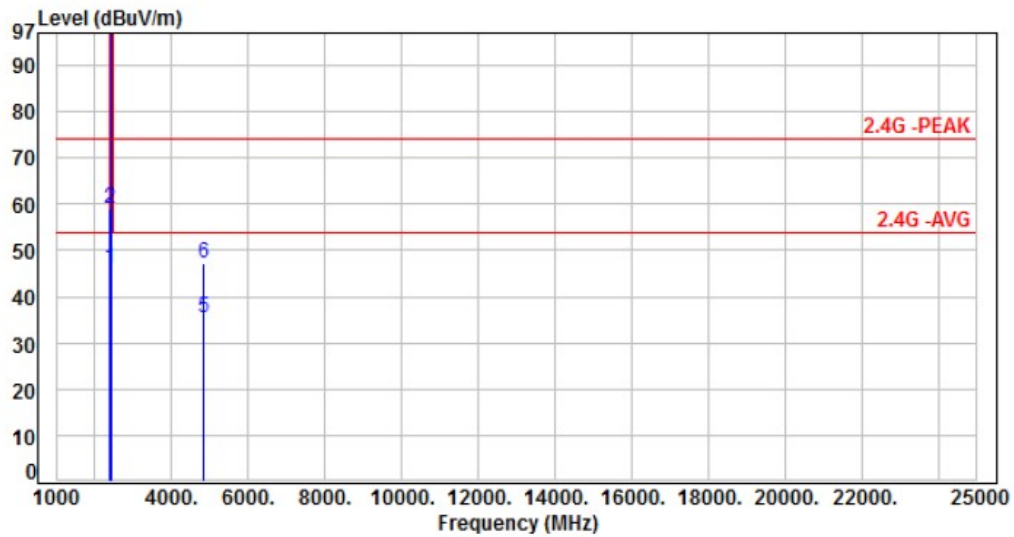




Power	: AC 120V / 60Hz from PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 12, 11ax HE20 CH01		

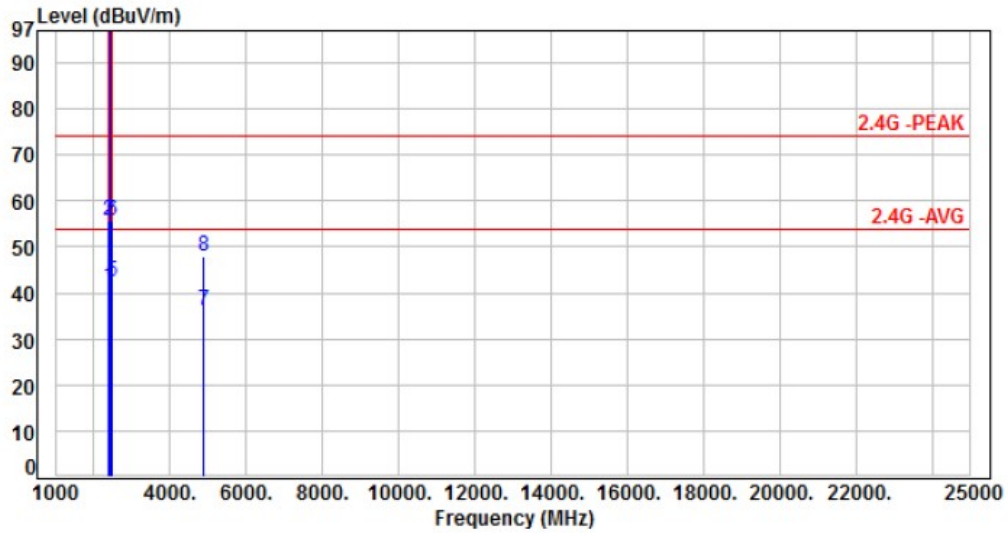


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	48.28	46.16	54.00	-7.84	Average	100	57	P
2	2390.00	-2.12	61.21	59.09	74.00	-14.91	Peak	100	57	P
3	2412.00	-2.10	100.91	98.81	200.00	-101.19	Average	100	57	P
4	2412.00	-2.10	103.94	101.84	200.00	-98.16	Peak	100	57	P
5	4824.00	6.09	29.38	35.47	54.00	-18.53	Average	100	74	P
6	4824.00	6.09	41.16	47.25	74.00	-26.75	Peak	100	74	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz from PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 12, 11ax HE20 CH06		:

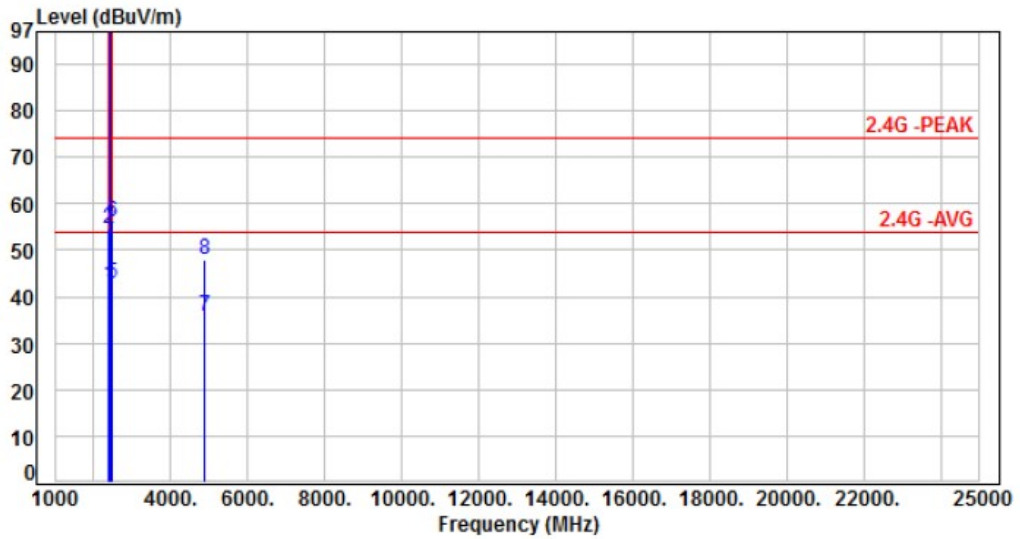


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	43.43	41.31	54.00	-12.69	Average	100	355	P
2	2390.00	-2.12	57.76	55.64	74.00	-18.36	Peak	100	355	P
3	2437.00	-2.07	114.02	111.95	200.00	-88.05	Average	100	355	P
4	2437.00	-2.07	118.81	116.74	200.00	-83.26	Peak	100	355	P
5	2483.50	-1.98	44.35	42.37	54.00	-11.63	Average	100	355	P
6	2483.50	-1.98	57.78	55.80	74.00	-18.20	Peak	100	355	P
7	4874.00	6.36	29.82	36.18	54.00	-17.82	Average	100	168	P
8	4874.00	6.36	41.74	48.10	74.00	-25.90	Peak	100	168	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz from PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 12, 11ax HE20 CH06		

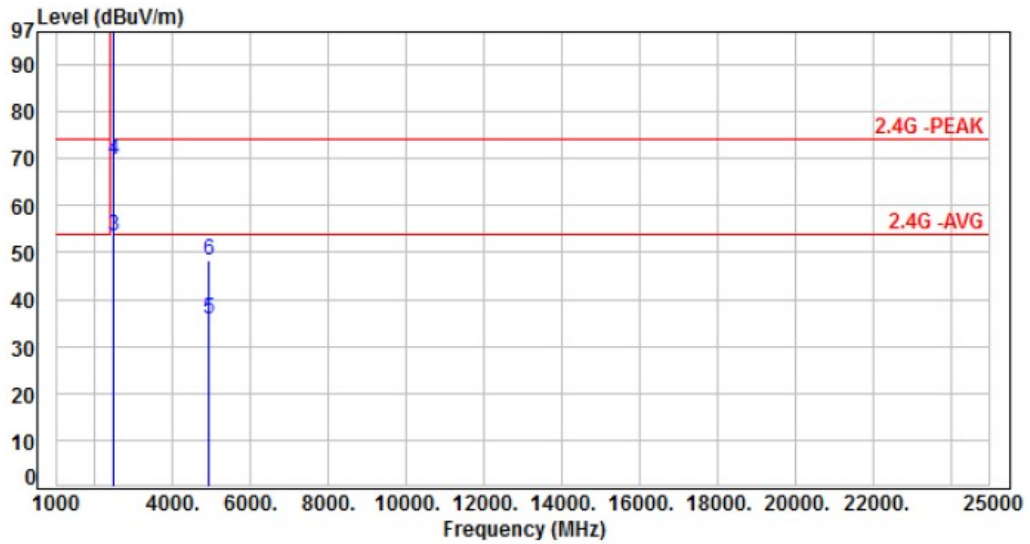


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	44.37	42.25	54.00	-11.75	Average	100	60	P
2	2390.00	-2.12	56.69	54.57	74.00	-19.43	Peak	100	60	P
3	2437.00	-2.07	102.63	100.56	200.00	-99.44	Average	100	60	P
4	2437.00	-2.07	106.12	104.05	200.00	-95.95	Peak	100	60	P
5	2483.50	-1.98	44.67	42.69	54.00	-11.31	Average	100	60	P
6	2483.50	-1.98	58.18	56.20	74.00	-17.80	Peak	100	60	P
7	4874.00	6.36	29.44	35.80	54.00	-18.20	Average	100	85	P
8	4874.00	6.36	41.52	47.88	74.00	-26.12	Peak	100	85	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz from PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 12, 11ax HE20 CH11		

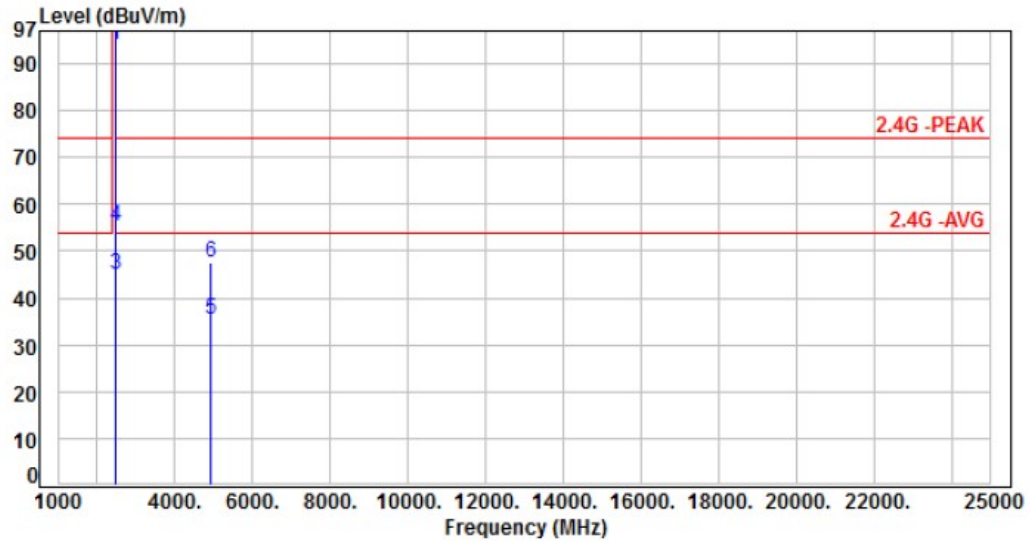


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	112.58	110.56	200.00	-89.44	Average	100	349	P
2	2462.00	-2.02	117.26	115.24	200.00	-84.76	Peak	100	349	P
3	2483.50	-1.98	55.30	53.32	54.00	-0.68	Average	100	349	P
4	2483.50	-1.98	71.83	69.85	74.00	-4.15	Peak	100	349	P
5	4924.00	6.48	29.31	35.79	54.00	-18.21	Average	100	158	P
6	4924.00	6.48	41.83	48.31	74.00	-25.69	Peak	100	158	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz from PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 12, 11ax HE20 CH11		

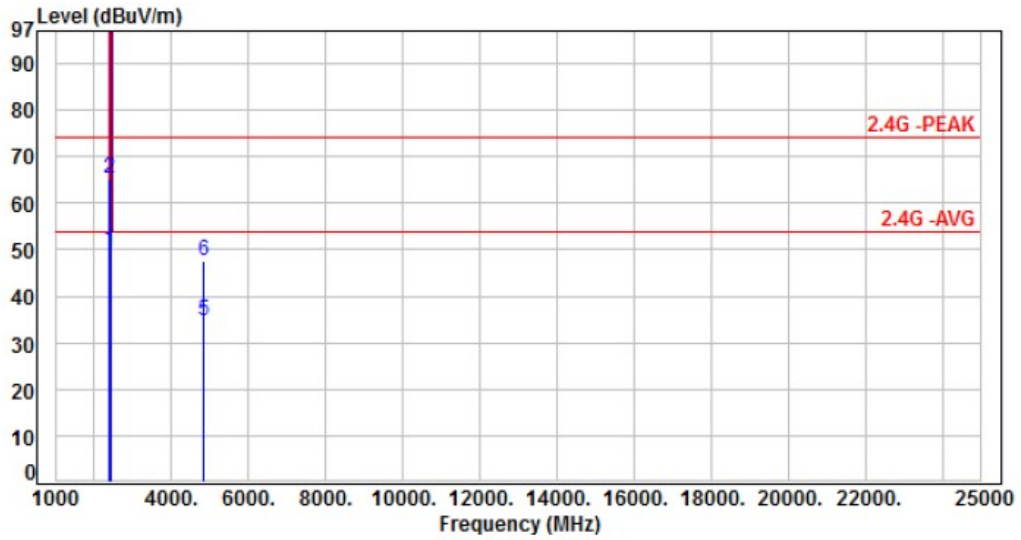


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2462.00	-2.02	96.12	94.10	200.00	-105.90	Average	100	56	P
2	2462.00	-2.02	100.81	98.79	200.00	-101.21	Peak	100	56	P
3	2483.50	-1.98	46.98	45.00	54.00	-9.00	Average	100	56	P
4	2483.50	-1.98	57.37	55.39	74.00	-18.61	Peak	100	56	P
5	4924.00	6.48	28.85	35.33	54.00	-18.67	Average	100	79	P
6	4924.00	6.48	41.05	47.53	74.00	-26.47	Peak	100	79	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz from PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 13, 11ax HE40 CH03		:

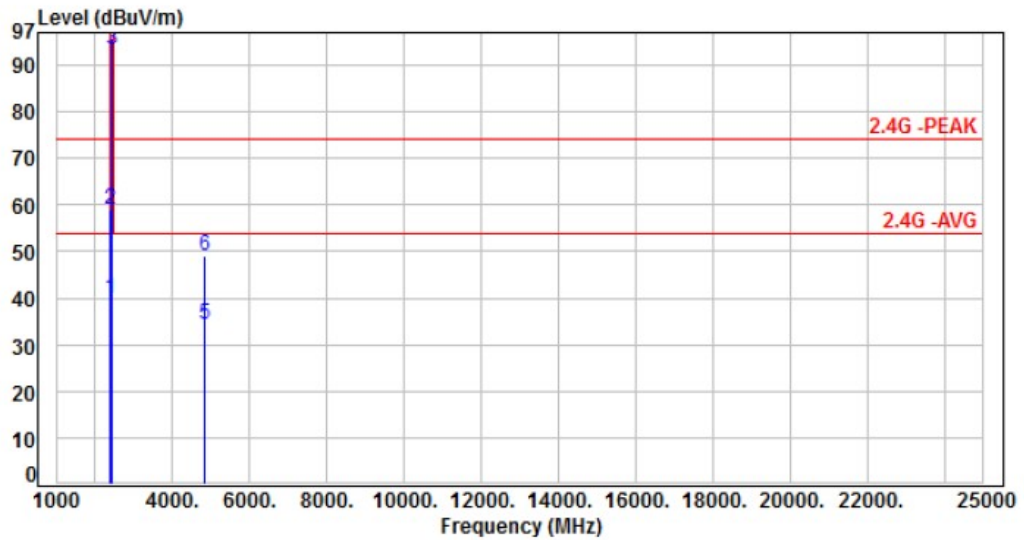


No.	Frequency (MHz)	Factor (dB)	Reading (dBUV)	Level (dBUV/m)	Limit (dBUV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	51.92	49.80	54.00	-4.20	Average	100	350	P
2	2390.00	-2.12	67.30	65.18	74.00	-8.82	Peak	100	350	P
3	2422.00	-2.08	109.07	106.99	200.00	-93.01	Average	100	350	P
4	2422.00	-2.08	111.72	109.64	200.00	-90.36	Peak	100	350	P
5	4844.00	6.23	28.48	34.71	54.00	-19.29	Average	100	178	P
6	4844.00	6.23	41.26	47.49	74.00	-26.51	Peak	100	178	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz from PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 13, 11ax HE40 CH03		

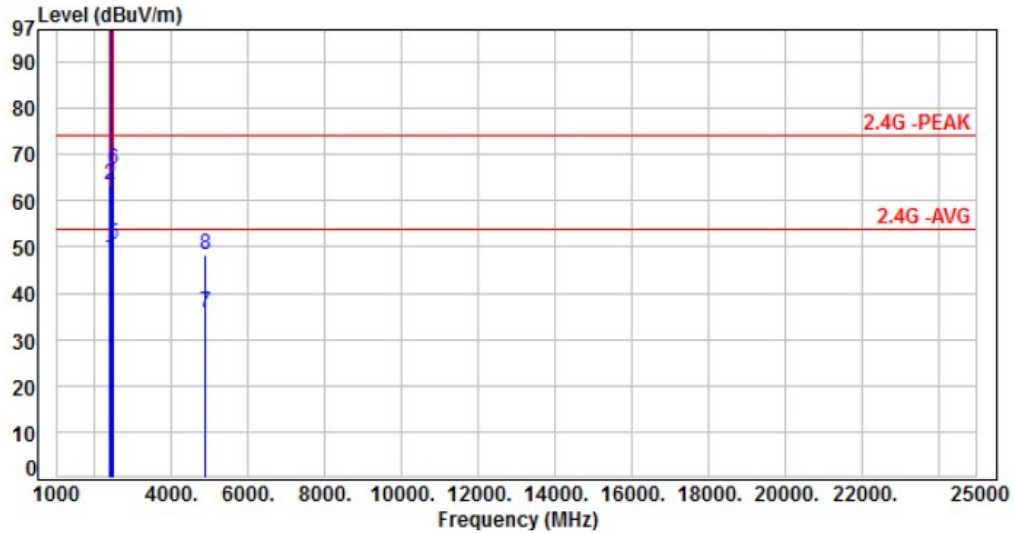


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	41.90	39.78	54.00	-14.22	Average	100	57	P
2	2390.00	-2.12	61.01	58.89	74.00	-15.11	Peak	100	57	P
3	2422.00	-2.08	95.23	93.15	200.00	-106.85	Average	100	57	P
4	2422.00	-2.08	98.08	96.00	200.00	-104.00	Peak	100	57	P
5	4844.00	6.23	28.19	34.42	54.00	-19.58	Average	100	88	P
6	4844.00	6.23	42.70	48.93	74.00	-25.07	Peak	100	88	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz from PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 13, 11ax HE40 CH06		

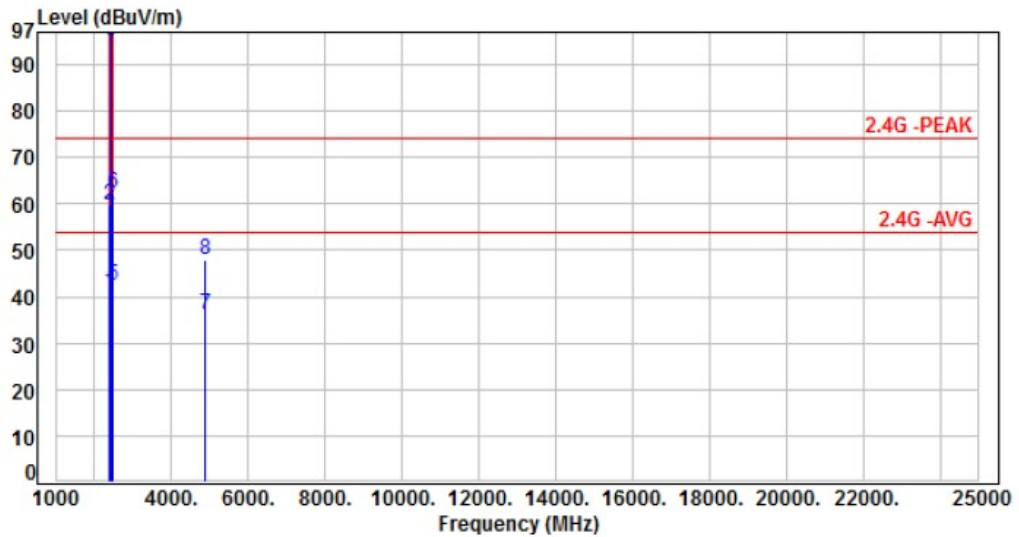


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	49.61	47.49	54.00	-6.51	Average	100	353	P
2	2390.00	-2.12	65.66	63.54	74.00	-10.46	Peak	100	353	P
3	2437.00	-2.07	110.71	108.64	200.00	-91.36	Average	100	353	P
4	2437.00	-2.07	112.96	110.89	200.00	-89.11	Peak	100	353	P
5	2483.50	-1.98	52.51	50.53	54.00	-3.47	Average	100	353	P
6	2483.50	-1.98	68.67	66.69	74.00	-7.31	Peak	100	353	P
7	4874.00	6.36	29.36	35.72	54.00	-18.28	Average	100	162	P
8	4874.00	6.36	41.95	48.31	74.00	-25.69	Peak	100	162	P

Note: Level=Reading+Factor
Margin=Level-Limit
Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz from PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 13, 11ax HE40 CH06		

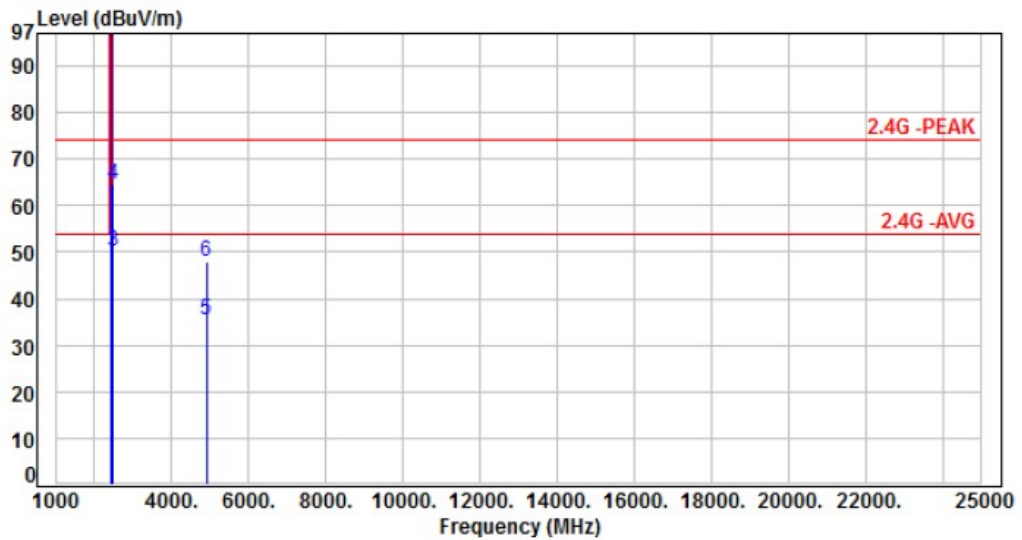


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2390.00	-2.12	43.15	41.03	54.00	-12.97	Average	100	54	P
2	2390.00	-2.12	61.95	59.83	74.00	-14.17	Peak	100	54	P
3	2437.00	-2.07	97.13	95.06	200.00	-104.94	Average	100	54	P
4	2437.00	-2.07	99.93	97.86	200.00	-102.14	Peak	100	54	P
5	2483.50	-1.98	44.27	42.29	54.00	-11.71	Average	100	54	P
6	2483.50	-1.98	64.15	62.17	74.00	-11.83	Peak	100	54	P
7	4874.00	6.36	29.87	36.23	54.00	-17.77	Average	100	74	P
8	4874.00	6.36	41.65	48.01	74.00	-25.99	Peak	100	74	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz from PoE	Pol/Phase	: VERTICAL
Test Mode	: Mode 13, 11ax HE40 CH09		

