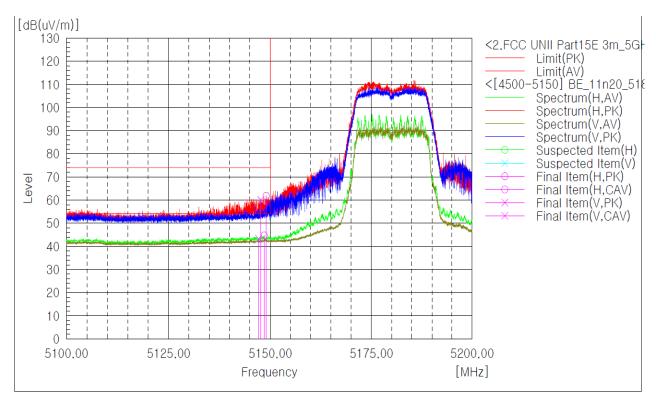


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Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency:	5 180 MHz
Channel:	36



Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 149.01	Н	61.8		74.0		12.2	
5 148.53	Н		44.7		54.0		9.3
5 147.71	V	60.0		74.0		14.0	
5 147.13	V		43.3		54.0		10.7

Radiated Restricted Band Edge Plot

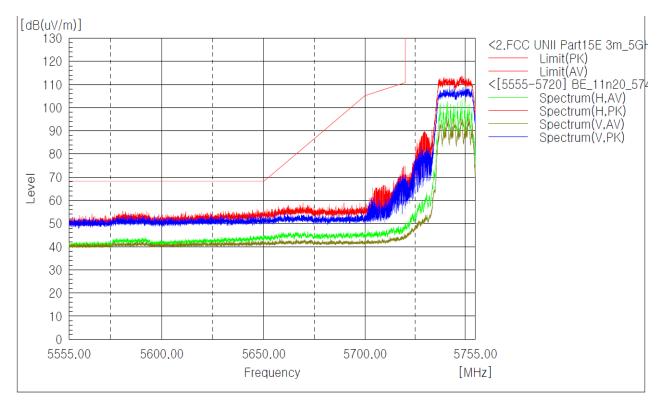


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Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency:	5 745 MHz
Channel:	149



Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]	
The emissions above 1 GHz were 20 dB lower than the limit.								

Radiated Restricted Band Edge Plot

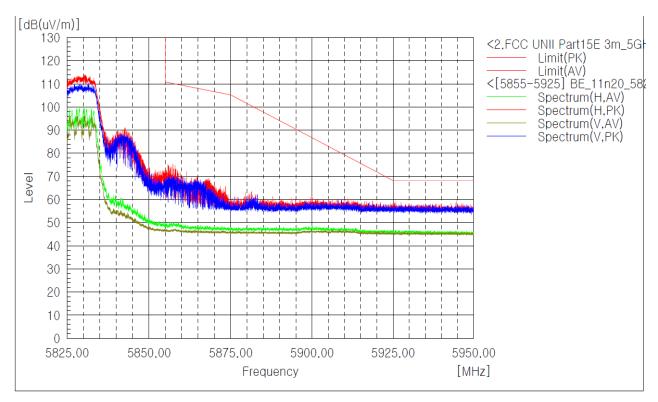


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Worst Case Mode :	802.11n_HT20
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency:	5 825 MHz
Channel:	165



Frequency	(P)	Level PK	Level AV	Limit PK	Limit AV	Margin	Margin
[MHz]		[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	PK [dB]	AV [dB]

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot



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Test mode: Transmitter, 802.11ac_VHT20

The requirements are:

Test Data

Ch.36(5 180 MHz)

	333(3 ±33 :							
	Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
	10 359.90	Н	62.3		74.0		11.7	
	10 360.96	Н		47.3		54.0		6.7
	10 357.76	V	56.0		74.0		18.0	
٠	10 360.69	V		41.5		54.0		12.5

Ch.40(5 200 MHz)

