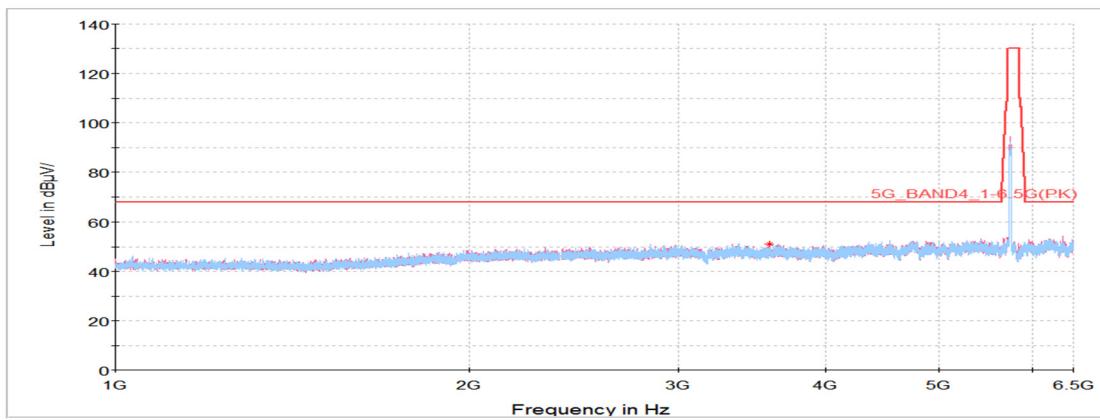
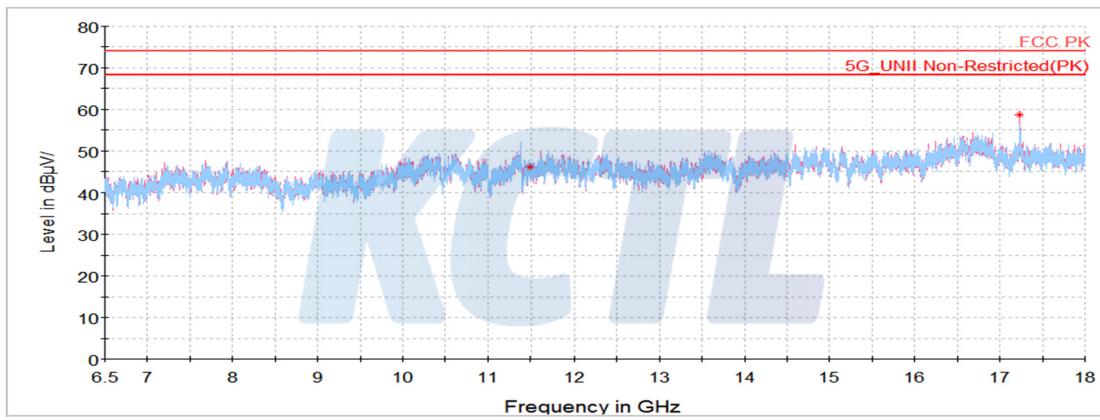
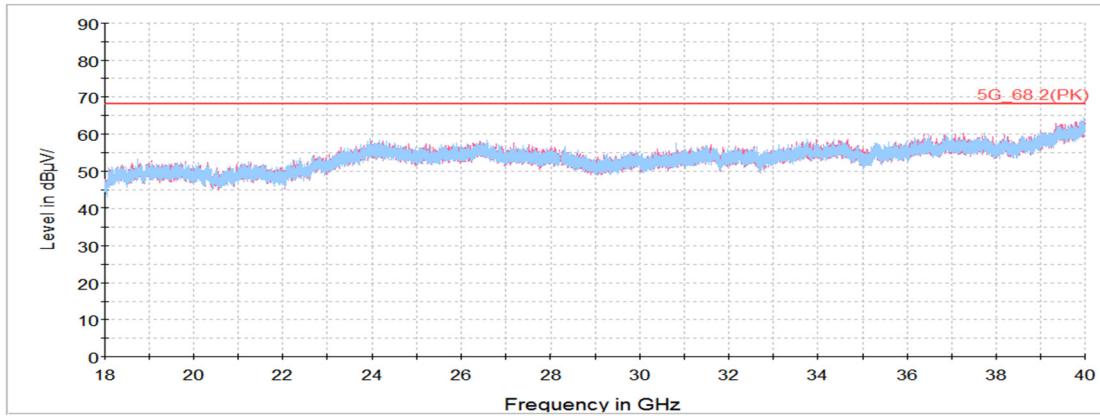


Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

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

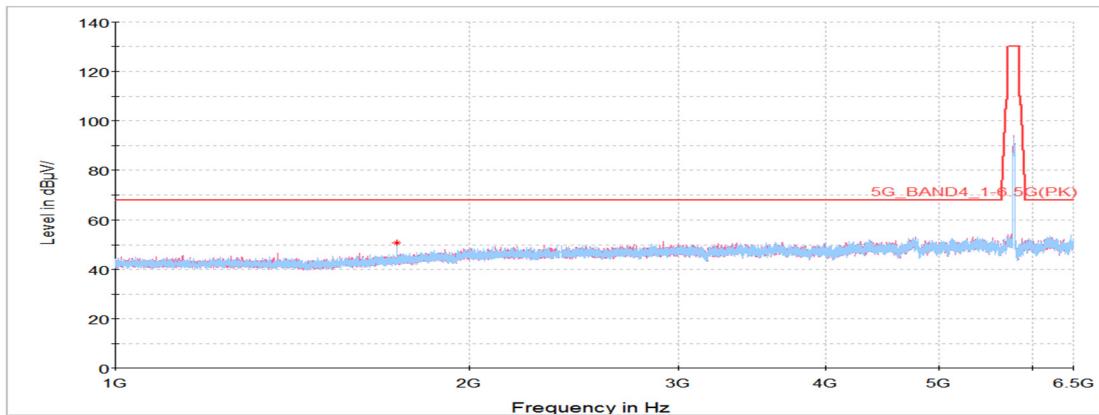
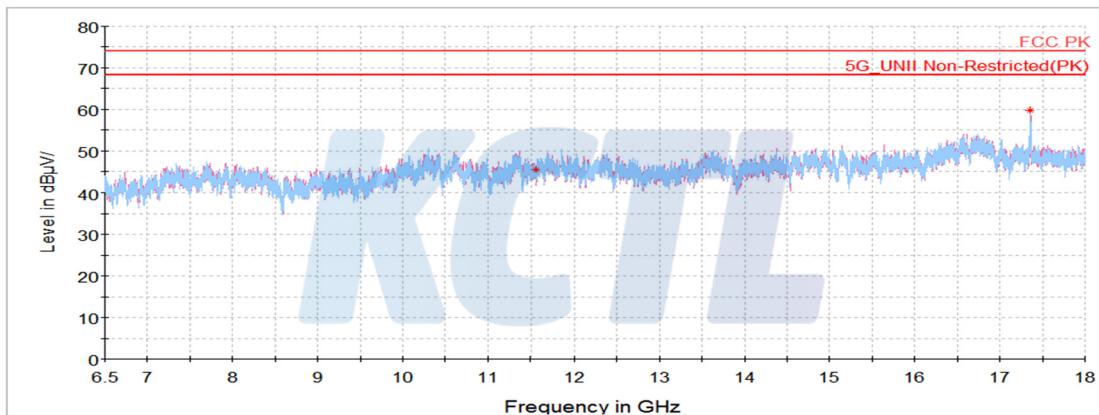
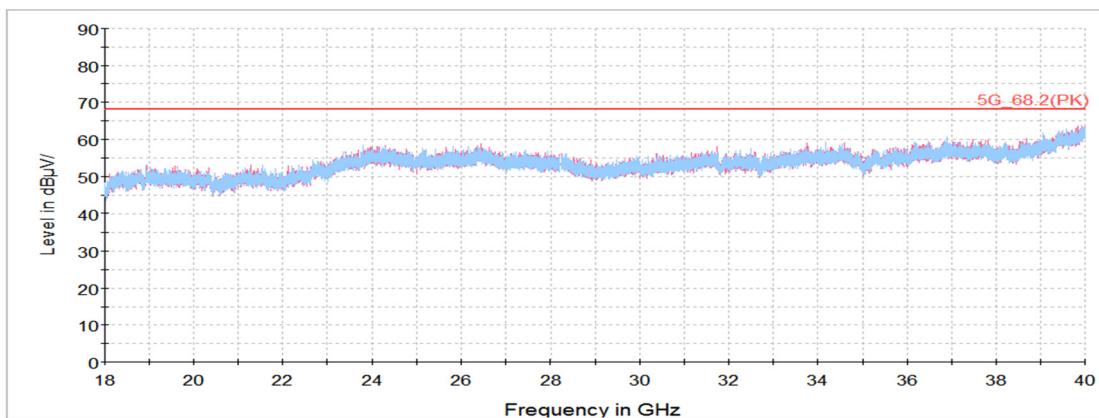
Report No.:
KR19-SRF0192-B

Page (100) of (112)

**Middle Channel (5 785 MHz)**

Frequency (MHz)	Pol.	Reading (dB(µV))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF	Result (dB(µV/m))	Limit (dB(µV/m))	Margin (dB)
Peak data								
1 733.91	H	70.67	29.73	-49.73	-	50.67	68.20	17.53
11 570.42 ¹⁾	H	55.63	38.28	-48.41	-	45.50	74.00	28.50
17 360.67	H	64.88	41.84	-46.94	-	59.78	68.20	8.42
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**

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65, Sinwon-ro, Yeongtong-gu,
 Suwon-si, Gyeonggi-do, 16677, Korea
 TEL: 82-31-285-0894 FAX: 82-505-299-8311
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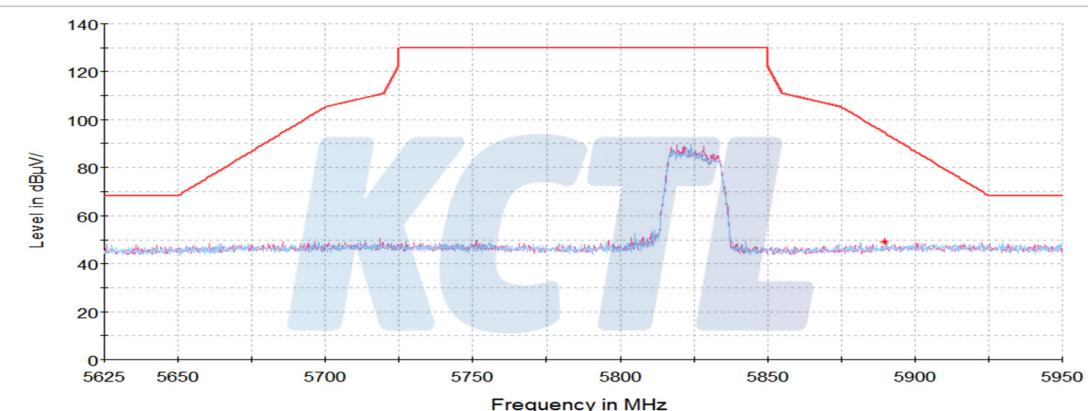
Report No.:
 KR19-SRF0192-B

