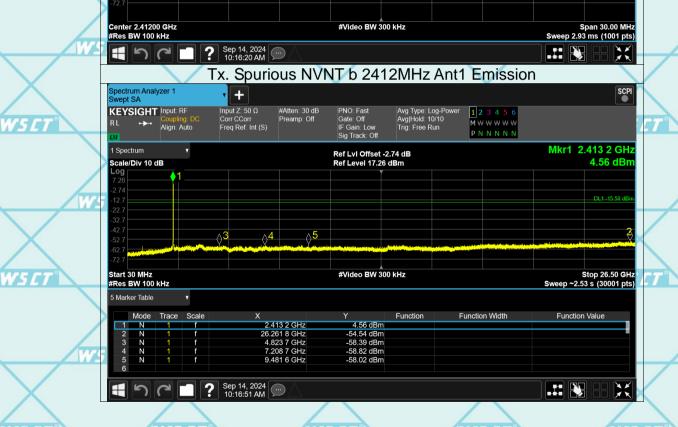




World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** Mahalalak W5 CI Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1 **Conducted RF Spurious Emission** Test Graphs Tx. Spurious NVNT b 2412MHz Ant1 Ref Spectrum Analyzer 1 Swept SA + Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF PNO: Fast Gate: Off IF Gain: Low Sig Track: Off Avg Type: Log-Powe Avg|Hold: 100/100 Trig: Free Run PNNNNN Mkr1 2.410 50 GHz Ref LvI Offset -2.74 dB Ref Level 17.26 dBm 4.50 dBm Scale/Div 10 dB

























Midulation World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** CCREDITED Mahalalaha W5CT Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1 Tx. Spurious NVNT ax20 2412MHz Ant1 Ref Spectrum Analyzer 1
Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) M ₩ ₩ ₩ ₩ Mkr1 2.410 74 GHz 0.90 dBm 1 Spectrum Ref Lvi Offset -2.74 dB Ref Level 17.26 dBm Scale/Div 10 dB

July Johnson July July #Video BW 300 kHz Center 2.41200 GHz #Res BW 100 kHz Span 30.00 MHz Sweep 2.93 ms (1001 pts) ? Sep 14, 2024 .... Tx. Spurious NVNT ax20 2412MHz Ant1 Emission Spectrum Analyzer 1 Swept SA SCPI **+** Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF #Atten: 30 dB Preamp: Off 1 2 3 4 5 6 Align: Auto Mkr1 2.416 7 GHz 1 Spectrum Ref Lvl Offset -2.74 dB Ref Level 17.26 dBm 0.54 dBm Scale/Div 10 dB DL1 -19.11 dB **⊘**2 **∂**5 Start 30 MHz #Res BW 100 kHz #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) 0.54 dBm -54.21 dBm -58.91 dBm -59.22 dBm -59.57 dBm 25.624 7 GHz 5.014 3 GHz 7.277 5 GHz 9.756 0 GHz ? Sep 14, 2024 .... 

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WSCT WSD

W5 CT



Midulation World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** CCREDITED Mahalalaha W5CT Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1 Tx. Spurious NVNT ax20 2462MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) M ₩ ₩ ₩ ₩ Mkr1 2.460 74 GHz 1.08 dBm 1 Spectrum Ref Lvi Offset -2.68 dB Ref Level 17.32 dBm Scale/Div 10 dB washing makalarah Mary Mary party property #Video BW 300 kHz Center 2.46200 GHz #Res BW 100 kHz Span 30.00 MHz Sweep 2.93 ms (1001 pts) Sep 14, 2024 .... Tx. Spurious NVNT ax20 2462MHz Ant1 Emission Spectrum Analyzer 1 Swept SA SCPI **+** Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF #Atten: 30 dB Preamp: Off 1 2 3 4 5 6 Align: Auto Mkr1 2.469 7 GHz 1 Spectrum Ref Lvl Offset -2.68 dB Ref Level 17.32 dBm -1.44 dBm Scale/Div 10 dB #Video BW 300 kHz Stop 26.50 GHz Sweep ~2.53 s (30001 pts) Start 30 MHz #Res BW 100 kHz -1.44 dBm

-54.68 dBm -58.71 dBm -59.27 dBm -59.55 dBm ? Sep 14, 2024 .... 

