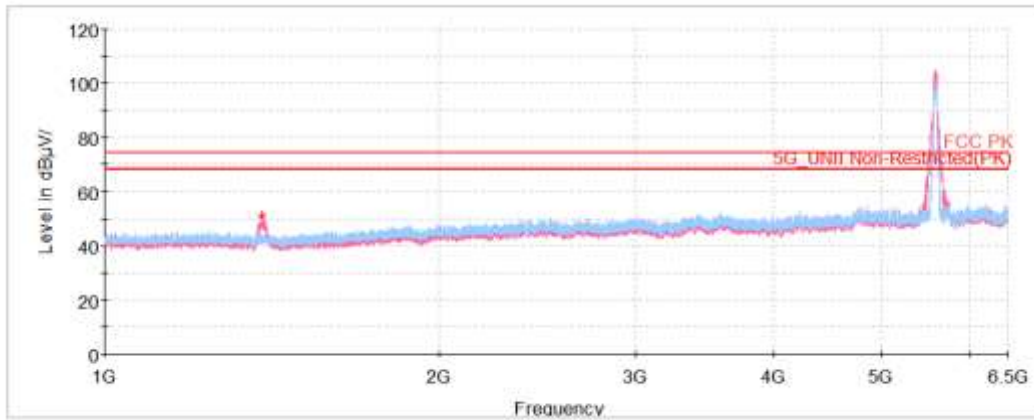
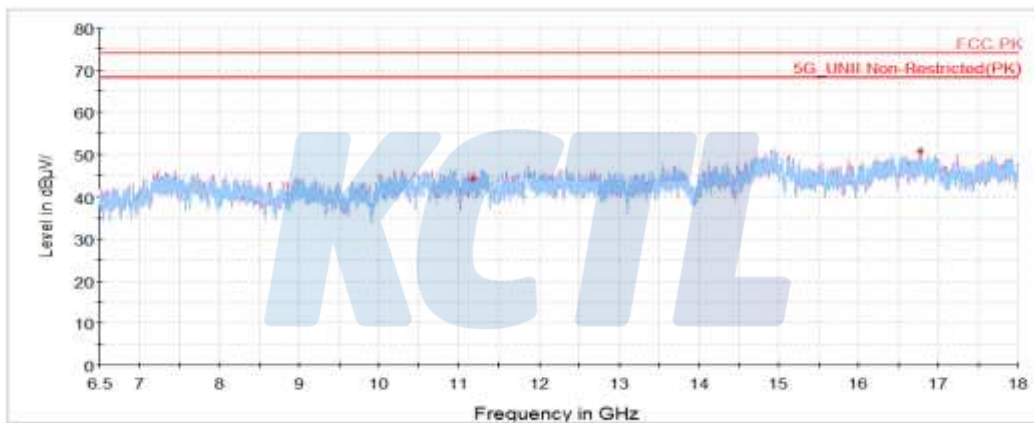
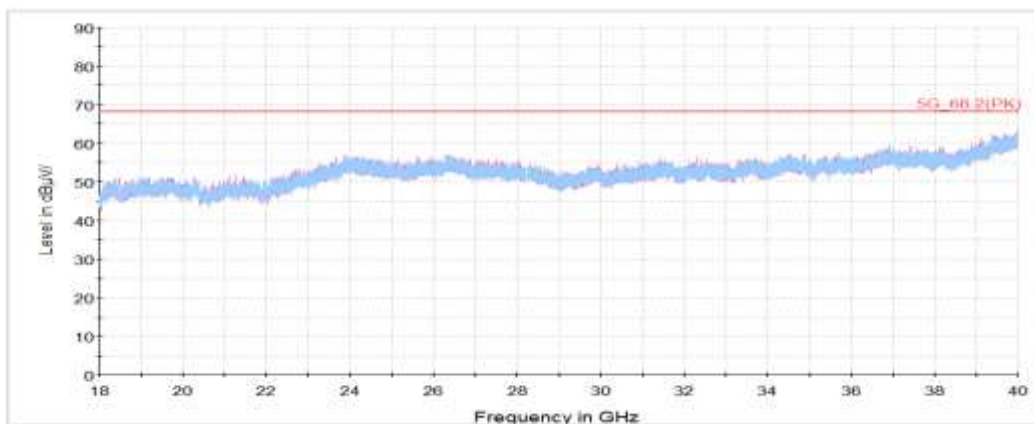


Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

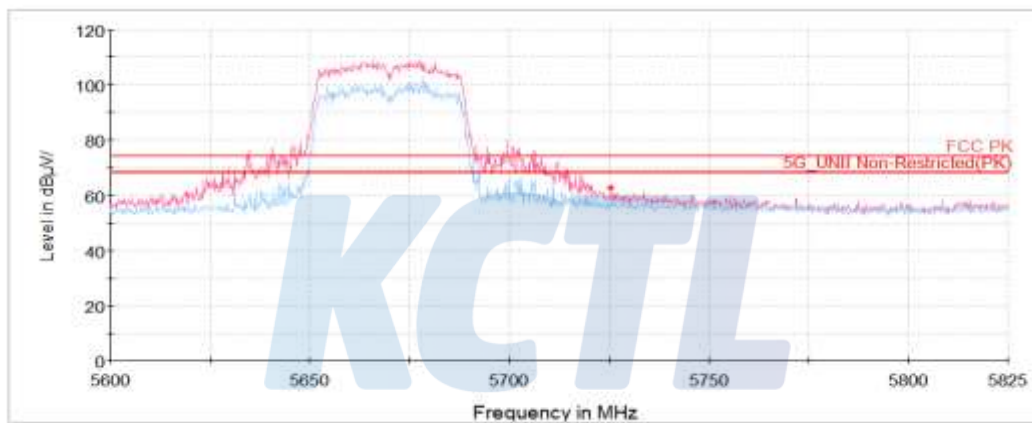
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

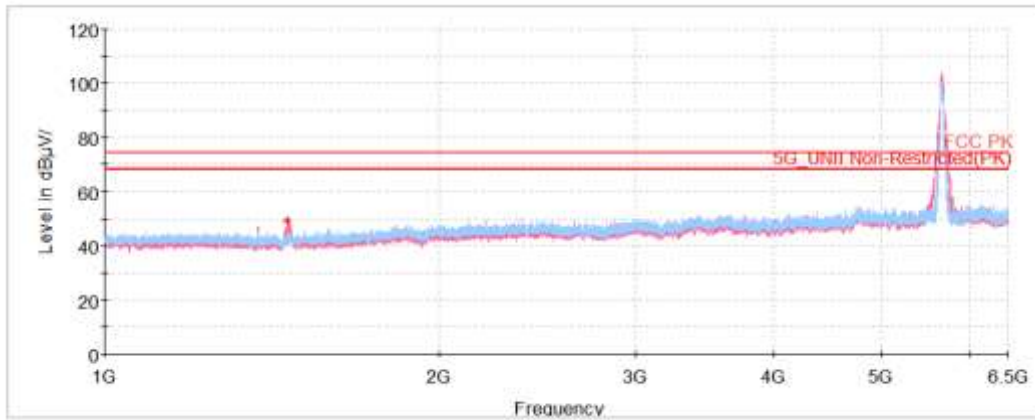
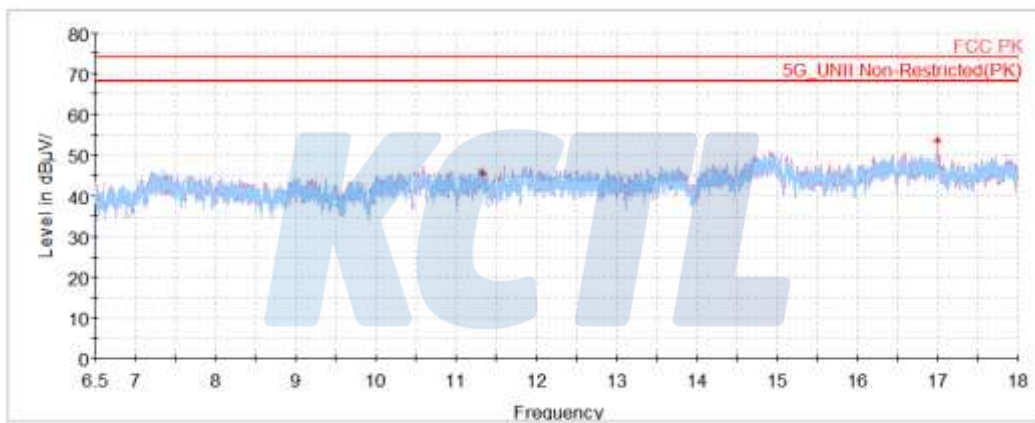
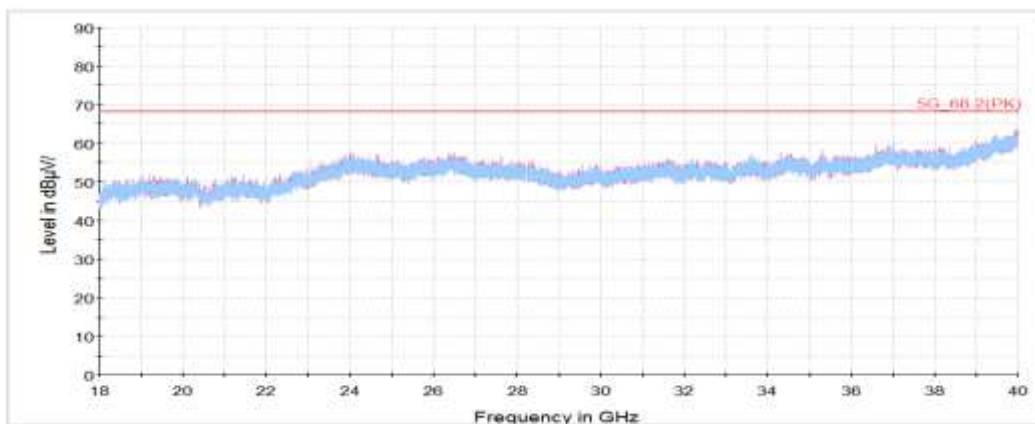
Report No.:
KR20-SRF0030-D

Page (862) of (1046)

**Highest Channel (5 670 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 725.36	V	53.39	35.07	-25.92	-	62.54	68.20	5.66
11 337.55	H	57.72	37.90	-50.28	-	45.34	74.00	28.66
17 004.17	V	59.16	41.30	-46.92	-	53.54	74.00	20.46
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

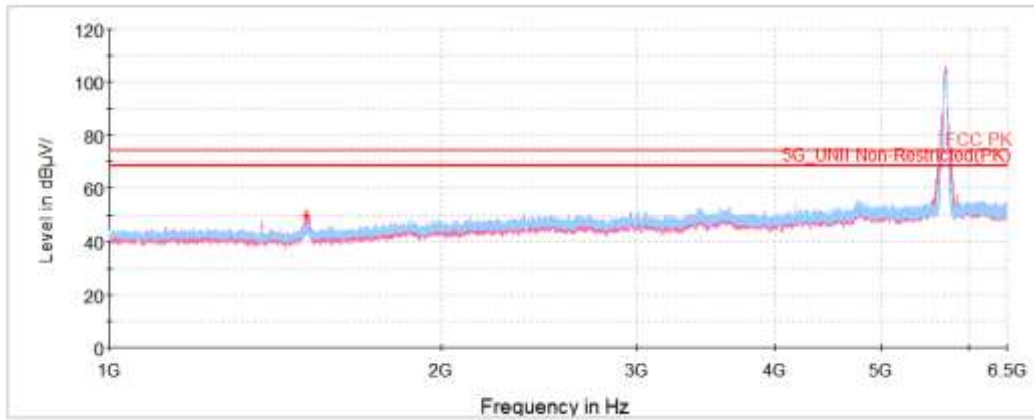
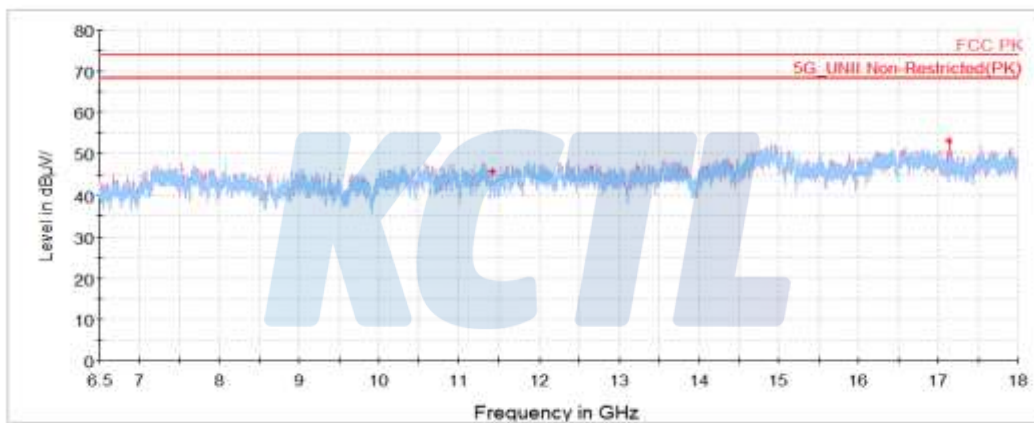
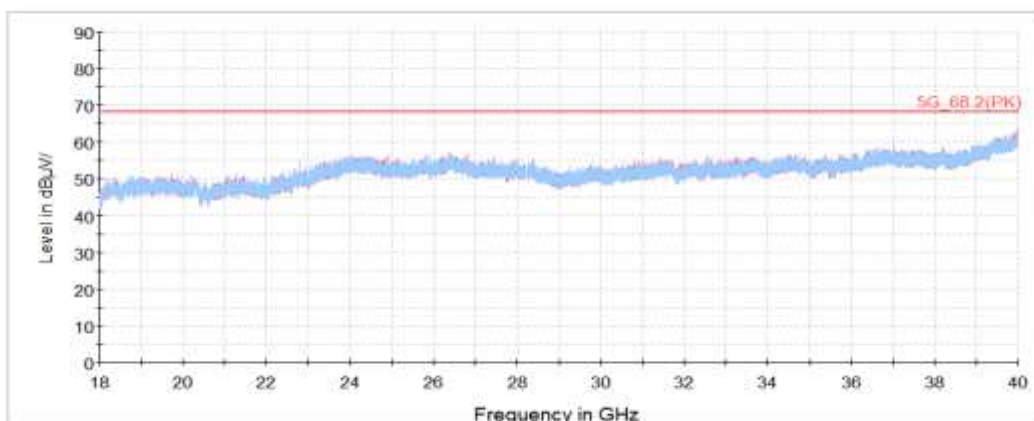
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Straddle Channel (5 710 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 421.64 ¹⁾	H	57.79	37.95	-50.16	-	45.58	74.00	28.42
17 140.02	V	59.35	41.24	-47.39	-	53.20	68.20	15.00
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

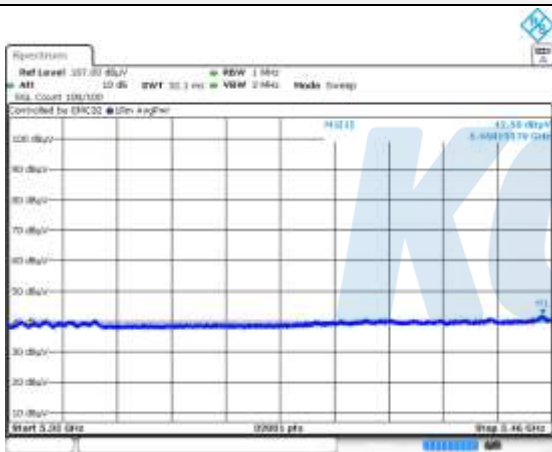
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

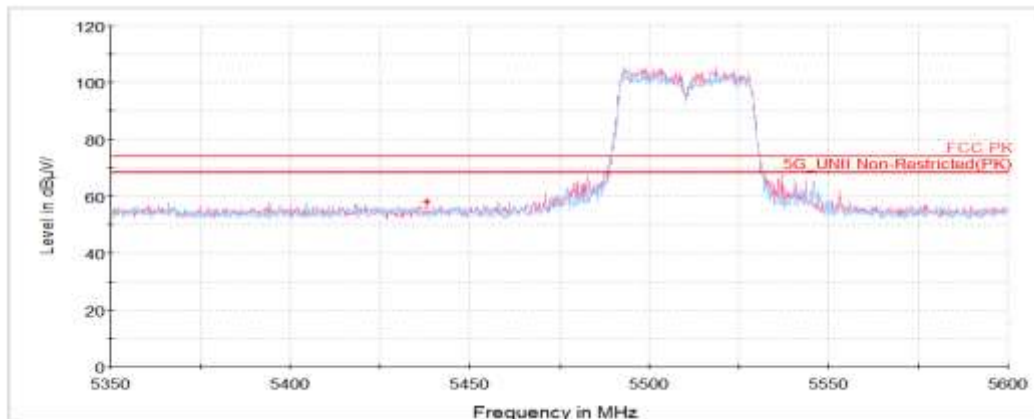
Page (866) of (1046)

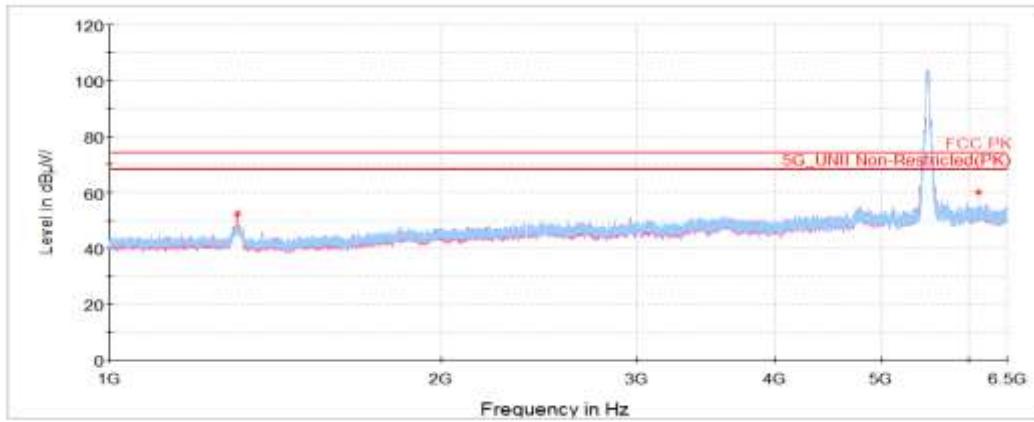
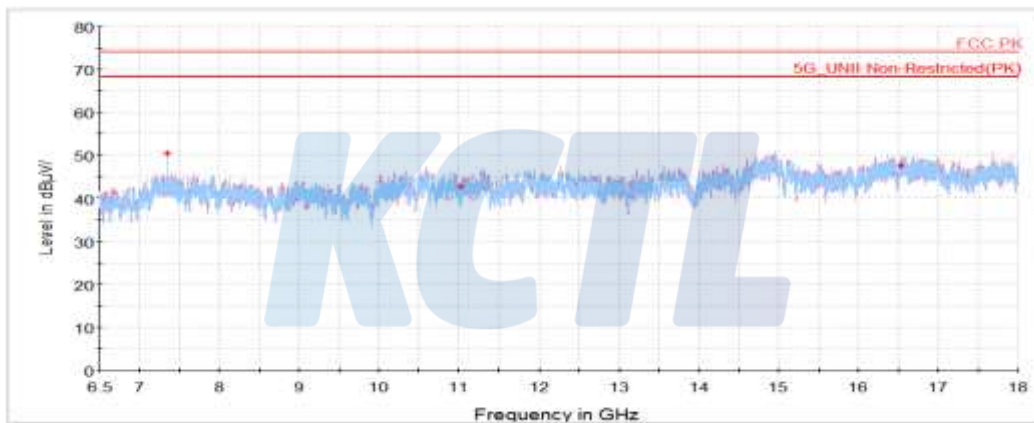
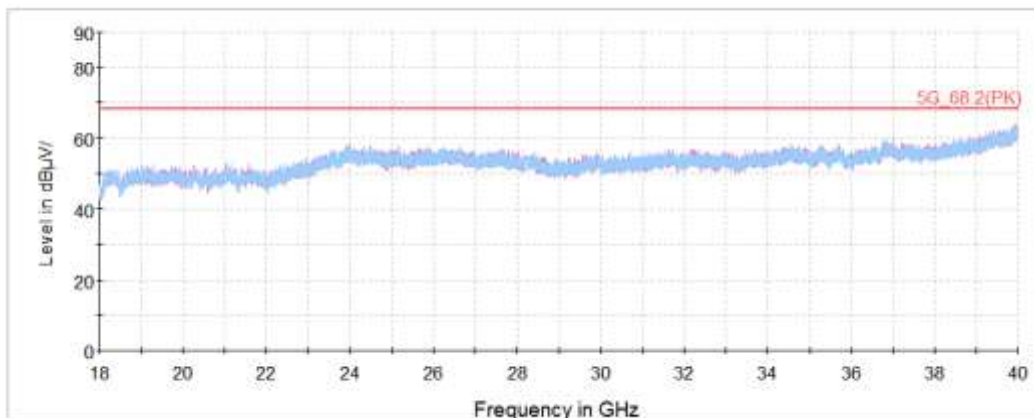
**802.11ac VHT40 UNII 2C 4TX MIMO****Lowest Channel (5 510 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 458.19 ¹⁾	V	50.38	34.73	-27.33	-	57.78	74.00	16.22
6 122.22	V	69.13	35.40	-44.85	-	59.68	68.20	8.52
11 032.80 ¹⁾	V	55.71	37.72	-50.71	-	42.72	74.00	31.28
16 536.63	H	52.75	41.54	-46.77	-	47.52	68.20	20.68
Average Data								
5 458.19 ¹⁾	V	42.50	34.73	-27.33	0.13	50.03	54.00	3.97

Average data (5 458.19 MHz)

Blank

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

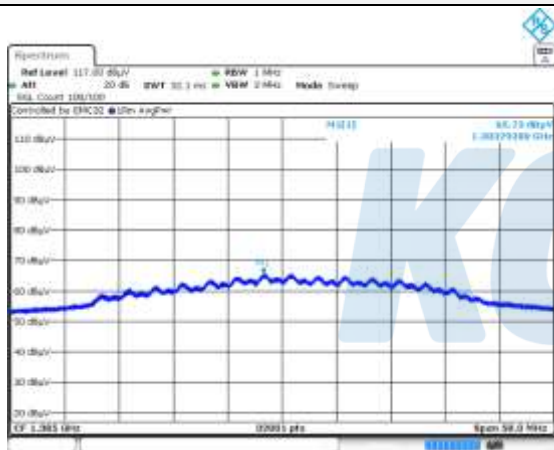
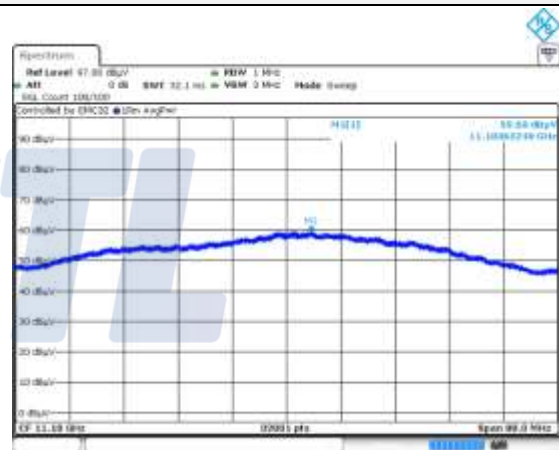
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

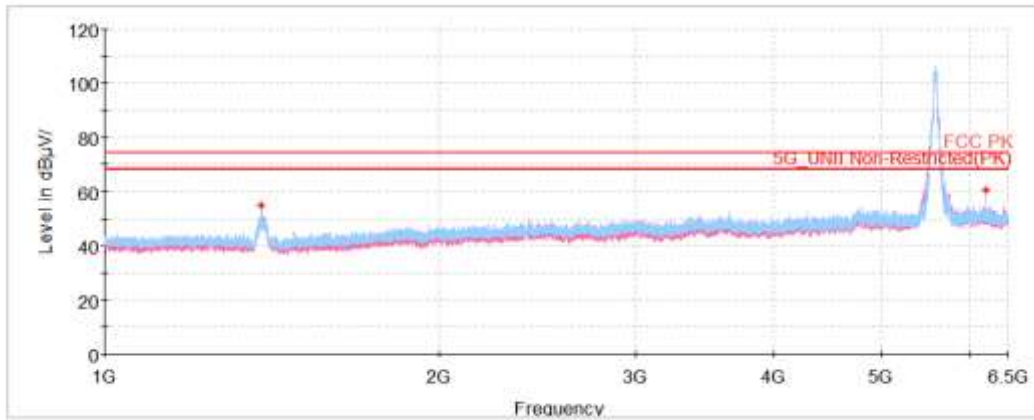
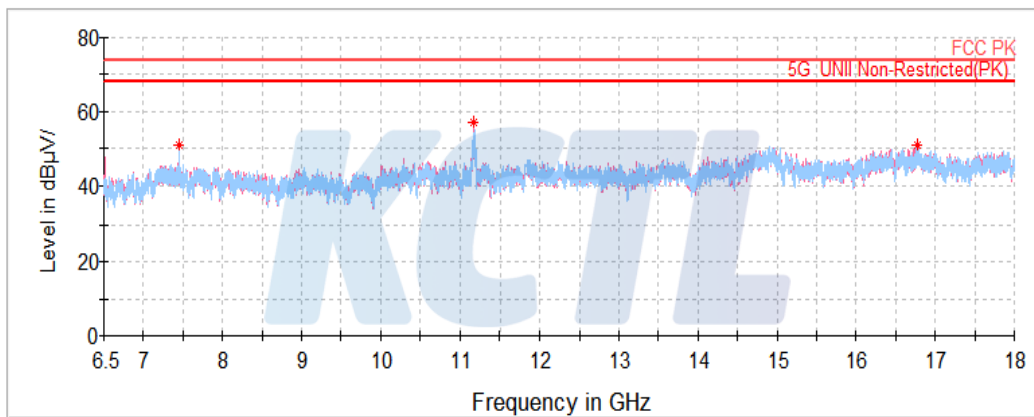
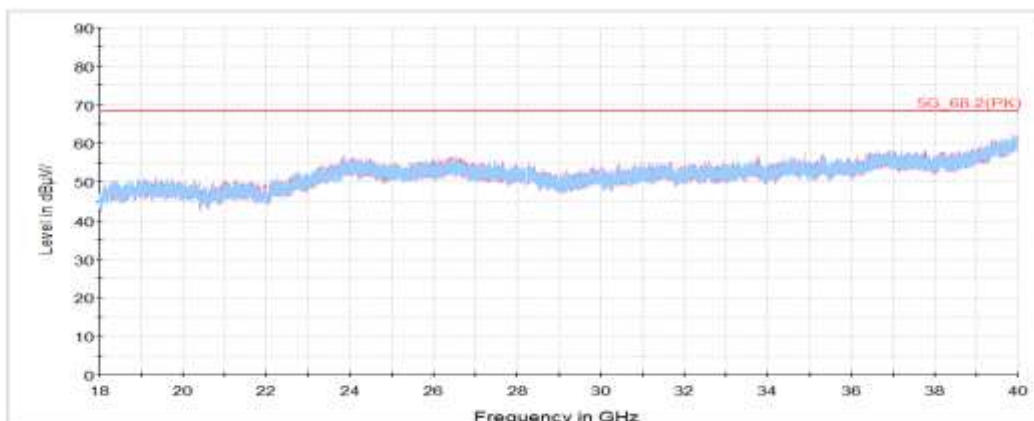
Report No.:
KR20-SRF0030-D

Page (868) of (1046)

**Middle Channel (5 590 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 383.29 ¹⁾	V	77.28	27.95	-50.35	-	54.88	74.00	19.12
6 211.25	V	69.64	35.40	-44.83	-	60.21	68.20	7.99
11 183.65 ¹⁾	V	69.92	37.81	-50.50	-	57.23	74.00	16.77
16 778.84	V	56.10	41.78	-46.84	-	51.04	68.20	17.16
Average Data								
1 383.29 ¹⁾	V	65.73	27.95	-50.35	0.13	43.46	54.00	10.54
11 183.65 ¹⁾	V	59.60	37.81	-50.50	0.13	47.04	54.00	6.96

Average data (1 383.29 MHz)**Average data (11 183.65 MHz)**

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

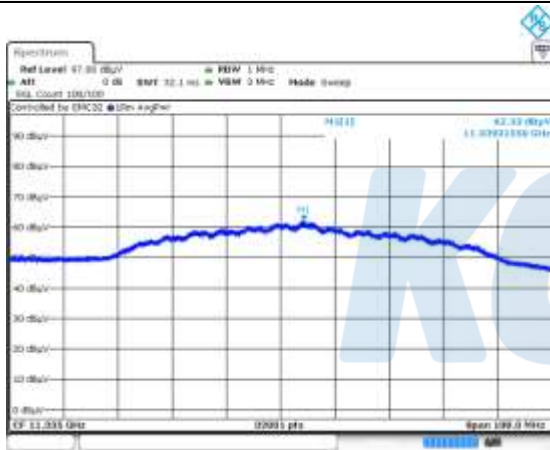
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

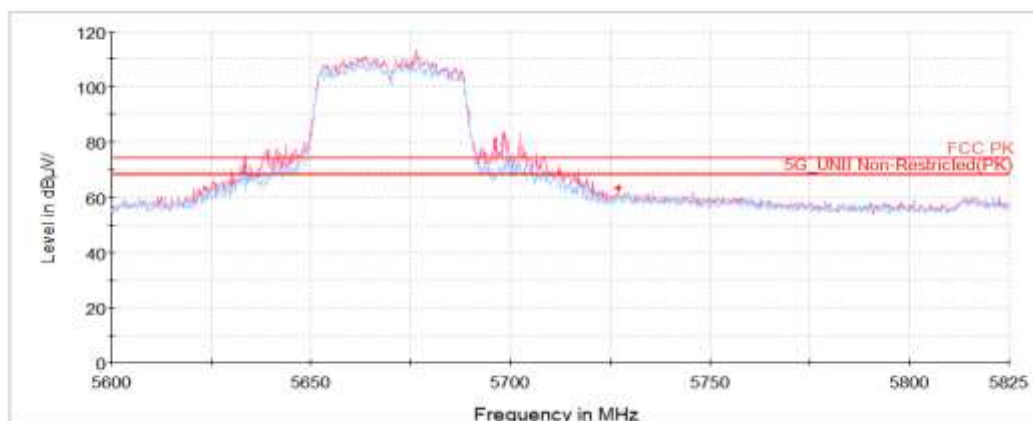
Page (870) of (1046)

**Highest Channel (5 670 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 726.91	V	54.04	35.07	-25.94	-	63.17	68.20	5.03
6 300.28	V	69.69	35.40	-44.80	-	60.29	68.20	7.91
11 339.32 ¹⁾	V	71.63	37.90	-50.28	-	59.25	74.00	14.75
17 003.81	V	62.27	41.30	-46.92	-	56.65	68.20	11.55
Average Data								
11 339.32 ¹⁾	V	62.33	37.90	-50.28	0.13	50.08	54.00	3.92

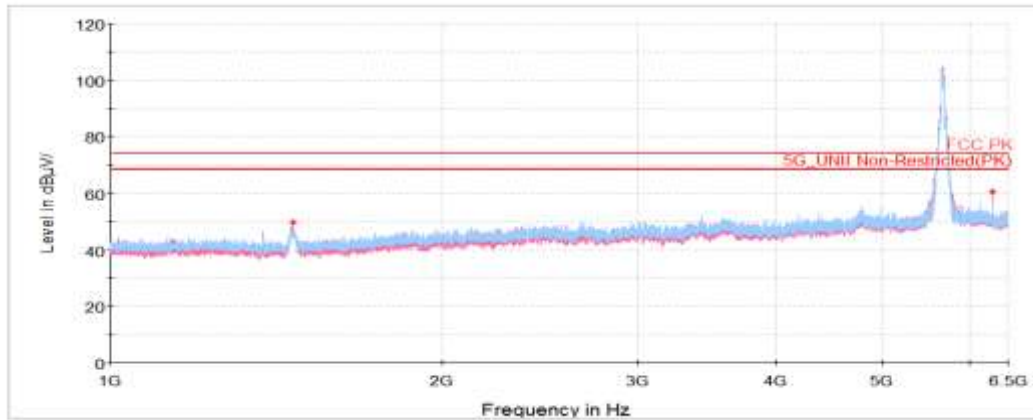
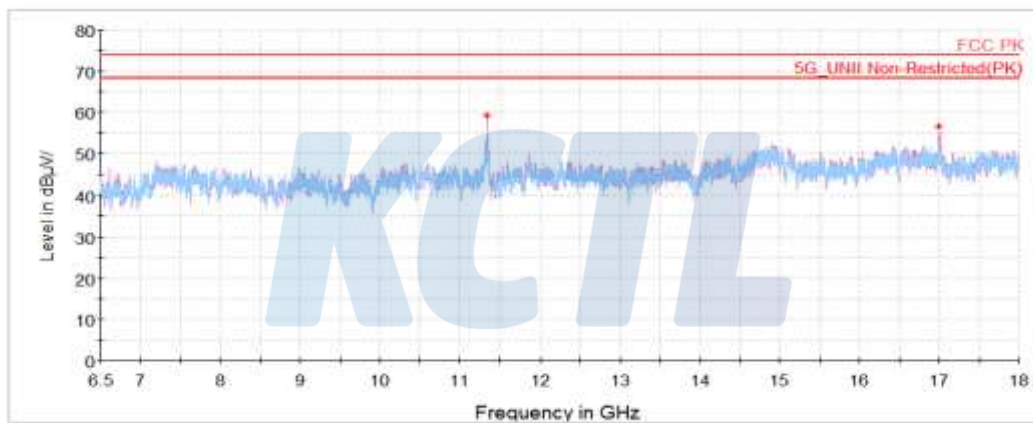
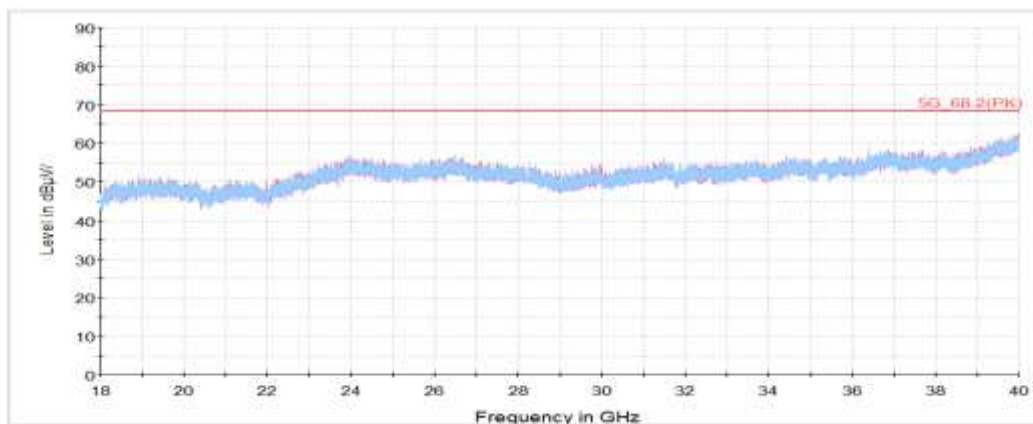
Average data (11 339.32 MHz)

Blank

Horizontal/Vertical for Band-edge

This test report shall not be reproduced, except in full, without the written approval

KCTL-TIR001-003/2

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

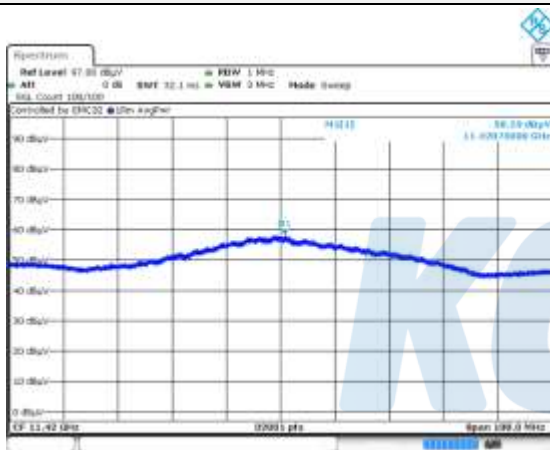
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

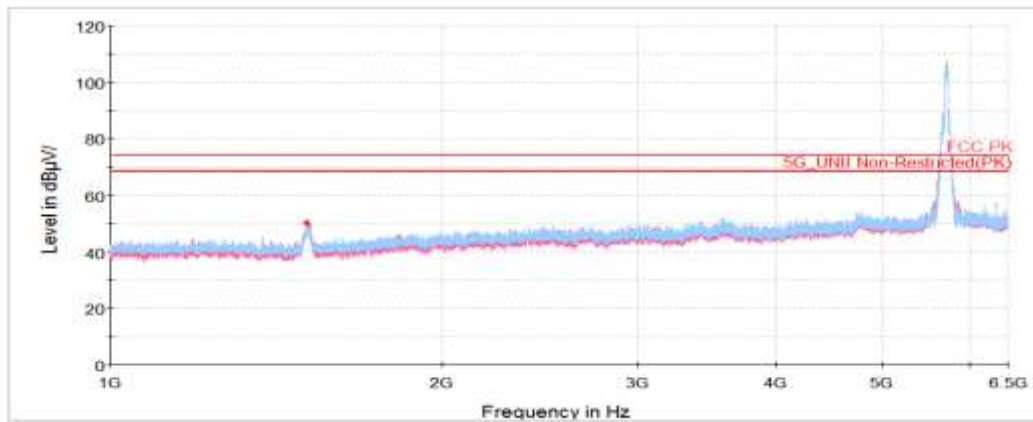
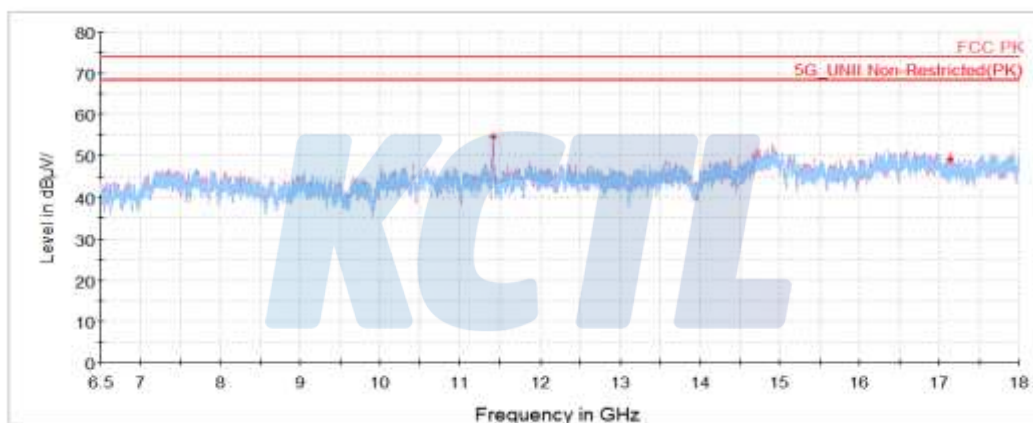
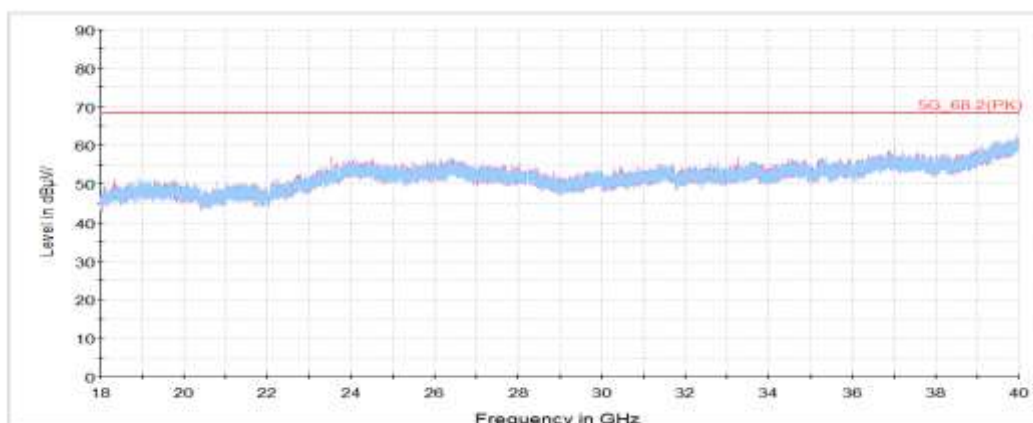
Page (872) of (1046)

**Straddle Channel (5 710 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 505.48	V	72.38	28.03	-50.02	-	50.39	74.00	23.61
11 420.75 ¹⁾	V	66.79	37.95	-50.16	-	54.58	74.00	19.42
17 136.06	V	55.27	41.25	-47.38	-	49.14	68.20	19.06
Average Data								
11 420.75 ¹⁾	V	58.29	37.95	-50.16	0.13	46.21	54.00	7.79

Average data (11 420.75 MHz)

Blank

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

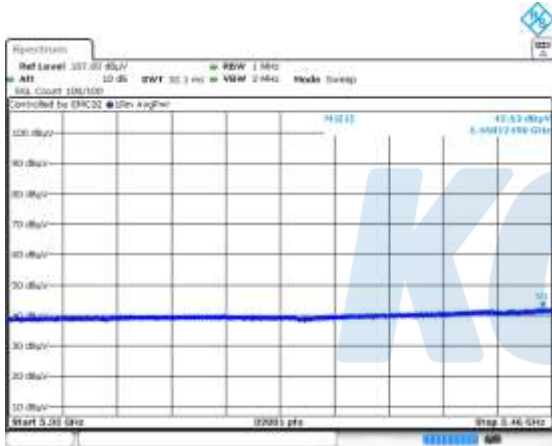
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

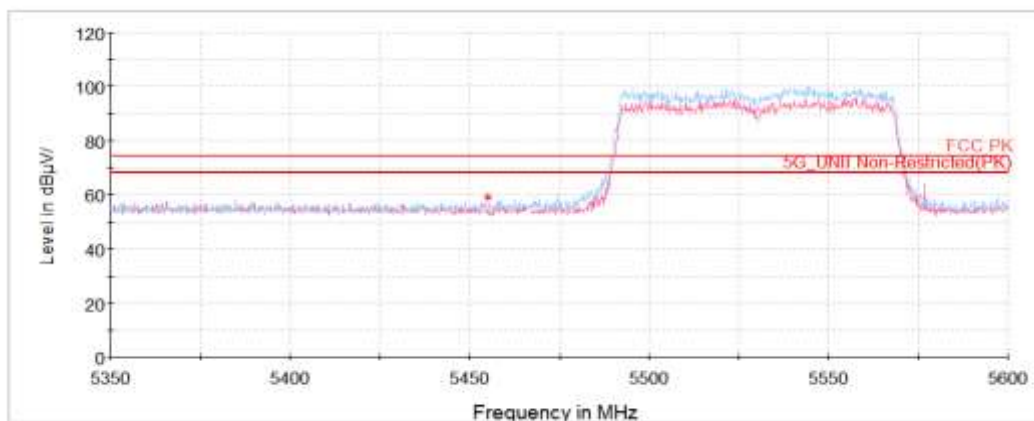
Page (874) of (1046)

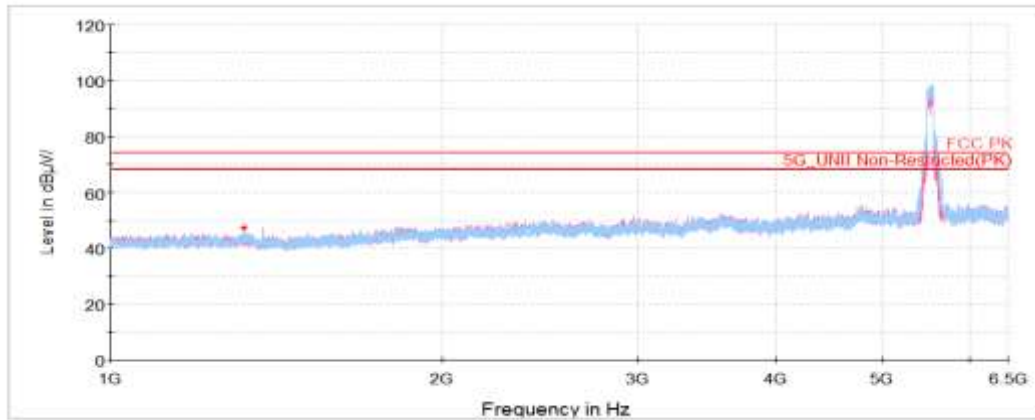
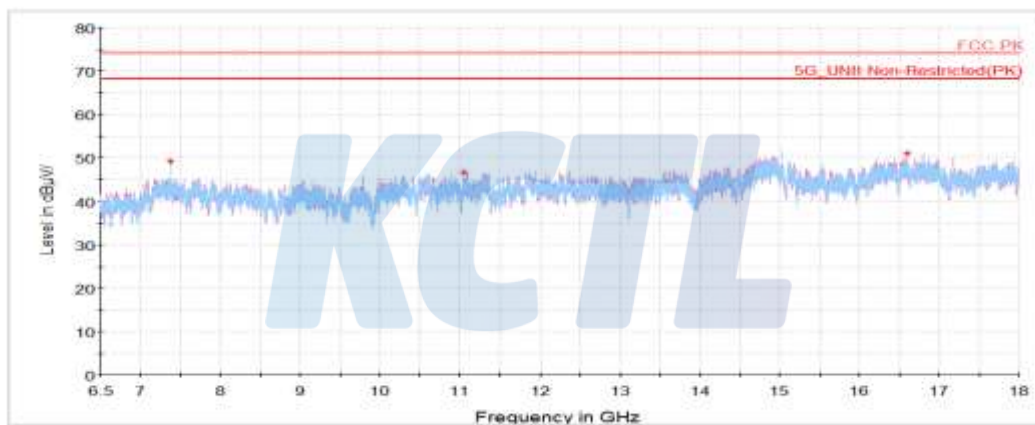
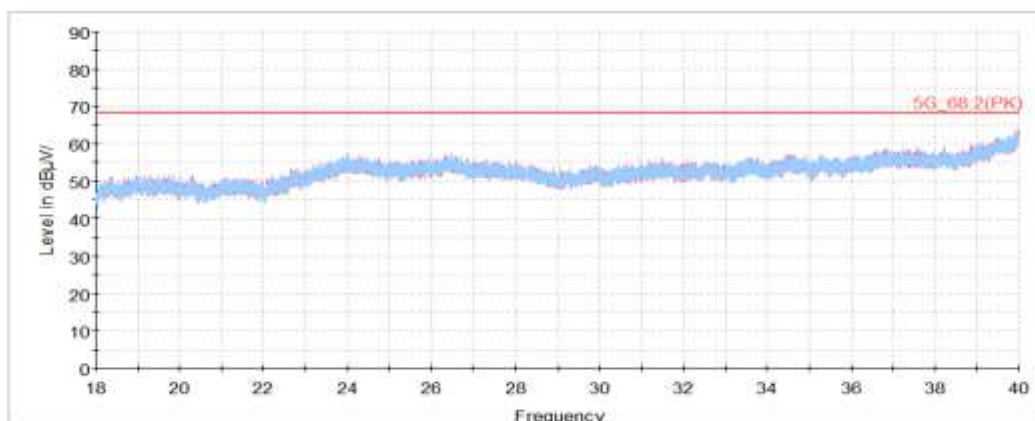
**802.11ac VHT80 UNII 2C ANT 0****Lowest Channel (5 530 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 458.12 ¹⁾	H	51.29	34.73	-27.33	-	58.69	74.00	15.31
11 057.23 ¹⁾	V	59.57	37.73	-50.67	-	46.63	74.00	27.37
16 600.95	H	56.10	41.60	-46.79	-	50.91	68.20	17.29
Average Data								
5 458.12 ¹⁾	H	42.63	34.73	-27.33	0.27	50.30	54.00	3.70

Average data (5 458.12 MHz)

Blank

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

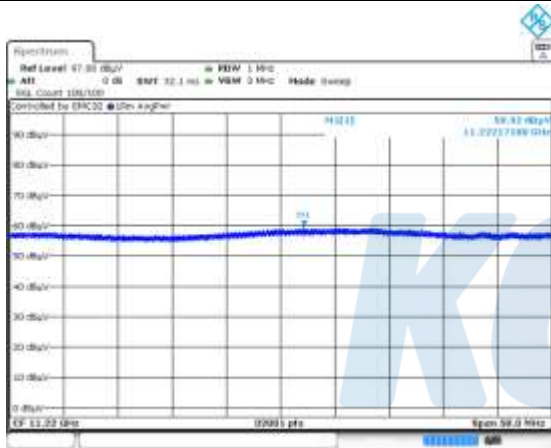
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

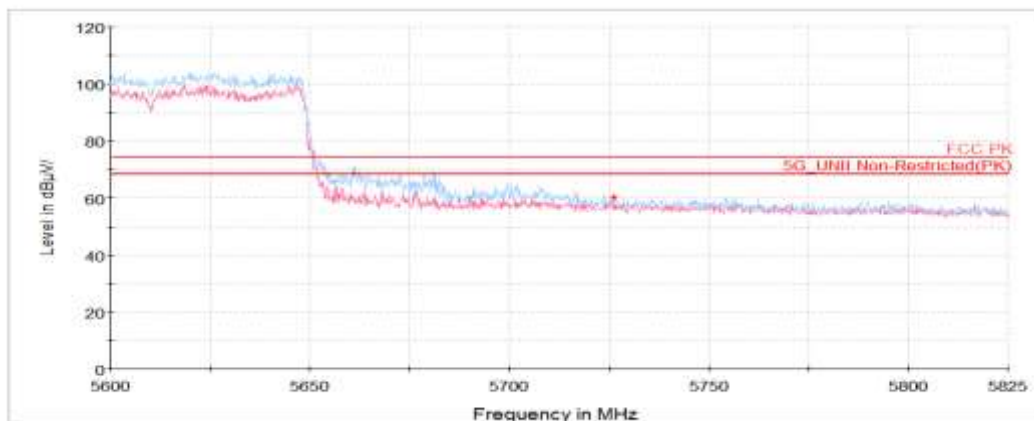
Page (876) of (1046)

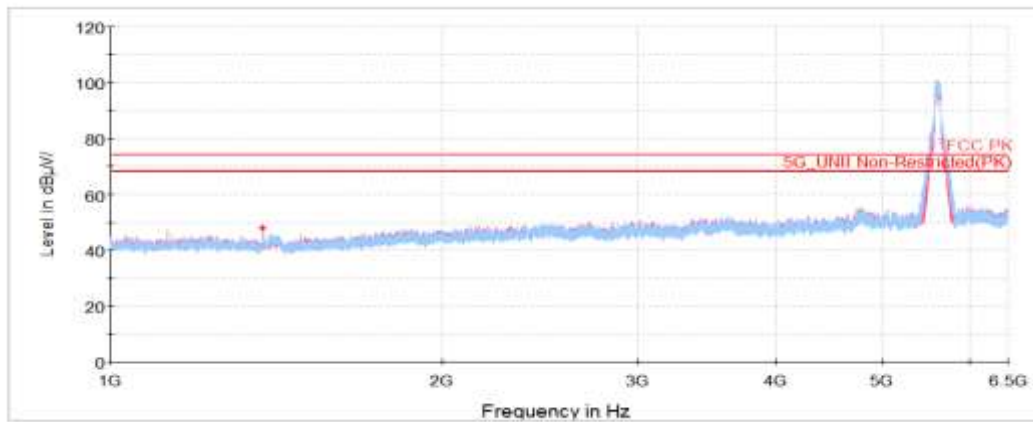
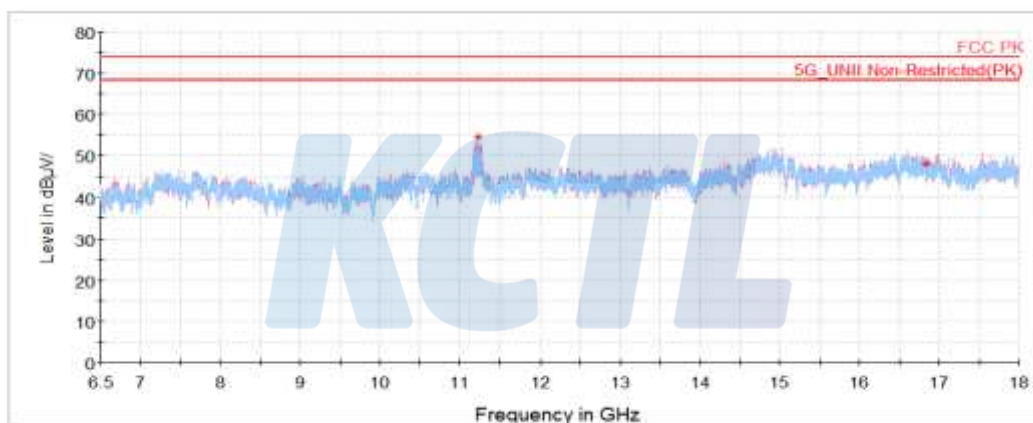
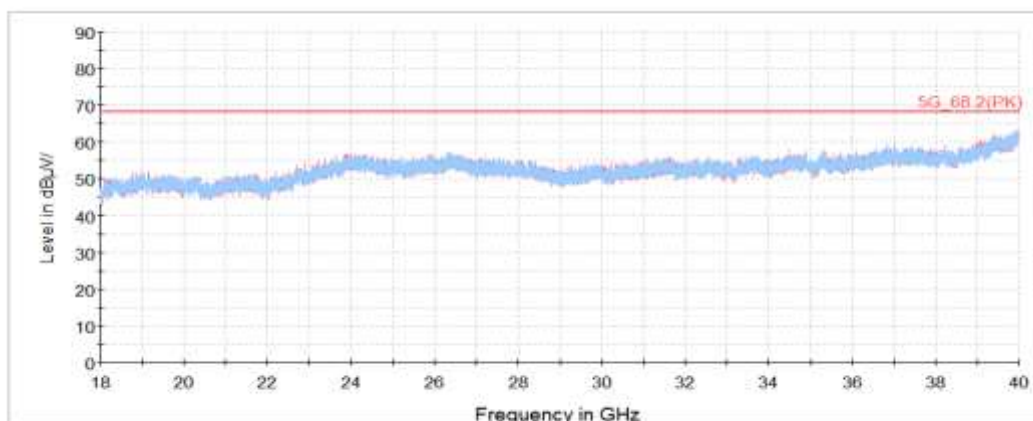
**Highest Channel (5 610 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 726.05	H	50.98	35.07	-25.93	-	60.12	68.20	8.08
11 222.17 ¹⁾	V	67.17	37.83	-50.44	-	54.56	74.00	19.44
16 831.31	V	52.94	41.83	-46.86	-	47.91	68.20	20.29
Average Data								
11 222.17 ¹⁾	V	59.92	37.83	-50.44	0.27	47.58	54.00	6.42

Average data (11 222.17 MHz)

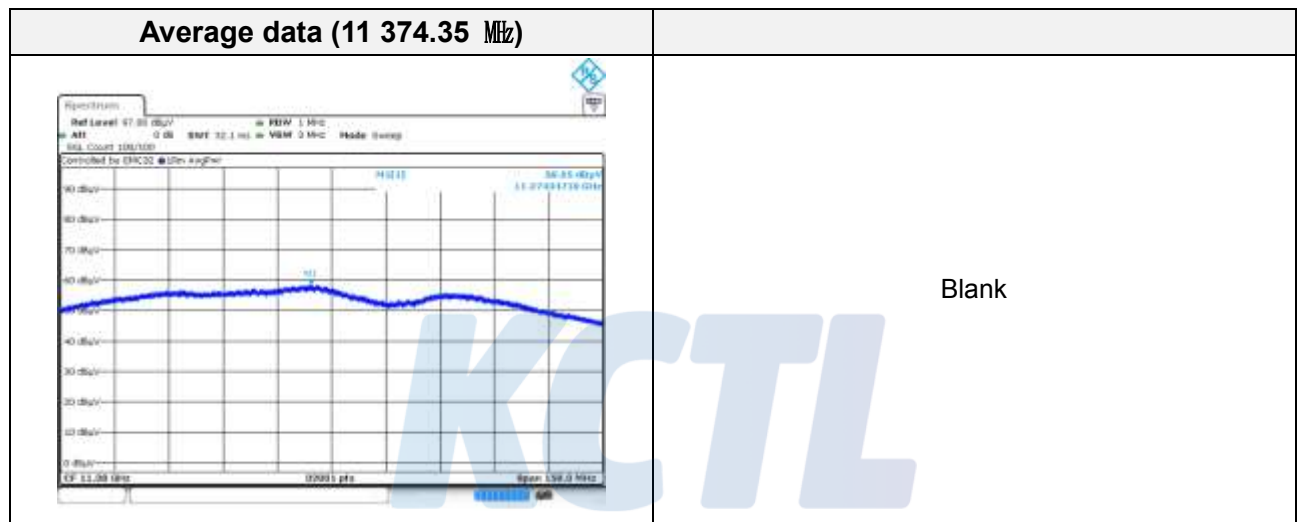
Blank

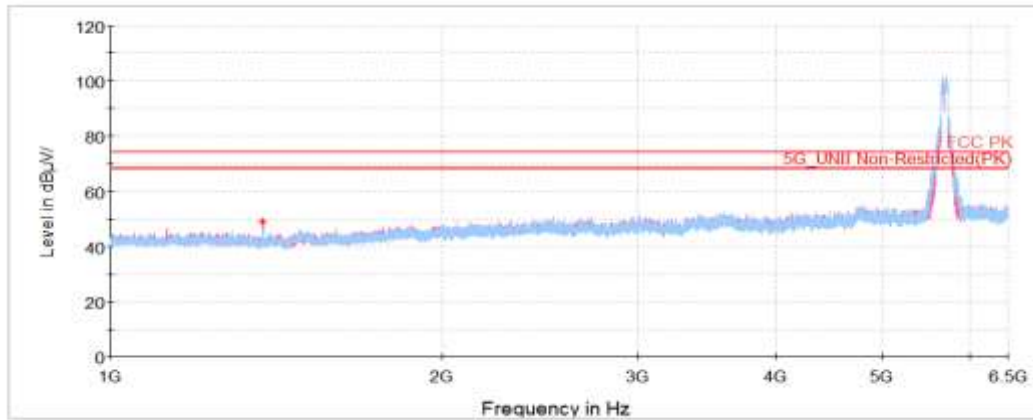
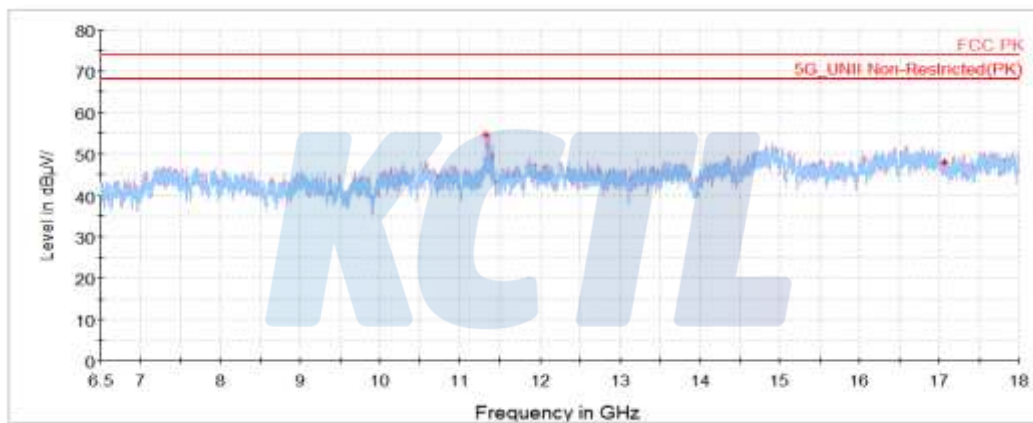
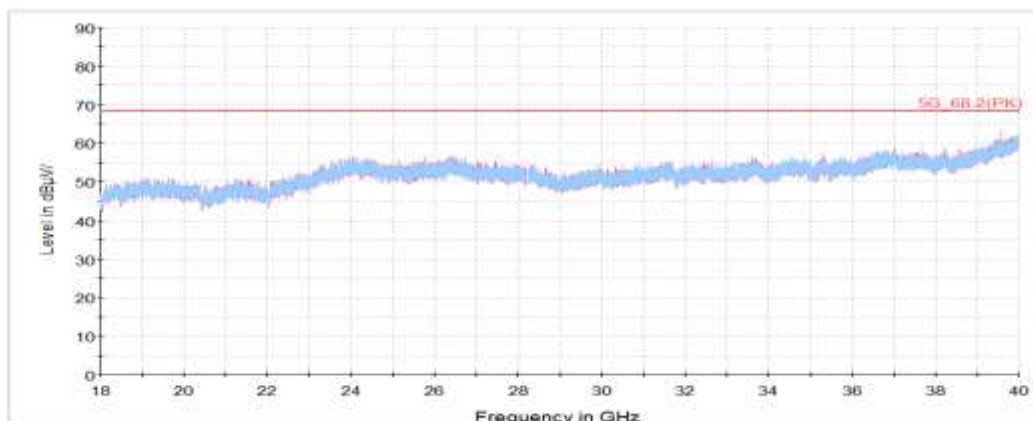
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Straddle Channel (5 690 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 374.35 ¹⁾	V	66.83	37.92	-50.23	-	54.52	74.00	19.48
17 071.02	H	53.72	41.27	-47.15	-	47.84	68.20	20.36
Average Data								
11 374.35 ¹⁾	V	58.65	37.92	-50.23	0.27	46.61	54.00	7.39



Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

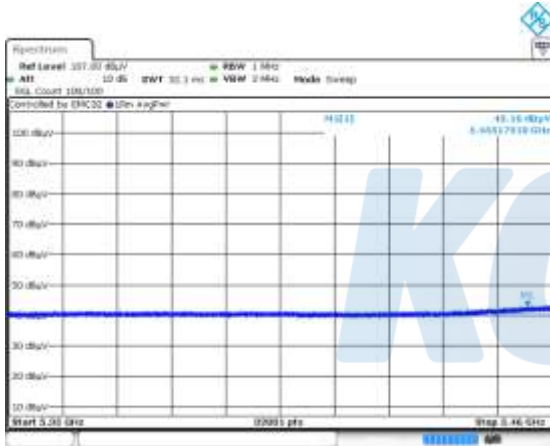
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

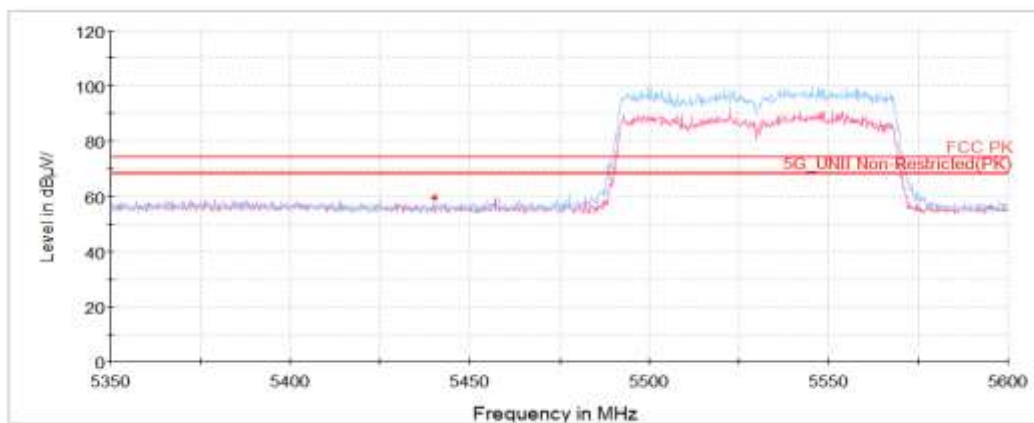
Page (880) of (1046)

