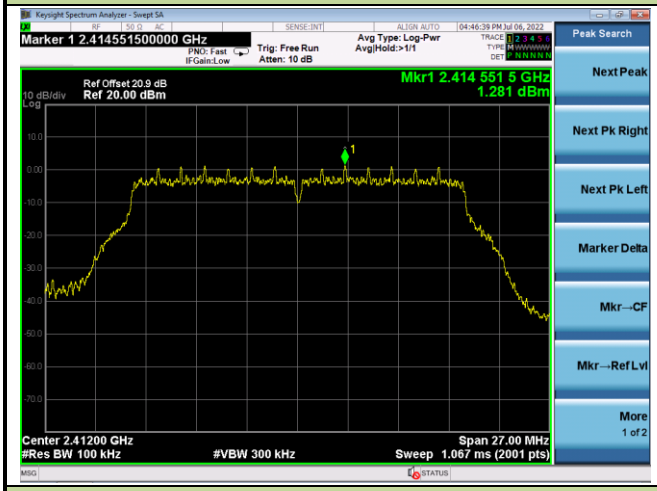
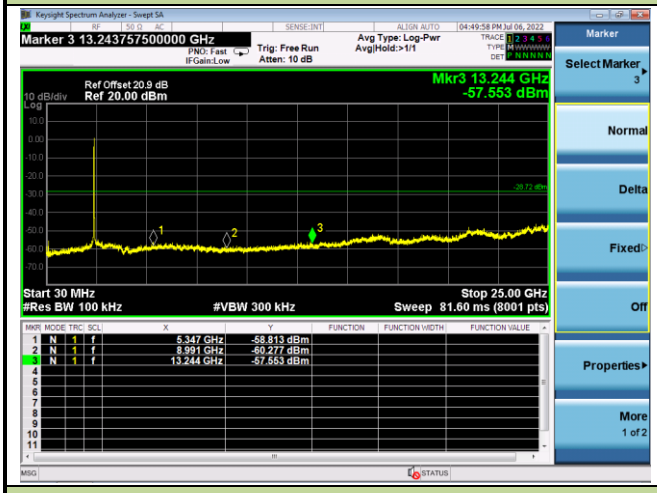
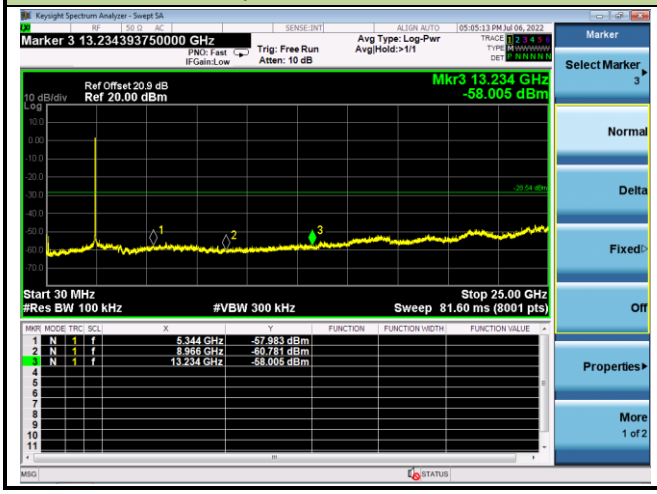
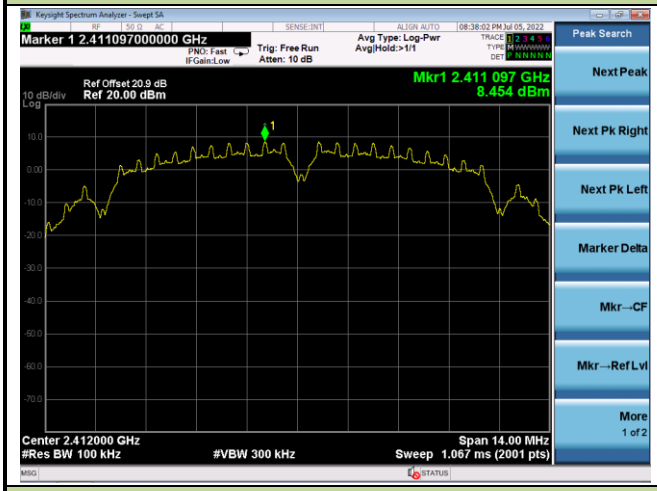
802.11n-HT20 Out-of-Band Emissions – Ant 0	
Channel 01 (2412MHz)	
100kHz PSD Reference Level	Low Band Edge
	
Spurious Emission	
	
Channel 06 (2437MHz)	
100kHz PSD Reference Level	Spurious Emission
	

802.11n-HT20 Out-of-Band Emissions – Ant 0	
Channel 11 (2462MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission	
	

802.11b Out-of-Band Emissions – Ant 1	
Channel 01 (2412MHz)	
100kHz PSD Reference Level	Low Band Edge
	
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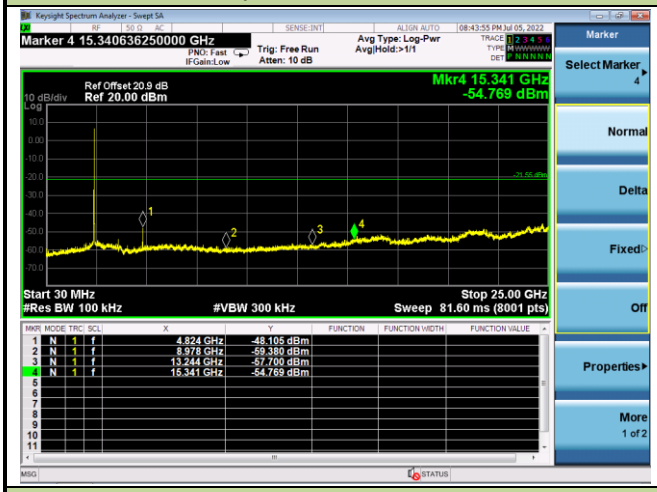
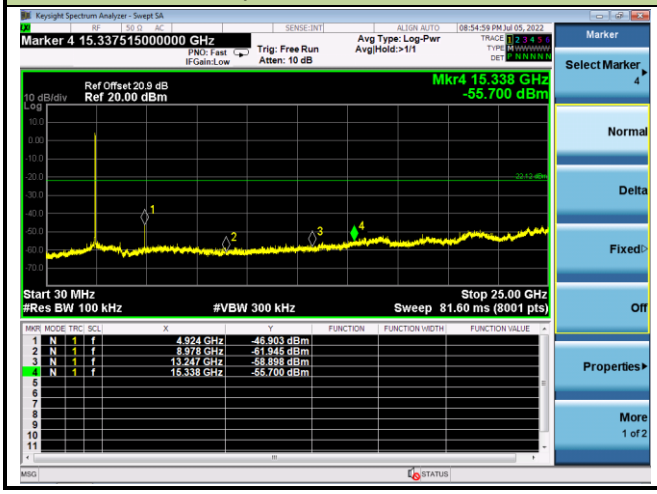
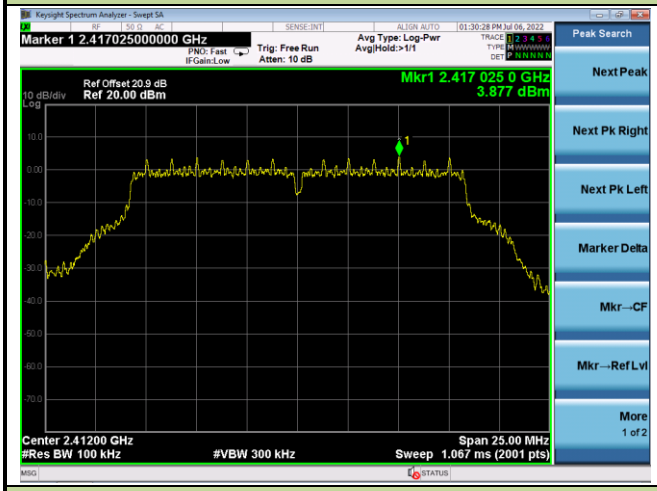
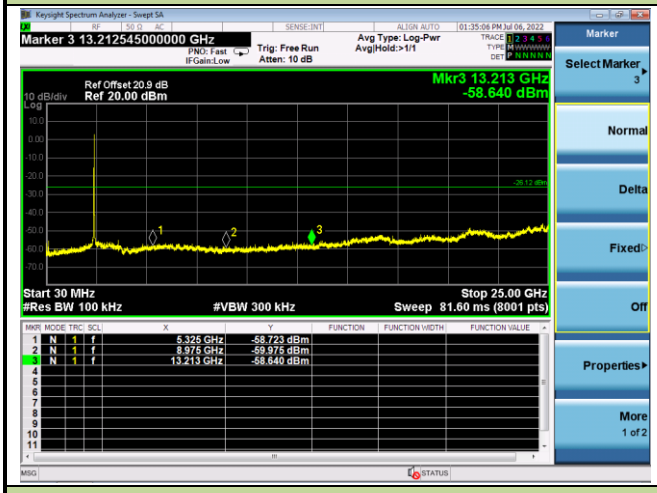
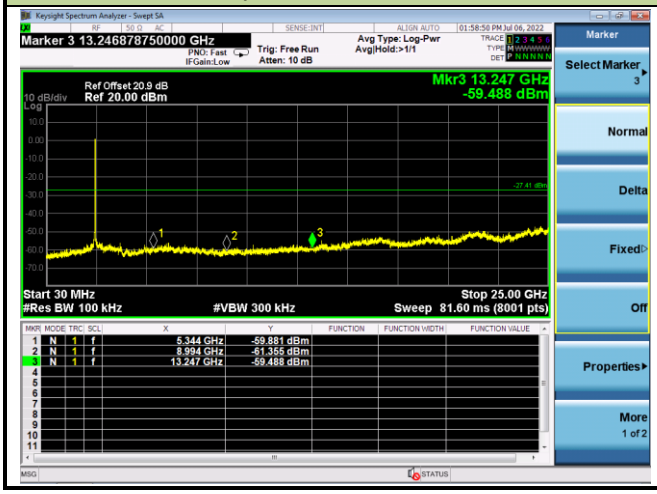
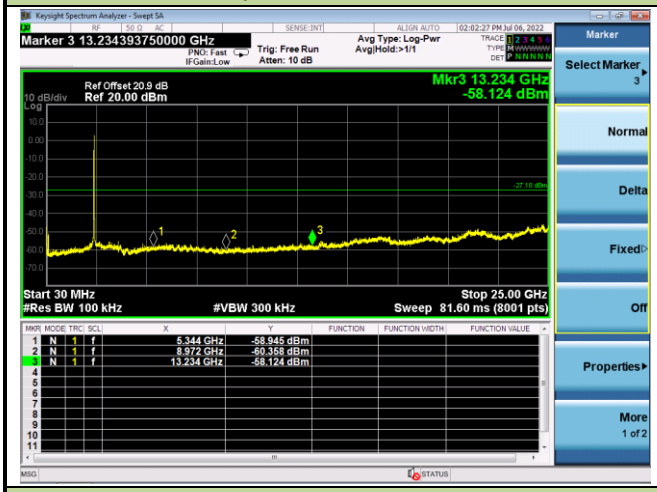
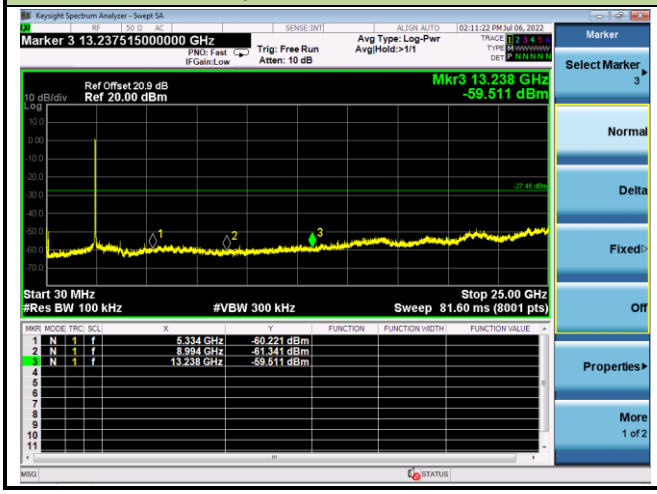
	
