

KCTL Inc.

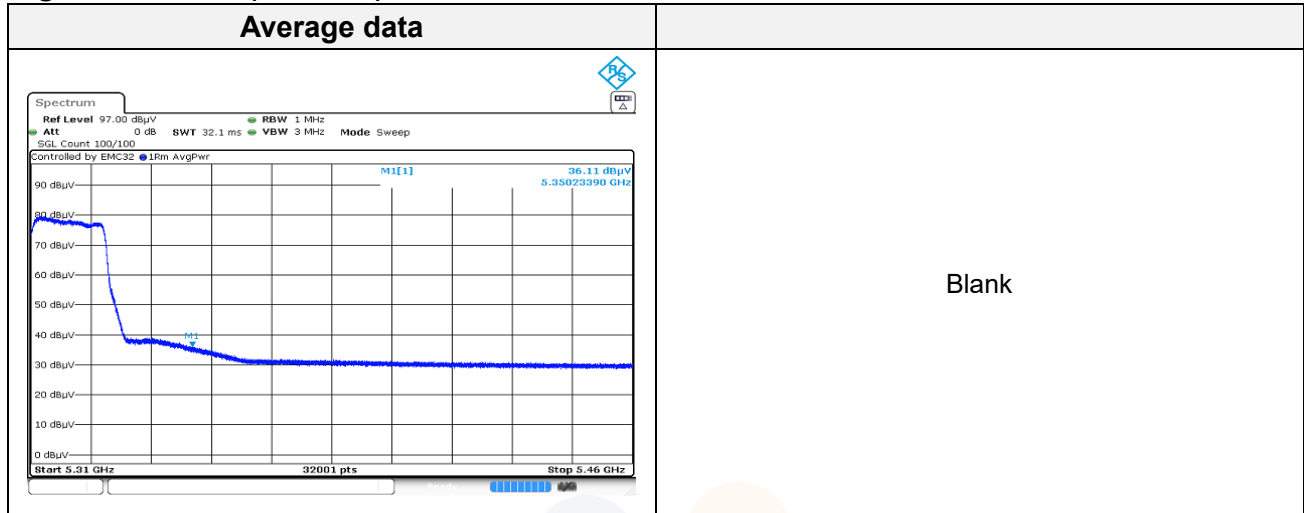
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
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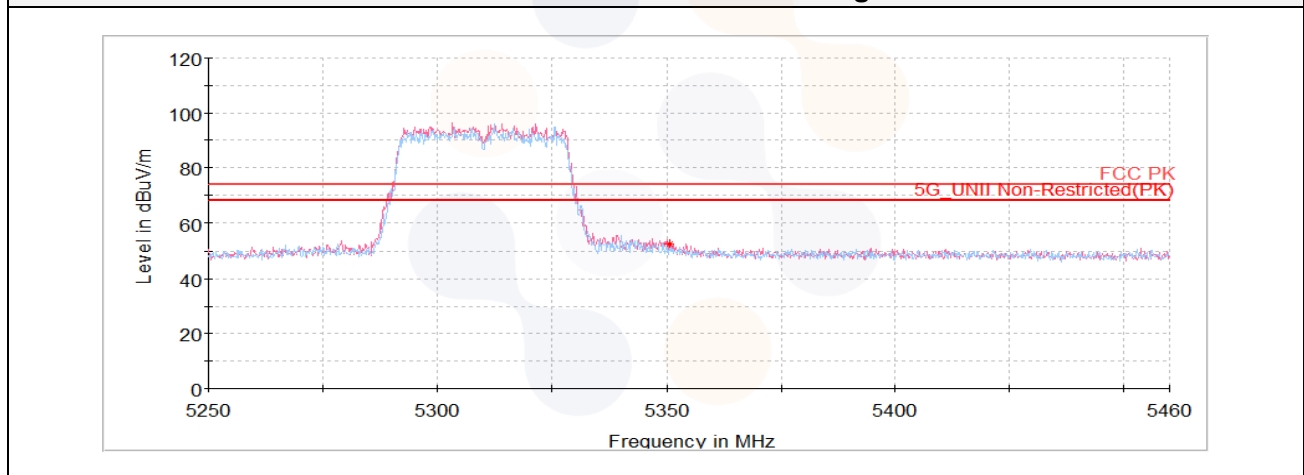


802.11n HT40 UNII-2A ANT1

Highest Channel (5 310 MHz)



Horizontal/Vertical for Band-edge



802.11n HT40 UNII-2A ANT2

Lowest Channel (5 270 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
10 552.67	H	60.65	37.34	-48.34	-	49.65	68.20	18.55
15 844.83 ¹⁾	H	53.48	40.78	-44.55	-	49.71	74.00	24.29
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

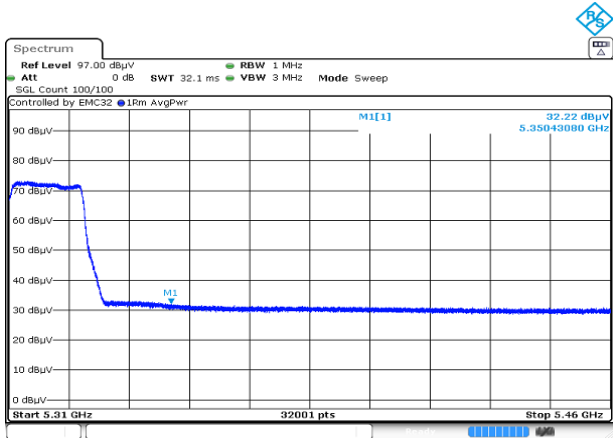
Highest Channel (5 310 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 350.43 ¹⁾	H	41.80	34.30	-24.61	-	51.49	74.00	22.51
10 656.17 ¹⁾	H	56.65	37.42	-48.29	-	45.78	74.00	28.22
15 907.00 ¹⁾	V	52.78	40.83	-44.61	-	49.00	74.00	25.00
Average Data								
5 350.43 ¹⁾	H	32.22	34.30	-24.61	0.23	42.14	54.00	11.86

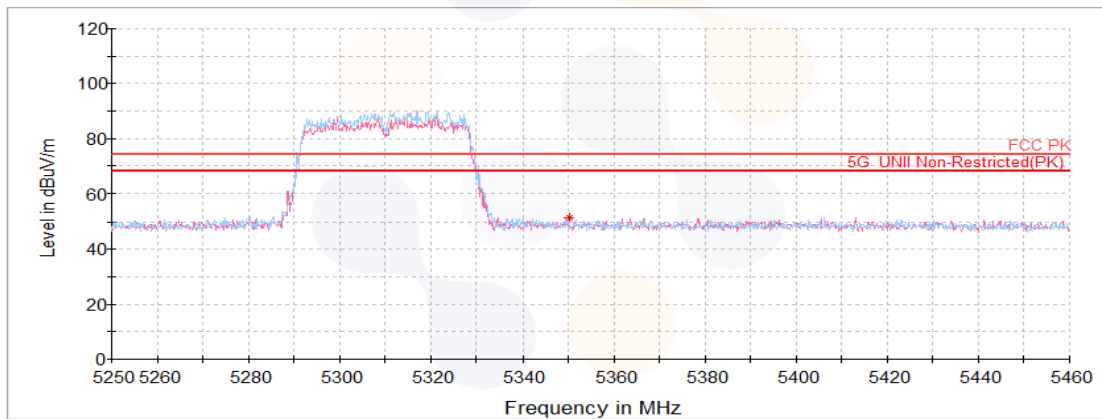
802.11n HT40 UNII-2A ANT2

Highest Channel (5 310 MHz)

Average data



Horizontal/Vertical for Band-edge



802.11n HT40 UNII-2A 2TX MIMO

Lowest Channel (5 270 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ N/m))	(dB(μ N/m))	(dB)
Peak data								
10 536.86	H	59.46	37.33	-48.35	-	48.44	68.20	19.76
15 786.61 ¹⁾	V	52.63	40.73	-44.49	-	48.87	74.00	25.13
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

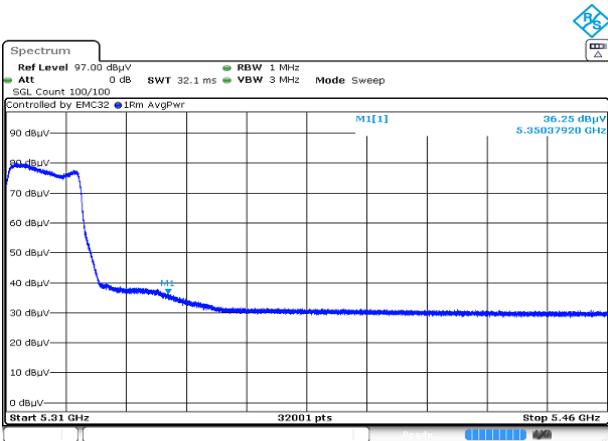
Highest Channel (5 310 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ N/m))	(dB(μ N/m))	(dB)
Peak data								
5 350.38 ¹⁾	V	45.24	34.30	-24.61	-	54.93	74.00	19.07
10 621.31 ¹⁾	V	57.05	37.40	-48.31	-	46.14	74.00	27.86
15 934.31 ¹⁾	H	53.84	40.85	-44.64	-	50.05	74.00	23.95
Average Data								
5 350.38 ¹⁾	V	36.25	34.30	-24.61	0.42	46.36	54.00	7.64

802.11n HT40 UNII-2A 2TX MIMO

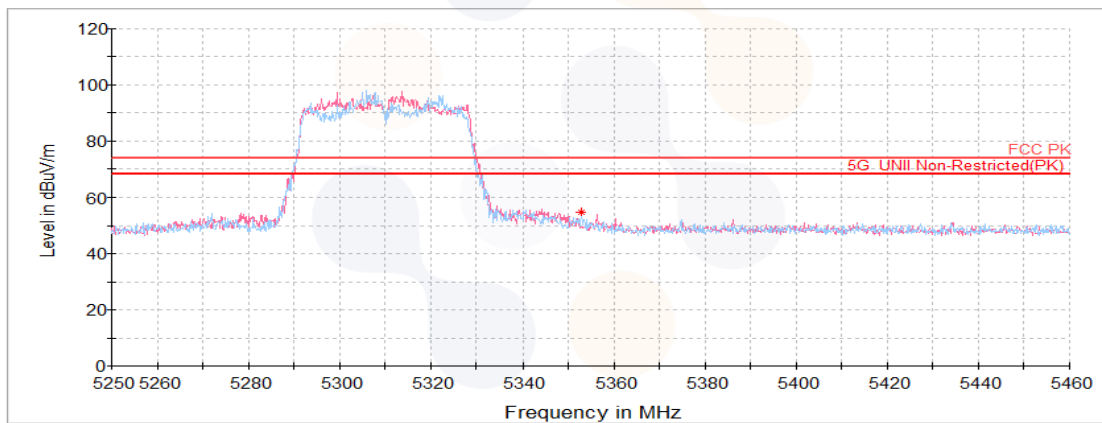
Highest Channel (5 310 MHz)

Average data



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Horizontal/Vertical for Band-edge



802.11ac VHT20 UNII-2A ANT1

Lowest Channel (5 260 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
10 537.22	V	56.71	37.33	-48.35	-	45.69	68.20	22.51
15 677.36 ¹⁾	H	53.46	40.64	-44.38	-	49.72	74.00	24.28
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Middle Channel (5 280 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
10 565.61	V	57.62	37.35	-48.34	-	46.63	68.20	21.57
15 884.36 ¹⁾	H	52.81	40.81	-44.59	-	49.03	74.00	24.97
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 320 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 350.03 ¹⁾	V	44.41	34.30	-24.61	-	54.10	74.00	19.90
10 638.56 ¹⁾	V	59.23	37.41	-48.30	-	48.34	74.00	25.66
16 024.52 ¹⁾	H	52.01	41.86	-44.70	-	49.17	74.00	24.83
Average Data								
5 350.03 ¹⁾	V	37.22	34.30	-24.61	0.12	47.03	54.00	6.97

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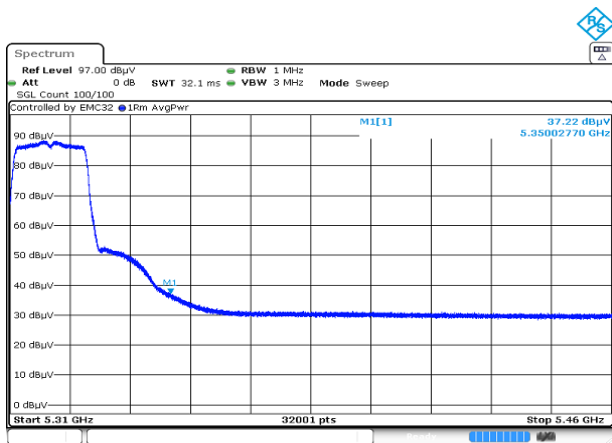
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802.11ac VHT20 UNII-2A ANT1

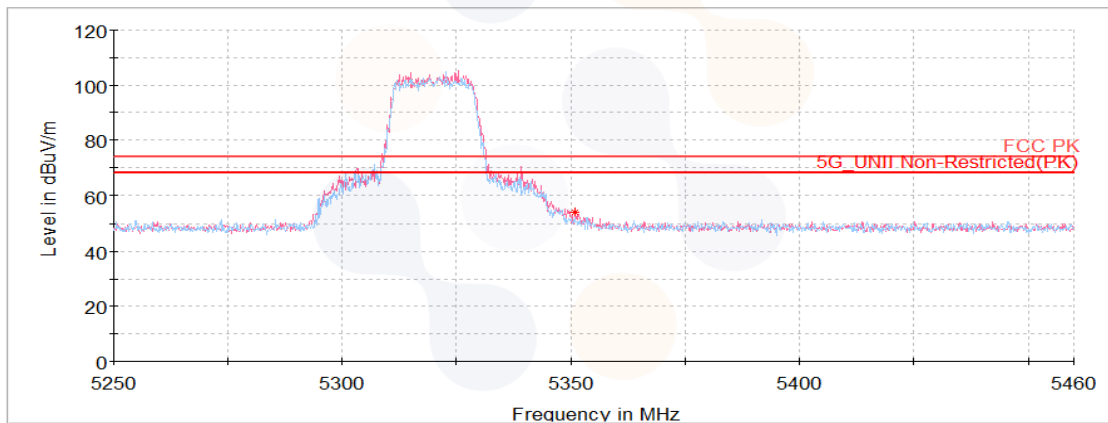
Highest Channel (5 320 MHz)

Average data



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Horizontal/Vertical for Band-edge



802.11ac VHT20 UNII-2A ANT2

Lowest Channel (5 260 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								
10 521.41	H	64.59	37.32	-48.36	-	53.55	68.20	14.65
15 789.48 ¹⁾	H	53.27	40.73	-44.49	-	49.51	74.00	24.49
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Middle Channel (5 280 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								
10 561.66	H	65.20	37.35	-48.34	-	54.21	68.20	13.99
15 844.47 ¹⁾	H	52.91	40.78	-44.55	-	49.14	74.00	24.86
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

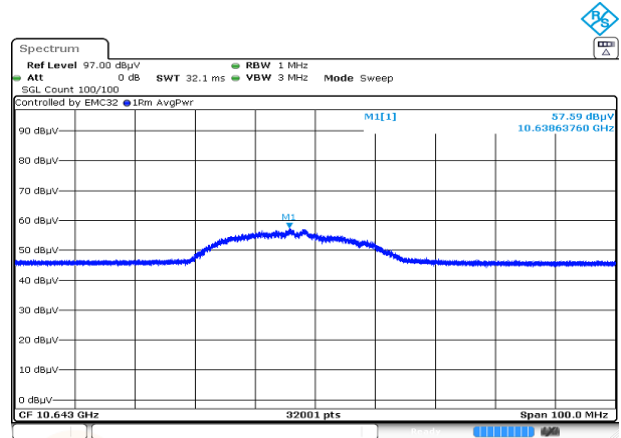
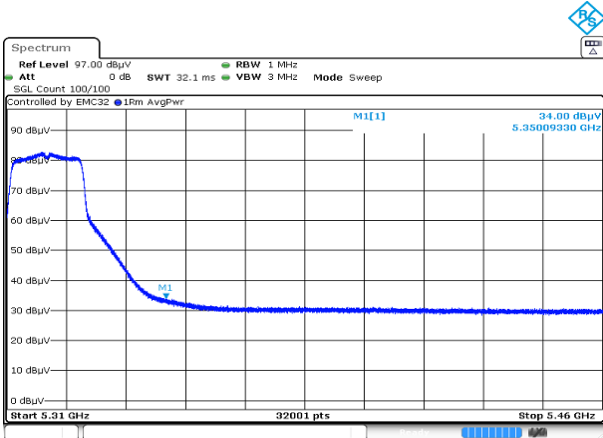
Highest Channel (5 320 MHz)

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								
5 350.09 ¹⁾	H	42.88	34.30	-24.61	-	52.57	74.00	21.43
10 638.64 ¹⁾	H	66.14	37.41	-48.30	-	55.25	74.00	18.75
15 951.92 ¹⁾	V	53.29	40.86	-44.65	-	49.50	74.00	24.50
Average Data								
5 350.09 ¹⁾	H	34.00	34.30	-24.61	0.12	43.81	54.00	10.19
10 638.64 ¹⁾	H	57.59	37.41	-48.30	0.12	46.82	54.00	7.18

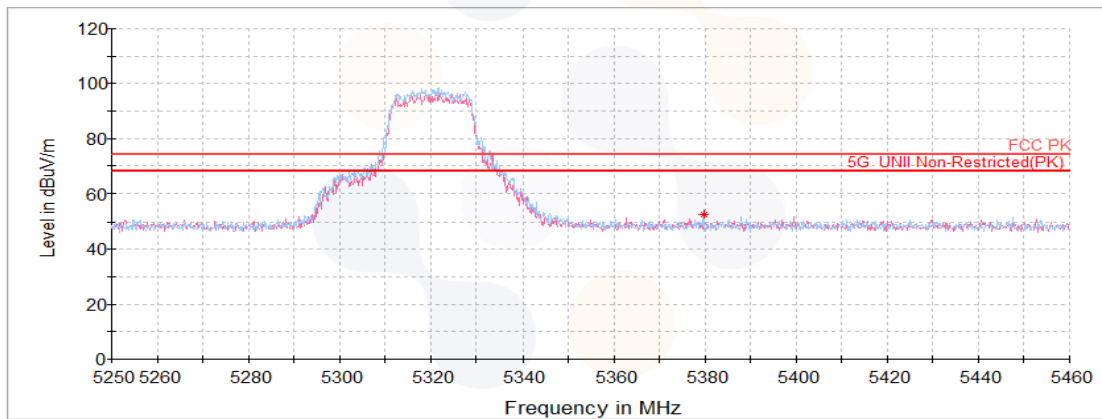
802.11ac VHT20 UNII-2A ANT2

Highest Channel (5 320 MHz)

Average data



Horizontal/Vertical for Band-edge



802.11ac VHT20 UNII-2A 2TX MIMO

Lowest Channel (5 260 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								
10 527.88	V	63.29	37.32	-48.36	-	52.25	68.20	15.95
15 810.33 ¹⁾	H	53.04	40.75	-44.51	-	49.28	74.00	24.72
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Middle Channel (5 280 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								
10 566.69	V	63.95	37.35	-48.34	-	52.96	68.20	15.24
15 880.77 ¹⁾	H	52.74	40.80	-44.58	-	48.96	74.00	25.04
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 320 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								
5 350.01 ¹⁾	V	45.83	34.30	-24.61	-	55.52	74.00	18.48
10 641.09 ¹⁾	H	63.59	37.41	-48.30	-	52.70	74.00	21.30
15 916.34 ¹⁾	V	53.43	40.83	-44.62	-	49.64	74.00	24.36
Average Data								
5 350.01 ¹⁾	V	37.68	34.30	-24.61	0.22	47.59	54.00	6.41
10 641.09 ¹⁾	H	54.55	37.41	-48.30	0.22	43.88	54.00	10.12

