FCC SAR TEST REPORT

FCC ID : 2AJN7-TP00131A

Equipment : Notebook Computer

Brand Name : Lenovo

Model Name: TP00131A; TP00131B

Applicant : LC Future Center Limited Taiwan Branch

7F., No. 780, Bei'an Rd., Zhongshan Dist., Taipei City 104, Taiwan

Manufacturer: LCFC (HeFei) Electronics Technology Co., Ltd.

No. 3188-1, Yungu Road (Hefei Export Processing Zone), Hefei Economics & Technology Development Area, Anhui, CHINA

Standard : FCC 47 CFR Part 2 (2.1093)

Equipment: Quectel EM120R-GL tested inside of Lenovo Notebook Computer.

We, SPORTON INTERNATIONAL INC., would like to declare that the tested sample provide by manufacturer and the test data has been evaluated in accordance with the test procedures given in 47 CFR Part 2.1093 and FCC KDB and has been pass the FCC requirement.

The test results in this report apply exclusively to the tested model / sample. Without written approval of SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory, the test report shall not be reproduced except in full.

Approved by: Cona Huang / Deputy Manager

Gua Guang





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SPORTON INTERNATIONAL INC. EMC & Wireless Communications Laboratory

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History of this test report

Report No. : FA0O2239-02

Report No.	Version	Description	Issued Date
FA0O2239-02	01	Initial issue of report	May. 10, 2021

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1. Statement of Compliance

The maximum results of Specific Absorption Rate (SAR) found during testing for LC Future Center Limited Taiwan Branch, Notebook Computer, TP00131A; TP00131B, are as follows.

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Equipment Class		uency and	Highest SAR Summary Body 1g SAR (W/kg)	Highest Simultaneous Transmission 1g SAR (W/kg)		
		WCDMA II	1.17			
	WCDMA	WCDMA IV	1.18			
		WCDMA V	1.18			
		LTE Band 5	1.14			
		LTE Band 7	1.18			
		LTE Band 12		LTE Band 12	1.12	
		LTE Band 13	1.18			
Licensed		LTE Band 14	1.17	1.18		
	LTE	LTE Band 2 / 25	1.13			
	LIE	LTE Band 26	1.16			
		LTE Band 30 1.14				
		LTE Band 38	1.13			
		LTE Band 41	1.08			
		LTE Band 48	1.16			
		LTE Band 4 / 66	1.17			

Sporton Lab is accredited to ISO 17025 by Taiwan Accreditation Foundation (TAF code: 1190) and the FCC designation No. TW1190 under the FCC 2.948(e) by Mutual Recognition Agreement (MRA) in FCC test. This device is in compliance with Specific Absorption Rate (SAR) for general population/uncontrolled exposure limits (1.6 W/kg for Partial-Body 1g SAR) specified in FCC 47 CFR part 2 (2.1093) and ANSI/IEEE C95.1-1992, and had been tested in accordance with the measurement methods and procedures specified in IEEE 1528-2013 and FCC KDB publications.

Reviewed by: <u>Jason Wang</u> Report Producer: <u>Carlie Tsai</u>

2. Guidance Applied

The Specific Absorption Rate (SAR) testing specification, method, and procedure for this device is in accordance with the following standards, the below KDB standard may not including in the TAF code without accreditation.

- FCC 47 CFR Part 2 (2.1093)
- ANSI/IEEE C95.1-1992
- IEEE 1528-2013
- FCC KDB 865664 D01 SAR Measurement 100 MHz to 6 GHz v01r04
- FCC KDB 865664 D02 SAR Reporting v01r02
- FCC KDB 447498 D01 General RF Exposure Guidance v06
- FCC KDB 616217 D04 SAR for laptop and tablets v01r02
- FCC KDB 941225 D01 3G SAR Procedures v03r01
- FCC KDB 941225 D05 SAR for LTE Devices v02r05
- FCC KDB 941225 D05A Rel.10 LTE SAR Test Guidance v01r02

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3. Equipment Under Test (EUT) Information