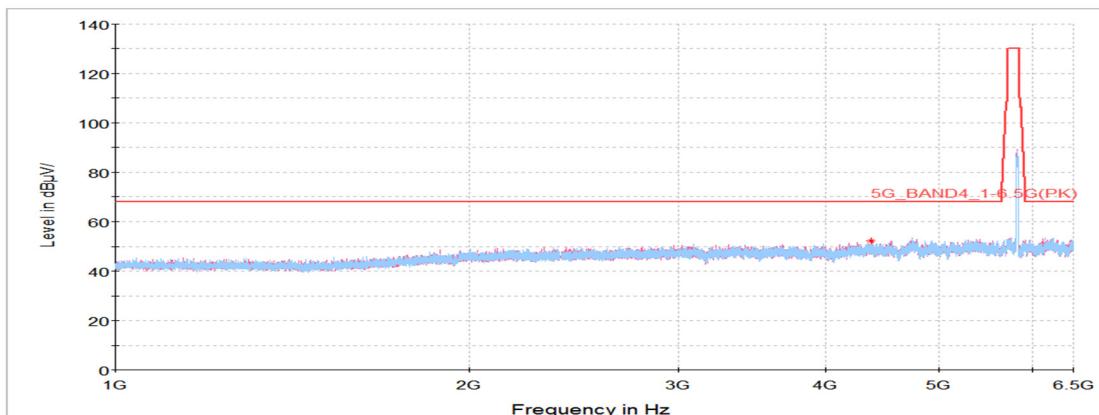
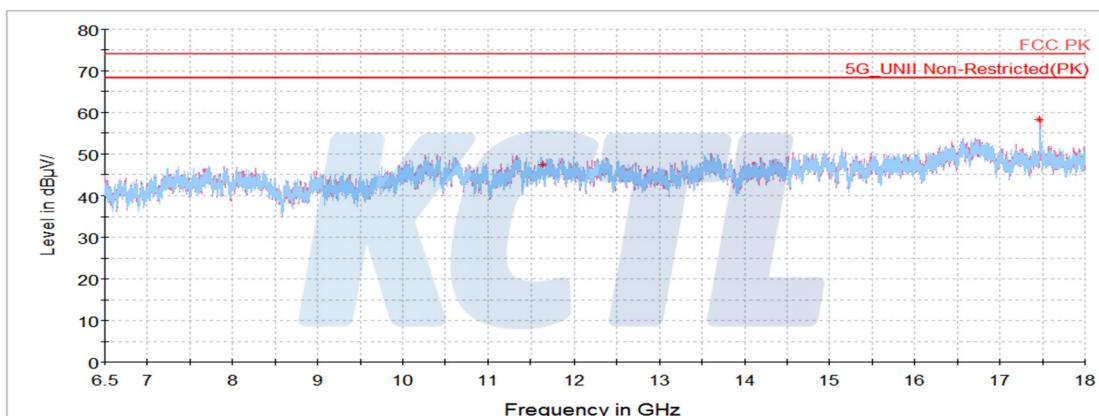
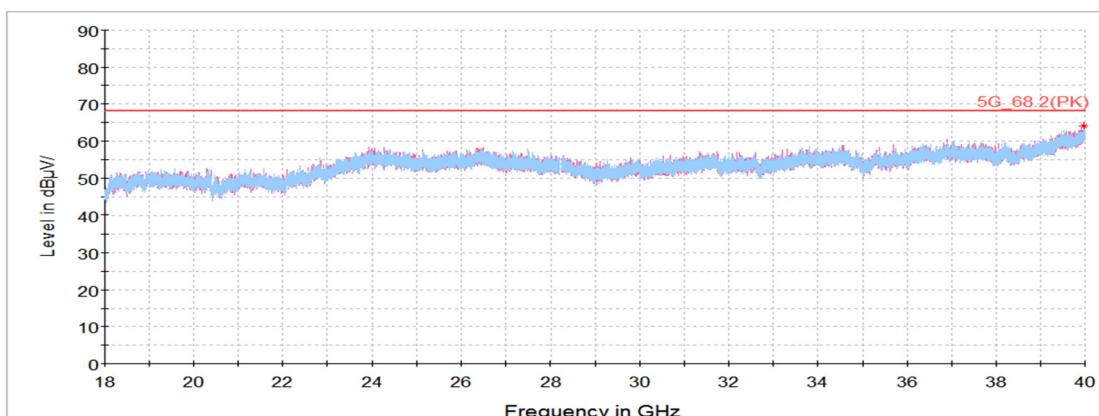
Page (102) of (112)

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Highest Channel (5 825 MHz)

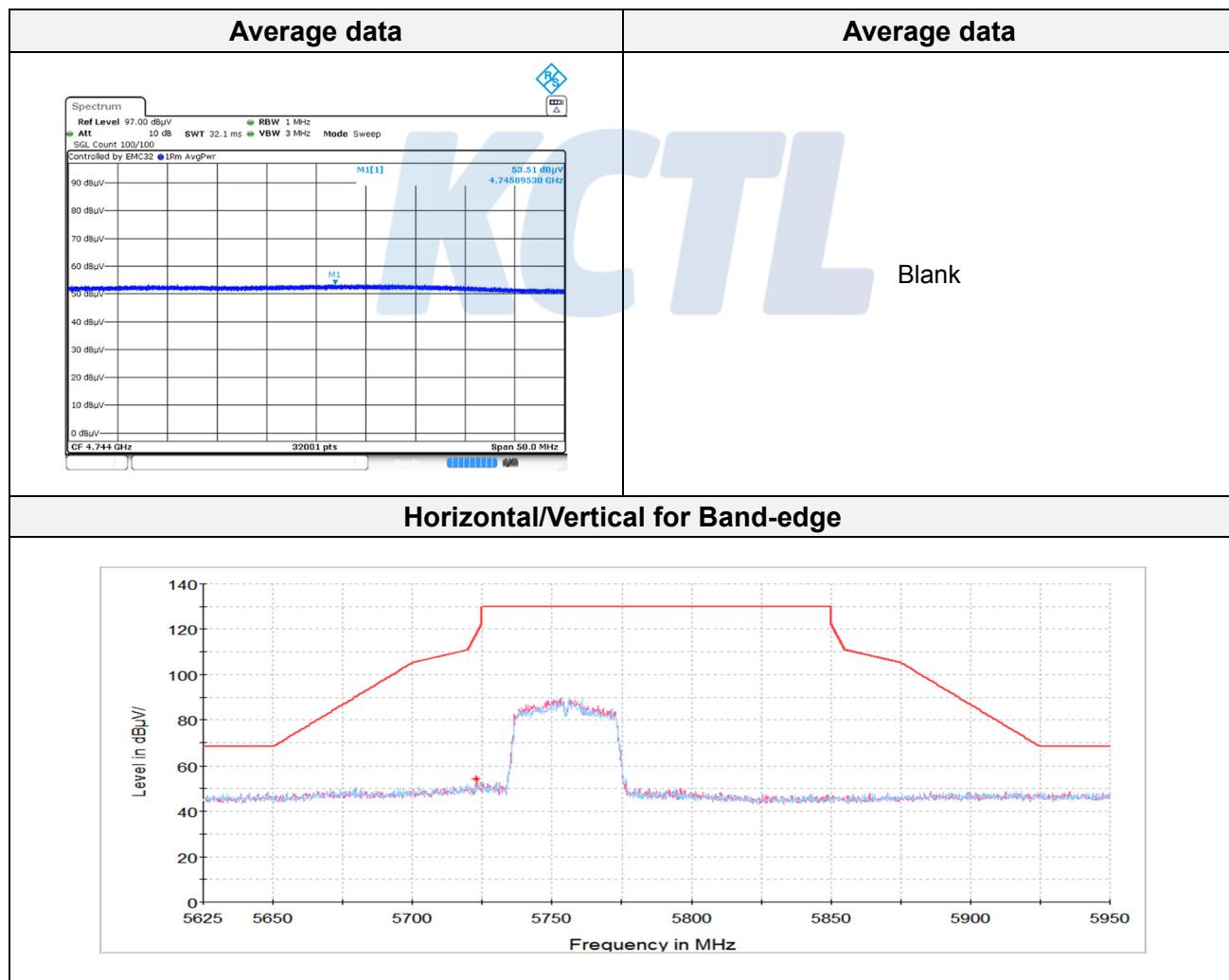
Frequency	Pol.	Reading	Amp. + Cable	Antenna Factor	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
4 369.65 ¹⁾	V	64.30	33.37	-45.39	-	52.28	74.00	21.72
5 889.84	H	40.84	34.97	-26.44	-	49.37	94.22	44.85
11 650.20	V	57.67	38.38	-48.74	-	47.31	74.00	26.69
17 465.61	H	63.58	41.89	-47.19	-	58.28	68.20	9.92
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