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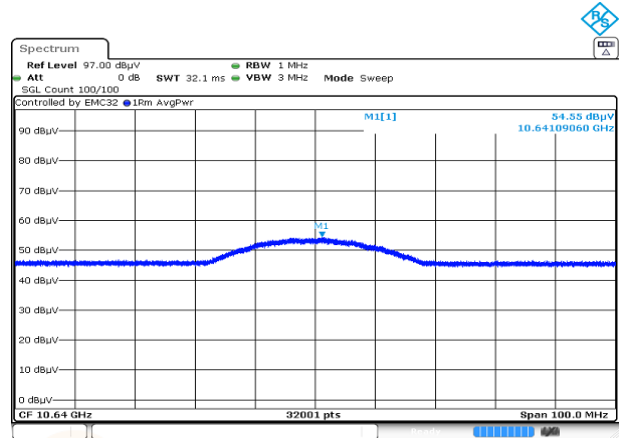
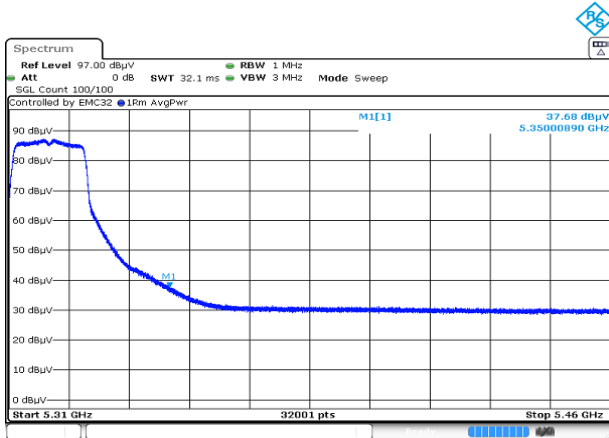
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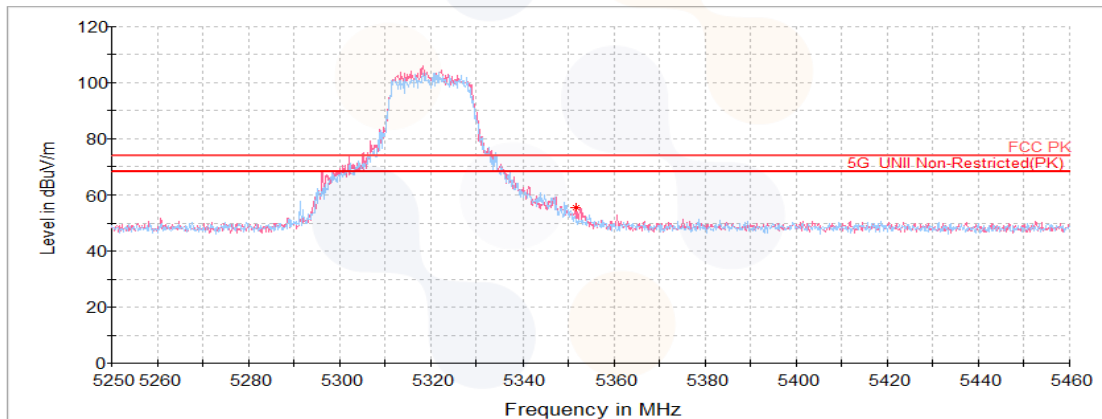
802.11ac VHT20 UNII-2A 2TX MIMO

Highest Channel (5 320 MHz)

Average data



Horizontal/Vertical for Band-edge



802.11ac VHT40 UNII-2A ANT1

Lowest Channel (5 270 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
10 448.09	V	56.96	37.27	-48.34	-	45.89	68.20	22.31
15 904.48 ¹⁾	V	53.23	40.82	-44.61	-	49.44	74.00	24.56
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 310 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 350.59 ¹⁾	V	44.19	34.30	-24.61	-	53.88	74.00	20.12
10 687.80 ¹⁾	H	57.23	37.45	-48.27	-	46.41	74.00	27.59
16 037.81 ¹⁾	V	52.42	41.90	-44.69	-	49.63	74.00	24.37
Average Data								
5 350.59 ¹⁾	V	35.94	34.30	-24.61	0.24	45.87	54.00	8.13

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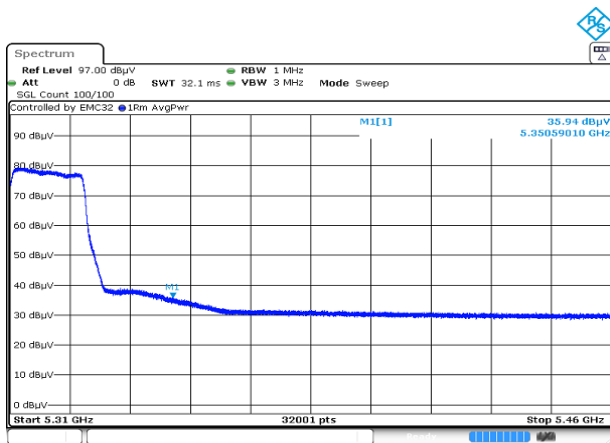
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802.11ac VHT40 UNII-2A ANT1

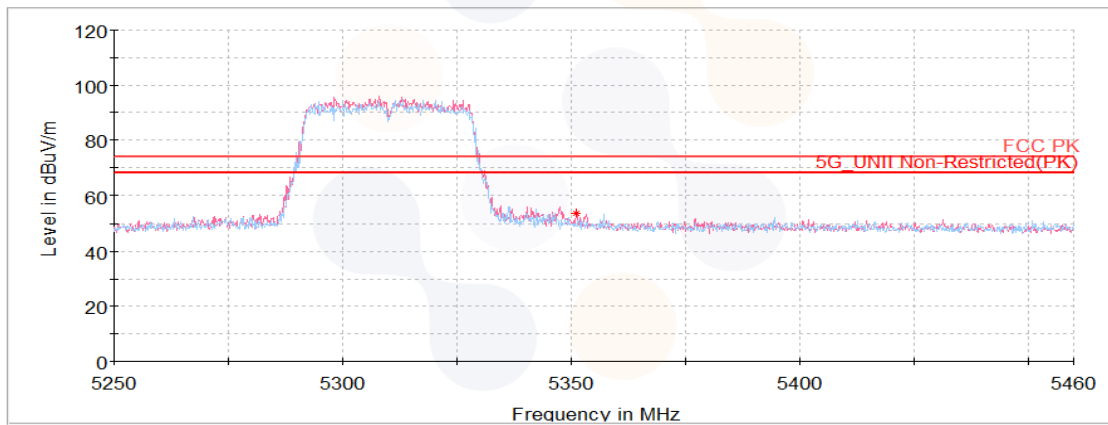
Highest Channel (5 310 MHz)

Average data



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Horizontal/Vertical for Band-edge



802.11ac VHT40 UNII-2A ANT2

Lowest Channel (5 270 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
10 539.73	H	61.41	37.33	-48.35	-	50.39	68.20	17.81
15 754.27 ¹⁾	V	52.37	40.70	-44.46	-	48.61	74.00	25.39
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 310 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 350.32 ¹⁾	H	42.35	34.30	-24.61	-	52.04	74.00	21.96
10 627.78 ¹⁾	H	57.14	37.40	-48.30	-	46.24	74.00	27.76
15 933.95 ¹⁾	H	53.15	40.85	-44.64	-	49.36	74.00	24.64
Average Data								
5 350.32 ¹⁾	H	31.95	34.30	-24.61	0.24	41.88	54.00	12.12

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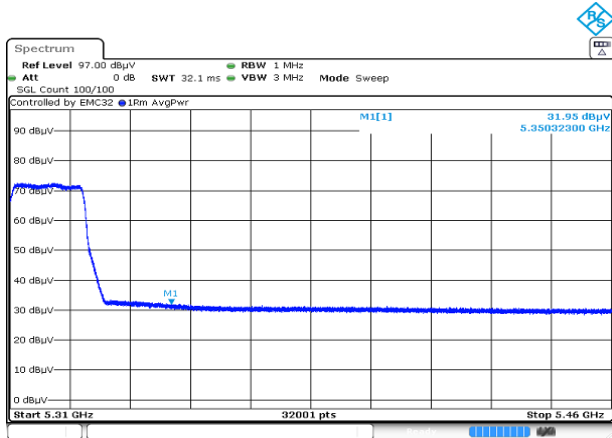
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802.11ac VHT40 UNII-2A ANT2

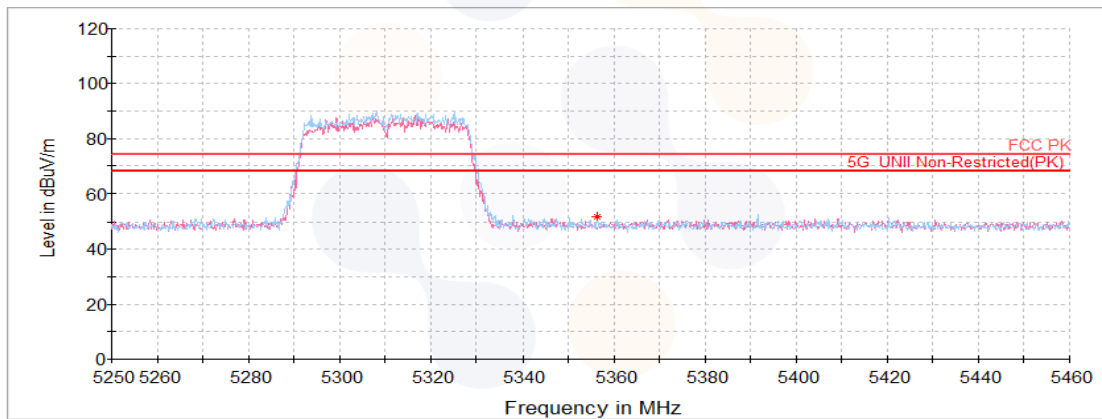
Highest Channel (5 310 MHz)

Average data



Blank

Horizontal/Vertical for Band-edge



802.11ac VHT40 UNII-2A 2TX MIMO

Lowest Channel (5 270 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
10 536.50	V	59.36	37.33	-48.35	-	48.34	68.20	19.86
15 748.52 ¹⁾	V	53.40	40.70	-44.45	-	49.65	74.00	24.35
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 310 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 350.35 ¹⁾	V	47.03	34.30	-24.61	-	56.72	74.00	17.28
10 710.44 ¹⁾	H	57.68	37.47	-48.26	-	46.89	74.00	27.11
15 903.77 ¹⁾	V	53.03	40.82	-44.61	-	49.24	74.00	24.76
Average Data								
5 350.35 ¹⁾	V	36.23	34.30	-24.61	0.41	46.33	54.00	7.67

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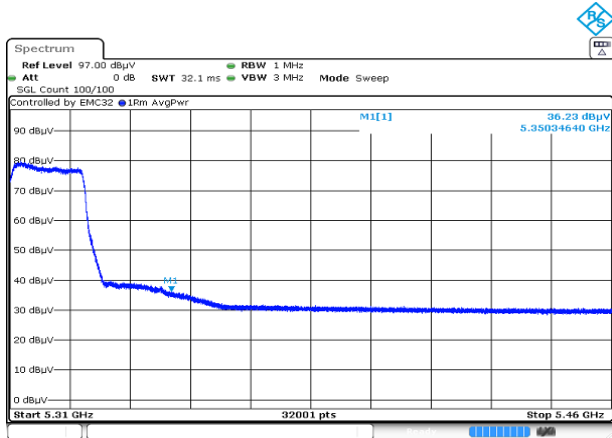
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802.11ac VHT40 UNII-2A 2TX MIMO

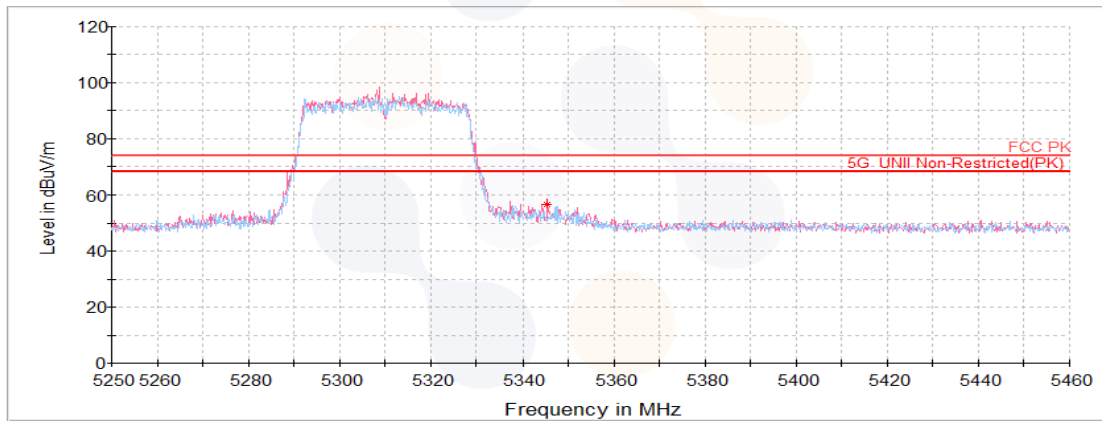
Highest Channel (5 310 MHz)

Average data



Blank

Horizontal/Vertical for Band-edge



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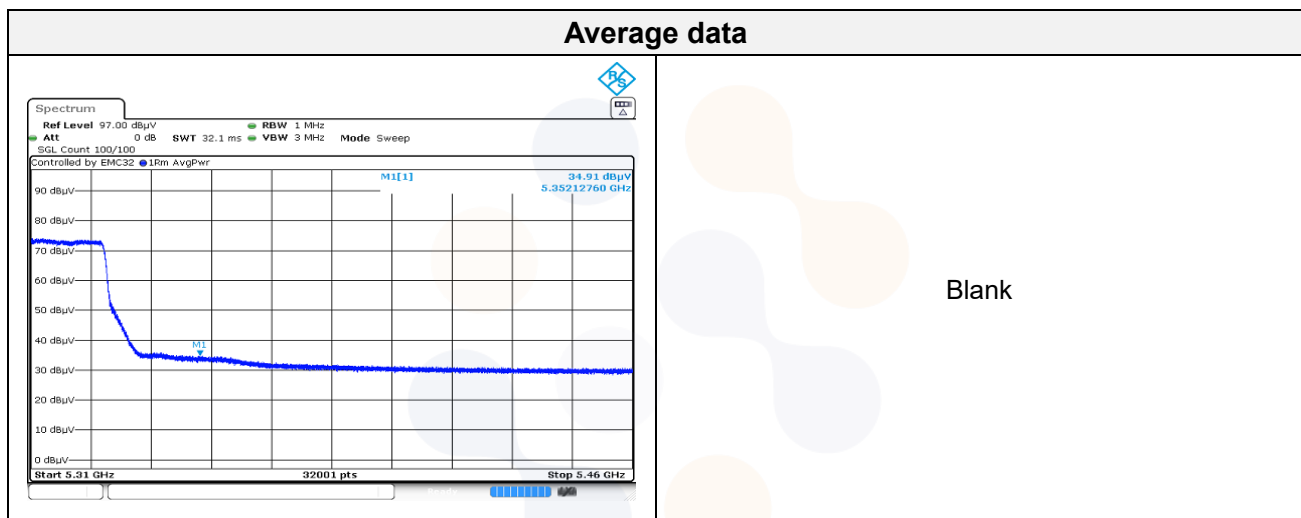


802.11ac VHT80 UNII-2A ANT1

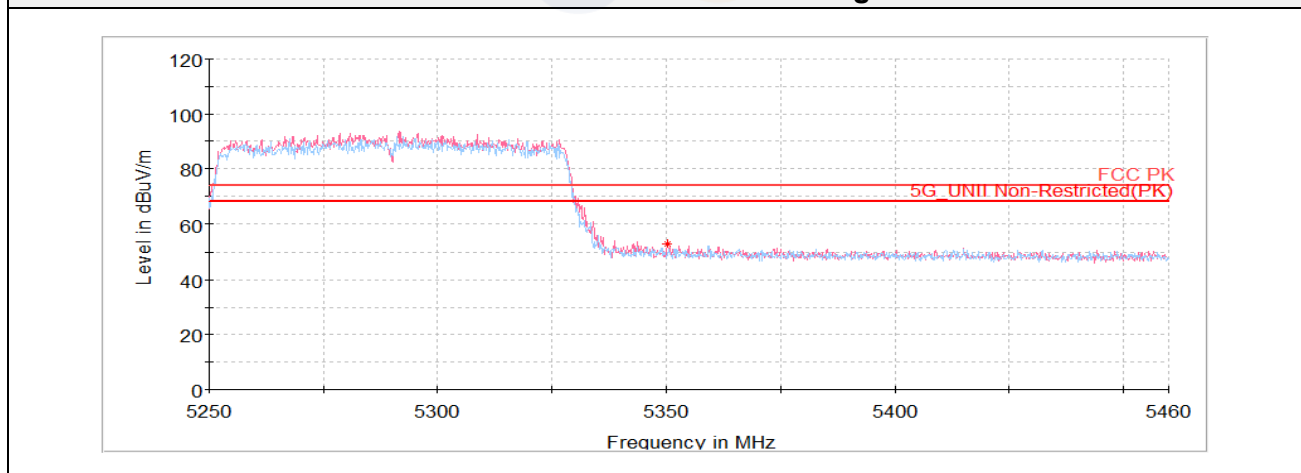
Lowest Channel (5 290 MHz)

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								
5 352.13	V	43.17	34.30	-24.60	-	52.87	74.00	21.13
10 601.91	V	57.37	37.38	-48.32	-	46.43	74.00	27.57
15 710.42	H	54.59	40.67	-44.42	-	50.84	74.00	23.16
Average Data								
5 352.13	V	34.91	34.30	-24.60	0.45	45.06	54.00	8.94