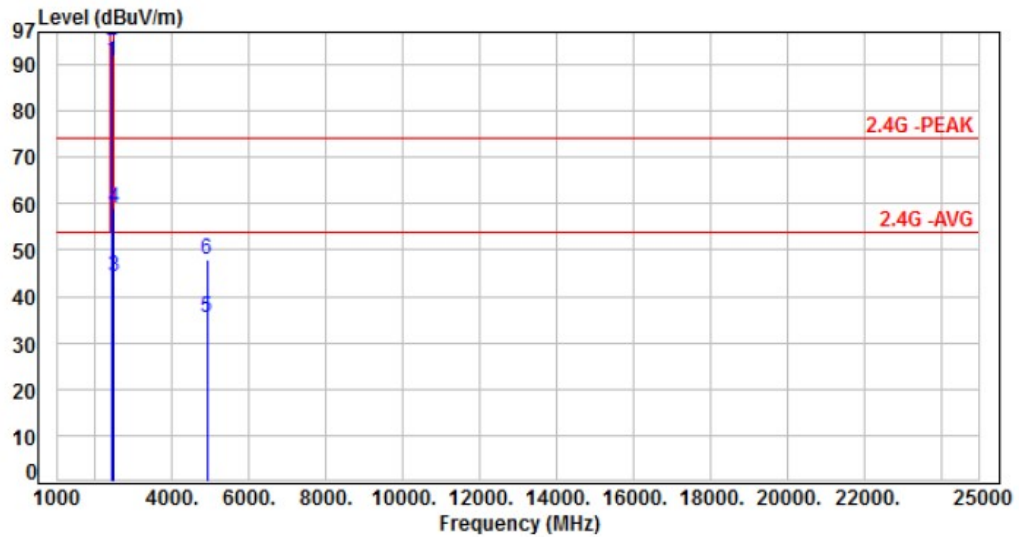


No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	107.41	105.36	200.00	-94.64	Average	100	351	P
2	2452.00	-2.05	110.06	108.01	200.00	-91.99	Peak	100	351	P
3	2483.50	-1.98	52.24	50.26	54.00	-3.74	Average	100	351	P
4	2483.50	-1.98	66.65	64.67	74.00	-9.33	Peak	100	351	P
5	4904.00	6.46	29.07	35.53	54.00	-18.47	Average	100	166	P
6	4904.00	6.46	41.36	47.82	74.00	-26.18	Peak	100	166	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



Power	: AC 120V / 60Hz from PoE	Pol/Phase	: HORIZONTAL
Test Mode	: Mode 13, 11ax HE40 CH09		



No.	Frequency (MHz)	Factor (dB)	Reading (dBuV)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	Height (cm)	Azimuth (deg)	P/F
1	2452.00	-2.05	92.72	90.67	200.00	-109.33	Average	100	62	P
2	2452.00	-2.05	97.19	95.14	200.00	-104.86	Peak	100	62	P
3	2483.50	-1.98	46.09	44.11	54.00	-9.89	Average	100	62	P
4	2483.50	-1.98	61.05	59.07	74.00	-14.93	Peak	100	62	P
5	4904.00	6.46	28.85	35.31	54.00	-18.69	Average	100	80	P
6	4904.00	6.46	41.61	48.07	74.00	-25.93	Peak	100	80	P

Note: Level=Reading+Factor
 Margin=Level-Limit
 Factor=Antenna Factor + cable loss - Amplifier Factor



6.7 Restricted Bands of Operation

Only spurious emissions are permitted in any of the frequency bands listed below:

MHz	MHz	MHz	GHz
0.09000 – 0.11000	16.42000 – 16.42300	399.9 – 410.0	4.500 – 5.250
0.49500 – 0.505**	16.69475 – 16.69525	608.0 – 614.0	5.350 – 5.460
2.17350 – 2.19050	16.80425 – 16.80475	960.0 – 1240.0	7.250 – 7.750
4.12500 – 4.12800	25.50000 – 25.67000	1300.0 – 1427.0	8.025 – 8.500
4.17725 – 4.17775	37.50000 – 38.25000	1435.0 – 1626.5	9.000 – 9.200
4.20725 – 4.20775	73.00000 – 74.60000	1645.5 – 1646.5	9.300 – 9.500
6.21500 – 6.21800	74.80000 – 75.20000	1660.0 – 1710.0	10.600 – 12.700
6.26775 – 6.26825	108.00000 – 121.94000	1718.8 – 1722.2	13.250 – 13.400
6.31175 – 6.31225	123.00000 – 138.00000	2200.0 – 2300.0	14.470 – 14.500
8.29100 – 8.29400	149.90000 – 150.05000	2310.0 – 2390.0	15.350 – 16.200
8.36200 – 8.36600	156.52475 – 156.52525	2483.5 – 2500.0	17.700 – 21.400
8.37625 – 8.38675	156.70000 – 156.90000	2655.0 – 2900.0	22.010 – 23.120
8.41425 – 8.41475	162.01250 – 167.17000	3260.0 – 3267.0	23.600 – 24.000
12.29000 – 12.29300	167.72000 – 173.20000	3332.0 – 3339.0	31.200 – 31.800
12.51975 – 12.52025	240.00000 – 285.00000	3345.8 – 3358.0	36.430 – 36.500
12.57675 – 12.57725	322.00000 – 335.40000	3600.0 – 4400.0	Above 38.6
13.36000 – 13.41000			

** : Until February 1, 1999, this restricted band shall be 0.490-0.510 MHz



7. Test of Conducted Spurious Emission

7.1 Test Limit

According to the methods defined in ANSI C63.10-2013 Section 11.11.1

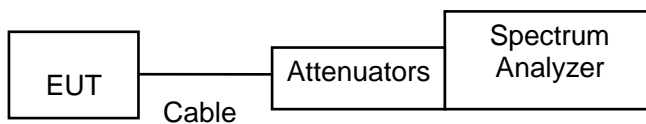
Below -30dB of the highest emission level of operating band (In 100 kHz Resolution Bandwidth)

7.2 Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 11.11.2 & 11.11.3

- The transmitter output was connected to the spectrum analyzer via a low loss cable.
- Set RBW of spectrum analyzer to 100 KHz and VBW of spectrum analyzer to 300 KHz with convenient frequency span including 100 KHz bandwidth from band edge.
- Peak conducted output power measured within any 100 kHz outside the authorized frequency band shall be attenuated by at least 30dB relative to the maximum measured in-band peak PSD level.
- The band edges was measured and recorded.

7.3 Test Setup Layout



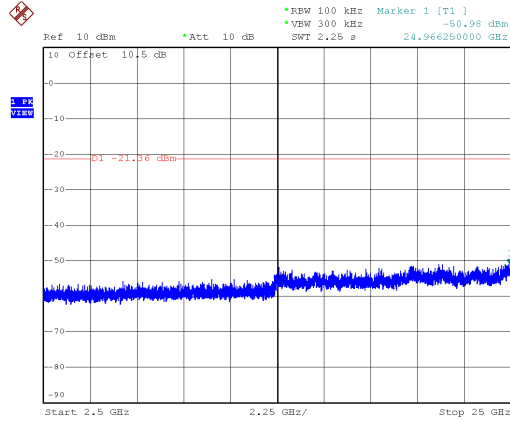
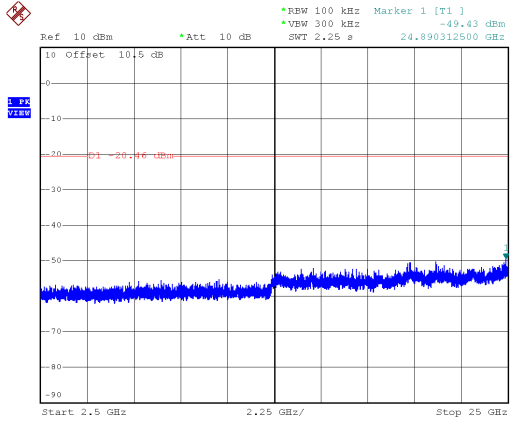
7.4 Test Result and Data

Note: Test plots refers to the following pages.



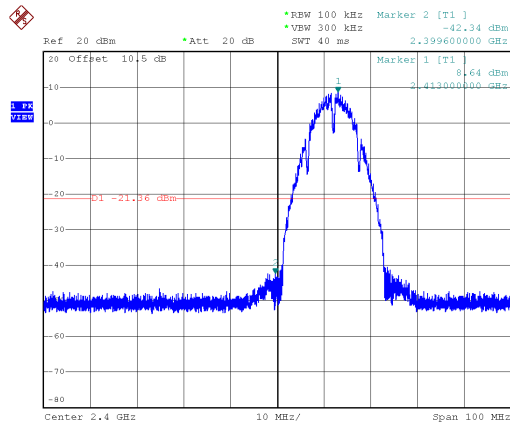
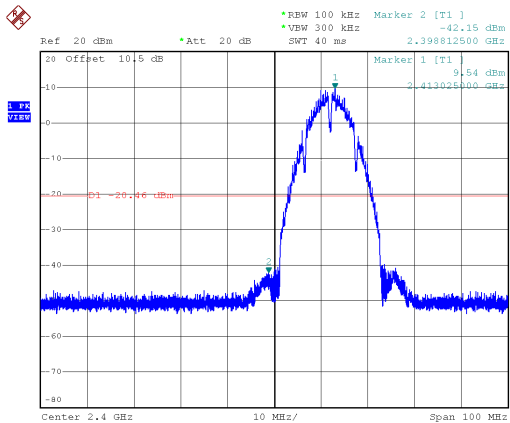
Non-Beamforming
Modulation Type: 802.11b CH01
ANT A

ANT B



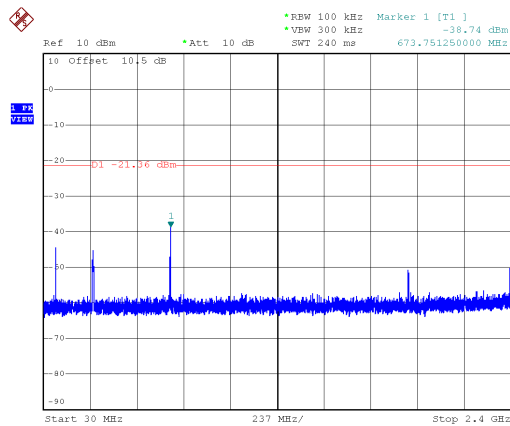
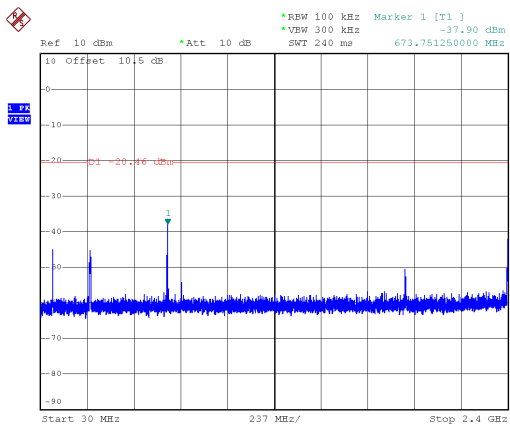
Date: 20.SEP.2023 18:47:14

Date: 20.SEP.2023 18:49:53



Date: 20.SEP.2023 18:46:27

Date: 20.SEP.2023 18:49:05



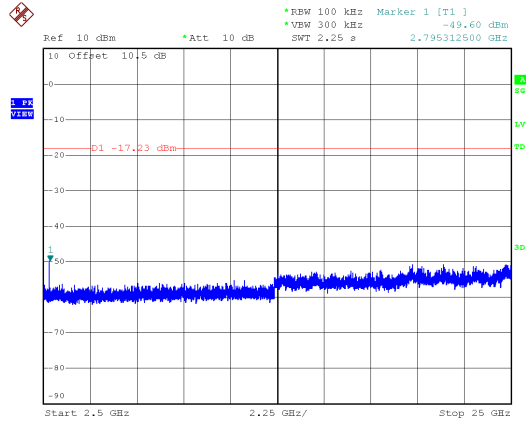
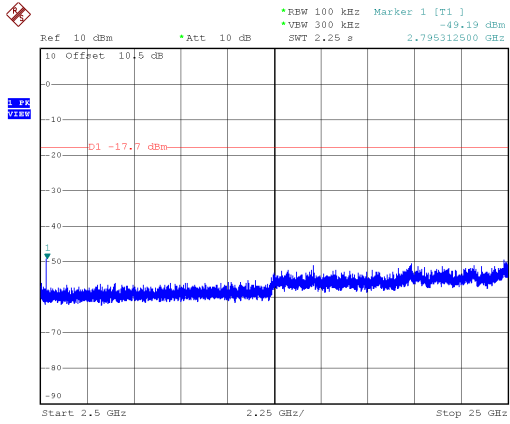
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Date: 20.SEP.2023 18:49:29



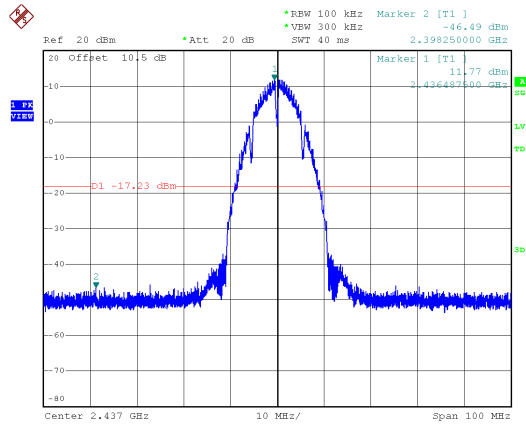
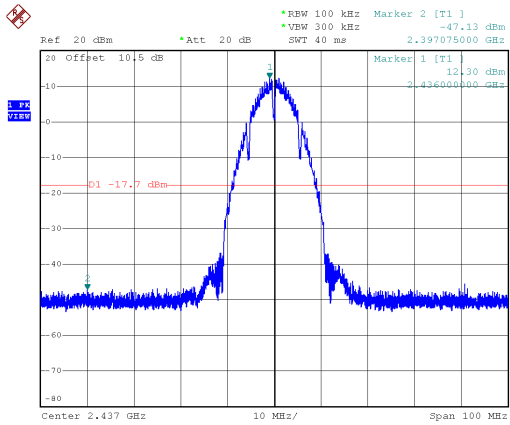
Non-Beamforming
Modulation Type: 802.11b CH06
ANT A

ANT B



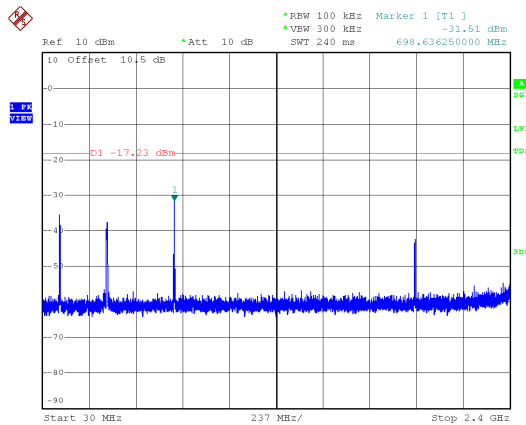
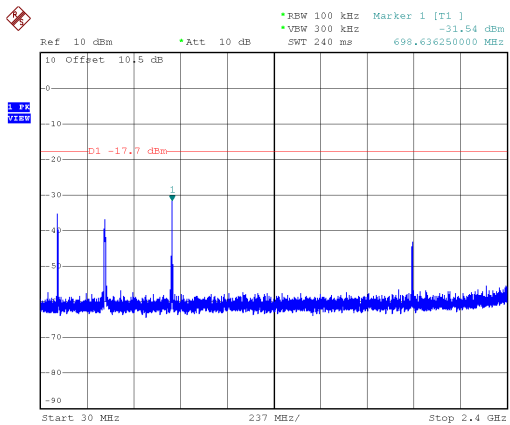
Date: 20.SEP.2023 20:17:48

Date: 20.SEP.2023 20:20:26



Date: 20.SEP.2023 20:17:02

Date: 20.SEP.2023 20:19:39



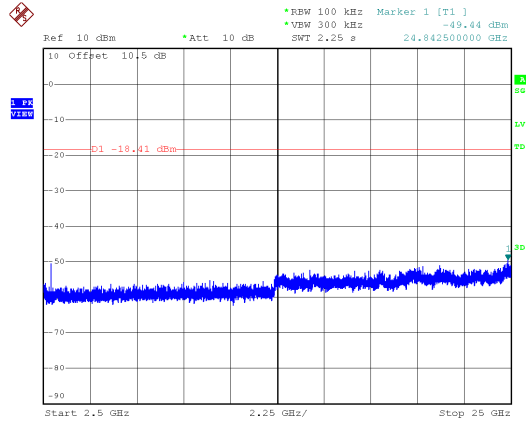
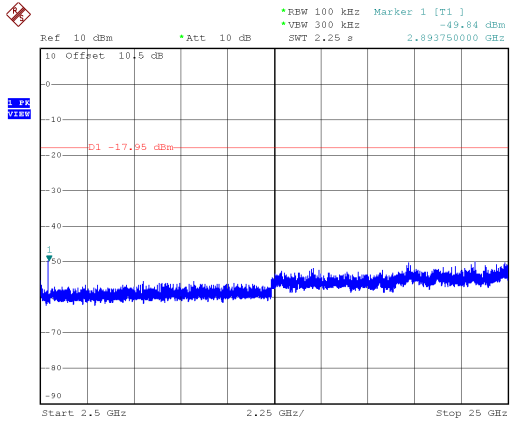
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Date: 20.SEP.2023 20:20:03



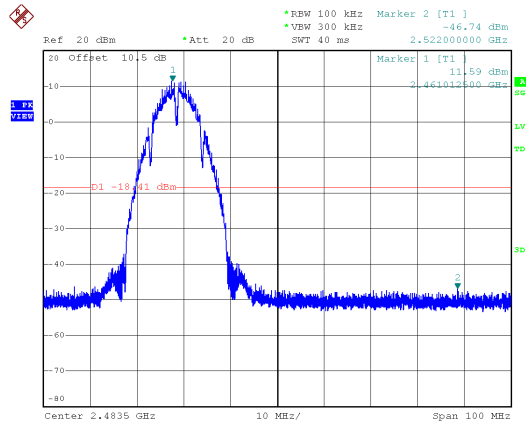
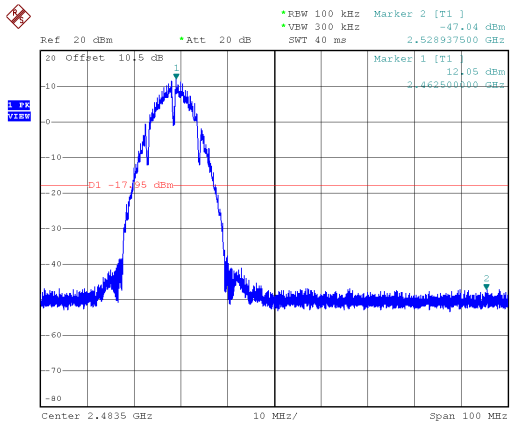
Non-Beamforming
Modulation Type: 802.11b CH11
ANT A

ANT B



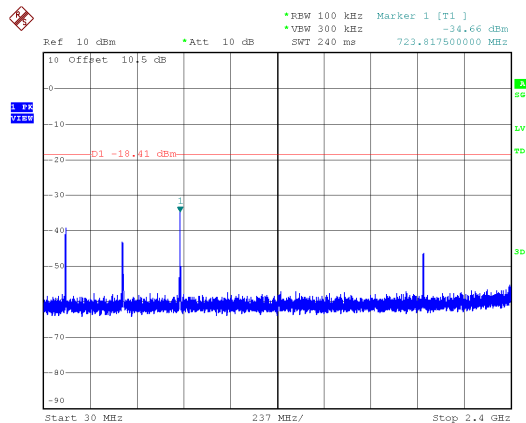
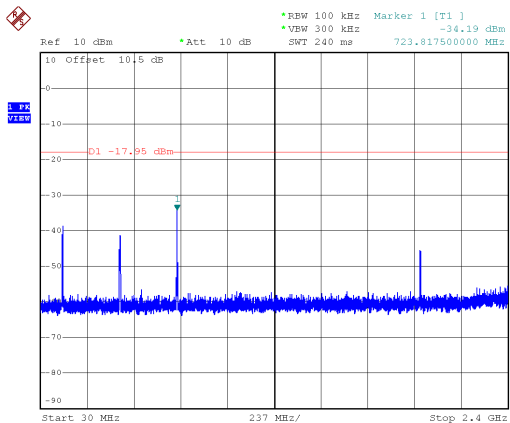
Date: 20.SEP.2023 20:40:49

Date: 20.SEP.2023 20:43:27



Date: 20.SEP.2023 20:40:02

Date: 20.SEP.2023 20:42:41



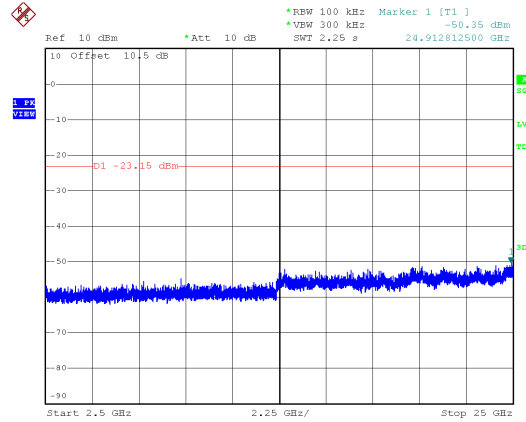
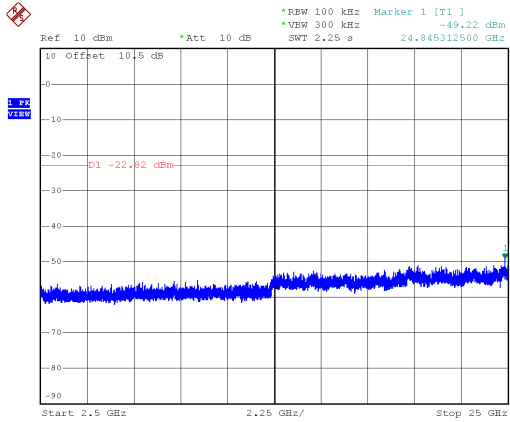
Date: 20.SEP.2023 20:40:26

Date: 20.SEP.2023 20:43:04



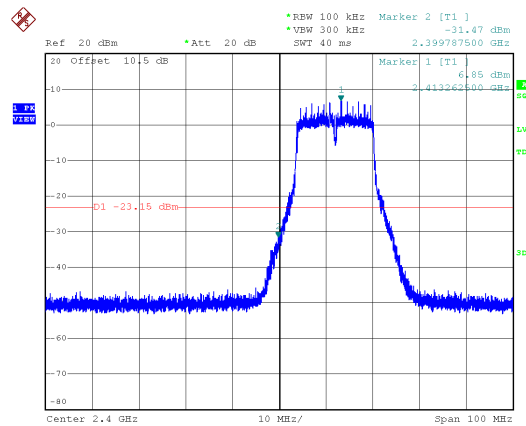
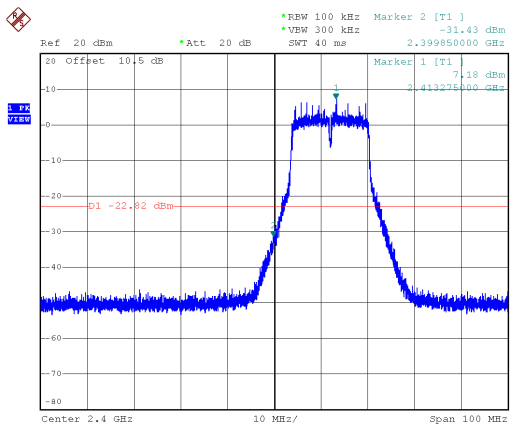
Non-Beamforming
Modulation Type: 802.11g CH01
ANT A