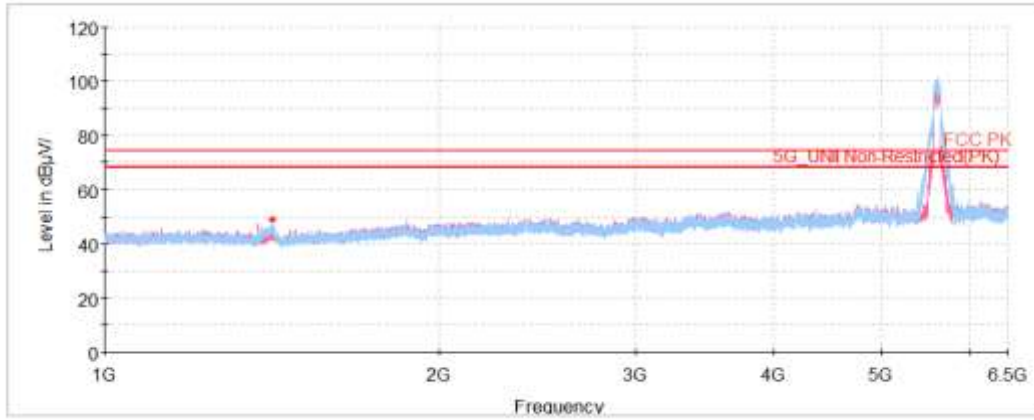
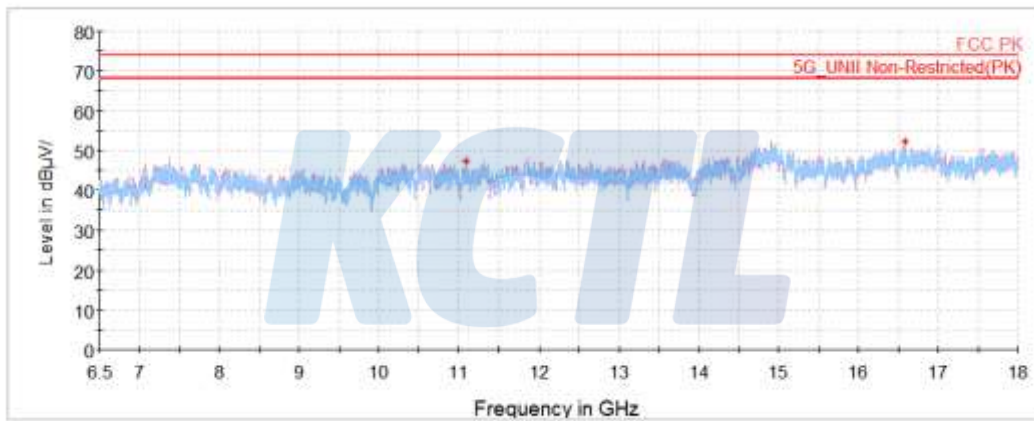
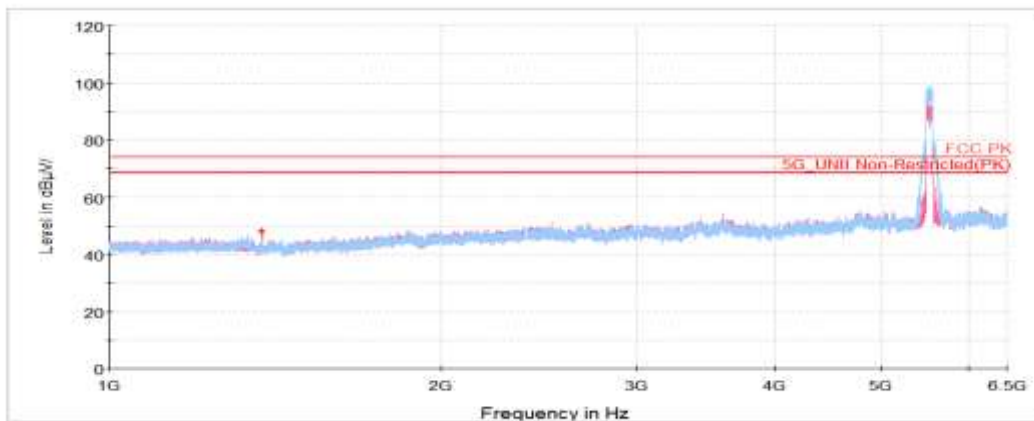
**802.11ac VHT80 UNII 2C ANT 1****Lowest Channel (5 530 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 455.18 ¹⁾	H	49.20	34.73	-27.30	-	56.63	74.00	17.37
11 097.48 ¹⁾	V	59.96	37.76	-50.62	-	47.10	74.00	26.90
16 586.22	H	57.22	41.59	-46.79	-	52.02	68.20	16.18
Average Data								
5 455.18 ¹⁾	H	43.16	34.73	-27.30	0.27	50.86	54.00	3.14

Average data (5 455.18 MHz)

Blank

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

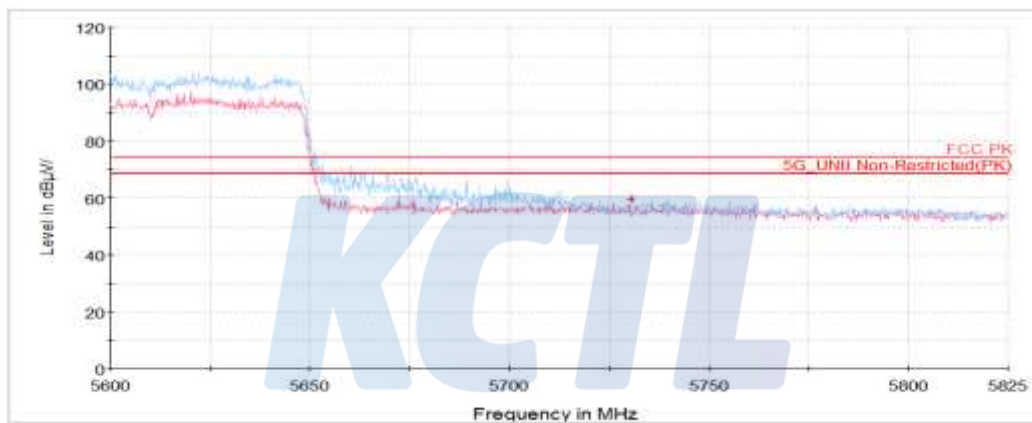
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

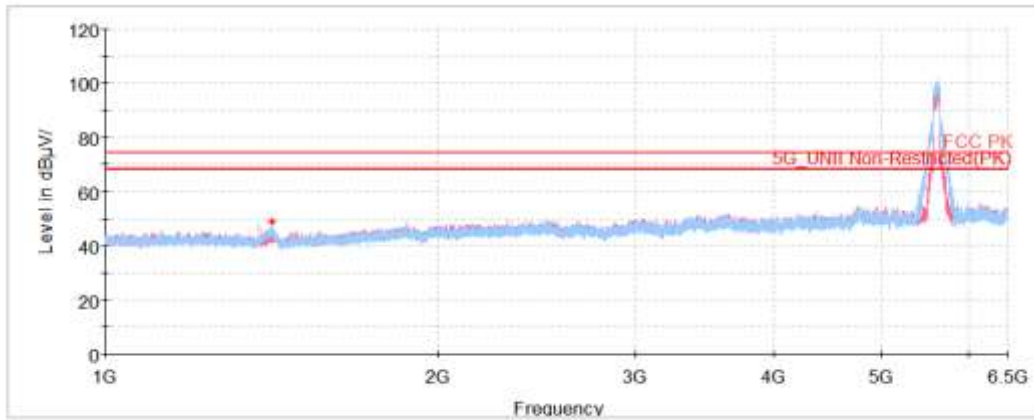
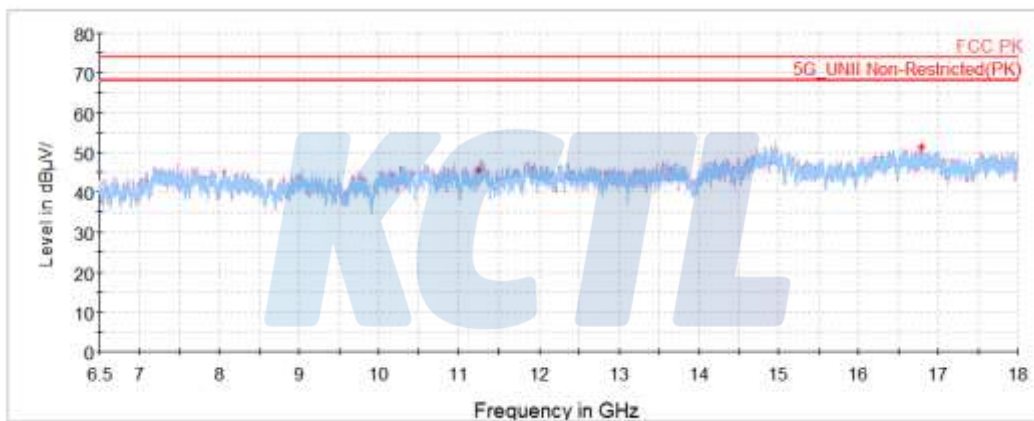
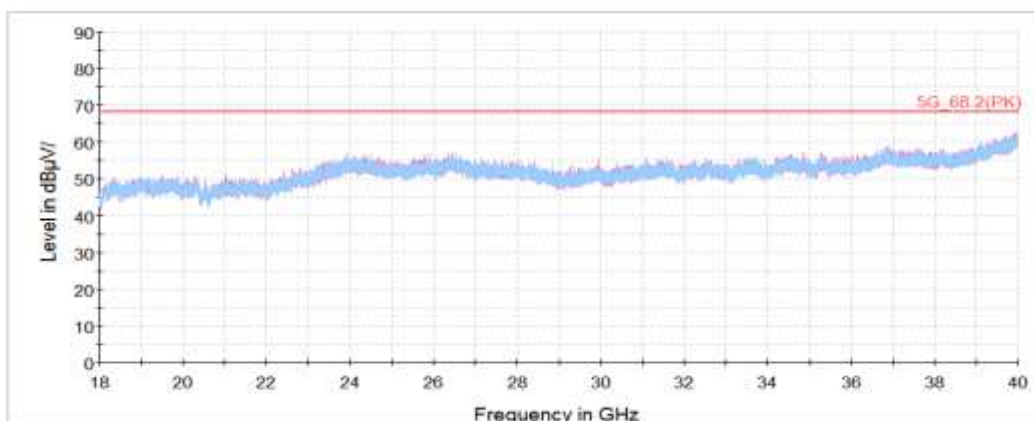
Report No.:
KR20-SRF0030-D

Page (882) of (1046)

KCTL**Highest Channel (5 610 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 730.52	H	50.42	35.08	-26.00	-	59.50	68.20	8.70
11 247.70 ¹⁾	H	57.99	37.85	-50.41	-	45.43	74.00	28.57
16 798.97	V	56.42	41.80	-46.85	-	51.37	68.20	16.83
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

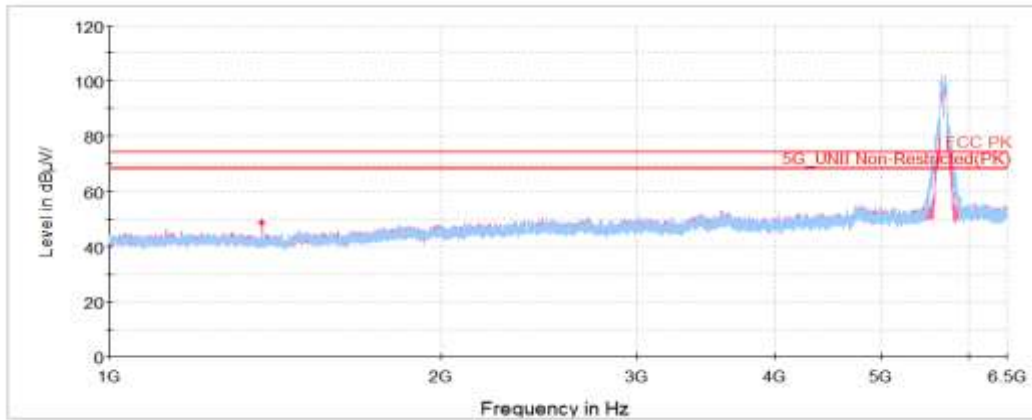
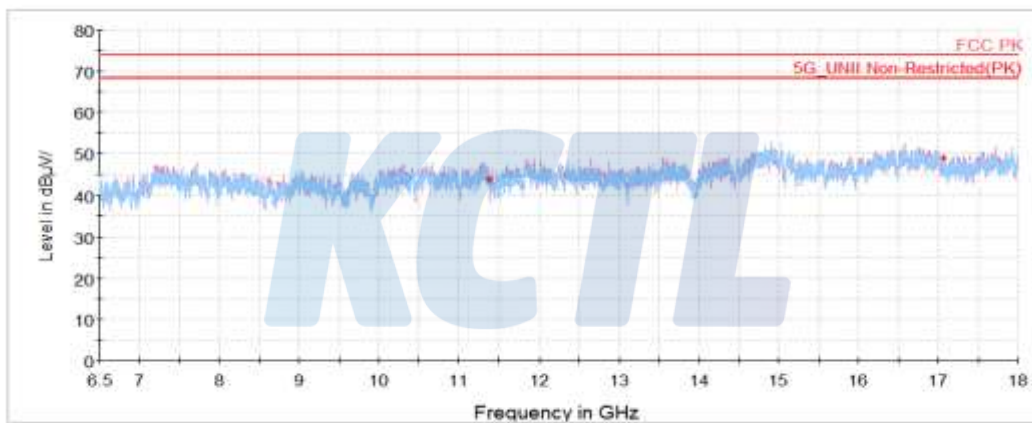
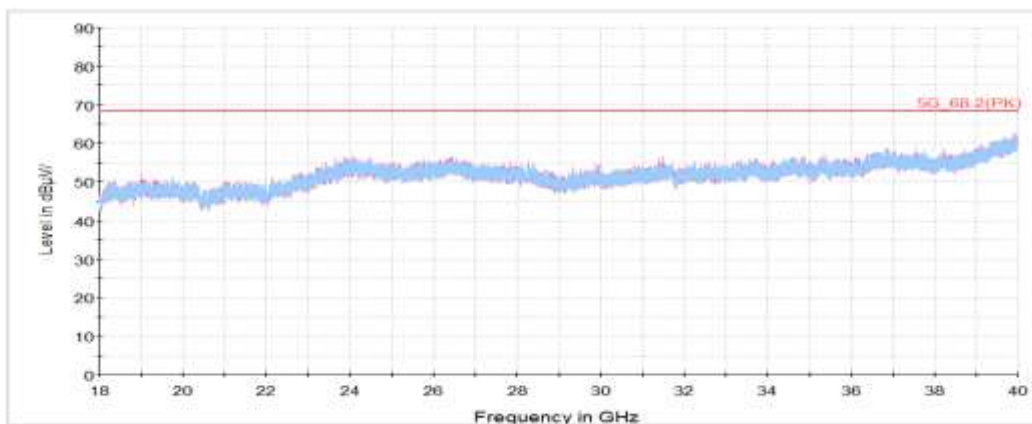
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Straddle Channel (5 690 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 379.59 ¹⁾	H	56.07	37.93	-50.22	-	43.78	74.00	30.22
17 070.66	V	54.78	41.27	-47.15	-	48.90	68.20	19.30
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

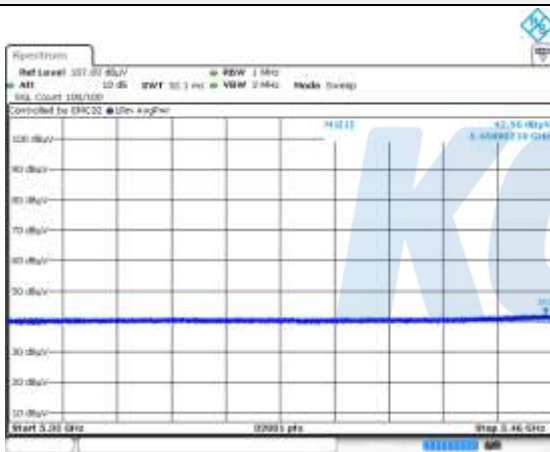
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

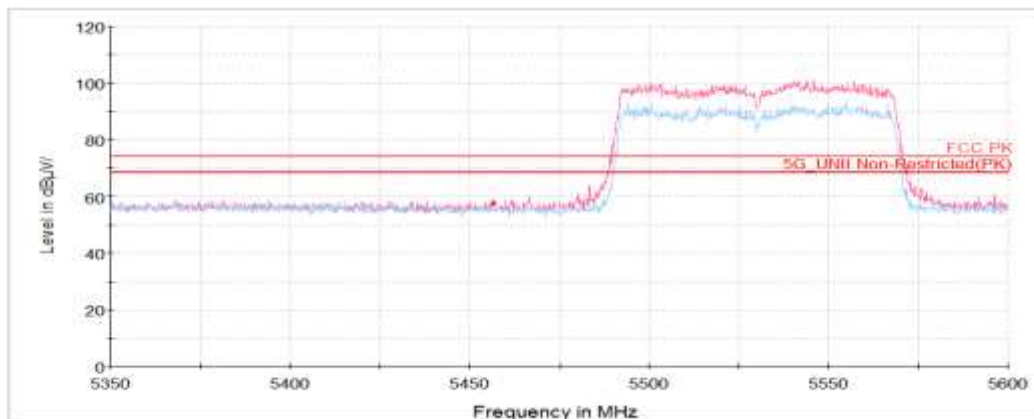
Page (886) of (1046)

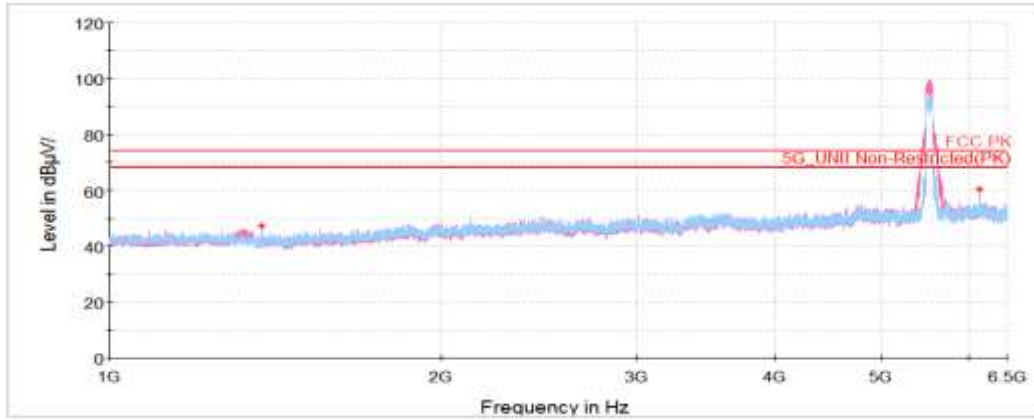
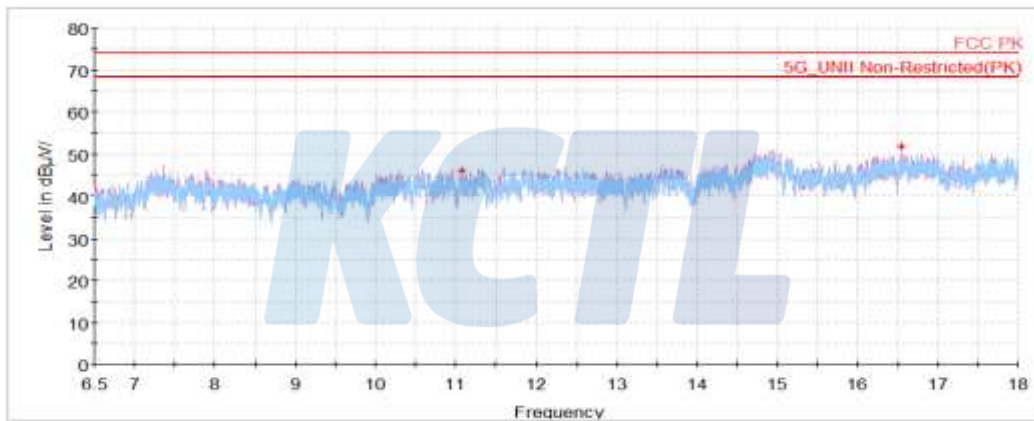
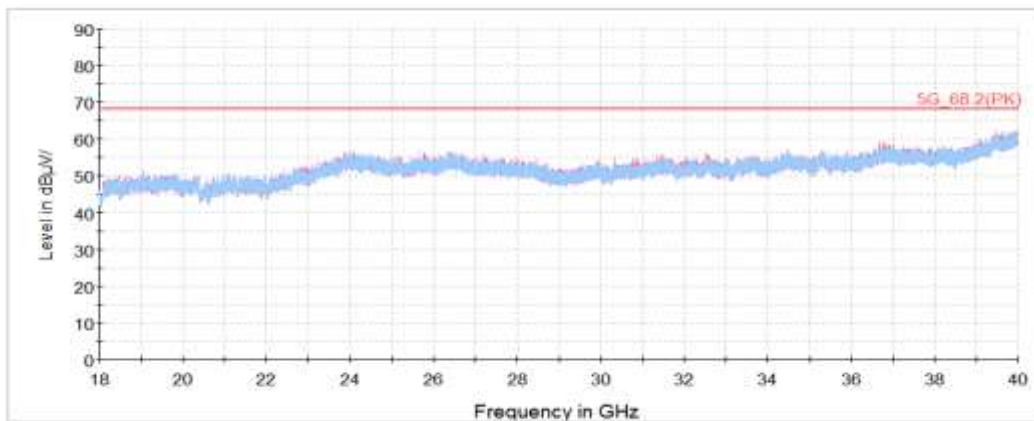
**802.11ac VHT80 UNII 2C ANT 2****Lowest Channel (5 530 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 458.80 ¹⁾	V	50.01	34.73	-27.34	-	57.40	74.00	16.60
6 144.73	V	69.63	35.40	-44.84	-	60.19	68.20	8.01
11 082.75 ¹⁾	V	58.78	37.75	-50.64	-	45.89	74.00	28.11
16 542.38	V	56.89	41.54	-46.78	-	51.65	68.20	16.55
Average Data								
5 458.80 ¹⁾	V	42.56	34.73	-27.34	0.27	50.22	54.00	3.78

Average data (5 458.80 MHz)

Blank

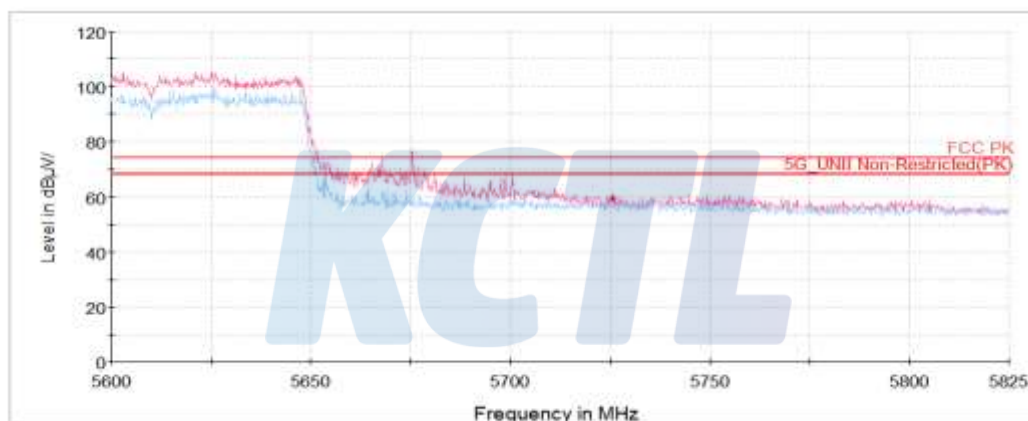
Horizontal/Vertical for Band-edge

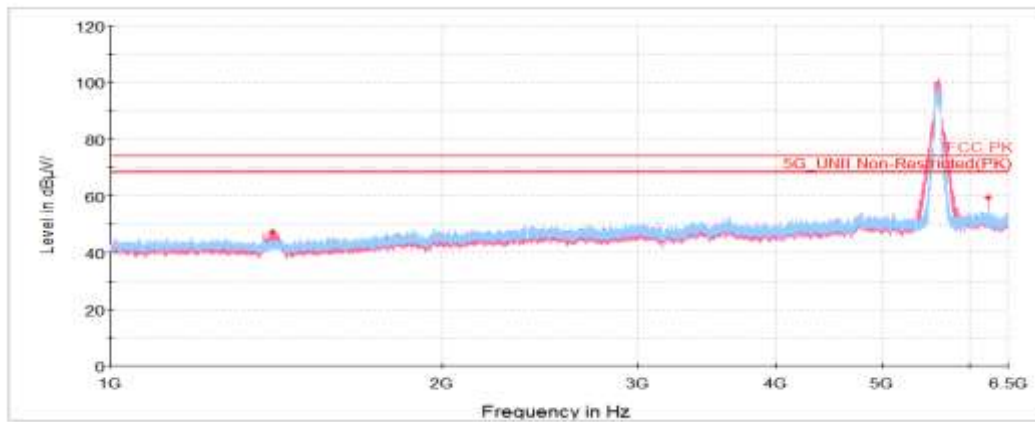
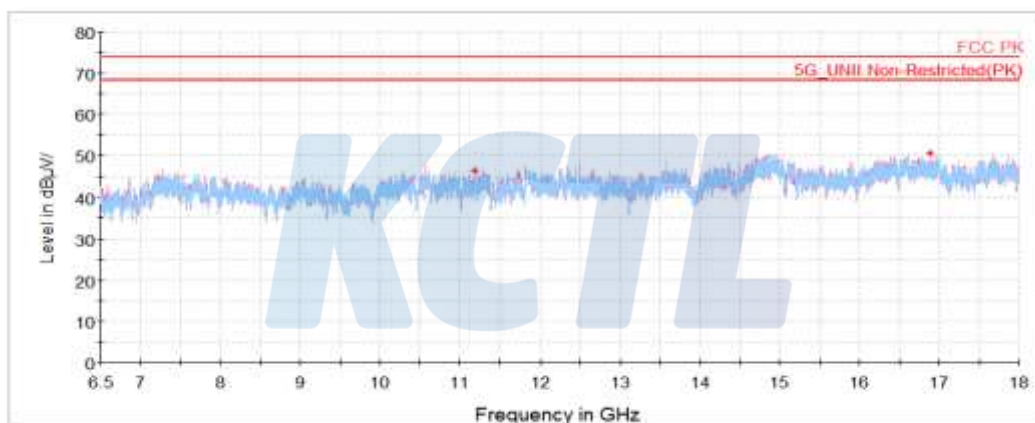
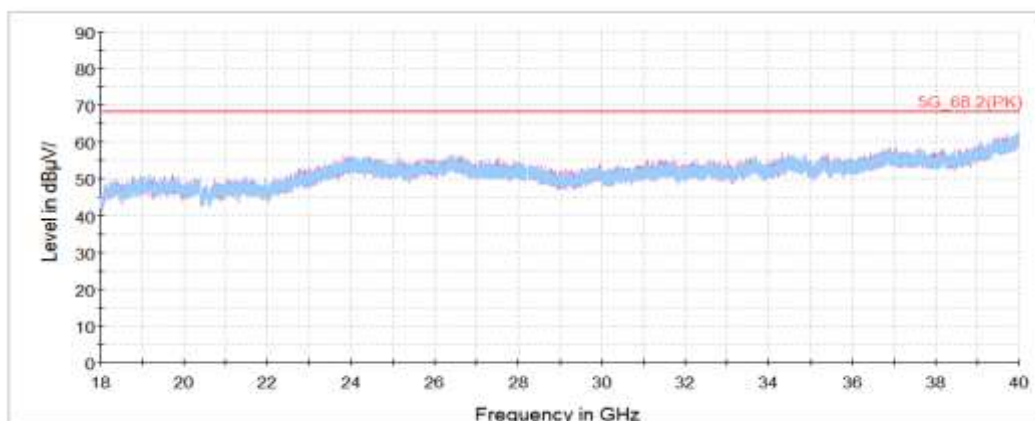
Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 610 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 725.53	V	50.27	35.07	-25.92	-	59.42	68.20	8.78
6 233.25	V	68.37	35.40	-44.82	-	58.95	68.20	9.25
11 194.52 ¹⁾	V	59.01	37.82	-50.48	-	46.35	74.00	27.65
16 890.97	V	55.45	41.89	-46.88	-	50.46	68.20	17.74
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

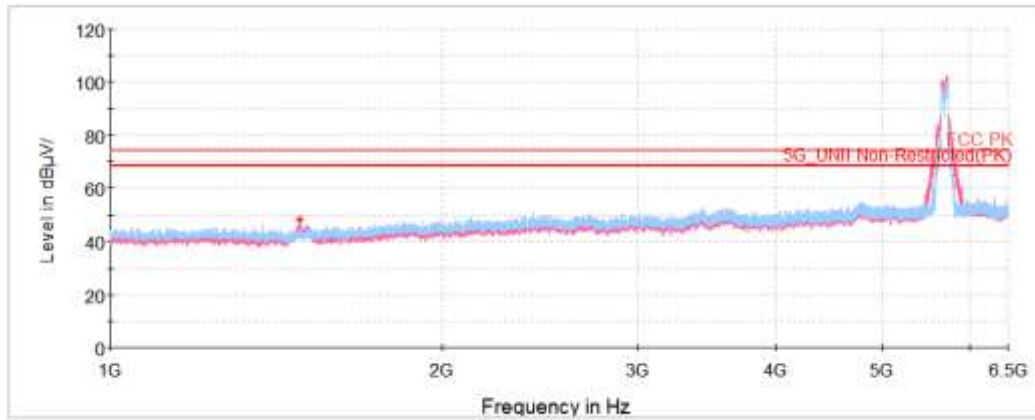
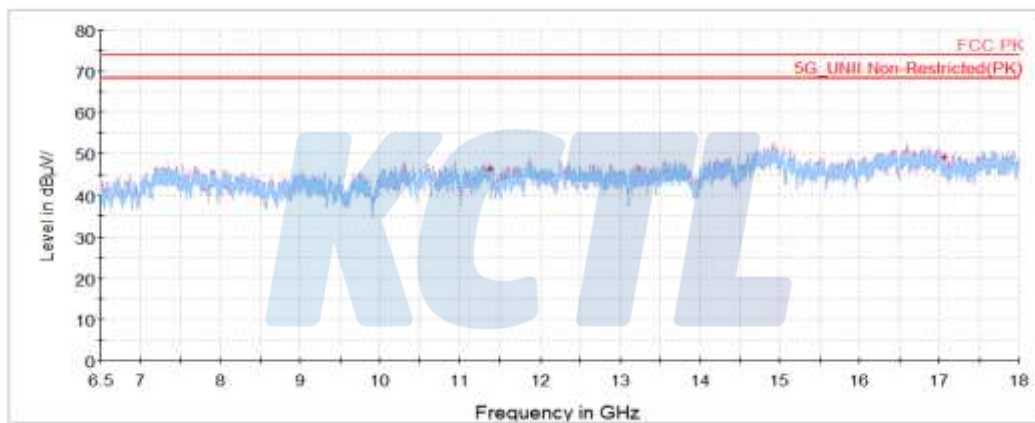
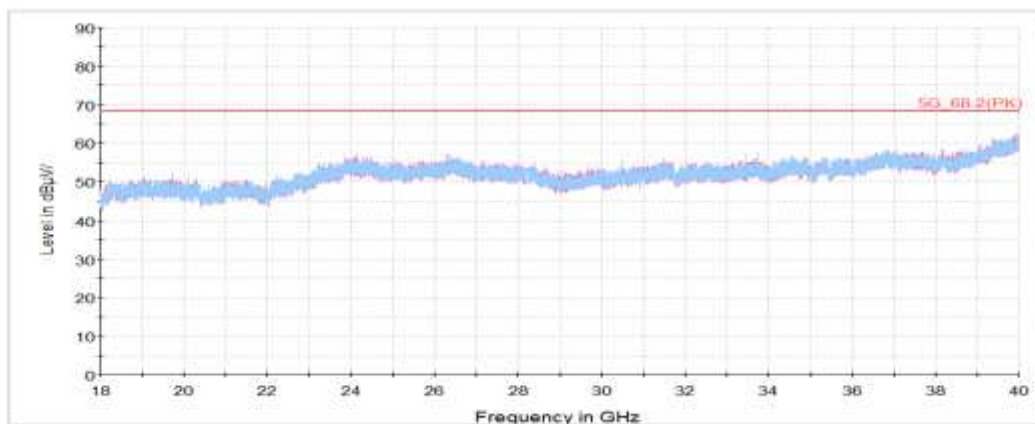


Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Straddle Channel (5 690 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 381.75 ¹⁾	V	58.63	37.93	-50.22	-	46.34	74.00	27.66
17 069.58	V	55.01	41.27	-47.15	-	49.13	68.20	19.07
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

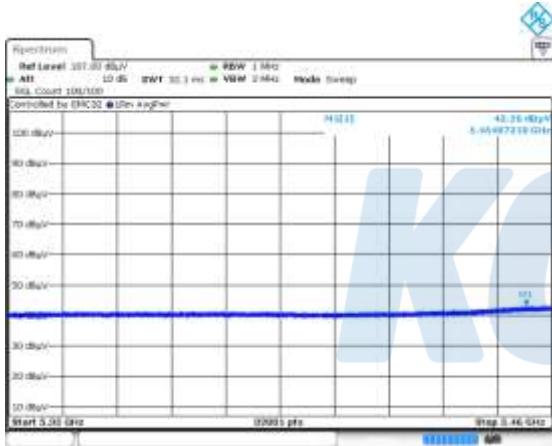
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

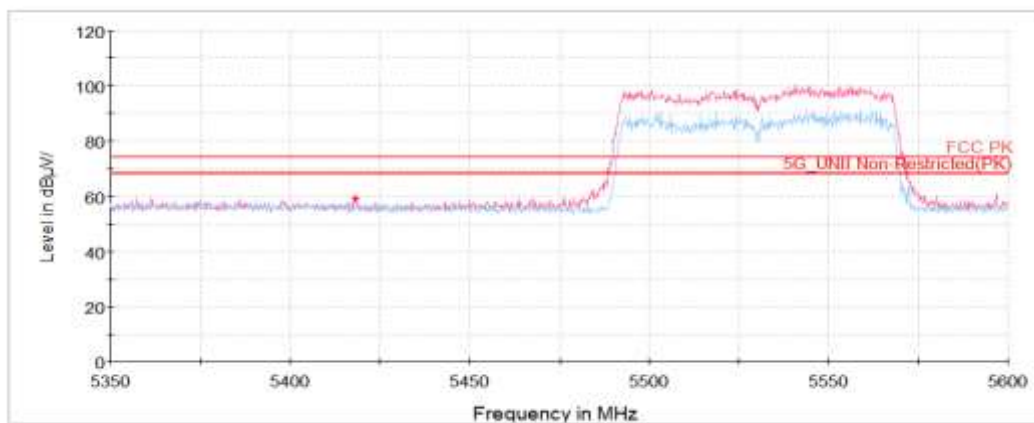
Page (892) of (1046)

**802.11ac VHT80 UNII 2C ANT 3****Lowest Channel (5 530 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 454.87 ¹⁾	V	51.35	34.73	-27.30	-	58.78	74.00	15.22
11 057.95 ¹⁾	V	57.03	37.73	-50.67	-	44.09	74.00	29.91
16 591.25	V	53.47	41.59	-46.79	-	48.27	68.20	19.93
Average Data								
5 454.87 ¹⁾	V	43.26	34.73	-27.30	0.27	50.96	54.00	3.04

Average data (5 454.87 MHz)

Blank

Horizontal/Vertical for Band-edge

KCTL Inc.

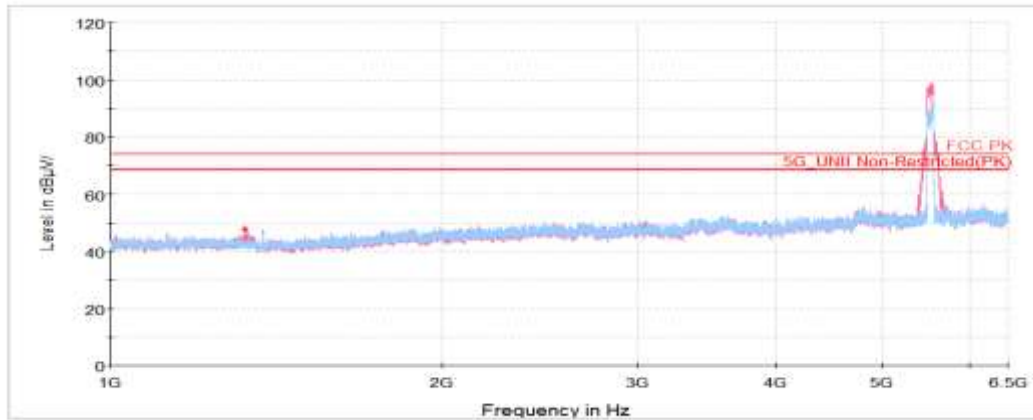
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

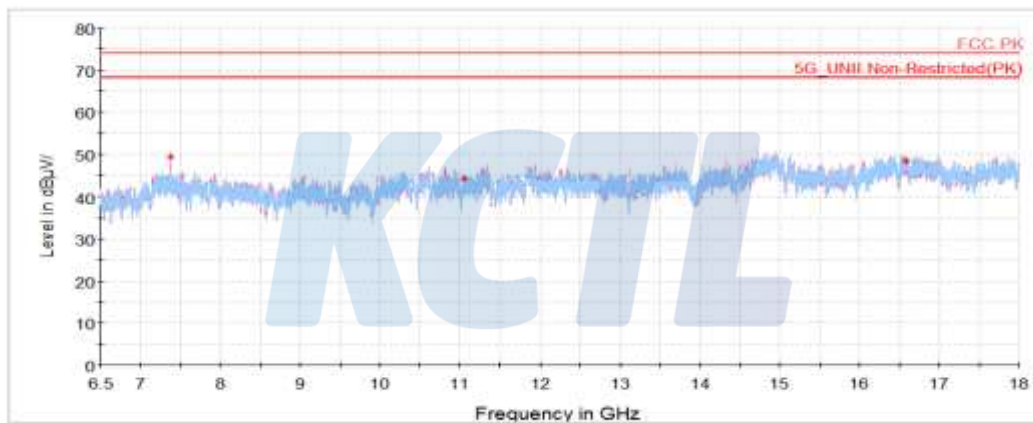
Page (893) of (1046)



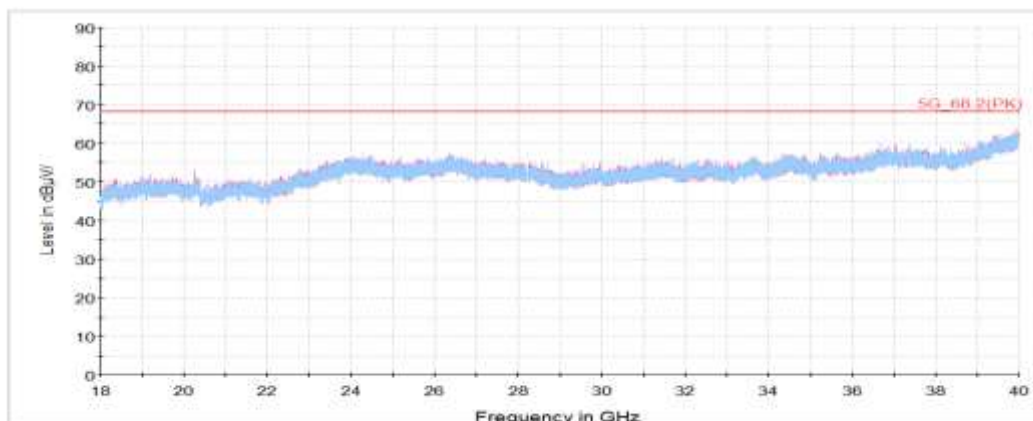
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



KCTL Inc.

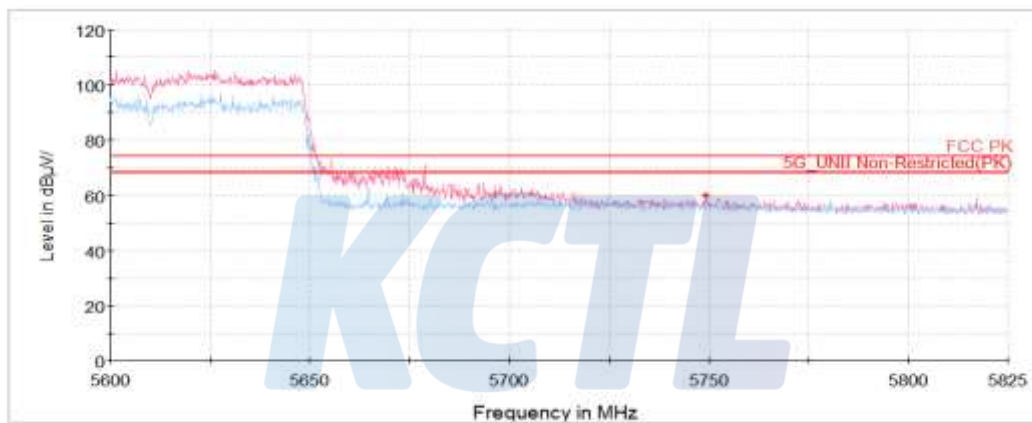
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

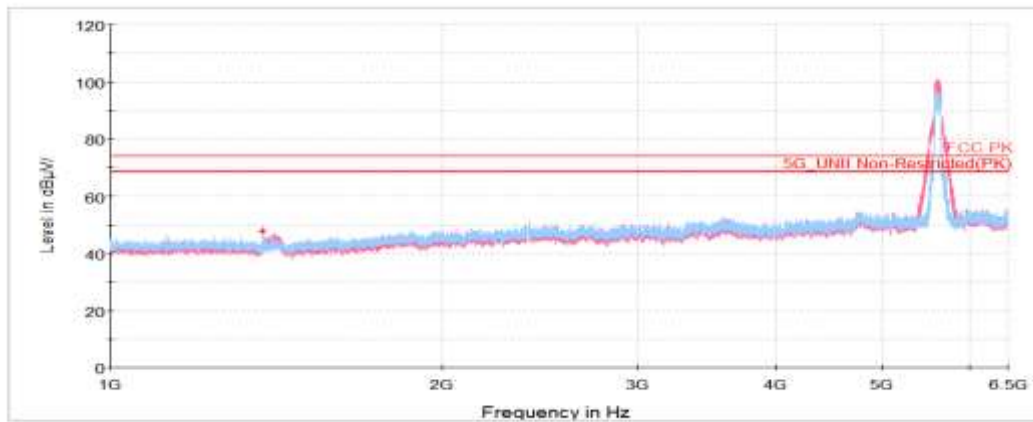
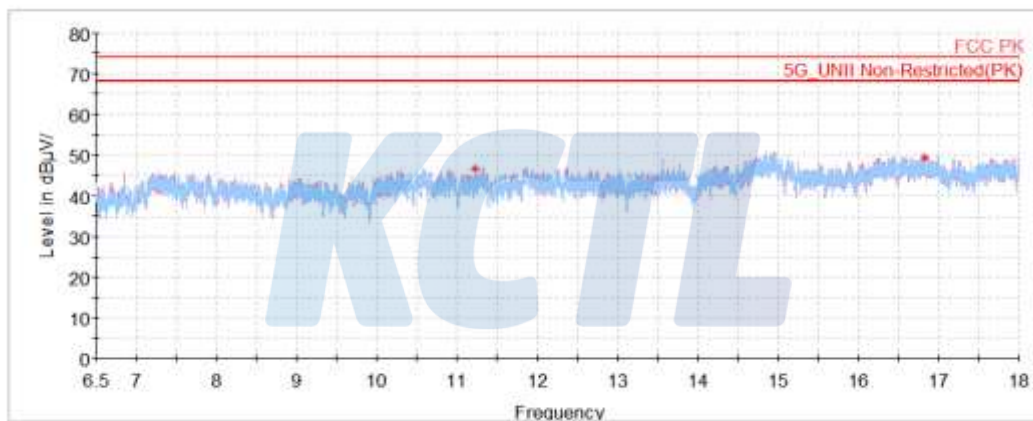
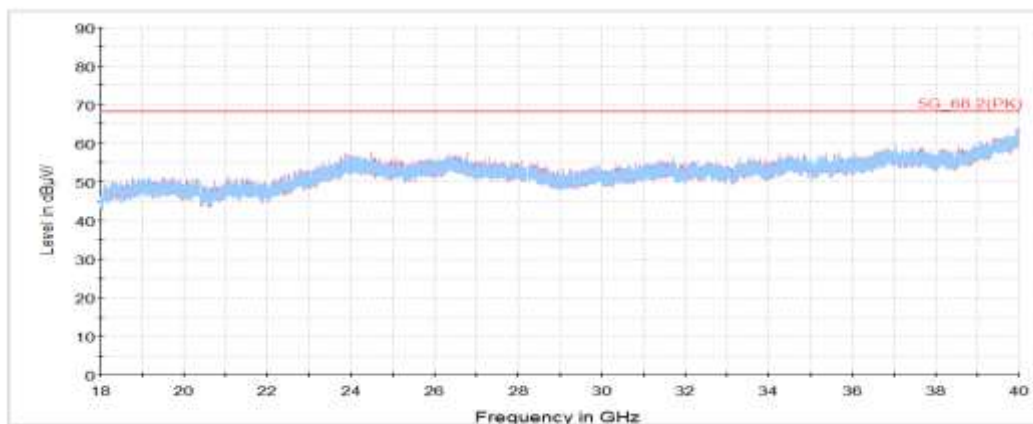
Report No.:
KR20-SRF0030-D

Page (894) of (1046)

**Highest Channel (5 610 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 749.25	V	50.66	35.10	-26.26	-	59.50	68.20	8.70
11 227.22 ¹⁾	V	59.16	37.84	-50.44	-	46.56	74.00	27.44
16 825.56	V	54.16	41.83	-46.86	-	49.13	68.20	19.07
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

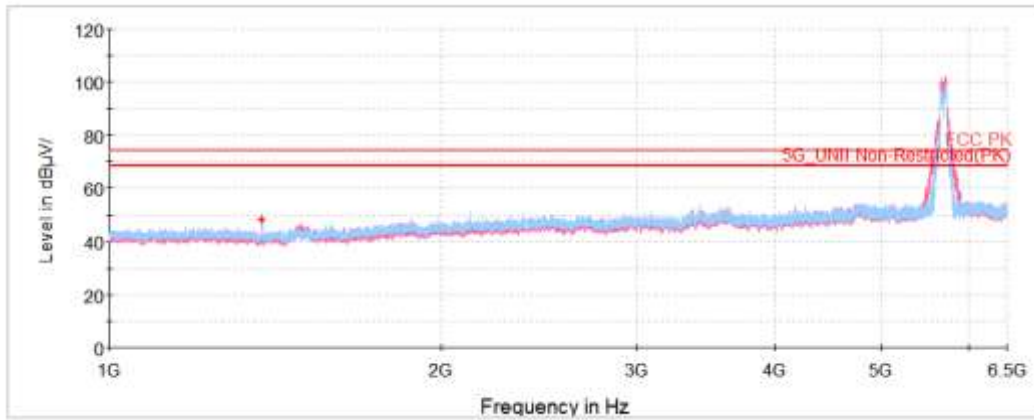
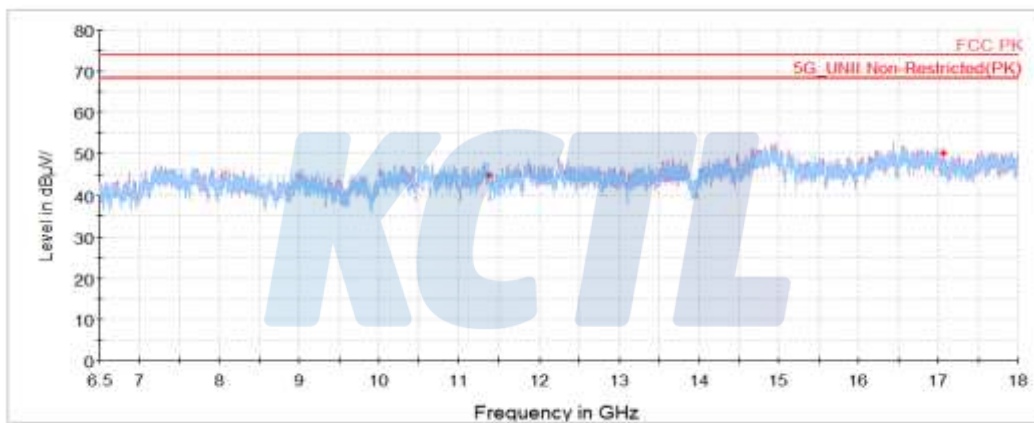
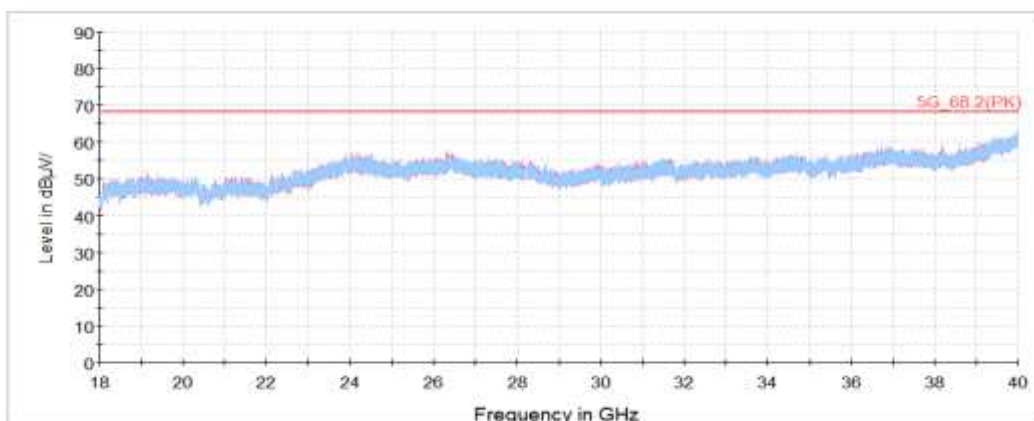
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Straddle Channel (5 690 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 379.23 ¹⁾	V	56.85	37.93	-50.22	-	44.56	74.00	29.44
17 068.50	V	55.91	41.27	-47.15	-	50.03	68.20	18.17
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

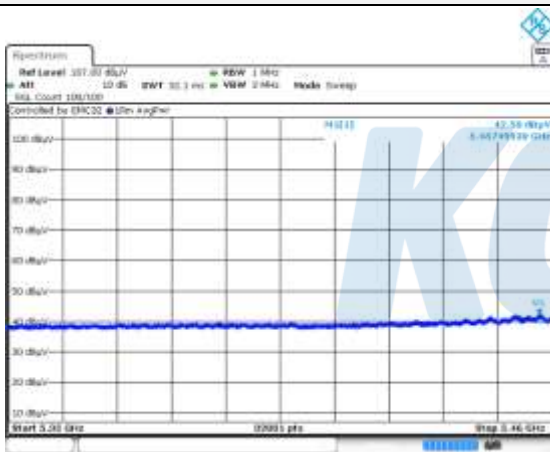
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

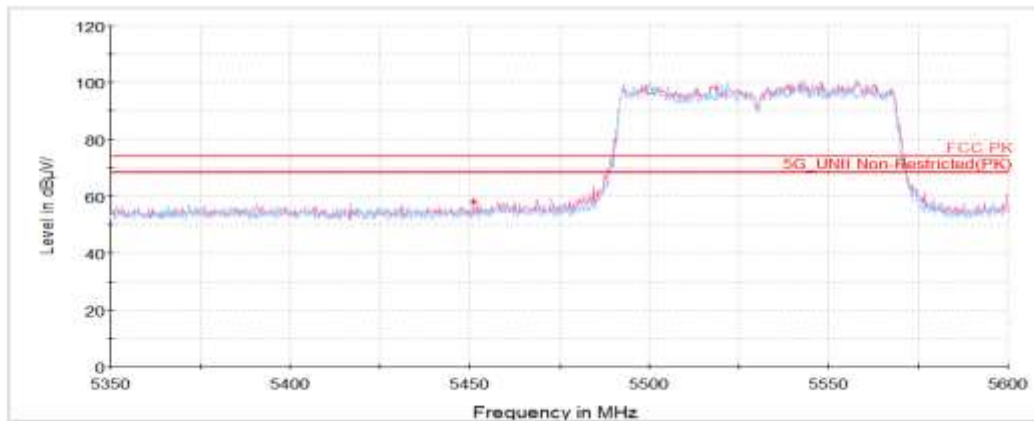
Page (898) of (1046)

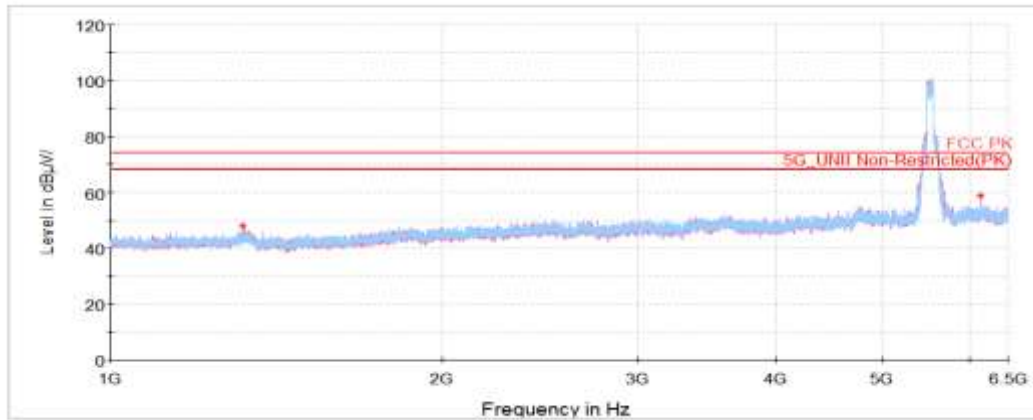
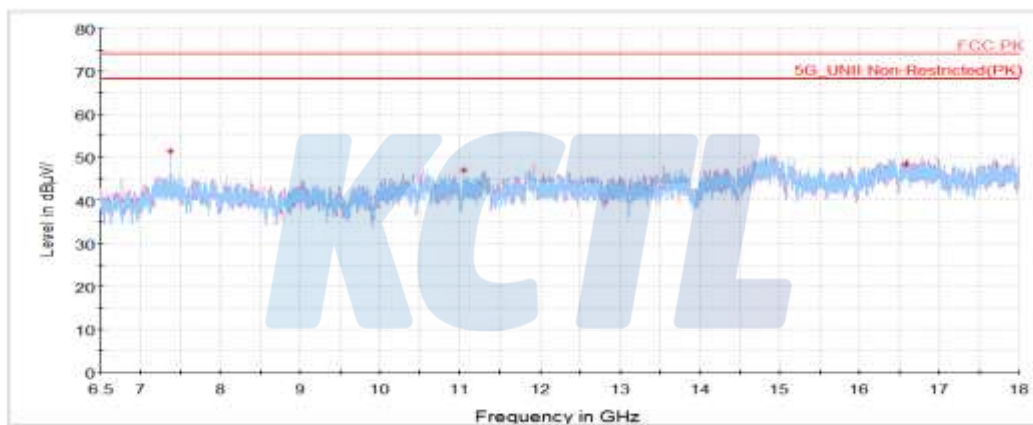
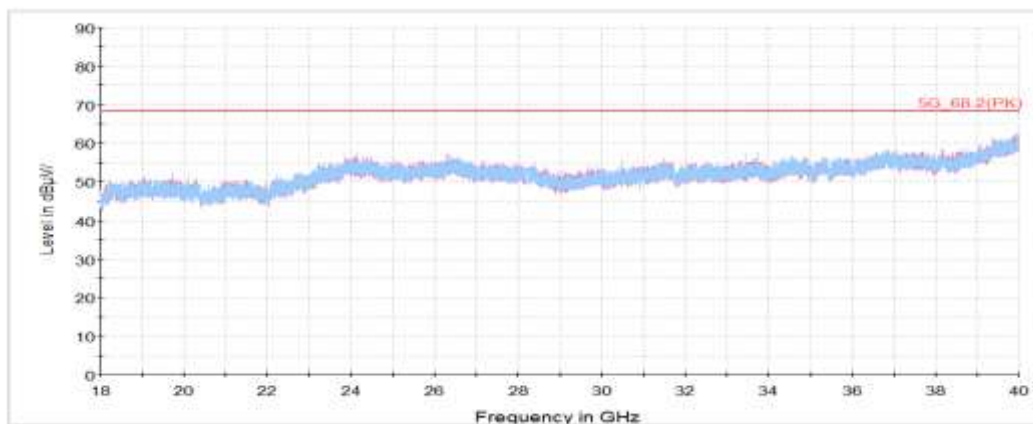
**802.11ac VHT80 UNII 2C 4TX MIMO****Lowest Channel (5 530 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 457.50 ¹⁾	V	50.34	34.73	-27.33	-	57.74	74.00	16.26
6 144.73	V	67.81	35.40	-44.84	-	58.37	68.20	9.83
11 052.92 ¹⁾	H	59.90	37.73	-50.68	-	46.95	74.00	27.05
16 593.05	V	53.54	41.59	-46.79	-	48.34	68.20	19.86
Average Data								
5 457.50 ¹⁾	V	42.50	34.73	-27.33	0.27	50.17	54.00	3.83

Average data (5 457.50 MHz)

Blank

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

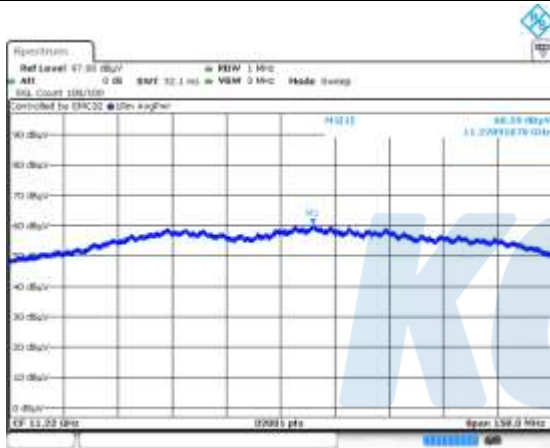
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

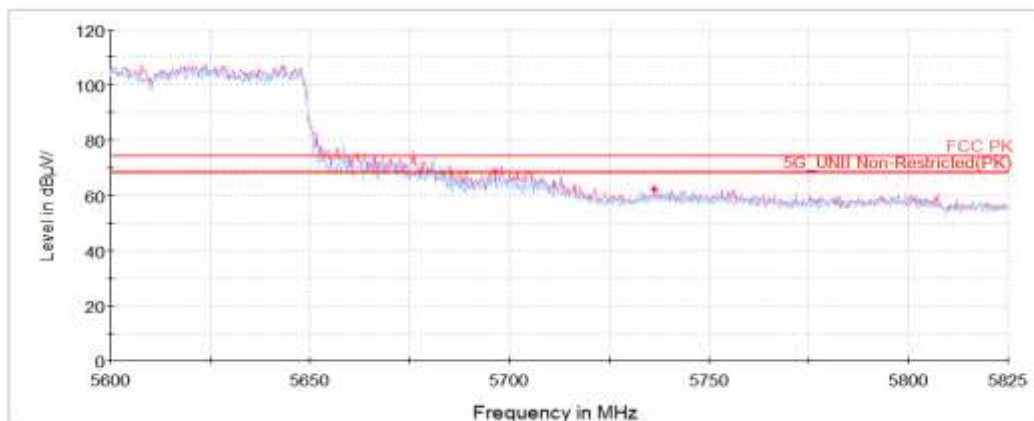
Page (900) of (1046)

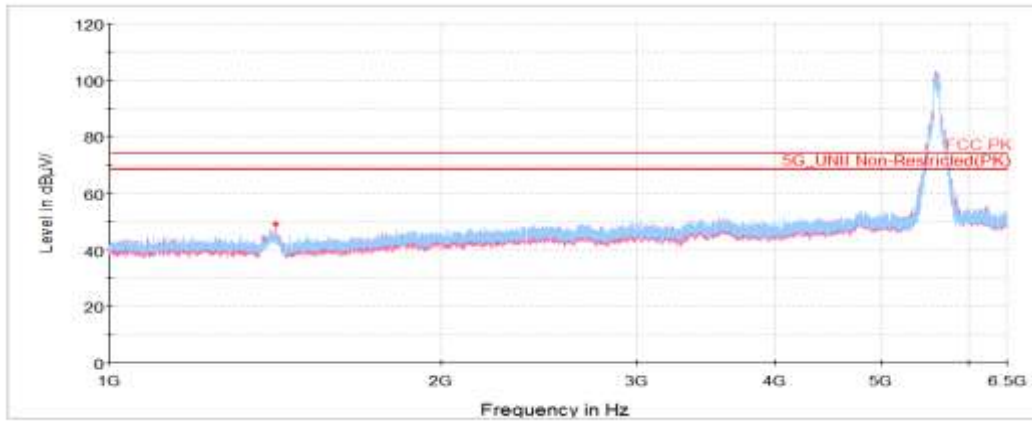
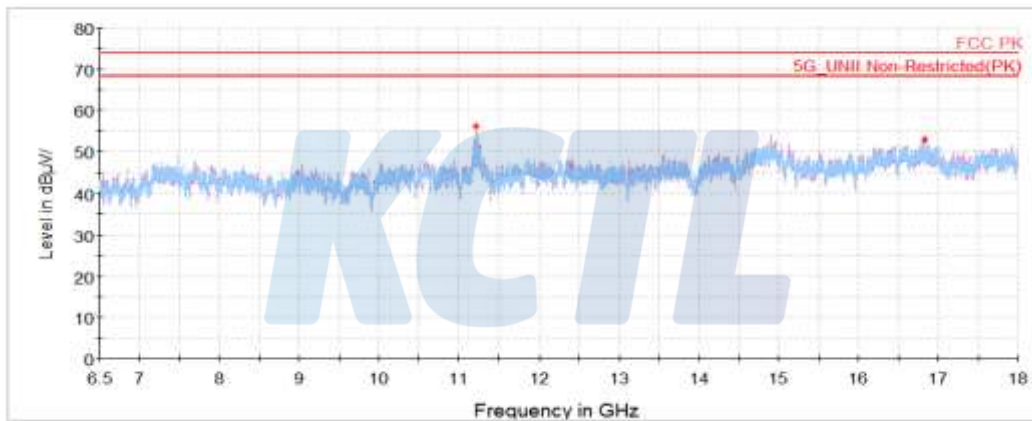
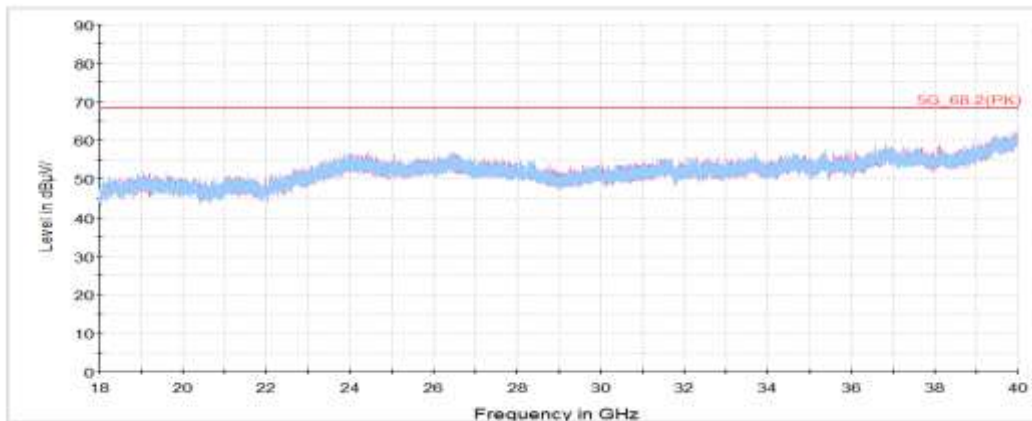
**Highest Channel (5 610 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 736.19	V	53.03	35.08	-26.08	-	62.03	68.20	6.17
11 228.91 ¹⁾	V	68.71	37.84	-50.43	-	56.12	74.00	17.88
16 833.83	H	57.92	41.83	-46.86	-	52.89	68.20	15.31
Average Data								
11 228.91 ¹⁾	V	60.59	37.84	-50.43	0.14	47.78	54.00	6.22

Average data (11 228.91 MHz)

