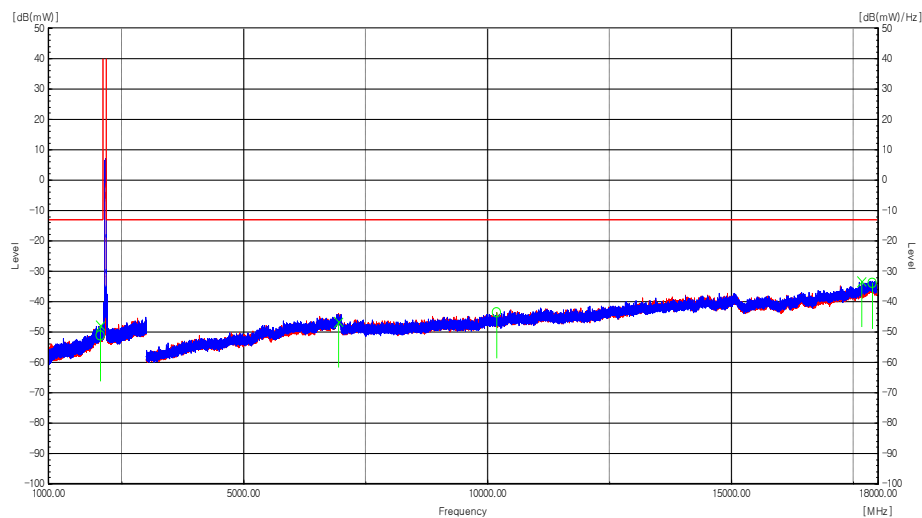




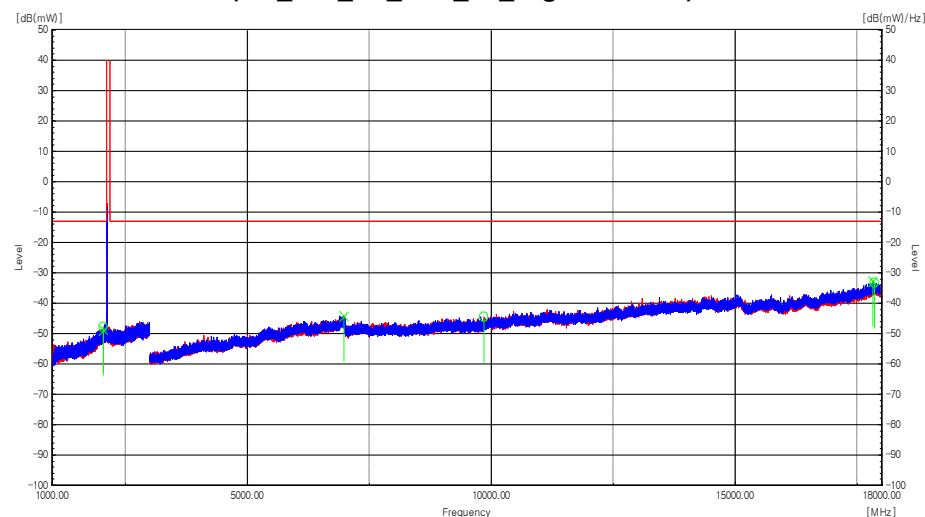
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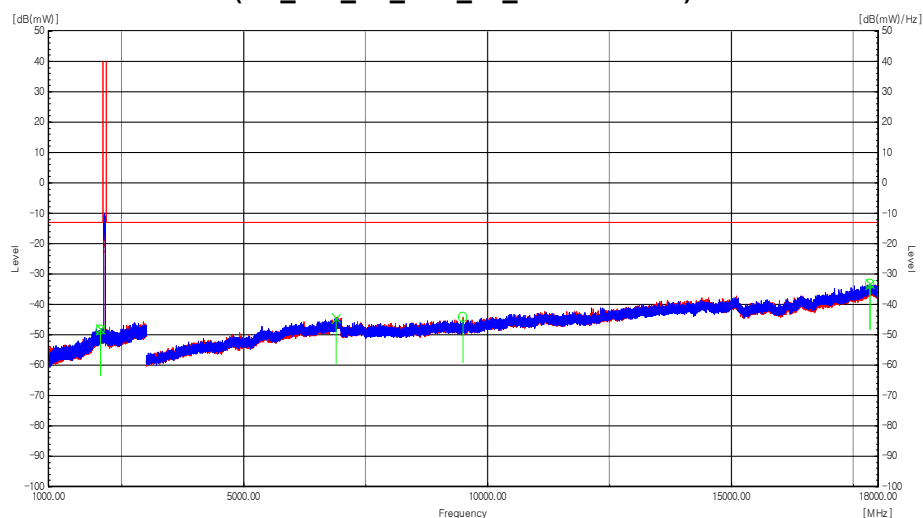
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**Plot 8-223. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n66_1C_30M_4T_High Channel)**



**Plot 8-224. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n66_1C_25M_2T_Low Channel)**



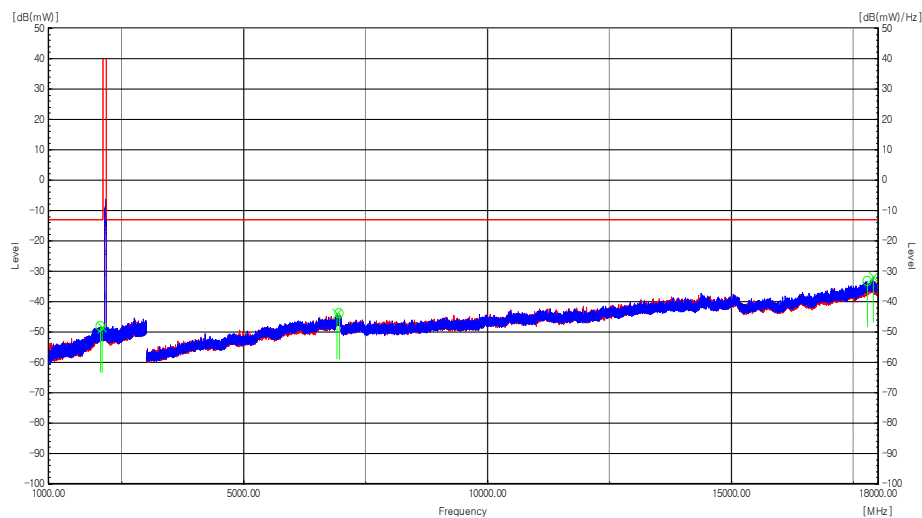
**Plot 8-225. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n66_1C_25M_2T_Mid Channel)**



