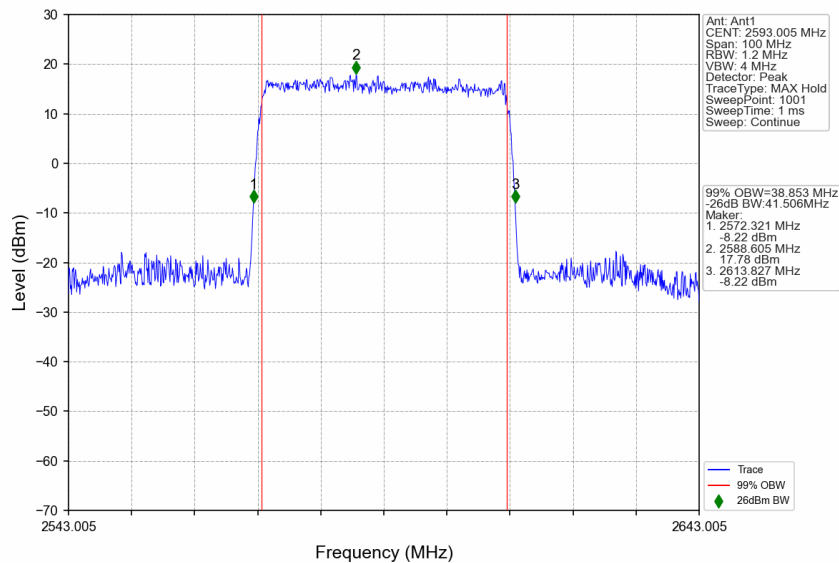


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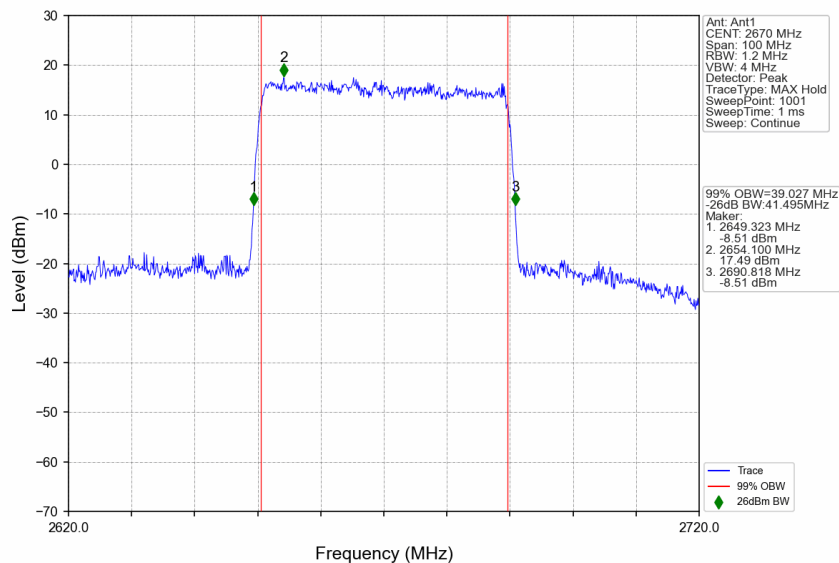
Rev.: 01

Page: 225 of 1245

n41_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM 2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 64 QAM 2670MHz_Outer_Full



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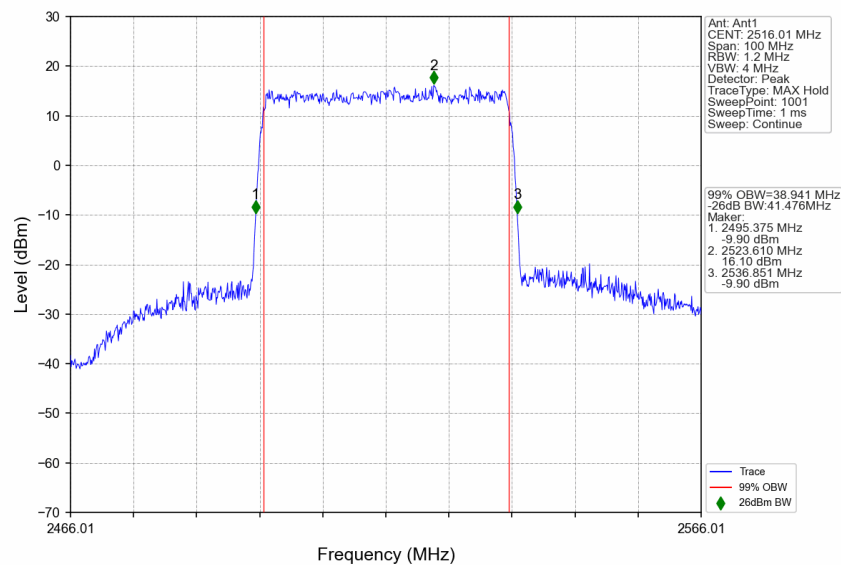
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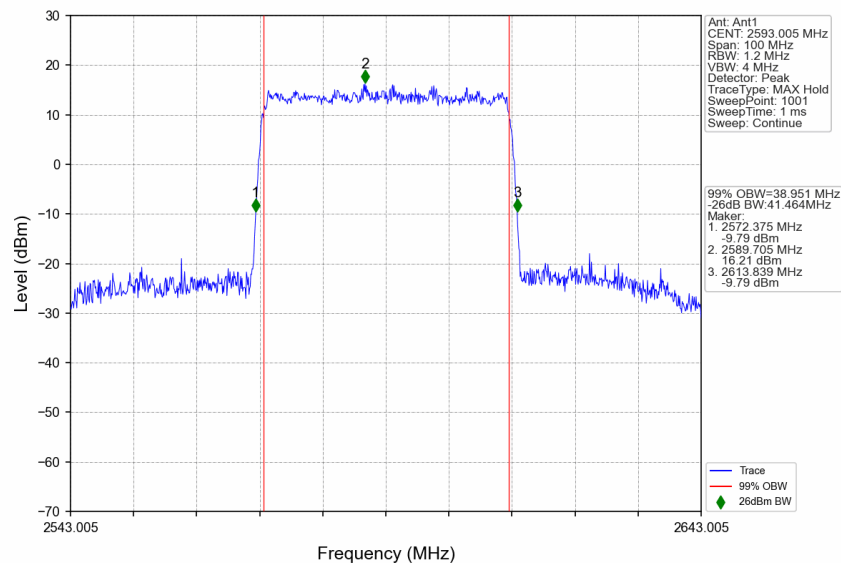
Rev.: 01

Page: 226 of 1245

n41_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_2516.01MHz_Outer_Full



n41_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM 256 QAM_2593.005MHz_Outer_Full



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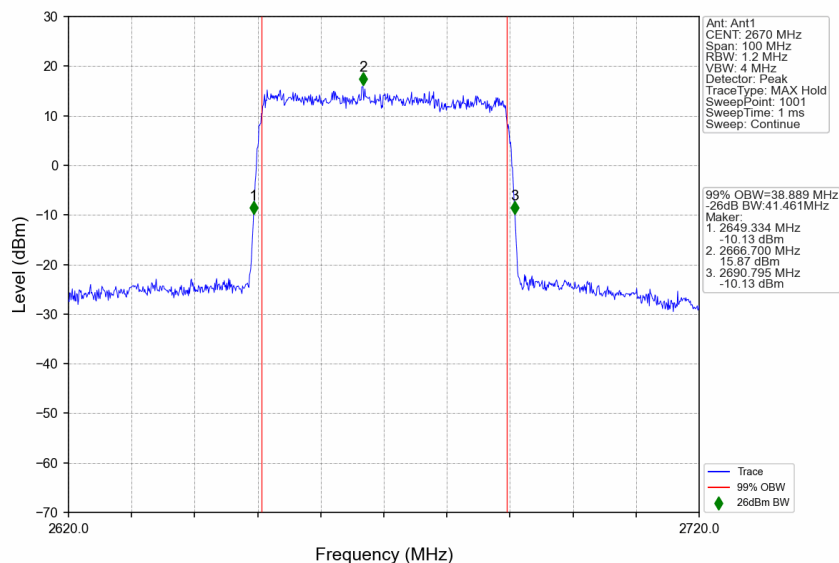
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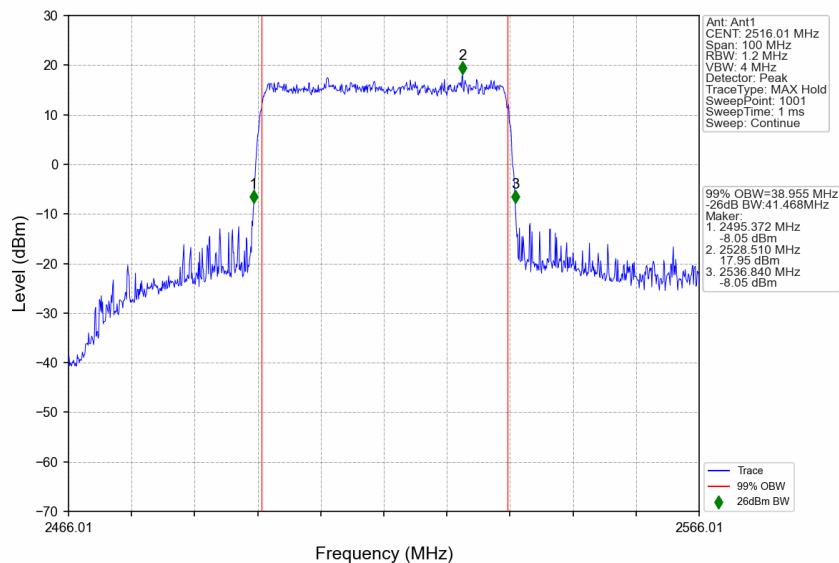
Rev.: 01

Page: 227 of 1245

n41_15kHz_SISO_NTNV_40MHz_DFT-s-OFDM_256 QAM_2670MHz_Outer_Full



n41_15kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2516.01MHz_Outer_Full



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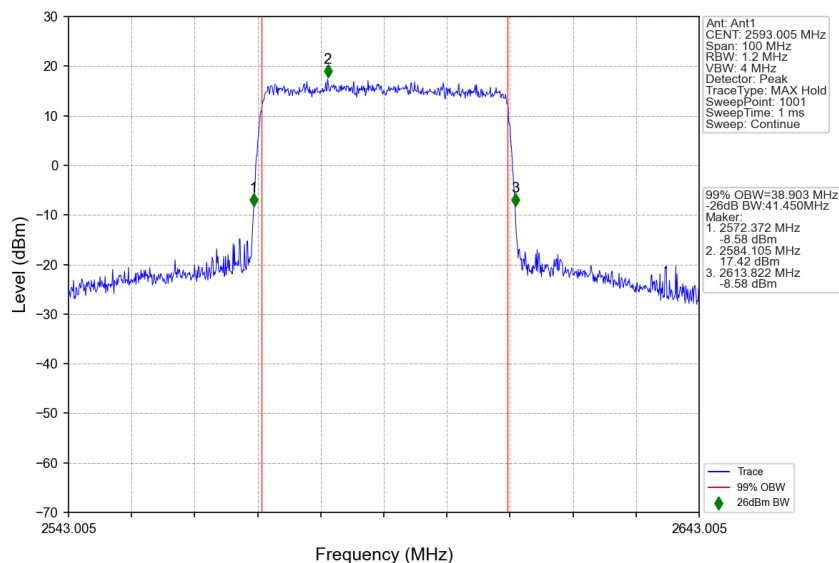
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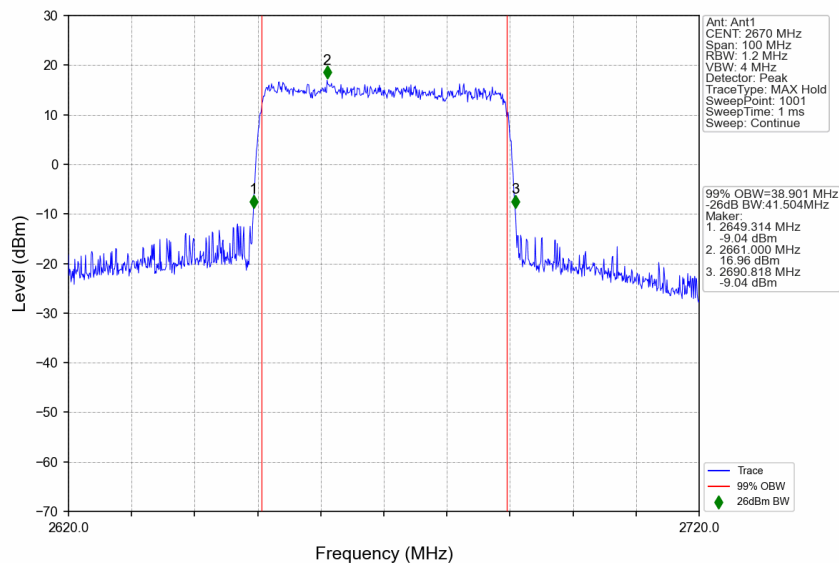
Rev.: 01

Page: 228 of 1245

n41_15kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_40MHz_CP-OFDM QPSK_2670MHz_Outer_Full



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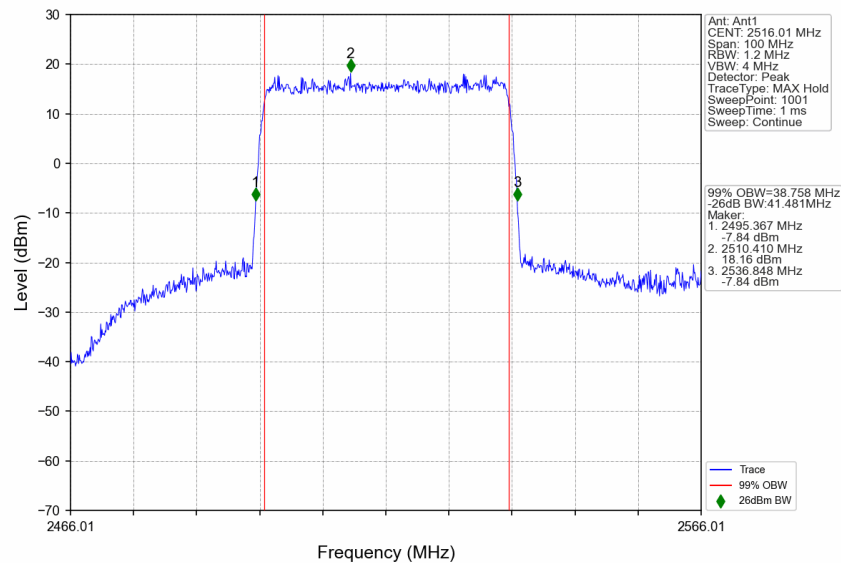
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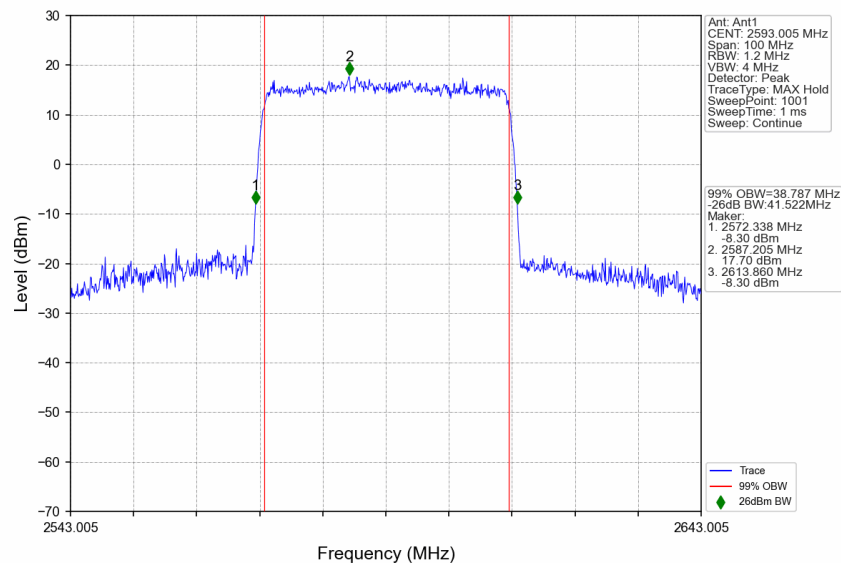
Rev.: 01

Page: 229 of 1245

n41_15kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_2516.01MHz_Outer_Full



n41_15kHz_SISO_NTNV_40MHz_CP-OFDM_16_QAM_2593.005MHz_Outer_Full



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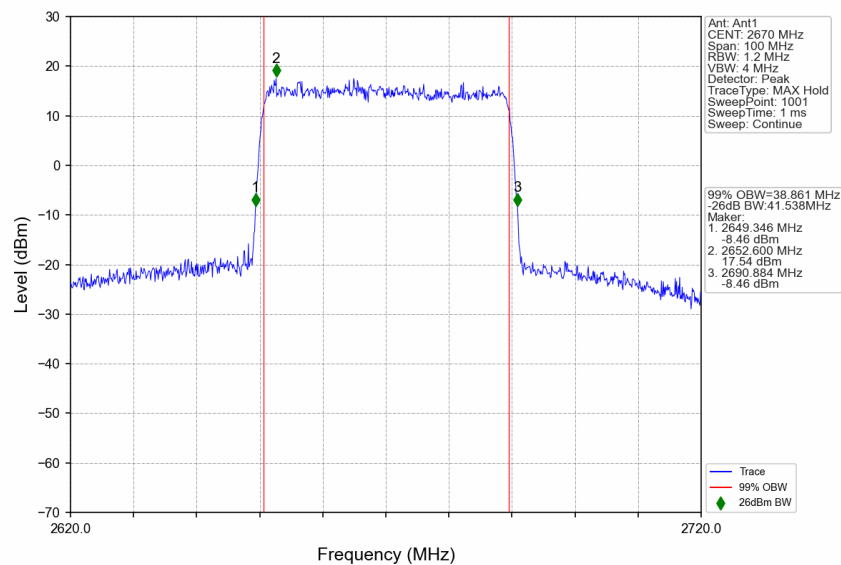
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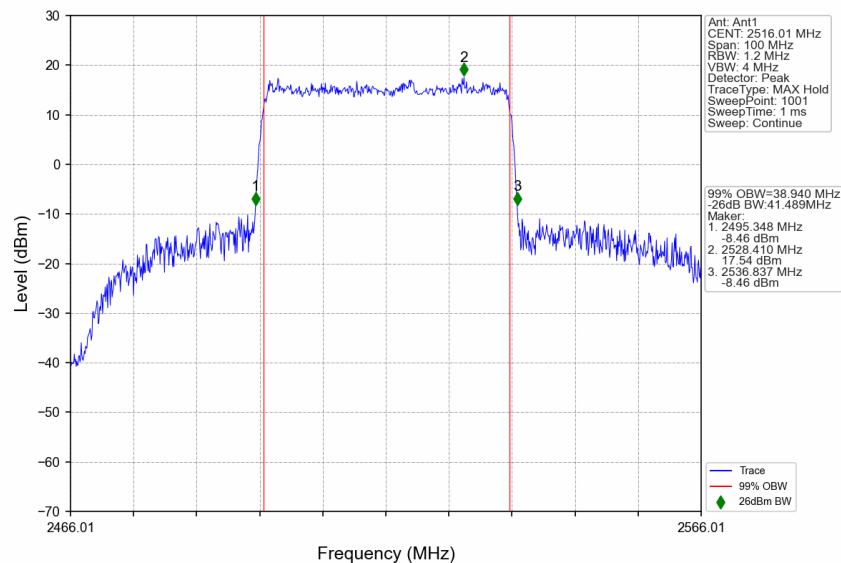
Rev.: 01