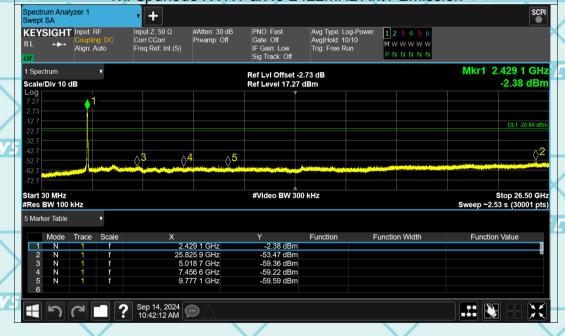
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V5 CI

Midulation World Standardization Certification & Testing Group (Shenzhen) Co., ltd. **ac-MRA** CCREDITED Mahalalaha W5CT Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1 Tx. Spurious NVNT ax40 2422MHz Ant1 Ref Spectrum Analyzer 1 Swept SA SCPI + KEYSIGHT Input: RF Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) Mkr1 2.424 52 GHz 1 Spectrum Ref Lvi Offset -2.73 dB Ref Level 17.27 dBm -0.84 dBm Scale/Div 10 dB Warder William Contract #Video BW 300 kHz Center 2.42200 GHz #Res BW 100 kHz Span 60.00 MHz Sweep 5.80 ms (1001 pts) ? Sep 14, 2024 .... Tx. Spurious NVNT ax40 2422MHz Ant1 Emission Spectrum Analyzer 1 Swept SA SCPI **+** Input Z: 50 Ω Corr CCorr Freq Ref: Int (S) KEYSIGHT Input: RF #Atten: 30 dB Preamp: Off 1 2 3 4 5 6 Align: Auto



## SET ## WSET ## WSET











Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

## 6.6. Radiated Spurious Emission Measurement

6.6.	1. Test Sp	ecification	on
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Test Requirement:	FCC Part15 C Section 15.209
Test Method: 5 [7]	ANSI C63.10: 2014 W5 [T]
Frequency Range:	9 kHz to 25 GHz
Measurement Distance:	3 m
AMERICA NAME OF	The singular CANAGE STE

Antenna Polarization: Horizontal & Vertical

Operation mode: Transmitting mode with modulation

	Frequency	Detector	RBW	VBW	Remark
W5CT"	9kHz- 150kHz	Quasi-peak	200Hz	1kHz	Quasi-peak Value
	150kHz-	Quasi-peak	9kHz	30kHz	Quasi-peak Value
Receiver Setup:	30MHz				
	30MHz-1GHz	Quasi-peak	100KHz	300KHz	Quasi-peak Value
	A h a v a 4 C L l=	Peak	1MHz	3MHz	Peak Value
WSCT WSC	Above 1GHz	Peak	1MHz	10Hz	Average Value

	Frequency	Field Strength	Measurement
	riequency	(microvolts/meter)	Distance (meters)
	0.009-0.490	2400/F(KHz)	300
W5 CT	0.490-1.705	24000/F(KHz)	305 [ ]
	1.705-30	30	30
X	30-88	100	3
	88-216	150	3
WEET	216-960	200	3
WE14	Above 960	500	3

Frequency	Field Strength (microvolts/meter)	Measurement Distance (meters)	Detector
Ab 2002 400 lb	500	3	Average
Above 1GHz	5000	3	Peak

For radiated emissions below 30MHz

Test setup:

Limit:

W5E W5C1

Computer Pre -Amplifier EUT Ground Plane

30MHz to 1GHz

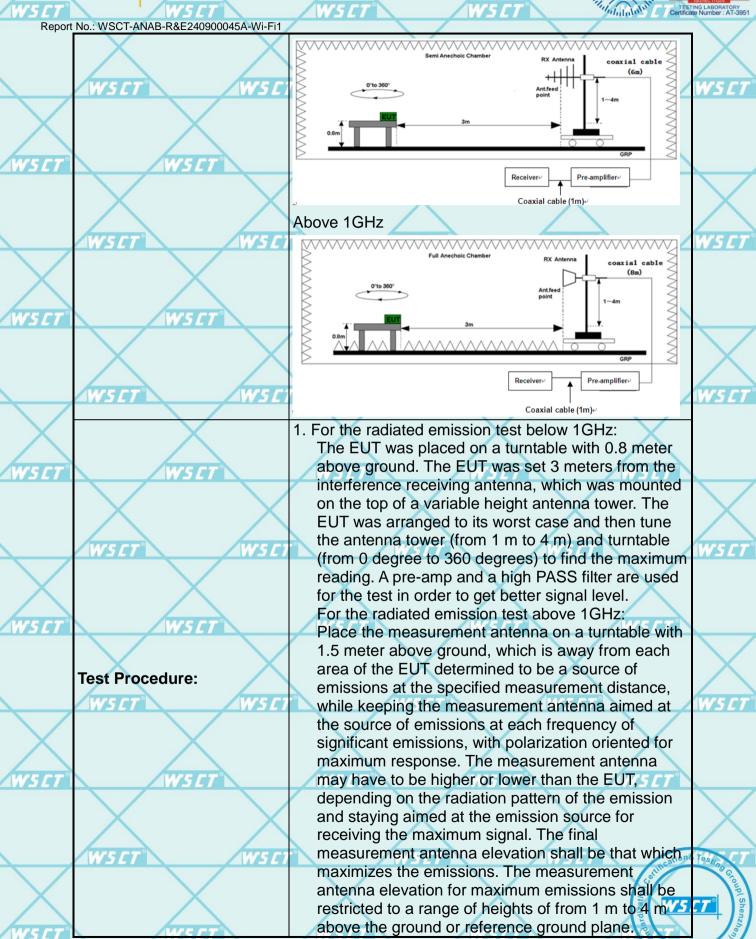
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W5 C1

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Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Test results: /5 [7]

3. Corrected Reading: Antenna Factor + Cable Loss + Read Level - Preamp Factor = Level

4. For measurement below 1GHz, If the emission level of the EUT measured by the peak detector is 3 dB lower than the applicable limit, the peak emission level will be reported. Otherwise, the emission measurement will be repeated using the quasi-peak detector and reported.

5. Use the following spectrum analyzer settings:

(1) Span shall wide enough to fully capture the emission being measured;

(2) Set RBW=100 kHz for f < 1 GHz; VBW ≥RBW; Sweep = auto; Detector function = peak; Trace = max hold;

(3) Set RBW = 1 MHz, VBW= 3MHz for f 1 GHz for peak measurement.

For average measurement: VBW = 10 Hz, when duty cycle is no less than 98 percent. VBW ≥ 1/T, when duty cycle is less than 98 percent where T is the minimum transmission duration over which the transmitter is on and is transmitting at its maximum power control level for the tested mode of operation.