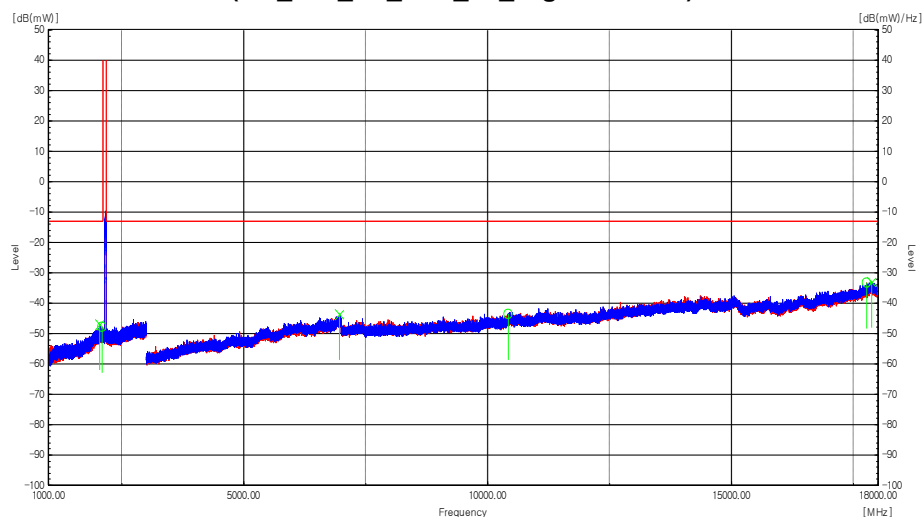
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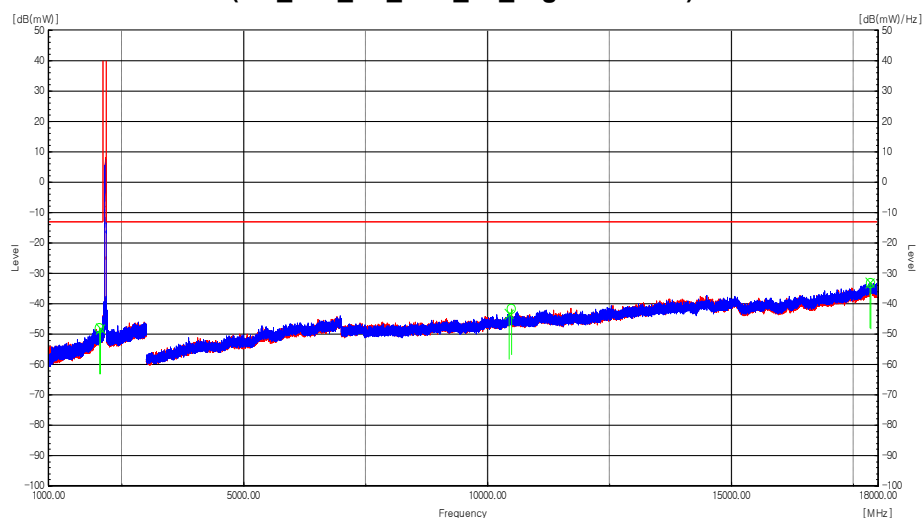
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**Plot 8-226. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n66_1C_25M_2T_High Channel)**



**Plot 8-227. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n66_1C_30M_2T_High Channel)**



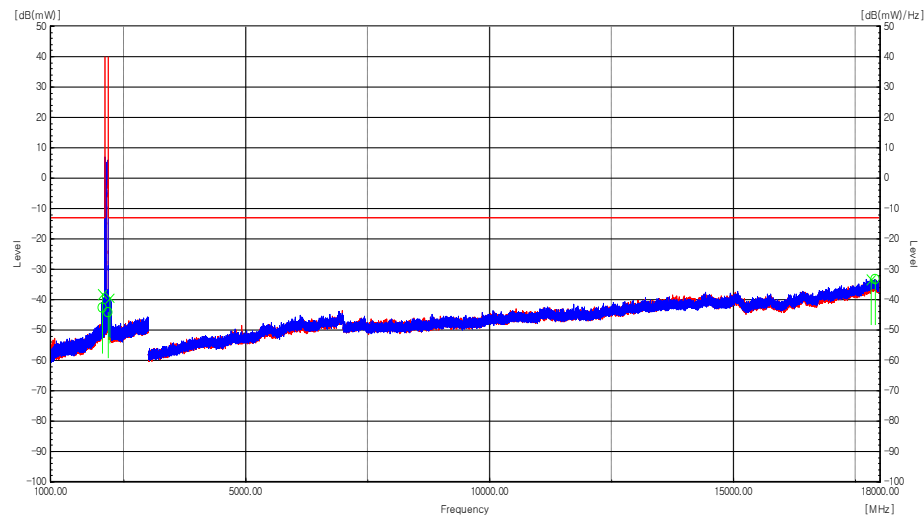
**Plot 8-228. Radiated spurious emission Plot_1 GHz to 18 GHz
(MSR_B/n66_2C_DSS 10M+NR 25M_4T_High Channel)**



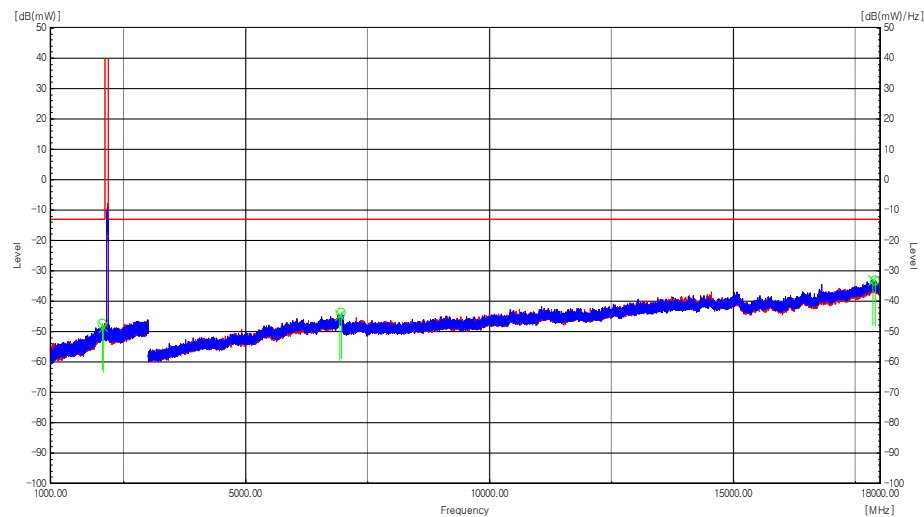
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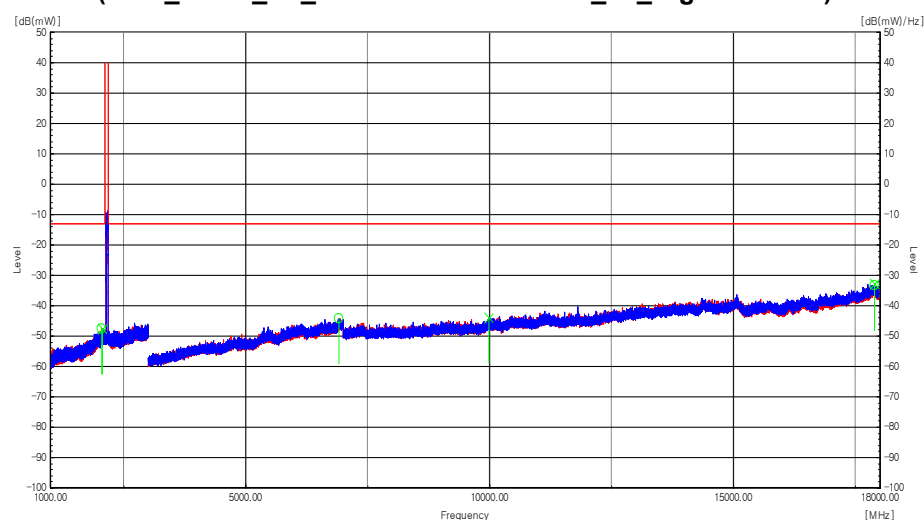
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**Plot 8-229. Radiated spurious emission Plot_1 GHz to 18 GHz
(MSR_B/n66_2C_DSS 10M+NR 25M_4T_Non-Contiguous)**