Page: 230 of 1245

n41_15kHz_SISO_NTNV_40MHz_CP-OFDM 16 QAM_2670MHz_Outer_Full



n41_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM_2516.01MHz_Outer_Full



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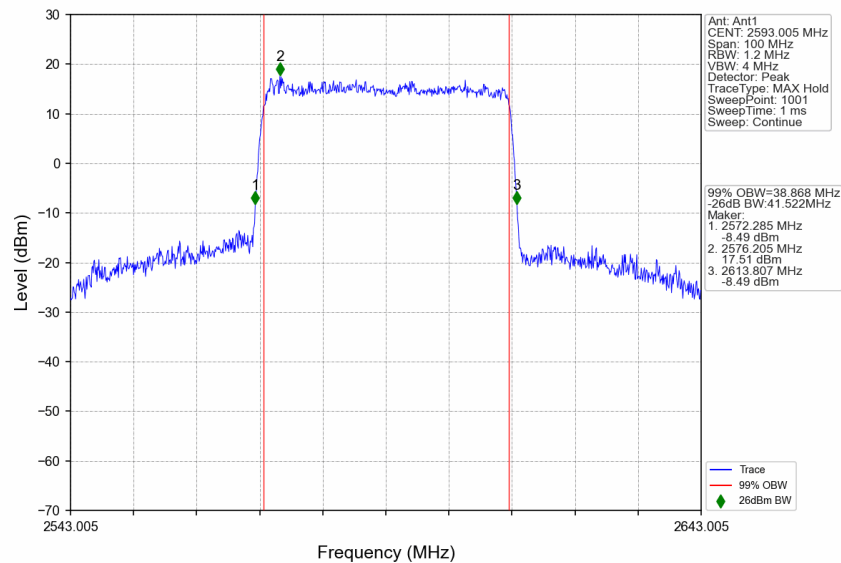
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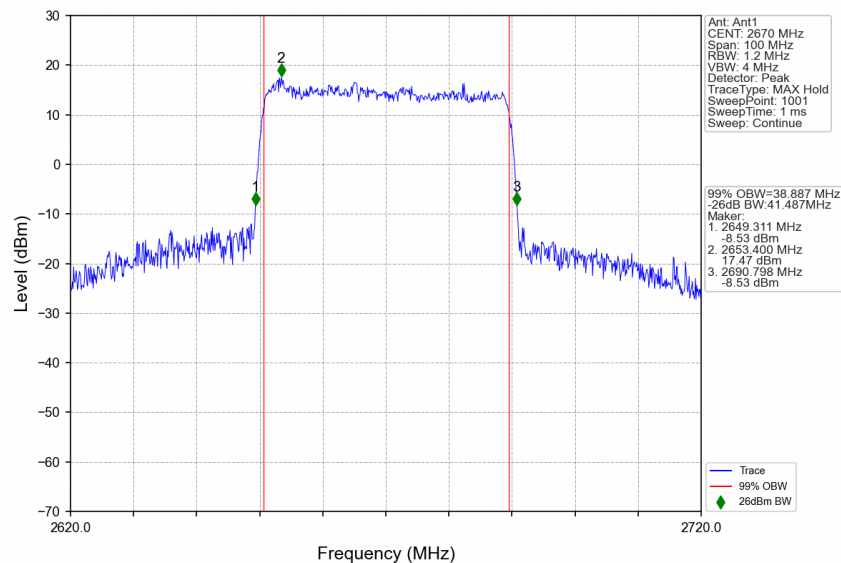
Rev.: 01

Page: 231 of 1245

n41_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM 2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_40MHz_CP-OFDM 64 QAM 2670MHz_Outer_Full



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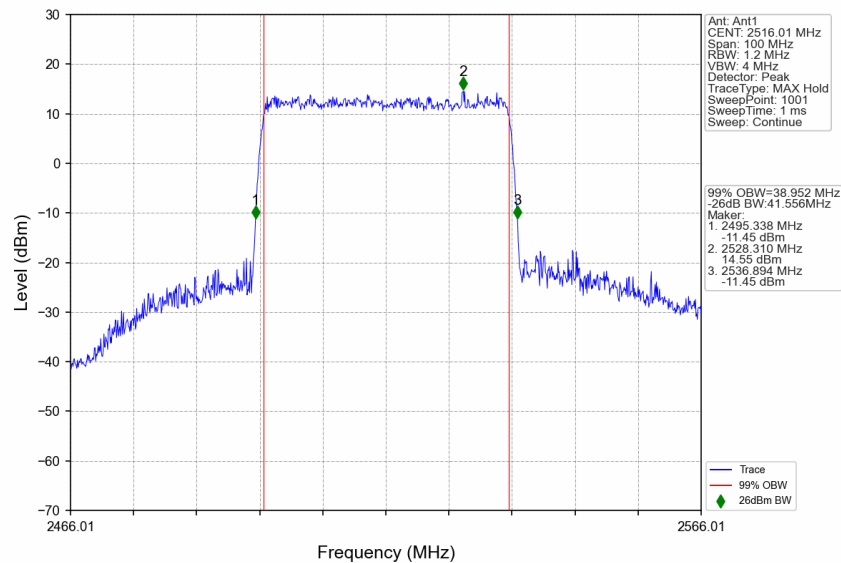
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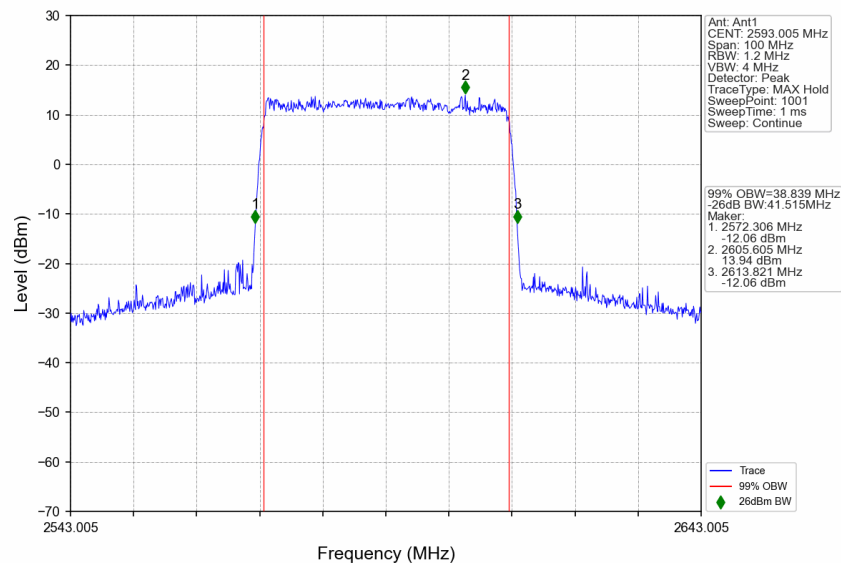
Rev.: 01

Page: 232 of 1245

n41_15kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2516.01MHz_Outer_Full



n41_15kHz_SISO_NTNV_40MHz_CP-OFDM 256 QAM_2593.005MHz_Outer_Full



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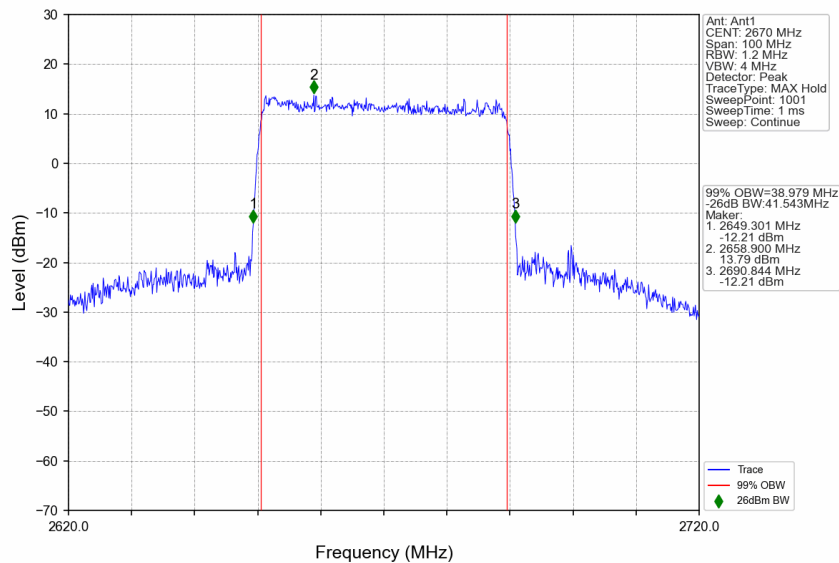
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Report No.: SEWM2311000456RG02

Rev.: 01

Page: 233 of 1245

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4.7 15k_SISO_50MHz_NTNV

4.7.1 Test Result

5G NR n41 SCS=15kHz SISO 50MHz NTN						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2521.005	Outer Full	48.59	51.92	/	Pass
	2593.005	Outer Full	48.59	51.94	/	Pass
	2664.99	Outer Full	48.73	51.92	/	Pass
DFT-s-OFDM QPSK	2521.005	Outer Full	48.67	51.93	/	Pass
	2593.005	Outer Full	48.57	51.89	/	Pass
	2664.99	Outer Full	48.67	51.91	/	Pass
DFT-s-OFDM 16 QAM	2521.005	Outer Full	48.54	51.75	/	Pass
	2593.005	Outer Full	48.51	51.71	/	Pass
	2664.99	Outer Full	48.54	51.81	/	Pass
DFT-s-OFDM 64 QAM	2521.005	Outer Full	48.67	51.88	/	Pass
	2593.005	Outer Full	48.59	51.84	/	Pass
	2664.99	Outer Full	48.72	51.80	/	Pass
DFT-s-OFDM 256 QAM	2521.005	Outer Full	48.56	51.75	/	Pass
	2593.005	Outer Full	48.52	51.84	/	Pass
	2664.99	Outer Full	48.70	51.94	/	Pass
CP-OFDM QPSK	2521.005	Outer Full	48.62	51.85	/	Pass
	2593.005	Outer Full	48.46	51.80	/	Pass
	2664.99	Outer Full	48.72	51.81	/	Pass
CP-OFDM 16 QAM	2521.005	Outer Full	48.58	51.85	/	Pass
	2593.005	Outer Full	48.50	51.90	/	Pass
	2664.99	Outer Full	48.61	51.89	/	Pass
CP-OFDM 64 QAM	2521.005	Outer Full	48.52	51.79	/	Pass
	2593.005	Outer Full	48.58	51.82	/	Pass
	2664.99	Outer Full	48.64	51.87	/	Pass
CP-OFDM 256 QAM	2521.005	Outer Full	48.56	51.93	/	Pass
	2593.005	Outer Full	48.52	51.92	/	Pass
	2664.99	Outer Full	48.60	51.95	/	Pass



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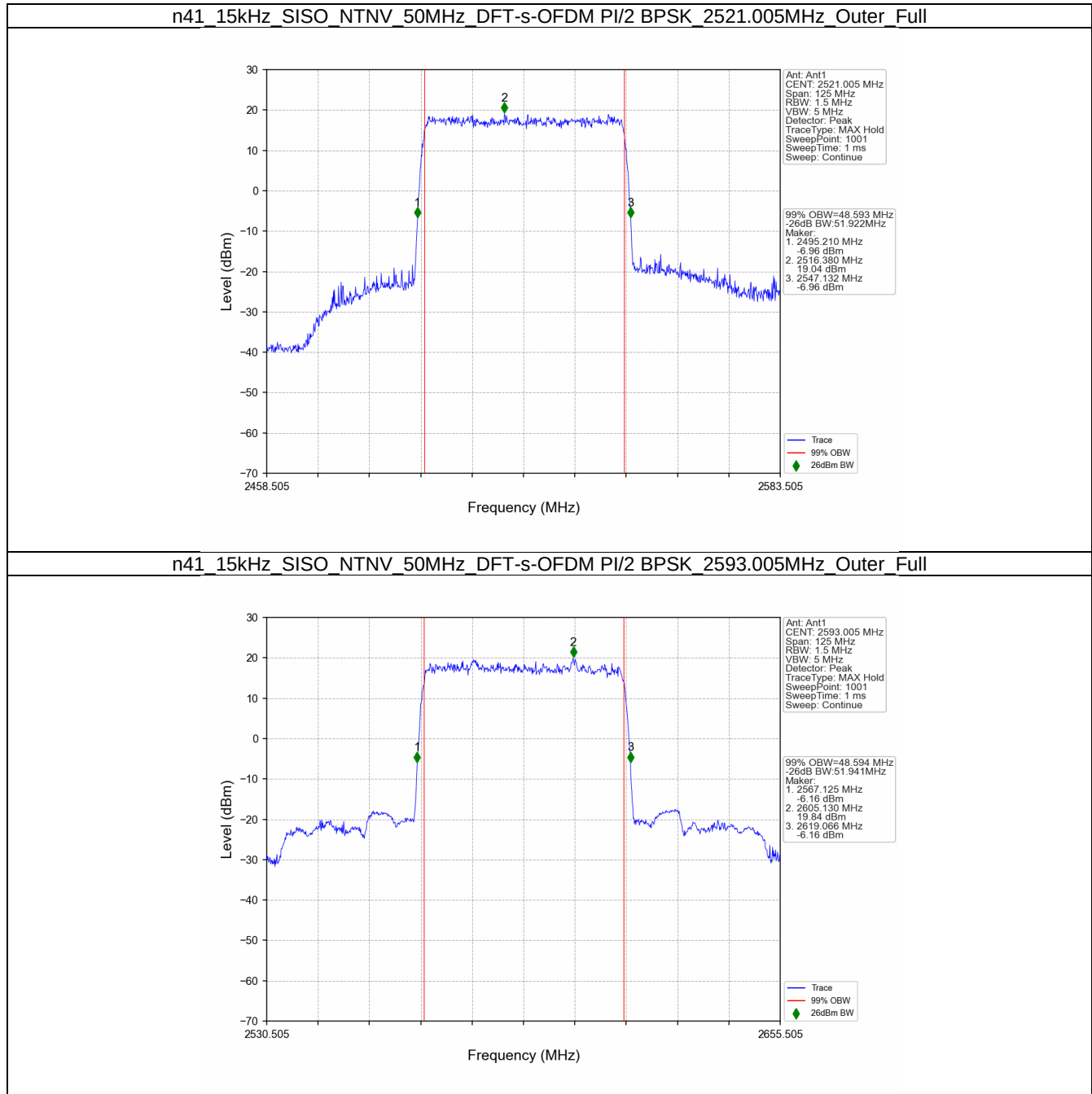
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Report No.: SEWM2311000456RG02

Rev.: 01

Page: 235 of 1245

4.7.2 Test Graph



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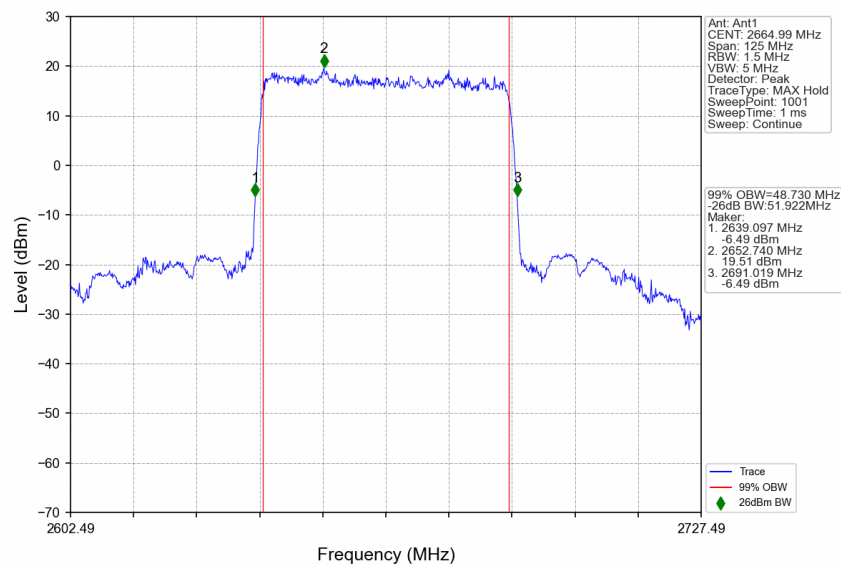
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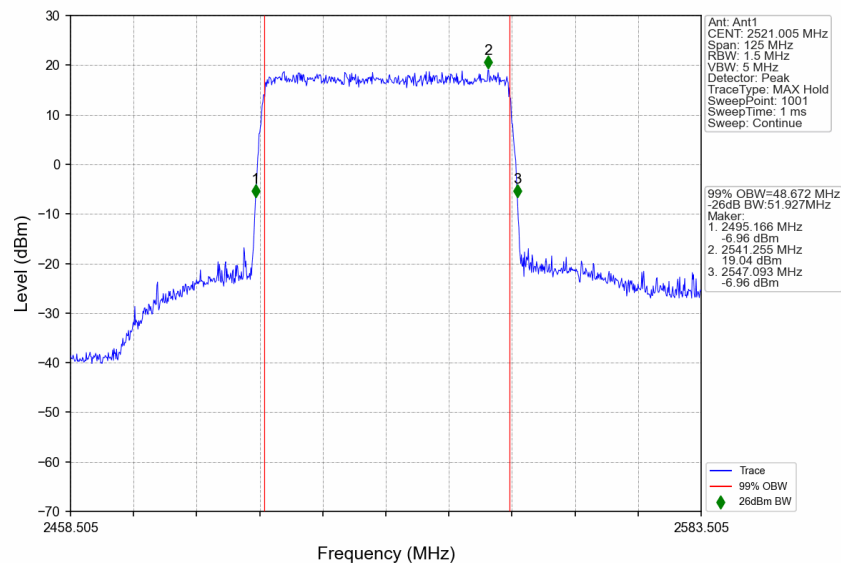
Rev.: 01

