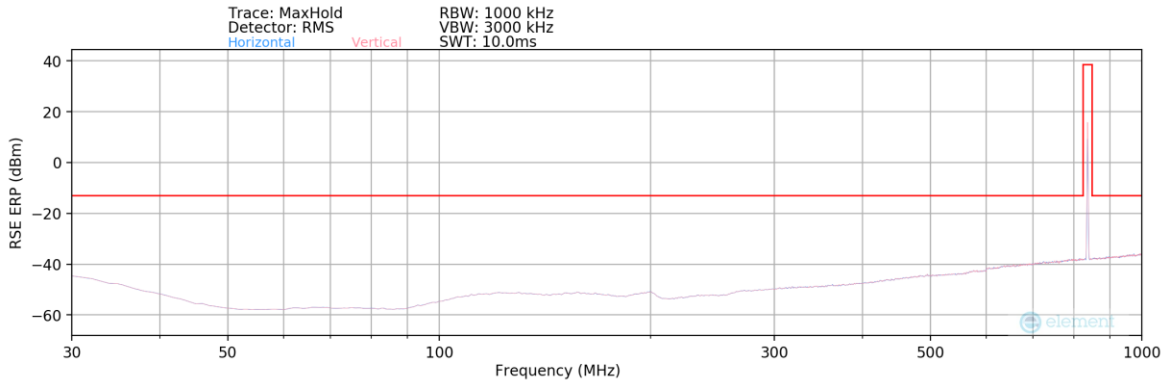
Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBµV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
4620.00	H	-	-	-79.33	6.93	34.60	-60.66	-40.00	-20.66
6930.00	H	-	-	-80.41	11.27	37.86	-57.40	-40.00	-17.40
9240.00	H	-	-	-81.11	14.65	40.54	-54.72	-40.00	-14.72

**Table 7-30. Radiated Spurious Data (NR Band n30 – Mid Channel – Main2)**

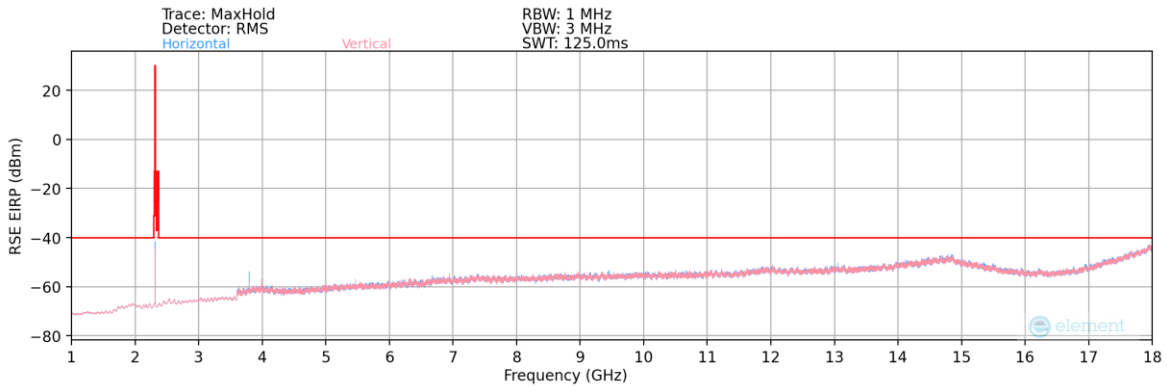
FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-04-R1.PY7	Test Dates: 02/16/2023 - 04/06/2023	EUT Type: Portable Handset	Page 147 of 171



## EN-DC: NR Band n30 Main2 – LTE Band 5 Main1



Plot 7-220. Radiated Spurious Plot 30MHz-1GHz (EN-DC: NR Band n30 Main2 – LTE Band 5 Main1)



Plot 7-221. Radiated Spurious Plot 1GHz-18GHz (EN-DC: NR Band n30 Main2 – LTE Band 5 Main1)