Average data



Horizontal/Vertical for Band-edge



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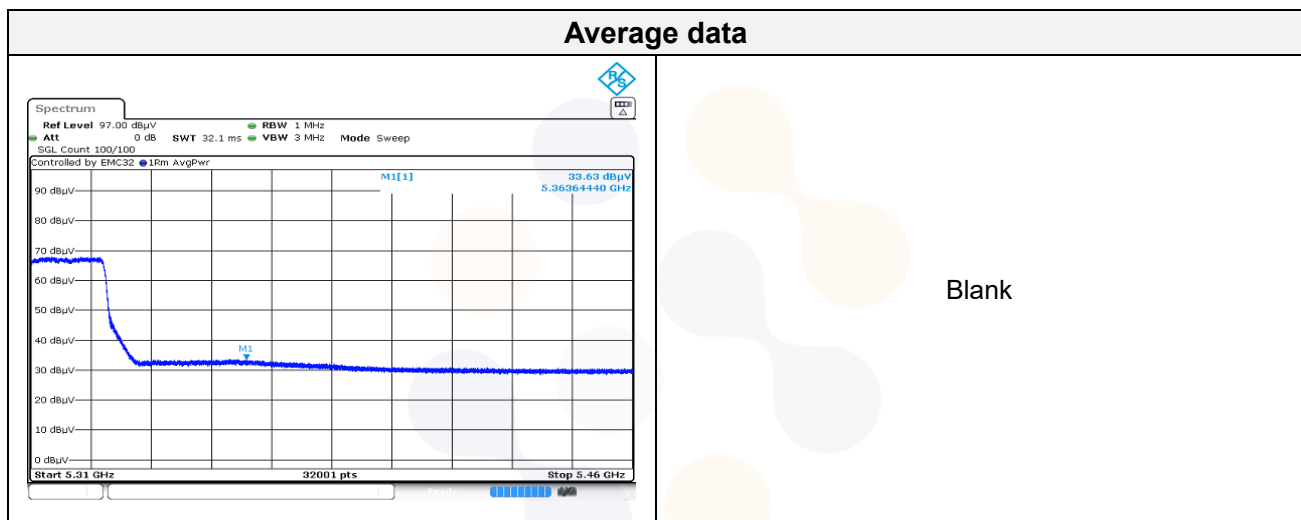
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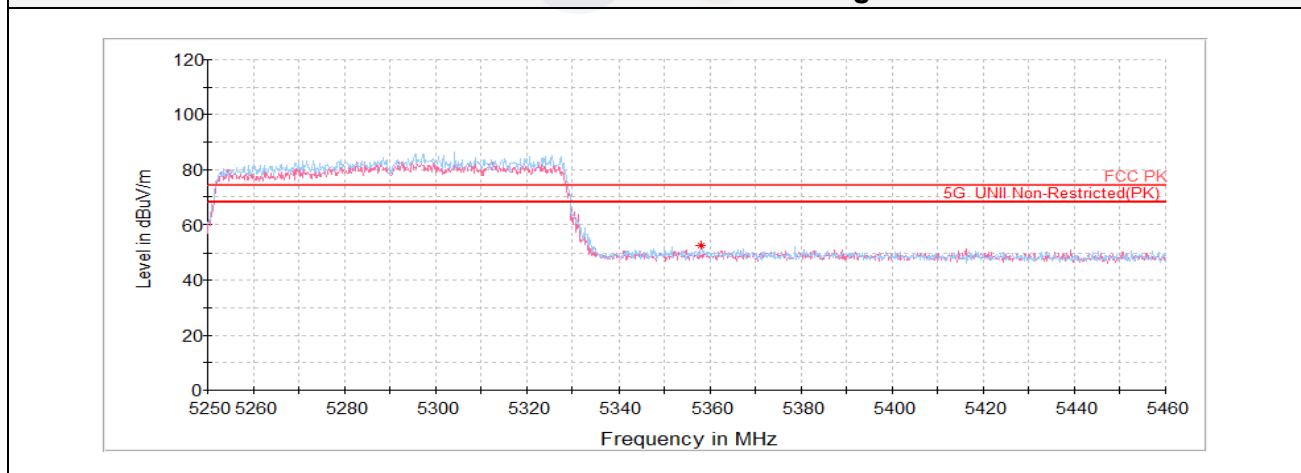
802.11ac VHT80 UNII-2A ANT2

Lowest Channel (5 290 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								
5 363.64 ¹⁾	H	42.93	34.33	-24.56	-	52.70	74.00	21.30
10 591.84	H	57.61	37.37	-48.32	-	46.66	68.20	21.54
15 863.52 ¹⁾	H	53.01	40.79	-44.57	-	49.23	74.00	24.77
Average Data								
5 363.64 ¹⁾	H	33.63	34.33	-24.56	0.45	43.85	54.00	10.15



Horizontal/Vertical for Band-edge



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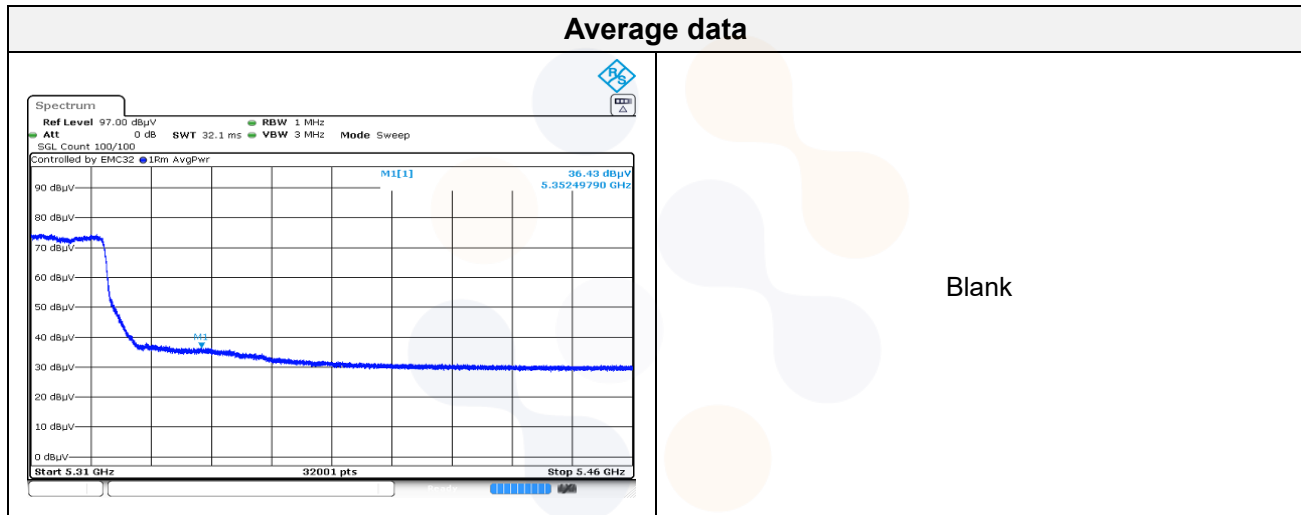


802.11ac VHT80 UNII-2A 2TX MIMO

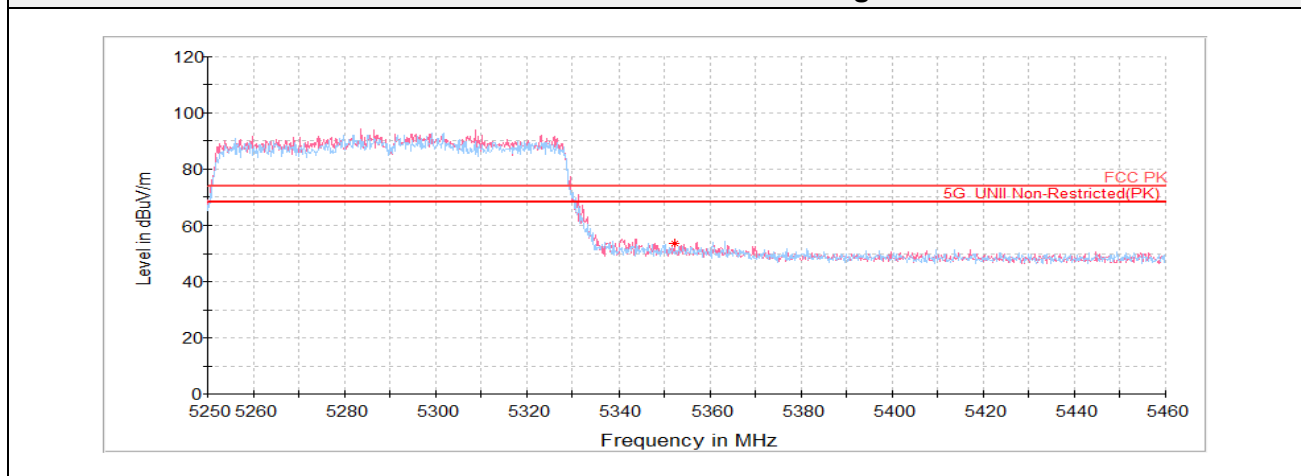
Lowest Channel (5 290 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
4 499.55	H	68.24	33.70	-42.93	-	59.01	68.20	9.19
5 352.50 ¹⁾	H	44.14	34.30	-24.60	-	53.84	74.00	20.16
10 650.06 ¹⁾	V	57.55	37.42	-48.29	-	46.68	74.00	27.32
15 831.53 ¹⁾	H	52.95	40.77	-44.54	-	49.18	74.00	24.82
Average Data								
5 352.50 ¹⁾	H	36.43	34.30	-24.60	0.75	46.88	54.00	7.12

Average data



Horizontal/Vertical for Band-edge

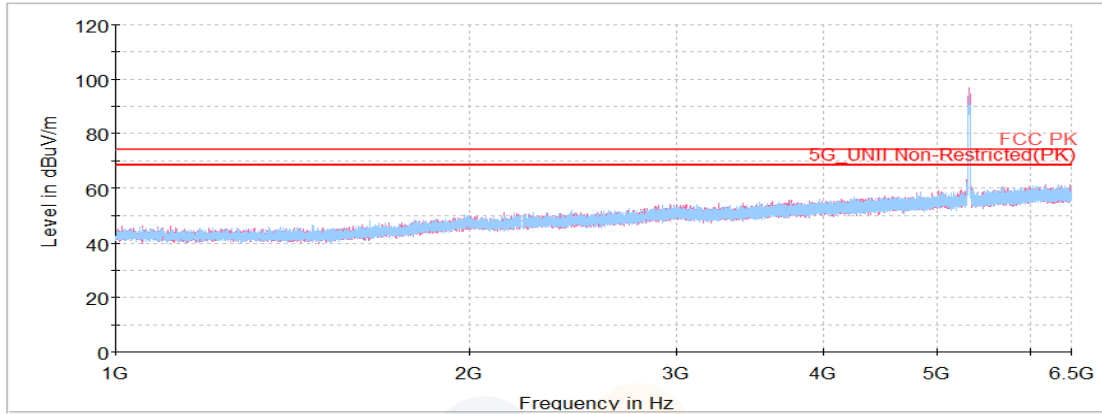


Plot of Harmonics and Spurious Emissions

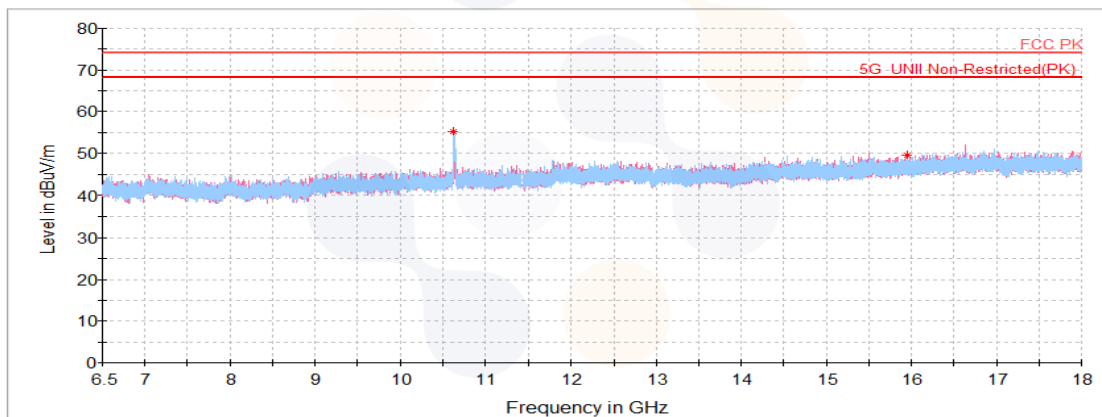
In order to simplify the report, attached plots were only the lowest margin condition

802.11ac VHT20 UNII-2A_ANT2_ Highest Channel (5 320 MHz)

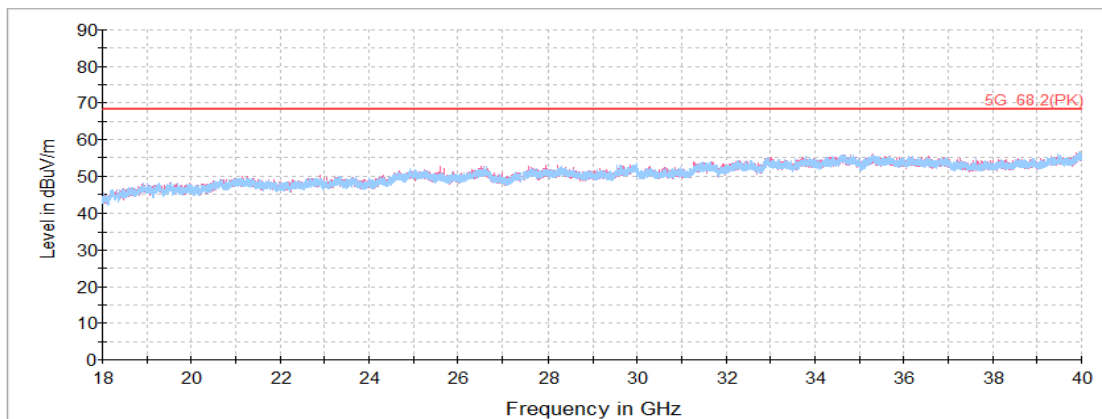
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



802.11a UNII-2C ANT1

Lowest Channel (5 500 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								
5 459.64 ¹⁾	H	40.48	34.52	-24.41	-	50.59	74.00	23.41
10 997.22 ¹⁾	H	57.13	37.70	-48.10	-	46.73	74.00	27.27
16 607.06	V	52.06	42.77	-44.60	-	50.23	68.20	17.97
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Middle Channel (5 600 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								
11 152.11 ¹⁾	H	56.98	37.82	-48.08	-	46.72	74.00	27.28
16 817.30	V	52.20	43.11	-44.61	-	50.70	68.20	17.50
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

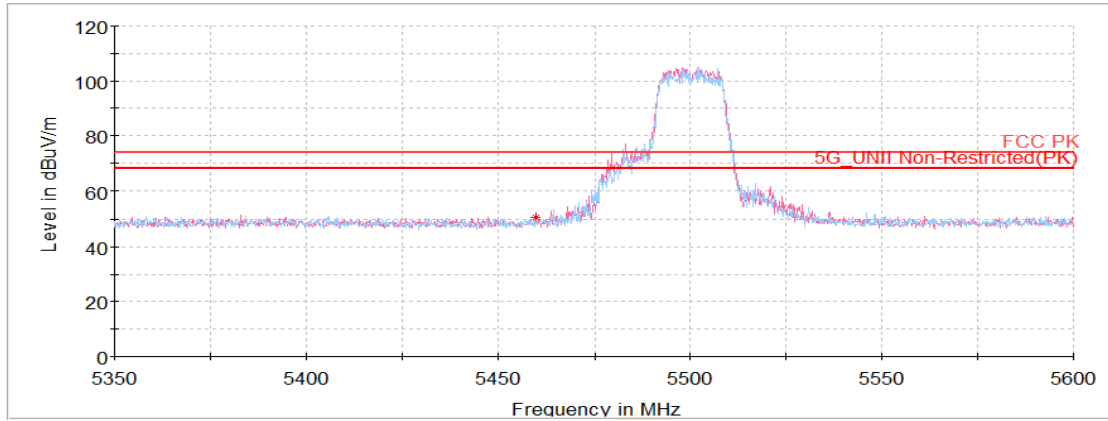
Highest Channel (5 700 MHz)

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								
5 730.00	V	46.88	34.88	-24.10	-	57.66	68.20	10.54
11 351.20 ¹⁾	V	57.51	37.98	-48.05	-	47.44	74.00	26.56
17 044.06	V	53.43	41.62	-44.62	-	50.43	68.20	17.77
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11a UNII-2C ANT1

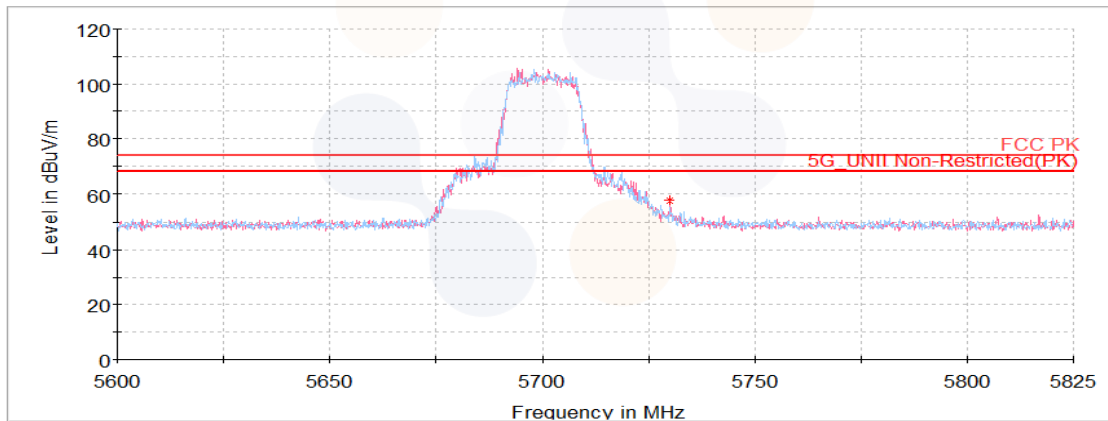
Lowest Channel (5 500 MHz)

Horizontal/Vertical for Band-edge



Highest Channel (5 700 MHz)

Horizontal/Vertical for Band-edge



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**802.11a UNII-2C ANT2****Lowest Channel (5 500 MHz)**

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ N/m))	(dB(μ N/m))	(dB)
Peak data								
5 452.08 ¹⁾	H	40.31	34.50	-24.41	-	50.40	74.00	23.60
11 000.68 ¹⁾	H	65.56	37.70	-48.10	-	55.16	74.00	18.84
16 494.22	V	51.88	43.08	-44.59	-	50.37	68.20	17.83
Average Data								
11 000.68 ¹⁾	H	55.61	37.70	-48.10	0.11	45.32	54.00	8.68

Middle Channel (5 600 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ N/m))	(dB(μ N/m))	(dB)
Peak data								
11 201.82 ¹⁾	H	67.69	37.86	-48.07	-	57.48	74.00	16.52
16 851.44	H	52.60	43.16	-44.61	-	51.15	68.20	17.05
Average Data								
11 201.82 ¹⁾	H	59.05	37.86	-48.07	0.11	48.95	54.00	5.05

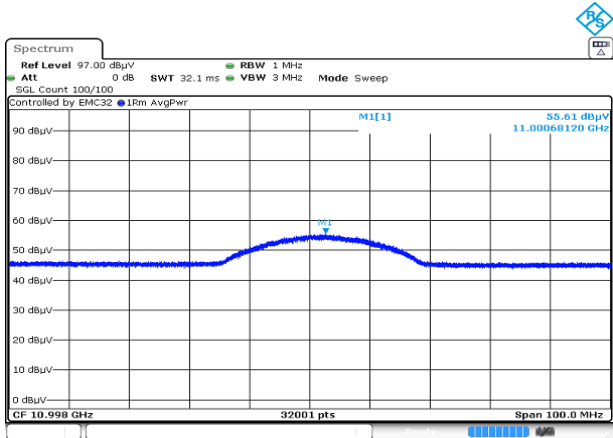
Highest Channel (5 700 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ N/m))	(dB(μ N/m))	(dB)
Peak data								
5 726.39	H	44.26	34.87	-24.10	-	55.03	68.20	13.17
11 398.74 ¹⁾	V	65.94	38.02	-48.04	-	55.92	74.00	18.08
17 030.41	V	53.15	41.65	-44.62	-	50.18	68.20	18.02
Average Data								
11 398.74 ¹⁾	V	60.23	38.02	-48.04	0.11	50.32	54.00	3.68