**Plot 8-230. Radiated spurious emission Plot_1 GHz to 18 GHz
(MSR_B/n66_2C_NR 25M+LTE 5M 25M_2T_High Channel)**



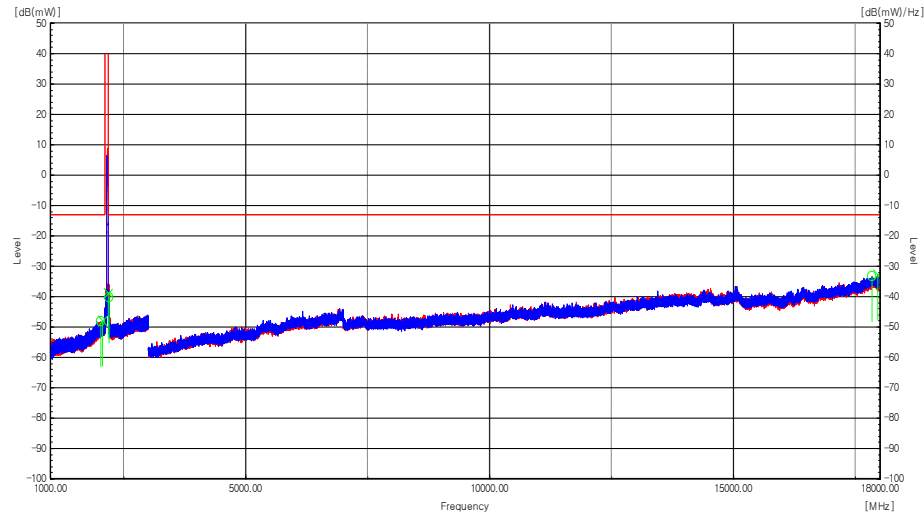
**Plot 8-231. Radiated spurious emission Plot_1 GHz to 18 GHz
(MSR_B/n66_2C_NR 25M+LTE 5M 25M_2T_Non-Contiguous)**



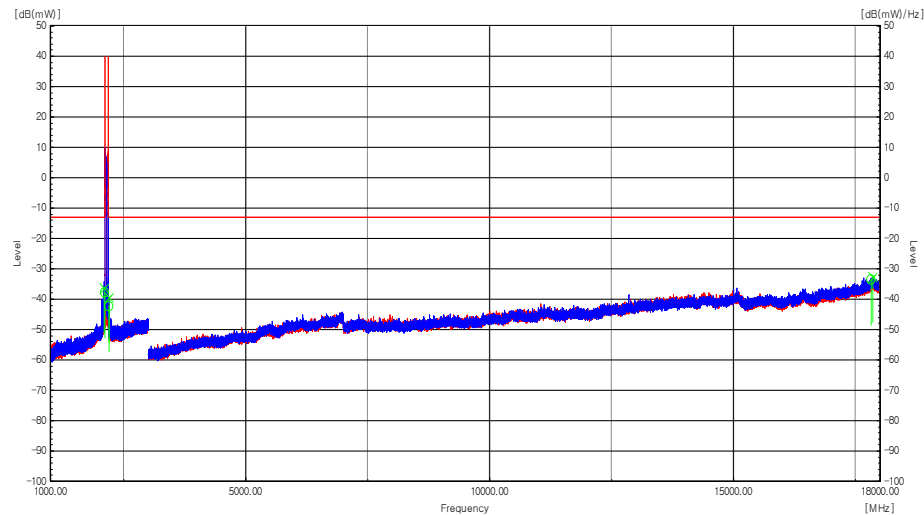
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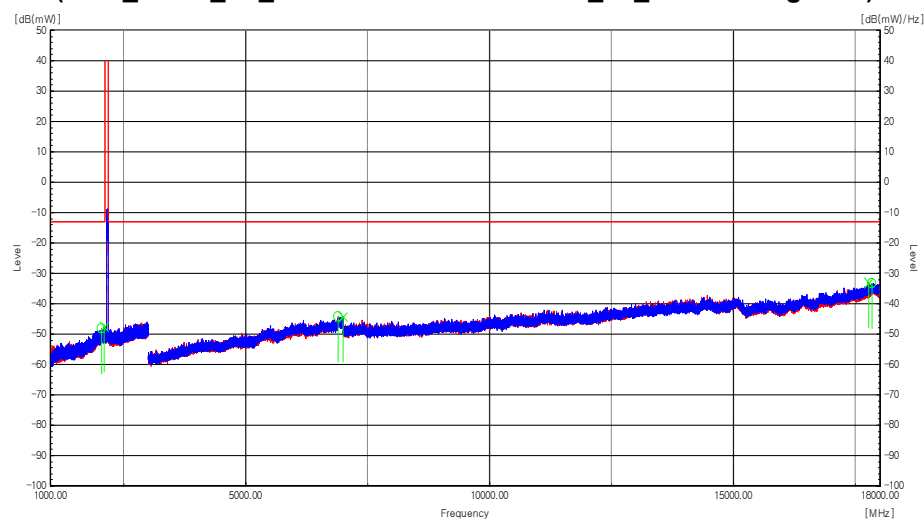
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**Plot 8-232. Radiated spurious emission Plot_1 GHz to 18 GHz
(MSR_B/n66_3C_NR 5M+NR 25M+LTE 5M_4T_High Channel)**



**Plot 8-233. Radiated spurious emission Plot_1 GHz to 18 GHz
(MSR_B/n66_3C_NR 5M+NR 25M+LTE 5M_4T_Non-Contiguous)**



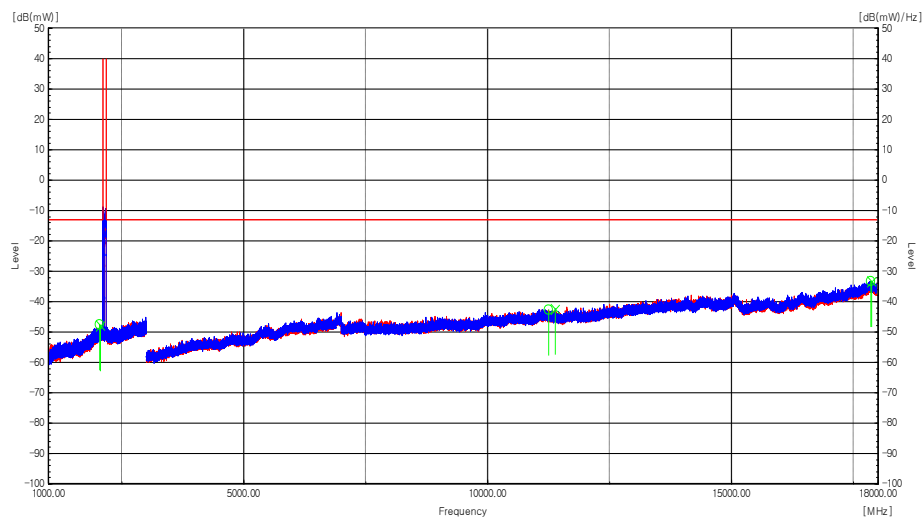
**Plot 8-234. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n66_3C_5M+5M+25M_2T_High Channel)**



