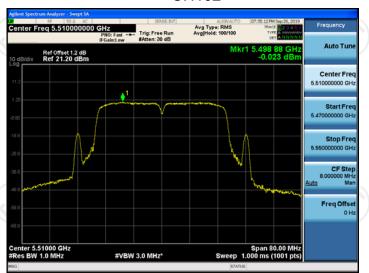


11ac(VHT40)

CH102



CH118



CH142



Report No.: TCT190910E038

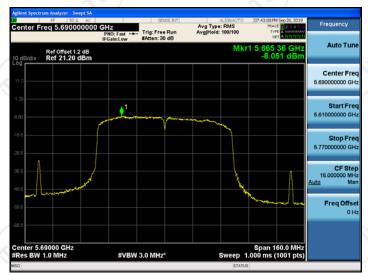


11ac(VHT80)

CH106



CH138



Report No.: TCT190910E038



Band 3 (5745-5825MHz)

11a

CH149



CH157



CH165





11n(HT20) CH149

Report No.: TCT190910E038



CH157



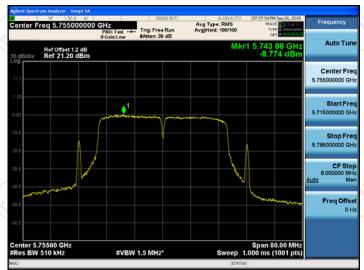
CH165



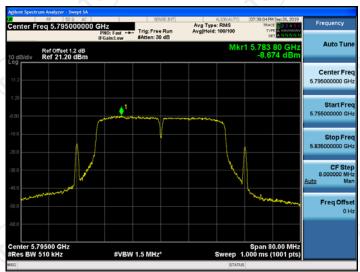


11n(HT40) CH151





CH159



11ac(VHT20)

CH149

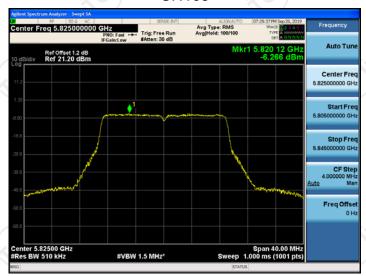




CH157



CH165



11ac(VHT40)

CH151





CH159



11ac(VHT80)

CH155





6.7. Band edge

6.7.1. Test Specification

Test Requirement:	FCC CFR47 Part 15E Section 15.407
Test Method:	ANSI C63.10 2013
Limit:	For Band 1&2A&2C: E[dBμV/m] = EIRP[dBm] + 95.2=68.2 dBμV/m, for EIRP(dBm)= -27dBm For Band 3(5715-5725MHz&5850-5860MHz): E[dBμV/m] = EIRP[dBm] + 95.2=78.2 dBμV/m, for EIRP(dBm)= -17dBm; For Band 3(other un-restricted band):E[dBμV/m] = EIRP[dBm] +
Test Setup:	95.2=68.2 dBµV/m, for EIRP(dBm)= -27dBm Second Reference Plane Test Receiver Test Recei
Test Mode:	Transmitting mode with modulation
Test Procedure:	 The EUT was placed on the top of a rotating table 0.8 meters above the ground at a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation. The EUT was set 3 meters away from the interference-receiving antenna, which was mounted on the top of a variable-height antenna tower. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement. For each suspected emission, the EUT was arranged to its worst case and then the antenna was tuned to heights from 1 meter to 4 meters and the rota table was turned from 0 degrees to 360 degrees to find the maximum reading. The test-receiver system was set to Peak Detect Function and Specified Bandwidth with Maximum Hold Mode. If the emission level of the EUT in peak mode was 10dB lower than the limit specified, then testing could be stopped and the peak values of the EUT would be reported. Otherwise the emissions that did not have 10dB margin would be re-tested one by one using peak,



TESTIN	NG CENTRE TECHNOLO	quasipe	ak or avera	ge method sheet.	as specified	<u>t No.: TCT190910</u> and then	UEU38
Test Result:		PASS					





6.7.2. Test Instruments

	Radiated En	nission Test Sit	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 29, 2020
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2020
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2020
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 08, 2020
Pre-amplifier	HP	8447D	2727A05017	Sep. 08, 2020
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 20, 2019
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 06, 2020
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 06, 2020
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 06, 2020
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 08, 2020
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 08, 2020
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.7.3. Test Data

Report No.: TCT190910E038

802.11 a	СН	Freq. (MHz)	Read_level (dBuV/m)	Factor (dB)	Peak (dBuV/m)	Limit (dBuV/m) (Peak)	Limit (dBuV/m) (Avg)	Over	Ant. Pol. H/V
	Lawast	5150	43.25	5.82	49.07	68.2	54	-4.93	Н
Band 1	Lowest	5150	38.65	5.82	44.47	68.2	54	-9.53	V
& Band 2A	Llighoot	5350	42.26	6.52	48.78	68.2	54	-5.22	Н
	Highest	5350	39.62	6.52	46.14	68.2	54	-7.86	V
							Z)		
	Lowest	5470	43.68	5.82	49.50	68.2	54	-4.50	Н
Band 2C &	Lowest	5470	38.21	5.82	44.03	68.2	54	-9.97	V
Dand 2	Lighoot	5850	46.38	6.52	52.90	68.2	54	-1.10	Н
	Highest	5850	42.68	6.52	49.20	68.2	54	-4.80	V
Remark:	Factor(dB)	=Ant. Fac	ctor+Cable Los	ss-Amp. F	actor)	N.	3)	

802.11 n HT20	СН	Freq. (MHz)	Read_level (dBuV/m)	Factor (dB)	Peak (dBuV/m)	Limit (dBuV/m) (Peak)	Limit (dBuV/m) (Avg)	Over	Ant. Pol. H/V
	Lowest	5150	45.26	6.96	52.22	68.2	54	-1.78	Н
Band 1	Lowest	5150	41.35	6.96	48.31	68.2	54	-5.69	V
&Band 2A	Clinkant	5350	43.24	8.21	51.45	68.2	54	-2.55	Н
	Highest	5350	39.25	8.21	47.46	68.2	54	-6.54	V
	Lowest	5470	43.24	8.21	51.45	78.2	54	-2.55	Н
Band	Lowest	5470	43.24	8.21	51.45	78.2	54	-2.55	V
2C & Band 3	I liada a at	5850	42.26	8.87	51.13	78.2	54	-2.87	Н
2574 0	Highest	5850	40.28	8.87	49.15	78.2	54	-4.85	V

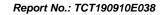


802.11 n HT40	СН	Freq. (MHz)	Read_level (dBuV/m)	Factor (dB)	Peak (dBuV/m)	Limit (dBuV/m) (Peak)	Limit (dBuV/m) (Avg)	Over	Ant. Pol. H/V
	Lowest	5150	43.69	5.82	49.51	68.2	54	-4.49	Н
Band 1	Lowest	5150	38.77	5.82	44.59	68.2	54	-9.41	V
&Band 2A	Highoot	5350	42.38	6.52	48.90	68.2	54	-5.10	Н
	Highest	5350	39.74	6.52	46.26	68.2	54	-7.74	V
·/ .		5470	43.8	5.82	49.62	68.2	54	-4.38	Н
Band	Lowest	5470	38.33	5.82	44.15	68.2	54	-9.85	V
2C & Band 3	11. 1	5850	45.36	6.52	51.88	68.2	54	-2.12	Н
Bana 0	Highest	5850	42.8	6.52	49.32	68.2	54	-4.68	V
Remark:	Factor(dB)	=Ant. Fac	tor+Cable Los	ss-Amp. F	actor	Ž(<u> </u>	
802.11 ac HT20	СН	Freq. (MHz)	Read_level (dBuV/m)	Factor (dB)	Peak (dBuV/m)	Limit (dBuV/m) (Peak)	Limit (dBuV/m) (Avg)	Over	Ant. Pol. H/V
	Lavorat	5150	45.38	6.96	52.34	68.2	54	-1.66	H
Band 1	Lowest	5150	41.47	6.96	48.43	68.2	54	-5.57	V
&Band 2A	Llighoot	5350	43.36	8.21	51.57	68.2	54	-2.43	H
	Highest	5350	39.25	8.21	47.46	68.2	54	-6.54	V
						X \			
	Lowest	5470	43.24	8.21	51.45	78.2	54	-2.55	Н
Band 2C &	Lowest	5470	43.24	8.21	51.45	78.2	54	-2.55	V
Band 3	Highost	5850	42.26	8.87	51.13	78.2	54	-2.87	Н
	Highest	5050	40.28	8.87	49.15	78.2	54	-4.85	V
		5850	40.20	0.01	49.10	70.2	J 4	-4.00	V

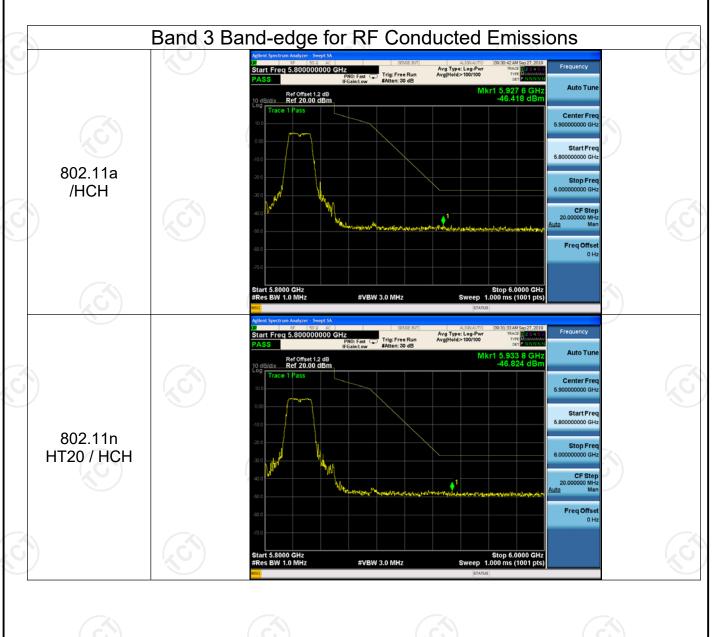
Band 1 & Band 2A Lowest 5150 38.98 5.82 44.80 68.2 54 -9.20 Highest 2A Highest 3550 42.59 6.52 49.11 68.2 54 -4.89 Band 2C & Band 3 Lowest 3640 5470 44.01 5.82 49.83 68.2 54 -4.17 Highest 3640 45.57 6.52 52.09 68.2 54 -9.64 -9.64 -1.91 -1.91 -1.91 -1.91 -1.91	802.11 ac HT40	СН	Freq. (MHz)	Read_level (dBuV/m)	Factor (dB)	Peak (dBuV/m)	Limit (dBuV/m) (Peak)	Limit (dBuV/m) (Avg)	Over	Ant. Pol. H/V
Band 2A Highest 5150 38.98 5.82 44.80 68.2 54 -9.20 Highest 5350 42.59 6.52 49.11 68.2 54 -4.89 5350 39.95 6.52 46.47 68.2 54 -7.53 Band 2C & Band 3 Highest 5850 45.57 6.52 52.09 68.2 54 -1.91 5850 43.01 6.52 49.53 68.2 54 -4.47		Lowest	5150	43.9	5.82	49.72	68.2	54	-4.28	Н
2A Highest 5350 42.59 6.52 49.11 68.2 54 -4.89 5350 39.95 6.52 46.47 68.2 54 -7.53 54 54.00 54.00 54.00 54.00 54.00 54.00 54.00 58.2 49.83 68.2 54 -4.17 54.00 54.00 54.00 58.2 44.36 68.2 54 -9.64 58.00 58.00 58.00 58.00 58.00 58.00 58.00 54.00 58.00 58.00 58.00 58.00 58.00 58.00 58.00 58.00 58.00 58.00 58.00 58.00 54.00 58.00 58.00 54.00 58		Lowest	5150	38.98	5.82	44.80	68.2	54	-9.20	V
Band 2C & Band 3 Highest 5850 45.57 6.52 49.83 68.2 54 -7.53 Highest 5350 39.95 6.52 46.47 68.2 54 -7.53 Lowest 5470 44.01 5.82 49.83 68.2 54 -4.17 5470 38.54 5.82 44.36 68.2 54 -9.64 -9.64 -9.64 -9.64 -1.91 -9.64		Llighoot	5350	42.59	6.52	49.11	68.2	54	-4.89	Н
Band 2C & Band 3 Highest 5470 38.54 5.82 44.36 68.2 54 -9.64 5850 45.57 6.52 52.09 68.2 54 -1.91 5850 43.01 6.52 49.53 68.2 54 -4.47	·) - · ·	nignesi	5350	39.95	6.52	46.47	68.2	54	-7.53	V
Band 2C & Band 3 Lowest 5470 38.54 5.82 44.36 68.2 54 -9.64 Highest 5850 45.57 6.52 52.09 68.2 54 -1.91 5850 43.01 6.52 49.53 68.2 54 -4.47										
Band 2		Lowest	5470	44.01	5.82	49.83	68.2	54	-4.17	Н
Band 3 Highest 5850 45.57 6.52 52.09 68.2 54 -1.91 5850 43.01 6.52 49.53 68.2 54 -4.47		Lowest	5470	38.54	5.82	44.36	68.2	54	-9.64	V
5850 43.01 6.52 49.53 68.2 54 -4.47		I limboot	5850	45.57	6.52	52.09	68.2	54	-1.91	Н
Remark: Factor(dB)=Ant. Factor+Cable Loss-Amp. Factor		nignest	5850	43.01	6.52	49.53	68.2	54	-4.47	V
	Remark:	Factor(dB)	=Ant. Fac	tor+Cable Los	ss-Amp. F	actor				