PASS

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WSCT WSCT WSCT WSCT WSCT

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## 6.6.2. Test Data(worst case)

Please refer to following diagram for individual The worst mode is 11b

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**Below 1GHz** 



**W5 CT** °

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No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)	Limit (dBuV/m)	Margin (dB)	Detector	
1	35.4371	43.80	-19.47	24.33	40.00	-15.67	QP	1
2	71.4865	41.65	-22.47	19.18	40.00	-20.82	QP	
3	81.8909	40.55	-24.08	16.47	40.00	-23.53	QP	
4	138.5694	47.54	-20.00	27.54	43.50	-15.96	QP	1
5 *	253.9480	55.06	-21.63	33.43	46.00	-12.57	QP	
6	445.2416	43.51	-16.42	27.09	46.00	-18.91	QP	

(MHz)

300.00

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WSET WSET WSET WSET

WSET WSET WSET WSET

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Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Vertical:

W5 CT W5 CT

87.0 dBuV/m W5 CI 77 67 FCC Part15 RE-Class B\_30-1000MHz 57 Margin -6 dB 47 37 27 17 7 -3 WS ET -13 -23 -33 30.000 1000.000 60.00 (MHz) 300.00

4000	- 0 h
	/

No.	Frequency (MHz)	Reading (dBuV)	Factor (dB/m)	Level (dBuV/m)		Margin (dB)	Detector
1 *	35.8746	53.62	-19.45	34.17	40.00	-5.83	QP
2	71.2988	47.19	-22.43	24.76	40.00	-15.24	QP
3	81.4613	50.53	-24.08	26.45	40.00	-13.55	QP
4	100.7571	47.89	-23.58	24.31	43.50	-19.19	QP
5	165.9225	42.10	-20.06	22.04	43.50	-21.46	QP
6	445.6321	45.20	-16.41	28.79	46.00	-17.21	QP

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Note1:

Freq. = Emission frequency in MHz

Reading level (dBµV) = Receiver reading

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Corr. Factor (dB) = Antenna factor + Cable loss - Amplifier factor.

Measurement  $(dB\mu V)$  = Reading level  $(dB\mu V)$  + Corr. Factor (dB)

Limit (dBµV) = Limit stated in standard

Margin (dB) = Measurement (dB $\mu$ V) – Limits (dB $\mu$ V)

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World Standard gation Certification & Testing Group( Shenzhen) Co

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## **Above 1GHz**

Note 1: The marked spikes near 2400 MHz with circle should be ignored because they are Fundamental signal.

W5 CT

Note 2: The spurious above 18G is noise only, do not show on the report.

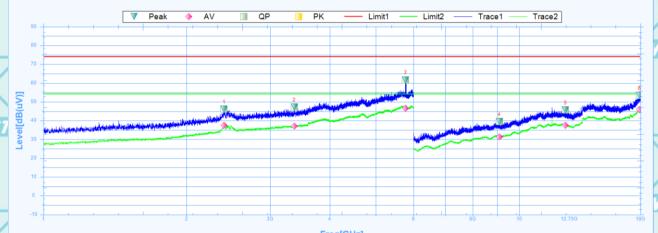
Note 3: Report and only recorded the worst-case scenario "MIMO Mode 802.11b".

1 GHz to 18 GHz, MIMO Mode 802.11b Low Channel

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Horizontal:

W5 CT



Freq[GHz]

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4	/ 4	7/

7	Suspu	ited Data Lis	ST.									
Ż	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict	
	1	2398.7500	46.17	27.26	18.91	74	-27.83	11.4	Horizontal	PK	Pass	
	1	2398.7500	37.51	27.26	10.25	54	-16.49	11.4	Horizontal	AV	Pass	1
	2	3370.0000	47.12	28.42	18.7	74	-26.88	195.2	Horizontal	PK	Pass	7
	2	3370.0000	37.11	28.42	8.69	54	-16.89	195.2	Horizontal	AV	Pass	4
/	3	5773.1250	61.68	32.44	29.24	74	-12.32	147.4	Horizontal	PK	Pass	
	3	5773.1250	46.59	32.44	14.15	54	-7.41	147.4	Horizontal	AV	Pass	
1	4	9090.0000	39.41	9.91	29.5	74	-34.59	22.4	Horizontal	PK	Pass	
7	4	9090.0000	31.29	9.91	21.38	54	-22.71	22.4	Horizontal	AV	Pass	
	5	12525.0000	45.58	16.38	29.2	74	-28.42	263.8	Horizontal	PK	Pass	
	5	12525.0000	37.41	16.38	21.03	54	-16.59	263.8	Horizontal	AV	Pass	
	6	17923.5000	53.32	23.41	29.91	74	-20.68	263.8	Horizontal	PK	Pass	1
	6	17923.5000	45.93	23.41	22.52	54	-8.07	263.8	Horizontal	AV	Pass	,