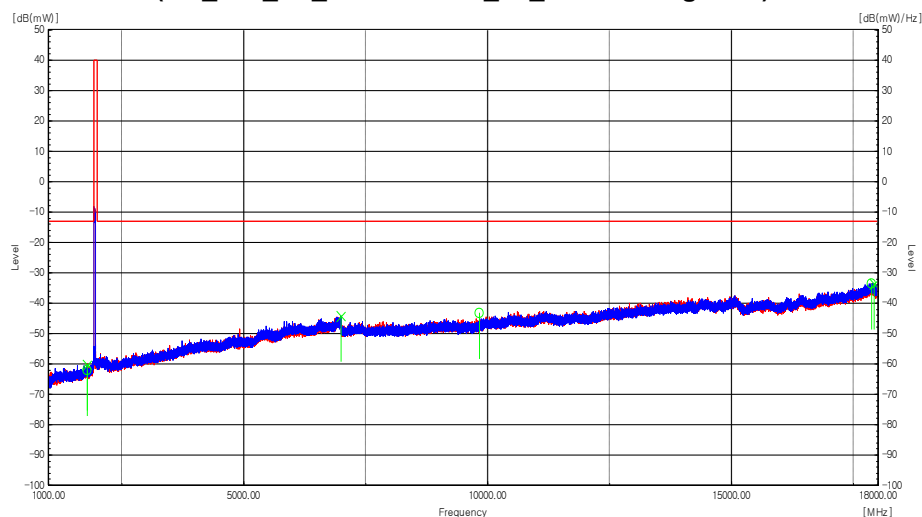
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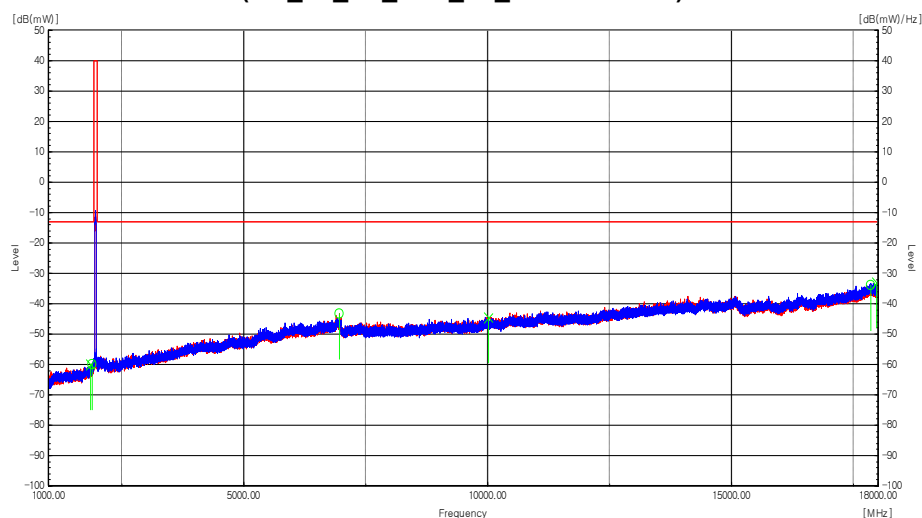
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**Plot 8-235. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n66_3C_5M+5M+25M_2T_Non-Contiguous)**



**Plot 8-236. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n2_1C_25M_2T_Low Channel)**

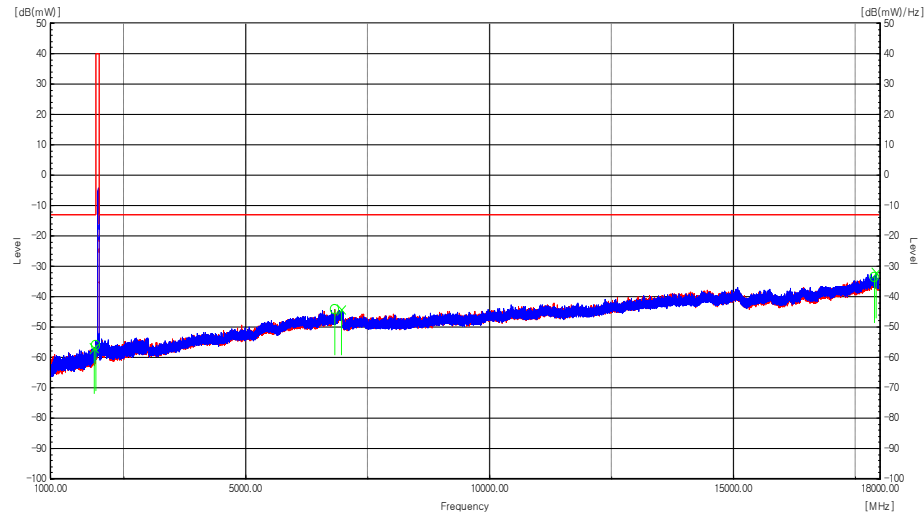


**Plot 8-237. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n2_1C_25M_2T_Mid Channel)**

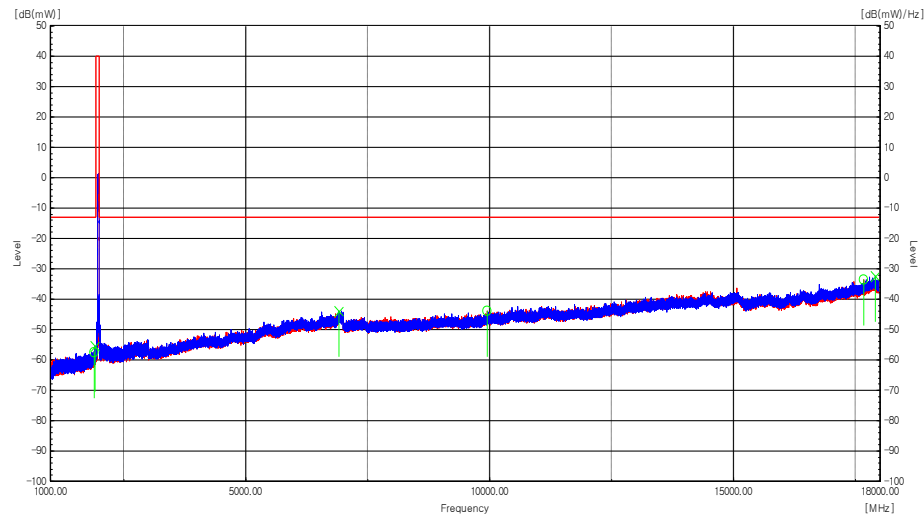
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**Plot 8-238. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n2_1C_25M_2T_High Channel)**



**Plot 8-239. Radiated spurious emission Plot_1 GHz to 18 GHz
(NR_n2_1C_30M_4T_High Channel)**

Worst Mode	Frequency [MHz]	Ant. Pol. [H/V]	Analyzer Level [dBm]	Path loss [dB]	RSE EIRP [dBm]	Limit [dBm/MHz]	Margin [dB]	Turntable azimuth [degree]
n66_1C_25M_2T_High	2064.42	H	-57.5	10.3	-47.2	-13.0	34.2	83.9
	2103.24	V	-58.4	10.8	-47.6	-13.0	34.6	81.6
	6913.58	V	-65.2	20.8	-44.4	-13.0	31.4	128.1
	6969.23	H	-65.9	20.7	-45.2	-13.0	32.2	355.3
	17784.39	H	-65.2	31.5	-33.7	-13.0	20.7	101.1
	17894.48	V	-63.1	32.7	-30.4	-13.0	17.4	351.9