Frequency	(D)	Level PK	Level AV	Limit PK	Limit AV	Margin	Margin
[MHz]	(P)	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	PK [dB]	AV [dB]
6 933.42	Н	56.9		74.0		17.1	
6 933.43	Н		43.2		54.0		10.8
6 933.36	V	52.1		74.0		21.9	
6 933.40	V		40.6		54.0		13.4
10 399.32	Н	59.7		74.0		14.3	
10 398.83	Н		43.8		54.0		10.2
10 407.16	V	54.1		74.0		19.9	
10 429.44	V		41.5		54.0		12.5

Ch.48(5 240 MHz)

Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 479.16	Н	62.8		74.0		11.2	
10 479.10	Н		48.4		54.0		5.6
10 480.55	V	55.4		74.0		18.6	
10 476.15	V		42.0		54.0		12.0



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Ch.149(5 745 MHz)

[MHz] (P) [dB(uV/m)] [dB(uV/m)] [dB(uV/m)] [dB(uV/m)] PK [dB] AV [dB]	Frequency	(P)	Level PK	Level AV	Limit PK	Limit AV	Margin	Margin
	[MHz]		[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	PK [dB]	AV [dB]

The emissions above 1 GHz were 20 dB lower than the limit.

Ch.157(5 785 MHz)

Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 570.66	Н	64.3		74.0		9.7	
11 571.42	Н		46.5		54.0		7.5
11 568.87	V	61.2		74.0		12.8	
11 569.84	V		43.1		54.0		10.9

Ch.165(5 825 MHz)

Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
11 650.88	Н	64.9		74.0		9.1	
11 649.92	Н		46.8		54.0		7.2
11 649.89	V	63.5		74.0		10.5	
11 652.12	V		43.4		54.0		10.6

Remarks

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
- 2. Correction factor = Antenna factor + Cable loss Amp Gain

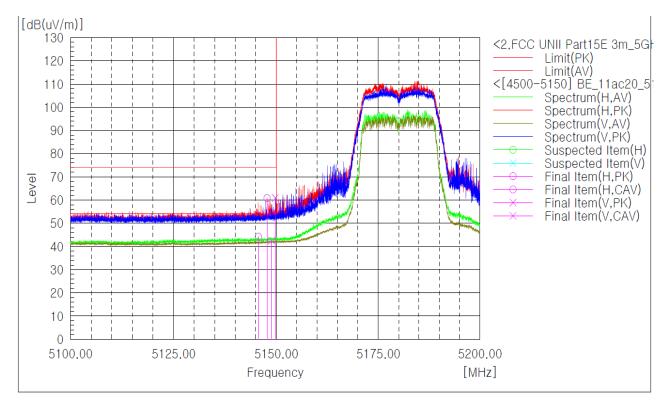


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Report No.: CTK-2020-00483 Page (156) / (176) Pages

Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency:	5 180 MHz
Channel:	36



Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 147.78	Н	60.8		74.0		13.2	
5 145.63	Н		44.2		54.0		9.8
5 149.81	V	60.9		74.0		13.1	
5 148.83	V		42.6		54.0		11.4

Radiated Restricted Band Edge Plot

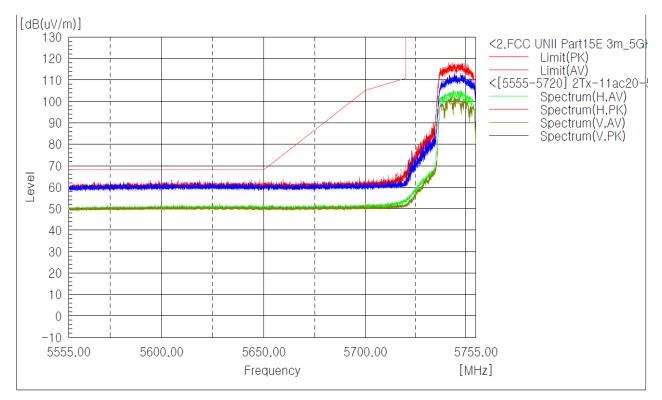


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Report No.: CTK-2020-00483 Page (157) / (176) Pages

Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate:	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency:	5 745 MHz
Channel:	149



Frequency	(D)	Level PK	Level AV	Limit PK	Limit AV	Margin	Margin
[MHz]	(P)	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	PK [dB]	AV [dB]

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot

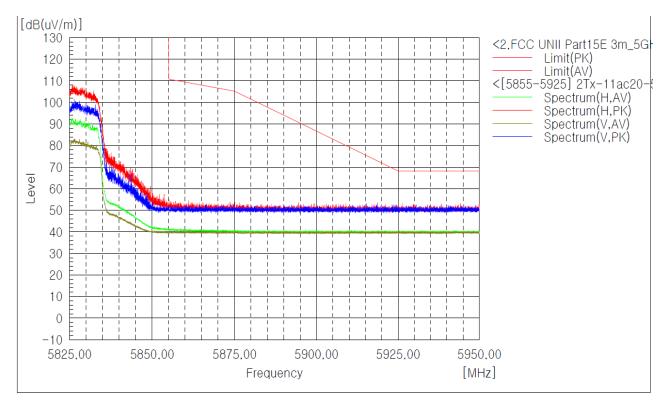


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Report No.: CTK-2020-00483 Page (158) / (176) Pages

Worst Case Mode :	802.11ac_VHT20
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency:	5 825 MHz
Channel:	165



Frequency	(P)	Level PK	Level AV	Limit PK	Limit AV	Margin	Margin
[MHz]	(F)	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	PK [dB]	AV [dB]

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot



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Report No.: CTK-2020-00483 Page (159) / (176) Pages

Test mode: Transmitter, 802.11n_HT40

The requirements are:

Test Data

Ch.38(5 190 MHz)

Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 380.68	Н	61.1		74.0		12.9	
10 379.01	Н		45.4		54.0		8.6
10 380.60	V	55.6		74.0		18.4	
10 381.16	V		41.2		54.0		12.8

Ch.46(5 230 MHz)

Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 460.84	Н	62.5		74.0		11.5	
10 458.96	Н		46.5		54.0		7.5
10 460.59	V	56.2		74.0		17.8	
10 472.71	V		41.8		54.0		12.2

Ch.151(5 755 MHz)

Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
3 836.63	Н	56.2		74.0		17.8	
3 836.70	Н		50.5		54.0		3.5
3 836.68	V	51.2		74.0		22.8	
3 836.73	V		36.9		54.0		17.1

Ch.159(5 795 MHz)

Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
3 863.39	Н	56.1		74.0		17.9	
3 863.42	Н		49.7		54.0		4.3
3 863.30	V	51.9		74.0		22.1	
3 863.25	V		38.3		54.0		15.7



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Remarks

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
- 2. Correction factor = Antenna factor + Cable loss Amp Gain

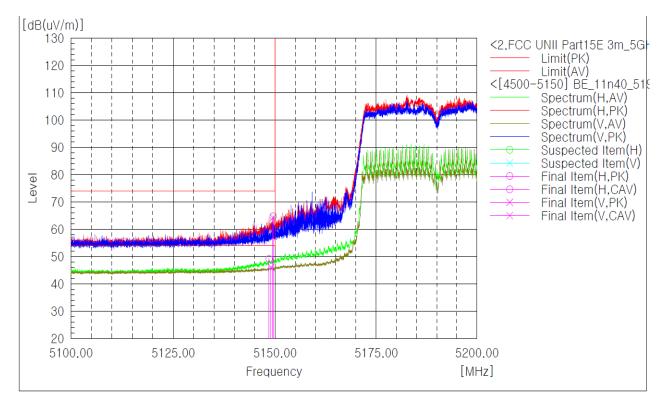


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Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency:	5 190 MHz
Channel:	38



Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 149.56	Н	64.7		74.0		9.3	
5 148.55	Н		49.1		54.0		4.9
5 149.50	V	64.2		74.0		9.8	
5 149.03	V		46.0		54.0		8.0

Radiated Restricted Band Edge Plot

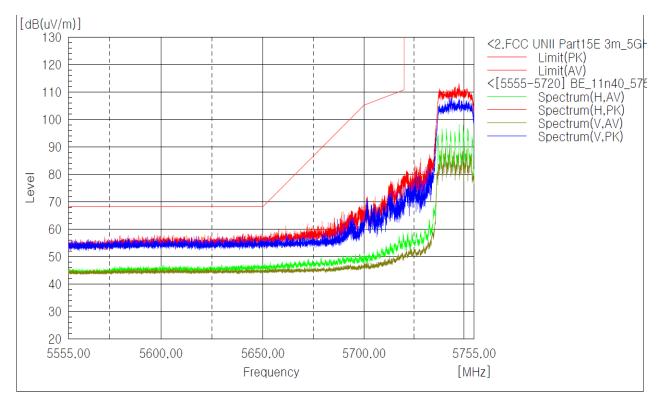


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Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency:	5 755 MHz
Channel:	151



Frequency	(P)	Level PK	Level AV	Limit PK	Limit AV	Margin	Margin
[MHz]	(1)	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	PK [dB]	AV [dB]

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot

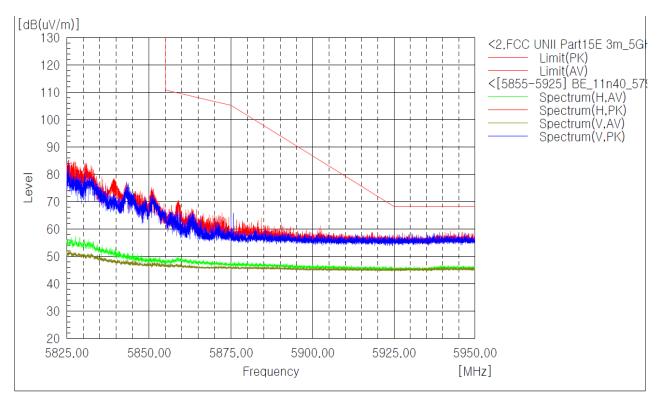


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Report No.: CTK-2020-00483 Page (163) / (176) Pages

Worst Case Mode :	802.11n_HT40
Worst Case Transfer Rate :	MCS 0
Distance of Measurements :	3 Meters
Operating Frequency:	5 795 MHz
Channel:	159



Frequency	(D)	Level PK	Level AV	Limit PK	Limit AV	Margin	
[MHz]	(P)	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	PK [dB]	AV [dB]

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot



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Test mode: Transmitter, 802.11ac_VHT40

The requirements are:

Test Data

Ch.38(5 190 MHz)

Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 383.80	Н	60.8		74.0		13.2	
10 387.56	Н		44.0		54.0		10.0
10 380.47	V	54.6		74.0		19.4	
10 393.28	V		41.2		54.0		12.8

Ch.46(5 230 MHz)

Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
10 460.62	Н	60.2		74.0		13.8	
10 460.88	Н		42.2		54.0		11.8
10 455.99	V	55.8		74.0		18.2	
10 478.38	V		41.9		54.0		12.1

Ch.151(5 755 MHz)

Frequency		Level PK	Level AV	Limit PK	Limit AV	Margin	Margin
[MHz]	(P)		[dB(uV/m)]			PK [dB]	AV [dB]
3 836.76	Н	55.7		74.0		18.3	
3 836.74	Н		50.6		54.0		3.4
3 836.73	V	48.7		74.0		25.3	
3 836.61	V		37.8		54.0		16.2

Ch.159(5 795 MHz)

Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
3 863.47	Η	55.7		74.0		18.3	
3 863.41	Н		53.1		54.0		0.9
3 863.56	>	49.9		74.0		24.1	
3 863.41	V		39.0		54.0		15.0