802.11a UNII-2C ANT2

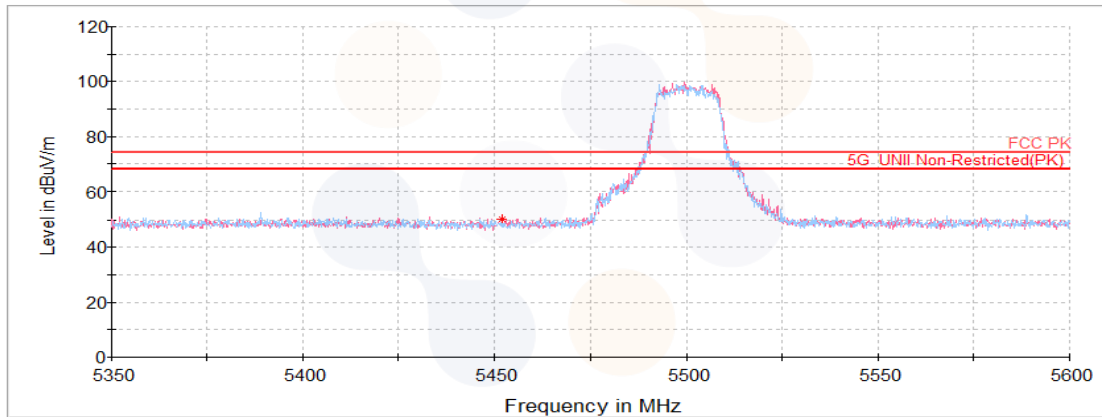
Lowest Channel (5 500 MHz)

Average data



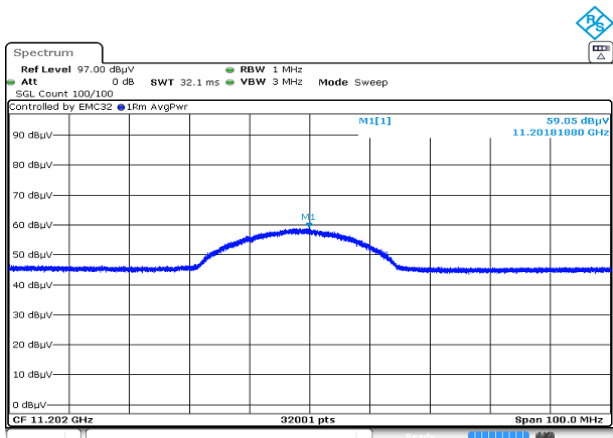
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Horizontal/Vertical for Band-edge



Middle Channel (5 600 MHz)

Average data



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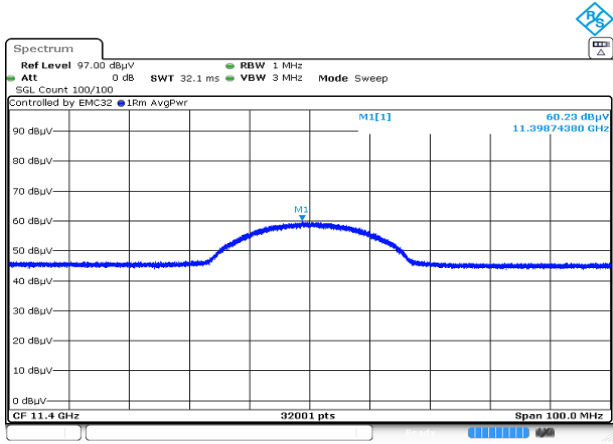
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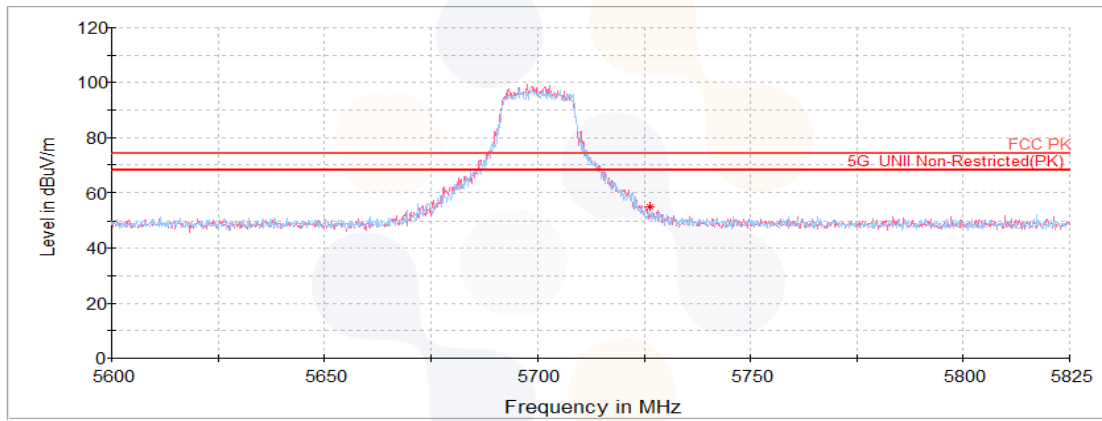
Highest Channel (5 700 MHz)

Average data



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Horizontal/Vertical for Band-edge



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**802.11a UNII-2C 2TX MIMO****Lowest Channel (5 500 MHz)**

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 457.37 ¹⁾	V	42.24	34.51	-24.41	-	52.34	74.00	21.66
11 001.14 ¹⁾	H	63.72	37.70	-48.10	-	53.32	74.00	20.68
16 497.45	V	51.52	43.09	-44.59	-	50.02	68.20	18.18
Average Data								
5 457.37 ¹⁾	V	32.67	34.51	-24.41	0.11	42.88	54.00	11.12
11 001.14 ¹⁾	H	54.48	37.70	-48.10	0.11	44.19	54.00	9.81

Middle Channel (5 600 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
11 201.36 ¹⁾	H	64.52	37.86	-48.07	-	54.31	74.00	19.69
16 819.45	H	52.10	43.11	-44.61	-	50.60	68.20	17.60
Average Data								
11 201.36 ¹⁾	H	56.10	37.86	-48.07	0.11	46.00	54.00	8.00

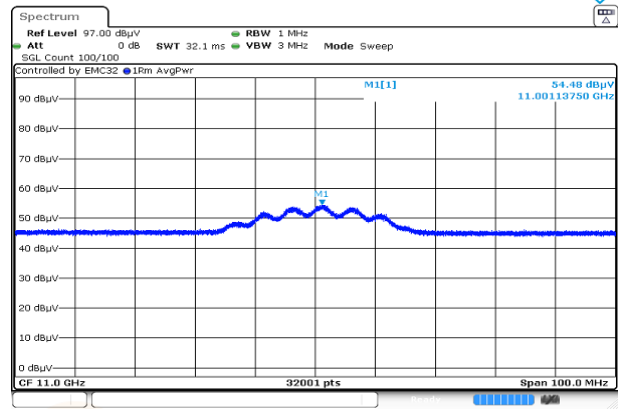
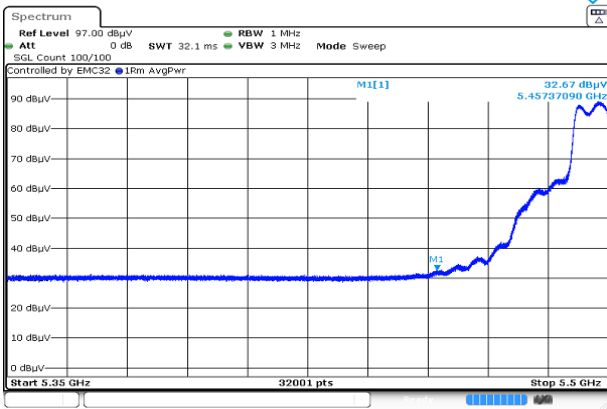
Highest Channel (5 700 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 728.80	V	48.54	34.87	-24.10	-	59.31	68.20	8.89
11 400.87 ¹⁾	H	67.08	38.02	-48.04	-	57.06	74.00	16.94
17 041.19	H	53.06	41.63	-44.62	-	50.07	68.20	18.13
Average Data								
11 400.87 ¹⁾	H	60.65	38.02	-48.04	0.11	50.74	54.00	3.26

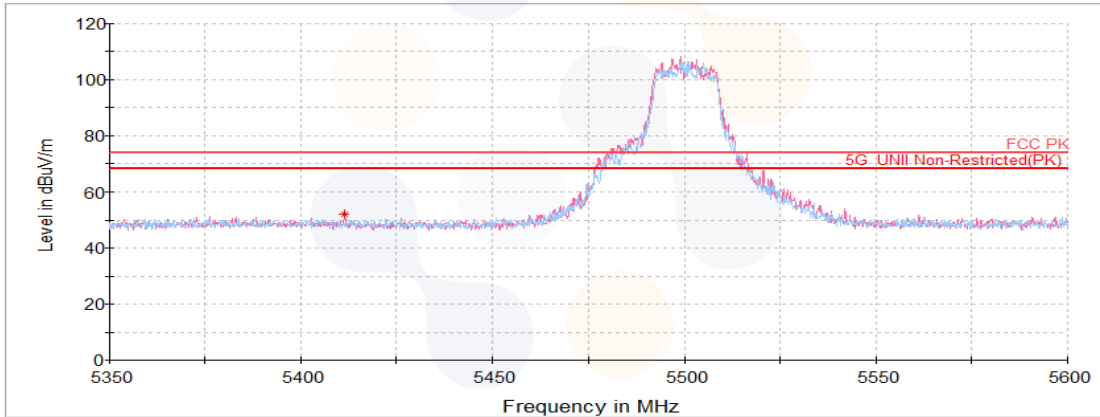
802.11a UNII-2C 2TX MIMO

Lowest Channel (5 500 MHz)

Average data

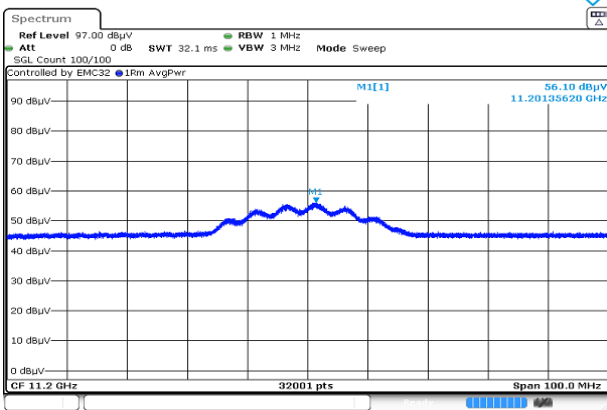


Horizontal/Vertical for Band-edge



Middle Channel (5 600 MHz)

Average data



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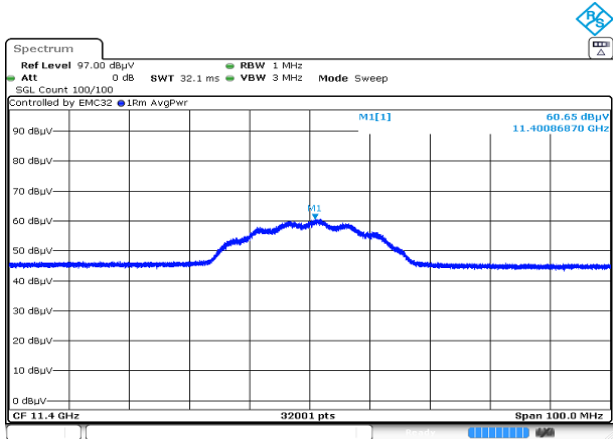
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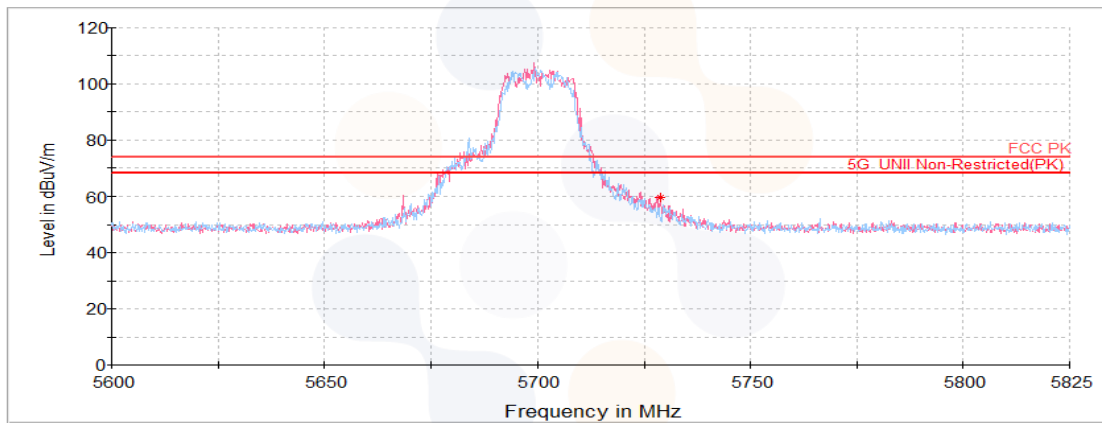
Highest Channel (5 700 MHz)

Average data



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Horizontal/Vertical for Band-edge



802.11n HT20 UNII-2C ANT1

Lowest Channel (5 500 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 459.81 ¹⁾	H	40.16	34.52	-24.41	-	50.27	74.00	23.73
10 965.23 ¹⁾	H	56.77	37.67	-48.12	-	46.32	74.00	27.68
16 563.22	H	52.13	42.70	-44.59	-	50.24	68.20	17.96
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Middle Channel (5 600 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 198.83 ¹⁾	H	56.74	37.86	-48.07	-	46.53	74.00	27.47
16 822.33	H	52.78	43.12	-44.61	-	51.29	68.20	16.91
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

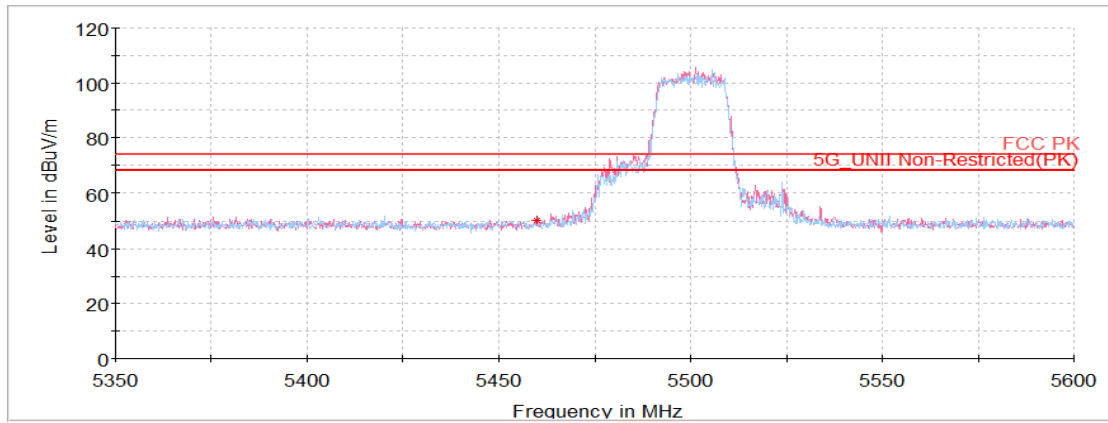
Highest Channel (5 700 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 725.19	H	51.24	34.87	-24.10	-	62.01	68.20	6.19
11 343.30 ¹⁾	V	57.75	37.97	-48.05	-	47.67	74.00	26.33
17 012.80	V	53.57	41.68	-44.62	-	50.63	68.20	17.57
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n HT20 UNII-2C ANT1

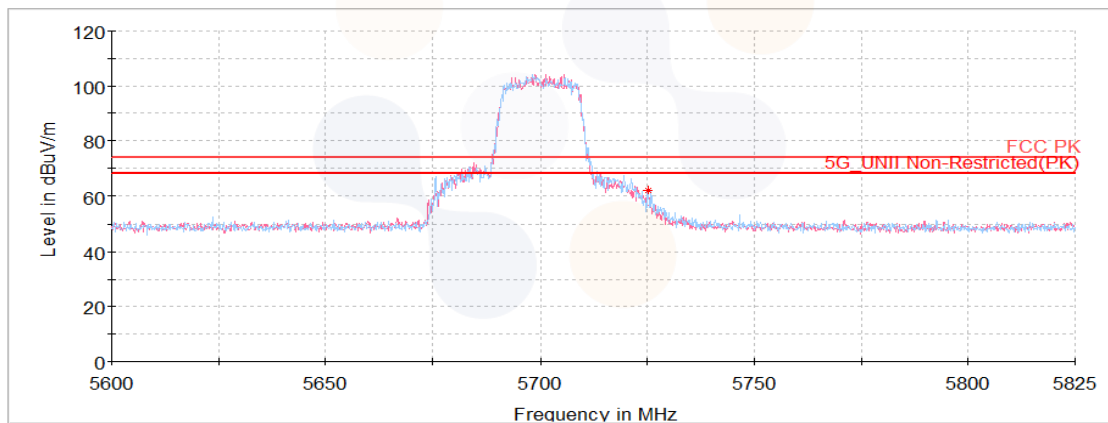
Lowest Channel (5 500 MHz)

Horizontal/Vertical for Band-edge



Highest Channel (5 700 MHz)

Horizontal/Vertical for Band-edge



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**802.11n HT20 UNII-2C ANT2****Lowest Channel (5 500 MHz)**

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 452.25 ¹⁾	H	40.80	34.50	-24.41	-	50.89	74.00	23.11
11 000.99 ¹⁾	H	66.58	37.70	-48.10	-	56.18	74.00	17.82
16 556.39	V	51.02	42.69	-44.59	-	49.12	68.20	19.08
Average Data								
11 000.99 ¹⁾	H	56.24	37.70	-48.10	0.12	45.96	54.00	8.04

Middle Channel (5 600 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 201.03 ¹⁾	H	67.07	37.86	-48.07	-	56.86	74.00	17.14
16 770.58	H	51.61	43.03	-44.60	-	50.04	68.20	18.16
Average Data								
11 201.03 ¹⁾	H	58.63	37.86	-48.07	0.12	48.54	54.00	5.46

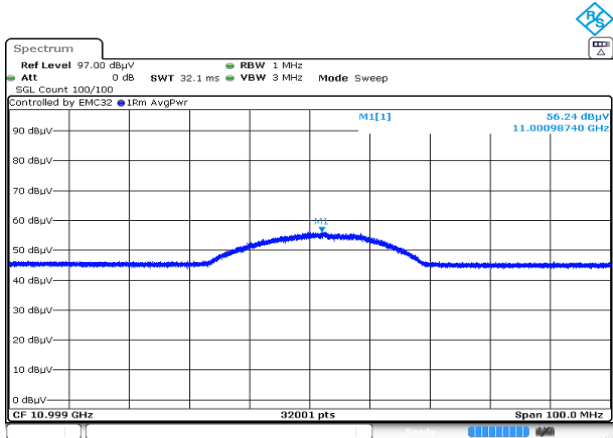
Highest Channel (5 700 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 725.36	V	45.20	34.87	-24.10	-	55.97	68.20	12.23
11 401.33 ¹⁾	V	66.95	38.02	-48.04	-	56.93	74.00	17.07
17 225.55	V	53.68	41.29	-44.64	-	50.33	68.20	17.87
Average Data								
11 401.33 ¹⁾	V	59.72	38.02	-48.04	0.12	49.82	54.00	4.18

802.11n HT20 UNII-2C ANT2

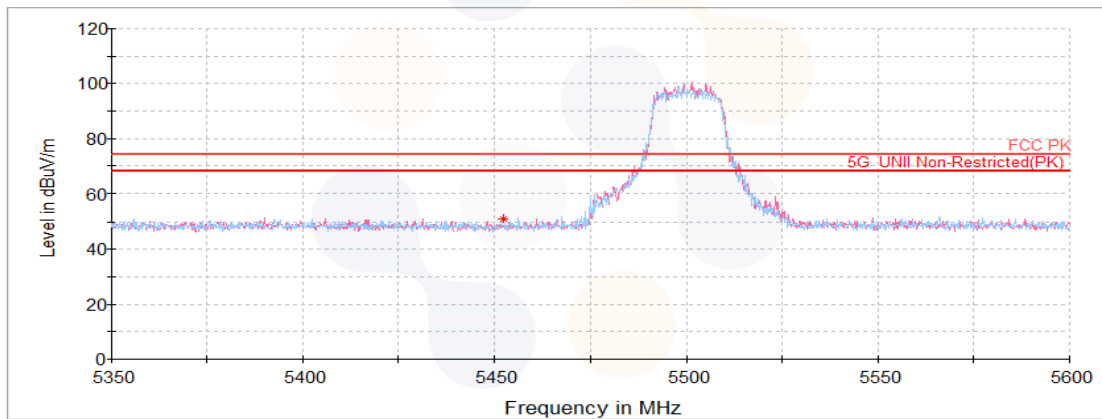
Lowest Channel (5 500 MHz)

Average data



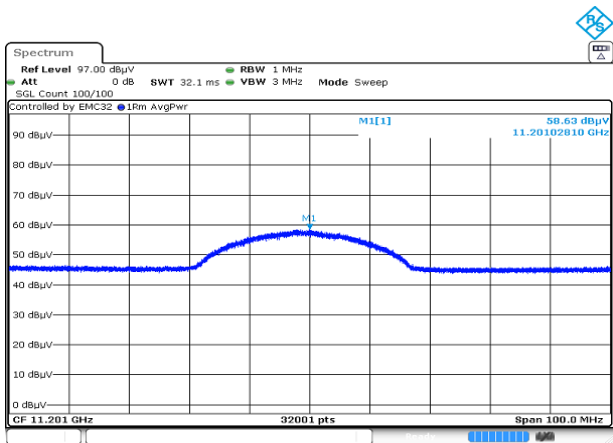
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Horizontal/Vertical for Band-edge



Middle Channel (5 600 MHz)

Average data



Blank

KCTL Inc.