Channel 06 (2437MHz)	
100kHz PSD Reference Level	Spurious Emission
	

802.11b Out-of-Band Emissions – Ant 1	
Channel 11 (2462MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission	
	

802.11g Out-of-Band Emissions – Ant 1	
Channel 01 (2412MHz)	
100kHz PSD Reference Level	Low Band Edge
	
Spurious Emission	
	
Channel 06 (2437MHz)	
100kHz PSD Reference Level	Spurious Emission
	

802.11g Out-of-Band Emissions – Ant 1	
Channel 11 (2462MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission	
	

802.11n-HT20 Out-of-Band Emissions – Ant 1	
Channel 01 (2412MHz)	
100kHz PSD Reference Level	Low Band Edge
	
Spurious Emission	
	
Channel 06 (2437MHz)	
100kHz PSD Reference Level	Spurious Emission
	

802.11n-HT20 Out-of-Band Emissions – Ant 1	
Channel 11 (2462MHz)	
100kHz PSD Reference Level	High Band Edge
	
Spurious Emission	
	

A.6 Radiated Spurious Emission Test Result

Test Site	WZ-AC1	Test Engineer	Bob Zhang
Test Date	2022-07-04 ~ 2022-07-05	Test Mode	802.11b
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4060.000	37.4	0.8	38.2	74.0	-35.8	Peak	Horizontal
	4825.000	47.9	3.1	51.0	74.0	-23.0	Peak	Horizontal
	4825.000	45.0	3.1	48.1	54.0	-5.9	Average	Horizontal
	11582.500	34.4	12.2	46.6	74.0	-27.4	Peak	Horizontal
	4043.000	35.7	1.0	36.7	74.0	-37.3	Peak	Vertical
	4825.000	43.8	3.1	46.9	74.0	-27.1	Peak	Vertical
	11633.500	34.1	12.0	46.1	74.0	-27.9	Peak	Vertical
06	4009.000	36.2	0.8	37.0	74.0	-37.0	Peak	Horizontal
	4876.000	47.4	3.2	50.6	74.0	-23.4	Peak	Horizontal
	12050.000	36.0	12.3	48.3	74.0	-25.7	Peak	Horizontal
	4094.000	36.5	0.9	37.4	74.0	-36.6	Peak	Vertical
	4876.000	39.6	3.2	42.8	74.0	-31.2	Peak	Vertical
	11064.000	34.9	12.7	47.6	74.0	-26.4	Peak	Vertical
11	3915.500	36.0	0.6	36.6	74.0	-37.4	Peak	Horizontal
	4927.000	45.9	3.4	49.3	74.0	-24.7	Peak	Horizontal
	11897.000	35.0	12.0	47.0	74.0	-27.0	Peak	Horizontal
	3932.500	37.3	0.7	38.0	74.0	-36.0	Peak	Vertical
	4774.000	35.3	2.8	38.1	74.0	-35.9	Peak	Vertical
	11735.500	34.1	11.7	45.8	74.0	-28.2	Peak	Vertical
Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m) Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)								

Test Site	WZ-AC1	Test Engineer	Bob Zhang
Test Date	2022-07-05	Test Mode	802.11g
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4230.000	35.5	1.4	36.9	74.0	-37.1	Peak	Horizontal
	4833.500	42.1	3.1	45.2	74.0	-28.8	Peak	Horizontal
	11531.500	34.6	12.4	47.0	74.0	-27.0	Peak	Horizontal
	4043.000	35.0	1.0	36.0	74.0	-38.0	Peak	Vertical
	4859.000	34.7	3.1	37.8	74.0	-36.2	Peak	Vertical
	11540.000	36.4	12.5	48.9	74.0	-25.1	Peak	Vertical
06	4009.000	36.8	0.8	37.6	74.0	-36.4	Peak	Horizontal
	4876.000	40.8	3.2	44.0	74.0	-30.0	Peak	Horizontal
	11846.000	33.7	12.0	45.7	74.0	-28.3	Peak	Horizontal
	3864.500	36.4	0.6	37.0	74.0	-37.0	Peak	Vertical
	4876.000	36.1	3.2	39.3	74.0	-34.7	Peak	Vertical
	11531.500	34.8	12.4	47.2	74.0	-26.8	Peak	Vertical
11	3932.500	35.5	0.7	36.2	74.0	-37.8	Peak	Horizontal
	4927.000	40.5	3.4	43.9	74.0	-30.1	Peak	Horizontal
	11846.000	33.9	12.0	45.9	74.0	-28.1	Peak	Horizontal
	3966.500	36.8	0.8	37.6	74.0	-36.4	Peak	Vertical
	4646.500	34.7	2.6	37.3	74.0	-36.7	Peak	Vertical
	11480.500	33.3	12.5	45.8	74.0	-28.2	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Bob Zhang
Test Date	2022-07-05	Test Mode	802.11n-HT20
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
01	4119.500	36.1	1.1	37.2	74.0	-36.8	Peak	Horizontal
	4825.000	41.9	3.1	45.0	74.0	-29.0	Peak	Horizontal
	12058.500	35.8	12.3	48.1	74.0	-25.9	Peak	Horizontal
	4009.000	37.5	0.8	38.3	74.0	-35.7	Peak	Vertical
	4791.000	35.4	3.1	38.5	74.0	-35.5	Peak	Vertical
	11531.500	33.5	12.4	45.9	74.0	-28.1	Peak	Vertical
06	4026.000	35.8	0.9	36.7	74.0	-37.3	Peak	Horizontal
	4876.000	41.3	3.2	44.5	74.0	-29.5	Peak	Horizontal
	11684.500	34.6	11.9	46.5	74.0	-27.5	Peak	Horizontal
	4009.000	36.3	0.8	37.1	74.0	-36.9	Peak	Vertical
	4689.000	35.4	2.5	37.9	74.0	-36.1	Peak	Vertical
	11480.500	33.9	12.5	46.4	74.0	-27.6	Peak	Vertical
11	4077.000	36.9	0.9	37.8	74.0	-36.2	Peak	Horizontal
	4927.000	39.6	3.4	43.0	74.0	-31.0	Peak	Horizontal
	11531.500	34.2	12.4	46.6	74.0	-27.4	Peak	Horizontal
	4026.000	35.2	0.9	36.1	74.0	-37.9	Peak	Vertical
	4944.000	34.0	3.4	37.4	74.0	-36.6	Peak	Vertical
	11225.500	33.2	12.2	45.4	74.0	-28.6	Peak	Vertical

Note: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Test Site	WZ-AC1	Test Engineer	Bob Zhang
Test Date	2022-07-15	Test Mode	Co-location
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
LTE B5 836.5MHz + 802.11b 2437MHz	4034.5	48.2	1.0	49.2	74.0	-24.8	Peak	Horizontal
	4876.0	48.2	3.2	51.4	74.0	-22.6	Peak	Horizontal
	11497.5	36.4	12.8	49.2	74.0	-24.8	Peak	Horizontal
	4034.5	41.8	1.0	42.8	74.0	-31.2	Peak	Vertical
	4876.0	38.3	3.2	41.5	74.0	-32.5	Peak	Vertical
	12092.5	36.8	12.0	48.8	74.0	-25.2	Peak	Vertical
LTE B71 680.5MHz + 802.11b 2437MHz	4196.0	41.3	1.3	42.6	74.0	-31.4	Peak	Horizontal
	4876.0	48.2	3.2	51.4	74.0	-22.6	Peak	Horizontal
	11344.5	36.3	12.5	48.8	74.0	-25.2	Peak	Horizontal
	3873.0	37.5	0.7	38.2	74.0	-35.8	Peak	Vertical
	4876.0	38.5	3.2	41.7	74.0	-32.3	Peak	Vertical
	11166.0	36.2	12.5	48.7	74.0	-25.3	Peak	Vertical

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Note 2: The worst-case limit was used when we perform the radiated spurious emission testing for un-license and license frequency bands.

Test Site	WZ-AC1	Test Engineer	Bob Zhang
Test Date	2022-07-15	Test Mode	Co-location
Remark	1. Average measurement was not performed if peak level lower than average limit. 2. Other frequency was 20dB below limit line within 1-18GHz, there is not show in the report.		

Test Channel	Frequency (MHz)	Reading Level (dBμV)	Factor (dB/m)	Measure Level (dBμV/m)	Limit (dBμV/m)	Margin (dB)	Detector	Polarization
LTE B2 1880MHz + 802.11a 5580MHz	6040.5	51.7	5.2	56.9	68.2	-11.3	Peak	Horizontal
	7579.0	36.4	7.9	44.3	74.0	-29.7	Peak	Horizontal
	10180.0	35.7	12.9	48.6	68.2	-19.6	Peak	Horizontal
	11871.5	37.5	12.0	49.5	74.0	-24.5	Peak	Horizontal
	8267.5	36.4	8.6	45.0	74.0	-29.0	Peak	Vertical
	8811.5	35.4	10.3	45.7	68.2	-22.5	Peak	Vertical
	10044.0	36.0	12.4	48.4	68.2	-19.8	Peak	Vertical
	11608.0	36.7	12.3	49.0	74.0	-25.0	Peak	Vertical
LTE B41 2593MHz + 802.11a 5580MHz	6040.5	49.0	5.2	54.2	68.2	-14.0	Peak	Horizontal
	7536.5	37.0	8.0	45.0	74.0	-29.0	Peak	Horizontal
	10367.0	37.1	12.7	49.8	68.2	-18.4	Peak	Horizontal
	11480.5	35.3	12.5	47.8	74.0	-26.2	Peak	Horizontal
	6754.5	36.6	7.0	43.6	68.2	-24.6	Peak	Vertical
	7468.5	35.0	8.1	43.1	74.0	-30.9	Peak	Vertical
	10120.5	34.1	12.5	46.6	68.2	-21.6	Peak	Vertical
	11183.0	36.2	12.4	48.6	74.0	-25.4	Peak	Vertical

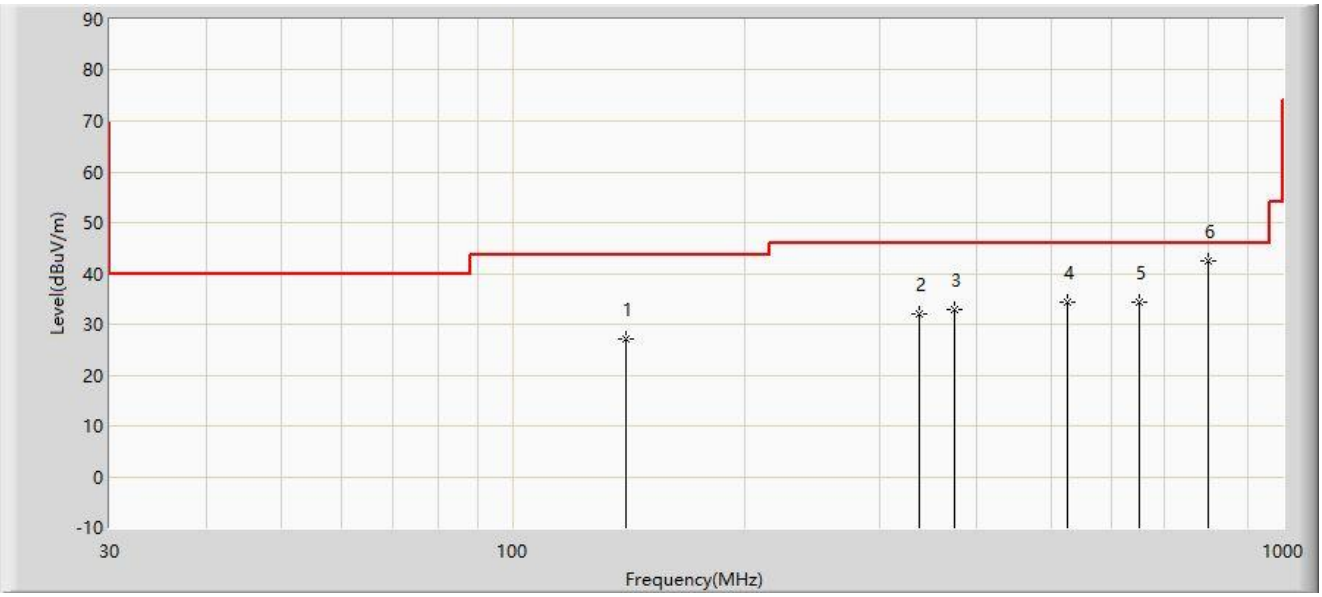
Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m) - Pre_Amplifier Gain (dB)

Note 2: The worst-case limit was used when we perform the radiated spurious emission testing for un-license and license frequency bands.