Blank

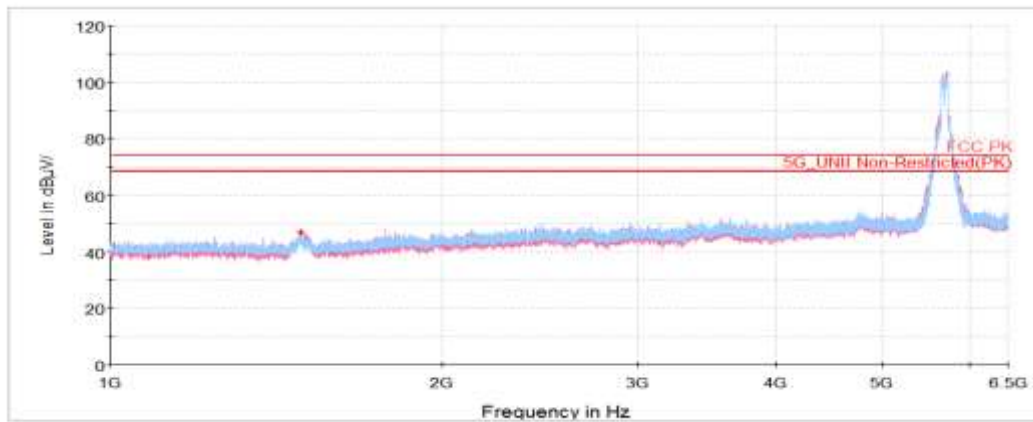
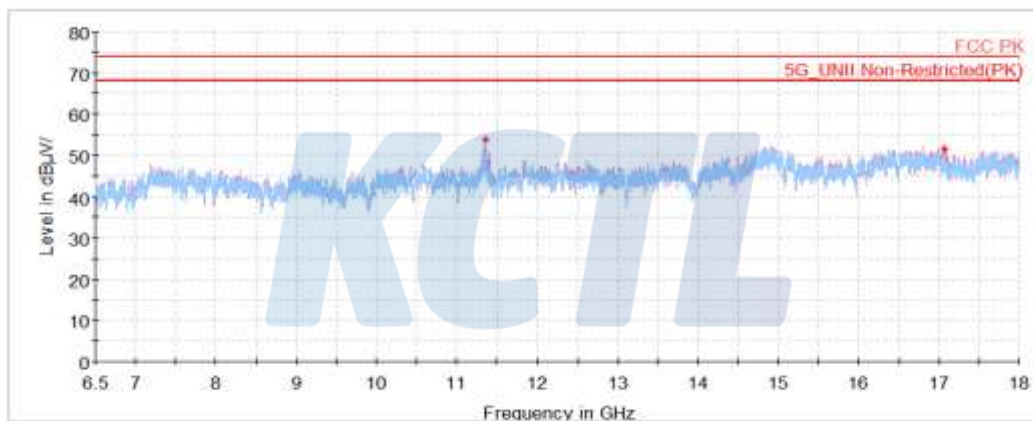
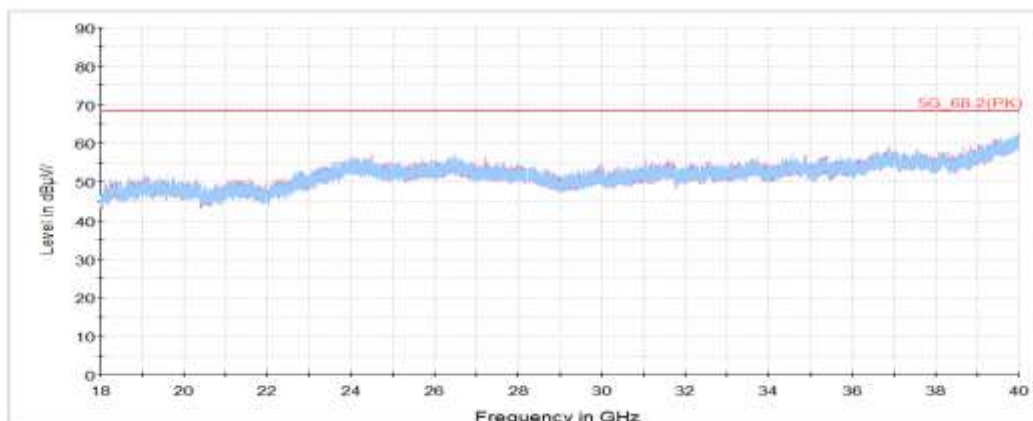
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Straddle Channel (5 690 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 371.57 ¹⁾	V	66.10	37.92	-50.23	-	53.79	74.00	20.21
17 069.22	V	57.29	41.27	-47.15	-	51.41	68.20	16.79
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

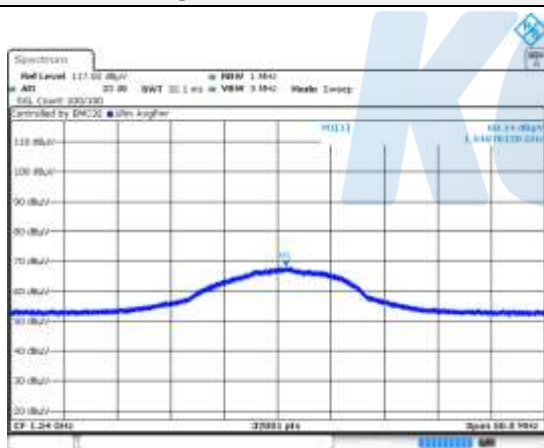
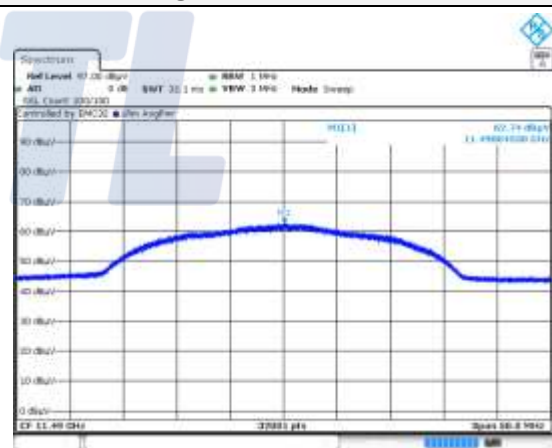
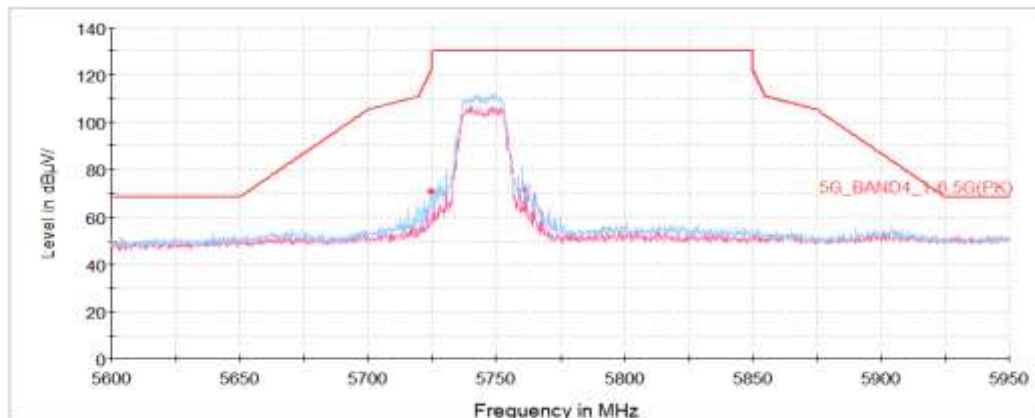
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

Page (904) of (1046)

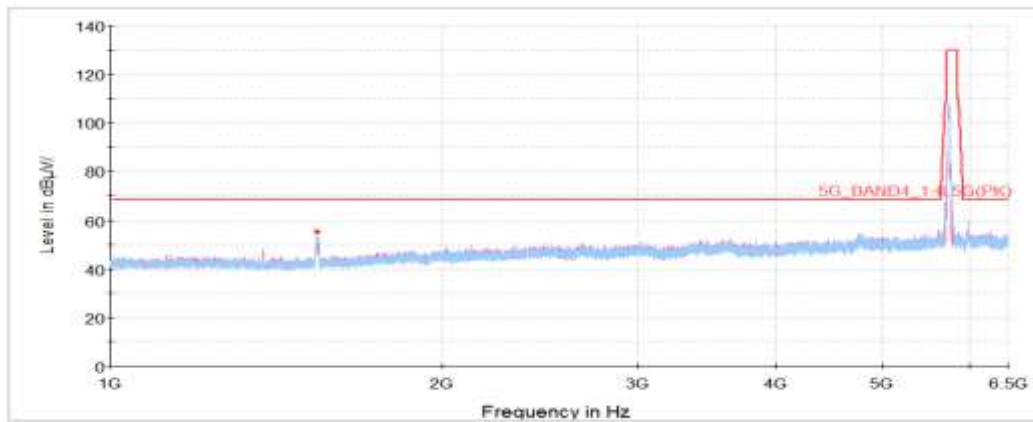
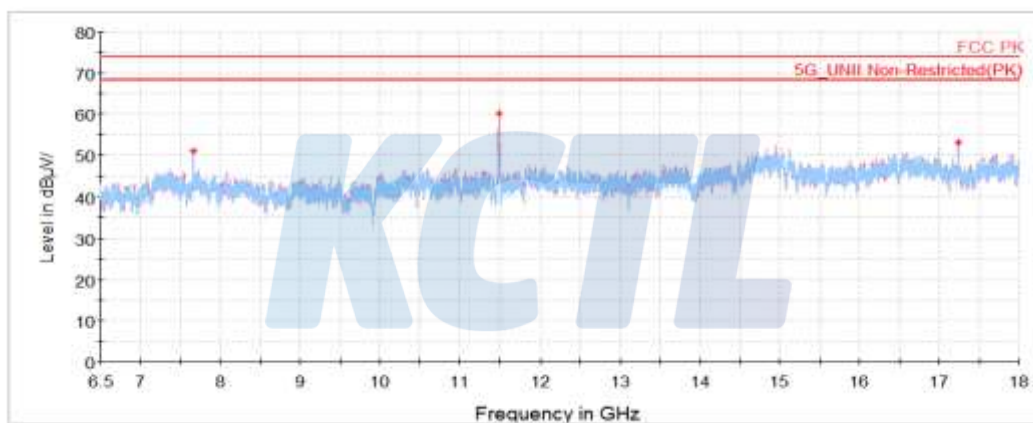
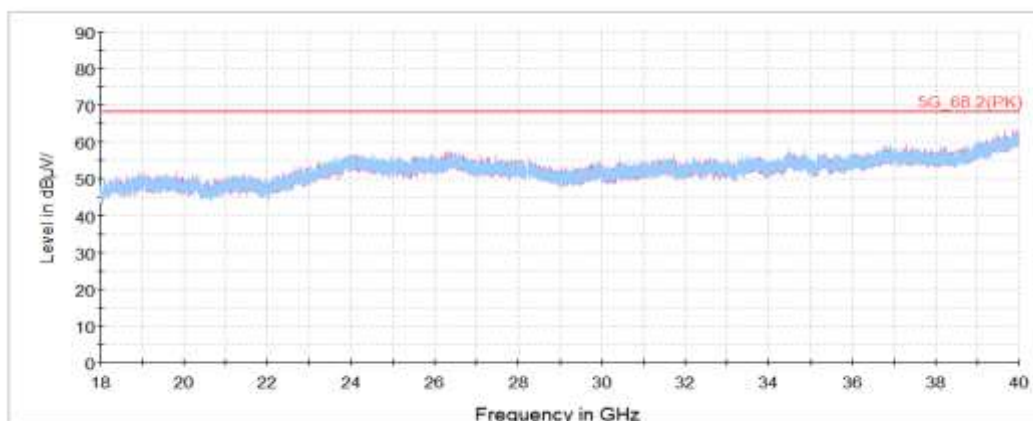
**802.11a UNII 3 ANT 0****Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 540.78 ¹⁾	H	77.25	28.25	-50.05	-	55.45	74.00	18.55
5 724.67	H	61.27	35.07	-25.91	-	70.43	121.45	51.02
7 659.86 ¹⁾	V	66.08	35.53	-50.56	-	51.05	74.00	22.95
11 490.05 ¹⁾	V	72.10	37.99	-50.07	-	60.02	74.00	13.98
17 239.20	V	59.63	41.20	-47.73	-	53.10	68.20	15.10
Average Data								
1 540.78 ¹⁾	H	68.14	28.25	-50.05	0.22	46.56	54.00	7.44
11 490.05 ¹⁾	V	62.74	37.99	-50.07	0.22	50.88	54.00	3.12

Average data (1 540.78 MHz)**Average data (11 490.05 MHz)****Horizontal/Vertical for Band-edge**

This test report shall not be reproduced, except in full, without the written approval

KCTL-TIR001-003/2

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

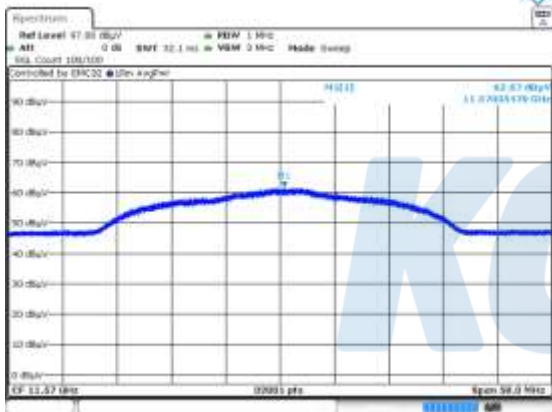
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

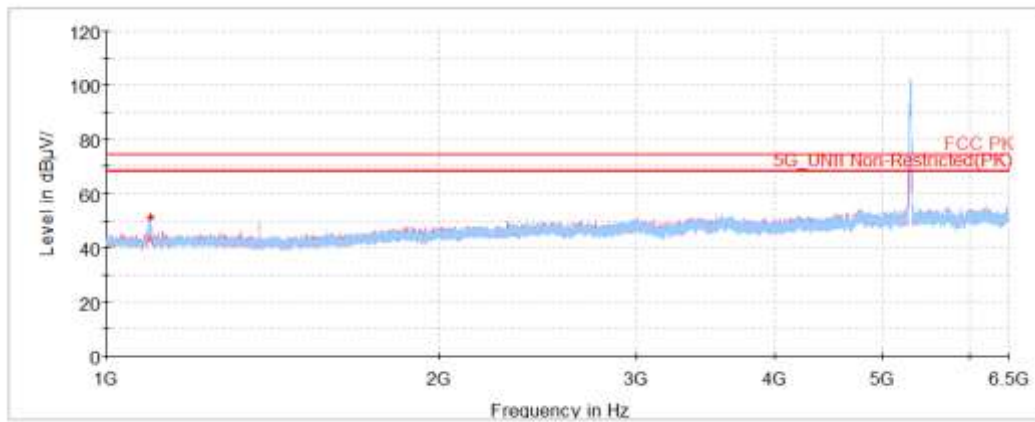
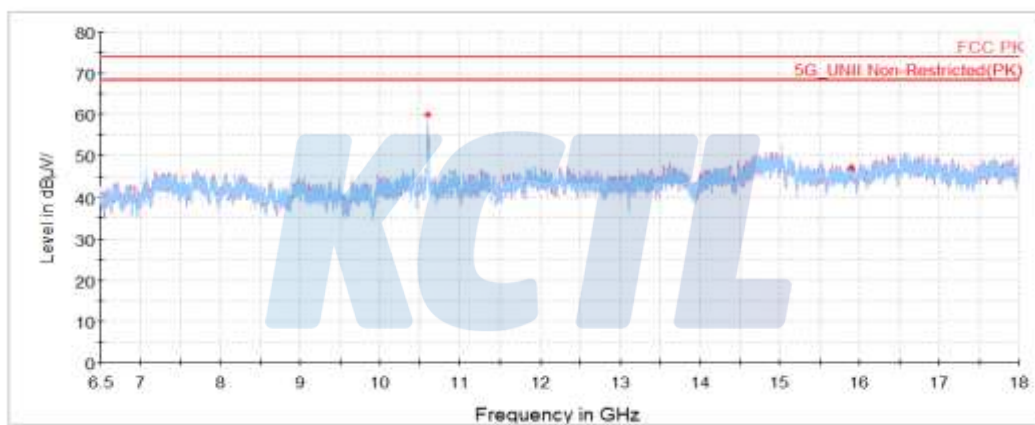
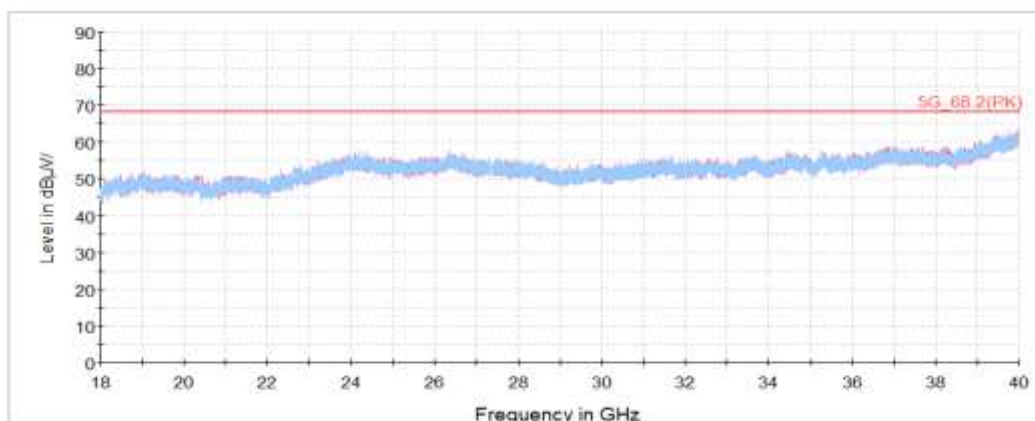
Page (906) of (1046)

**Middle Channel (5 785 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 580.77 ¹⁾	H	74.86	28.50	-50.09	-	53.27	74.00	20.73
7 713.20 ¹⁾	V	66.43	35.57	-50.63	-	51.37	74.00	22.63
11 570.35 ¹⁾	H	70.64	38.08	-50.10	-	58.62	74.00	15.38
17 357.80	H	60.20	41.16	-48.14	-	53.22	68.20	14.98
Average Data								
11 570.35 ¹⁾	H	62.07	38.08	-50.10	0.22	50.27	54.00	3.73

Average data (10 570.35 MHz)

Blank

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

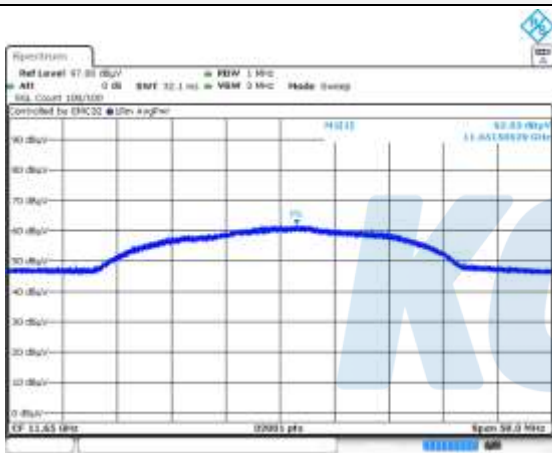
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

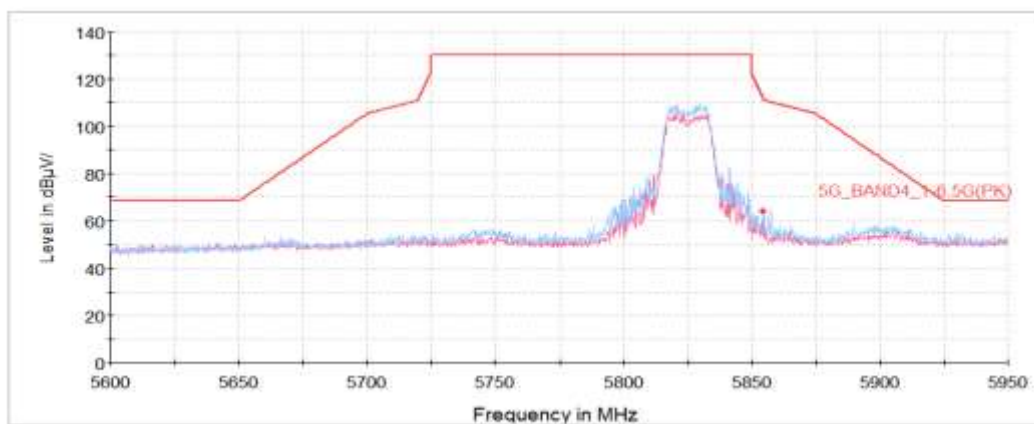
Page (908) of (1046)

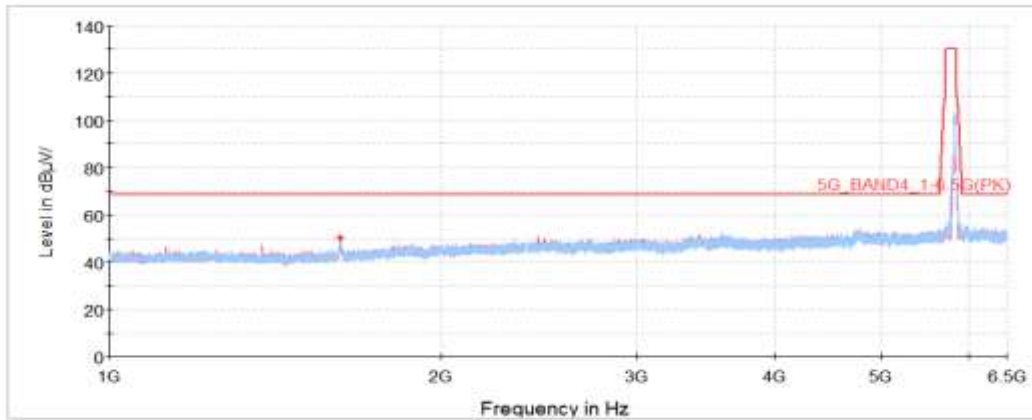
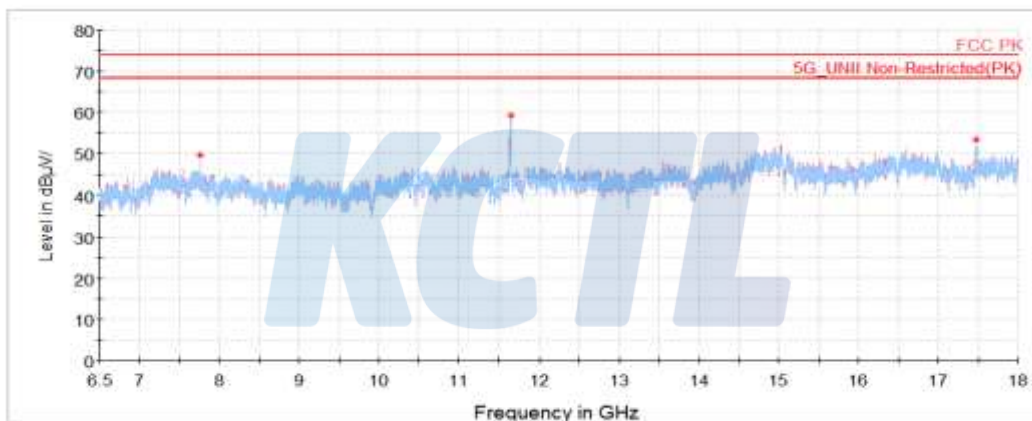
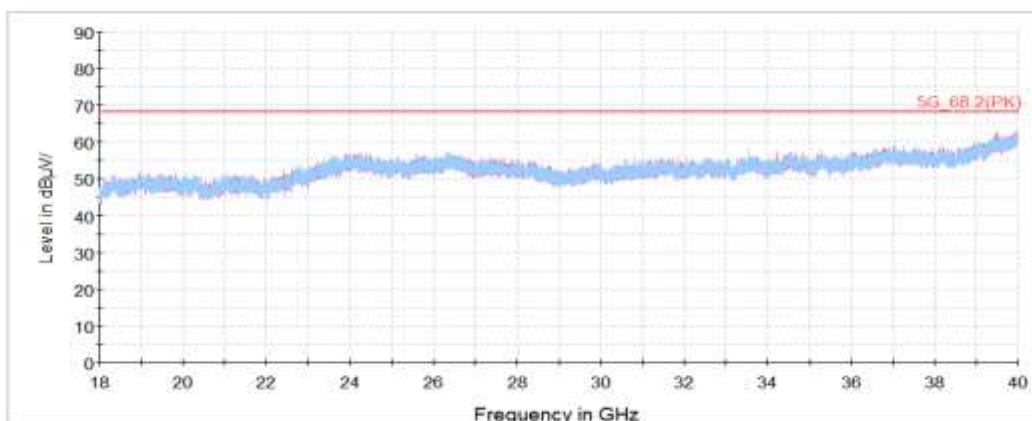
**Highest Channel (5 825 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 854.44	H	55.44	35.23	-26.65	-	64.02	112.08	48.06
7 766.44	V	64.73	35.61	-50.7	-	49.64	68.20	18.56
11 651.51 ¹⁾	V	71.06	38.18	-50.15	-	59.09	74.00	14.91
17 472.08	H	60.76	41.11	-48.54	-	53.33	68.20	14.87
Average Data								
11 651.51 ¹⁾	V	62.03	38.18	-50.15	0.22	50.28	54.00	3.72

Average data (11 651.51 MHz)

Blank

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

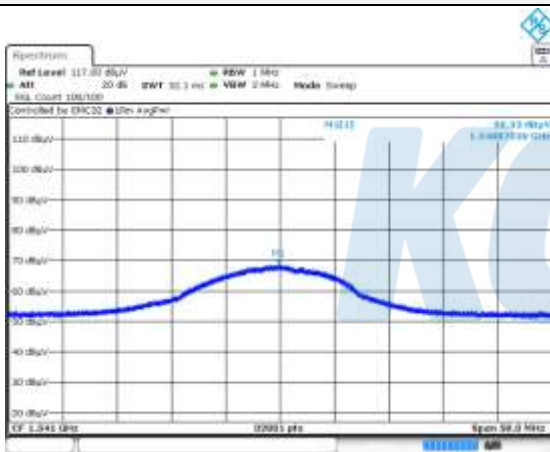
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

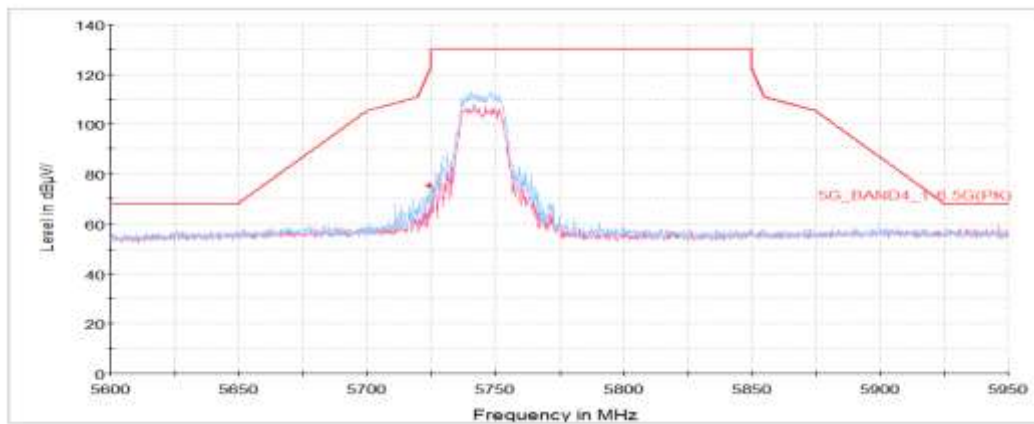
Page (910) of (1046)

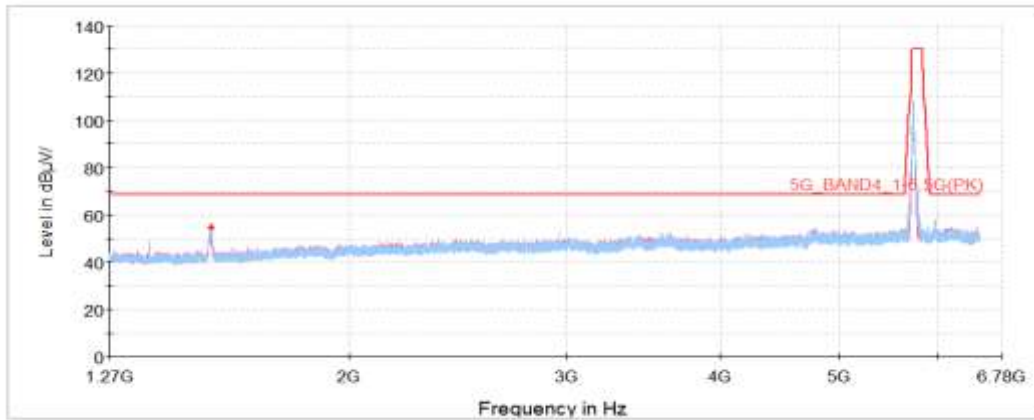
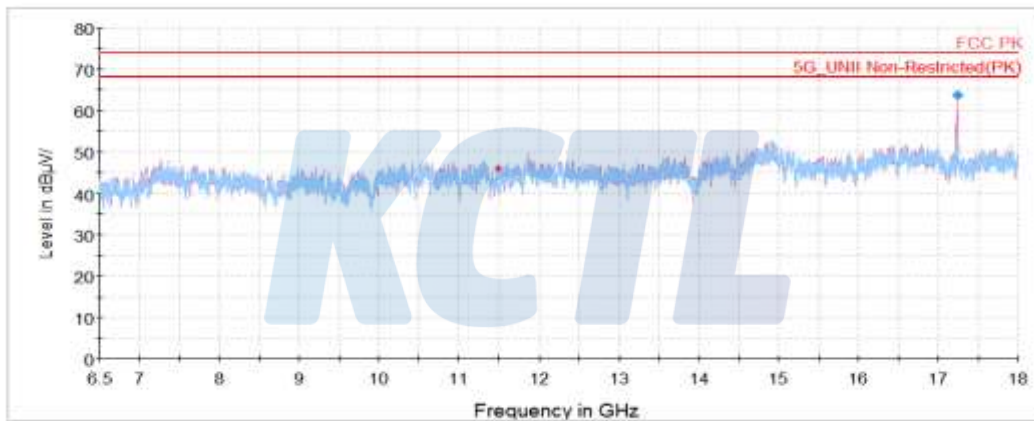
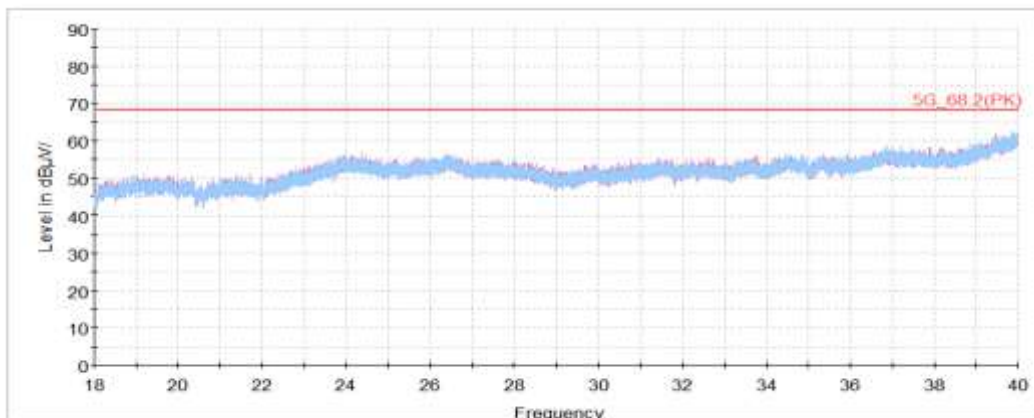
**802.11a UNII 3 ANT 1****Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 540.87 ¹⁾	H	76.51	28.25	-50.05	-	54.71	74.00	19.29
5 724.33	H	65.99	35.07	-25.91	-	75.15	120.67	45.51
11 489.56 ¹⁾	V	58.05	37.99	-50.07	-	45.97	74.00	28.03
17 238.84	V	70.29	41.20	-47.73	-	63.76	68.20	4.44
Average Data								
1 540.87 ¹⁾	H	68.93	28.25	-50.05	0.22	47.35	54.00	6.65

Average data (1 540.87 MHz)

Blank

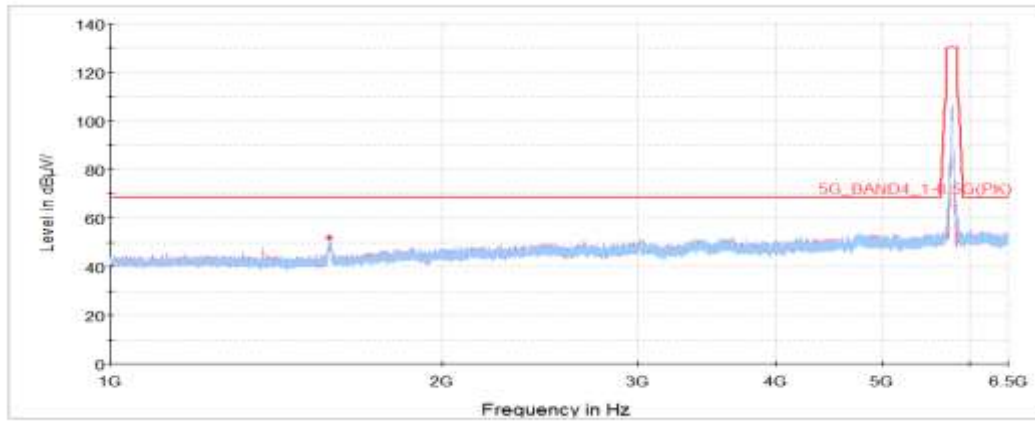
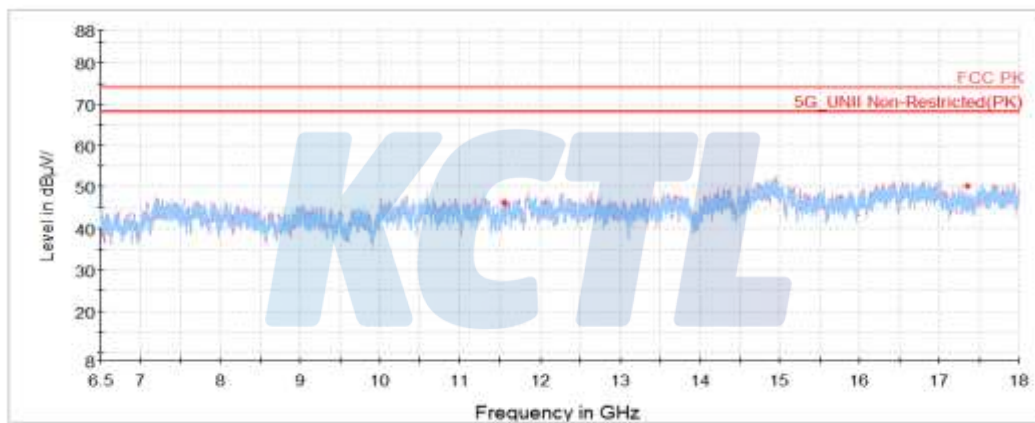
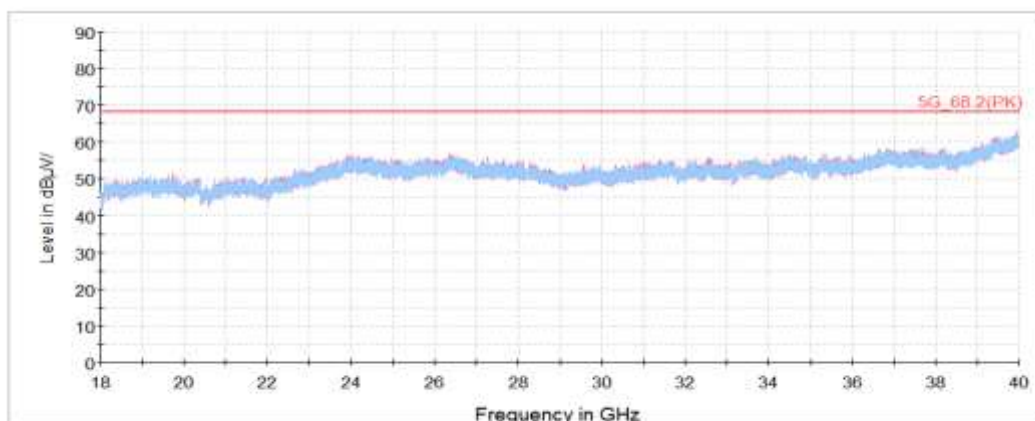
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 785 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 569.34 ¹⁾	V	58.14	38.08	-50.10	-	46.12	74.00	27.88
17 360.67	V	57.06	41.16	-48.15	-	50.07	68.20	18.13
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

KCTL

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

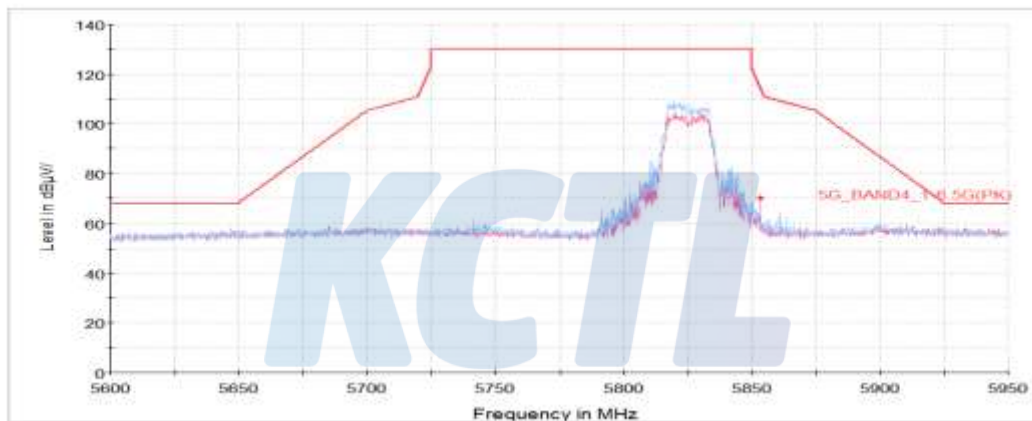
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

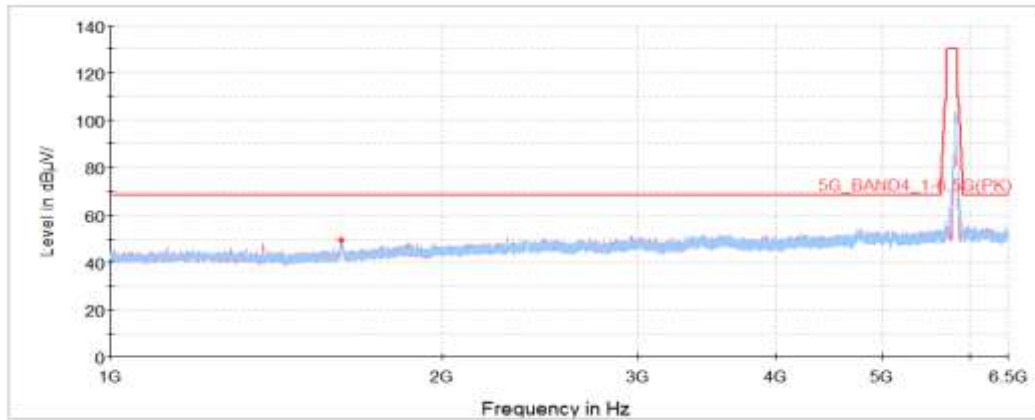
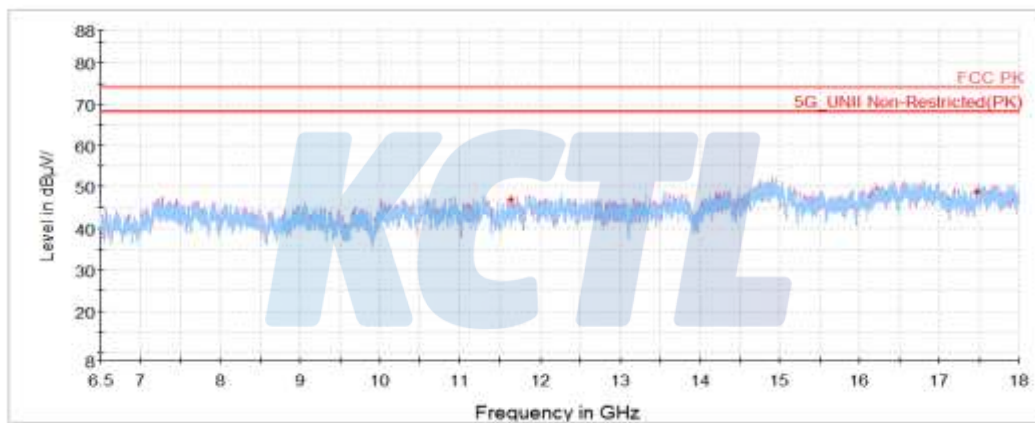
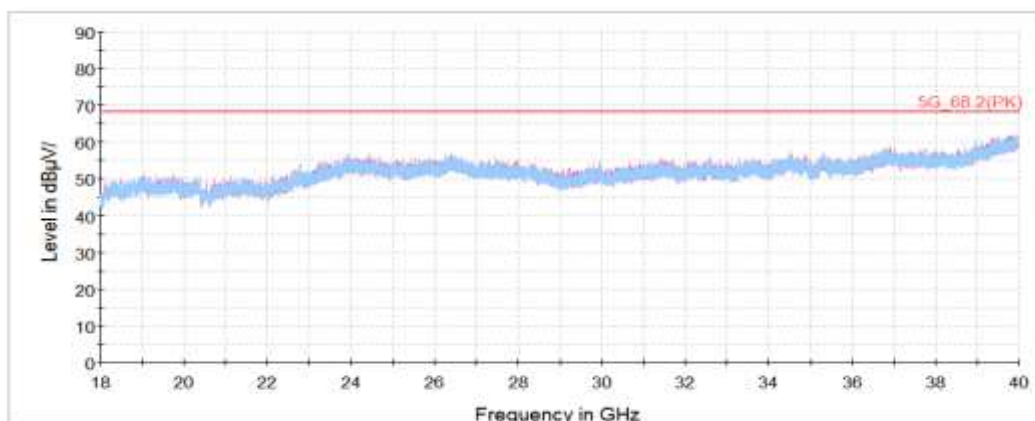
Report No.:
KR20-SRF0030-D

Page (914) of (1046)

**Highest Channel (5 825 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 621.16 ¹⁾	H	70.69	28.75	-50.03	-	49.41	74.00	24.59
5 853.23	V	61.46	35.22	-26.66	-	70.02	114.83	44.80
11 652.36 ¹⁾	V	58.79	38.18	-50.15	-	46.82	74.00	27.18
17 475.31	V	56.09	41.11	-48.55	-	48.65	68.20	19.55
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

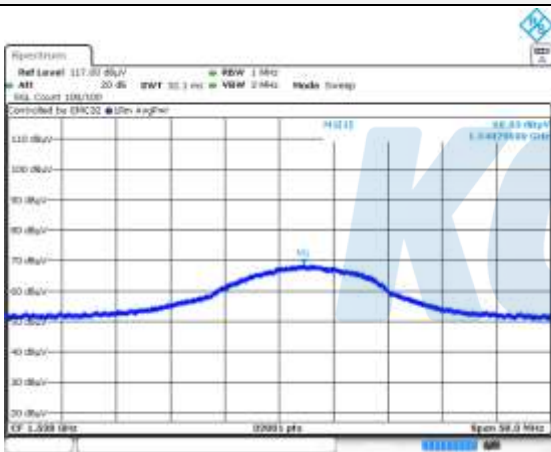
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

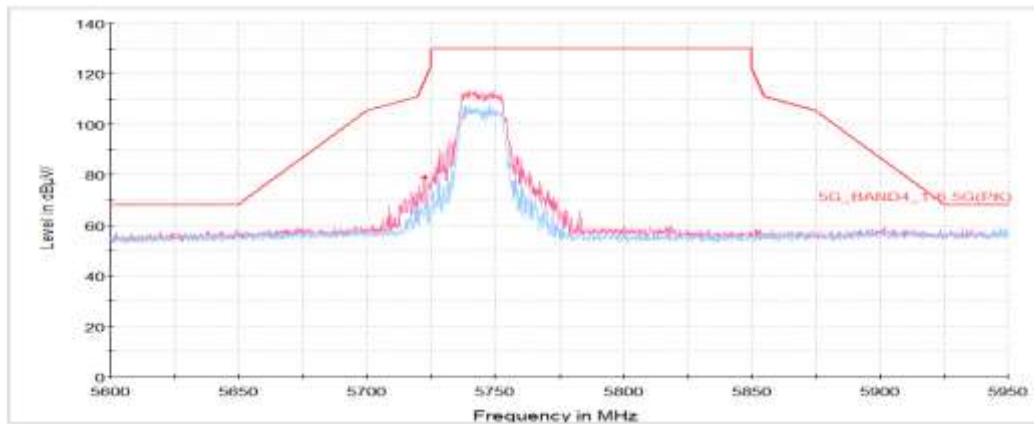
Page (916) of (1046)

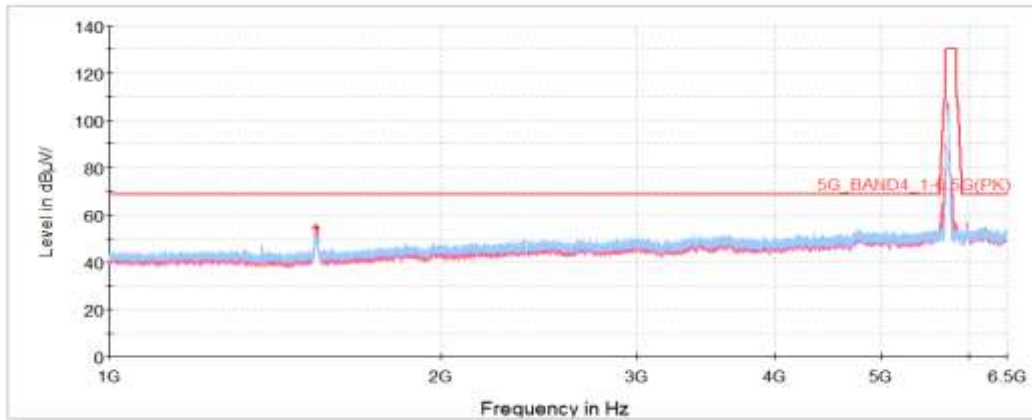
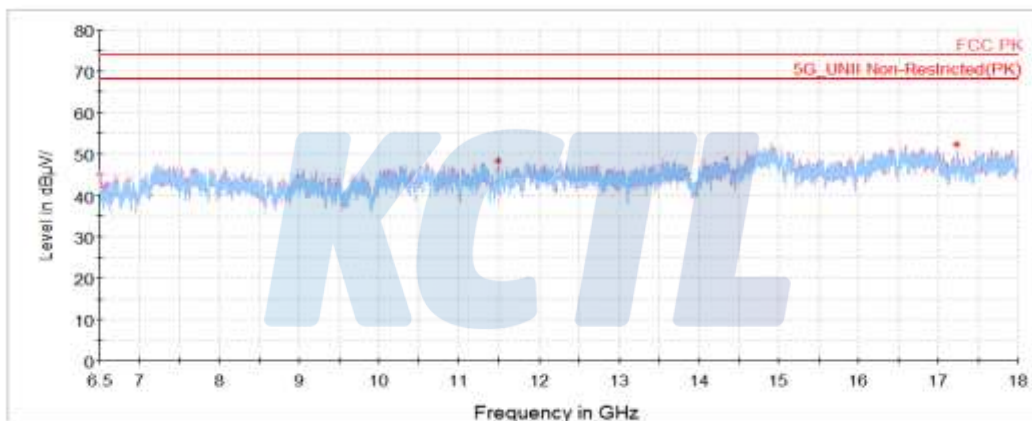
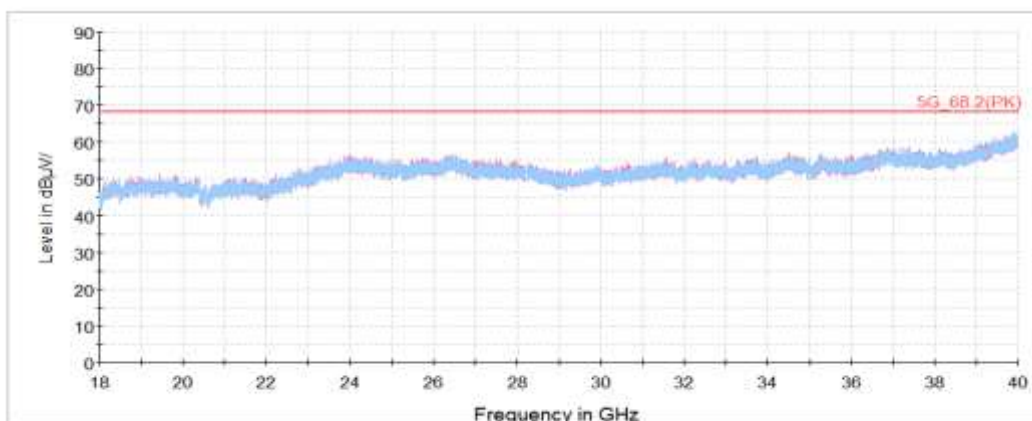
**802.11a UNII 3 ANT 2****Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 540.30 ¹⁾	V	76.76	28.25	-50.05	-	54.96	74.00	19.04
5 722.44	V	69.61	35.07	-25.88	-	78.80	116.36	37.56
11 490.64 ¹⁾	V	60.38	37.99	-50.07	-	48.30	74.00	25.70
17 235.25	H	58.86	41.21	-47.72	-	52.35	68.20	15.85
Average Data								
1 540.30 ¹⁾	V	68.83	28.25	-50.05	0.22	47.25	54.00	6.75

Average data (1 540.30 MHz)

Blank

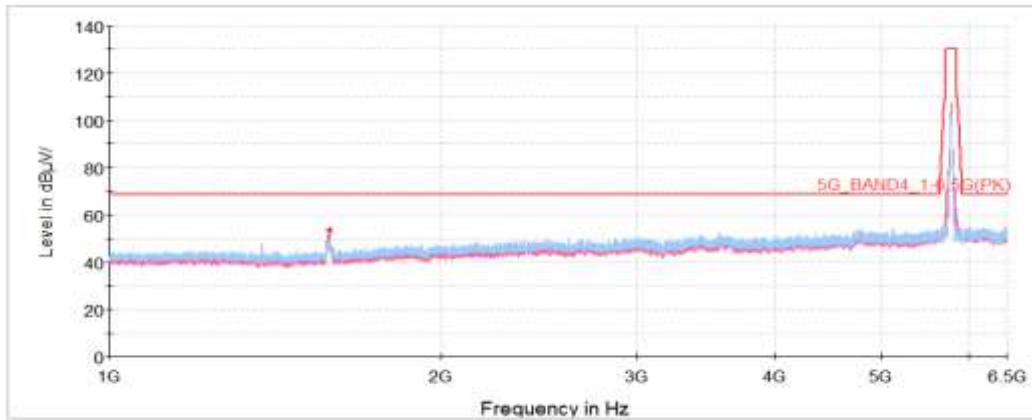
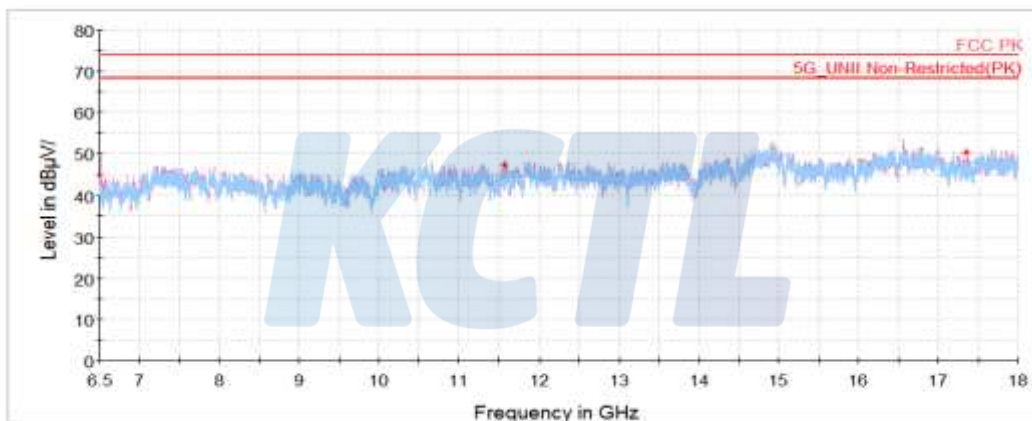
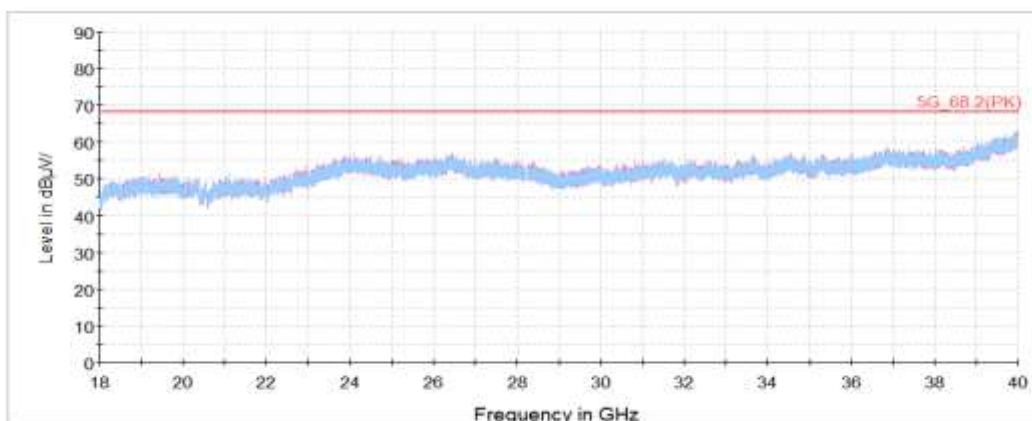
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 785 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 573.66 ¹⁾	V	59.15	38.09	-50.10	-	47.14	74.00	26.86
17 352.77	V	57.24	41.16	-48.12	-	50.28	68.20	17.92
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

KCTL

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

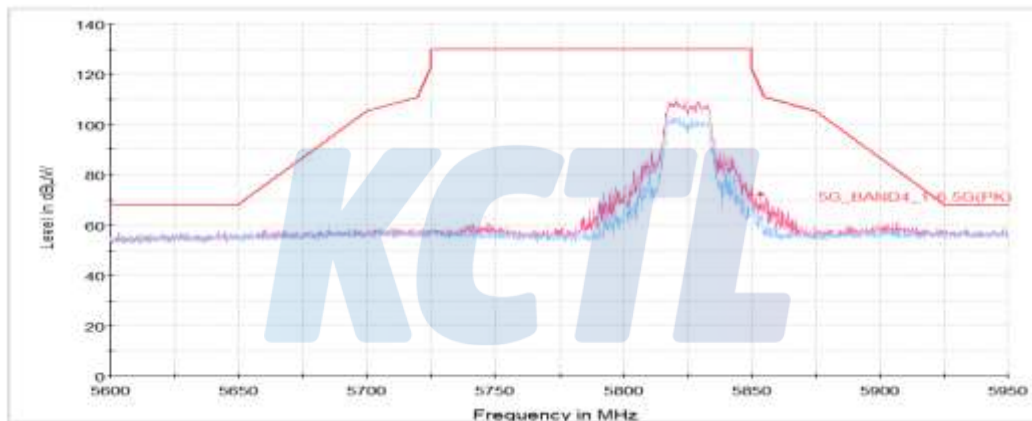
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

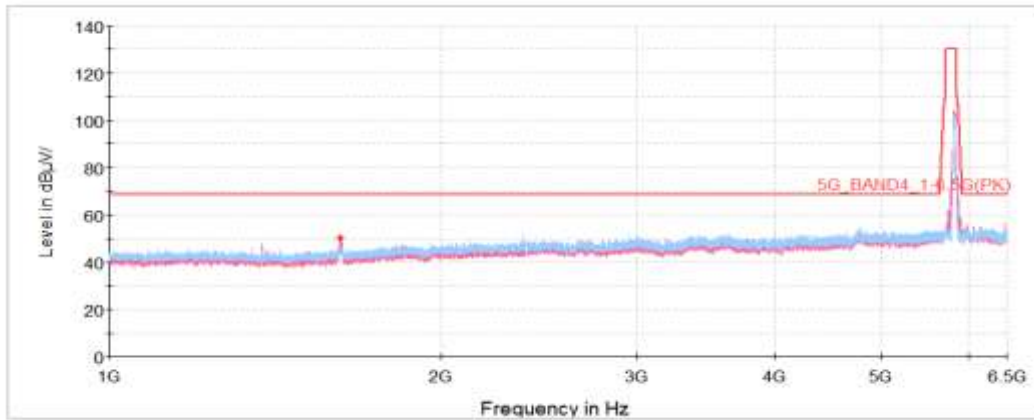
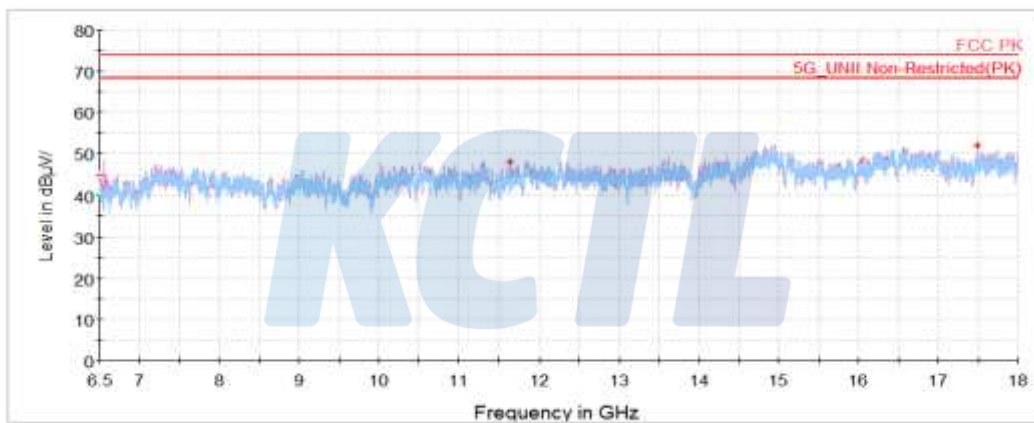
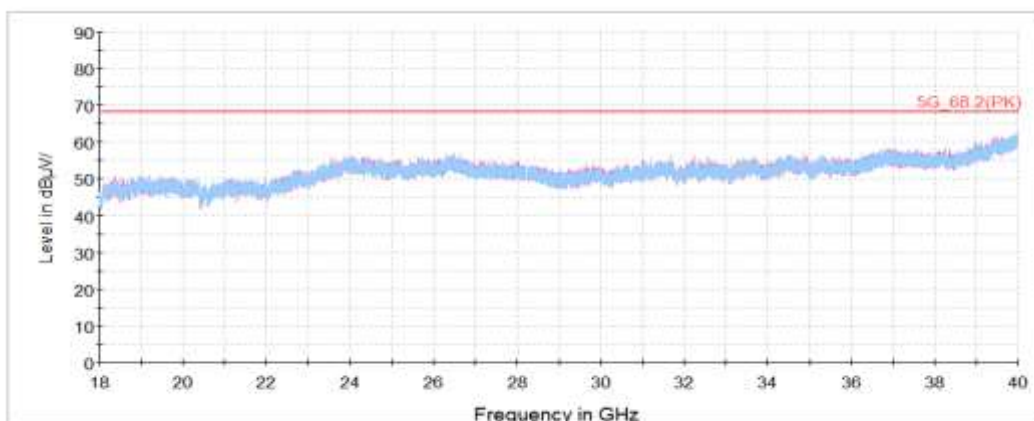
Report No.:
KR20-SRF0030-D

Page (920) of (1046)

**Highest Channel (5 825 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 620.64 ¹⁾	V	71.73	28.75	-50.03	-	50.45	74.00	23.55
5 853.41	V	63.70	35.22	-26.66	-	72.26	74.00	1.74
11 648.77 ¹⁾	V	59.85	38.18	-50.15	-	47.88	74.00	26.12
17 487.17	V	59.52	41.11	-48.59	-	52.04	68.20	16.16
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

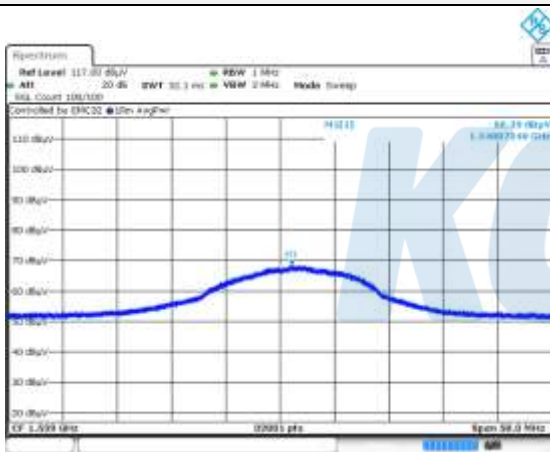
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

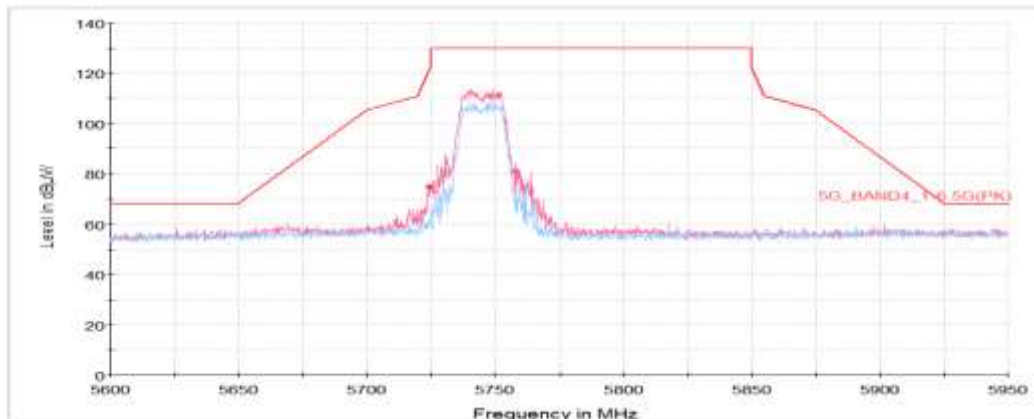
Page (922) of (1046)

**802.11a UNII 3 ANT 3****Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 540.07 ¹⁾	V	75.84	28.25	-50.05	-	54.04	74.00	19.96
5 724.50	V	65.74	35.07	-25.91	-	74.90	121.06	46.16
11 485.97 ¹⁾	V	58.72	37.99	-50.07	-	46.64	74.00	27.36
17 232.02	V	66.70	41.21	-47.71	-	60.20	68.20	8.00
Average Data								
1 540.07 ¹⁾	V	68.39	28.25	-50.05	0.22	46.81	54.00	7.19

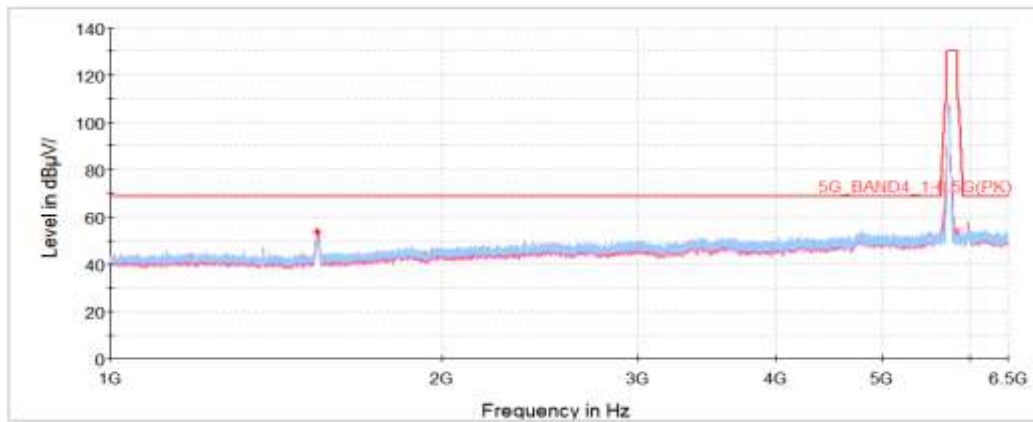
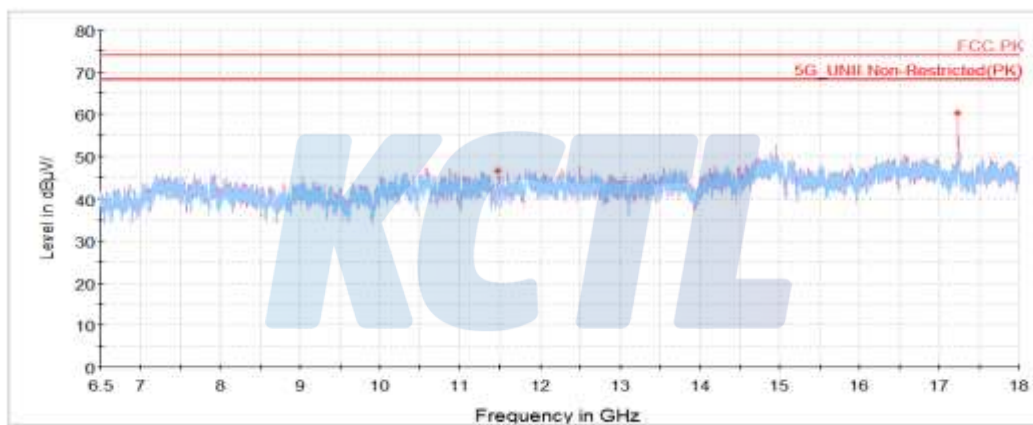
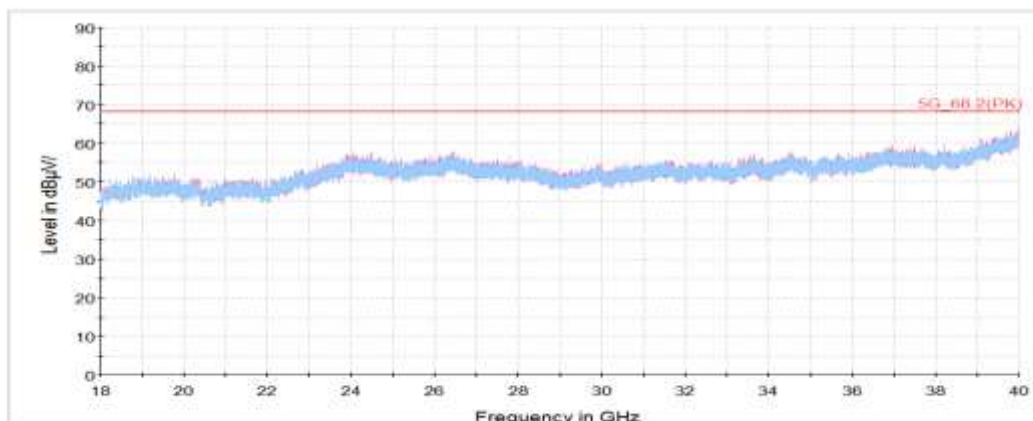
Average data (1 540.07 MHz)

Blank

Horizontal/Vertical for Band-edge

This test report shall not be reproduced, except in full, without the written approval

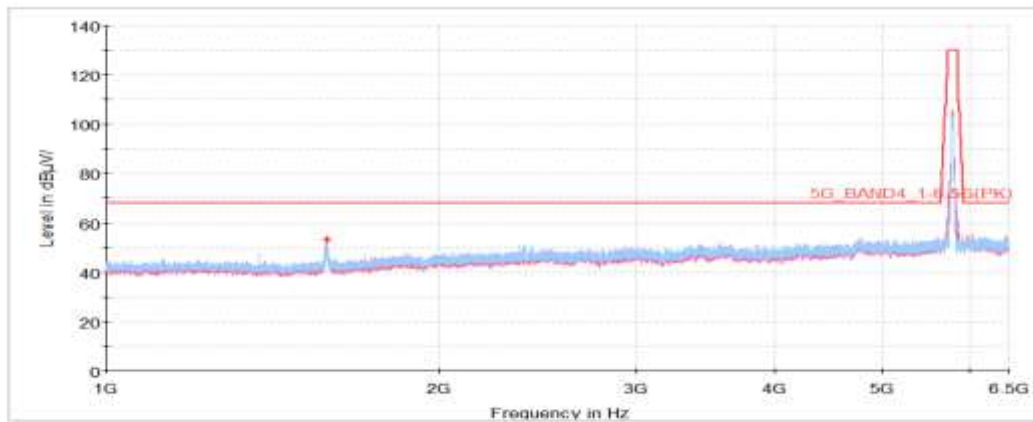
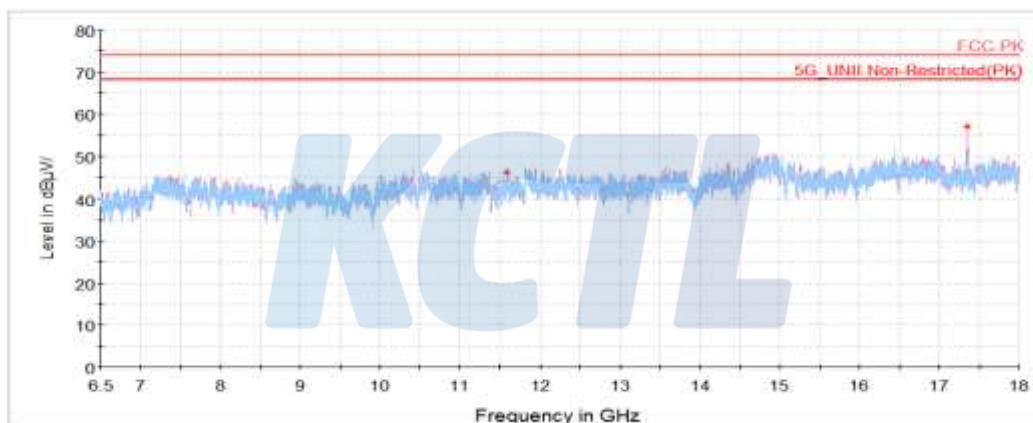
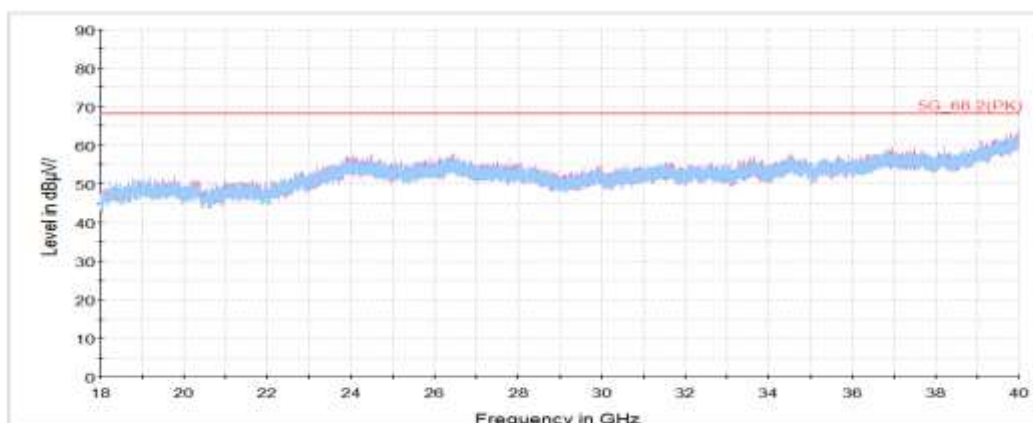
KCTL-TIR001-003/2

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 785 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 597.02 ¹⁾	V	58.08	38.12	-50.11	-	46.09	74.00	27.91
17 361.03	V	63.97	41.16	-48.15	-	56.98	68.20	11.22
Average Data								
No spurious emissions were detected within 20 dB of the limit.								



Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

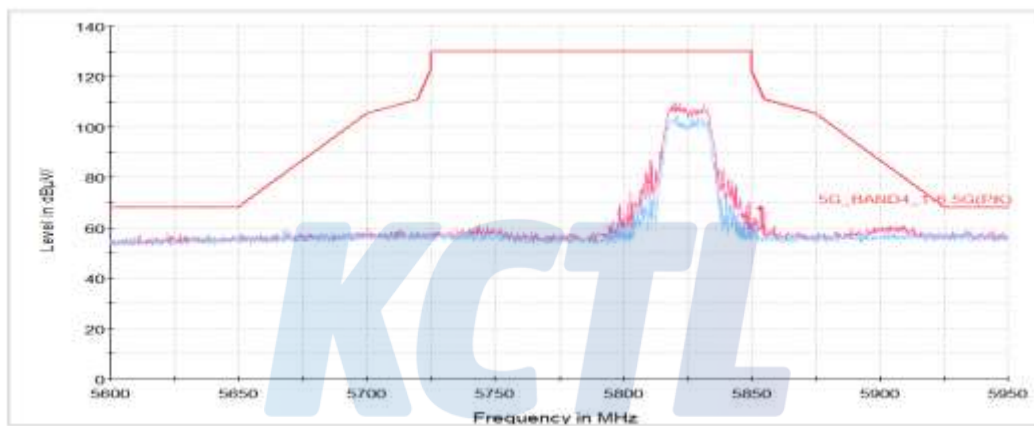
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

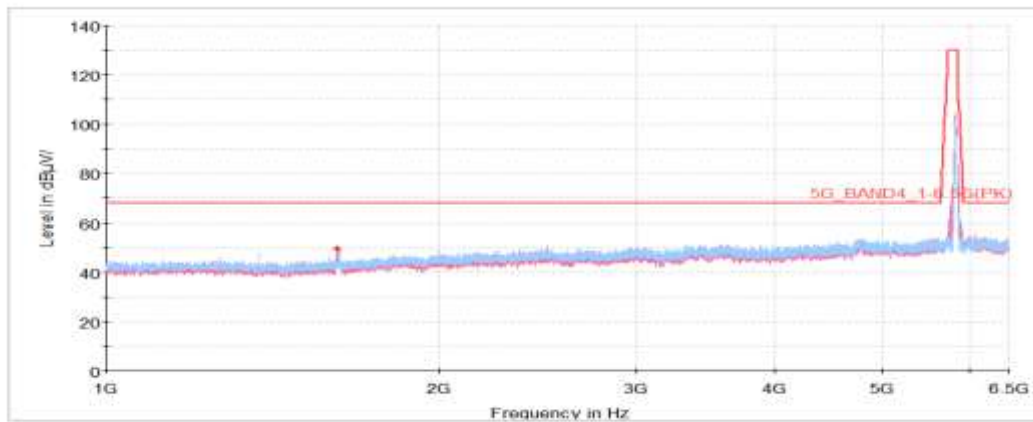
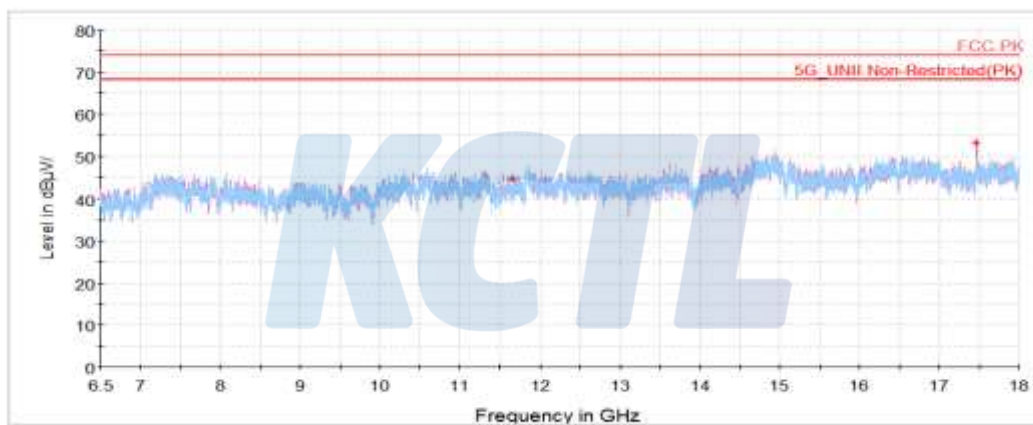
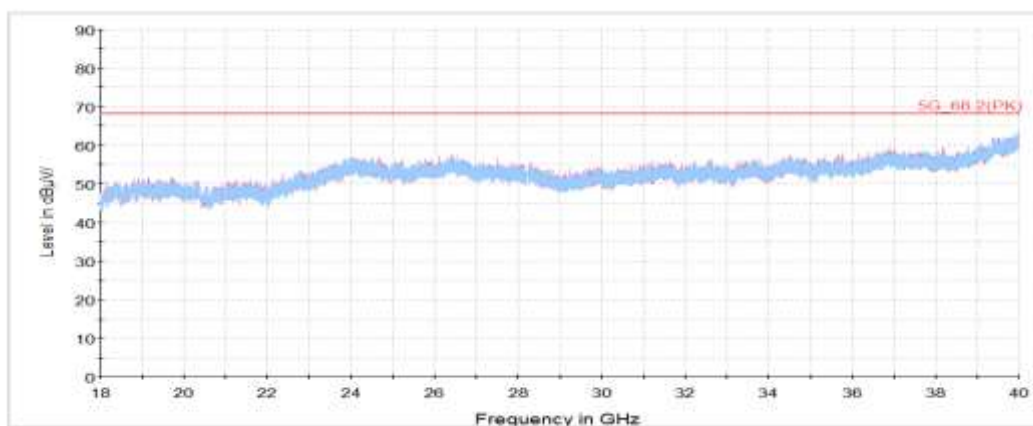
Report No.:
KR20-SRF0030-D

Page (926) of (1046)

**Highest Channel (5 825 MHz)**

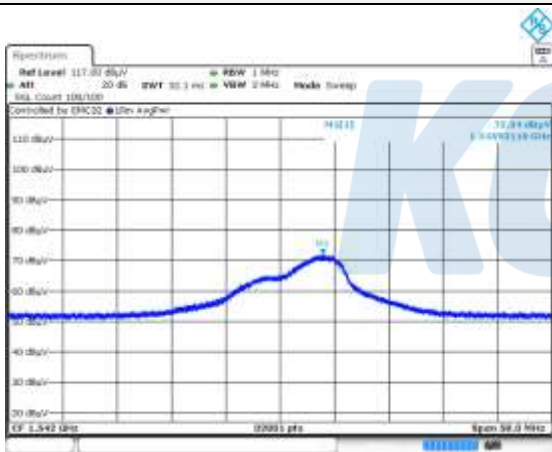
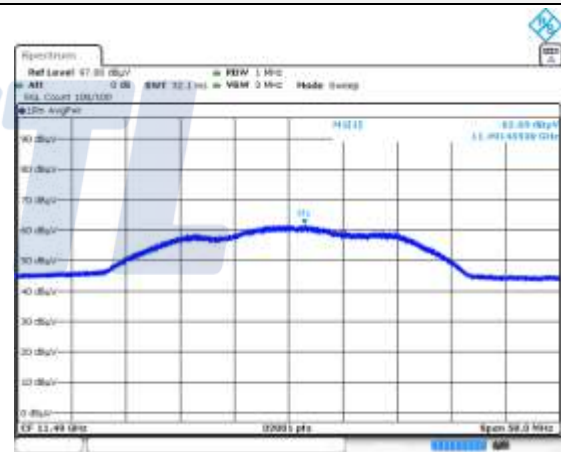
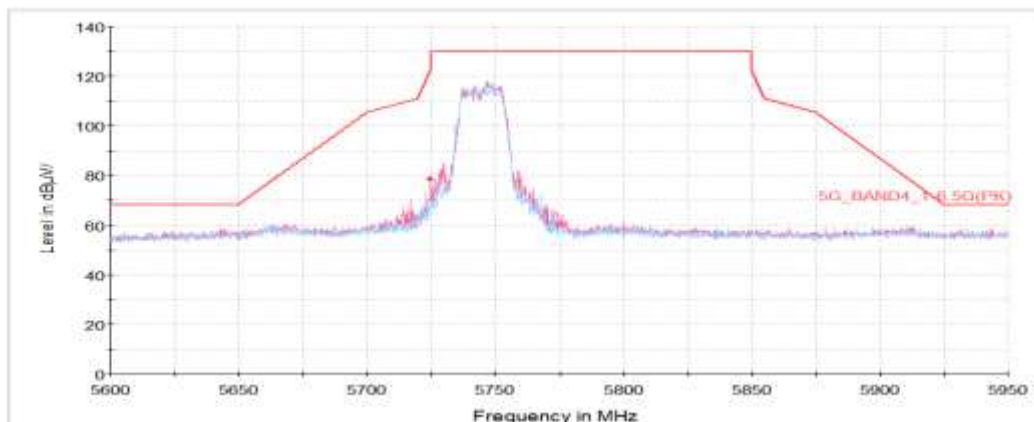
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 853.41	V	58.91	35.22	-26.66	-	67.47	114.43	46.96
11 660.27 ¹⁾	V	56.54	38.19	-50.15	-	44.58	74.00	29.42
17 458.42	V	60.62	41.12	-48.49	-	53.25	68.20	14.95
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

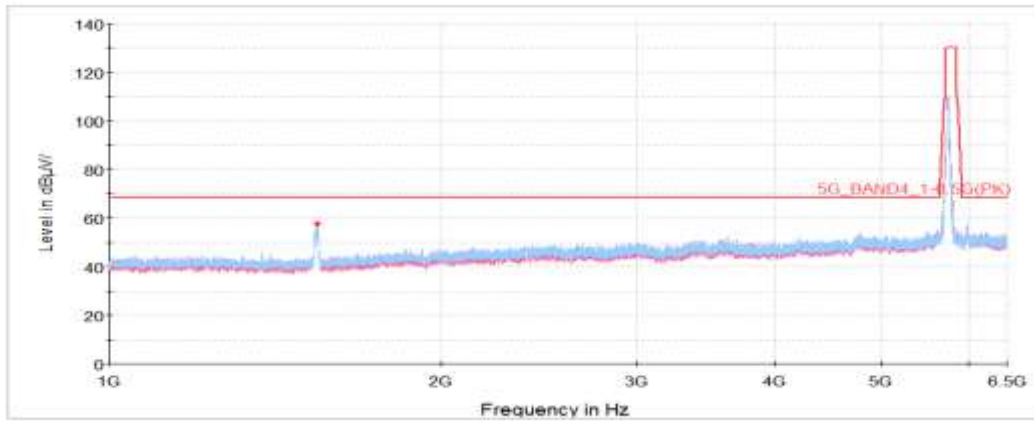
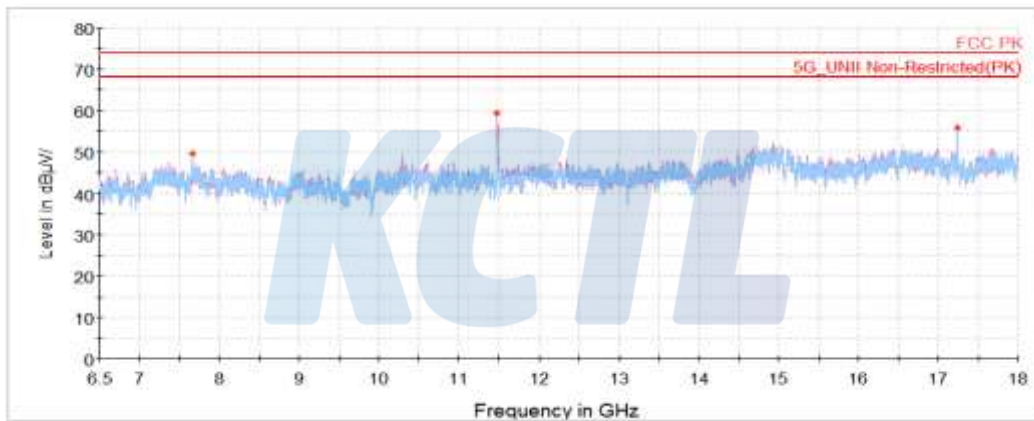
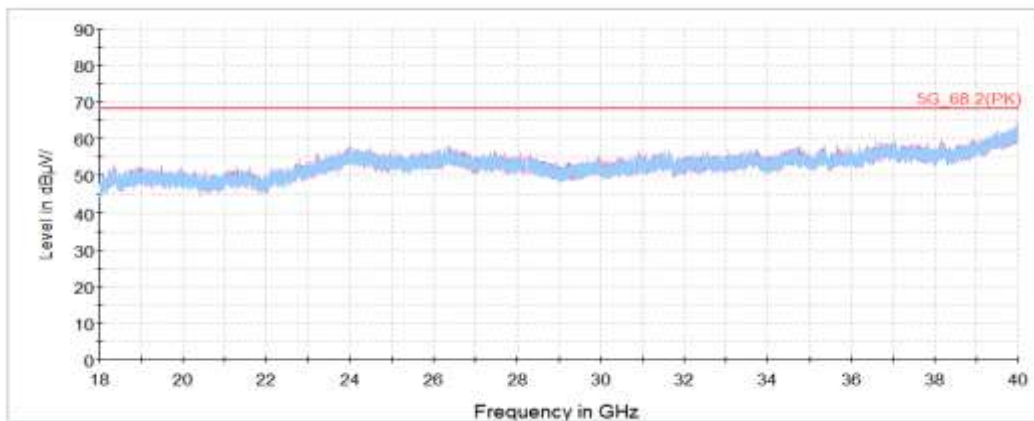
Horizontal/Vertical for Band-edge

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 3 4TX MIMO**Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
1 545.93 ¹⁾	V	79.36	28.28	-50.06	-	57.58	74.00	16.42
5 724.84	V	69.20	35.07	-25.91	-	78.36	121.84	43.48
11 491.46 ¹⁾	V	71.29	37.99	-50.06	-	59.22	74.00	14.78
17 239.20	V	62.37	41.20	-47.73	-	55.84	68.20	12.36
Average Data								
1 545.93 ¹⁾	V	72.04	28.28	-50.06	0.22	50.48	54.00	3.52
11 491.46 ¹⁾	V	62.09	37.99	-50.06	0.22	50.24	54.00	3.76

Average data (1 545.93 MHz)**Average data (11 491.46 MHz)****Horizontal/Vertical for Band-edge**

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

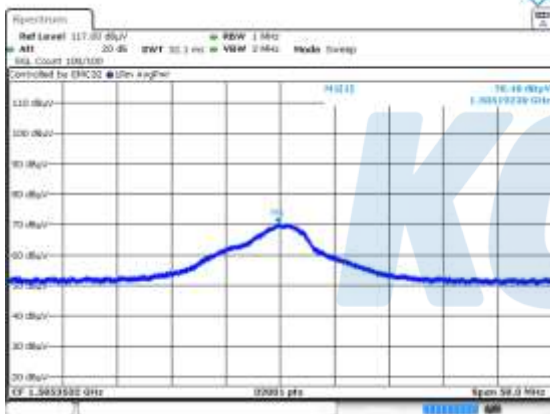
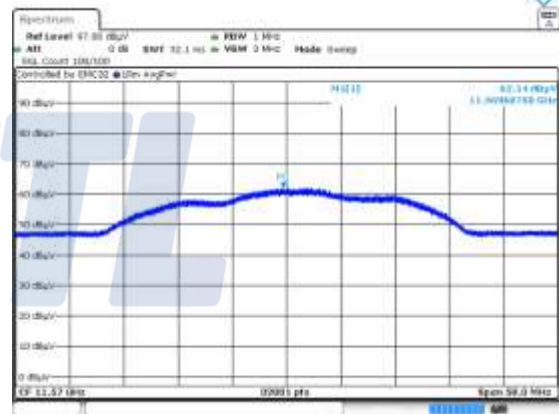
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

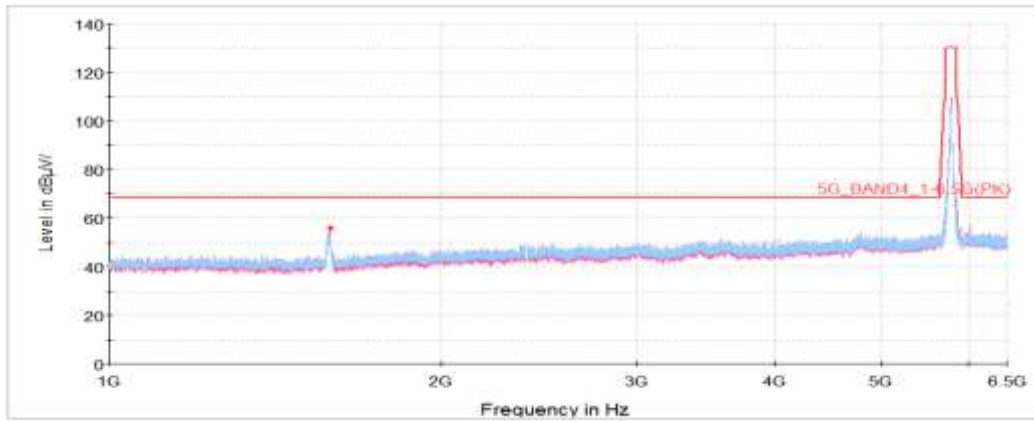
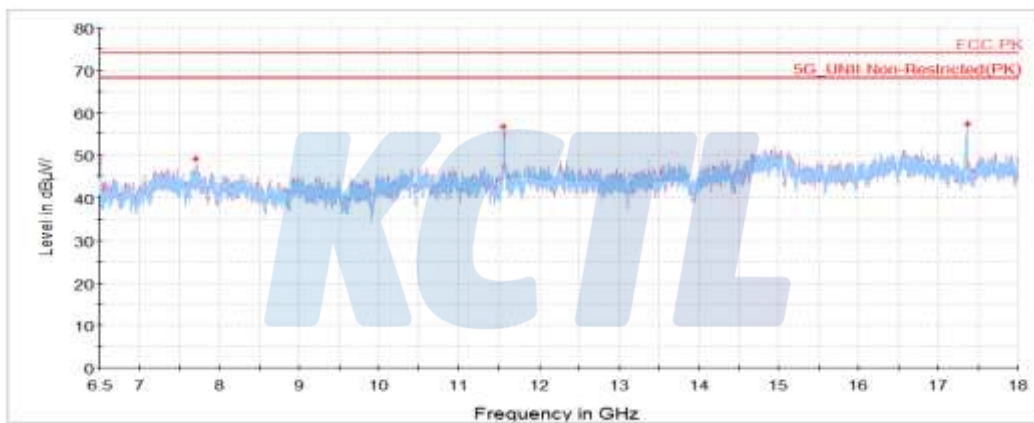
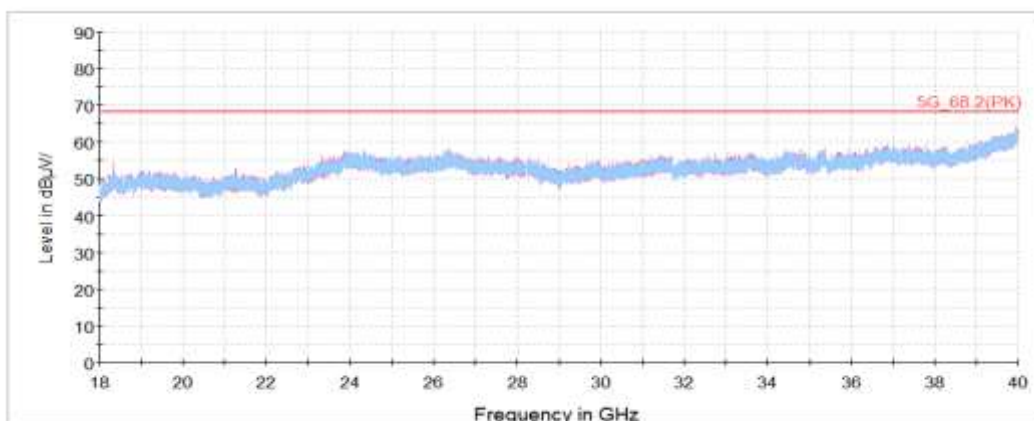
Report No.:
KR20-SRF0030-D

Page (930) of (1046)

**Middle Channel (5 785 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 585.19 ¹⁾	V	77.45	28.53	-50.09	-	55.89	74.00	18.11
7 713.25	H	64.20	35.57	-50.63	-	49.14	74.00	24.86
11 569.34 ¹⁾	V	68.80	38.08	-50.10	-	56.78	74.00	17.22
17 363.55	V	64.29	41.15	-48.16	-	57.28	68.20	10.92
Average Data								
1 585.19 ¹⁾	V	70.48	28.53	-50.09	0.22	49.14	54.00	4.86
11 569.34 ¹⁾	V	62.14	38.08	-50.10	0.22	50.34	54.00	3.66

Average data (1 585.19 MHz)**Average data (11 569.34 MHz)**

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

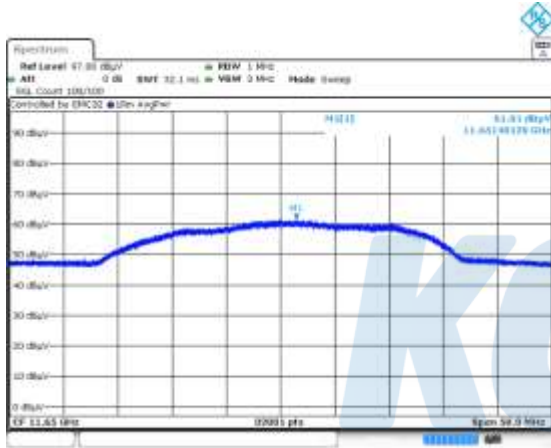
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

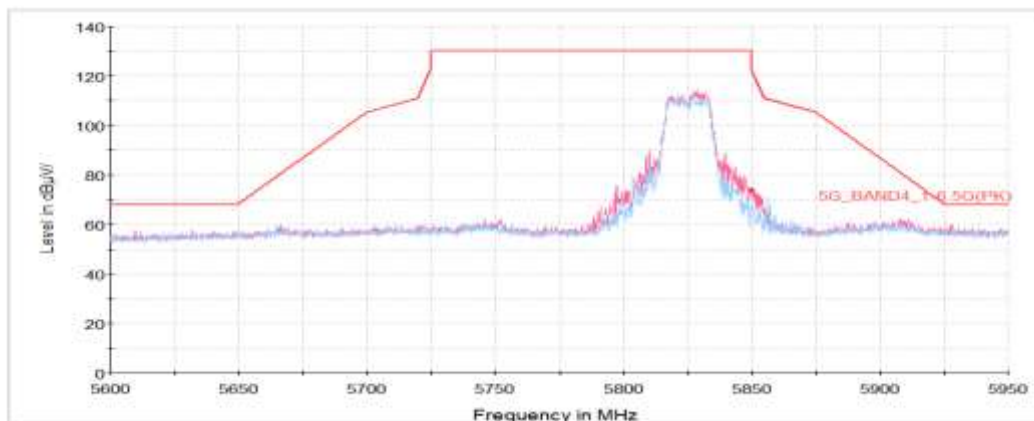
Page (932) of (1046)

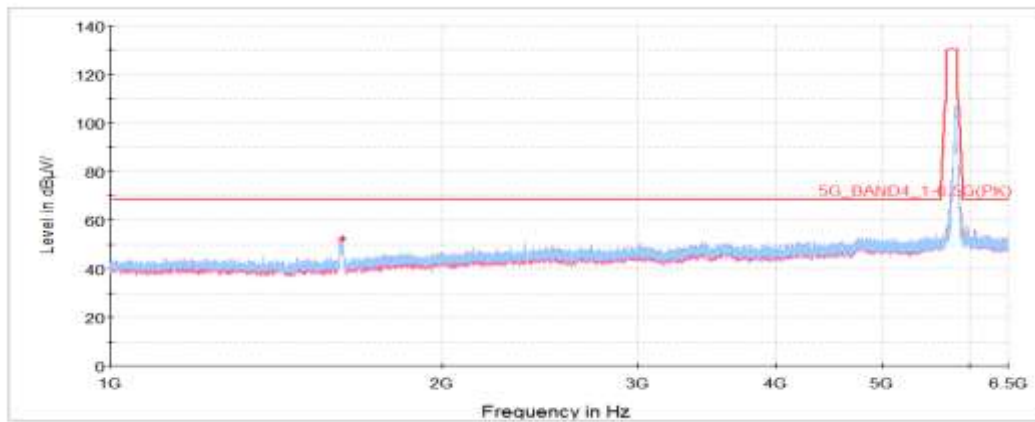
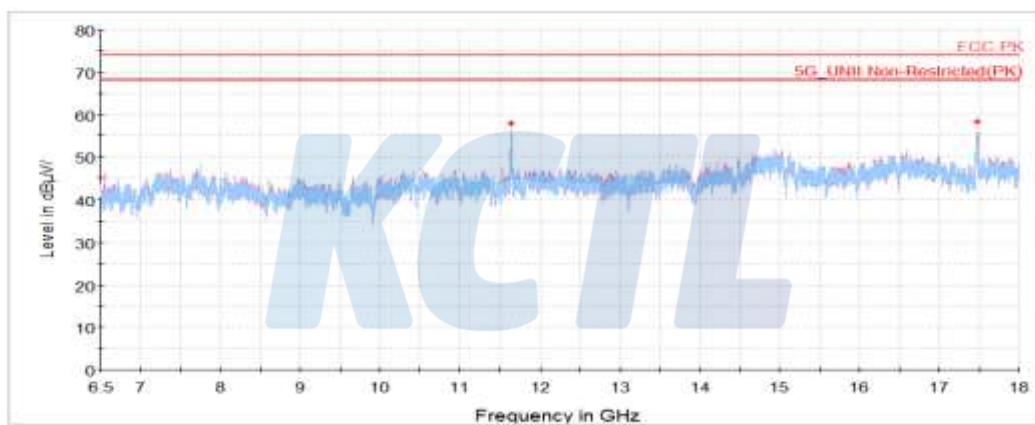
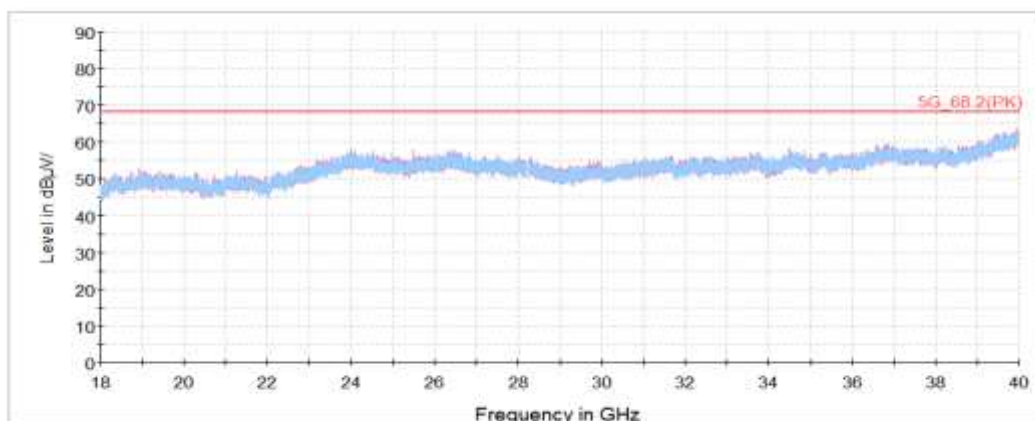
**Highest Channel (5 825 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 850.14	V	65.05	35.22	-26.68	-	73.59	121.88	48.29
11 651.48 ¹⁾	V	69.76	38.18	-50.15	-	57.79	74.00	16.21
17 474.95	H	65.83	41.11	-48.55	-	58.39	68.20	9.81
Average Data								
11 651.48 ¹⁾	V	61.81	38.18	-50.15	0.22	50.06	54.00	3.94

Average data (11 651.48 MHz)

Blank

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

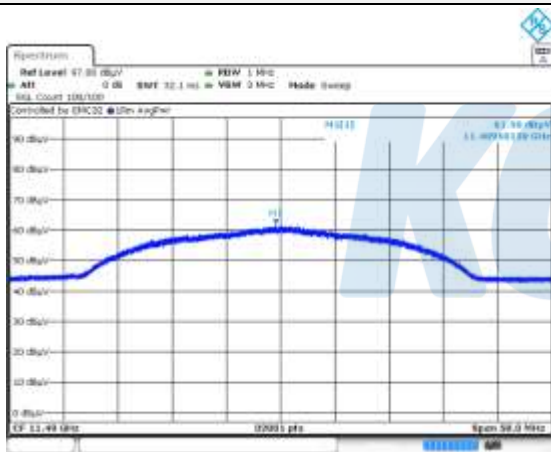
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

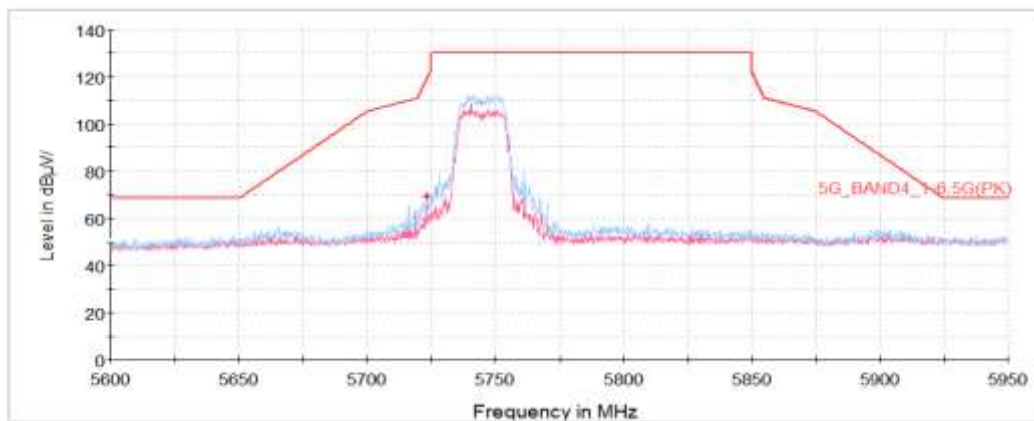
Page (934) of (1046)

**802.11n HT20 UNII 3 ANT 0****Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 723.47	V	60.10	35.07	-25.90	-	69.27	118.71	49.44
7 659.70 ¹⁾	V	65.52	35.53	-50.56	-	50.49	74.00	23.51
11 491.76 ¹⁾	V	68.06	38.00	-50.06	-	56.00	74.00	18.00
17 241.36	H	57.77	41.20	-47.74	-	51.23	68.20	16.97
Average Data								
11 491.76 ¹⁾	V	61.90	38.00	-50.06	0.22	50.06	54.00	3.94

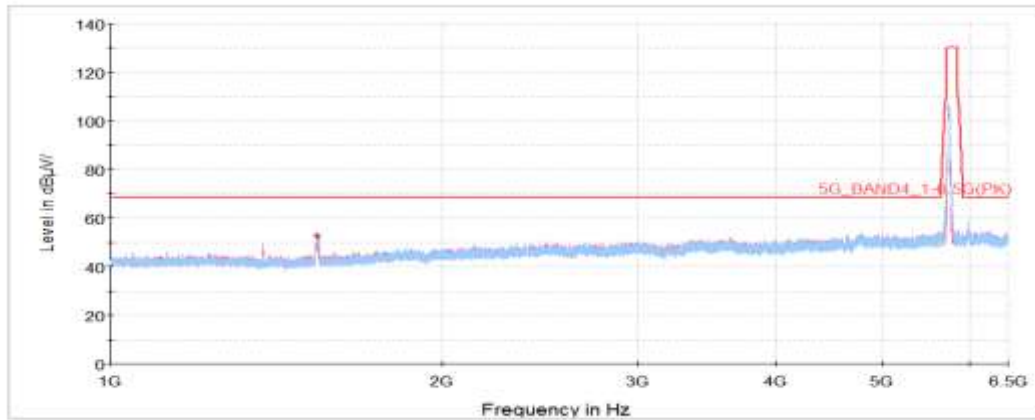
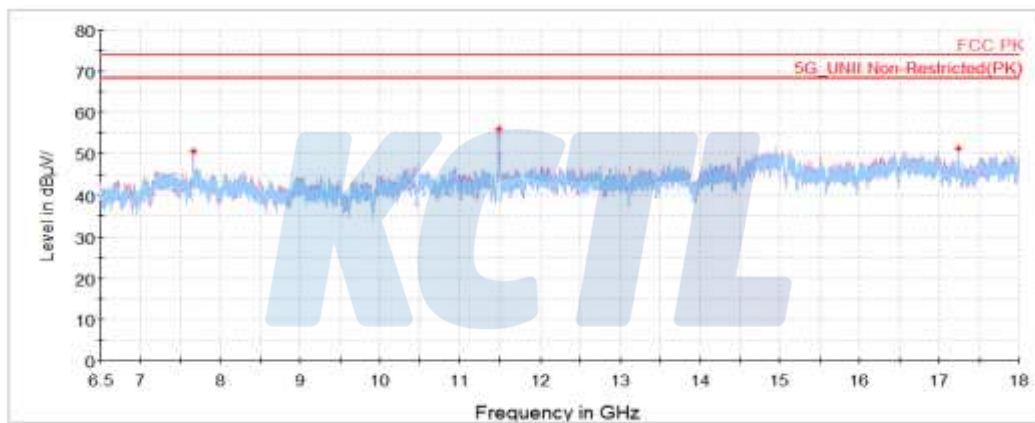
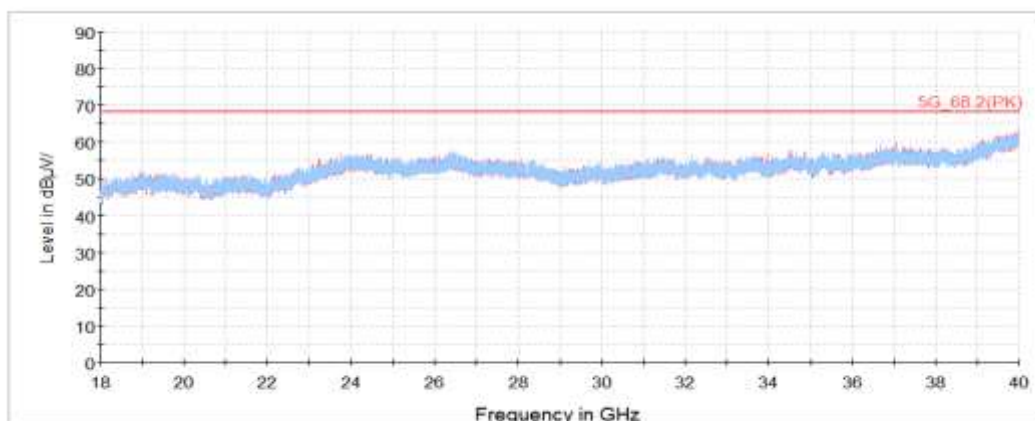
Average data (11 491.76 MHz)

Blank

Horizontal/Vertical for Band-edge

This test report shall not be reproduced, except in full, without the written approval

KCTL-TIR001-003/2

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

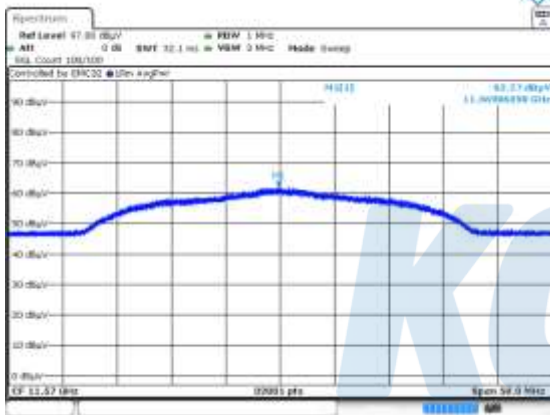
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

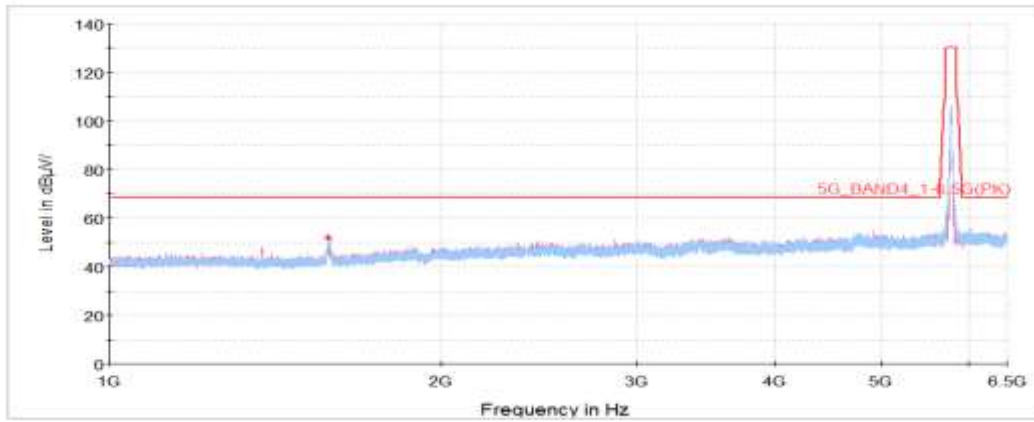
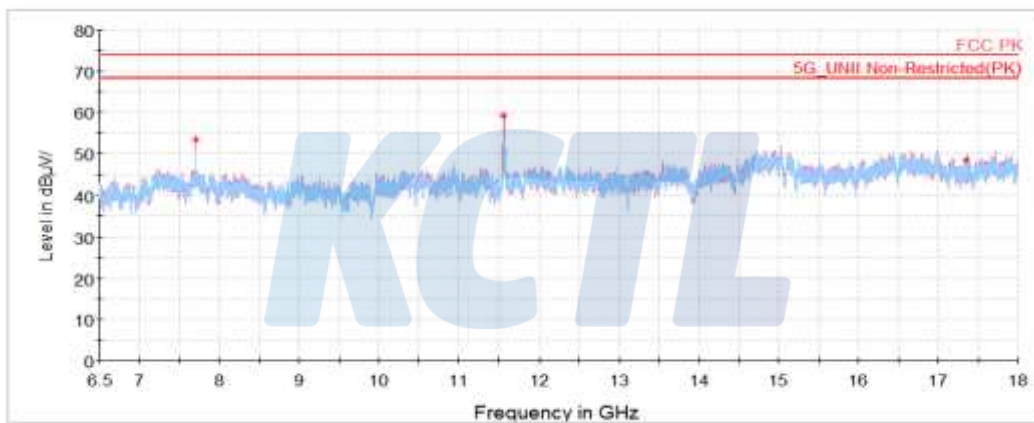
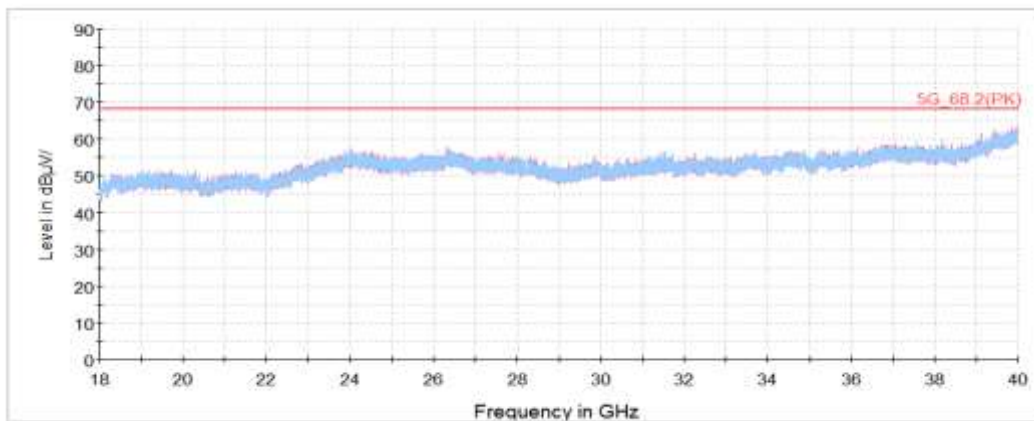
Page (936) of (1046)

**Middle Channel (5 785 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 569.86 ¹⁾	V	71.20	38.08	-50.10	-	59.18	74.00	14.82
11 569.86 ¹⁾	V	62.27	38.08	-50.10	0.22	50.47	54.00	3.53
17 353.84	H	55.34	41.16	-48.13	-	48.37	68.20	19.83
Average Data								
11 569.86 ¹⁾	V	62.27	38.08	-50.10	0.22	50.47	54.00	3.53

Average data (10 568.86 MHz)

Blank

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

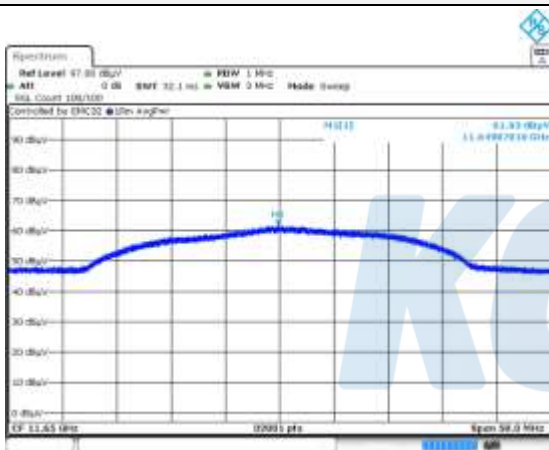
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

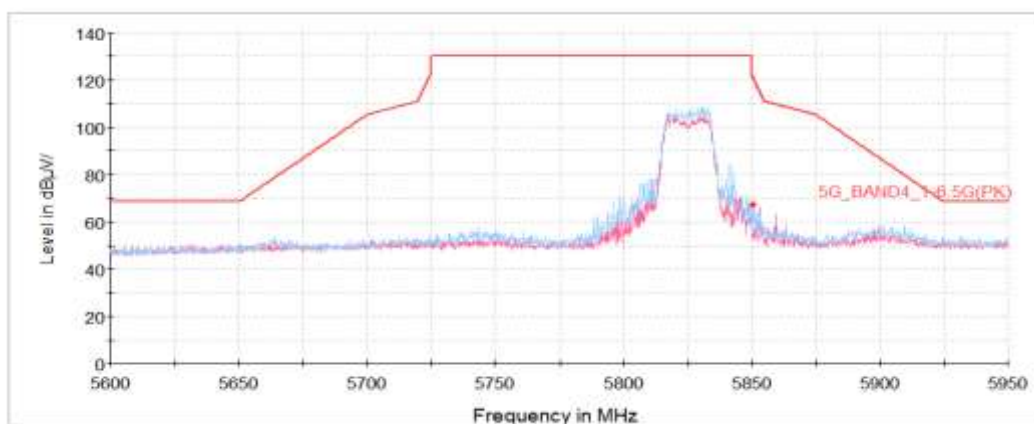
Page (938) of (1046)

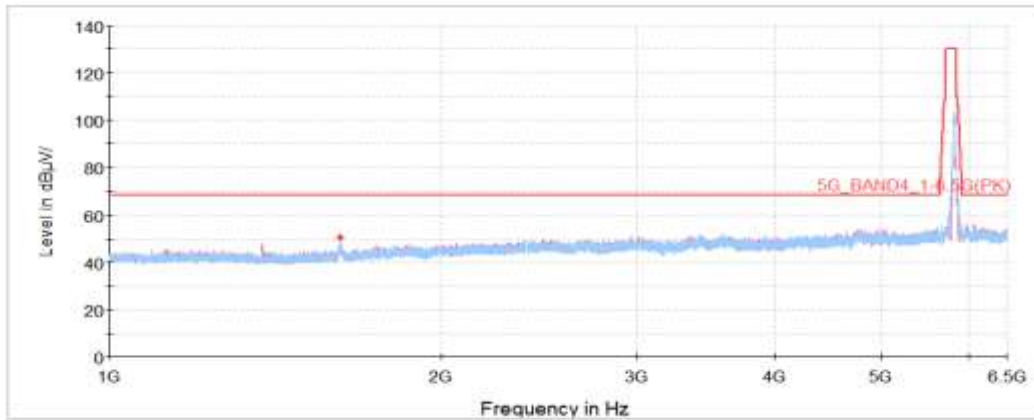
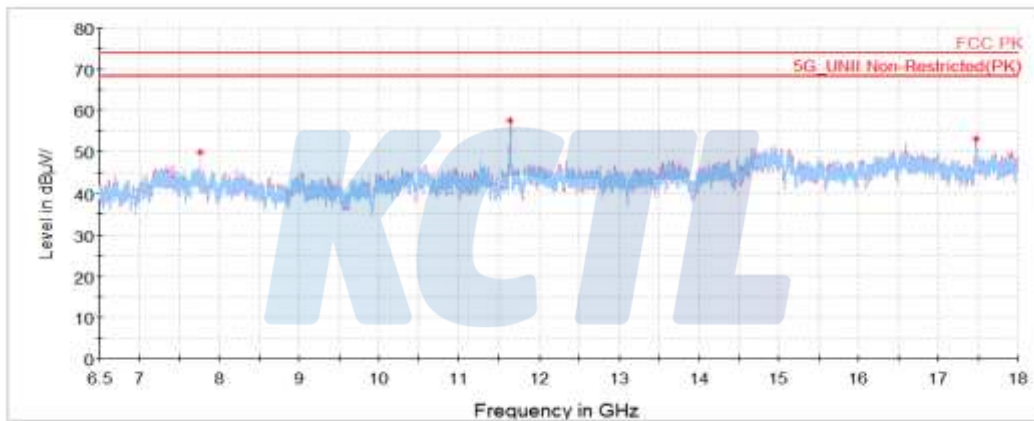
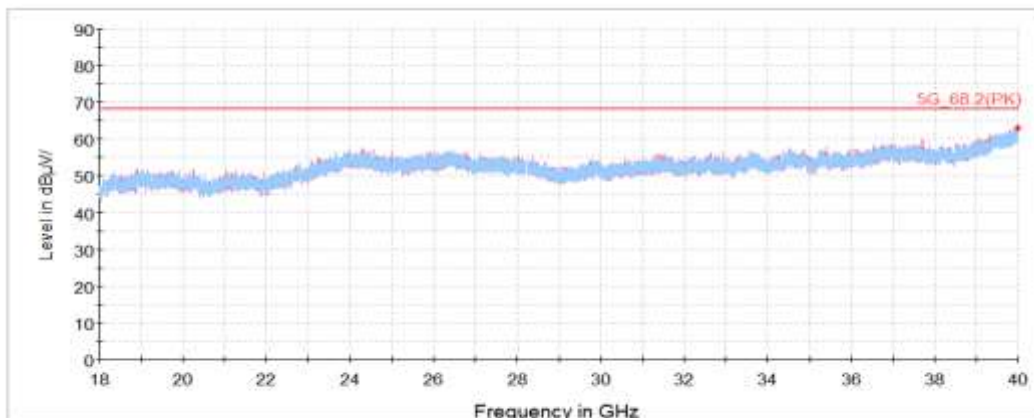
**Highest Channel (5 825 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 850.48	H	58.67	35.22	-26.68	-	67.21	121.10	53.89
7 766.44	H	64.93	35.61	-50.70	-	49.84	68.20	18.36
11 649.88 ¹⁾	V	69.51	38.18	-50.15	-	57.54	74.00	16.46
17 483.58	V	60.45	41.11	-48.57	-	52.99	68.20	15.21
Average Data								
11 649.88 ¹⁾	V	61.83	38.18	-50.15	0.22	50.08	54.00	3.92

Average data (11 649.88 MHz)

Blank

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

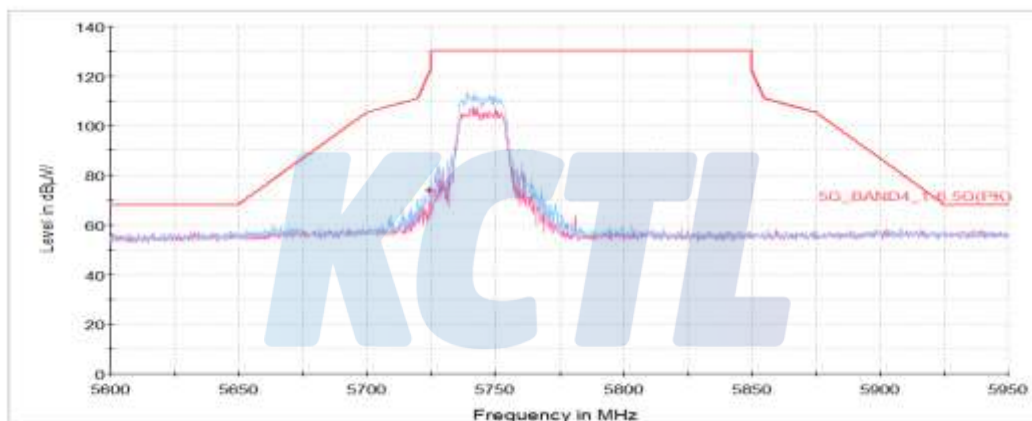
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

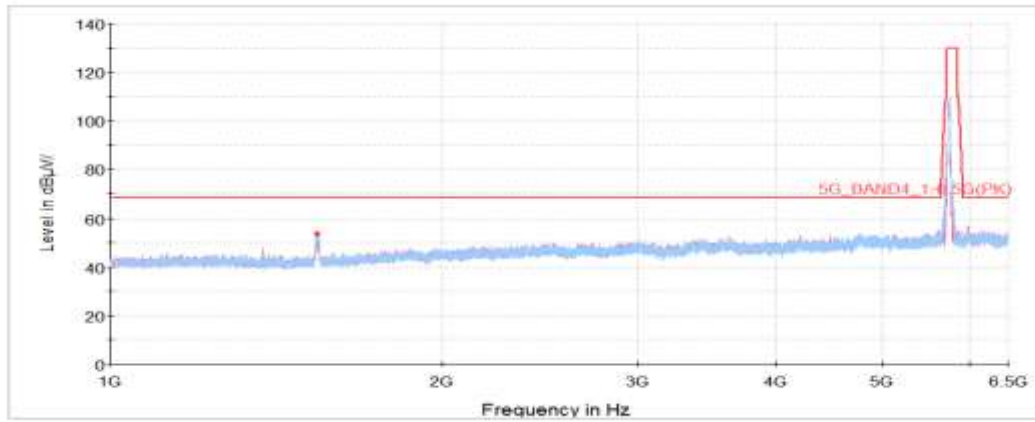
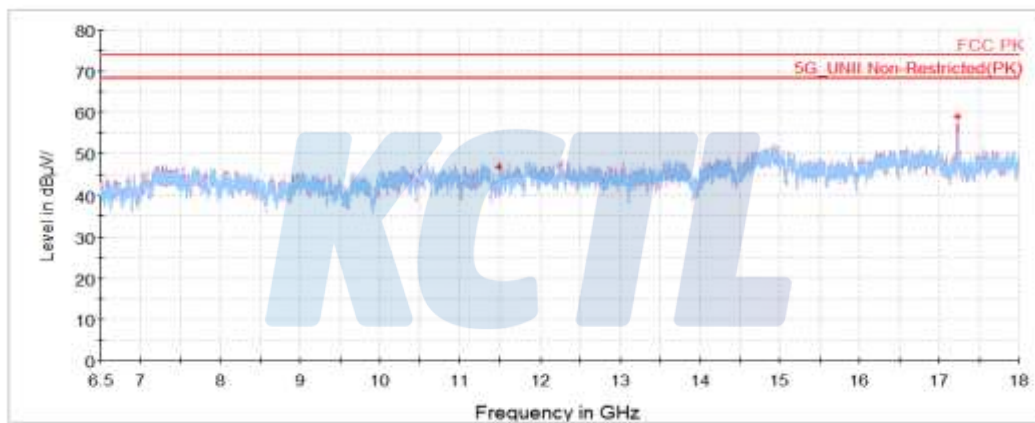
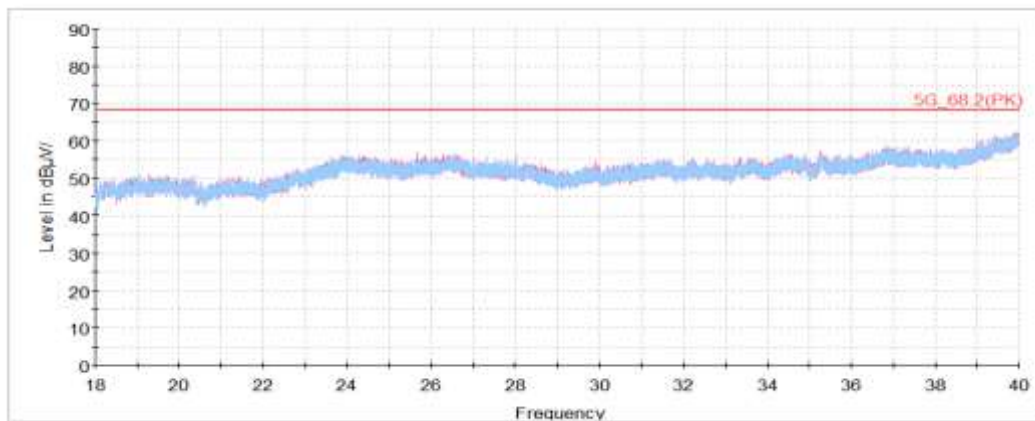
Report No.:
KR20-SRF0030-D

Page (940) of (1046)

KCTL**802.11n HT20 UNII 3 ANT 1****Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 724.16	H	64.65	35.07	-25.91	-	73.81	120.28	46.47
11 498.19 ¹⁾	V	58.83	38.00	-50.05	-	46.78	74.00	27.22
17 228.42	V	65.39	41.21	-47.70	-	58.90	68.20	9.30
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

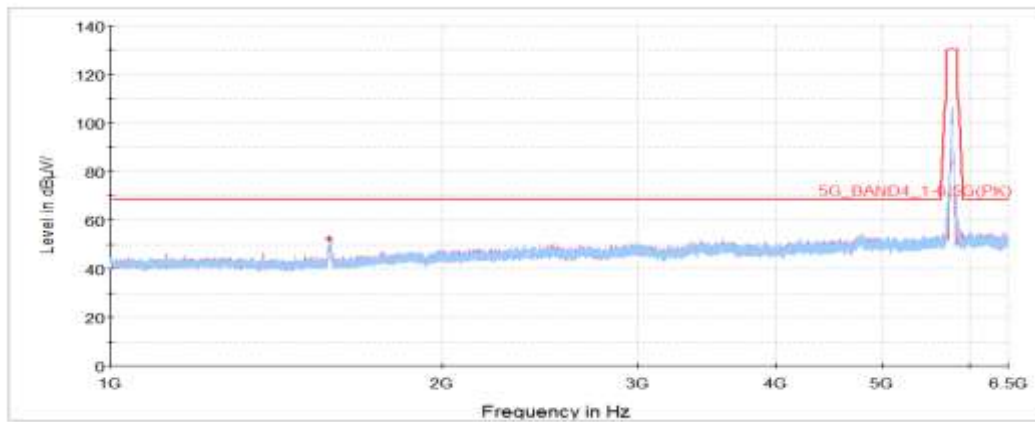
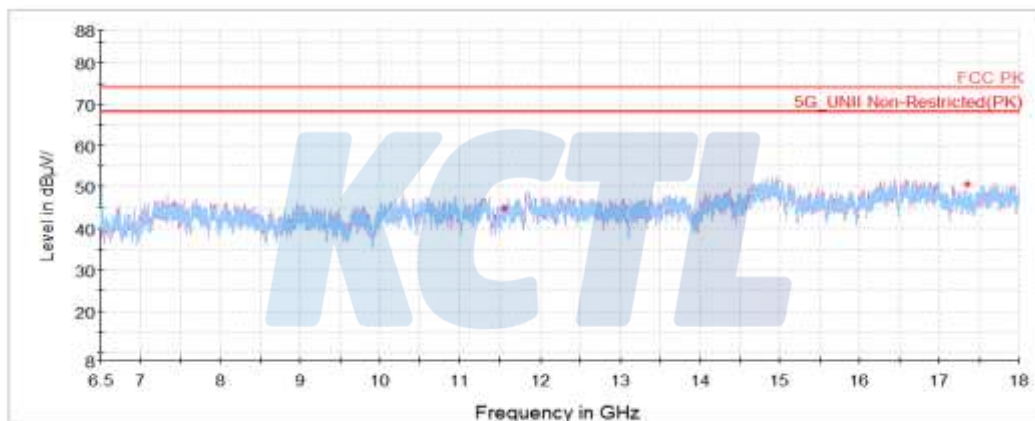
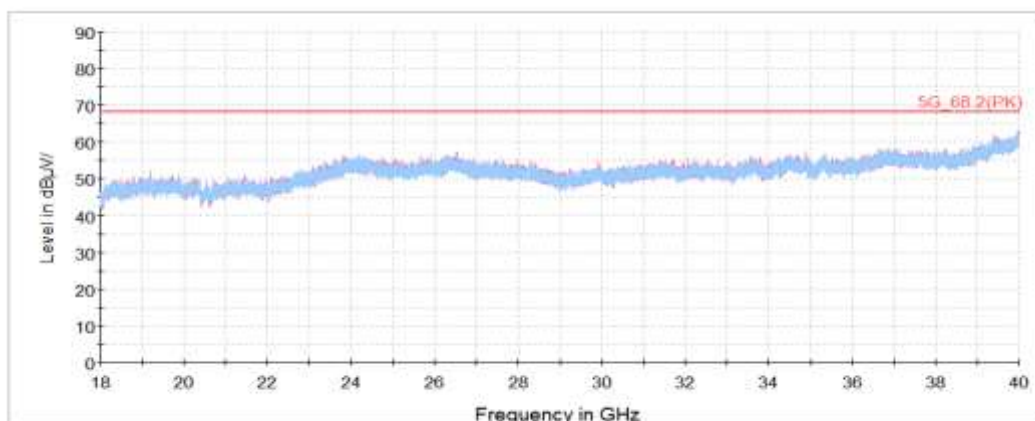
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 785 MHz)