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Remarks

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down positon(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
- 2. Correction factor = Antenna factor + Cable loss Amp Gain

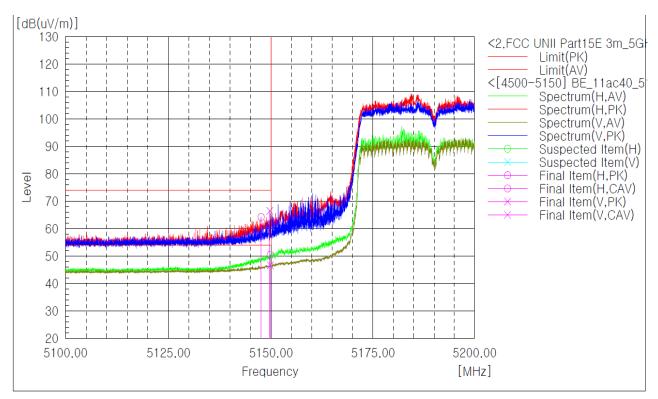


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Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency:	5 190 MHz
Channel:	38



Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 147.60	Н	64.2		74.0		9.8	
5 149.83	Н		50.4		54.0		3.6
5 149.73	V	66.5		74.0		7.5	
5 149.84	V		46.6		54.0		7.4

Radiated Restricted Band Edge Plot

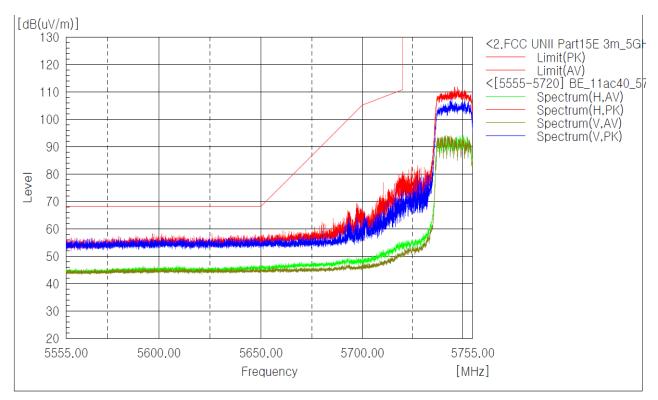


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Worst Case Mode :	802.11ac_VHT40
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency:	5 755 MHz
Channel:	151



Frequency	(P)	Level PK	Level AV	Limit PK	Limit AV	Margin	
[MHz]	(P)	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	PK [dB]	AV [dB]

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot

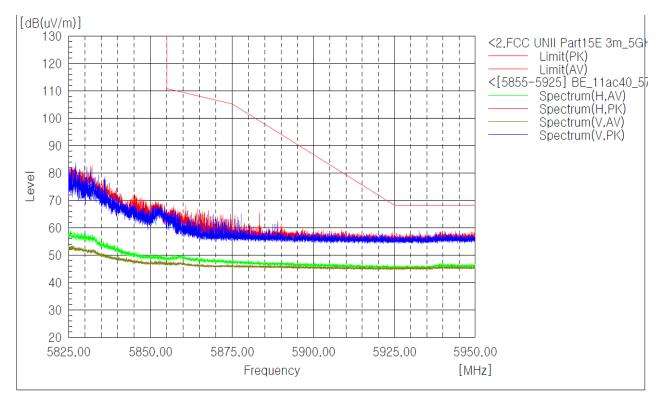


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Worst Case Mode :	802.11ac_VHT40			
Worst Case Transfer Rate :	MNSS 0			
Distance of Measurements :	3 Meters			
Operating Frequency:	5 795 MHz			
Channel:	159			



Frequency	(D)	Level PK	Level AV	Limit PK	Limit AV	Margin	Margin
[MHz]	(P)	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	PK [dB]	AV [dB]

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot



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Report No.: CTK-2020-00483 Page (169) / (176) Pages

Test mode: Transmitter, 802.11ac_VHT80

The requirements are:

□ Complies

Test Data

Ch.42(5 210 MHz)

Ciri 12(6 216 1 ii 12)									
Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]		
10 441.33	Η	59.5		74.0		14.5			
10 449.77	Η		45.6		54.0		8.4		
10 468.56	V	53.8		74.0		20.2			
10 471.45	V		41.8		54.0		12.2		

Ch.155(5 775 MHz)

Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
3 850.14	Н	55.0		74.0		19.0	
3 850.00	Н		50.2		54.0		3.8
3 850.11	V	48.8		74.0		25.2	
3 850.07	V		37.0		54.0		17.0

Remarks

- 1. The unwanted emission was measured in the following position: EUT stand-up position(Z axis), lie-down position(X,Y axis). The worst emission was found in stand-up position(Z axis) and the worst case was recorded.
- 2. Correction factor = Antenna factor + Cable loss Amp Gain

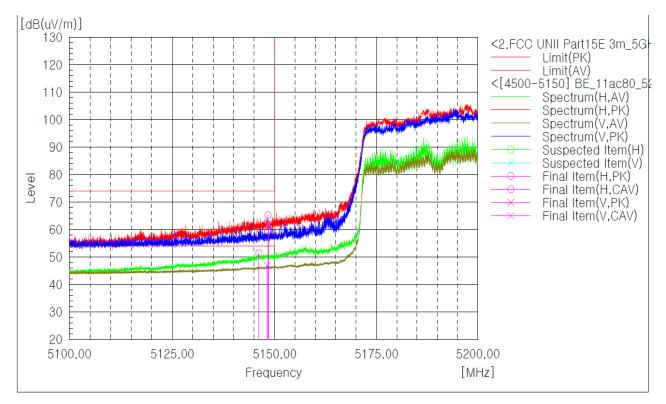


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Worst Case Mode :	802.11ac_VHT80			
Worst Case Transfer Rate :	MNSS 0			
Distance of Measurements :	3 Meters			
Operating Frequency:	5 210 MHz			
Channel:	42			



Frequency [MHz]	(P)	Level PK [dB(uV/m)]	Level AV [dB(uV/m)]	Limit PK [dB(uV/m)]	Limit AV [dB(uV/m)]	Margin PK [dB]	Margin AV [dB]
5 148.38	Н	65.2		74.0		8.8	
5 146.16	Н		51.3		54.0		2.7
5 148.50	V	61.9		74.0		12.1	
5 148.18	V		46.8		54.0		7.2

Radiated Restricted Band Edge Plot

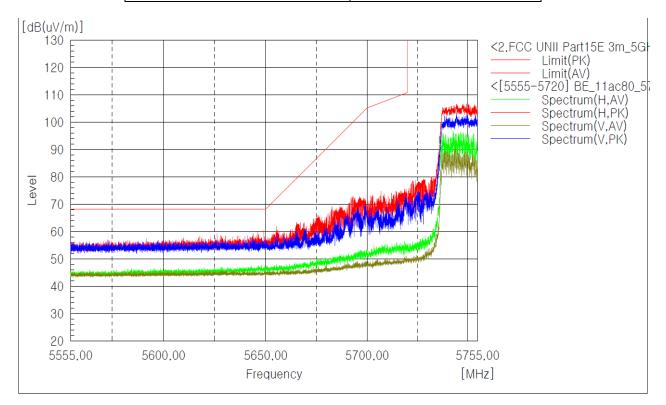


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Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency:	5 775 MHz
Channel:	155



Frequency	(P)	Level PK	Level AV	Limit PK	Limit AV	Margin	
[MHz]		[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	PK [dB]	AV [dB]
·-							·