Page: 236 of 1245

n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM PI/2 BPSK_2664.99MHz_Outer_Full



n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_2521.005MHz_Outer_Full



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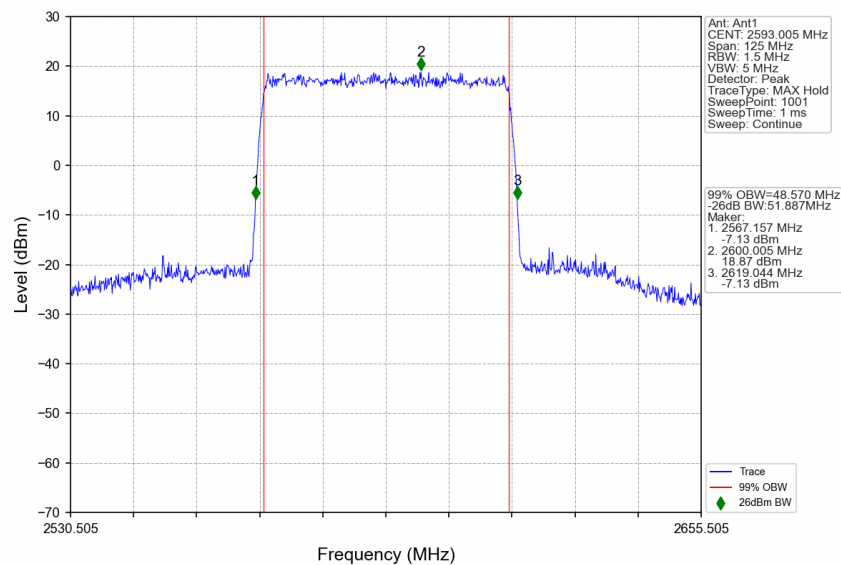
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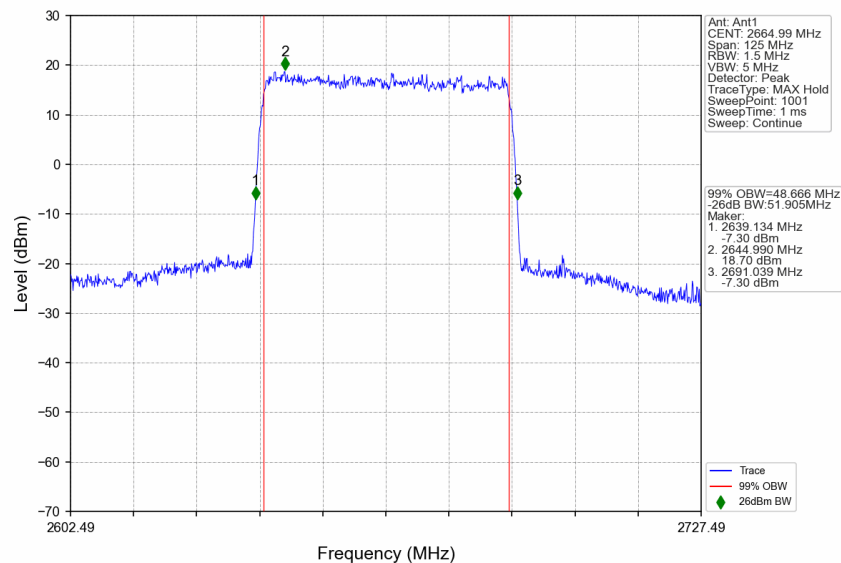
Rev.: 01

Page: 237 of 1245

n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM QPSK_2664.99MHz_Outer_Full



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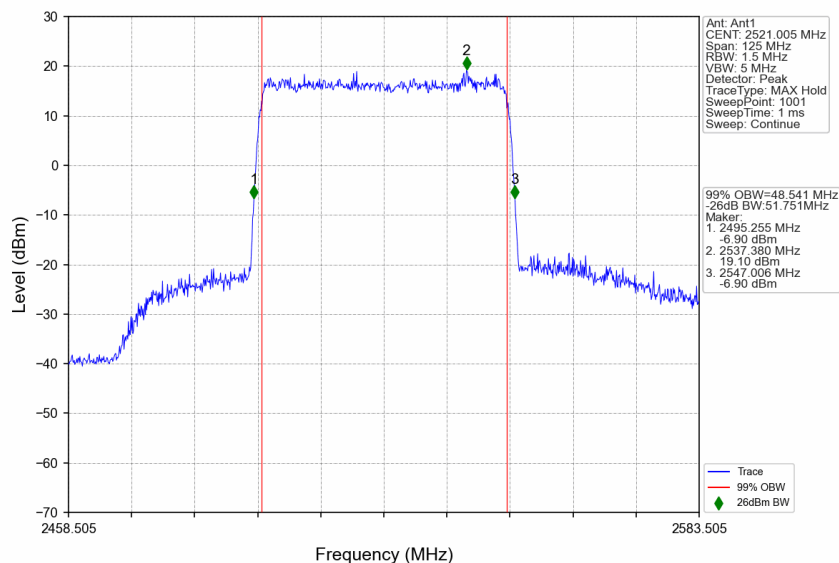
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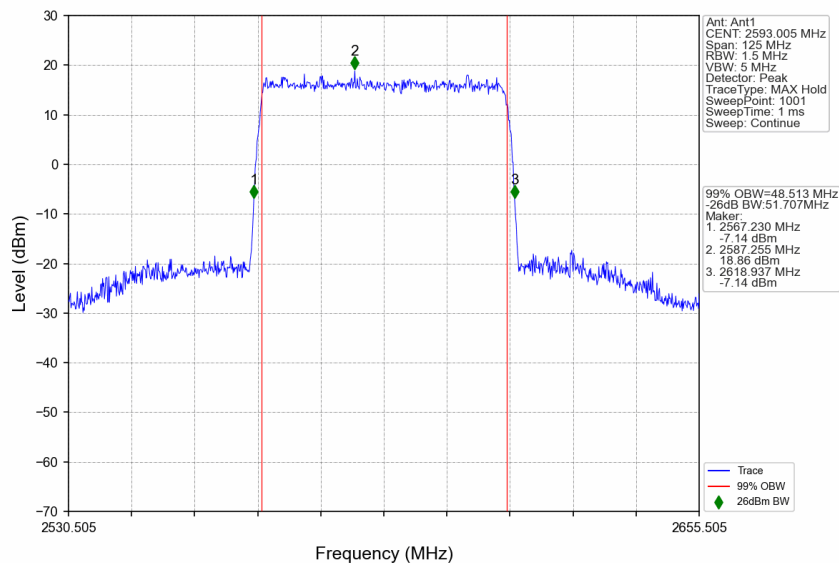
Rev.: 01

Page: 238 of 1245

n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_2521.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_16_QAM_2593.005MHz_Outer_Full



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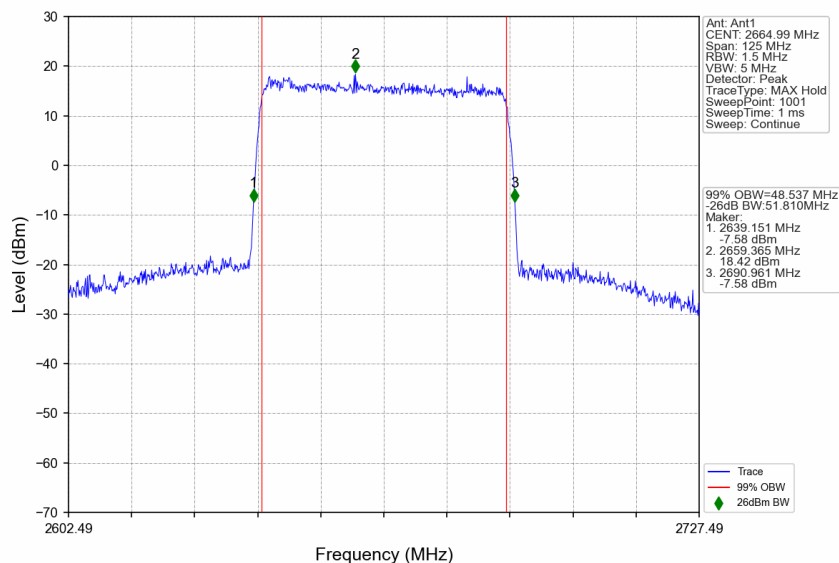
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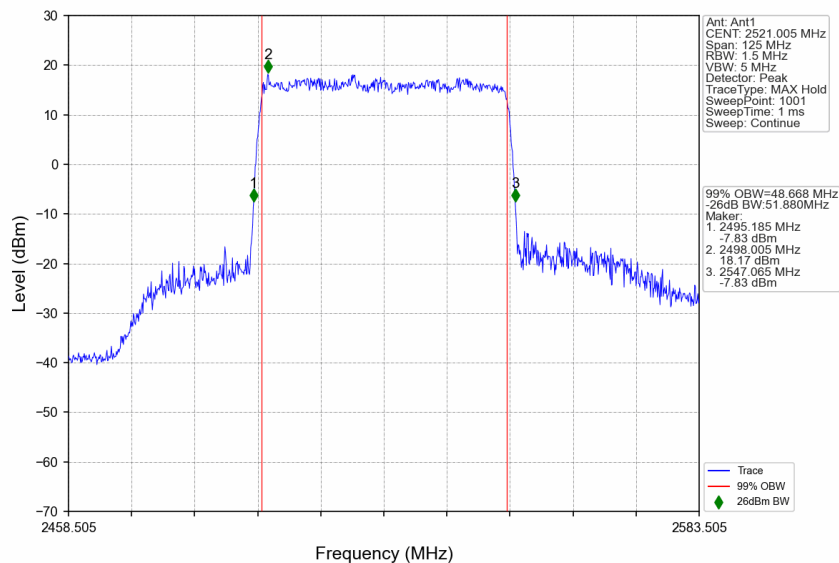
Rev.: 01

Page: 239 of 1245

n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 16 QAM_2664.99MHz_Outer_Full



n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM_2521.005MHz_Outer_Full



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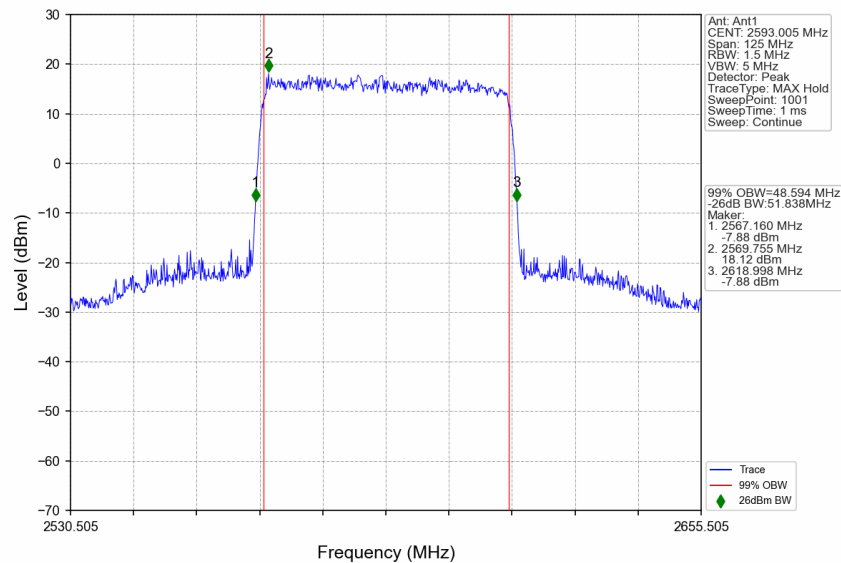
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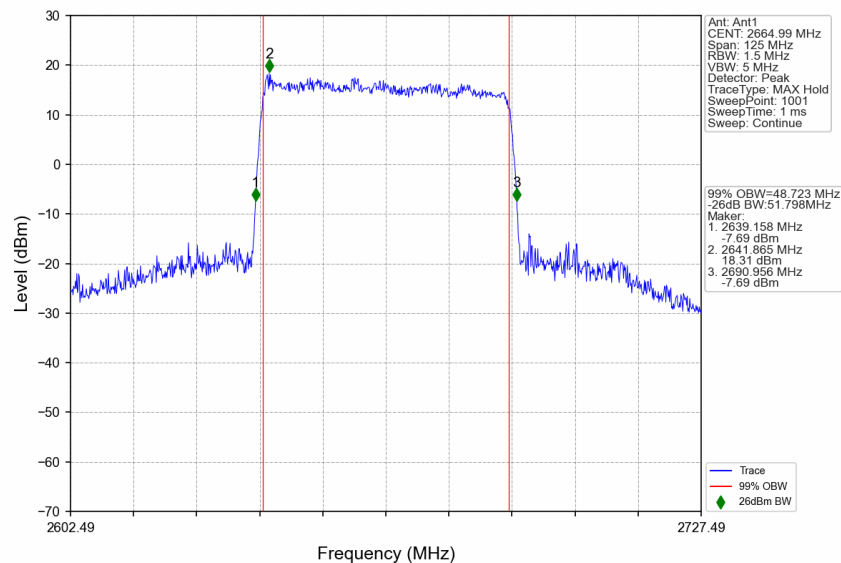
Rev.: 01

Page: 240 of 1245

n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM 2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM 64 QAM 2664.99MHz_Outer_Full



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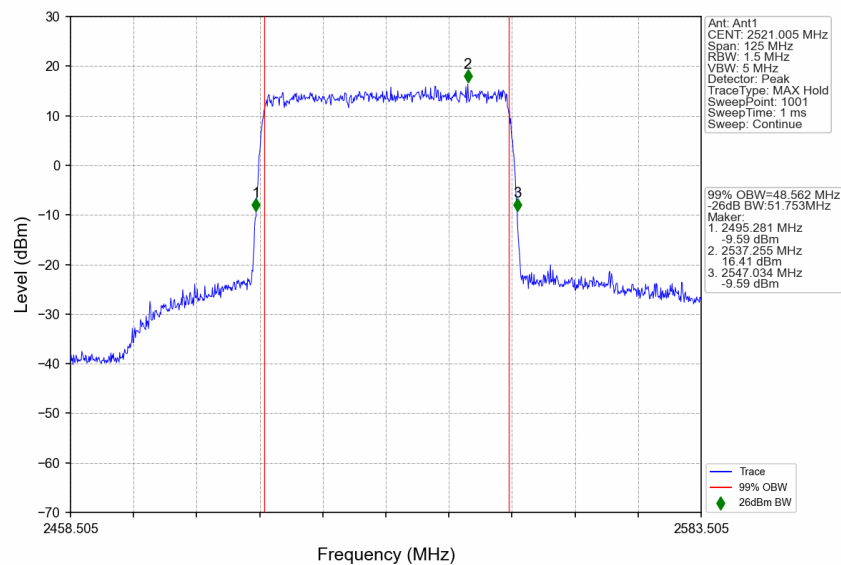
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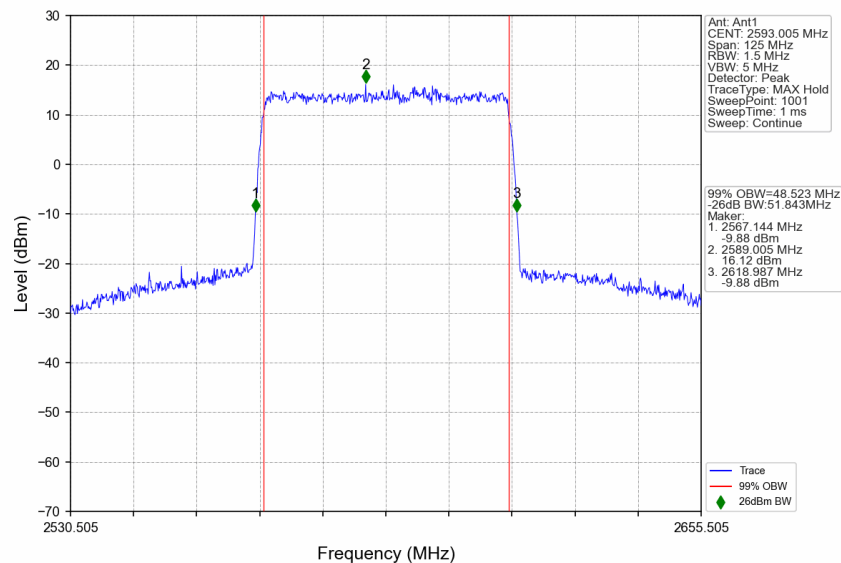
Rev.: 01

Page: 241 of 1245

n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_2521.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_50MHz_DFT-s-OFDM_256_QAM_2593.005MHz_Outer_Full



