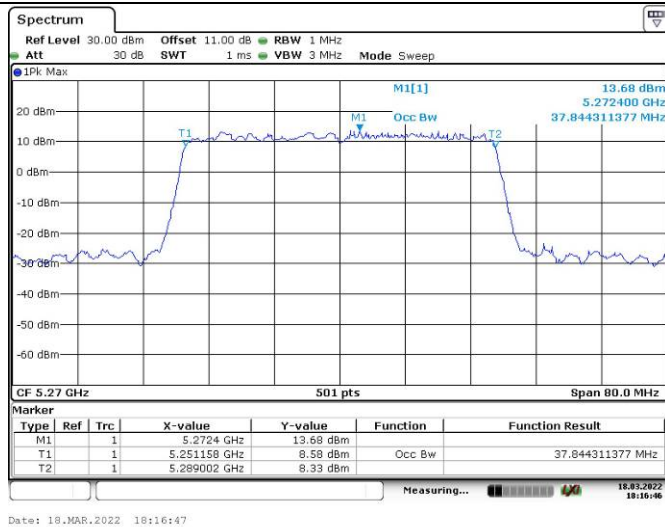
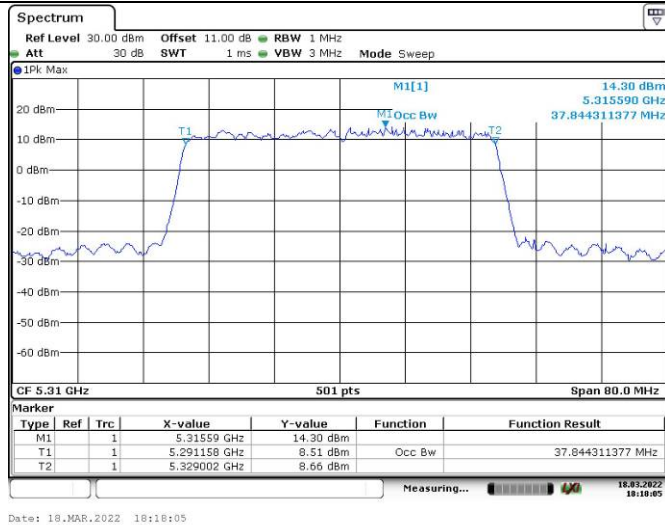
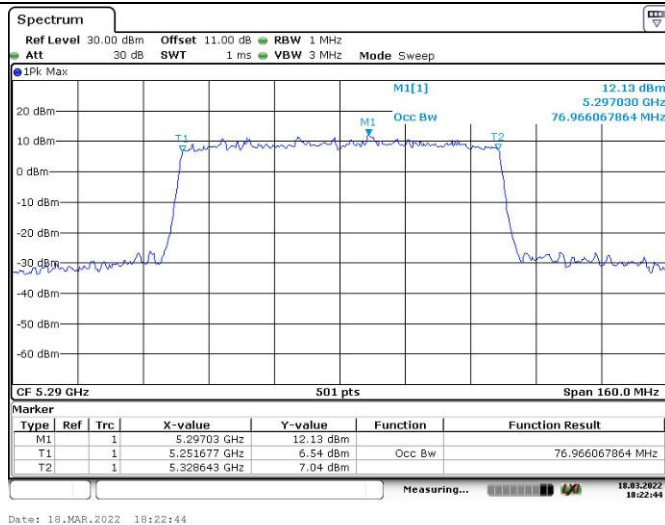
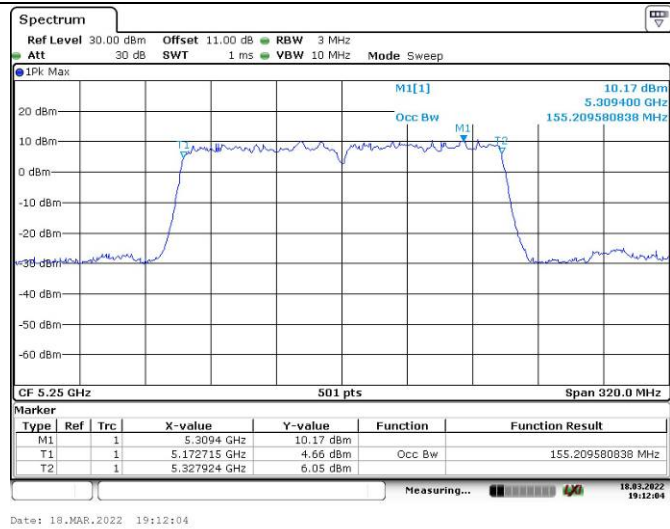
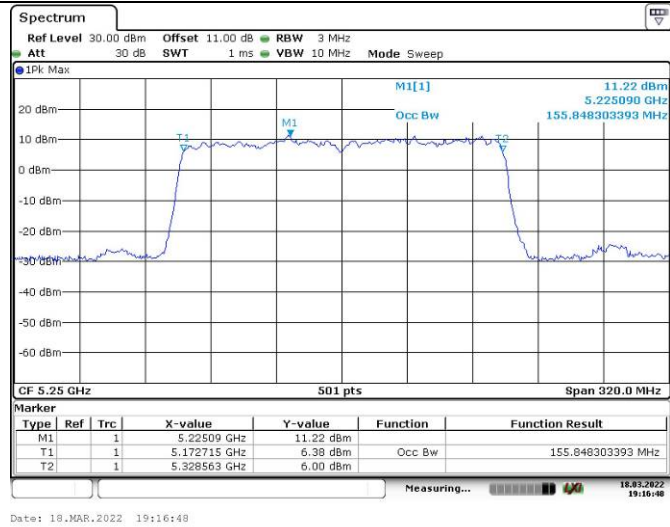


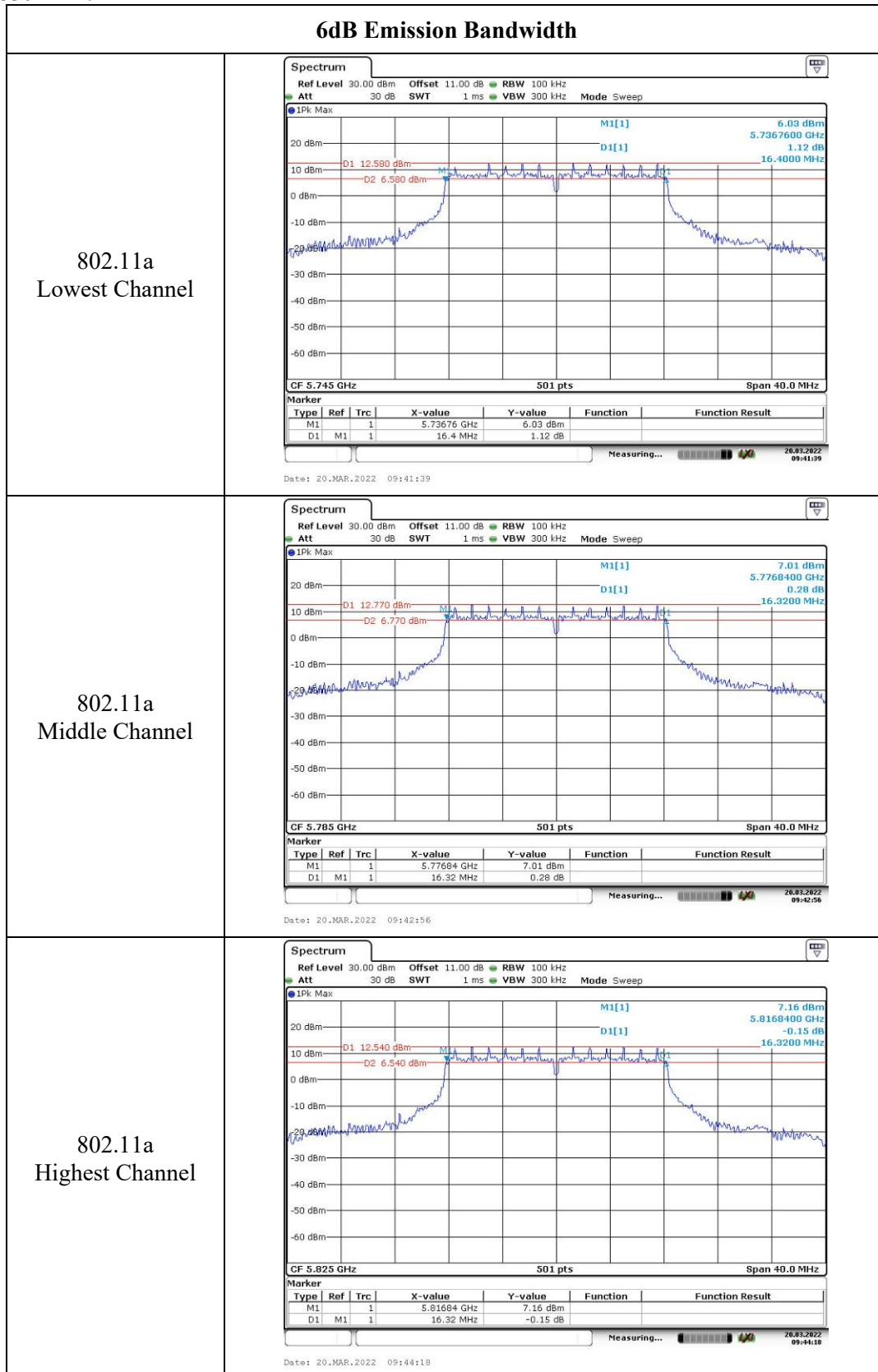
99% Emission Bandwidth

802.11ax hew40
Lowest Channel802.11ax hew40
Highest Channel802.11ax hew80
Middle Channel

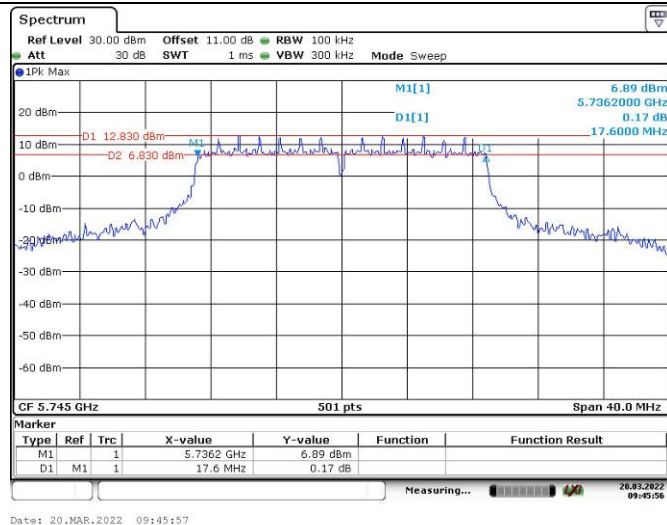
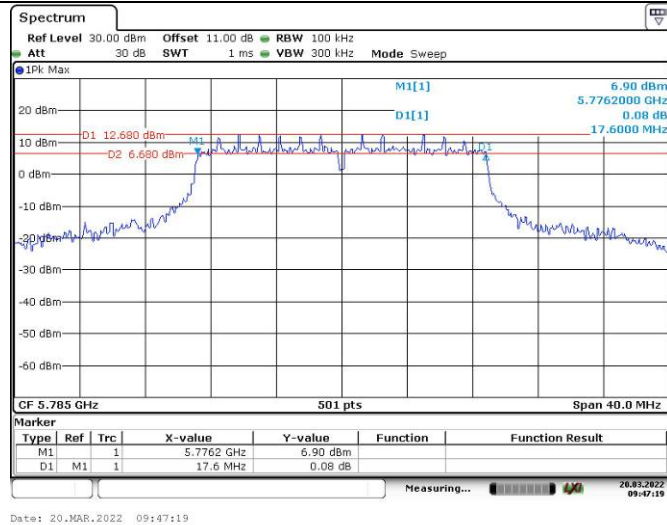
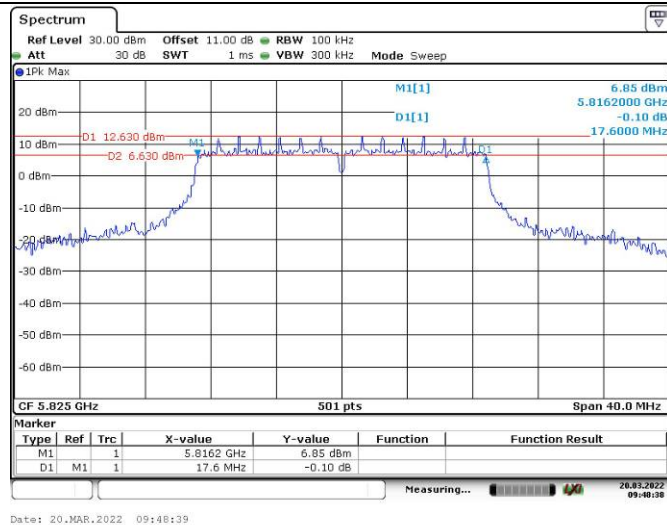
99% Emission Bandwidth

802.11ac vht160
Middle Channel802.11ax hew160
Middle Channel

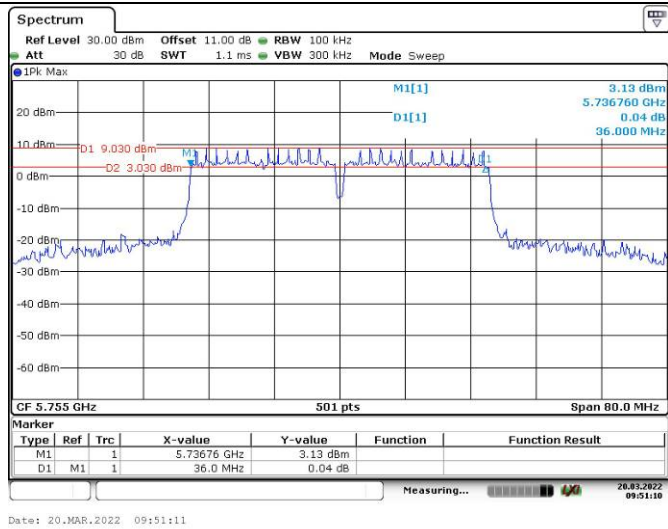
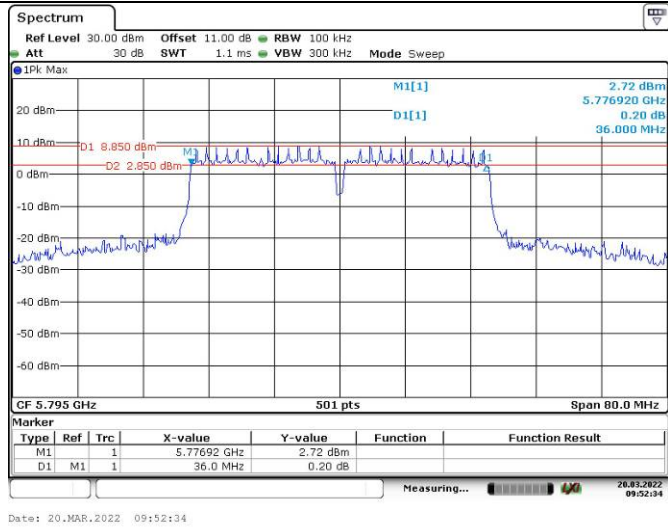
5725-5850MHz:



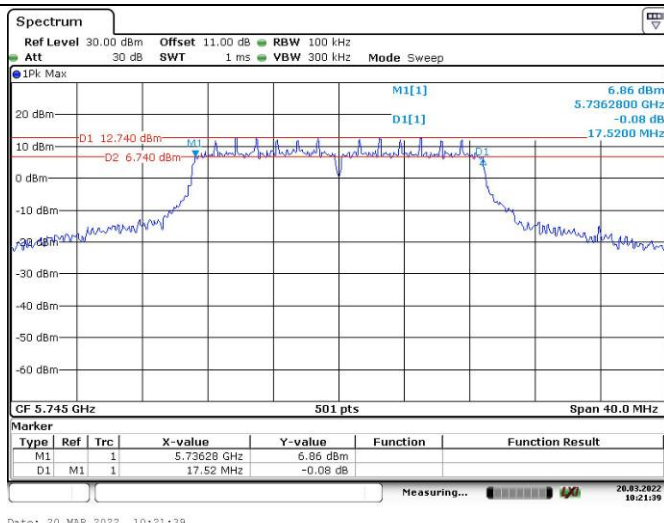
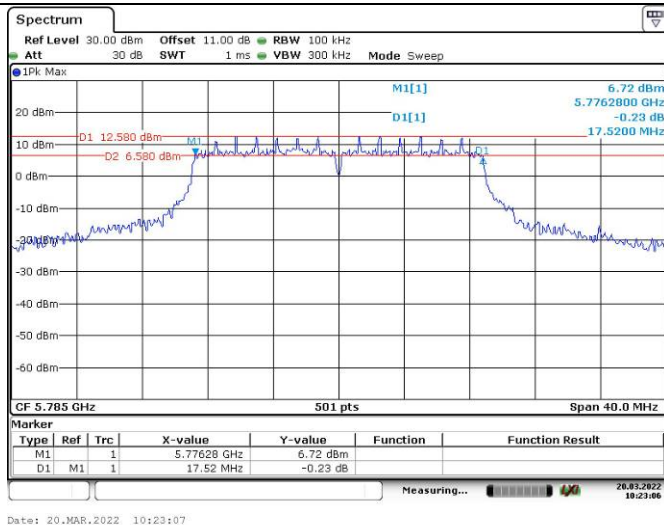
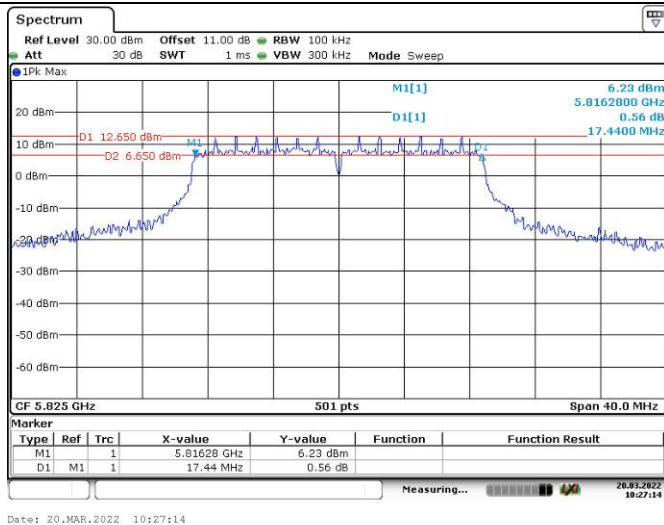
6dB Emission Bandwidth

802.11n ht20
Lowest Channel802.11n ht20
Middle Channel802.11n ht20
Highest Channel

