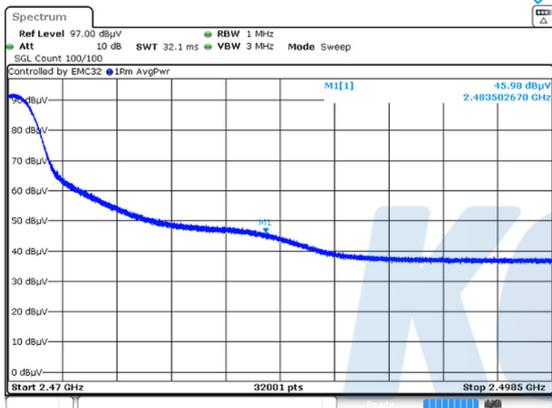


802.11ax_HE20 SU mode / 2 462 MHz

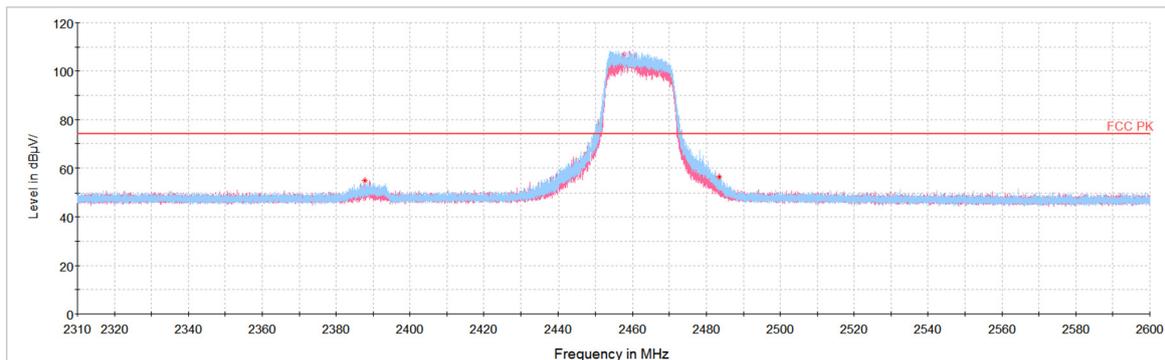
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 387.85 ¹⁾	H	52.00	31.88	-29.05	-	54.83	74.00	19.17
2 483.50 ¹⁾	H	53.61	32.07	-29.21	-	56.47	74.00	17.53
Average Data								
2 387.85 ¹⁾	H	42.60	31.88	-29.05	-	45.43	54.00	8.57
2 483.50 ¹⁾	H	45.98	32.07	-29.21	-	48.84	54.00	5.16

Average data



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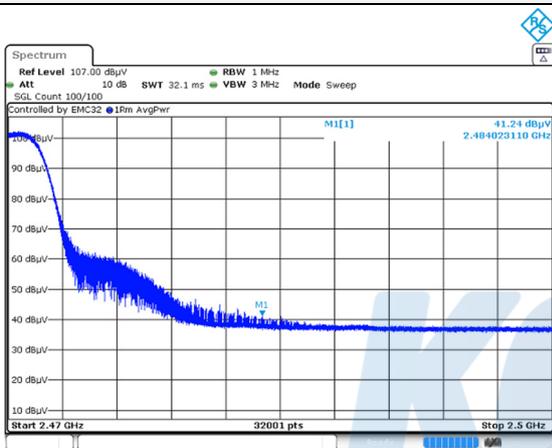
Horizontal/Vertical for Band-edge



802.11ax_RU mode(HE 20 / 26T / RU offset 8) / 2 462 MHz

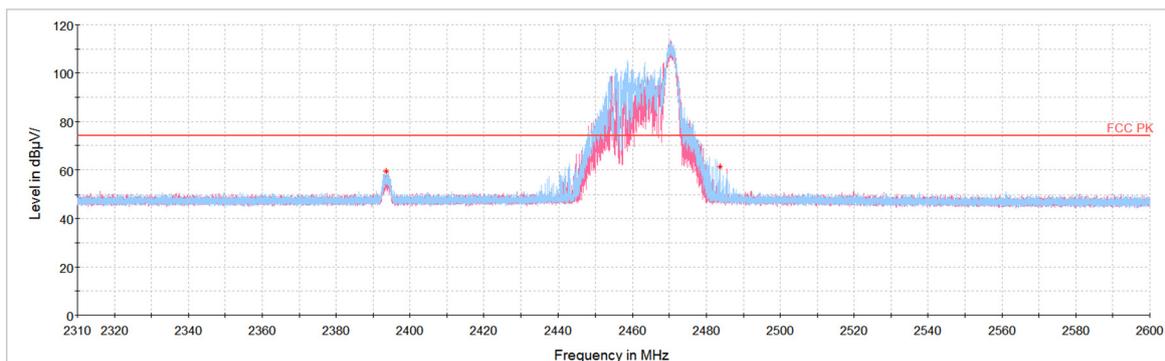
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 393.64	H	56.57	31.89	-29.02	-	59.44	74.00	14.56
2 484.02 ¹⁾	H	58.47	32.07	-29.22	-	61.32	74.00	12.68
Average Data								
2 484.02 ¹⁾	H	41.24	32.07	-29.22	-	44.09	54.00	9.91

Average data



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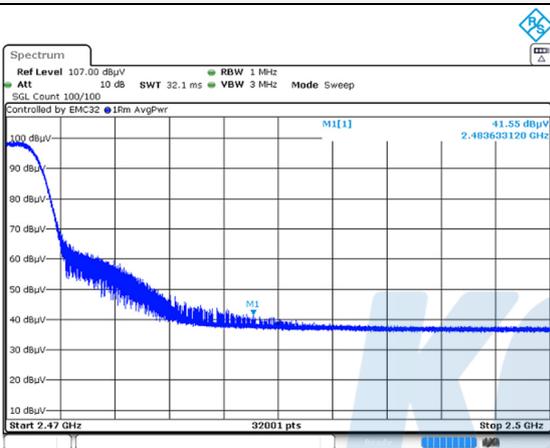
Horizontal/Vertical for Band-edge



802.11ax_RU mode(HE 20 / 52T / RU offset 40) / 2 462 MHz

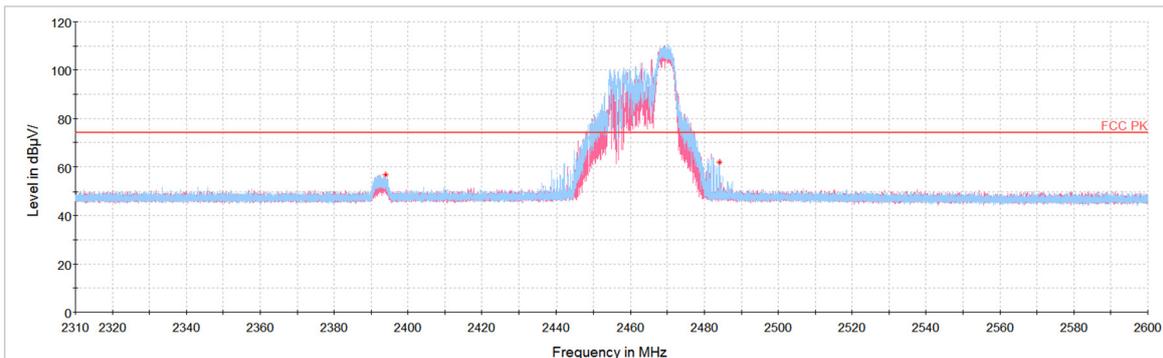
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 393.90	H	53.89	31.89	-29.02	-	56.76	74.00	17.24
2 483.63 ¹⁾	H	59.03	32.07	-29.21	-	61.89	74.00	12.11
Average Data								
2 483.63 ¹⁾	H	41.55	32.07	-29.21	-	44.41	54.00	9.59

Average data



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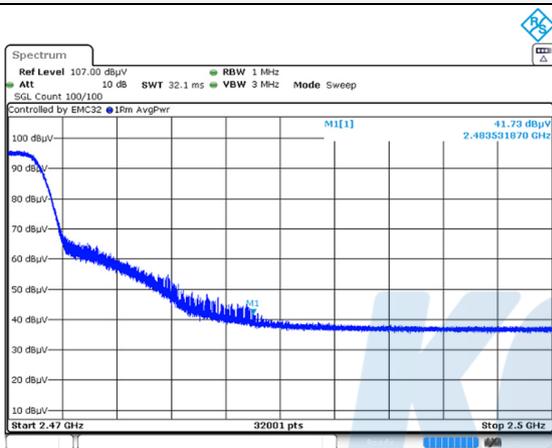
Horizontal/Vertical for Band-edge



802.11ax_RU mode(HE 20 / 106T / RU offset 54) / 2 462 MHz

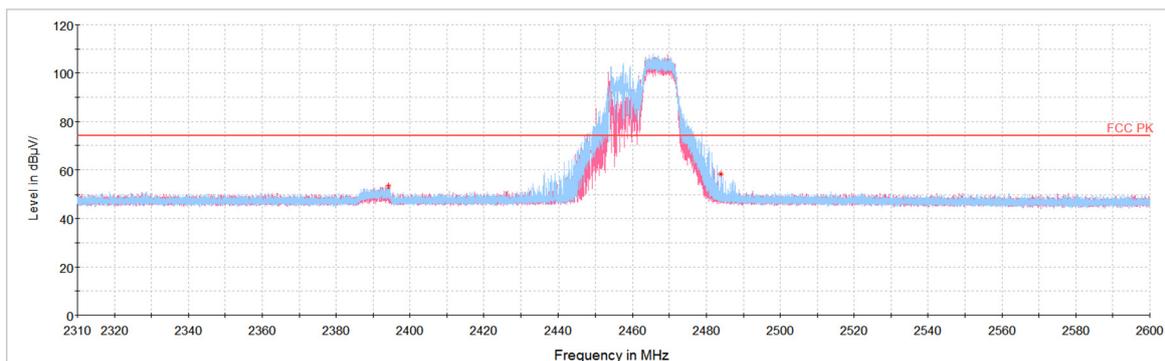
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 394.19	H	50.53	31.89	-29.02	-	53.40	74.00	20.60
2 483.53 ¹⁾	H	55.16	32.07	-29.21	-	58.02	74.00	15.98
Average Data								
2 483.53 ¹⁾	H	41.73	32.07	-29.21	-	44.59	54.00	9.41