The Worst-Case Result of Radiated Emission below 1GHz:

Site: WZ-AC2	Test Date: 2022-07-15
Limit: FCC_Part15.209_RSE(3m)	Engineer: Luis Yang
Probe: VULB9162_30-7000MHz	Polarity: Horizontal
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		140.580	27.187	11.936	-16.313	43.500	15.251	PK
2		337.005	32.117	9.780	-13.883	46.000	22.338	PK
3		374.835	33.037	10.261	-12.963	46.000	22.775	PK
4		525.670	34.312	8.854	-11.688	46.000	25.458	PK
5		650.315	34.459	6.840	-11.541	46.000	27.619	PK
6	*	800.180	42.481	12.670	-3.519	46.000	29.811	PK

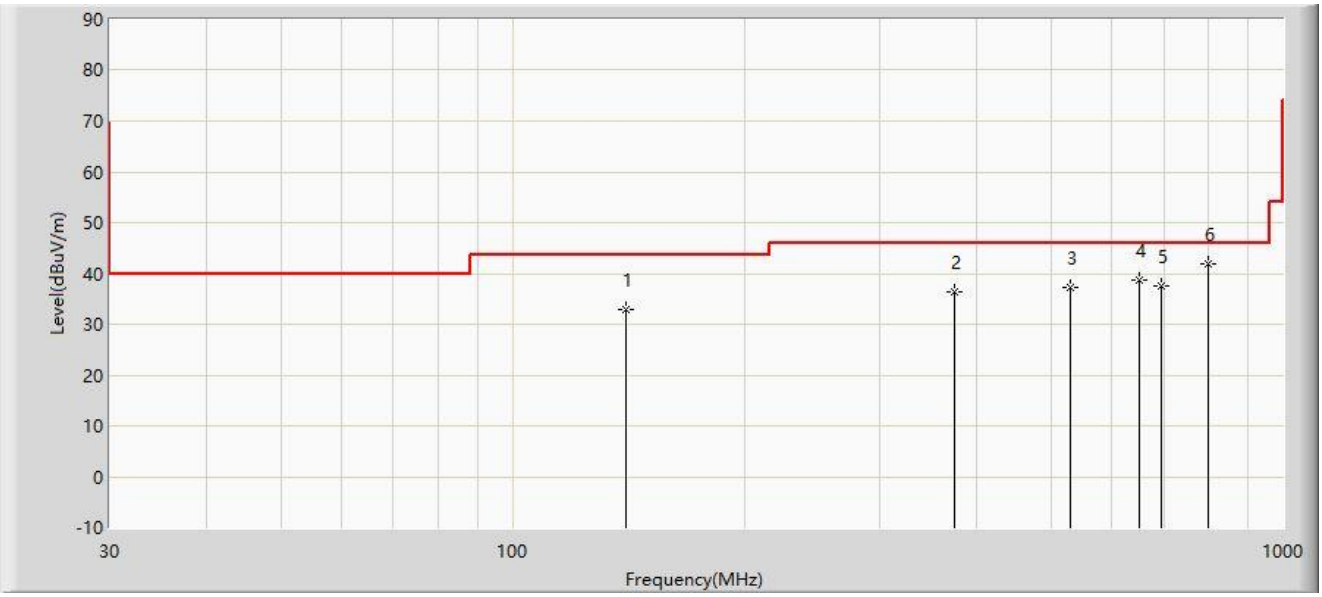
Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

Site: WZ-AC2	Test Date: 2022-07-15
Limit: FCC_Part15.209_RSE(3m)	Engineer: Luis Yang
Probe: VULB9162_30-7000MHz	Polarity: Vertical
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		140.580	32.907	17.656	-10.593	43.500	15.251	PK
2		374.835	36.519	13.744	-9.481	46.000	22.775	PK
3		529.550	37.302	11.734	-8.698	46.000	25.568	PK
4		650.315	38.619	11.000	-7.381	46.000	27.619	PK
5		695.420	37.433	8.876	-8.567	46.000	28.558	PK
6	*	800.180	41.780	11.969	-4.220	46.000	29.811	PK

Note 1: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m)

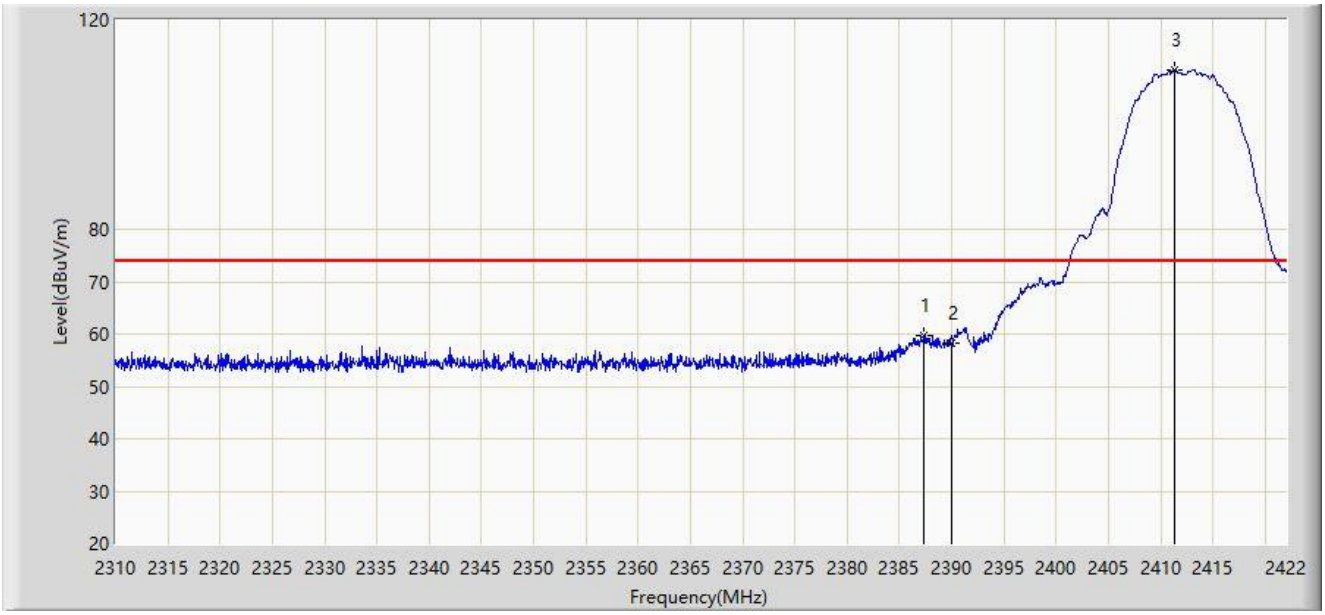
Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m)

Note 2: QP measurement was not performed when peak measure level was lower than the QP limit.

Note 3: The amplitude of radiated emissions (frequency range from 9kHz to 30MHz and 18GHz to 25GHz) is that proximity to ambient noise, which also are attenuated more than 20 dB below the permissible value. Therefore, the data is not presented in the report.

A.7 Radiated Restricted Band Edge Test Result

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2387.392	59.685	29.163	-14.315	74.000	30.522	PK
2		2390.000	58.178	27.652	-15.822	74.000	30.526	PK
3		2411.360	110.554	79.996	N/A	N/A	30.558	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	

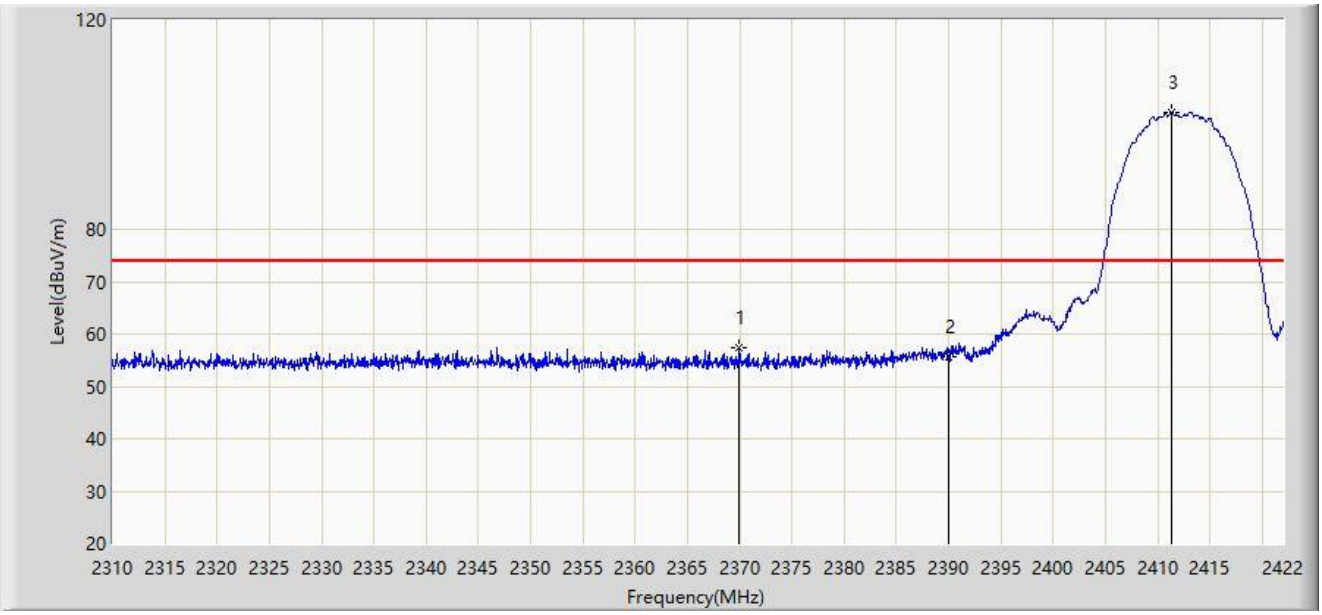
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2387.448	51.355	20.833	-2.645	54.000	30.522	AV
2		2390.000	49.607	19.081	-4.393	54.000	30.526	AV
3		2410.912	108.358	77.800	N/A	N/A	30.558	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