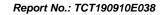


	TESTING	CENTRE TEC	HNOLOGY				Report No.: To	CT190910E	E038
802.11 ac HT80	СН	Freq. (MHz)	Read_level (dBuV/m)	Factor (dB)	Peak (dBuV/m)	Limit (dBuV/m) (Peak)	Limit (dBuV/m) (Avg)	Over	Ant. Pol. H/V
	Lowest	5150	45.59	6.96	52.55	68.2	54	-1.45	Н
Band 1	Lowest	5150	41.68	6.96	48.64	68.2	54	-5.36	V
&Band 2A	Highoot	5350	43.57	8.21	51.78	68.2	54	-2.22	Н
	Highest	5350	39.58	8.21	47.79	68.2	54	-6.21	V
		5470	43.57	8.21	51.78	78.2	54	-2.22	Н
Band	Lowest	5470	43.57	8.21	51.78	78.2	54	-2.22	V
2C & Band 3	Llighoot	5850	42.59	8.87	51.46	78.2	54	-2.54	Н
Dana o	Highest	5850	40.61	8.87	49.48	78.2	54	-4.52	V
Remark:	Factor(dB)	=Ant. Fac	tor+Cable Los	ss-Amp. F	actor	X 1		7	

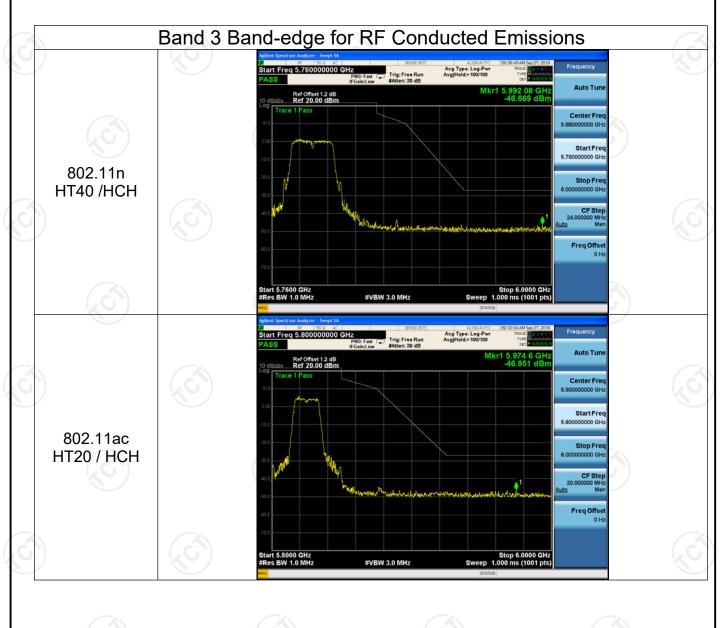


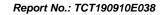




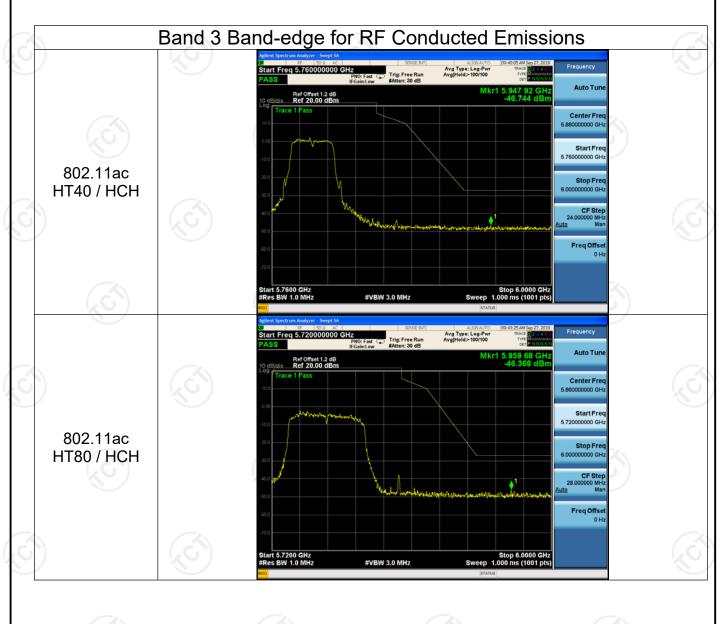














6.8. Spurious Emission

6.8.1. Restrict Bands Measurement

6.8.1.1. Test Specification

Test Requirement:	FCC CFR47	Part 15 Se	ection 15.	.407 & 15	5.209 & 15.205			
Test Method:	FCC CFR47 Part 15 Section 15.407 & 15.209 & 15.205 KDB 789033 D02 v02r01							
Frequency Range:	Band 1 & 2A: 4.5 GHz to 5.15 GHz and 5.35GHz to 5.46GHz Band 2C &3: 5.35 GHz to 5.46 GHz							
Measurement Distance:	3 m Horizontal & Vertical Transmitting mode with modulation Frequency Detector RBW VBW Remark							
Antenna Polarization:								
Operation mode:								
	Frequency	Detector	RBW	VBW	Remark			
Receiver Setup:	Above 1GHz	Peak	1MHz	3MHz	Peak Value			
Neceiver Setup:	Above 1912	RMS	1MHz	3MHz	Average Value			
				(¿Ġ`)				
Limit:	Frequency	Limit (dBuV/m @3m)	Rem	ark				
	Above 1GHz	74	Peak \					
		54	Average	value				
Test setup:		Test Receive	3m und Reference Plane	Pre- Controller	nna Tower			
Test Procedure:	D02 Genevolve V02r01. Some as urer 2. For the race The EUT above grown interference on the top EUT was	eral UNII Te section G) to ment. diated emise was placed ound. The force ce receiving of a varia arranged t	est Proce Jnwanted ssion test d on a tu EUT was ng antenr ble heigh to its wor	edures N d emission t below 1 rntable w set 3 me na, which nt antenn st case a	ons			



(from 0 degree to 360 degrees) to find the maximum reading. A pre-amp and a high PASS filter are used for the test in order to get better signal level. For the radiated emission test above 1GHz: Place the measurement antenna on a turntable with 1.5 meter above ground, which is 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.

- 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. (4) A 5.8GHz high –PASS filter is used druing radiated emissions above 1GHz measurement.

Test results:

PASS



6.8.1.1 Test Instruments

Report No.: TCT190910E038

	Radiated En	nission Test Sit	e (966)	
Name of Equipment	Manufacturer	Model	Serial Number	Calibration Due
Test Receiver	ROHDE&SCHW ARZ	ESIB7	100197	Jul. 29, 2020
Spectrum Analyzer	ROHDE&SCHW ARZ	FSQ40	200061	Sep. 11, 2020
Spectrum Analyzer	Agilent	N9020A	MY49100619	Sep. 11, 2020
Pre-amplifier	EM Electronics Corporation CO.,LTD	EM30265	07032613	Sep. 08, 2020
Pre-amplifier	HP	8447D	2727A05017	Sep. 08, 2020
Loop antenna	ZHINAN	ZN30900A	12024	Oct. 20, 2019
Broadband Antenna	Schwarzbeck	VULB9163	340	Sep. 06, 2020
Horn Antenna	Schwarzbeck	BBHA 9120D	631	Sep. 06, 2020
Horn Antenna	A-INFO	LB-180400-KF	J211020657	Sep. 06, 2020
Coax cable (9KHz-40GHz)	тст	RE-high-02	N/A	Sep. 08, 2020
Coax cable (9KHz-40GHz)	тст	RE-high-04	N/A	Sep. 08, 2020
Antenna Mast	Keleto	CC-A-4M	N/A	N/A
EMI Test Software	Shurple Technology	EZ-EMC	N/A	N/A

Note: The calibration interval of the above test instruments is 12 months and the calibrations are traceable to international system unit (SI).

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6.8.1.2 Test Data

Postrict hand around fundamental

			Restric	ct band aro	una tunaa	mentai						
	11a CH36: 5180MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emissic Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
5142.20	Н	42.52		5.79	48.31		74	54	-5.69			
5150.00	C H	39.79	70	5.82	45.61		74	54	-8.39			
5142.20	V	40.08		5.79	45.87		74	54	-8.13			
5150.00	V	41.61		5.82	47.43		74	54	-6.57			
				11a CH64:	5320MHz							
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
5337.50	Н	41.43		5.85	47.28		74	54	-6.72			
5360.00	Н	39.65		5.91	45.56		74	54	-8.44			
5342.90	V	43.01		5.86	48.87		74	54	-5.13			
5360.00	V	38.39	(- c)	5.91	44.30		74	54	-9.70			

			KO)						
			111	n (HT20) Ch	H36: 5180M	1Hz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (DbµV)	AV reading (dBuV)	Correction Factor (Db/m)	Emission Peak (DbµV/m)	AV (DbµV/m)	Peak limit (DbµV/m)	AV limit (DbµV/m)	Margin (Db)
5142.20	Н	43.36		5.79	49.15		74	54	-4.85
5150.00	Н	41.57		5.82	47.39		74	54	-6.61
5142.20	V	40.89		5.79	46.68		74	54	-7.32
5150.00	V	42.28		5.82	48.10		74	54	-5.90
			11ı	n (HT20) Ch	H64: 5320N	1Hz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (DbµV)	AV reading (DbµV)	Correction Factor (Db/m)	Emission Peak (DbµV/m)	AV (DbµV/m)	Peak limit (DbµV/m)	AV limit (DbµV/m)	Margin (Db)
5334.20	Н	42.97		5.85	48.82		74	54	-5.18
5360.00	Н	40.51		5.91	46.42		74	54	-7.58
5337.70	٧	39.25		5.86	45.11		74	54	-8.89
5360.00	V	40.56		5.91	46.47		74	54	-7.53
			11	n(HT40) Ch	138: 5190M	Hz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
5135.98	, G H	45.11	(,0)	5.80	50.91	<u> </u>	74	54	-3.09
5150.00	Н	43.77		5.82	49.59		74	54	-4.41
5135.98	V	42.59		5.80	48.39		74	54	-5.61
5150.00	V	40.54		5.82	46.36		74	54	-7.64
			11	n(HT40) Ch	H62: 5310M	Hz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
5334.60	Н	43.82		5.86	49.68		74	54	-4.32
5360.00	Н	42.43		5.91	48.34		74	54	-5.66
5331.4	V	41.85	+(\)	5.85	47.70		74	54	-6.30
5360.00	V	40.67	70	5.91	46.58	χO)	74	54	-7.42

			11a	c(VHT20) C	H36: 5180I	MHz			
Frequency (MHz) Ant. Pol. H/V Peak reading (dBµV) Peak reading (dBuV) AV reading (dBuV) Factor (dBµV/m) Correction Factor (dBµV/m) (dBµV/m)		Peak limit (dBµV/m)		Margin (dB)					
5142.20	I	42.62		5.79	48.41		74	54	-5.59
5150.00	Н	38.53		5.82	44.35		74	54	-9.65

Report No.: TCT190910E038

TC	T I	测检 GENTRE TECHN	测				Ron	out No : TCT4	00405020
5142.20	V	43.21		5.79	49.00		74	ort No.: TCT19	-5.00
5150.00	V	41.44		5.82	47.26		74	54	-6.74
3130.00	V	41.44	11a		CH64: 5320		74	34	-0.74
		Peak		Correction		on Level			
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
5332.4	Н	42.64		5.85	48.49		74	54	-5.51
5360.00	H	41.06		5.91	46.97		74	54	-7.03
5331.3	V	40.81		5.86	46.67		74	54	-7.33
5360.00	V	39.47	×ς.	5.91	45.38	(V-)_	74	54	-8.62
		_	11a	c(VHT40) C	H38: 5190	MHz			
	A t D - l	Peak		Carraction		on Level	De els lisseit	A \ / 1::4	N 4 =
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
5142.20	Н	42.86		5.80	48.66		74	54	-5.34
5150.00	Н	39.65		5.82	45.47		74	54	-8.53
5142.20	V	43.52		5.80	49.32		74	54	-4.68
5150.00	V	41.98		5.82	47.80		74	54	-6.20
			11a	c(VHT40) C	H62: 5310	MHz			
Fraguaday	Ant. Pol.	Peak	A) / roading	Correction	Emissio	on Level	Peak limit	AV limit	Marain
Frequency (MHz)	H/V	reading (dBµV)	AV reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	Margin (dB)
5333.40	Н	41.74		5.86	47.60		74	54	-6.40
5360.00	Н	37.66		5.91	43.57		74	54	-10.43
5340.50	V	42.43		5.85	48.28		74	54	-5.72
5360.00	V	40.53		5.91	46.44		74	54	-7.56
			11a	c(VHT80) C	H42: 5210	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
5142.20	.C.H	41.80	4-6	5.80	47.60		74	54	-6.40
5150.00	Ĥ	39.42		5.82	45.24	<u></u>	74	54	-8.76
5142.20	V	40.36		5.80	46.16		74	54	-7.84
5150.00	V	38.79		5.82	44.61		74	54	-9.39
3.00.00	•		11a		CH58: 5290				3.00
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction		n Level AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
5329.30	Н	43.32		5.85	49.17		74	54	-4.83
5360.00	Н	40.12		5.91	46.03		74	54	-7.97
5313 70	V	12 25		5.86	18 11		7/	5/	-5.80

