



TEST PLOT OF SPECTRAL DENSITY FOR 5240MHz

Avg Type: RMS Avg|Hold: 100/100 Frequency Center Freq 5.745000000 GHz Trig: Free Run #Atten: 40 dB PNO: Fast ++-Auto Tune Mkr1 5.743 69 GHz -0.912 dBm Ref Offset 2.04 dB Ref 30.00 dBm 10 dB/div Center Freq 5.745000000 GHz Start Freq ▲1 5.730000000 GHz **Stop Freq** 5.76000000 GHz CF Step 3.000000 M Mar Auto **Freq Offset** 0 Hz Scale Type Span 30.00 MHz Sweep 1.066 ms (1000 pts) Center 5.74500 GHz #Res BW 510 kHz Lin #VBW 1.5 MHz* STATUS

TEST PLOT OF SPECTRAL DENSITY FOR 5745MHz

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TEST PLOT OF SPECTRAL DENSITY FOR 5785MHz

Avg Type: RMS Avg|Hold: 100/100 Frequency Center Freq 5.825000000 GHz Trig: Free Run #Atten: 40 dB PNO: Fast +++ IFGain:Low Auto Tune Mkr1 5.826 10 GHz 0.284 dBm Ref Offset 3.16 dB Ref 30.00 dBm 10 dB/div Center Freq 5.825000000 GHz Start Freq **≜**¹ 5.810000000 GHz Stop Freq 5.840000000 GHz CF Step 3.000000 M Mar Auto **Freq Offset** 0 Hz Scale Type Span 30.00 MHz Sweep 1.066 ms (1000 pts) Center 5.82500 GHz #Res BW 510 kHz Lin #VBW 1.5 MHz* STATUS

TEST PLOT OF SPECTRAL DENSITY FOR 5825MHz

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802.11ac40 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR 5190MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5230MHz



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TEST PLOT OF SPECTRAL DENSITY FOR 5755MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5795MHz



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802.11ac80 TEST RESULT TEST PLOT OF SPECTRAL DENSITY FOR 5210MHz

TEST PLOT OF SPECTRAL DENSITY FOR 5775MHz



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11. CONDUCTED SPURIOUS EMISSION

11.1. MEASUREMENT PROCEDURE

- 1. Connect EUT RF output port to the Spectrum Analyzer through an RF attenuator
- 2, Set the EUT Work on the top, the middle and the bottom operation frequency individually.
- 3. Set SPA Trace 1 Max hold, then View.

Note: The EUT was tested according to KDB 789033 for compliance to FCC 47CFR 15.407 requirements.

11.2. TEST SET-UP (BLOCK DIAGRAM OF CONFIGURATION)

The same as described in section 8.2.

11.3. MEASUREMENT EQUIPMENT USED

The same as described in section 6.

11.4. LIMITS AND MEASUREMENT RESULT

LIMITS AND MEASUREMENT RESULT						
	Measurement R	esult				
	Test channel	Criteria				
-27dBm/MHz	5150MHz-5250MHz	PASS				
All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge, and from 5 MHz above or below the band edge.	5725MHz-5850MHz	PASS				

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FOR 802.11A20 MODULATION

Keysight Spectrum Analyzer - Swept S ov 20, 2020 2 3 4 5 (Frequency Avg Type: Log-Pw Avg|Hold: 86/100 Center Freq 515.000000 MHz Trig: Free Run #Atten: 30 dB PNO: Fast IFGain:Low PASS Auto Tune Mkr1 878.71 MHz -55.505 dBm IO dB/div Ref 20.00 dBm Trace 1 Pass **Center Freq** 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Ma Auto Freq Offset 0 Hz Scale Type Start 0.0300 GHz #Res BW 100 kHz Stop 1.0000 GHz Log Lin #VBW 300 kHz Sweep 94.00 ms (30000 pts) ALIGN AUTO 11:42:46 AM Nov 20, 2020 Frequency Avg Type: Log-Pwr Avg|Hold: 65/100 Center Freq 3.050000000 GHz RACE 1 2 3 4 5 Trig: Free Run #Atten: 30 dB түр PNO: Fast DET IFGain:Low Auto Tune Mkr1 2.611 35 GHz -43.888 dBm 0 dB/div Ref 20.00 dBm Trace 1 F **Center Frea** 3.050000000 GHz Start Freq 1.000000000 GHz Stop Freq 5.10000000 GHz **CF** Step 410.000000 MI Mar Auto Frea Offset 0 Hz Scale Type Stop 5.100 GHz Sweep 8.000 ms (30000 pts) Start 1.000 GHz #Res BW 1.0 MHz Lin #VBW 3.0 MHz STATUS

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5180MHz

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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5240MHz



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CF Step 30.000000 MHz <u>o</u> Man

> Freq Offset 0 Hz

Scale Type

Lin

Auto

Log

Stop 5.4000 GHz Sweep 2.000 ms (30000 pts)