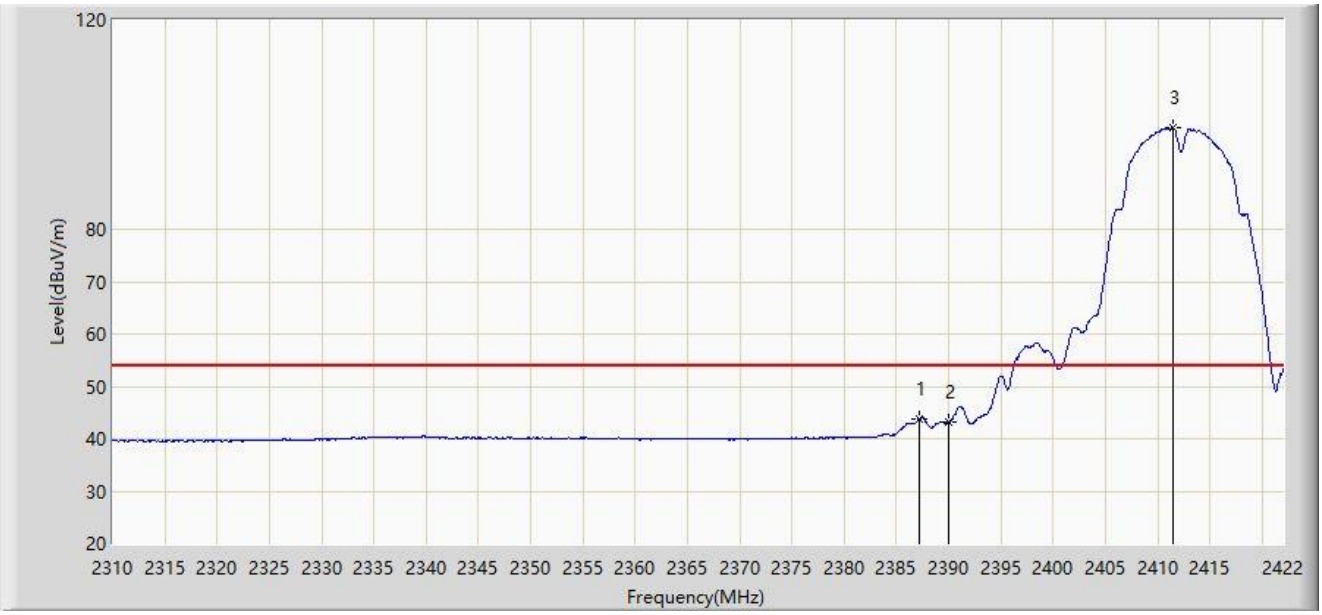
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2369.976	57.261	26.718	-16.739	74.000	30.543	PK
2		2390.000	55.751	25.225	-18.249	74.000	30.526	PK
3		2411.360	102.432	71.874	N/A	N/A	30.558	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



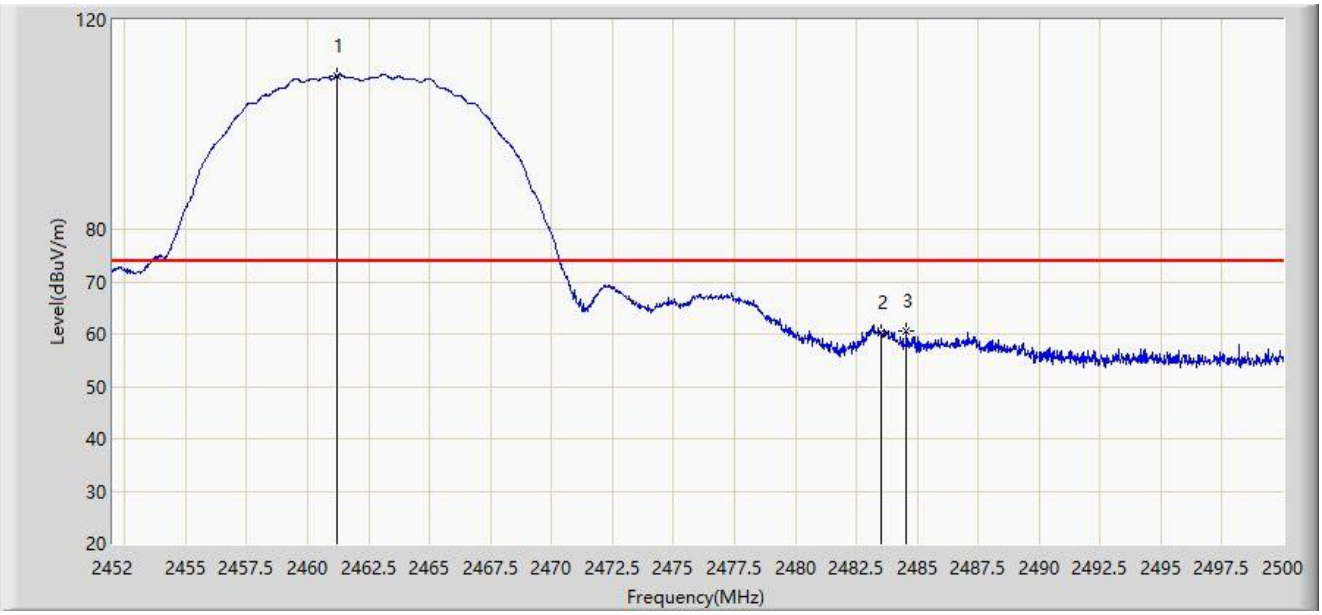
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2387.168	43.826	13.305	-10.174	54.000	30.521	AV
2		2390.000	43.194	12.668	-10.806	54.000	30.526	AV
3		2411.416	99.417	68.859	N/A	N/A	30.558	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2461.216	109.308	78.676	N/A	N/A	30.632	PK
2		2483.500	60.255	29.552	-13.745	74.000	30.704	PK
3	*	2484.568	60.703	29.999	-13.297	74.000	30.704	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2462MHz	

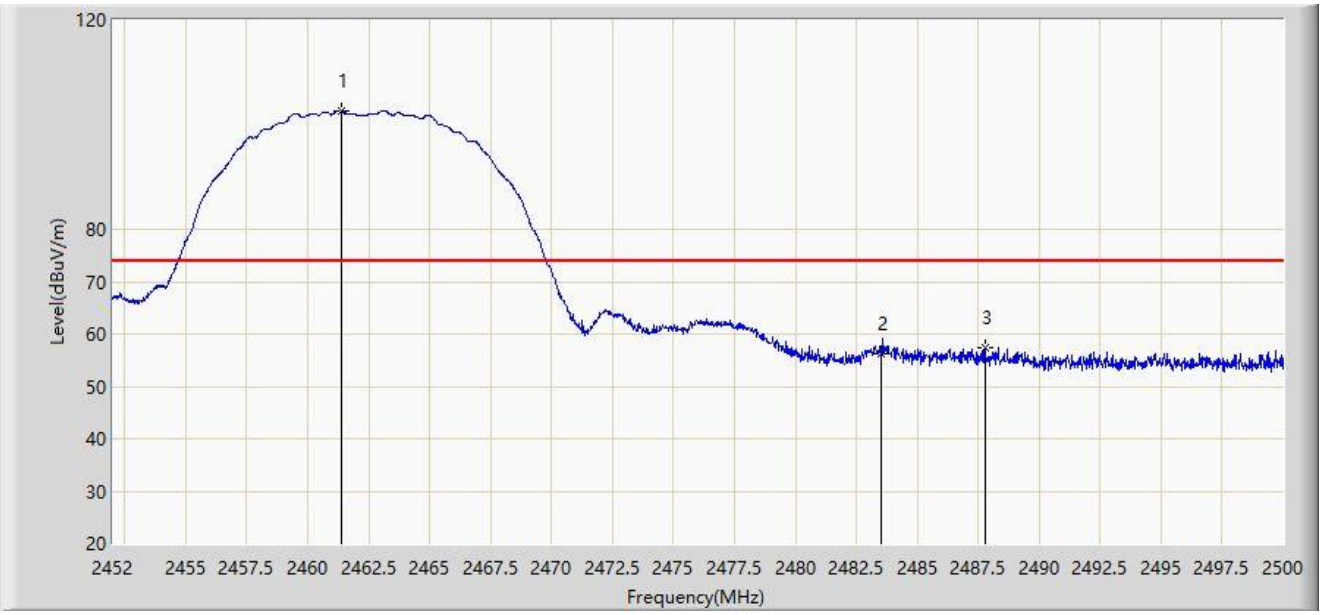
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2461.408	107.119	76.486	N/A	N/A	30.633	AV
2		2483.500	52.817	22.114	-1.183	54.000	30.704	AV
3	*	2483.536	52.820	22.116	-1.180	54.000	30.704	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2461.360	102.736	72.103	N/A	N/A	30.633	PK
2		2483.500	56.323	25.620	-17.677	74.000	30.704	PK
3	*	2487.760	57.449	26.743	-16.551	74.000	30.706	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2462MHz	

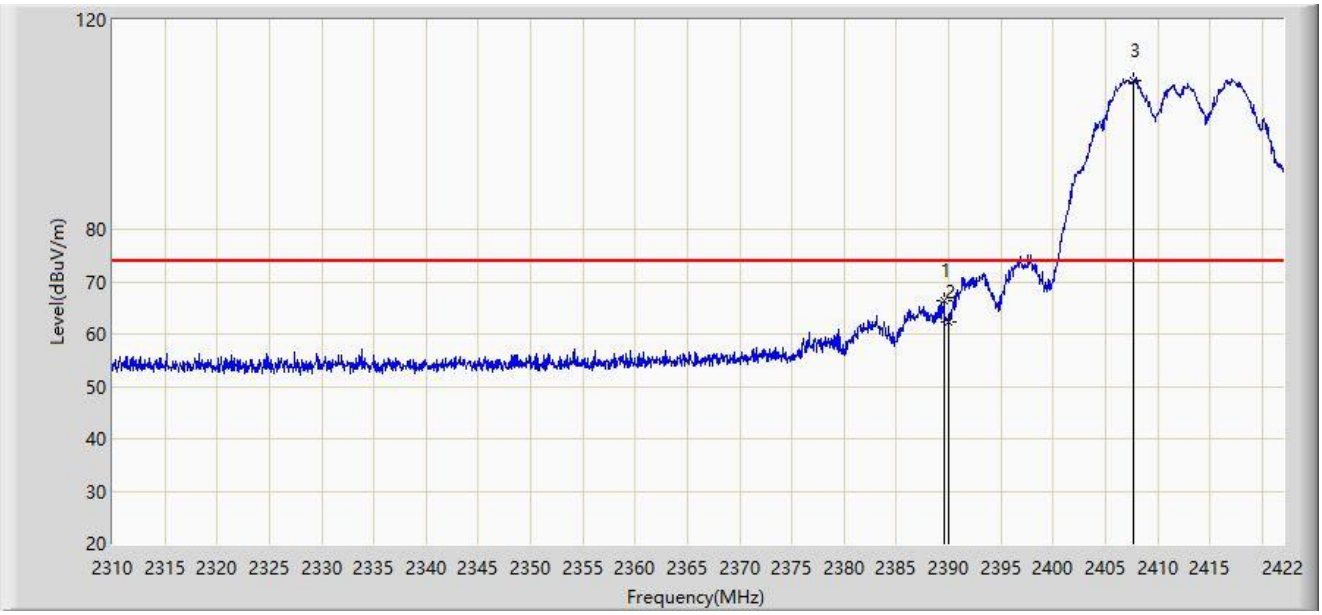
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		2461.528	100.664	70.030	N/A	N/A	30.634	AV
2	*	2483.500	47.662	16.959	-6.338	54.000	30.704	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2412MHz	