Average data



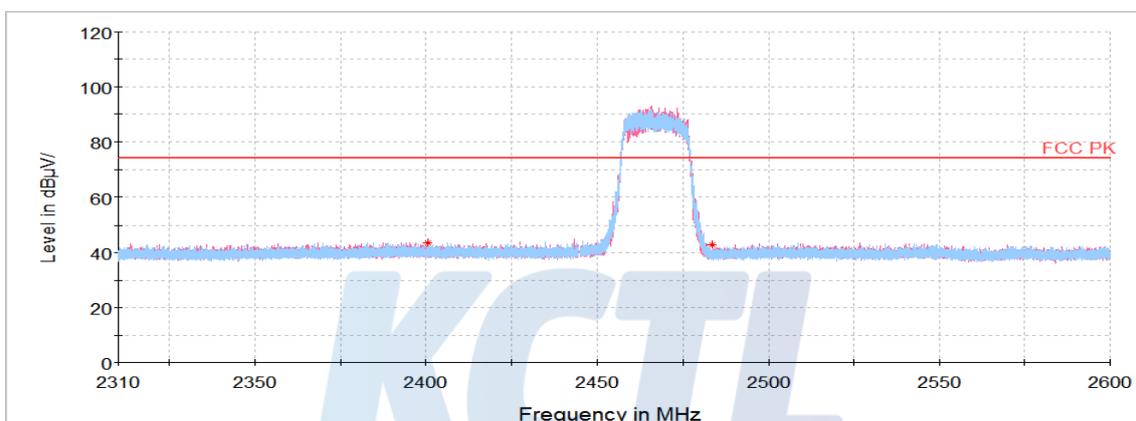
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Horizontal/Vertical for Band-edge



802.11ax_HE20 SU mode / 2 467 MHz

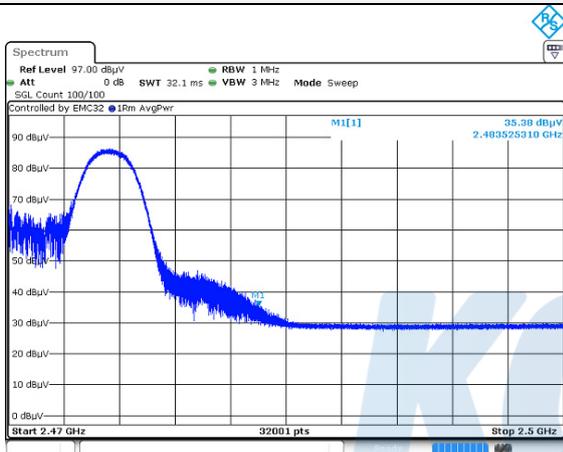
Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp. + Cable (dB)	DCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
2 400.53	H	40.69	31.90	-28.99	-	43.60	74.00	30.40
2 483.54 ¹⁾	H	39.82	32.07	-29.21	-	42.68	74.00	31.32
Average Data								
No spurious emissions were detected within 20 dB of the limit								

Horizontal/Vertical for Band-edge

802.11ax_RU mode(HE 20 / 26T / RU offset 8) / 2 467 MHz

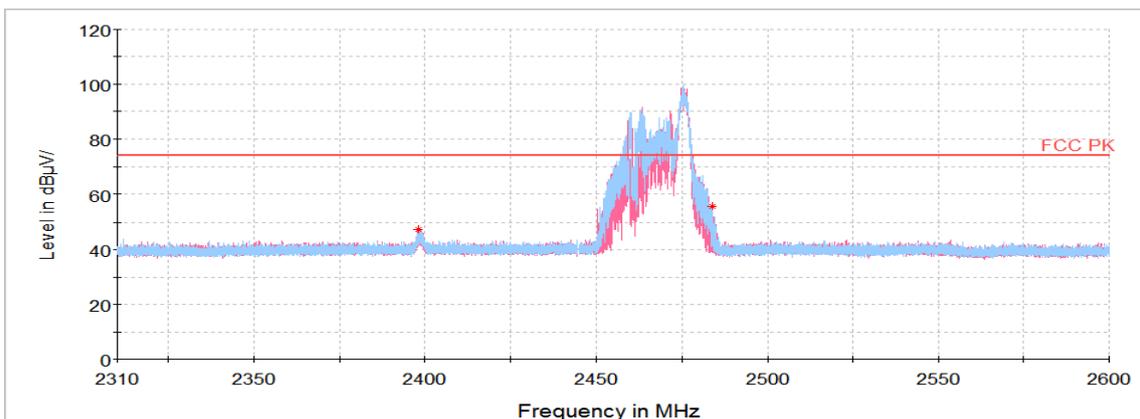
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 398.34	V	44.55	31.90	-28.99	-	47.46	74.00	26.54
2 483.53 ¹⁾	H	52.41	32.07	-29.21	-	55.27	74.00	18.73
Average Data								
2 483.53 ¹⁾	H	35.38	32.07	-29.21	-	38.24	54.00	15.76

Average data



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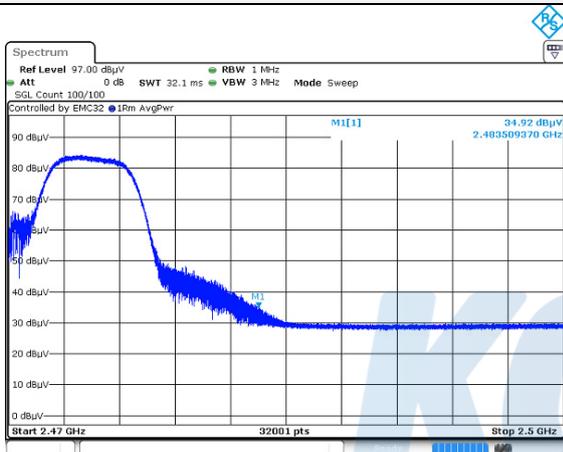
Horizontal/Vertical for Band-edge



802.11ax_RU mode(HE 20 / 52T / RU offset 40) / 2 467 MHz

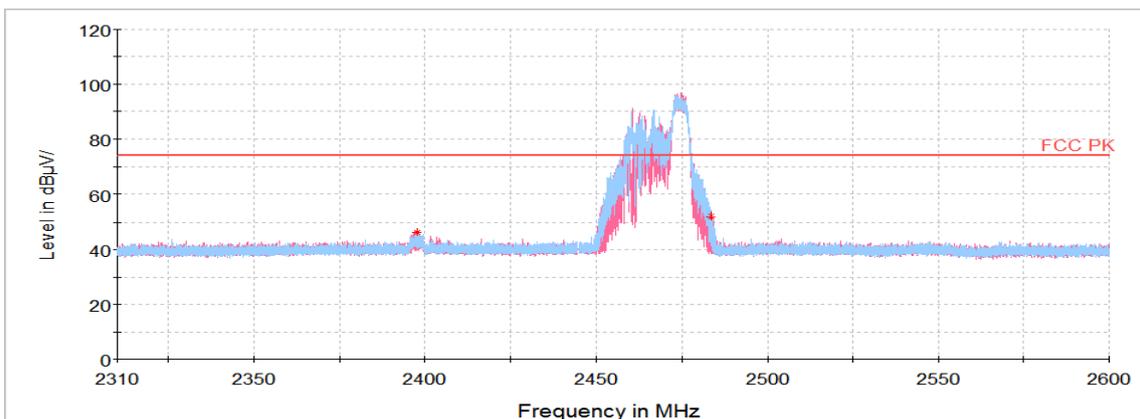
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 397.93	H	43.38	31.90	-28.99	-	46.29	74.00	27.71
2 483.51 ¹⁾	H	49.17	32.07	-29.21	-	52.03	74.00	21.97
Average Data								
2 483.51 ¹⁾	H	34.92	32.07	-29.21	-	37.78	54.00	16.22

Average data



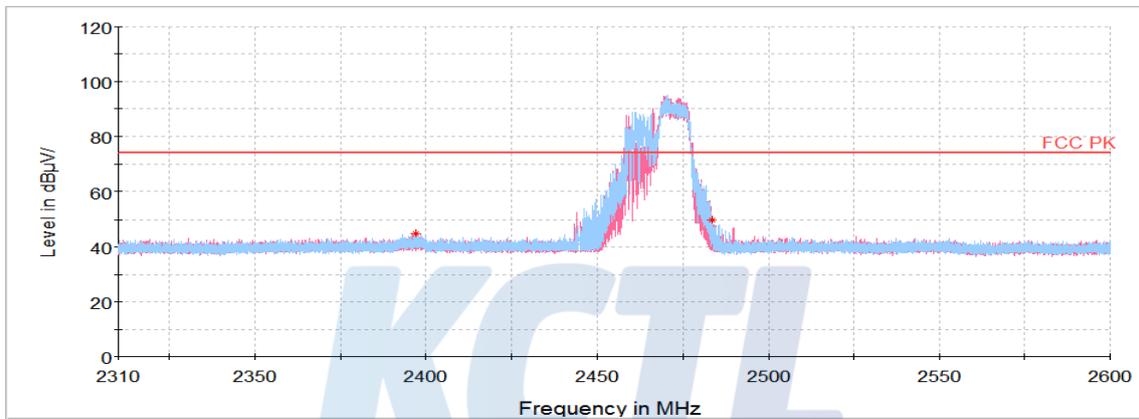
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Horizontal/Vertical for Band-edge