🔤 Keysight Spectrum Analyzer - Swept SA				
X RL RF 50 Ω AC Center Freq 3.050000000 C <th< td=""><td></td><td>ALIGN AUTO Avg Type: Log-Pwr AvglHold: 66/100</td><td>11:45:54 AM Nov 20, 2020 TRACE 1 2 3 4 5 6 TYPE M</td><td>Frequency</td></th<>		ALIGN AUTO Avg Type: Log-Pwr AvglHold: 66/100	11:45:54 AM Nov 20, 2020 TRACE 1 2 3 4 5 6 TYPE M	Frequency
10 dB/div Ref 20.00 dBm	IFGain:Low #Atten: 30 dB	Mkr	1 4.859 32 GHz -43.284 dBm	Auto Tune
Log Trace 1 Pass				Center Freq 3.05000000 GHz
-10.0				Start Freq 1.000000000 GHz
-20.0				Stop Freq 5.100000000 GHz
-40.0	n	uthu, attallat t i.e	1	CF Step 410.000000 MHz <u>Auto</u> Man
-50.0 http://dlink.dlink	n e e para se andre på skalle (biller altre e para e efficientie) og de se en se en se en se en se en se en se	an a	n galan yang san	Freq Offset 0 Hz
-70.0				Scale Type
Start 1.000 GHz #Res BW 1.0 MHz	#VBW 3.0 MHz	Sweep 8.0	Stop 5.100 GHz 000 ms (30000 pts)	
Keysight Spectrum Analyzer - Swept SA				
M RL RF 50 Ω AC Center Freq 5.250000000 Center Freq 5.250000000 Center Freq 5.250000000 Center Freq 5.2500000000 Center Freq 5.25000000000 Center Freq 5.2500000000 Center Freq 5.25000000000 Center Freq 5.2500000000 C	CORREC SENSE:INT GHZ PNO: East +++ Trig: Free Run	ALIGN AUTO Avg Type: Log-Pwr Avg Hold: 93/100	11:46:00 AM Nov 20, 2020 TRACE 1 2 3 4 5 6 TYPE M WWWW	Frequency
10 dB/div Ref 20.00 dBm	IFGain:Low #Atten: 30 dB	Mkr	1 5.241 40 GHz 11.267 dBm	Auto Tune
10.0 Trace 1 Pass				Center Freq 5.25000000 GHz
-10.0				Start Freq 5.100000000 GHz
-20.0				Stop Freq

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#VBW 3.0 MHz

Attestation of Global Compliance(Shenzhen)Co., Ltd Attestation of Global Compliance(Shenzhen)Std & Tech Co., Ltd Tel: +86-755 2523 4088 E-mail: agc@agc-cert.com Web: http://cn.agc-cert.com/