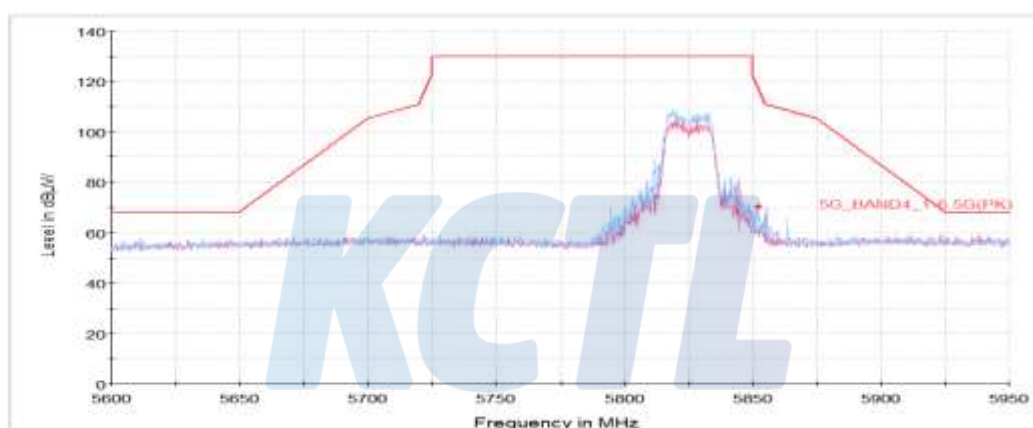
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 570.06 ¹⁾	V	56.80	38.08	-50.10	-	44.78	74.00	29.22
17 358.16	H	57.60	41.16	-48.14	-	50.62	68.20	17.58
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

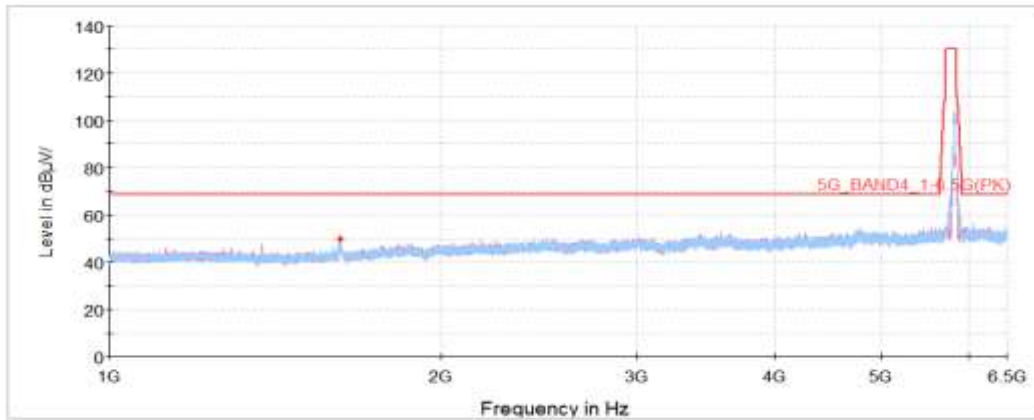
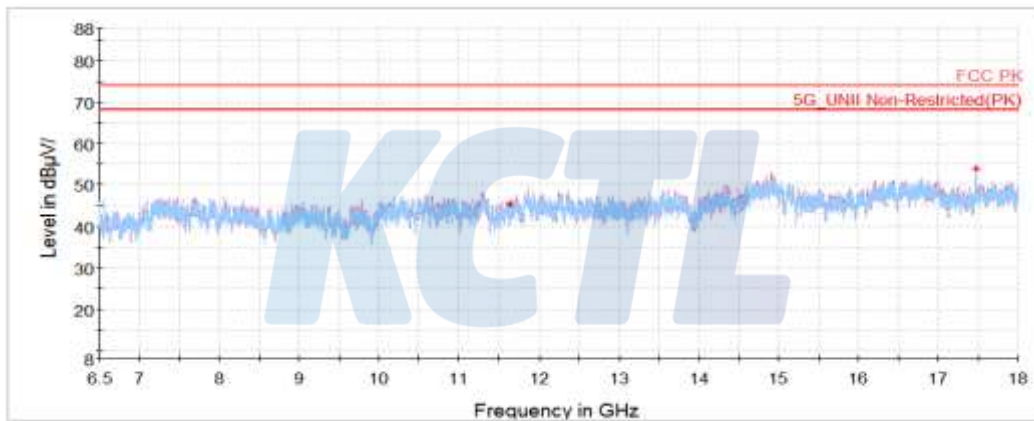
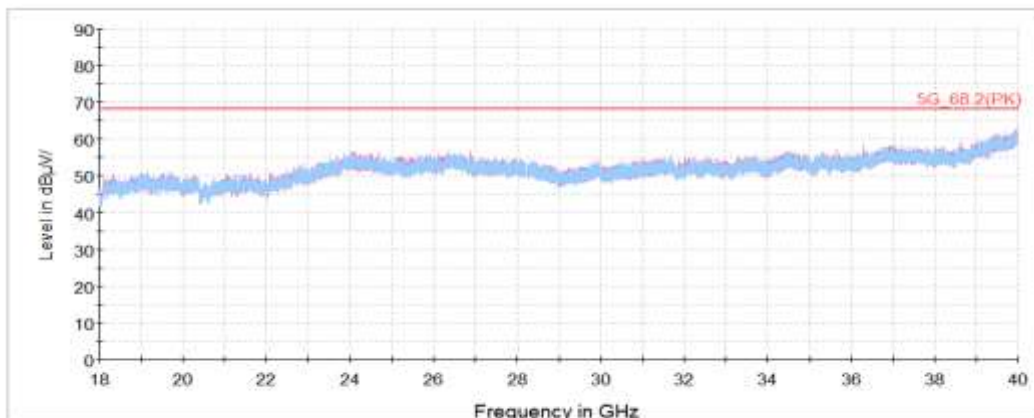
KCTL

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 825 MHz)

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Antenna Factor (dB)	Amp. + Cable (dB)	DCCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
5 852.03	H	61.60	35.22	-26.67	-	70.15	117.57	47.42
11 650.56 ¹⁾	V	57.10	38.18	-50.15	-	45.13	74.00	28.87
17 478.55	H	61.41	41.11	-48.56	-	53.96	68.20	14.24
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

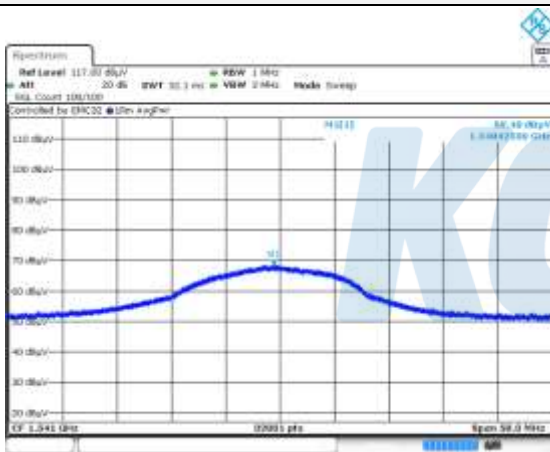
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

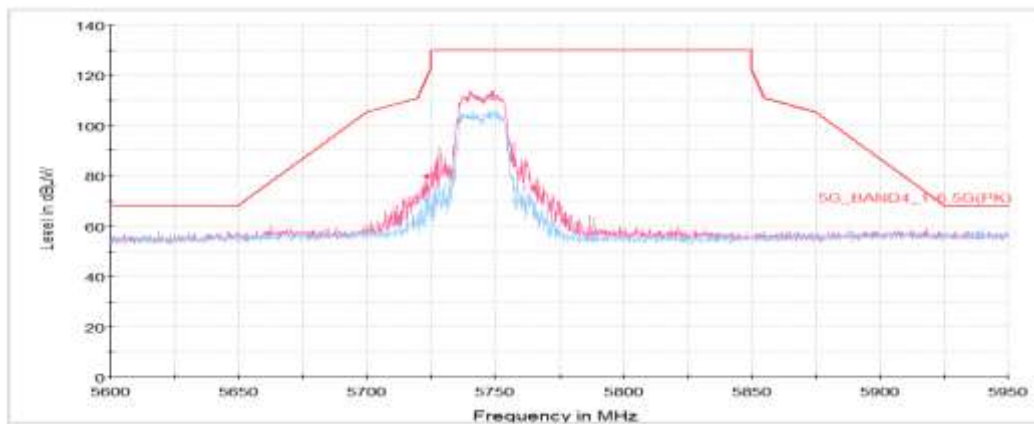
Page (946) of (1046)

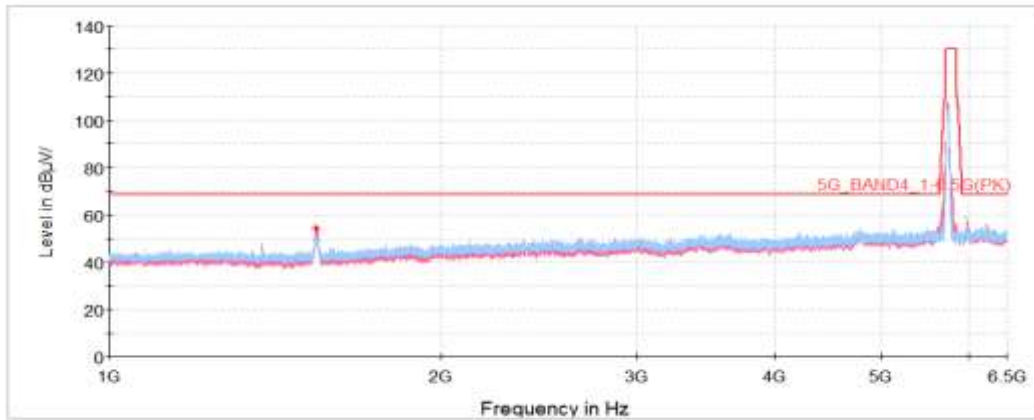
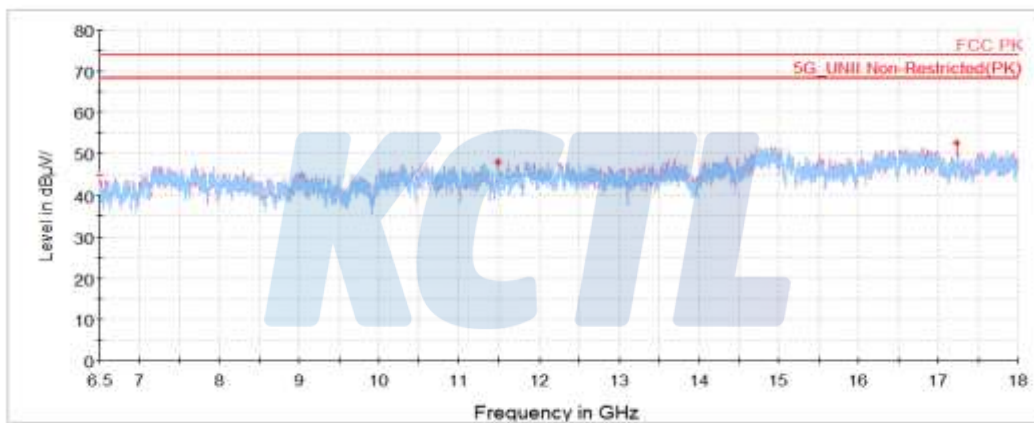
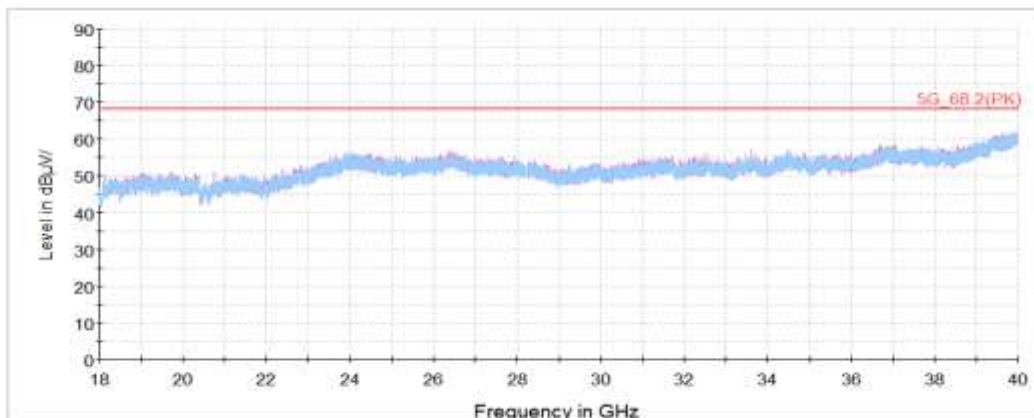
**802.11n HT20 UNII 3 ANT 2****Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 540.43 ¹⁾	V	76.41	28.25	-50.05	-	54.61	74.00	19.39
5 723.64	V	70.46	35.07	-25.9	-	79.63	119.10	39.47
11 491.00 ¹⁾	V	59.95	37.99	-50.06	-	47.88	74.00	26.12
17 234.89	V	59.18	41.21	-47.72	-	52.67	68.20	15.53
Average Data								
1 540.43 ¹⁾	V	68.48	28.25	-50.05	0.22	46.90	54.00	7.10

Average data (1 540.43 MHz)

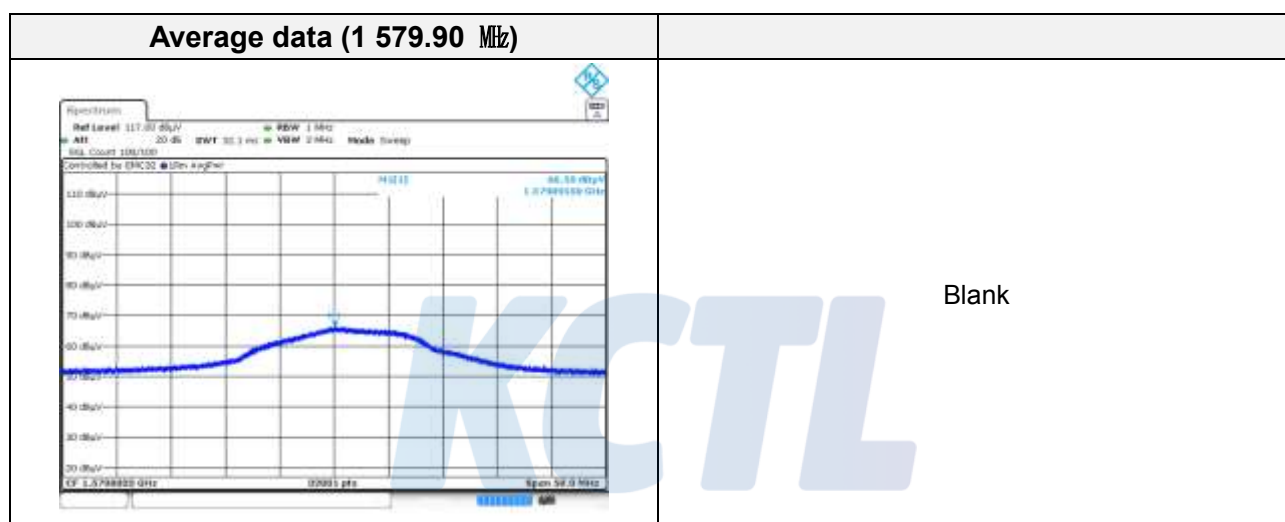
Blank

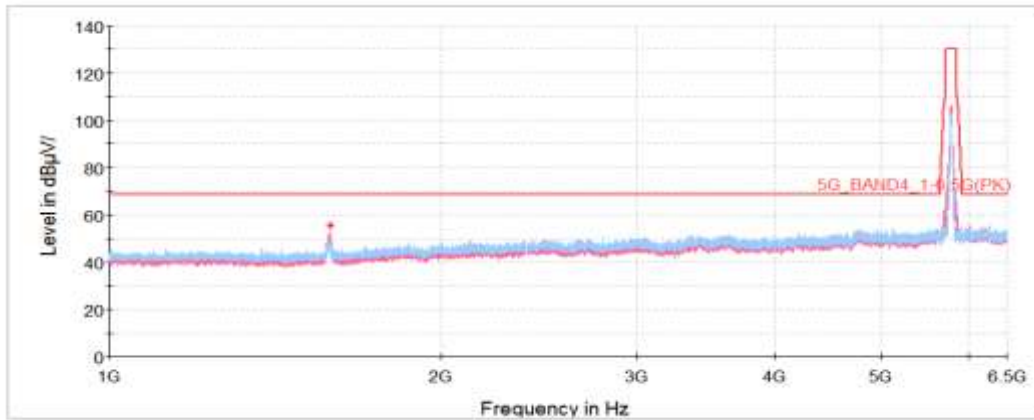
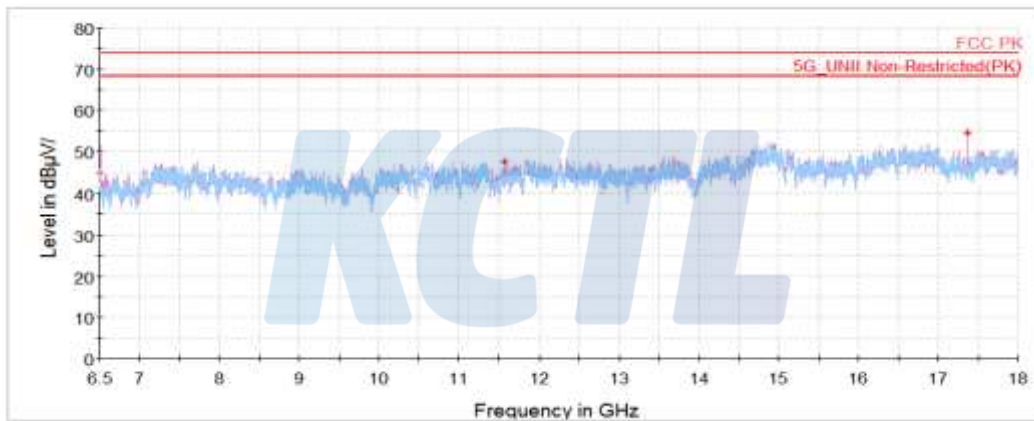
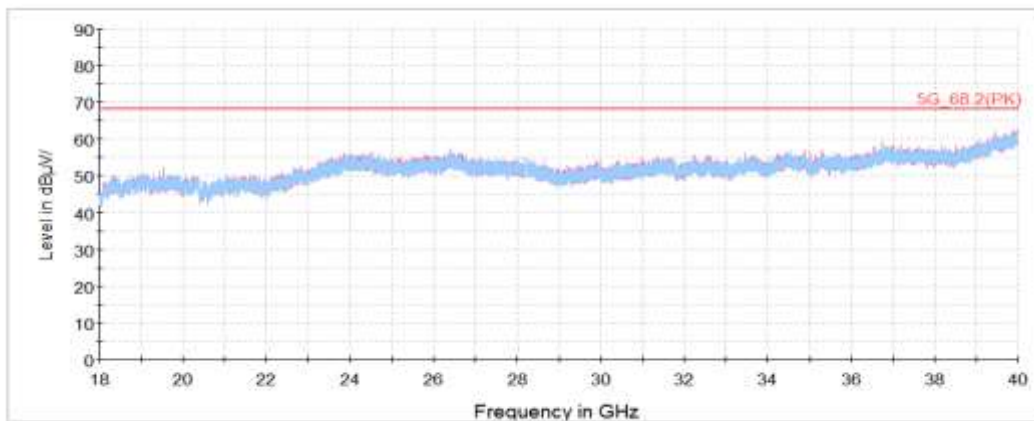
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 785 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 579.90 ¹⁾	V	77.08	28.50	-50.09	-	55.49	74.00	18.51
11 574.73 ¹⁾	V	59.56	38.09	-50.10	-	47.55	74.00	26.45
17 362.83	V	61.58	41.15	-48.16	-	54.57	68.20	13.63
Average Data								
1 579.90 ¹⁾	V	66.50	28.50	-50.09	0.22	45.13	54.00	8.87



Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

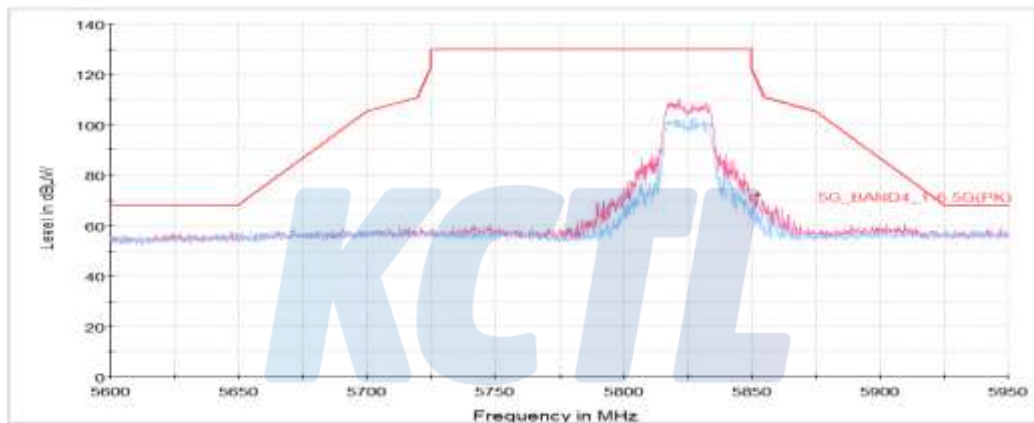
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

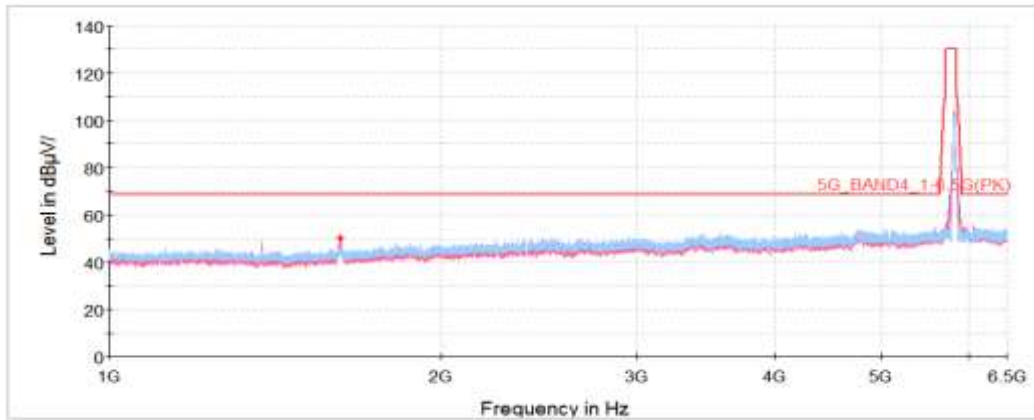
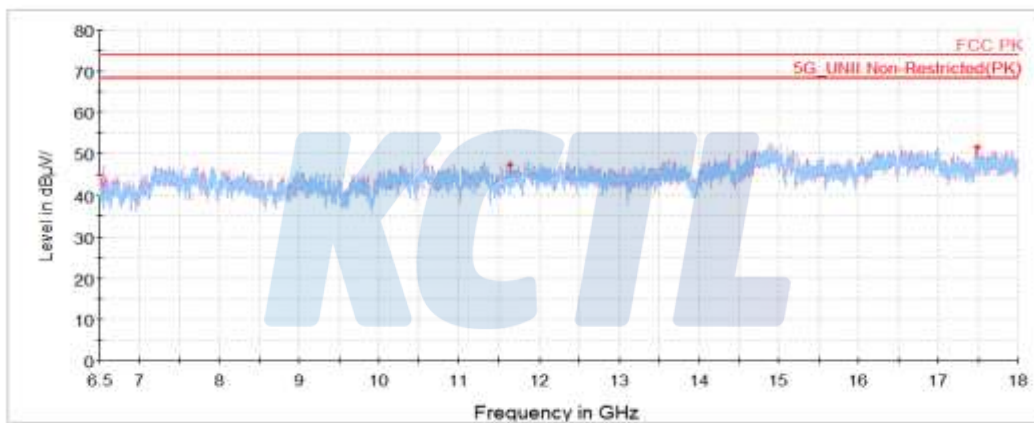
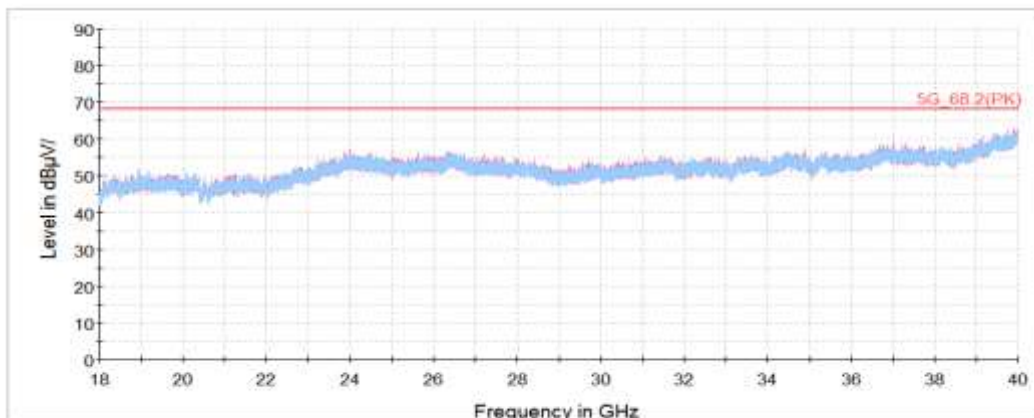
Report No.:
KR20-SRF0030-D

Page (950) of (1046)

**Highest Channel (5 825 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 852.20	V	63.50	35.22	-26.67	-	72.05	117.18	45.13
11 650.56 ¹⁾	V	59.10	38.18	-50.15	-	47.13	74.00	26.87
17 487.89	V	59.03	41.10	-48.59	-	51.54	68.20	16.66
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

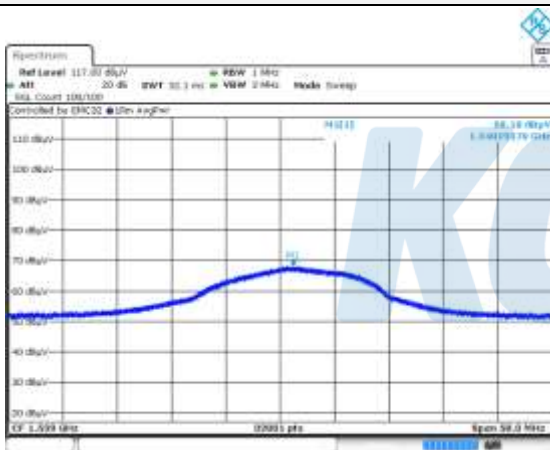
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

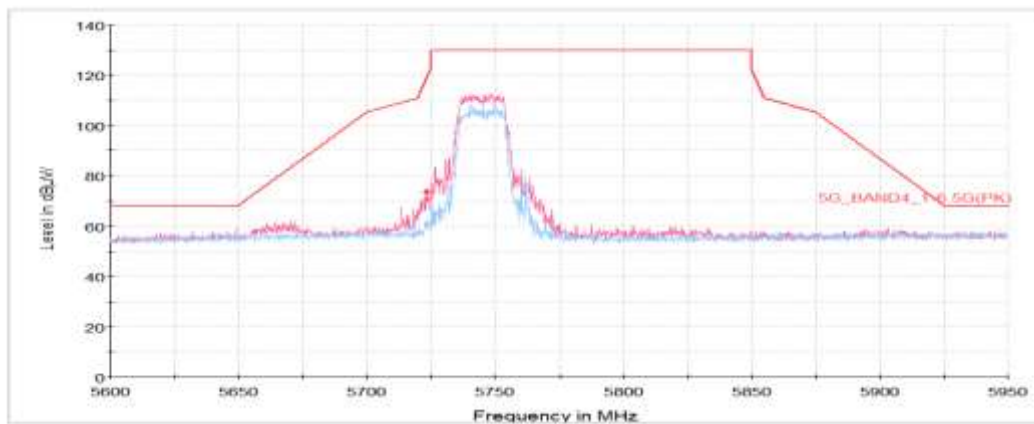
Page (952) of (1046)

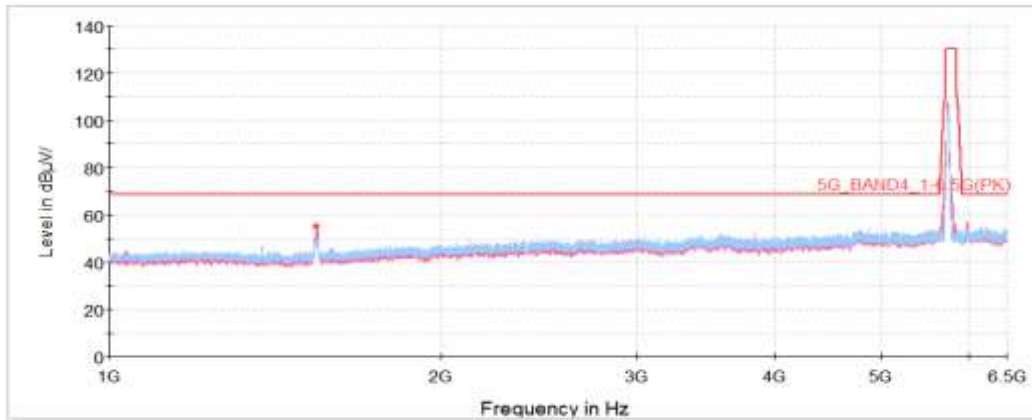
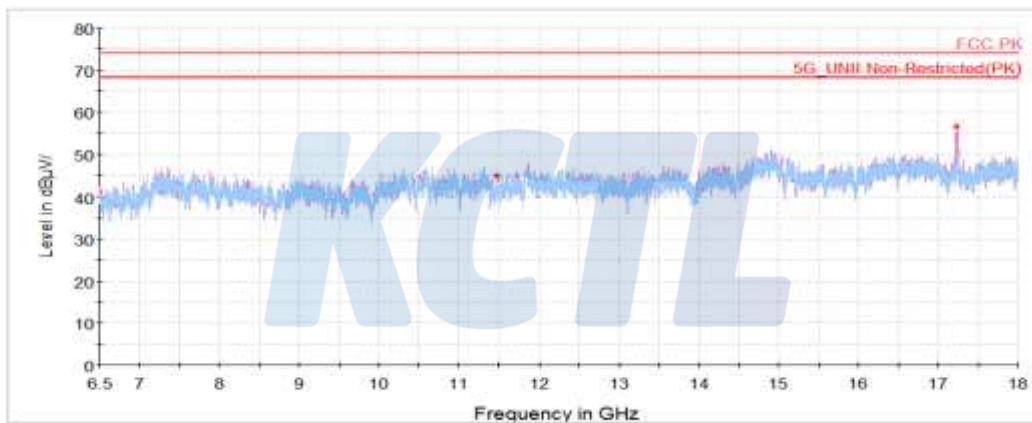
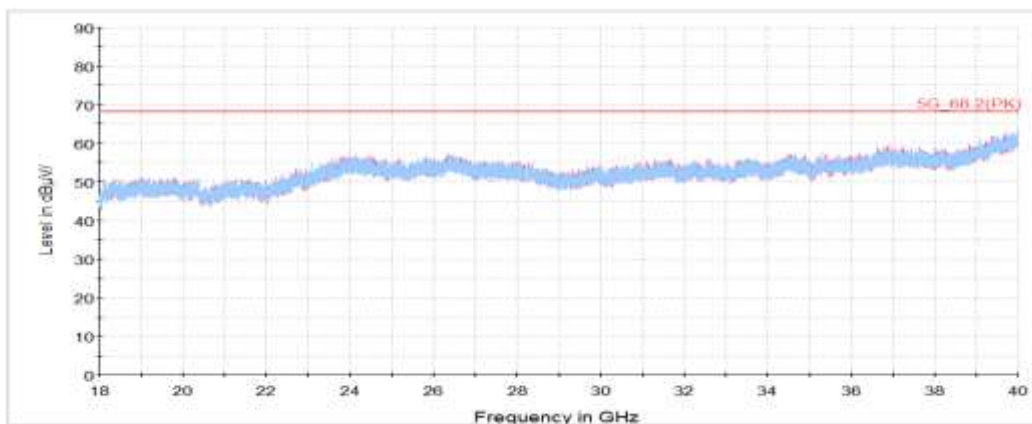
**802.11n HT20 UNII 3 ANT 3****Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 540.19 ¹⁾	V	77.10	28.25	-50.05	-	55.30	74.00	18.70
5 723.30	V	64.55	35.07	-25.89	-	73.73	118.32	44.59
11 487.77 ¹⁾	V	56.81	37.99	-50.07	-	44.73	74.00	29.27
17 232.73	V	63.09	41.21	-47.71	-	56.59	68.20	11.61
Average Data								
1 540.19 ¹⁾	V	68.18	28.25	-50.05	0.22	46.60	54.00	7.40

Average data (1 540.19 MHz)

Blank

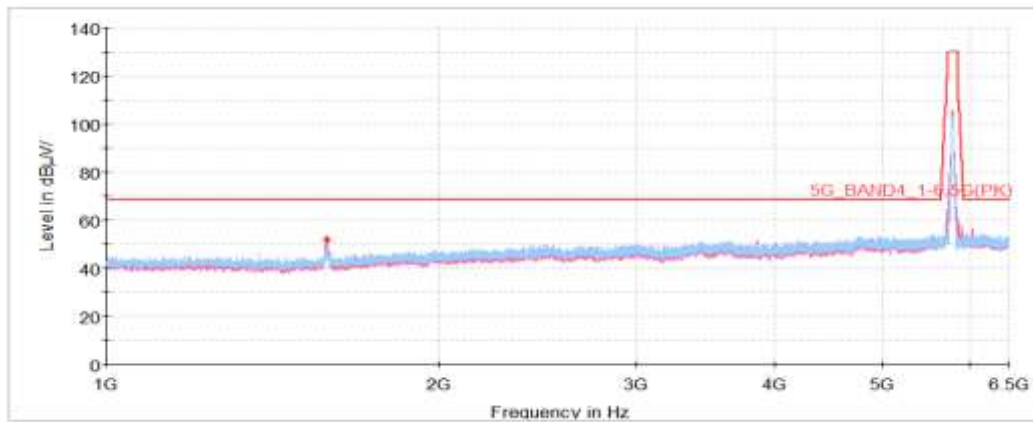
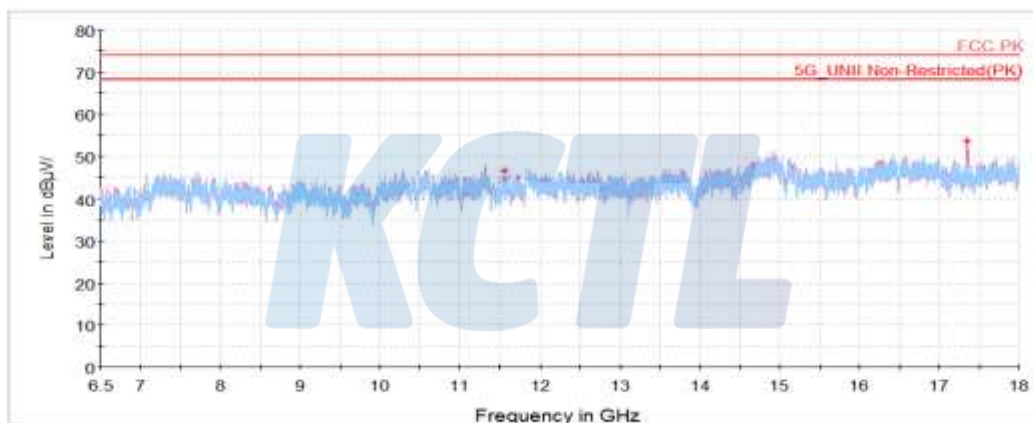
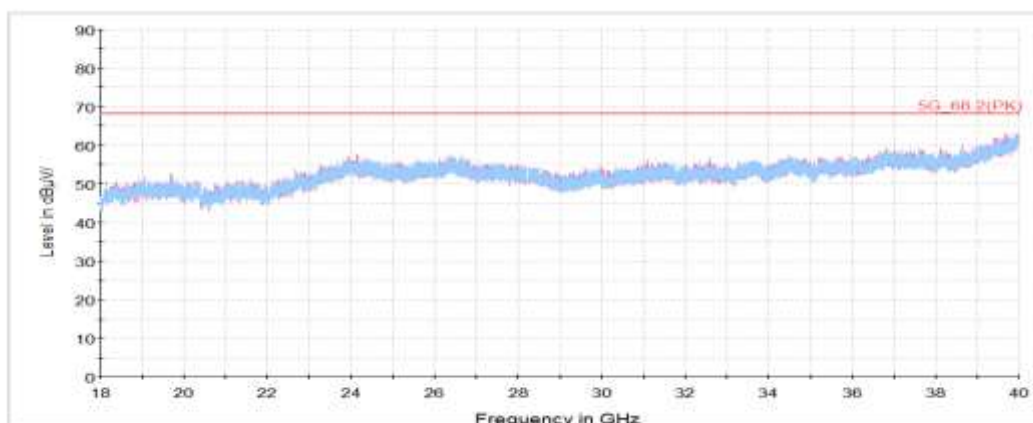
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 785 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 851.34	V	59.24	35.22	-26.67	-	67.79	119.14	51.35
11 648.77 ¹⁾	V	55.87	38.18	-50.15	-	43.90	74.00	30.10
17 474.59	V	60.70	41.11	-48.54	-	53.27	68.20	14.93
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

KCTL

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

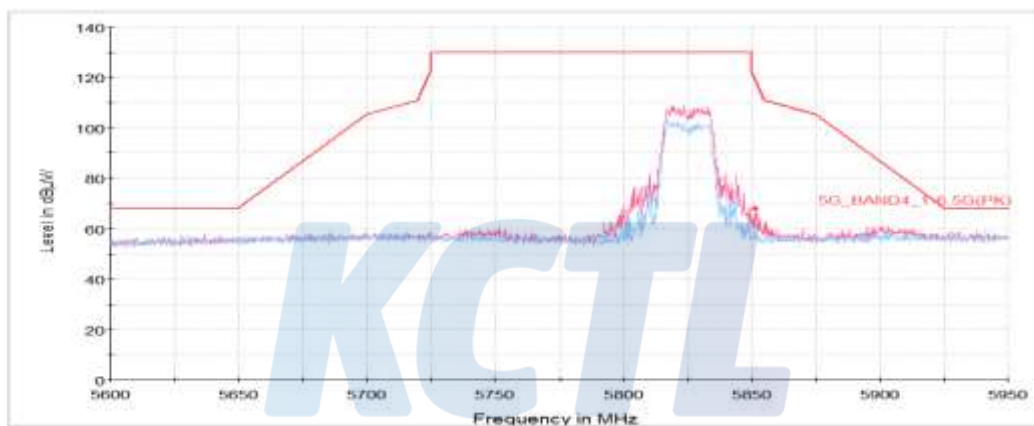
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

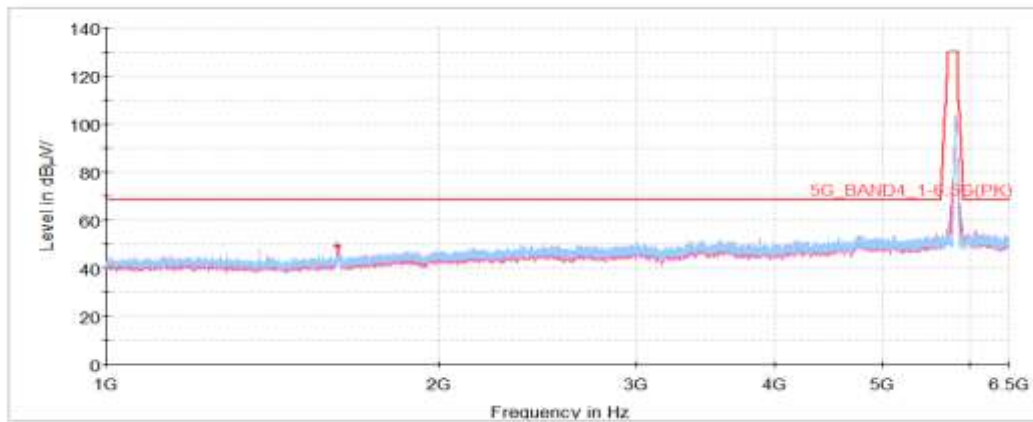
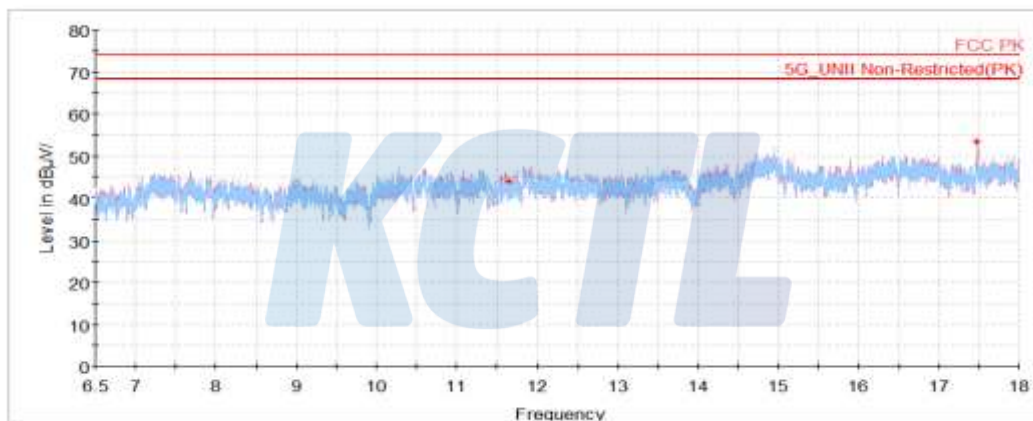
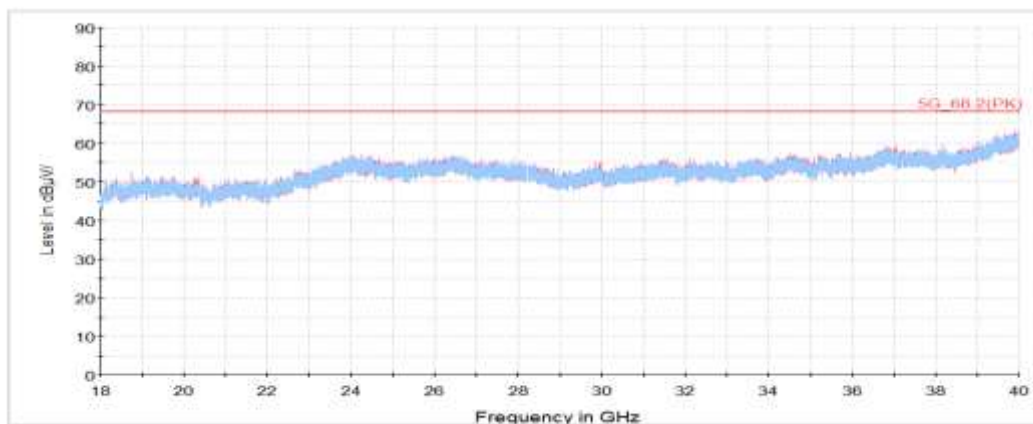
Report No.:
KR20-SRF0030-D

Page (956) of (1046)

**Highest Channel (5 825 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 851.34	V	59.24	35.22	-26.67	-	67.79	119.14	51.35
11 648.77 ¹⁾	V	55.87	38.18	-50.15	-	43.90	74.00	30.10
17 474.59	V	60.70	41.11	-48.54	-	53.27	68.20	14.93
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

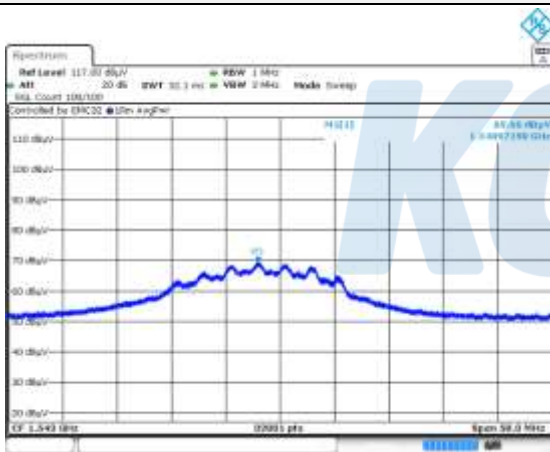
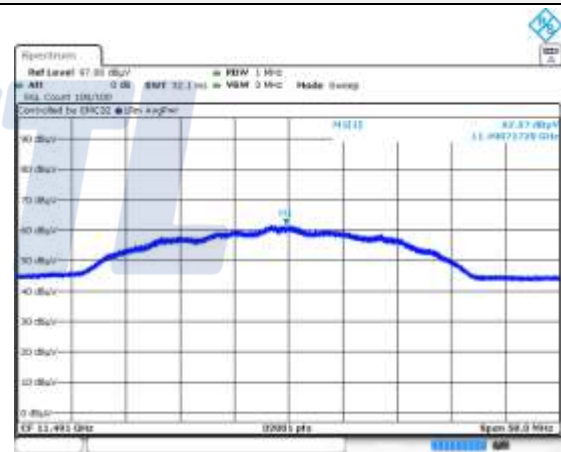
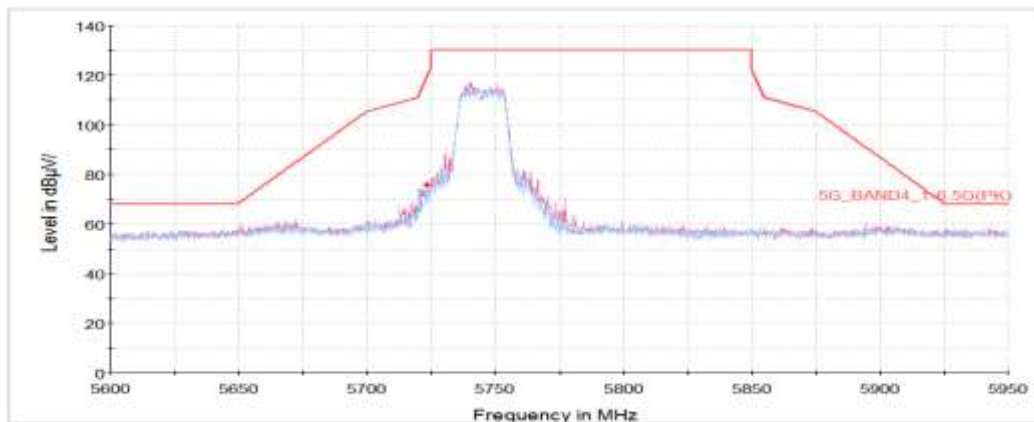
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

Page (958) of (1046)

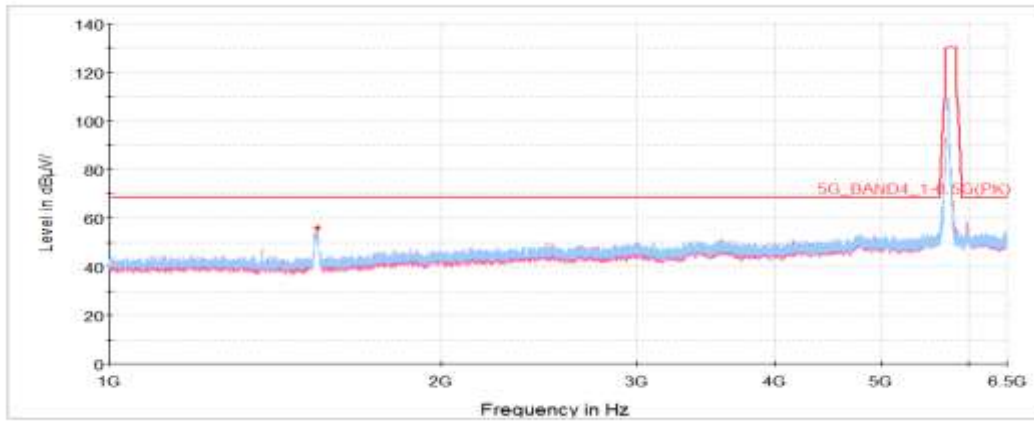
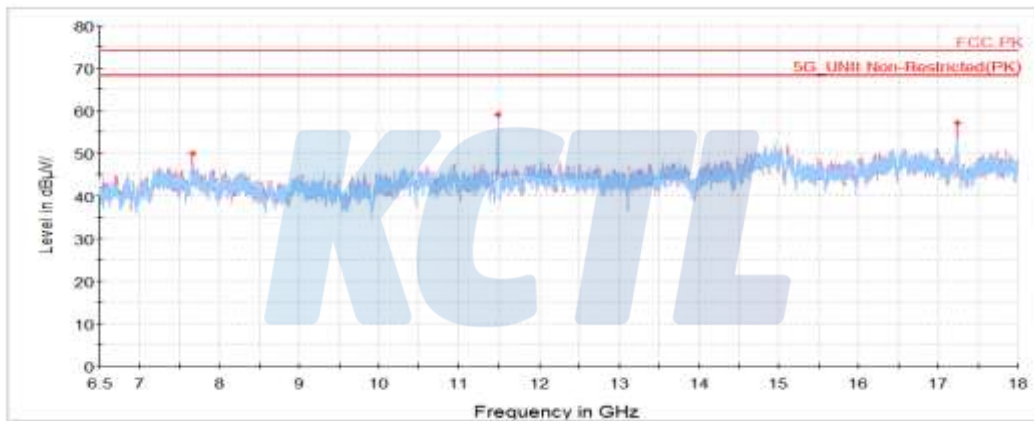
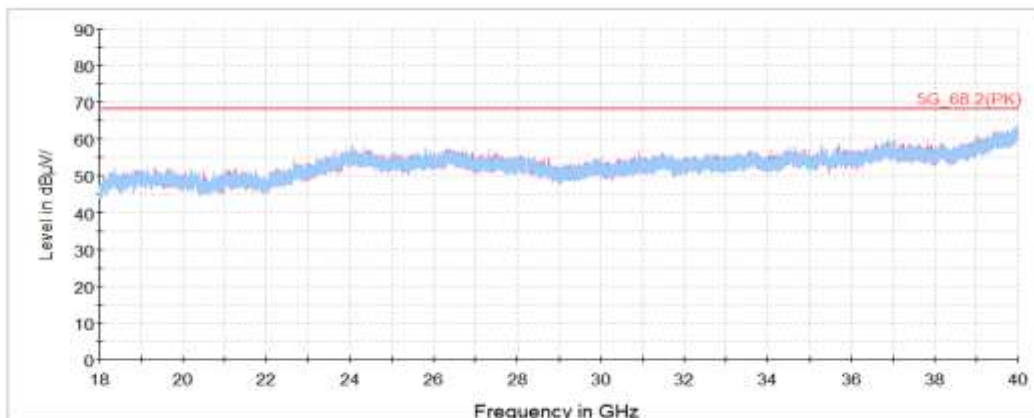
**802.11n HT20 UNII 3 4TX MIMO****Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 540.97 ¹⁾	V	77.64	28.25	-50.05	-	55.84	74.00	18.16
5 723.30	H	66.52	35.07	-25.89	-	75.70	118.32	42.62
11 489.48 ¹⁾	H	71.15	37.99	-50.07	-	59.07	74.00	14.93
17 245.31	V	63.54	41.20	-47.75	-	56.99	68.20	11.21
Average Data								
1 540.97 ¹⁾	V	69.66	28.25	-50.05	0.22	48.08	54.00	5.92
11 489.48 ¹⁾	H	62.07	37.99	-50.07	0.22	50.21	54.00	3.79

Average data (1 540.97 MHz)**Average data (11 489.48 MHz)****Horizontal/Vertical for Band-edge**

This test report shall not be reproduced, except in full, without the written approval

KCTL-TIR001-003/2

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

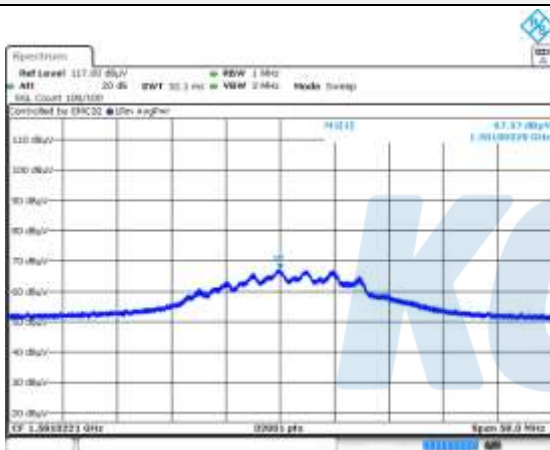
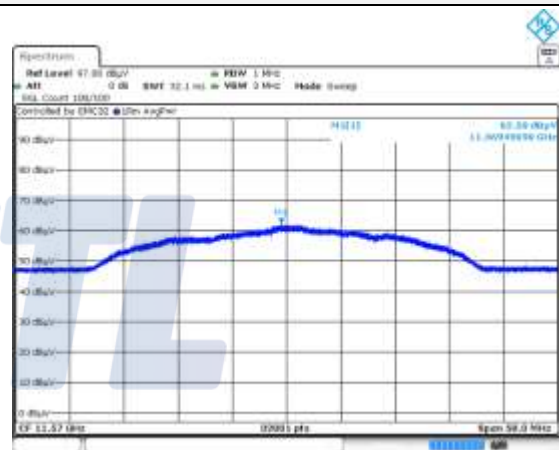
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

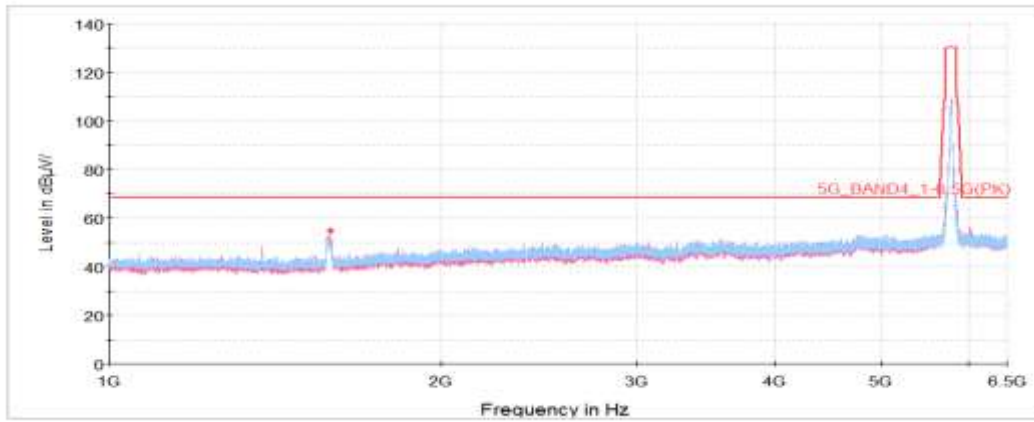
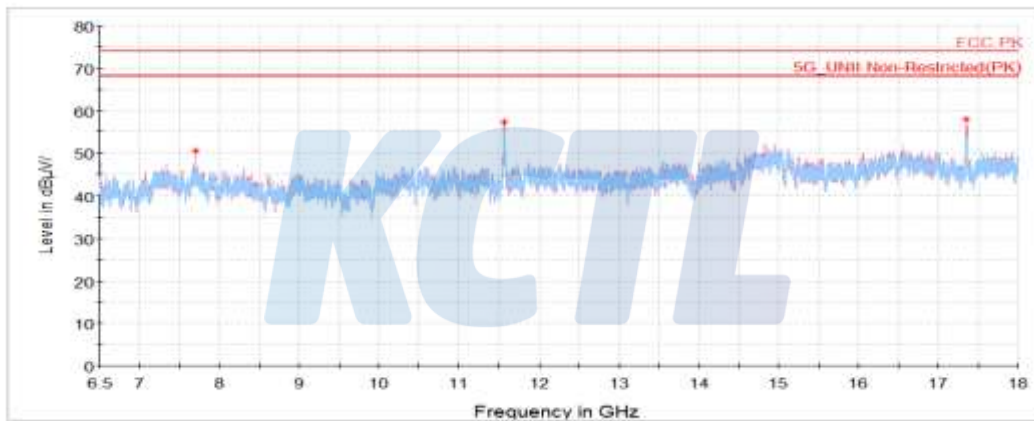
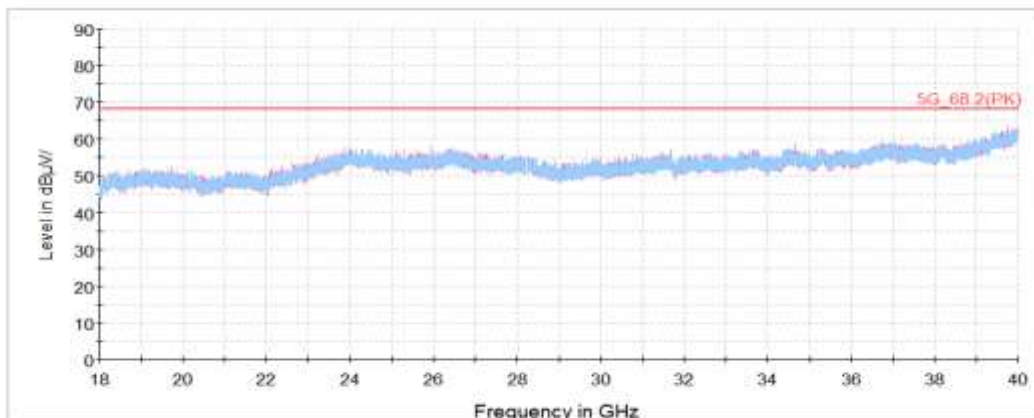
Report No.:
KR20-SRF0030-D

Page (960) of (1046)

**Middle Channel (5 785 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 581.00 ¹⁾	V	76.48	28.50	-50.09	-	54.89	74.00	19.11
11 569.50 ¹⁾	V	69.31	38.08	-50.10	-	57.29	74.00	16.71
17 355.64	V	64.80	41.16	-48.13	-	57.83	68.20	10.37
Average Data								
1 581.00 ¹⁾	V	67.37	28.50	-50.09	0.22	46.00	54.00	8.00
11 569.50 ¹⁾	V	62.50	38.08	-50.10	0.22	50.70	54.00	3.30

Average data (1 581.00 MHz)**Average data (11 569.50 MHz)**

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

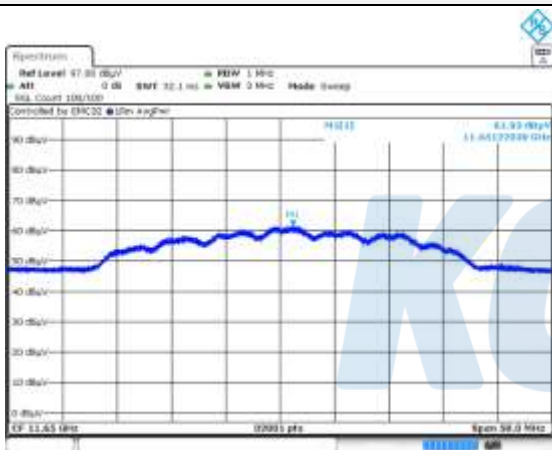
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

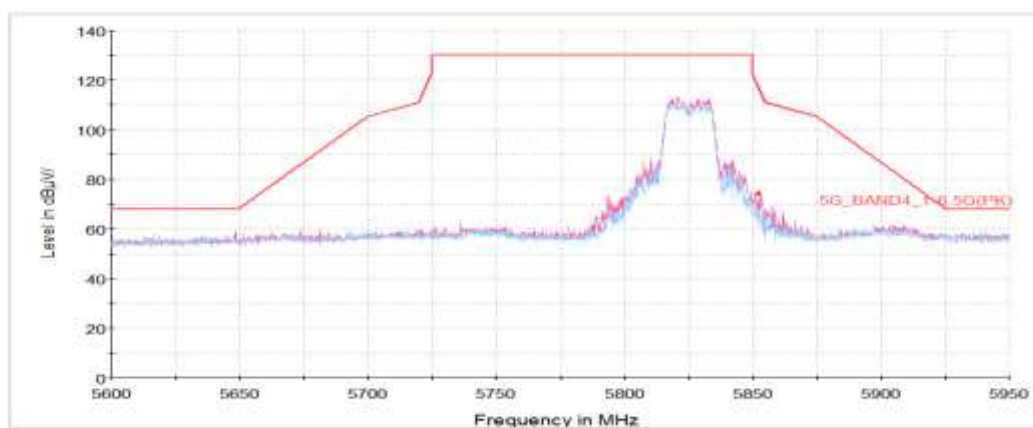
Page (962) of (1046)

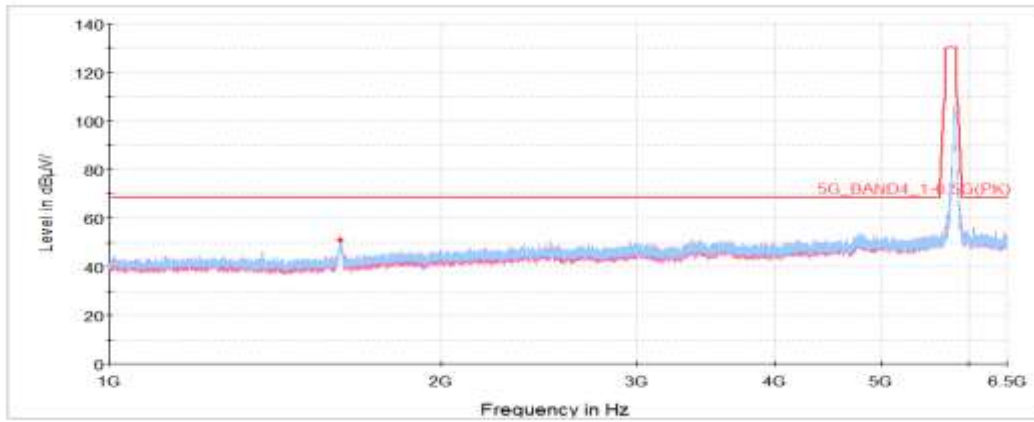
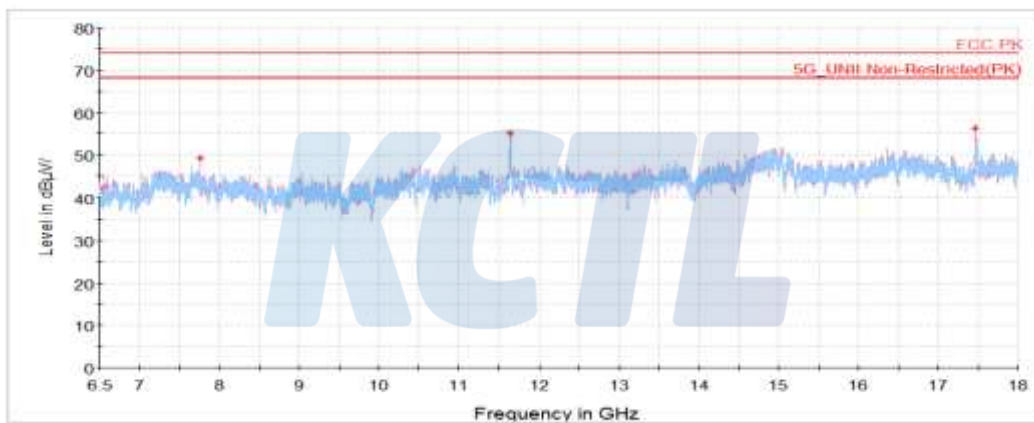
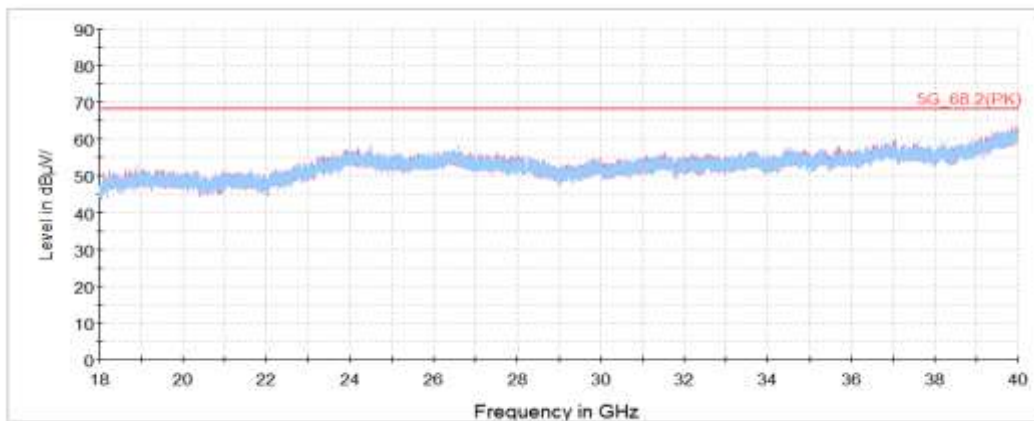
**Highest Channel (5 825 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 852.03	V	65.70	35.22	-26.67	-	74.25	117.57	43.32
7 766.80	V	64.30	35.61	-50.70	-	49.21	68.20	18.99
11 651.22 ¹⁾	H	67.14	38.18	-50.15	-	55.17	74.00	18.83
17 466.69	V	63.63	41.11	-48.52	-	56.22	68.20	11.98
Average Data								
11 651.22 ¹⁾	V	61.83	38.18	-50.15	0.22	50.08	54.00	3.92