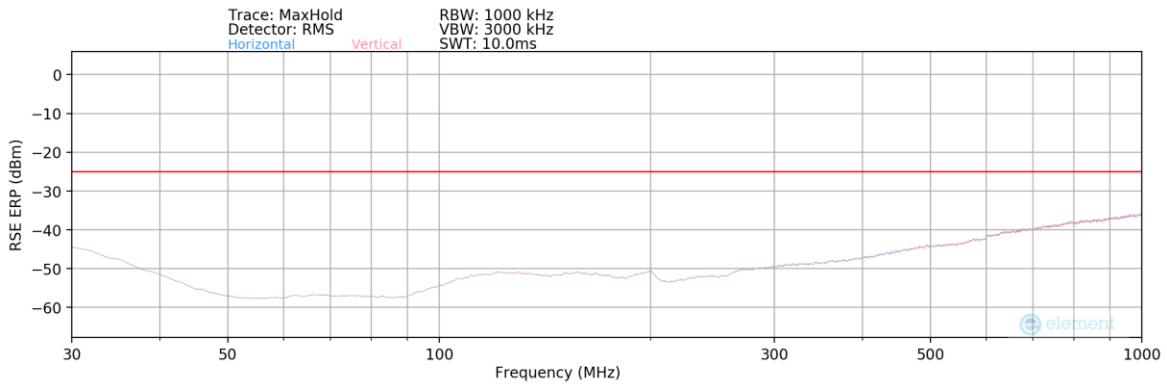
Bandwidth (MHz):	10 / 10
Frequency (MHz):	2310 / 836.5
RB / Offset:	1 / 26 & 1 / 25
Mode:	EN-DC
Anchor Band:	Band 5

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBμV/m]	E(I)RP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
637.00	H	-	-	-90.29	28.11	44.82	-52.59	-40.00	-12.59
3783.50	H	126	76	-64.94	-1.50	40.56	-54.70	-40.00	-14.70
3983.00	H	303	235	-67.26	-1.37	38.37	-56.89	-40.00	-16.89
5456.50	H	174	38	-70.40	-0.07	36.53	-58.72	-40.00	-18.72
5656.00	H	-	-	-74.95	0.43	32.48	-62.78	-40.00	-22.78

Table 7-31. Radiated Spurious Data (EN-DC: NR Band n30 Main2 – LTE Band 5 Main1)

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR n41 PC3 – Main2+Sub (UL-MIMO)