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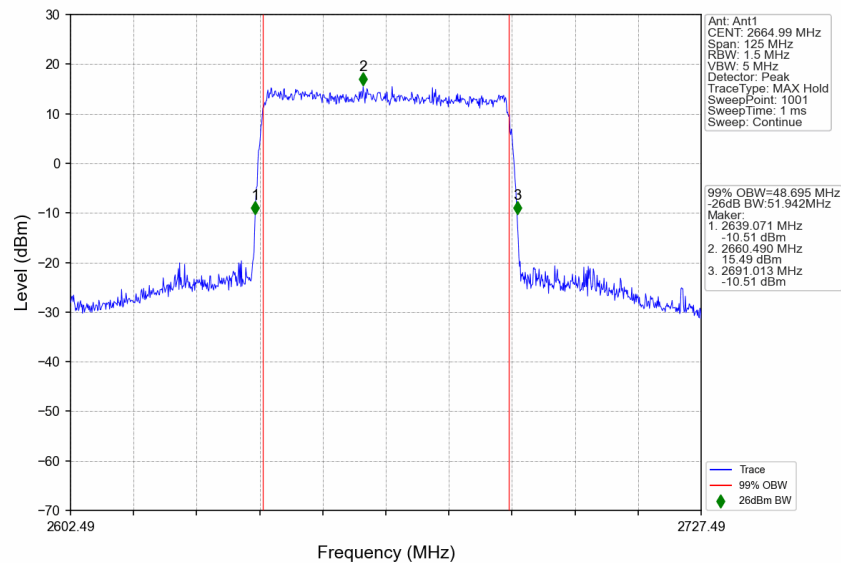
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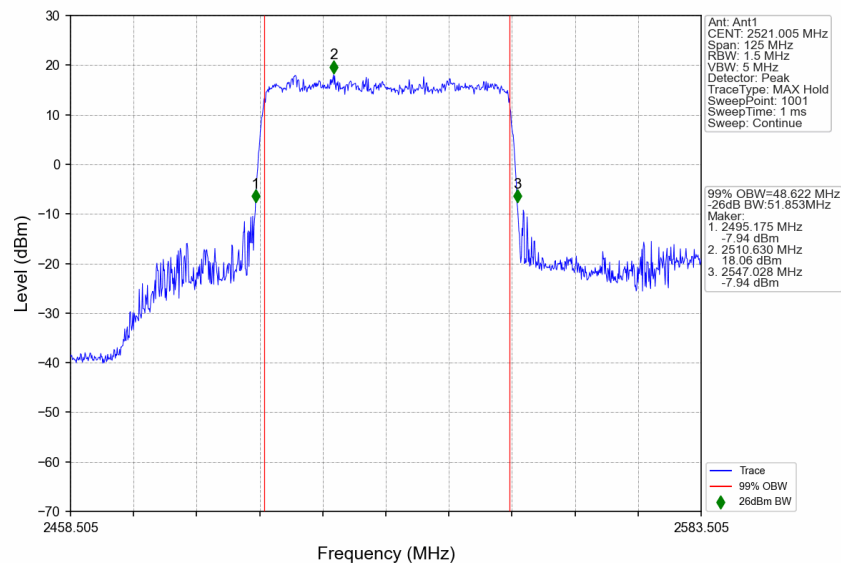
Rev.: 01

Page: 242 of 1245

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n41_15kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_2521.005MHz_Outer_Full



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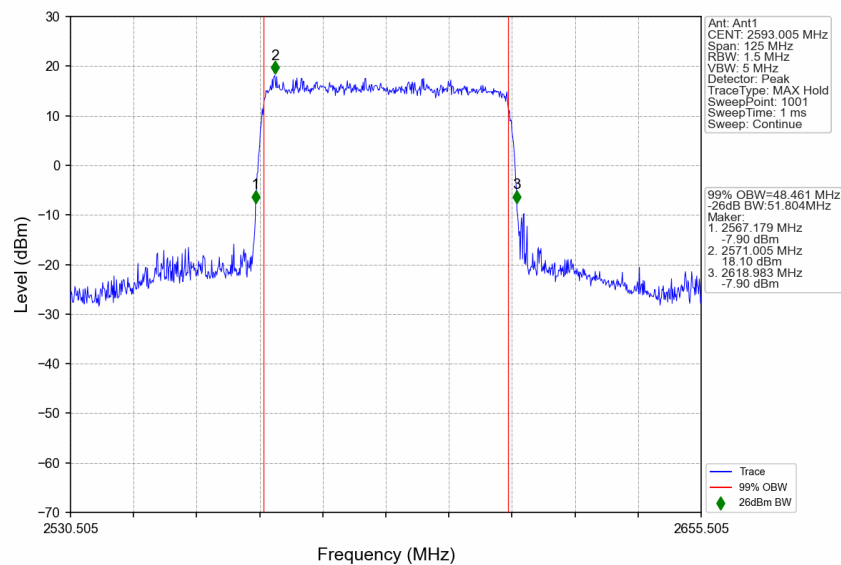
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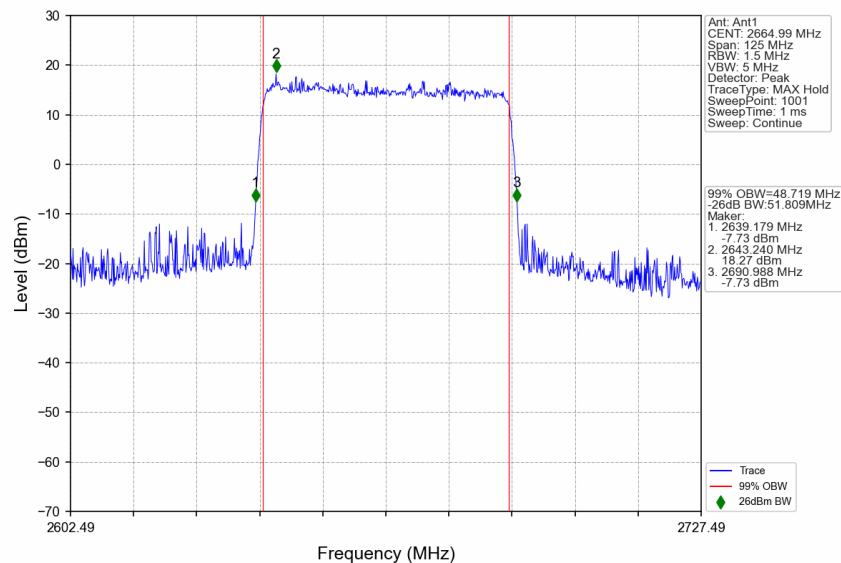
Rev.: 01

Page: 243 of 1245

n41_15kHz_SISO_NTNV_50MHz_CP-OFDM QPSK_2593.005MHz_Outer_Full



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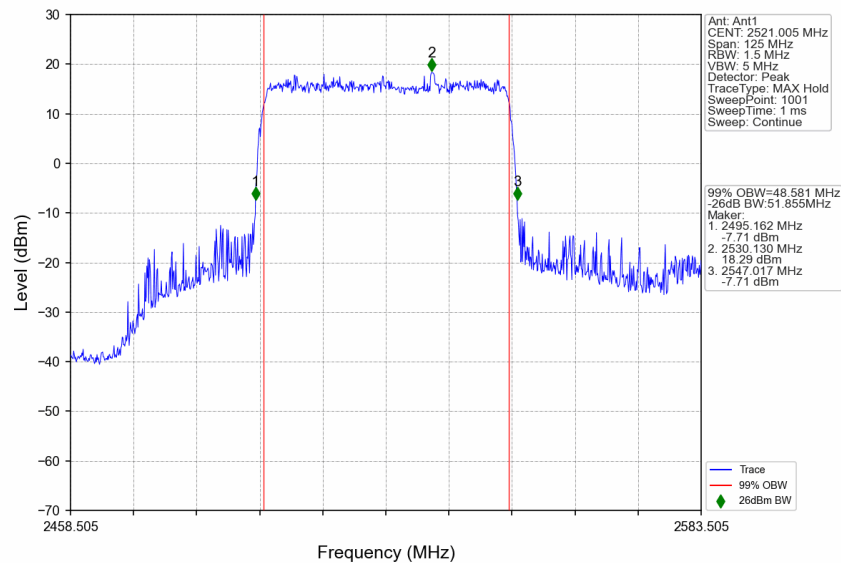
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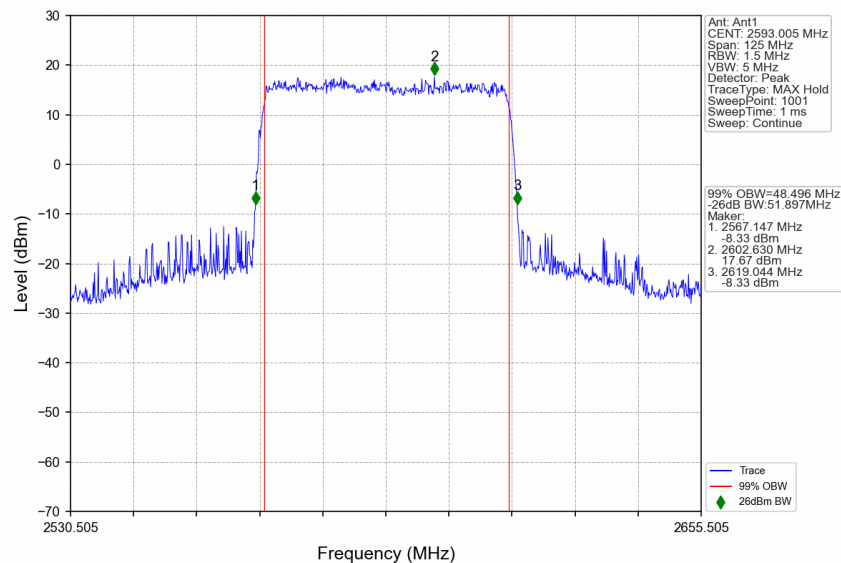
Rev.: 01

Page: 244 of 1245

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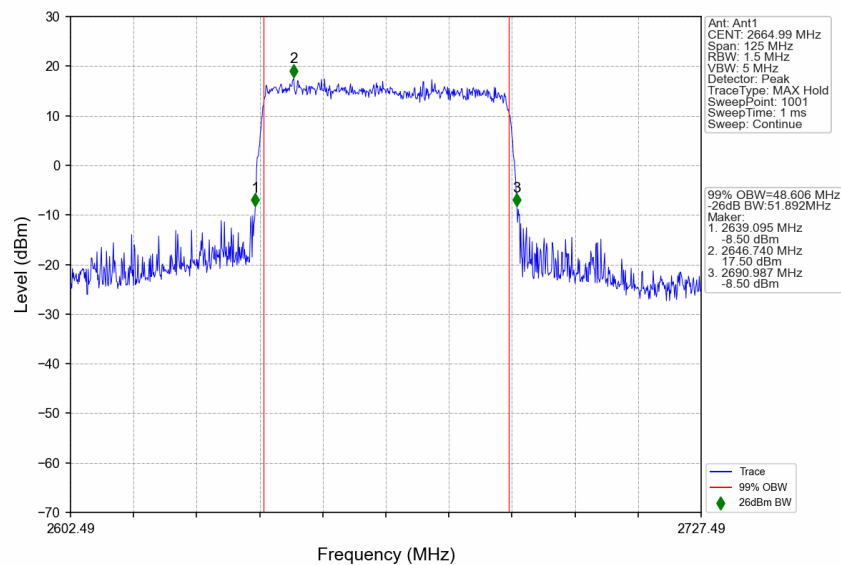
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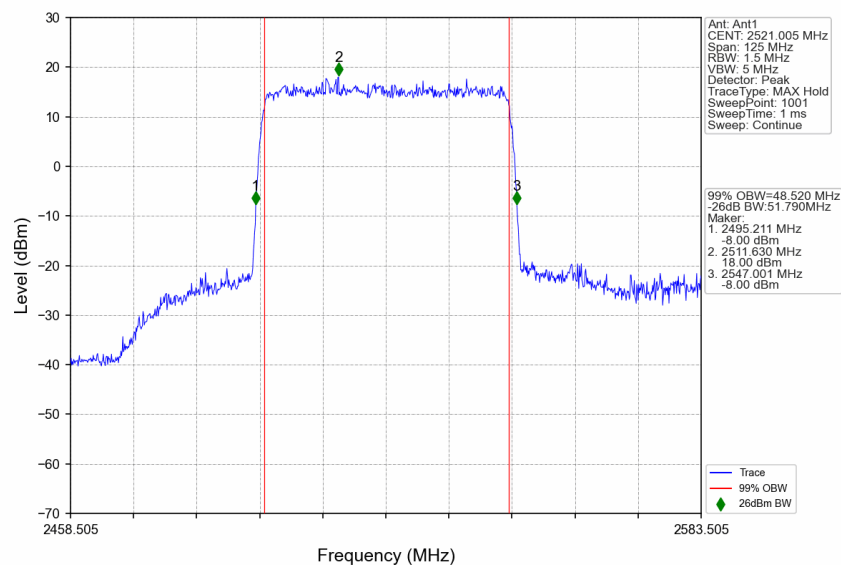
Rev.: 01

Page: 245 of 1245

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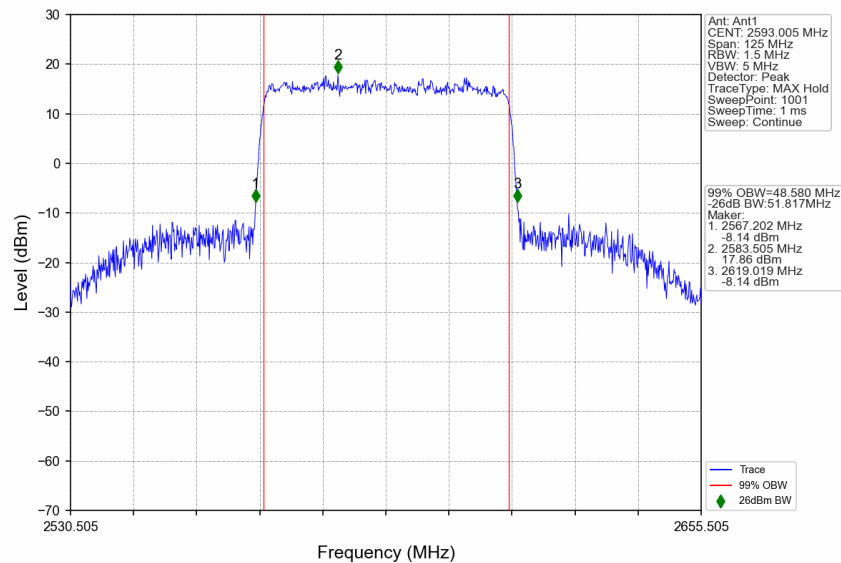
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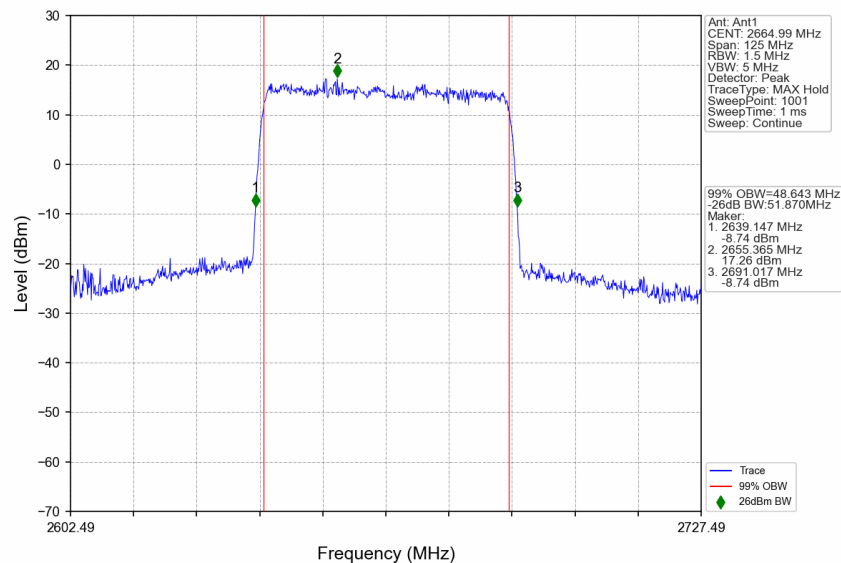
Rev.: 01

Page: 246 of 1245

n41_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM 2593.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_50MHz_CP-OFDM 64 QAM 2664.99MHz_Outer_Full



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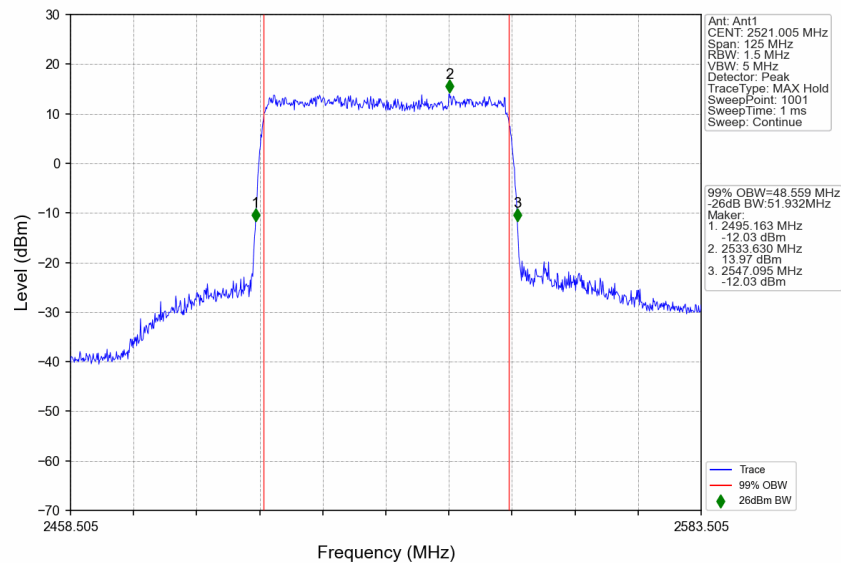
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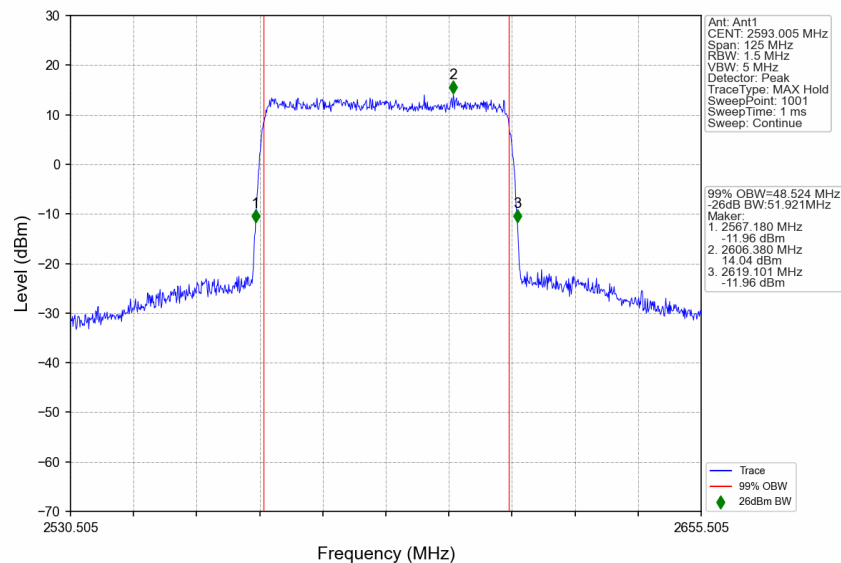
Rev.: 01