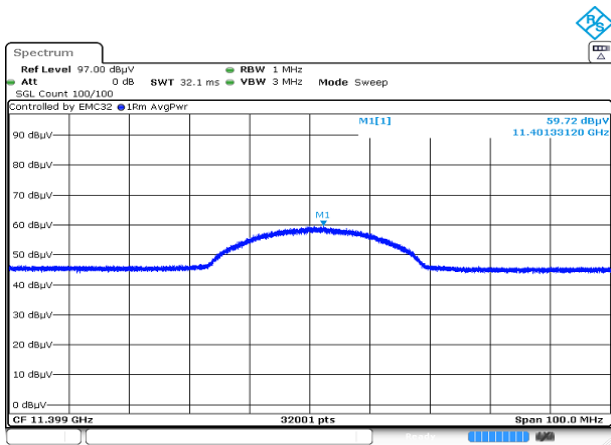
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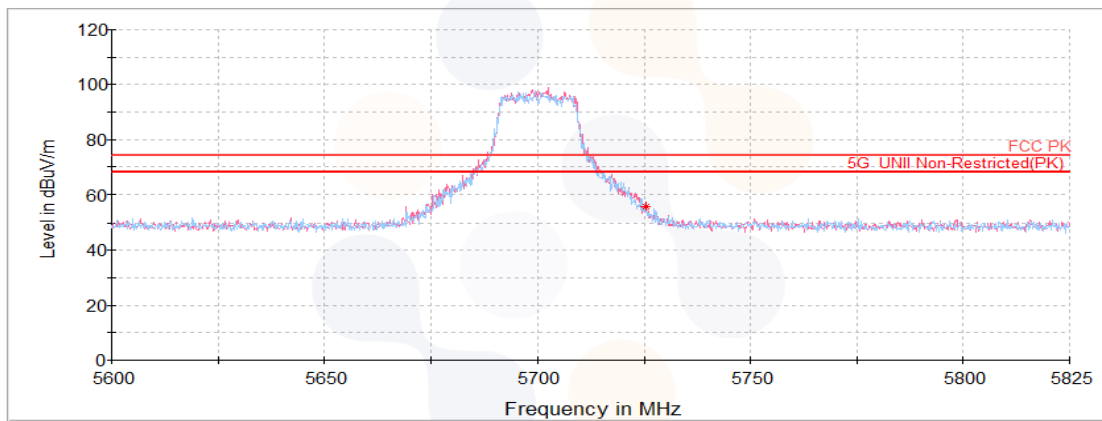
Highest Channel (5 700 MHz)

Average data



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Horizontal/Vertical for Band-edge



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**802.11n HT20 UNII-2C 2TX MIMO****Lowest Channel (5 500 MHz)**

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ N/m))	(dB(μ N/m))	(dB)
Peak data								
5 459.93 ¹⁾	V	41.54	34.52	-24.41	-	51.65	74.00	22.35
11 000.89 ¹⁾	H	64.63	37.70	-48.10	-	54.23	74.00	19.77
16 509.31	V	52.09	42.61	-44.59	-	50.11	68.20	18.09
Average Data								
5 459.93 ¹⁾	V	32.74	34.52	-24.41	0.23	43.08	54.00	10.92
11 000.89 ¹⁾	H	55.15	37.70	-48.10	0.23	44.98	54.00	9.02

Middle Channel (5 600 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ N/m))	(dB(μ N/m))	(dB)
Peak data								
11 200.94 ¹⁾	H	63.08	37.86	-48.07	-	52.87	74.00	21.13
16 779.92	V	52.16	43.05	-44.60	-	50.61	68.20	17.59
Average Data								
11 200.94 ¹⁾	H	56.43	37.86	-48.07	0.23	46.45	54.00	7.55

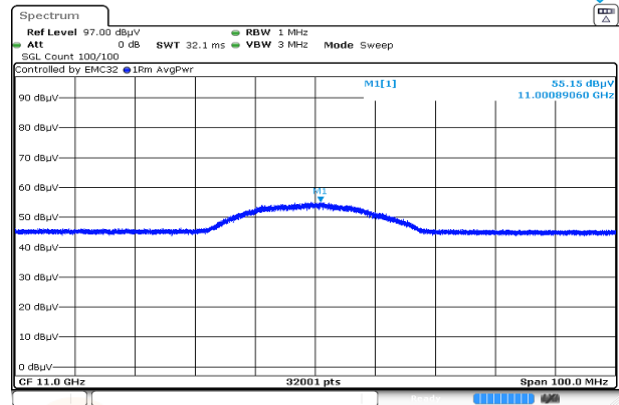
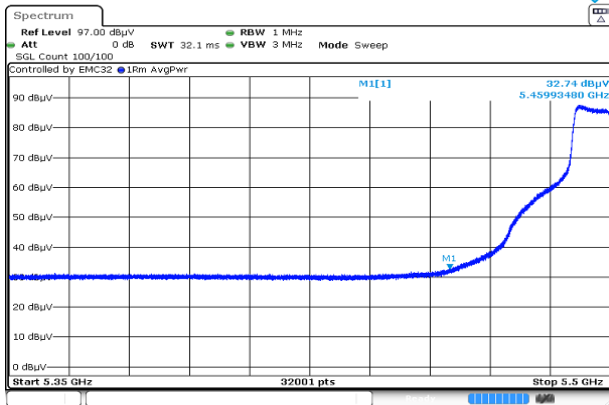
Highest Channel (5 700 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ N/m))	(dB(μ N/m))	(dB)
Peak data								
1 227.22 ¹⁾	V	68.16	27.75	-47.95	-	47.96	74.00	26.04
5 733.78	V	45.35	34.88	-24.09	-	56.14	68.20	12.06
11 401.39 ¹⁾	H	66.91	38.02	-48.04	-	56.89	74.00	17.11
17 183.14	V	53.74	41.37	-44.64	-	50.47	68.20	17.73
Average Data								
11 401.39 ¹⁾	H	60.32	38.02	-48.04	0.23	50.53	54.00	3.47

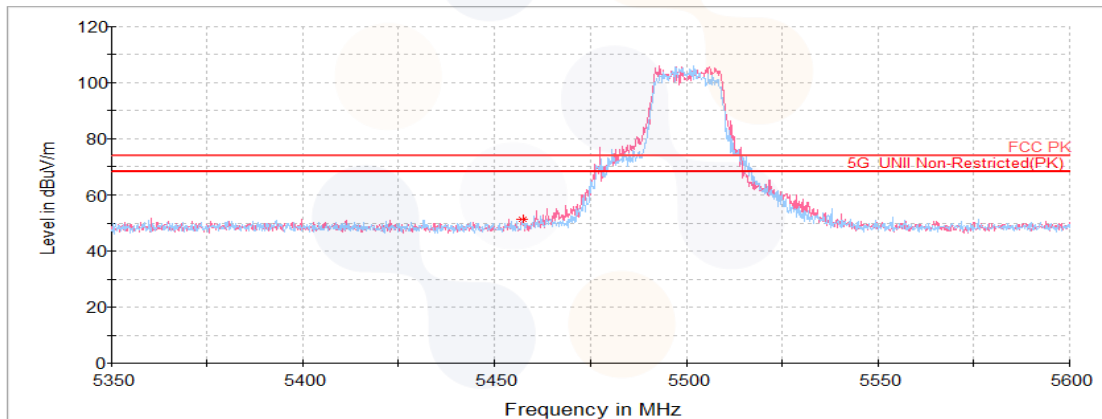
802.11n HT20 UNII-2C 2TX MIMO

Lowest Channel (5 500 MHz)

Average data

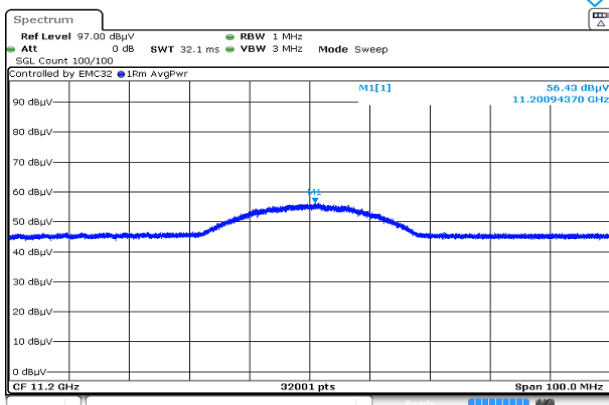


Horizontal/Vertical for Band-edge



Middle Channel (5 600 MHz)

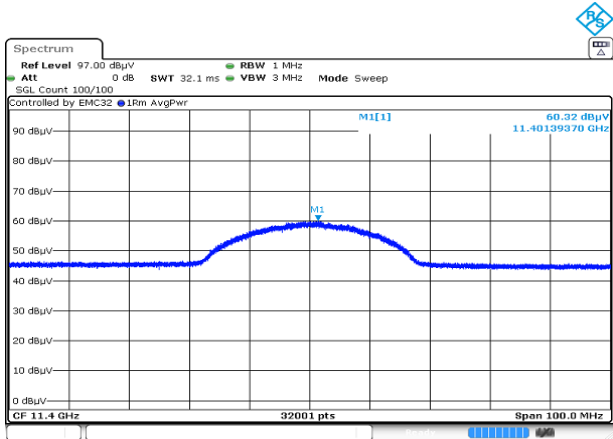
Average data



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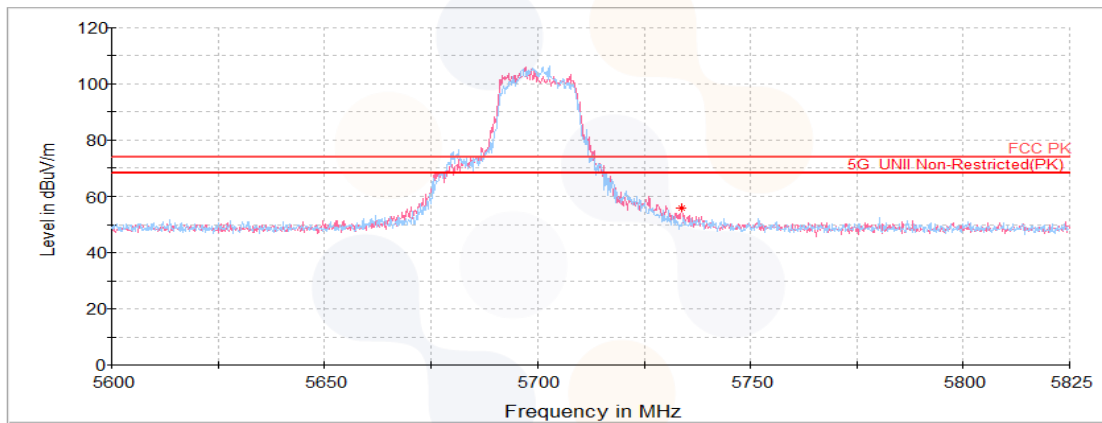
Highest Channel (5 700 MHz)

Average data



Blank

Horizontal/Vertical for Band-edge



802.11n HT40 UNII-2C ANT1

Lowest Channel (5 510 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								
5 459.70 ¹⁾	V	44.18	34.52	-24.41	-	54.29	74.00	19.71
10 860.66 ¹⁾	H	57.93	37.59	-48.18	-	47.34	74.00	26.66
16 625.75	H	52.70	42.80	-44.60	-	50.90	68.20	17.30
Average Data								
5 459.70 ¹⁾	V	36.08	34.52	-24.41	0.23	46.42	54.00	7.58

Middle Channel (5 590 MHz)

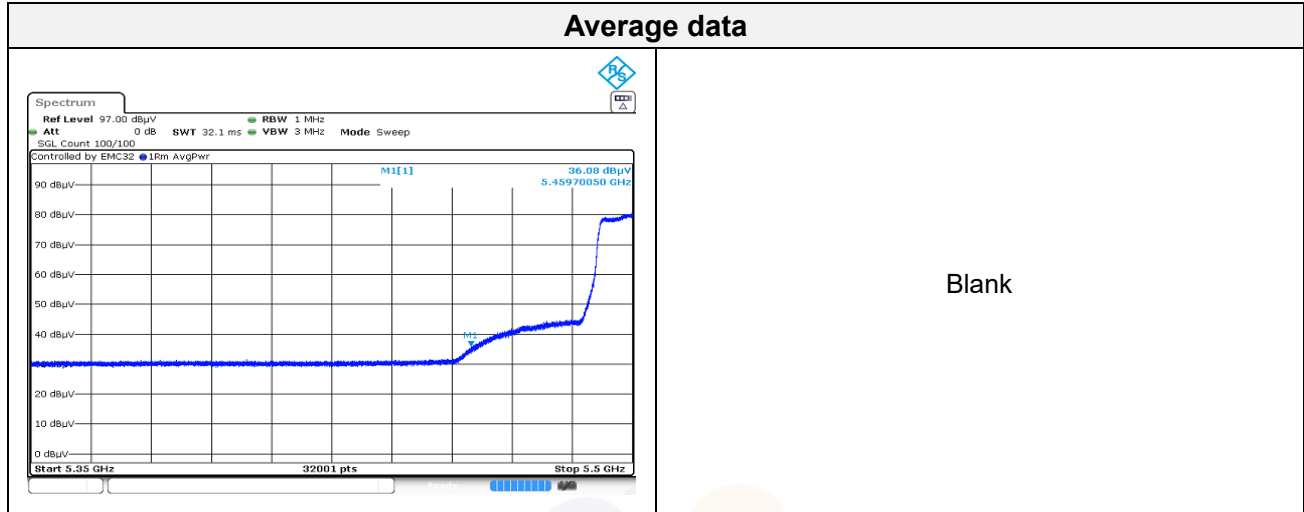
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 204.58 ¹⁾	H	56.52	37.86	-48.07	-	46.31	74.00	27.69
16 819.45	V	52.07	43.11	-44.61	-	50.57	68.20	17.63
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 670 MHz)

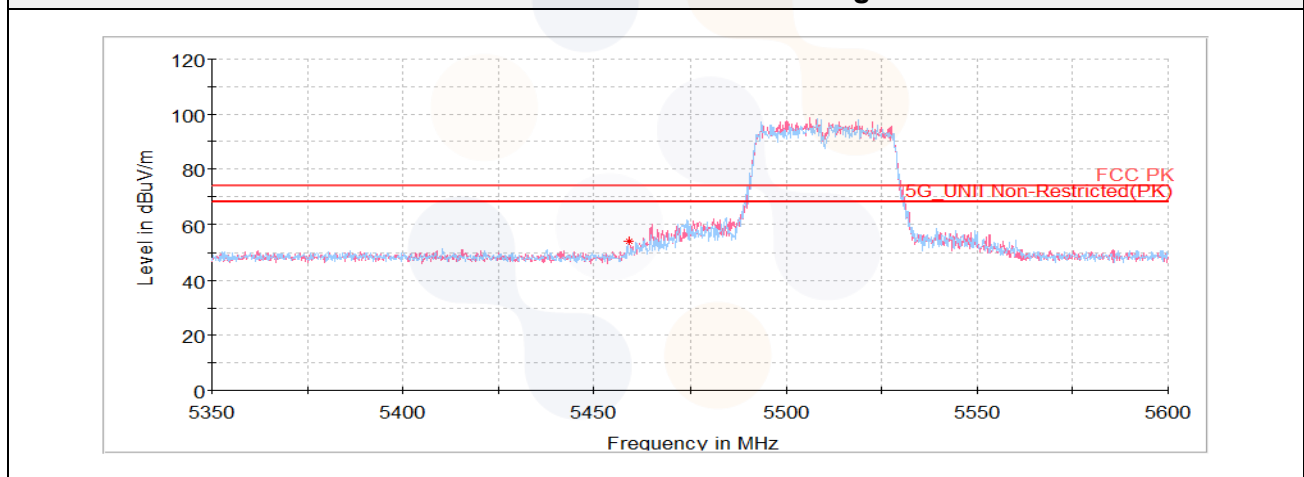
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 725.53	H	41.81	34.87	-24.10	-	52.58	68.20	15.62
11 283.64 ¹⁾	V	56.56	37.93	-48.06	-	46.43	74.00	27.57
16 994.47	V	52.39	43.39	-44.62	-	51.16	68.20	17.04
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n HT40 UNII-2C ANT1

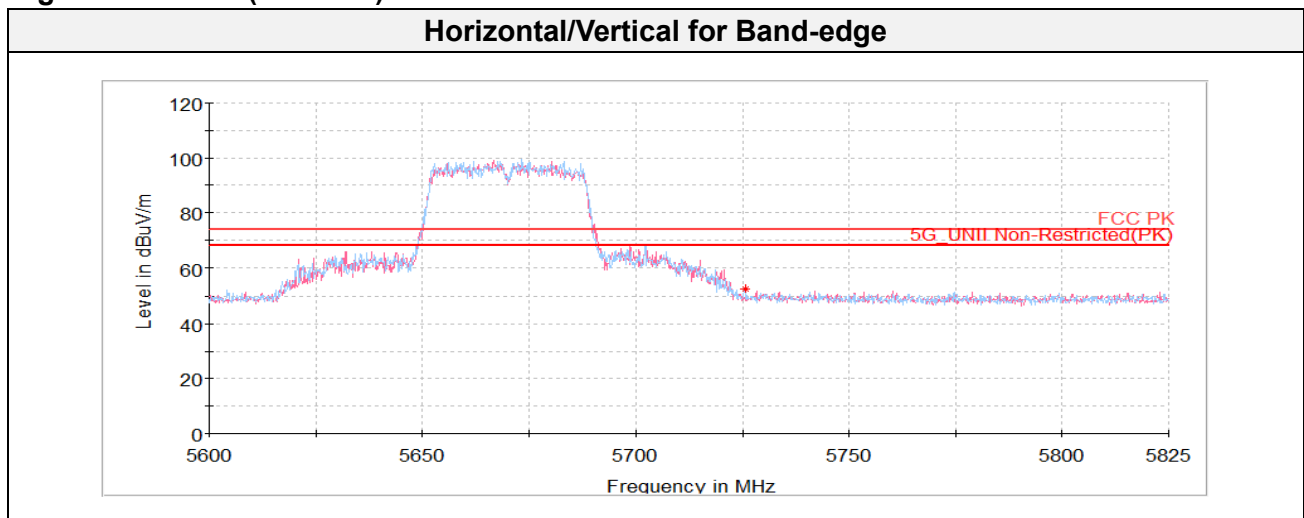
Lowest Channel (5 510 MHz)



Horizontal/Vertical for Band-edge



Highest Channel (5 670 MHz)



802.11n HT40 UNII-2C ANT2

Lowest Channel (5 510 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 436.27 ¹⁾	H	40.63	34.47	-24.42	-	50.68	74.00	23.32
11 011.95 ¹⁾	H	56.96	37.71	-48.10	-	46.57	74.00	27.43
16 461.52	V	51.55	43.00	-44.60	-	49.95	68.20	18.25
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Middle Channel (5 590 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
11 184.45 ¹⁾	H	61.12	37.85	-48.07	-	50.90	74.00	23.10
16 792.50	V	51.28	43.07	-44.61	-	49.74	68.20	18.46
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 670 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 744.95	V	40.24	34.89	-24.07	-	51.06	68.20	17.14
11 341.34 ¹⁾	H	62.40	37.97	-48.05	-	52.32	74.00	21.68
17 014.95	H	53.34	41.67	-44.62	-	50.39	68.20	17.81
Average Data								
11 341.34 ¹⁾	H	53.51	37.97	-48.05	0.23	43.66	54.00	10.34

KCTL Inc.