ANT B



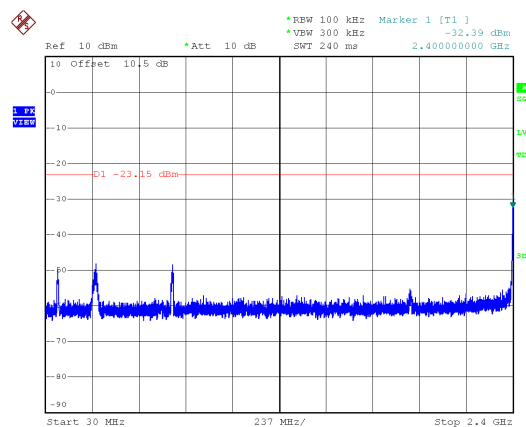
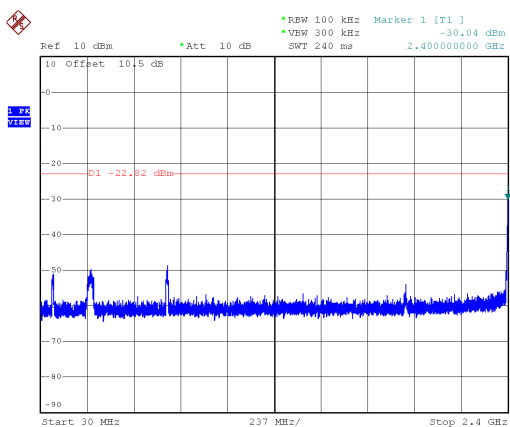
Date: 20.SEP.2023 21:20:40

Date: 20.SEP.2023 21:23:18



Date: 20.SEP.2023 21:19:54

Date: 20.SEP.2023 21:22:32

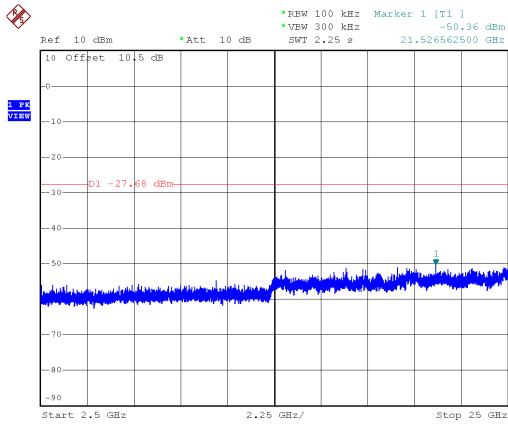


Date: 20.SEP.2023 21:20:17

Date: 20.SEP.2023 21:22:55

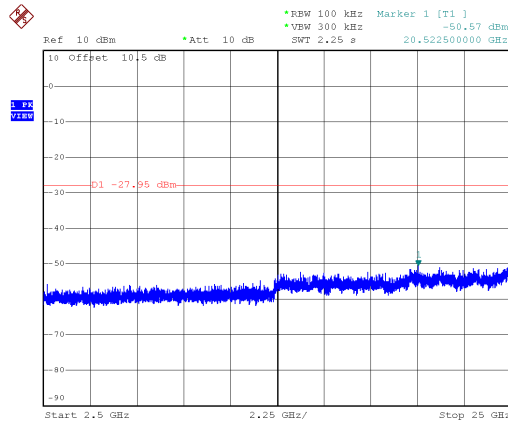


Non-Beamforming
Modulation Type: 802.11g CH06
ANT A

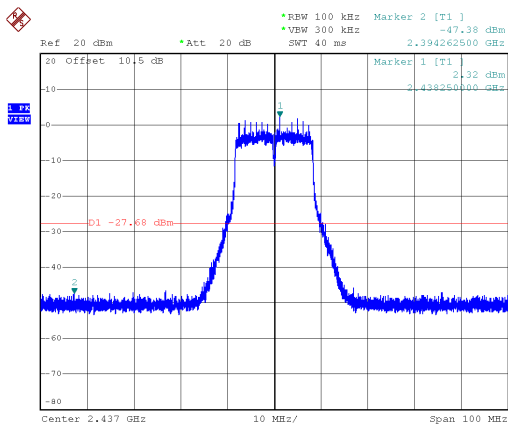


Date: 20.SEP.2023 21:45:03

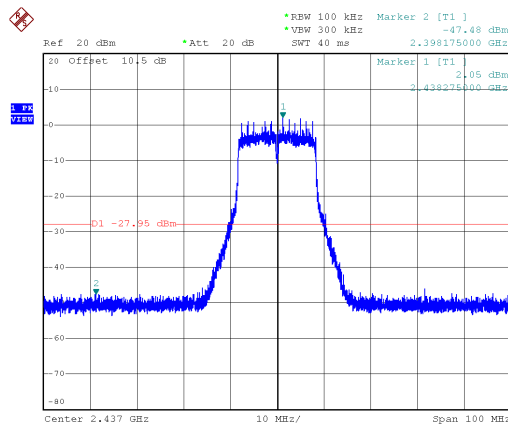
ANT B



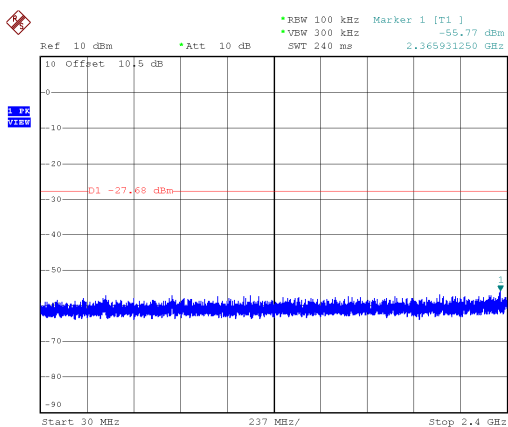
Date: 20.SEP.2023 21:47:40



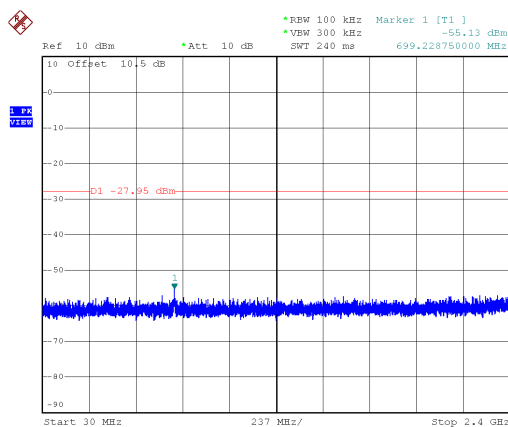
Date: 20.SEP.2023 21:44:17



Date: 20.SEP.2023 21:46:54



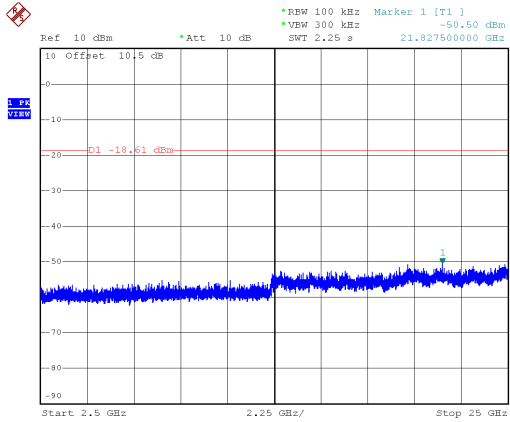
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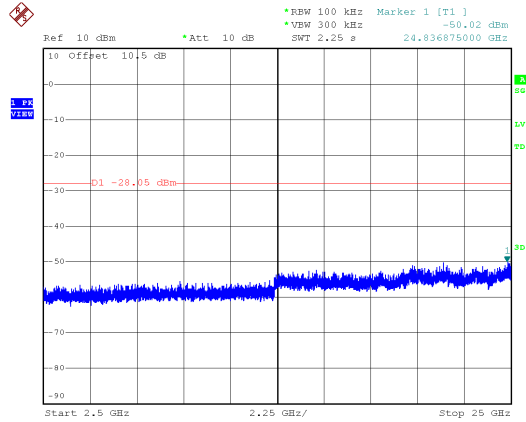


Non-Beamforming
Modulation Type: 802.11g CH11
ANT A

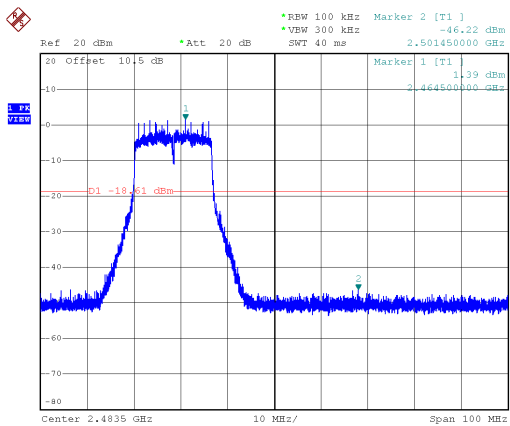


Date: 20.SEP.2023 22:04:19

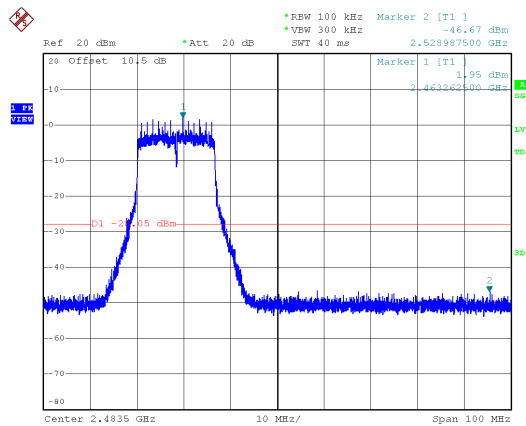
ANT B



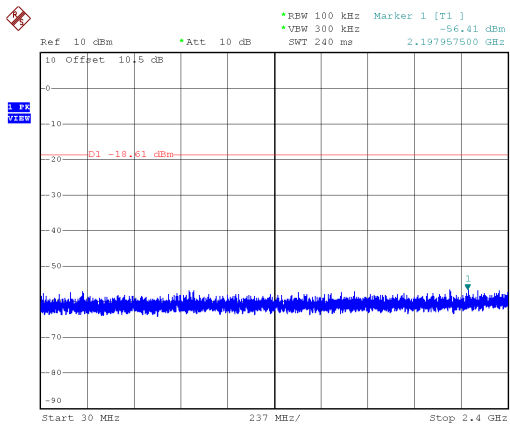
Date: 20.SEP.2023 22:06:57



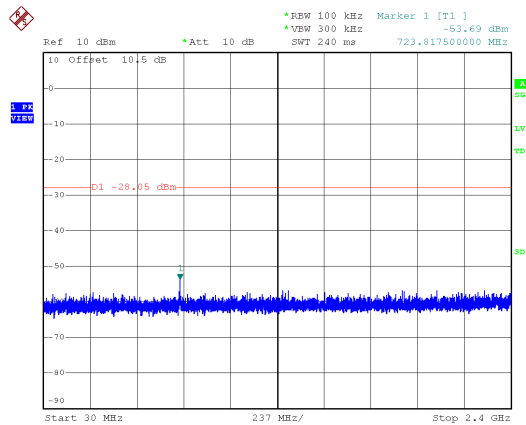
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Date: 20.SEP.2023 22:06:10



Date: 20.SEP.2023 22:03:56

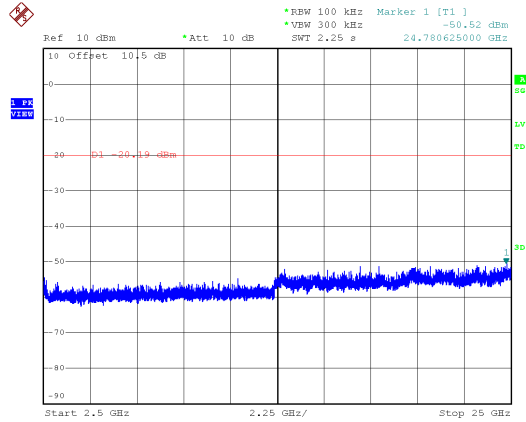
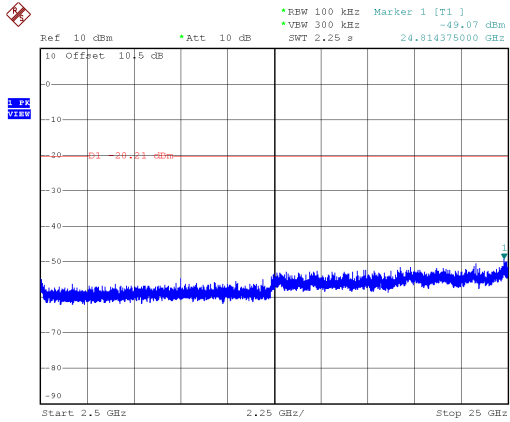


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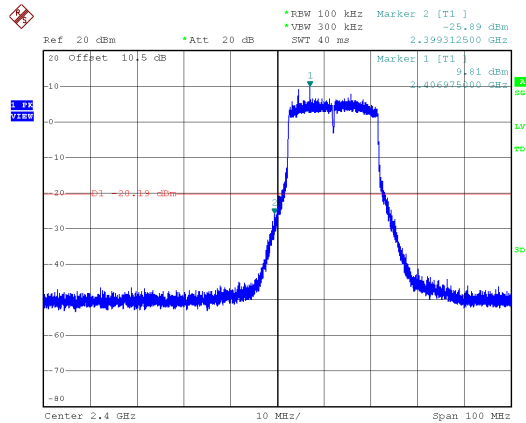
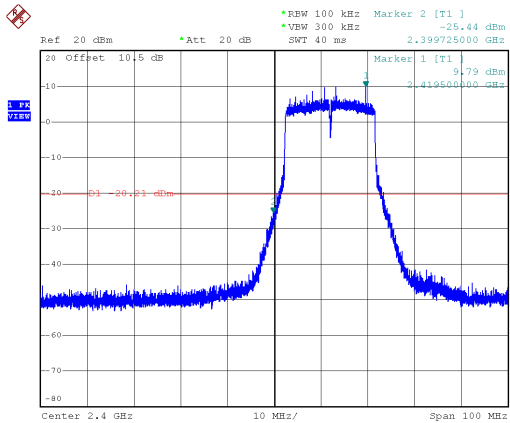
Non-Beamforming
Modulation Type: 802.11ax HE20 CH01
ANT A

ANT B



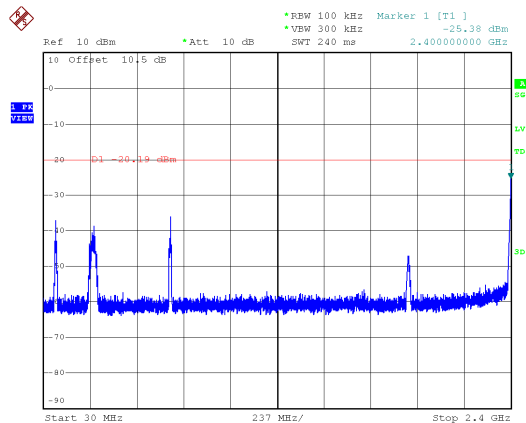
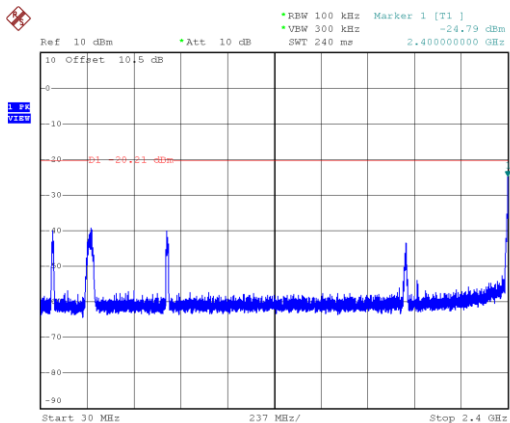
Date: 21.SEP.2023 10:11:09

Date: 21.SEP.2023 10:14:13



Date: 21.SEP.2023 10:10:23

Date: 21.SEP.2023 10:13:26



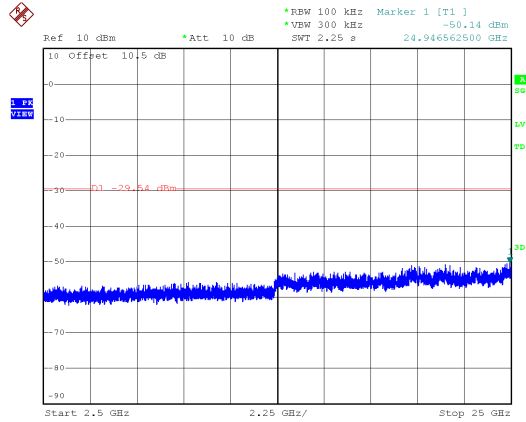
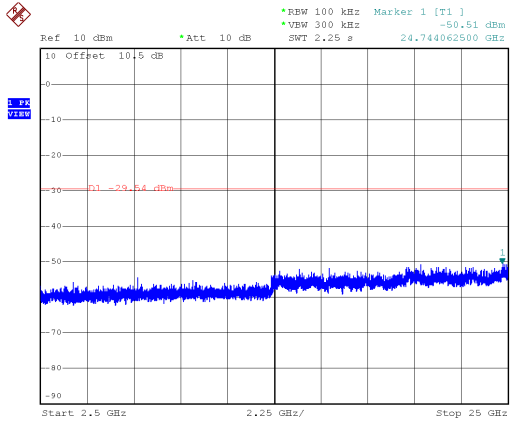
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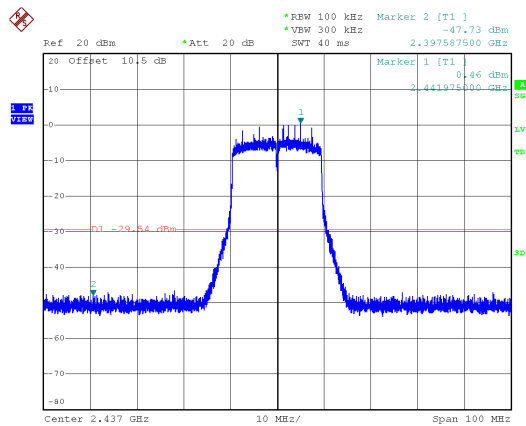
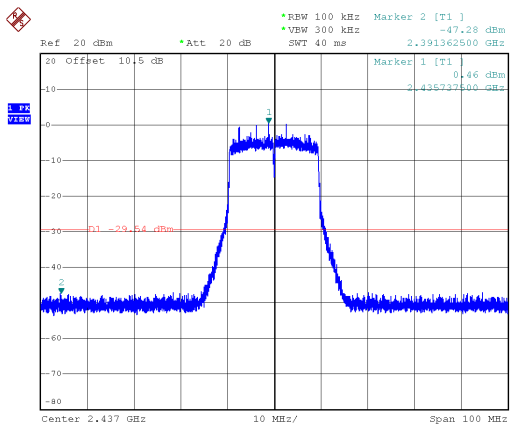
Non-Beamforming
Modulation Type: 802.11ax HE20 CH06
ANT A

ANT B



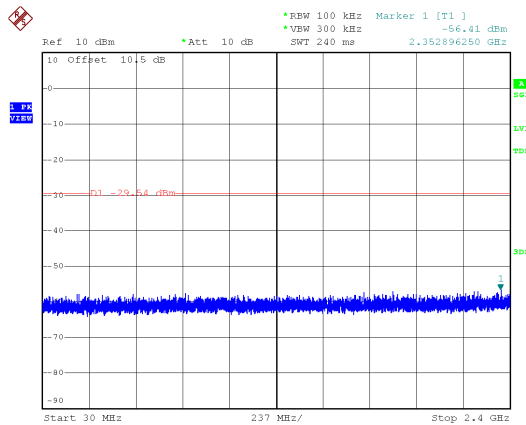
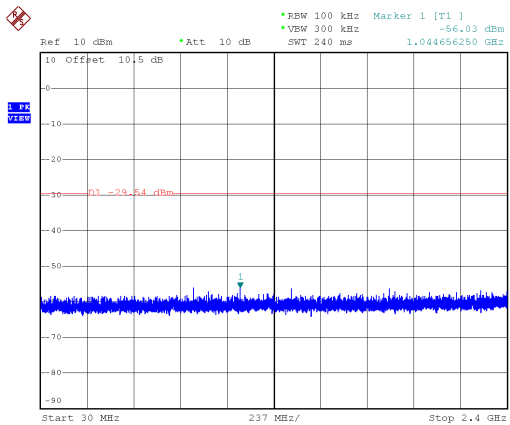
Date: 21.SEP.2023 10:36:40

Date: 21.SEP.2023 10:39:19



Date: 21.SEP.2023 10:35:54

Date: 21.SEP.2023 10:38:32



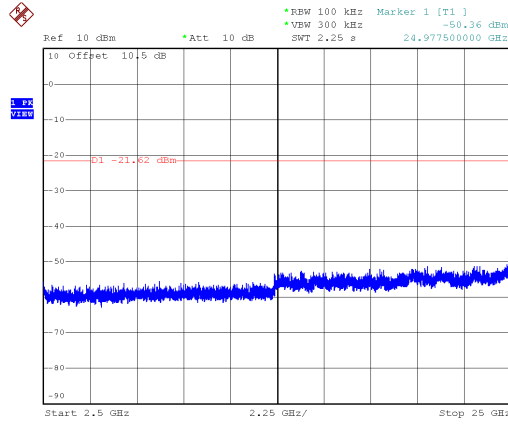
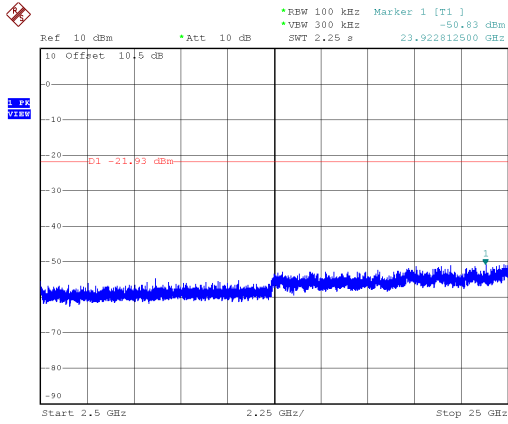
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Date: 21.SEP.2023 10:38:56



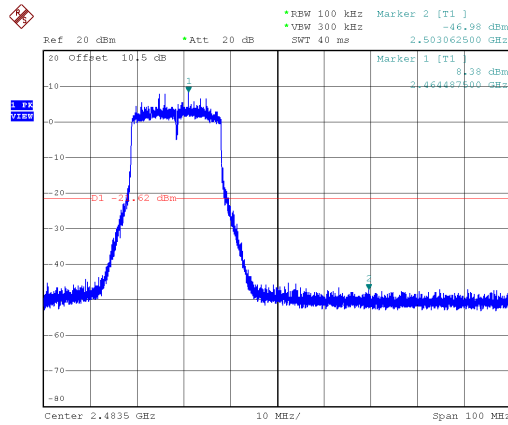
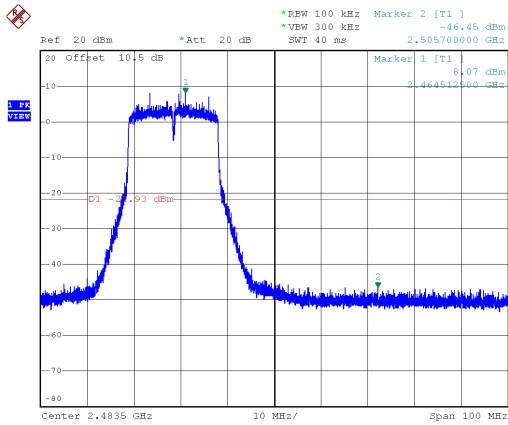
Non-Beamforming
Modulation Type: 802.11ax HE20 CH11
ANT A