802.11ax_RU mode(HE 20 / 106T / RU offset 54) / 2 467 MHz

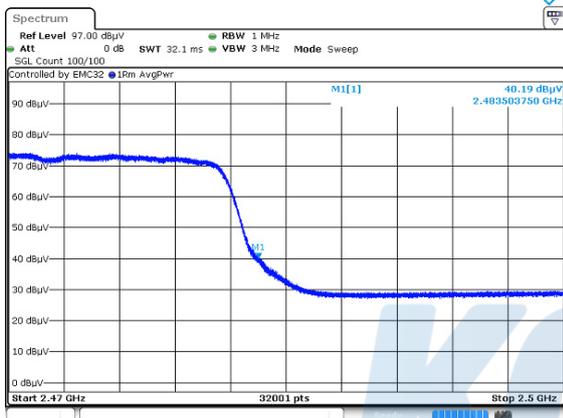
Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp. + Cable (dB)	DCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
2 397.12	H	42.05	31.89	-29.00	-	44.94	74.00	29.06
2 483.60 ¹⁾	H	47.06	32.07	-29.21	-	49.92	74.00	24.08
Average Data								
No spurious emissions were detected within 20 dB of the limit								

Horizontal/Vertical for Band-edge

802.11ax_HE20 SU mode / 2 472 MHz

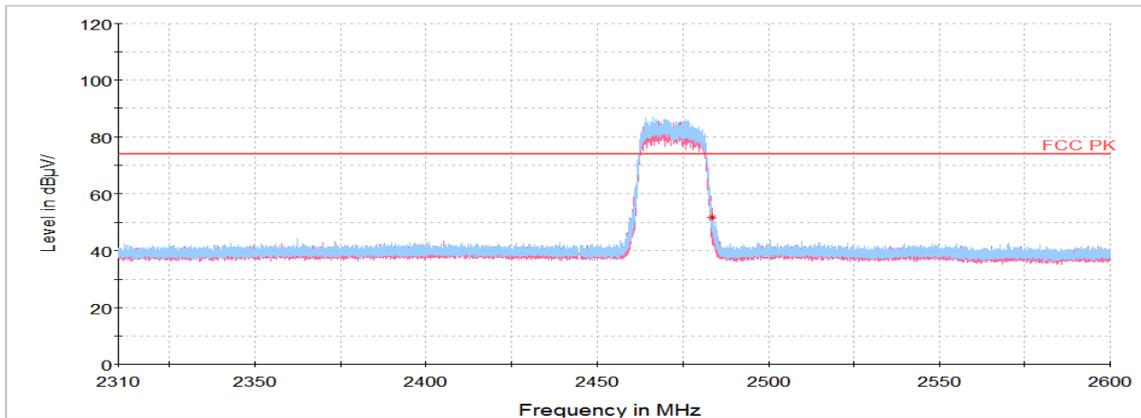
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.50 ¹⁾	H	48.90	32.07	-29.21	-	51.76	74.00	22.24
Average Data								
2 483.50 ¹⁾	H	40.19	32.07	-29.21	-	43.05	54.00	10.95

Average data



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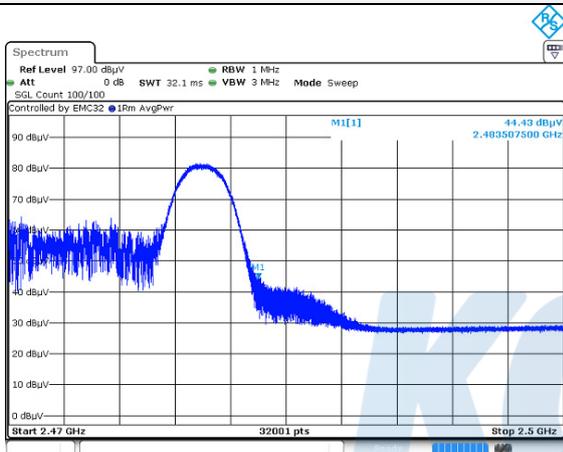
Horizontal/Vertical for Band-edge



802.11ax_RU mode(HE 20 / 26T / RU offset 8) / 2 472 MHz

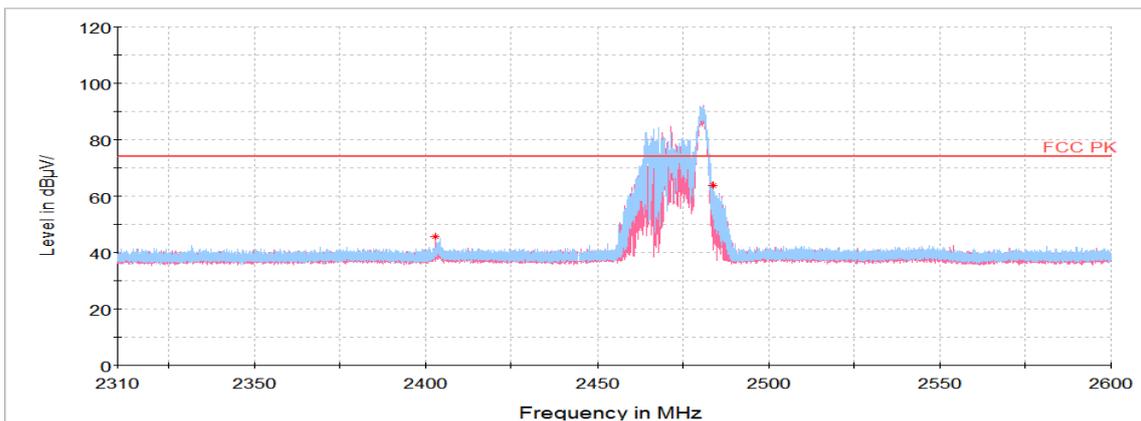
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 403.01	V	42.93	31.91	-28.99	-	45.85	74.00	28.15
2 483.51 ¹⁾	H	60.67	32.07	-29.21	-	63.53	74.00	10.47
Average Data								
2 483.51 ¹⁾	H	44.43	32.07	-29.21	-	47.29	54.00	6.71

Average data



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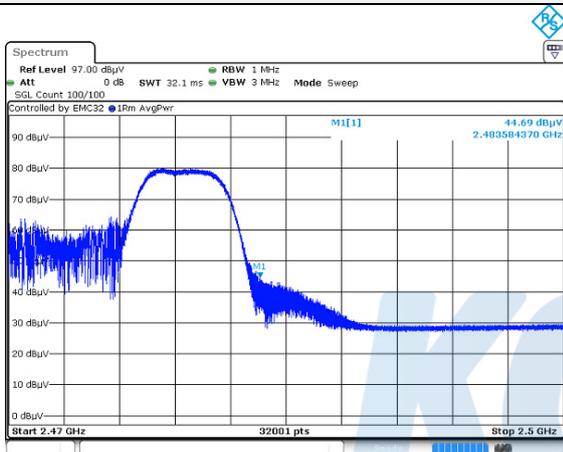
Horizontal/Vertical for Band-edge



802.11ax_RU mode(HE 20 / 52T / RU offset 40) / 2 472 MHz

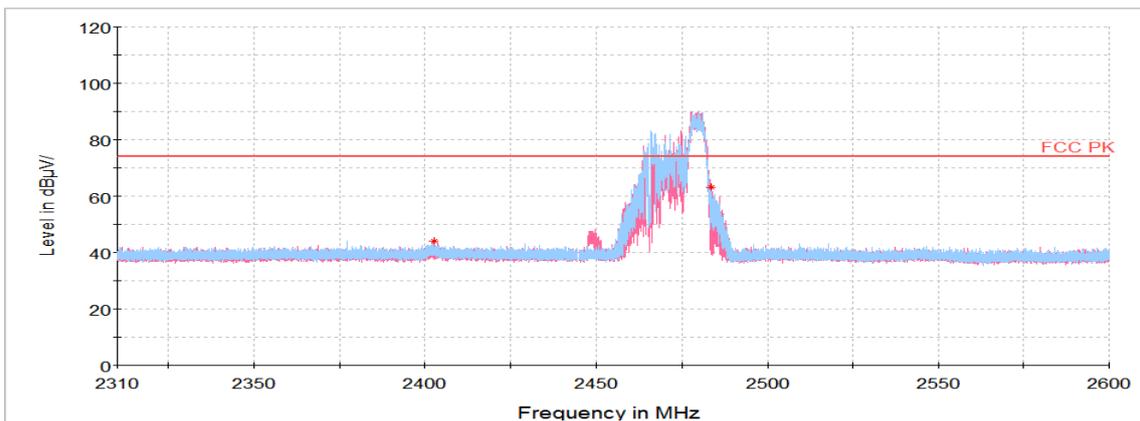
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 402.84	H	41.26	31.91	-28.99	-	44.18	74.00	29.82
2 483.58 ¹⁾	H	60.20	32.07	-29.21	-	63.06	74.00	10.94
Average Data								
2 483.58 ¹⁾	H	44.69	32.07	-29.21	-	47.55	54.00	6.45

Average data



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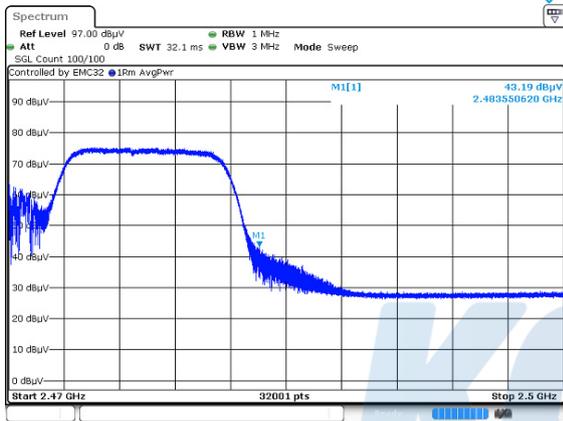
Horizontal/Vertical for Band-edge