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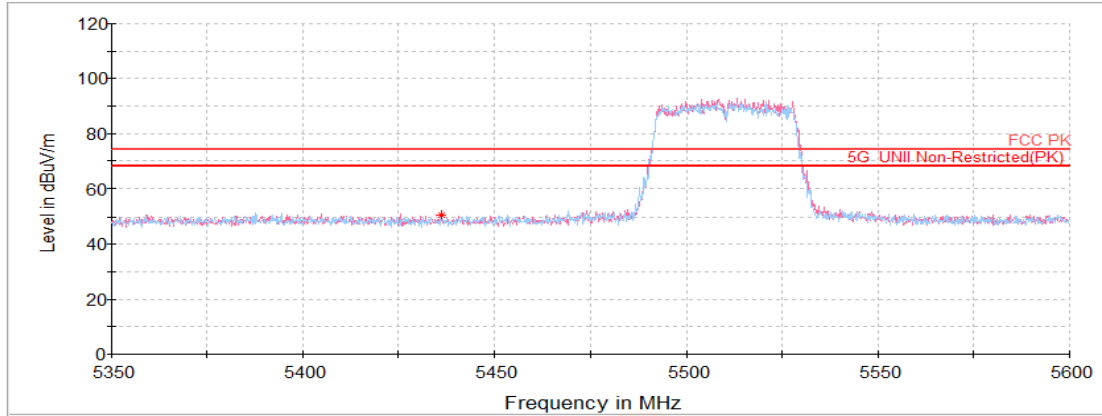
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802.11n HT40 UNII-2C ANT2

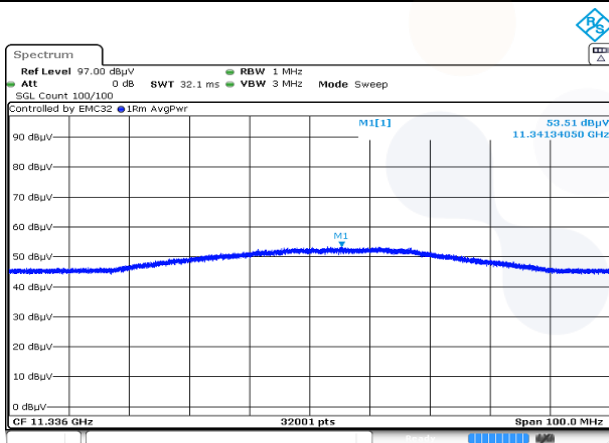
Lowest Channel (5 510 MHz)

Horizontal/Vertical for Band-edge



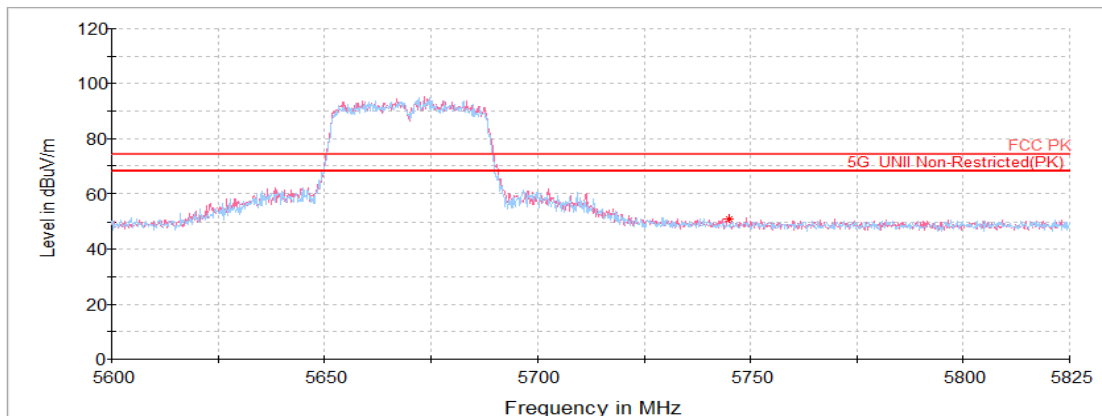
Highest Channel (5 670 MHz)

Average data



Blank

Horizontal/Vertical for Band-edge



802.11n HT40 UNII-2C 2TX MIMO

Lowest Channel (5 510 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
2 936.69	H	68.70	32.90	-44.92	-	56.68	68.20	11.52
5 459.95 ¹⁾	V	45.11	34.52	-24.41	-	55.22	74.00	18.78
11 017.70 ¹⁾	H	58.79	37.71	-48.10	-	48.40	74.00	25.60
16 609.94	H	52.42	42.78	-44.60	-	50.60	68.20	17.60
Average Data								
5 459.95 ¹⁾	V	38.07	34.52	-24.41	0.42	48.60	54.00	5.40

Middle Channel (5 590 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
11 182.66 ¹⁾	H	58.44	37.85	-48.07	-	48.22	74.00	25.78
16 687.92	H	52.44	42.90	-44.60	-	50.74	68.20	17.46
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

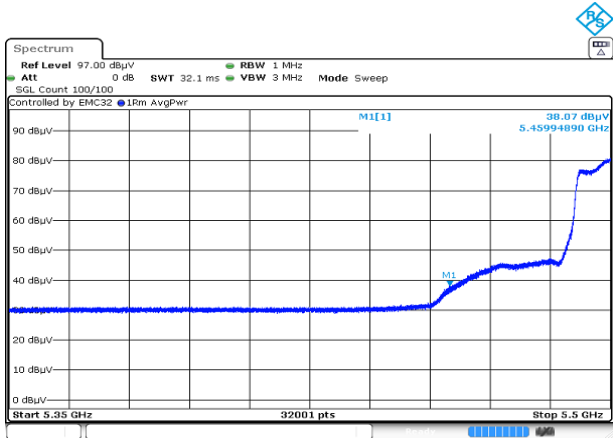
Highest Channel (5 670 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 727.42	H	44.48	34.87	-24.10	-	55.25	68.20	12.95
11 347.25 ¹⁾	V	59.63	37.98	-48.05	-	49.56	74.00	24.44
17 009.20	V	53.85	41.68	-44.62	-	50.91	68.20	17.29
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11n HT40 UNII-2C 2TX MIMO

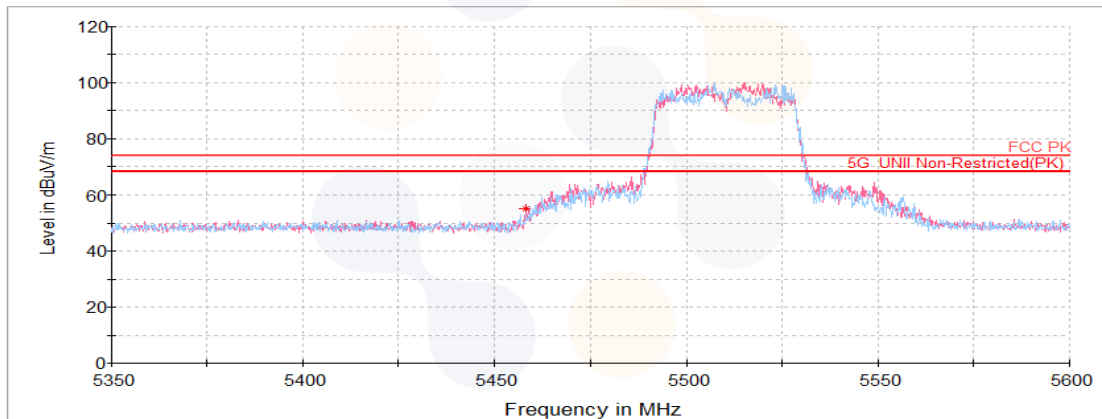
Lowest Channel (5 510 MHz)

Average data



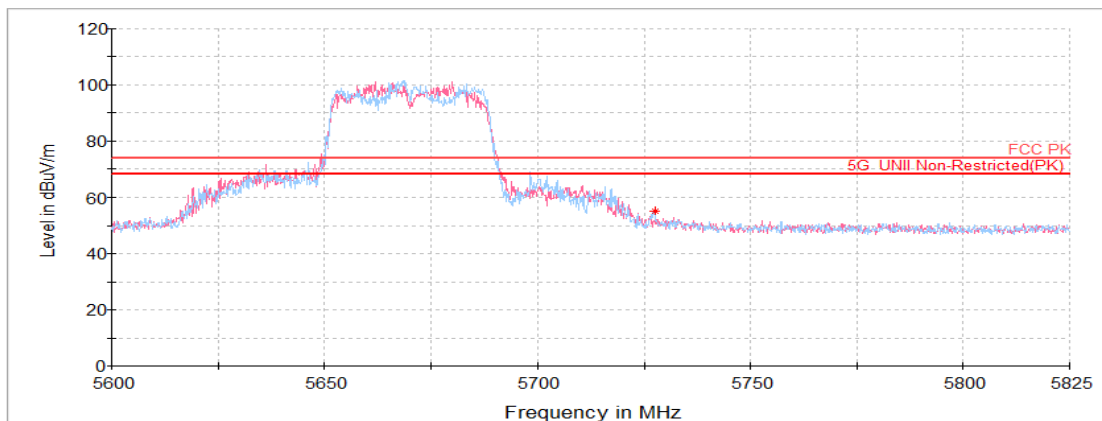
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Horizontal/Vertical for Band-edge



Highest Channel (5 670 MHz)

Horizontal/Vertical for Band-edge



802.11ac VHT20 UNII-2C ANT1

Lowest Channel (5 500 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 459.86 ¹⁾	V	41.33	34.52	-24.41	-	51.44	74.00	22.56
10 995.06 ¹⁾	V	56.81	37.70	-48.10	-	46.41	74.00	27.59
16 423.06	V	52.22	42.90	-44.61	-	50.51	68.20	17.69
Average Data								
5 459.86	V	32.44	34.52	-24.41	0.12	42.67	54.00	11.33

Middle Channel (5 600 MHz)

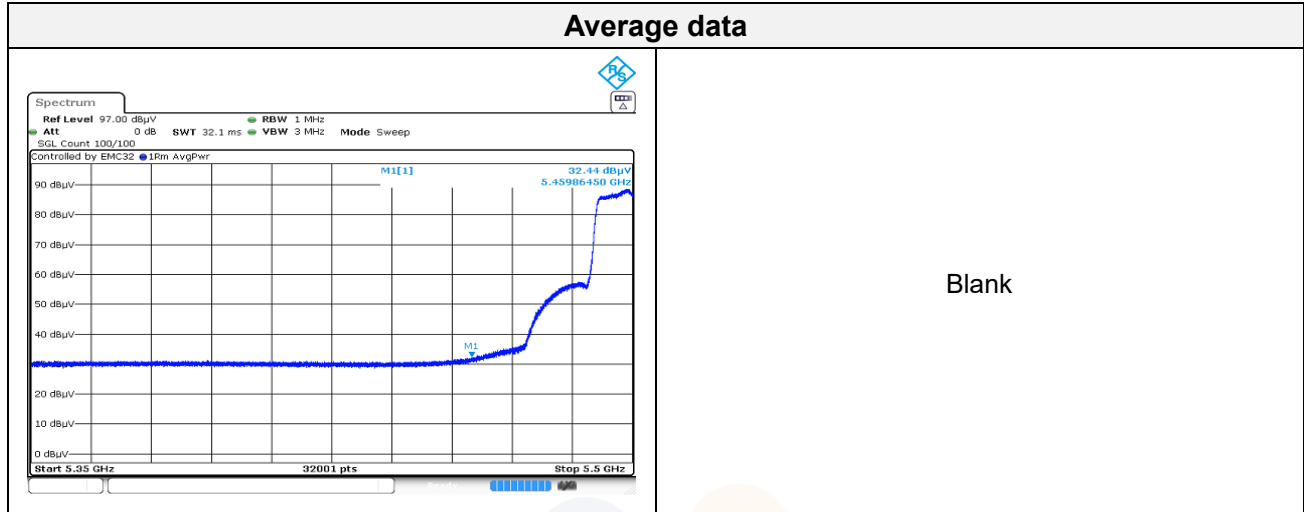
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 301.61 ¹⁾	H	56.71	37.94	-48.06	-	46.59	74.00	27.41
16 851.08	V	51.94	43.16	-44.61	-	50.49	68.20	17.71
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Highest Channel (5 700 MHz)

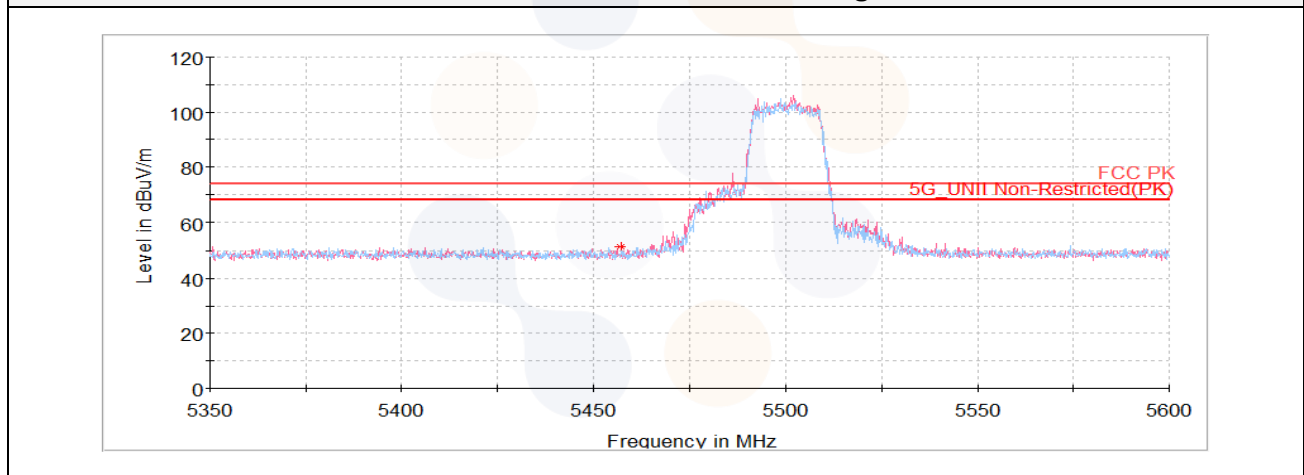
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 725.19	H	50.63	34.87	-24.10	-	61.40	68.20	6.80
11 353.36 ¹⁾	H	57.26	37.98	-48.05	-	47.19	74.00	26.81
17 069.94	V	52.71	41.57	-44.62	-	49.66	68.20	18.54
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11ac VHT20 UNII-2C ANT1

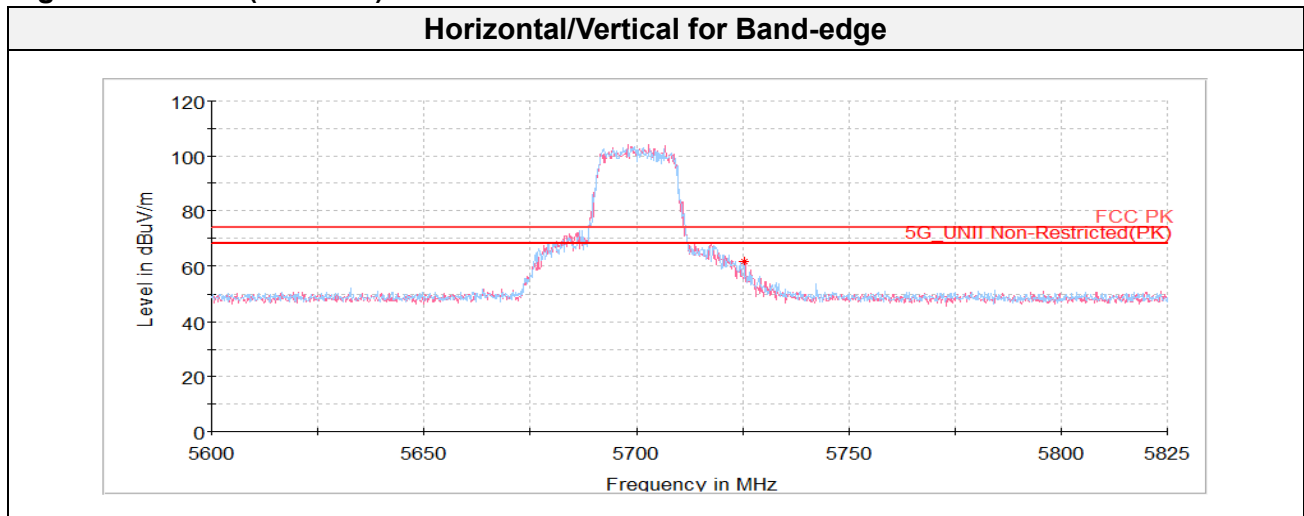
Lowest Channel (5 500 MHz)