				11a CH100	: 5500MHz				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
5416.24	Н	41.96		6.23	48.19		74	54	-5.81
5460.00	Н	38.53		6.48	45.01		74	54	-8.99
5453.64	V	40.60		6.34	46.94		74	54	-7.06
5460.00	V	39.71		6.48	46.19		74	54	-7.81
				11n CH100	: 5500MHz				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
5423.60	Н	40.22		6.25	46.47		74	54	-7.53
5460.00	Н	37.35		6.48	43.83		74	54	-10.17
5446.40	V	41.87		6.31	48.18		74	54	-5.82
5460.00	V	39.81		6.48	46.29		74	54	-7.71

5.86

5.91

48.11

45.36

74

74

54

54

-5.89

-8.64

5313.70

5360.00

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42.25

39.45



			11n	(HT40) CH	102: 5510N	ИHz		<u> </u>	
Frequency (MHz)	Ant. Pol. H/V	(dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
5427.30	Н	46.37		6.25	52.62		74	54	-1.38
5460.00	Н	42.75		6.48	49.23		74	54	-4.77
5434.10	V	42.81		6.32	49.13		74	54	-4.87
5460.00	V	40.90		6.48	47.38		74	54	-6.62
			•	11ac CH100	D: 5500MHz	<u>z</u>			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
5435.40	Н	41.54		6.29	47.83		74	54	-6.17
5460.00	Н	38.73		6.48	45.21		74	54	-8.79
5428.64	V	40.89		6.25	47.14		74	54	-6.86
5460.00	V	39.74		6.48	46.22		74	54	-7.78
			11ac	(VHT40) CI	H102: 5510	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
5434.40	Н	42.88	' A''	6.28	49.16	37	74	54	-4.84
5460.00	Н	39.62		6.48	46.10		74	54	-7.90
5428.67	V	41.57		6.25	47.82		74	54	-6.18
5460.00	V	40.35		6.48	46.83		74	54	-7.17
			11ac	(VHT80) C	H106: 5530	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
5423.62	Н	42.31		6.21	48.52		74	54	-5.48
5460.00	Z.H	39.66		6.48	46.14		74	54	-7.86
5442.70	V	41.45	[- C]	6.36	47.81	.C. -1	74	54	-6.19
5460.00	V	39.79		6.48	46.27		74	54	-7.73

Note:



^{1.} Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss - Pre-amplifier



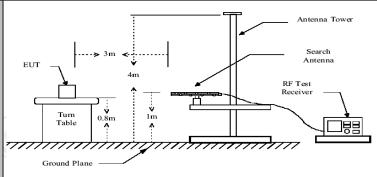
6.8.2. Unwanted Emissions out of the Restricted Bands

Report No.: TCT190910E038

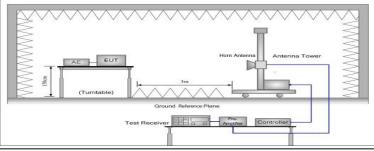
6.8.2.1. Test Specification

Test Requirement:	FCC CFR47	Part 15 S	Section 15.	407 & 1	5.209 & 15.205
Test Method:	KDB 789033	D02 v02	r01		
Frequency Range:	9kHz to 40G				
Measurement Distance:	3 m				
Antenna Polarization:	Horizontal &	Vertical			
Operation mode:	Transmitting	7.	th modulat	ion	
Operation mode.		~ /		KU /	
	Frequency	Detector	RBW	VBW	Remark
Receiver Setup:	9kHz- 150kHz 150kHz- 30MHz	Quasi-pea Quasi-pea		1kHz 30kHz	Quasi-peak Value Quasi-peak Value
Neceiver Setup.	30MHz-1GHz	Quasi-pea	k 100KHz	300KHz	Quasi-peak Value
		Peak	1MHz	3MHz	Peak Value
	Above 1GHz	Peak	1MHz	10Hz	Average Value
	general field strength below table, Frequency		Field Strength (microvolts/meter)		Measurement Distance (meters)
	0.009-0.490		2400/F(KHz)		300
	0.490-1.705		24000/F(KHz	<u>:</u>)	30
Limit:	1.705-30		30		30
	30-88	-,	100		3
	88-216 216-960		200		3
	Above 960		500		3
	Frequency		Limit (dBuV/m @3m)		Detector
	Above 1G		74.0		Peak
	71.BOVE 16		54.0	Average	
Test setup:	For radiated EUT 30MHz to 10	Turn table		Pre -A	Computer





Above 1GHz



- 1. The EUT was placed on the top of a rotating table 0.8 meters above the groundat a 3 meter camber. The table was rotated 360 degrees to determine the position of the highest radiation.
- 2. The EUT was set 3 meters away from the interference-receiving antenna, whichwas mounted on the top of a variable-height antenna tower.
- 3. The antenna height is varied from one meter to four meters above the ground to determine the maximum value of the field strength. Both horizontal and vertical polarizations of the antenna are set to make the measurement.
- 4. For each suspected emission, the EUT was arranged to its worst case and thenthe antenna was tuned to heights from 1 meter to 4 meters and the rotatablewas turned from 0 degrees to 360 degrees to find the maximum reading.
- 5. The test-receiver system was set to Peak Detect Function and SpecifiedBandwidth with Maximum Hold Mode.
- 6. If the emission level of the EUT in peak mode was 10dB lower than the limitspecified, then testing could be stopped and the peak values of the EUT wouldbe reported. Otherwise the emissions that did not have 10dB margin would bere-tested one by one using peak, quasi-peak or average method as specified andthen reported in a data sheet.

Test results:

Test Procedure:

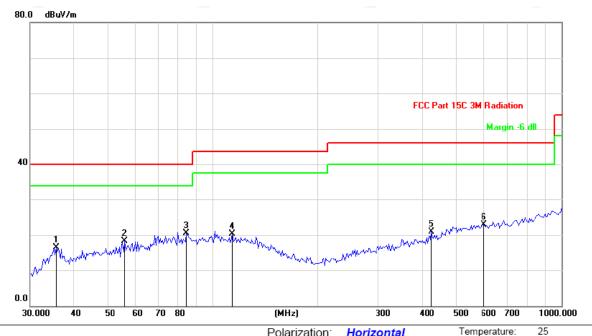
PASS



6.8.3. Test Data

Please refer to following diagram for individual Below 1GHz

Horizontal:



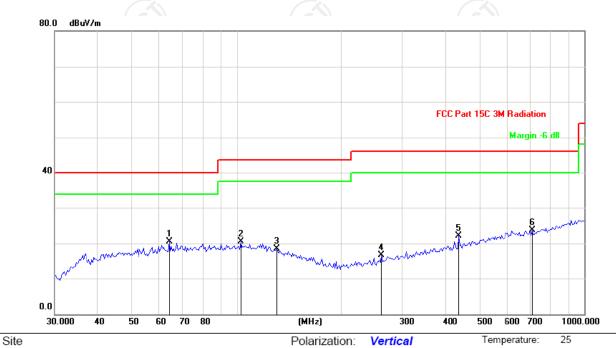
Limit: FCC Part 15C 3M Radiation Power:

Polarization: Horizontal Temperature: 2
Power: Humidity: 55 %

_	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
K			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
) -	1		35.5112	27.60	-11.04	16.56	40.00	-23.44	peak
_	2		56.0708	29.77	-11.45	18.32	40.00	-21.68	peak
_	3	*	84.2839	34.44	-14.01	20.43	40.00	-19.57	peak
_	4		114.0184	30.33	-9.95	20.38	43.50	-23.12	peak
_	5	4	424.2999	29.48	-8.65	20.83	46.00	-25.17	peak
	6		598.7067	28.80	-5.82	22.98	46.00	-23.02	peak



Vertical:



Limit: FCC Part 15C 3M Radiation	Power:	Humidity:	55 %

_	No.	Mk.	Freq.	Reading Level	Correct Factor	Measure- ment	Limit	Over	
-			MHz	dBuV	dB	dBuV/m	dB/m	dB	Detector
-	1	*	64.0800	34.18	-13.71	20.47	40.00	-19.53	peak
_	2		102.6117	28.79	-8.23	20.56	43.50	-22.94	peak
-	3		130.3048	33.93	-15.43	18.50	43.50	-25.00	peak
_	4		261.2730	28.79	-12.18	16.61	46.00	-29.39	peak
	5		436.3956	30.61	-8.49	22.12	46.00	-23.88	peak
_	6		708.6941	29.03	-5.30	23.73	46.00	-22.27	peak

Note: 1.The low frequency, which started from 9KHz~30MHz, was pre-scanned and the result which was 20dB lower than the limit line per 15.31(o) was not reported

- 2. Measurements were conducted in all three channels (high, middle, low) and all modulation (802.11a, 802.11n(HT20), 802.11n(HT40), 802.11ac(VHT20), 802.11ac(VHT40) 802.11nac(VHT80), and the worst case Mode (Lowest channel and 11a) was submitted only.
- 3. Measurement ($dB\mu V$) = Reading level + Correction Factor , correction Factor = Antenna Factor + Cable loss Pre-amplifier.