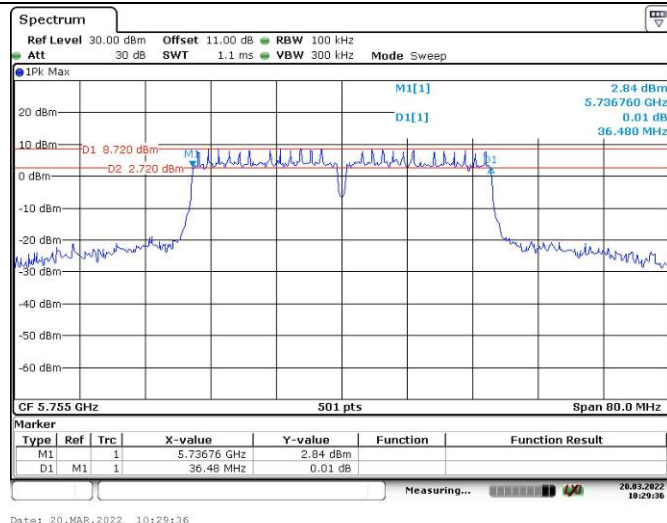
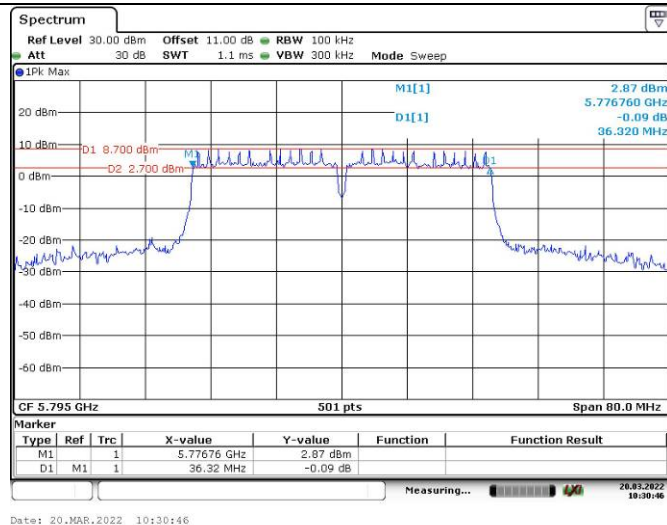
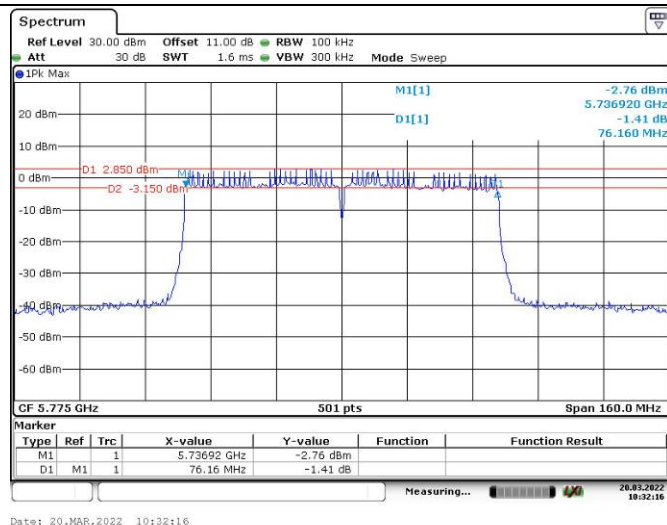
6dB Emission Bandwidth

802.11n ht40
Lowest Channel802.11n ht40
Highest Channel

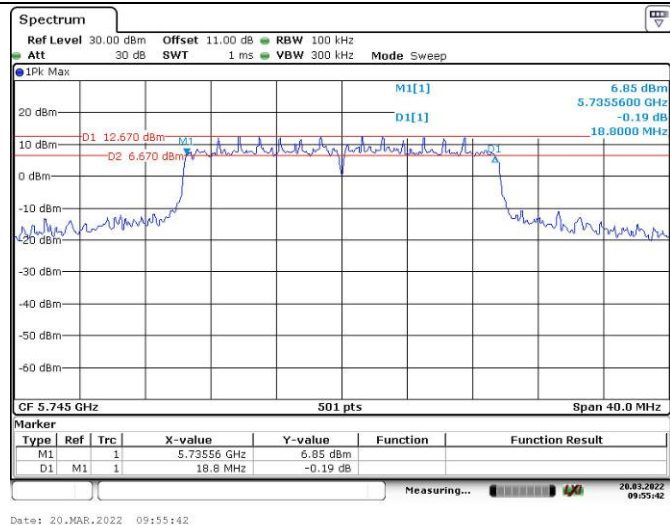
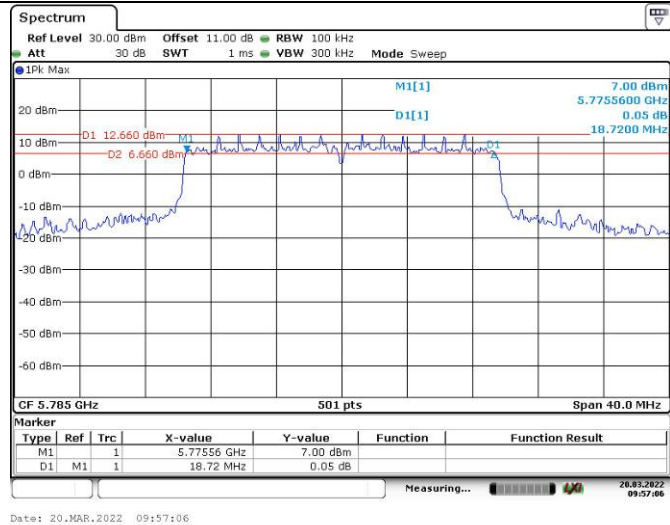
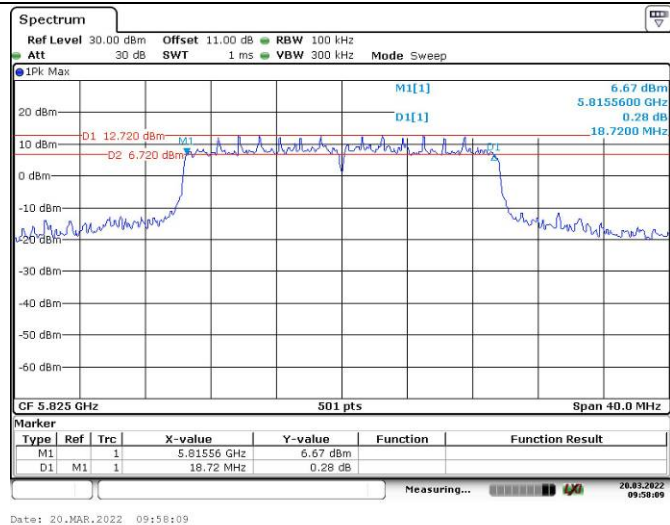
6dB Emission Bandwidth

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

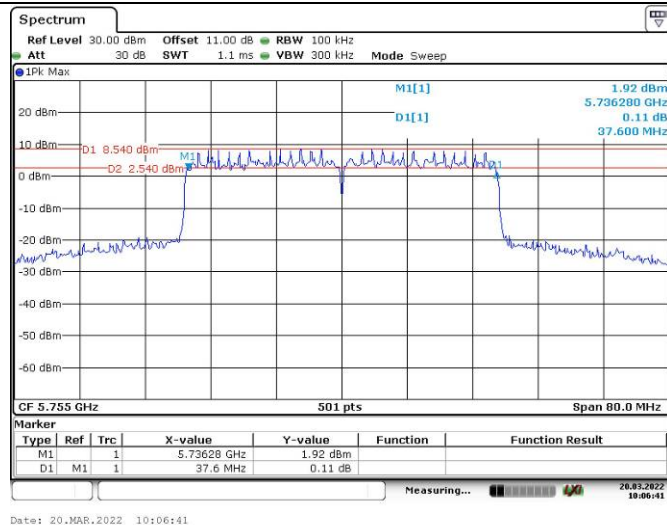
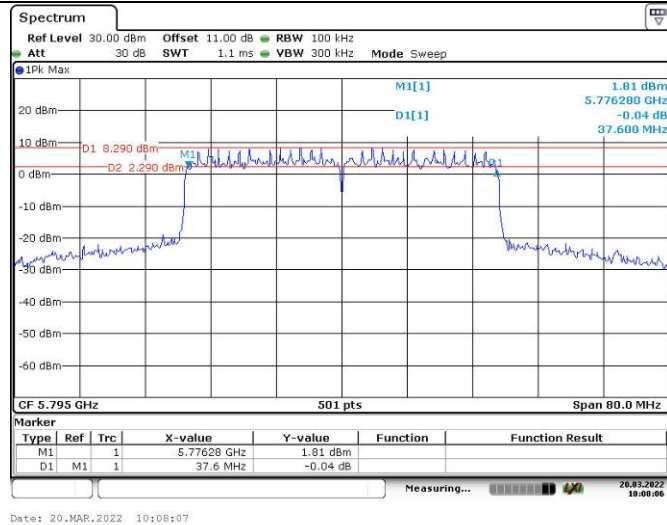
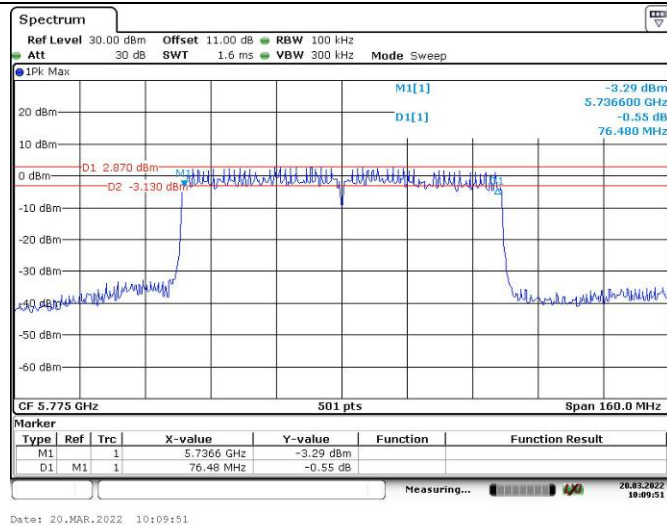
6dB Emission Bandwidth

802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

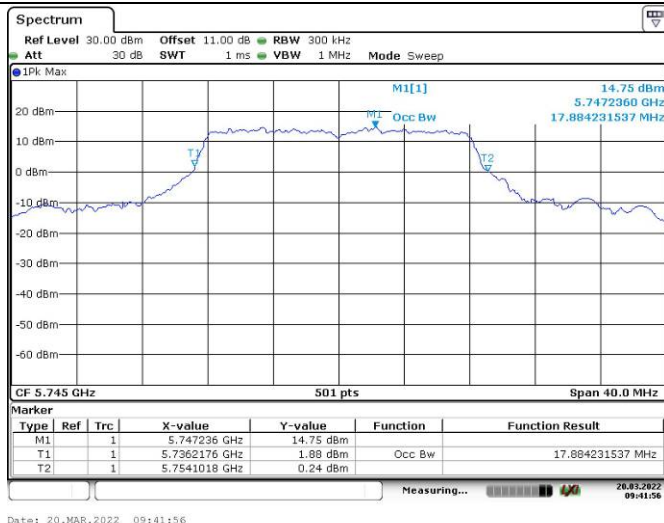
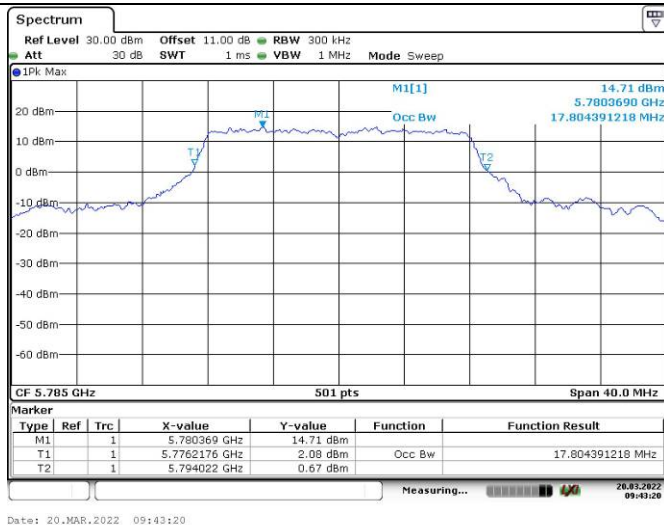
6dB Emission Bandwidth

802.11ax hew20
Lowest Channel802.11ax hew20
Middle Channel802.11ax hew20
Highest Channel

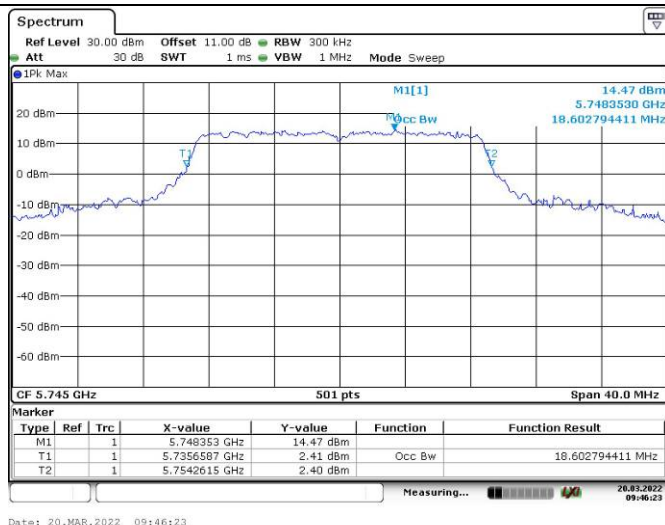
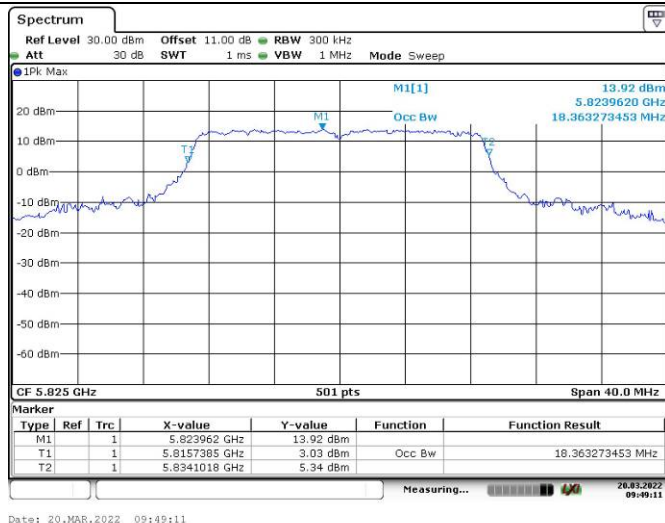
6dB Emission Bandwidth

802.11ax hew40
Lowest Channel802.11ax hew40
Highest Channel802.11ax hew80
Middle Channel

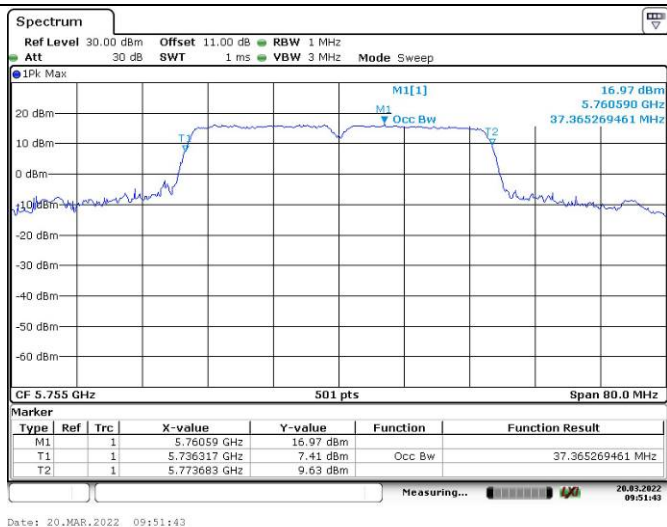
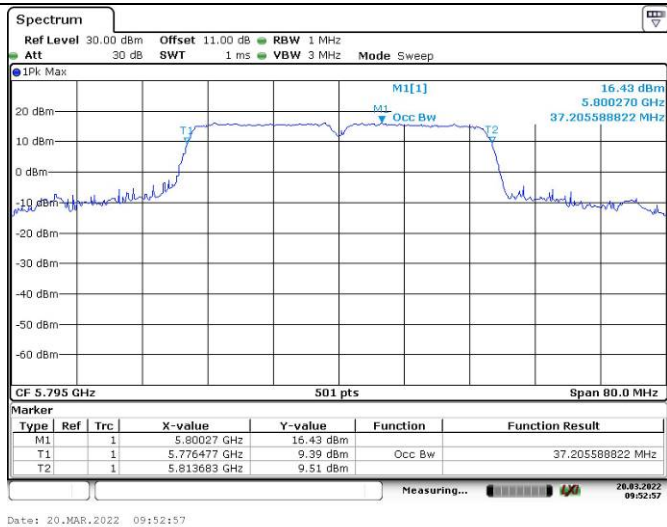
99% Emission Bandwidth