Average data (11 651.22 MHz)

Blank

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

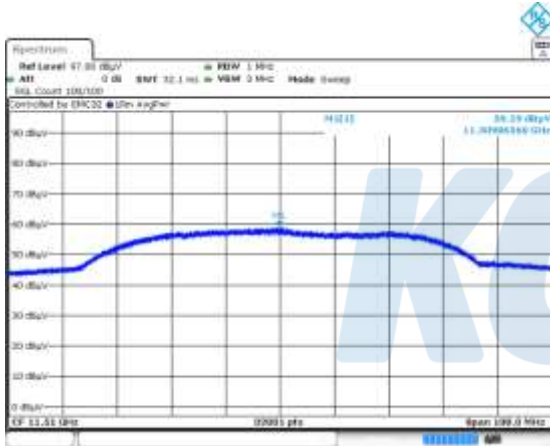
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

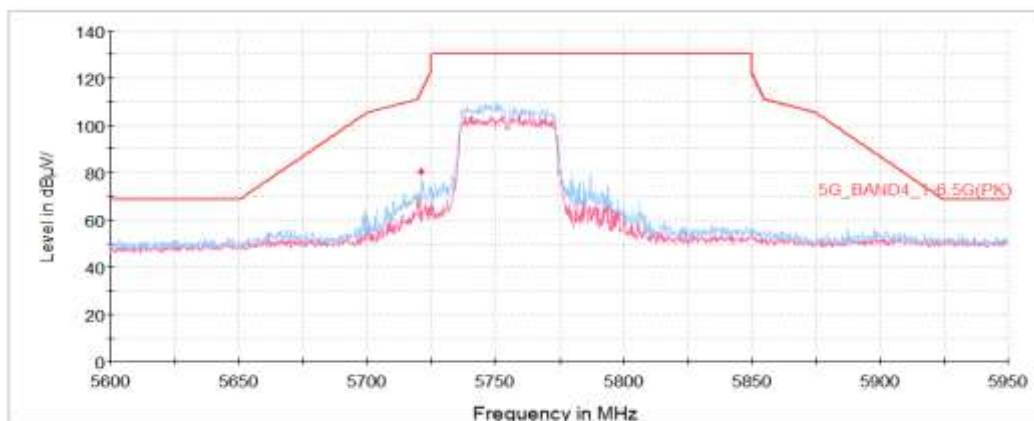
Page (964) of (1046)

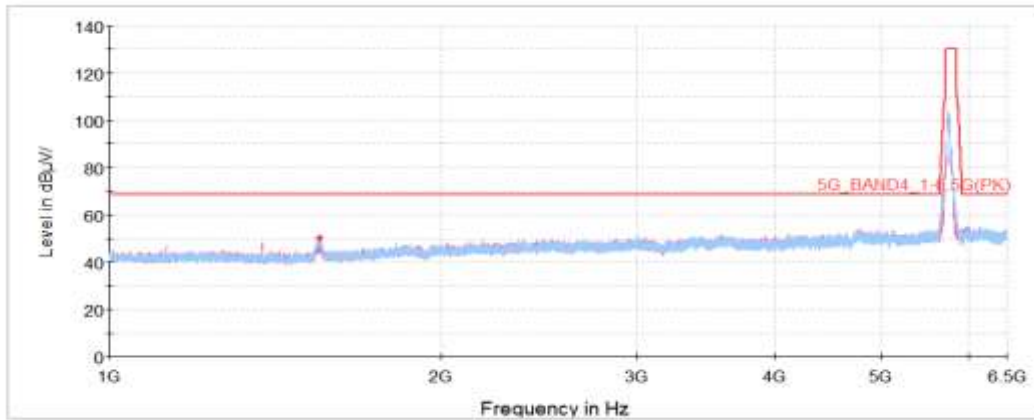
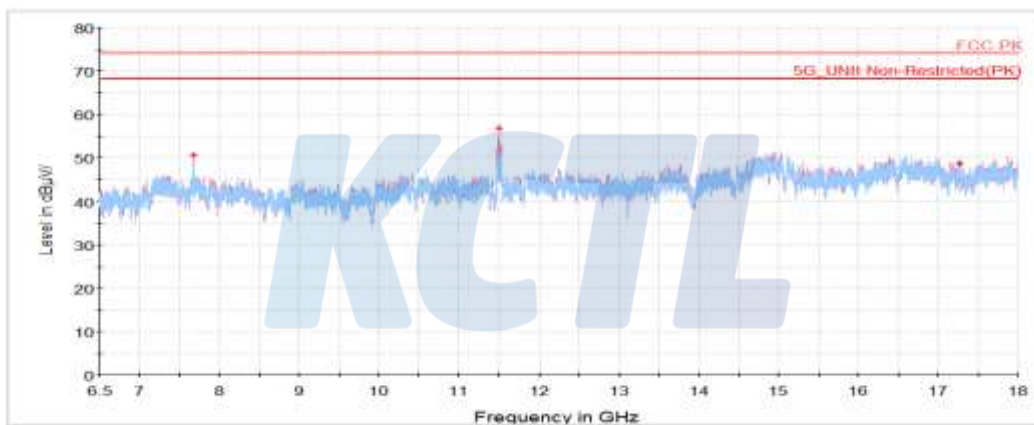
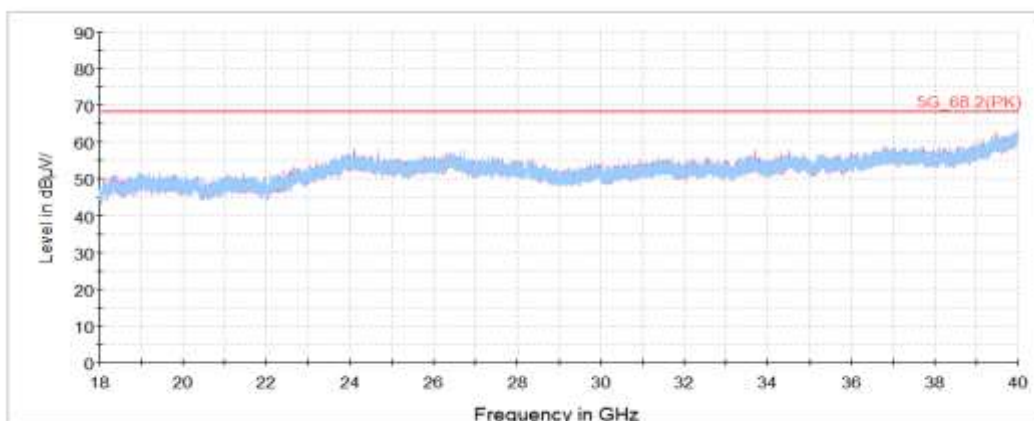
**802.11n HT40 UNII 3 ANT 0****Lowest Channel (5 755 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 721.58	H	71.02	35.07	-25.87	-	80.22	114.40	34.18
11 509.87 ¹⁾	V	68.82	38.01	-50.06	-	56.77	74.00	17.23
17 267.95	H	55.15	41.19	-47.83	-	48.51	68.20	19.69
Average Data								
11 509.87 ¹⁾	V	59.29	38.01	-50.06	0.44	47.68	54.00	6.32

Average data (11 509.87 MHz)

Blank

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

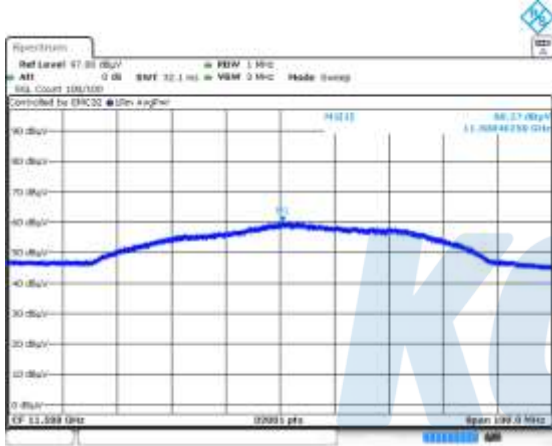
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

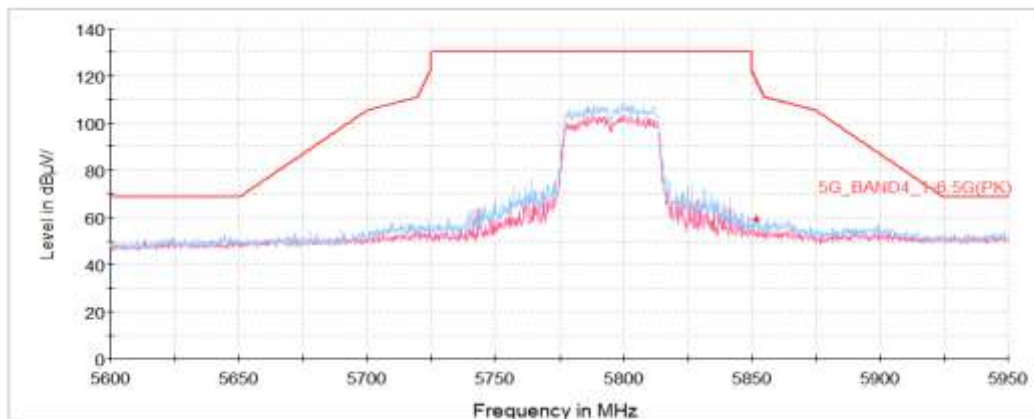
Page (966) of (1046)

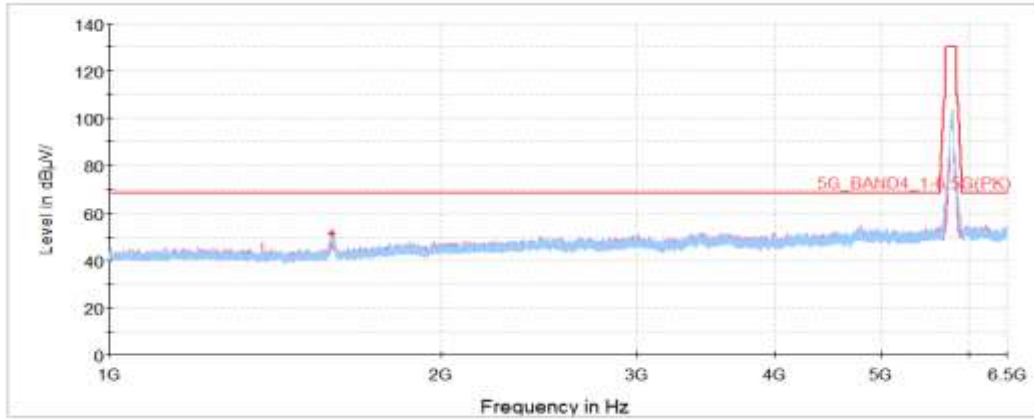
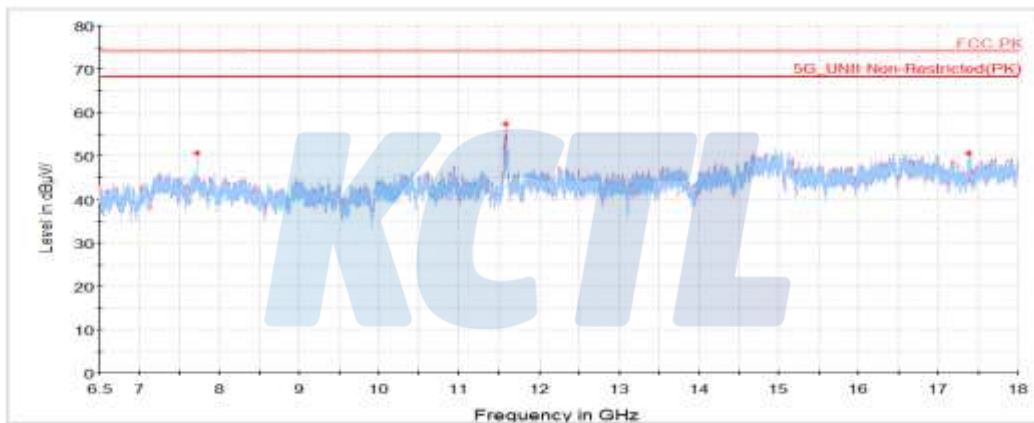
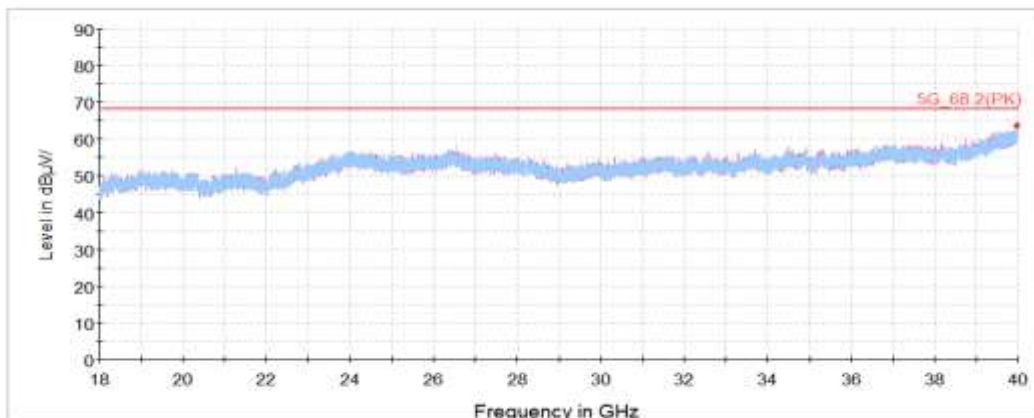
**Highest Channel (5 795 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 851.69	H	50.93	35.22	-26.67	-	59.48	118.35	58.87
11 588.46 ¹⁾	V	69.24	38.11	-50.11	-	57.24	74.00	16.76
17 383.67	H	57.69	41.15	-48.23	-	50.61	68.20	17.59
Average Data								
11 588.46 ¹⁾	V	60.27	38.11	-50.11	0.44	48.71	54.00	5.29

Average data (11 588.46 MHz)

Blank

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

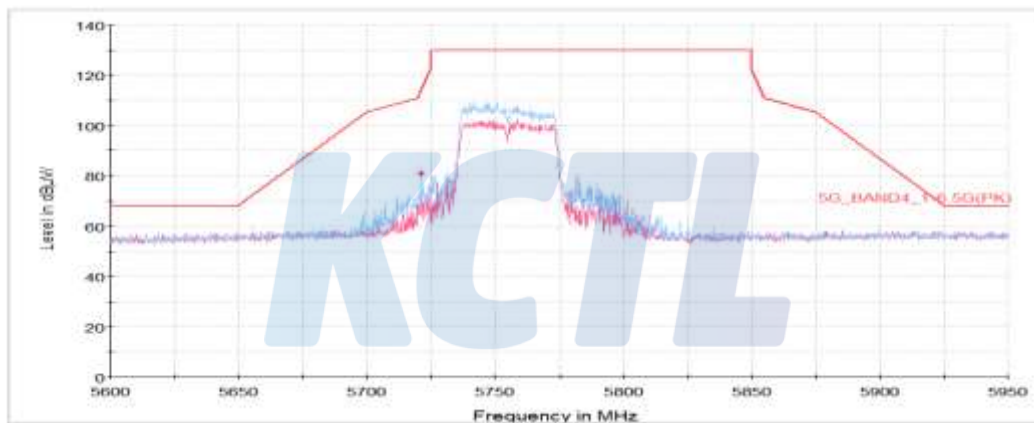
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

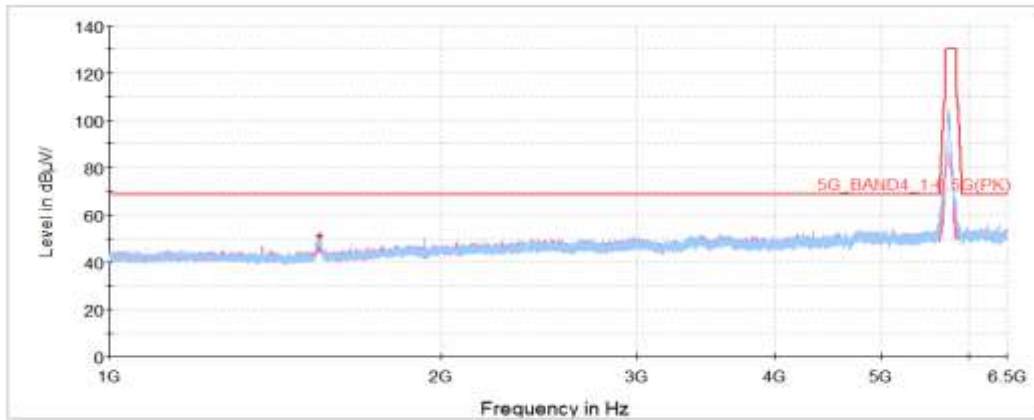
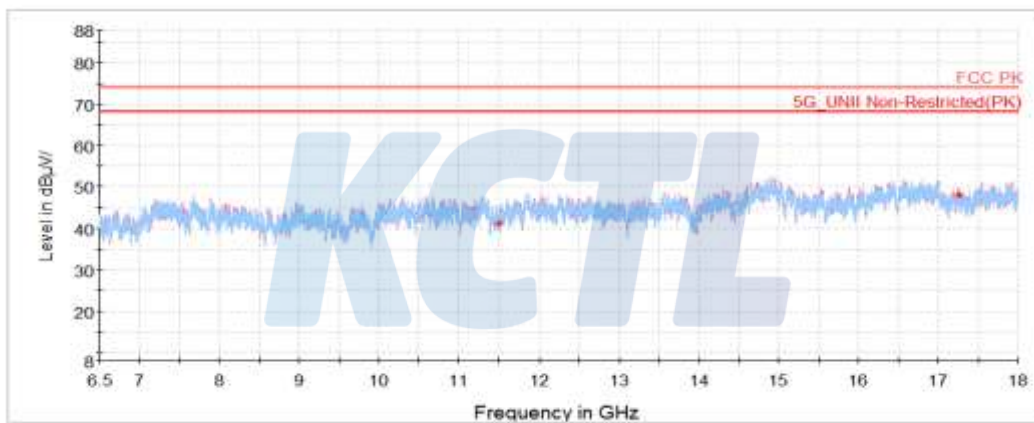
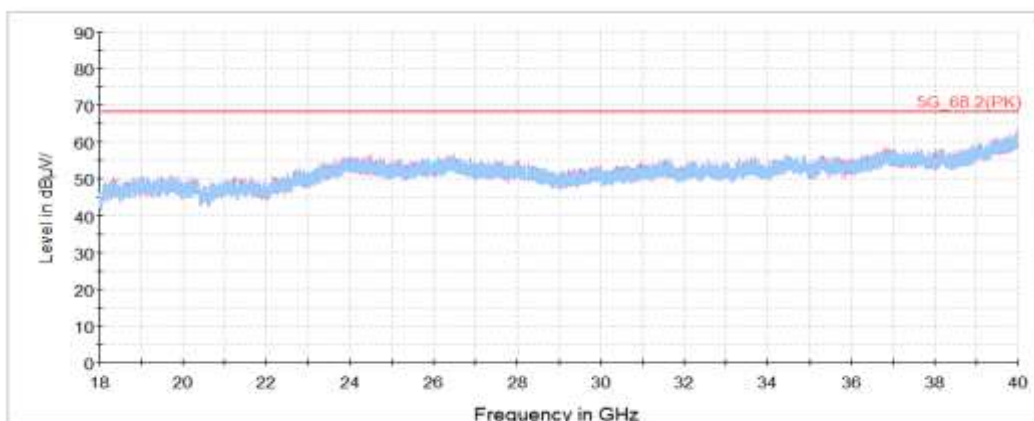
Report No.:
KR20-SRF0030-D

Page (968) of (1046)

KCTL**802.11n HT40 UNII 3 ANT 1****Lowest Channel (5 755 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 721.23	H	71.65	35.07	-25.86	-	80.86	113.61	32.76
11 509.69 ¹⁾	V	53.23	38.01	-50.06	-	41.18	74.00	32.82
17 264.72	H	54.67	41.19	-47.82	-	48.04	68.20	20.16
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

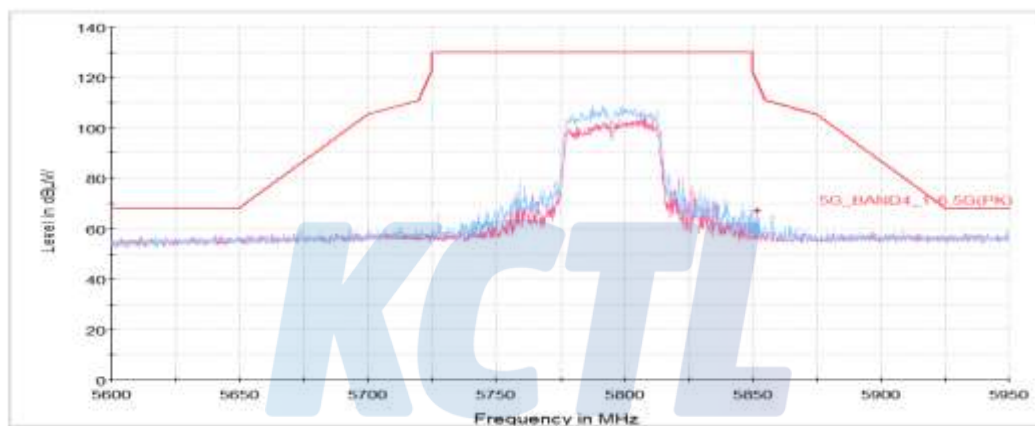
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

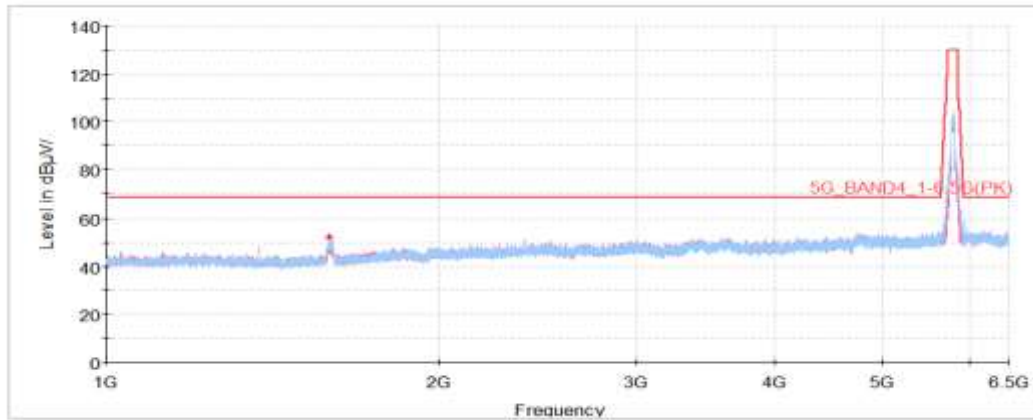
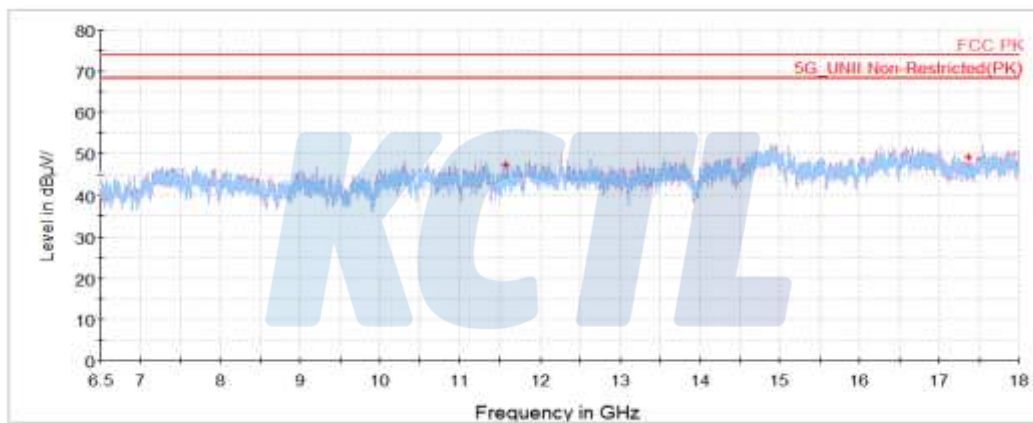
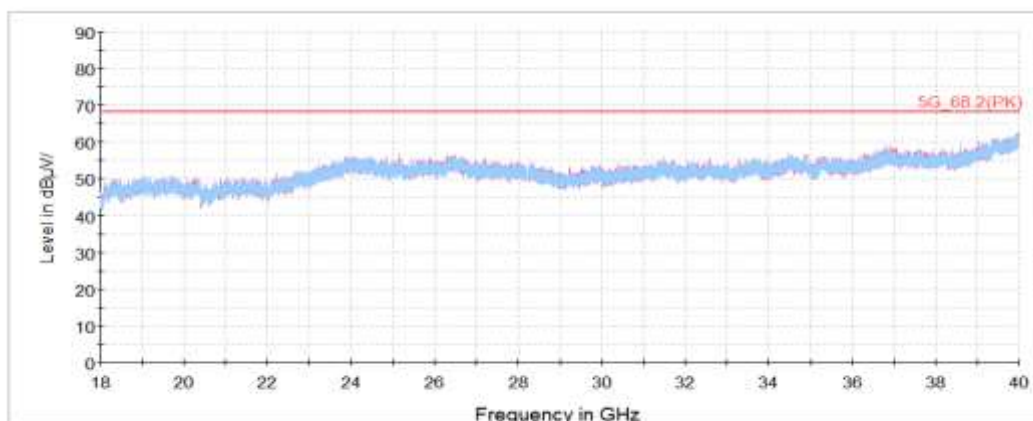
Report No.:
KR20-SRF0030-D

Page (970) of (1046)

**Highest Channel (5 795 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 851.86	H	58.30	35.22	-26.67	-	66.85	117.96	51.11
11 583.36 ¹⁾	H	59.31	38.10	-50.11	-	47.30	74.00	26.70
17 370.73	V	56.17	41.15	-48.19	-	49.13	68.20	19.07
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

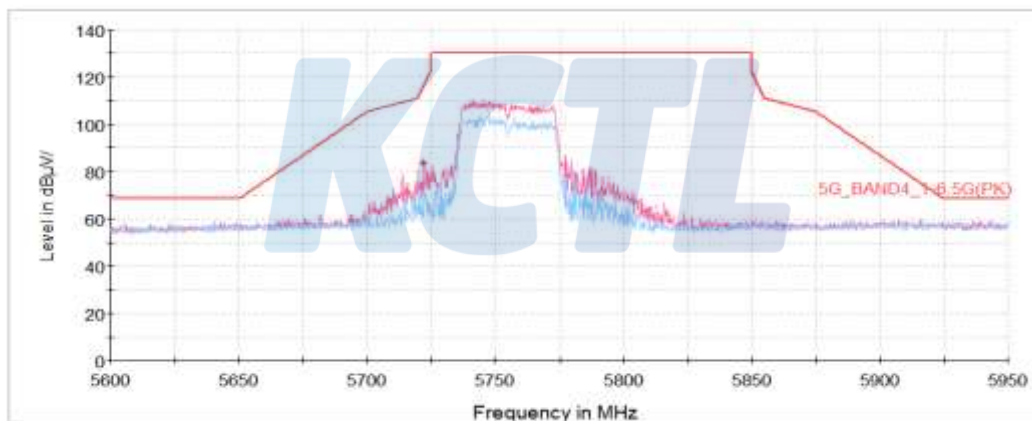
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

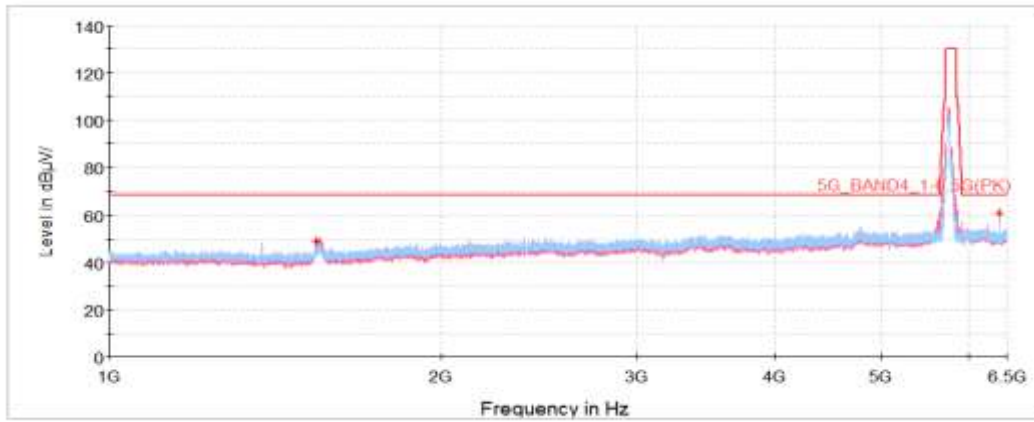
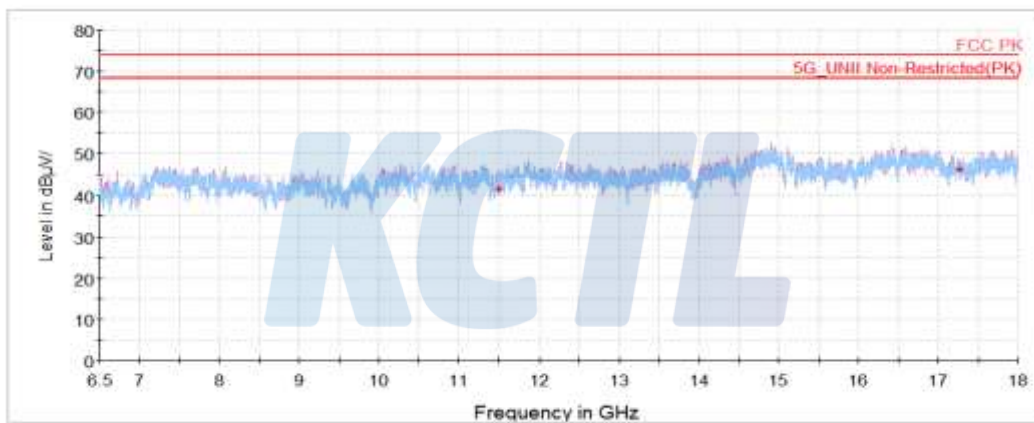
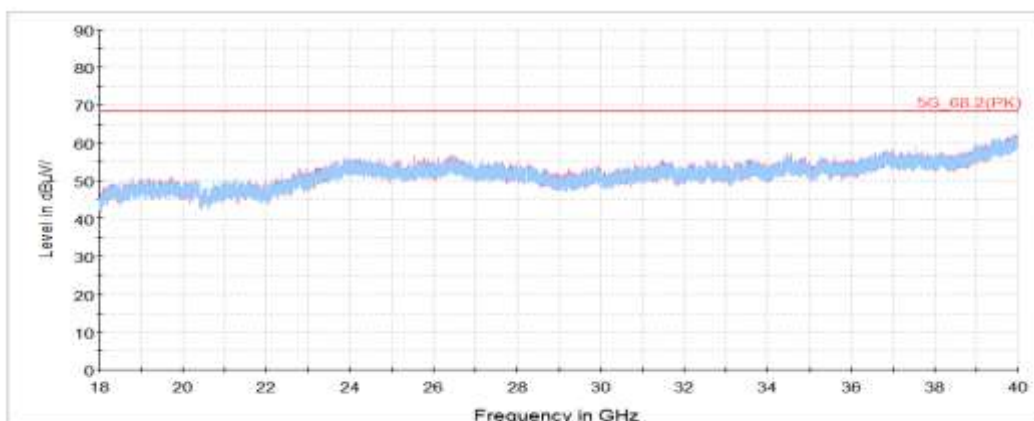
Report No.:
KR20-SRF0030-D

Page (972) of (1046)

KCTL**802.11n HT40 UNII 3 ANT 2****Lowest Channel (5 755 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
1 539.86 ¹⁾	V	70.88	28.25	-50.05	-	49.08	74.00	24.92
5 722.27	V	74.13	35.07	-25.88	-	83.32	115.97	32.64
6 394.64	V	70.27	35.40	-44.78	-	60.89	68.20	7.31
11 511.48 ¹⁾	H	53.46	38.01	-50.06	-	41.41	74.00	32.59
17 267.95	V	52.78	41.19	-47.83	-	46.14	68.20	22.06
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

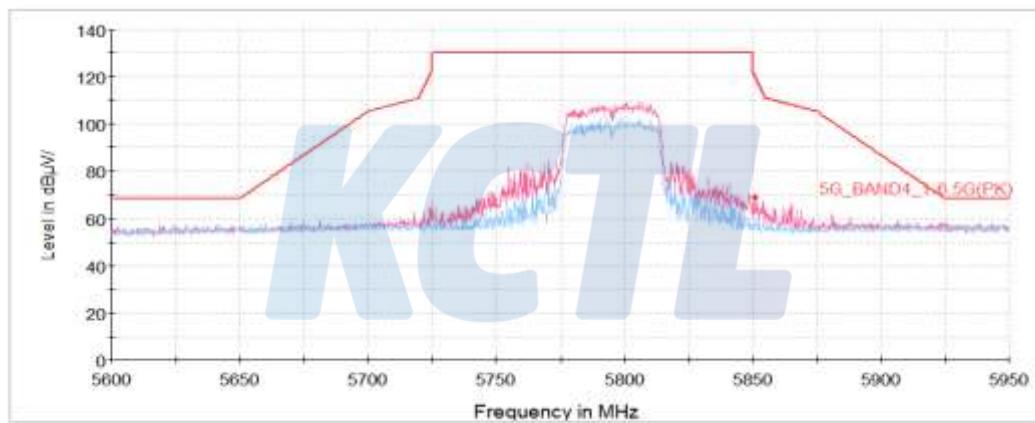
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

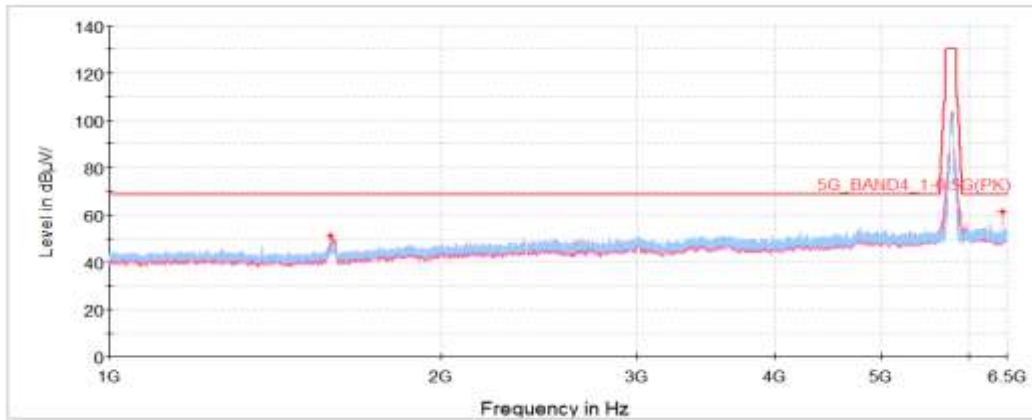
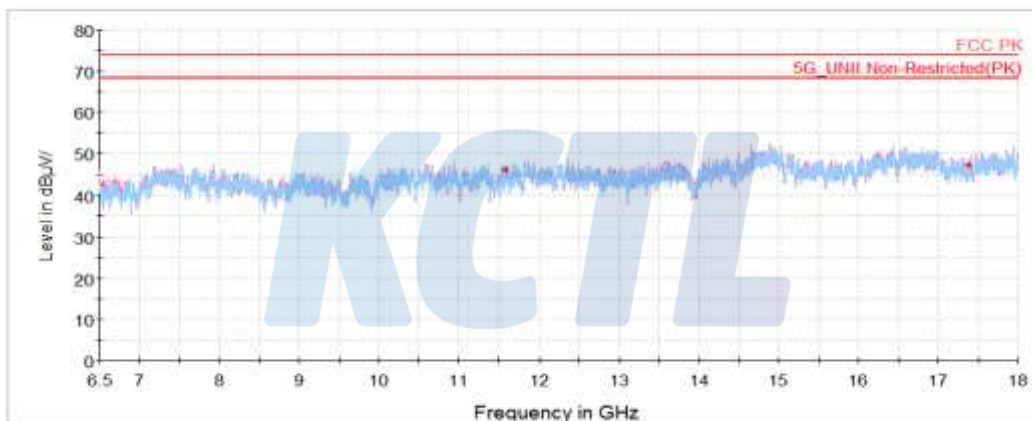
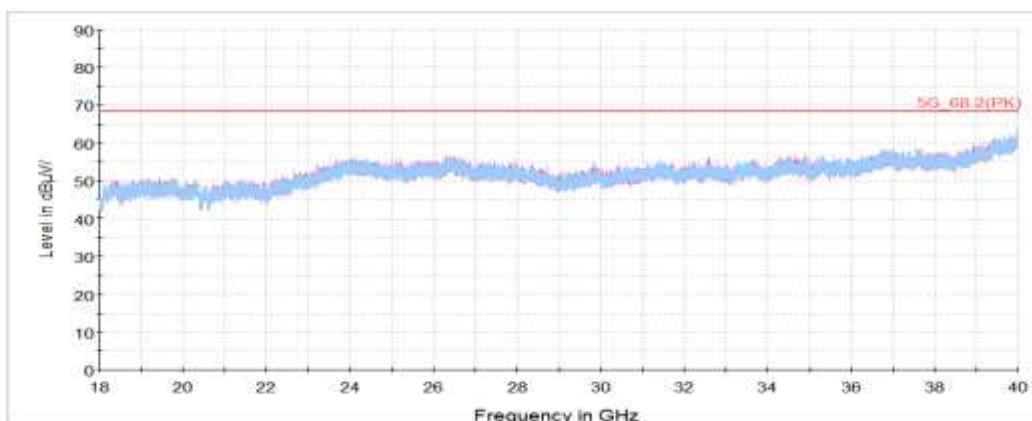
Report No.:
KR20-SRF0030-D

Page (974) of (1046)

**Highest Channel (5 795 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 590.22 ¹⁾	V	72.15	28.56	-50.10	-	50.61	74.00	23.39
5 850.66	V	60.16	35.22	-26.68	-	68.70	120.70	52.00
6 438.64	V	70.40	35.40	-44.77	-	61.03	68.20	7.17
11 591.98 ¹⁾	V	58.10	38.11	-50.11	-	46.10	74.00	27.90
17 386.55	H	54.42	41.15	-48.24	-	47.33	68.20	20.87
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

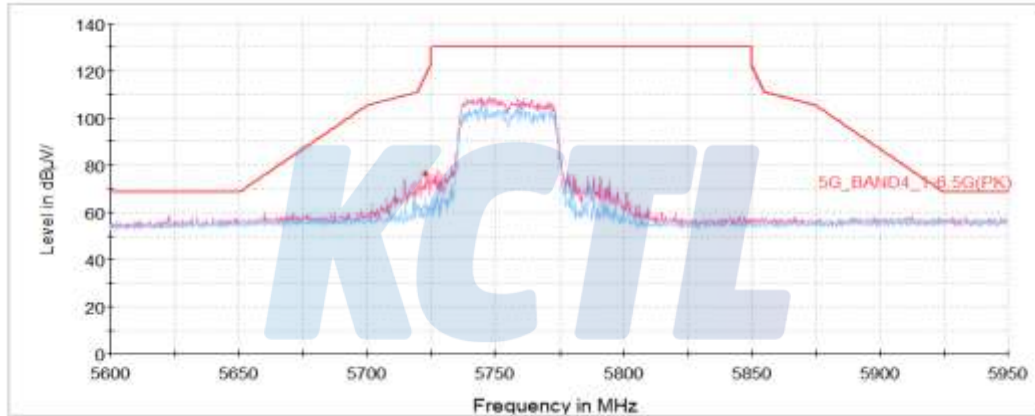
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

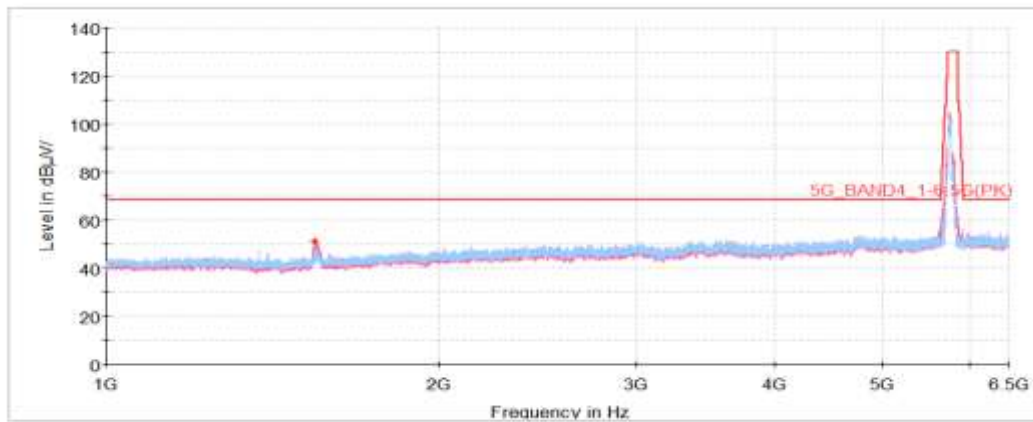
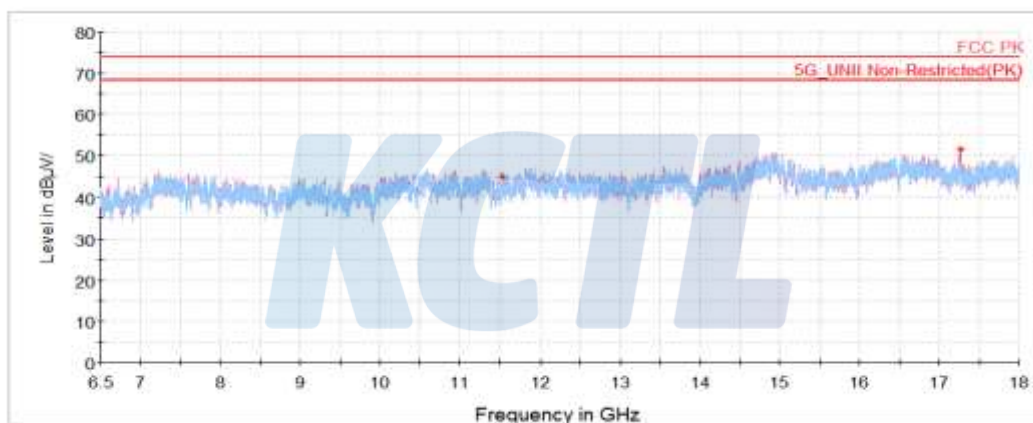
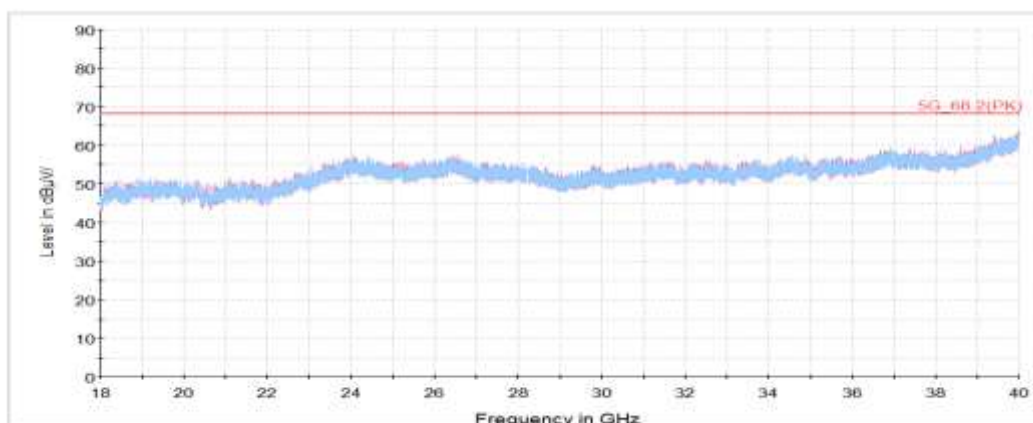
Report No.:
KR20-SRF0030-D

Page (976) of (1046)

**802.11n HT40 UNII 3 ANT 3****Lowest Channel (5 755 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 723.13	V	67.10	35.07	-25.89	-	76.28	117.93	41.64
11 538.44 ¹⁾	H	57.00	38.05	-50.08	-	44.97	74.00	29.03
17 268.31	V	58.18	41.19	-47.83	-	51.54	68.20	16.66
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

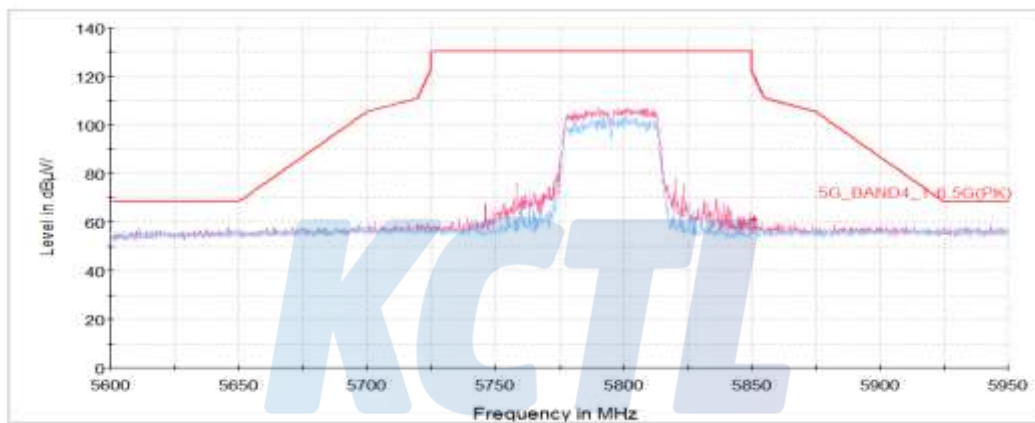
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

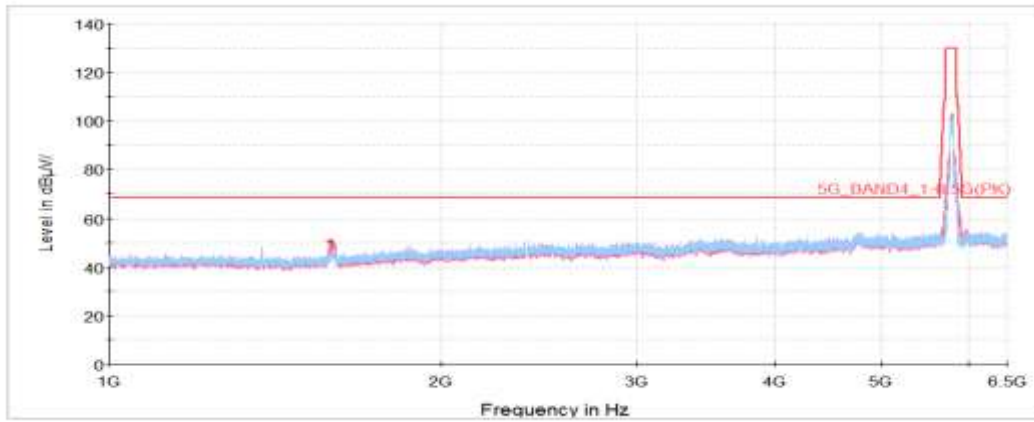
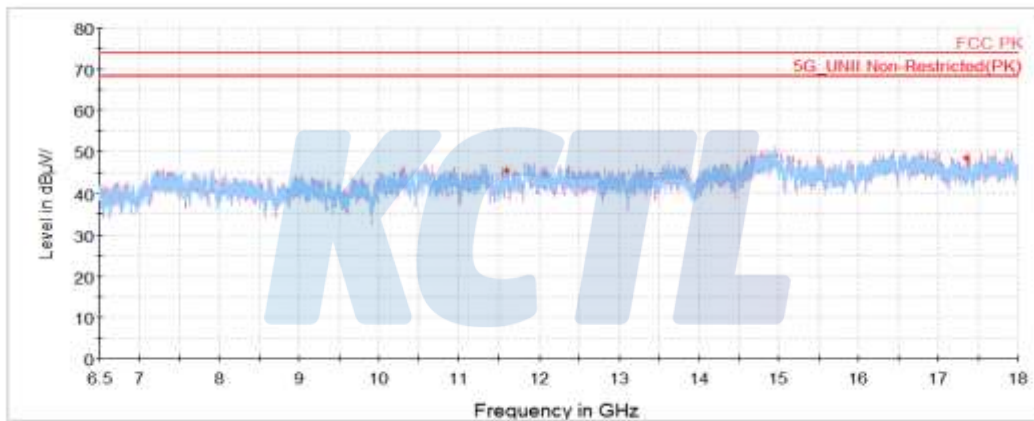
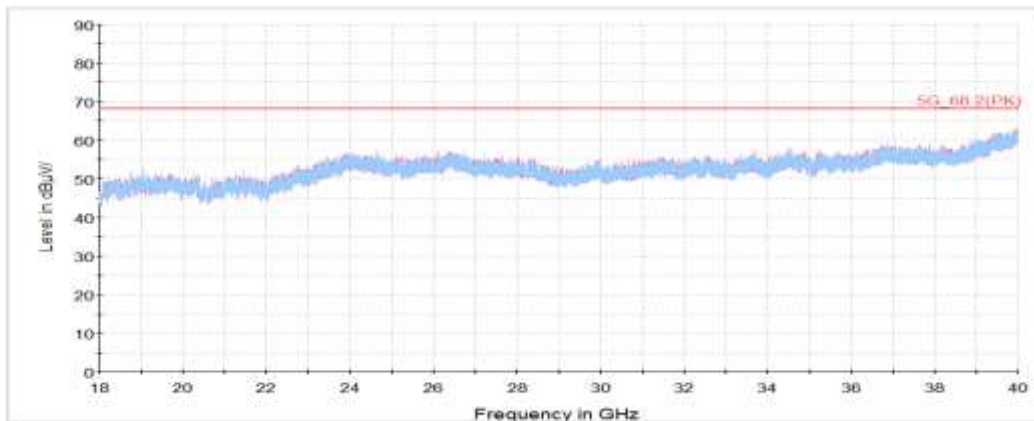
Report No.:
KR20-SRF0030-D

Page (978) of (1046)

KCTL**Highest Channel (5 795 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 851.00	V	52.55	35.22	-26.67	-	61.10	119.92	58.82
11 605.64 ¹⁾	V	57.32	38.13	-50.12	-	45.33	74.00	28.67
17 355.64	V	55.48	41.16	-48.13	-	48.51	68.20	19.69
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

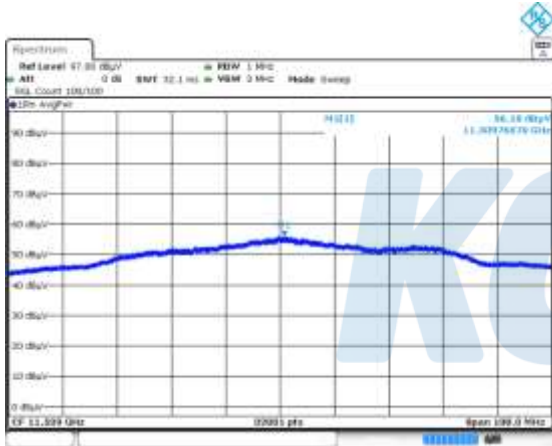
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

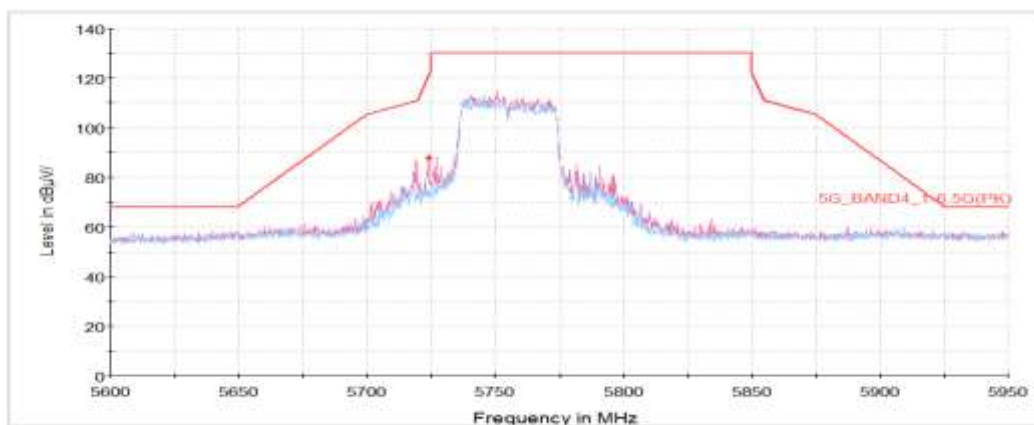
Page (980) of (1046)

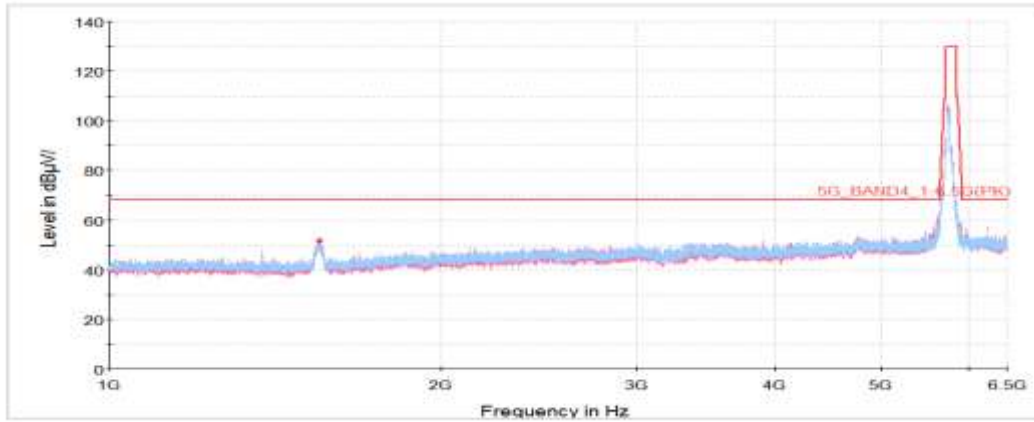
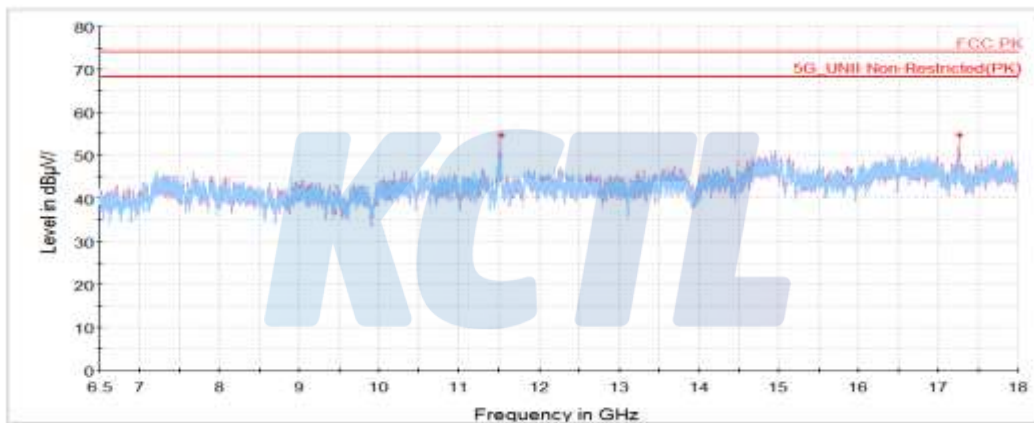
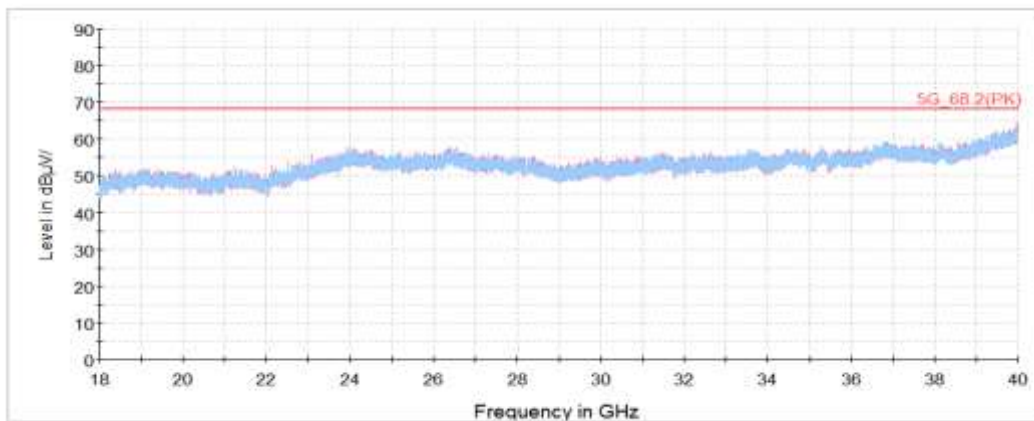
**802.11n HT40 UNII 3 4TX MIMO****Lowest Channel (5 755 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 724.16	V	78.81	35.07	-25.91	-	87.97	120.28	32.31
11 509.77 ¹⁾	H	66.72	38.01	-50.06	-	54.67	74.00	19.33
17 270.11	V	61.31	41.19	-47.84	-	54.66	68.20	13.54
Average Data								
11 509.77 ¹⁾	H	56.18	38.01	-50.06	0.44	44.57	54.00	9.43

Average data (11 509.77 MHz)

Blank

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

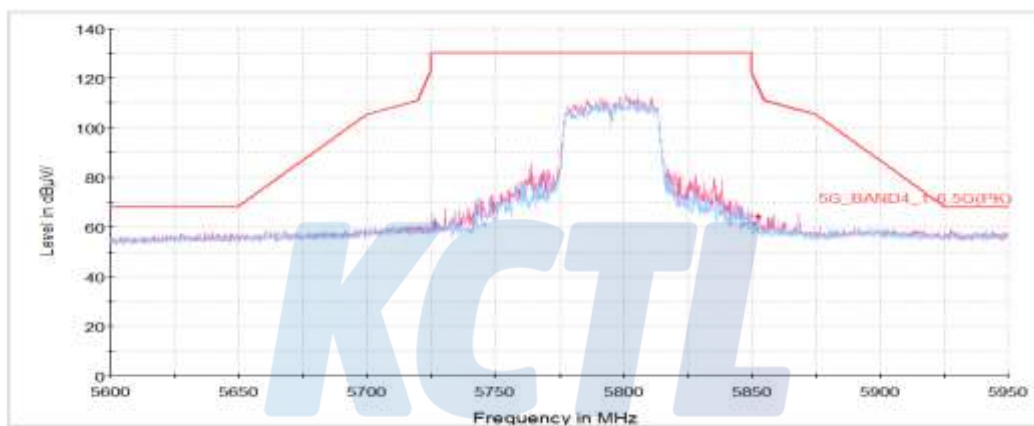
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

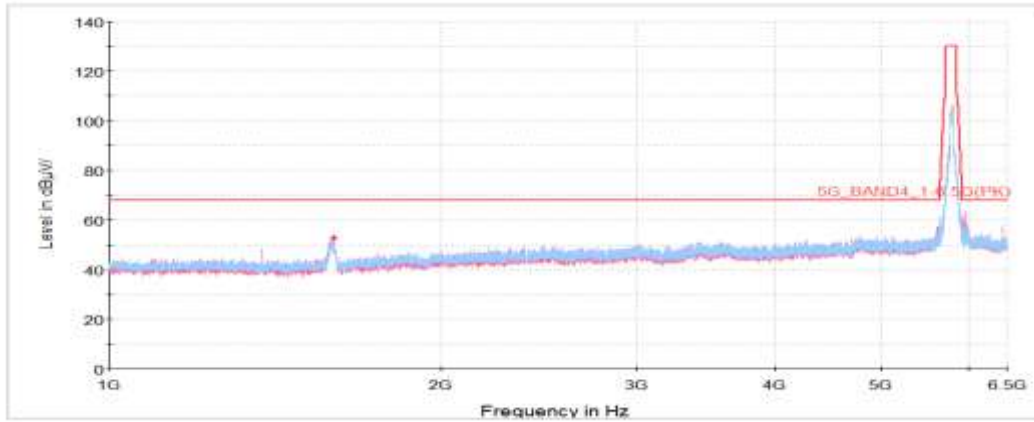
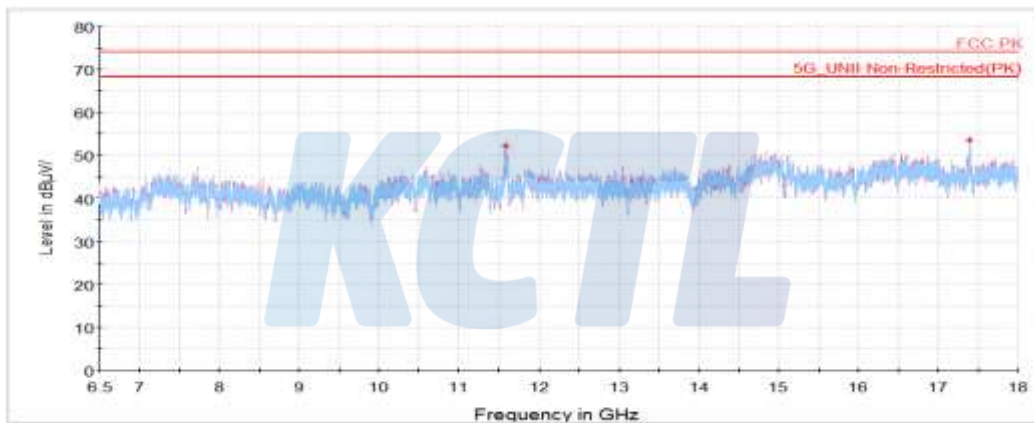
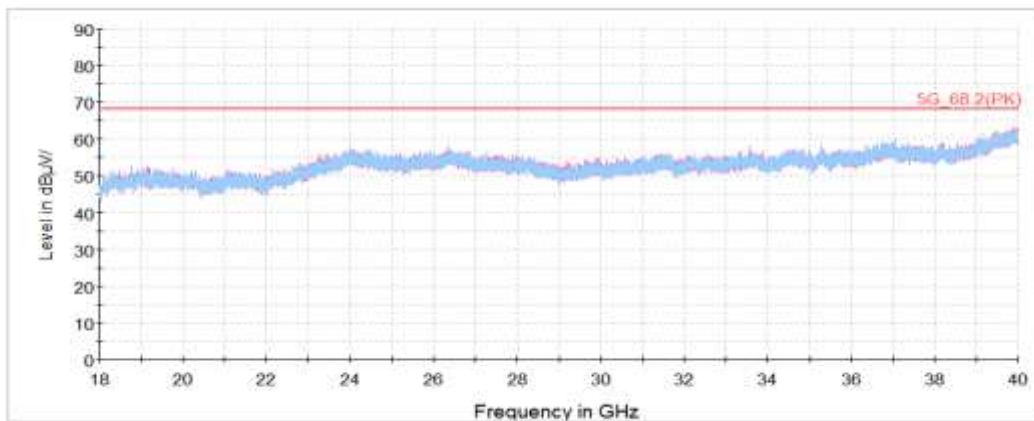
Report No.:
KR20-SRF0030-D

Page (982) of (1046)

KCTL**Highest Channel (5 795 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 852.38	V	55.47	35.22	-26.67	-	64.02	116.79	52.76
11 589.65 ¹⁾	V	64.11	38.11	-50.11	-	52.11	74.00	21.89
17 395.89	V	60.55	41.14	-48.27	-	53.42	68.20	14.78
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

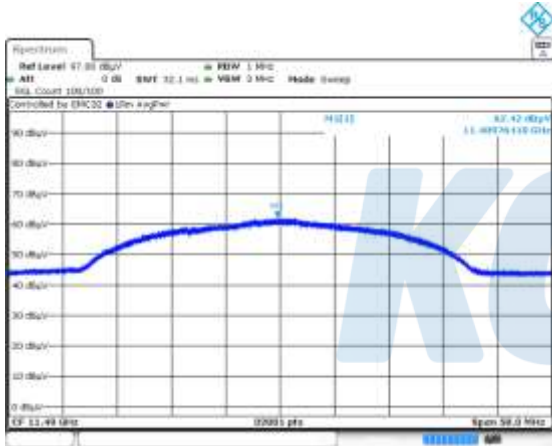
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

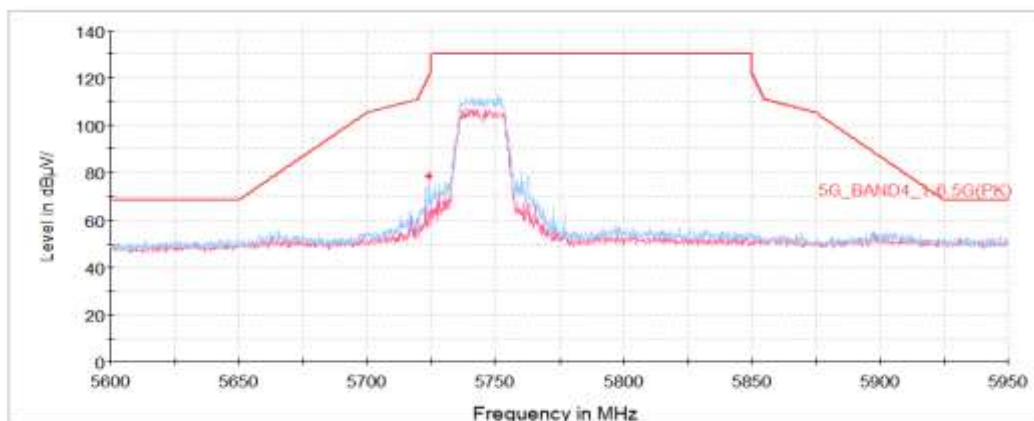
Page (984) of (1046)

**802.11ac VHT20 UNII 3 ANT 0****Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 724.16	H	69.25	35.07	-25.91	-	78.41	120.28	41.87
11 489.76 ¹⁾	V	69.89	37.99	-50.07	-	57.81	74.00	16.19
17 249.63	H	57.90	41.20	-47.77	-	51.33	68.20	16.87
Average Data								
11 489.76 ¹⁾	V	62.42	37.99	-50.07	-	50.34	54.00	3.66

Average data (11 489.76 MHz)

Blank

Horizontal/Vertical for Band-edge

KCTL Inc.