802.11ax_RU mode(HE 20 / 106T / RU offset 54) / 2 472 MHz

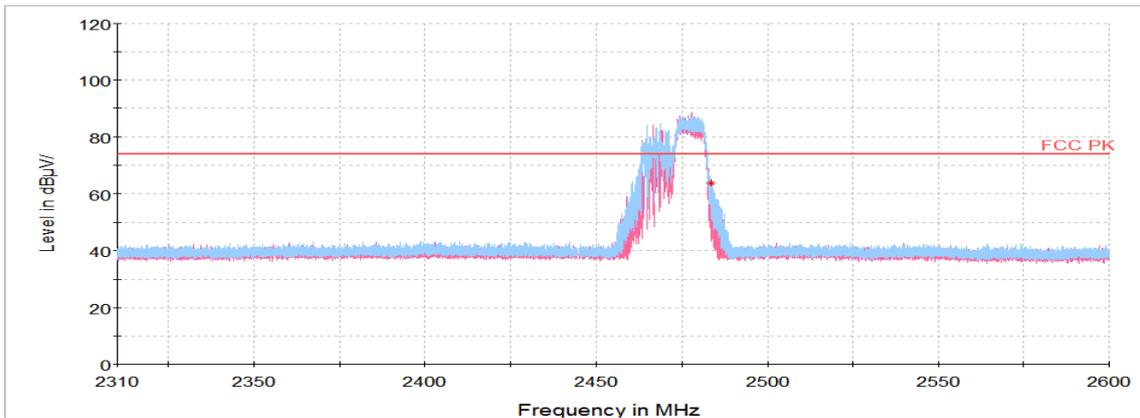
Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
2 483.55 ¹⁾	H	60.63	32.07	-29.21	-	63.49	74.00	10.51
Average Data								
2 483.55 ¹⁾	H	43.19	32.07	-29.21	-	46.05	54.00	7.95

Average data



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Horizontal/Vertical for Band-edge



MIMO Harmonics and Spurious Emissions

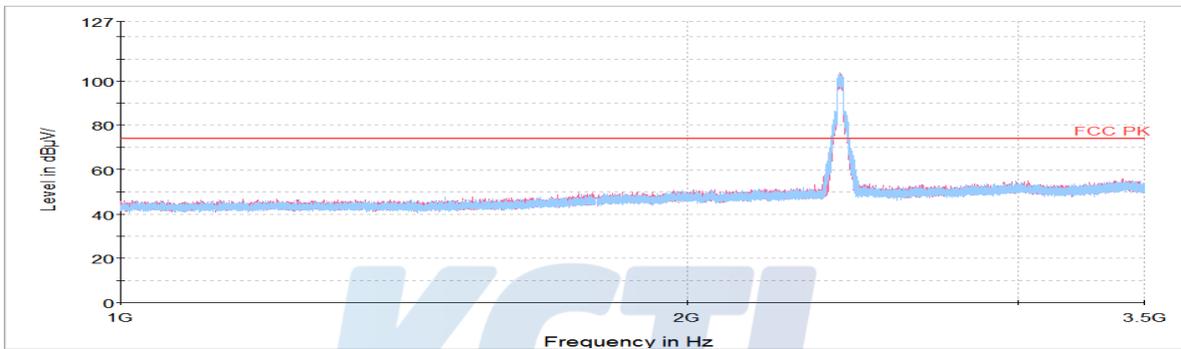
802.11ax_HE20 SU mode / 2 412 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
4 819.05 ¹⁾	H	63.13	33.93	-53.44	-	43.62	74.00	30.38
7 233.30	V	61.58	35.40	-52.98	-	44.00	74.00	30.00

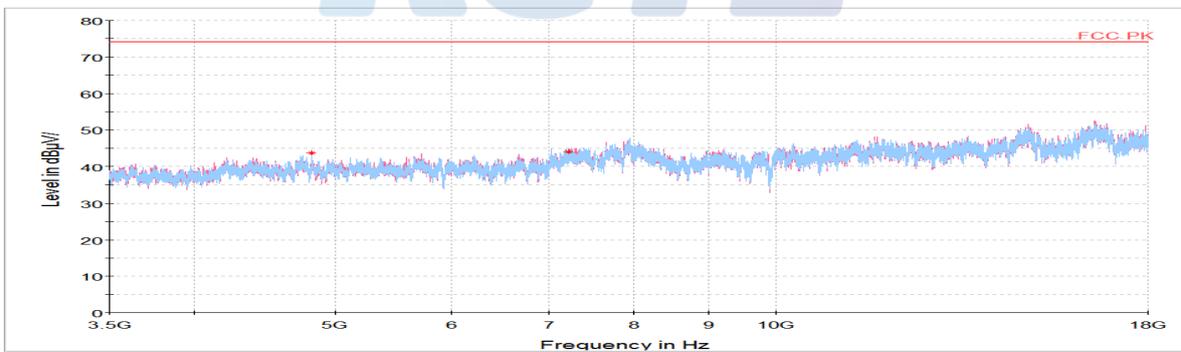
Average Data

No spurious emissions were detected within 20 dB of the limit

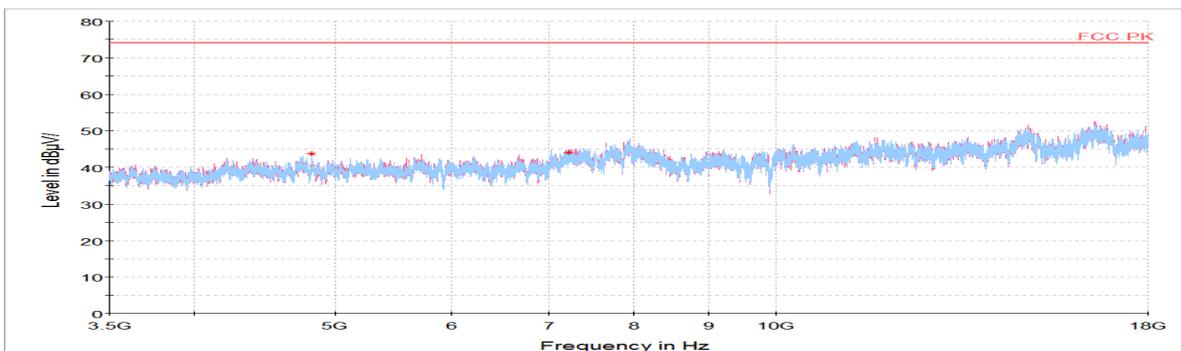
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



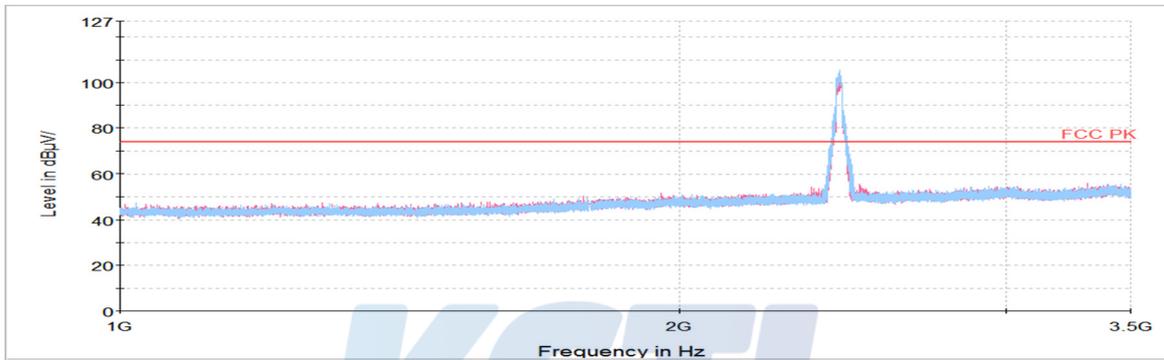
802.11ax_HE20 SU mode / 2 437 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
4 873.88 ¹⁾	H	63.70	33.95	-54.99	-	42.66	74.00	31.34
7 313.50 ¹⁾	H	61.76	35.40	-52.68	-	44.48	74.00	29.52

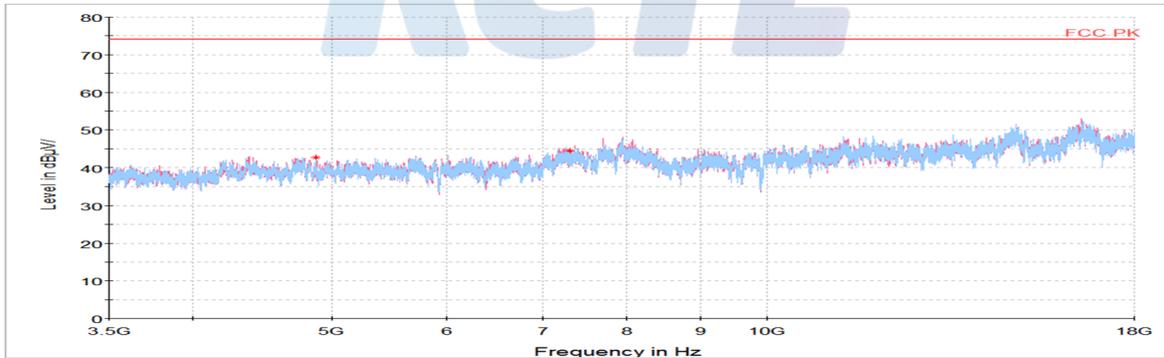
Average Data

No spurious emissions were detected within 20 dB of the limit

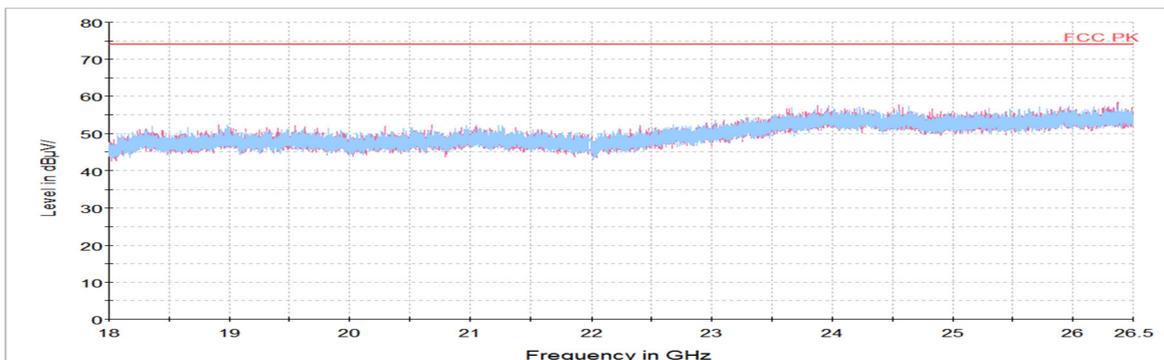
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