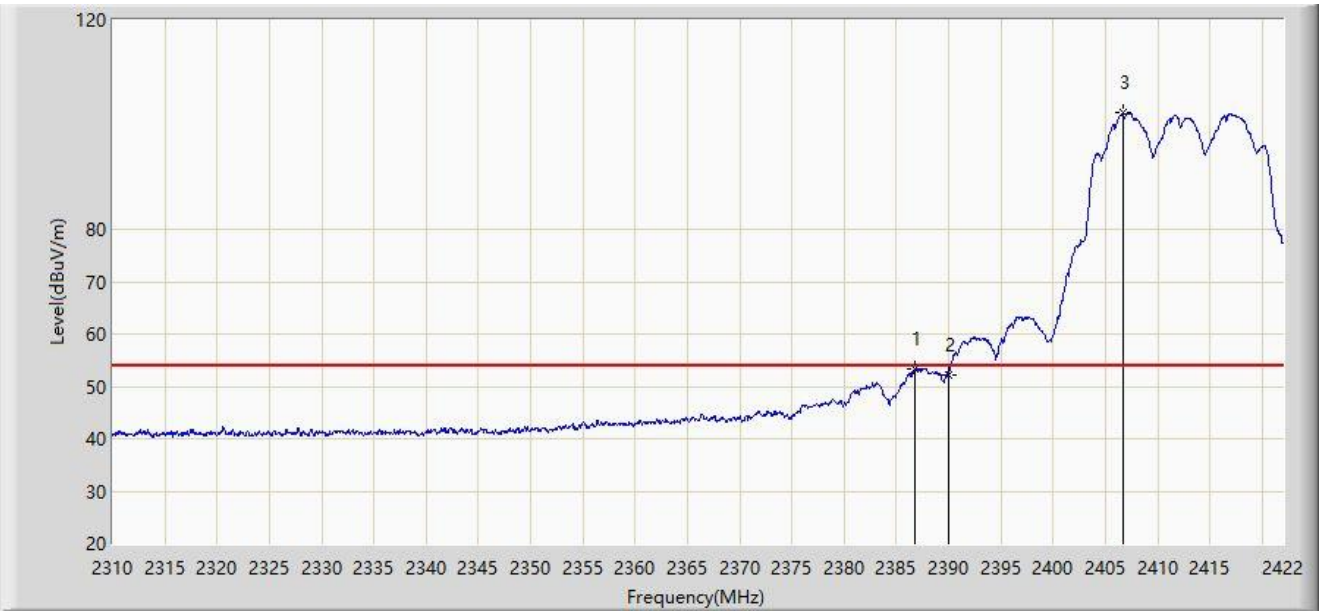
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	2389.520	66.385	35.860	-7.615	74.000	30.525	PK
2		2390.000	62.428	31.902	-11.572	74.000	30.526	PK
3		2407.720	108.530	77.972	N/A	N/A	30.559	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2412MHz	



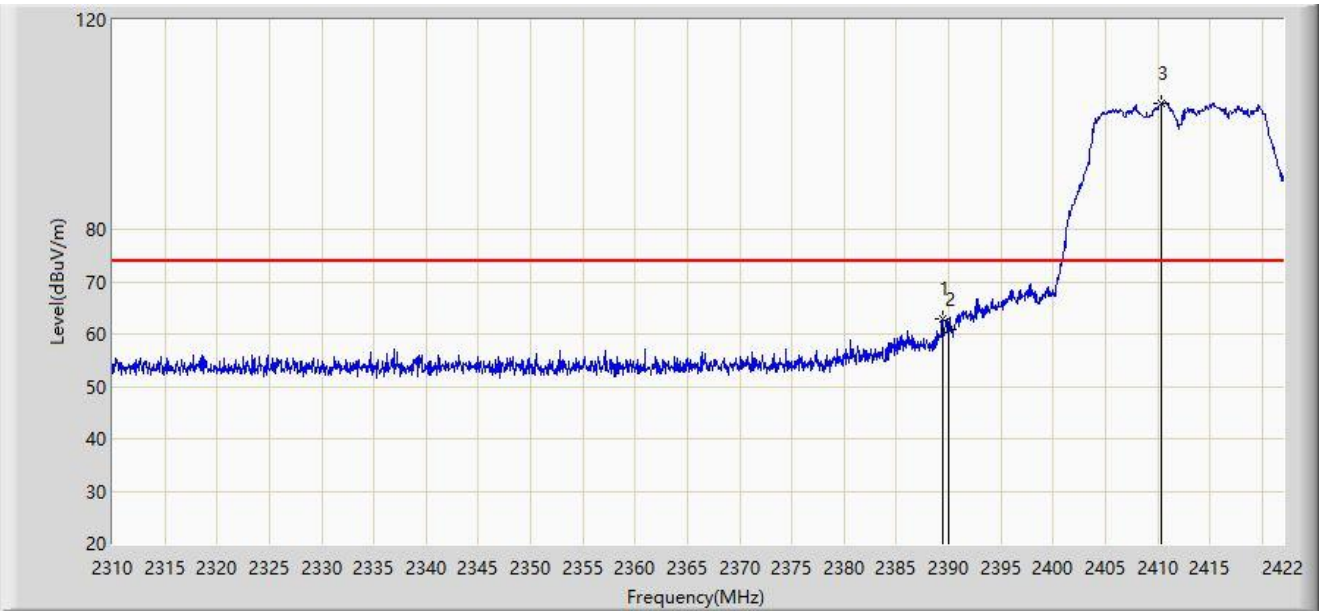
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2386.776	53.438	22.918	-0.562	54.000	30.521	AV
2		2390.000	52.250	21.724	-1.750	54.000	30.526	AV
3		2406.712	102.234	71.675	N/A	N/A	30.558	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2412MHz	



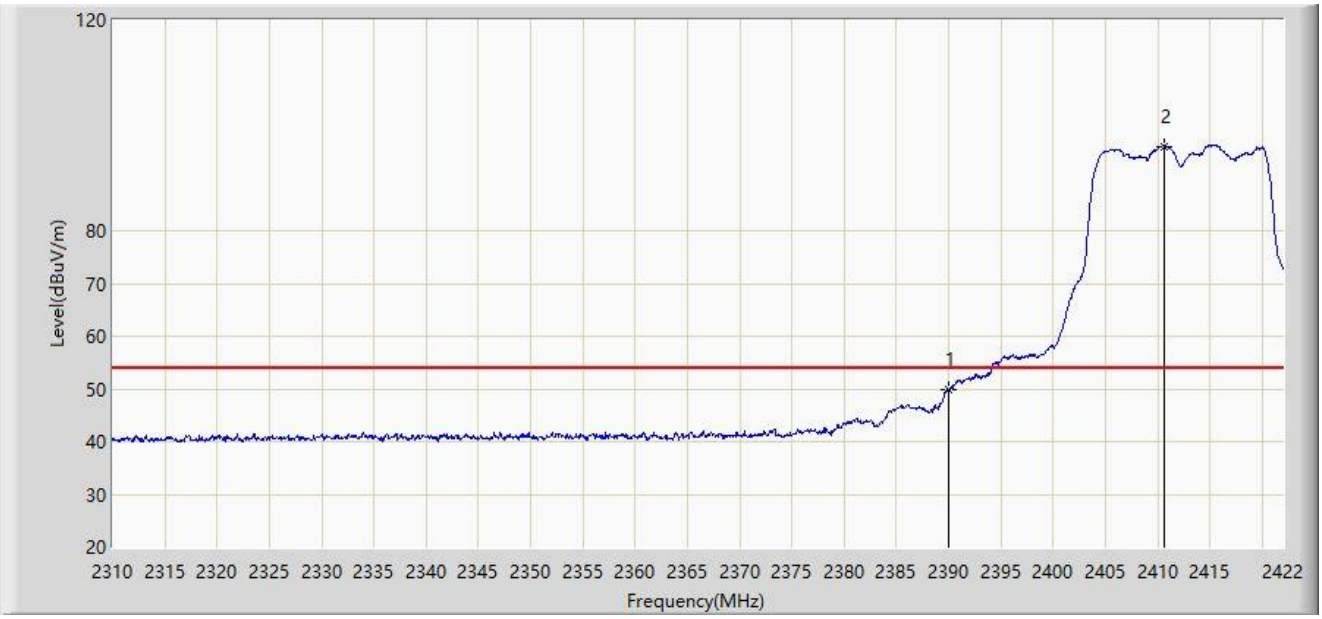
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2389.464	62.999	32.474	-11.001	74.000	30.525	PK
2		2390.000	60.771	30.245	-13.229	74.000	30.526	PK
3		2410.408	104.092	73.534	N/A	N/A	30.558	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2412MHz	



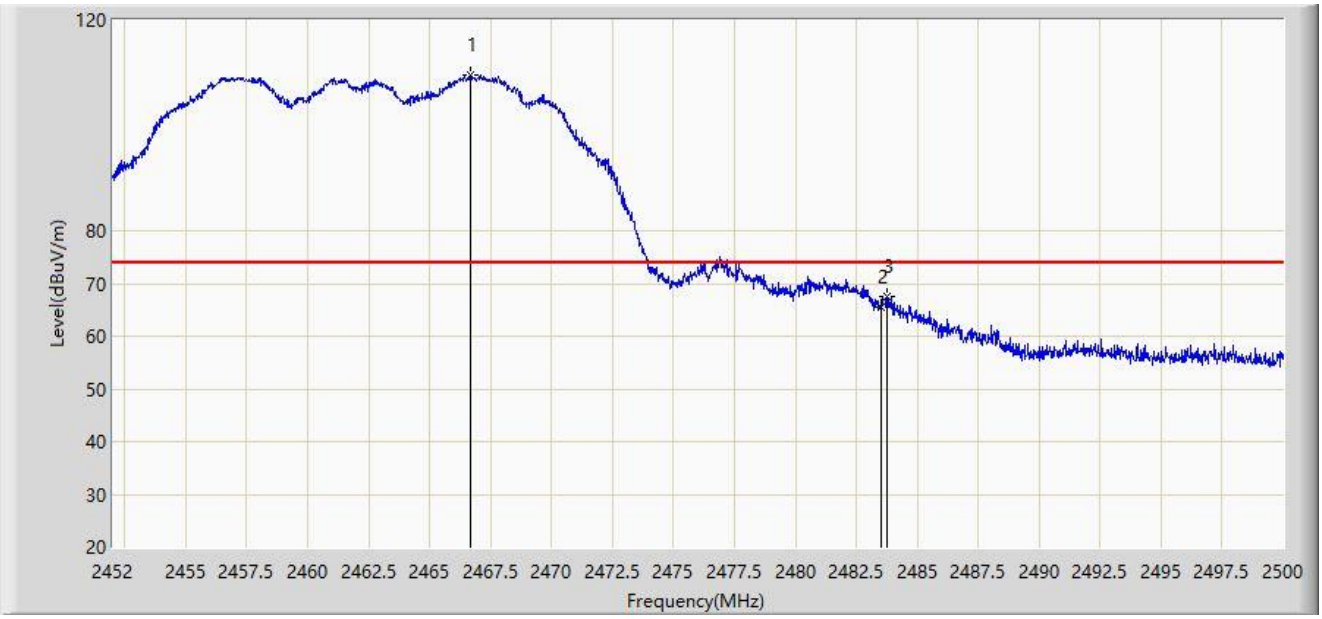
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	2390.000	49.818	19.292	-4.182	54.000	30.526	AV
2		2410.632	96.062	65.504	N/A	N/A	30.558	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2462MHz	