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Verdict

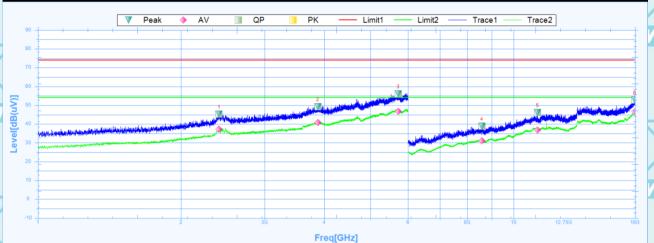
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WSU WSU

WSET

Vertical:



Susputed Data List Reading **Factor** Level Limit Margin Deg NO. **Polarity** Trace [MHz] [dB(uV)] [dB] [dB(uV)] [dB] [dB] [°] 2403.7500 45.27 74 27.27 18 -28.73 37.5 Vertical PK 2403.7500 37.24 27.27 9.97 54 -16.76 37.5 ΑV Vertical 3878.1250 49.28 29.41 19.87 74 -24.72 167.8 Vertical PK 40.93 54 -13.07 3878.1250 29.41 11.52 167.8 Vertical ΑV 56.07 32.36 23.71 74 -17.93 PK 3 5726.2500 59 Vertical 5726.2500 46.87 32.36 54 -7.13 59 14.51 Vertical ΑV 4 8577.0000 38.88 9.31 29.57 74 -35.12 266.2 Vertical PK 8577.0000 31.05 9.31 21.74 54 -22.95 266.2 ΑV Vertical -27.8 5 11235.0000 46.2 15.69 30.51 74 335.6 PK Vertical 36.74 15.69 -17.26 11235.0000 21.05 54 335.6 Vertical ΑV

28.89

22.81

W5 CT	WSET	W5 CT	WSET	WS CT

WSCT WSCT WSCT WSCT WSCT

74

54

-21.31

-7.39

341.8

341.8

Vertical

Vertical

PK

ΑV

WSCT WSCT WSCT WSCT WSCT

WSCT WSCT WSCT WSCT

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Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1 1 GHz to 18 GHz, MIMO Mode 802.11b Middle Channel

Horizontal:

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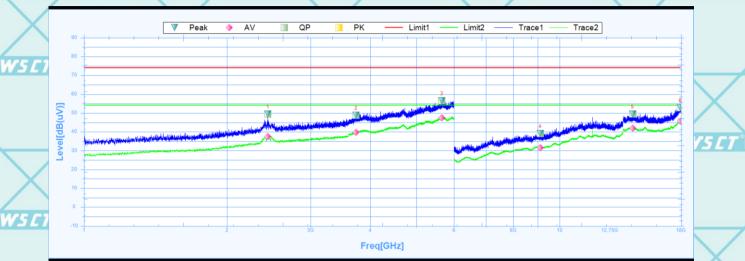
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WSET