Start 5.1000 GHz #Res BW 1.0 MHz

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Keysight Spectr	um Analyzer - Swept	SA							- 6 Z
Center Fre	RF 50 Ω	AC CORREC	SE	NSE:INT	Avg Type	ALIGN AUTO	01:44:07 PI TRAC	MNov 20, 2020	Frequency
PASS	quinne	PNO: Fast IFGain:Low	HAtten: 3	e Run 30 dB	Avg Hold:	85/100	TYF		
		II Guilles.				M	kr1 932.	36 MHz	Auto Tun
10 dB/div	Ref 20.00 dB	m					-55.5	72 dBm	
Trace	1 Pass			Y					Center Fre
10.0									515.000000 MH
0.00									Start Fre
10.0									30.000000 MH
210.01									
-20.0									Stop Fre
									1.000000000 GH
-30.0									
-40.0									CF Ste
									97.000000 MH Auto Ma
-50.0								1	
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-60.0 Physical 40 max and ma	n an an an Anna an Ann An Anna an Anna	and hour hour strategies.	a an	a internet de la comp		and the second secon	a la sulta a sulta a	Addition of the other of the	он
70.0									
27010									Scale Typ
Start 0.020							- Oten 1 (Log Li
#Res BW 1	00 kHz	#V	BW 300 kHz		s	weep 94	Stop 1.0	0000 GHZ	
MSG						STATUS	3		
								(8)	
Keysight Spectr	rum Analyzer - Swept S	SA AC CORREC	SE	NSE:INT		ALIGN AUTO	01:44:12 P	MNov 20, 2020	
Keysight Spectr	um Analyzer - Swept : RF 50 Ω cq 3.3250000	SA AC CORREC 000 GHZ PNO: East	SE	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO 2: Log-Pwr 2: 62/100	01:44:12 P TRAC TYF	M Nov 20, 2020 E <mark>1 2 3 4 5 6</mark> E M WWWW	Frequency
Keysight Spectr	aum Analyzer - Swept 1 RF 50 Ω 2 q 3.3250000	SA AC CORREC 000 GHZ PNO: Fast IFGain:Low	SE → Trig: Fre , #Atten: 3	NSE:INT e Run 30 dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr : 62/100	01:44:12 P TRAC TYP DE	M Nov 20, 2020 E 1 2 3 4 5 6 PE M WWWWW T P N N N N N	Frequency
Keysight Spectr	um Analyzer - Swept 1 RF 50 Ω 7 cq 3.3250000	SA AC CORREC 0 000 GHz PNO: Fast IFGain:Low	Trig: Fre #Atten: 3	NSE:INT e Run 30 dB	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr :: 62/100 Mkr1	01:44:12 PI TRAC TY DE 5.538 3 -43 3	MNov 20, 2020 E 1 2 3 4 5 6 MWWWWW P NNNNN 96 GHZ	Frequency Auto Tun
Keysight Spectr	um Analyzer - Swept 1 RF 50 Ω / rq 3.3250000 Ref 20.00 dB	SA AC CORREC OOO GHZ PNO: Fast IFGain:Low	SE Trig: Fre #Atten: 3	NSE:INT e Run 30 dB	Avg Type Avg Hold:	ALIGN AUTO 2: Log-Pwr 3: 62/100 Mikr1	01:44:12 PI TRAC TYF 5.538 3 -43.3	MNov 20, 2020 2 3 4 5 6 M M M M M P N N N N N 96 GHz 00 dBm	Frequency Auto Tun
Keysight Spectr	um Analyzer - Swept 3 RF 50 Ω (q 3.3250000 Ref 20.00 dB 1 Pass	SA AC CORREC 0000 GHZ PNO: Fast IFGain:Low	SE →→ #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO 2: Log-Pwr 62/100 Mkr1	01:44:12 PI TRAC TY 5.538 3 -43.3	MNov 20, 2020 E 1 2 3 4 5 6 F M F P NNNN 396 GHz 00 dBm	Frequency Auto Tun Center Fre
Center Fre PASS	um Analyzer - Swept ti RF 50 Ω og 3.3250000 Ref 20.00 dB 1 Pass	SA AC CORREC DOO GHZ PNO: Fast IFGain:Low	→ Trig: Fre , #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr : 62/100 Mikr1	01:44:12 PI TRAC TY DE 5.538 3 -43.3	MNov 20, 2020	Frequency Auto Tun Center Fre 3.325000000 GH
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Keysight Spectr	um Analyzer - Swept 1 RF 50.0 q 3.3250000 Ref 20.00 dB 1 Pass	SA AC CORREC 000 GHZ PNO: Fast IFGain:Low	, Trig: Fre	NSE:INT	Avg Type Avg Hold	ALIGN AUTO 2: Log-Pwr 62/100	01:44:12.PI TRAC TYP 5.538 3 -43.3	MNov 20, 2020 E 1 2 3 4 5 6 E M NNNN 96 GHz 00 dBm	Frequency Auto Tun Center Fre 3.32500000 GH
Keysight Spectr	um Analyzer - Swept 1 RF 50.0 / q 3.3250000 Ref 20.00 dB 1 Pass	SA AC CORREC PODO GHZ PONO: Fast IFGain:Low	Trig: Fre #Atten: 3	NSE:INT	Avg Type Avg Hold	ALIGN AUTO E Log-Pwr 62/100	01:44:12 PI TRAC TVF DI 5.538 3 -43.3	MNov 20, 2020 E 1 2 3 4 5 6 E M NNN N 96 GHz 00 dBm	Frequency Auto Tun Center Fre 3.32500000 GH
Keysight Spectre Center Fre PASS	um Analyzer - Swept 3 RF 50 Ω / q 3.3250000 Ref 20.00 dB 1 Pass	SA AC CORREC DO DOD GHZ PNO: Fast IFGain:Low	, ↔ Trig: Fre #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO 5: Log-Pwr 62/100	01:44:12 PI TRAC TYS D 5.538 3 -43.3	MNov 20, 2020	Frequency Auto Tun Center Fre 3.32500000 GH Start Fre 1.00000000 GH
Keysight Spectre RL Center Fre PASS 10 dB/div Log Trace 10.0	um Analyzer - Swept 3 RF 50 Q // q 3.3250000 Ref 20.00 dB 1 Pass	SA AC CORREC DO PNO: Fast IFGain:Low	→ Trig: Fre #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO :: Log-Pwr 62/100 MIKr1	01:44:12 PI TRAC TYF D 5.5338 3 -43.3	M Nov 20, 2020	Frequency Auto Tun Center Fre 3.32500000 GH 1.00000000 GH Stop Fre
Keysight Spectre Center Fre PASS 10 dB/div Log Trace 10.0 -10.0 -20.0 .30.0	um Analyzer - Swept 3 RF 50 Q // q 3.3250000 Ref 20.00 dB 1 Pass	SA AC CORREC DO DOO GHZ PNO: Fast IFGain:Low	SE Trig: Fre #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr 62/100	01:44:12 PI TRAC TYR D 5.5338 3 -43.3	M Nov 20, 2020	Center Fre 3.325000000 GH Start Fre 1.000000000 GH Stop Fre 5.650000000 GH
Keysight Spectre Center Fre PASS 10 dB/div Log Trace 10.0 -10.0 -20.0 -30.0	um Analyzer - Swept 1 RF 50 Ω q 3.3250000 Ref 20.00 dB 1 Pass	SA AC CORREC PNO: Fast IFGain:Low m	Trig: Fre #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO E Log-Pwr 62/100 MIKC1	01:44:12 PI TRAC TVF 05 5.538 3 -43.3	M Nov 20, 2020	Center Fre 3.325000000 GH Start Fre 1.000000000 GH Stop Fre 5.650000000 GH