			N	lodulation 7	: 5180MHz	1			
		Peak		Correction		n Level			
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBuV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10360	Н	40.70		8.02	48.72		74	54	-5.28
15540	Н	42.87		9.87	52.74		74	54	-1.26
(H		(- c)		(.c `		(- c)	
		•							
10360	V	39.70		8.02	47.72		74	54	-6.28
15540	V	42.17		9.87	52.04		74	54	-1.96
	V								
		Dools			5200MHz	n Lovel	1		
requency	Ant. Pol.	Peak reading	Av reading	Correction Factor	Peak	n Level AV	Peak limit	AV limit	Margin
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10400	Н	41.65		7.97	49.62		74	54	-4.38
15600	XH.	40.57	X	9.83	50.40	X 	74	54	-3.60
	CH		(_ C)		((C- -		4.0	
10400	V	42.51		7.97	50.48		74	54	-3.52
15600	V	40.41		9.83	50.24		74	54	-3.76
	V	- 2\			X		 x		
					5240MHz				
requency	Ant. Pol.	Peak	AV reading	Correction		n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10480	Н	40.74		7.97	48.71		74	54	-5.29
15720	Н	41.90		9.83	51.73		74	54	-2.27
(CO H		(O			(0.1)		70	
10480	V	41.89		7.97	49.86		74	54	-4.14
15720	V	39.11		9.83	48.94		74	54	-5.06
<u> </u>	V				<u> </u>				
			11n	(HT20) C	H36: 5180N				
requency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Peak	AV	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
(MHz)	H/V	reading (dBµV)		Factor (dB/m)	Peak (dBµV/m)	AV	(dBµV/m)	(dBµV/m)	(dB)
(MHz) 10360	H/V H	reading (dBµV) 41.55	(dBµV)	Factor (dB/m) 8.02	Peak (dBµV/m) 49.57	ΑV (dBμV/m)	(dBµV/m) 74	(dBµV/m) 54	(dB) -4.43
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
(MHz) 10360 15540	H/V H H	reading (dBµV) 41.55 42.39	(dBµV)	Factor (dB/m) 8.02 9.87	Peak (dBµV/m) 49.57 52.26	AV (dBµV/m) 	(dBμV/m) 74 74	(dBµV/m) 54 54	-4.43 -1.74
(MHz) 10360 15540	H/V H H H	reading (dBµV) 41.55 42.39 41.09	(dBµV)	Factor (dB/m) 8.02 9.87	Peak (dBµV/m) 49.57 52.26	AV (dBµV/m) 	(dBμV/m) 74 74	(dBµV/m) 54 54	-4.43 -1.74
10360 15540	H/V H H H V V	reading (dBµV) 41.55 42.39	(dBµV)	Factor (dB/m) 8.02 9.87	Peak (dBμV/m) 49.57 52.26	ΑV (dBμV/m) 	(dBμV/m) 74 74 	(dBµV/m) 54 54 	(dB) -4.43 -1.74
10360 15540 	H/V H H H	reading (dBµV) 41.55 42.39 41.09	(dBµV)	Factor (dB/m) 8.02 9.87 8.02 9.87	Peak (dBµV/m) 49.57 52.26 49.11 49.74	ΑV (dBμV/m) 	(dBµV/m) 74 74 74	(dBµV/m) 54 54 54	(dB) -4.43 -1.74
10360 15540 10360 15540	H/V H H H V V	reading (dBµV) 41.55 42.39 41.09 39.87	(dBµV)	Factor (dB/m) 8.02 9.87 8.02 9.87 n(HT20) CH	Peak (dBµV/m) 49.57 52.26 49.11 49.74 140: 5200M	ΑV (dBμV/m) Hz	(dBµV/m) 74 74 74 74 74	(dBµV/m) 54 54 54 54 54	(dB) -4.43 -1.744.89 -4.26
10360 15540 10360 15540 	H/V H H V V V Ant. Pol.	reading (dBµV) 41.55 42.39 41.09 39.87 Peak reading	(dBµV) 11r AV reading	Factor (dB/m) 8.02 9.87 8.02 9.87 n(HT20) CH Correction Factor	Peak (dBµV/m) 49.57 52.26 49.11 49.74 140: 5200M Emissic Peak	AV (dBµV/m) Hz on Level AV	(dBµV/m) 74 74 74 74 Peak limit	(dBµV/m) 54 54 54 54 AV limit	(dB) -4.43 -1.744.89 -4.26
10360 15540 10360 15540 	H/V H H V V V Ant. Pol. H/V	reading (dBµV) 41.55 42.39 41.09 39.87 Peak reading (dBµV)	(dBµV)	Factor (dB/m) 8.02 9.87 8.02 9.87 n(HT20) CH Correction Factor (dB/m)	Peak (dBµV/m) 49.57 52.26 49.11 49.74 140: 5200M Emissic Peak (dBµV/m)	AV (dBµV/m) Hz on Level	74 74 74 74 Peak limit (dBμV/m)	(dBµV/m) 54 54 54 54 AV limit (dBµV/m)	-4.43 -1.74 -4.89 -4.26 Margin (dB)
10360 15540 10360 15540 Frequency (MHz)	H/V H H V V V Ant. Pol. H/V	reading (dBµV) 41.55 42.39 41.09 39.87 Peak reading (dBµV) 40.14	(dBµV) 11r AV reading	8.02 9.87 8.02 9.87 6(HT20) CH Correction Factor (dB/m) 7.97	Peak (dBµV/m) 49.57 52.26 49.11 49.74 140: 5200M Emissic Peak (dBµV/m) 48.11	AV (dBµV/m) Hz on Level AV	74 74 74 74 74 74 74 Peak limit (dBμV/m)	(dBµV/m) 54 54 54 54 54 AV limit (dBµV/m) 54	(dB) -4.43 -1.744.89 -4.26 Margin (dB) -5.89
10360 15540 10360 15540 	H/V H H V V V Ant. Pol. H/V H	reading (dBµV) 41.55 42.39 41.09 39.87 Peak reading (dBµV)	(dBµV) 11r AV reading (dBµV)	Factor (dB/m) 8.02 9.87 8.02 9.87 n(HT20) CH Correction Factor (dB/m)	Peak (dBµV/m) 49.57 52.26 49.11 49.74 140: 5200M Emissic Peak (dBµV/m)	AV (dBµV/m) Hz on Level AV (dBµV/m)	74 74 74 74 Peak limit (dBμV/m)	(dBµV/m) 54 54 54 54 AV limit (dBµV/m)	(dB) -4.43 -1.744.89 -4.26 Margir (dB)
10360 15540 10360 15540 Frequency (MHz) 10400	H/V H H V V V Ant. Pol. H/V	reading (dBµV) 41.55 42.39 41.09 39.87 Peak reading (dBµV) 40.14	(dBµV) 11r AV reading (dBµV)	8.02 9.87 8.02 9.87 6(HT20) CH Correction Factor (dB/m) 7.97	Peak (dBµV/m) 49.57 52.26 49.11 49.74 140: 5200M Emissic Peak (dBµV/m) 48.11	AV (dBμV/m) Hz on Level AV (dBμV/m)	74 74 74 74 74 74 74 Peak limit (dBμV/m)	(dBµV/m) 54 54 54 54 54 AV limit (dBµV/m) 54	(dB) -4.43 -1.744.89 -4.26 Margin (dB) -5.89
10360 15540 10360 15540 Frequency (MHz) 10400 15600	H/V H H V V V Ant. Pol. H/V H H	reading (dBµV) 41.55 42.39 41.09 39.87 Peak reading (dBµV) 40.14 41.62	(dBµV) 11i AV reading (dBµV)	Factor (dB/m) 8.02 9.87 8.02 9.87 n(HT20) CH Correction Factor (dB/m) 7.97 9.83	Peak (dBµV/m) 49.57 52.26 49.11 49.74 140: 5200M Emissic Peak (dBµV/m) 48.11 51.45	AV (dBμV/m) Hz on Level AV (dBμV/m) 	(dBµV/m) 74 74 74 74 74 Peak limit (dBµV/m) 74 74	(dBµV/m) 54 54 54 54 54 AV limit (dBµV/m) 54 54	-4.43 -1.74 -4.89 -4.26 Margin (dB) -5.89 -2.55
10360 15540 10360 15540 Frequency (MHz) 10400 15600	H/V H H V V V Ant. Pol. H/V H	reading (dBµV) 41.55 42.39 41.09 39.87 Peak reading (dBµV) 40.14 41.62	(dBµV) 11i AV reading (dBµV)	Factor (dB/m) 8.02 9.87 8.02 9.87 n(HT20) CH Correction Factor (dB/m) 7.97 9.83	Peak (dBµV/m) 49.57 52.26 49.11 49.74 140: 5200M Emissic Peak (dBµV/m) 48.11 51.45	AV (dBµV/m) Hz on Level AV (dBµV/m) 	74 74 74 74 74 74 Peak limit (dBµV/m) 74 74	(dBµV/m) 54 54 54 54 54 AV limit (dBµV/m) 54 54	-4.43 -1.74 -4.89 -4.26 Margin (dB) -5.89 -2.55



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V

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10400

15600

Report No.: TCT190910E038 11n(HT20) CH48: 5240MHz **Emission Level** Peak Correction AV reading Ant. Pol. **AV** limit Frequency Peak limit Margin Factor reading Peak ΑV (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (dBµV (dB/m) (dBµV/m) (dBµV/m) 10480 40.51 7.97 74 -5.52Η 48.48 54 15720 Η 39.45 9.83 49.28 74 54 -4.72Η ------------------10480 V 41.15 7.97 49.12 74 -4.88 54 15720 V 40.71 9.83 50.54 74 54 -3.46 V ---11n(HT40)CH38: 5190MHz Peak Correction **Emission Level** Ant. Pol. AV reading Peak limit **AV limit** Frequency Margin reading Factor Peak AV (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB)(dBµV) (dB/m) (dBµV/m) (dBµV/m) 42.46 50.21 74 -3.79 10380 7.75 54 Н ---42.23 52.10 74 -1.9015570 Н 9.87 54 Н V 7.75 74 -4.62 10380 41.63 49.38 54 15570 40.58 9.87 50.45 74 54 -3.5511n(HT40)CH46: 5230MHz Peak Correction **Emission Level** Frequency Ant. Pol. AV reading Peak limit **AV** limit Margin reading Factor Peak ΑV (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (dBµV) (dB/m) (dBµV/m) (dBµV/m) 10460 Н 7.97 74 54 -3.22 42.81 50.78 74 15690 Η 40.72 9.83 54 -3.4550.55 Н 10460 ٧ 43.69 7.97 51.66 74 54 -2.34-2-7 4---15690 ٧ 41.55 ---9.83 51.38 ---74 54 -2.62 V 11ac(VHT20) CH36: 5180MHz Correction Peak **Emission Level** AV reading Frequency Ant. Pol. Peak limit **AV limit** Margin reading Factor Peak ΑV H/V (dBµV) (dBµV/m) (dBµV/m) (MHz) (dB) (dBµV) (dB/m) (dBµV/m) (dBµV/m) 10360 Н 43.39 8.02 51.41 74 54 -2.59Н 52.31 74 15540 42.44 9.87 54 -1.69 Н 10360 V 40.98 8.02 49.00 74 54 -5.00 74 15540 ٧ 42.41 9.87 52.28 54 -1.7211ac(VHT20) CH40: 5200MHz Correction Peak **Emission Level** Frequency Ant. Pol. AV reading Peak limit **AV limit** Margin reading Factor A۱/ Peak (dBµV/m) (MHz) H/V (dBµV) $(dB\mu V/m)$ (dB) (dBµV) (dB/m) (dBµV/m) (dBµV/m) 10400 42.36 74 Η 7.97 50.33 54 -3.67Н 74 54 -2.21 15600 41.96 9.83 51.79

-4.77

-3.37

54

54

74

74

49.23

50.63

7.97

9.83



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		TESTING CENTRE TECHNOLOGY

			11a	c(VHT20) C	H48: 5240I	MHz			
Frequency	Ant. Pol.	Peak	AV reading	Correction	Emissio	n Level	Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10480	Н	39.17		7.97	47.14		74	54	-6.86
15720	Н	42.70		9.83	52.53		74	54	-1.47
/	Н		<i></i>		/	<u> </u>			
	(0)		120					(20)	
10480	V	41.74		7.97	49.71		74	54	- 4.29
15720	V	42.69		9.83	52.52		74	54	-1.48
	V								
			11a	c(VHT40) C	H38: 5190I	MHz			
Fraguenav	Ant. Pol.	Peak	AV reading	Correction	Emissio	n Level	Peak limit	AV limit	Morgin
Frequency (MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	Margin (dB)
10380	Н	43.51		7.75	51.26		74	54	-2.74
15570	Н	41.80		9.87	51.67		74	54	-2.33
(Н				(fc?	
				7	7		•		
10380	V	40.75		7.75	48.50		74	54	-5.50
15570	V	42.81		9.87	52.68		74	54	-1.32
	V								
			11a	c(VHT40) C	H46: 5230I	MHz			
	A 4 . D . 1	Peak		Correction		n Level	D I. II	A \ / 15 16	N 4
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10460	Н	41.60		7.97	49.57		74	54	-4.43
15690	Н	42.10	<i>f</i>	9.83	51.93	<u> </u>	74	54	-2.07
	O H		40			(0.1)		70	
10460	V	42.83		7.97	50.80		74	54	-3.20
15690	V	40.75		9.83	50.58		74	54	-3.42
<\	V	(-4)			X\		 4\		/
			1	1ac(VHT80) CH42:521	0		'	
_	A 1 D 1	Peak		Correction		n Level	5	A > 7 12 - 11	
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10420	χH	42.21	X	7.96	50.17	(74	54	-3.83
15630	. C H	41.57	(C)	9.84	51.41	.63	74	54	-2.59
	H					2		-40	
10420	V	42.35		7.96	50.31		74	54	-3.69
15630	V	41.44		9.84	51.28		74	54	-2.72
	V			(c					(

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. $Margin (dB) = Emission Level (Peak) (dB\mu V/m)-Average limit (dB\mu V/m)$
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



10600

15900

V

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42.34

41.63

Report No.: TCT190910E038 Modulation Type: Band 2A 11a CH52: 5260MHz Correction **Emission Level** Peak Ant. Pol. AV reading Peak limit **AV** limit Frequency Margin reading Factor Peak ΑV (MHz) H/V (dBuV) (dBµV/m) (dBµV/m) (dB) (dBµV (dB/m) (dBµV/m) | (dBµV/m) 10520 40.30 7.97 48.27 74 -5.73 Η 54 15780 Η 41.51 9.83 51.34 74 54 -2.66 Н ------------------10520 V 43.96 7.97 51.93 74 54 -2.07 ___ 15780 V 41.16 9.83 50.99 74 54 -3.01V ___ 11a CH60: 5300MHz Correction **Emission Level** Peak Frequency Ant. Pol. AV reading Peak limit **AV** limit Margin Factor reading Peak ΑV (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (dBµV) (dB/m) dBµV/m) (dBµV/m) Η 41.24 7.98 49.22 74 54 -4.78 10600 15900 40.86 9.85 50.71 74 54 -3.29Η Н ---------10600 ٧ 41.87 7.98 49.85 74 54 -4.15 15900 40.38 74 -3.77 9.85 50.23 54 V 11a CH64: 5320MHz Correction Peak **Emission Level** Ant. Pol. AV reading Peak limit **AV limit** Frequency Margin reading Factor Peak (dBµV/m) (MHz) H/V (dBµV) (dBµV/m) (dB)(dBµV) (dB/m)(dBµV/m) (dBµV/m) 10640 74 Н 42.60 7.98 54 -3.4250.58 -2.6315960 Η 41.52 9.85 51.37 74 54 Н 10640 ٧ 43.61 7.98 51.59 74 -2.4154 ---15960 ٧ 43.35 9.85 53.20 74 54 -0.80 ٧ 11n(HT20) C52: 5260MHz Peak Correction **Emission Level** Ant. Pol. AV reading **AV** limit Frequency Peak limit Margin reading Factor Peak AV H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (MHz) (dBµV) (dB/m) (dBµV/m) (dBµV/m) 10520 74 Н 42.85 7.97 50.82 54 -3.18 15780 74 Н 41.96 9.83 51.79 54 -2.21Н 10520 40.64 7.97 48.61 74 54 -5.3915780 -1.85 42.32 9.83 52.15 74 54 ٧ 11n(HT20) CH60: 5300MHz Correction Peak **Emission Level** Frequency Ant. Pol. AV reading Peak limit **AV** limit Margin reading Factor Peak AV (MHz) H/V (dBµV) $(dB\mu V/m)$ (dBµV/m) (dB) (dBµV) (dB/m) (dBµV/m) (dBµV/m) 10600 Н 41.48 7.98 49.46 74 54 -4.5415900 Н 40.30 9.85 50.15 74 54 -3.85 H 77 4__