Page: 247 of 1245

n41_15kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_2521.005MHz_Outer_Full



n41_15kHz_SISO_NTNV_50MHz_CP-OFDM 256 QAM_2593.005MHz_Outer_Full



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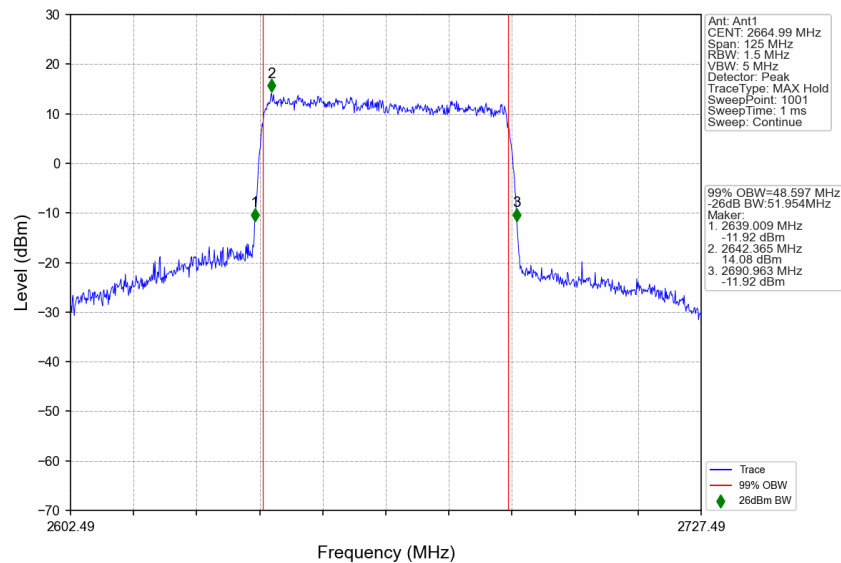
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Report No.: SEWM2311000456RG02

Rev.: 01

Page: 248 of 1245

n41_15kHz_SISO_NTNV_50MHz_CP-OFDM_256_QAM_2664.99MHz_Outer_Full



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4.8 30k_SISO_10MHz_NTNV

4.8.1 Test Result

5G NR n41 SCS=30kHz SISO 10MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2501.01	Outer_Full	8.70	9.47	/	Pass
	2592.99	Outer_Full	8.72	9.51	/	Pass
	2685	Outer_Full	8.72	9.48	/	Pass
DFT-s-OFDM QPSK	2501.01	Outer_Full	8.68	9.58	/	Pass
	2592.99	Outer_Full	8.66	9.59	/	Pass
	2685	Outer_Full	8.70	9.59	/	Pass
DFT-s-OFDM 16 QAM	2501.01	Outer_Full	8.65	9.53	/	Pass
	2592.99	Outer_Full	8.67	9.59	/	Pass
	2685	Outer_Full	8.68	9.54	/	Pass
DFT-s-OFDM 64 QAM	2501.01	Outer_Full	8.70	9.59	/	Pass
	2592.99	Outer_Full	8.69	9.55	/	Pass
	2685	Outer_Full	8.72	9.56	/	Pass
DFT-s-OFDM 256 QAM	2501.01	Outer_Full	8.64	9.55	/	Pass
	2592.99	Outer_Full	8.65	9.42	/	Pass
	2685	Outer_Full	8.65	9.48	/	Pass
CP-OFDM QPSK	2501.01	Outer_Full	8.66	9.54	/	Pass
	2592.99	Outer_Full	8.67	9.61	/	Pass
	2685	Outer_Full	8.66	9.51	/	Pass
CP-OFDM 16 QAM	2501.01	Outer_Full	8.67	9.59	/	Pass
	2592.99	Outer_Full	8.69	9.55	/	Pass
	2685	Outer_Full	8.68	9.55	/	Pass
CP-OFDM 64 QAM	2501.01	Outer_Full	8.66	9.55	/	Pass
	2592.99	Outer_Full	8.66	9.43	/	Pass
	2685	Outer_Full	8.68	9.60	/	Pass
CP-OFDM 256 QAM	2501.01	Outer_Full	8.71	9.60	/	Pass
	2592.99	Outer_Full	8.72	9.58	/	Pass
	2685	Outer_Full	8.73	9.61	/	Pass



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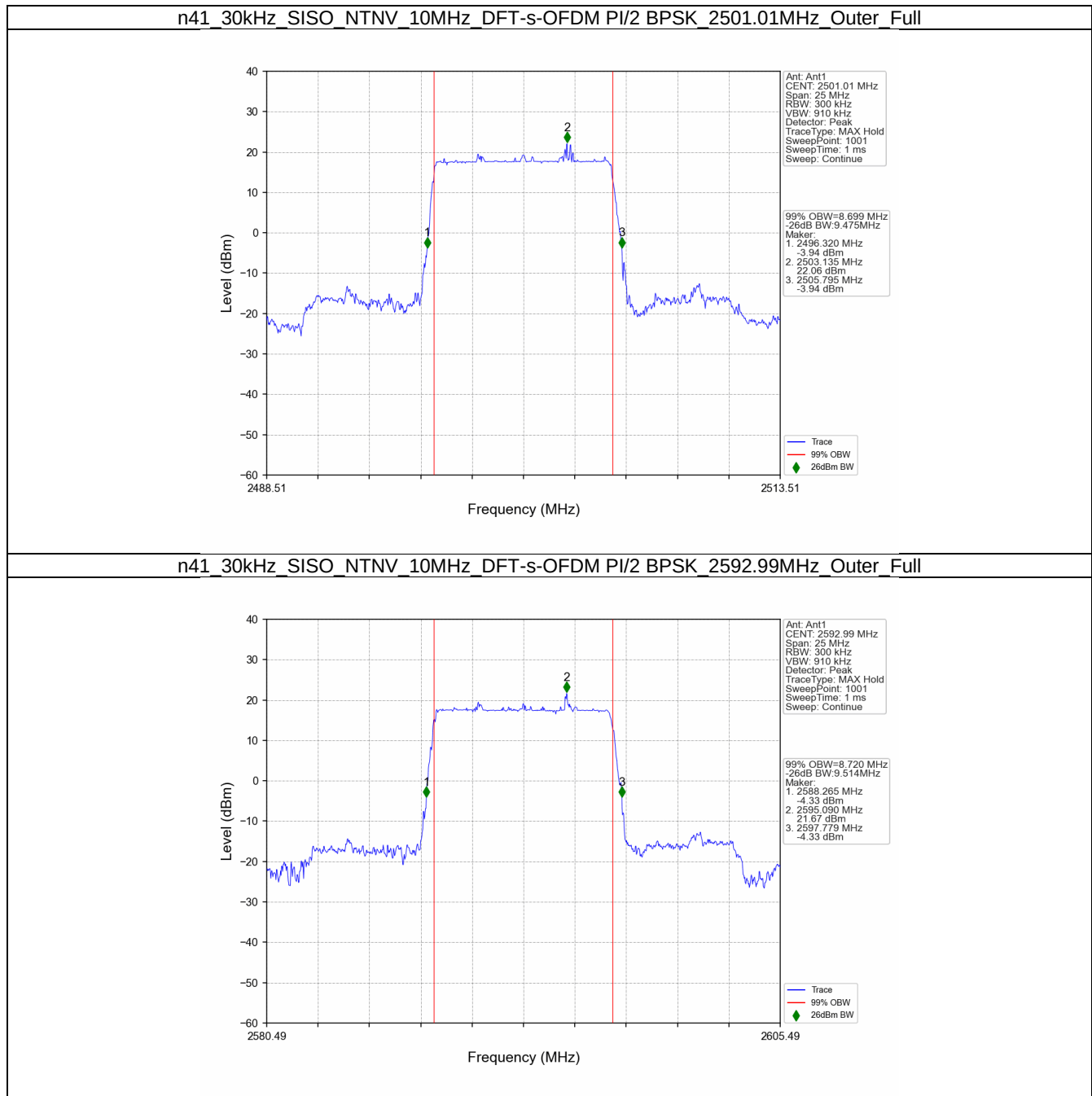
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Rev.: 01

Page: 250 of 1245

4.8.2 Test Graph



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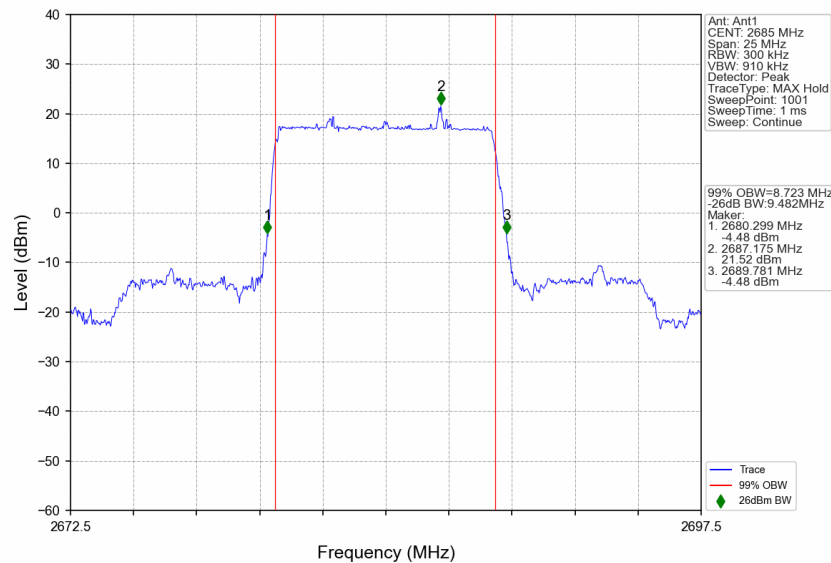
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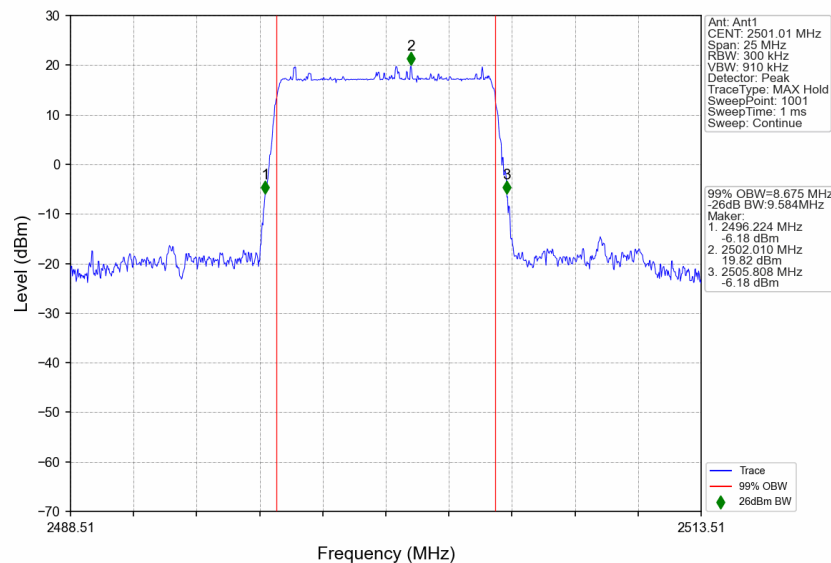
Rev.: 01

Page: 251 of 1245

n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM PI/2 BPSK_2685MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2501.01MHz_Outer_Full



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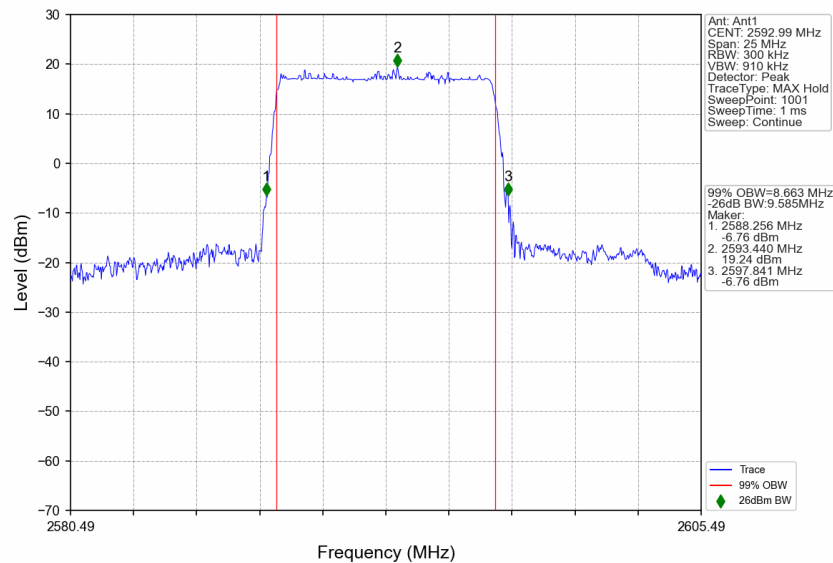
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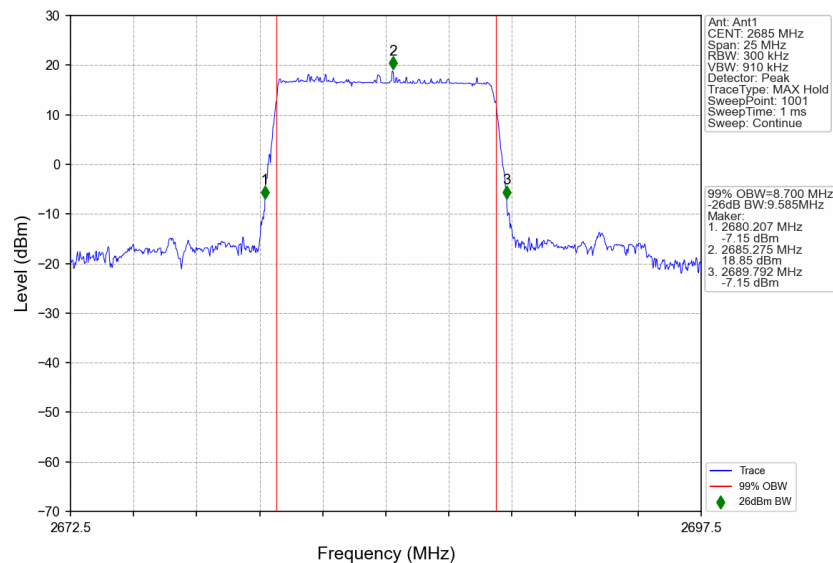
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Page: 252 of 1245

n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM QPSK_2685MHz_Outer_Full



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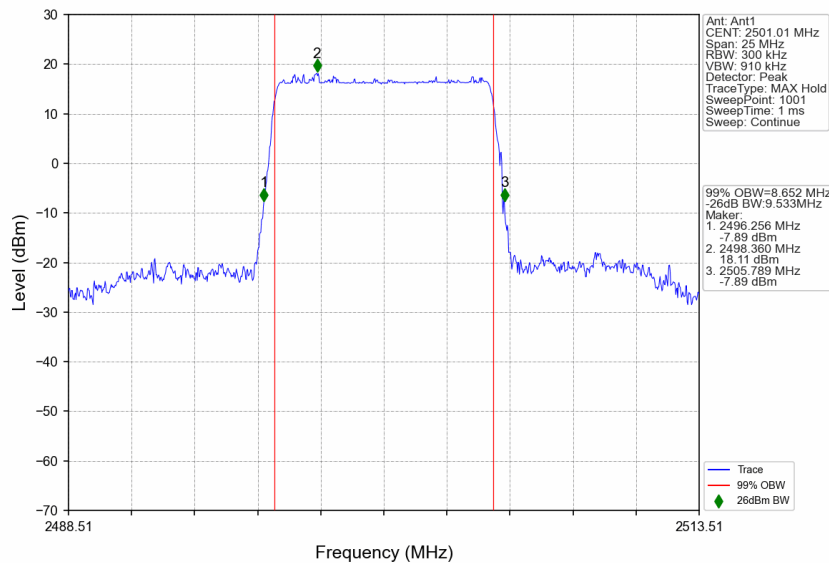
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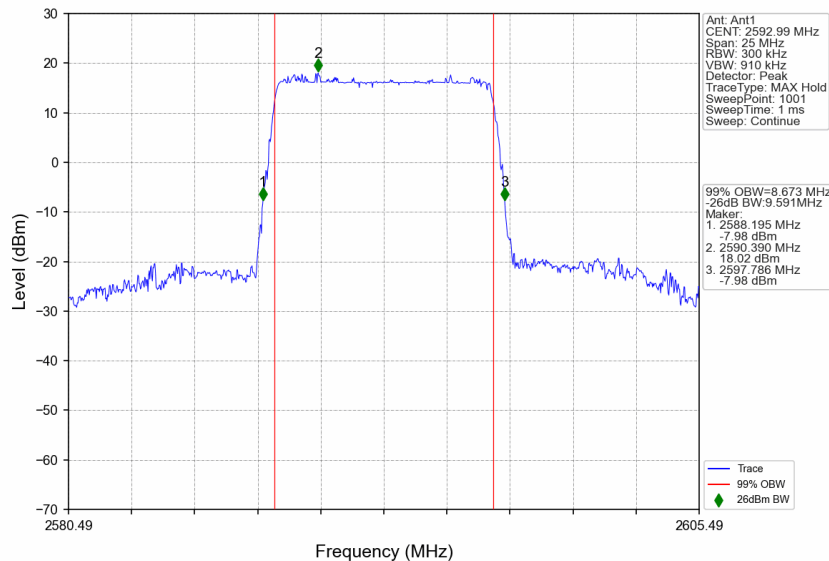
Rev.: 01