ANT B



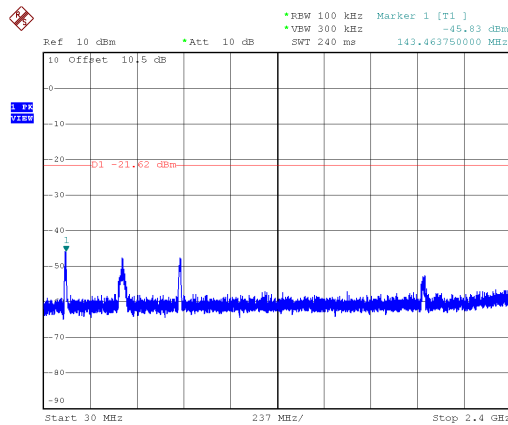
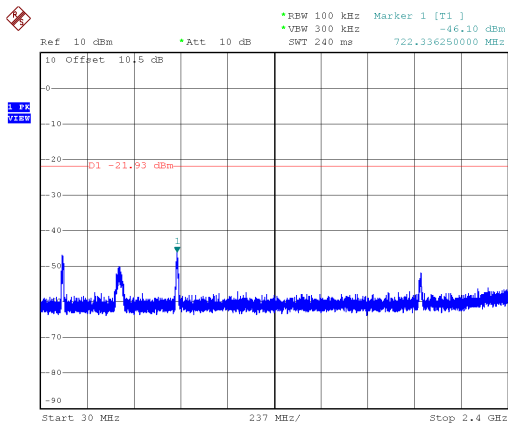
Date: 21.SEP.2023 11:04:46

Date: 21.SEP.2023 11:07:25



Date: 21.SEP.2023 11:04:00

Date: 21.SEP.2023 11:06:39



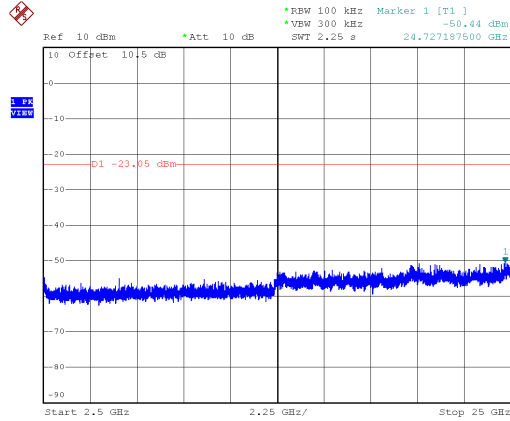
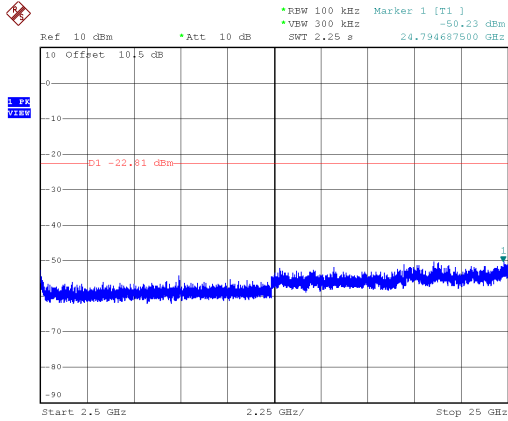
Date: 21.SEP.2023 11:04:23

Date: 21.SEP.2023 11:07:02



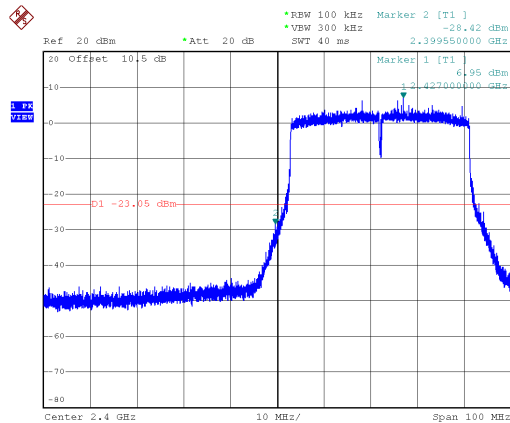
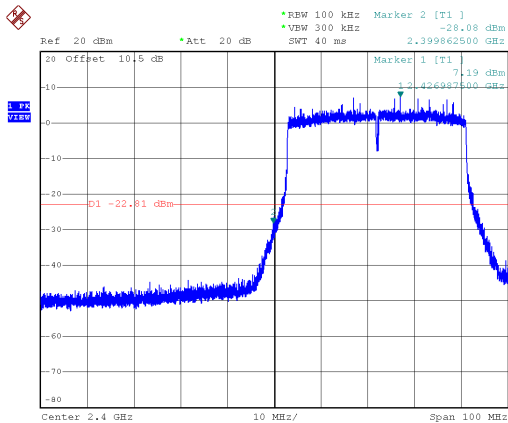
Non-Beamforming
Modulation Type: 802.11ax HE40 CH03
ANT A

ANT B



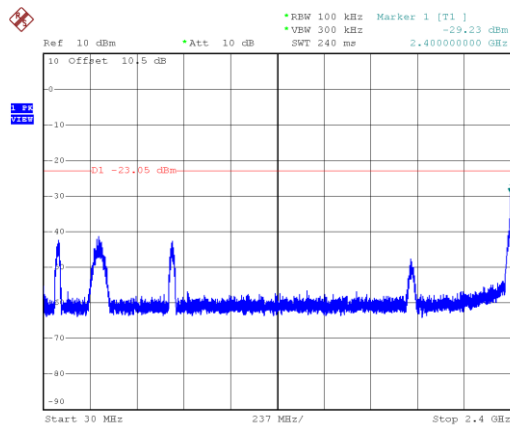
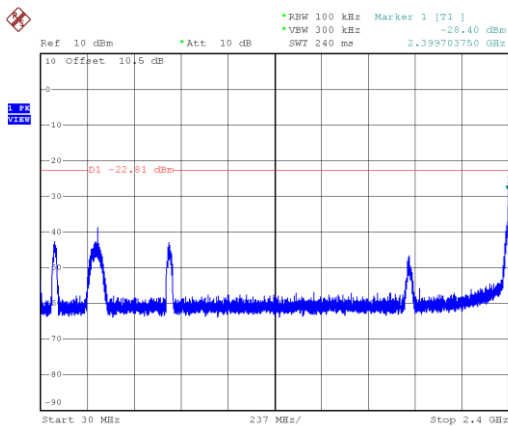
Date: 21.SEP.2023 12:13:41

Date: 21.SEP.2023 12:16:21



Date: 21.SEP.2023 12:12:55

Date: 21.SEP.2023 12:15:34



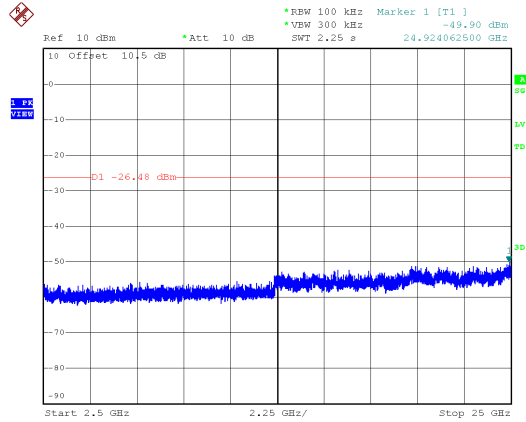
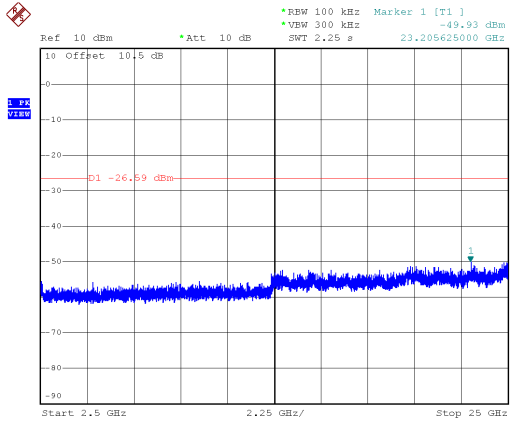
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Date: 21.SEP.2023 12:15:57



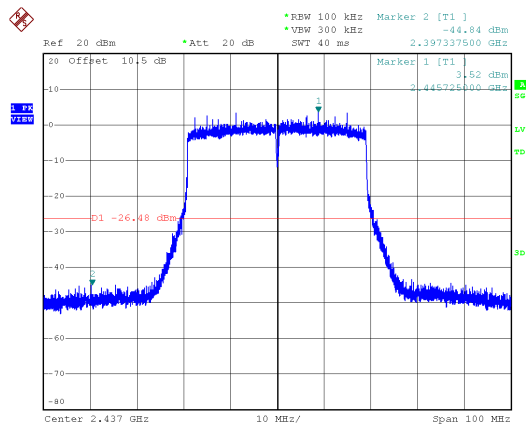
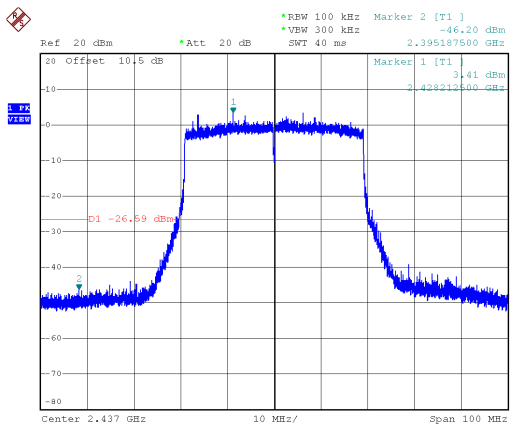
Non-Beamforming
Modulation Type: 802.11ax HE40 CH06
ANT A

ANT B



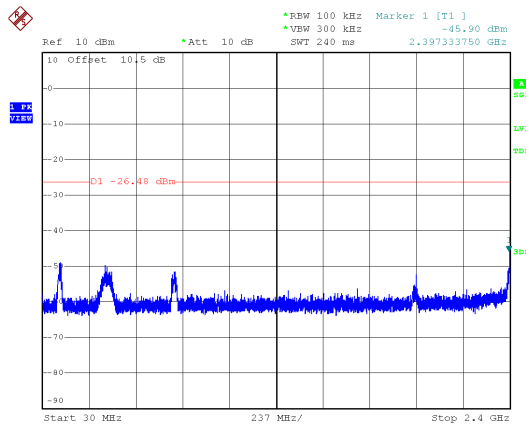
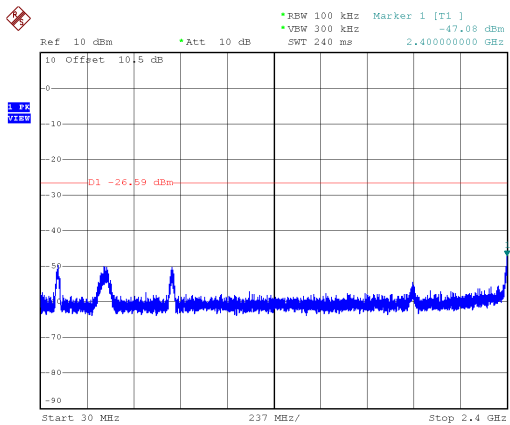
Date: 21.SEP.2023 12:28:29

Date: 21.SEP.2023 12:31:08



Date: 21.SEP.2023 12:27:42

Date: 21.SEP.2023 12:30:21



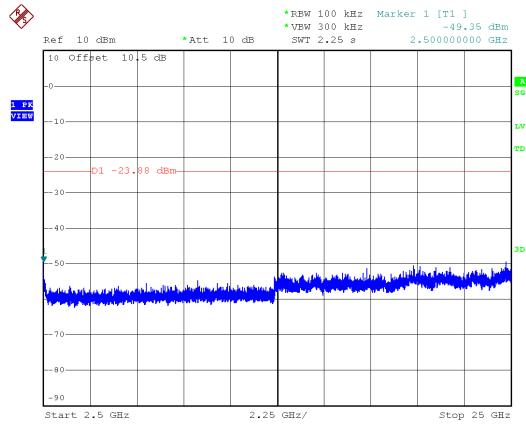
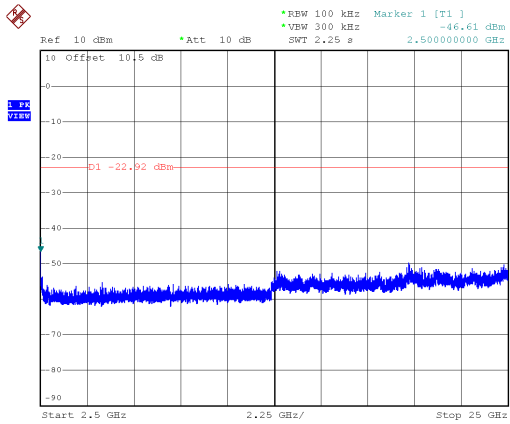
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Date: 21.SEP.2023 12:30:45



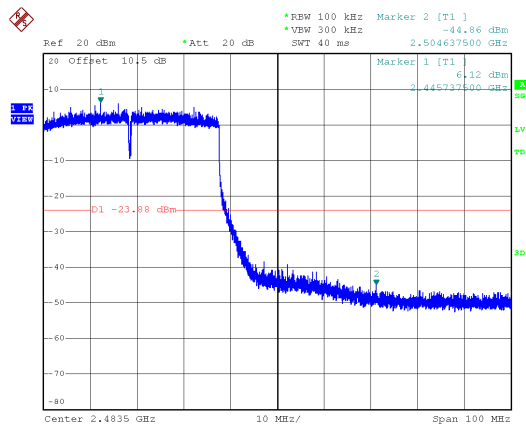
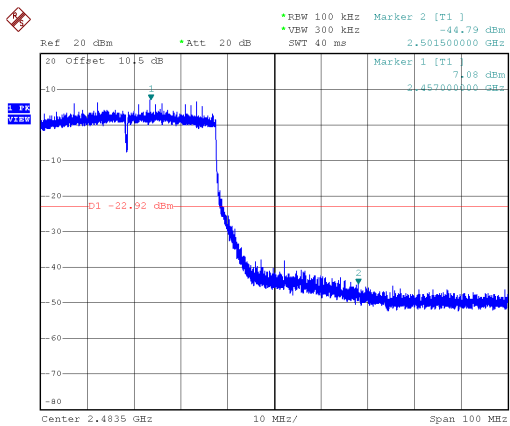
Beamforming
Modulation Type: 802.11ax HE40 CH09
ANT A

ANT B



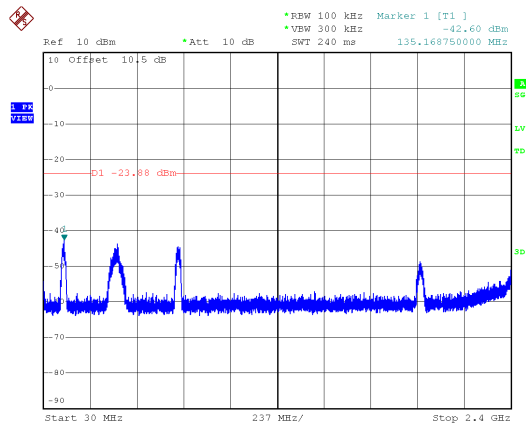
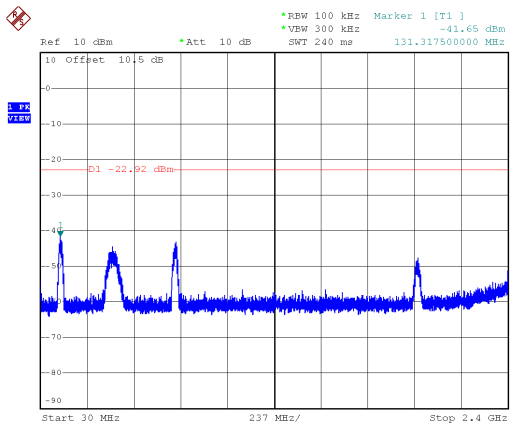
Date: 22.SEP.2023 17:26:54

Date: 22.SEP.2023 17:28:05



Date: 22.SEP.2023 17:26:07

Date: 22.SEP.2023 17:27:18



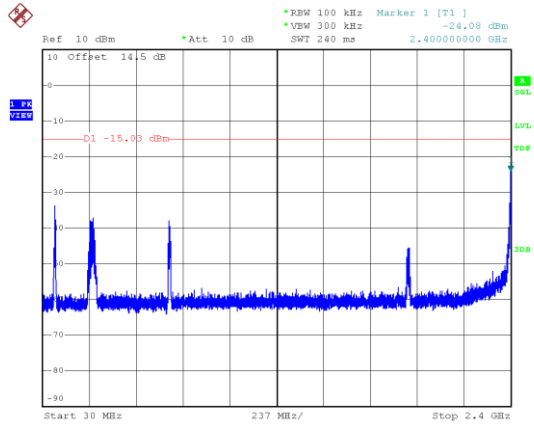
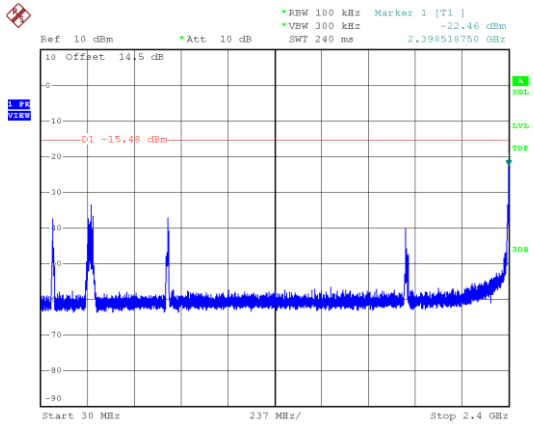
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Date: 22.SEP.2023 17:27:41



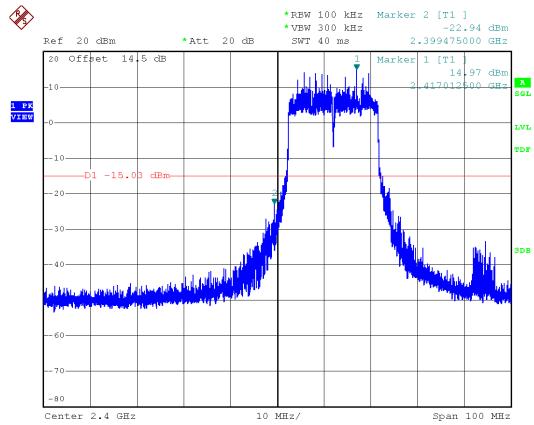
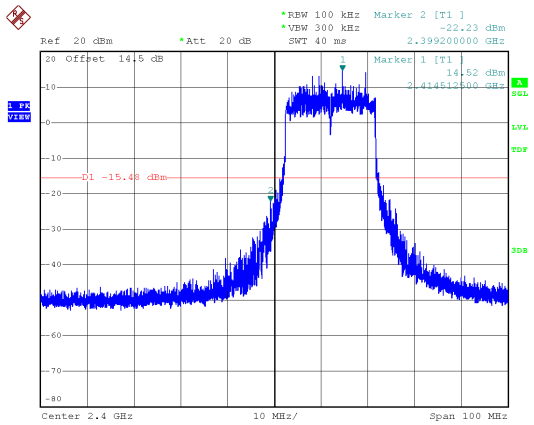
Beamforming
Modulation Type: 802.11ax HE20 CH01
ANT A

ANT B



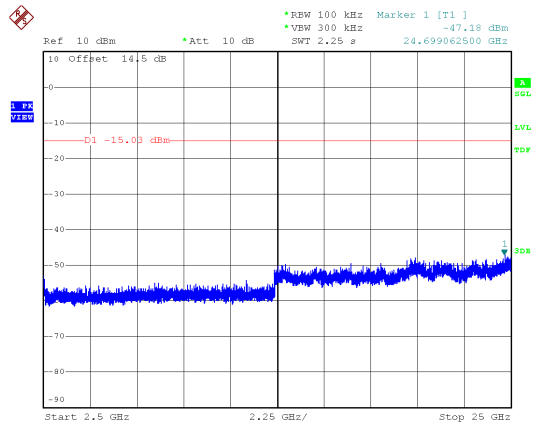
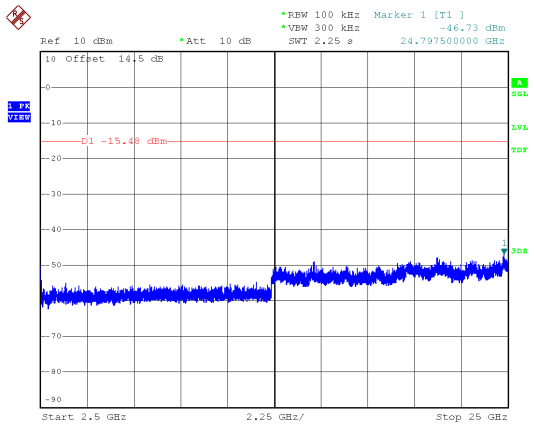
Date: 21.SEP.2023 17:24:03

Date: 21.SEP.2023 17:25:36



Date: 21.SEP.2023 17:23:39

Date: 21.SEP.2023 17:25:13



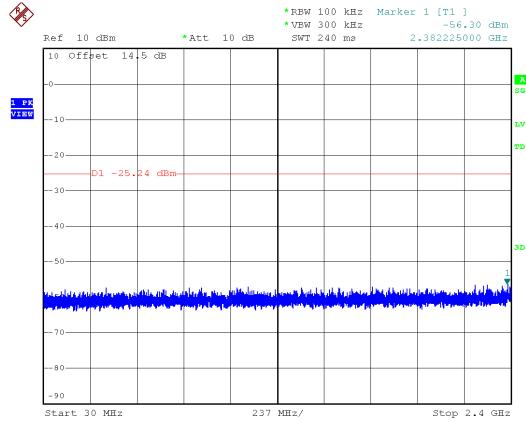
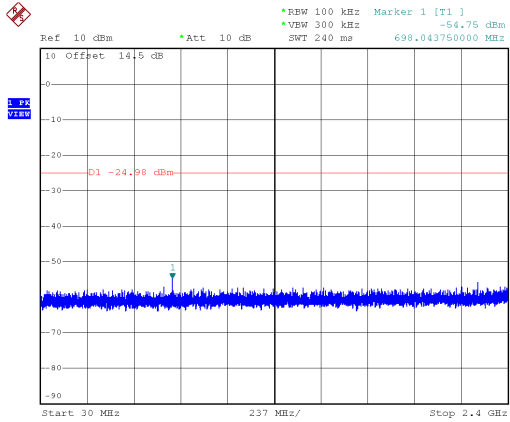
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Date: 21.SEP.2023 17:26:00



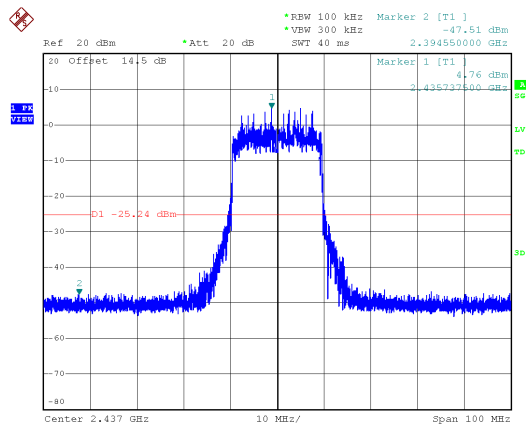
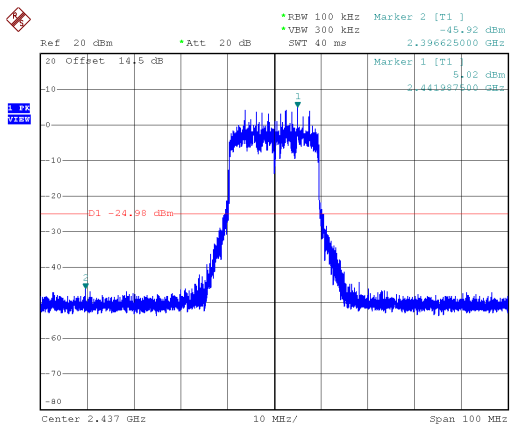
Beamforming
Modulation Type: 802.11ax HE20 CH06
ANT A