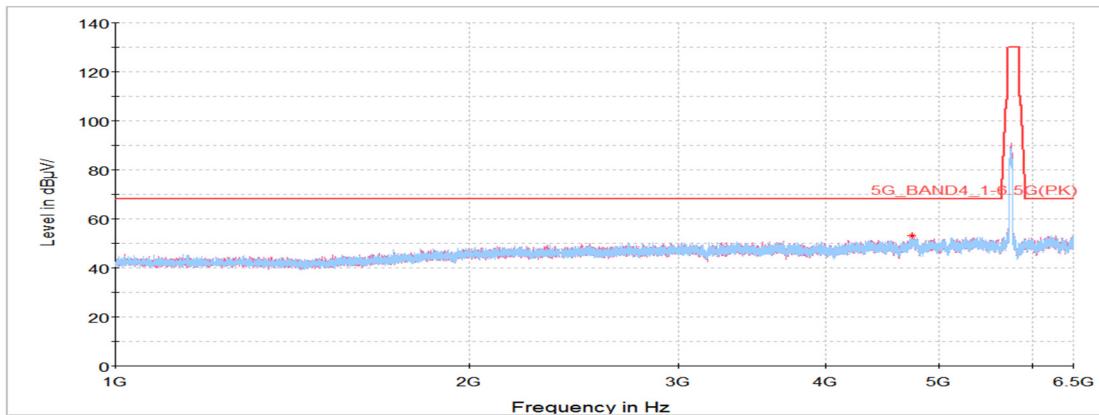
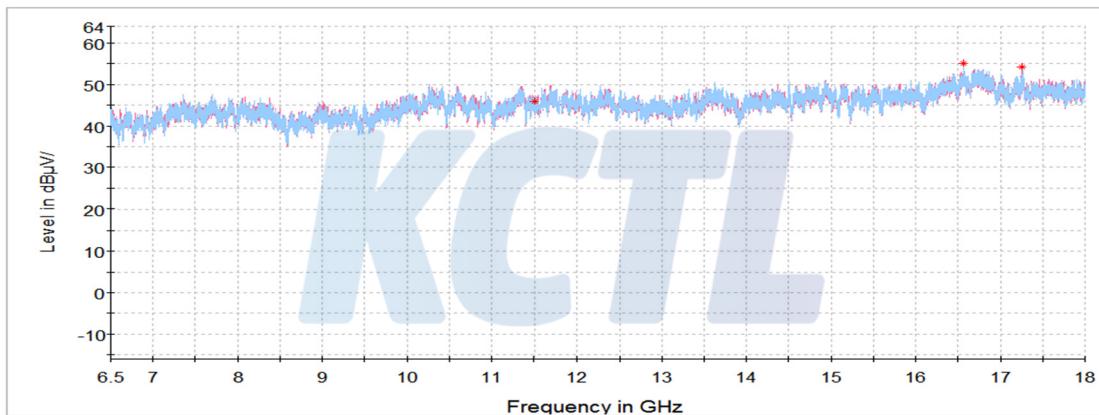
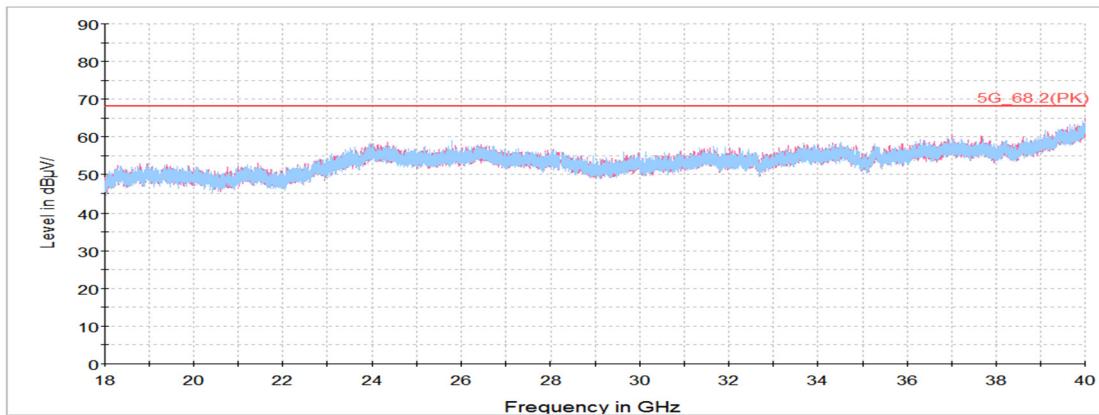
Horizontal/Vertical for Band-edge

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

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

Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ N))	(dB)	(dB)	(dB)	(dB(μ N/m))	(dB(μ N/m))	(dB)
Peak data								
4 745.90 ¹⁾	V	63.77	33.75	-44.29	-	53.23	74.00	20.77
5 719.00	V	43.85	34.76	-25.83	-	52.78	110.52	57.74
11 510.77 ¹⁾	V	55.75	38.21	-48.16	-	45.80	74.00	28.20
16 568.97	V	58.85	41.60	-45.43	-	55.02	68.20	13.18
17 258.61	V	59.10	41.80	-46.7	-	54.20	68.20	14.00
Average Data								
4 745.90 ¹⁾	V	53.51	33.75	-44.29	0.44	43.41	54.00	10.59



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.