Page: 253 of 1245

n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2501.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_16_QAM_2592.99MHz_Outer_Full



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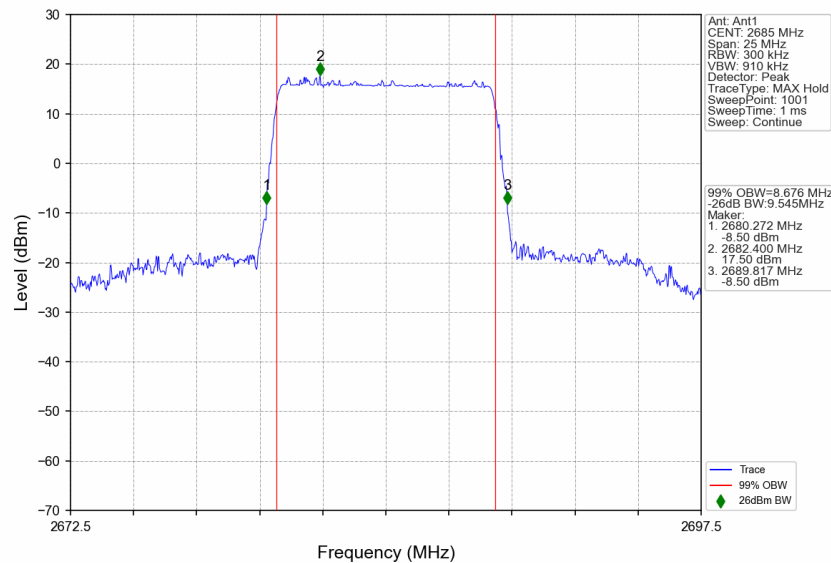
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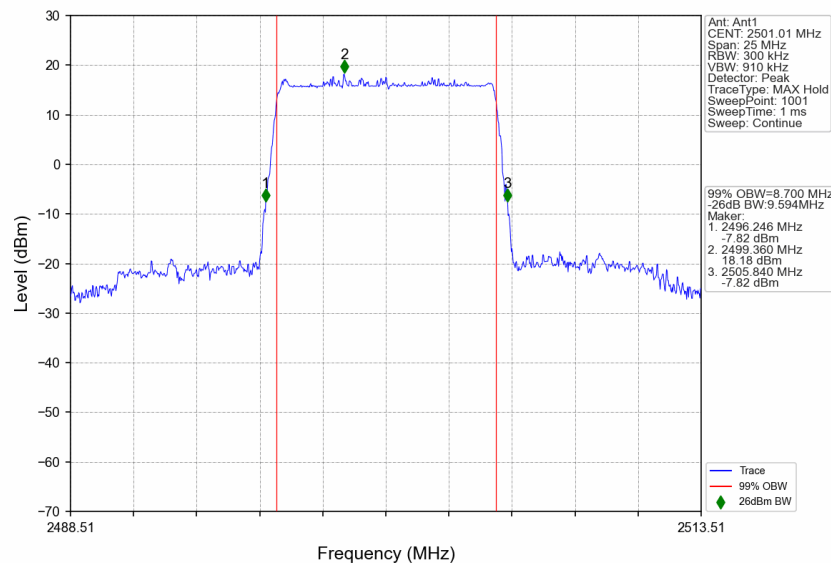
Rev.: 01

Page: 254 of 1245

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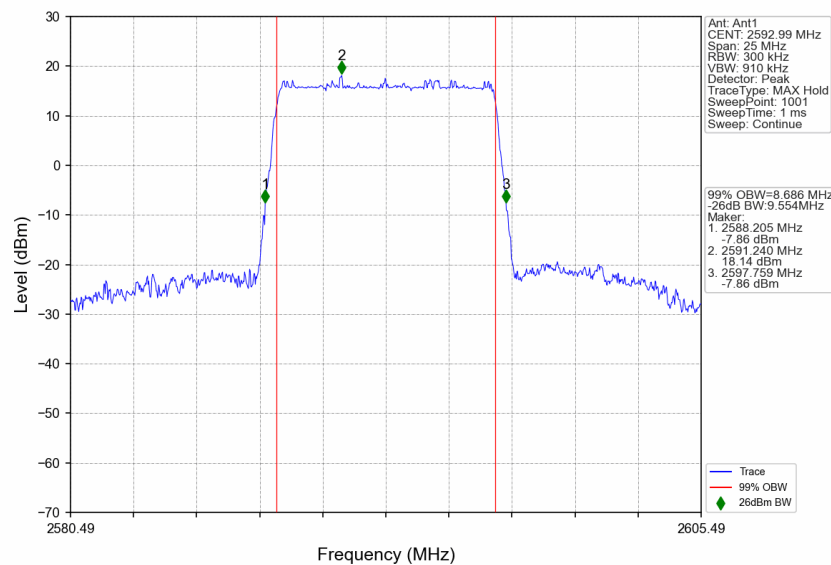
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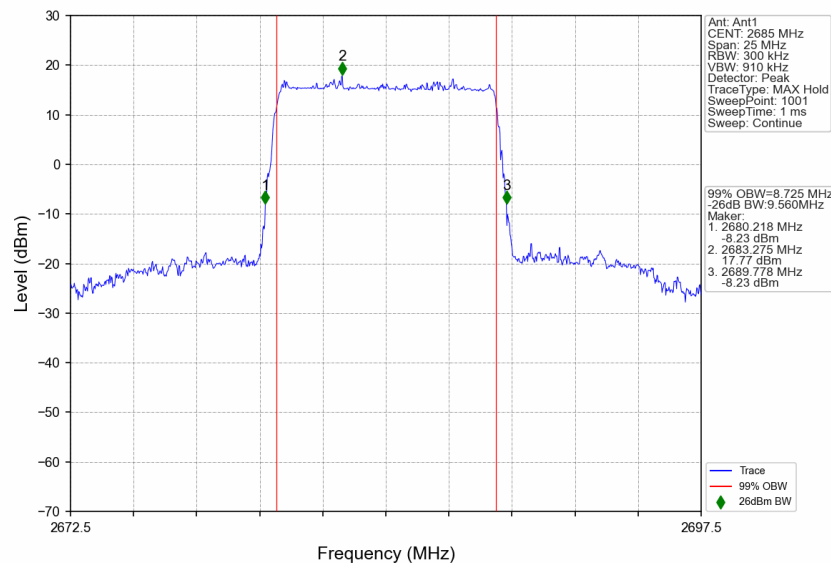
Rev.: 01

Page: 255 of 1245

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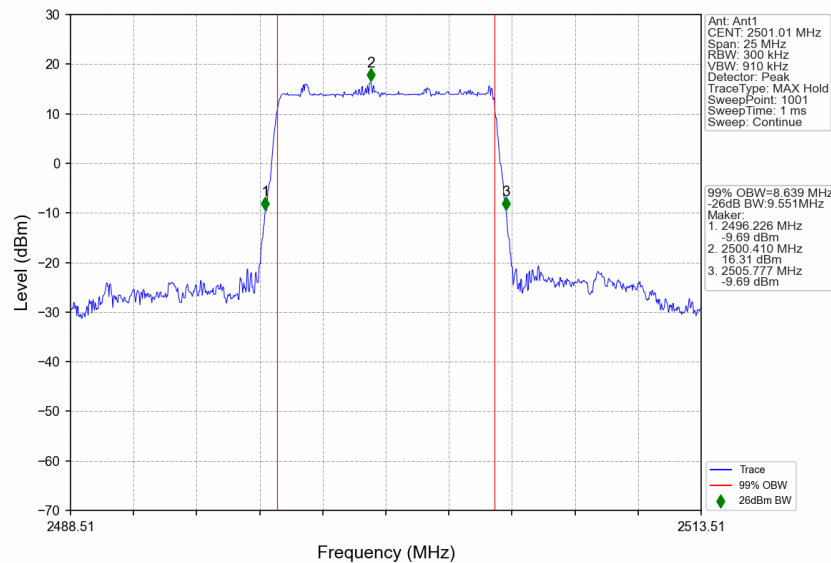
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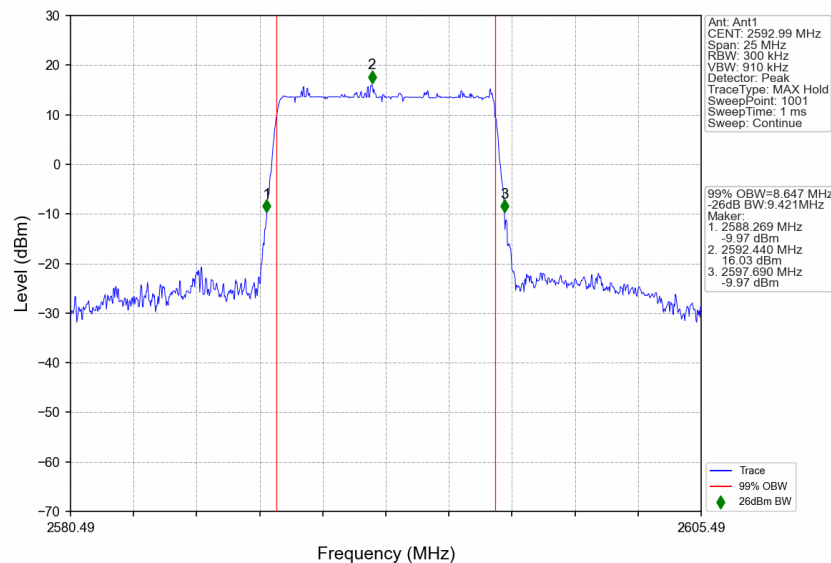
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Page: 256 of 1245

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n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM_256 QAM_2592.99MHz_Outer_Full



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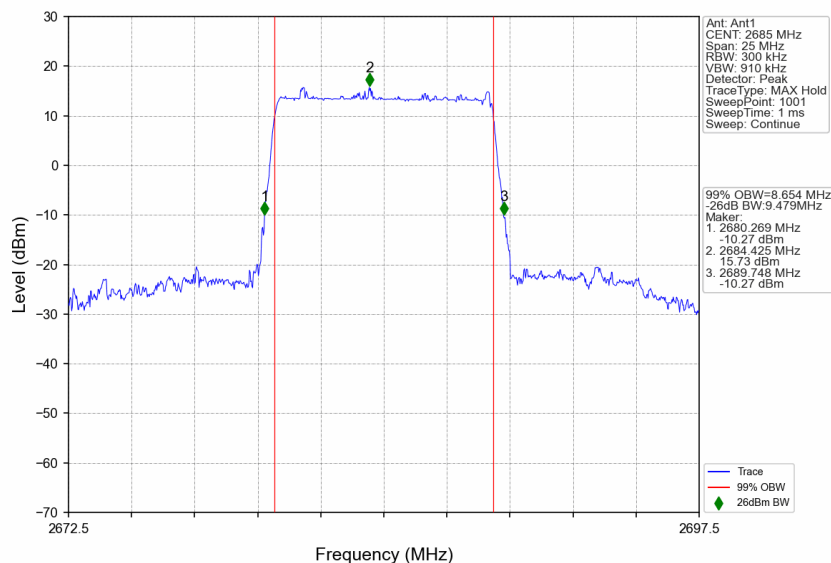
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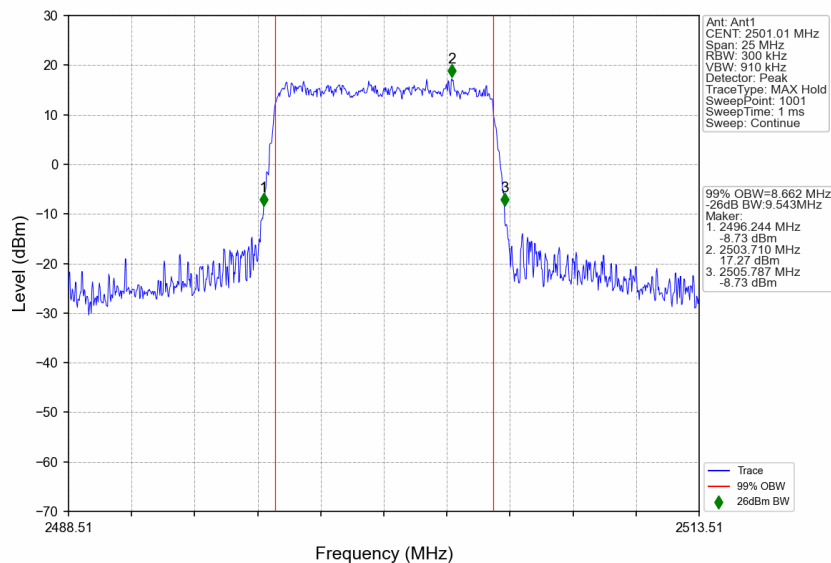
Rev.: 01

Page: 257 of 1245

n41_30kHz_SISO_NTNV_10MHz_DFT-s-OFDM 256 QAM 2685MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK 2501.01MHz_Outer_Full



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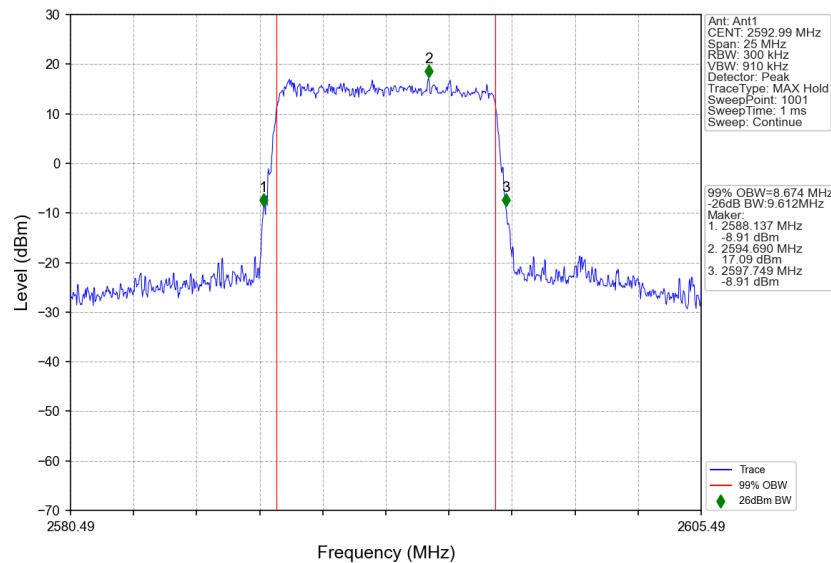
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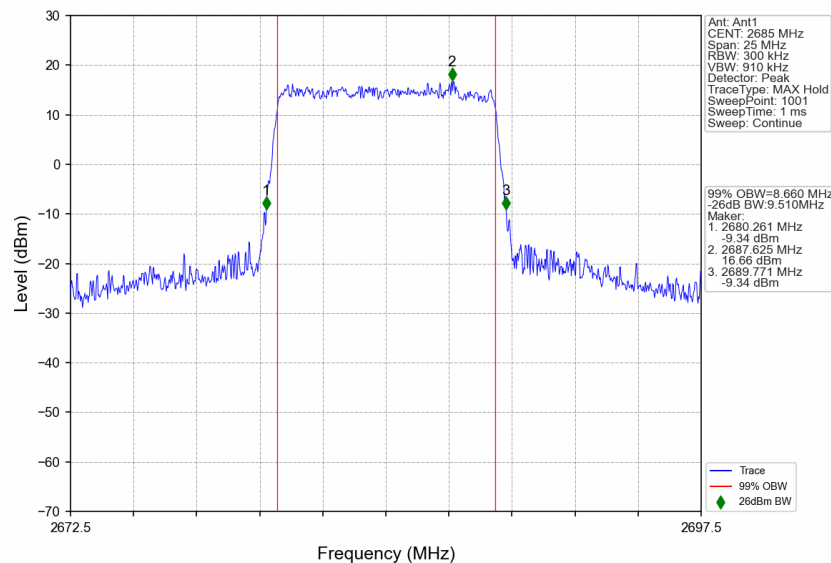
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Page: 258 of 1245

n41_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_CP-OFDM QPSK_2685MHz_Outer_Full