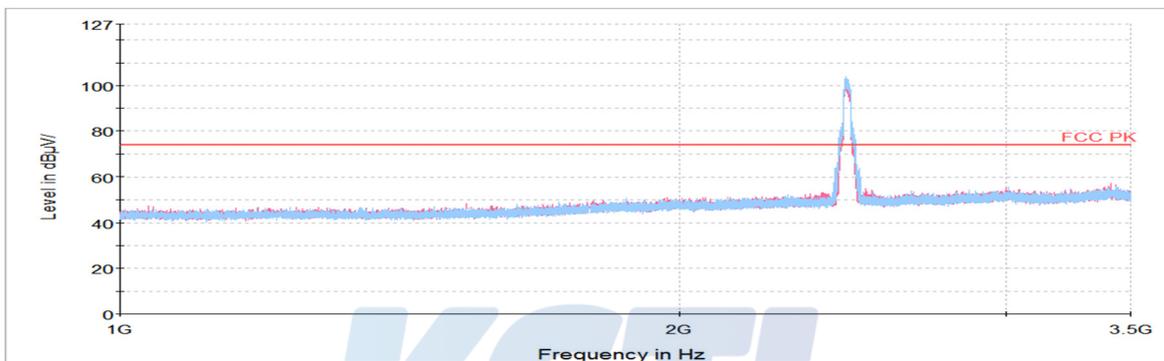
802.11ax_HE20 SU mode / 2 462 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
4 926.44 ¹⁾	V	61.44	33.97	-55.26	-	40.15	74.00	33.85
7 390.53 ¹⁾	V	61.97	35.40	-52.39	-	44.98	74.00	29.02

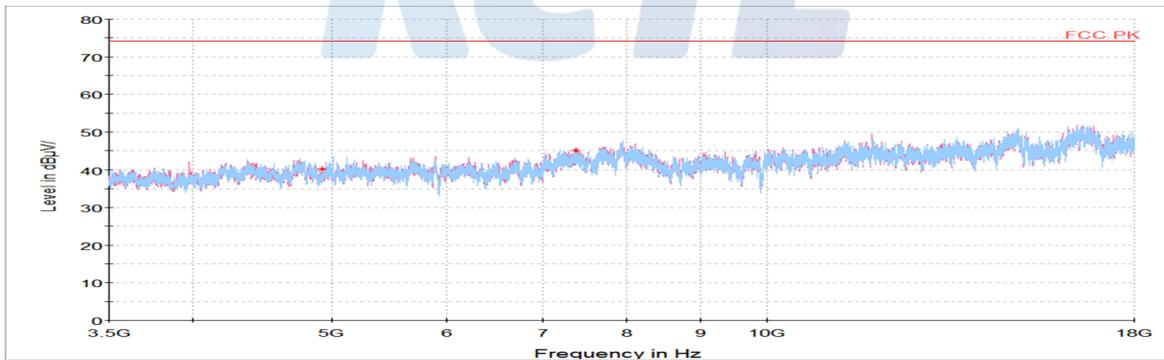
Average Data

No spurious emissions were detected within 20 dB of the limit

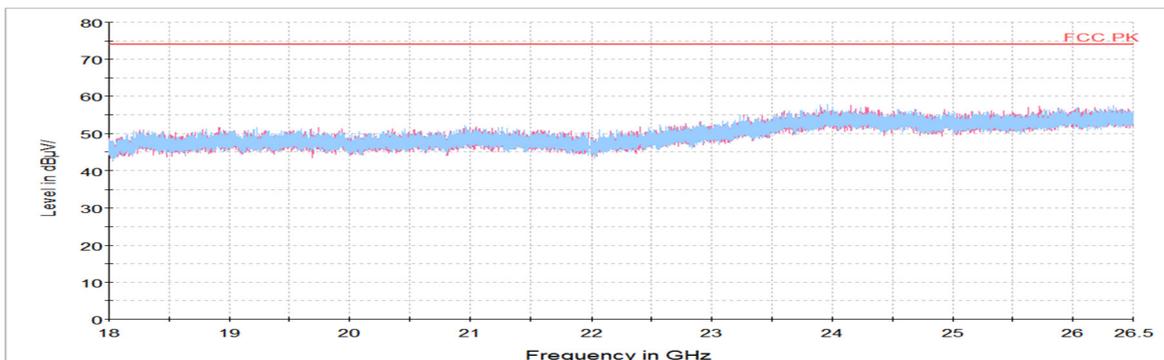
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



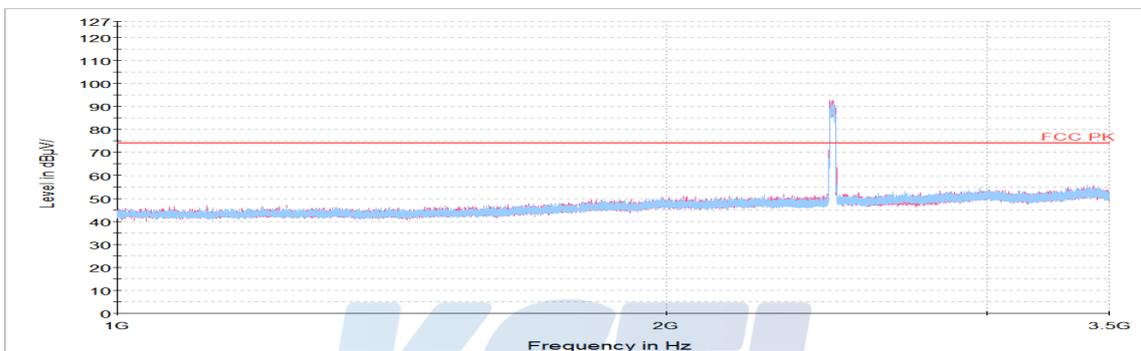
802.11ax_HE20 SU mode / 2 467 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
4 940.48 ¹⁾	V	60.32	33.98	-55.01	-	39.29	74.00	34.71
16 540.03	V	55.86	41.54	-45.64	-	51.76	74.00	22.24

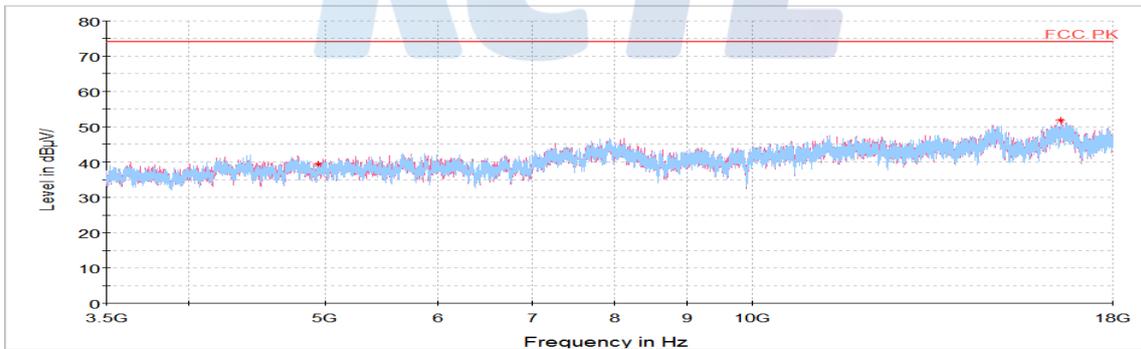
Average Data

No spurious emissions were detected within 20 dB of the limit

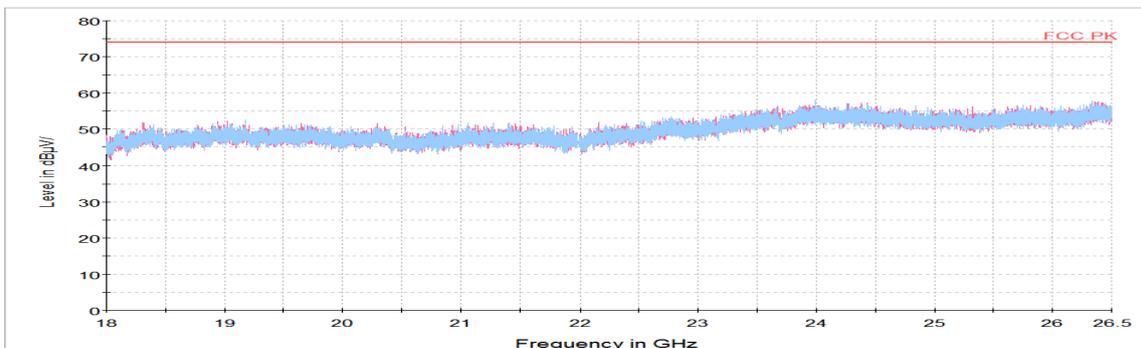
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



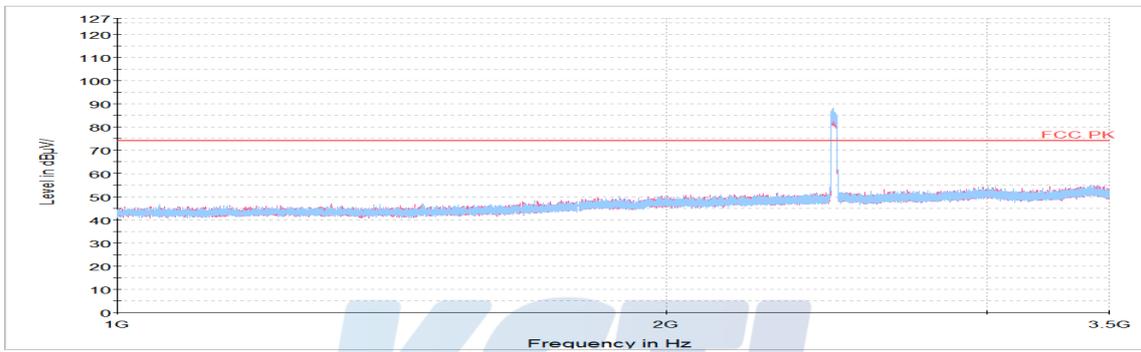
802.11ax_HE20 SU mode / 2 472 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
4 944.11 ¹⁾	V	61.10	33.98	-54.95	-	40.13	74.00	33.87
16 558.16	H	55.34	41.56	-45.70	-	51.20	74.00	22.80