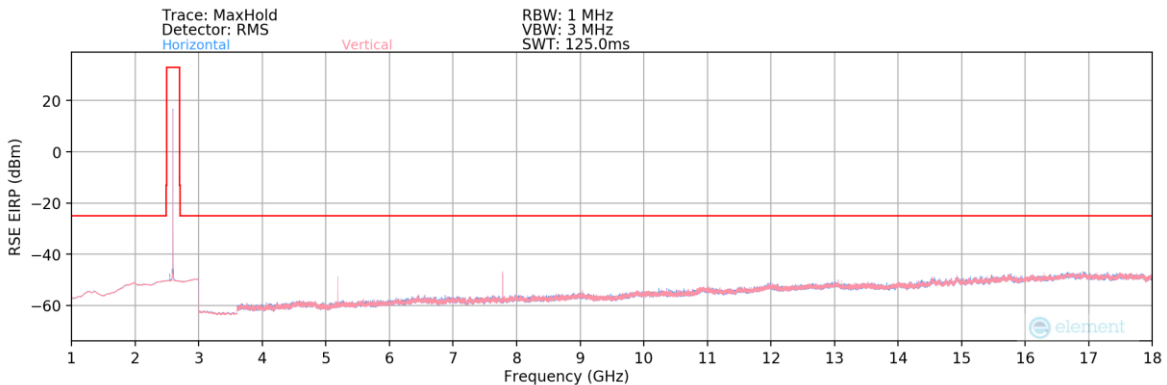


**Plot 7-222. Radiated Spurious Plot 30MHz-1GHz (NR n41 PC3 – Main2+Sub (UL-MIMO))**

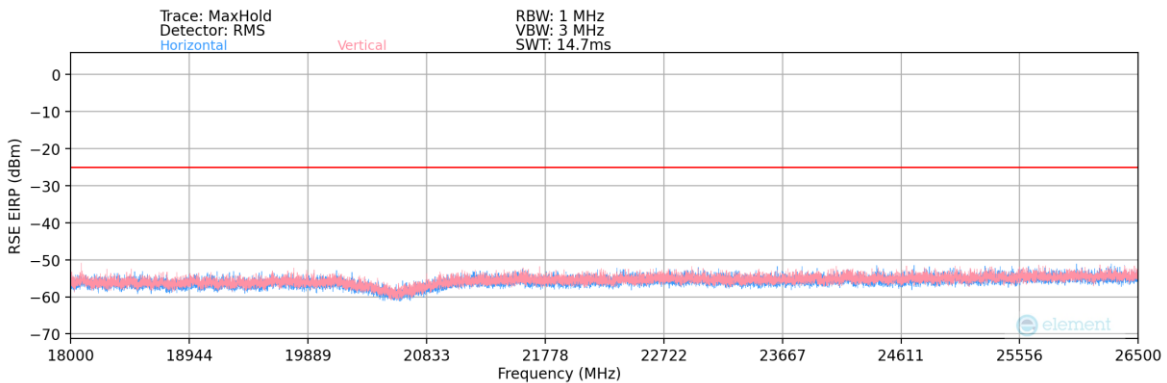
Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136
Mode:	UL-MIMO

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]
488.00	H	-	-	-86.27	25.81	46.54	-50.87	-25.00	-25.87

**Table 7-32. Radiated Spurious Data 30MHz-1GHz (NR Band n41 PC3 – Mid Channel – Main2+Sub (UL-MIMO))**



**Plot 7-223. Radiated Spurious Plot 1-18GHz (NR Band n41 PC3 – Mid Channel – Main2+Sub (UL-MIMO))**



**Plot 7-224. Radiated Spurious Plot 18-26.5GHz (NR Band n41 PC3 – Mid Channel – Main2+Sub (UL-MIMO))**

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
Test Report S/N: 1M2302060006-04-R1.PY7	Test Dates: 02/16/2023 - 04/06/2023	EUT Type: Portable Handset	Page 149 of 171

Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136
Mode:	UL-MIMO

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.02	H	291	27	-65.53	4.49	45.96	-49.30	-25.00	-24.30
7638.03	H	386	54	-63.51	7.51	51.00	-44.26	-25.00	-19.26
10184.04	H	-	-	-79.33	10.44	38.11	-57.15	-25.00	-32.15
12730.05	H	-	-	-79.83	13.71	40.88	-54.38	-25.00	-29.38
15276.06	H	-	-	-79.95	15.91	42.96	-52.29	-25.00	-27.29

Table 7-33. Radiated Spurious Data (NR Band n41 PC3 – Low Channel – Main2+Sub (UL-MIMO))

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136
Mode:	UL-MIMO

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5185.98	H	152	312	-64.37	4.98	47.61	-47.65	-25.00	-22.65
7778.97	H	299	356	-67.88	6.85	45.97	-49.29	-25.00	-24.29
10371.96	H	-	-	-79.54	10.55	38.01	-57.25	-25.00	-32.25
12964.95	H	-	-	-79.60	14.00	41.40	-53.85	-25.00	-28.85
15557.94	H	-	-	-79.61	15.96	43.35	-51.91	-25.00	-26.91

Table 7-34. Radiated Spurious Data (NR Band n41 PC3 – Mid Channel – Main2+Sub (UL-MIMO))

Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136
Mode:	UL-MIMO

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5280.00	H	249	8	-61.07	4.77	50.70	-44.56	-25.00	-19.56
7920.00	H	177	354	-71.99	7.95	42.96	-52.30	-25.00	-27.30
10560.00	H	-	-	-80.11	11.18	38.07	-57.19	-25.00	-32.19
13200.00	H	-	-	-79.59	13.76	41.17	-54.09	-25.00	-29.09
15840.00	H	-	-	-80.41	17.05	43.64	-51.61	-25.00	-26.61

Table 7-35. Radiated Spurious Data (NR Band n41 PC3 – High Channel – Main2+Sub (UL-MIMO))