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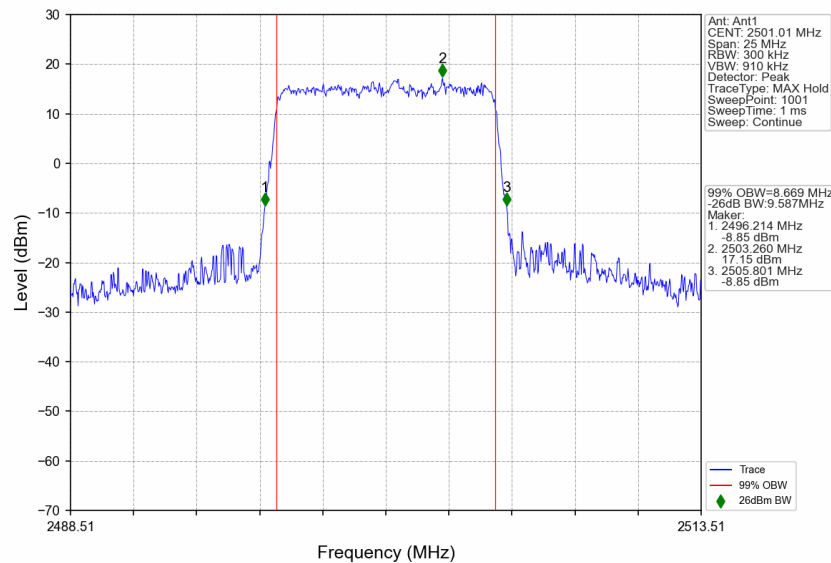
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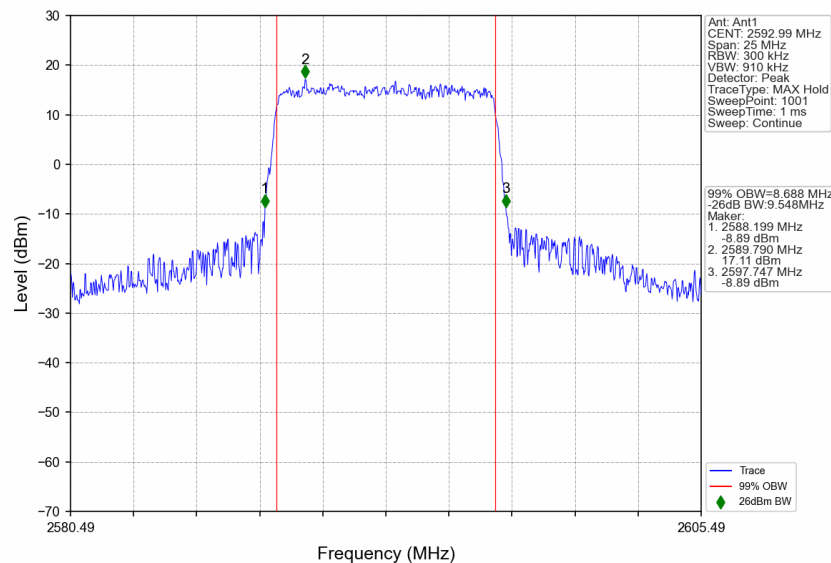
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Page: 259 of 1245

n41_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2501.01MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_CP-OFDM_16_QAM_2592.99MHz_Outer_Full



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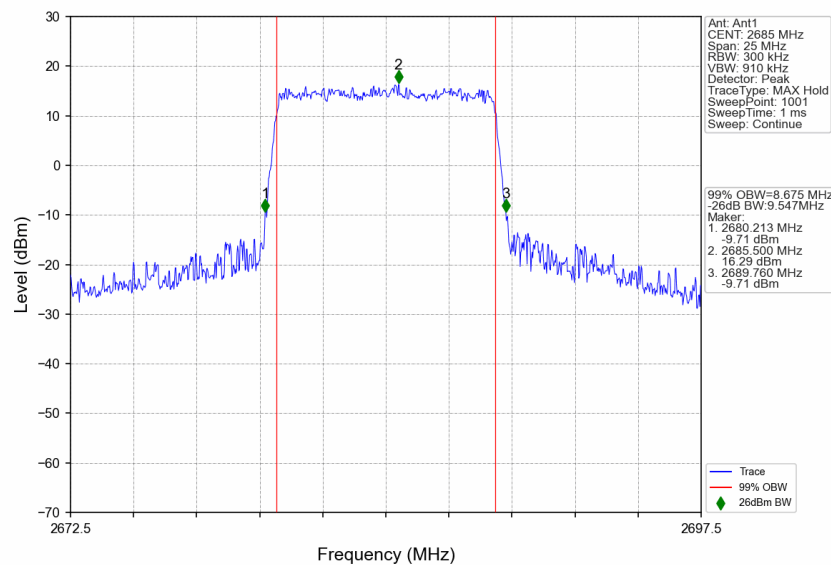
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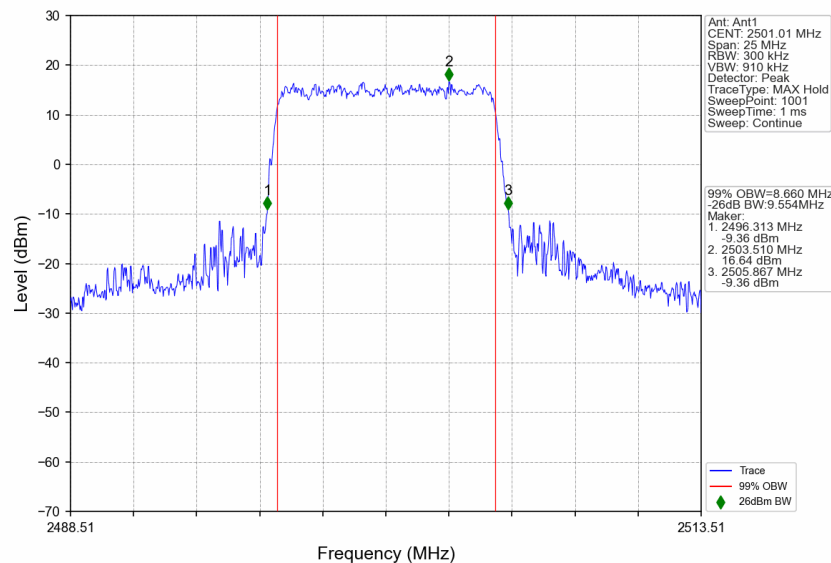
Rev.: 01

Page: 260 of 1245

n41_30kHz_SISO_NTNV_10MHz_CP-OFDM 16 QAM_2685MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_CP-OFDM 64 QAM_2501.01MHz_Outer_Full



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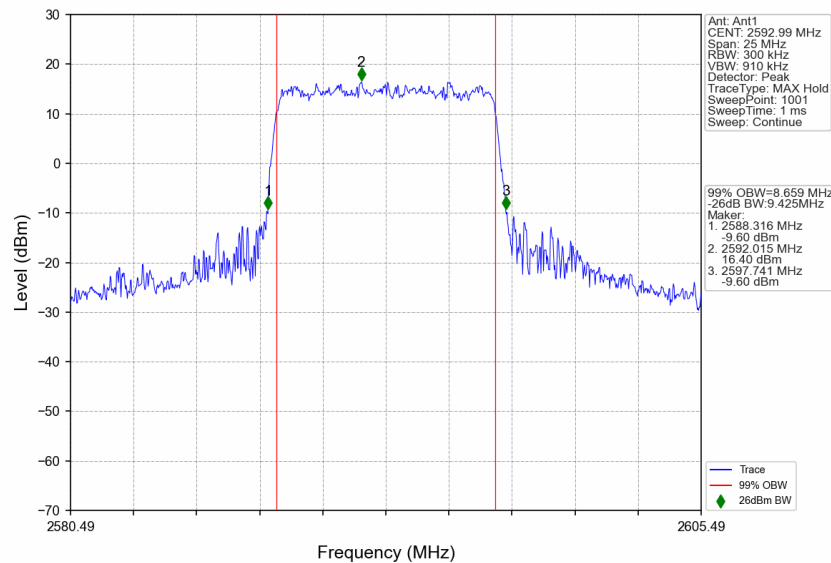
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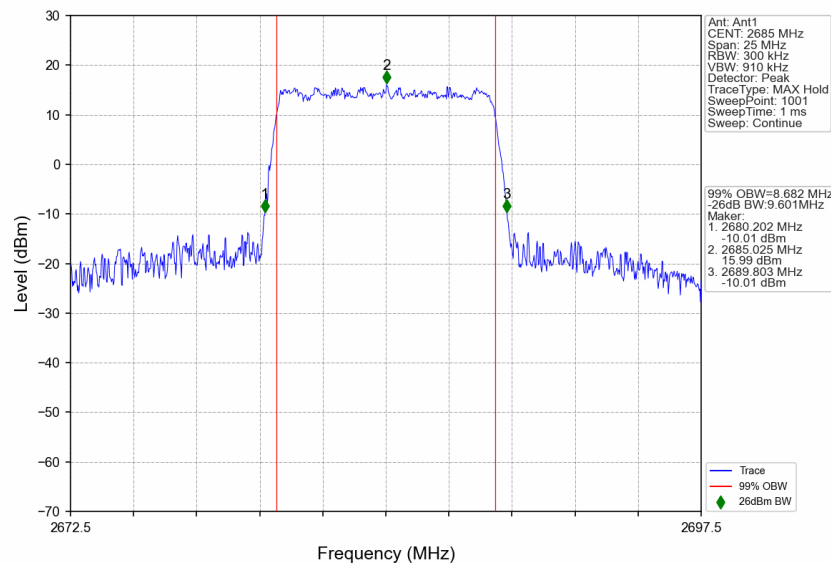
Rev.: 01

Page: 261 of 1245

n41_30kHz_SISO_NTNV_10MHz_CP-OFDM_64_QAM_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_10MHz_CP-OFDM_64_QAM_2685MHz_Outer_Full



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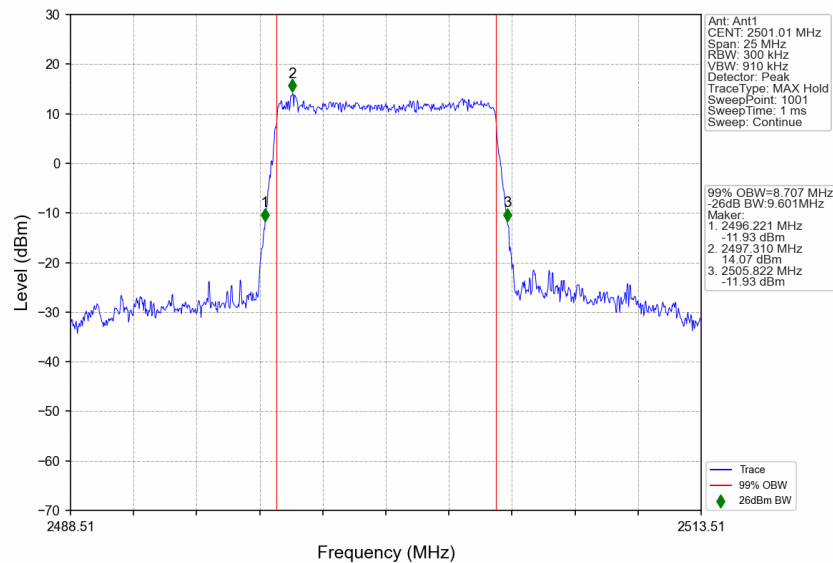
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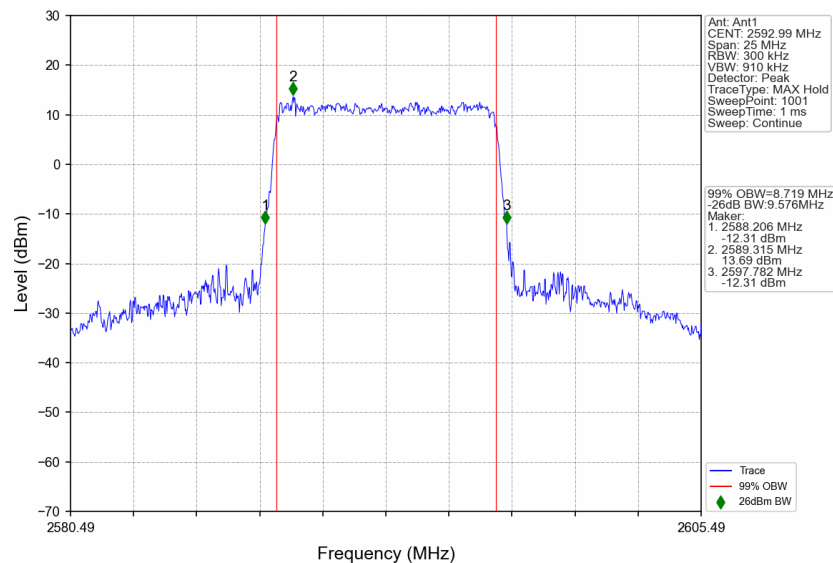
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Page: 262 of 1245

n41_30kHz_SISO_NTNV_10MHz_CP-OFDM_256_QAM_2501.01MHz_Outer_Full



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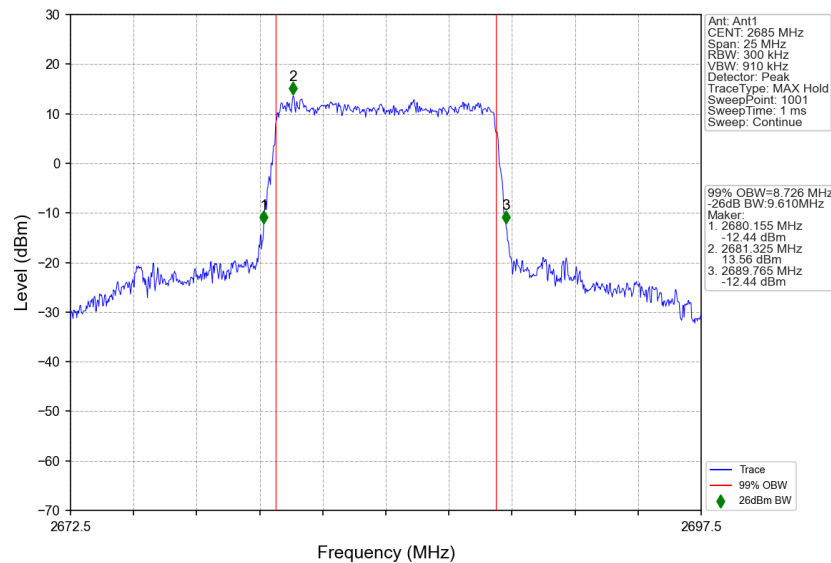
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Rev.: 01
Page: 264 of 1245

4.9 30k_SISO_15MHz_NTNV

4.9.1 Test Result

5G NR n41 SCS=30kHz SISO 15MHz NTV						
Modulation	Frequency (MHz)	RB Allocation	99% Bandwidth (MHz)	26dB Bandwidth (MHz)	Limit (MHz)	Verdict
DFT-s-OFDM PI/2 BPSK	2503.5	Outer Full	13.06	14.12	/	Pass
	2592.99	Outer Full	13.11	14.12	/	Pass
	2682.48	Outer Full	13.06	14.27	/	Pass
DFT-s-OFDM QPSK	2503.5	Outer Full	13.06	14.14	/	Pass
	2592.99	Outer Full	13.04	14.04	/	Pass
	2682.48	Outer Full	13.04	14.07	/	Pass
DFT-s-OFDM 16 QAM	2503.5	Outer Full	13.04	14.27	/	Pass
	2592.99	Outer Full	13.05	14.04	/	Pass
	2682.48	Outer Full	13.04	14.23	/	Pass
DFT-s-OFDM 64 QAM	2503.5	Outer Full	13.11	14.16	/	Pass
	2592.99	Outer Full	13.07	14.14	/	Pass
	2682.48	Outer Full	13.10	14.22	/	Pass
DFT-s-OFDM 256 QAM	2503.5	Outer Full	12.99	14.11	/	Pass
	2592.99	Outer Full	13.01	14.10	/	Pass
	2682.48	Outer Full	13.03	14.22	/	Pass
CP-OFDM QPSK	2503.5	Outer Full	13.70	14.86	/	Pass
	2592.99	Outer Full	13.69	14.83	/	Pass
	2682.48	Outer Full	13.71	14.89	/	Pass
CP-OFDM 16 QAM	2503.5	Outer Full	13.71	14.98	/	Pass
	2592.99	Outer Full	13.69	14.97	/	Pass
	2682.48	Outer Full	13.70	14.87	/	Pass
CP-OFDM 64 QAM	2503.5	Outer Full	13.74	14.81	/	Pass
	2592.99	Outer Full	13.80	14.88	/	Pass
	2682.48	Outer Full	13.79	14.91	/	Pass
CP-OFDM 256 QAM	2503.5	Outer Full	13.72	14.91	/	Pass
	2592.99	Outer Full	13.73	14.87	/	Pass
	2682.48	Outer Full	13.75	14.91	/	Pass



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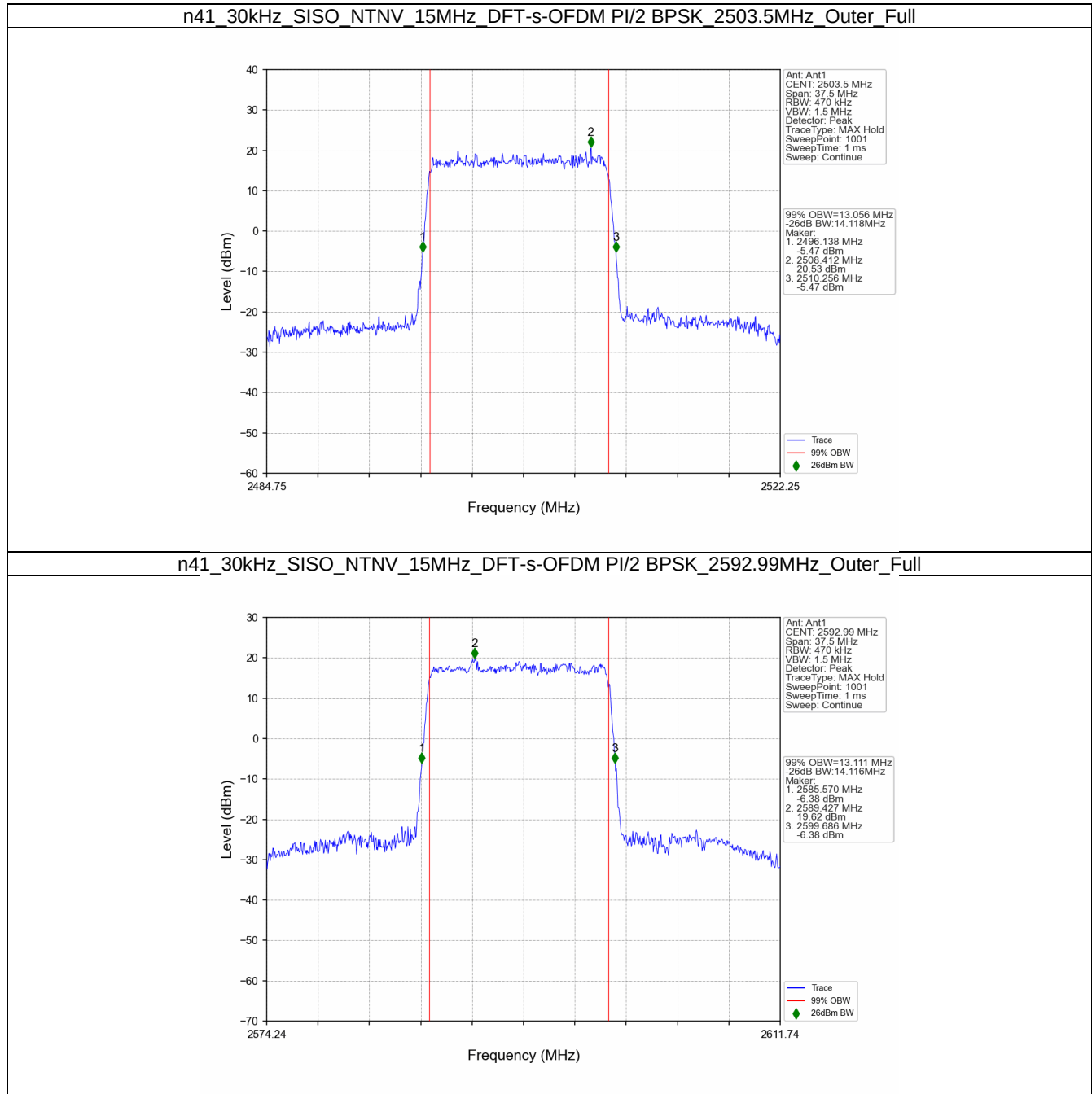
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Rev.: 01