ANT B



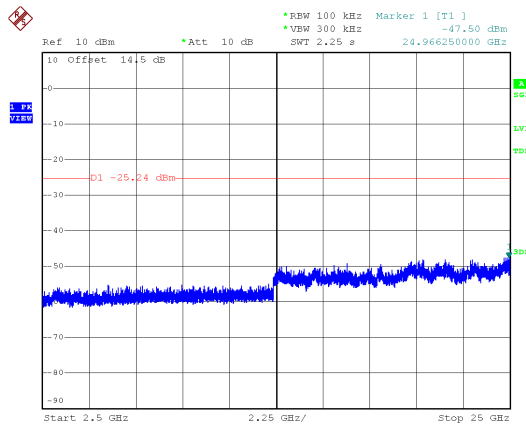
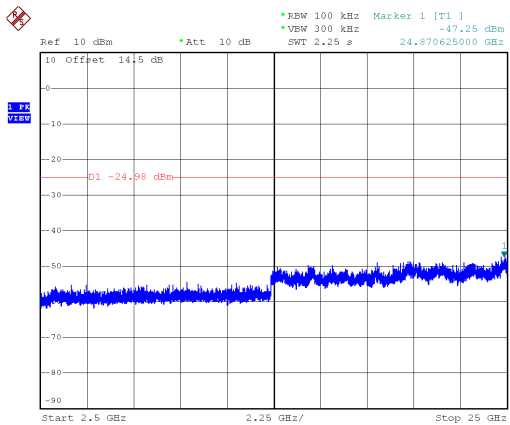
Date: 21.SEP.2023 18:32:18

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Date: 21.SEP.2023 18:31:54

Date: 21.SEP.2023 18:33:29



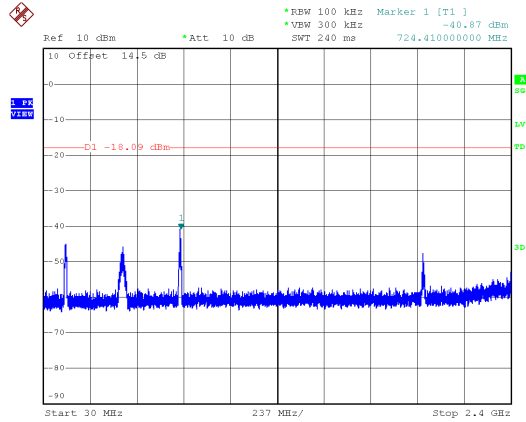
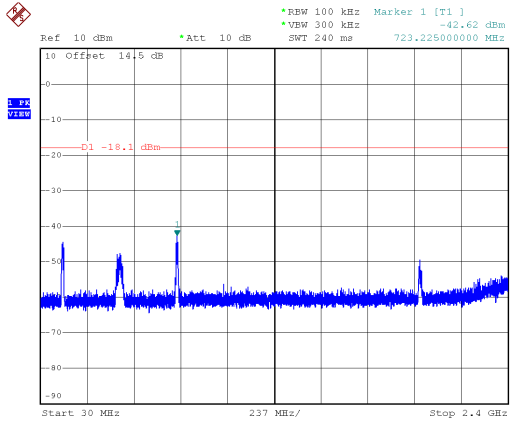
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Date: 21.SEP.2023 18:34:17



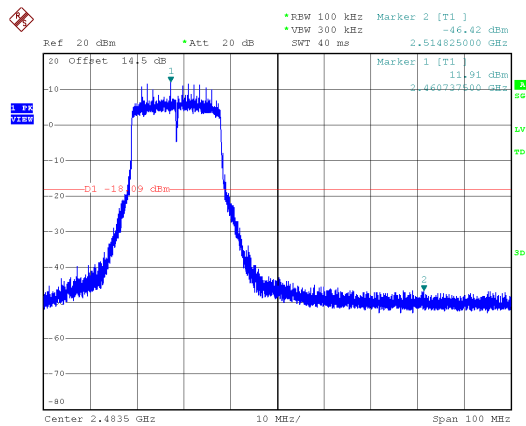
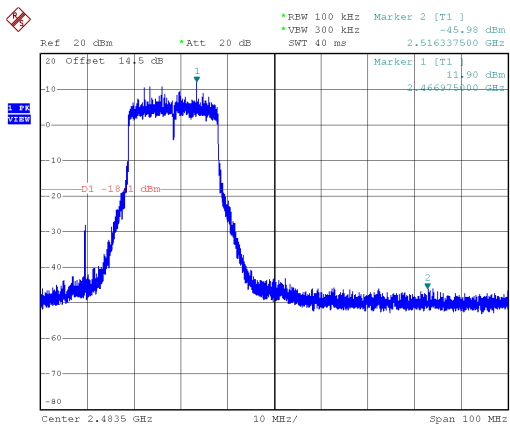
Beamforming
Modulation Type: 802.11ax HE20 CH11
ANT A

ANT B



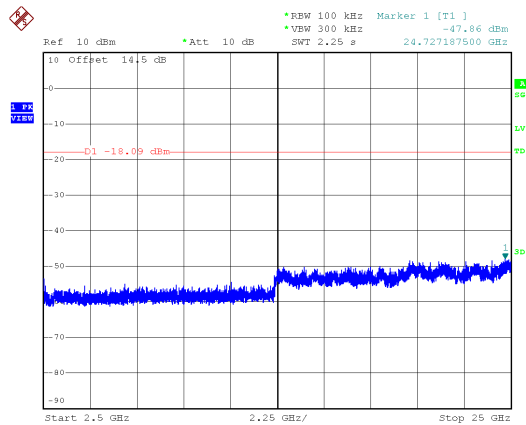
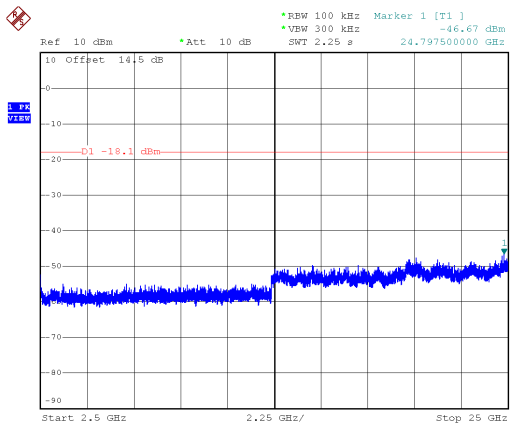
Date: 21.SEP.2023 21:39:38

Date: 21.SEP.2023 21:42:41



Date: 21.SEP.2023 21:39:13

Date: 21.SEP.2023 21:42:17

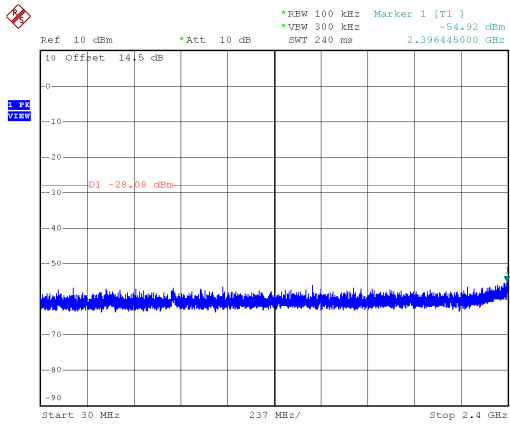


Date: 21.SEP.2023 21:40:02

Date: 21.SEP.2023 21:43:06

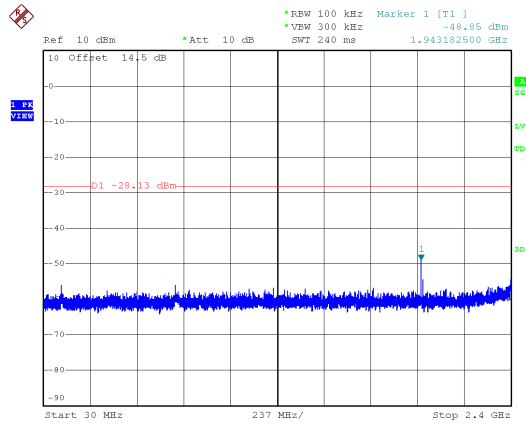


Beamforming
Modulation Type: 802.11ax HE40 CH03
ANT A

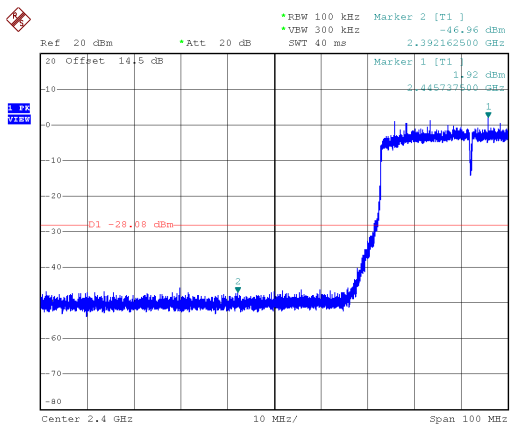


Date: 23.SEP.2023 13:14:46

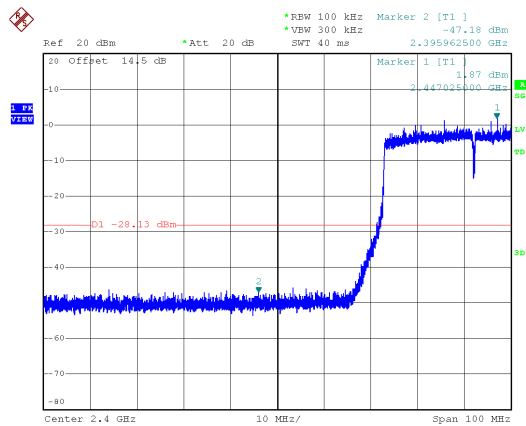
ANT B



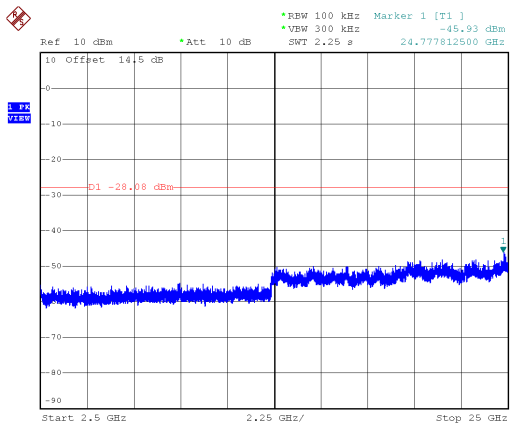
Date: 23.SEP.2023 13:15:56



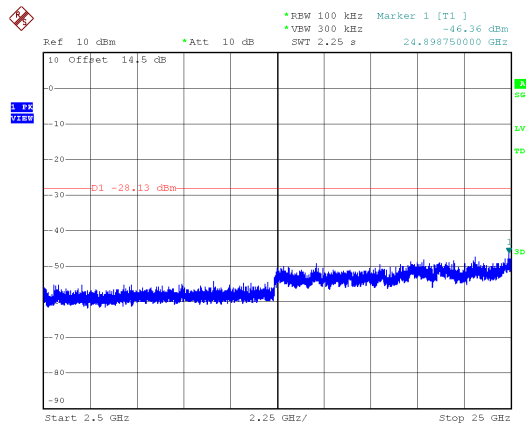
Date: 23.SEP.2023 13:14:22



Date: 23.SEP.2023 13:15:32



Date: 23.SEP.2023 13:15:09

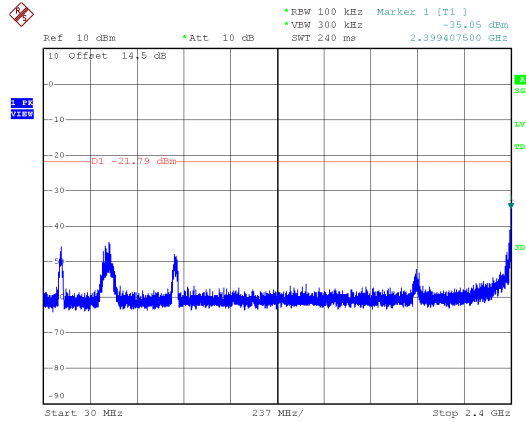
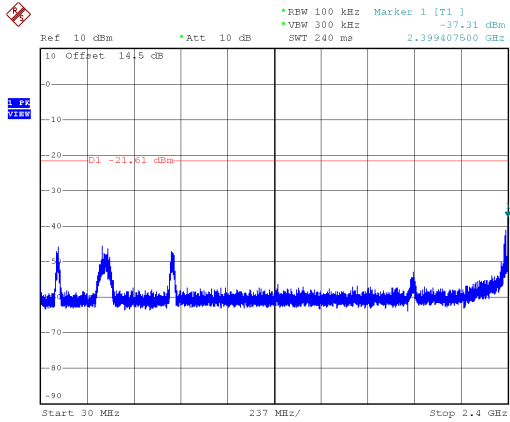


Date: 23.SEP.2023 13:16:19



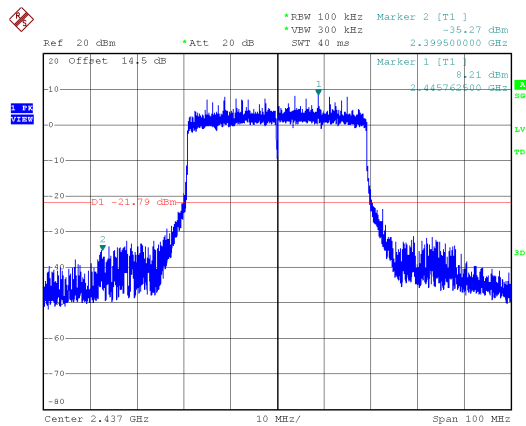
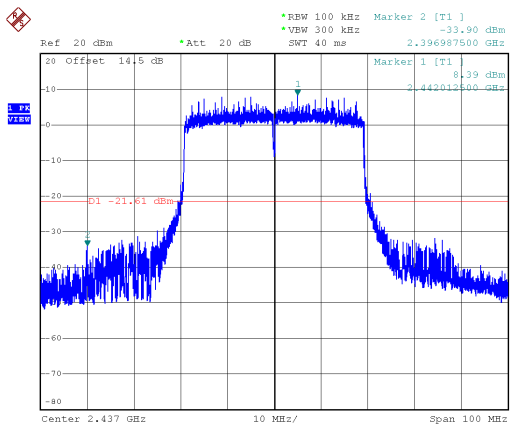
Beamforming
Modulation Type: 802.11ax HE40 CH06
ANT A

ANT B



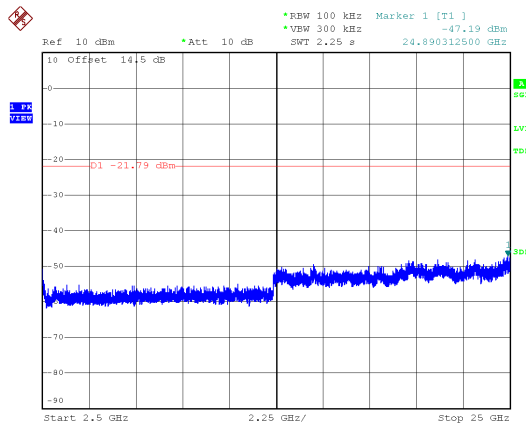
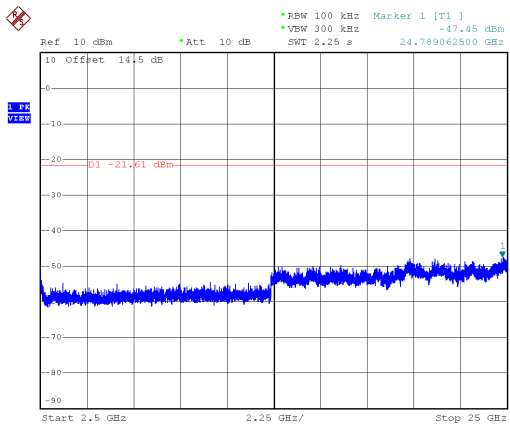
Date: 22.SEP.2023 10:38:13

Date: 22.SEP.2023 10:39:24



Date: 22.SEP.2023 10:37:50

Date: 22.SEP.2023 10:39:01



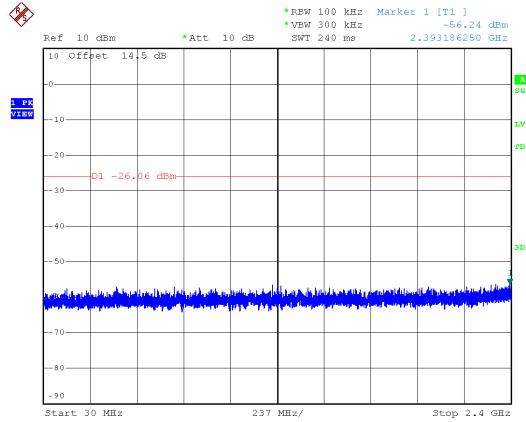
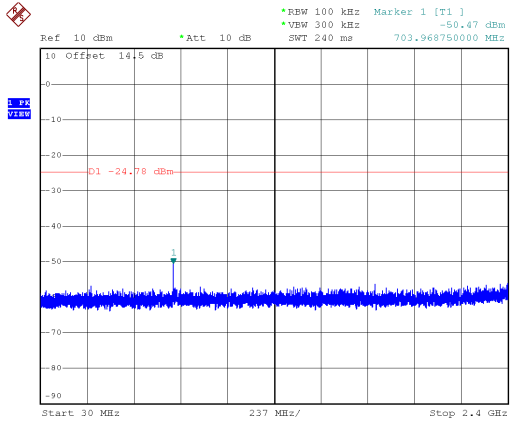
Date: 22.SEP.2023 10:38:37

Date: 22.SEP.2023 10:39:47



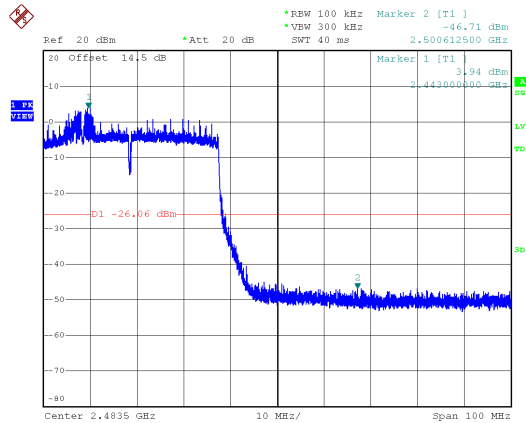
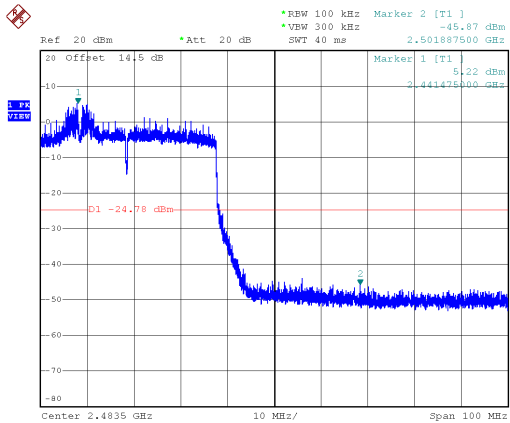
Beamforming
Modulation Type: 802.11ax HE40 CH09
ANT A

ANT B



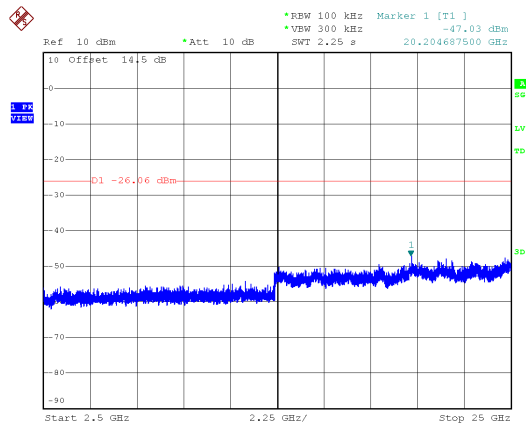
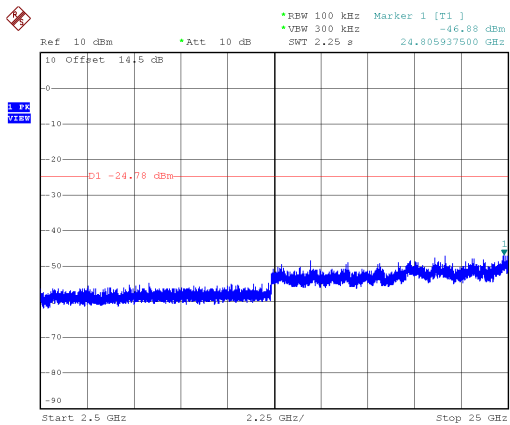
Date: 22.SEP.2023 05:24:32

Date: 22.SEP.2023 05:25:42



Date: 22.SEP.2023 05:24:09

Date: 22.SEP.2023 05:25:19



Date: 22.SEP.2023 05:24:55

Date: 22.SEP.2023 05:26:05



8. On Time, Duty Cycle and Measurement methods

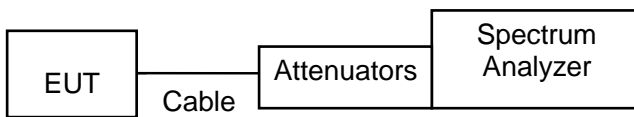
8.1 Test Limit

None; for reporting purposes only.

8.2 Test Procedure

According to the methods defined in ANSI C63.10-2013 Section 11.6 Zero-Span Spectrum Analyzer Method.