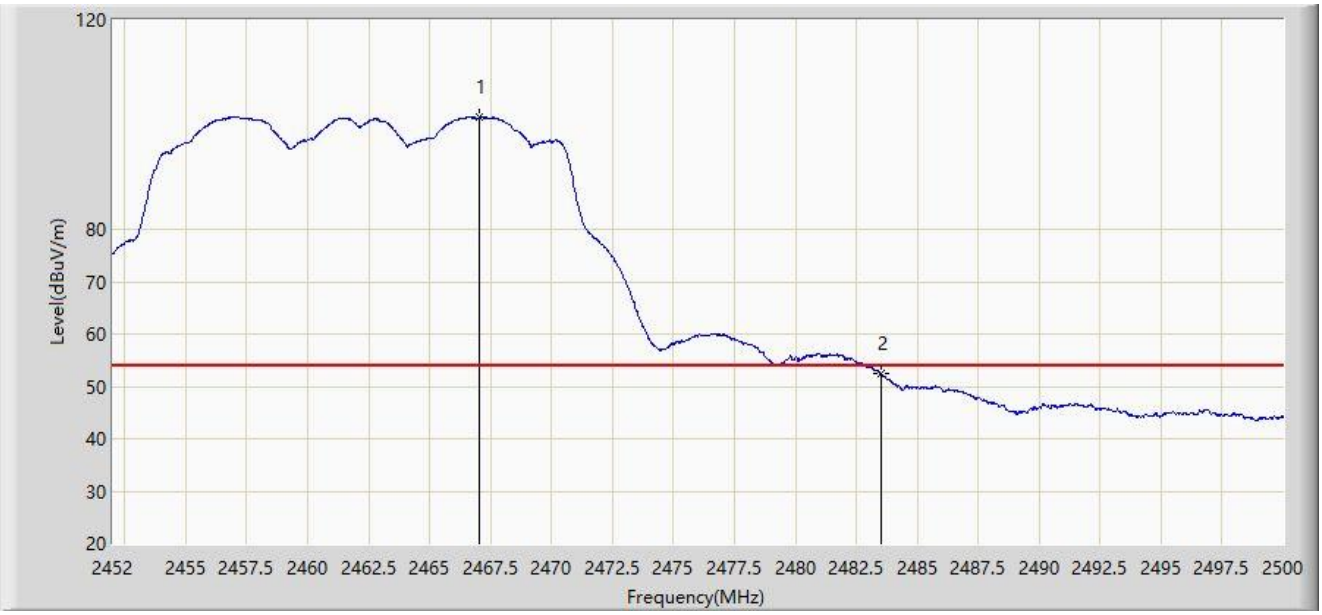
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2466.664	109.653	78.993	N/A	N/A	30.660	PK
2		2483.500	65.480	34.777	-8.520	74.000	30.704	PK
3	*	2483.752	67.650	36.946	-6.350	74.000	30.703	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1		2467.048	101.311	70.649	N/A	N/A	30.661	AV
2	*	2483.500	52.405	21.702	-1.595	54.000	30.704	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2462MHz	

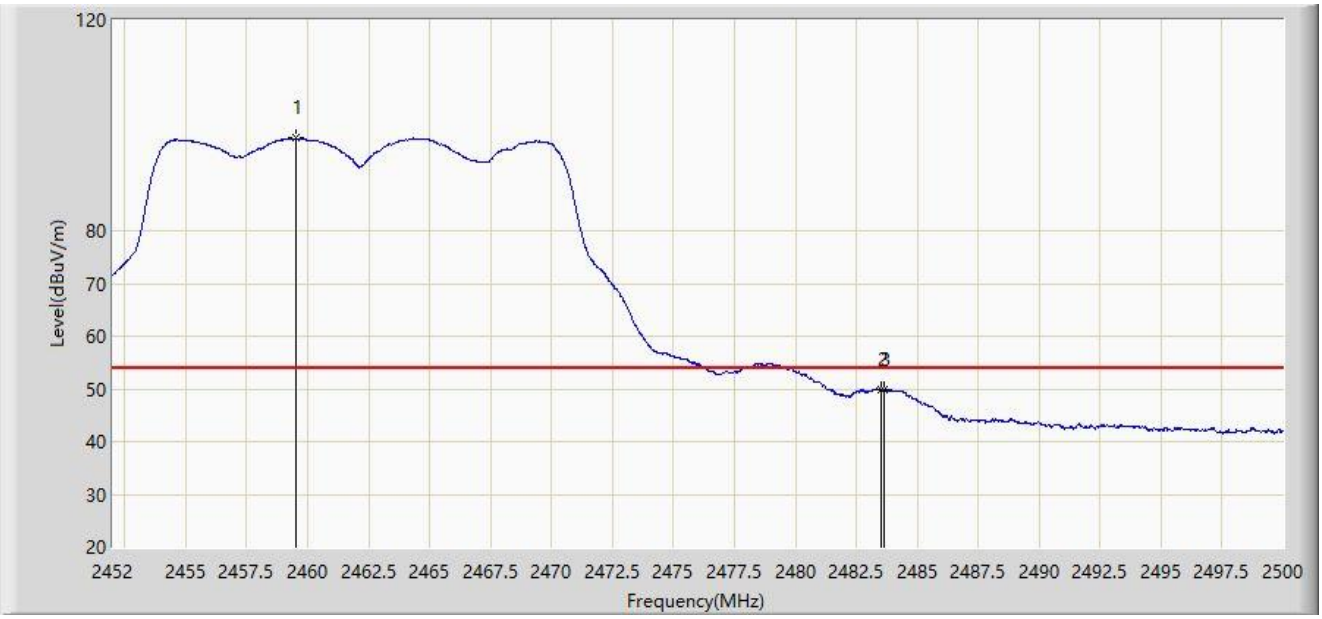
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2459.080	105.712	75.090	N/A	N/A	30.622	PK
2		2483.500	62.293	31.590	-11.707	74.000	30.704	PK
3	*	2484.088	64.045	33.341	-9.955	74.000	30.704	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11g at 2462MHz	



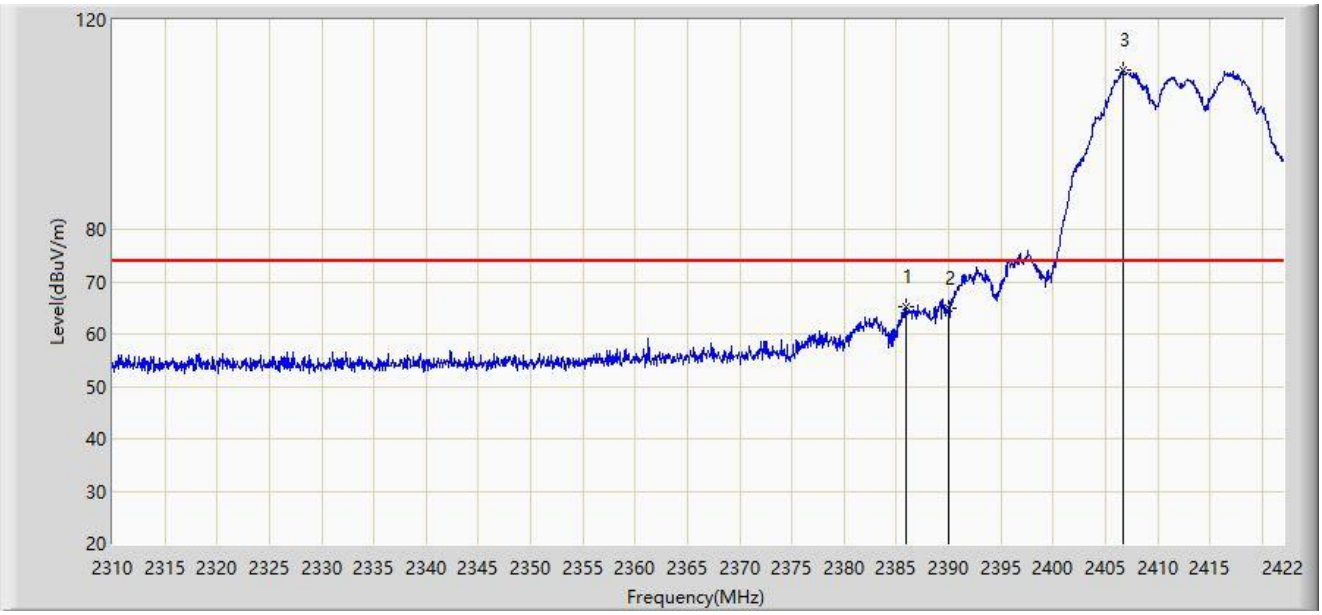
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2459.512	97.541	66.917	N/A	N/A	30.624	AV
2		2483.500	49.801	19.098	-4.199	54.000	30.704	AV
3	*	2483.656	49.970	19.266	-4.030	54.000	30.704	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



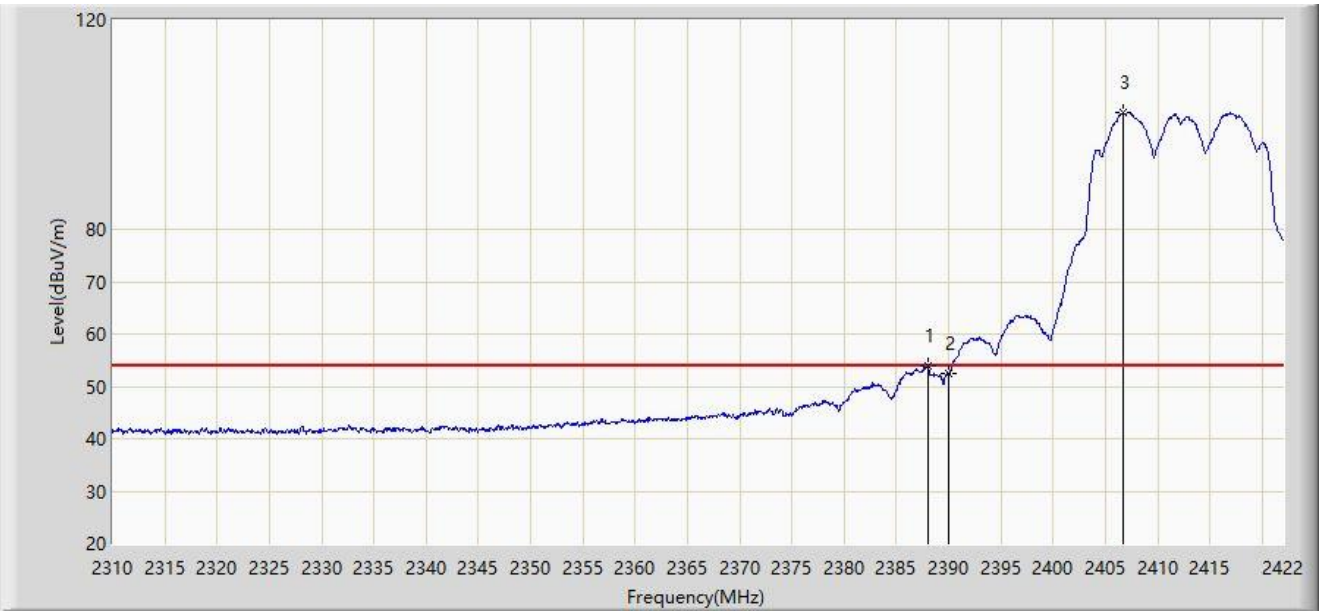
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2385.936	65.228	34.709	-8.772	74.000	30.519	PK
2		2390.000	65.002	34.476	-8.998	74.000	30.526	PK
3		2406.656	110.370	79.811	N/A	N/A	30.558	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