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ľ	Suspu	ited Data Lis	t								
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
	1	2436.8750	49.52	27.39	22.13	74	-24.48	15	Horizontal	PK	Pass
	1	2436.8750	37.41	27.39	10.02	54	-16.59	15	Horizontal	AV	Pass
L	2	3735.6250	48.84	29.07	19.77	74	-25.16	279	Horizontal	PK	Pass
	2	3735.6250	39.62	29.07	10.55	54	-14.38	279	Horizontal	AV	Pass
	3	5656.8750	56.48	32.25	24.23	74	-17.52	53.1	Horizontal	PK	Pass
	3	5656.8750	47.52	32.25	15.27	54	-6.48	53.1	Horizontal	AV	Pass
	4	9108.0000	39.05	9.95	29.1	74	-34.95	84.6	Horizontal	PK	Pass
	4	9108.0000	31.48	9.95	21.53	54	-22.52	84.6	Horizontal	AV	Pass
	5	14244.0000	49.41	18.87	30.54	74	-24.59	263.8	Horizontal	PK	Pass
	5	14244.0000	42.02	18.87	23.15	54	-11.98	263.8	Horizontal	AV	Pass
	6	17947.5000	52.74	23.56	29.18	74	-21.26	187.4	Horizontal	PK	Pass
L	6	17947.5000	45.57	23.56	22.01	54	-8.43	187.4	Horizontal	AV	Pass

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WS ET

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Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Vertical:

VSCT WSCT

Peak AV QP PK Limit1 Limit2 Trace1 Trace2

5 C 1			WELT		WEL		W	C/T		WE	rr°\
	Suspu	Susputed Data List					Columbia   Columbia				
	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]		Polarity	Trace	Verdict
	1	2425.0000	45.82	27.35	18.47	74	-28.18	288	Vertical	PK	Pass
	1	2425.0000	36.39	27.35	9.04	54	-17.61	288	Vertical	AV	Pass
	2	3402.5000	50.18	28.44	21.74	74	-23.82	327.4	Vertical	PK	Pass
X	2	3402.5000	36.87	28.44	8.43	54	-17.13	327.4	Vertical	AV	Pass
	3	5969.3750	56.85	32.75	24.1	74	-17.15	166.1	Vertical	PK	Pass
S C I	3	5969.3750	46.65	32.75	13.9	54	-7.35	166.1	Vertical	AV	Pass
	4	9268.5000	39.69	10.28	29.41	74	-34.31	39.9	Vertical	PK	Pass
	4	9268.5000	31.35	10.28	21.07	54	-22.65	39.9	Vertical	AV	Pass
	5	11935.5000	45.62	16.63	28.99	74	-28.38	0.5	Vertical	PK	Pass
	5	11935.5000	37.98	16.63	21.35	54	-16.02	0.5	Vertical	AV	Pass
	6	17953.5000	53.85	23.6	30.25	74	-20.15	268.2	Vertical	PK	Pass
	6	17953.5000	45.79	23.6	22.19	54	-8.21	268.2	Vertical	AV	Pass

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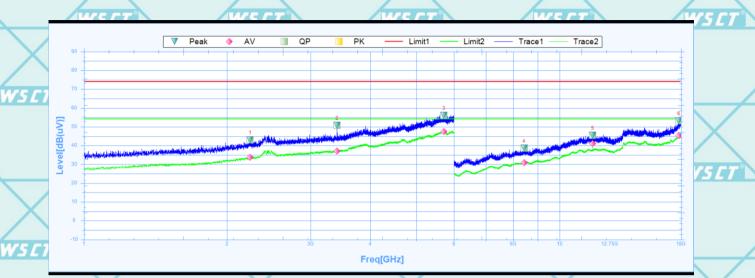




Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

1 GHz to 18 GHz, MIMO Mode 802.11b High Channel

Horizontal:



**W5 CT** 1

W5 CT

		X				X					
Susputed Data List											
_	NO.	Freq. [MHz]	Reading [dB(uV)]	Factor [dB]	Level [dB(uV)]	Limit [dB]	Margin [dB]	Deg [°]	Polarity	Trace	Verdict
/	1	2236.2500	43.08	26.7	16.38	74	-30.92	242.5	Horizontal	PK	Pass
\	1	2236.2500	33.72	26.7	7.02	54	-20.28	242.5	Horizontal	AV	Pass
	2	3406.8750	50.76	28.44	22.32	74	-23.24	0	Horizontal	PK	Pass
Ż	2	3406.8750	37.09	28.44	8.65	54	-16.91	0	Horizontal	AV	Pass
	3	5716.8750	56.01	32.35	23.66	74	-17.99	359	Horizontal	PK	Pass
	3	5716.8750	47.4	32.35	15.05	54	-6.6	359	Horizontal	AV	Pass
	4	8424.0000	38.7	9.12	29.58	74	-35.3	1.5	Horizontal	PK	Pass
	4	8424.0000	30.97	9.12	21.85	54	-23.03	1.5	Horizontal	AV	Pass
	5	11745.0000	45.4	16.11	29.29	74	-28.6	166.7	Horizontal	PK	Pass
/	5	11745.0000	41.15	16.11	25.04	54	-12.85	166.7	Horizontal	AV	Pass
\	6	17823.0000	53.22	22.77	30.45	74	-20.78	81.8	Horizontal	PK	Pass
	6	17823.0000	45.17	22.77	22.4	54	-8.83	81.8	Horizontal	AV	Pass

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World Standard Fation Certification & Testing Group (Shenzhen) Co.,Lt

2 26996053 26996144 FAX: 0086-755-86376605 E-mail: fengbing.wang@wsct-cert.com Http: www.wsct-cert.com Page 110 ation& Testin

W5C1



World Standardization Certification & Testing Group (Shenzhen) Co., ltd.

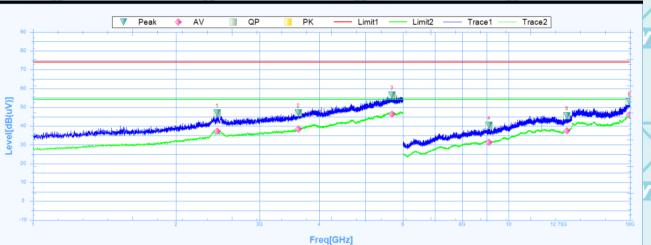




Report No.: WSCT-ANAB-R&E240900045A-Wi-Fi1

Vertical:

PK Limit1 Limit2



Susputed Data List Reading **Factor** Level Limit Margin Deg Freq. NO. **Polarity** Trace Verdict [MHz] [dB(uV)] [dB] [dB(uV)] [dB] [dB] [°] 2438.7500 46.96 27.39 19.57 74 -27.04 145.7 Vertical PK Pass 2438.7500 37.24 27.39 9.85 -16.76 145.7 Pass 54 Vertical ΑV 3614.3750 46.92 28.77 18.15 74 -27.08 0.1 Vertical PK Pass 2 3614.3750 38.33 9.56 54 -15.67 0.1 28.77 Vertical ΑV Pass 32.3 74 90.7 PK

Pass 3 5688.1250 -17.58 56.42 24.12 Vertical 3 5688.1250 46.39 32.3 14.09 54 -7.6190.7 Vertical ΑV Pass 4 9099.0000 40.35 9.93 30.42 74 -33.65 25.6 Vertical PK Pass 4 9099.0000 31.32 9.93 21.39 54 -22.68 25.6 Pass Vertical ΑV 5 13261.5000 45.45 16.94 28.51 74 -28.55 360 Vertical PK Pass 5 37.55 54 13261.5000 16.94 20.61 -16.45 360 ΑV Pass Vertical 6 17959.5000 52.88 23.64 29.24 74 -21.12 106.9 PK Vertical Pass

54

-8.08

106.9

Vertical

ΑV

Pass

## Note:

17959.5000

45.92

6

1. All emissions not reported were more than 20dB below the specified limit or in the noise floor.

22.28

2. Emission Level= Reading Level+ Probe Factor +Cable Loss.

23.64

3. Data of measurement within this frequency range shown "--" in the table above means the reading of emissions are attenuated more than 20dB below the permissible limits or the field strength is too small to be measured.

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