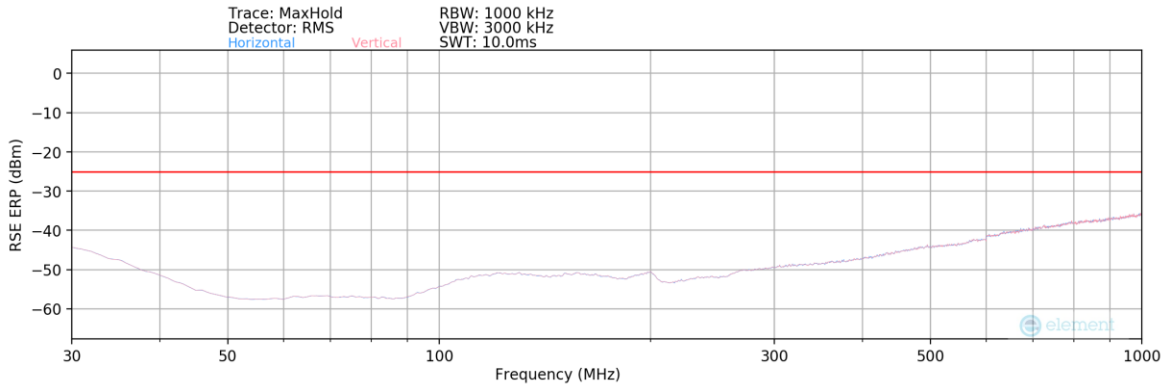
Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136
Mode:	UL-MIMO

Frequency [MHz]	Ant. Pol. [H/V]	Antenna Height [cm]	Turntable Azimuth [degree]	Analyzer Level [dBm]	AFCL [dB/m]	Field Strength [dBuV/m]	EIRP Spurious Emission Level [dBm]	Limit [dBm]	Margin [dB]
5092.02	V	368	275	-69.90	4.49	41.59	-53.67	-25.00	-28.67
7638.03	V	366	353	-76.37	7.51	38.14	-57.12	-25.00	-32.12
10184.04	V	-	-	-78.85	10.44	38.59	-56.67	-25.00	-31.67
12730.05	V	-	-	-79.74	13.71	40.97	-54.29	-25.00	-29.29
15276.06	V	-	-	-79.62	15.91	43.29	-51.96	-25.00	-26.96

Table 7-36. Radiated Spurious Data with WCP (NR Band n41 PC3 – Low Channel – Main2+Sub (UL-MIMO))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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# NR n41 PC3 – 3<sup>rd</sup>-LMHB+4<sup>th</sup>-MHB (SRS 2T4R)

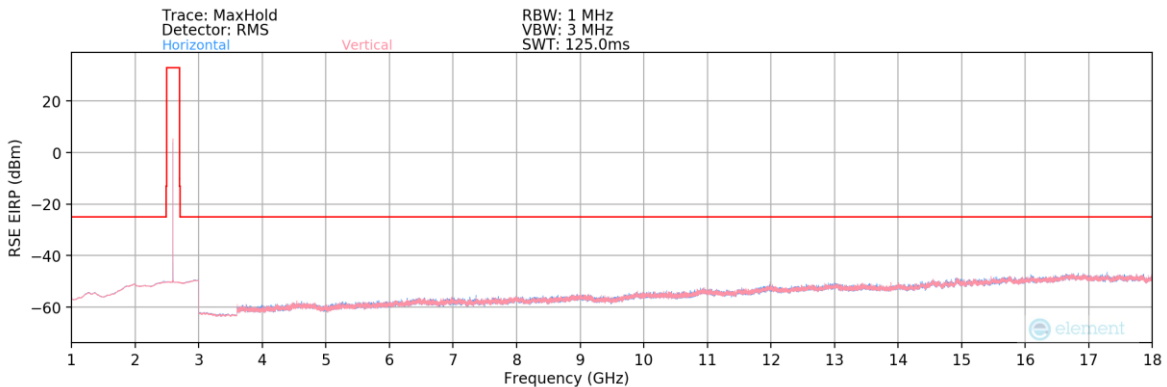


Plot 7-225. Radiated Spurious Plot 30MHz-1GHz (NR n41 PC3 – 3<sup>rd</sup>-LMHB+4<sup>th</sup>-MHB (SRS 2T4R))