-3.68

-2.52

54

54

74

74

50.32

51.48

7.98

9.85



	TESTING	CENTRE TECH	IOLOGY				Repo	ort No.: TCT19	0910E038
			11	n(HT20) CH	164: 5320M	Hz			
requency	Ant. Pol.	Peak	AV reading	Correction	Emissic		Peak limit	AV limit	Margin
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10640	Н	40.55		7.98	48.53		74	54	-5.47
15960	Н	41.63		9.85	51.48		74	54	-2.52
	Н								
10640	V	42.05		7.98	50.03		74	54	-3.97
15960	V	40.99	<u> X</u>	9.85	50.84	\sim $_{\perp}$	74	54	-3.16
	V								
			1	~/LIT40\CL	IE 4. EOZON 4				
		Peak		n(HT40)CH Correction		n Level			
requency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10540	Н	43.01		7.97	50.98		74	54	-3.02
15810	Н	41.41		9.83	51.24		74	54	-2.76
	Н								
		I.		\	/		I.		\
10540	V	40.30	XV.	7.97	48.27	V	74	54	-5.73
15810	V	42.05		9.83	51.88		74	54	-2.12
	V								
	•		11	n(HT40)CH	162: 5310M	Hz			
	A. A. D. I	Peak		Correction		n Level	D. d. E. E.	A > / 15 14	N 4
requency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10620	Н	42.59		7.98	50.57		74	54	-3.43
15930	Н	42.68		9.85	52.53		74	54	-1.47
	H				/	()		-/- (A)	
	(O)					(O')			
10620	V	40.37		7.98	48.35	<u></u>	74	54	-5.65
15930	V	42.10		9.85	51.95		74	54	-2.05
	V								
	<u>'</u>		11a	ac(VHT20)	C52: 5260N	ИHz			
roguenov	Ant. Pol.	Peak	AV reading	Correction	Emissio	n Level	Peak limit	AV limit	Morgin
requency (MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	Margin (dB)
10520	Н	41.21		7.97	49.18		74	54	-4.82
15780	Н	40.68		9.83	50.51		74	54	-3.49
(H		4-6		/			4-63	
7				7					7
10520	V	42.32		7.97	50.29		74	54	-3.71
15780	V	42.11		9.83	51.94		74	54	-2.06
	V								
	-		11a	c(VHT20) C	H60: 5300	MHz			
			1	Correction		n Level	D I	A) (!: .:	
	T	Peak	l	COLECTOR		,,, <u></u> _,,	Peak limit	AV limit	Margin
(MHz)	H/V	Peak reading (dBµV)	AV reading (dBμV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
(MHz) 10600	H/V H	reading	AV reading (dBµV)	Factor	Peak				
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
(MHz) 10600	H/V H	reading (dBµV) 40.89	(dBµV)	Factor (dB/m) 7.98	Peak (dBµV/m) 48.87	(dBµV/m)	(dBµV/m) 74	(dBµV/m) 54	(dB) -5.13
(MHz) 10600 15900	H/V H H	reading (dBµV) 40.89 41.73	(dBµV)	Factor (dB/m) 7.98 9.85	Peak (dBμV/m) 48.87 51.58	(dBµV/m) 	74 74 	(dBµV/m) 54 54	-5.13 -2.42
10600 15900 	H/V H H H	reading (dBµV) 40.89 41.73	(dBµV)	Factor (dB/m) 7.98 9.85	Peak (dBμV/m) 48.87 51.58	(dBµV/m) 	74 74 	(dBµV/m) 54 54	-5.13 -2.42
10600 15900 	H/V H H	reading (dBµV) 40.89 41.73	(dBµV)	Factor (dB/m) 7.98 9.85	Peak (dBµV/m) 48.87 51.58	(dBµV/m) 	74 74 	(dBµV/m) 54 54 	-5.13 -2.42



			11a	c(VHT20) C	H64: 5320	MHz			
Frequency	Ant. Pol. H/V	Peak	AV reading (dBµV)	Correction	Emission Level		Peak limit	AV limit	Margin
(MHz)		reading (dBµV)		Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
10640	Н	42.96		7.98	50.94		74	54	-3.06
15960	Н	40.68		9.85	50.53		74	54	-3.47
/	Н		<i>/</i>		/			<i>((</i>)	
			KO /					120)	
10640	V	41.96		7.98	49.94		74	54	-4.06
15960	V	42.31		9.85	52.16		74	54	-1.84
	V								
			11a	c(VHT40) C	H54: 5270	MHz			
Fraguaday	Ant. Pol.	Peak	A\/ reading	Correction	Emissio	n Level Deals line		AV limit	Morgin
Frequency (MHz)	H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	(dBµV/m)	Margin (dB)
10540	Н	42.45		7.97	50.42		74	54	-3.58
15810	×Η	39.68		9.83	49.51	/X	74	54	-4.49
(Н		(C)		(.C 4		(C)	
		1					•		
10540	V	41.83		7.97	49.80		74	54	-4.20
15810	V	40.55		9.83	50.38		74	54	-3.62
	V				·				
			11a	c(VHT40) C	H60: 5310	MHz		<u> </u>	
_	A 1 D 1	Peak		Correction		n Level	5 11: ''	A > 7 11 11	
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10620	Н	41.09		7.98	49.07		74	54	-4.93
15930	Н	42.12	4	9.85	51.97	-1-	74	54	-2.03
	Н		120			(O-1-		K	
10620	V	40.90		7.98	48.88		74	54	-5.12
15930	V	39.61		9.85	49.46		74	54	-4.54
	V				<u> </u>				(
			•	11ac(VHT80	O) C58:5290	0			
	A 4 . D 1	Peak		Correction		on Level	D I. I'	A \ / 15 16	N 4
Frequency (MHz)	Ant. Pol. H/V	reading (dBµV)	AV reading (dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
10580	ΚH	42.39	-/-	7.98	50.37	\ 	74	54	-3.63
15870	C H	42.51	(70)	9.85	52.36	2O-4	74	54	-1.64
	Н					<u></u>			
10580	V	43.80		7.98	51.78		74	54	-2.22
10580 15870	V	43.80 42.12		7.98 9.85	51.78 51.97		74 74	54 54	-2.22 -2.03

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



11200

16800

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40.83

41.65

Report No.: TCT190910E038 Modulation Type: Band 2C 11a CH100: 5500MHz Correction Peak **Emission Level** Ant. Pol. AV reading Peak limit **AV** limit Frequency Margin reading Factor Peak ΑV (MHz) H/V (dBuV) (dBµV/m) (dBµV/m) (dB) (dBµV (dB/m) (dBµV/m) | (dBµV/m) 11000 40.64 8.03 48.67 74 -5.33 Η 54 16500 Η 41.79 9.76 51.55 74 54 -2.45 Н ------------------11000 42.97 8.03 51.00 74 54 -3.00 16500 V 41.50 9.76 51.26 74 54 -2.74 V ___ 11a CH120: 5600MHz Peak Correction **Emission Level** Frequency Ant. Pol. AV reading Peak limit **AV** limit Margin Factor reading Peak ΑV (MHz) H/V (dBµV) $(dB\mu V/m)$ (dBµV/m) (dB) (dBµV) (dB/m) (dBµV/m) dBµV/m) 41.83 11200 Η 8.04 49.87 74 54 -4.1316800 42.66 9.74 52.40 74 54 -1.60 Η Н ---------11200 ٧ 40.75 8.04 48.79 74 54 -5.2116800 41.90 9.74 74 -2.36 51.64 54 V 11a CH144: 5720MHz Correction Peak **Emission Level** Ant. Pol. AV reading Peak limit **AV limit** Frequency Margin reading Factor Peak (dBµV/m) (MHz) H/V (dBµV) (dBµV/m) (dB)(dBµV) (dB/m)(dBµV/m) (dBµV/m) 11440 74 Н 40.59 54 -5.36 8.05 48.64 17160 74 Η 42.63 9.72 52.35 54 -1.65Н 11440 ٧ 41.58 8.05 49.63 74 -4.3754 ---17160 ٧ 42.26 9.72 51.98 74 54 -2.02٧ 11n(HT20) CH100: 5500MHz Peak Correction **Emission Level** Ant. Pol. AV reading **AV** limit Frequency Peak limit Margin reading Factor Peak AV (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (dBµV) (dB/m) (dBµV/m) (dBµV/m) 74 11000 Н 41.92 8.03 49.95 54 -4.05 74 16500 Н 40.66 9.76 50.42 54 -3.58Н 11000 40.97 8.03 49.00 74 54 -5.00 -1.2316500 43.01 9.76 52.77 74 54 ٧ 11n(HT20) CH120: 5600MHz Correction Peak **Emission Level** Frequency Ant. Pol. AV reading Peak limit **AV** limit Margin reading Factor Peak AV (MHz) H/V (dBµV) $(dB\mu V/m)$ (dBµV/m) (dB) (dBµV) (dB/m) (dBµV/m) (dBµV/m) 11200 Н 41.24 8.04 49.28 74 54 -4.7216800 Н 42.81 9.74 52.55 74 54 -1.45 H 77

-5.13

-2.61

54

54

74

74

48.87

51.39

8.04

9.74



Н

V

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40.80

41.70

11000

16500

Report No.: TCT190910E038 11n(HT20) CH144: 5720MHz **Emission Level** Peak Correction AV reading Ant. Pol. **AV** limit Frequency Peak limit Margin Factor reading Peak ΑV (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (dBµV (dB/m) (dBµV/m) (dBµV/m) 11440 41.88 8.05 49.93 74 -4.07 Η 54 17160 Η 42.68 9.72 52.40 74 54 -1.60 Η ------------------11440 V 43.51 8.05 74 54 -2.44 51.56 17160 V 42.57 9.72 52.29 74 54 -1.71 V ---11n(HT40)CH102: 5510MHz Correction Peak **Emission Level** Frequency Ant. Pol. AV reading Peak limit **AV limit** Margin reading Factor Peak AV (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB)(dBµV) (dB/m) (dBµV/m) (dBµV/m) 40.43 48.46 74 -5.54 11020 Н 8.03 54 ---51.86 16530 42.10 74 -2.14 Н 9.76 54 Н 11020 V 41.36 74 8.03 49.39 54 -4.6116530 43.29 9.76 53.05 74 54 -0.9511n(HT40)CH118: 5590MHz Correction Peak **Emission Level** AV reading Frequency Ant. Pol. Peak limit **AV** limit Margin reading Factor Peak ΑV (MHz) H/V (dBµV) (dBµV/m) (dBµV/m) (dB) (dBµV) (dB/m) (dBµV/m) (dBµV/m) 49.57 11180 Н 41.53 8.04 74 54 -4.43 74 16770 Η 40.71 9.74 50.45 54 -3.55Н ٧ 40.10 8.04 74 -5.8611180 48.14 54 -2-4---16770 ٧ 42.93 ---9.74 52.67 ---74 54 -1.33 V 11n(HT40) CH142: 5710MHz Correction Peak **Emission Level** Frequency Ant. Pol. AV reading Peak limit **AV limit** Margin reading Factor Peak ΑV H/V (dBµV) (dBµV/m) (dBµV/m) (MHz) (dB) (dBµV) (dB/m) (dBµV/m) (dBµV/m) 11420 Н 42.44 8.05 50.49 74 54 -3.51Н 43.50 53.22 74 17130 9.72 54 -0.78 Н 41.47 -4.48 11420 V 8.05 49.52 74 54 17130 74 -4.43٧ 39.85 9.72 49.57 54 11ac(VHT20) CH100: 5500MHz Peak Correction **Emission Level** Frequency Ant. Pol. AV reading Peak limit **AV limit** Margin reading Factor A۱/ Peak (dBµV/m) (dBµV/m) (MHz) H/V (dBµV) (dB) (dBµV) (dB/m) (dBµV/m) (dBµV/m) 74 -5.54 11000 Η 40.43 8.03 48.46 54 Н 41.35 74 54 16500 9.76 51.11 -2.89