802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

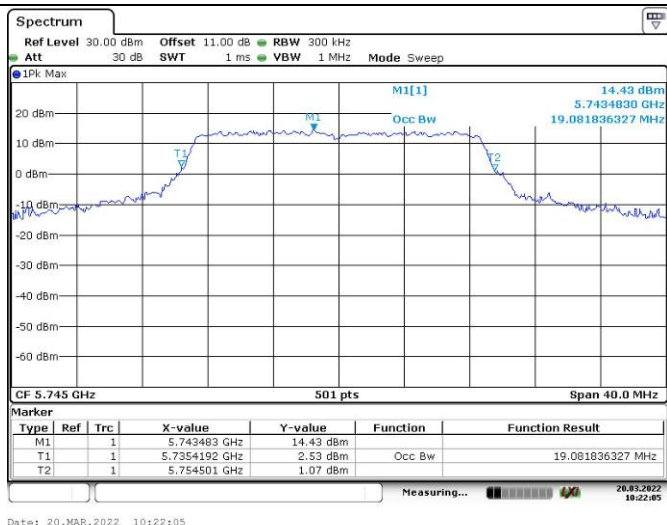
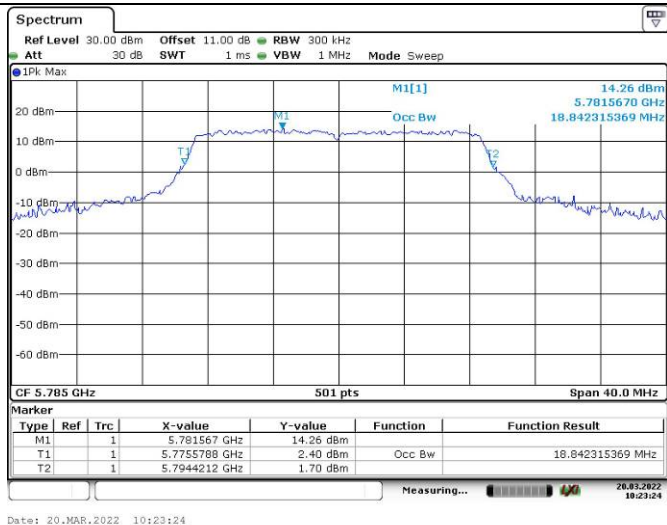
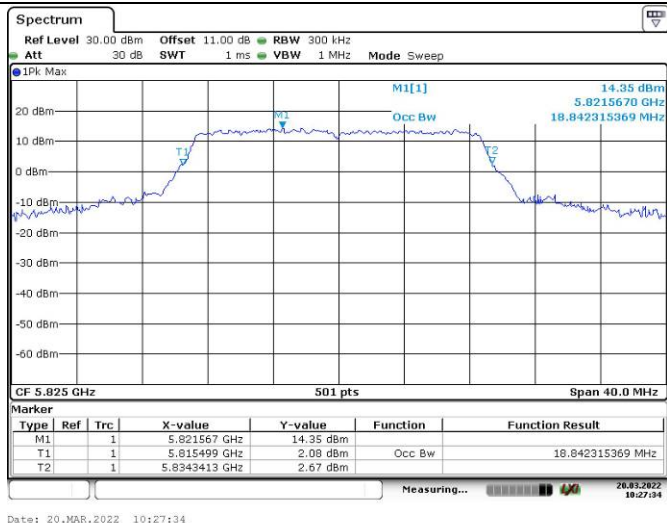
99% Emission Bandwidth

802.11n ht20
Lowest Channel802.11n ht20
Middle Channel802.11n ht20
Highest Channel

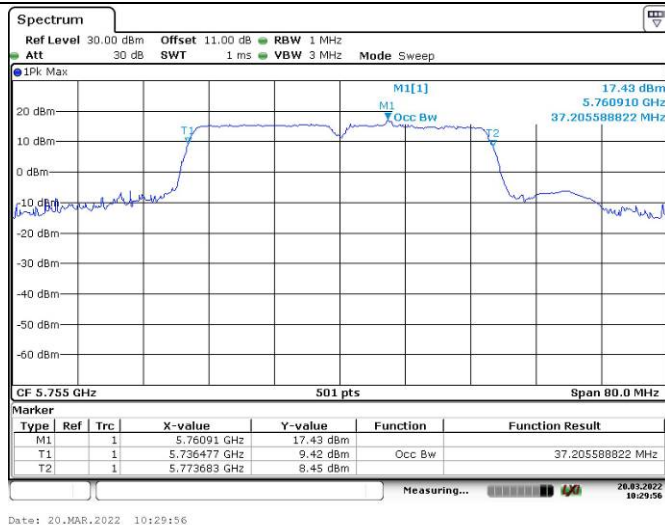
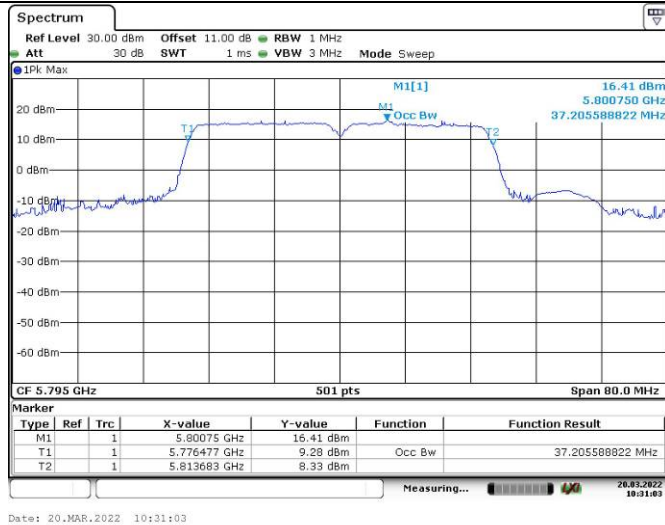
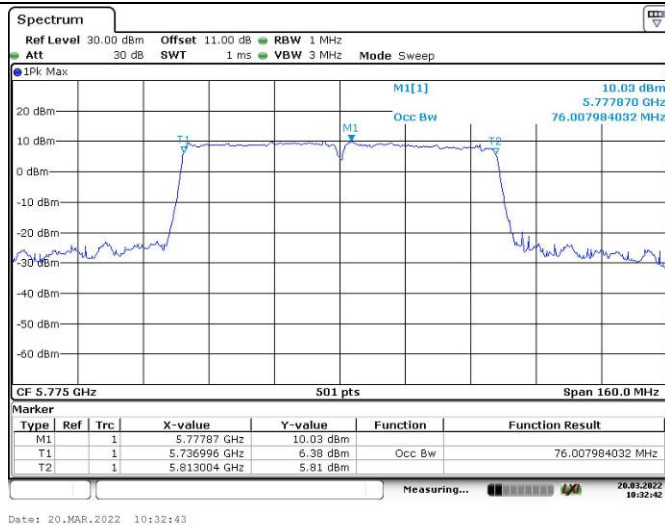
99% Emission Bandwidth

802.11n ht40
Lowest Channel802.11n ht40
Highest Channel

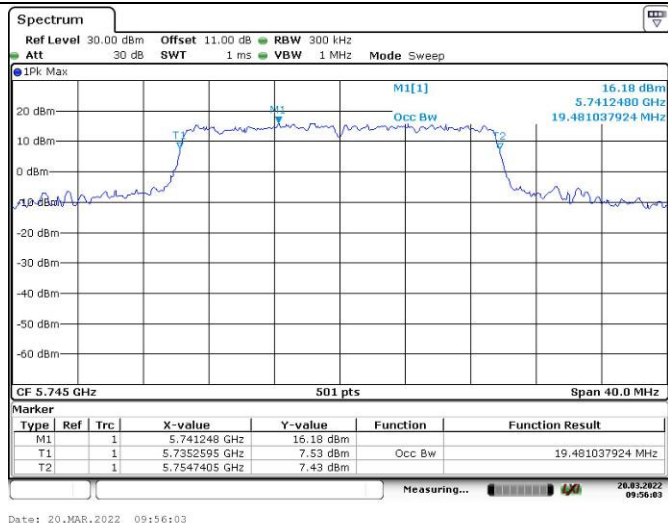
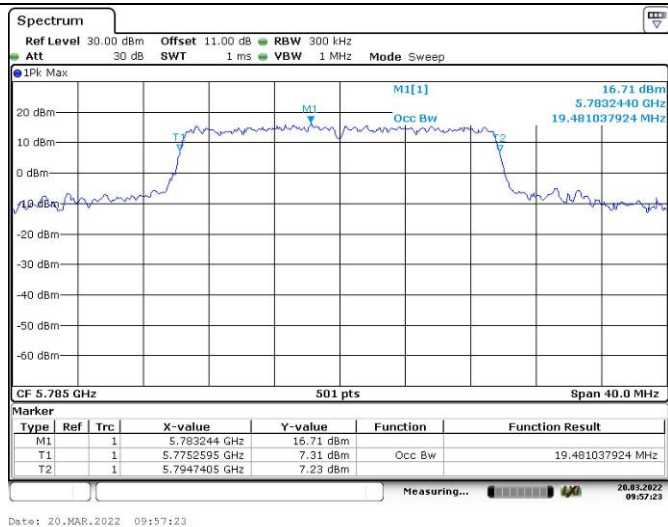
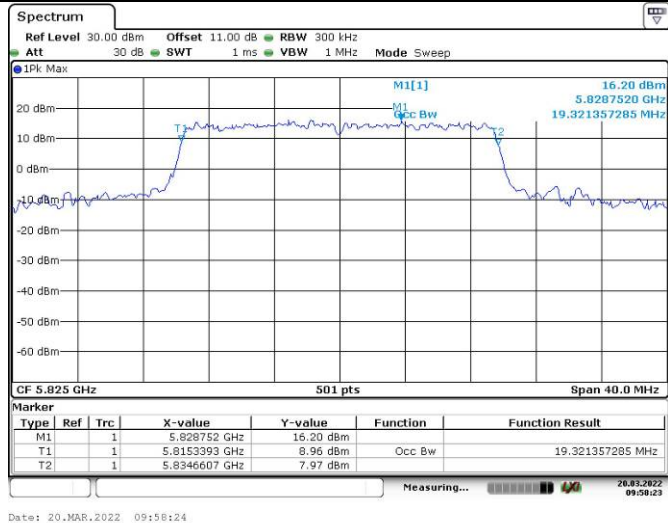
99% Emission Bandwidth

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

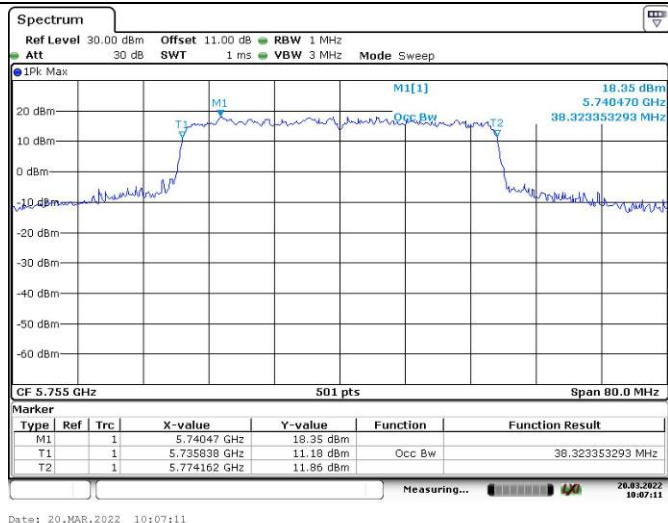
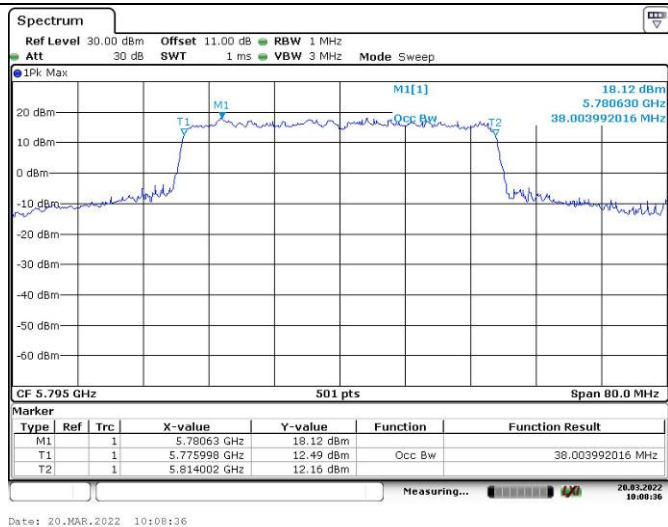
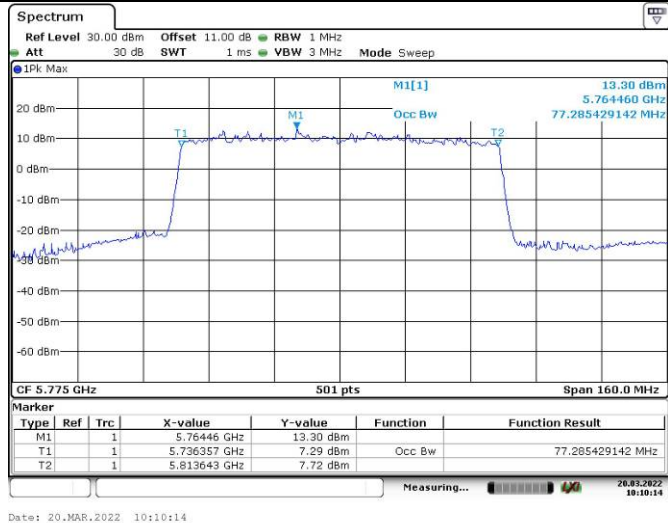
99% Emission Bandwidth

802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

99% Emission Bandwidth

802.11ax hew20
Lowest Channel802.11ax hew20
Middle Channel802.11ax hew20
Highest Channel

99% Emission Bandwidth

802.11ax hew40
Lowest Channel802.11ax hew40
Highest Channel802.11ax hew80
Middle Channel

4.4 Maximum Conducted Output Power:

Serial Number:	CR22020017-RF-S1	Test Date:	2022-03-17
Test Site:	RF	Test Mode:	Transmitting
Tester:	Carl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.3	Relative Humidity: (%)	52	ATM Pressure: (kPa)	100.4
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
Agilent	USB Wideband Power Sensor	U2021XA	MY54080015	2021-07-22	2022-07-21
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

5150-5250 MHz:

Test Modes	Test Frequency (MHz)	RU Config.	Max. Conducted Average Output Power (dBm)				
			Chain 0	Chain 1	Total	Limit For Non-beamforming	Limit For Beamforming
802.11a	5180	N/A	20.95	20.2	/	≤30	/
	5200	N/A	20.81	21.44	/	≤30	/
	5240	N/A	20.85	21.67	/	≤30	/
802.11n ht20	5180	N/A	20.14	21.19	23.71	≤30	≤28.5
	5200	N/A	20.15	20.93	23.57	≤30	≤28.5
	5240	N/A	20.12	20.88	23.53	≤30	≤28.5
802.11n ht40	5190	N/A	19.05	19.96	22.54	≤30	≤28.5
	5230	N/A	18.88	19.16	22.03	≤30	≤28.5
802.11ac vht20	5180	N/A	20.34	21.05	23.72	≤30	≤28.5
	5200	N/A	20.24	21.01	23.65	≤30	≤28.5
	5240	N/A	20.38	20.97	23.70	≤30	≤28.5
802.11ac vht40	5190	N/A	19.27	19.32	22.31	≤30	≤28.5
	5230	N/A	19.25	19.12	22.20	≤30	≤28.5
802.11ac vht80	5210	N/A	18.41	18.62	21.53	≤30	≤28.5
802.11ax hew20	5180	26/0	10.24	11.21	13.76	≤30	≤28.5
		52/37	13.55	14.39	17.00	≤30	≤28.5
		106/53	16.74	17.54	20.17	≤30	≤28.5
		242/61	19.85	20.75	23.33	≤30	≤28.5
	5200	26/0	10.39	11.01	13.72	≤30	≤28.5
		52/37	13.47	14.28	16.90	≤30	≤28.5
		106/53	16.55	17.54	20.08	≤30	≤28.5
		242/61	19.81	20.65	23.26	≤30	≤28.5
	5240	26/0	10.25	11.02	13.66	≤30	≤28.5
		52/37	13.44	14.11	16.80	≤30	≤28.5
		106/53	16.57	17.28	19.95	≤30	≤28.5
		242/61	19.67	20.55	23.14	≤30	≤28.5
802.11ax hew40	5190	26/0	7.01	7.98	10.53	≤30	≤28.5
		52/37	10.22	11.01	13.64	≤30	≤28.5
		106/53	13.24	14.21	16.76	≤30	≤28.5
		242/61	16.38	17.38	19.92	≤30	≤28.5
		484/65	19.42	20.54	23.03	≤30	≤28.5
	5230	26/0	6.47	7.05	9.78	≤30	≤28.5
		52/37	9.55	10.01	12.80	≤30	≤28.5
		106/53	12.69	13.21	15.97	≤30	≤28.5
		242/61	16.14	16.41	19.29	≤30	≤28.5
		484/65	19.28	19.52	22.41	≤30	≤28.5
802.11ax hew80	5210	26/0	2.98	3.02	6.01	≤30	≤28.5
		52/37	6.05	6.11	9.09	≤30	≤28.5
		106/53	9.21	9.25	12.24	≤30	≤28.5
		242/61	12.36	12.48	15.43	≤30	≤28.5

		484/65	15.47	15.74	18.62	≤ 30	≤ 28.5
		996/67	18.59	18.89	21.75	≤ 30	≤ 28.5

Note:

The device is an indoor AP.

The duty cycle factor has been calculated into the test data.

The maximum antenna gain is 4.5dBi in 5GHz band. Beamforming gain is 3dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

So:

For Non-beamforming mode:

Directional gain = 4.5dBi

For Beamforming mode:

Directional gain = 4.5+3 = 7.5 dBi

5250-5350 MHz:

Test Modes	Test Frequency (MHz)	RU Config.	Max. Conducted Average Output Power (dBm)				
			Chain 0	Chain 1	Total	Limit For Non-beamforming	Limit For Beamforming
802.11a	5260	N/A	19.89	20.12	/	≤24	/
	5280	N/A	19.65	19.89	/	≤24	/
	5320	N/A	19.48	19.94	/	≤24	/
802.11n ht20	5260	N/A	16.78	16.67	19.74	≤24	≤22.5
	5280	N/A	16.82	16.49	19.67	≤24	≤22.5
	5320	N/A	16.71	16.35	19.54	≤24	≤22.5
802.11n ht40	5270	N/A	18.29	19.13	21.74	≤24	≤22.5
	5310	N/A	18.23	19.03	21.66	≤24	≤22.5
802.11ac vht20	5260	N/A	16.78	16.65	19.73	≤24	≤22.5
	5280	N/A	16.75	16.51	19.64	≤24	≤22.5
	5320	N/A	16.57	16.49	19.54	≤24	≤22.5
802.11ac vht40	5270	N/A	17.94	18.63	21.31	≤24	≤22.5
	5310	N/A	17.96	18.45	21.22	≤24	≤22.5
802.11ac vht80	5290	N/A	18.38	18.83	21.62	≤24	≤22.5
802.11ax hew20	5260	26/0	7.88	7.54	10.72	≤24	≤22.5
		52/37	10.98	10.71	13.86	≤24	≤22.5
		106/53	14.01	13.87	16.95	≤24	≤22.5
		242/61	17.21	16.95	20.09	≤24	≤22.5
	5280	26/0	7.48	7.54	10.52	≤24	≤22.5
		52/37	10.87	10.71	13.80	≤24	≤22.5
		106/53	14.01	13.87	16.95	≤24	≤22.5
		242/61	17.12	16.95	20.05	≤24	≤22.5
	5320	26/0	7.51	7.02	10.28	≤24	≤22.5
		52/37	10.74	10.14	13.46	≤24	≤22.5
		106/53	13.87	13.54	16.72	≤24	≤22.5
		242/61	16.92	16.71	19.83	≤24	≤22.5
802.11ax hew40	5270	26/0	5.47	5.74	8.62	≤24	≤22.5
		52/37	8.74	8.98	11.87	≤24	≤22.5
		106/53	11.87	12.28	15.09	≤24	≤22.5
		242/61	15.00	15.48	18.26	≤24	≤22.5
		484/65	18.03	18.77	21.43	≤24	≤22.5
	5310	26/0	5.02	5.47	8.26	≤24	≤22.5
		52/37	8.14	8.98	11.59	≤24	≤22.5
		106/53	11.57	12.25	14.93	≤24	≤22.5
		242/61	14.81	15.44	18.15	≤24	≤22.5
		484/65	17.92	18.56	21.26	≤24	≤22.5
802.11ax hew80	5290	26/0	2.47	2.01	5.26	≤24	≤22.5
		52/37	5.64	5.36	8.51	≤24	≤22.5
		106/53	8.78	8.97	11.89	≤24	≤22.5
		242/61	11.98	12.01	15.01	≤24	≤22.5

		484/65	15.14	15.32	18.24	≤ 24	≤ 22.5
		996/67	18.27	18.5	21.40	≤ 24	≤ 22.5
802.11ac hew160	5250	N/A	16.45	16.48	19.48	≤ 24	≤ 22.5
802.11ax hew160	5250	26/0	-2.87	-2.55	0.30	≤ 24	≤ 22.5
		52/37	0.87	0.98	3.94	≤ 24	≤ 22.5
		106/53	3.98	4.02	7.01	≤ 24	≤ 22.5
		242/61	7.22	7.14	10.19	≤ 24	≤ 22.5
		484/65	10.28	10.28	13.29	≤ 24	≤ 22.5
		996/67	13.44	13.47	16.47	≤ 24	≤ 22.5
		996*2	16.48	16.83	19.67	≤ 24	≤ 22.5

Note:

The duty cycle factor has been calculated into the test data.