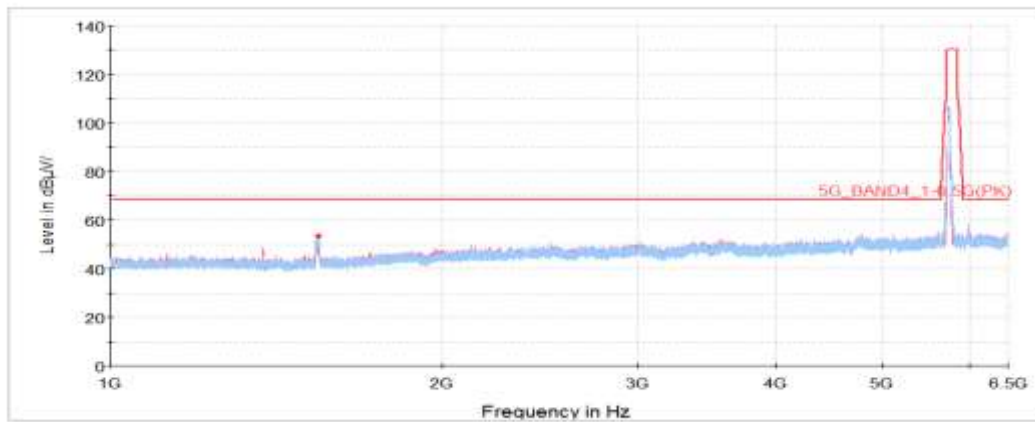
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

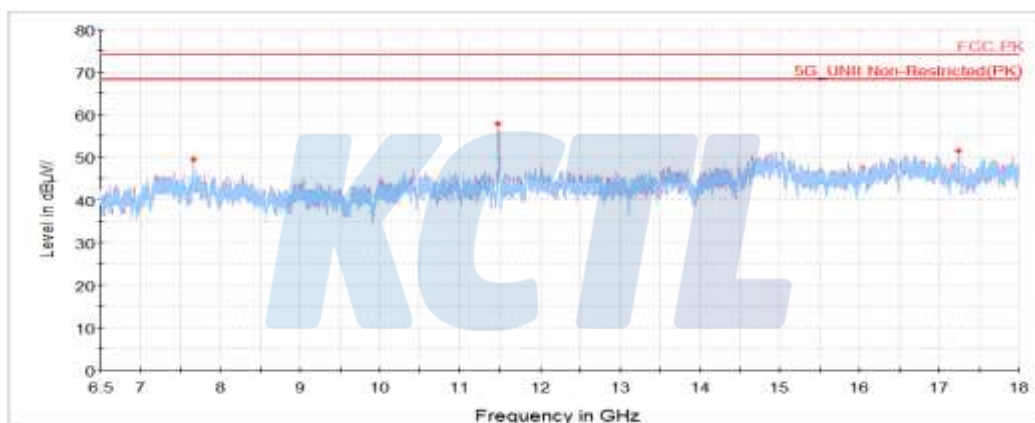
Page (985) of (1046)



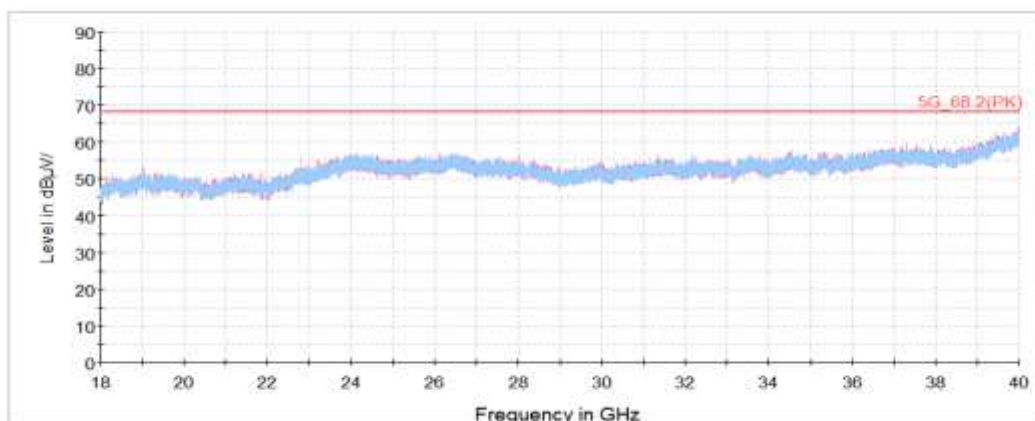
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz

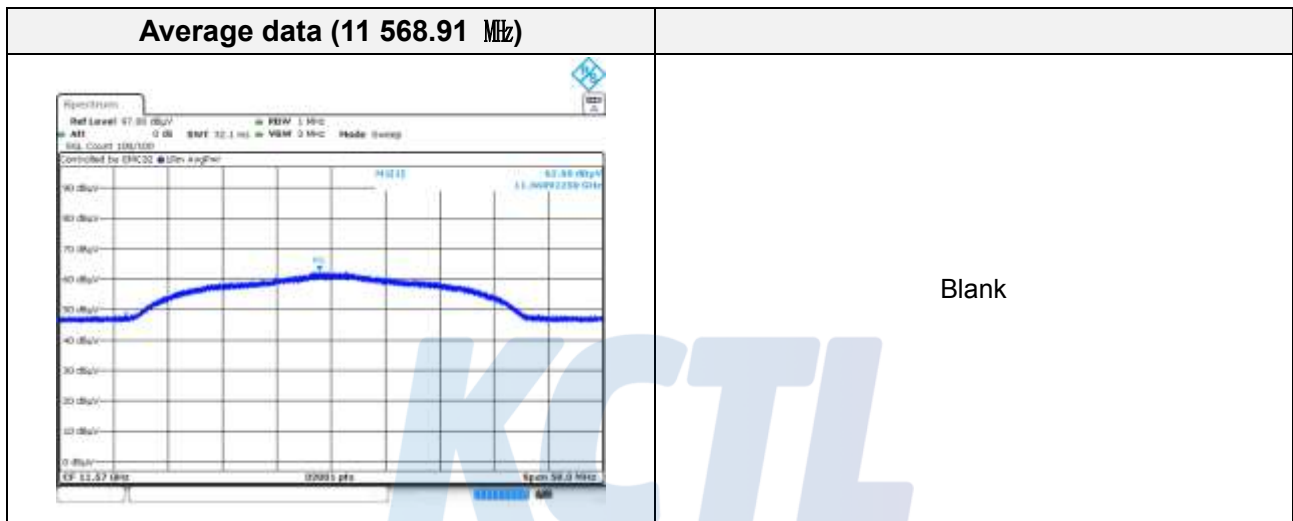


Horizontal/Vertical for 18 GHz ~ 40 GHz



Middle Channel (5 785 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
11 568.91 ¹⁾	V	71.22	38.08	-50.10	-	59.20	74.00	14.80
17 366.42	V	61.74	41.15	-48.17	-	54.72	68.20	13.48
Average Data								
11 568.91 ¹⁾	V	62.80	38.08	-50.10	-	50.78	54.00	3.22



KCTL Inc.

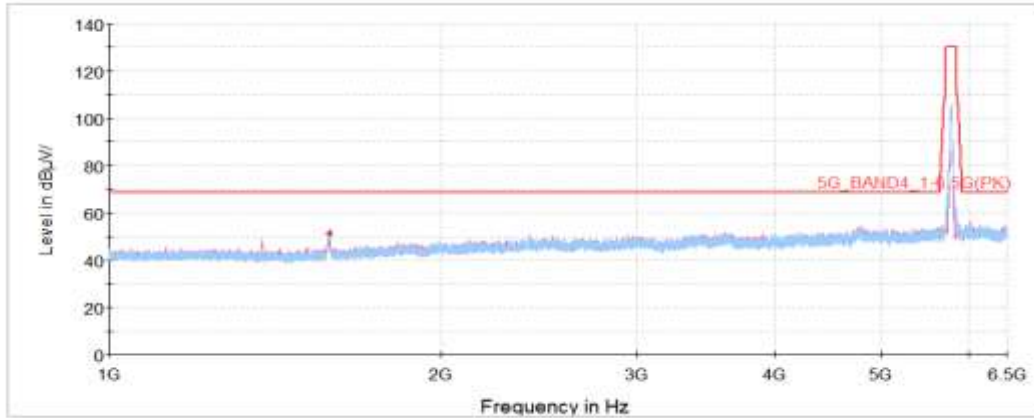
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

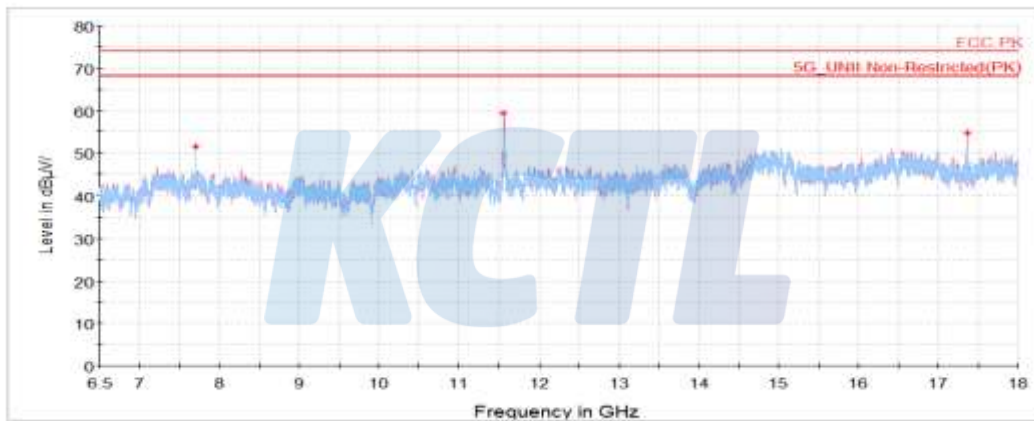
Page (987) of (1046)



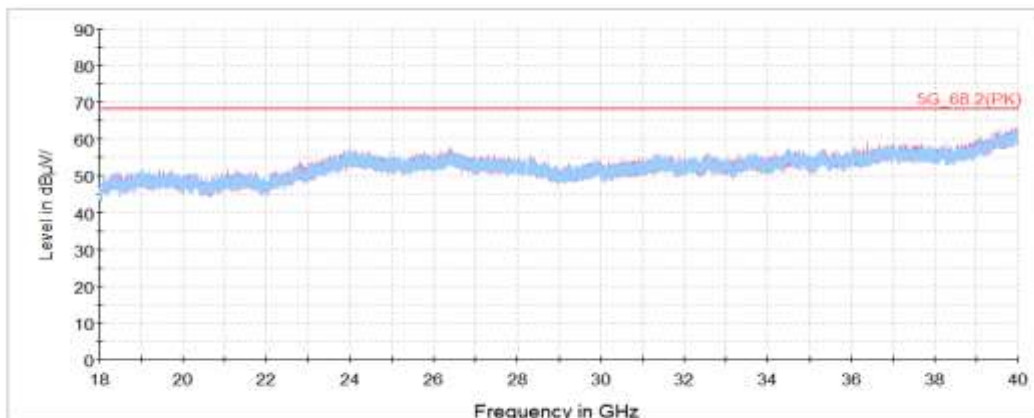
Horizontal/Vertical for 1 GHz ~ 6.5 GHz



Horizontal/Vertical for 6.5 GHz ~ 18 GHz



Horizontal/Vertical for 18 GHz ~ 40 GHz



KCTL Inc.

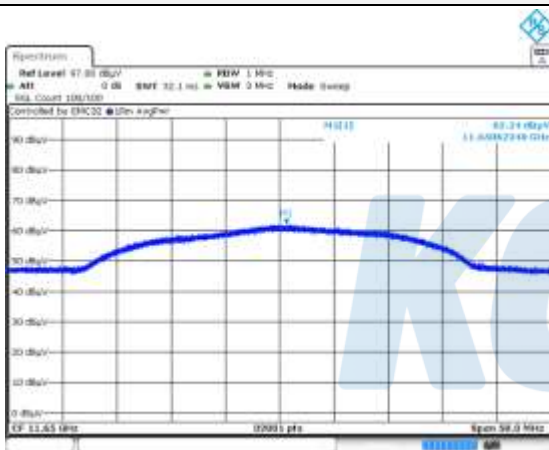
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

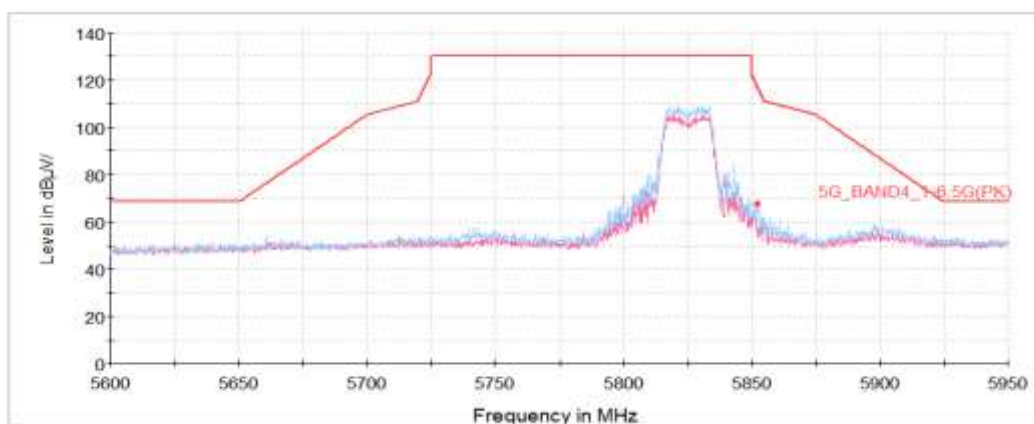
Page (988) of (1046)

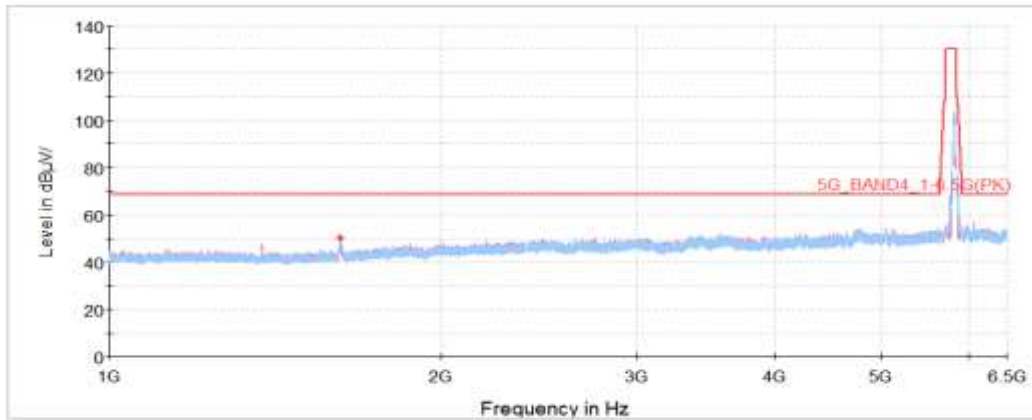
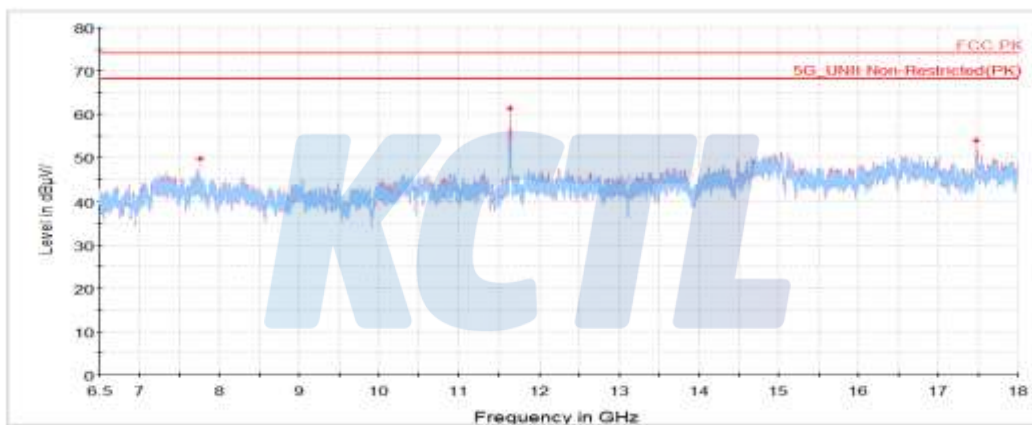
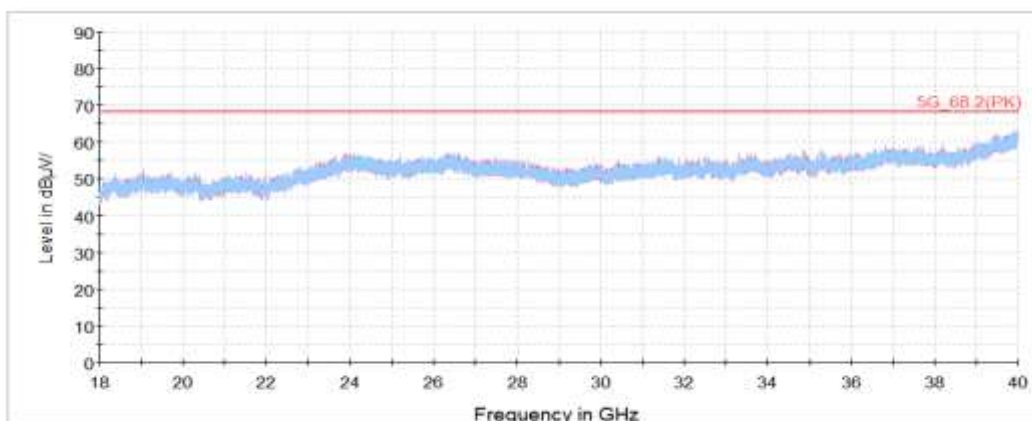
**Highest Channel (5 825 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 852.03	H	59.09	35.22	-26.67	-	67.64	117.57	49.93
7 766.44	H	64.86	35.61	-50.70	-	49.77	68.20	18.43
11 650.62 ¹⁾	V	73.37	38.18	-50.15	-	61.40	74.00	12.60
17 482.86	V	61.28	41.11	-48.57	-	53.82	68.20	14.38
Average Data								
11 650.62 ¹⁾	V	62.24	38.18	-50.15	-	50.27	54.00	3.73

Average data (11 650.62 MHz)

Blank

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

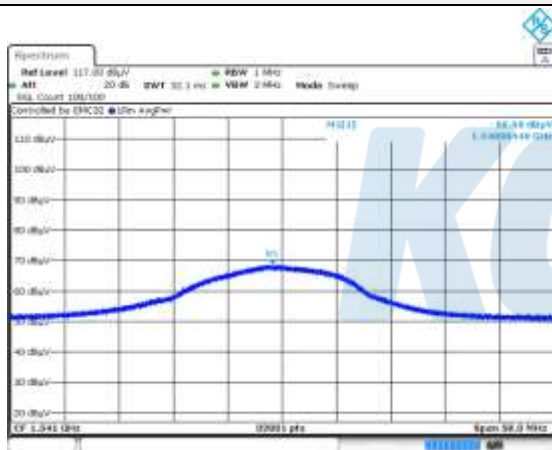
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

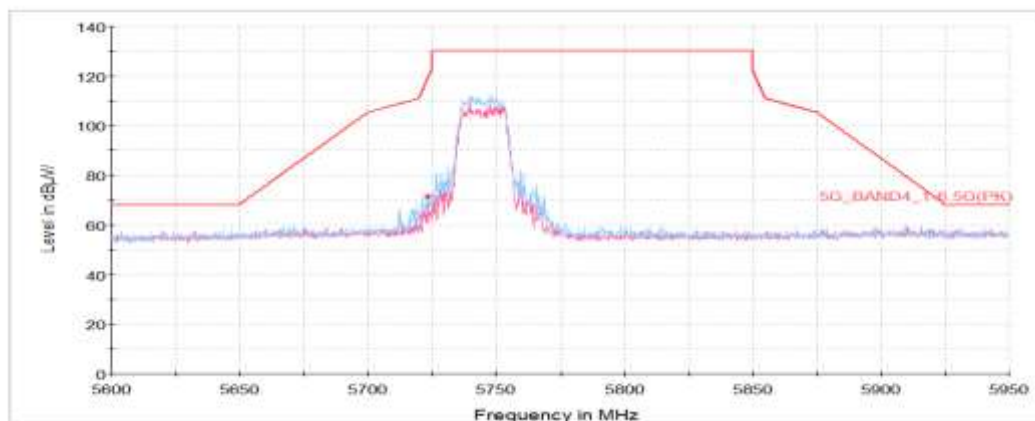
Page (990) of (1046)

**802.11ac VHT20 UNII 3 ANT 1****Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 540.08 ¹⁾	H	76.48	28.25	-50.05	-	54.68	74.00	19.32
5 723.47	H	62.12	35.07	-25.90	-	71.29	118.71	47.42
11 489.92 ¹⁾	H	58.35	37.99	-50.07	-	46.27	74.00	27.73
17 234.53	V	56.75	41.21	-47.72	-	50.24	68.20	17.96
Average Data								
1 540.08 ¹⁾	H	68.68	28.25	-50.05	-	46.88	54.00	7.12

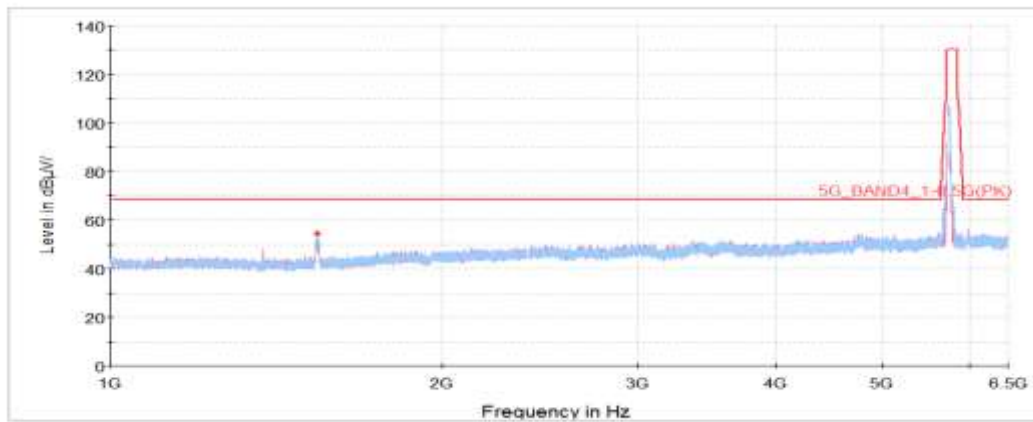
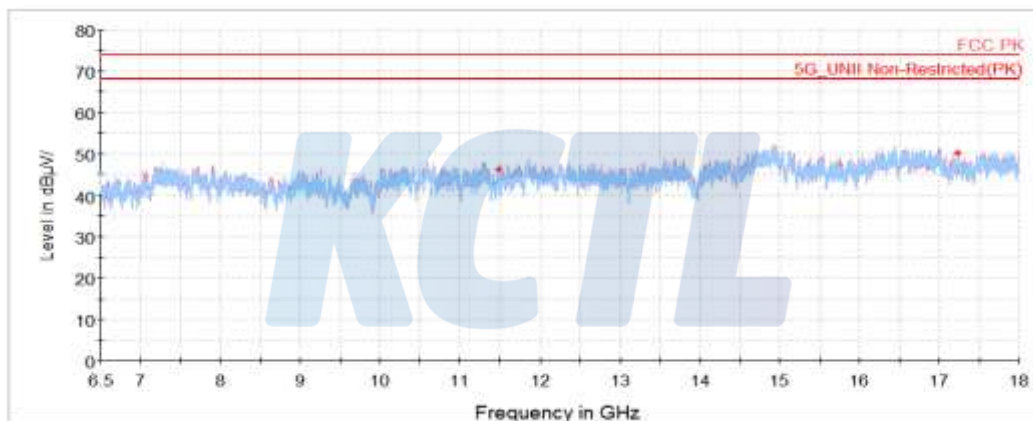
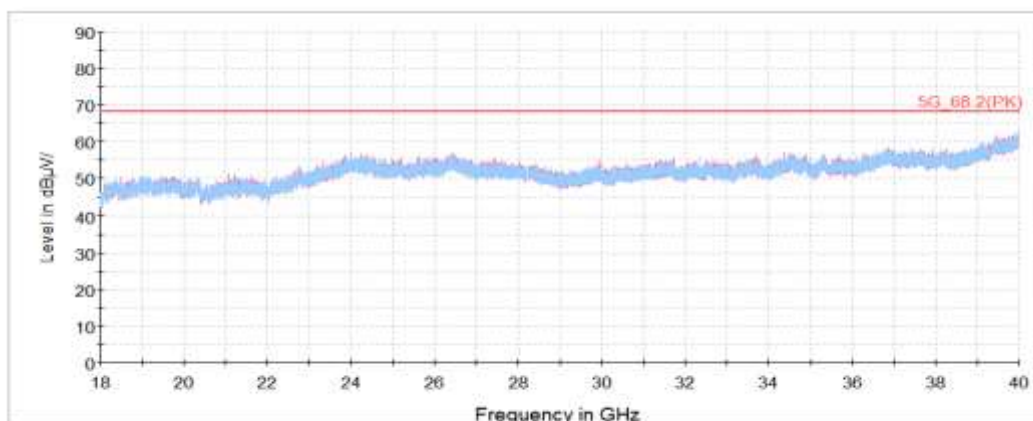
Average data (1 540.08 MHz)

Blank

Horizontal/Vertical for Band-edge

This test report shall not be reproduced, except in full, without the written approval

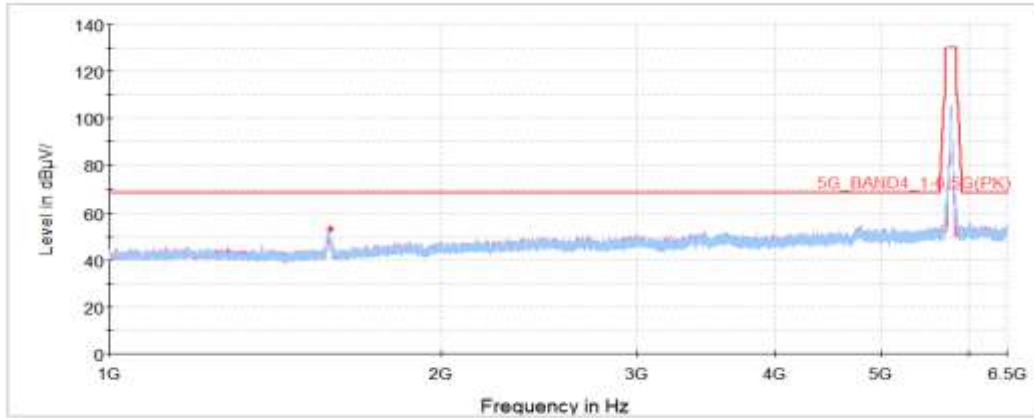
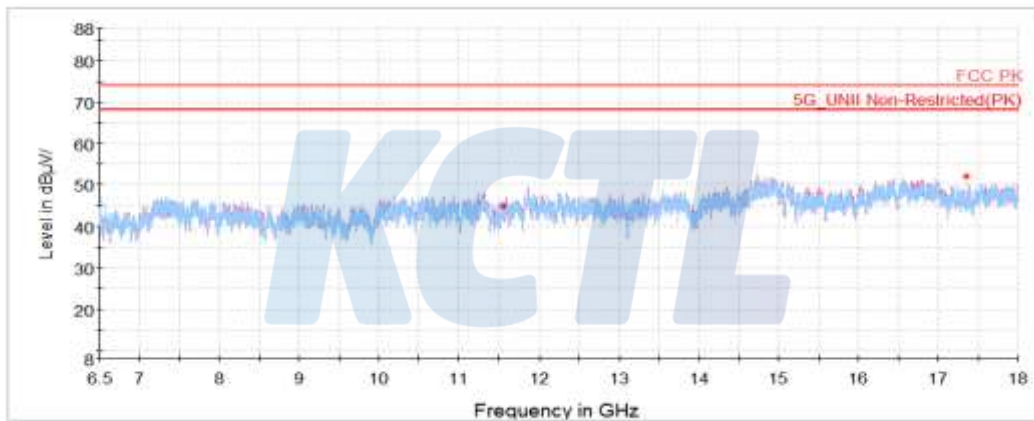
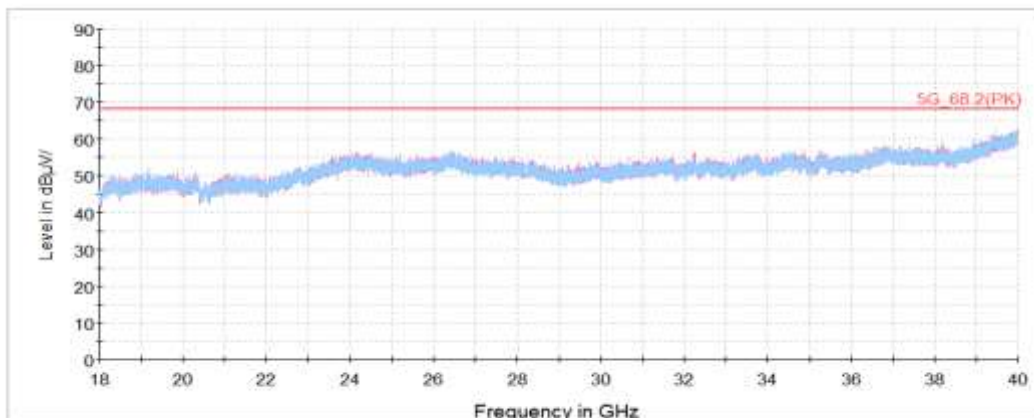
KCTL-TIR001-003/2

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 785 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 570.06 ¹⁾	H	56.65	38.08	-50.10	-	44.63	74.00	29.37
17 360.31	V	58.87	41.16	-48.15	-	51.88	74.00	22.12
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

KCTL

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

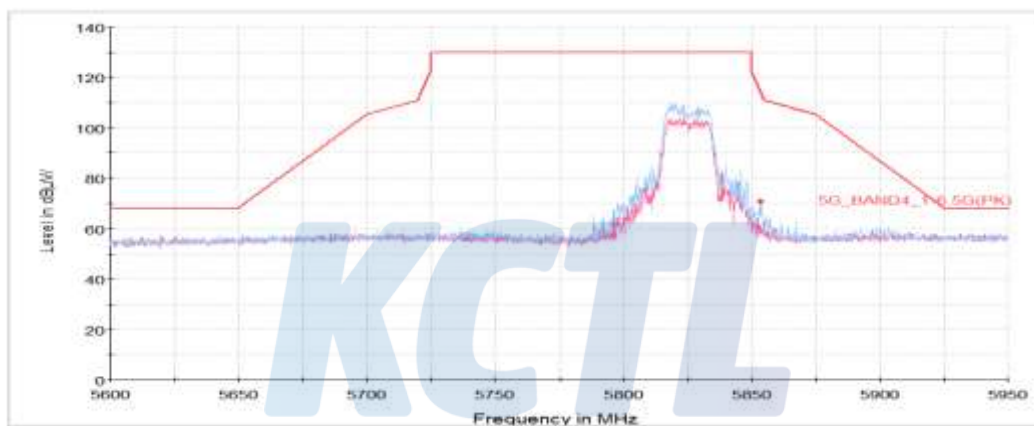
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

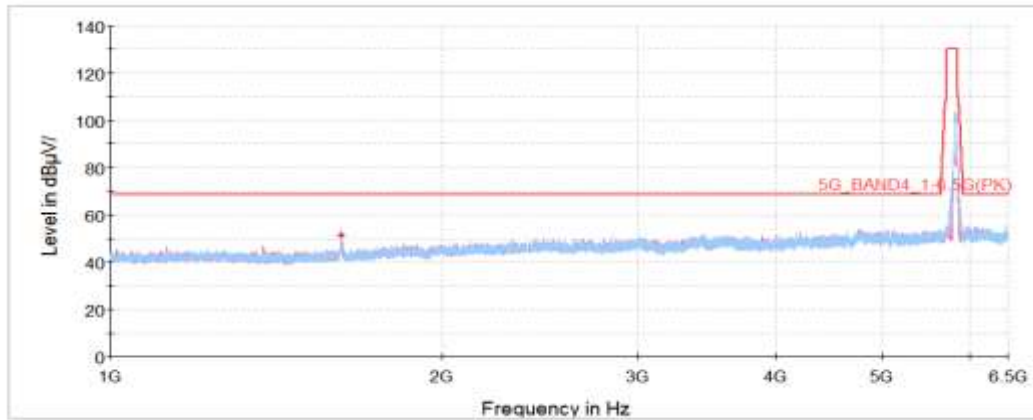
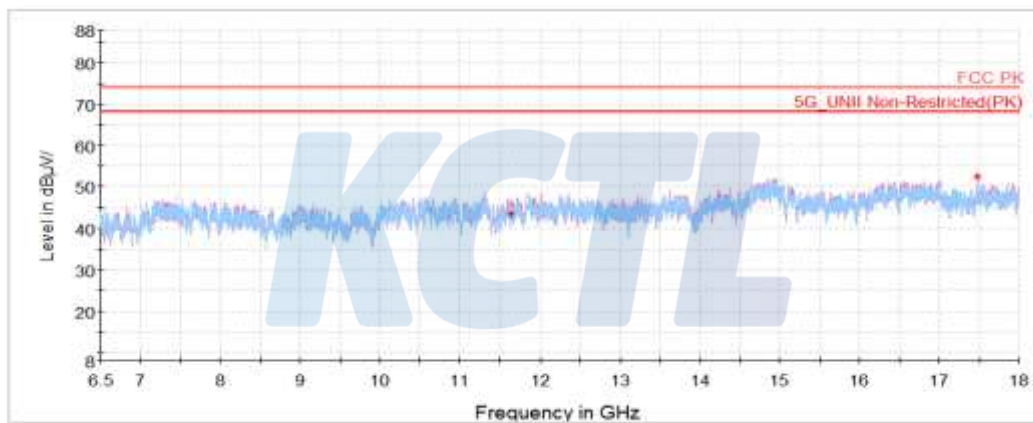
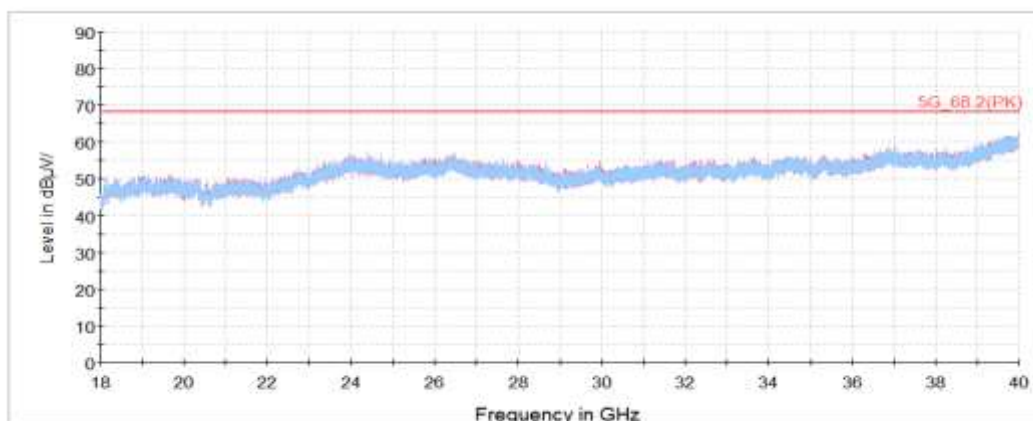
Report No.:
KR20-SRF0030-D

Page (994) of (1046)

KCTL**Highest Channel (5 825 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 853.58	H	62.14	35.22	-26.66	-	70.70	114.04	43.34
11 650.56 ¹⁾	H	55.20	38.18	-50.15	-	43.23	74.00	30.77
17 478.19	H	59.95	41.11	-48.56	-	52.50	68.20	15.70
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

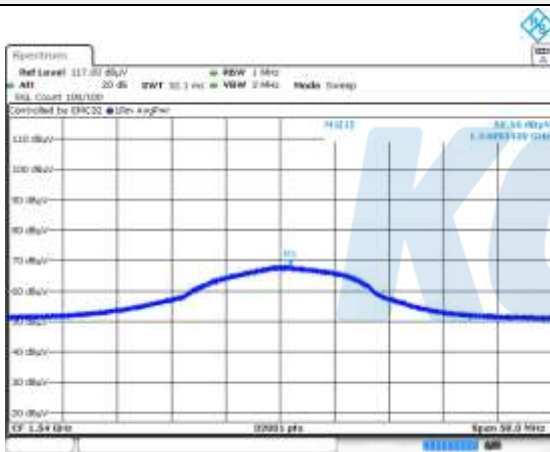
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

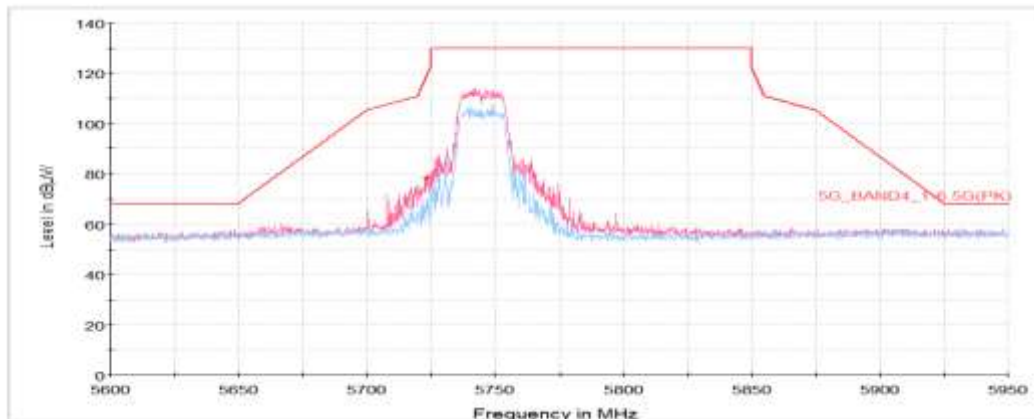
Page (996) of (1046)

**802.11ac VHT20 UNII 3 ANT 2****Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 540.93 ¹⁾	V	76.83	28.25	-50.05	-	55.03	74.00	18.97
5 723.47	V	69.06	35.07	-25.90	-	78.23	118.71	40.48
11 485.97 ¹⁾	V	60.47	37.99	-50.07	-	48.39	74.00	25.61
17 238.13	V	56.88	41.20	-47.73	-	50.35	68.20	17.85
Average Data								
1 540.93 ¹⁾	V	68.66	28.25	-50.05	-	46.86	54.00	7.14

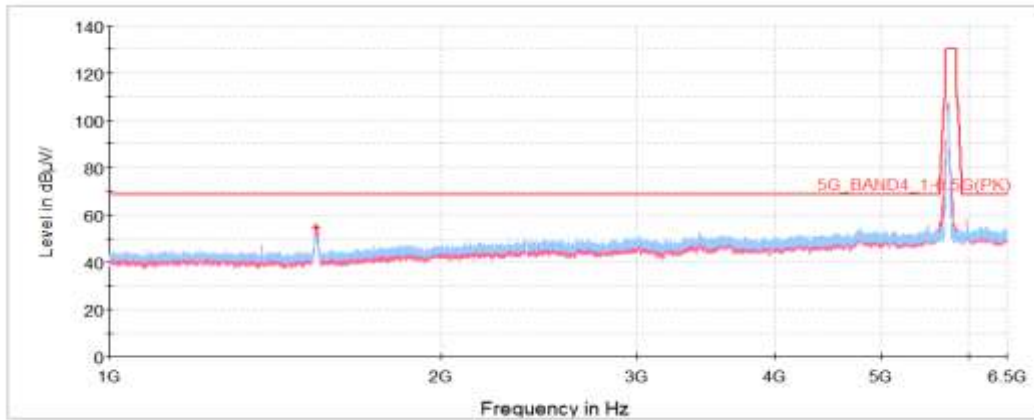
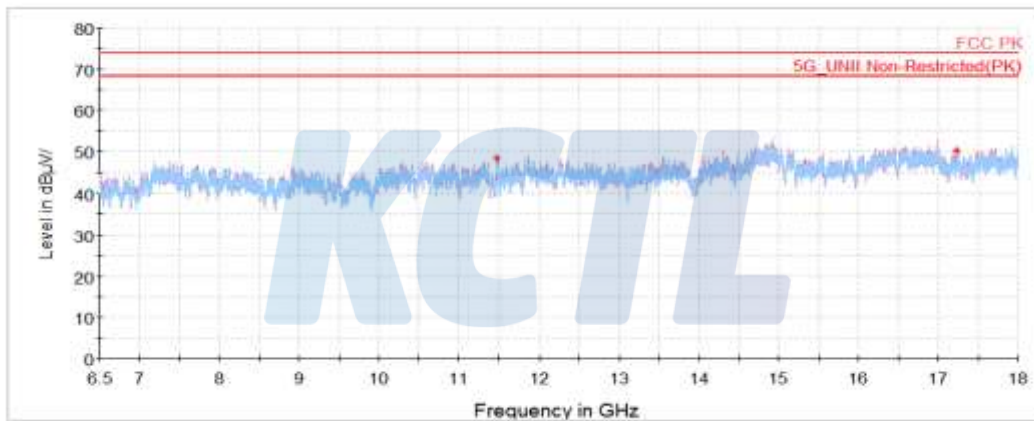
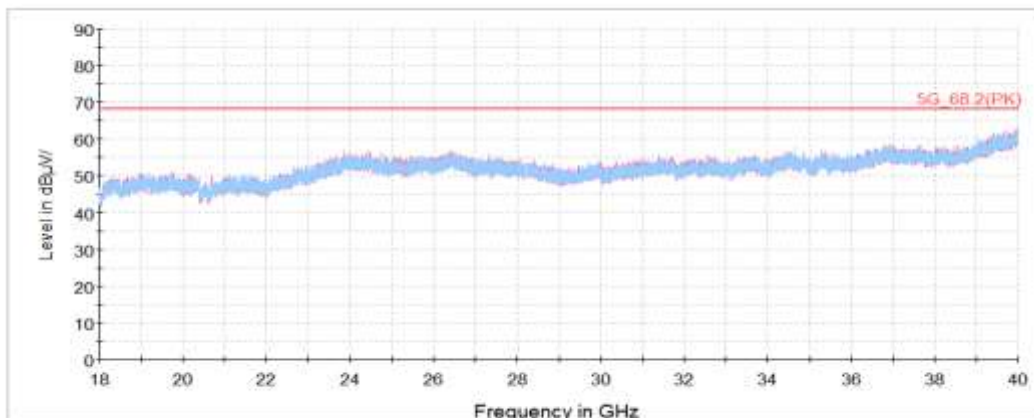
Average data (1 540.93 MHz)

Blank

Horizontal/Vertical for Band-edge

This test report shall not be reproduced, except in full, without the written approval

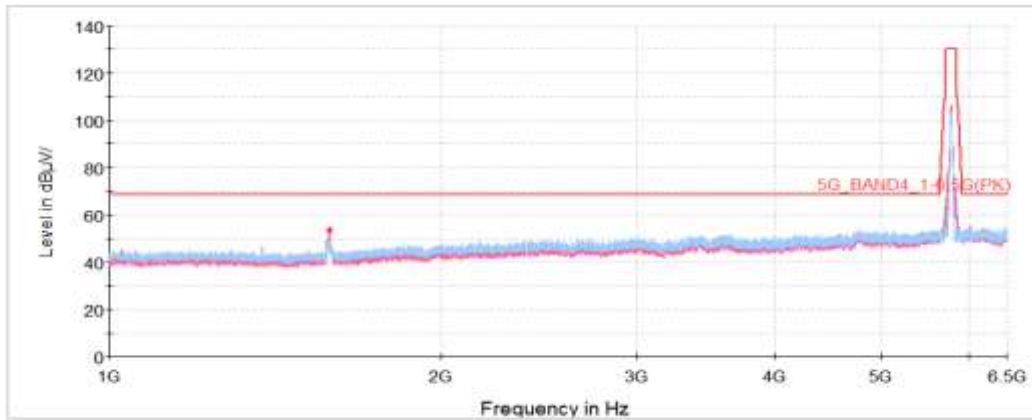
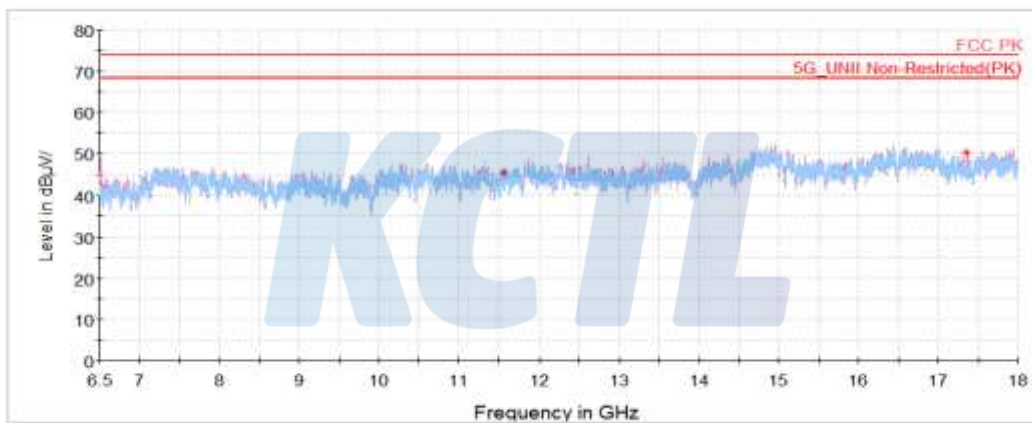
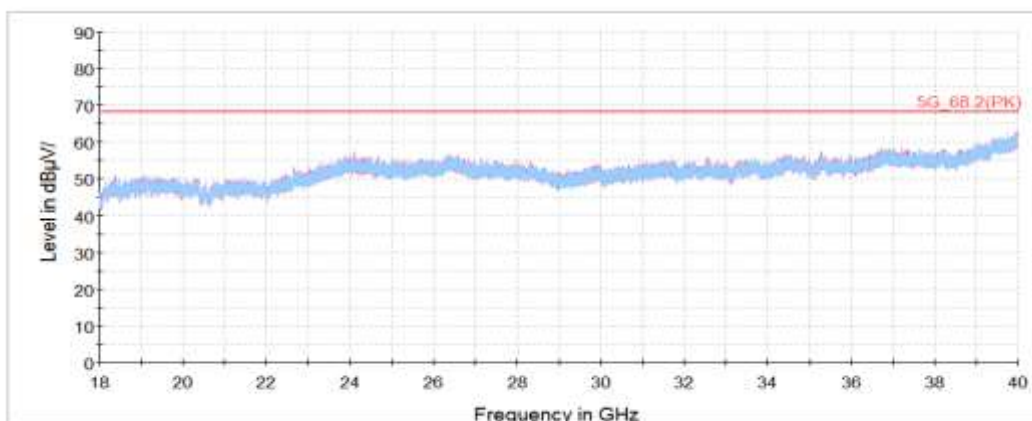
KCTL-TIR001-003/2

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 785 MHz)

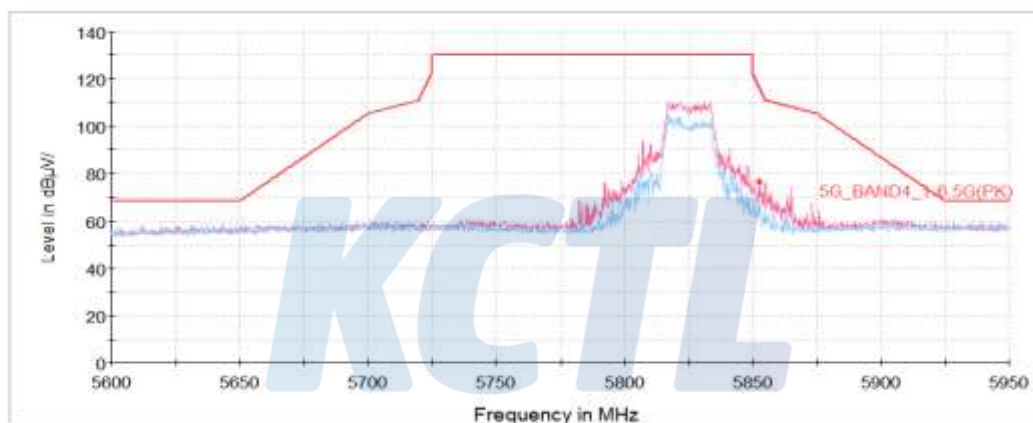
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 569.34 ¹⁾	V	57.39	38.08	-50.10	-	45.37	74.00	28.63
17 355.64	V	57.34	41.16	-48.13	-	50.37	68.20	17.83
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

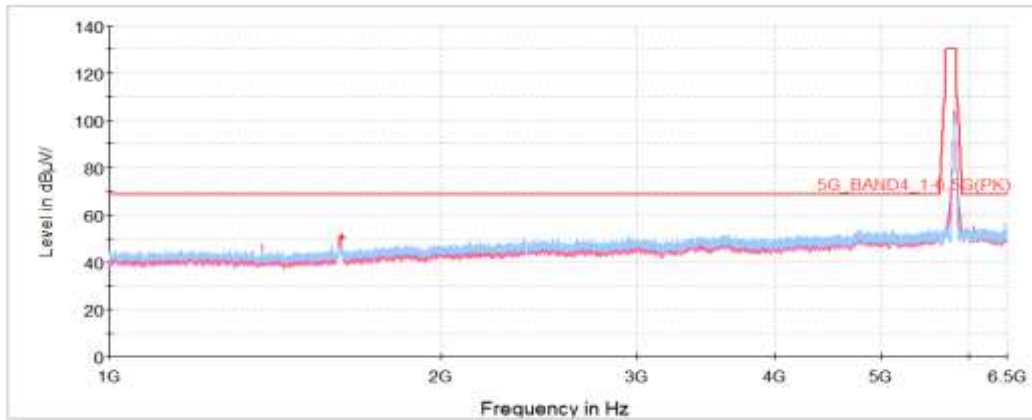
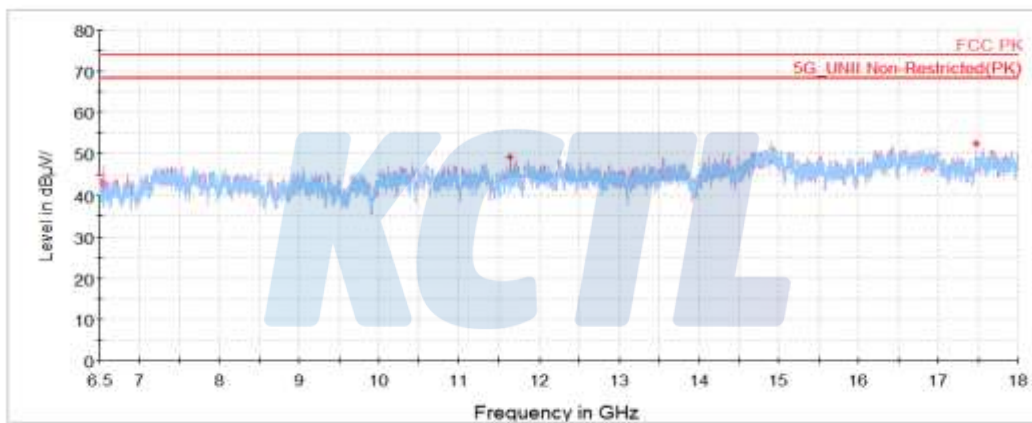
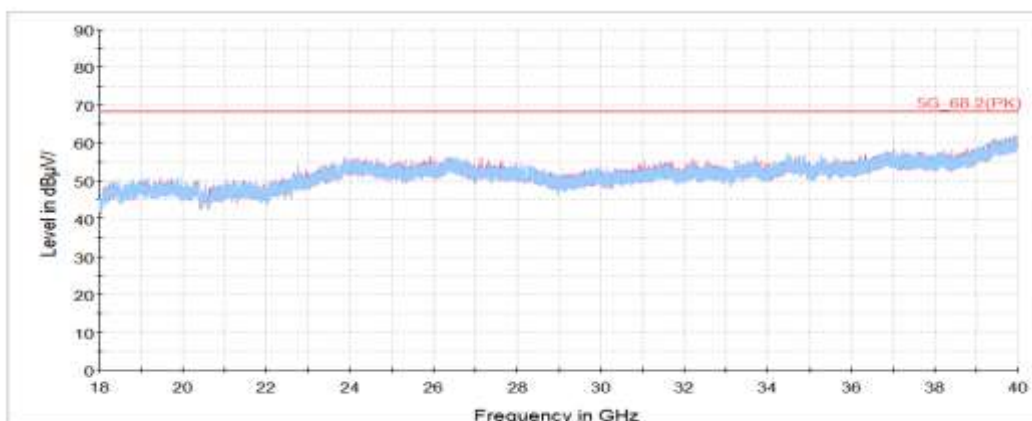
KCTL

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Highest Channel (5 825 MHz)

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Antenna Factor (dB)	Amp. + Cable (dB)	DCCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
5 852.38	V	67.90	35.22	-26.67	-	76.45	116.79	40.33
11 652.36 ¹⁾	V	61.10	38.18	-50.15	-	49.13	74.00	24.87
17 479.63	H	59.92	41.11	-48.56	-	52.47	68.20	15.73
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

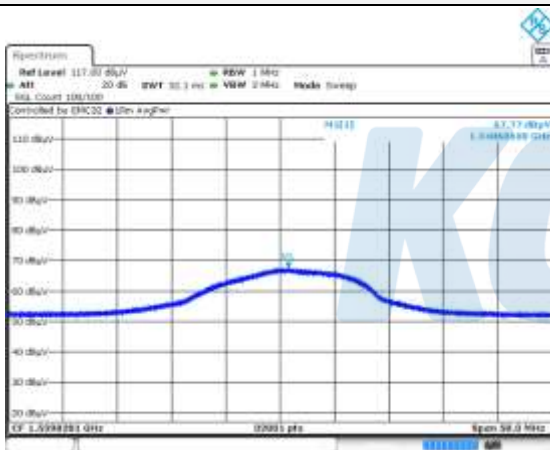
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

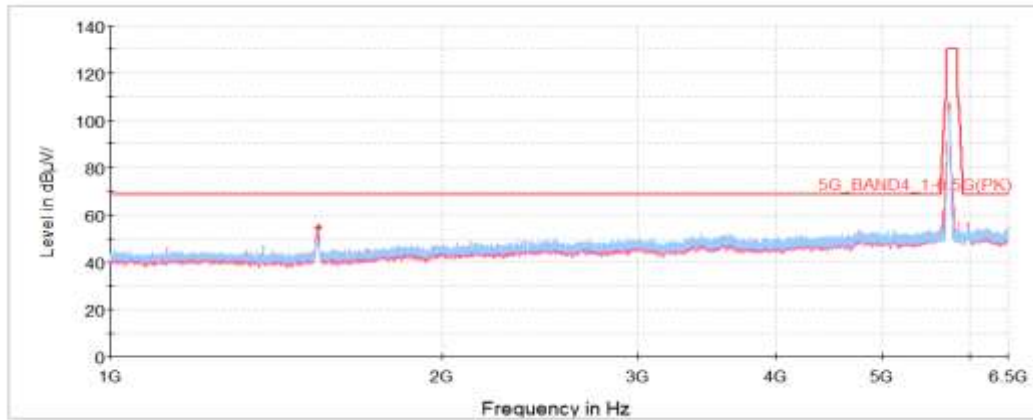
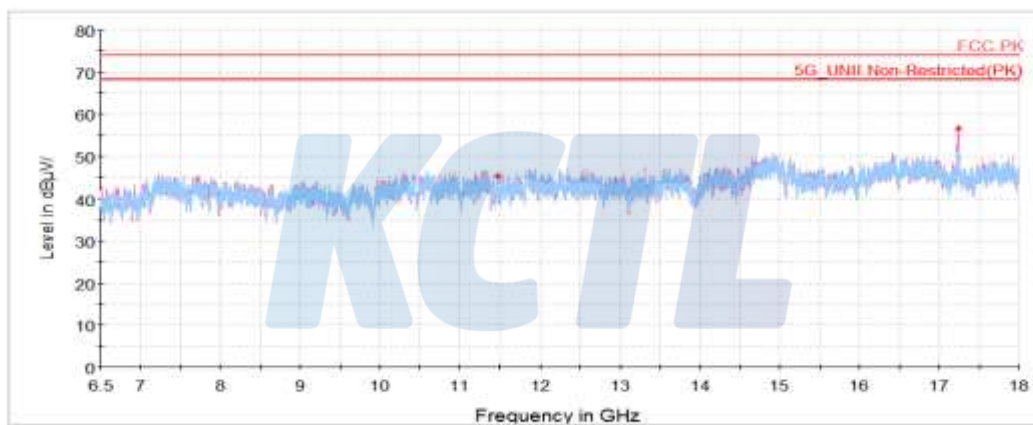
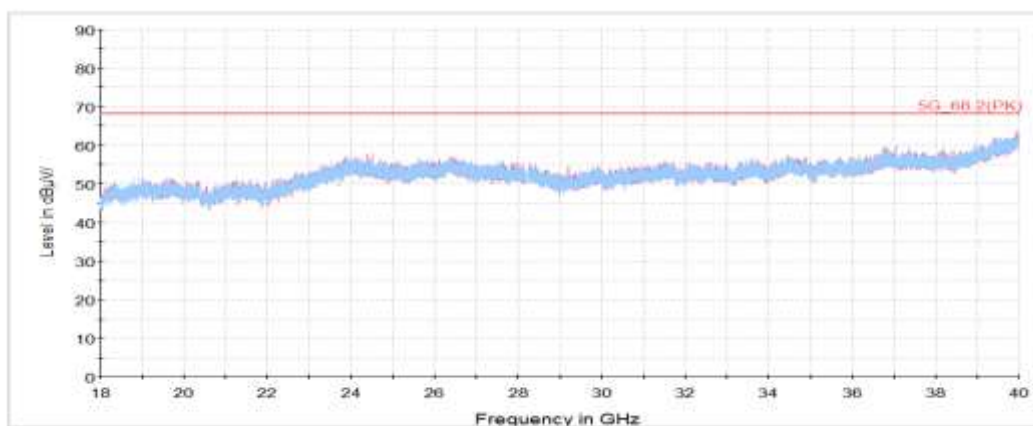
Page (1002) of (1046)

**802.11ac VHT20 UNII 3 ANT 3****Lowest Channel (5 745 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 540.61 ¹⁾	V	76.63	28.25	-50.05	-	54.83	74.00	19.17
5 724.84	V	68.11	35.07	-25.91	-	77.27	121.84	44.58
11 485.61 ¹⁾	V	57.35	37.99	-50.07	-	45.27	74.00	28.73
17 238.48	V	63.08	41.20	-47.73	-	56.55	68.20	11.65
Average Data								
1 540.61 ¹⁾	V	67.77	28.25	-50.05	-	45.97	54.00	8.03

Average data (1 540.61 MHz)

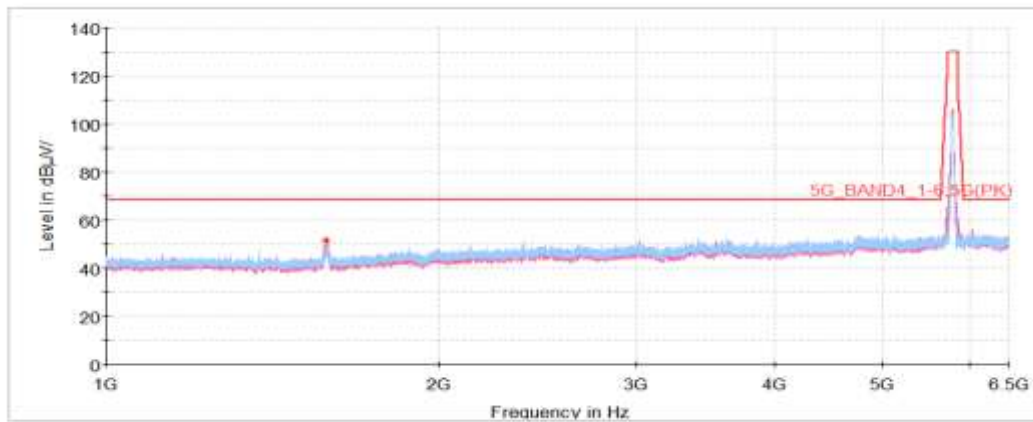
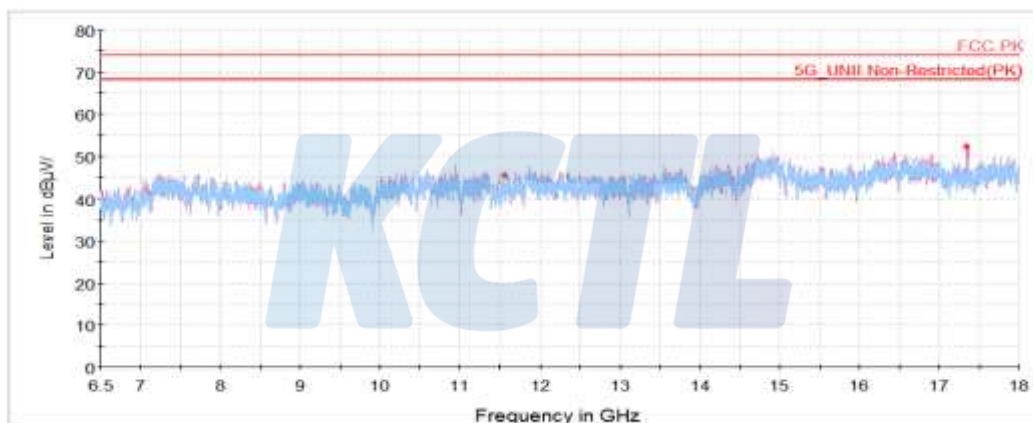
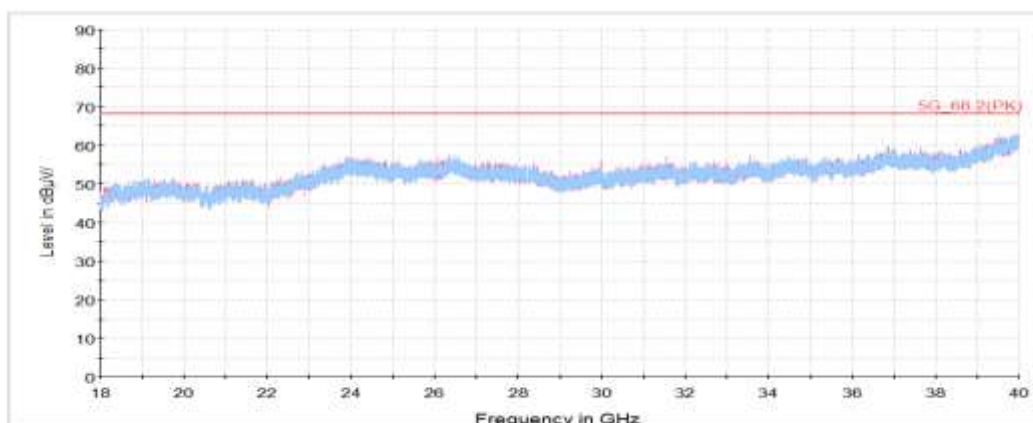
Blank