8.3 Test Setup Layout



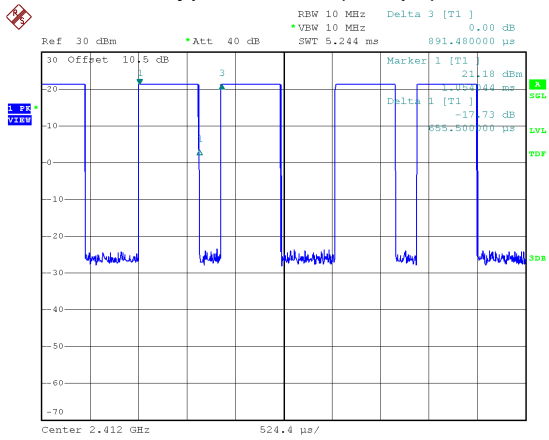
8.4 Test Result and Data

Non-beamforming			
Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11b,1M	0.66	0.89	73.51%
11g,6M	1.43	1.54	92.86%
11ax HE20	5.46	6.26	87.22%
11ax HE40	5.46	5.78	94.46%

Beamforming			
Modulation Type	On Time (ms)	Period Time (ms)	Duty Cycle (%)
11ax HE20	1.97	2.05	96.39%
11ax HE40	1.79	1.92	93.16%

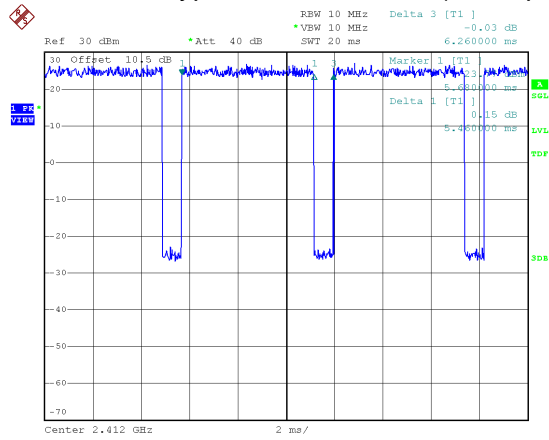


Non-beamforming
Modulation Type: 802.11b(1Mbps)



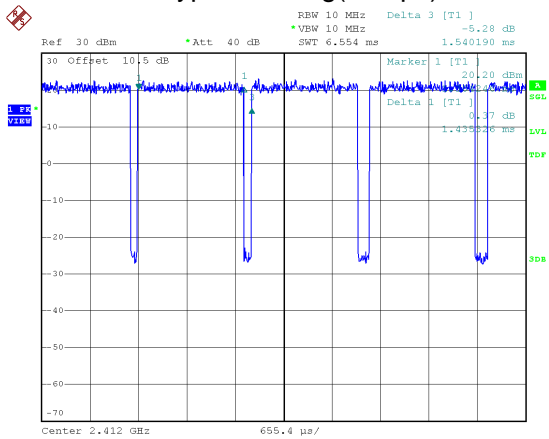
Date: 20.SEP.2023 19:58:37

Modulation Type: 802.11ax HE20 (7.3Mbps)



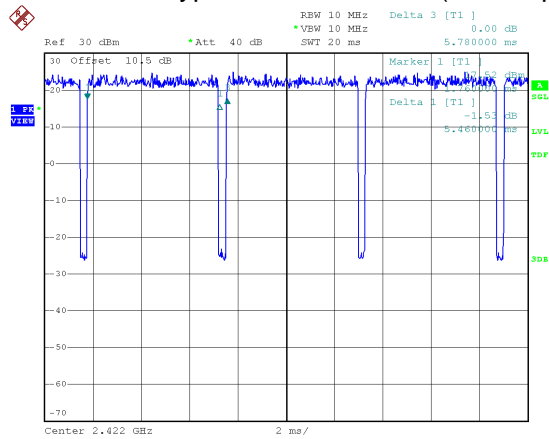
Date: 21.SEP.2023 10:22:25

Modulation Type: 802.11g(6Mbps)



Date: 20.SEP.2023 21:18:04

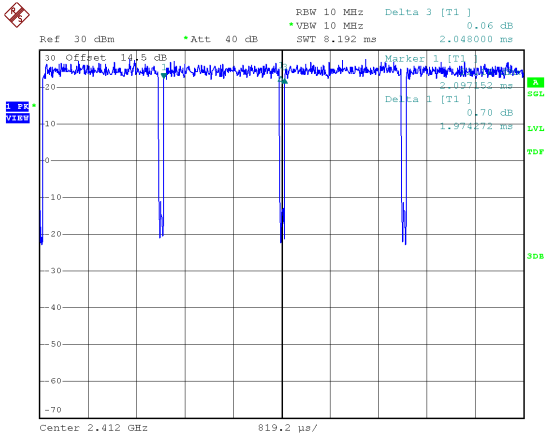
Modulation Type: 802.11ax HE40 (14.6Mbps)



Date: 21.SEP.2023 12:11:04

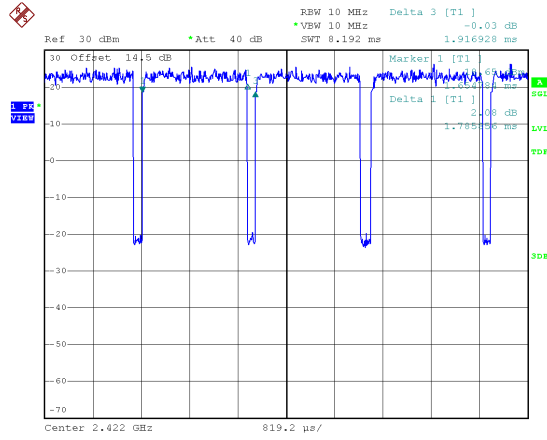


Beamforming
Modulation Type: 802.11ax HE20 (7.3Mbps)



Date: 21.SEP.2023 17:18:11

Modulation Type: 802.11ax HE40 (14.6Mbps)



Date: 21.SEP.2023 22:34:54



9. 6dB Bandwidth Measurement Data

9.1 Test Limit

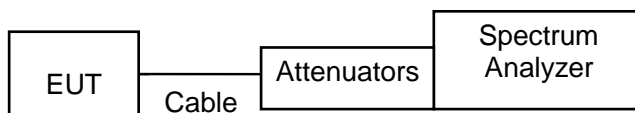
The minimum of 6dB Bandwidth Measurement is 0.5 MHz.

9.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.8

- a. The transmitter output was connected to the spectrum analyzer.
- b. Set RBW of spectrum analyzer to 100 KHz and VBW to 300 KHz.
- c. The 6 dB bandwidth is defined as the total spectrum the power of which is higher than peak power minus 6 dB.
- d. The 6dB Bandwidth was measured and recorded.

9.3 Test Setup Layout



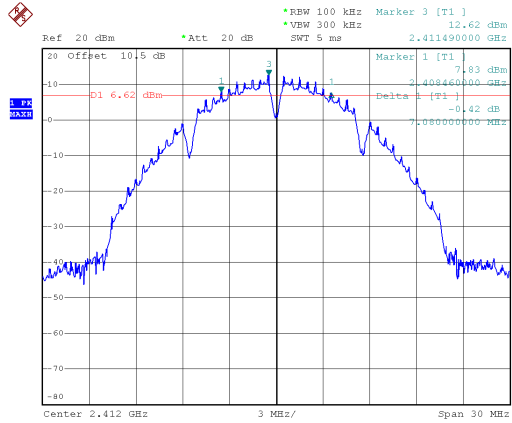
9.4 Test Result and Data

Non-beamforming					
Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (KHz)
			ANT A	ANT B	
11b	1	2412	7.08	8.07	0.5
	6	2437	7.56	8.04	0.5
	11	2462	7.56	7.08	0.5
11g	1	2412	15.39	15.66	0.5
	6	2437	16.29	16.29	0.5
	11	2462	15.63	15.78	0.5
11ax HE20	1	2412	18.21	17.43	0.5
	6	2437	17.42	17.43	0.5
	11	2462	18.06	18.30	0.5
11ax HE40	3	2422	37.74	37.02	0.5
	6	2437	37.86	37.50	0.5
	9	2452	37.92	37.62	0.5

Beamforming					
Modulation Type	Channel	Frequency (MHz)	6dB Bandwidth (MHz)		Limit (KHz)
			ANT A	ANT B	
11ax HE20	1	2412	15.12	15.54	0.5
	6	2437	17.58	17.10	0.5
	11	2462	18.39	17.94	0.5
11ax HE40	3	2422	37.38	37.20	0.5
	6	2437	37.68	36.54	0.5
	9	2452	37.50	36.72	0.5