3.1 General Information

Product Feature & Specification									
Equipment Name	Notebook Computer								
Brand Name	Lenovo								
Model Name	TP00131A; TP00131B								
FCC ID	2AJN7-TP00131A								
Integrated WWAN Module	Brand Name: Quectel Model Name: EM120R-GL								
	Brand Name: Novelda AS Model Name: X4C007								
Integrated NFC Module	Brand Name: Foxconn Model Name: T77H747								
Wireless Technology and Frequency Range	LTE Band 14: 788 MHz ~ 798 MHz LTE Band 25: 1850 MHz ~ 1915 MHz LTE Band 26: 814 MHz ~ 849 MHz LTE Band 30: 2305 MHz ~ 2315 MHz LTE Band 38: 2570 MHz ~ 2620 MHz LTE Band 41: 2496 MHz ~ 2690 MHz LTE Band 48: 3550 MHz ~ 3700 MHz LTE Band 66: 1710 MHz ~ 1780 MHz UWB: 7490 MHz ~ 8450 MHz NFC: 13.56 MHz								
Mode	RMC 12.2Kbps HSDPA HSUPA DC-HSDPA LTE: QPSK, 16QAM, 64QAM UWB: Pulsed TX with pseudo random bi-phase NFC:ASK								
EUT Stage	Production Unit								
Remark:									

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Remark

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The UWB output power is -15 dBm was referring to FCC ID: 2AD9Q-X4C007, test report no.: 2711ERM.002, according to 201810 TCBC workshops the UWB output power is less than 1mW and exempt from power density testing.

^{2.} Based on original report FA0O2238 to add WLAN/BT Intel AX201D2W module to evaluation Sim-Tx analysis.

WLAN Module Information									
Integrated WLAN Module	Brand Name: Intel® Wi-Fi 6 AX201 Model Name: AX201D2W								
Wireless Technology and Frequency Range	WLAN 2.4GHz Band: 2400 MHz ~ 2483.5 MHz WLAN 5.2GHz Band: 5150 MHz ~ 5250 MHz WLAN 5.3GHz Band: 5250 MHz ~ 5350 MHz WLAN 5.6GHz Band: 5470 MHz ~ 5725 MHz WLAN 5.8GHz Band: 5725 MHz ~ 5825 MHz Bluetooth: 2400 MHz ~ 2483.5 MHz								
Mode	WLAN: 802.11a/b/g/n/ac/ax HT20/HT40/VHT20/VHT40/VHT80/VHT160/HE20/HE40/HE80/HE160 Bluetooth BR/EDR/LE								
Remark:									
1. The Intel AX201D2W is also integrated into this host, the WLAN and Bluetooth SAR results are referenced to FCC ID: PD9AX210D2, report no.: 180717-03.TR07 and the results are used to perform simultaneous transmission analysis									

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WWAN Antenna Information									
	Manufacturer	Speedwire	Peak gain(dBi)	1.70					
Main Antenna	Part number	DC33001RF40	Туре	PIFA					
Wain Antenna	Manufacturer	Amphenol Taiwan Corporation	Peak gain(dBi)	1.70					
	Part number	DC33001QG40	Type	PIFA					

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3.2 General LTE SAR Test and Reporting Considerations