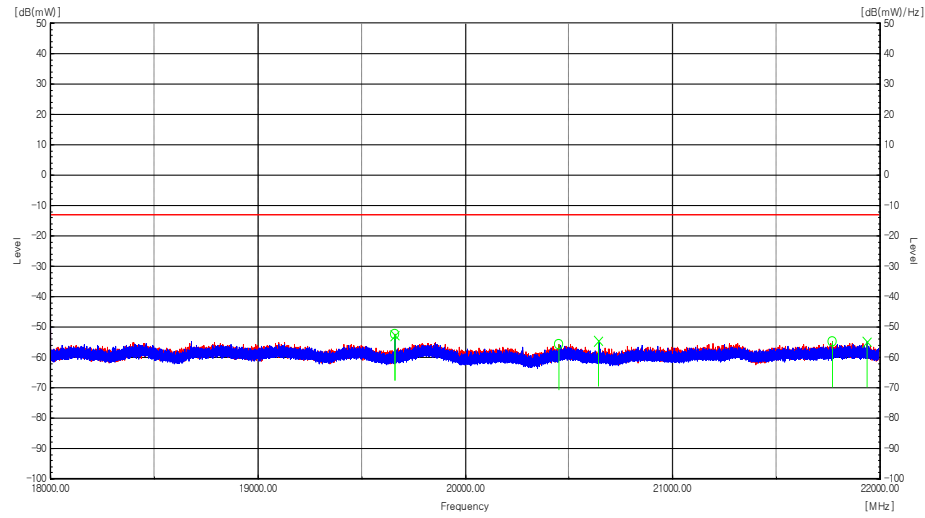
Table 8-61. Radiated spurious emission above 1GHz Worst mode Summary Data



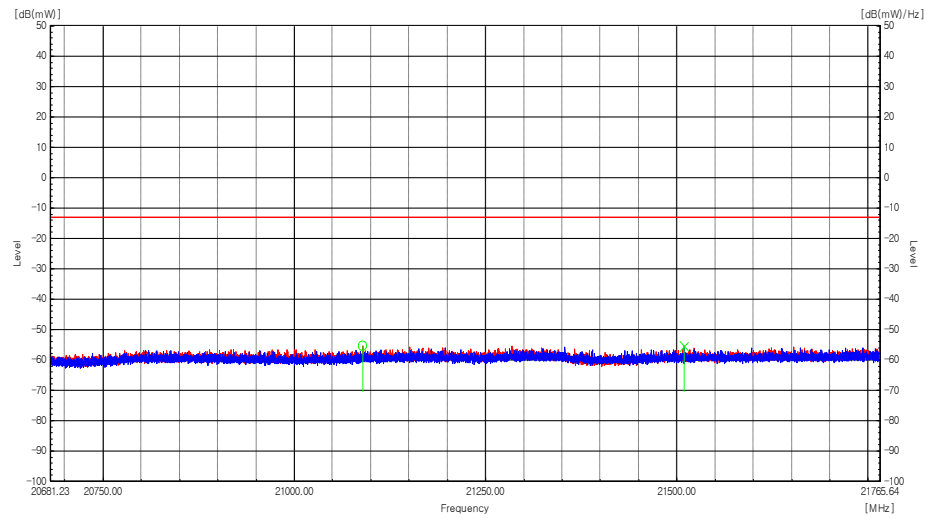
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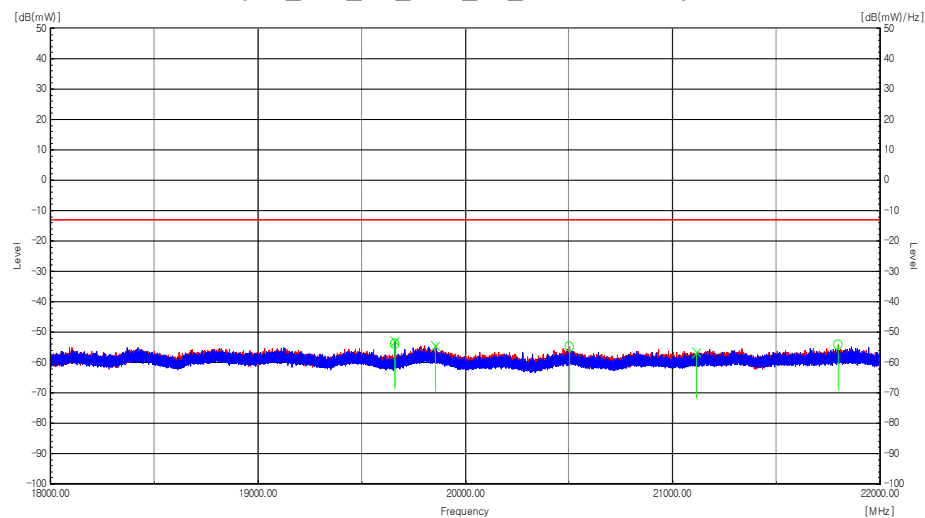
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**Plot 8-240. Radiated spurious emission Plot_18 GHz to 22 GHz
(NR_n66_1C_25M_4T_Low Channel)**



**Plot 8-241. Radiated spurious emission Plot_18 GHz to 22 GHz
(NR_n66_1C_25M_2T_Mid Channel)**



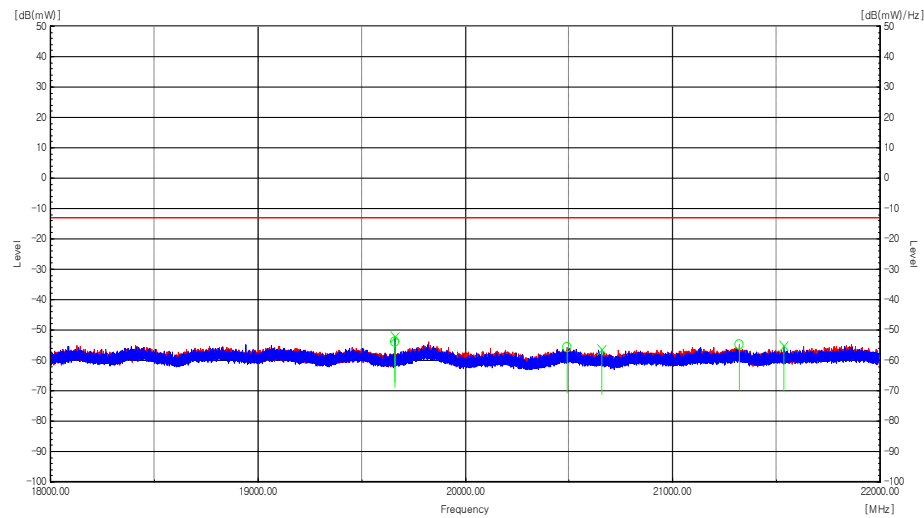
**Plot 8-242. Radiated spurious emission Plot_18 GHz to 22 GHz
(NR_n66_3C_5M+5M+25M_2T_High Channel)**