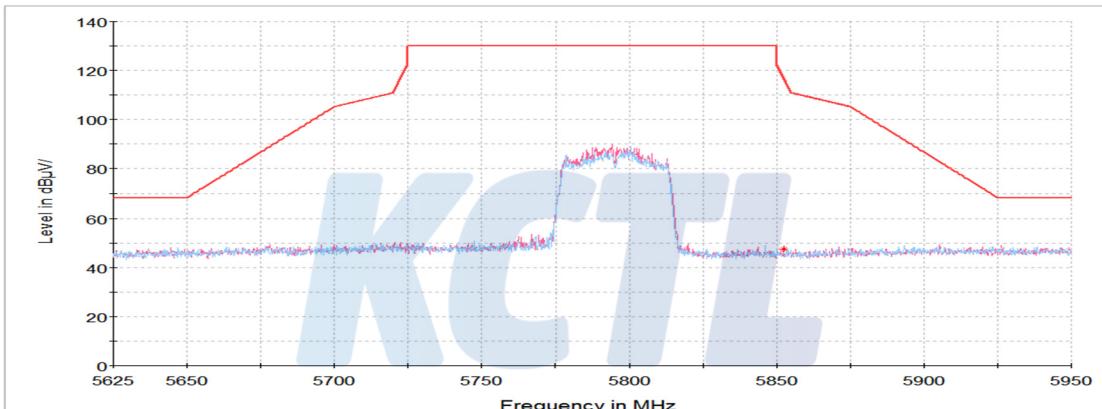
65, Sinwon-ro, Yeongtong-gu,
 Suwon-si, Gyeonggi-do, 16677, Korea
 TEL: 82-31-285-0894 FAX: 82-505-299-8311
www.kctl.co.kr

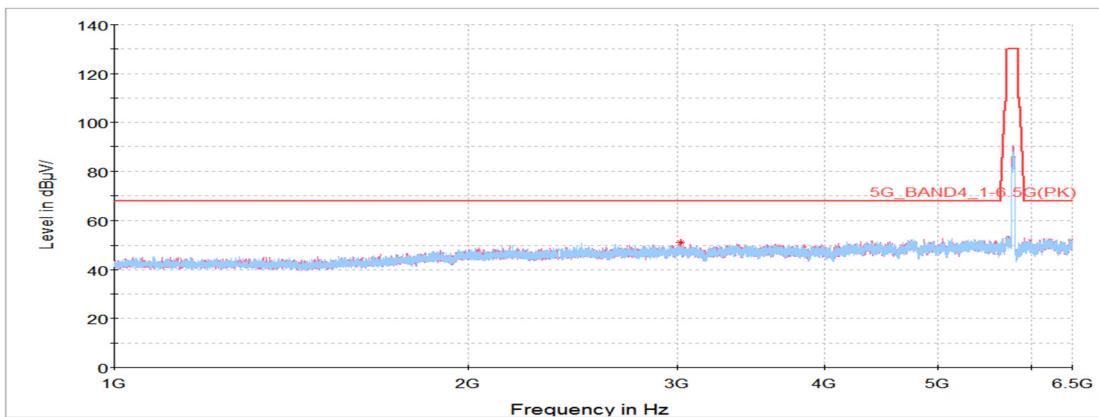
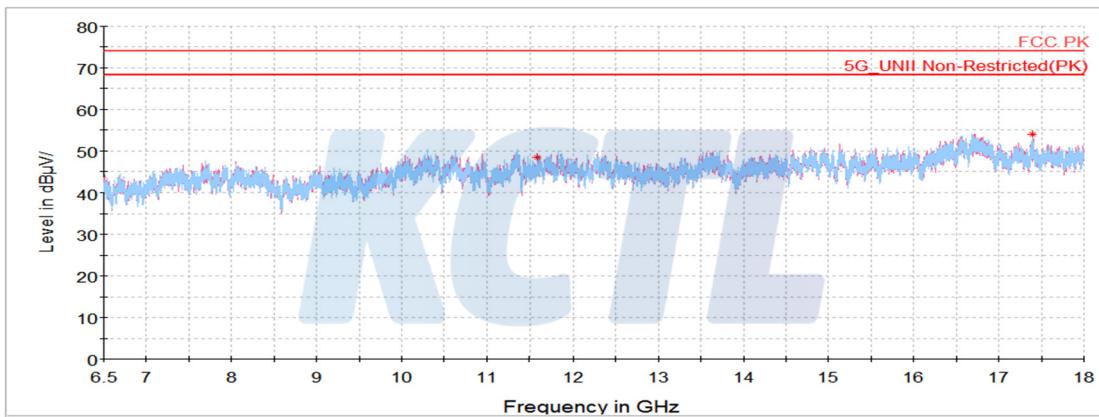
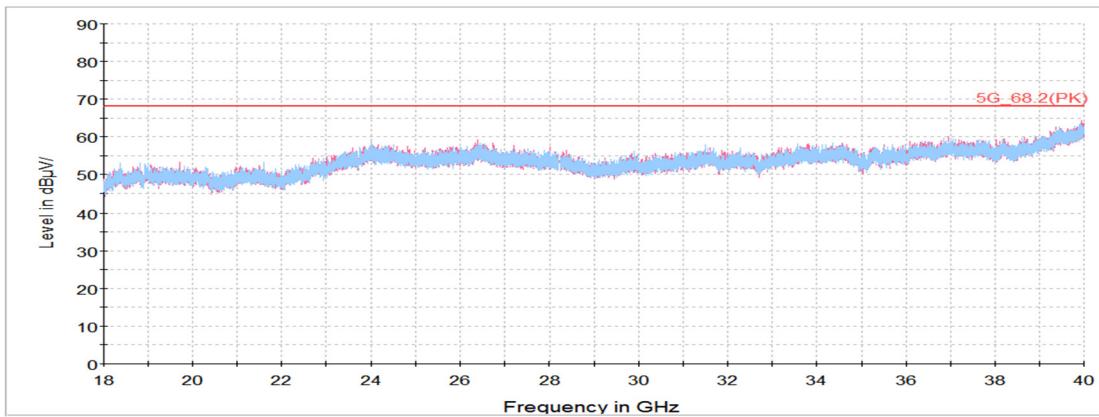
Report No.:
 KR19-SRF0192-B

Page (106) of (112)