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot

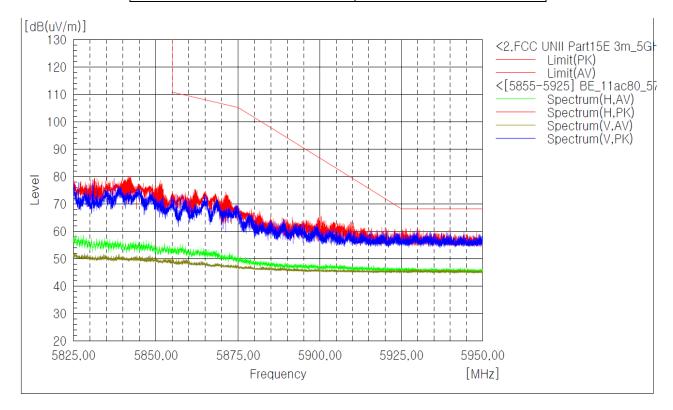


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Worst Case Mode :	802.11ac_VHT80
Worst Case Transfer Rate :	MNSS 0
Distance of Measurements :	3 Meters
Operating Frequency:	5 775 MHz
Channel:	155



Frequency	(P)	Level PK	Level AV	Limit PK	Limit AV	Margin	Margin
[MHz]		[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	[dB(uV/m)]	PK [dB]	AV [dB]

The emissions above 1 GHz were 20 dB lower than the limit.

Radiated Restricted Band Edge Plot



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4.7 AC Conducted Emissions

Test Location

Shielded Room

Frequency Range of Measurement

150 kHz to 30 MHz

Instrument Settings

IF Band Width: 9 kHz

Test Procedures

The EUT was placed on a non-metallic table 0.8m above the metallic, grounded floor and 0.4m from the reference ground plane wall. The distance to other metallic surfaces was at least 0.8m.

Amplitude measurements were performed with a quasi-peak detector and an average detector.

Limit

- 15.207(a)

Frequency	Conducted Limit (dBuV)							
(MHz)	Quasi-peak	Average						
0.15 ~ 0.5	66 to 56*	56 to 46*						
0.5 ~ 5	56	46						
5 ~ 30	60	50						

^{*} Decreases with the logarithm of the frequency.

Test Results

The requirements are:

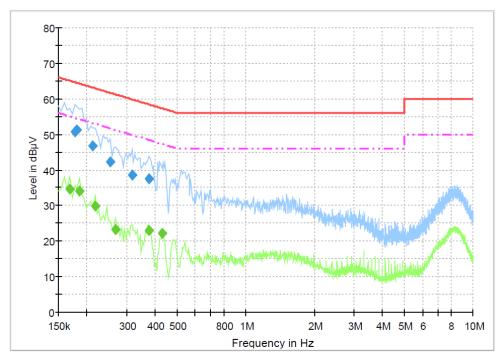


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Test Data

[LINE] 3CE_Class B_L1



Final Result 1

	Jaic							
Frequency	QuasiPeak	Meas.	Bandwidth	Filter	Line	Corr.	Margin	Limit
(MHz)	(dBµV)	Time	(kHz)			(dB)	(dB)	(dBµV)
		(ms)						
0.177000	50.7	1000.0	9.000	On	L1	9.8	13.9	64.6
0.181500	51.2	1000.0	9.000	On	L1	9.8	13.2	64.4
0.213000	46.8	1000.0	9.000	On	L1	9.8	16.3	63.1
0.253500	42.3	1000.0	9.000	On	L1	9.7	19.4	61.6
0.316500	38.6	1000.0	9.000	On	L1	9.9	21.2	59.8
0.375000	37.5	1000.0	9.000	On	L1	10.0	20.9	58.4