Summarize	d necessary ite	ms addres	sed in KD	B 94122	25 D0 <u>5 v02</u>	r05				
FCC ID	2AJN7-TP0013									
Equipment Name	Notebook Comp	outer								
Operating Frequency Range of each LTE transmission band	LTE Band 2: 18 LTE Band 4: 17 LTE Band 5: 82 LTE Band 7: 25 LTE Band 12: 6 LTE Band 13: 7 LTE Band 25: 1 LTE Band 26: 8 LTE Band 30: 2 LTE Band 38: 2 LTE Band 48: 3 LTE Band 48: 3 LTE Band 48: 3	10 MHz ~ 1 4 MHz ~ 84 00 MHz ~ 2 99 MHz ~ 7 77 MHz ~ 7 88 MHz ~ 7 850 MHz ~ 305 MHz ~ 570 MHz ~ 496 MHz ~	755 MHz 19 MHz 1570 MHz 16 MHz 187 MHz 198 MHz 1915 MHz 1915 MHz 2315 MHz 2620 MHz 2690 MHz 3700 MHz							
Channel Bandwidth	_TE Band 66: 1710 MHz ~ 1780 MHz _TE Band 2:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz _TE Band 4:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz _TE Band 5:1.4MHz, 3MHz, 5MHz, 10MHz _TE Band 7: 5MHz, 10MHz, 15MHz, 20MHz _TE Band 12:1.4MHz, 3MHz, 5MHz, 10MHz _TE Band 13: 5MHz, 10MHz _TE Band 14: 5MHz, 10MHz _TE Band 25:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz _TE Band 26:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz _TE Band 30: 5MHz, 10MHz _TE Band 30: 5MHz, 10MHz _TE Band 30: 5MHz, 10MHz, 15MHz, 20MHz _TE Band 41: 5MHz, 10MHz, 15MHz, 20MHz _TE Band 48: 5MHz, 10MHz, 15MHz, 20MHz _TE Band 48: 5MHz, 10MHz, 15MHz, 20MHz _TE Band 66:1.4MHz, 3MHz, 5MHz, 10MHz, 15MHz, 20MHz									
uplink modulations used	QPSK / 16QAM		,	·	•					
LTE Voice / Data requirements	Data only									
	Table 6.2.2	d. Mavimi	ım Bawar	Dodusti	on (MBB)	for Bower (Slace 4 2 c	and 2		
	Table 6.2.3	5-1: Maximi	ım Power	Reducti	on (MPR)	for Power C	lass 1, 2 a	and 3		
	Modulation							MPR (dB)		
		1.4 MHz	3.0 MHz	5 MHz	10 MHz	15 MHz	20 MHz			
LTE MPR permanently built-in by design	QPSK	> 5	> 4	> 8	> 12	> 16	> 18	≤ 1		
poao, za z, acc.g	16 QAM	≤ 5	≤ 4	≤ 8	≤ 12	≤ 16	≤ 18	≤ 1		
	16 QAM	> 5	> 4	> 8	> 12	> 16	> 18	≤ 2		
	64 QAM 64 QAM	≤ 5 > 5	≤ 4 > 4	≤ 8 > 8	≤ 12 > 12	≤ 16 > 16	≤ 18 > 18	≤ 2 ≤ 3		
	256 QAM	- 0	- 4	- 0	≥1	> 10	- 10	≤ 5		
LTE A-MPR	In the base stat A-MPR during (Maximum TTI)	SAR testin	g and the	LTE S/	AR tests w	as transmit	tting on all	TTI frames		
Spectrum plots for RB configuration	A properly co measurement; t not included in t	herefore, s	pectrum pla							
Power reduction applied to satisfy SAR compliance	Yes, Proximity S									
LTE Carrier Aggregation Combinations	Intra-Band poss original SAR rep	ort, FA0O2	239.		<u> </u>		•			
LTE Carrier Aggregation Additional Information	This device sup Release feature MDH, eMBMA,	s are not s	upported: F	Relay, He	etNet, Enha	anced MIMC				