**Highest Channel (5 795 MHz)**

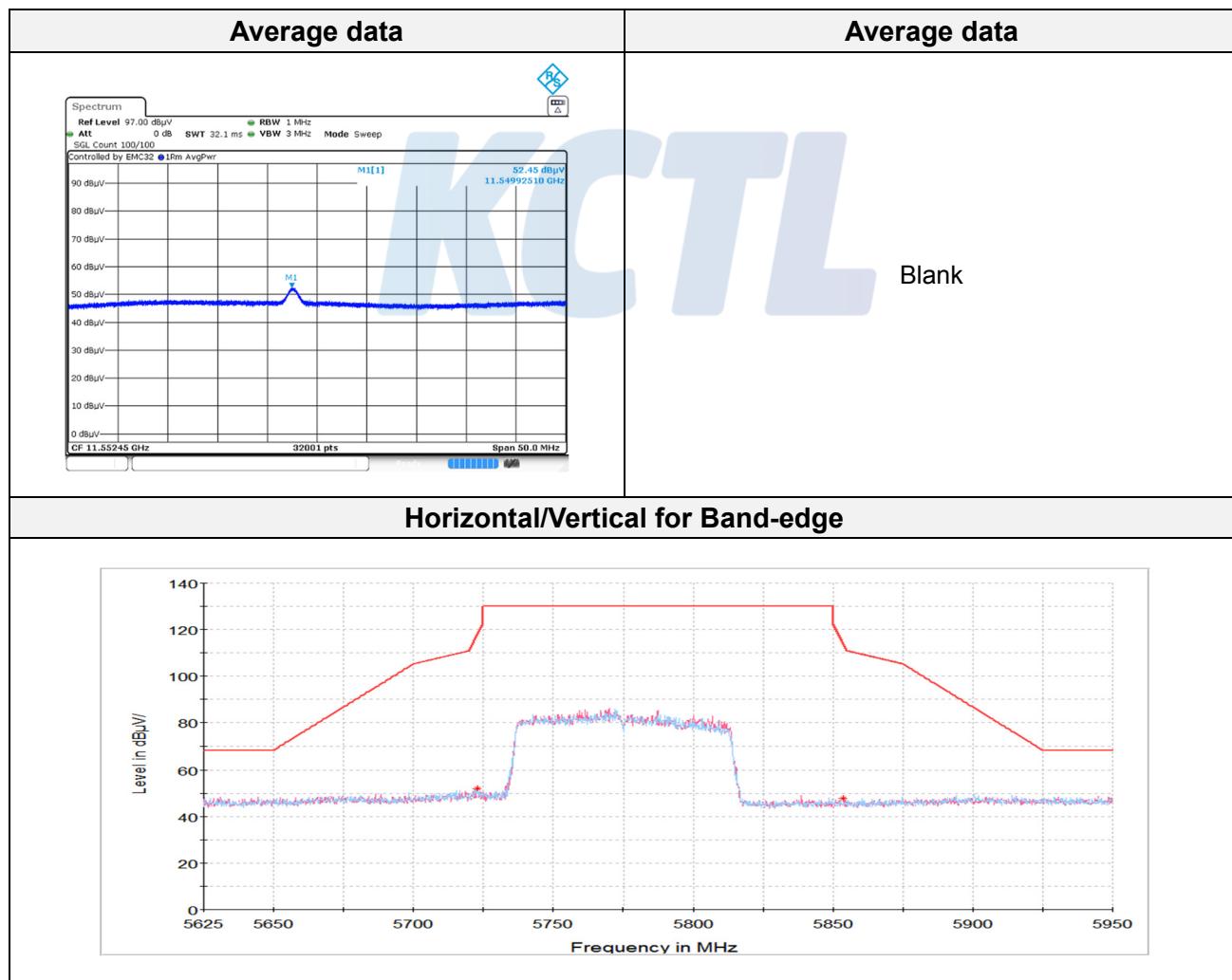
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ V))	(dB)	(dB)	(dB)	(dB(μ V/m))	(dB(μ V/m))	(dB)
Peak data								
3 020.56	V	65.79	32.89	-47.49	-	51.19	68.20	17.01
5 852.20	V	39.27	34.92	-26.67	-	47.52	117.18	69.66
11 592.70 ¹⁾	H	58.51	38.31	-48.50	-	48.32	74.00	25.68
17 396.61	H	59.23	41.86	-47.02	-	54.07	68.20	14.13
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

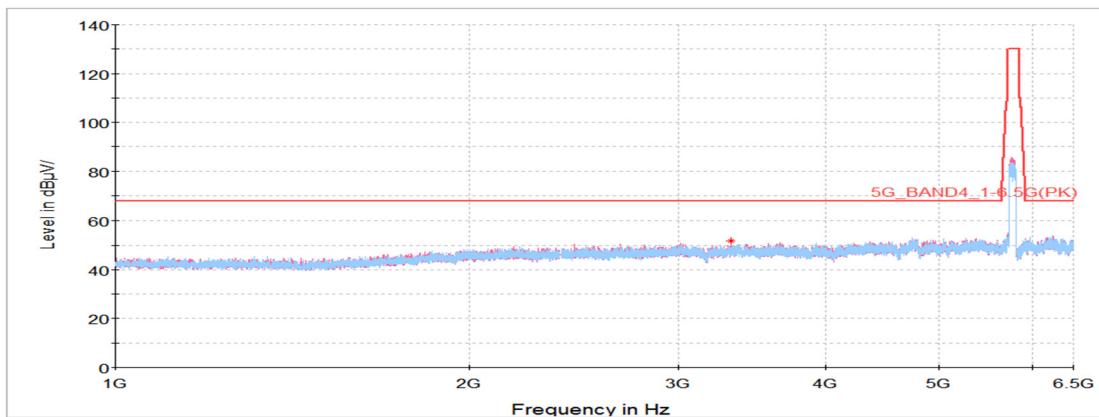
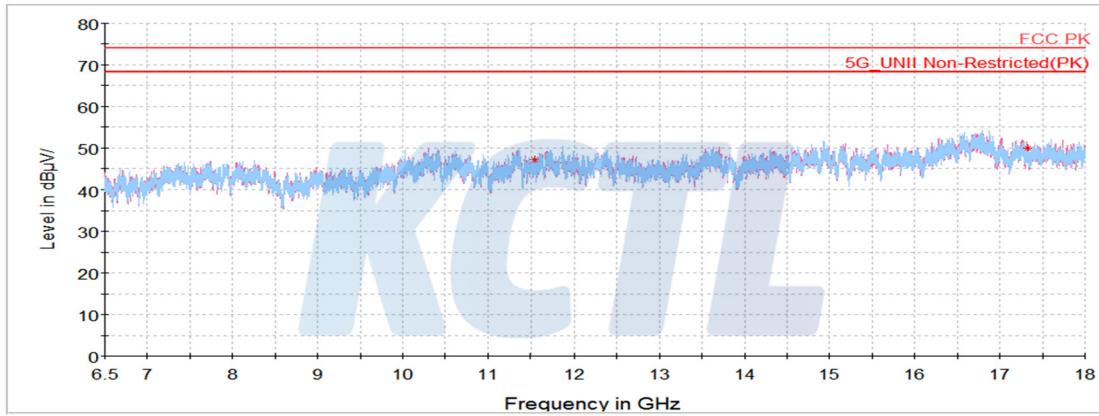
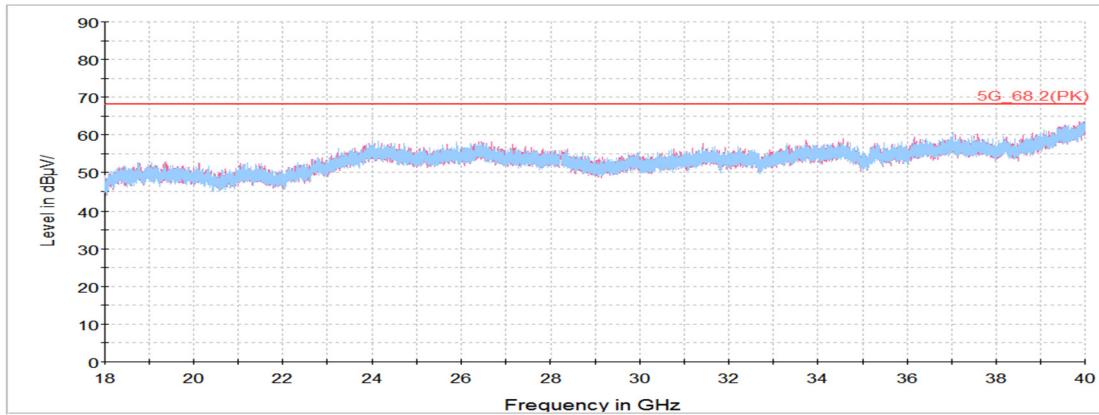
Horizontal/Vertical for Band-edge