Keysight Spectre Center Fre PASS 10 dB/div Log Trace 10.0 -10.0 -20.0 -30.0 -40.0	um Analyzer - Swept 1 RF 50 Ω q 3.3250000 Ref 20.00 dB 1 Pass	SA AC CORREC PNO: Fast IFGain:Low	Trig: Fre #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO E: Log-Pwr 62/100 MIKr1	01:44:12 PI TRAC TV 0 5.5338 3 -43.3	MNov 20, 2020	Start Fre 1.00000000 GH Stop Fre 5.65000000 GH CF Ste 465.00000 MH
Keysight Spectr RL Center Fre PASS 10 dB/div Log Trace 10.0 -10.0 -10.0 -20.0 -30.0 -40.0	um Analyzer - Swept 1 RF 50 Ω / q 3.3250000 Ref 20.00 dB 1 Pass	SA AC CORREC D PNO: Fast IF Gain: Low M	Trig: Fre #Atten: 3	nse:INT	Avg Type Avg Hold:	ALIGN AUTO E Log-Pwr 62/100 MKr1	01:44:12 PI TRAC TRAC DR 5.538 3 -43.3		Center Fre 3.325000000 GH Start Fre 1.000000000 GH Stop Fre 5.65000000 GH CF Step 465.000000 MH 400 MH 400 MH 400 MH
Keysight Spectr RL Center Fre PASS O dB/div I o data I o data <thi o<="" th=""><td>um Analyzer - Swept 1 RF 50 Q / q 3.3250000 Ref 20.00 dB 1 Pass</td><td>SA AC CORREC PNO: Fast IF Gain:Low m m transformer M M M M M M M M M M M M M</td><td>Trig: Fre #Atten: 3</td><td>NSE:INT</td><td></td><td>ALIGN AUTO E Log-Pwr 62/100 MKr1 Align Auto Align</td><td>01:44:12 PI TRAC TRAC DE 5.538 3 -43.3</td><td></td><td>Start Fre 1.00000000 GH Start Fre 1.00000000 GH Stop Fre 5.65000000 GH CF Ste 465.000000 MH Auto Ma</td></thi>	um Analyzer - Swept 1 RF 50 Q / q 3.3250000 Ref 20.00 dB 1 Pass	SA AC CORREC PNO: Fast IF Gain:Low m m transformer M M M M M M M M M M M M M	Trig: Fre #Atten: 3	NSE:INT		ALIGN AUTO E Log-Pwr 62/100 MKr1 Align Auto Align	01:44:12 PI TRAC TRAC DE 5.538 3 -43.3		Start Fre 1.00000000 GH Start Fre 1.00000000 GH Stop Fre 5.65000000 GH CF Ste 465.000000 MH Auto Ma
Keysight Spectric RL Center Fre PASS 10 dB/div 0 00 10.0 -20.0 -30.0 -40.0 -50.0 wit (tradition) -60.0	um Analyzer - Swept 1 RF 50.2 / q 3.3250000 Ref 20.00 dB 1 Pass	SA AC CORREC PNO: Fast IFGain:Low m M IFGain:Low M IFGain:Low M IFGain:Low M IFGain:Low IFGain:Low	Trig: Fre #Atten: 3	NSE:INT		ALIGN AUTO :: Log-Pwr 62/100 MKr1	01:44:12 PI TRAC TYS 5.538 3 -43.3	M Nov 20, 2020	Center Fre 3.325000000 GH Start Fre 1.000000000 GH Stop Fre 5.65000000 GH Gr Step Fre 465.000000 GH Auto Tun Gr Step Fre 5.65000000 GH Gr Step Fre 465.000000 GH Auto Ma Freq Offse
Keysight Spectric RL Center Fre PASS 10 dB/div -0 dB/div -10 0 -10 0 -20 0 -30 0 -30 0 -30 0 -40 0 -50 0 -60 0	um Analyzer - Swept 1 RF 50.0 / q 3.3250000 Ref 20.00 dB 1 Pass 1 Pass 1 Pass 1 Pass 1 Pass	SA AC CORREC PODO CHZ PON: Fest IFGain:Low M M If Gain:Low M If Gain:Low M If Gain:Low M If Gain:Low M If Gain:Low If Gain If	SE Trig: Fre #Atten: 3 4 4 4 4 4 4 4 4 4 4 4 4 4	NSE:INT		ALIGN AUTO :: Log-Pwr 62/100 MKr1	01:44:12 PI TRAC TYF D 5.5.538 3 -43.3 -43.3	M Nov 20, 2020	Start Fre 3.325000000 GH Start Fre 1.000000000 GH Stop Fre 5.650000000 GH 465.000000 GH Auto Ma Freq Offse 0 H
Keysight Spectric Z RL Center Fre PASS 10 dB/div 0 dB/div 10 dB/div -0 dB/div -0 dB/div -0 dB/div -0 dB/div -0 dB/div -0 dB/div -10 0 -10 0 -20 0 -30 0 -30 0 -40 0 -50 0 -60 0 -70 0	um Analyzer - Swept 1 RF 50.0 / q 3.3250000 Ref 20.00 dB 1 Pass	SA AC CORREC PRO: Fast IFGain:Low m	SE →→ Trig: Fre #Atten: 3 4 100 Prob	NSE:INT		ALIGN AUTO :: Log-Pwr 62/100 MKr1	01:44:12 PT TRAC TYF D 5.5.538 3 -43.3 -43.3	M Nov 20, 2020	Start Fre 3.325000000 GH Start Fre 1.000000000 GH Stop Fre 5.650000000 GH 465.000000 GH Auto Ma Freq Offse 0 H
Keysight Spectre Center Fre PASS 10 dB/div -30 0 -40 0 -50 0 -40 0 -50 0 -70 0	um Analyzer - Swept 1 RF 50 Q / q 3.32550000 Ref 20.00 dB 1 Pass 1 Pass	SA AC CORREC DO PNO: Fast IFGain:Low m 	Contraction of the second seco	NSE:INT		ALIGN AUTO E Log-Pwr 62/100 MIKT1	01:44:12 PI TRAC TYP D 5.5.538 3 -43.3	M Nov 20, 2020	Frequency Auto Tun Center Fre 3.325000000 GH Start Fre 1.000000000 GH Stop Fre 5.650000000 GH CF Ste 465.000000 MH Auto Ma Freq Offse 0 H Scale Typ
Keysight Spectr Z RL Center Fre PASS 10 dB/div Log Trace 10.0 -10.0 -10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -60.0 -70.0 Start 1.0000	um Analyzer - Swept 1 RF 50 Q / q 3.32550000 Ref 20.00 dB 1 Pass 1 Pass	SA AC CORREC PNO: Fast IFGain:Low m 	Line of the second seco	NSE:INT			01:44:12 PI TRAC TYPE 5.5338 3 -43.3	M Nov 20, 2020	Start Fre 1.00000000 GH Start Fre 1.000000000 GH Stop Fre 5.65000000 GH Auto Ma Freq Offse 0 H Scale Typ Log Li
Keysight Spectr Z RL Center Fre PASS 10 dB/div Log Trace 10.0 -10.0 -10.0 -10.0 -20.0 -30.0 -40.0 -50.0 -40.0 -50.0 Start 1.000 #Res BW 1.	um Analyzer - Swept 1 RF 502 / q 3.3250000 Ref 20.00 dB 1 Pass // 1 Pas	SA AC CORREC PNO: Fast IF Gain: Low m (Locate processor Log (e)	Trig: Fre #Atten: 3	NSE:INT	Avg Type Avg Hold:	ALIGN AUTO E Log-Pwr 62/100 Mkr1	01:44:12 PI TRAC TRAC TRAC TRAC TRAC TRAC TRAC TRAC	M Nov 20, 2020 E 1 23 4 56 P NN M N N 96 GHz 00 dBm 1 1 1 1 1 1 1 1 1 1 1 1 1	Start Fre 1.00000000 GH Stop Fre 5.65000000 GH CF Step 465.000000 MH Auto Main Freq Offse 0 H Scale Typ Log Li