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Transmission (H, M, L) channel numbers and frequencies in each LTE band LTE Band 2 Bandwidth 1.4 MHz Bandwidth 3 MHz Bandwidth 5 MHz Bandwidth 10 MHz Bandwidth 15 MHz Bandwidth 20 MHz Freq. Freq. Freq. Freq. Freq. Freq. Ch. # Ch. # Ch. # Ch. # Ch. # Ch. # (MHz) (MHz) (MHz) (MHz) (MHz) (MHz) 18607 1850.7 18615 1851.5 18625 1852.5 18650 1855 18675 1857.5 18700 1860 18900 1880 18900 1880 18900 1880 18900 1880 18900 1880 18900 1880 Н 19193 1909.3 19185 1908.5 19175 1907.5 19150 1905 19125 1902.5 19100 1900 LTE Band 4 Bandwidth 1.4 MHz Bandwidth 3 MHz Bandwidth 5 MHz Bandwidth 10 MHz Bandwidth 15 MHz Bandwidth 20 MHz Freq. Freq. Freq. Ch. # Ch. # Ch. # Ch. # Ch. # Ch. # (MHz) (MHz) (MHz) (MHz) (MHz) (MHz) 19975 19957 19965 20000 20025 20050 1720 1710.7 1711.5 1712.5 1715 1717.5 Μ 20175 1732.5 20175 1732.5 20175 1732.5 20175 1732.5 20175 1732.5 20175 1732.5 Н 20393 1754.3 20385 1753.5 20375 1752.5 20350 1750 20325 1747.5 20300 1745 LTE Band 5 Bandwidth 1.4 MHz Bandwidth 3 MHz Bandwidth 5 MHz Bandwidth 10 MHz Ch. # Freq. (MHz) Ch. # Freq. (MHz) Ch. # Freq. (MHz) Ch. # Freq. (MHz) 20407 824.7 20415 825.5 20425 826.5 20450 829 Μ 20525 20525 836.5 20525 836.5 20525 836.5 836.5 847.5 Н 20643 848.3 20635 20625 846.5 20600 844 LTE Band 7 Bandwidth 5 MHz Bandwidth 10 MHz Bandwidth 15 MHz Bandwidth 20 MHz Ch. # Freq. (MHz) Ch. # Freq. (MHz) Ch. # Freq. (MHz) Ch. # Freq. (MHz) 20850 20775 2502.5 20800 2505 20825 2507.5 2510 Μ 21100 2535 2535 2535 21100 21100 2535 21100 Н 21425 2567.5 21400 2565 21375 2562.5 21350 2560 LTE Band 12 Bandwidth 1.4 MHz Bandwidth 3 MHz Bandwidth 5 MHz Bandwidth 10 MHz Ch. # Freq. (MHz) Freq. (MHz) Freq. (MHz) Ch. # Freq. (MHz) Ch. # Ch. # 23017 23025 23035 23060 704 699.7 700.5 701.5 Μ 23095 707.5 23095 707.5 23095 707.5 23095 707.5 Н 23173 715.3 23165 714.5 23155 713.5 23130 711 LTE Band 13 Bandwidth 5 MHz Bandwidth 10 MHz Freq.(MHz) Freq.(MHz) Channel # Channel # 23205 779.5 Μ 23230 782 23230 782 784.5 Н 23255 LTE Band 14 Bandwidth 5 MHz Bandwidth 10 MHz Channel # Freq.(MHz) Channel # Channel # 23305 790.5 М 23330 793 23330 793 Н 795.5 23355 LTE Band 25 Bandwidth 1.4 MHz Bandwidth 3 MHz Bandwidth 5 MHz Bandwidth 10 MHz Bandwidth 15 MHz Bandwidth 20 MHz Freq. Freq. Freq. Freq. Freq. Freq. Ch. # Ch. # Ch. # Ch. # Ch. # Ch. # (MHz) (MHz) (MHz) (MHz) (MHz) (MHz) 26047 1850.7 26055 1851.5 26065 1852.5 26090 1855 26115 1857.5 26140 1860 1880 Μ 26340 1880 26340 1880 26340 1880 26340 1880 26340 1880 26340 Η 26683 26675 26665 26640 26615 26590 1914.3 1913.5 1912.5 1910 1907.5 1905