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

802.11ac VHT80 UNII-3**Lowest Channel (5 775 MHz)**

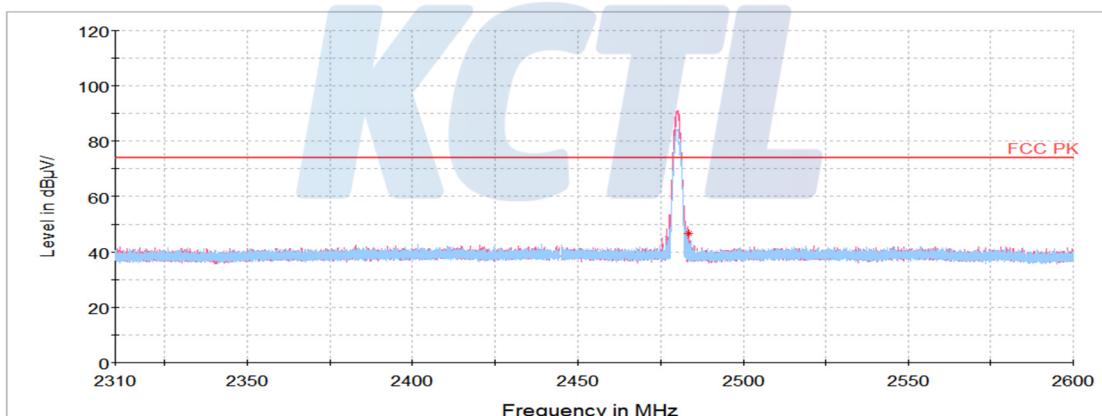
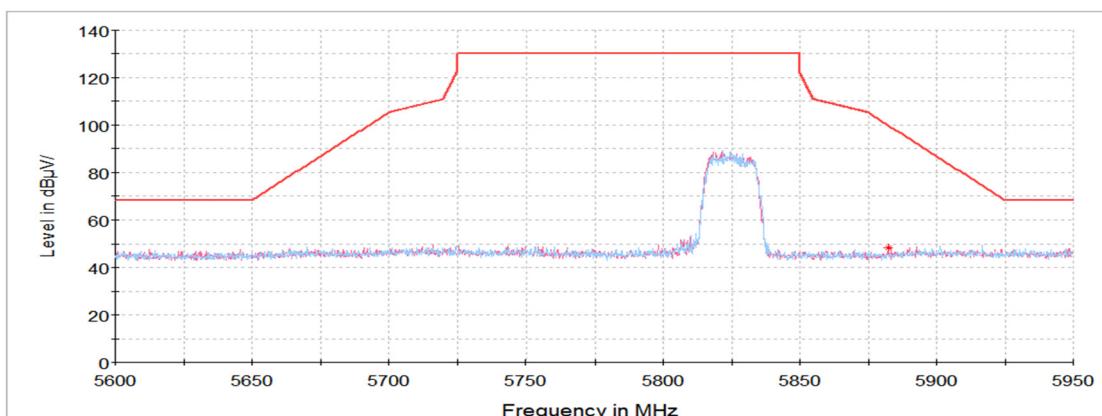
Frequency	Pol.	Reading	Ant. Factor	Amp.+Cable	DCCF	Result	Limit	Margin
(MHz)	(V/H)	(dB(μ N))	(dB)	(dB)	(dB)	(dB(μ N/m))	(dB(μ N/m))	(dB)
Peak data								
3 323.75	V	65.91	32.71	-46.99	-	51.63	68.20	16.57
5 723.13	V	43.02	34.77	-25.89	-	51.90	117.93	66.03
5 853.58	V	39.61	34.92	-26.66	-	47.87	114.04	66.17
11 549.33 ¹⁾	H	59.26	38.06	-50.08	-	47.24	74.00	26.76
17 325.45	H	54.88	41.83	-46.85	-	49.86	68.20	18.34
Average Data								
11 549.33 ¹⁾	H	52.45	38.06	-50.08	0.86	41.29	54.00	12.71