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5745MHz

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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5825MHz



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FOR 802.11N40 MODULATION

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5190MHz

Keysight Spectrum Analyzer - Swept S 0:36 AM Nov 20, 2020 ALIGN AUTO Avg Type: Log-Pwr Avg|Hold: 86/100 Frequency Center Freq 515.000000 MHz Trig: Free Run PNO: Fast +++ #Atten: 30 dB DE Auto Tune Mkr1 968.02 MHz -54.743 dBm 10 dB/div Ref 20.00 dBm Trace 1 Pass **Center Freq** 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Ma <u>Auto</u> Freq Offset 0 Hz Scale Type Start 0.0300 GHz #Res BW 100 kHz Stop 1.0000 GHz Sweep 94.00 ms (30000 pts) Log Lin #VBW 300 kHz RI 42 AM Nov 20 2020 Avg Type: Log-Pw Avg|Hold: 65/100 Frequency Center Freq 3.050000000 GHz Trig: Free Run PNO: Fast 🔸 PASS IEGai #Atten: 30 dB Auto Tune Mkr1 5.099 45 GHz -43.619 dBm 10 dB/div Ref 20.00 dBm Trace 1 ass Center Freq 3.050000000 GHz Start Freq 1.000000000 GHz Stop Freq 5.10000000 GHz CF Step 410.000000 M Mar Auto **Freq Offset** 0 Hz Scale Type Stop 5.100 GHz Sweep 8.000 ms (30000 pts) Start 1.000 GHz #Res BW 1<u>.0 MHz</u> Lin #VBW 3.0 MHz STATUS

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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5230MHz



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🔤 Keysight Spectrum Analyzer - Swept SA 🚽				
κ s s s a Center Freq 3.05000000 δ β δ b b b b b b b b c <thc< th=""> c c c</thc<>	CORREC SENSE:IN CORREC SENSE:IN CORREC SENSE:IN	ALIGN AUTO Avg Type: Log-Pwr	11:53:01 AM Nov 20, 2020 TRACE 1 2 3 4 5 6	Frequency
PASS	PNO: Fast ++ Trig: Free Ku IFGain:Low #Atten: 30 dB			Auto Tune
10 dB/div Ref 20.00 dBm		MKI	-43.104 dBm	
Log Trace 1 Pass				Contor From
10.0				3.050000000 GHz
0.00				
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				5.100000000 GHz
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MSG		STATU	3	
Keysight Spectrum Analyzer - Swept SA				
Image: RF 50 Ω AC Conter Freq 5 2500000000	CORREC SENSE:II	ALIGN AUTO	11:53:07 AM Nov 20, 2020	Frequency
PASS	PNO: Fast ++ Trig: Free Run IFGain:Low #Atten: 30 dB	n Avg Hold: 94/100	DET P N N N N	
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Scale Type

Lin

Log

Stop 5.650 GHz Sweep 8.000 ms (30000 pts)



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#VBW 3.0 MHz

Start 1.000 GHz #Res BW 1.0 MHz





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TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5795M



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Scale Type

Lin

Log

Stop 5.9250 GHz

Sweep 2.000 ms (30000 pts)





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#VBW 3.0 MHz

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Start 5.6500 GHz #Res BW 1.0 MHz