The maximum antenna gain is 4.5dBi in 5GHz band. Beamforming gain is 3dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{ANT} \leq 4$;

So:

For Non-beamforming mode:

Directional gain = 4.5dBi

For Beamforming mode:

Directional gain = 4.5+3 = 7.5 dBi

5725-5850 MHz:

Test Modes	Test Frequency (MHz)	RU Config.	Max. Conducted Average Output Power (dBm)				
			Chain 0	Chain 1	Total	Limit For Non-beamforming	Limit For Beamforming
802.11a	5745	N/A	23.99	23.92	/	≤30	/
	5785	N/A	23.81	23.87	/	≤30	/
	5825	N/A	23.62	20.72	/	≤30	/
802.11n ht20	5745	N/A	23.75	24.05	26.91	≤30	≤28.5
	5785	N/A	23.76	24.14	26.96	≤30	≤28.5
	5825	N/A	23.69	24.07	26.89	≤30	≤28.5
802.11n ht40	5755	N/A	23.02	23.03	26.04	≤30	≤28.5
	5795	N/A	22.92	22.82	25.88	≤30	≤28.5
802.11ac vht20	5745	N/A	24.11	24.28	27.21	≤30	≤28.5
	5785	N/A	23.98	24.25	27.13	≤30	≤28.5
	5825	N/A	23.78	24.04	26.92	≤30	≤28.5
802.11ac vht40	5755	N/A	23.19	22.83	26.02	≤30	≤28.5
	5795	N/A	22.55	22.65	25.61	≤30	≤28.5
802.11ac vht80	5775	N/A	19.41	20.71	23.12	≤30	≤28.5
802.11ax hew20	5745	26/0	14.98	14.47	17.74	≤30	≤28.5
		52/37	18.04	17.87	20.97	≤30	≤28.5
		106/53	21.21	21.14	24.19	≤30	≤28.5
		242/61	24.34	24.4	27.38	≤30	≤28.5
	5785	26/0	14.54	14.88	17.72	≤30	≤28.5
		52/37	17.58	17.98	20.79	≤30	≤28.5
		106/53	20.99	21.25	24.13	≤30	≤28.5
		242/61	24.04	24.34	27.20	≤30	≤28.5
	5825	26/8	14.77	14.57	17.68	≤30	≤28.5
		52/40	17.98	17.87	20.94	≤30	≤28.5
		106/54	21.01	21.01	24.02	≤30	≤28.5
		242/61	24.07	24.25	27.17	≤30	≤28.5
802.11ax hew40	5755	26/0	9.77	10.24	13.02	≤30	≤28.5
		52/37	12.98	13.58	16.30	≤30	≤28.5
		106/53	16.25	16.98	19.64	≤30	≤28.5
		242/61	19.47	20.14	22.83	≤30	≤28.5
		484/65	22.72	23.26	26.01	≤30	≤28.5
	5795	26/0	10.01	10.21	13.12	≤30	≤28.5
		52/37	13.25	13.45	16.36	≤30	≤28.5
		106/53	16.47	16.74	19.62	≤30	≤28.5
		242/61	19.54	19.87	22.72	≤30	≤28.5
		484/65	22.69	23.18	25.95	≤30	≤28.5
802.11ax hew80	5775	26/0	4.02	4.02	7.03	≤30	≤28.5
		52/37	7.14	7.54	10.35	≤30	≤28.5
		106/53	10.36	10.74	13.56	≤30	≤28.5
		242/61	13.54	13.87	16.72	≤30	≤28.5

		484/65	16.57	17.00	19.80	≤ 30	≤ 28.5
		996/67	19.74	20.12	22.94	≤ 30	≤ 28.5

Note:

The duty cycle factor has been calculated into the test data.

The maximum antenna gain is 4.5dBi in 5GHz band. Beamforming gain is 3dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power measurements on IEEE 802.11 devices:

Array Gain = 0 dB (i.e., no array gain) for $N_{\text{ANT}} \leq 4$;

So:

For Non-beamforming mode:

Directional gain = 4.5dBi

For Beamforming mode:

Directional gain = 4.5+3 = 7.5 dBi

4.5 Maximum power spectral density:

Serial Number:	CR22020017-RF-S1	Test Date:	2022-03-17~2022-07-28
Test Site:	RF	Test Mode:	Transmitting
Tester:	Carl Liang	Test Result:	Pass

Environmental Conditions:

Temperature: (°C)	21.3~25.8	Relative Humidity: (%)	52~67	ATM Pressure: (kPa)	100.4~100.7
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Test Equipment List and Details:

Manufacturer	Description	Model	Serial Number	Calibration Date	Calibration Due Date
R&S	Spectrum Analyzer	FSV40	101943	2021-10-10	2022-10-09
zhuoxiang	Coaxial Cable	SMA-178	211002	Each time	N/A
Mini-Circuits	DC Block	BLK-18-S+	1554403	Each time	N/A
eastsheep	Coaxial Attenuator	2W-SMA-JK-18G	21060301	Each time	N/A

** Statement of Traceability: China Certification ICT Co., Ltd (Dongguan) attests that all calibrations have been performed, traceable to National Primary Standards and International System of Units (SI).*

Test Data:

5150-5250 MHz:

Test Modes	Test Frequency (MHz)	Maximum Power Spectral Density (dBm/MHz)			
		Chain 0	Chain 1	Total	Limit
802.11a	5180	10.39	9.71	/	≤17.00
	5200	10.54	11.17	/	≤17.00
	5240	10.24	11.15	/	≤17.00
802.11n ht20	5180	8	10.18	12.24	≤12.50
	5200	7.71	9.56	11.74	≤12.50
	5240	8.06	9.8	12.03	≤12.50
802.11n ht40	5190	5.61	6.46	9.07	≤12.50
	5230	5.41	6.7	9.11	≤12.50
802.11ac vht20	5180	8.39	10.29	12.45	≤12.50
	5200	8.3	10.2	12.36	≤12.50
	5240	8.37	10.3	12.45	≤12.50
802.11ac vht40	5190	5.5	6.03	8.78	≤12.50
	5230	5.41	6.05	8.75	≤12.50
802.11ac vht80	5210	2.11	2.85	5.51	≤12.50
802.11ax hew20	5180	-2.67	-1.84	0.78	≤12.50
	5200	8.79	9.91	12.40	≤12.50
	5240	8.85	9.96	12.45	≤12.50
802.11ax hew40	5190	8.7	9.9	12.35	≤12.50
	5230	5.79	6.29	9.06	≤12.50
802.11ax hew80	5210	5.76	6.47	9.14	≤12.50

Note :

The device is a Indoor AP.

Method SA-3 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01 was used for PSD test

The maximum antenna gain is 4.5 dBi. And beamforming gain is 3dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

$$\text{Array Gain} = 10 \log(N_{\text{ANT}}/N_{\text{SS}}) \text{ dB.}$$

So:

$$\text{Directional gain} = G_{\text{ANT}} + \text{Array Gain} = 4.5 + 10 \cdot \log(2/1) = 7.5 \text{ dBi for Non-beamforming mode}$$

$$\text{Directional gain} = G_{\text{ANT}} + \text{Array Gain} = 4.5 + 3 + 10 \cdot \log(2/1) = 10.5 \text{ dBi for Beamforming mode}$$

The worst limit Beamforming mode was used in the table.

5250-5350 MHz:

Test Modes	Test Frequency (MHz)	Maximum Power Spectral Density (dBm/MHz)			
		Chain 0	Chain 1	Total	Limit
802.11a	5260	8.69	8.93	/	≤11.00
	5280	8.59	8.99	/	≤11.00
	5320	8.48	8.74	/	≤11.00
802.11n ht20	5260	2.7	3.99	6.40	≤6.50
	5280	2.72	4.11	6.48	≤6.50
	5320	2.74	3.93	6.39	≤6.50
802.11n ht40	5270	2.55	4.08	6.39	≤6.50
	5310	2.31	3.73	6.09	≤6.50
802.11ac vht20	5260	2.47	4.17	6.41	≤6.50
	5280	2.27	4.11	6.30	≤6.50
	5320	2.42	3.98	6.28	≤6.50
802.11ac vht40	5270	3.05	3.85	6.48	≤6.50
	5310	2.63	3.29	5.98	≤6.50
802.11ac vht80	5290	2.44	3.03	5.76	≤6.50
802.11ax hew20	5260	3.49	2.42	6.00	≤6.50
	5280	3.58	2.09	5.91	≤6.50
	5320	3.59	2.04	5.89	≤6.50
802.11ax hew40	5270	3.52	3.37	6.46	≤6.50
	5310	3.14	2.98	6.07	≤6.50
802.11ax hew80	5290	2.98	3.71	6.37	≤6.50
802.11ac vht160	5250	-2.67	-1.84	0.78	≤6.50
802.11ax hew160	5250	-2.63	-1.81	0.81	≤6.50

Note :

The device is a Indoor AP.

Method SA-3 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01 was used for PSD test

The maximum antenna gain is 4.5 dBi. And beamforming gain is 3dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

$$\text{Array Gain} = 10 \log(N_{\text{ANT}}/N_{\text{SS}}) \text{ dB.}$$

So:

Directional gain = $G_{\text{ANT}} + \text{Array Gain} = 4.5 + 10 \cdot \log(2/1) = 7.5 \text{ dBi}$ for Non-beamforming modeDirectional gain = $G_{\text{ANT}} + \text{Array Gain} = 4.5 + 3 + 10 \cdot \log(2/1) = 10.5 \text{ dBi}$ for Beamforming mode

The worst limit Beamforming mode was used in the table.

5725-5850 MHz:

Test Modes	Test Frequency (MHz)	Reading (dBm/300kHz)		Maximum Power Spectral Density (dBm/500kHz)			
		Chain 0	Chain 1	Chain 0	Chain 1	Total	Limit
802.11a	5745	10.39	10.48	12.61	12.7	/	≤30
	5785	10.24	10.59	12.46	12.81	/	≤30
	5825	10.1	10.31	12.32	12.53	/	≤30
802.11n ht20	5745	10.29	10.82	12.51	13.04	15.79	≤25.5
	5785	10.33	10.84	12.55	13.06	15.82	≤25.5
	5825	10.37	10.51	12.59	12.73	15.67	≤25.5
802.11n ht40	5755	6.62	6.89	8.84	9.11	11.99	≤25.5
	5795	6.37	6.67	8.59	8.89	11.75	≤25.5
802.11ac vht20	5745	10.39	10.94	12.61	13.16	15.90	≤25.5
	5785	10.43	10.96	12.65	13.18	15.93	≤25.5
	5825	10.23	10.81	12.45	13.03	15.76	≤25.5
802.11ac vht40	5755	6.09	6.66	8.31	8.88	11.61	≤25.5
	5795	6.12	6.57	8.34	8.79	11.58	≤25.5
802.11ac vht80	5775	0.29	0.57	2.51	2.79	5.66	≤25.5
802.11ax hew20	5745	10.73	10.72	12.95	12.94	15.96	≤25.5
	5785	10.63	10.69	12.85	12.91	15.89	≤25.5
	5825	10.34	10.72	12.56	12.94	15.76	≤25.5
802.11ax hew40	5755	6.13	6.89	8.35	9.11	11.76	≤25.5
	5795	6.09	6.65	8.31	8.87	11.61	≤25.5
802.11ax hew80	5775	0.24	0.95	2.46	3.17	5.84	≤25.5

Note :

Method SA-3 in KDB 789033 D02 General UNII Test Procedures New Rules v02r01 was used for PSD test

If measurement bandwidth of Maximum PSD is specified in 500 kHz, add $10\log(500\text{kHz}/\text{RBW})$ to the measured result, whereas RBW (< 500 KHz) is the reduced resolution bandwidth of the spectrum analyzer set during measurement

The maximum antenna gain is 4.5 dBi. And beamforming gain is 3dBi. The device employed Cyclic Delay Diversity (CDD) for 802.11 MIMO transmitting, per KDB 662911 D01 Multiple Transmitter Output v02r01, for power spectral density (PSD) measurements on the devices:

$$\text{Array Gain} = 10 \log(N_{\text{ANT}}/N_{\text{SS}}) \text{ dB.}$$

So:

Directional gain = $G_{\text{ANT}} + \text{Array Gain} = 4.5 + 10 \cdot \log(2/1) = 7.5 \text{ dBi}$ for Non-beamforming mode

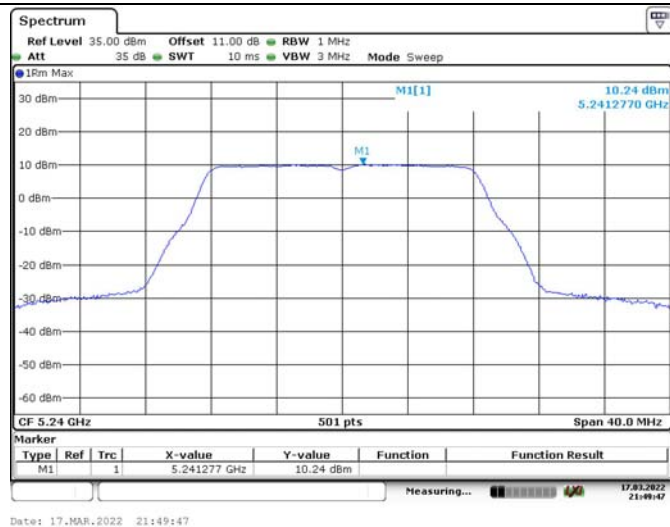
Directional gain = $G_{\text{ANT}} + \text{Array Gain} = 4.5 + 3 + 10 \cdot \log(2/1) = 10.5 \text{ dBi}$ for Beamforming mode

The worst limit Beamforming mode was used in the table.

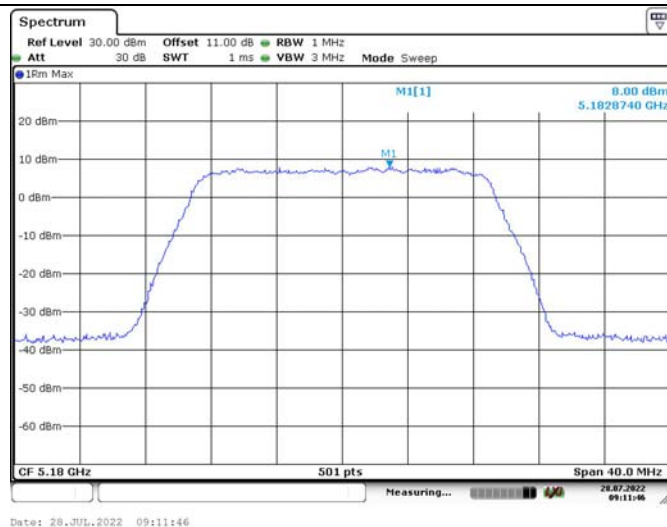
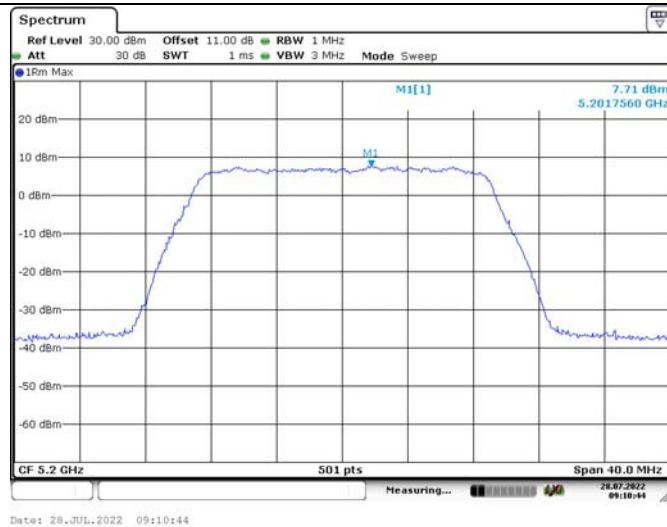
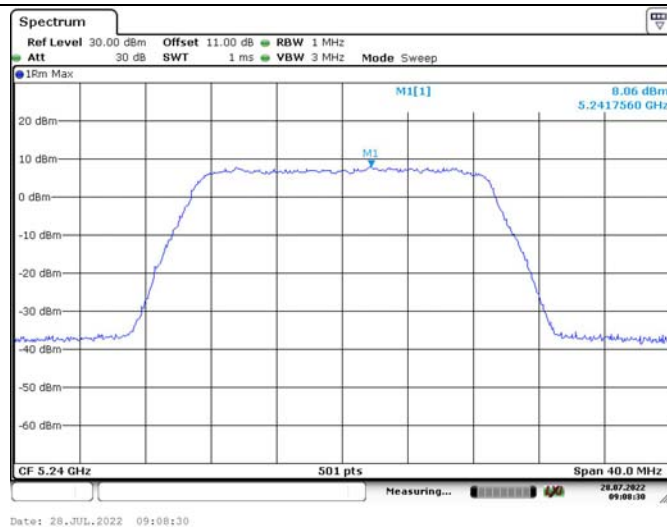
5150-5250MHz:

Chain 0:

Maximum power spectral density

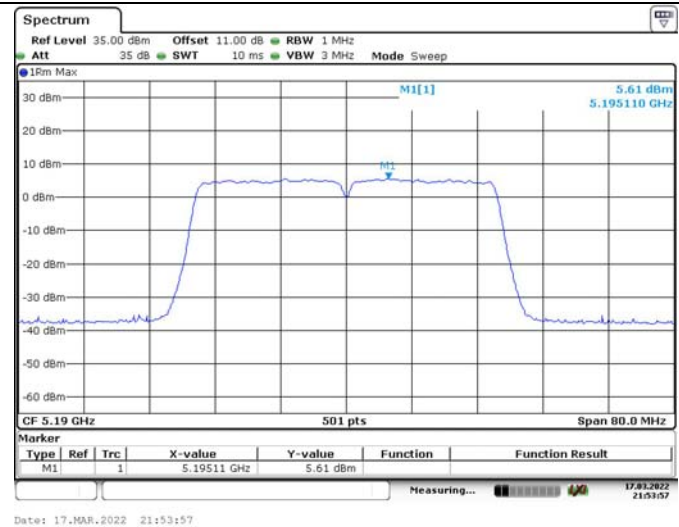
802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

Maximum power spectral density

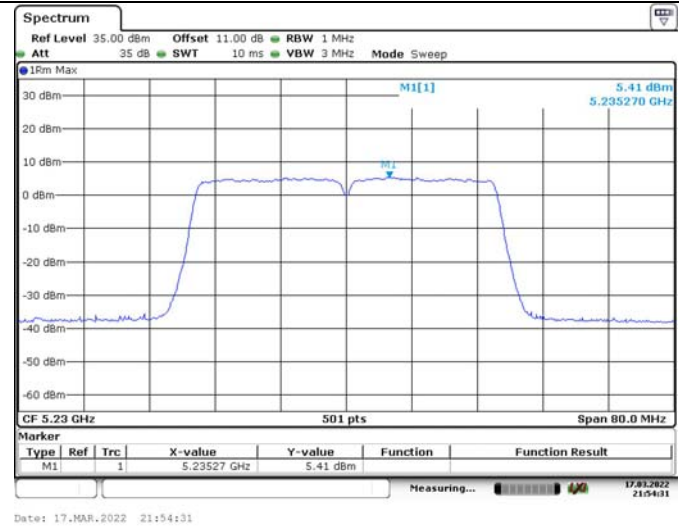
802.11n ht20
Lowest Channel802.11n ht20
Middle Channel802.11n ht20
Highest Channel

Maximum power spectral density

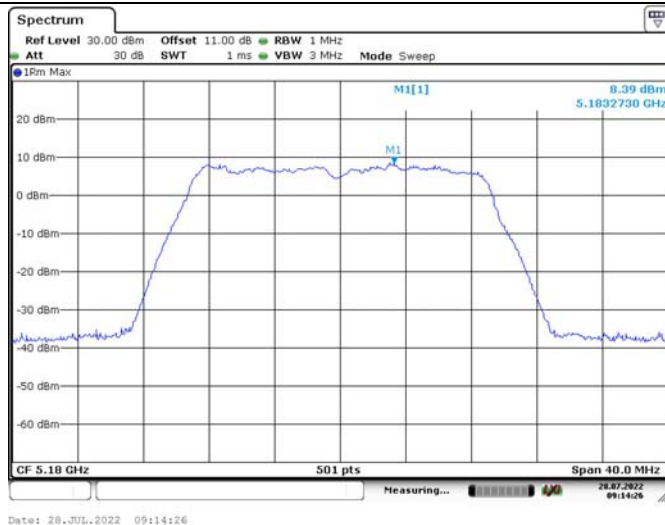
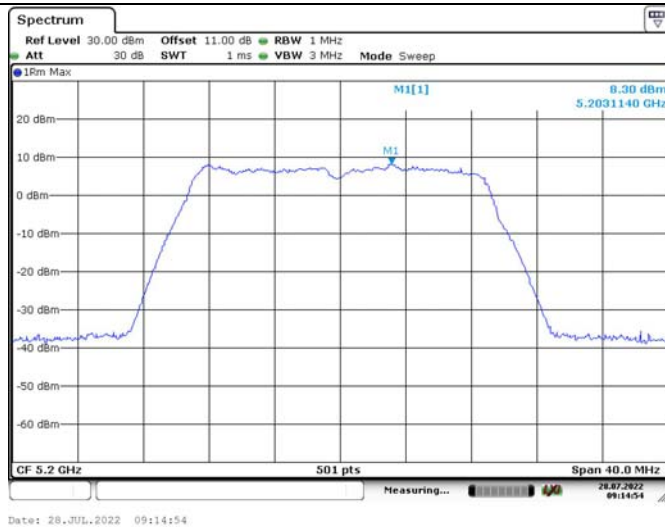
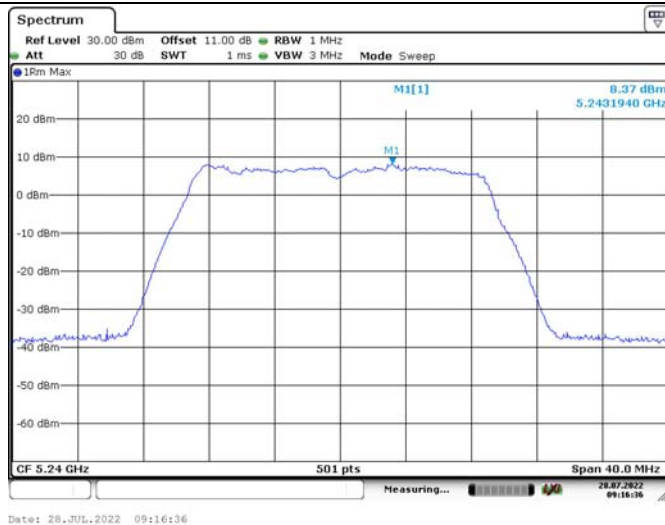
802.11n ht40
Lowest Channel



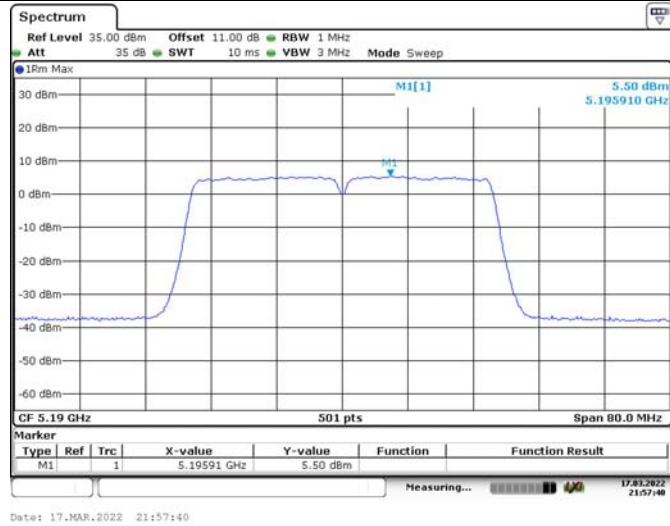
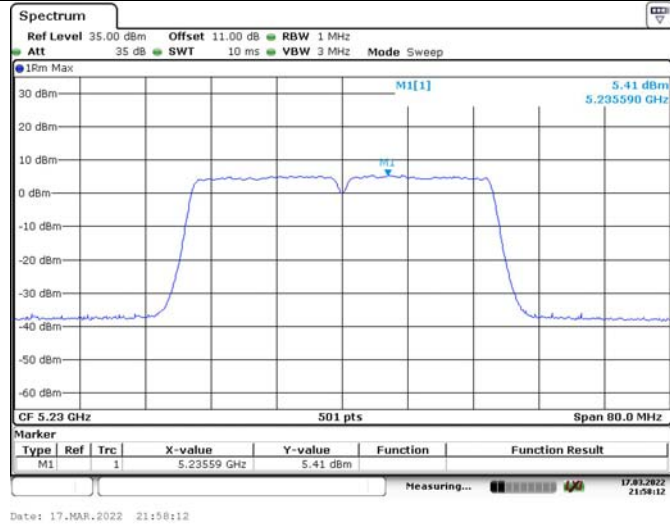
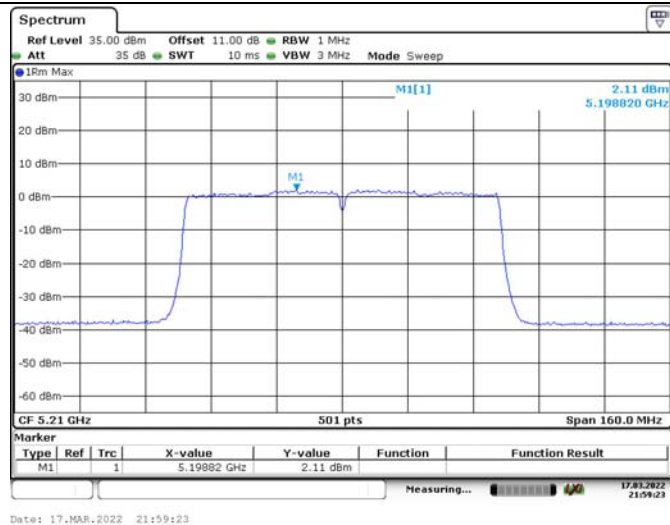
802.11n ht40
Highest Channel



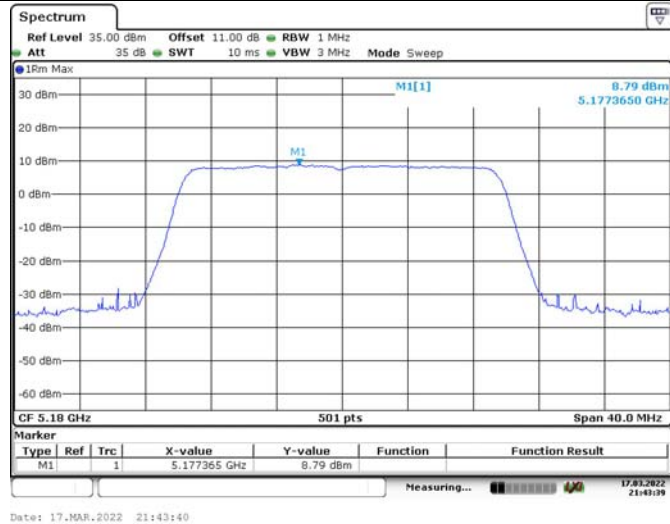
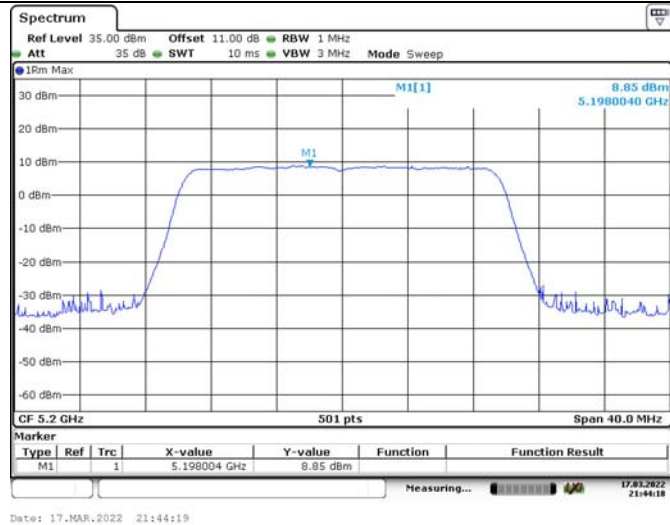
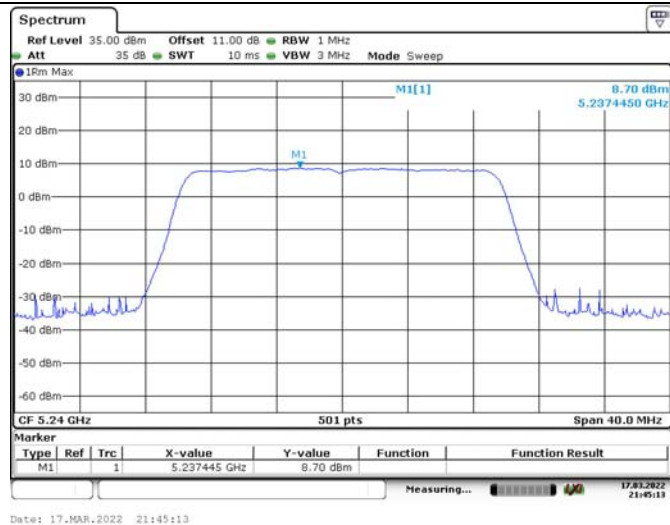
Maximum power spectral density

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

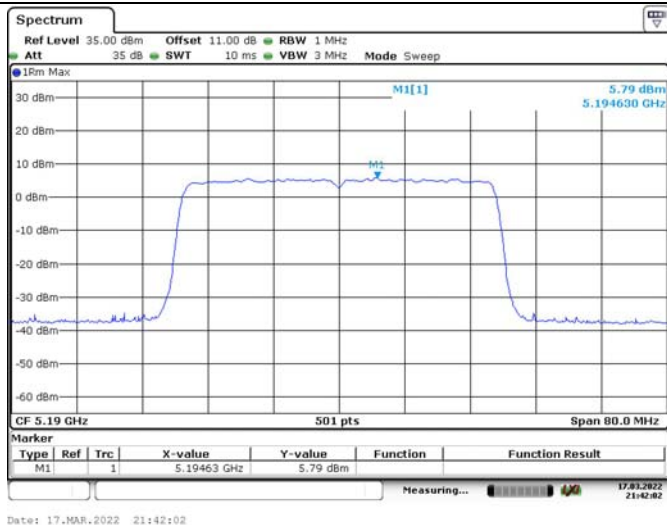
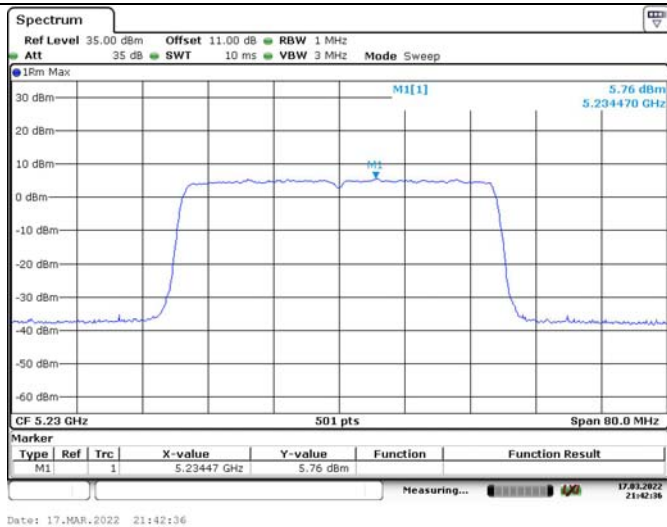
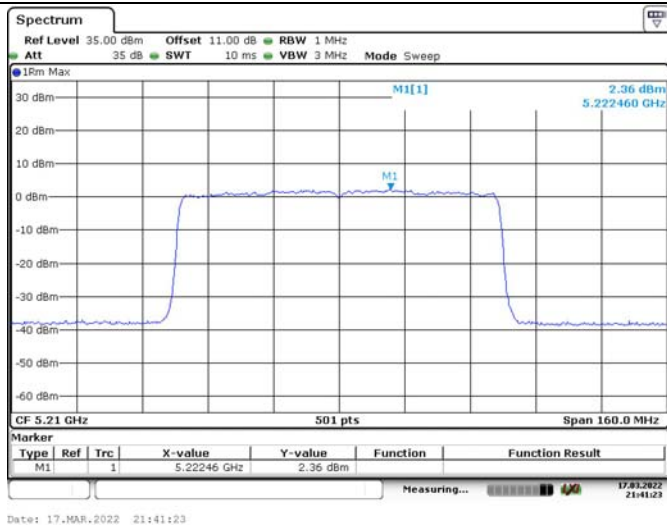
Maximum power spectral density

802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

Maximum power spectral density

802.11ax hew20
Lowest Channel802.11ax hew20
Middle Channel802.11ax hew20
Highest Channel

Maximum power spectral density

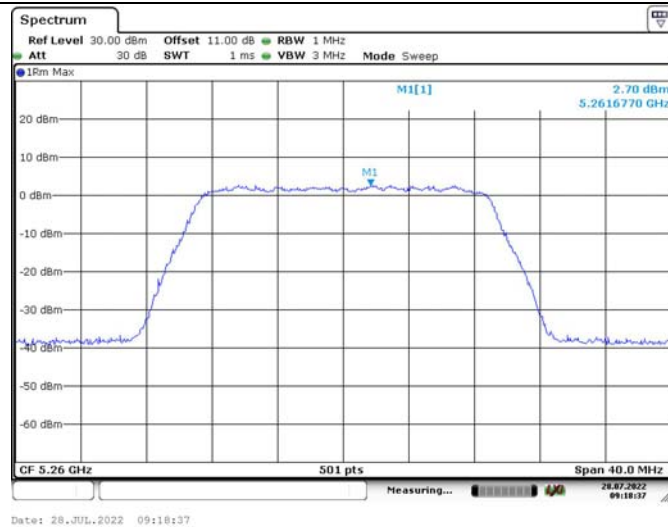
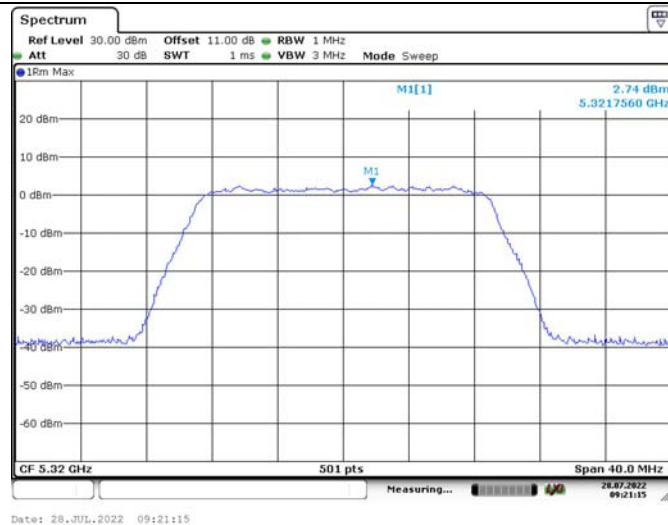
802.11ax hew40
Lowest Channel802.11ax hew40
Highest Channel802.11ax hew80
Middle Channel

5250-5350MHz:

Maximum power spectral density

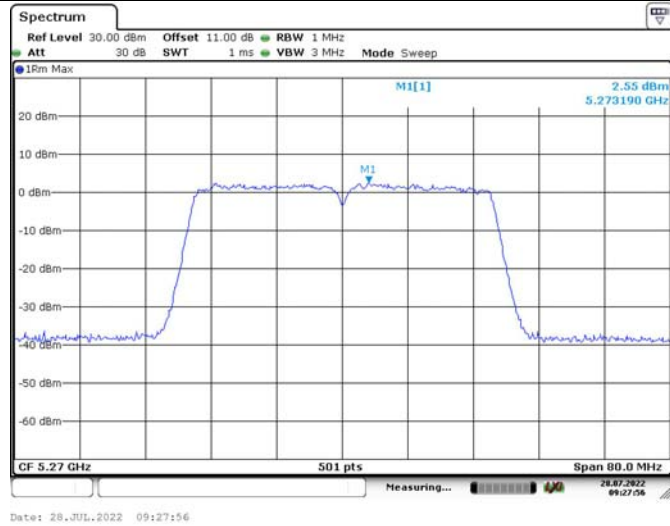
802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

Maximum power spectral density

802.11n ht20
Lowest Channel802.11n ht20
Middle Channel802.11n ht20
Highest Channel

Maximum power spectral density

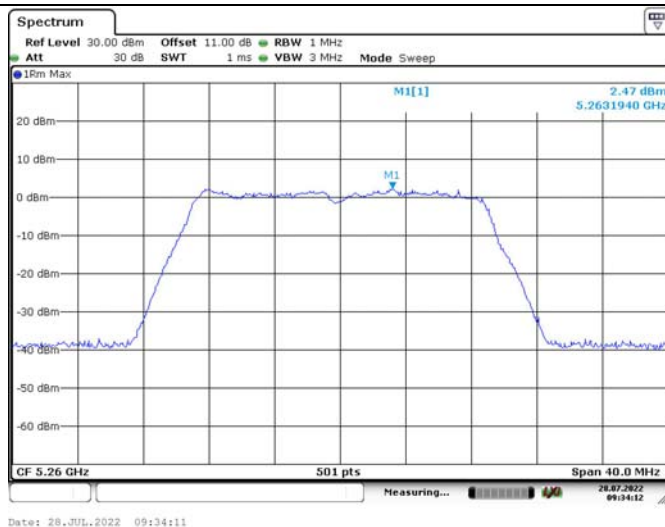
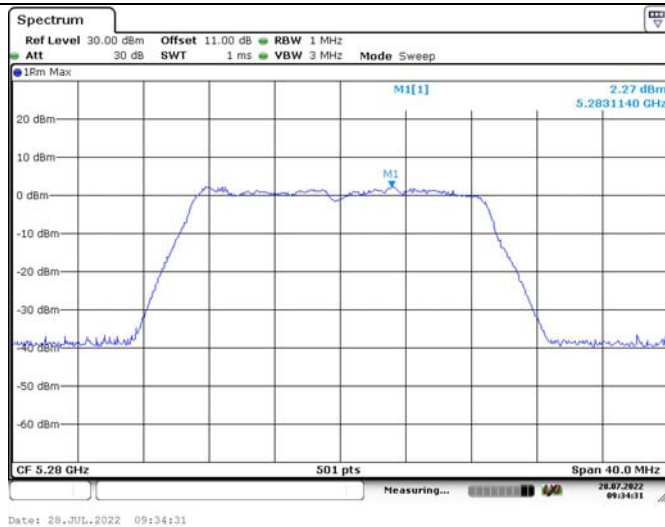
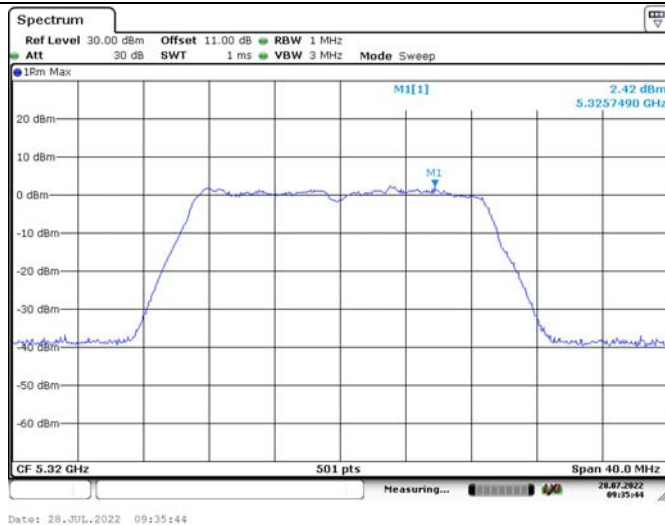
802.11n ht40
Lowest Channel



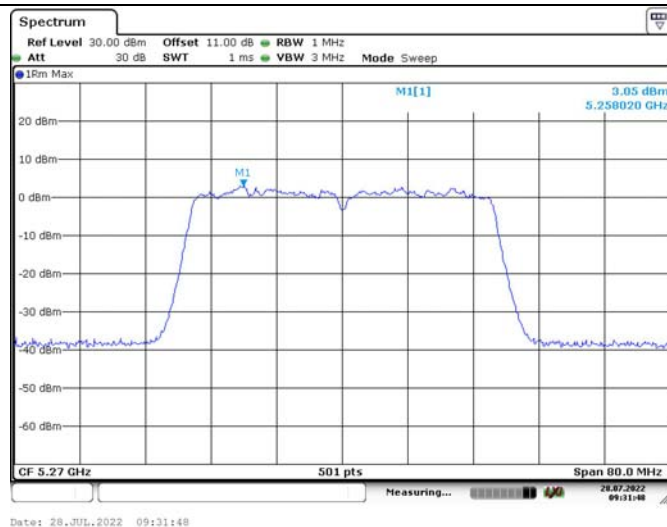
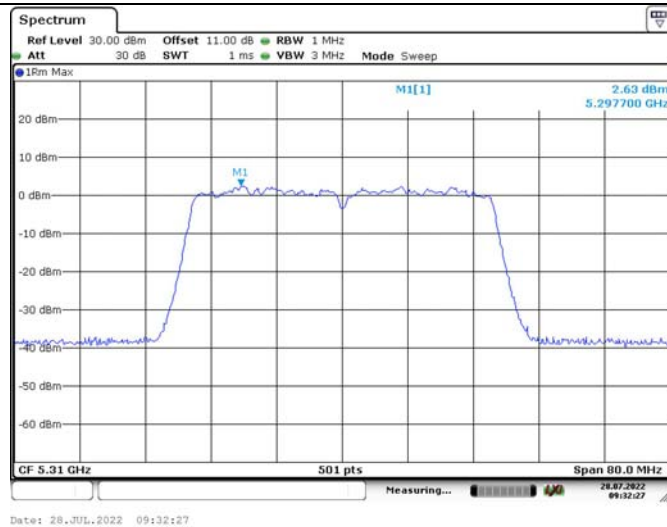
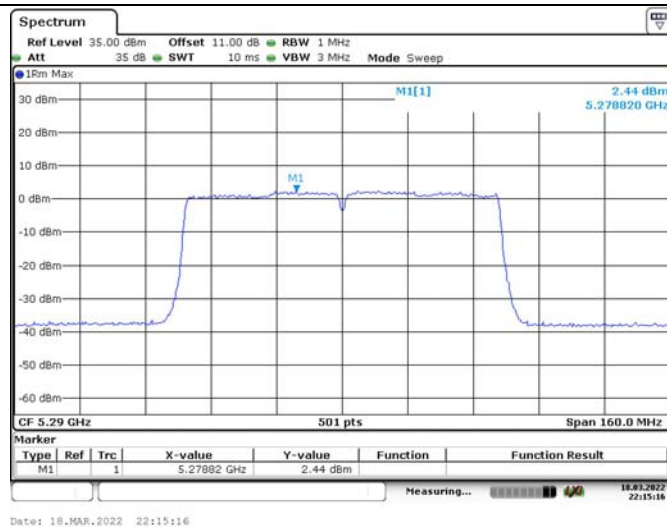
802.11n ht40
Highest Channel



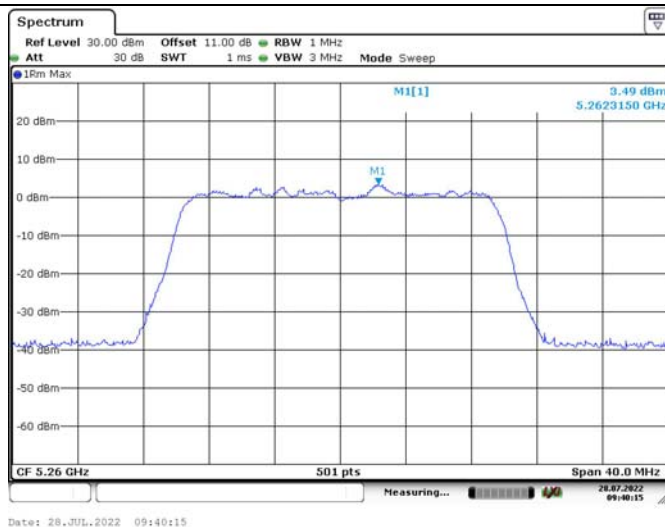
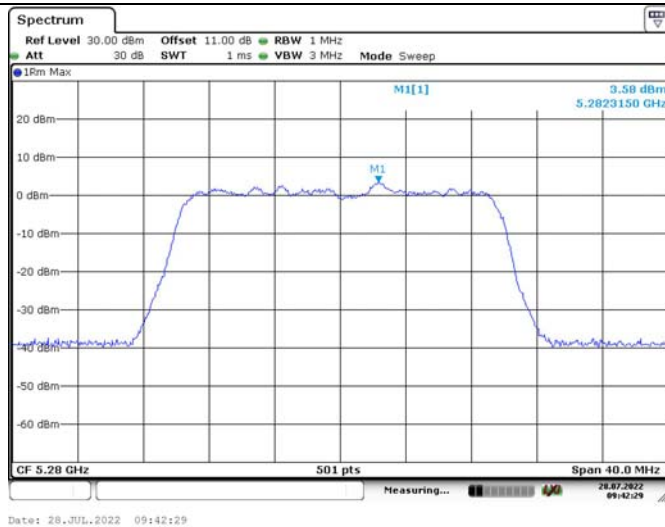
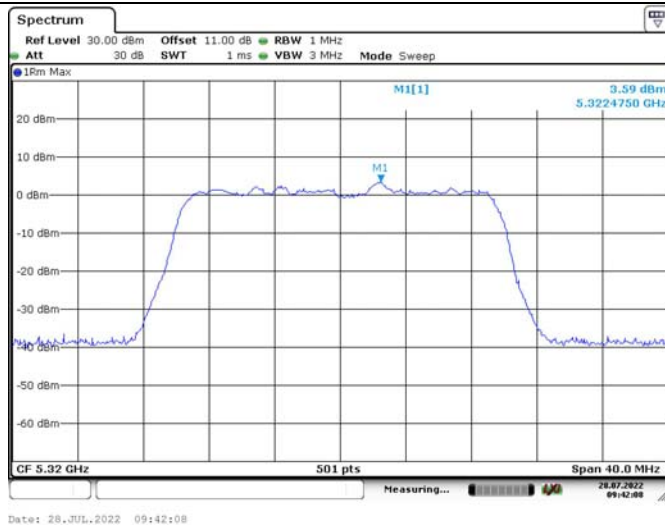
Maximum power spectral density

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

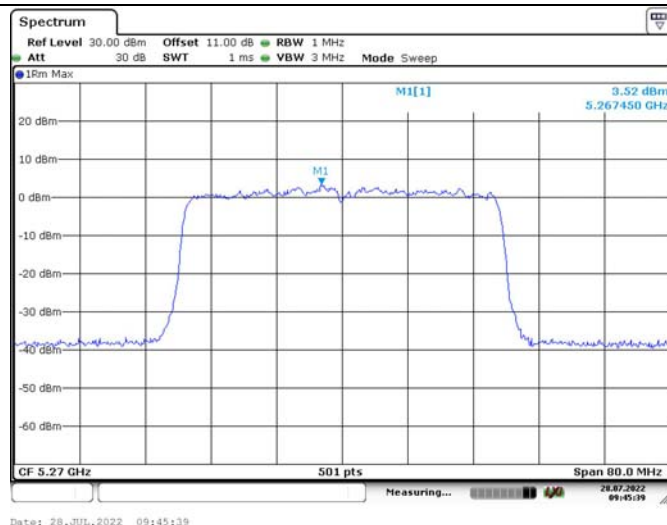
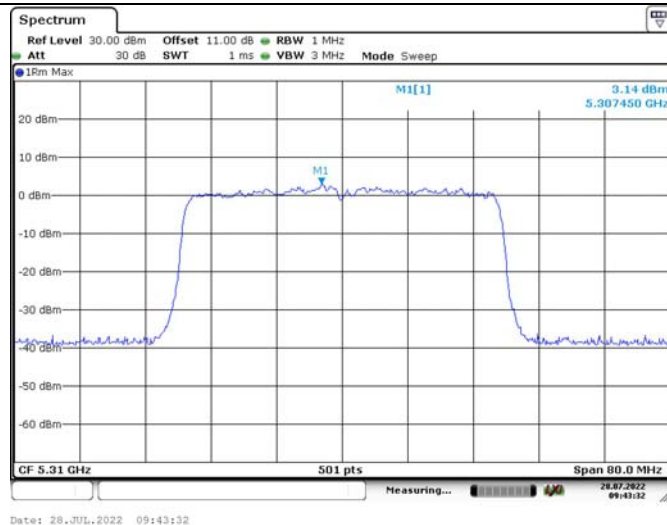
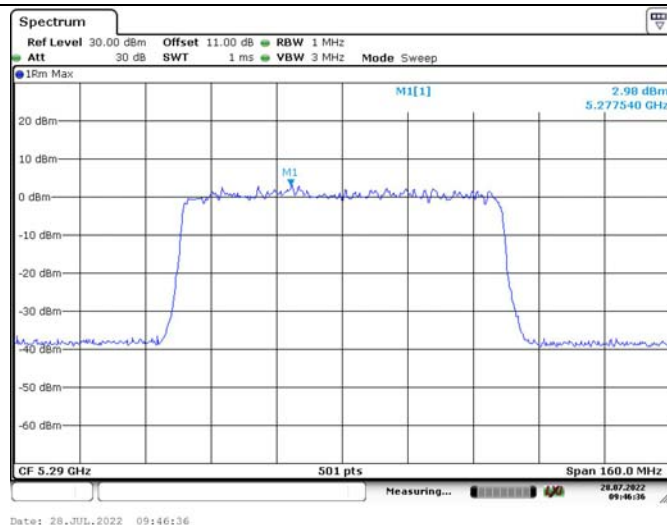
Maximum power spectral density

802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

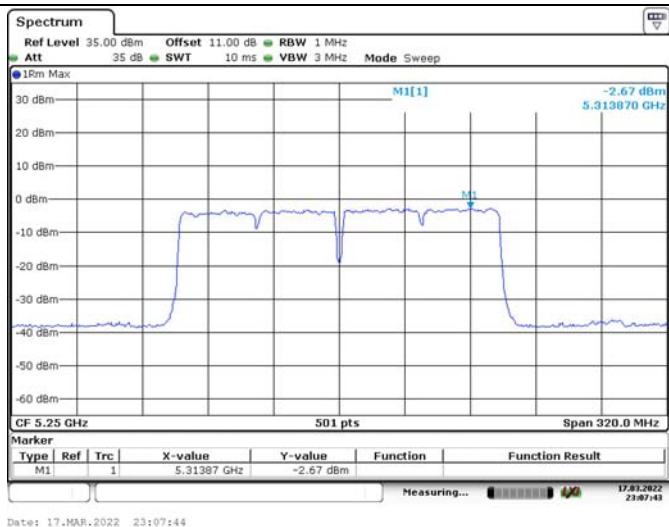
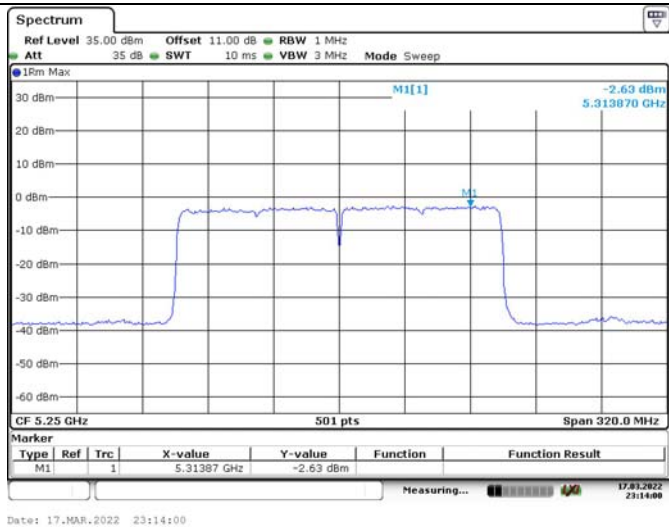
Maximum power spectral density

802.11ax hew20
Lowest Channel802.11ax hew20
Middle Channel802.11ax hew20
Highest Channel

Maximum power spectral density

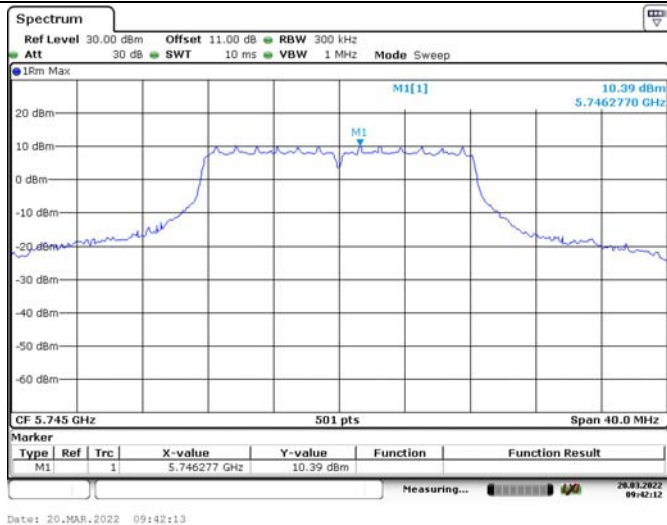
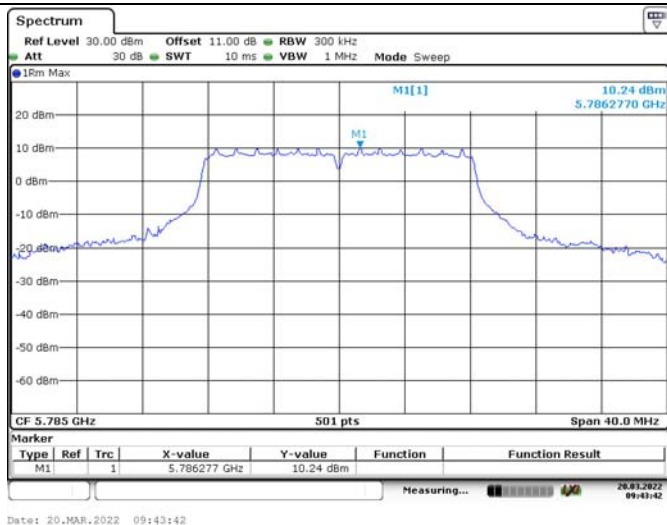
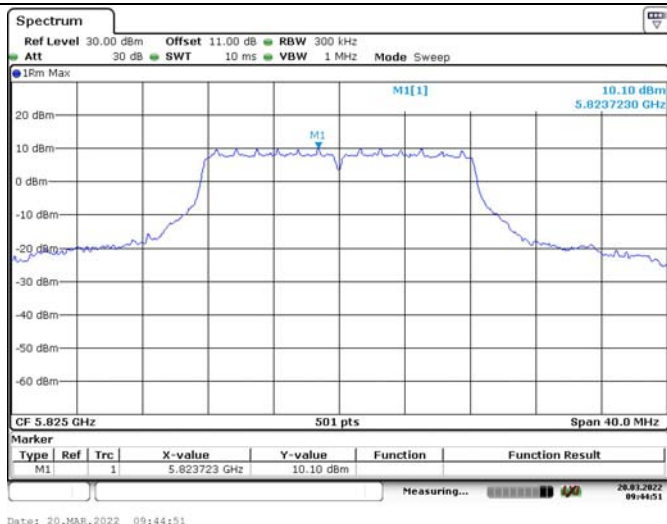
802.11ax hew40
Lowest Channel802.11ax hew40
Highest Channel802.11ax hew80
Middle Channel