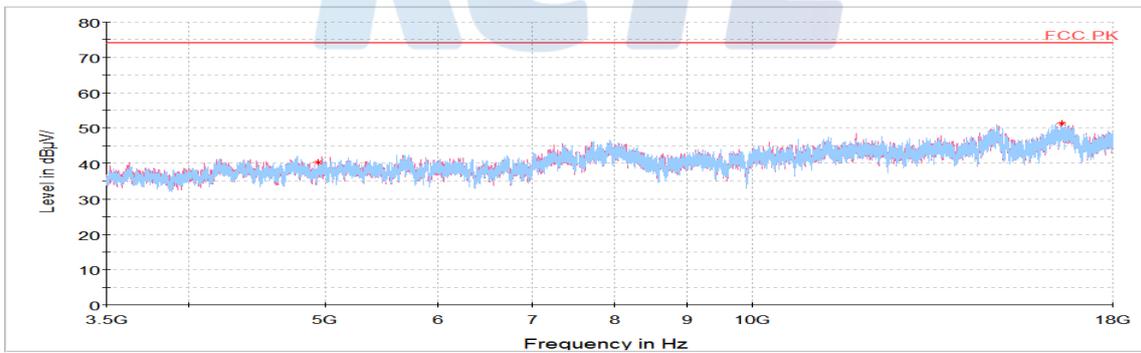
Average Data

No spurious emissions were detected within 20 dB of the limit

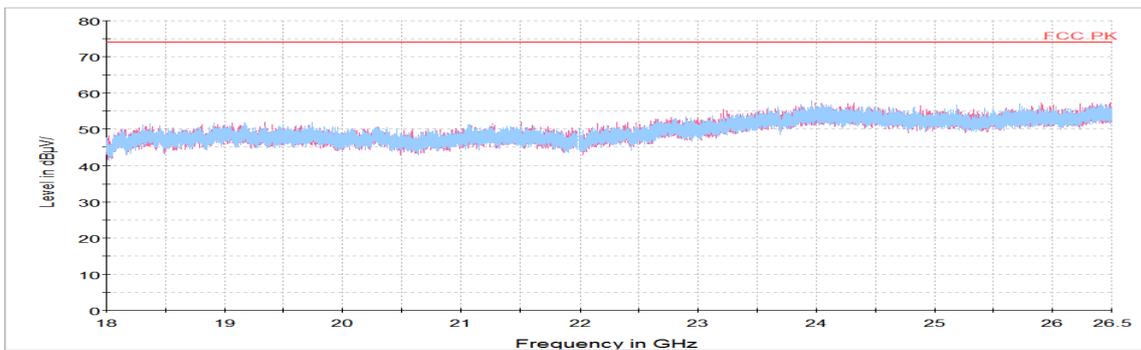
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



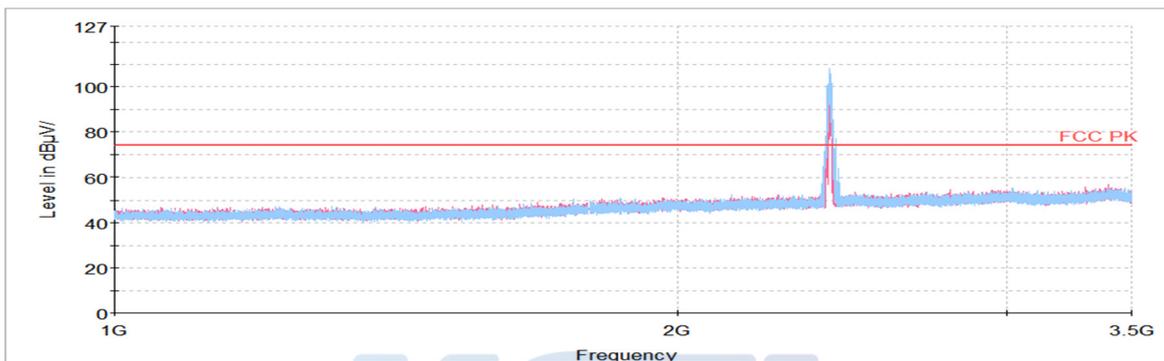
802.11ax_RU mode(HE 20 / 26T / RU offset 4) / 2 412 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
16 531.42	V	57.53	41.53	-45.61	-	53.45	74.00	20.55

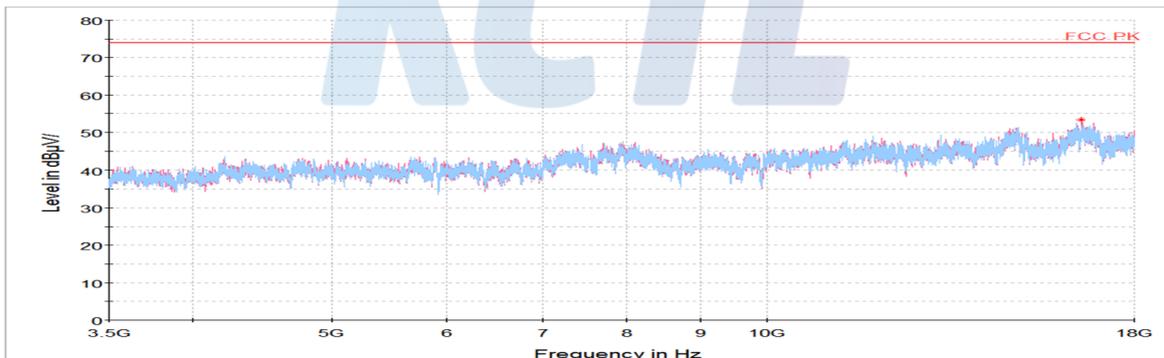
Average Data

No spurious emissions were detected within 20 dB of the limit

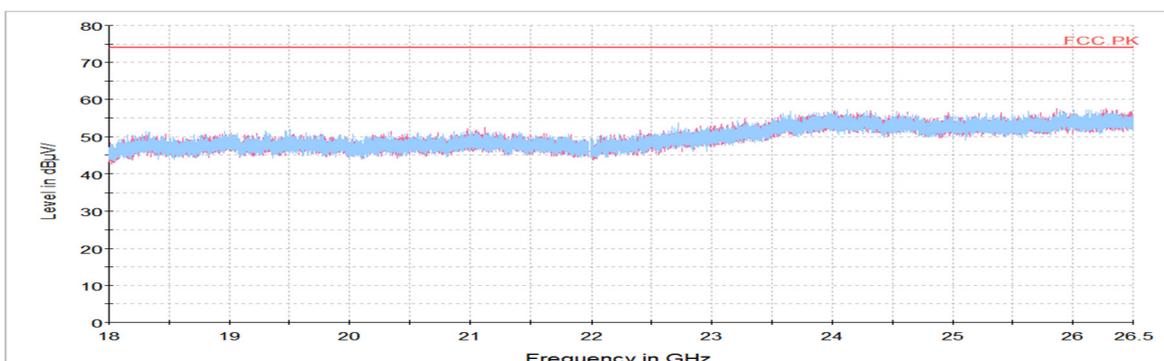
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



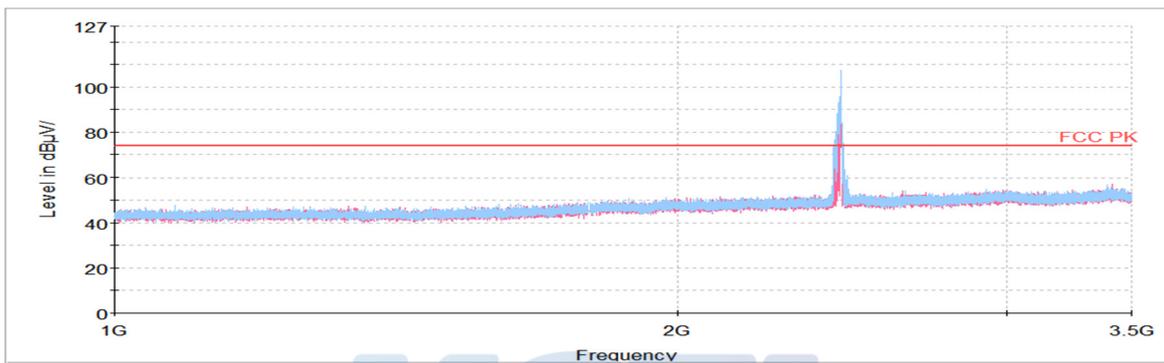
802.11ax_RU mode(HE 20 / 26T / RU offset 8) / 2 437 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
16 409.08	H	56.73	41.82	-46.06	-	52.49	74.00	21.51