Final Result 2

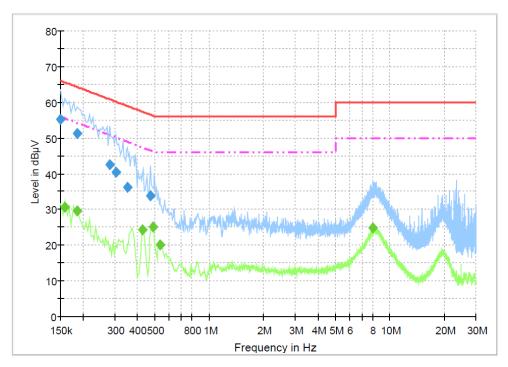
Frequency (MHz)	CAverage (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.168000	34.6	1000.0	9.000	On	L1	9.8	20.4	55.1
0.186000	34.1	1000.0	9.000	On	L1	9.8	20.1	54.2
0.217500	29.8	1000.0	9.000	On	L1	9.8	23.1	52.9
0.267000	23.2	1000.0	9.000	On	L1	9.8	28.0	51.2
0.375000	23.1	1000.0	9.000	On	L1	10.0	25.3	48.4
0.429000	22.3	1000.0	9.000	On	L1	10.0	25.0	47.3



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[NEUTRAL] 3CE_Class B_N



Final Result 1

Frequency (MHz)	QuasiPeak (dBµV)	Meas. Time (ms)	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
0.150000	55.2	1000.0	9.000	On	N	9.8	10.8	66.0
0.186000	51.2	1000.0	9.000	On	N	9.8	13.0	64.2
0.280500	42.5	1000.0	9.000	On	N	9.8	18.3	60.8
0.303000	40.5	1000.0	9.000	On	N	9.8	19.6	60.2
0.352500	36.2	1000.0	9.000	On	N	9.9	22.7	58.9
0.474000	33.9	1000.0	9.000	On	N	10.0	22.6	56.4

Final Result 2

Frequency (MHz)	CAverage (dBµV)	Meas. Time	Bandwidth (kHz)	Filter	Line	Corr. (dB)	Margin (dB)	Limit (dBµV)
		(ms)						
0.159000	30.6	1000.0	9.000	On	N	9.8	24.9	55.5
0.186000	29.6	1000.0	9.000	On	N	9.8	24.6	54.2
0.429000	24.2	1000.0	9.000	On	N	10.0	23.0	47.3
0.487500	25.2	1000.0	9.000	On	N	10.0	21.0	46.2
0.537000	20.2	1000.0	9.000	On	N	10.0	25.8	46.0
8.065500	24.8	1000.0	9.000	On	N	9.8	25.2	50.0



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APPENDIX A – Test Equipment Used For Tests

	Name of Equipment	Manufacturer	Model No.	Serial No.	Date of Calibration	Due Date
1	Signal Analyzer	Agilent	N9020A	MY48011598	2019-10-16	2020-10-16
2	Signal Analyzer	Agilent	N9020A	MY50200512	2019-04-23	2020-04-23
3	Signal Generator	Rohde & Schwarz	SMB100A	175528	2019-10-16	2020-10-16
4	EMI Test Receiver	Rohde & Schwarz	ESCI7	100814	2019-10-22	2020-10-22
5	Bilog Antenna	Schaffner	CBL6111C	2551	2018-05-10	2020-05-10
6	Active Loop Antenna	SCHWARZBECK	FMZB 1513	1513-126	2018-05-27	2020-05-27
7	6dB Attenuator	R&S	DNF	272.4110.50-2	2019-10-25	2020-10-25
8	AMPLIFIER	SONOMA	310	291721	2020-01-22	2021-01-22
9	EMI Test Receiver	Rohde & Schwarz	ESU40	100336	2020-01-17	2021-01-17
10	Preamplifier	Agilent	8449B	3008A02011	2019-11-25	2020-11-25
11	Singnal Canditioning Unit	Rohde & Schwarz	SCU-40	10023	2019-10-16	2020-10-16
12	Horn Antenna	ETS-Lindgren	3117	00154525	2019-09-25	2021-09-25
13	Horn Antenna	ETS-Lindgren	3116	00062916	2019-04-22	2021-04-22
14	Band Reject Filter	Micro Tronics	BRM50716	G264	2019-07-05	2020-07-05
15	LISN	Rohde & Schwarz	ENV216	101235	2020-01-17	2021-01-17
16	Temp&Humi Chamber	ESPEC CORP.	SH-242	93008423	2019-09-10	2020-09-10