Maximum power spectral density

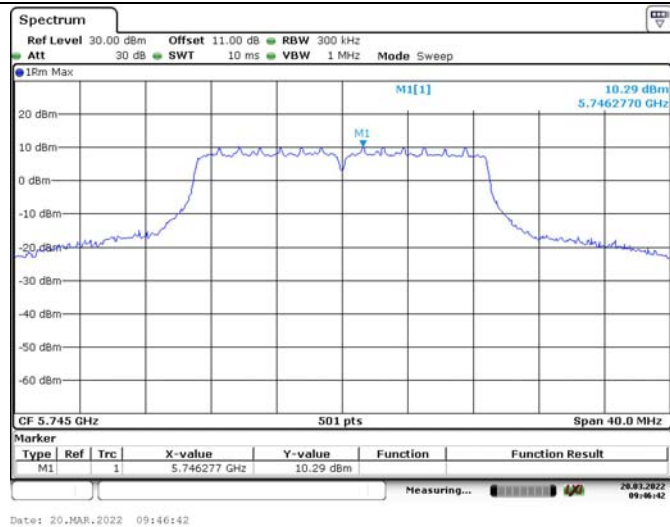
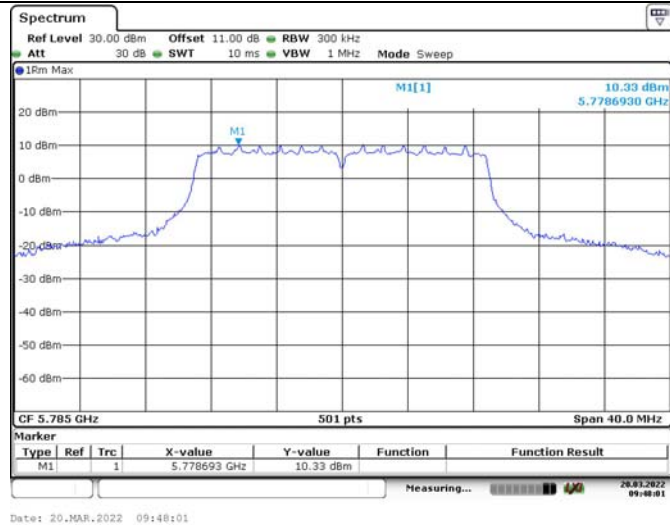
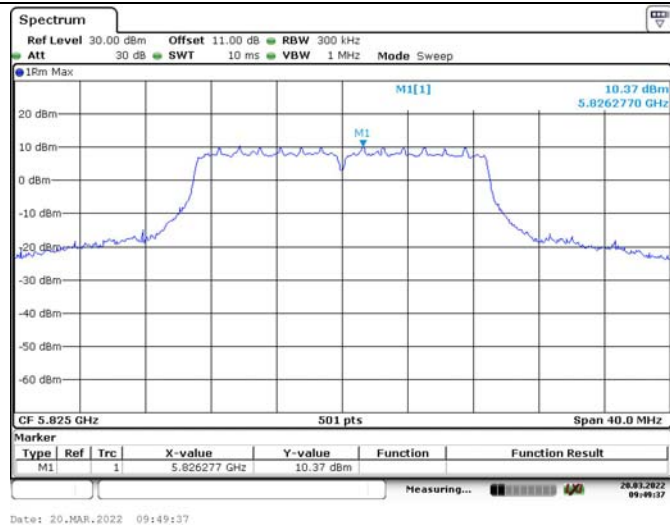
802.11ac vht160
Middle Channel802.11ax hew160
Middle Channel

5725-5850MHz

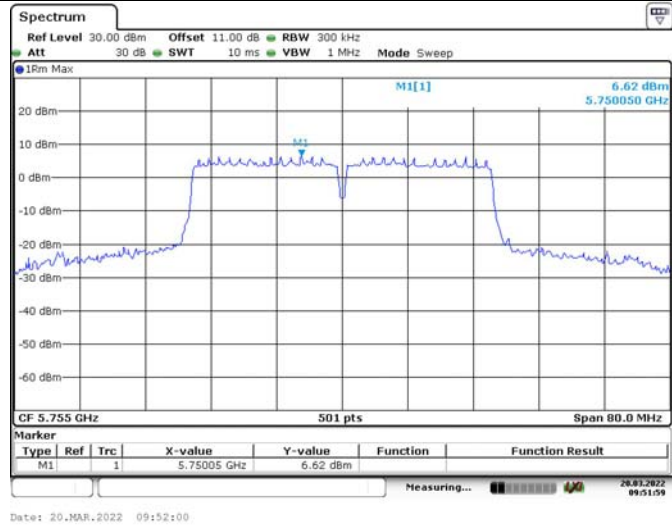
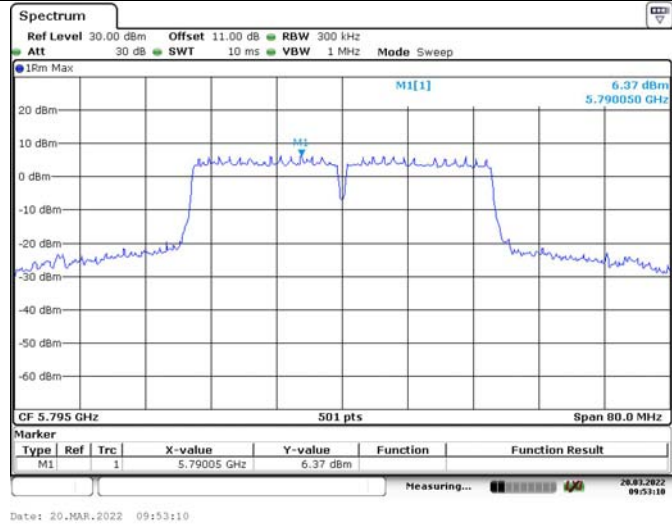
Maximum power spectral density

802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

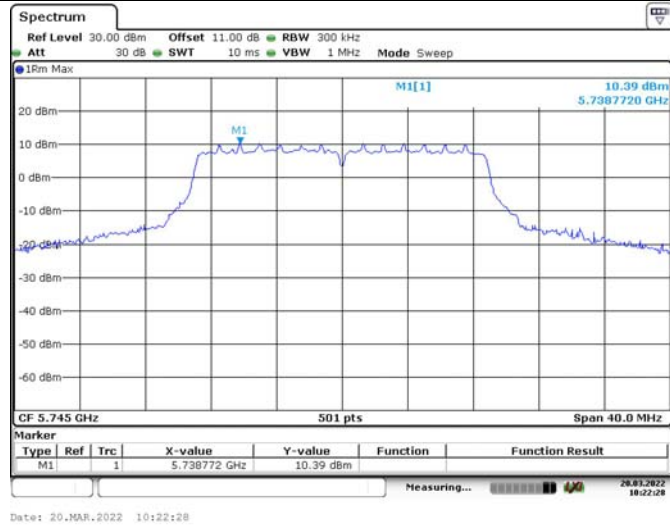
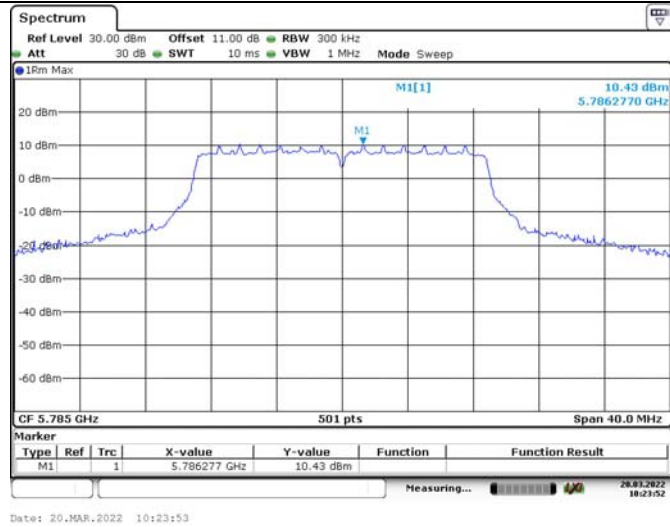
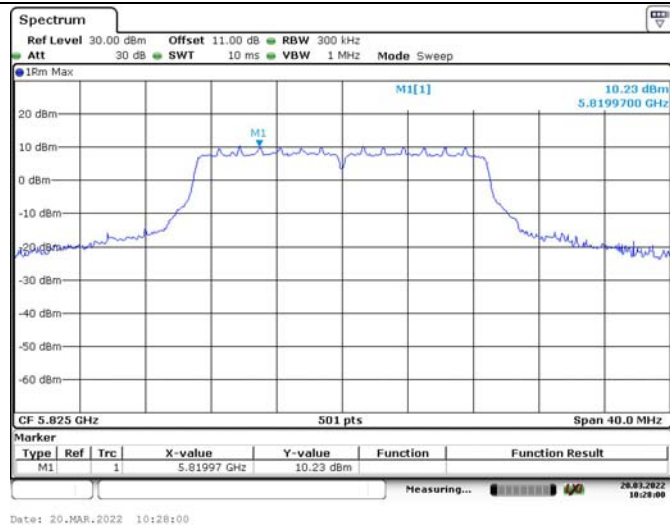
Maximum power spectral density

802.11n ht20
Lowest Channel802.11n ht20
Middle Channel802.11n ht20
Highest Channel

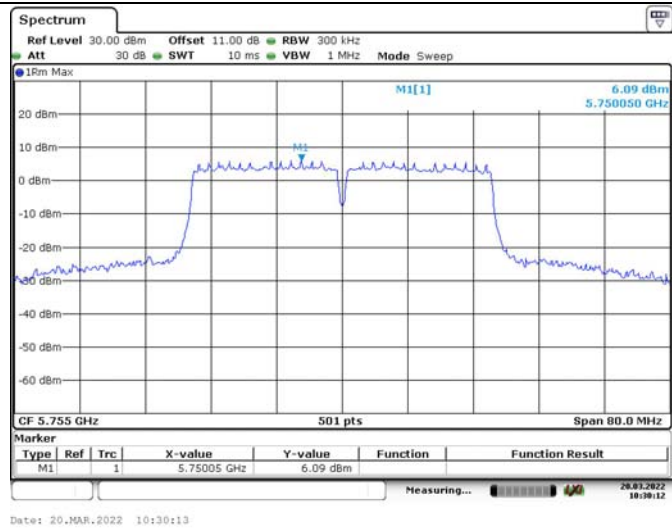
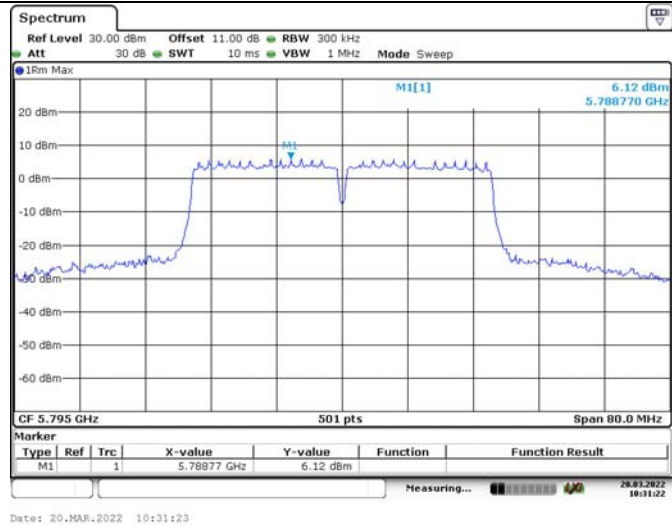
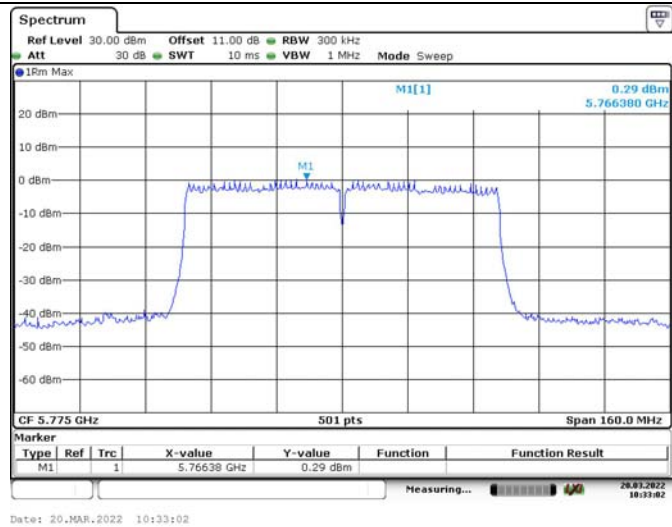
Maximum power spectral density

802.11n ht40
Lowest Channel802.11n ht40
Highest Channel

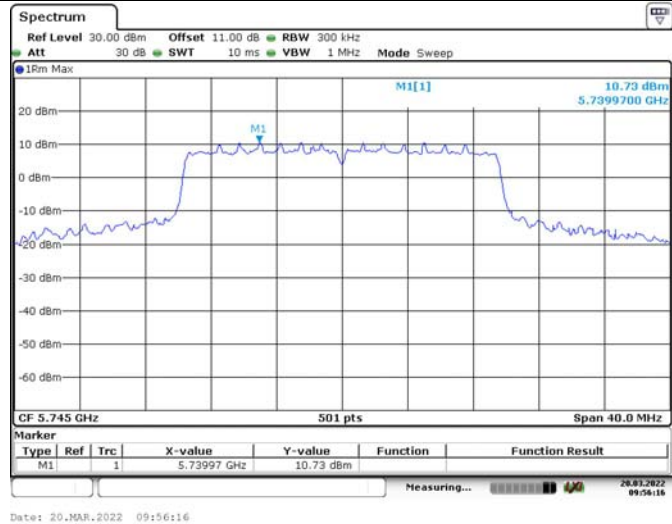
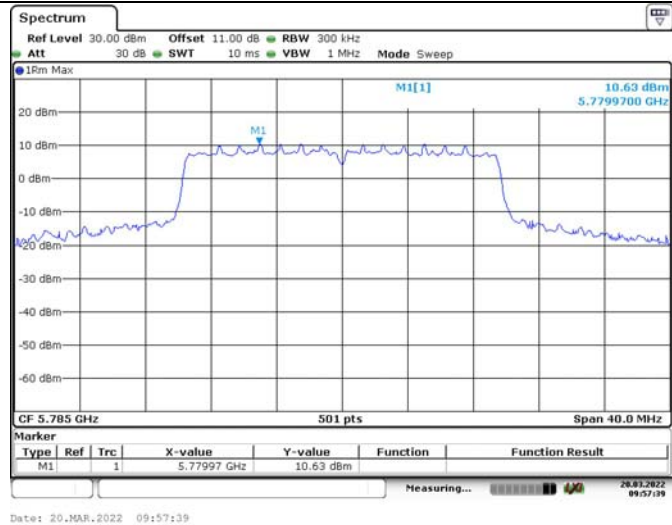
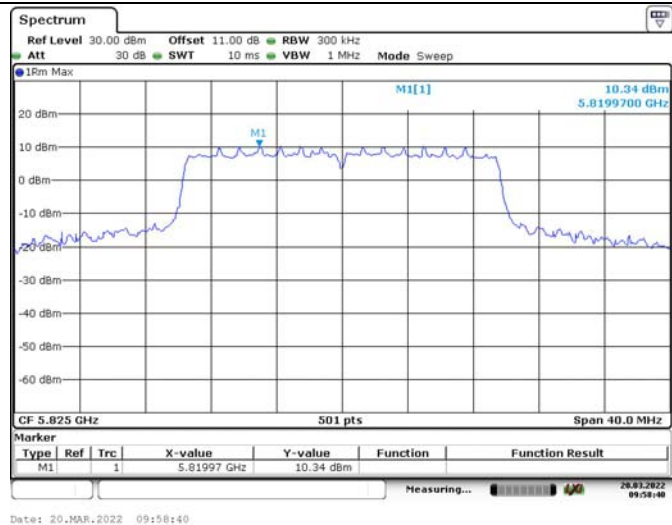
Maximum power spectral density