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FOR 802.11AC80 MODULATION

TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5210MHz

Keysight Spectrum Analyzer - Swept S 01:40:08 PM Nov 20, 2020 ALIGN AUTO Avg Type: Log-Pwr Avg|Hold: 85/100 Frequency Center Freq 515.000000 MHz Trig: Free Run PNO: Fast +++ IFGain:Low #Atten: 30 dB DE Auto Tune Mkr1 756.65 MHz -56.330 dBm 10 dB/div Ref 20.00 dBm Trace 1 Pass **Center Freq** 515.000000 MHz Start Freq 30.000000 MHz Stop Freq 1.000000000 GHz CF Step 97.000000 MHz Ma <u>Auto</u> Freq Offset 0 Hz Scale Type Start 0.0300 GHz #Res BW 100 kHz Stop 1.0000 GHz Sweep 94.00 ms (30000 pts) Log Lin #VBW 300 kHz RI Avg Type: Log-Pw Avg|Hold: 65/100 Frequency Center Freq 3.050000000 GHz Trig: Free Run PNO: Fast 🔸 PASS IEGai #Atten: 30 dB Auto Tune Mkr1 5.086 74 GHz -42.663 dBm 10 dB/div Ref 20.00 dBm Trace 1 ass Center Freq 3.050000000 GHz Start Freq 1.000000000 GHz Stop Freq 5.10000000 GHz CF Step 410.000000 M Mar Auto **Freq Offset** 0 Hz Scale Type Stop 5.100 GHz Sweep 8.000 ms (30000 pts) Start 1.000 GHz #Res BW 1<u>.0 MHz</u> Lin #VBW 3.0 MHz STATUS

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Peak Search

Next Peak

月 21.20





TEST PLOT OF OUT OF BAND EMISSIONS FOR MODULATION IN 5775MHz



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Scale Type

Lin

Log

Stop 5.9250 GHz

Sweep 2.000 ms (30000 pts)





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#VBW 3.0 MHz

Start 5.6500 GHz #Res BW 1.0 MHz

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Note: All the 20MHz bandwidth modulation had been tested, the 802.11a20 was the worst case and record in his test report. All the 40MHz bandwidth modulation had been tested, the 802.11N40 was the worst case and record in his test report. If the 80MHz bandwidth modulation had been tested, the 802.11AC80 was the worst case and record in his test report.

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12. RADIATED EMISSION

12.1. MEASUREMENT PROCEDURE

- 1. The EUT was placed on the top of the turntable 0.8 or 1.5 meter above ground. The phase center of the receiving antenna mounted on the top of a height-variable antenna tower was placed 3 meters far away from the turntable.
- 2. Power on the EUT and all the supporting units. The turntable was rotated by 360 degrees to determine the position of the highest radiation.
- 3. The height of the broadband receiving antenna was varied between one meter and four meters above ground to find the maximum emissions field strength of both horizontal and vertical polarization.
- 4. For each suspected emissions, the antenna tower was scan (from 1 M to 4 M) and then the turntable was rotated (from 0 degree to 360 degrees) to find the maximum reading.
- 5. Set the test-receiver system to Peak or CISPR quasi-peak Detect Function with specified bandwidth under Maximum Hold Mode.
- 6. For emissions above 1GHz, use 1MHz RBW and 3M VBW for peak reading. Place the measurement antenna away from each area of the EUT determined to be a source of emissions at the specified measurement distance, while keeping the measurement antenna aimed at the source of emissions at each frequency of significant emissions, with polarization oriented for maximum response. The measurement antenna may have to be higher or lower than the EUT, depending on the radiation pattern of the emission and staying aimed at the emission source for receiving the maximum signal. The final measurement antenna elevation shall be that which maximizes the emissions. The measurement antenna elevation for maximum emissions shall be restricted to a range of heights of from 1 m to 4 m above the ground or reference ground plane.
- 7. When the radiated emissions limits are expressed in terms of the average value of the emissions, and pulsed operation is employed, the measurement field strength shall be determined by averaging over one complete pulse train, including blanking intervals, as long as the pulse train does not exceed 0.1 seconds. As an alternative (provided the transmitter operates for longer than 0.1 seconds) or in cases where the pulse train exceeds 0.1 seconds, the measured field strength shall be determined from the average absolute voltage during a 0.1 second interval during which the field strength is at its maximum values.
- 8.If the emissions level of the EUT in peak mode was 3 dB lower than the average limit specified, then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions which do not have 3 dB margin will be repeated one by one using the quasi-peak method for below 1GHz.
- 9. For testing above 1GHz, the emissions level of the EUT in peak mode was lower than average limit (that means the emissions level in peak mode also complies with the limit in average mode), then testing will be stopped and peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.
- 10. In case the emission is lower than 30MHz, loop antenna has to be used for measurement and the recorded data should be QP measured by receiver. High Low scan is not required in this case.

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12.2. TEST SETUP

Radiated Emission Test-Setup Frequency Below 30MHz



RADIATED EMISSION TEST SETUP 30MHz-1000MHz



RADIATED EMISSION TEST SETUP ABOVE 1000MHz



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12.3. LIMITS AND MEASUREMENT RESULT

15.209(a) Limit in the below table has to be followed

Frequencies (MHz)	Field Strength (micorvolts/meter)	Measurement Distance (meters)
0.009~0.490	2400/F(KHz)	300
0.490~1.705	24000/F(KHz)	30
1.705~30.0	30	30
30~88	100	3
88~216	150	3
216~960	200	3
Above 960	500	3

Note: All modes were tested For restricted band radiated emission,

the test records reported below are the worst result compared to other modes.

12.4. TEST RESULT

RADIATED EMISSION BELOW 30MHZ

The amplitude of spurious emissions from 9kHz to 30MHz which are attenuated more than 20 dB below the permissible value need not be reported.