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 785 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
11 569.70 ¹⁾	V	57.58	38.08	-50.10	-	45.56	74.00	28.44
17 348.09	V	59.38	41.16	-48.11	-	52.43	68.20	15.77
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

KCTL

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

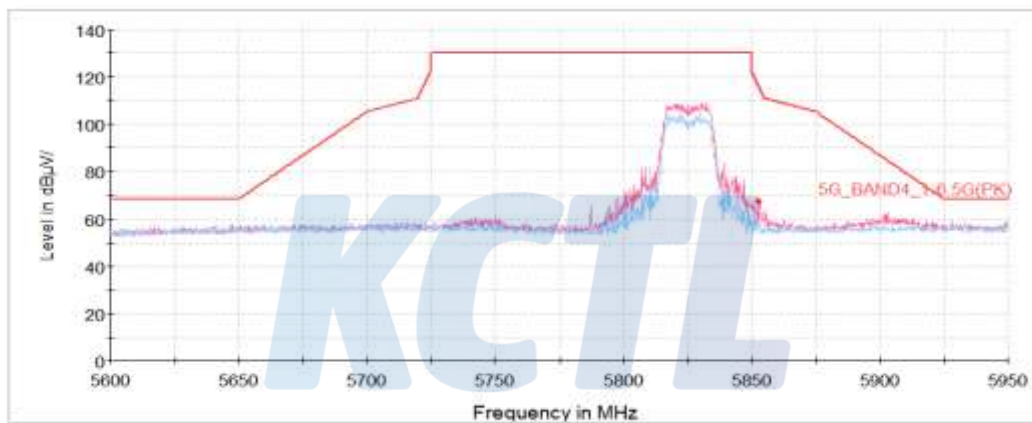
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

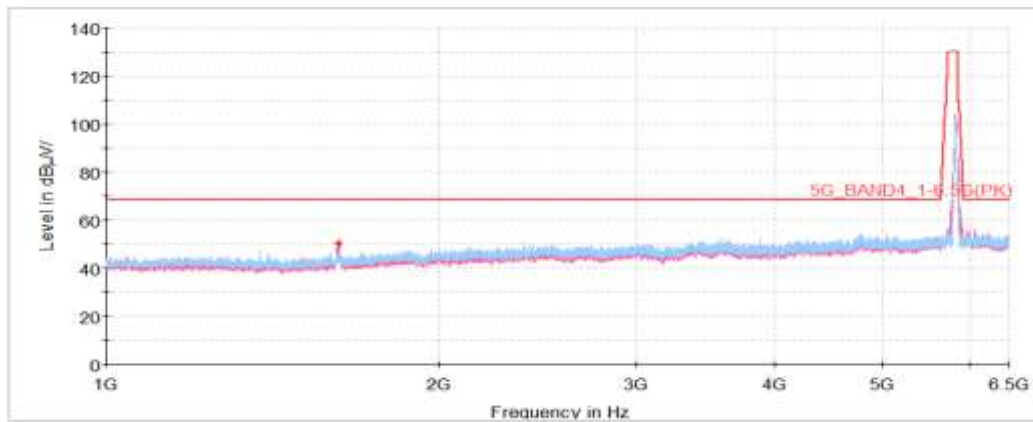
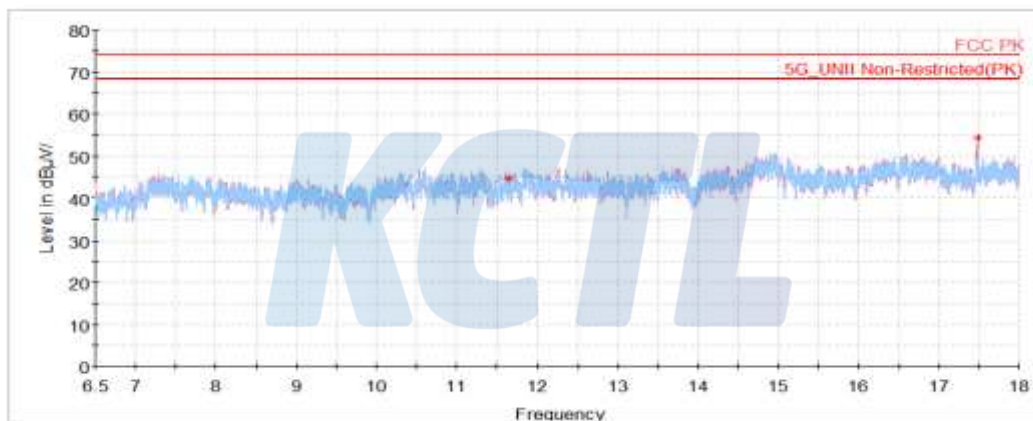
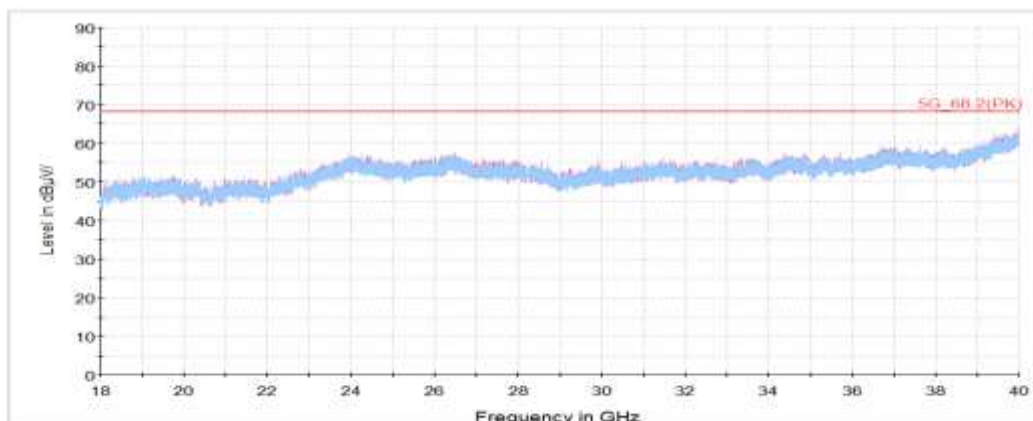
Report No.:
KR20-SRF0030-D

Page (1006) of (1046)

**Highest Channel (5 825 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 852.72	V	58.91	35.22	-26.66	-	67.47	116.00	48.53
11 654.88 ¹⁾	V	56.47	38.19	-50.15	-	44.51	74.00	29.49
17 482.50	V	61.60	41.11	-48.57	-	54.14	68.20	14.06
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

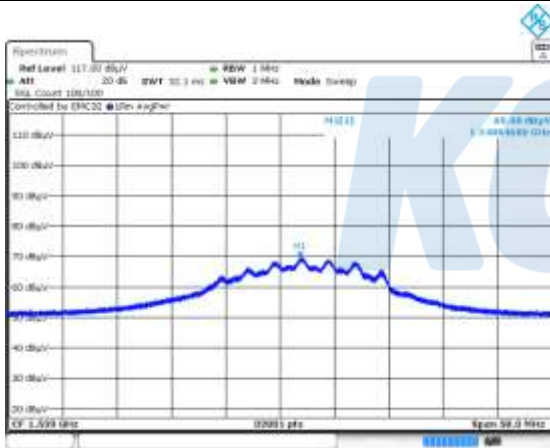
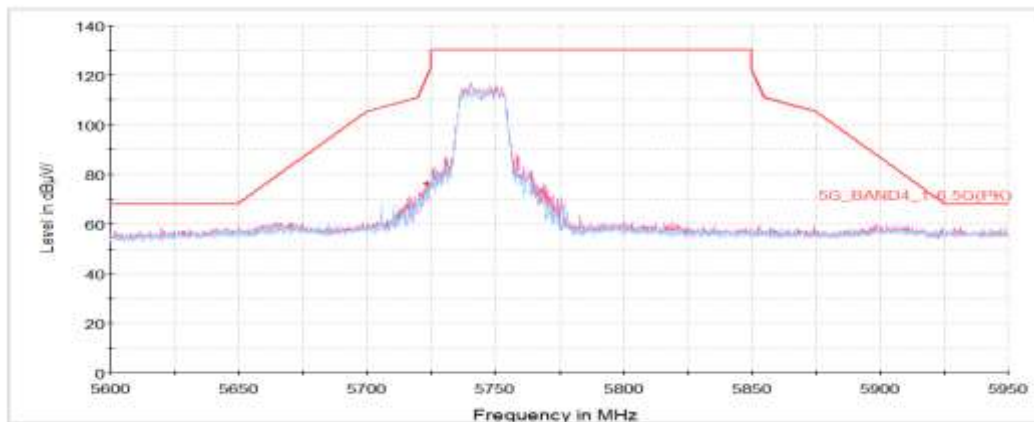
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

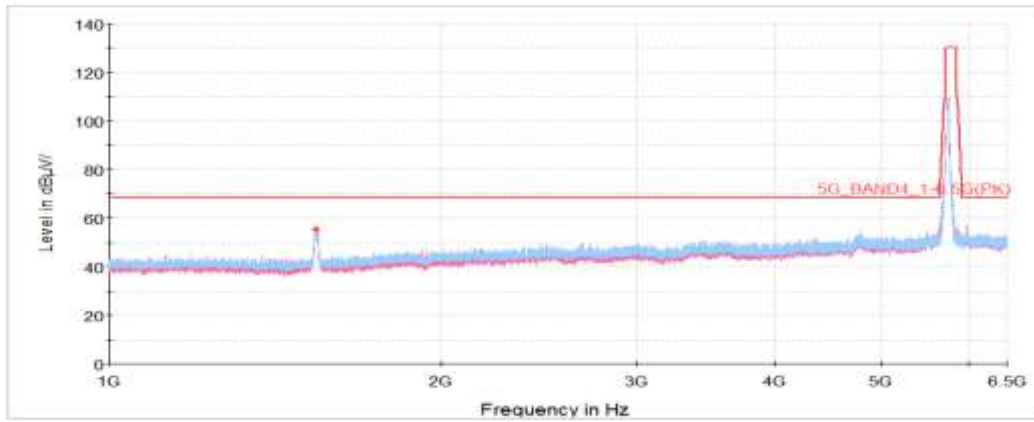
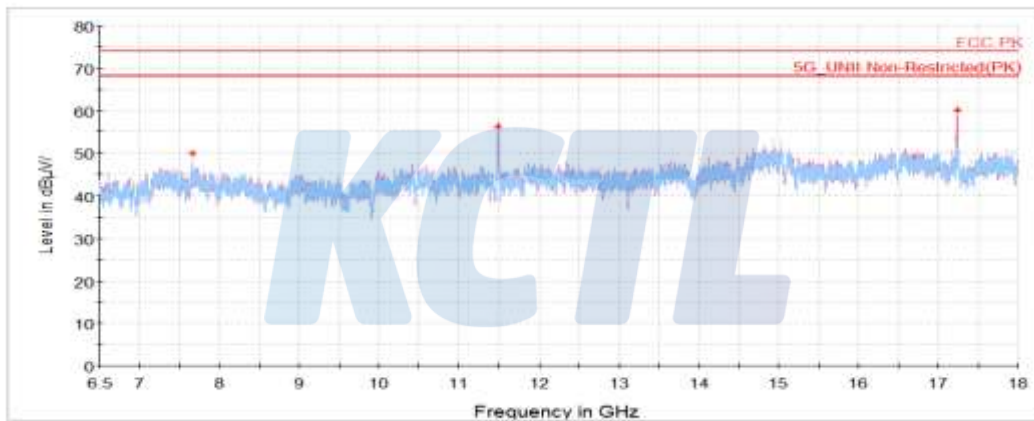
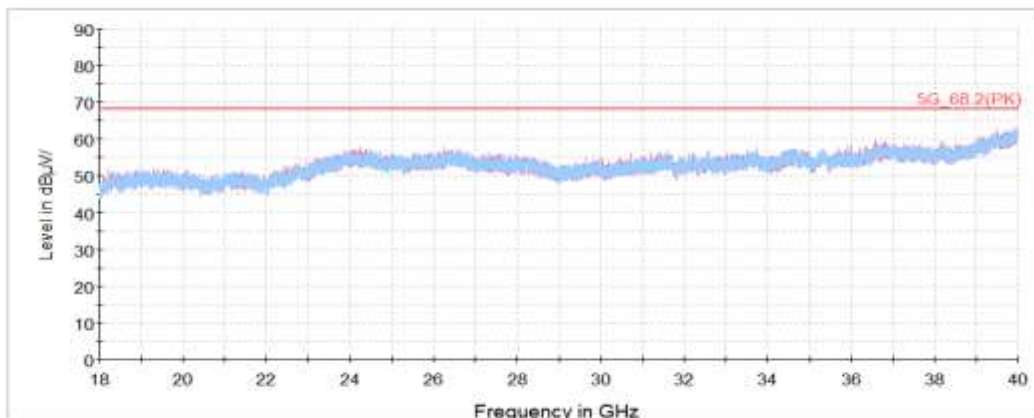
Report No.:
KR20-SRF0030-D

Page (1008) of (1046)

**802.11ac VHT20 UNII 3 4TX MINO****Lowest Channel (5 745 MHz)**

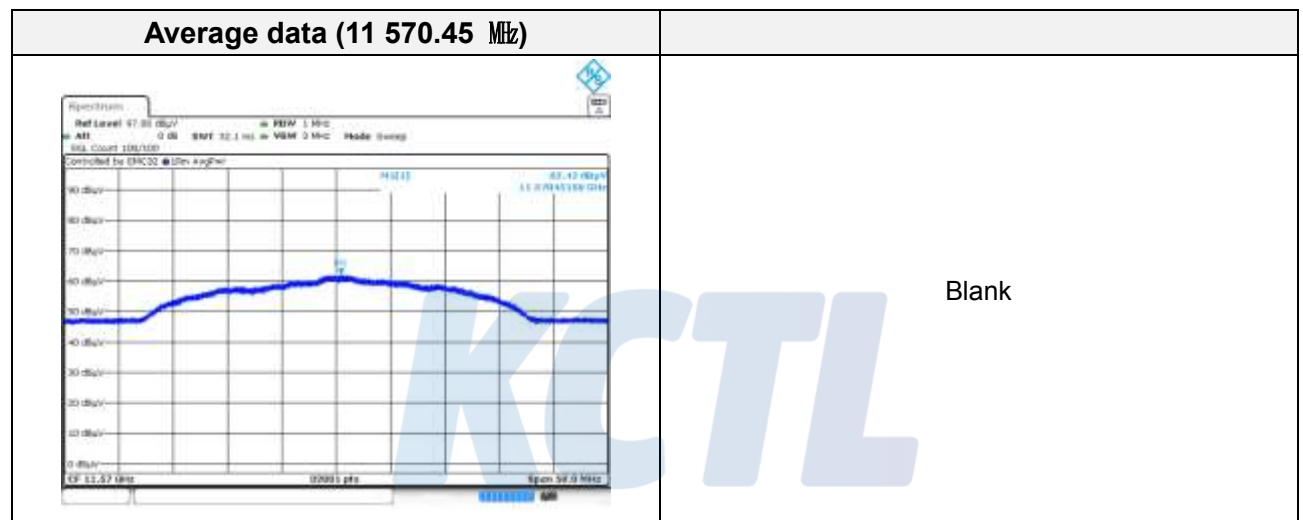
Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
1 540.85 ¹⁾	H	77.47	28.25	-50.05	-	55.67	74.00	18.33
5 723.47	V	67.02	35.07	-25.90	-	76.19	118.71	42.52
11 490.90 ¹⁾	V	68.30	37.99	-50.07	-	56.22	74.00	17.78
17 245.67	V	66.68	41.20	-47.76	-	60.12	68.20	8.08
Average Data								
1 540.85 ¹⁾	V	69.88	28.25	-50.05	-	48.08	54.00	5.92
11 490.90 ¹⁾	V	62.54	37.99	-50.07	-	50.46	54.00	3.54

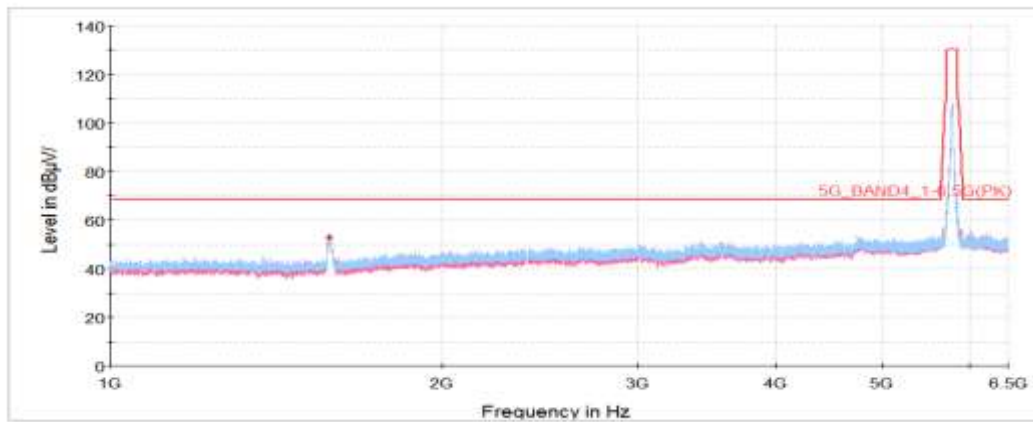
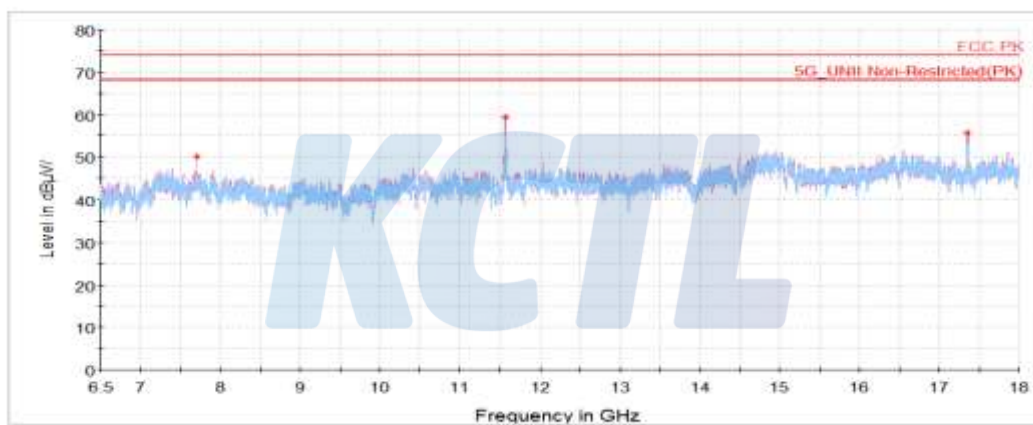
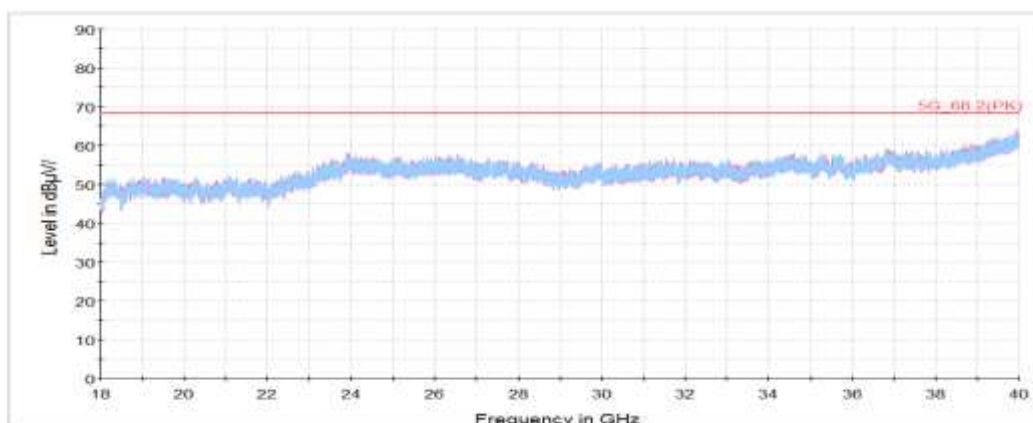
Average data (1 540.85 MHz)**Average data (11 490.90 MHz)****Horizontal/Vertical for Band-edge**

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

Middle Channel (5 785 MHz)

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
7 713.25 ¹⁾	V	65.09	35.57	-50.63	-	50.03	74.00	23.97
11 570.45 ¹⁾	V	71.22	38.08	-50.10	-	59.20	74.00	14.80
17 361.39	V	62.73	41.16	-48.15	-	55.74	68.20	12.46
Average Data								
11 570.45 ¹⁾	V	62.42	38.08	-50.10	-	50.40	54.00	3.60



Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

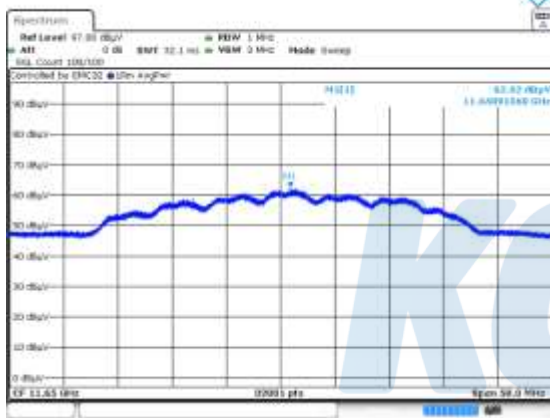
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

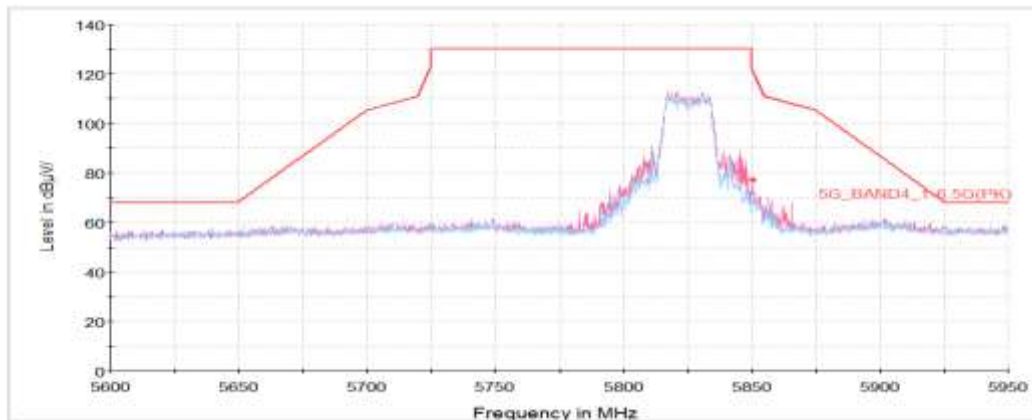
Page (1012) of (1046)

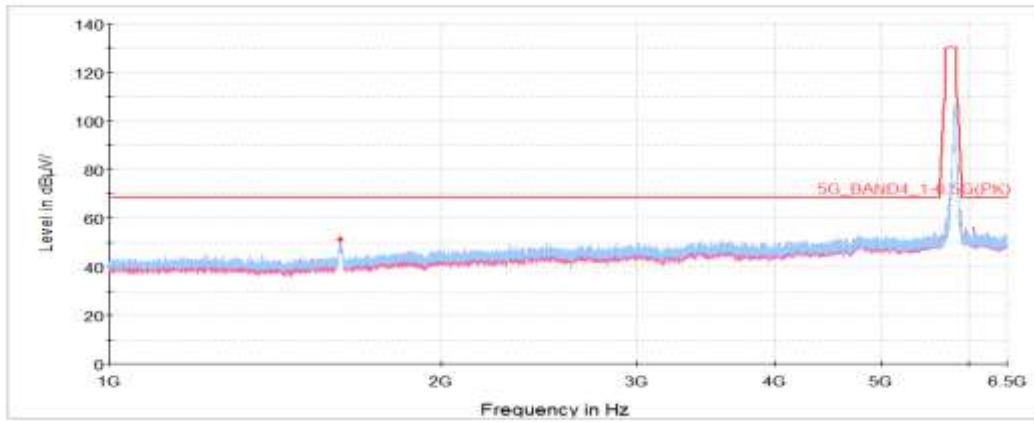
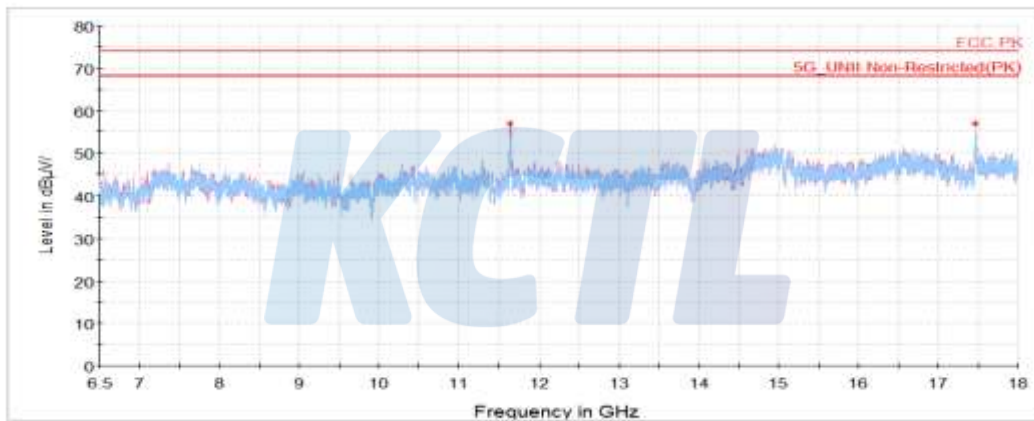
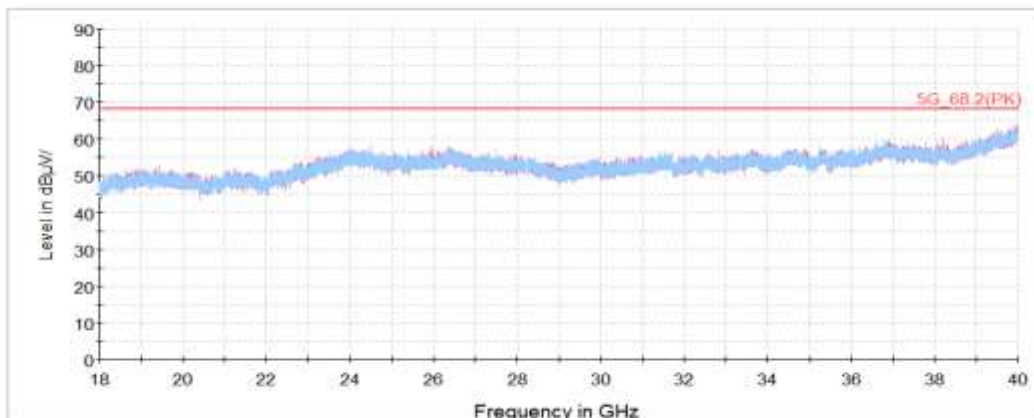
**Highest Channel (5 825 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5850.48	V	68.55	35.22	-26.68	-	77.09	121.10	44.01
11 650.92 ¹⁾	V	68.85	38.18	-50.15	-	56.88	74.00	17.12
17 465.25	H	64.26	41.11	-48.51	-	56.86	68.20	11.34
Average Data								
11 650.92 ¹⁾	V	62.62	38.18	-50.15	-	50.65	54.00	3.35

Average data (11 650.92 MHz)

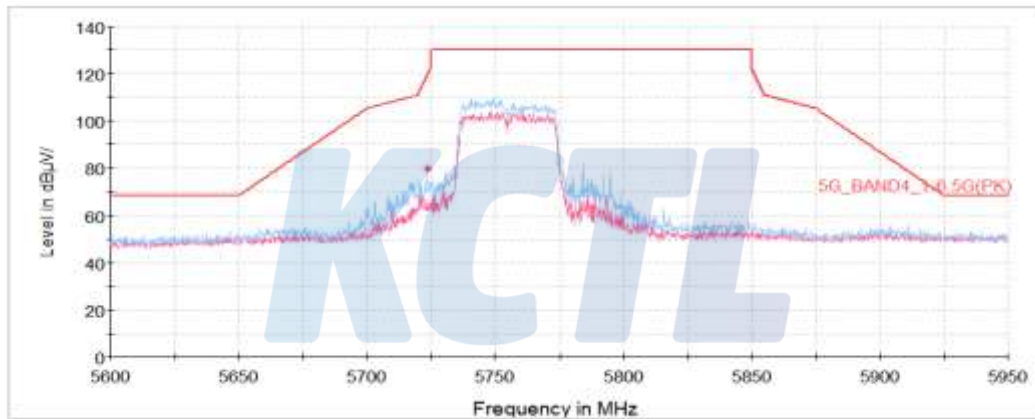
Blank

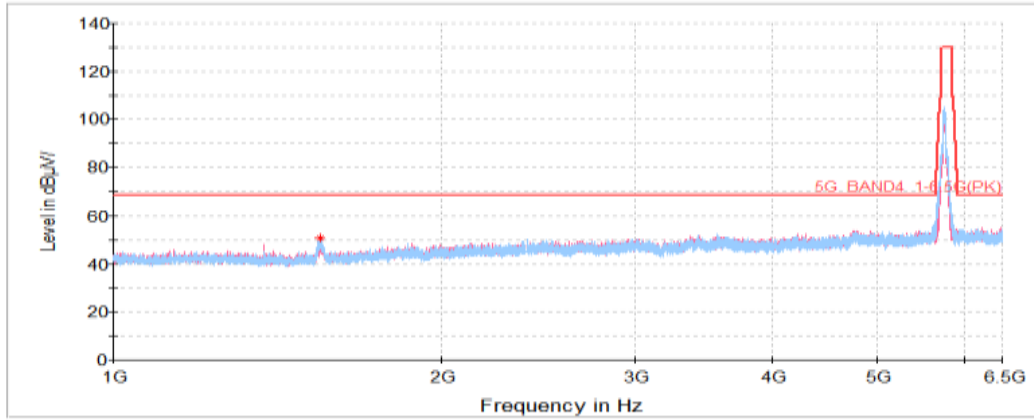
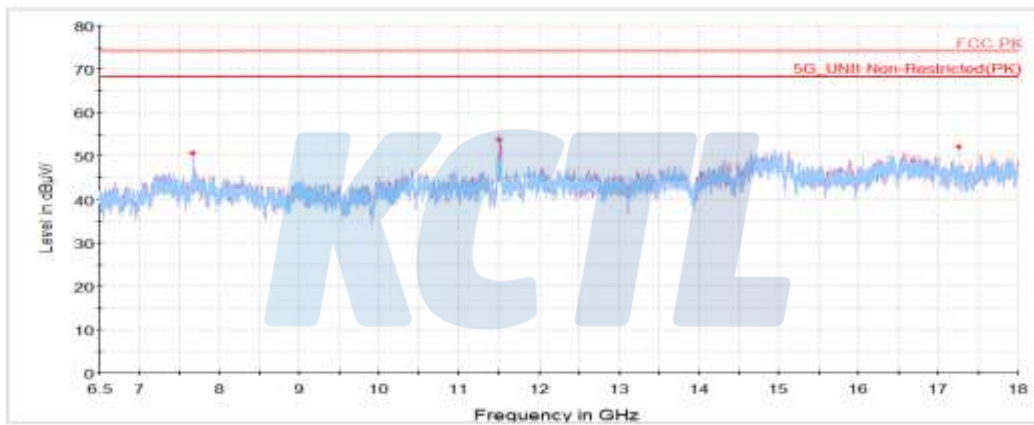
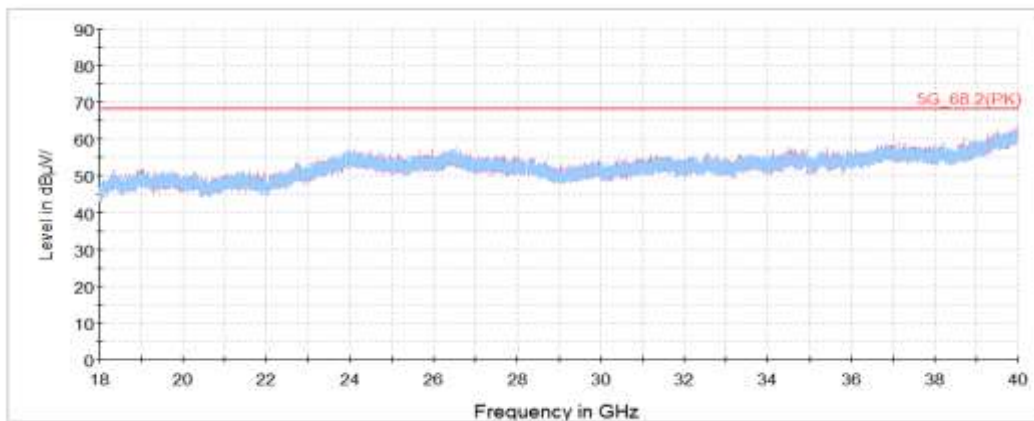
Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11ac VHT40 UNII 3 ANT 0**Lowest Channel (5 755 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 723.81	H	70.23	35.07	-25.90	-	79.40	119.49	40.09
11 510.12 ¹⁾	V	65.72	38.01	-50.06	-	53.67	74.00	20.33
17 253.94	H	58.65	41.20	-47.78	-	52.07	68.20	16.13
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

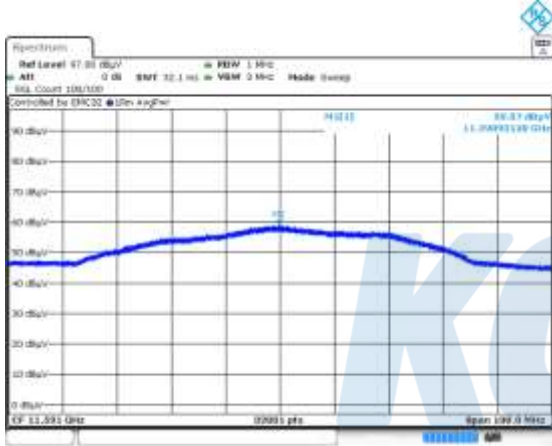
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

Report No.:
KR20-SRF0030-D

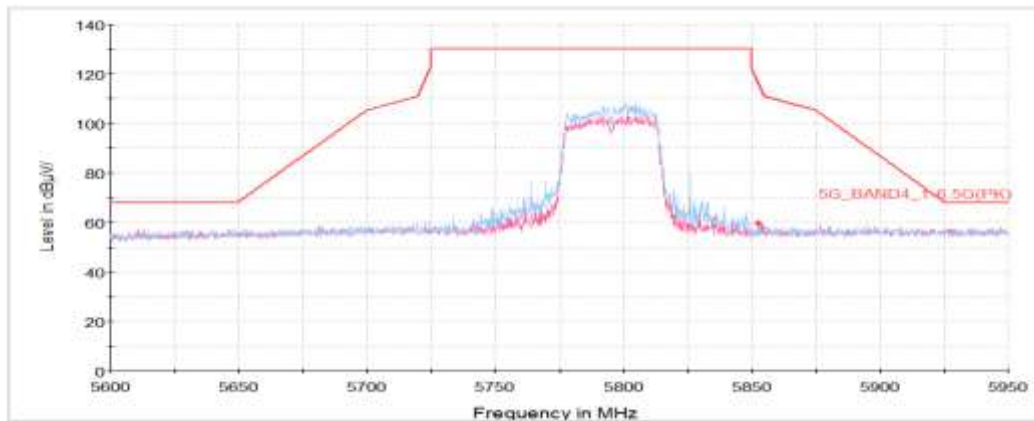
Page (1016) of (1046)

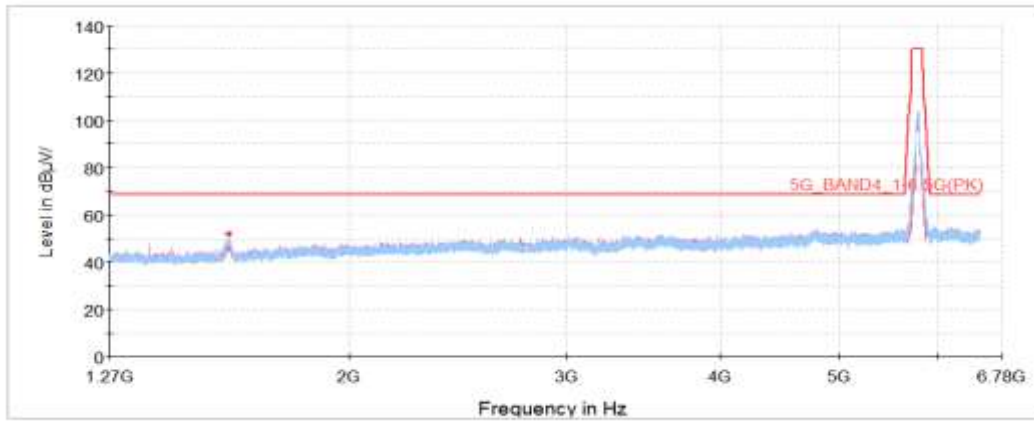
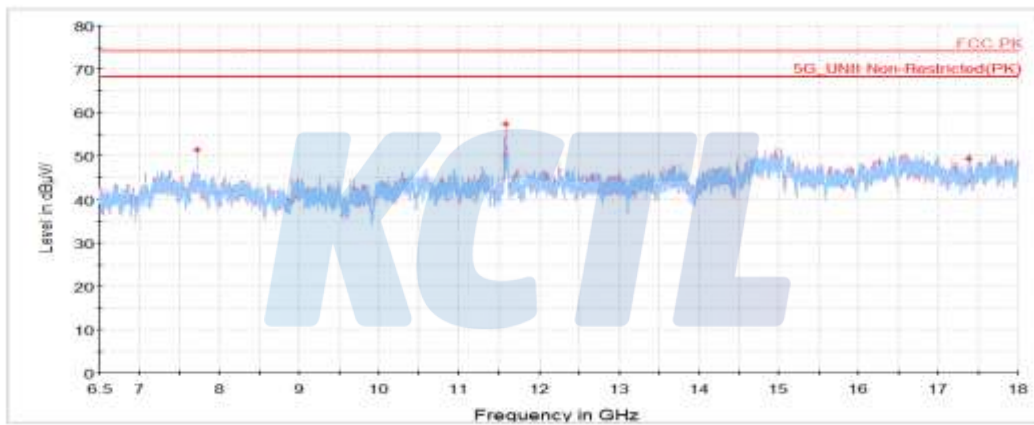
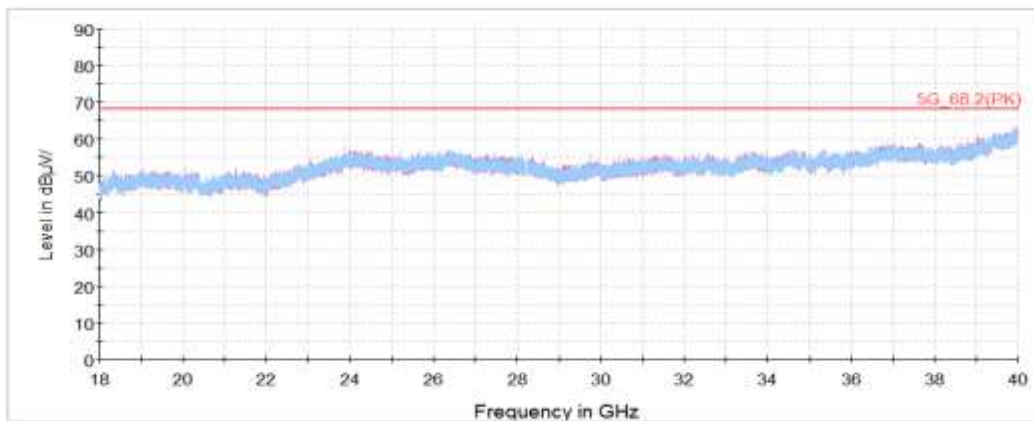
**Highest Channel (5 795 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB(μV/m))	(dB(μV/m))	(dB)
Peak data								
5 852.38	V	51.13	35.22	-26.67	-	59.68	116.79	57.10
11 590.93 ¹⁾	V	69.19	38.11	-50.11	-	57.19	74.00	16.81
17 386.91	H	56.34	41.15	-48.24	-	49.25	68.20	18.95
Average Data								
11 590.93 ¹⁾	V	59.07	38.11	-50.11	0.13	47.20	54.00	6.80

Average data (11 590.93 MHz)

Blank

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

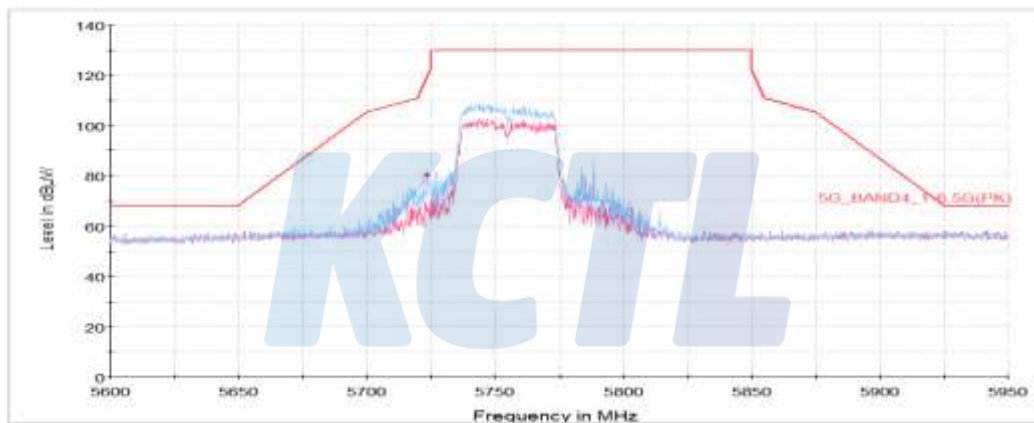
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

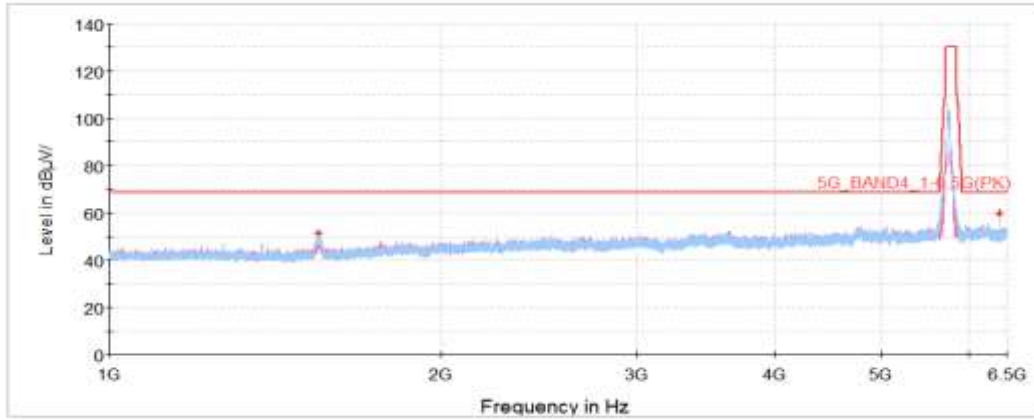
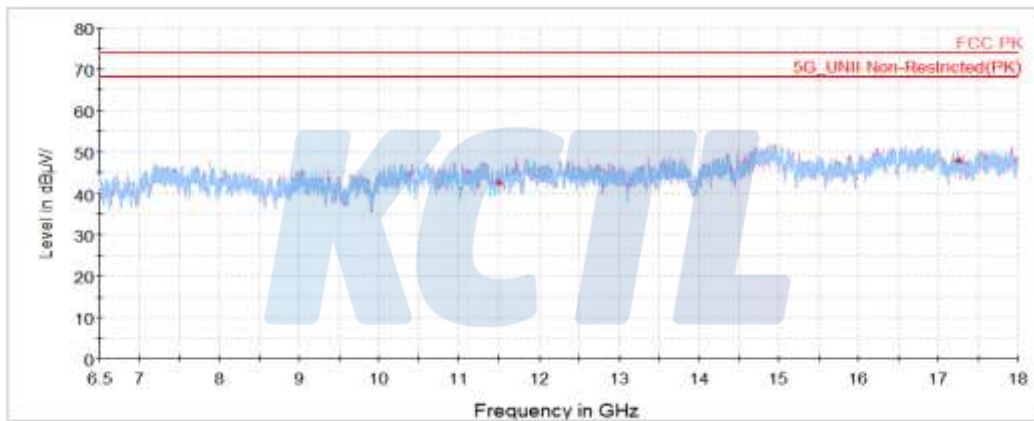
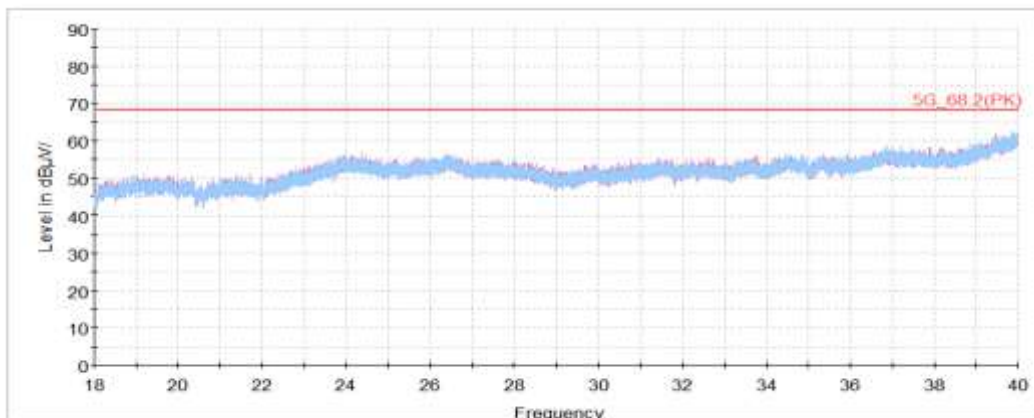
Report No.:
KR20-SRF0030-D

Page (1018) of (1046)

**802.11ac VHT40 UNII 3 ANT 1****Lowest Channel (5 755 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 723.64	H	70.97	35.07	-25.90	-	80.14	119.10	38.96
11 510.77 ¹⁾	V	54.42	38.01	-50.06	-	42.37	74.00	31.63
17 265.08	H	54.45	41.19	-47.82	-	47.82	68.20	20.38
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

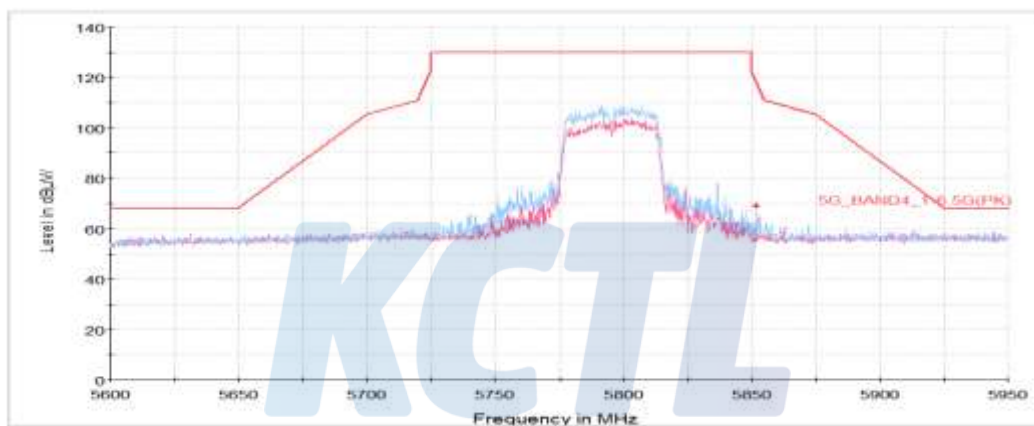
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

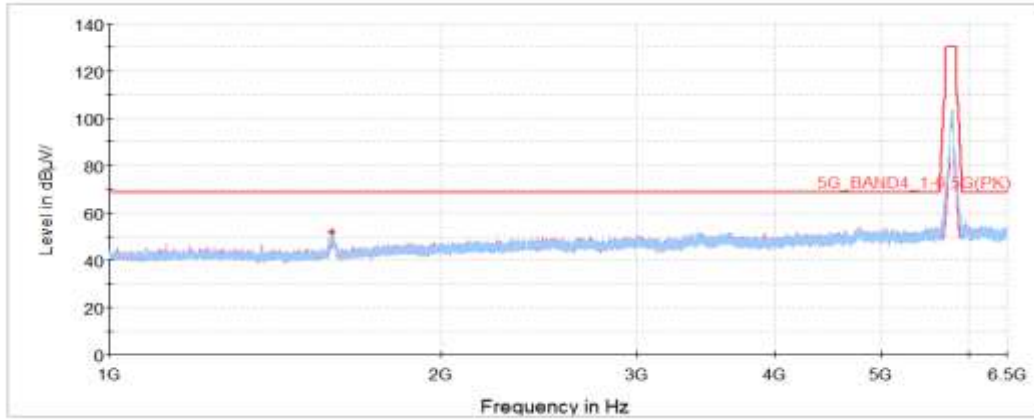
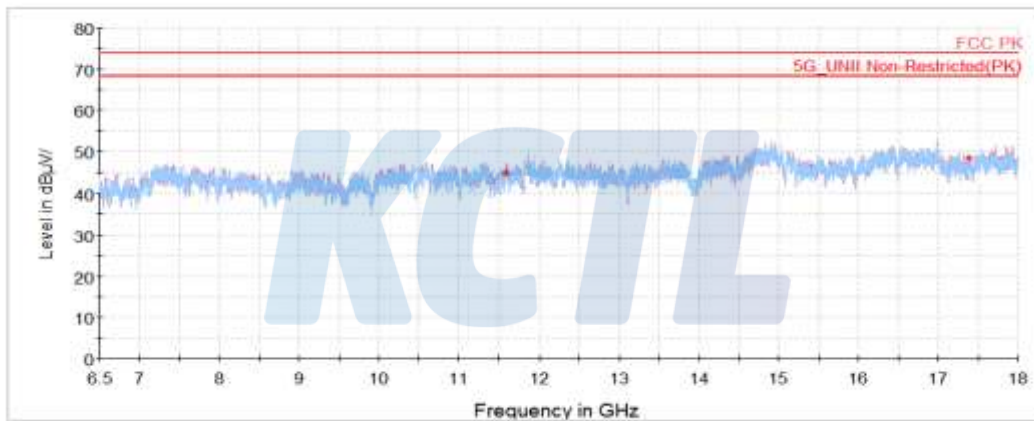
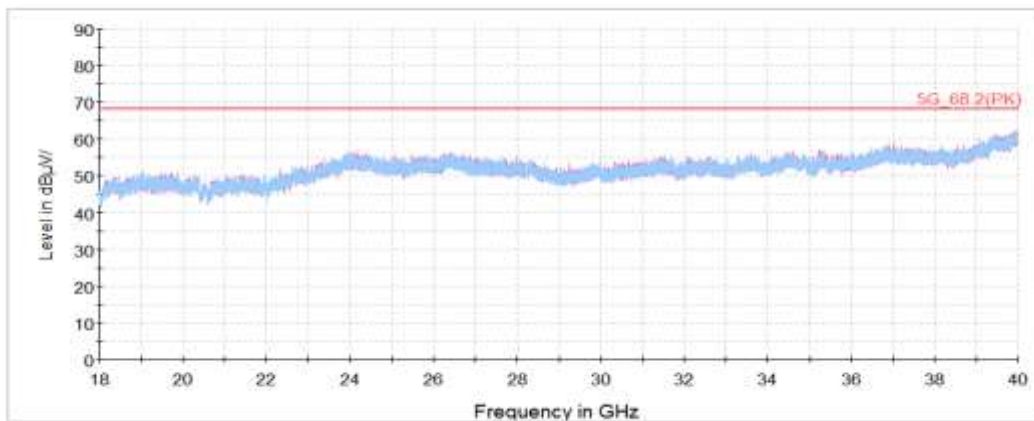
Report No.:
KR20-SRF0030-D

Page (1020) of (1046)

**Highest Channel (5 795 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 851.69	H	60.43	35.22	-26.67	-	68.98	118.35	49.38
11 590.91 ¹⁾	V	56.84	38.11	-50.11	-	44.84	74.00	29.16
17 385.83	H	55.43	41.15	-48.24	-	48.34	68.20	19.86
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

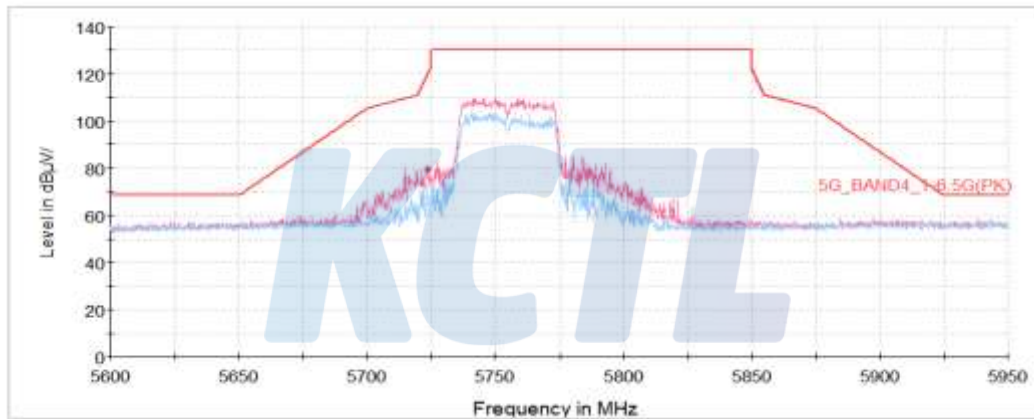
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

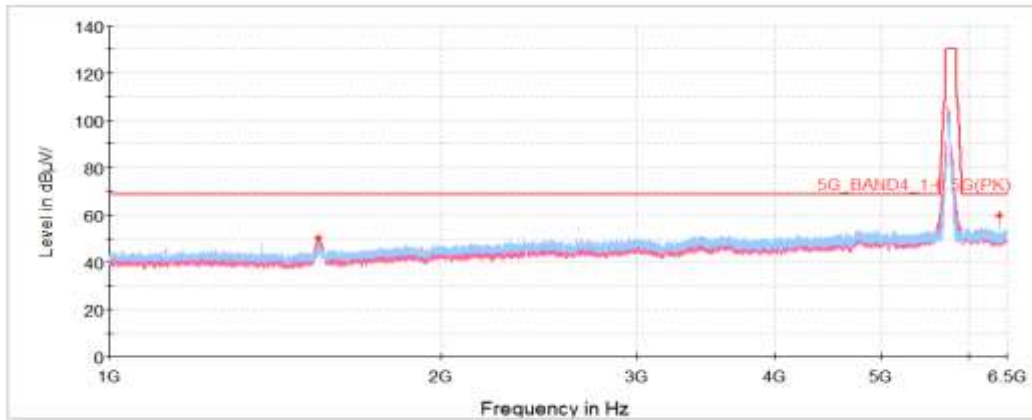
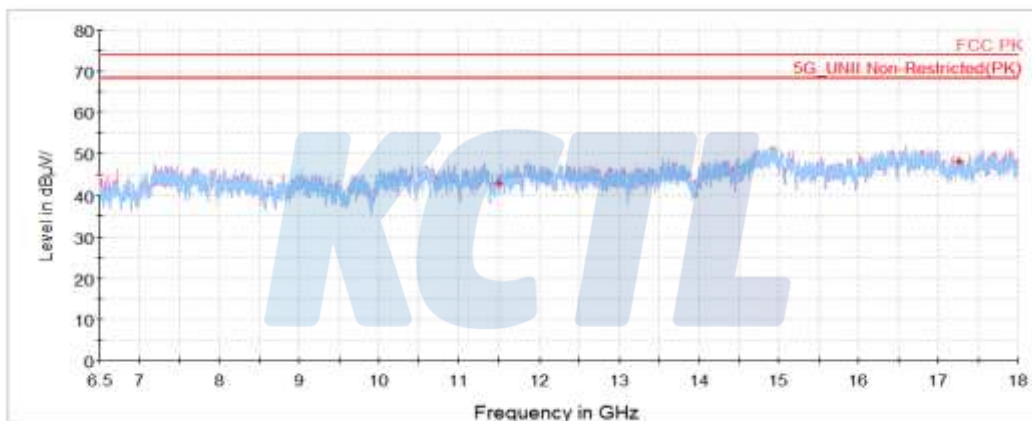
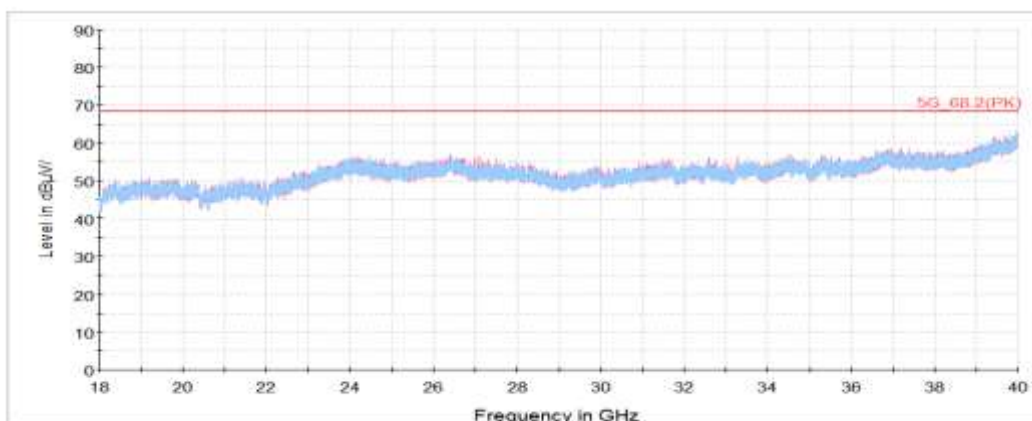
Report No.:
KR20-SRF0030-D

Page (1022) of (1046)

**802.11ac VHT40 UNII 3 ANT 2****Lowest Channel (5 755 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μV))	(dB)	(dB)	(dB)	(dB($\mu V/m$))	(dB($\mu V/m$))	(dB)
Peak data								
5 723.98	V	70.34	35.07	-25.90	-	79.51	119.88	40.37
11 510.77 ¹⁾	H	54.87	38.01	-50.06	-	42.82	74.00	31.18
17 265.44	V	54.65	41.19	-47.82	-	48.02	68.20	20.18
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

KCTL Inc.

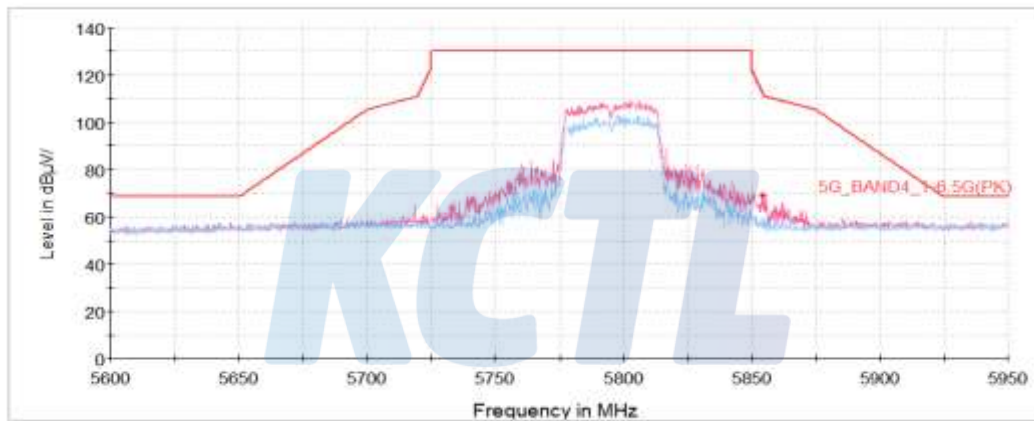
65, Sinwon-ro, Yeongtong-gu,
Suwon-si, Gyeonggi-do, 16677, Korea
TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

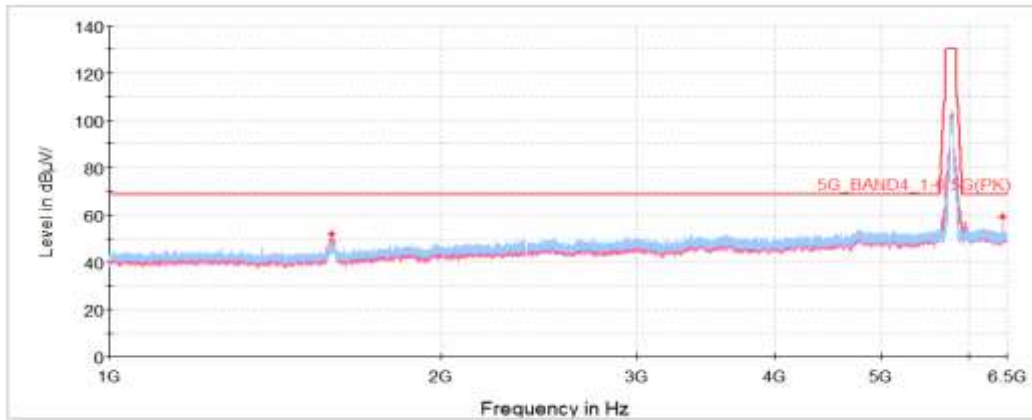
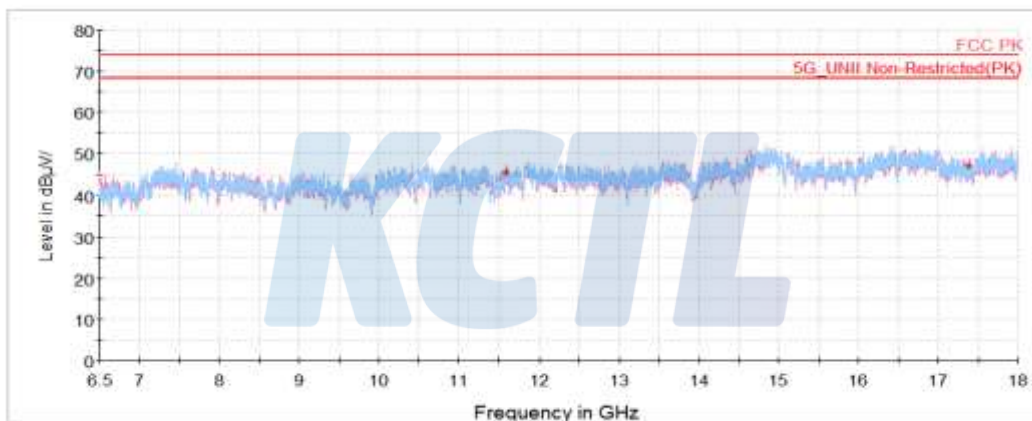
Report No.:
KR20-SRF0030-D

Page (1024) of (1046)

**Highest Channel (5 795 MHz)**

Frequency	Pol.	Reading	Antenna Factor	Amp. + Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
5 854.44	V	60.31	35.23	-26.65	-	68.89	112.08	43.19
6 439.16	V	68.60	35.40	-44.77	-	59.23	68.20	8.97
11 589.47 ¹⁾	V	57.46	38.11	-50.11	-	45.46	74.00	28.54
17 386.19	H	54.11	41.15	-48.24	-	47.02	68.20	21.18
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for Band-edge

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**