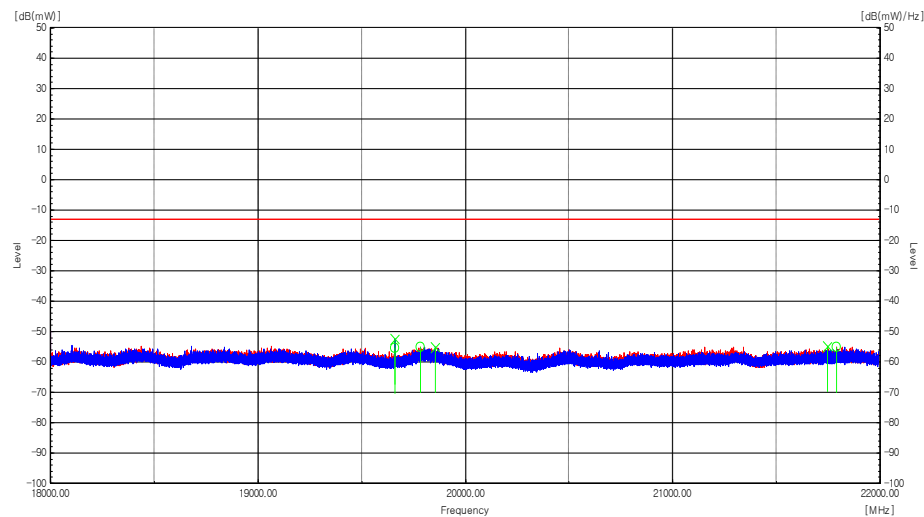
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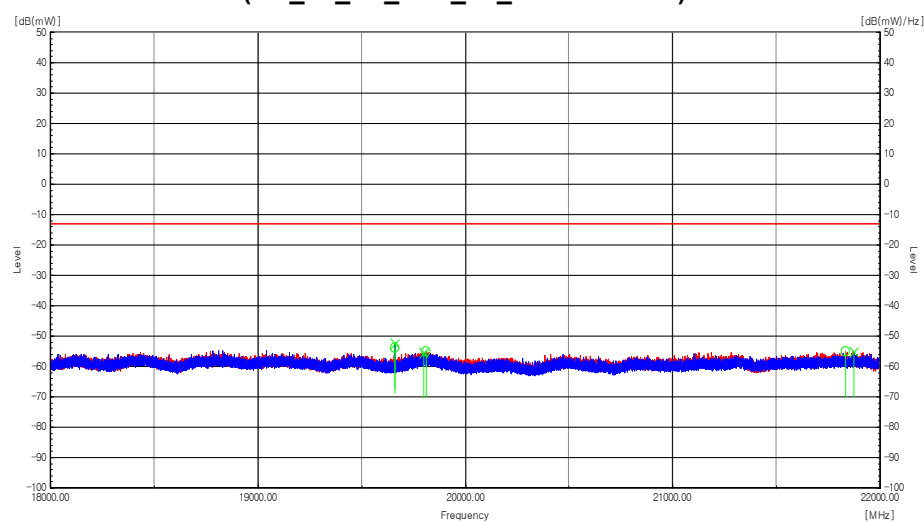
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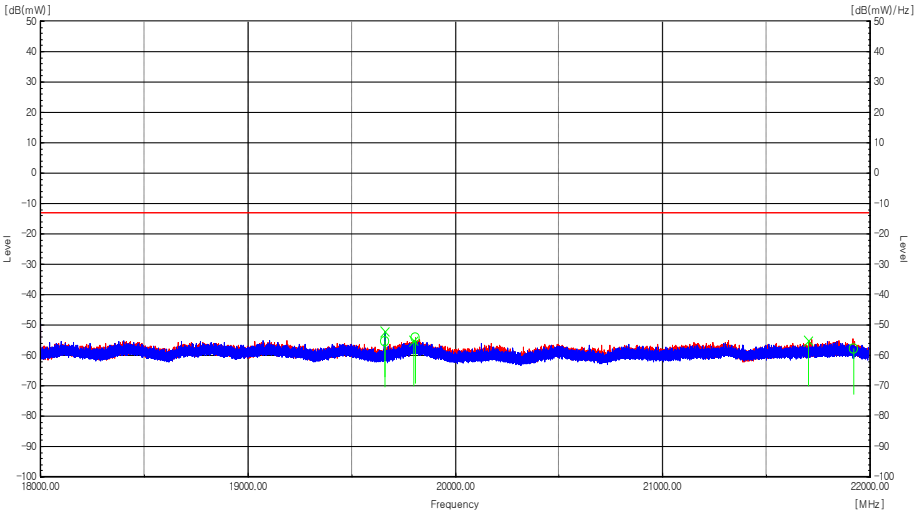
**Plot 8-243. Radiated spurious emission Plot_18 GHz to 22 GHz
(MSR_B/n66_3C_NR 5M+NR 25M+LTE 5M_4T_ Non-Contiguous)**



**Plot 8-244. Radiated spurious emission Plot_18 GHz to 22 GHz
(NR_n2_1C_25M_2T_Low Channel)**



**Plot 8-245. Radiated spurious emission Plot_18 GHz to 22 GHz
(NR_n2_1C_25M_2T_Mid Channel)**



**Plot 8-246. Radiated spurious emission Plot_18 GHz to 22 GHz
(NR_n2_1C_30M_4T_High Channel)**

Worst Mode	Frequency [MHz]	Ant. Pol. [H/V]	Analyzer Level [dBm]	Path loss [dB]	RSE EIRP [dBm]	Limit [dBm/MHz]	Margin [dB]	Turntable azimuth [degree]
n2_1C_25M_2T_Mid	2064.42	H	-57.5	10.3	-47.2	-13	34.2	83.9
	2103.24	V	-58.4	10.8	-47.6	-13	34.6	81.6
	6913.58	V	-65.2	20.8	-44.4	-13	31.4	128.1
	6969.234	H	-65.9	20.7	-45.2	-13	32.2	355.3
	17784.39	H	-65.2	31.5	-33.7	-13	20.7	101.1
	17894.48	V	-63.1	32.7	-30.4	-13	17.4	351.9

Table 8-62. Radiated spurious emission above 1GHz Worst mode Summary Data

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9.0 CONCLUSION

The data collected relate only to the item(s) tested and show that the **Samsung RRU (RFV01U-D1A) FCC ID: A3LRV01U-D1A** complies with all of the requirements of Part 24E and 27 of the FCC Rules.

10.0 APPENDIX. A

10.1 Conducted Average Output Power

Test Overview

A transmitter port of EUT is connected to the input of a signal analyzer. All measurements are performed as RMS average measurements while the EUT is operating at its maximum duty cycle, at maximum power, and at the appropriate frequencies.

Test Description

KDB 971168 D01 v03r01 – Section 5

KDB 662911 D01 v02r01 – Section E)1) In-Band Power Measurements

ANSI C63.26-2015 – Section 5.2.4.4.1

The measurement was made using a direct connection between the RF output of the EUT and the spectrum analyzer. The spectrum analyzer settings were as follows:

1. Conducted power measurements are performed using the signal analyzer's "channel power" measurement capability for signals with continuous operation.
2. RBW = 1 ~ 5% of the expected OBW
3. VBW $\geq 3 \times$ RBW
4. Span = 2 ~ 3 x OBW
5. No. of sweep points $\geq 2 \times$ span / RBW
6. Detector = RMS
7. Trigger Settings is set to "RF Power" for signals with non-continuous operation with the sweep times set to "auto". Refer test note 3 for details.
8. Trace mode = Trace-Averaging (RMS) set to average over 100 sweeps
9. The trace was allowed to stabilize

Test Setup

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

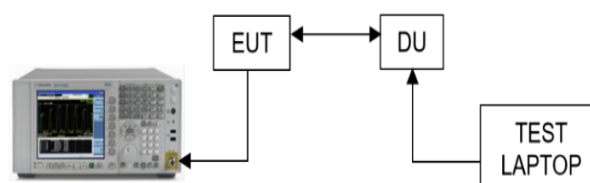


Figure 10-1. Test Instrument & Measurement Setup

Limit

N/A

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Note

1. Result for reference maximum output power of Grant of Authorization is under section 10.1.
2. MIMO Calculations are done considering output channel power for all ports and respective margins are calculated according to procedures in section 6.4 of ANSI C63.26 and section D of KDB 971168 D01 v03r01.
3. Consider the following factors for MIMO Power:
Conducted power for each port is measured in dBm.
Powers are summed up in linear using the measure-and-sum technique defined in KDB 971168 D01 v03r01- Section D.
Conducted power per port (dBm) is converted to a linear value (mW). A summation of linear powers for all ports gives us the total MIMO conducted power in milliWatts (mW).
4. Sample Calculation for NR_n66_1C_25M_4T_QPSK - Low Channel
Let us assume the following numbers:
 - a) Total MIMO Conducted Power as 263799.57 mW