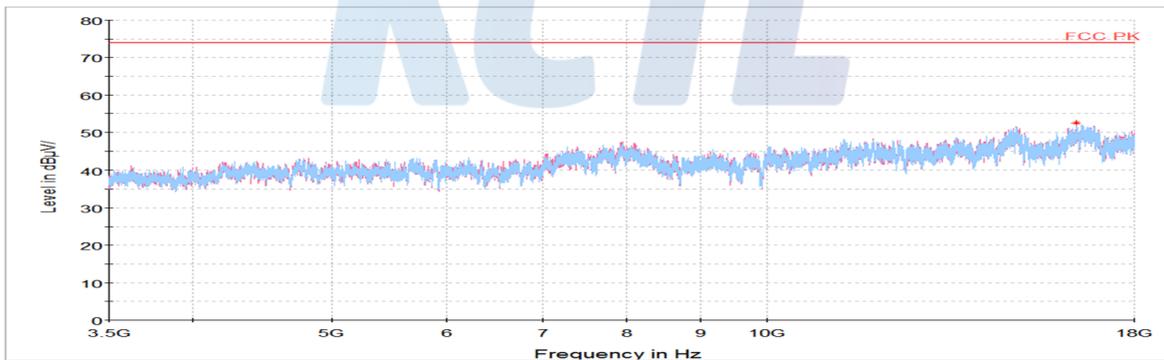
Average Data

No spurious emissions were detected within 20 dB of the limit

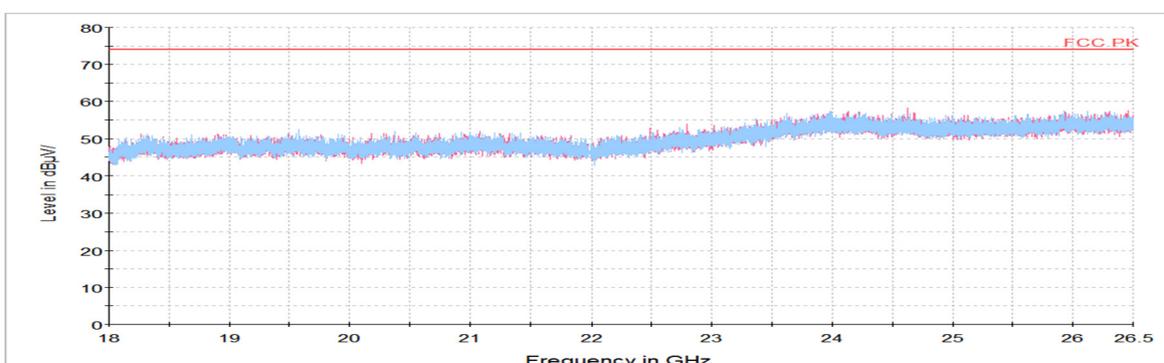
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



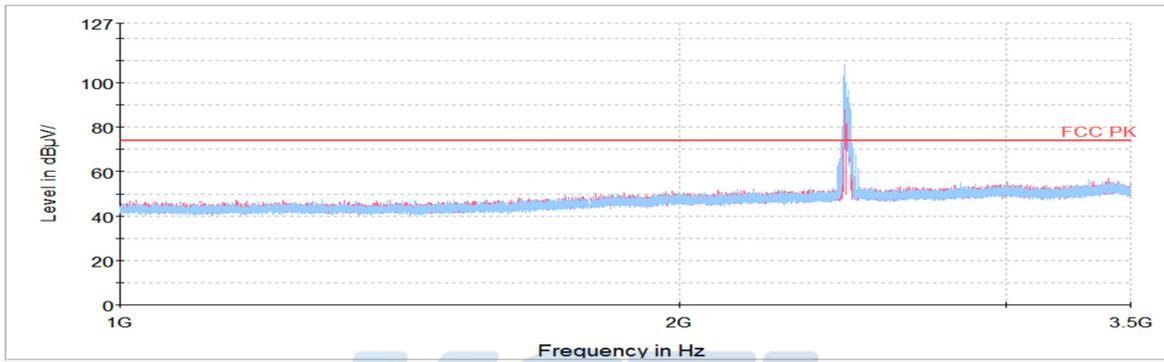
802.11ax_RU mode(HE 20 / 26T / RU offset 0) / 2 462 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
16 564.05	V	57.28	41.56	-45.72	-	53.12	74.00	20.88

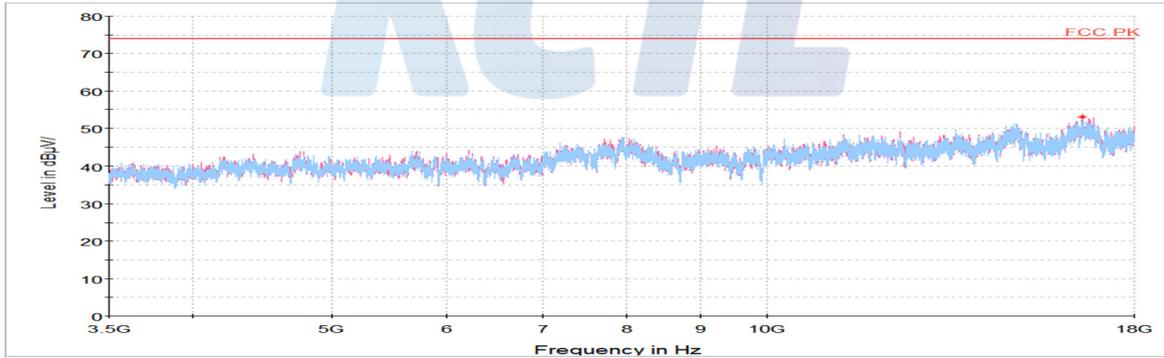
Average Data

No spurious emissions were detected within 20 dB of the limit

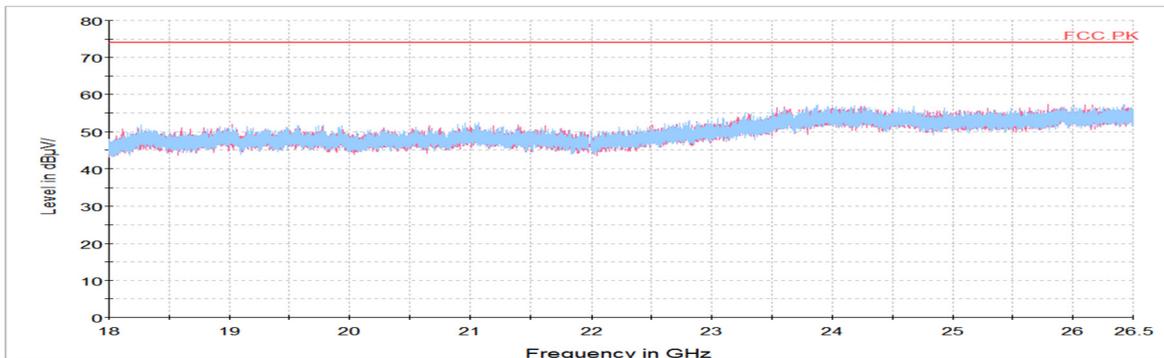
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



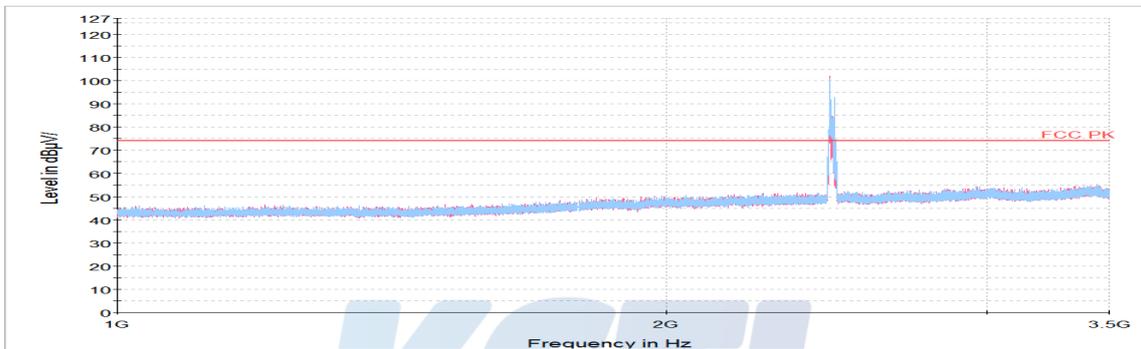
802.11ax_RU mode(HE 20 / 26T / RU offset 0) / 2 467 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
4 944.56 ¹⁾	V	60.75	33.98	-54.94	-	39.79	74.00	34.21
16 564.50	H	55.19	41.56	-45.72	-	51.03	74.00	22.97

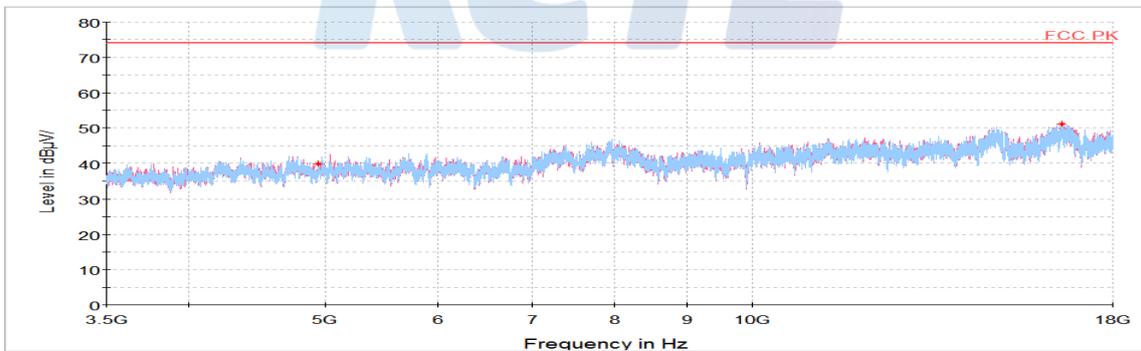
Average Data

No spurious emissions were detected within 20 dB of the limit

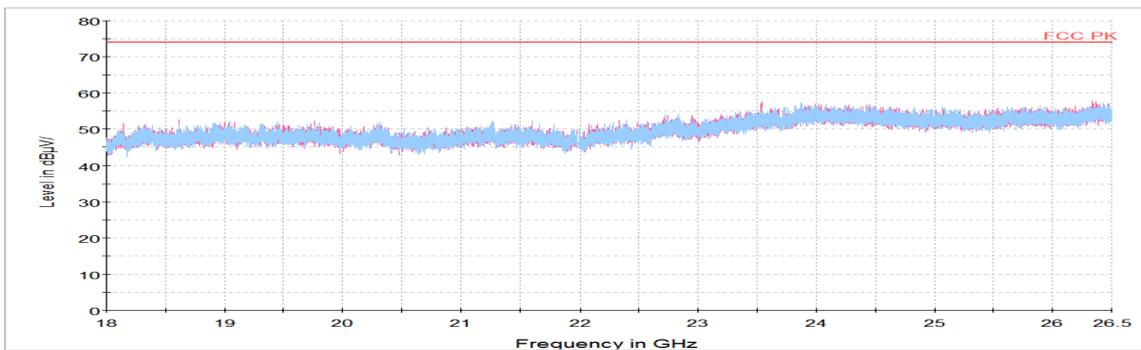
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 26.5 GHz