Page: 265 of 1245

4.9.2 Test Graph



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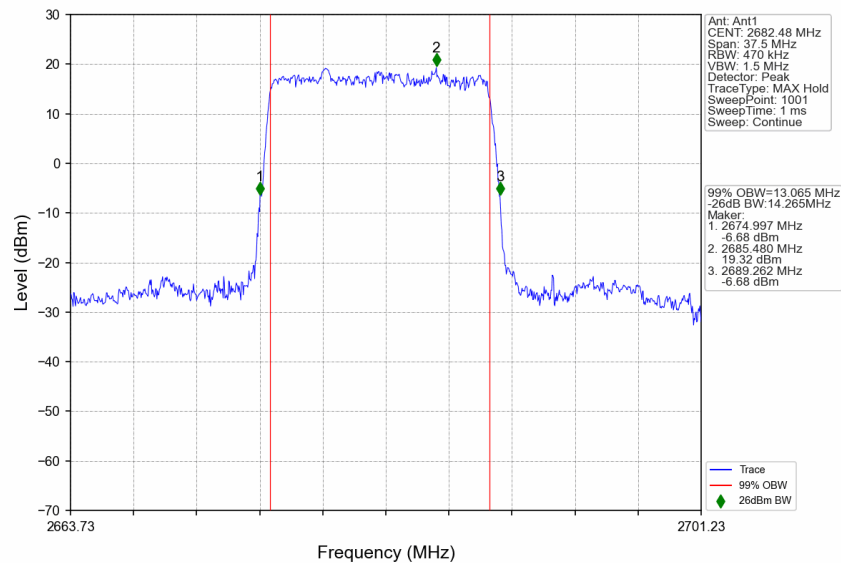
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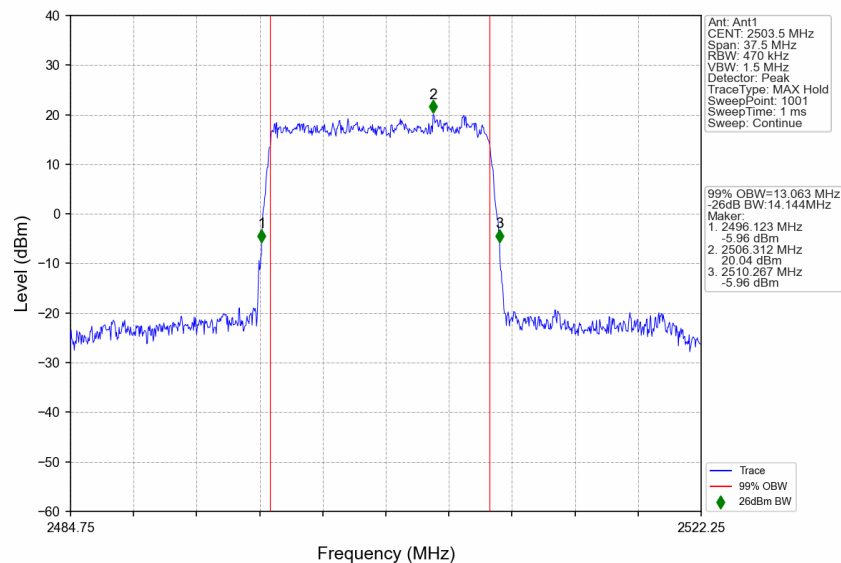
Rev.: 01

Page: 266 of 1245

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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2503.5MHz_Outer_Full



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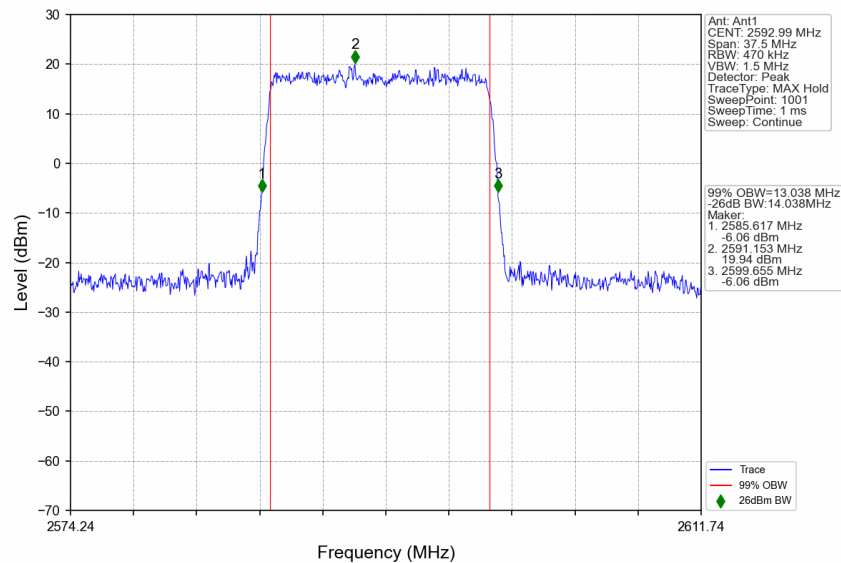
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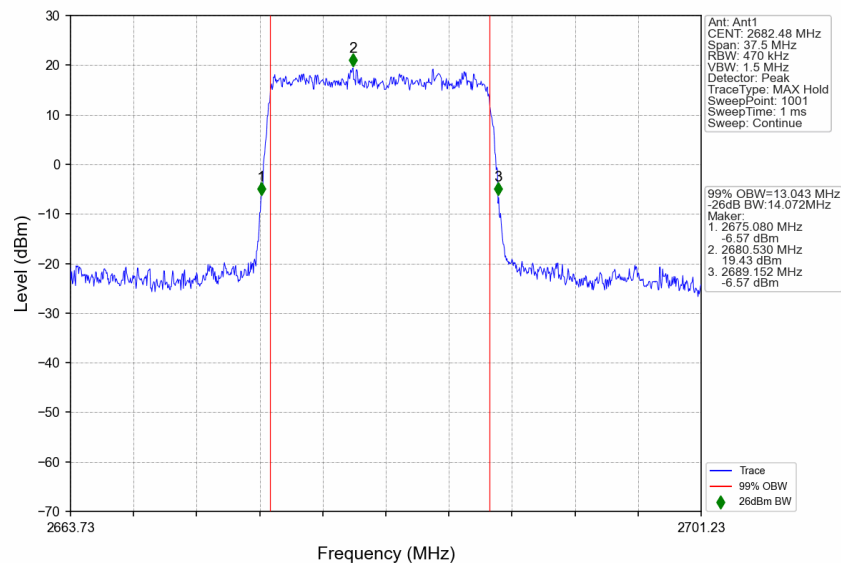
Rev.: 01

Page: 267 of 1245

n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2592.99MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM QPSK_2682.48MHz_Outer_Full



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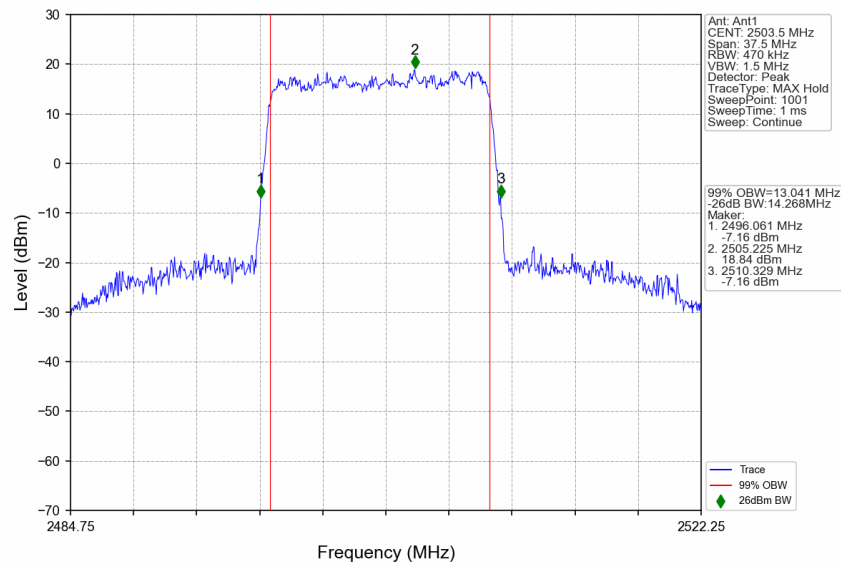
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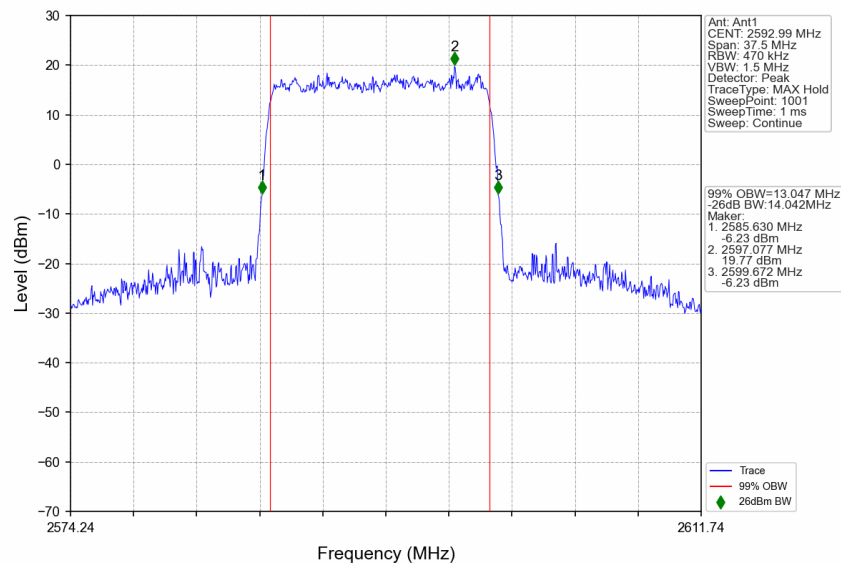
Rev.: 01

Page: 268 of 1245

n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2503.5MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2592.99MHz_Outer_Full



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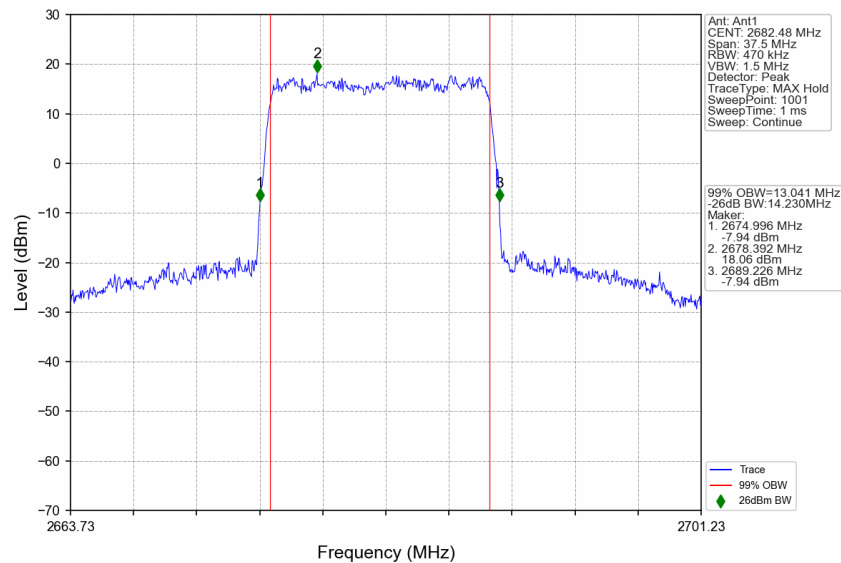
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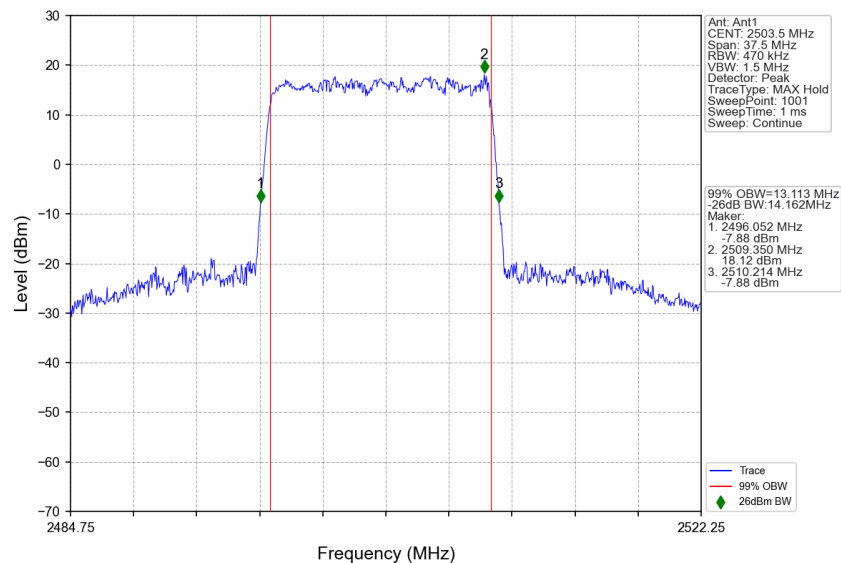
Rev.: 01

Page: 269 of 1245

n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_16_QAM_2682.48MHz_Outer_Full



n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2503.5MHz_Outer_Full



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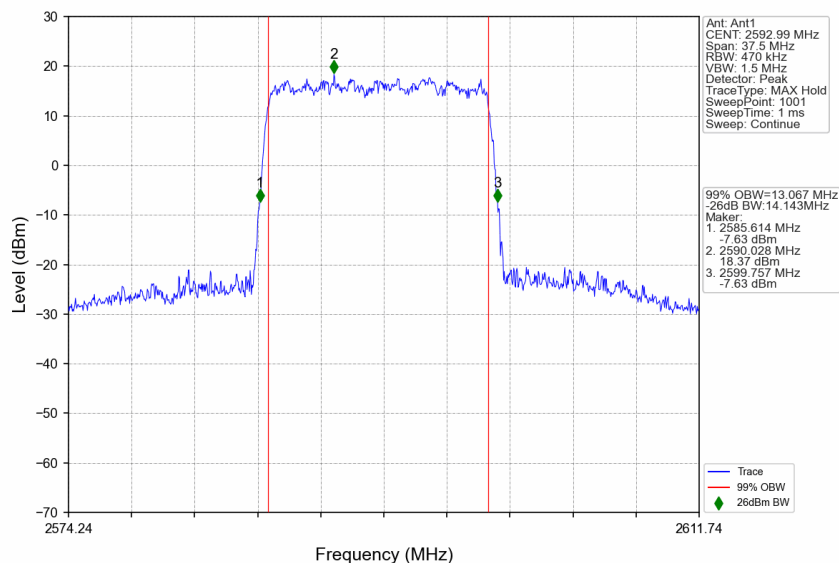
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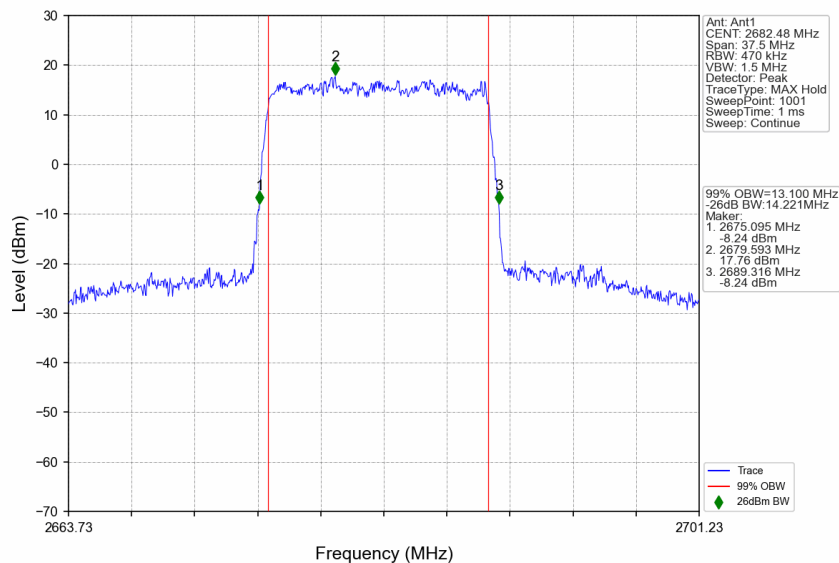
Rev.: 01

Page: 270 of 1245

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n41_30kHz_SISO_NTNV_15MHz_DFT-s-OFDM_64_QAM_2682.48MHz_Outer_Full



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