Factors		Value	Unit
Summed MIMO Conducted Power (linear sum)		263799.57	mW
Summed MIMO Conducted Power (dBm)	$= 10 * \log (263799.57)$	54.21	dBm

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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	47.87	48.11	47.73	48.01
	1	48.16	48.10	47.76	48.08
	2	48.33	48.14	47.87	48.17
	3	48.39	48.18	47.94	48.23
Total Conducted Power (mW)		263799.57	260208.31	242461.13	259651.80
Total Conducted Power (dBm)		54.21	54.15	53.85	54.14
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	48.20	47.87	47.94	47.84
	1	48.10	47.95	47.91	47.91
	2	48.26	48.03	48.10	48.21
	3	48.33	48.22	48.26	48.36
Total Conducted Power (mW)		265700.16	253515.92	255585.55	257385.61
Total Conducted Power (dBm)		54.24	54.04	54.08	54.11
Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	47.73	47.81	47.99	48.10
	1	47.76	47.73	47.93	47.99
	2	48.08	48.17	48.21	48.28
	3	48.27	48.28	48.38	48.47
Total Conducted Power (mW)		250407.72	252599.59	260124.40	265120.94
Total Conducted Power (dBm)		53.99	54.02	54.15	54.23

Table 10-1. Conducted Average Output Power Table (NR_n66_1C_25M_4T)

Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	47.64	47.58	47.53	47.91
	1	47.60	47.59	47.52	47.94
	2	47.85	47.83	47.76	48.11
	3	48.00	48.11	47.93	48.27
Total Conducted Power (mW)		239669.86	240079.14	234908.06	255888.82
Total Conducted Power (dBm)		53.80	53.80	53.71	54.08
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	48.03	47.98	47.95	48.01
	1	48.07	48.01	47.98	48.06
	2	48.31	48.24	48.21	48.31
	3	48.44	48.37	48.37	48.46
Total Conducted Power (mW)		265241.44	261434.54	260107.81	265124.35
Total Conducted Power (dBm)		54.24	54.17	54.15	54.23
Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	47.30	47.33	47.40	47.34
	1	47.33	47.46	47.48	47.59
	2	47.63	47.66	47.77	47.78
	3	47.87	47.77	47.89	47.85
Total Conducted Power (mW)		226956.52	227979.68	232288.69	232544.53
Total Conducted Power (dBm)		53.56	53.58	53.66	53.67

Table 10-2. Conducted Average Output Power Table (NR_n66_1C_30M_4T)

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Channel	Port	NR_n66_2C_5M+25M		NR_n66_3C_5M+5M+25M	
		QPSK	16QAM	QPSK	16QAM
Low	0	47.39	47.34	47.41	47.59
	1	47.17	47.12	47.24	47.37
	2	47.71	47.67	47.84	47.90
	3	47.90	47.90	48.03	48.04
Total Conducted Power (mW)		227626.78	225861.46	232393.71	237326.48
Total Conducted Power (dBm)		53.57	53.54	53.66	53.75
Channel	Port	QPSK	16QAM	QPSK	16QAM
Mid	0	47.26	47.28	47.53	47.65
	1	47.20	47.25	47.45	47.50
	2	47.70	47.91	47.80	47.91
	3	47.94	48.02	47.99	48.05
Total Conducted Power (mW)		226805.97	231733.49	235420.93	240072.44
Total Conducted Power (dBm)		53.56	53.65	53.72	53.80
Channel	Port	QPSK	16QAM	QPSK	16QAM
High	0	47.31	47.21	47.70	47.56
	1	47.18	47.07	47.48	47.44
	2	47.77	47.55	47.87	47.81
	3	47.91	47.83	47.99	47.99
Total Conducted Power (mW)		227709.40	221093.74	239045.78	235824.48
Total Conducted Power (dBm)		53.57	53.45	53.78	53.73

Table 10-3. Conducted Average Output Power Table (NR_n66_Multi carrier_4T)

Channel	Port	MSR_B/n66_2C_NR 25M+LTE 5M		MSR_B/n66_3C_NR 5M+NR 25M+LTE		MSR_B/n66_2C_DSS 10M+NR 25M	
		QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Low	0	47.18	47.32	47.29	47.27	47.19	47.13
	1	47.16	47.19	47.09	47.05	46.79	46.78
	2	47.54	47.54	47.70	47.66	47.61	47.61
	3	47.88	47.92	47.99	48.02	48.02	47.91
Total Conducted Power (mW)		222369.88	225009.67	226582.83	225764.04	221176.59	218763.02
Total Conducted Power (dBm)		53.47	53.52	53.55	53.54	53.45	53.40
Channel	Port	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mid	0	47.39	47.39	47.28	47.24	46.97	47.13
	1	47.23	47.25	47.16	47.05	46.68	46.82
	2	47.66	47.67	47.67	47.64	47.55	47.52
	3	47.99	47.98	48.02	47.96	47.92	47.90
Total Conducted Power (mW)		228967.35	229200.99	227322.02	224259.13	215161.72	217878.77
Total Conducted Power (dBm)		53.60	53.60	53.57	53.51	53.33	53.38
Channel	Port	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
High	0	47.39	47.42	47.29	47.34	47.17	47.11
	1	47.24	47.24	47.14	47.12	46.80	46.68
	2	47.68	47.65	47.63	47.65	47.49	47.38
	3	48.00	47.98	48.02	48.03	47.85	47.78
Total Conducted Power (mW)		229503.59	229190.25	226670.19	227466.37	217040.97	212643.68
Total Conducted Power (dBm)		53.61	53.60	53.55	53.57	53.37	53.28

Table 10-4. Conducted Average Output Power Table (MSR_B/n66_Multi carrier_4T)



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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	49.10	48.99	49.06	49.13
	1	48.97	48.87	48.91	48.96
Total Conducted Power (mW)		160169.06	156340.48	158341.50	160551.06
Total Conducted Power (dBm)		52.05	51.94	52.00	52.06
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	49.25	49.24	49.14	49.24
	1	49.14	49.16	49.12	49.14
Total Conducted Power (mW)		166174.67	166359.81	163693.39	165981.15
Total Conducted Power (dBm)		52.21	52.21	52.14	52.20
Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	49.06	49.01	48.96	49.12
	1	49.01	49.06	48.98	49.07
Total Conducted Power (mW)		160153.78	160153.78	157772.44	162381.74
Total Conducted Power (dBm)		52.05	52.05	51.98	52.11

Table 10-5. Conducted Average Output Power Table (NR_n66_1C_25M_2T)

Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	0	48.67	48.92	48.98	48.85
	1	48.67	48.95	49.05	48.93
Total Conducted Power (mW)		147241.42	156506.57	159420.48	154898.93
Total Conducted Power (dBm)		51.68	51.95	52.03	51.90
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	0	49.07	48.99	49.02	49.03
	1	49.01	48.97	48.93	48.89
Total Conducted Power (mW)		160339.44	158136.14	157962.25	157429.61
Total Conducted Power (dBm)		52.05	51.99	51.99	51.97
Channel	Port	QPSK	16QAM	64QAM	256QAM
High	0	48.92	48.85	48.82	48.88
	1	48.93	48.90	48.85	48.88
Total Conducted Power (mW)		156145.79	154360.86	152944.05	154536.12
Total Conducted Power (dBm)		51.94	51.89	51.85	51.89