Horizontal/Vertical for Band-edge



Highest Channel (5 700 MHz)



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Suwon-si, Gyeonggi-do, 16677, Korea
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**802.11ac VHT20 UNII-2C ANT2****Lowest Channel (5 500 MHz)**

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 459.61 ¹⁾	H	41.77	34.52	-24.41	-	51.88	74.00	22.12
10 998.90 ¹⁾	H	64.14	37.70	-48.10	-	53.74	74.00	20.26
16 515.78	H	52.66	42.63	-44.59	-	50.70	68.20	17.50
Average Data								
5 459.61 ¹⁾	H	30.51	34.52	-24.41	0.12	40.74	54.00	13.26
10 998.90 ¹⁾	H	56.64	37.70	-48.10	0.12	46.36	54.00	7.64

Middle Channel (5 600 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
11 201.24 ¹⁾	H	67.42	37.86	-48.07	-	57.21	74.00	16.79
16 802.20	V	51.57	43.08	-44.61	-	50.04	68.20	18.16
Average Data								
11 201.24 ¹⁾	H	59.52	37.86	-48.07	0.12	49.43	54.00	4.57

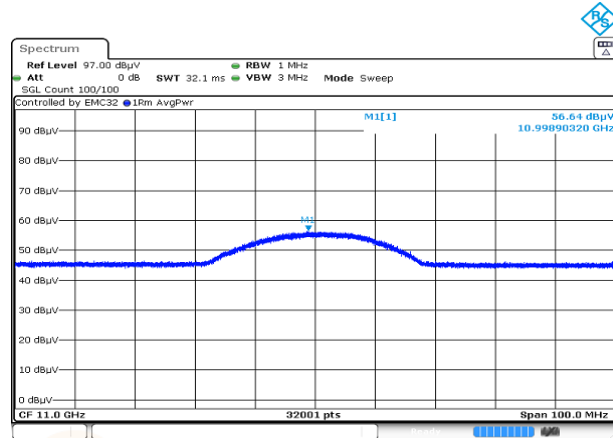
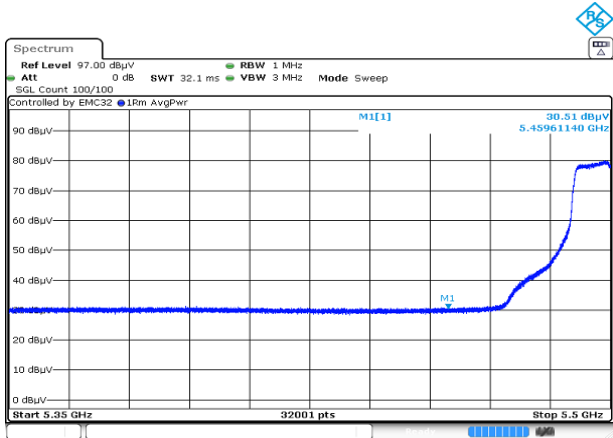
Highest Channel (5 700 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 725.70	V	45.47	34.87	-24.10	-	56.24	68.20	11.96
11 399.07 ¹⁾	V	65.57	38.02	-48.04	-	55.55	74.00	18.45
16 987.28	V	53.20	43.38	-44.62	-	51.96	68.20	16.24
Average Data								
11 399.07 ¹⁾	V	59.60	38.02	-48.04	0.12	49.70	54.00	4.30

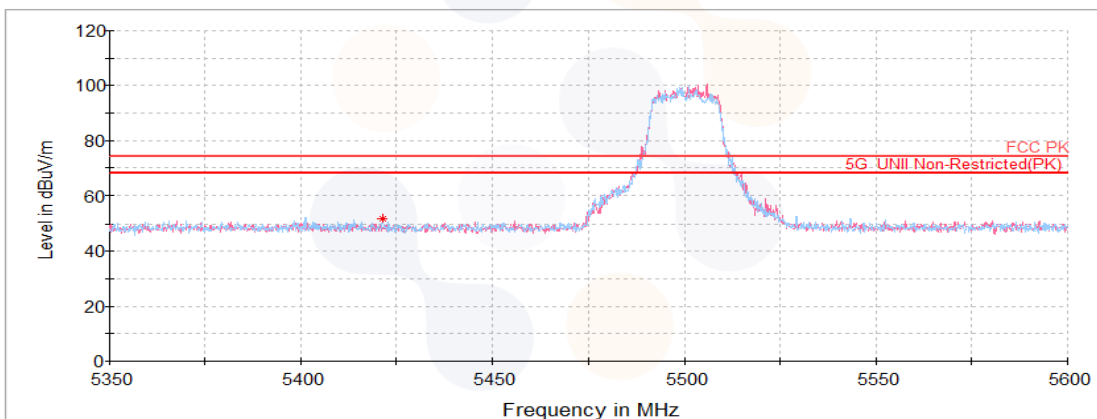
802.11ac VHT20 UNII-2C ANT2

Lowest Channel (5 500 MHz)

Average data

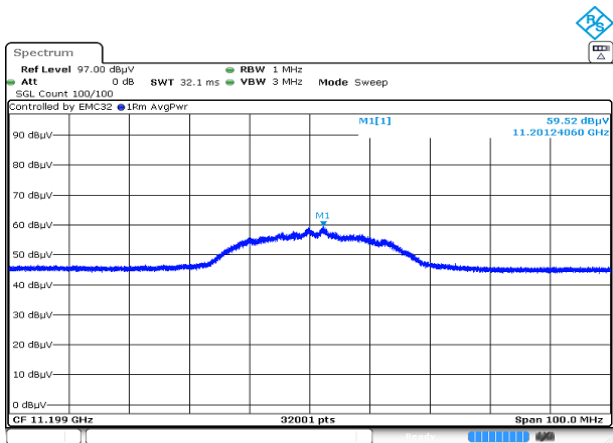


Horizontal/Vertical for Band-edge



Middle Channel (5 600 MHz)

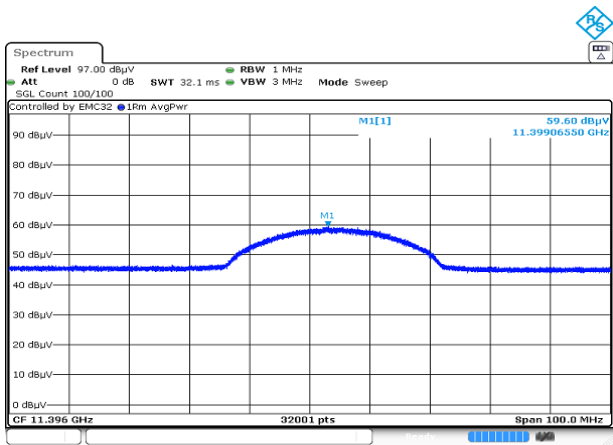
Average data



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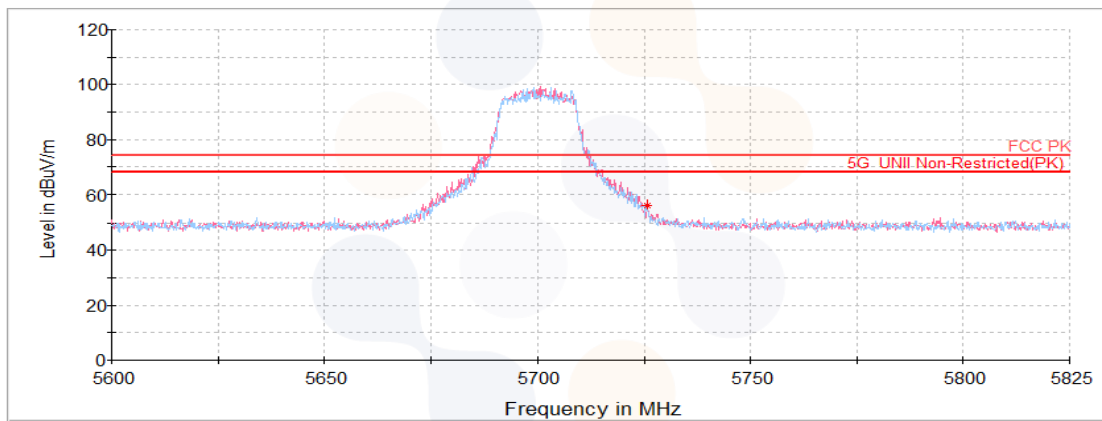
Highest Channel (5 700 MHz)

Average data



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Horizontal/Vertical for Band-edge



KCTL Inc.

65, Sinwon-ro, Yeongtong-gu,
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**802.11ac VHT20 UNII-2C 2TX MIMO****Lowest Channel (5 500 MHz)**

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ N/m))	Limit (dB(μ N/m))	Margin (dB)
Peak data								
5 459.88 ¹⁾	V	41.17	34.52	-24.41	-	51.28	74.00	22.72
11 001.56 ¹⁾	H	64.93	37.70	-48.10	-	54.53	74.00	19.47
16 508.95	H	51.93	42.61	-44.59	-	49.95	68.20	18.25
Average Data								
5 459.88 ¹⁾	V	33.17	34.52	-24.41	0.22	43.50	54.00	10.50
11 001.56 ¹⁾	H	55.21	37.70	-48.10	0.22	45.03	54.00	8.97

Middle Channel (5 600 MHz)

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ N/m))	Limit (dB(μ N/m))	Margin (dB)
Peak data								
11 201.49 ¹⁾	H	63.64	37.86	-48.07	-	53.43	74.00	20.57
16 810.11	H	52.02	43.10	-44.61	-	50.51	68.20	17.69
Average Data								
11 201.49 ¹⁾	H	56.22	37.86	-48.07	0.22	46.23	54.00	7.77

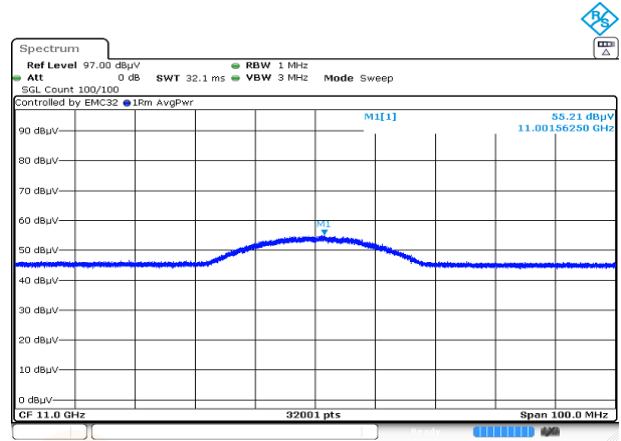
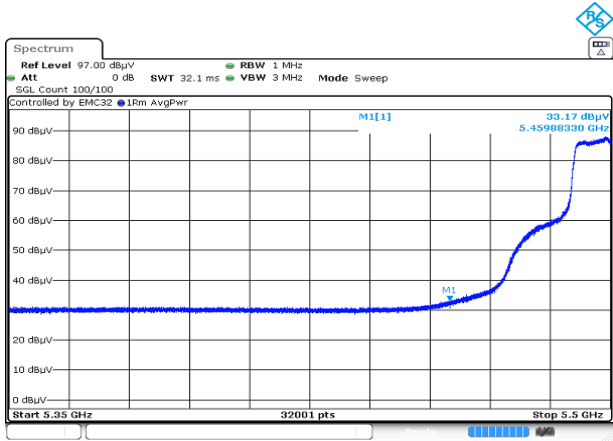
Highest Channel (5 700 MHz)

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCF (dB)	Result (dB(μ N/m))	Limit (dB(μ N/m))	Margin (dB)
Peak data								
5 728.97	H	46.09	34.87	-24.10	-	56.86	68.20	11.34
11 401.30 ¹⁾	H	66.50	38.02	-48.04	-	56.48	74.00	17.52
17 178.11	H	53.64	41.38	-44.63	-	50.39	68.20	17.81
Average Data								
11 401.30 ¹⁾	H	59.64	38.02	-48.04	0.22	49.84	54.00	4.16

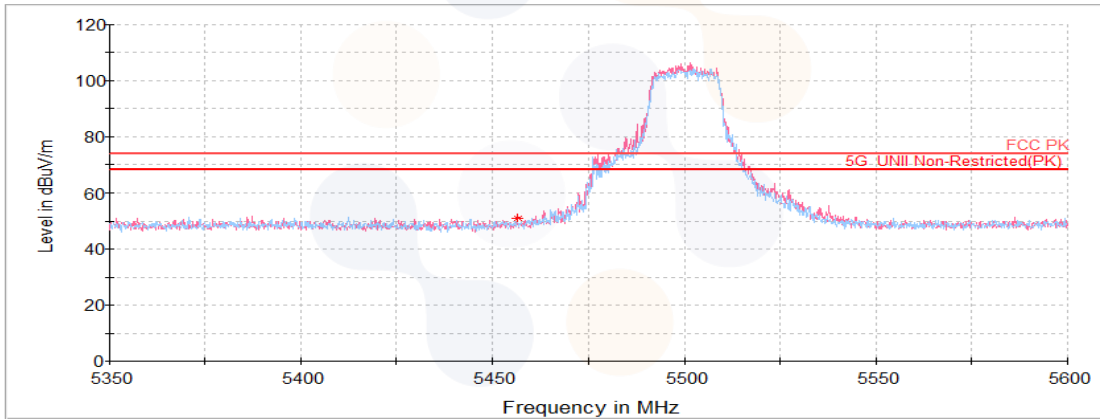
802.11ac VHT20 UNII-2C 2TX MIMO

Lowest Channel (5 500 MHz)

Average data

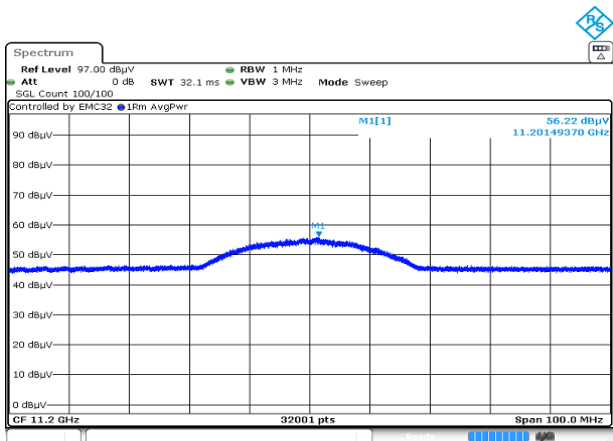


Horizontal/Vertical for Band-edge



Middle Channel (5 600 MHz)

Average data



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KCTL Inc.

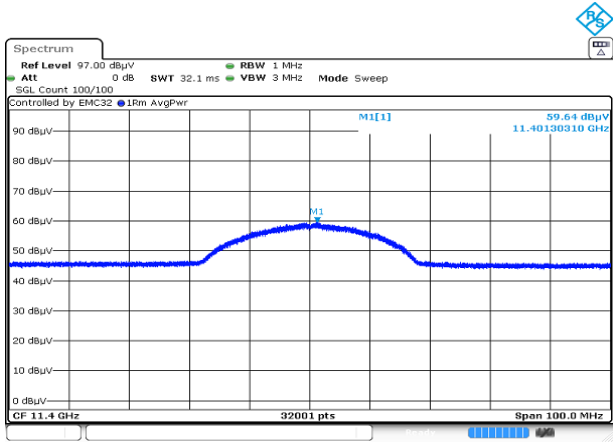
65, Sinwon-ro, Yeongtong-gu,
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TEL: 82-31-285-0894 FAX: 82-505-299-8311
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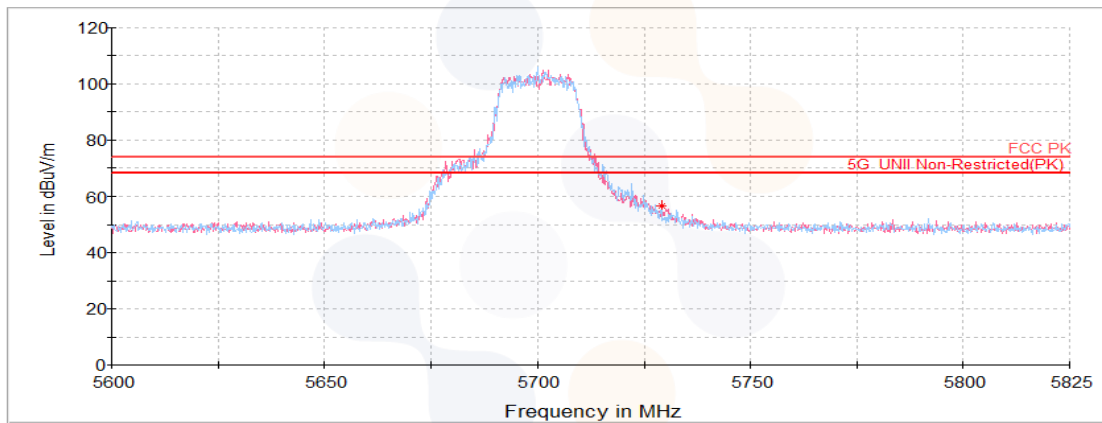
Highest Channel (5 700 MHz)

Average data



Blank

Horizontal/Vertical for Band-edge



802.11ac VHT40 UNII-2C ANT1

Lowest Channel (5 510 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 459.89 ¹⁾	V	42.57	34.52	-24.41	-	52.68	74.00	21.32
10 970.27 ¹⁾	V	56.58	37.68	-48.12	-	46.14	74.00	27.86
16 538.42	H	53.23	42.66	-44.59	-	51.30	68.20	16.90
Average Data								
5 459.89 ¹⁾	V	36.31	34.52	-24.41	0.24	46.66	54.00	7.34

Middle Channel (5 590 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 186.25 ¹⁾	V	56.17	37.85	-48.07	-	45.95	74.00	28.05
16 799.69	V	51.55	43.08	-44.61	-	50.02	68.20	18.18
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

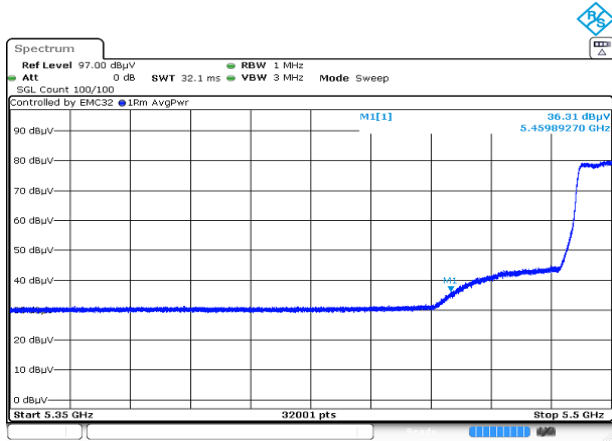
Highest Channel (5 670 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 736.02	H	40.87	34.88	-24.09	-	51.66	68.20	16.54
11 418.05 ¹⁾	V	57.76	38.03	-48.04	-	47.75	74.00	26.25
16 963.20	V	51.35	43.34	-44.61	-	50.08	68.20	18.12
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11ac VHT40 UNII-2C ANT1