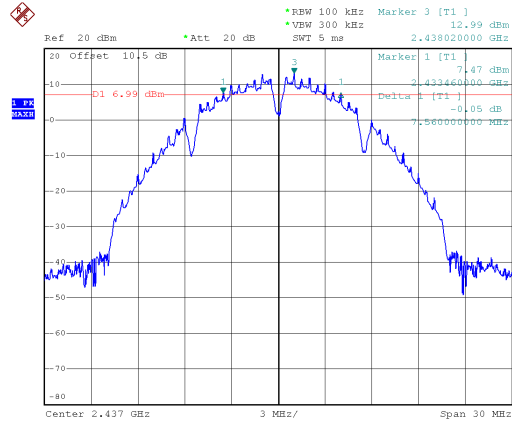


Non-Beamforming
Modulation Type: 802.11b CH01
ANT A



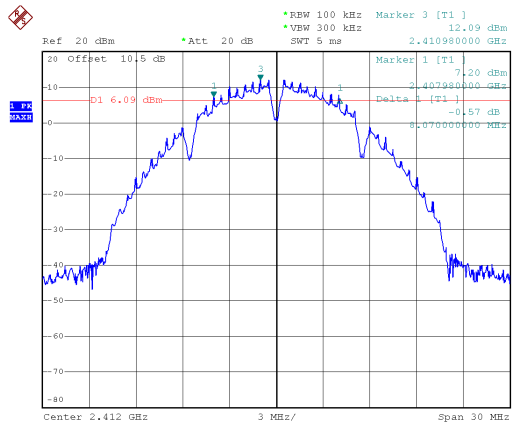
Date: 20.SEP.2023 19:08:58

Modulation Type: 802.11b CH06
ANT A



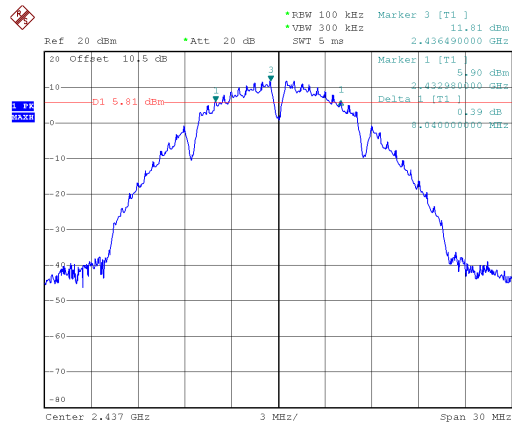
Date: 20.SEP.2023 20:15:34

ANT B



Date: 20.SEP.2023 19:09:39

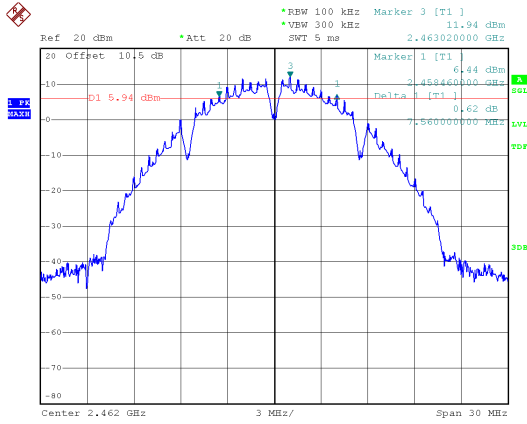
ANT B



Date: 20.SEP.2023 20:18:11

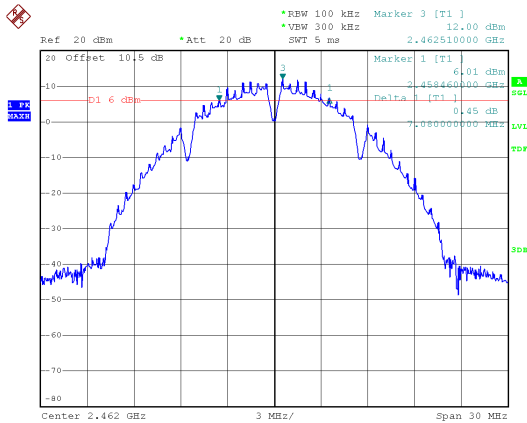


Non-Beamforming
Modulation Type: 802.11b CH11
ANT A



Date: 20.SEP.2023 20:38:35

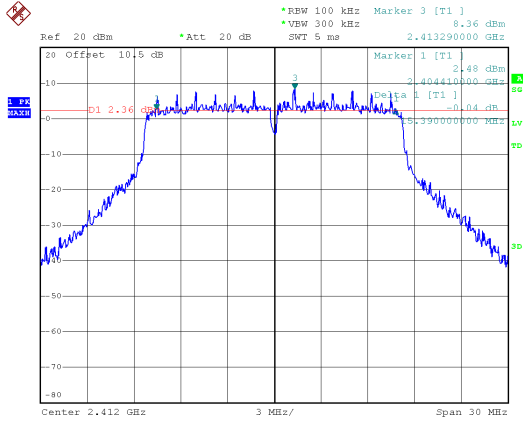
ANT B



Date: 20.SEP.2023 20:41:12

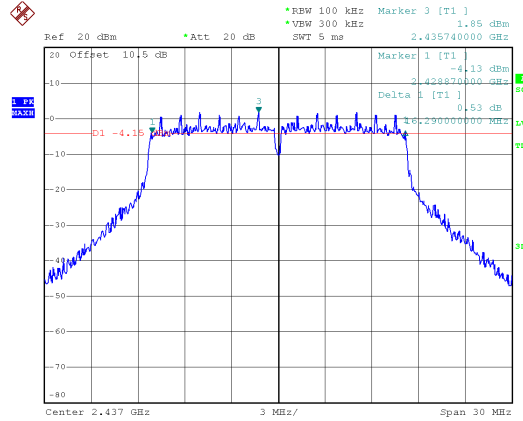


Non-Beamforming
Modulation Type: 802.11g CH01
ANT A



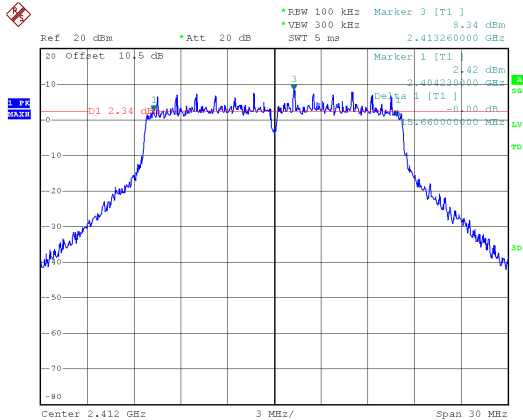
Date: 20.SEP.2023 21:30:35

Modulation Type: 802.11g CH06
ANT A



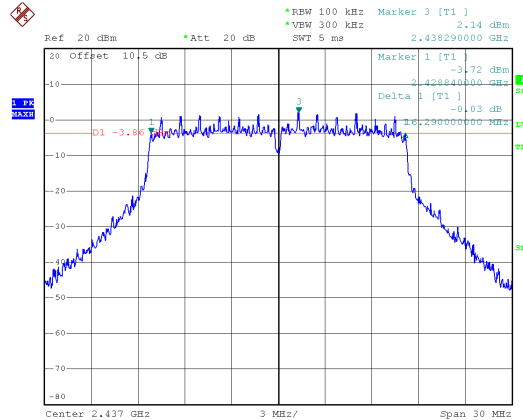
Date: 20.SEP.2023 21:42:49

ANT B



Date: 20.SEP.2023 21:30:58

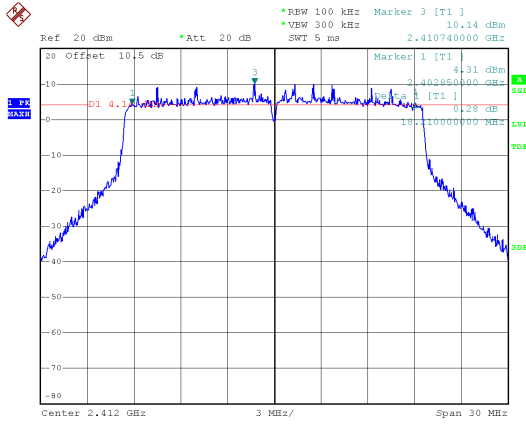
ANT B



Date: 20.SEP.2023 21:45:26

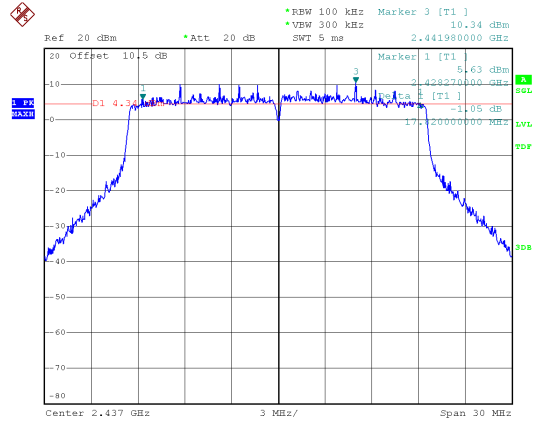


Non-Beamforming
Modulation Type: 802.11ax HE20 CH01
ANT A



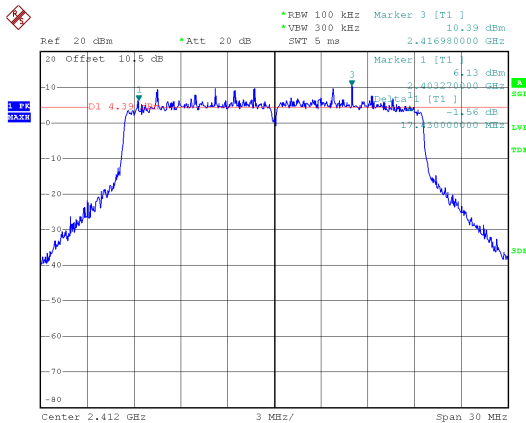
Date: 21.SEP.2023 10:08:55

Modulation Type: 802.11ax HE20 CH06
ANT A



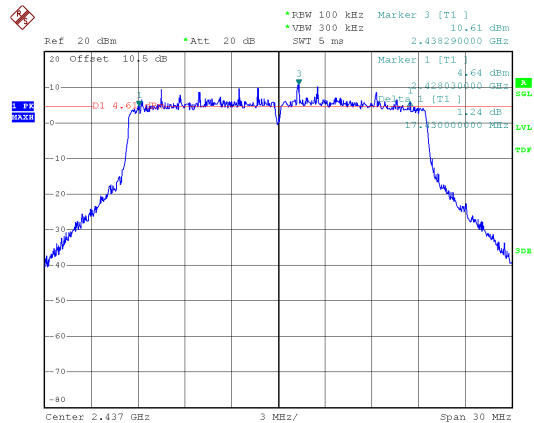
Date: 21.SEP.2023 10:41:33

ANT B



Date: 21.SEP.2023 10:11:58

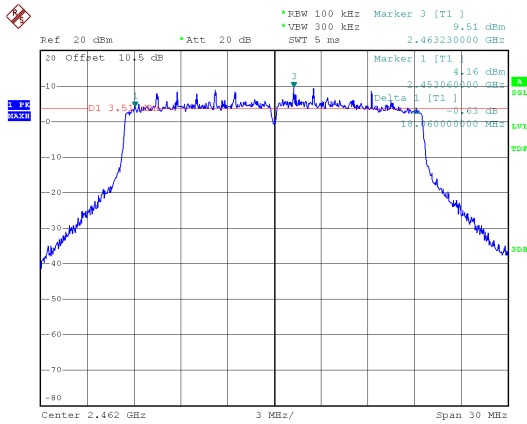
ANT B



Date: 21.SEP.2023 10:41:56

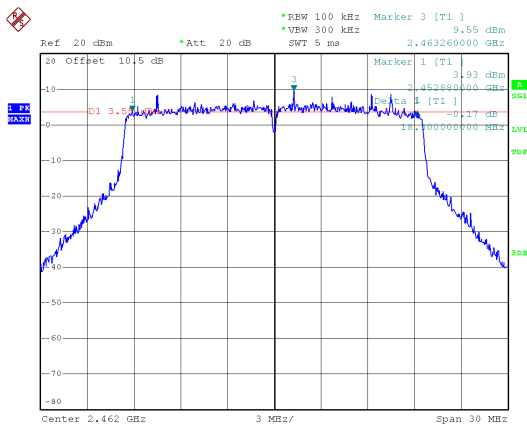


Non-Beamforming
Modulation Type: 802.11ax HE20 CH11
ANT A



Date: 21.SEP.2023 11:12:40

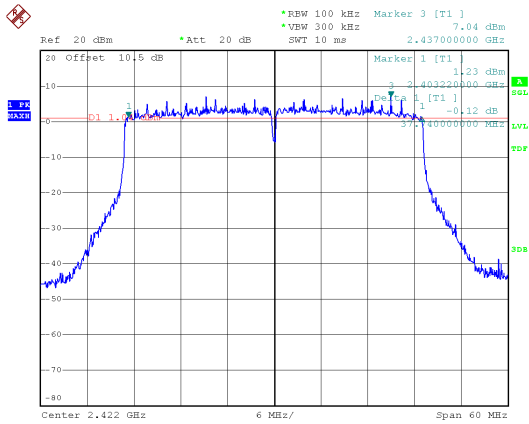
ANT B



Date: 21.SEP.2023 11:13:04

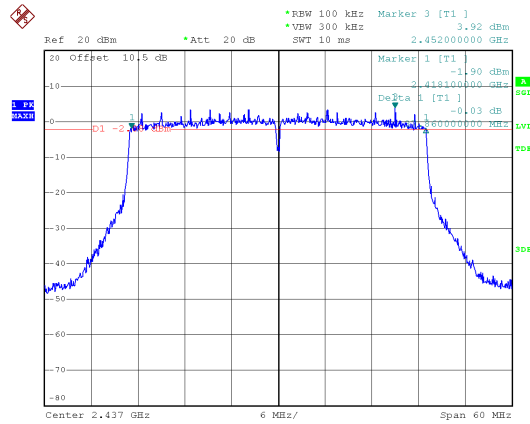


Non-Beamforming
Modulation Type: 802.11ax HE40 CH03
ANT A



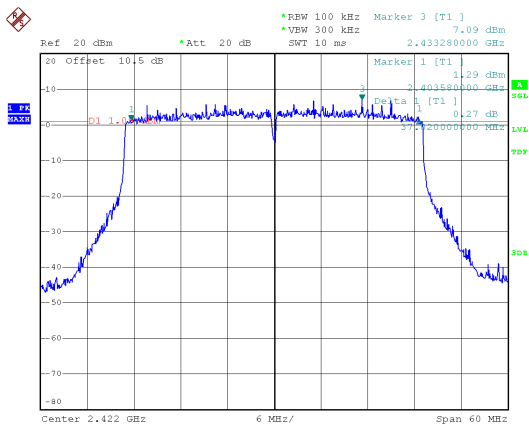
Date: 21.SEP.2023 12:21:39

Modulation Type: 802.11ax HE40 CH06
ANT A



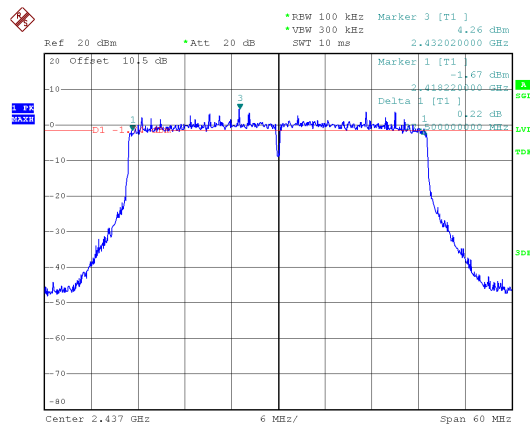
Date: 21.SEP.2023 12:32:05

ANT B



Date: 21.SEP.2023 12:22:02

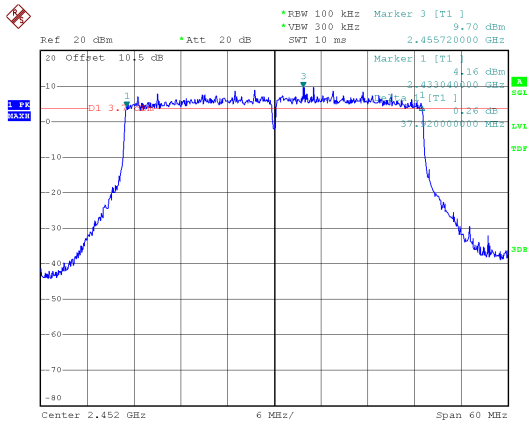
ANT B



Date: 21.SEP.2023 12:32:27

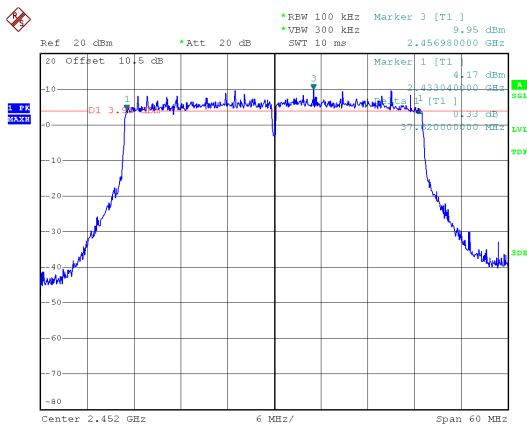


Non-Beamforming
Modulation Type: 802.11ax HE40 CH09
ANT A



Date: 21.SEP.2023 12:51:49

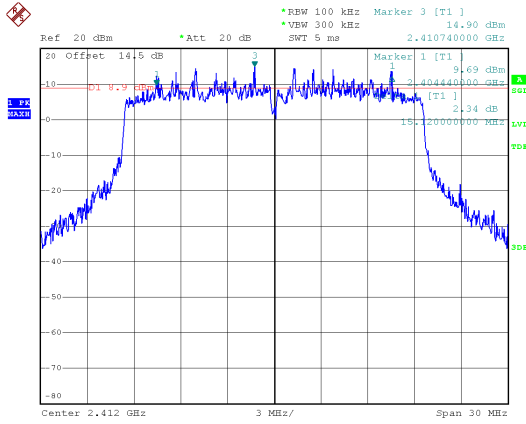
ANT B



Date: 21.SEP.2023 12:54:28

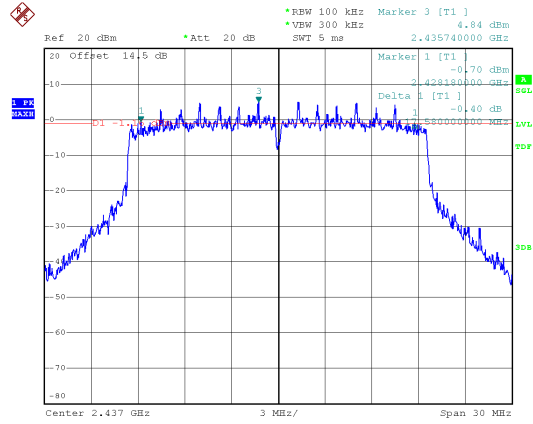


Beamforming
Modulation Type: 802.11ax HE20 CH01
ANT A



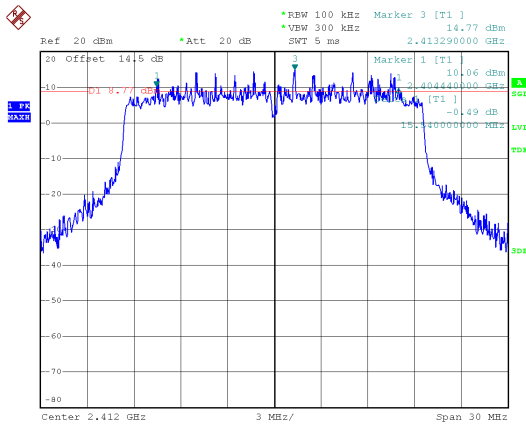
Date: 21.SEP.2023 17:21:29

Modulation Type: 802.11ax HE20 CH06
ANT A



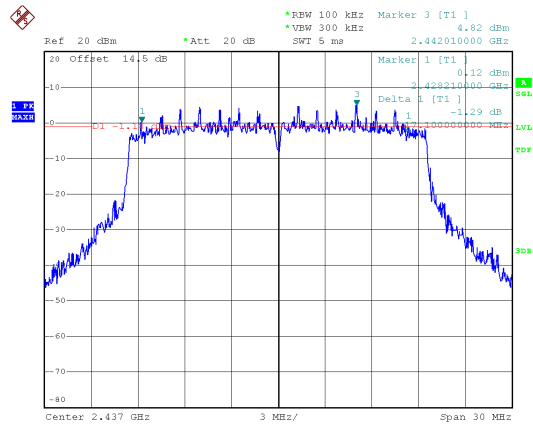
Date: 21.SEP.2023 18:29:34

ANT B



Date: 21.SEP.2023 17:21:51

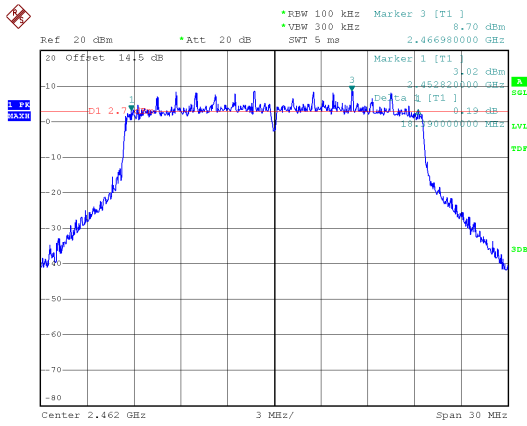
ANT B



Date: 21.SEP.2023 18:29:57

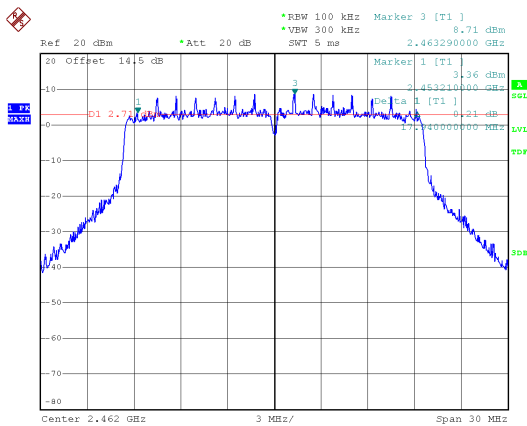


Beamforming
Modulation Type: 802.11ax HE20 CH11
ANT A



Date: 21.SEP.2023 21:44:42

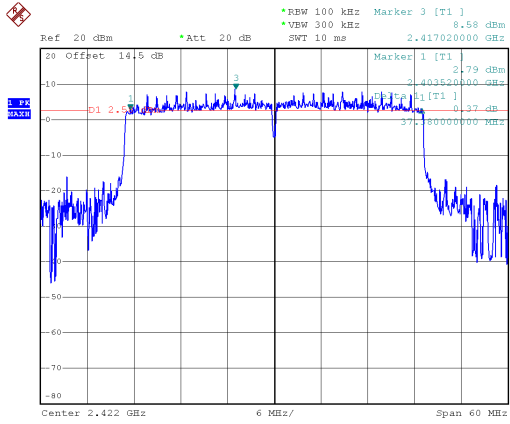
ANT B



Date: 21.SEP.2023 21:45:06

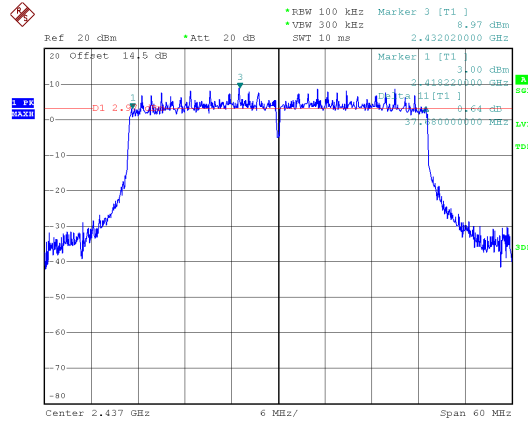


Beamforming
Modulation Type: 802.11ax HE40 CH03
ANT A



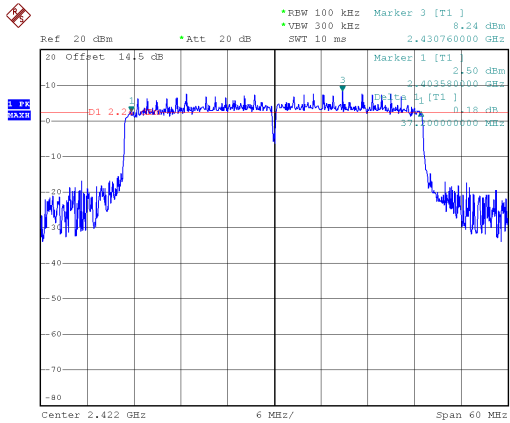
Date: 21.SEP.2023 22:36:27

Modulation Type: 802.11ax HE40 CH06
ANT A



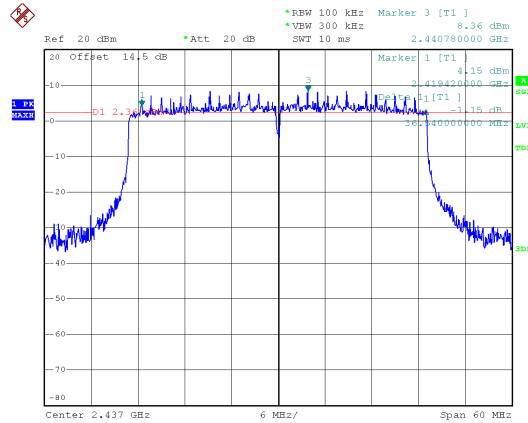
Date: 21.SEP.2023 22:46:40

ANT B



Date: 21.SEP.2023 22:36:50

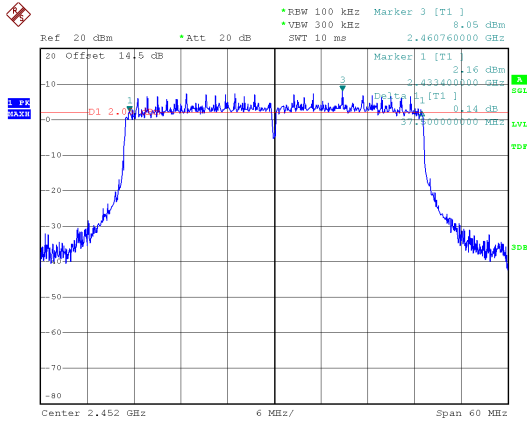
ANT B



Date: 21.SEP.2023 22:47:03

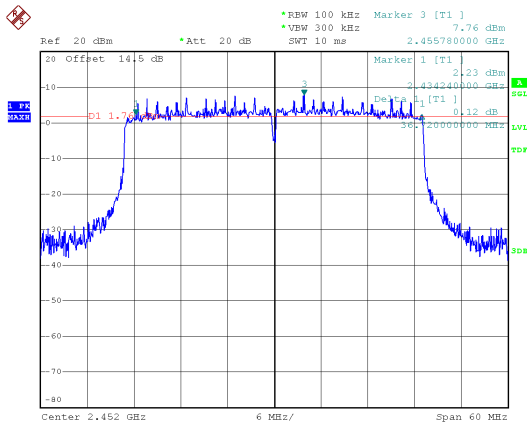


Beamforming
Modulation Type: 802.11ax HE40 CH09
ANT A



Date: 21.SEP.2023 23:10:39

ANT B



Date: 21.SEP.2023 23:11:02



10. Maximum Average Output Power

10.1 Test Limit

The Maximum Average Output Power Measurement is 30dBm.

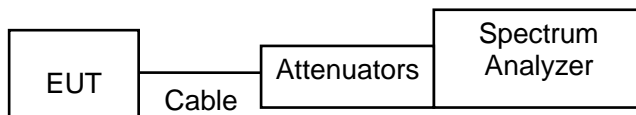
If transmitting antennas of directional gain greater than 6 dBi are used, the average output power shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

10.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.9.2.3.2

The antenna port (RF output) of the EUT was connected to the input (RF input) of a power meter. Power was read directly from the meter and cable loss connection was added to the reading to obtain power at the EUT antenna terminal. The EUT Output Power was set to maximum to produce the worse case test result.

10.3 Test Setup Layout





10.4 Test Result and Data

ANT Type: Dipole, Non-beamforming									
Date Rate	Setting	Modulation Mode	CH	Frequency (MHz)	Conducted (AV) output power (dBm)		Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
					ANT A	ANT B			
1	25	11b	1	2412	24.84	24.71	27.79	600.591	30.00
	25.5		6	2437	25.19	25.30	28.26	669.214	30.00
	23		11	2462	22.45	22.65	25.56	359.870	30.00
6	18	11g	1	2412	17.87	18.04	20.97	124.915	30.00
	25.5		6	2437	25.10	25.22	28.17	656.253	30.00
	16.5		11	2462	16.10	16.44	19.28	84.794	30.00
NSS1-MCS0	19	11ax HE20	1	2412	18.50	18.31	21.42	138.559	30.00
	26		6	2437	25.18	25.04	28.12	648.763	30.00
	19		11	2462	18.25	18.06	21.17	130.808	30.00
NSS1-MCS0	14.5	11ax HE40	3	2422	14.54	14.48	17.52	56.499	30.00
	19.5		6	2437	19.10	19.27	22.20	165.811	30.00
	14		9	2452	13.69	13.81	16.76	47.432	30.00

ANT Type: Dipole, Beamforming									
Date Rate	Setting	Modulation Mode	CH	Frequency (MHz)	Conducted (AV) output power (dBm)		Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
					ANT A	ANT B			
NSS1-MCS0	21	11ax HE20	1	2412	18.73	18.49	21.62	145.28	29.42
	24		6	2437	21.55	21.75	24.66	292.51	29.42
	24		11	2462	21.63	21.84	24.75	298.30	29.42
NSS1-MCS0	20	11ax HE40	3	2422	17.90	18.11	21.02	126.37	29.42
	21		6	2437	19.20	19.05	22.14	163.53	29.42
	18		9	2452	16.12	15.91	19.03	79.92	29.42



ANT Type: Patch, Non-beamforming									
Date Rate	Setting	Modulation Mode	CH	Frequency (MHz)	Conducted (AV) output power (dBm)		Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
					ANT A	ANT B			
1	18	11b	1	2412	18.19	18.01	21.11	129.159	29.00
	18		6	2437	18.03	18.10	21.08	128.099	29.00
	19		11	2462	18.80	19.06	21.94	156.396	29.00
6	17	11g	1	2412	16.88	17.16	20.03	100.752	29.00
	19		6	2437	18.81	19.12	21.98	157.691	29.00
	15		11	2462	14.75	14.92	17.85	60.899	29.00
NSS1-MCS0	15	11ax HE20	1	2412	14.59	14.43	17.52	56.507	29.00
	19		6	2437	18.49	18.32	21.42	138.552	29.00
	15		11	2462	14.39	14.25	17.33	54.086	29.00
NSS1-MCS0	14	11ax HE40	3	2422	13.94	13.82	16.89	48.873	29.00
	15		6	2437	14.69	14.80	17.76	59.644	29.00
	13		9	2452	12.79	12.76	15.79	37.891	29.00

ANT Type: Patch, Beamforming									
Date Rate	Setting	Modulation Mode	CH	Frequency (MHz)	Conducted (AV) output power (dBm)		Total AV power (dBm)	Total AV power (mW)	Power Limit (dBm)
					ANT A	ANT B			
NSS1-MCS0	17	11ax HE20	1	2412	14.68	14.55	17.63	57.887	25.99
	18		6	2437	15.63	15.71	18.68	73.799	25.99
	17		11	2462	14.61	14.85	17.74	59.456	25.99
NSS1-MCS0	16	11ax HE40	3	2422	13.91	14.08	17.01	50.190	25.99
	17		6	2437	15.02	14.90	17.97	62.672	25.99
	10		9	2452	8.32	8.23	11.29	13.445	25.99



11. Power Spectral Density

11.1 Test Limit

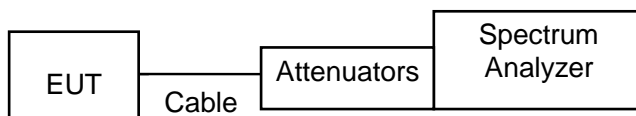
The Maximum of Power Spectral Density Measurement is 8dBm.

If transmitting antennas of directional gain greater than 6 dBi are used, the power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi

11.2 Test Procedures

According to the methods defined in ANSI C63.10-2013 Section 11.10.1.

11.3 Test Setup Layout



11.4 Test Result and Data

Non-beamforming								
Modulation Type	CH	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A	ANT B				
11b	1	2412	-4.84	-5.76	-2.27	1.34	-0.93	7.42
	6	2437	-2.72	-2.54	0.38	1.34	1.72	7.42
	11	2462	-8.41	-8.6	-5.49	1.34	-4.15	7.42
11g	1	2412	-15.32	-15.13	-12.21	0.32	-11.89	7.42
	6	2437	-6.86	-6.9	-3.87	0.32	-3.55	7.42
	11	2462	-16.44	-16.13	-13.27	0.32	-12.95	7.42
11ax HE20	1	2412	-15.82	-16.38	-13.08	0.59	-12.49	7.42
	6	2437	-7.23	-8.15	-4.66	0.59	-4.07	7.42
	11	2462	-16.25	-16.61	-13.42	0.59	-12.83	7.42

Non-beamforming								
Modulation Type	CH	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A	ANT B				
11ax HE40	3	2422	-10.78	-10.66	-7.71	0.25	-7.46	7.42
	6	2437	-5.6	-5.13	-2.35	0.25	-2.10	7.42
	9	2452	-11.03	-10.97	-7.99	0.25	-7.74	7.42

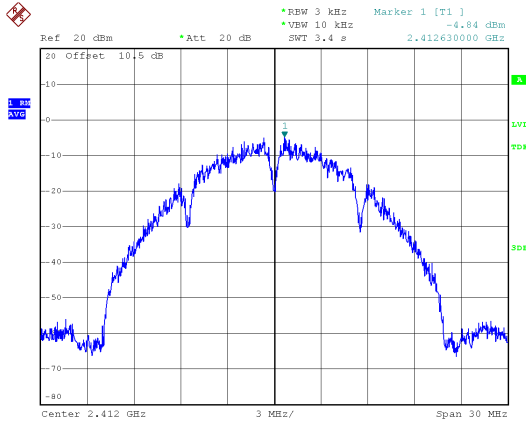


Beamforming								
Modulation Type	CH	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A	ANT B				
11ax HE20	1	2412	-15.51	-16.42	-12.93	0.16	-12.77	7.42
	6	2437	-9.35	-9.95	-6.63	0.16	-6.47	7.42
	11	2462	-9.06	-9.17	-6.10	0.16	-5.94	7.42

Beamforming								
Modulation Type	CH	Frequency (MHz)	Maximum Power Density of 3KHz Bandwidth(dBm)		Sum chain (dBm)	Duty Cycle CF(dB)	Total PSD (dBm)	Limit (dBm)
			ANT A	ANT B				
11ax HE40	3	2422	-7.43	-7.91	-4.65	0.31	-4.34	7.42
	6	2437	-7.18	-7.3	-4.23	0.31	-3.92	7.42
	9	2452	-9.42	-9.45	-6.42	0.31	-6.11	7.42