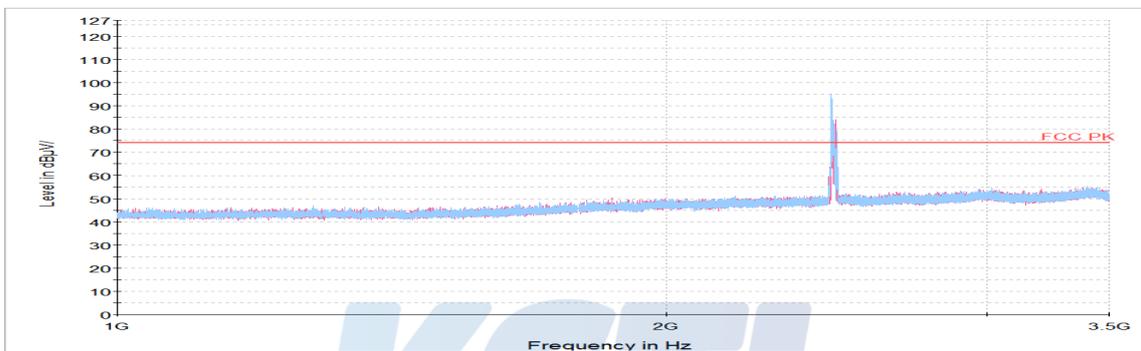
802.11ax_RU mode(HE 20 / 26T / RU offset 0) / 2 472 MHz

Frequency	Pol.	Reading	Ant. Factor	Amp. + Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
4 982.63 ¹⁾	H	61.54	33.99	-54.26	-	41.27	74.00	32.73
16 564.95	V	55.62	41.56	-45.72	-	51.46	74.00	22.54

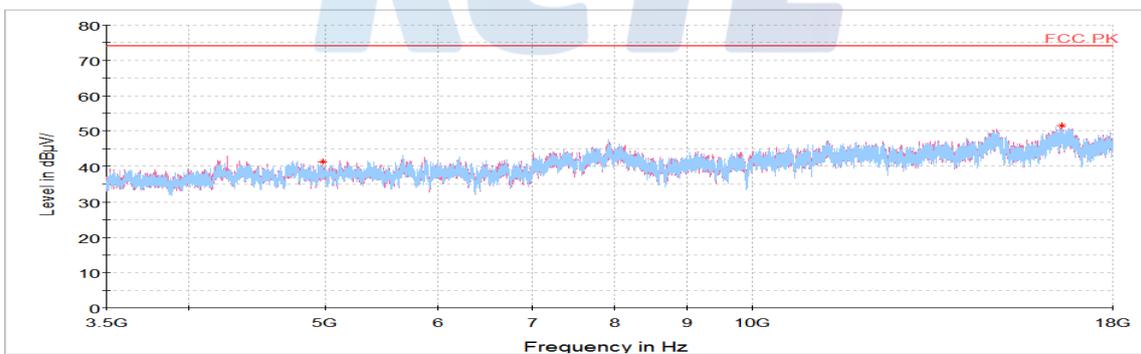
Average Data

No spurious emissions were detected within 20 dB of the limit

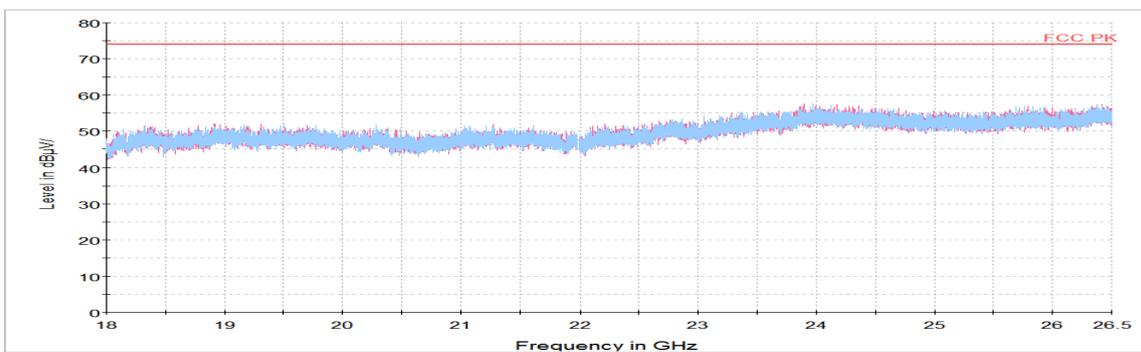
Horizontal/Vertical for 1 GHz ~ 3.5 GHz



Horizontal/Vertical for 3.5 GHz ~ 18 GHz

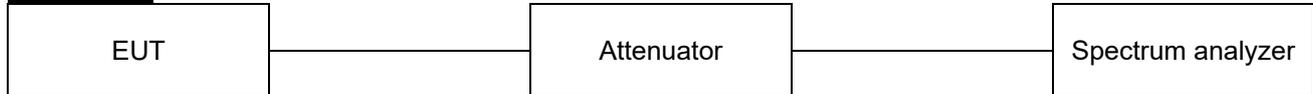


Horizontal/Vertical for 18 GHz ~ 26.5 GHz



7.5. Conducted Spurious Emission

Test setup



Limit

According to §15.247(d), In any 100 kHz bandwidth outside the frequency band in which the spread spectrum or digitally modulated intentional radiator is operation, the radio frequency power that is produced by the intentional radiator shall be at least 20 dB below that in the 100 kHz bandwidth within the band that contains the highest level of the desired power, based on either an RF conducted or a radiated measurement, provided the transmitter demonstrates compliance with the peak conducted power averaging over a time interval, as permitted under paragraph (b)(3) of this section, the attenuation specified in §15.209(a) is not required. In addition, radiated emission limits specified in §15.209(a) (see §15.205(c)).

Limit : 20 dBc

Test procedure

ANSI C63.10 - Section 11.11.3, 14.3.3

Test settings

Establish an emission level by using the following procedure:

- 1) Set the center frequency and span to encompass frequency range to be measured.
- 2) Set the RBW = 100 kHz
- 3) Set the VBW $\geq [3 \times \text{RBW}]$
- 4) Detector = peak
- 5) Sweep time = auto couple
- 6) Trace mode = max hold
- 7) Allow trace to fully stabilize.
- 8) Use the peak marker function to determine the maximum amplitude level.

Ensure that the amplitude of all unwanted emissions outside of the authorized frequency band (excluding restricted frequency bands) is attenuated by at least the minimum requirements specified in 11.11. Report the three highest emissions relative to the limit.

Notes:

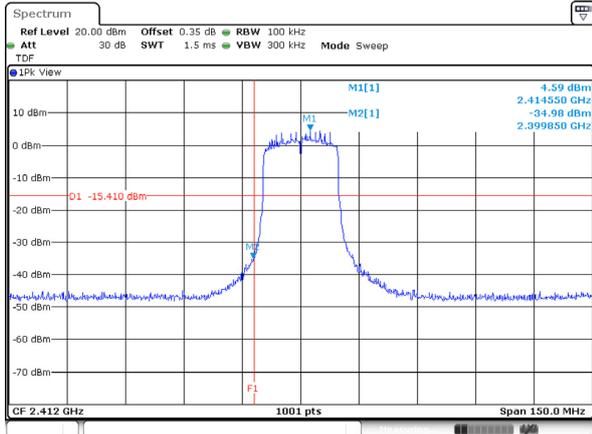
1. For the Conducted spurious, it was tested at the RU allocation with actual highest power and RU allocation with actual highest PSD for channel

Test results

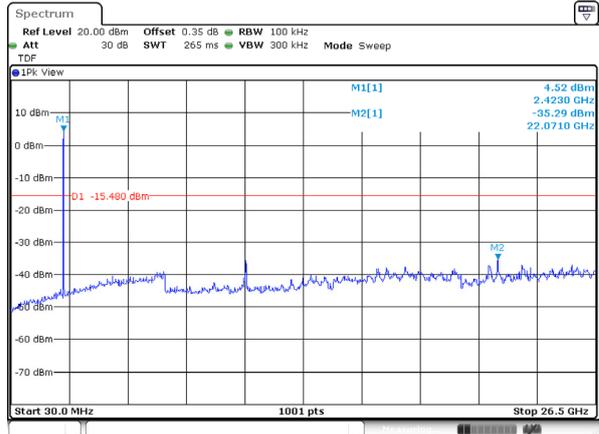
SISO

SU

Conducted band-edge / 2 412 MHz



Conducted spurious / 2 412 MHz



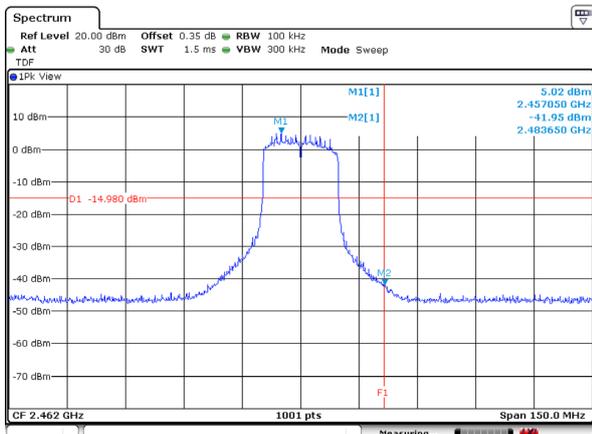
Conducted band-edge / 2 437 MHz

Blankj

Conducted spurious / 2 437 MHz



Conducted band-edge / 2 462 MHz



Conducted spurious / 2 462 MHz