-5.17

-2.54

54

54

74

74

48.83

51.46

8.03

9.76





			11ac	(VHT20) C	H120: 5600	MHz			
Frequency	Ant. Pol.	Peak	Peak AV reading Correction Emission Leve			on Level	Peak limit	AV limit	Margir
(MHz)	H/V	reading (dBµV)	(dBµV)	Factor (dB/m)	Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11200	Н	42.11		8.04	50.15		74	54	-3.85
16800	Н	41.84		9.74	51.58		74	54	-2.42
	Н								
					/				
11200	V	40.74	<u> </u>	8.04	48.78	(O 1) -	74	54	-5.22
16800	V	41.45		9.74	51.19	<u> </u>	74	54	-2.81
	V								
				(VHT20) C		MHz			
Frequency	Ant. Pol.	Peak	AV reading	Correction	Emissio	on Level	Peak limit	AV limit	Margir
(MHz)	H/V	reading	(dBµV)		I can	AV	(dBµV/m)	(dBµV/m)	(dB)
11112		(dBµV)	,	(dB/m)	(dBµV/m)	(dBµV/m)	` ' '	- 1	` ′
11440	H	41.98		8.05	50.03		74	54	-3.97
17160	Н	41.32		9.72	51.04		74	54	-2.96
	Н		7						
11440	V	42.81	KQ.	8.05	50.06	(0')	74	51	2 11
17160	V			9.72	50.86	<u> </u>	74	54 54	-3.14
	V	41.47		9.72	51.19				-2.81
	V		1100	(VHT40) C	 L102: 5510	 \\\			
		Dools				on Level			
requency		Peak reading	AV reading	Factor	Dook	AV	Peak limit	AV limit	Margir
(MHz)	H/V	(dBµV)	(dBµV)	(dB/m)	Peak (dBµV/m)	(dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
11020	Н	40.75		8.03	48.78		74	54	-5.22
16530	Н	41.60		9.76	51.36		74	54	-2.64
/	Н		<i></i>		/			-4	
Į,	(0)		70			(0)		10	
11020	V	42.57		8.03	50.60		74	54	-3.40
16530	V	40.46		9.76	50.22		74	54	-3.78
	V								
			11			00			
			1.1	ac(VHT40)	CH118:55	90			
requency	Ant Pol	Peak		Correction		on Level	Peak limit	Λ\/ limit	Margir
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction	Emission Peak		Peak limit (dBµV/m)	AV limit (dBµV/m)	Margir (dB)
		reading	AV reading	Correction Factor	Emission Peak	n Level AV			
(MHz)	H/V	reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	(dBµV/m)	(dBµV/m)	(dB)
(MHz) 11180	H/V H	reading (dBµV) 40.67	AV reading (dBμV)	Correction Factor (dB/m) 8.04	Emission Peak (dBµV/m) 48.71	AV (dBµV/m)	(dBµV/m) 74	(dBµV/m) 54	(dB) -5.29
(MHz) 11180	H/V H H	reading (dBµV) 40.67 39.01	AV reading (dBµV)	Correction Factor (dB/m) 8.04 9.74	Emissid Peak (dBµV/m) 48.71 48.75	AV (dBµV/m)	(dBμV/m) 74 74	(dBµV/m) 54 54	-5.29 -5.25
(MHz) 11180	H/V H H	reading (dBµV) 40.67 39.01	AV reading (dBµV)	Correction Factor (dB/m) 8.04 9.74	Emissid Peak (dBµV/m) 48.71 48.75	AV (dBµV/m)	(dBμV/m) 74 74	(dBµV/m) 54 54	-5.29 -5.25
(MHz) 11180 16770	H/V H H H	reading (dBµV) 40.67 39.01	AV reading (dBµV)	Correction Factor (dB/m) 8.04 9.74	Emissic Peak (dBµV/m) 48.71 48.75	AV (dBµV/m)	(dBμV/m) 74 74 	(dBµV/m) 54 54 	-5.29 -5.25
(MHz) 11180 16770 11180	H/V H H H	reading (dBµV) 40.67 39.01 40.79	AV reading (dBµV)	Correction Factor (dB/m) 8.04 9.74 8.04 9.74	Emissic Peak (dBµV/m) 48.71 48.75 48.83 49.38	n Level AV (dBµV/m)	(dBµV/m) 74 74 74	(dBµV/m) 54 54	-5.29 -5.25
(MHz) 11180 16770 11180	H/V H H H V V	reading (dBµV) 40.67 39.01 40.79 39.64	AV reading (dBµV) 11ac	Correction Factor (dB/m) 8.04 9.74 8.04 9.74 (VHT40) CI	Emissic Peak (dBµV/m) 48.71 48.75 48.83 49.38 H142: 5710	n Level AV (dBµV/m) MHz	(dBµV/m) 74 74 74 74 74	(dBµV/m) 54 54 54 54 54	-5.29 -5.25
(MHz) 11180 16770 11180 16770	H/V H H V V V	reading (dBµV) 40.67 39.01 40.79 39.64 	AV reading (dBµV) 11ac	Correction Factor (dB/m) 8.04 9.74 8.04 9.74 (VHT40) CI	Emissic Peak (dBµV/m) 48.71 48.75 48.83 49.38 H142: 5710 Emissic	n Level AV (dBµV/m) MHz n Level	(dBµV/m) 74 74 74 74	(dBµV/m) 54 54 54 54	-5.29 -5.25 -5.17 -4.62
11180 16770 11180 16770 11180 16770	H/V H H H V V V Ant. Pol. H/V	reading (dBµV) 40.67 39.01 40.79 39.64 Peak reading (dBµV)	AV reading (dBµV) 11ac	Correction Factor (dB/m) 8.04 9.74 8.04 9.74 (VHT40) CH Correction Factor (dB/m)	Emissic Peak (dBµV/m) 48.71 48.75 48.83 49.38 H142: 5710 Emissic Peak (dBµV/m)	n Level AV (dBµV/m) MHz	(dBµV/m) 74 74 74 74 Peak limit (dBµV/m)	(dBµV/m) 54 54 54 54 AV limit (dBµV/m)	-5.29 -5.25 -5.17 -4.62 Margin (dB)
11180 16770 11180 16770 11180 16770 Frequency (MHz) 11420	H/V H H H V V V V Ant. Pol. H/V	reading (dBµV) 40.67 39.01 40.79 39.64 Peak reading (dBµV) 39.34	AV reading (dBµV) 11ac AV reading	Correction Factor (dB/m) 8.04 9.74 8.04 9.74 (VHT40) CF Correction Factor (dB/m) 8.05	Emissic Peak (dBµV/m) 48.71 48.75 48.83 49.38 H142: 5710 Emissic Peak (dBµV/m) 47.39	n Level AV (dBµV/m) MHz n Level AV	74 74 74 74 74 Peak limit (dBμV/m)	54 54 54 54 54 54 54 AV limit (dBμV/m)	-5.29 -5.25 -5.17 -4.62 Margin (dB) -6.61
11180 16770 11180 16770 11180 16770	H/V H H V V V Ant. Pol. H/V H	reading (dBµV) 40.67 39.01 40.79 39.64 Peak reading (dBµV)	AV reading (dBµV) 11ac AV reading (dBuV)	Correction Factor (dB/m) 8.04 9.74 8.04 9.74 (VHT40) CH Correction Factor (dB/m)	Emissic Peak (dBµV/m) 48.71 48.75 48.83 49.38 H142: 5710 Emissic Peak (dBµV/m)	n Level AV (dBµV/m) MHz n Level AV (dBµV/m)	(dBµV/m) 74 74 74 74 Peak limit (dBµV/m)	(dBµV/m) 54 54 54 54 AV limit (dBµV/m)	-5.29 -5.25 -5.17 -4.62 Margin (dB)
11180 16770 11180 16770 11180 16770 Frequency (MHz) 11420	H/V H H H V V V V Ant. Pol. H/V	reading (dBµV) 40.67 39.01 40.79 39.64 Peak reading (dBµV) 39.34	AV reading (dBµV) 11ac AV reading (dBuV)	Correction Factor (dB/m) 8.04 9.74 8.04 9.74 (VHT40) CF Correction Factor (dB/m) 8.05	Emissic Peak (dBµV/m) 48.71 48.75 48.83 49.38 H142: 5710 Emissic Peak (dBµV/m) 47.39	n Level AV (dBµV/m) MHz n Level AV (dBµV/m)	74 74 74 74 74 Peak limit (dBμV/m)	54 54 54 54 54 54 54 AV limit (dBμV/m)	-5.29 -5.25 -5.17 -4.62 Margin (dB) -6.61
11180 16770 11180 16770 11180 16770 Frequency (MHz) 11420 17130	H/V H H H V V V Ant. Pol. H/V H H H	reading (dBµV) 40.67 39.01 40.79 39.64 Peak reading (dBµV) 39.34 37.65	AV reading (dBµV) 11ac AV reading (dBuV)	Correction Factor (dB/m) 8.04 9.74 8.04 9.74 (VHT40) CI Correction Factor (dB/m) 8.05 9.72	Emissic Peak (dBµV/m) 48.71 48.75 48.83 49.38 H142: 5710 Emissic Peak (dBµV/m) 47.39 47.37	on Level AV (dBµV/m) MHz on Level AV (dBµV/m)	(dBµV/m) 74 74 74 74 74 Peak limit (dBµV/m) 74	(dBµV/m) 54 54 54 54 54 AV limit (dBµV/m) 54 54	-5.29 -5.25 -5.17 -4.62 Margin (dB) -6.61 -6.63
11180 16770 11180 16770 Frequency (MHz) 11420	H/V H H V V V Ant. Pol. H/V H	reading (dBµV) 40.67 39.01 40.79 39.64 Peak reading (dBµV) 39.34 37.65	AV reading (dBµV) 11ac AV reading (dBuV)	Correction Factor (dB/m) 8.04 9.74 8.04 9.74 (VHT40) CI Correction Factor (dB/m) 8.05 9.72	Emissic Peak (dBµV/m) 48.71 48.75 48.83 49.38 H142: 5710 Emissic Peak (dBµV/m) 47.39	on Level AV (dBµV/m) MHz on Level AV (dBµV/m)	(dBµV/m) 74 74 74 74 74 Peak limit (dBµV/m) 74 74	(dBµV/m) 54 54 54 54 54 AV limit (dBµV/m) 54 54	-5.29 -5.25 -5.17 -4.62 Margin (dB) -6.61 -6.63





			11ac	(VHT80) CI	H106: 5530	MHz				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction		n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
11060	Н	40.53		8.03	48.56		74	54	-5.44	
16590	H	42.10	7//	9.75	51.85		74	54	-2.15	
()	Н		(- C)		(·C -}		[- 6]		
11060	V	41.14		8.03	49.17		74	54	-4.83	
16590	V	42.29		9.75	52.04		74	54	-1.96	
	V									
			11a	(HT80) CH	138: 5690N	ЛНz				
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
11380	Н	41.87		8.05	49.92		74	54	-4.08	
17070	H	39.40	+- (9.72	49.12		74	54	-4.88	
(O H		70)		(0-)		70)	
11380	V	40.85		8.05	48.90		74	54	-5.10	
17070	V	40.93		9.72	50.65		74	54	-3.35	
X\	V			(X\				- /	

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



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			N	lodulation T	ype: Band	3				
11a(HT20) CH149: 5745MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBuV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
11490	Н	40.25		8.09	48.34		74	54	-5.66	
17235	Н	39.65		9.67	49.32		74	54	-4.68	
(H				(
			'K'		1			KO)		
11490	V	42.37		8.09	50.46		74	54	-3.54	
17235	V	42.8		9.67	52.47		74	54	-1.53	
	V									

	11a(HT20) CH157: 5785MHz										
Frequency (MHz)	$(dB\mu V)$ $(dB\mu V)$ $(dB\mu V)$ $(dB\mu V)$ $(dB\mu V/m)$ $(dB\mu V/m)$					Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
11570	H	42.08		8.10	50.18		74	54	-3.82		
17355	, C H	41.15	(- G)	9.65	50.80	, C, -	74	54	-3.20		
"	H										
11570	V	40.69		8.10	48.79		74	54	-5.21		
17355	V	41.81		9.65	51.46		74	54	-2.54		
	V			(, c			-		(, (

	11a(HT20) CH161: 5825MHz											
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)			
11650	KO H	40.11	70.	8.12	48.23	(O-1)	74	54	-5.77			
17475	H	39.12		9.62	48.74		74	54	-5.26			
	Н											
						I						
11650	V	41.46		8.12	49.58		74	54	-4.42			
17475	V	40.89		9.62	50.51		74	54	-3.49			
/	V			(

			1Hz						
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11510	I	41.65		8.09	49.74	-	74	54	-4.26
17265	Н	40.51		9.67	50.18		74	54	-3.82
	Н	-							
					-11				
11510	V	42.16		8.09	50.25		74	54	-3.75
17265	V	40.83		9.67	50.50		74	54	-3.50
	V								

TCT通测检测
TESTING CENTRE TECHNOLOGY

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11n(HT20) CH157: 5785MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11570	I	41.42		8.10	49.52		74	54	-4.48
17355	I	42.38		9.65	52.03		74	54	-1.97
	Н								
11570	<	40.97	4	8.10	49.07	+	74	54	-4.93
17355	V	40.66	-	9.65	50.31	7	74	54	-3.69
	V								