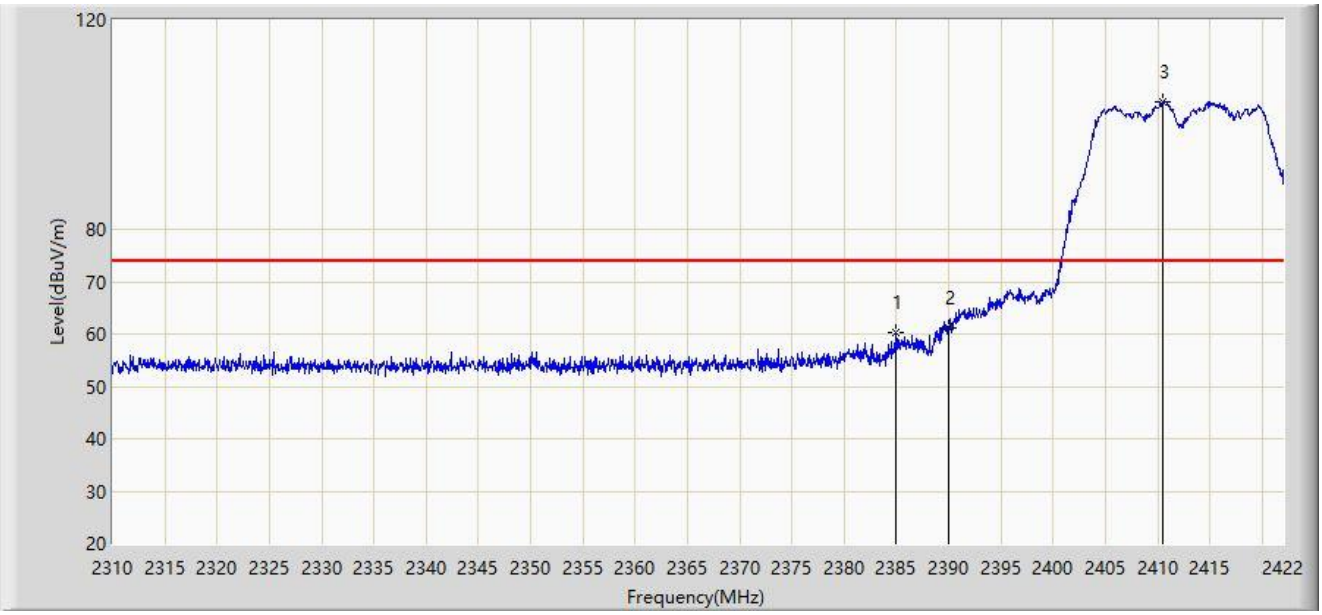
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1	*	2388.008	53.798	23.275	-0.202	54.000	30.523	AV
2		2390.000	52.452	21.926	-1.548	54.000	30.526	AV
3		2406.656	102.212	71.653	N/A	N/A	30.558	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



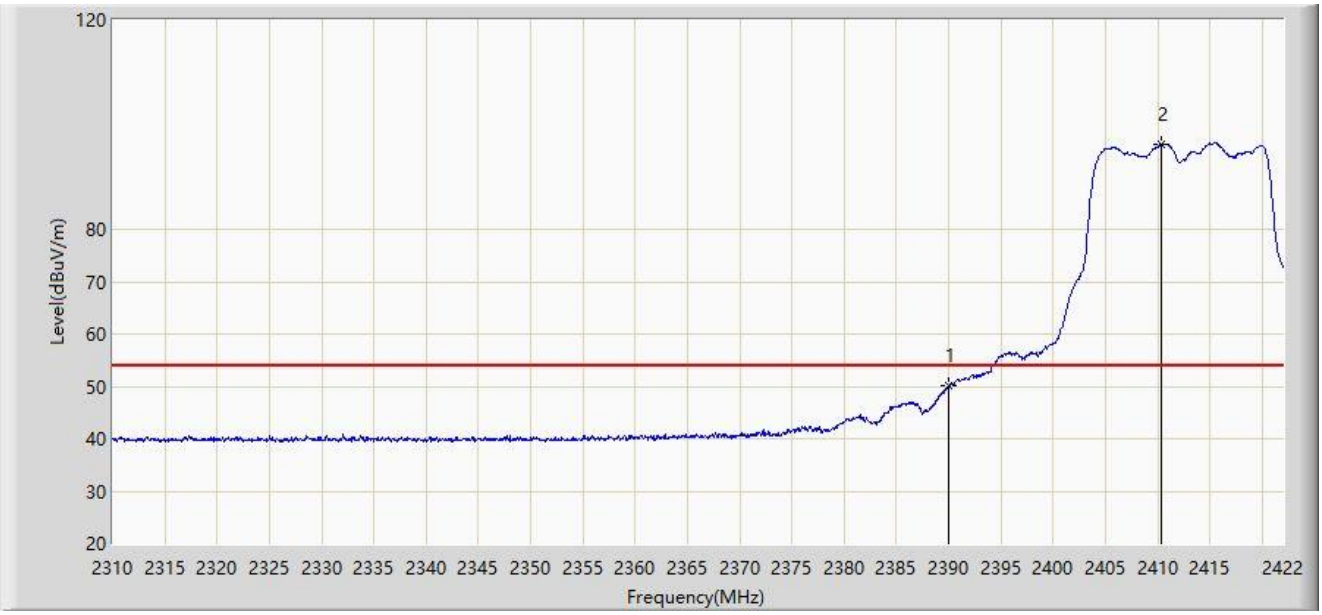
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2384.984	60.168	29.651	-13.832	74.000	30.517	PK
2	*	2390.000	61.194	30.668	-12.806	74.000	30.526	PK
3		2410.464	104.436	73.878	N/A	N/A	30.558	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at 2412MHz	



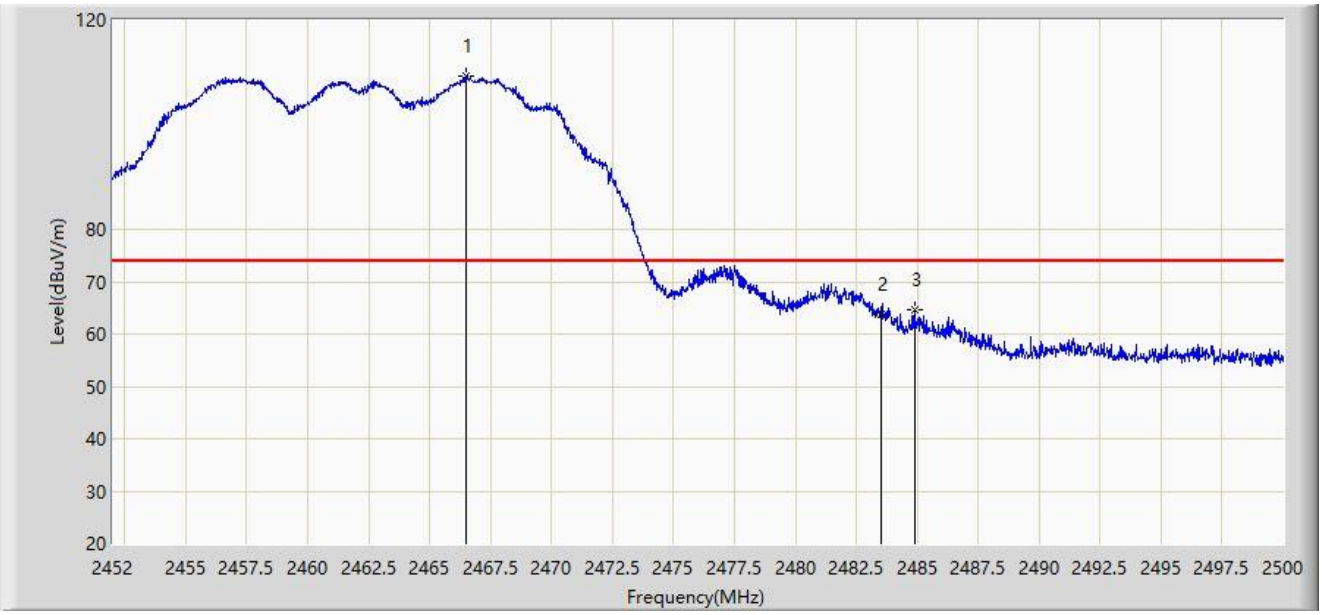
No	Mark	Frequency (MHz)	Measure Level (dBµV/m)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV/m)	Factor (dB/m)	Type
1	*	2390.000	50.018	19.492	-3.982	54.000	30.526	AV
2		2410.408	96.248	65.690	N/A	N/A	30.558	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV/m) = Reading Level (dBµV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2466.472	109.131	78.472	N/A	N/A	30.659	PK
2		2483.500	63.664	32.961	-10.336	74.000	30.704	PK
3	*	2484.904	64.721	34.017	-9.279	74.000	30.704	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Horizontal
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at 2462MHz	

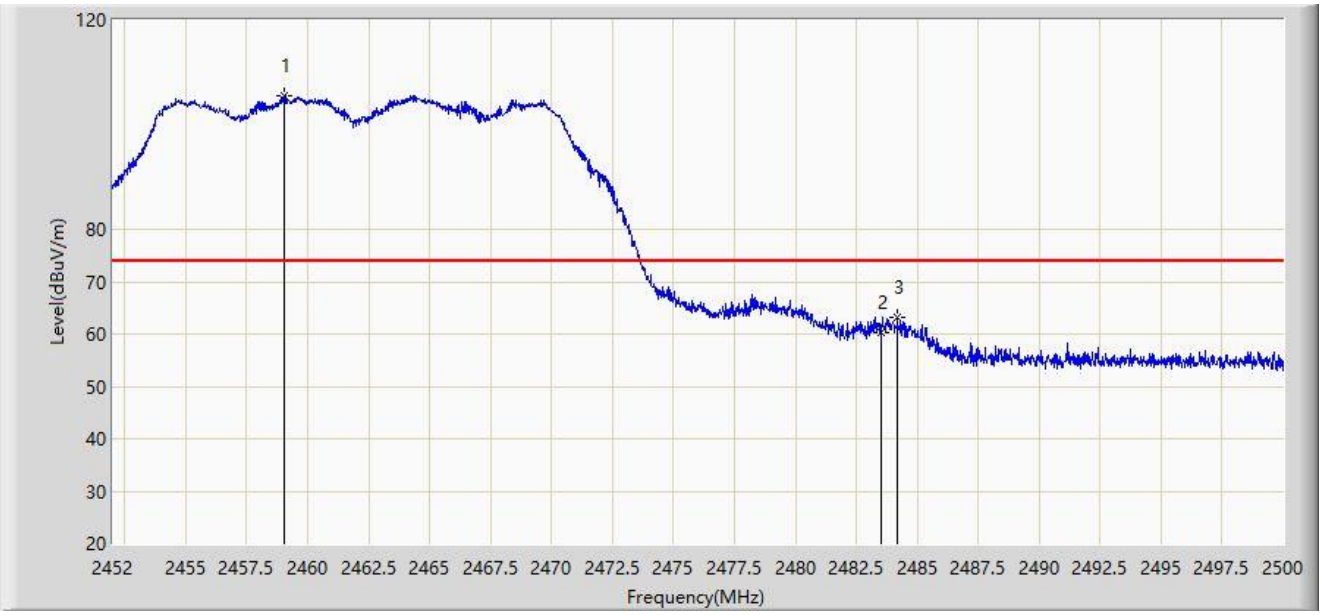
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2457.184	101.225	70.612	N/A	N/A	30.613	AV
2	*	2483.500	52.623	21.920	-1.377	54.000	30.704	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at 2462MHz	