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RADIATED EMISSION BELOW 1GHZ

EUT	ViewBoard Cast Button	Model Name	VS18188
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



Peak data list

	NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
ľ	1	85.2900	36.28	7.20	40.00	3.72	200	172	Horizontal
	2	94.0200	38.95	8.92	43.50	4.55	200	169	Horizontal
	3	305.4800	42.77	16.10	46.00	3.23	100	308	Horizontal
	4	418.9700	39.82	20.22	46.00	6.18	100	328	Horizontal
	5	649.8300	39.34	25.17	46.00	6.66	100	250	Horizontal

QP data list

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	288.7132	16.14	41.33	46.00	4.67	170	250	Horizontal

RESULT: PASS

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EUT	ViewBoard Cast Button	Model Name	VS18188
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	76.5600	32.96	7.87	40.00	7.04	100	212	Vertical
2	145.4300	37.65	14.88	43.50	5.85	100	205	Vertical
3	288.0200	36.13	16.16	46.00	9.87	100	126	Vertical
4	361.7400	38.28	18.30	46.00	7.72	100	235	Vertical
5	418.9700	37.46	20.22	46.00	8.54	100	258	Vertical
6	649.8300	38.36	25.17	46.00	7.64	100	185	Vertical

RESULT: PASS

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Report No.: AGC10540201101FE06 Page 89 of 117

EUT	ViewBoard Cast Button	Model Name	VS18188
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal



Peak data list

NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	93.0500	38.27	8.52	43.50	5.23	200	175	Horizontal
2	304.5100	42.96	16.07	46.00	3.04	100	306	Horizontal
3	418.9700	39.29	20.22	46.00	6.71	100	323	Horizontal
4	648.8600	38.82	25.14	46.00	7.18	100	241	Horizontal

QP data list

NO.	Freq. [MHz]	Factor [dB]	QP Value [dBµV/m]	QP Limit [dBµV/m]	QP Margin [dB]	Height [cm]	Angle [°]	Polarity
1	87.0015	7.23	34.75	40.00	5.25	280	160	Horizon tal
2	288.8898	16.14	41.57	46.00	4.43	140	100	Horizon tal

RESULT: PASS

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EUT	ViewBoard Cast Button	Model Name	VS18188
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Vertical



NO.	Freq. [MHz]	Level [dBµV/m]	Factor [dB]	Limit [dBµV/m]	Margin [dB]	Height [cm]	Angle [°]	Polarity
1	77.5300	32.54	7.66	40.00	7.46	100	201	Vertical
2	146.4000	37.05	14.88	43.50	6.45	100	227	Vertical
3	288.9900	36.54	16.14	46.00	9.46	100	116	Vertical
4	360.7700	38.46	18.25	46.00	7.54	100	221	Vertical
5	435.4600	37.71	20.65	46.00	8.29	100	221	Vertical
6	649.8300	38.01	25.17	46.00	7.99	100	330	Vertical

RESULT: PASS

Note: All test channels had been tested. The 802.11a20 is the worst case and recorded in the test report.. Factor = Antenna Factor + Cable loss - Amplifier gain, Margin=Limit-Level.

The "Factor" value can be calculated automatically by software of measurement system.

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RADIATED EMISSION ABOVE 1GHZ

EUT	ViewBoard Cast Button	Model Name	VS18188
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	Value Ture
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10360.042	47.35	9.14	56.49	68.20	-11.71	peak
15540.063	42.14	10.22	52.36	74.00	-21.64	peak
15540.063	31.59	10.22	41.81	54.00	-12.19	AVG
Remark:	0			- G	C	
Factor = Ante	enna Factor + Ca	ble Loss –	Pre-amplifier.		-0	

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin		
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type	
10360.042	47.39	9.14	56.53	68.20	-11.67	peak	
15540.063	42.87	10.22	53.09	74.00	-20.91	peak	
15540.063	33.14	10.22	43.36	54.00	-10.64	AVG	
Remark:		©				Ci.	
Factor = Ante	Factor = Antenna Factor + Cable Loss – Pre-amplifier.						
R							

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EUT	ViewBoard Cast Button	Model Name	VS18188
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5200MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

leter Reading	Factor	Emission Loval		(2)	
	i actor	Emission Level	Limits	Margin	
(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
48.16	9.14	57.30	68.20	-10.90	peak
41.37	10.22	51.59	74.00	-22.41	peak
30.59	10.22	40.81	54.00	-13.19	AVG
8			- 6	8	
a Factor + Ca	able Loss – P	re-amplifier.			
	(dBμV) 48.16 41.37 30.59 a Factor + Ca	(dBμV) (dB) 48.16 9.14 41.37 10.22 30.59 10.22	(dBµV) (dB) (dBµV/m) 48.16 9.14 57.30 41.37 10.22 51.59 30.59 10.22 40.81 a Factor + Cable Loss – Pre-amplifier.	(dBµV) (dB) (dBµV/m) (dBµV/m) 48.16 9.14 57.30 68.20 41.37 10.22 51.59 74.00 30.59 10.22 40.81 54.00	(dBµV) (dB) (dBµV/m) (dBµV/m) (dB) 48.16 9.14 57.30 68.20 -10.90 41.37 10.22 51.59 74.00 -22.41 30.59 10.22 40.81 54.00 -13.19

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10400.042	46.39	9.14	55.53	68.20	-12.67	peak
15600.063	41.37	10.22	51.59	74.00	-22.41	peak
15600.063	30.58	10.22	40.80	54.00	-13.20	AVG
Remark:	- C	8				0
Factor = Ante	nna Factor + C	able Loss – P	re-amplifier.		S	