11n(HT20) CH165: 5825MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11650	Н	40.78		8.12	48.90		74	54	-5.10
17475	Н	39.53		9.62	49.15		74	54	-4.85
	H		- 					- 	
()	C^{\prime}		(20)			$\mathcal{L}(\mathcal{L}(\mathcal{L}(\mathcal{L}(\mathcal{L}(\mathcal{L}(\mathcal{L}(\mathcal{L}($		(,0)	
11650	V	43.75		8.12	51.87	1	74	54	-2.13
17475	V	41.67		9.62	51.29		74	54	-2.71
	V								

11n(HT40) CH151: 5755MHz										
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
11510	Н	42.68		8.09	50.77		74	54	-3.23	
17265	Н	43.49		9.67	53.16		74	54	-0.84	
(KO H		70		((O_)		70		
11510	V	42.83		8.09	50.92		74	54	-3.08	
17265	V	41.33		9.67	51		74	54	-3	
<	V				×				/	
		$(C_{\mathcal{O}})$	•		5)	•			1/2	

			11n	(HT40) CH	159: 5795N	1Hz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11590	H	41.40		8.10	49.5		74	54	-4.5
17385	Н	42.65		9.65	52.3		74	54	-1.7
	Н								
11590	V	41.16		8.10	49.26		74	54	-4.74
17385	V	39.88		9.65	49.53		74	54	-4.47
7 /	V	K u		🔨)		<u> </u>		🖔

	11ac(VHT40) CH149: 5745MHz									
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)		Correction Factor (dB/m)			Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)	
11490	Н	42.51		8.09	50.60		74	54	-3.40	
17235	Н	42.90		9.67	52.57		74	54	-1.43	
	Н									
-/-					7.					
11490	V	41.72		8.09	49.81		74	54	-4.19	
17235	V	43.55		9.67	53.22		74	54	-0.78	
	V									

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			11ac	(VHT20) CI	H157: 5785	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11570	I	40.71		8.10	48.81		74	54	-5.19
17355	I	38.59		9.65	48.24		74	54	-5.76
	I					1			
11570	V	39.95		8.10	48.05	7	74	54	-5.95
17355	V	40.50		9.65	50.15		74	54	-3.85
	V								

·					- h				
			11ac	(VHT20) CI	H165: 5825	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	ΑV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11650	Н	41.99		8.12	50.11		74	54	-3.89
17475	×Η	40.22	- 	9.62	49.84	/ 	74	54	-4.16
()	CH		[- C]		(√ 0.		[- C])
				,	*				
11650	V	41.26		8.12	49.38		74	54	-4.62
17475	V	42.75		9.62	52.37		74	54	-1.63
Z	V				Z				

11ac(VHT40) CH151: 5755MHz										
	Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBμV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
	11510	Н	41.36		8.09	49.45		74	54	-4.55
	17265	CO H	39.85	70	9.67	49.52	ζOJ	74	54	-4.48
		H					<u></u>			
	11510	V	42.42		8.09	50.51		74	54	-3.49
	17265	V	39.44		9.67	49.11		74	54	-4.89
) ·	V			(20	(``ر				(, (

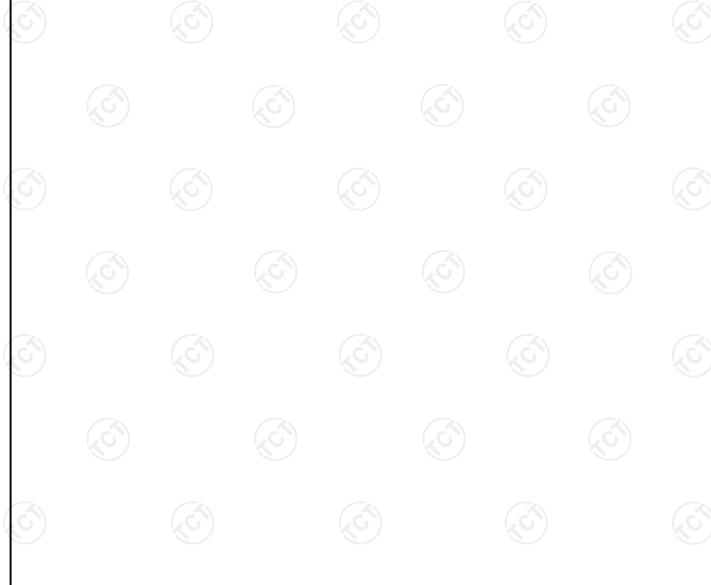
			11ac	(VHT40) CI	H159: 5795	MHz			
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)
11590	Н	41.62	-4	8.10	49.72		74	54	-4.28
17385	Н	39.67		9.65	49.32		74	54	-4.68
	Н								
11590	V	42.86		8.10	50.96		74	54	-3.04
17385	V	41.60		9.65	51.25		74	54	-2.75
	V)		



	11ac(VHT80) CH155: 5775MHz												
Frequency (MHz)	Ant. Pol. H/V	Peak reading (dBµV)	AV reading (dBµV)	Correction Factor (dB/m)	Emission Peak (dBµV/m)	n Level AV (dBµV/m)	Peak limit (dBµV/m)	AV limit (dBµV/m)	Margin (dB)				
11550	I	41.36		8.09	49.45		74	54	-4.55				
17325	I	42.85		9.66	52.51		74	54	-1.49				
	I												
11550	\	42.66		8.09	50.75		74	54	-3.25				
17325	V	40.41	***	9.66	50.07	7	74	54	-3.93				
	V												

Note:

- 1. Emission Level=Peak Reading + Correction Factor; Correction Factor= Antenna Factor + Cable loss Pre-amplifier
- 2. Margin (dB) = Emission Level (Peak) (dB μ V/m)-Average limit (dB μ V/m)
- 3. The emission levels of other frequencies are very lower than the limit and not show in test report.
- 4. Measurements were conducted from 1 GHz to the 10th harmonic of highest fundamental frequency. The highest test frequency is 40GHz.
- 5. Data of measurement shown "---"in the above table mean that the reading of emissions is attenuated more than 20 dB below the limits or the field strength is too small to be measured.



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6.9. Frequency Stability Measurement

6.9.1. Test Specification

Test Requirement:	FCC Part15 Section 15.407(g) &Part2 J Section 2.1055
Test Method:	ANSI C63.10: 2013
Limit:	The frequency tolerance shall be maintained within the band of operation frequency over a temperature variation of 0 degrees to 45 degrees C at normal supply voltage, and for a variation in the primary supply voltage from 85% to 115% of the rated supply voltage at a temperature of 20 degrees C.
Test Setup:	Spectrum Analyzer EUT AC/DC Power supply
Test Procedure:	The EUT was placed inside the environmental test chamber and powered by nominal AC/DC voltage. b. Turn the EUT on and couple its output to a spectrum analyzer. c. Turn the EUT off and set the chamber to the highest temperature specified. d. Allow sufficient time (approximately 30 min) for the temperature of the chamber to stabilize. e. Repeat step 2 and 3 with the temperature chamber set to the lowest temperature. f. The test chamber was allowed to stabilize at +20 degree C for a minimum of 30 minutes. The supply voltage was then adjusted on the EUT from 85% to 115% and the frequency record.
Test Result:	PASS
Remark:	Pre-scan was performed at all models(11a,11n,11ac), the worst case (11ac) was found and test data was shown in this report.

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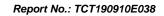


Test plots as follows:

Test mode:		802.11ac(V	/HT20)	HT20) Frequency(MHz):			5180		
Tomporature (°C)	Voltage(VDC)		Measurement		D	elta	Result		
Temperature (°C)	VC	ntage(VDC)	Frequen	cy(MHz)	Freque	ency(Hz)	Res	uit	
45			5180.	.0092	9:	200	PAS	SS	
35			5180.	.0064	64	400	PAS	SS	
25		3.8V	5179.9878		-12	2200	PAS	SS	
15		3.0 V	5179.	79.9983 -1700		700	PAS	SS	
5			5180.	.0038	38	800	PAS	SS	
0	KC) `)	5180.	5180.0042		200	PAS	SS	
		4.3	5179.	.9831	-16	5900	PAS	SS	
20	3.8		5180.	.0034	3400		PAS	SS	
		3.6	5179.	5179.9825		7500	PAS	SS	

Test mode:	802.11ac(\	/HT20)	Freque	ency(MHz):	5200		
Temperature (°C)	Voltage(VDC)	Measur	ement	Delta		Result	
Temperature (C)	voltage(vDC)	Frequence	cy(MHz)	Frequency(Hz)		Nesuit	
45	(C)	5200.0090		9000		PASS	
35		5200.	0089	8900		PASS	
25	3.8V	5200.	0078	7800		PASS	
15	3.00	5200.	0043	4300		PASS	
5		5199.	9980	-2000		PASS	
0		5199.	9879	-12100		PASS	
	4.3	5199.	9957	-4300		PASS	
20	3.8	5200.	0031	3100		PASS	
	3.6	5200.	0053	5300		PASS	

Test mode:		802.11ac(V	/HT20)	Freque	ency(MHz)	:	5240
Temperature (°C)	Voltage(VDC)			Measurement		а	Result
Temperature (0)			Frequency(MHz)		Frequency(Hz)		rtodait
45			5240	.0043	430	0	PASS
35			5240	.0029	290	0	PASS
25		3.8V	5240.0024		240	0	PASS
15		3.0V	5239.9991 5239.9983		-900		PASS
5					-1700		PASS
0			5239	5239.9979		0	PASS
4.3		4.3	5240.0035		3500		PASS
20		3.8	5240.0010		1000		PASS
(C)		3.6	5239.9985		-150	0	PASS

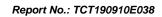




Test mode:	802.11ac(VHT20)	Freque	ency(MHz):		5260	
Temperature (°C)	Voltage(VDC)	Measu	rement	Delta		Result	
Temperature (C)	voitage(vDC)	Frequen	icy(MHz)	Frequency(Hz)		Nesuit	
45			.0095	9500		PASS	
35		5260	.0077	7700		PASS	
25	2 0)/	5260	.0034	3400		PASS	
15	3.8V	5260	.0048	4800		PASS	
5		5259	.9925	-7500		PASS	
0		5260	.0074	7400		PASS	
	4.3	5259	.9934	-6600	3	PASS	
20	3.8	5259	.9968	-3200	5)	PASS	
	3.6	5260	.0081	8100		PASS	

Test mode:		802.11ac(V	/HT20)	Freque	ency(MHz):			5300	
Temperature (°C)	Voltage(VDC)		Measurement			Delta		Pos	sult
Temperature (C)			Frequency(MHz)		Frequency(Hz)		Hz)	Result	
45				.0091		9100		PAS	SS
35			5300.0084		8400			PAS	SS
25		3.8V	5300	5300.0072		7200	57)	PAS	SS
15		3.0V	5299	.9984		-1600		PAS	SS
5			5300	.0059		5900		PAS	SS
0			5299	.9906		-9400		PAS	SS
(.G)		4.3	5300	.0101	.67)	10100		PAS	SS
20		3.8	5299	.9966		-3400		PAS	SS
		3.6	5300	.0083		8300		PAS	SS

Test mode:	802.11ac(VHT20) Fred	quency(MHz):	5320
Temperature (°C)	Voltage(VDC)	Measurement	: Delta	Result
Temperature (C)	voitage(vDC)	Frequency(MH	z) Frequency(Hz)	rvesuit
45		5320.0085	8500	PASS
35		5320.0074	7400	PASS
25	3.8V	5319.9959	-4100	PASS
15	3.00	5320.0063	6300	PASS
5		5320.0088	8800	PASS
0		5319.9901	-9900	PASS
	4.3	5319.9916	-8400	PASS
20	3.8	5320.0027	2700	PASS
	3.6	5320.0073	7300	PASS

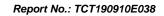




Test mode:	802.11ac	(VHT20)	Freque	ency(MHz):		5500	
Temperature (°C)	Voltage(VDC)	Measu	rement	Delta		Result	
Temperature (C)	voitage(vDC)	Frequer	icy(MHz)	Frequency(Hz)		Nesuit	
45		5500	.0102	10200		PASS	
35		5500	.0076	7600		PASS	
25	2.01/	5499	.9965	-3500		PASS	
15	3.8V	5499	.9949	-5100		PASS	
5		5500	.0061	6100		PASS	
0		5500	.0094	9400		PASS	
	4.3	5500	.0092	9200	3	PASS	
20	3.8	5499	.9970	-3000	5)	PASS	K
	3.6	5500	.0077	7700		PASS	

Test mode:		802.11ac(V	/HT20)	Freque	ency(MHz):			5600	
Temperature (°C)	Voltage(VDC)		Measurement		[Delta		Pos	sult
Temperature (C)			Frequency(MHz)		Frequency(Hz)		Hz)	Result	
45				.0075	7500			PAS	SS
35			5600	.0069	6	5900		PAS	SS
25		3.8V	5600.0025		2	2500	57)	PAS	SS
15		/3.0V	5599	.9962	-	3800		PAS	SS
5			5599	.9939	-	6100		PAS	SS
0			5600	.0086		3600		PAS	SS
(.c)		4.3	5600	.0074	(6)	7400		PAS	SS
20		3.8	5600	.0033		3300		PAS	SS
		3.6	5600	.0068	(0086		PAS	SS