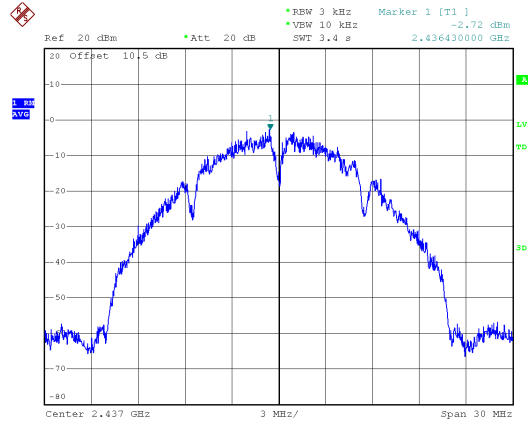


Non-beamforming
Modulation Type: 802.11b CH01
ANT A



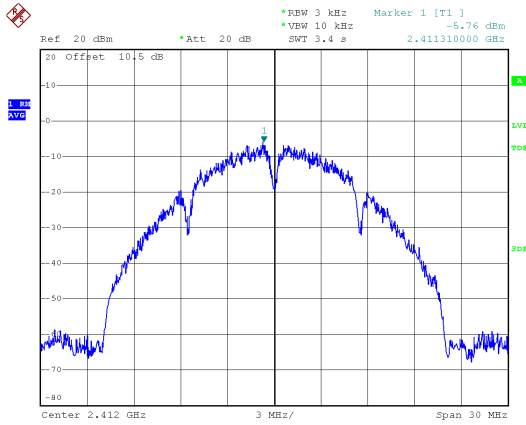
Date: 20.SEP.2023 18:46:03

Modulation Type: 802.11b CH06
ANT A



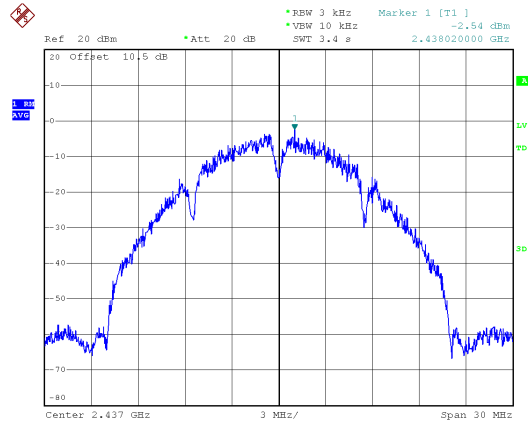
Date: 20.SEP.2023 20:35:23

ANT B



Date: 20.SEP.2023 18:48:41

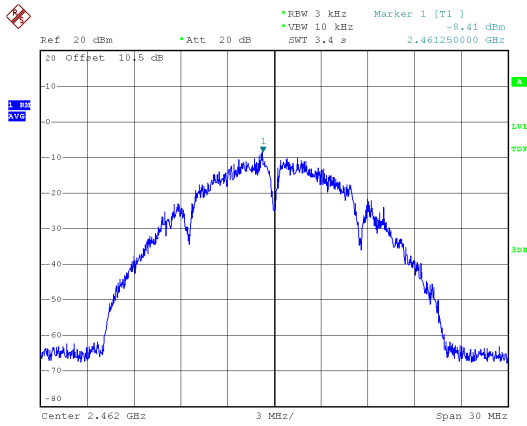
ANT B



Date: 20.SEP.2023 20:35:48

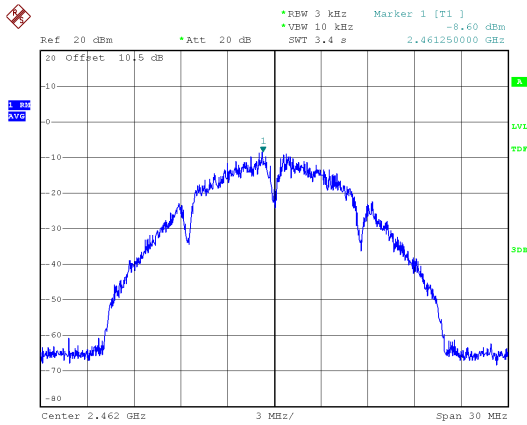


Non-beamforming
Modulation Type: 802.11b CH11
ANT A



Date: 20.SEP.2023 21:03:05

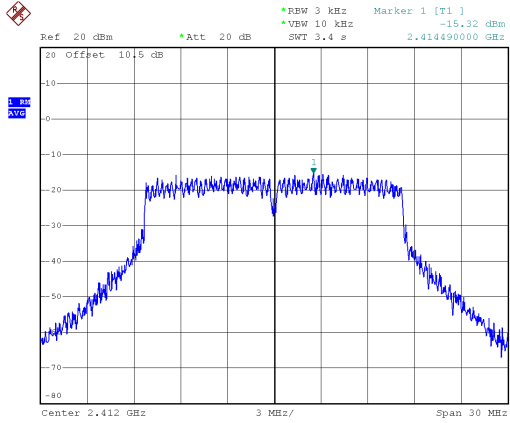
ANT B



Date: 20.SEP.2023 21:03:29

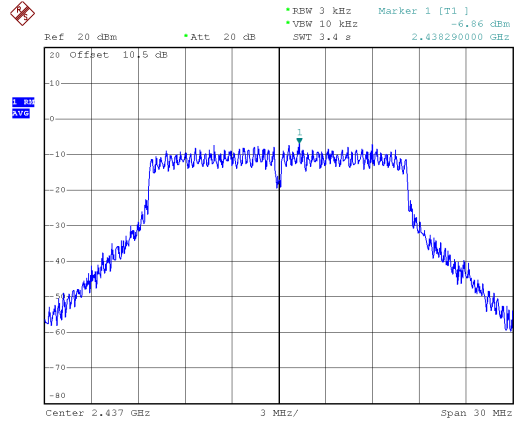


Non-beamforming
Modulation Type: 802.11g CH01
ANT A



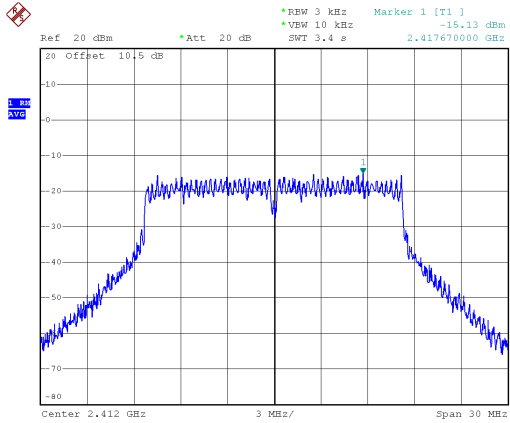
Date: 20.SEP.2023 21:40:34

Modulation Type: 802.11g CH06
ANT A



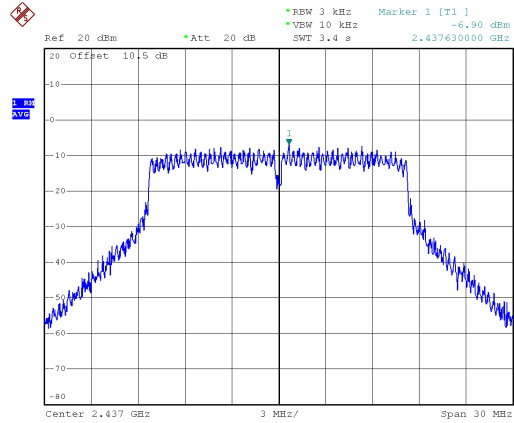
Date: 21.SEP.2023 11:45:48

ANT B



Date: 20.SEP.2023 21:40:58

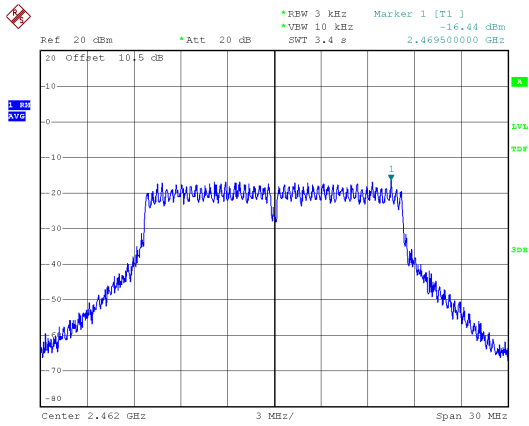
ANT B



Date: 21.SEP.2023 11:46:47

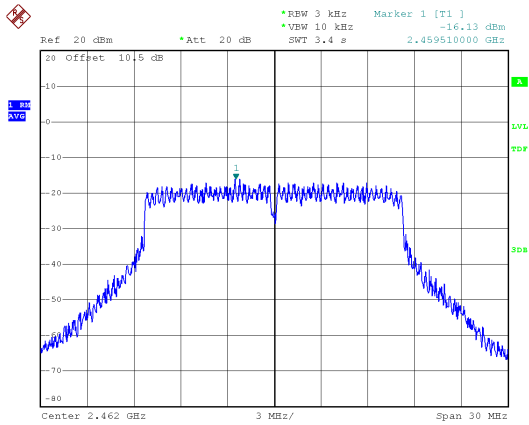


Non-beamforming
Modulation Type: 802.11g CH11
ANT A



Date: 21.SEP.2023 11:59:57

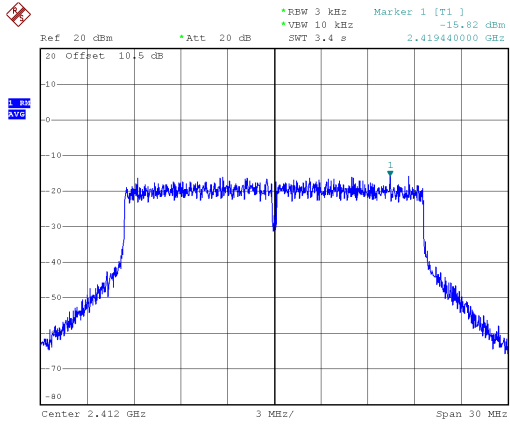
ANT B



Date: 21.SEP.2023 12:00:22

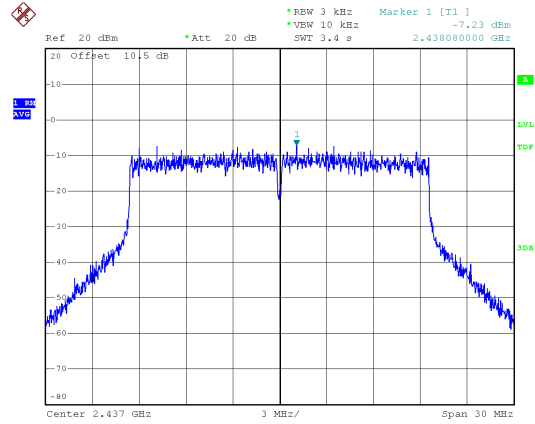


Non-beamforming
Modulation Type: 802.11ax HE20 CH01
ANT A



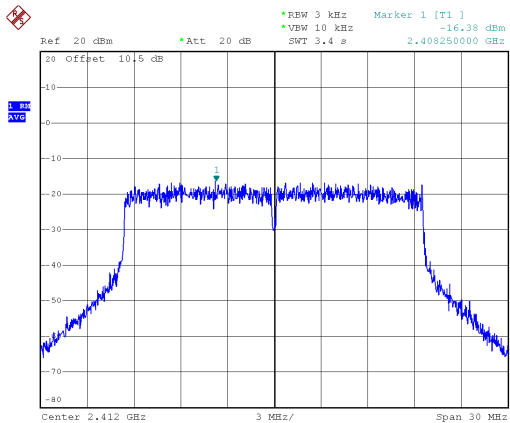
Date: 21.SEP.2023 10:30:44

Modulation Type: 802.11ax HE20 CH06
ANT A



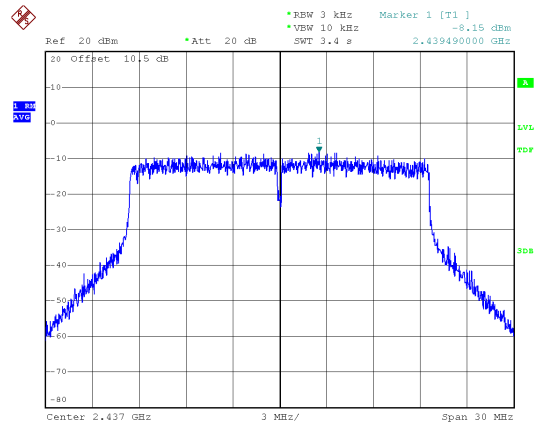
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ANT B



Date: 21.SEP.2023 10:31:09

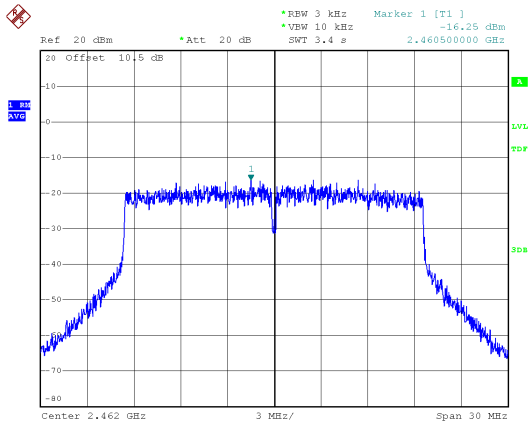
ANT B



Date: 21.SEP.2023 10:59:52

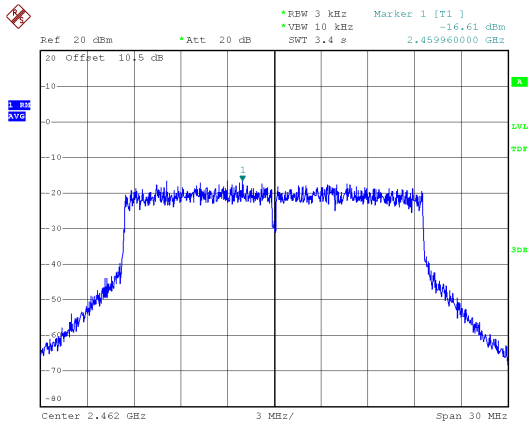


Non-beamforming
Modulation Type: 802.11ax HE20 CH11
ANT A



Date: 21.SEP.2023 11:26:54

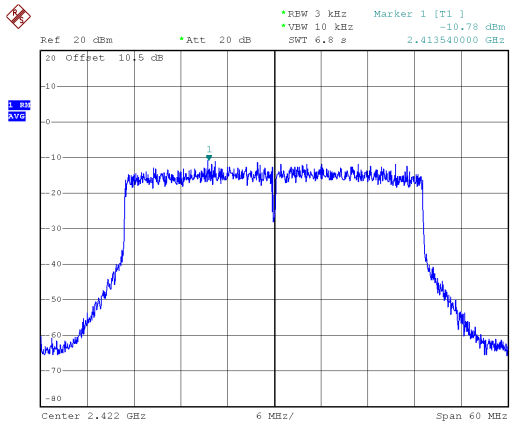
ANT B



Date: 21.SEP.2023 11:27:19

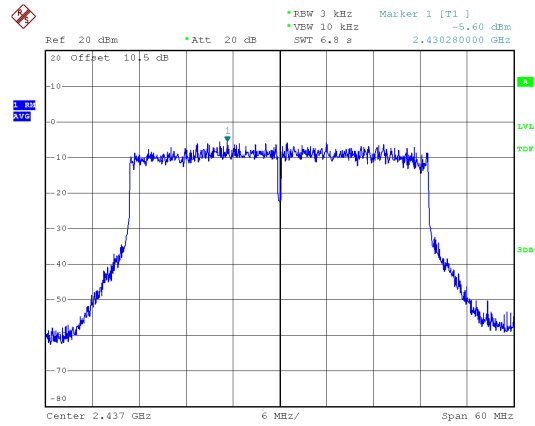


Non-beamforming
Modulation Type: 802.11ax HE40 CH03
ANT A



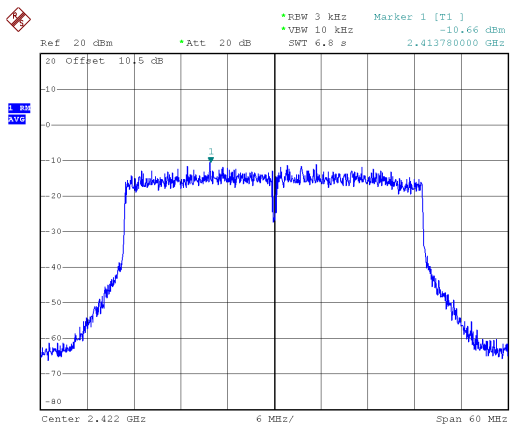
Date: 21.SEP.2023 12:23:47

Modulation Type: 802.11ax HE40 CH06
ANT A



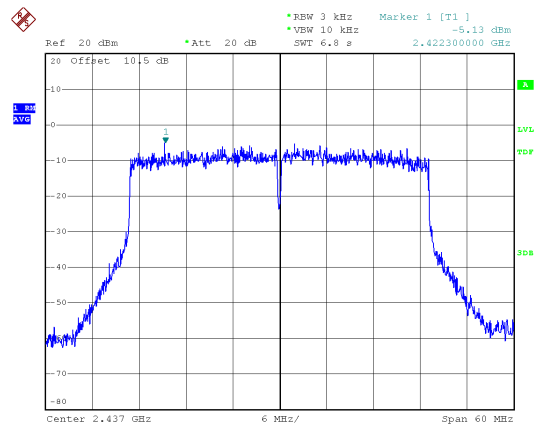
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ANT B



Date: 21.SEP.2023 12:24:12

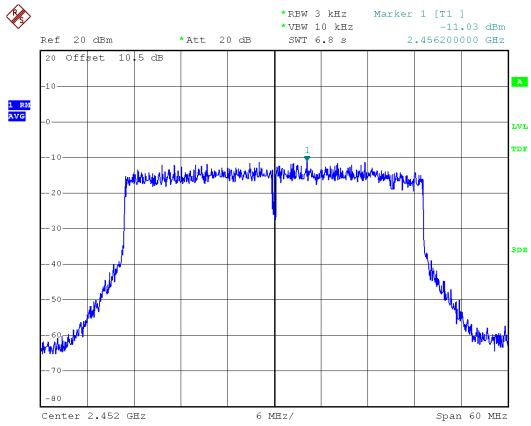
ANT B



Date: 21.SEP.2023 12:40:25

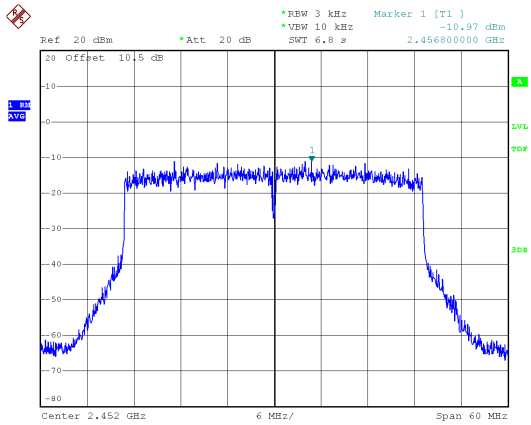


Non-beamforming
Modulation Type: 802.11ax HE40 CH09
ANT A



Date: 21.SEP.2023 14:36:21

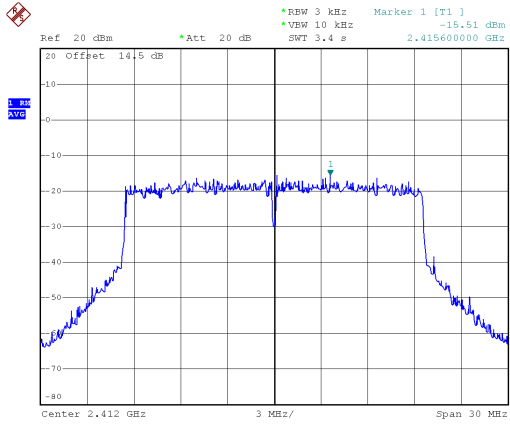
ANT B



Date: 21.SEP.2023 14:36:47

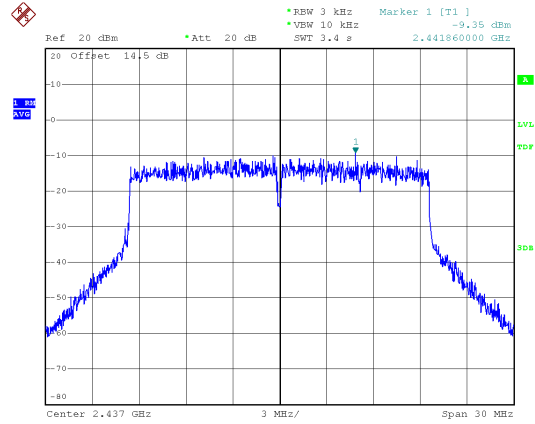


Beamforming
Modulation Type: 802.11ax HE20 CH01
ANT A



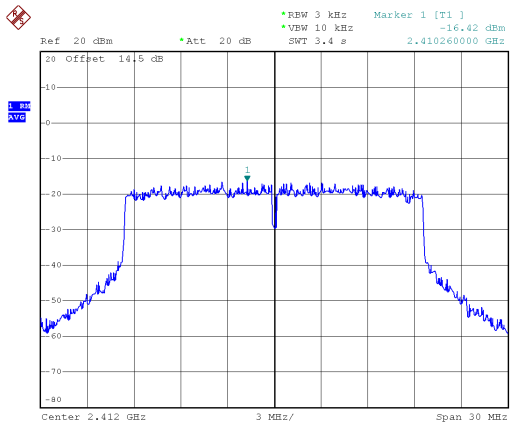
Date: 22.SEP.2023 11:07:37

Modulation Type: 802.11ax HE20 CH06
ANT A



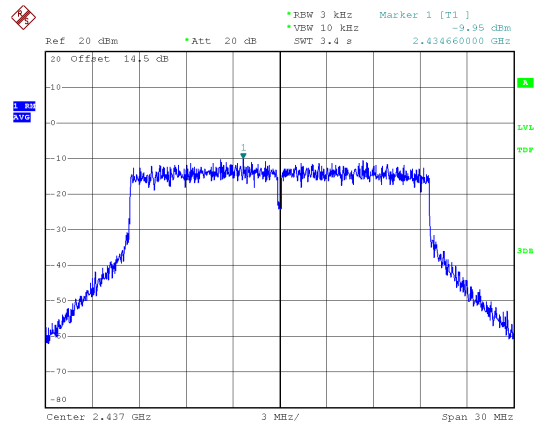
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ANT B



Date: 22.SEP.2023 11:08:10

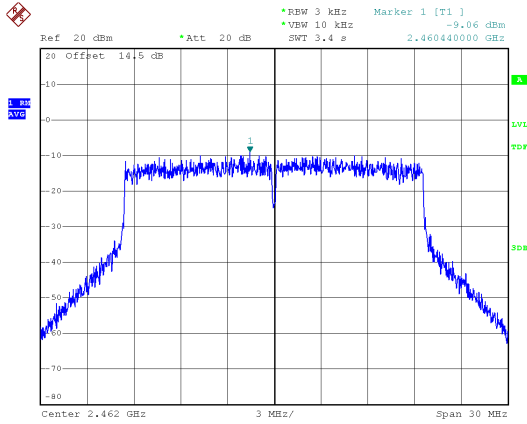
ANT B



Date: 21.SEP.2023 21:34:37

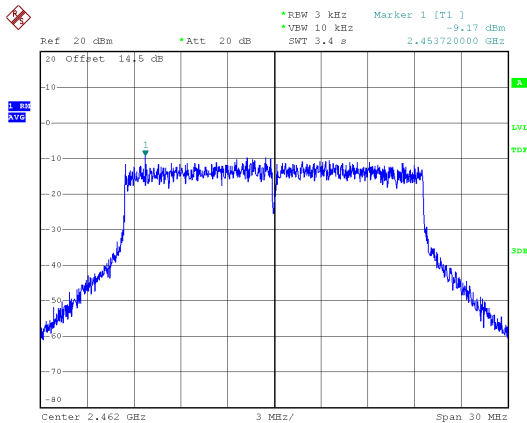


Beamforming
Modulation Type: 802.11ax HE20 CH11
ANT A



Date: 21.SEP.2023 21:48:41

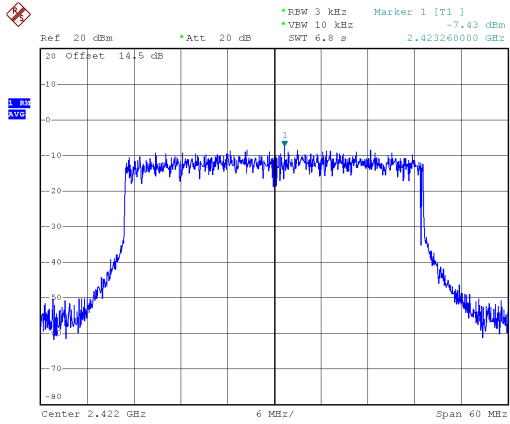
ANT B



Date: 21.SEP.2023 21:49:26

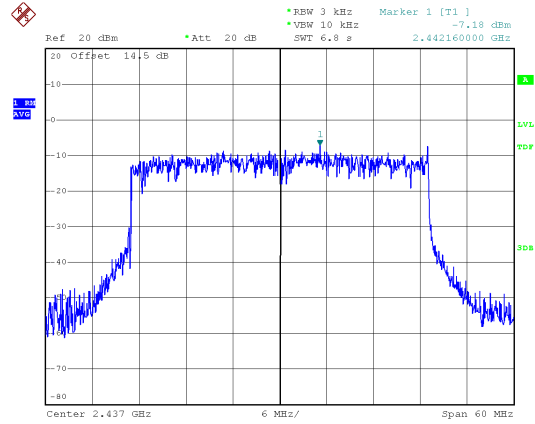


Beamforming
Modulation Type: 802.11ax HE40 CH03
ANT A



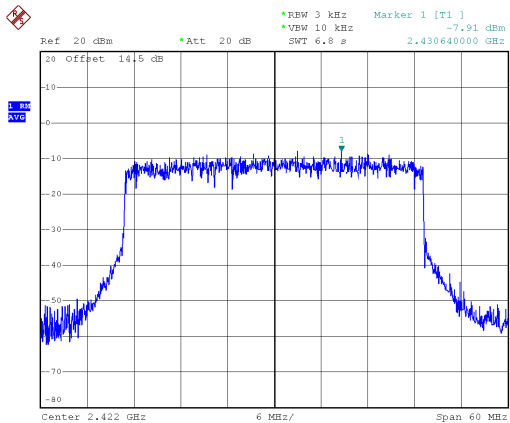
Date: 22.SEP.2023 10:49:21

Modulation Type: 802.11ax HE40 CH06
ANT A



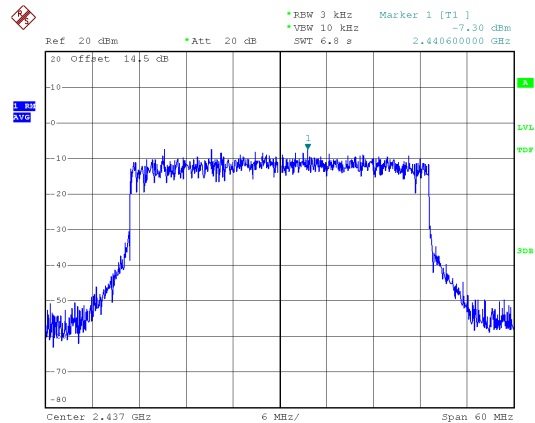
Date: 22.SEP.2023 10:35:06

ANT B



Date: 22.SEP.2023 10:49:54

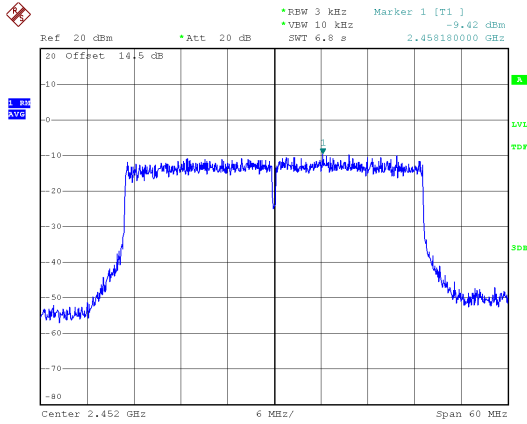
ANT B



Date: 22.SEP.2023 10:36:54

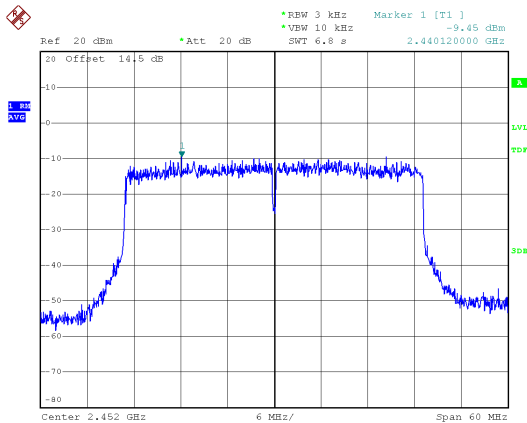


Beamforming
Modulation Type: 802.11ax HE40 CH09
ANT A



Date: 23.SEP.2023 12:33:40

ANT B



Date: 23.SEP.2023 12:34:12