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EUT	ViewBoard Cast Button	Model Name	VS18188
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5240MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

	Mater Deeding	Fastar	Envioation Laural	Linette	Manain	
Frequency	Weter Reading	Factor	Emission Level	Limits	Iviargin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10480.042	48.12	9.27	57.39	68.20	-10.81	peak
15720.063	43.18	10.38	53.56	74.00	-20.44	peak
15720.063	32.78	10.38	43.16	54.00	-10.84	AVG
Remark:	8			a G	8	
Factor = Ante	enna Factor + Ca	able Loss – P	re-amplifier.		-0	
			(2)			

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
10480.042	45.28	9.27	54.55	68.20	-13.65	peak
15720.063	40.17	10.38	50.55	74.00	-23.45	peak
15720.063	30.57	10.38	40.95	54.00	-13.05	AVG
Remark:		8				
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	ViewBoard Cast Button	Model Name	VS18188
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5745MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11490.042	46.39	9.42	55.81	74.00	-18.19	peak
11490.042	37.18	9.42	46.60	54.00	-7.40	AVG
17235.063	40.25	10.51	50.76	68.20	-17.44	peak
Remark:	8			- 6	8	
Factor = Ante	enna Factor + C	able Loss – P	re-amplifier.		-0	
			R			

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11490.042	43.28	9.42	52.70	74.00	-21.30	peak
11490.042	37.14	9.42	46.56	54.00	.7.44	AVG
17235.063	39.58	10.51	50.09	68.20	-18.11	peak
Remark:	- 6	0				C.
Factor = Antenna Factor + Cable Loss – Pre-amplifier.						

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EUT	ViewBoard Cast Button	Model Name	VS18188
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5785MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11570.042	48.31	9.42	57.73	74.00	-16.27	peak
11570.042	37.15	9.42	46.57	54.00	-7.43	AVG
17355.063	41.55	10.51	52.06	68.20	-16.14	peak
Remark:	8			C.	®	
Factor = Ante	enna Factor + C	able Loss – Pi	re-amplifier.		- 61	8

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11570.042	47.36	9.42	56.78	74.00	-17.22	peak
11570.042	38.45	9.42	47.87	54.00	-6.13	AVG
17355.063	41.94	10.51	52.45	68.20	-15.75	peak
Remark:		8				C.
Factor = Ante	enna Factor + C	able Loss – F	Pre-amplifier.			
		9	G	8		

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EUT	ViewBoard Cast Button	Model Name	VS18188
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5825MHz	Antenna	Horizontal/Vertical

RADIATED EMISSION ABOVE 1GHZ-Horizontal

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11650.042	45.31	9.62	52.98	74.00	-21.02	peak
11650.042	34.18	9.62	45.05	54.00	-8.95	AVG
17475.063	39.72	10.75	47.61	68.20	-26.39	peak
Remark:	8			- C.	®	
Factor = Ante	enna Factor + C	able Loss – Pi	re-amplifier.		- 6	8
	2					

RADIATED EMISSION ABOVE 1GHZ-Vertical

Frequency	Meter Reading	Factor	Emission Level	Limits	Margin	
(MHz)	(dBµV)	(dB)	(dBµV/m)	(dBµV/m)	(dB)	value Type
11650.042	46.18	9.62	53.55	74.00	-20.45	peak
11650.042	36.47	9.62	47.64	54.00	-6.36	AVG
17475.063	38.34	10.75	48.61	68.20	-25.39	peak
Remark:	- 64	0		~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~		
Factor = Ante	nna Factor + C	able Loss – Pr	e-amplifier.			
				8		
				(IV)		

Note: All test channels had been tested. The 802.11a20 is the worst case and recorded in the test report. Other frequencies radiation emission from 1GHz to 40GHz at least have 20dB margin and not recorded in the test report.

Factor = Antenna Factor + Cable loss - Amplifier gain, Margin= Level-Limit.

The "Factor" value can be calculated automatically by software of measurement system.

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13. BAND EDGE EMISSION

13.1. MEASUREMENT PROCEDURE

1. The EUT operates at transmitting mode. The operate channel is tested to verify the largest transmission and spurious emissions power at the continuous transmission mode.

2. Set the spectrum analyzer in the following setting in order to capture the lower and upper band-edges of the emission: (a) PEAK: RBW=1MHz, VBW=3MHz / Sweep=AUTO

(b) AVERAGE: RBW=1MHz ; VBW=3MHz/ Sweep=AUTO

3. Other procedures refer to clause 11.2.

Note:

1. Factor=Antenna Factor + Cable loss - Amplifier gain. Field Strength=Factor + Reading level

2. The factor had been edited in the "Input Correction" of the Spectrum Analyzer. So the Amplitude of test plots is equal to Reading level plus the Factor in dB. Use the A dB(μ V) to represent the Amplitude. Use the F dB(μ V/m) to represent the Field Strength. So A=F.

3. Only the data of band edge emission at the restricted band 4.5GHz-5.15GHz and 5.35GHz-5.46GHz record in the report. Other restricted band 7.25GHz-7.77GHz were considered as ambient noise. No recording in the test report.

13.2. TEST SET-UP



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13.3. TEST RESULT

EUT	ViewBoard Cast Button	Model Name	VS18188
Temperature	25°C	Relative Humidity	60%
Pressure	960hPa	Test Voltage	Normal Voltage
Test Mode	802.11a20 5180MHz	Antenna	Horizontal



PK Value

AV Value



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