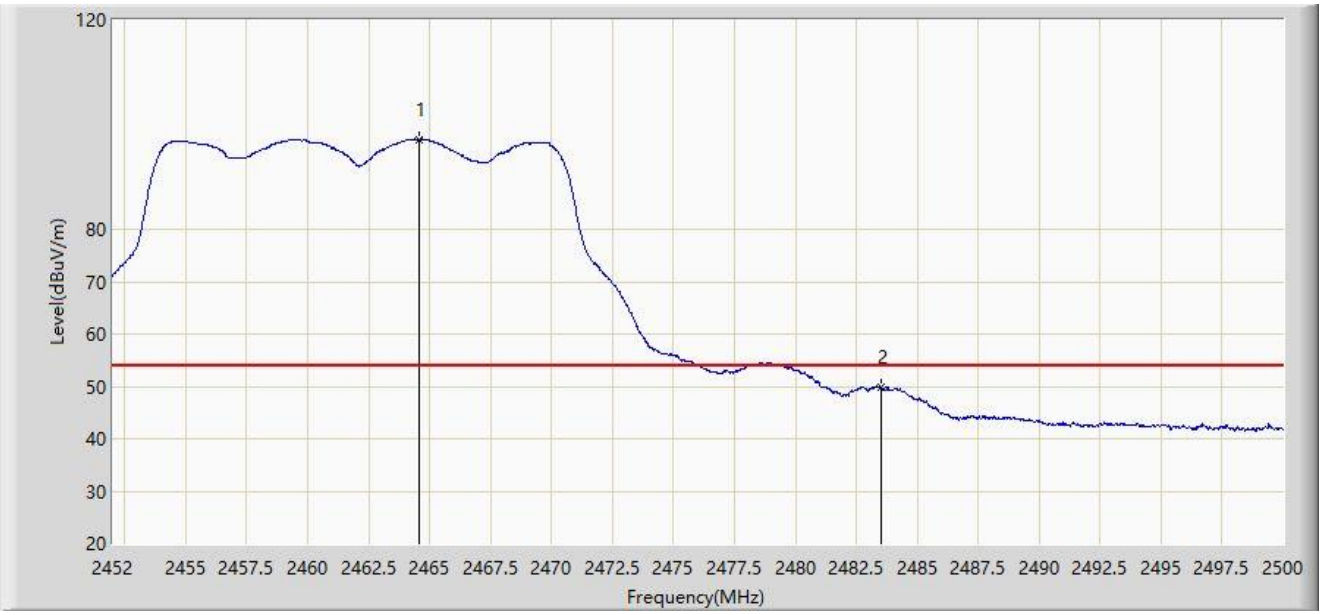
No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2459.056	105.580	74.958	N/A	N/A	30.622	PK
2		2483.500	60.263	29.560	-13.737	74.000	30.704	PK
3	*	2484.184	63.169	32.465	-10.831	74.000	30.704	PK

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

Site: WZ-AC1	Test Date: 2022-07-04
Limit: FCC_2.4G_RE(3m)	Engineer: Bob Zhang
Probe: BBHA9120D_1167_1-18GHz	Polarity: Vertical
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11n-HT20 at 2462MHz	



No	Mark	Frequency (MHz)	Measure Level (dBμV/m)	Reading Level (dBμV)	Margin (dB)	Limit (dBμV/m)	Factor (dB/m)	Type
1		2464.552	97.181	66.532	N/A	N/A	30.649	AV
2	*	2483.500	49.818	19.115	-4.182	54.000	30.704	AV

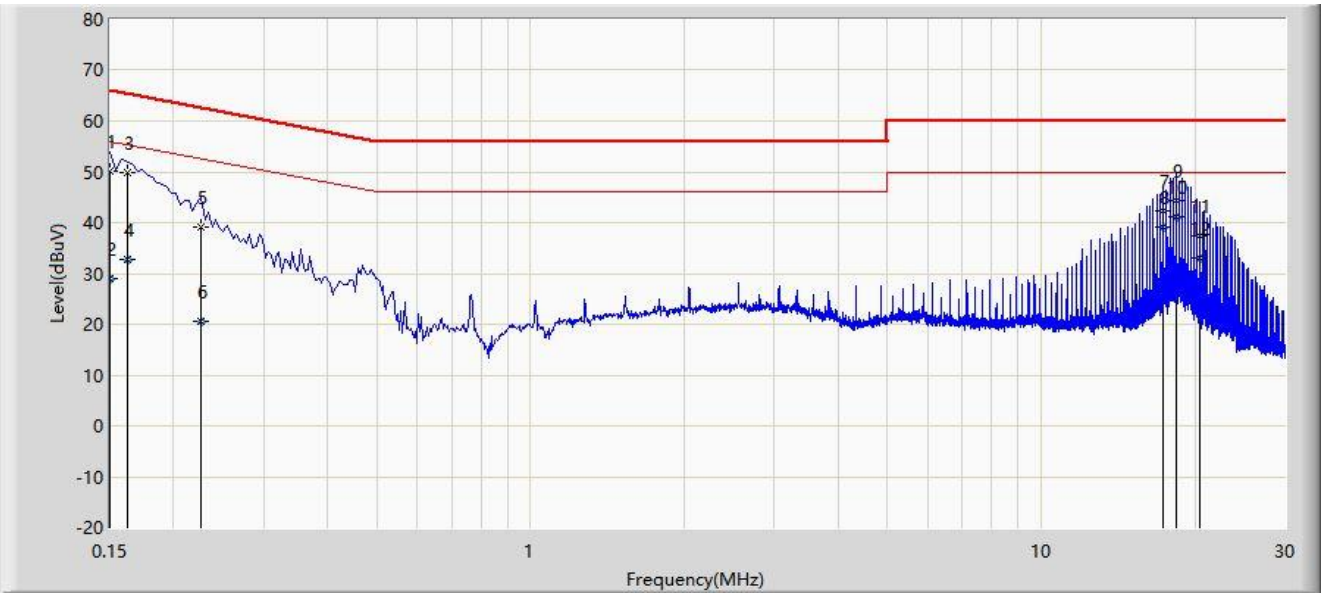
Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBμV/m) = Reading Level (dBμV) + Factor (dB/m).

Note 3: Factor (dB/m) = Cable Loss (dB) + Antenna Factor (dB/m).

A.8 AC Conducted Emissions Test Result

Site: WZ-SR2	Test Date: 2022-07-25
Limit: FCC_Part15.207_CE_AC Power	Engineer: Helen Han
Probe: ENV216_101683_Filter Off_E	Polarity: Line
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



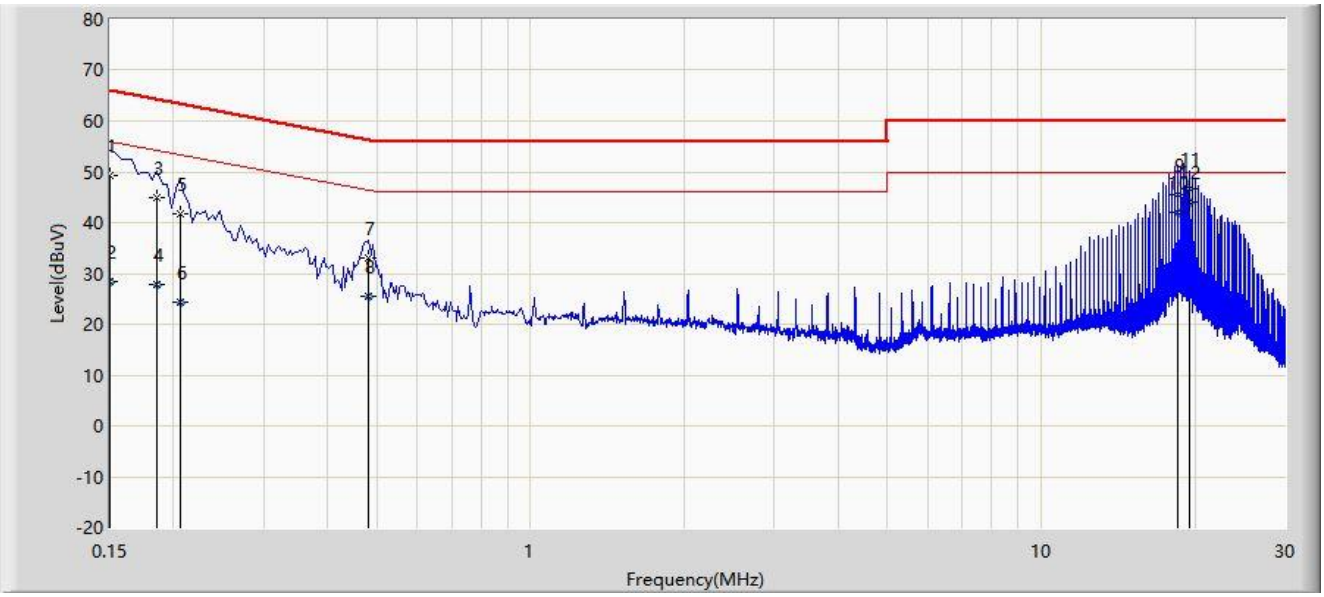
No	Mark	Frequency (MHz)	Measure Level (dBµV)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV)	Factor (dB)	Type
1		0.150	50.240	40.362	-15.760	66.000	9.878	QP
2		0.150	28.994	19.116	-27.006	56.000	9.878	AV
3		0.162	49.917	40.037	-15.443	65.361	9.880	QP
4		0.162	32.772	22.892	-22.589	55.361	9.880	AV
5		0.226	39.099	29.214	-23.496	62.595	9.885	QP
6		0.226	20.591	10.706	-32.004	52.595	9.885	AV
7		17.338	42.191	30.854	-17.809	60.000	11.337	QP
8		17.338	39.254	27.917	-10.746	50.000	11.337	AV
9		18.358	44.371	32.948	-15.629	60.000	11.423	QP
10	*	18.358	41.033	29.610	-8.967	50.000	11.423	AV
11		20.394	37.300	25.718	-22.700	60.000	11.582	QP
12		20.394	33.111	21.530	-16.889	50.000	11.582	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV) = Reading Level (dBµV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Site: WZ-SR2	Test Date: 2022-07-25
Limit: FCC_Part15.207_CE_AC Power	Engineer: Helen Han
Probe: ENV216_101683_Filter Off_E	Polarity: Neutral
EUT: Barracuda NextGen Firewall	Power: AC 120V/60Hz
Test Mode: Transmit by 802.11b at 2412MHz	



No	Mark	Frequency (MHz)	Measure Level (dBµV)	Reading Level (dBµV)	Margin (dB)	Limit (dBµV)	Factor (dB)	Type
1		0.150	49.183	39.283	-16.817	66.000	9.900	QP
2		0.150	28.367	18.467	-27.633	56.000	9.900	AV
3		0.186	45.060	35.153	-19.153	64.213	9.907	QP
4		0.186	27.853	17.946	-26.360	54.213	9.907	AV
5		0.206	41.795	31.884	-21.570	63.365	9.911	QP
6		0.206	24.288	14.377	-29.077	53.365	9.911	AV
7		0.482	33.041	23.085	-23.263	56.305	9.957	QP
8		0.482	25.485	15.528	-20.820	46.305	9.957	AV
9		18.546	45.375	33.913	-14.625	60.000	11.462	QP
10		18.546	41.907	30.445	-8.093	50.000	11.462	AV
11		19.558	46.668	35.117	-13.332	60.000	11.551	QP
12	*	19.558	43.957	32.406	-6.043	50.000	11.551	AV

Note 1: " * ", means this data is the worst emission level.

Note 2: Measure Level (dBµV) = Reading Level (dBµV) + Factor (dB).

Note 3: Factor (dB) = Cable Loss (dB) + LISN Factor (dB).

Appendix B – Test Setup Photograph

Refer to “2206RSU070-UT” file.

Appendix C – EUT Photograph

Refer to “2206RSU070-UE” file.

The End