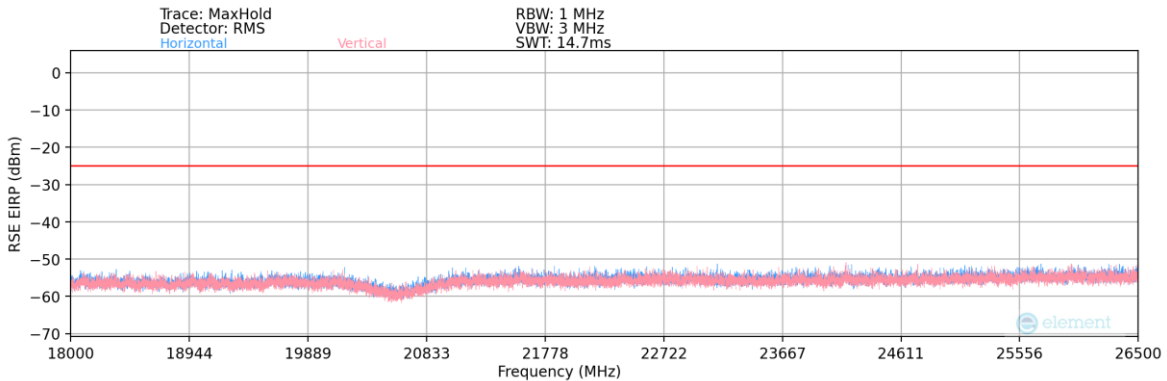
Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136
Mode:	2T4R

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]
808.00	H	-	-	-84.83	29.91	52.08	-45.33	-25.00	-20.33

Table 7-37. Radiated Spurious Data 30MHz-1GHz (NR Band n41 PC3 – Mid Channel – 3<sup>rd</sup>-LMHB+4<sup>th</sup>-MHB (SRS 2T4R))



Plot 7-226. Radiated Spurious Plot 1-18GHz (NR Band n41 PC3 – Mid Channel – 3<sup>rd</sup>-LMHB+4<sup>th</sup>-MHB (SRS 2T4R))



Plot 7-227. Radiated Spurious Plot 18-26.5GHz (NR Band n41 PC3 – Mid Channel – 3<sup>rd</sup>-LMHB+4<sup>th</sup>-MHB (SRS 2T4R))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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Bandwidth (MHz):	100
Frequency (MHz):	2546.01
RB / Offset:	1 / 136
Mode:	SRS 2T4R

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]
5092.02	H	143	333	-76.60	4.49	34.89	-60.37	-25.00	-35.37
7638.03	H	149	67	-71.39	7.51	43.12	-52.14	-25.00	-27.14
10184.04	H	-	-	-78.78	10.44	38.66	-56.60	-25.00	-31.60
12730.05	H	-	-	-80.01	13.71	40.70	-54.56	-25.00	-29.56
15276.06	H	-	-	-79.37	15.91	43.54	-51.71	-25.00	-26.71

Table 7-38. Radiated Spurious Data (NR Band n41 PC3 – Low Channel – 3rd-LMHB+4th-MHB (SRS 2T4R))

Bandwidth (MHz):	100
Frequency (MHz):	2592.99
RB / Offset:	1 / 136
Mode:	SRS 2T4R

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]
5185.98	H	-	-	-76.88	4.98	35.10	-60.16	-25.00	-35.16
7778.97	H	-	-	-77.26	6.85	36.59	-58.67	-25.00	-33.67
10371.96	H	-	-	-79.55	10.55	38.00	-57.26	-25.00	-32.26

Table 7-39. Radiated Spurious Data (NR Band n41 PC3 – Mid Channel – 3rd-LMHB+4th-MHB (SRS 2T4R))

Bandwidth (MHz):	100
Frequency (MHz):	2640.00
RB / Offset:	1 / 136
Mode:	SRS 2T4R

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]
5280.00	H	-	-	-76.90	4.77	34.87	-60.39	-25.00	-35.39
7920.00	H	-	-	-78.02	7.95	36.93	-58.33	-25.00	-33.33
10560.00	H	-	-	-80.17	11.18	38.01	-57.25	-25.00	-32.25

Table 7-40. Radiated Spurious Data (NR Band n41 PC3 – High Channel – 3rd-LMHB+4th-MHB (SRS 2T4R))

FCC ID: PY7-84558E	PART 27 MEASUREMENT REPORT		Approved by: Technical Manager
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