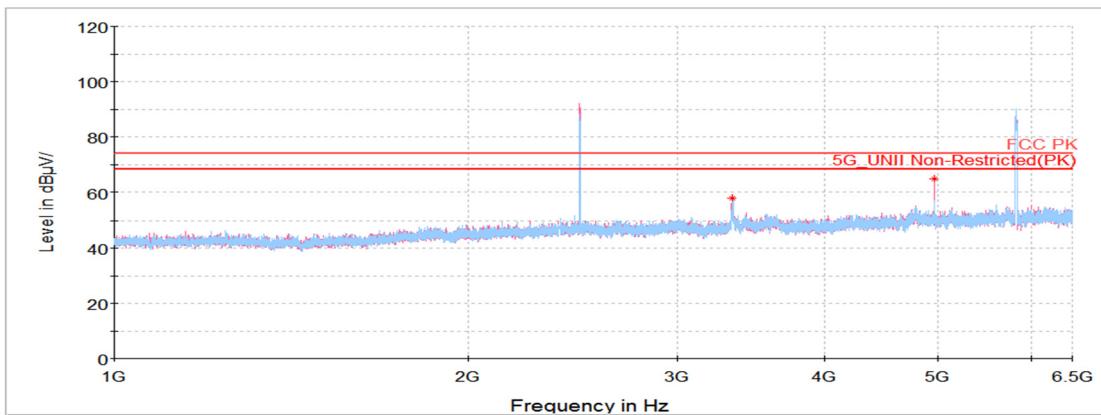
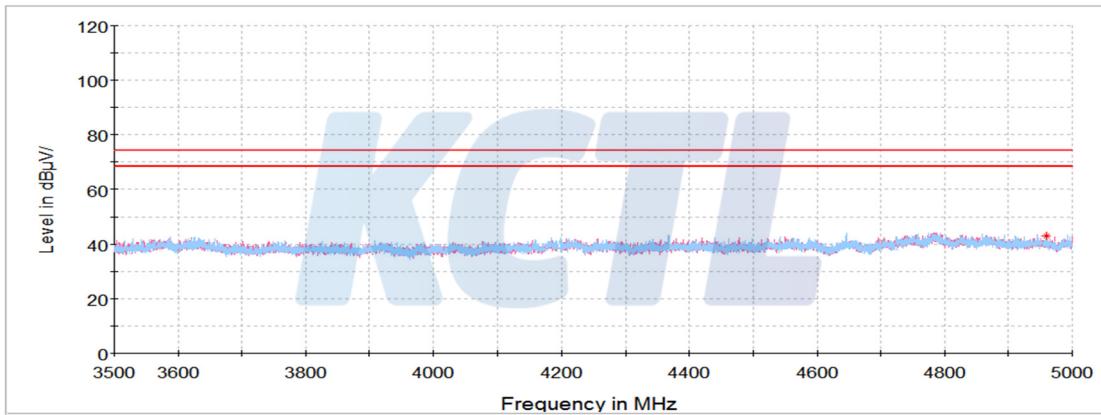
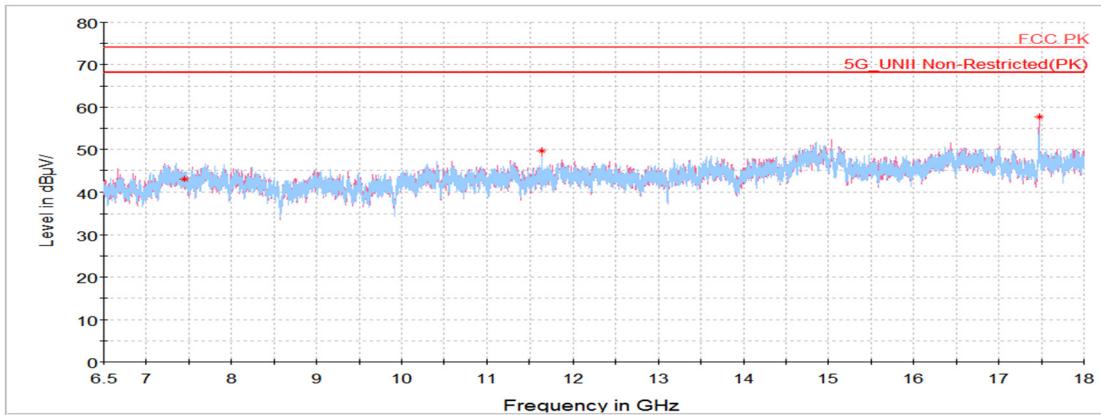


Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 6.5 GHz ~ 18 GHz****Horizontal/Vertical for 18 GHz ~ 40 GHz**

802.11n HT20 / UNII-3 Highest(5 825 MHz)+BT,GFSK Highest(2 480 MHz)

Frequency (MHz)	Pol. (V/H)	Reading (dB(μ V))	Ant. Factor (dB)	Amp.+Cable (dB)	DCCF (dB)	Result (dB(μ V/m))	Limit (dB(μ V/m))	Margin (dB)
Peak data								
2 483.52	V	43.79	32.07	-29.21	-	46.65	74.00	27.35
3 343.52	V	71.97	32.57	-46.71	-	57.83	74.00	16.17
4 960.00	V	63.83	33.98	-54.80		43.01	74.00	30.99
5 882.45	V	39.80	35.26	-26.48	-	48.58	99.69	51.11
7 440.13	H	58.27	35.40	-50.63	-	43.04	74.00	30.96
11 650.56	V	61.46	38.18	-49.98		49.66	74.00	24.34
17 475.31	V	65.15	41.11	-48.55	-	57.71	68.20	10.49
Average Data								
No spurious emissions were detected within 20 dB of the limit.								

Horizontal/Vertical for BT Band-edge**Horizontal/Vertical for 5G WIFI Band-edge**

Horizontal/Vertical for 1 GHz ~ 6.5 GHz**Horizontal/Vertical for 3.5 GHz ~ 5 GHz (BT Harmonic)****Horizontal/Vertical for 6.5 GHz ~ 18 GHz (BT, 5G WIFI Harmonic)**

8. Measurement equipment

Equipment Name	Manufacturer	Model No.	Serial No.	Next Cal. Date
Spectrum Analyzer	R&S	FSW50	101013	20.05.30
Spectrum Analyzer	R&S	FSV40	100988	20.01.04
ATTENUATOR	R&S	DNF Dämpfungsglied 10 dB in N-50 Ohm	31212	20.05.13
ATTENUATOR	API Inmet	40AH2W-10	11	20.05.15
EMI TEST RECEIVER	R&S	ESCI7	100732	20.08.22
Bi-Log Antenna	SCHWARZBECK	VULB 9168	583	20.05.04
Amplifier	SONOMA INSTRUMENT	310N	284608	20.08.22
COAXIAL FIXED ATTENUATOR	Agilent	8491B-003	2708A18758	20.05.04
Horn antenna	ETS.lindgren	3116	00086632	20.02.15
Horn antenna	ETS.lindgren	3117	155787	20.10.24
Attenuator	API Inmet	40AH2W-10	12	20.05.15
Broadband PreAmplifier	SCHWARZBECK	BBV9718	216	20.07.30
AMPLIFIER	L-3 Narda-MITEQ	AMF-7D-01001800 -22-10P	2031196	20.02.21
AMPLIFIER	L-3 Narda-MITEQ	JS44-18004000-33 -8P	2000997	20.08.01
LOOP Antenna	R&S	HFH2-Z2	100355	20.08.24
Antenna Mast	Innco Systems	MA4640-XP-ET	-	-
Turn Table	Innco Systems	DT2000	79	-
Antenna Mast	Innco Systems	MA4000-EP	303	-
Turn Table	Innco Systems	DT2000	79	-
Highpass Filter	WT	WT-A1699-HS	WT160411002	20.05.14
Vector Signal Generator	R&S	SMBV100A	257566	20.01.04
Signal Generator	R&S	SMR40	100007	20.05.13
Cable Assembly	RadiAll	2301761768000PJ	1724.659	-
Cable Assembly	gigalane	RG-400	-	-
Cable Assembly	HUER+SUHNER	SUCOFLEX 104	MY4342/4	-

End of test report