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

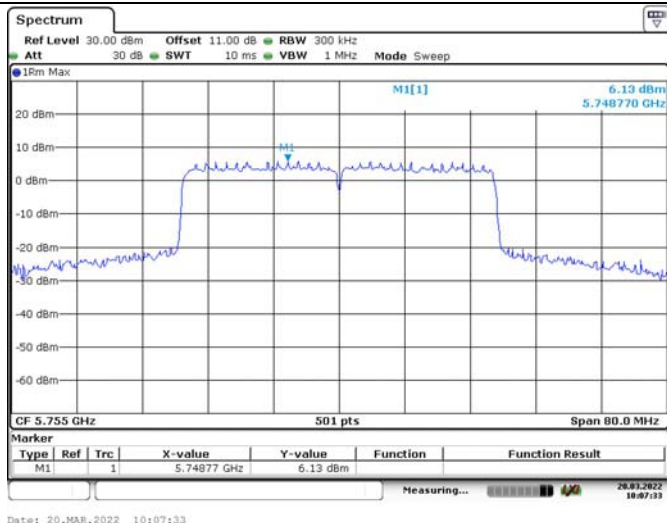
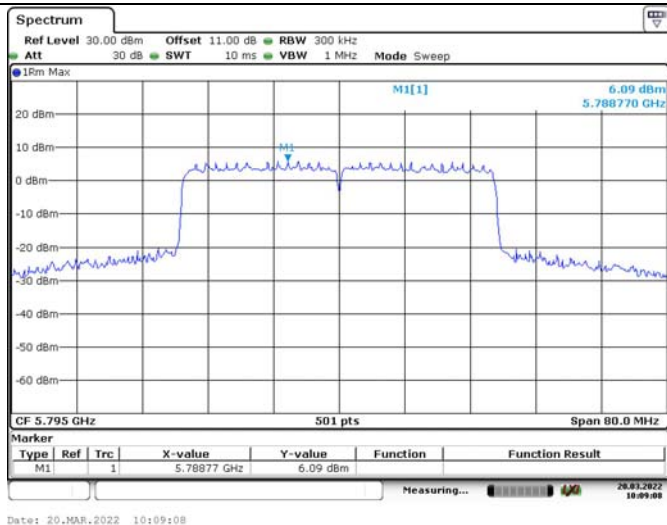
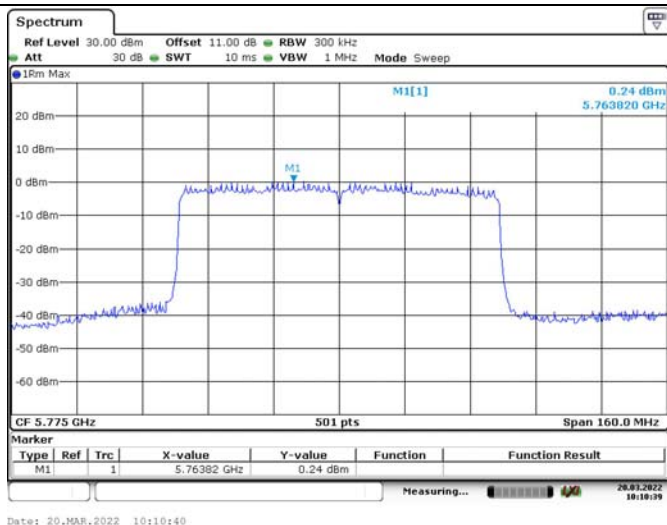
Maximum power spectral density

802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

Maximum power spectral density

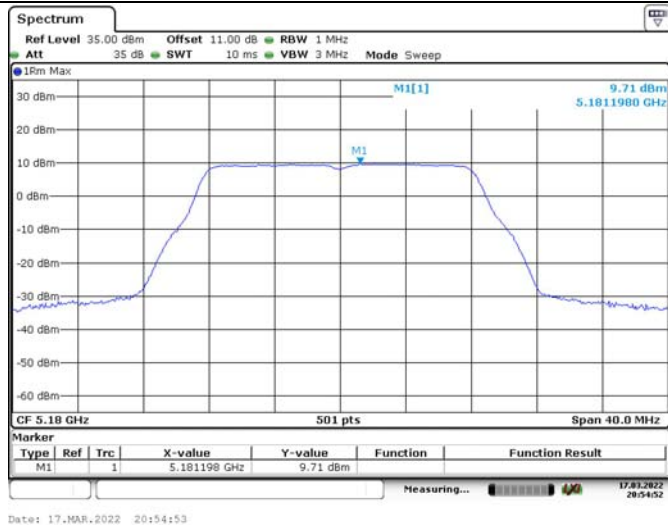
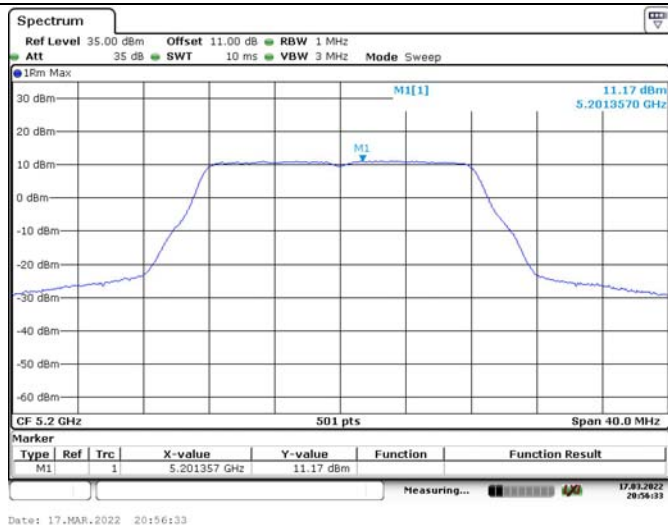
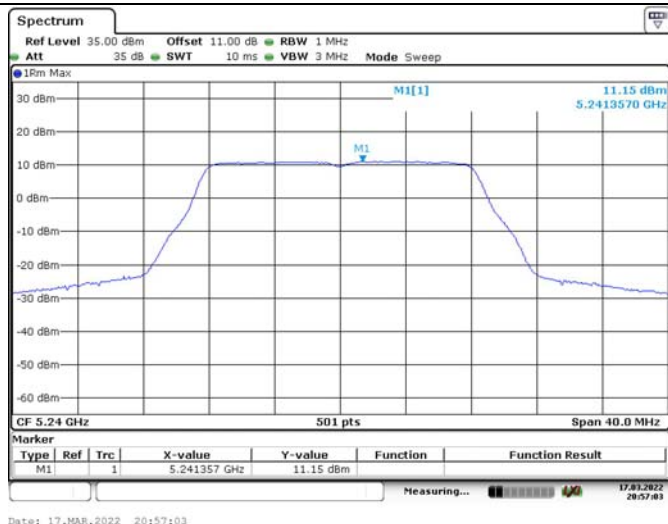
802.11ax hew20
Lowest Channel802.11ax hew20
Middle Channel802.11ax hew20
Highest Channel

Maximum power spectral density

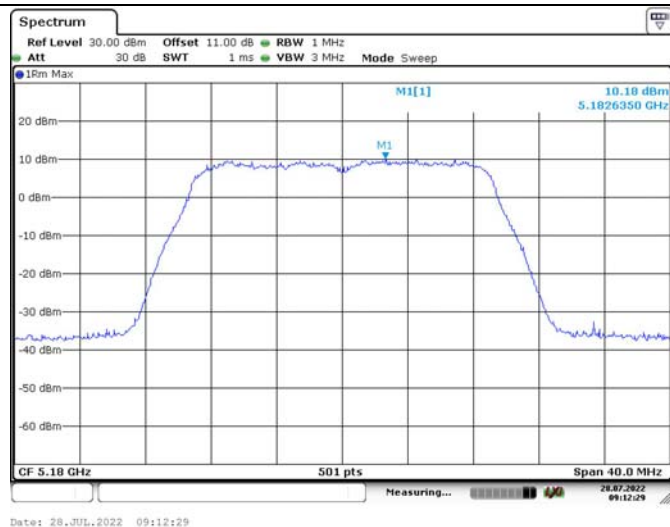
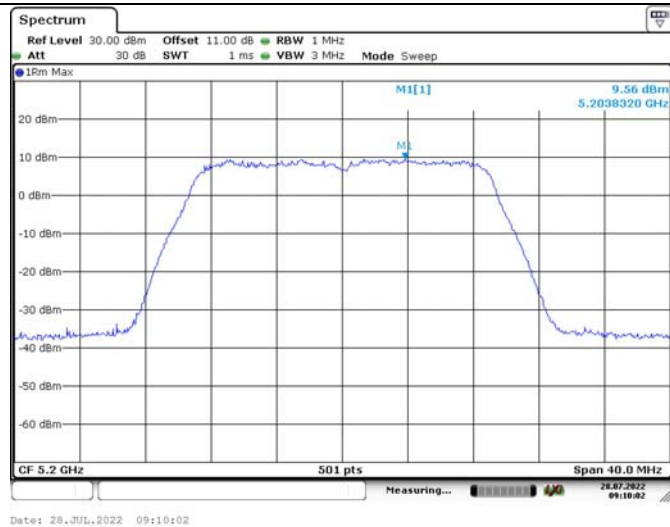
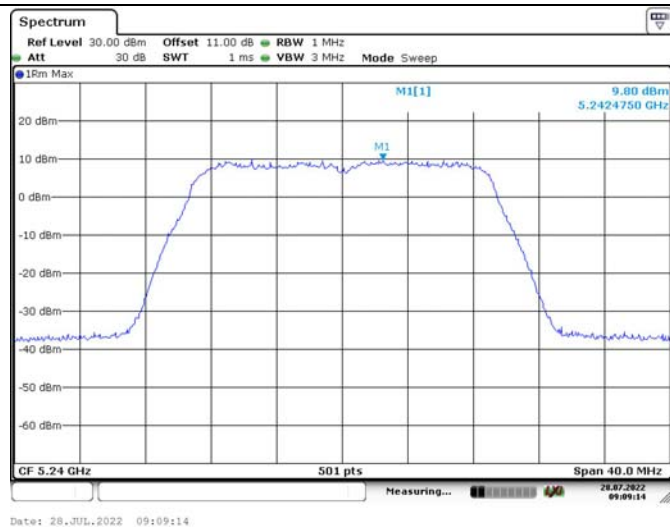
802.11ax hew40
Lowest Channel802.11ax hew40
Highest Channel802.11ax hew80
Middle Channel

Chain 1, 5150-5250MHz:

Maximum power spectral density

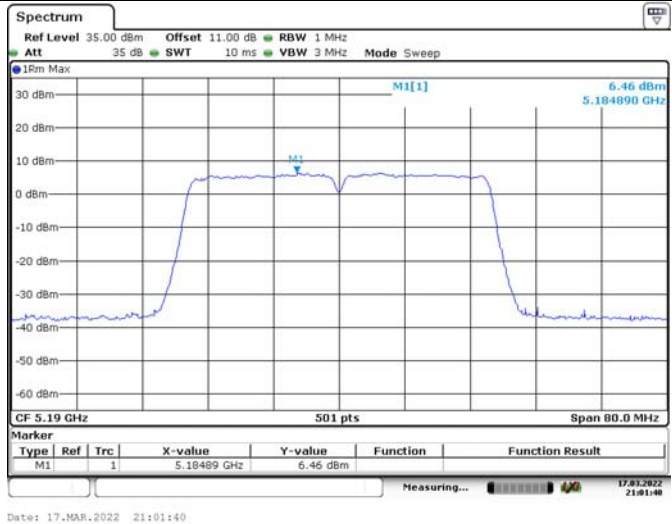
802.11a
Lowest Channel802.11a
Middle Channel802.11a
Highest Channel

Maximum power spectral density

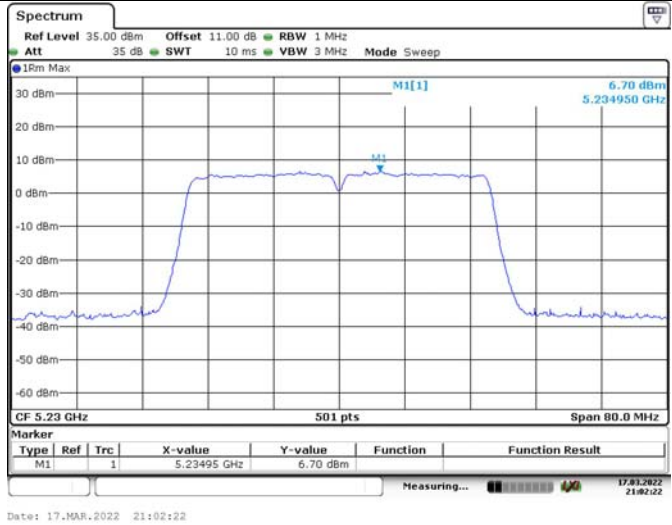
802.11n ht20
Lowest Channel802.11n ht20
Middle Channel802.11n ht20
Highest Channel

Maximum power spectral density

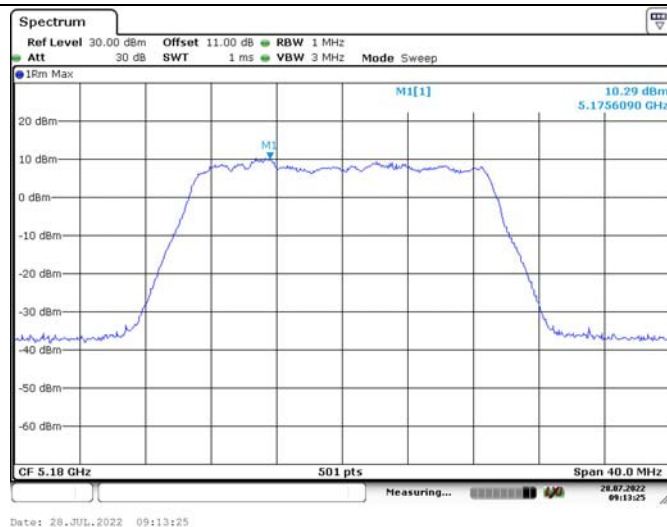
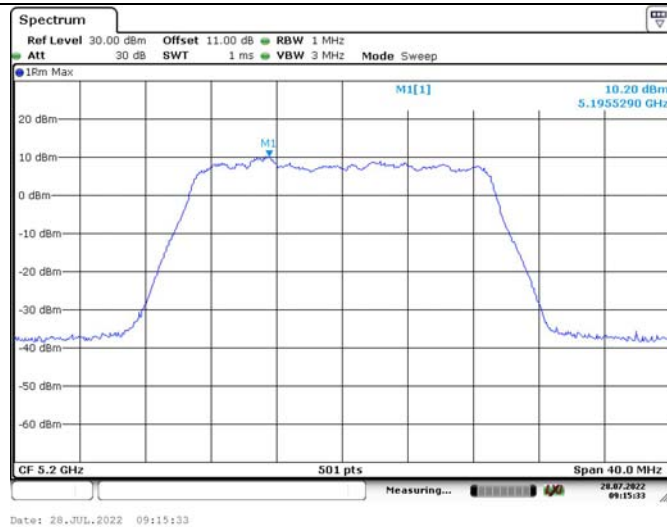
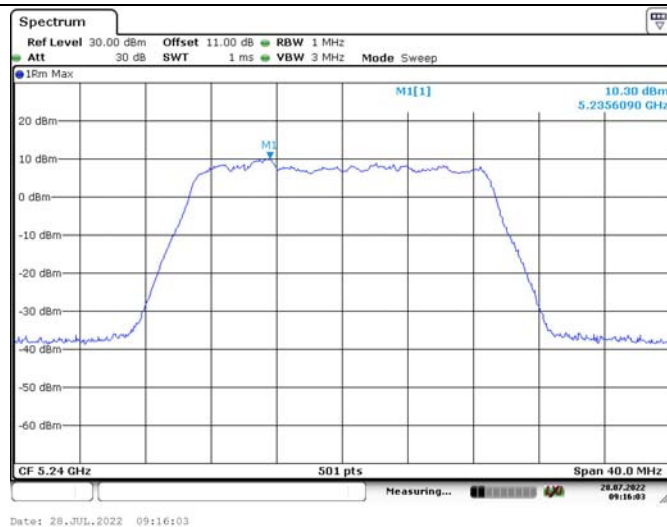
802.11n ht40
Lowest Channel



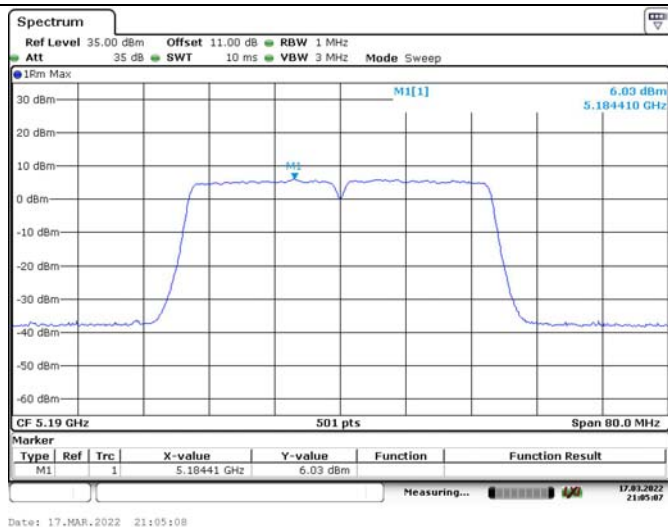
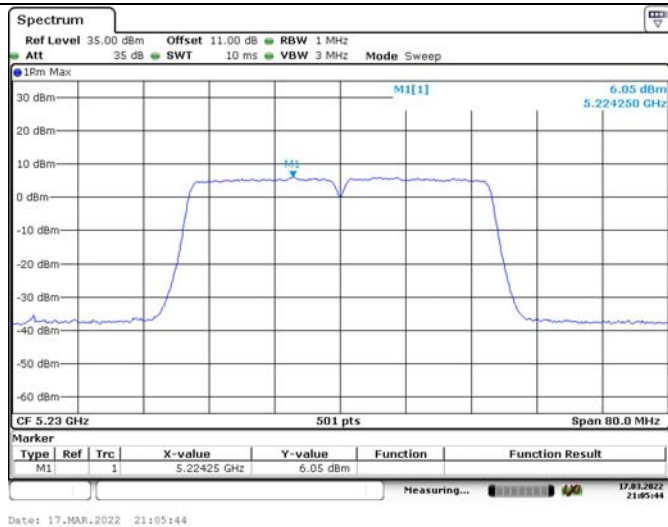
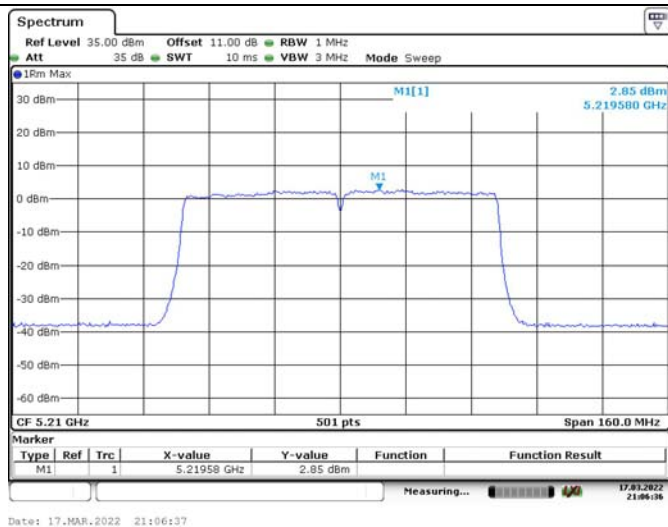
802.11n ht40
Highest Channel



Maximum power spectral density

802.11ac vht20
Lowest Channel802.11ac vht20
Middle Channel802.11ac vht20
Highest Channel

Maximum power spectral density

802.11ac vht40
Lowest Channel802.11ac vht40
Highest Channel802.11ac vht80
Middle Channel

Maximum power spectral density

802.11ax hew20
Lowest Channel802.11ax hew20
Middle Channel802.11ax hew20
Highest Channel