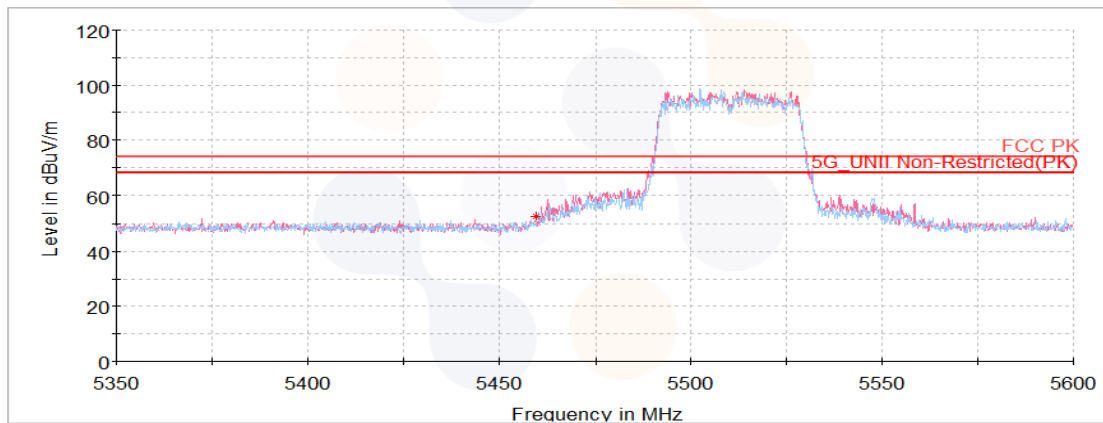
Lowest Channel (5 510 MHz)

Average data



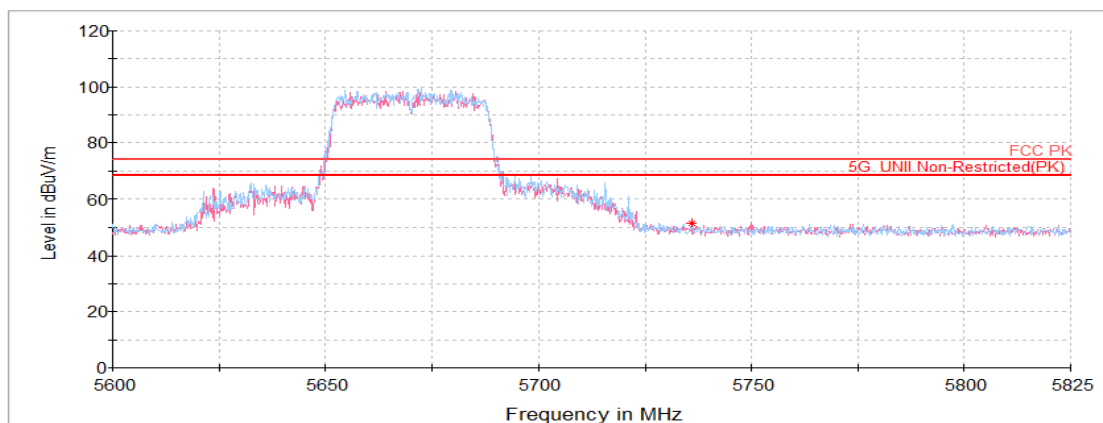
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Horizontal/Vertical for Band-edge



Highest Channel (5 670 MHz)

Horizontal/Vertical for Band-edge



802.11ac VHT40 UNII-2C ANT2

Lowest Channel (5 510 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								
5 458.85 ¹⁾	V	41.71	34.52	-24.41	-	51.82	74.00	22.18
11 030.64 ¹⁾	H	58.91	37.72	-48.10	-	48.53	74.00	25.47
16 524.05	H	51.89	42.64	-44.59	-	49.94	68.20	18.26
Average Data								
5 458.85 ¹⁾	V	31.20	34.52	-24.41	0.24	41.55	54.00	12.45

Middle Channel (5 590 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								
11 185.53 ¹⁾	H	60.99	37.85	-48.07	-	50.77	74.00	23.23
16 855.03	H	51.65	43.17	-44.61	-	50.21	68.20	17.99
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

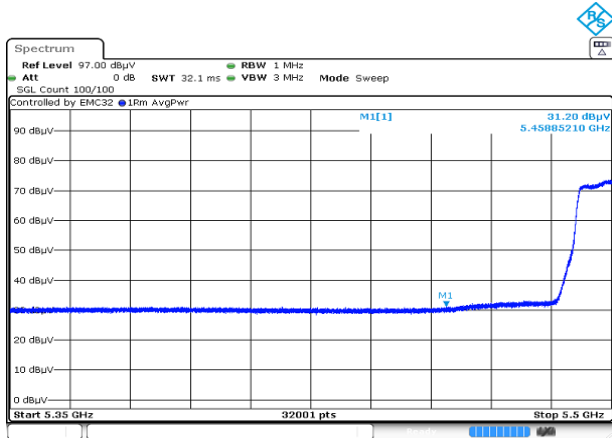
Highest Channel (5 670 MHz)

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								
5 728.28	V	40.66	34.87	-24.10	-	51.43	68.20	16.77
11 341.55 ¹⁾	V	63.52	37.97	-48.05	-	53.44	74.00	20.56
16 971.11	V	51.21	43.35	-44.61	-	49.95	68.20	18.25
Average Data								
11 341.55 ¹⁾	V	54.97	37.97	-48.05	0.24	45.13	54.00	8.87

802.11ac VHT40 UNII-2C ANT2

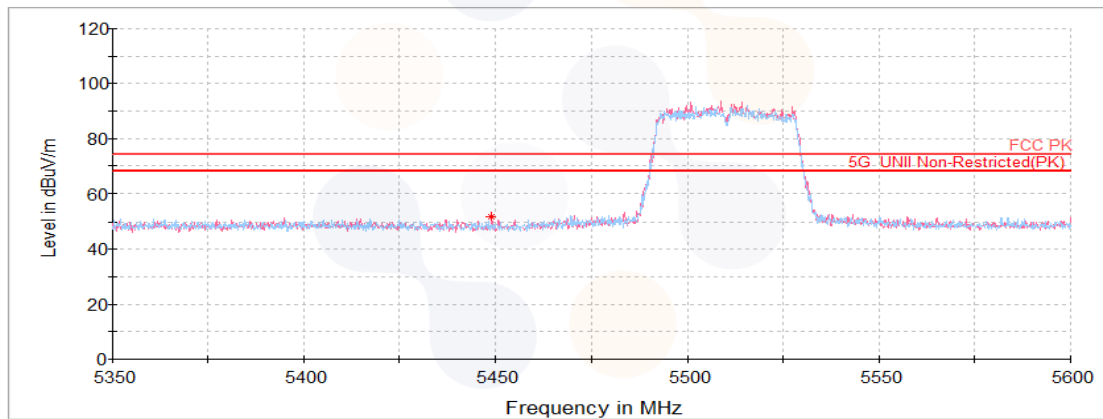
Lowest Channel (5 510 MHz)

Average data



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Horizontal/Vertical for Band-edge



KCTL Inc.

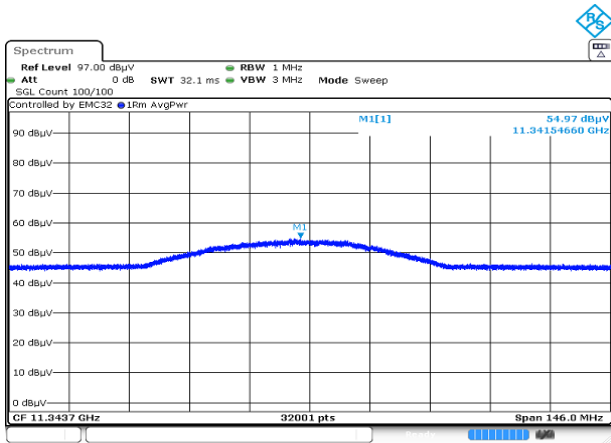
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

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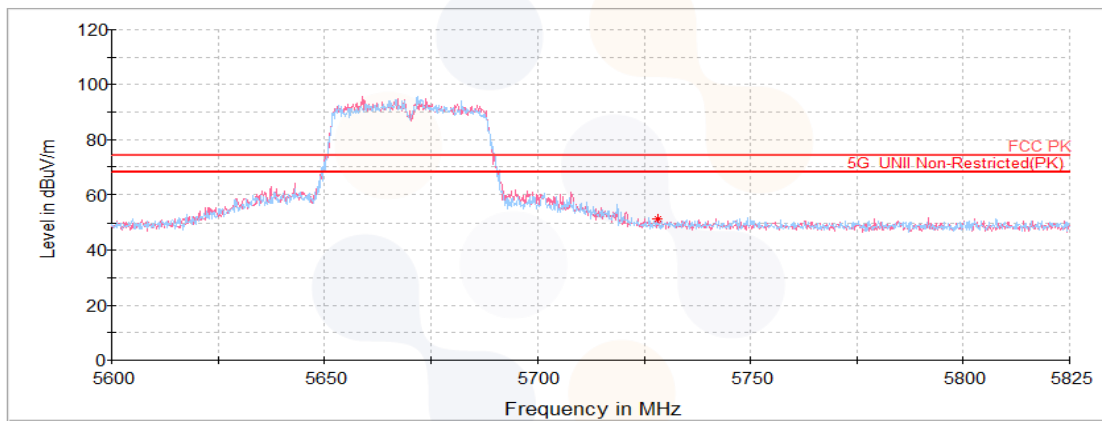
Highest Channel (5 670 MHz)

Average data



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Horizontal/Vertical for Band-edge



802.11ac VHT40 UNII-2C 2TX MIMO

Lowest Channel (5 510 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 459.86 ¹⁾	V	41.82	34.52	-24.41	-	51.93	74.00	22.07
11 029.56 ¹⁾	H	58.40	37.72	-48.10	-	48.02	74.00	25.98
16 577.23	V	52.17	42.72	-44.59	-	50.30	68.20	17.90
Average Data								
5 459.86 ¹⁾	V	37.62	34.52	-24.41	0.41	48.14	54.00	5.86

Middle Channel (5 590 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 195.59 ¹⁾	H	58.94	37.86	-48.07	-	48.73	74.00	25.27
16 815.50	V	52.34	43.10	-44.61	-	50.83	68.20	17.37
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

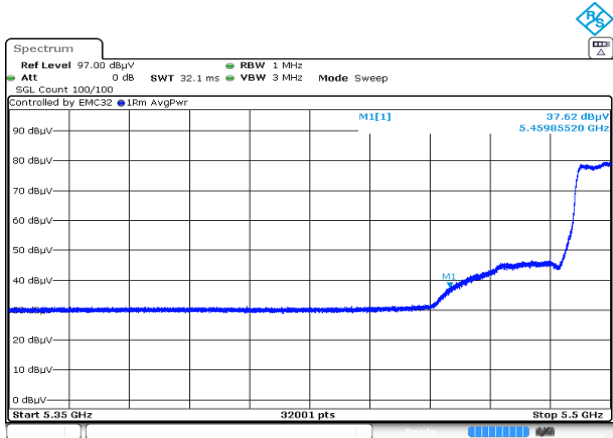
Highest Channel (5 670 MHz)

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 732.23	V	42.82	34.88	-24.09	-	53.61	68.20	14.59
11 336.47 ¹⁾	H	60.84	37.97	-48.05	-	50.76	74.00	23.24
16 999.50	H	52.26	43.40	-44.62	-	51.04	68.20	17.16
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11ac VHT40 UNII-2C 2TX MIMO

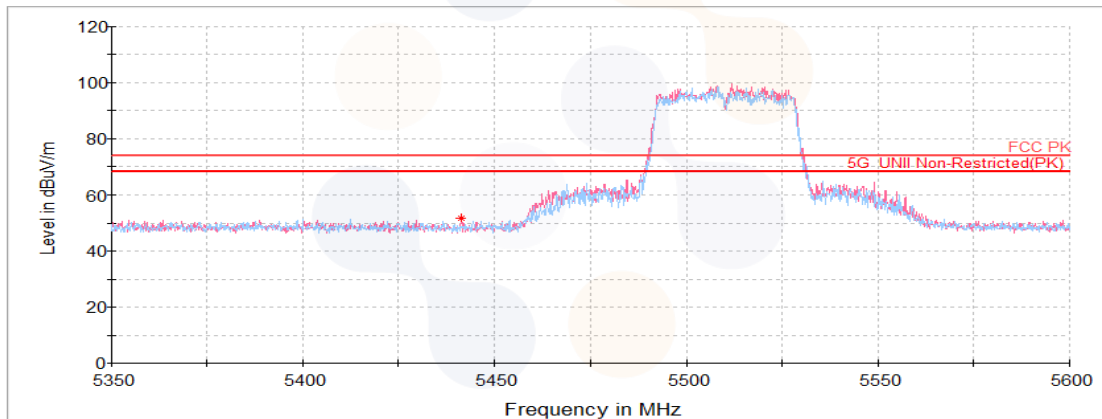
Lowest Channel (5 510 MHz)

Average data



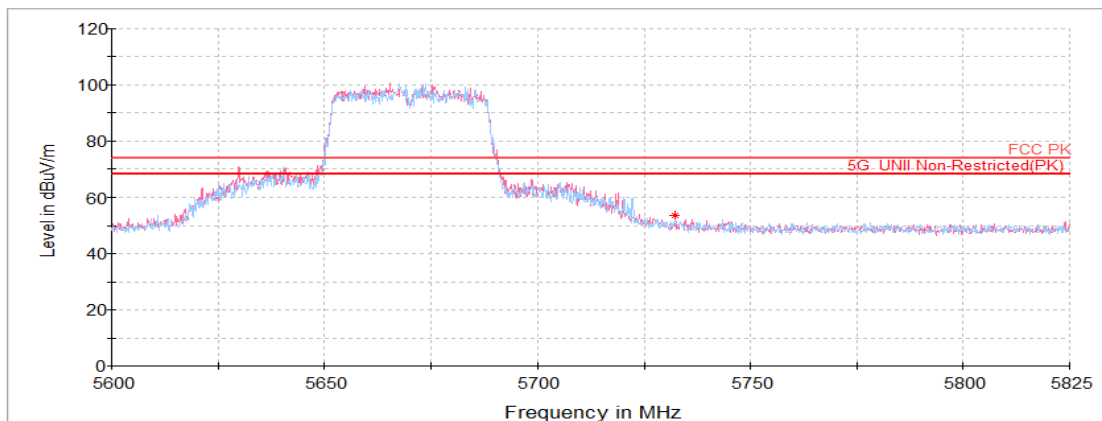
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Horizontal/Vertical for Band-edge



Highest Channel (5 670 MHz)

Horizontal/Vertical for Band-edge



802.11ac VHT80 UNII-2C ANT1

Lowest Channel (5 530 MHz)

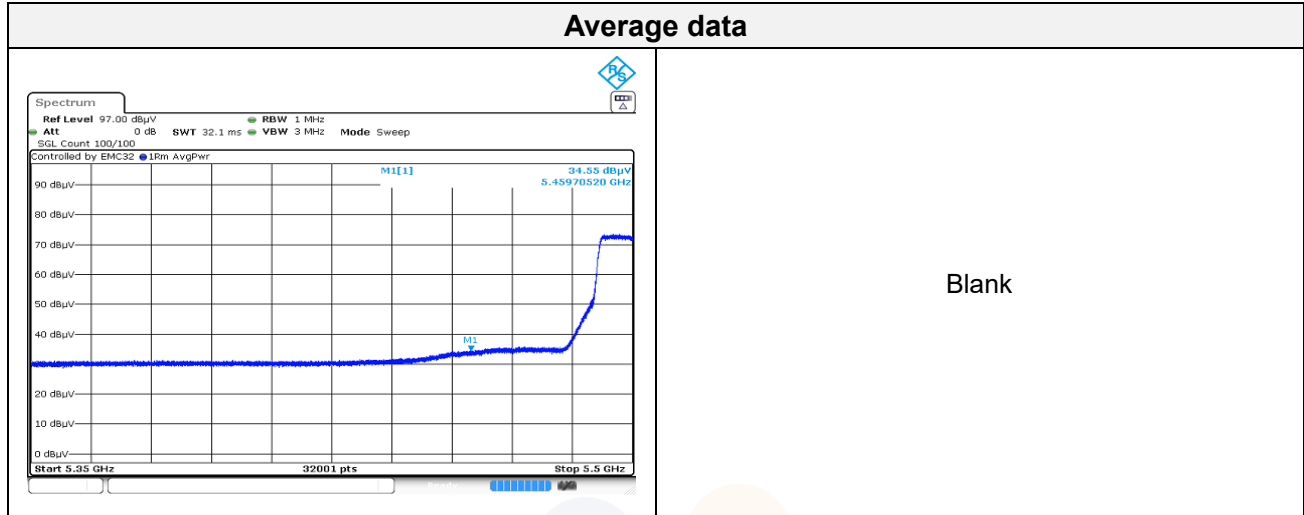
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 459.71 ¹⁾	V	42.73	34.52	-24.41	-	52.84	74.00	21.16
10 923.91 ¹⁾	H	56.70	37.64	-48.14	-	46.20	74.00	27.80
16 536.63	H	52.08	42.66	-44.59	-	50.15	68.20	18.05
Average Data								
5 459.71 ¹⁾	V	34.55	34.52	-24.41	0.45	45.11	54.00	8.89

Highest Channel (5 610 MHz)

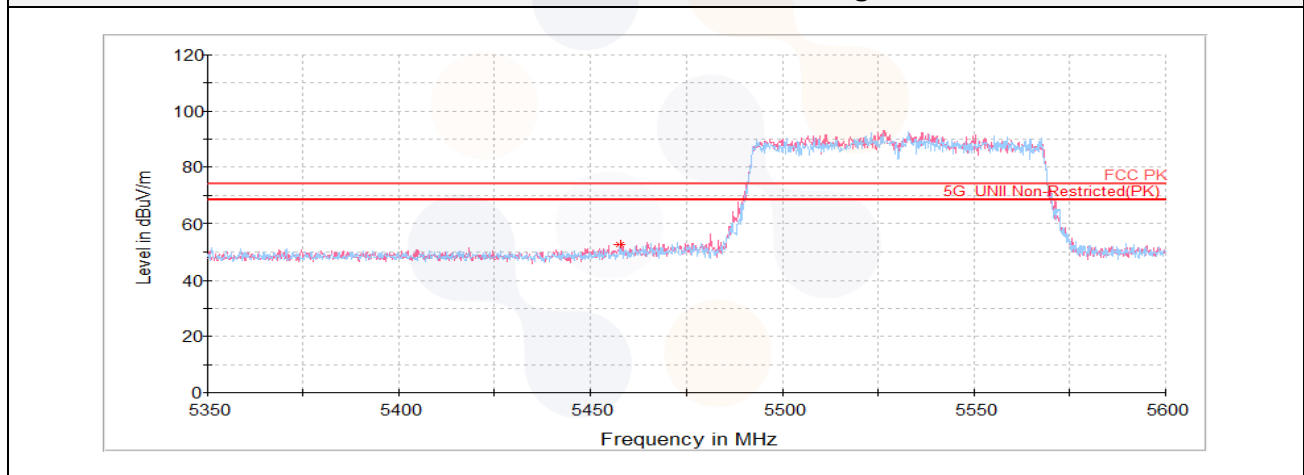
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 725.36	V	39.74	34.87	-24.10	-	50.51	68.20	17.69
11 170.08 ¹⁾	H	56.83	37.84	-48.08	-	46.59	74.00	27.41
16 840.30	H	52.06	43.14	-44.61	-	50.59	68.20	17.61
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

802.11ac VHT80 UNII-2C ANT1

Lowest Channel (5 530 MHz)



Horizontal/Vertical for Band-edge



Highest Channel (5 610 MHz)