Table 10-6. Conducted Average Output Power Table (NR_n66_1C_30M_2T)



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Channel	Port	NR_n66_2C_5M+25M		NR_n66_3C_5M+5M+25M	
		QPSK	16QAM	QPSK	16QAM
Low	0	49.10	48.96	48.98	49.21
	1	49.05	49.00	48.80	49.04
Total Conducted Power (mW)		161635.66	158137.40	154925.62	163535.92
Total Conducted Power (dBm)		52.09	51.99	51.90	52.14
Channel	Port	QPSK	16QAM	QPSK	16QAM
Mid	0	48.98	48.95	49.10	49.03
	1	48.96	48.94	49.16	49.08
Total Conducted Power (mW)		157772.44	156866.53	163696.86	160893.02
Total Conducted Power (dBm)		51.98	51.96	52.14	52.07
Channel	Port	QPSK	16QAM	QPSK	16QAM
High	0	48.89	48.95	48.98	49.14
	1	48.88	48.90	48.86	48.96
Total Conducted Power (mW)		154714.24	156148.28	155980.91	160739.73
Total Conducted Power (dBm)		51.90	51.94	51.93	52.06

Table 10-7. Conducted Average Output Power Table (NR_n66_Multi carrier_2T)

Channel	Port	MSR_B/n66_2C_NR 25M+LTE 5M		MSR_B/n66_3C_NR 5M+NR 25M+LTE		MSR_B/n66_2C_DSS 10M+NR 25M	
		QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Low	0	49.12	49.10	49.05	49.00	48.94	49.01
	1	48.96	48.91	48.77	48.75	48.54	48.50
Total Conducted Power (mW)		160362.82	159086.71	155688.17	154422.24	149792.60	150410.51
Total Conducted Power (dBm)		52.05	52.02	51.92	51.89	51.75	51.77
Channel	Port	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
Mid	0	49.14	49.15	49.07	49.06	48.77	48.86
	1	49.03	49.01	48.87	48.80	48.77	48.70
Total Conducted Power (mW)		162018.58	161840.20	157813.85	156395.60	150671.11	151044.07
Total Conducted Power (dBm)		52.10	52.09	51.98	51.94	51.78	51.79
Channel	Port	QPSK	16QAM	QPSK	16QAM	QPSK	16QAM
High	0	48.96	49.04	48.96	48.97	48.78	48.85
	1	48.83	48.72	48.72	48.78	48.66	48.60
Total Conducted Power (mW)		155088.16	154641.00	153177.78	154395.23	148960.61	149179.74
Total Conducted Power (dBm)		51.91	51.89	51.85	51.89	51.73	51.74

Table 10-8. Conducted Average Output Power Table (MSR_B/n66_Multi carrier_2T)



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Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	4	46.77	46.91	46.58	46.65
	5	46.68	46.49	46.33	46.30
	6	46.34	46.42	46.22	46.31
	7	46.53	46.36	46.20	46.26
Total Conducted Power (mW)		182122.78	180760.87	172018.74	173919.20
Total Conducted Power (dBm)		52.60	52.57	52.36	52.40
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	4	46.55	46.48	46.52	46.49
	5	46.12	46.06	46.04	46.04
	6	46.17	46.16	46.13	46.11
	7	45.97	45.95	45.94	45.92
Total Conducted Power (mW)		167048.29	165487.42	165338.52	164660.73
Total Conducted Power (dBm)		52.23	52.19	52.18	52.17
Channel	Port	QPSK	16QAM	64QAM	256QAM
High	4	46.48	46.52	46.47	46.49
	5	45.98	46.01	46.01	46.03
	6	46.04	46.05	46.06	46.07
	7	45.89	45.86	45.91	45.89
Total Conducted Power (mW)		163085.05	163596.57	163622.09	163924.92
Total Conducted Power (dBm)		52.12	52.14	52.14	52.15

Table 10-9. Conducted Average Output Power Table (NR_n2_1C_25M_4T)

Channel	Port	QPSK	16QAM	64QAM	256QAM
Low	4	47.52	47.56	47.66	47.74
	5	47.99	47.91	47.88	47.88
Total Conducted Power (mW)		119444.32	118818.07	119720.71	120805.42
Total Conducted Power (dBm)		50.77	50.75	50.78	50.82
Channel	Port	QPSK	16QAM	64QAM	256QAM
Mid	4	47.94	47.75	47.69	47.90
	5	47.80	47.81	47.80	47.81
Total Conducted Power (mW)		122485.99	119961.08	119004.89	122054.36
Total Conducted Power (dBm)		50.88	50.79	50.76	50.87
Channel	Port	QPSK	16QAM	64QAM	256QAM
High	4	47.81	47.77	47.76	47.89
	5	47.88	47.79	47.82	47.81
Total Conducted Power (mW)		121771.06	119958.53	120237.62	121912.55
Total Conducted Power (dBm)		50.86	50.79	50.80	50.86

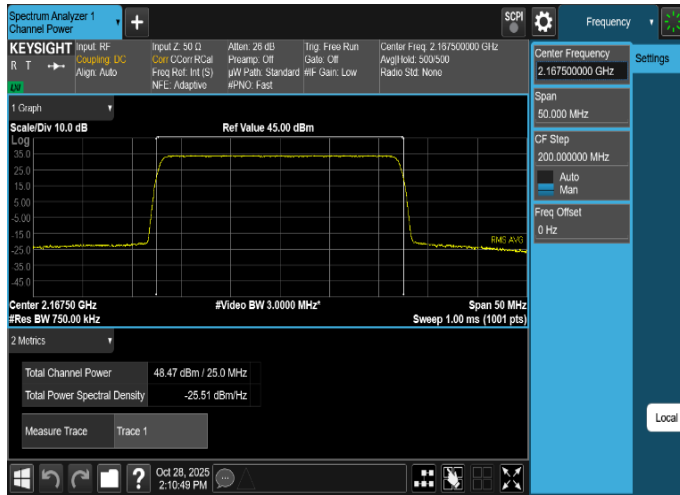
Table 10-10. Conducted Average Output Power Table (NR_n2_1C_25M_2T)



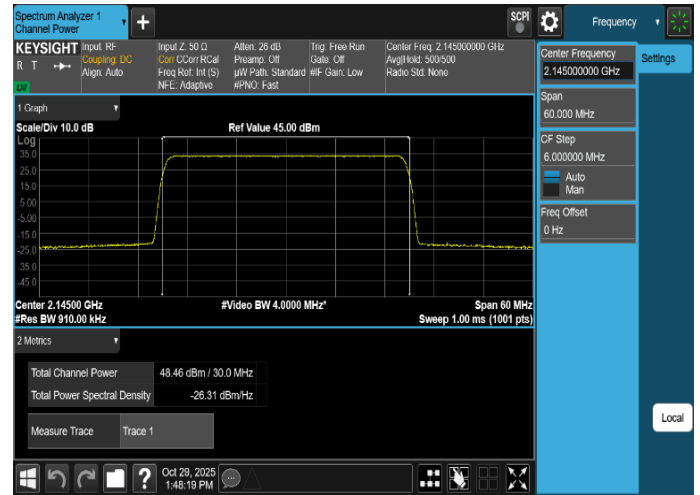
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Plot 10-1. Conducted Average Output Power Plot
(NR_n66_1C_25M_4T_256QAM - High Channel, Port 3)



Plot 10-2. Conducted Average Output Power Plot
(NR_n66_1C_30M_4T_256QAM - Mid Channel, Port 3)

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