Test mode:	802.11ac(VHT20)	Frequency(MHz):			5720	
Temperature (°C)	Voltage(VDC)	Measuren	Measurement			Result	
Temperature (C)	voitage(vDC)	Frequency(Frequency(MHz)		Hz)		
45		5720.00	94	9400		PASS	
35		5720.00	88	8800		PASS	
25	3.8V	5720.00	5720.0065			PASS	
15	3.00	5719.99	5719.9932			PASS	
5		5719.99	21	-7900		PASS	
0		5720.00	73	7300		PASS	
	4.3	5720.00	69	6900	O()	PASS	
20	3.8	5719.99	44	-5600		PASS	
	3.6	5720.00	76	7600		PASS	





Test mode:		802.11ac(V	/HT20)	Freque	ency(Mi	Hz):		5745	
Temperature (°C)	\/o	Itage(VDC)	Measu	rement		elta		Result	
remperature (C)	VU	ilage(VDC)	Frequency(MHz)		Frequency(Hz)		z)	Nesuit	
45			5745.0012		1200			PASS	
35			5745.	.0014	1	400		PASS	
25		2 0)/	5744.	.9960	-4	1000		PASS	
15		3.8V	5744.	9955	-4	1500		PASS	
5			5745.	.0033	3	300		PASS	
0			5745.	.0041	4	100		PASS	
		4.3	5745.	.0076	7	600		PASS	
20		3.8	5745.0071		7100			PASS	
	3.6		5745.	.0021	2	100		PASS	

Test mode:	802.11ac(VHT20) Fr	equen	ncy(MHz):		5785
Temperature (°C)	Voltage(VDC)	Measureme	nt	Delta		Result
Temperature (C)	voitage(vDC)	Frequency(MHz)		Frequency(H	lz)	Nesuit
45		5785.0083	}	8300		PASS
35		5785.0030		3000	2	PASS
25	3.8V	5785.0028	,	2800		PASS
15	3.00	5785.0008		800		PASS
5		5785.0025		2500		PASS
0		5785.0043		4300		PASS
(.6)	4.3	5785.0057		5700		PASS
20	3.8	5785.0026		2600		PASS
	3.6	5784.9975		-2500		PASS

Test mode:	802.11ac(VHT20)	Freque	ency(MHz):		5825	
Temperature (°C)	Voltage(VDC)	Measur	Measurement			Result	
Temperature (C)	voitage(vDC)	Frequenc	Frequency(MHz)		Hz)	Nesuit	
45		5824.9	5824.9813			PASS	
35		5825.0	0081	8100		PASS	
25	3.8V	5824.9	9953	-4700		PASS	
15	3.00	5824.9	9985	-1500		PASS	
5		5825.0	0015	1500		PASS	
0		5825.0	0046	4600		PASS	
	4.3	5825.0	0042	4200	0)	PASS	
20	3.8	5824.9	9987	-1300		PASS	
	3.6	5825.0	0024	2400		PASS	





Test mode:	802.11ac(VHT40)	Freque	ency(MHz):		5190			
Temperature (°C)	Voltage(VDC)	Measu	rement	Delta		Result			
Temperature (C)	voitage(vDC)	Frequen	cy(MHz)	Frequency(Hz)		Nesuit			
45		5190.0127		12700		PASS			
35		5190	.0110	11000)110 11000 PAS		PASS	
25	2 0)/	5190	.0104	10400		PASS			
15	3.8V	5190	.0035	3500		PASS			
5		5190	.0062	6200		PASS			
0		5190	.0078	7800		PASS			
	4.3	5189	.9910	-9000		PASS			
20	3.8	5189	.9978	-2200		PASS			
	3.6	5190	.0042	4200		PASS			

Test mode:		802.11ac(V	/HT40)	Freque	ency(N	IHz):		5230	
Temperature (°C)	Volta	rge(\/DC)	Measurement			Delta		Pos	sult
Temperature (C)	VOILA	Voltage(VDC)		Frequency(MHz)		Frequency(Hz)		Result	
45			5230.0128		12800			PAS	SS
35			5230	5230.0120 12000 PA		12000		PAS	SS
25	(C)	3.8V	5230	.0099		9900	57)	PAS	SS
15		3.0 V	5229	.9988		-1200		PAS	SS
5			5229	.9981		-1900		PAS	SS
0			5230	.0052		5200		PAS	SS
(.G)		4.3	5230	.0042	.67)	4200		PAS	SS
20		3.8	5230	.0029		2900		PAS	SS
		3.6	5229	.9978		-2200		PAS	SS

Test mode:	802.11ac	VHT40)	Freque	ency(MHz):		5270	
Temperature (°C)	Voltage(VDC)	Measu	rement	Delta		Result	
Temperature (C)	voitage(vDC)	Frequen	cy(MHz)	Frequency(Hz)		ivesuit	
45		5270.	5270.0099			PASS	
35		5270.	.0085	8500		PASS	
25	3.8V	5269.	.9961	-3900		PASS	
15	3.00	5269.	.9945	-5500		PASS	
5		5269.	.9916	-8400		PASS	
0		5270.	.0091	9100		PASS	
	4.3	5270.	.0083	8300		PASS	X
20	3.8	5269.	9955	-4500		PASS	
	3.6	5270.	.0079	7900		PASS	

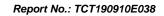




Test mode:	802.11ac(VHT40)	Frequency(MHz):			5310	
Temperature (°C)	Voltage(VDC)	Measu	rement	Delta		Result	
Temperature (C)	voitage(vDC)	Frequen	icy(MHz)	Frequency(Hz)		Nesuit	
45		5310.0103		10300		PASS	
35		5310	.0086	8600		PASS	
25	2 0)/	5310	.0046	4600		PASS	
15	3.8V	5310	.0059	5900		PASS	
5		5310	.0075	7500		PASS	
0		5310	.0089	8900		PASS	
	4.3	5310	.0073	7300		PASS	
20	3.8	5310	.0040	4000	5)	PASS	K
	3.6	5310	.0068	6800		PASS	

Test mode:		802.11ac(V	/HT40)	Freque	ency(M	Hz):		5510	
Temperature (°C)	\/o	ltage(VDC)	Measu	rement	I	Delta		Po	cult
Temperature (C)	VU	itage(VDC)	Frequency(MHz)		Frequency(Hz)		Hz)	Result	
45			5509.9906		-9400			PA	SS
35			5509	5509.9934 -6600 PA		-6600		SS	
25		3.8V	5510	.0040	4	4000	57)	PA	SS
15		3.0V	5510	.0059	:	5900		PA	SS
5			5509	.9942	_	5800		PA	SS
0			5510	.0089		3900		PA	SS
(.6)		4.3	5510	.0079	7900			PA	SS
20		3.8	5510	.0031		3100		PA	SS
		3.6	5510	.0085		3500		PA	SS

Test mode:	802.11ac	VHT40) F	reque	ency(MHz):		5590	
Temperature (°C)	Voltage(VDC)	Measuren	Measurement			Result	
Temperature (C)	voitage(vDC)	Frequency(Frequency(MHz)		Hz)	Nesuit	
45		5590.009	5590.0094			PASS	
35		5590.00	85	8500		PASS	
25	3.8V	5589.99	5589.9970			PASS	
15	3.00	5589.99	59	-4100		PASS	
5		5590.000	61	6100		PASS	
0		5590.00	79	7900		PASS	
	4.3	5590.00	81	8100	(O)	PASS	
20	3.8	5589.99	64	-3600		PASS	
	3.6	5590.00	73	7300		PASS	





Test mode:		802.11ac(V	/HT40)	Freque	ency(MH:	z):	5710	
Temperature (°C)	\/0	ltage(VDC)	Measu	rement	De	elta	Resu	l+
remperature (C)	VO	mage(VDC)	Frequency(MHz)		Frequency(Hz)		Result	
45			5710.0105		10500		PASS	3
35			5710.	.0085	85	00	PASS	3
25		2.01/	5710.	.0056	56	00	PASS	3
15		3.8V	5709.	.9937	-63	300	PASS	3
5			5709.	.9916	-84	100	PASS	3
0			5709.	.9908	-92	200	PASS	3
		4.3	5709.	.9913	-87	700	PASS	S (
20	KO	3.8	5710.0049		4900		PASS	3
		3.6	5710.	.0074	74	00	PASS	3

Test mode:		802.11ac(V	/HT40)	Freque	ency(N	1Hz):		5755	
Temperature (°C)	\/o	ltage(VDC)	Measurement			Delta		Po	cult
Temperature (C)	۷٥	itage(VDC)	Frequency(MHz)		Frequency(Hz)		Hz)	Result	
45			5755.	.0273	27300		PA	SS	
35			5755.	.0120		12000		PA	SS
25		3.8V	5755	.0117		11700	57)	PA	SS
15		3.0V	5755.	.0096		9600		PA	SS
5			5755.	5755.0035		3500		PA	SS
0			5755.	.0075		7500		PA	SS
(.6)		4.3	5755.	.0046	.61	4600		PA	SS
20		3.8	5755.	.0032		3200		PA	SS
		3.6	5755	.0063		6300		PA	SS

Test mode:	802.11ad	(VHT40)	Freque	ency(MHz):	5795	
Temperature (°C)	Voltage(VDC)	Measu	rement	Delta	Re	sult
Temperature (C)	voitage(vDC)	' Frequer	ncy(MHz)	Frequency(H	Hz)	Suit
45		5794	.9802	-19800	PA	SS
35		5794	.9843	-15700	PA	SS
25	3.8V	5795	.0045	4500	PA	SS
15	3.00	5795	.0032	3200	PA	SS
5		5795	.0029	2900	PA	SS
0		5795	.0066	6600	PA	SS
	4.3	5795	.0051	5100	PA	SS
20	3.8	5794	.9983	-1700	PA	SS
	3.6	5795	.0086	8600	PA	SS





Test mode:	802.11ac(VHT80)		Frequency(MHz):			5210		
Temperature (°C)	Voltage(VDC)	Measu	rement	Delta Frequency(Hz)		Result		
	voitage(vDC)	Frequer	icy(MHz)					
45		5210	.0098	9800		PASS		
35	3.8V	5210.0067 6700			PASS			
25		5210	.0035	3500		PASS		
15		5210	.0050	5000		PASS		
5		5210	.0084	8400		PASS		
0		5210	.0095	9500		PASS		
20	4.3	5210	.0087	8700	3	PASS		
	3.8	5210	.0062	6200	5)	PASS	K	
	3.6	5210	.0073	7300		PASS		

Test mode:		802.11ac(VHT80)		Frequency(MHz):			5290		
Temperature (°C)	Voltage(VDC)		Measurement		Delta		Result		
			Frequency(MHz)		Frequency(Hz)				
45			5289	.9902	-9800			PAS	SS
35	3.8V	5289	.9916	-8400		PAS	SS		
25		5290	.0055		5500	57)	PAS	SS	
15		5290	.0067		6700		PAS	SS	
5			5289	9924		-7600		PAS	SS
0			5290	.0094		9400		PAS	SS
(.G)		4.3	5290	.0088	.67)	8800		PAS	SS
20		3.8	5290	.0049		4900		PAS	SS
		3.6	5290	.0073		7300		PAS	SS

Test mode:	802.11ac(802.11ac(VHT80)		ency(MHz):		5530		
Temperature (°C)	Voltage(VDC)	Measurement		Delta		Result		
	voitage(vDC)	Frequenc	cy(MHz)	Frequency(Hz)		i vesuit		
45		5529.	5529.9894			PASS		
35		5529.	9935	-6500		PASS		
25	3.8V	5529.	9961	-3900		PASS		
15	3.00	5530.	0049	4900		PASS		
5		5530.	0063	6300		PASS		
0		5530.	0076	7600	T	PASS		
	4.3	5530.	8800	8800	(O	PASS		
20	3.8	5529.	9945	-5500		PASS		
	3.6	5530.	0071	7100		PASS		



Test mode:		802.11ac(V	/HT80)	30) Frequency(MHz):		5775		
Temperature (°C)	Voltage(VDC)		Measurement		Delta		Result	
	VO	itage(VDC)	Frequency(MHz)		Frequency(Hz)		i vesuit	
45			5775.0099		9900		PASS	
35	3.8V	5775.0064		6400		PASS		
25		5775.0050		5000		PASS		
15		3.00	5774.	9938	-6200		PASS	
5			5774.	9921	-7900		PASS	
0			5774.	9906	-9400		PASS	
20		4.3		0078	7800		PASS	
	100	3.8	5775.	0043	4300		PASS	
		3.6	5775.	0069	6900		PASS	





Appendix A: Photographs of Test Setup

Refer to the test report No. TCT190910E011

Appendix B: Photographs of EUT

Refer to the test report No. TCT190910E011

*****END OF REPORT****



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