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						LTE Ba	nd 26							
	Bandwid	dth 1.4 MH	z B	andwidth 3	MHz	Bandwid	lth 5 MHz		Bandw	idth 10 N	lHz	Bandv	15 MHz	
	Ch. #	Freq. (N	IHz) Cł	n.# Fre	q. (MHz	Ch. #	Freq. (MH	z)	Ch. #	Freq.	(MHz)	Ch. #	F	Freq. (MHz)
L	26697	814.7	7 26	705	815.5	26715	816.5		26740	8	19	26765		821.5
М	26865	831.5	5 26	865	831.5	26865	831.5		26865	83	1.5	26865		831.5
Н	27033	848.3	3 27	025	847.5	27015	846.5		26990	8-	44	26965		841.5
						LTE Ba	nd 30							
			Bandwid	th 5 MHz						Bandwidt	h 10 MHz	:		
		Channel #			Freq.(N	ИHz)		Char	nnel #			Freq.((MHz)
L		27685			2307									
М		27710			231			27	710			23	10	
Н		27735			2312									
						LTE Ba								
		ndwidth 5 N				10 MHz			th 15 MI			andwidt		
	Ch. #		q. (MHz)	Ch. #		Freq. (MHz)	Ch. #			. (MHz)	Ch.		Fr	eq. (MHz)
L	37775		2572.5	3780		2575	37825			577.5	378			2580
M	38000		2595	3800		2595	38000			595	380			2595
Н	38225		2617.5	3820)	2615	38175)	26	312.5	381	50		2610
	LTE Band 41 Bandwidth 5 MHz Bandwidth 10 MHz Bandwidth 15 MHz Bandwidth 20 MHz													
ŀ							1	ndwidth 15 MHz				Ch. #		
_	Ch. #		eq. (MHz)	Ch. #		Freq. (MHz)	Ch. #			. (MHz)			Fr	eq. (MHz)
L	39675		2498.5	3970)	2501	39725)	2503.5		39750		2506	
М	40148	2	2545.8	4016)	2547	40173		25	48.3	40185			2549.5
М	40620		2593	4062)	2593	40620	40620		593	40620			2593
Н	41093	1	2640.3	4108)	2639	41068		2637.8		41055		2636.5	
M H	41565		2687.5	4154	1	2685	41515		2682.5		41.4	41490		2680
П	41303	4	2007.5	4154	,	LTE Ba		,	20	002.0	414	90		2000
	Bandwidth	1 / MHz	Bandwid	th 3 MHz	Ranc	dwidth 5 MHz	Bandwidt	h 10 l	МН	Randwidt	h 15 MHz	Ran	dwid	th 20 MHz
	Ch. #	Freq.	Ch. #	Freq.	Ch.	Fred	Ch. #	Fr	eq. Hz)	Ch. #	Freq.	Ch	<u> </u>	Freq. (MHz)
L	131979	1710.7	131987	1711.5	1319		132022	_ `		132047	1717.5	132	072	1720
М	132322	1745	132322	1745	1323	22 1745	132322	17	'45	132322	1745	132	322	1745
Н	132665	1779.3	132657	1778.5	1326	47 1777.5	132622	17	75	132597	1772.5	132	572	1770
						LTE Ba	nd 48							
	Bar	ndwidth 5 N	1Hz	Baı	ndwidth	10 MHz	Ban	ndwidt	th 15 MI	Hz	В	andwidt	h 20	MHz
	Ch. #			Ch. #	ŧ	Freq. (MHz)	Ch. #	:	Freq	. (MHz)	Ch.	#	Fr	eq. (MHz)
L	55265		3552.5	5529)	3555	55315	5	35	57.5	553	40		3560
L M	55810		3607	5581	5	3607.5	55820)	3	608	558	30		3609
M H	56170		3643	5616	5	3642.5	56160)	3	642	561	50		3641
Н	56715	(3697.5	5669)	3695	56665	5	36	92.5	566	40		3690

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4. <u>RF Exposure Limits</u>

4.1 Uncontrolled Environment

Uncontrolled Environments are defined as locations where there is the exposure of individuals who have no knowledge or control of their exposure. The general population/uncontrolled exposure limits are applicable to situations in which the general public may be exposed or in which persons who are exposed as a consequence of their employment may not be made fully aware of the potential for exposure or cannot exercise control over their exposure. Members of the general public would come under this category when exposure is not employment-related; for example, in the case of a wireless transmitter that exposes persons in its vicinity.

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4.2 Controlled Environment

Controlled Environments are defined as locations where there is exposure that may be incurred by persons who are aware of the potential for exposure, (i.e. as a result of employment or occupation). In general, occupational/controlled exposure limits are applicable to situations in which persons are exposed as a consequence of their employment, who have been made fully aware of the potential for exposure and can exercise control over their exposure. The exposure category is also applicable when the exposure is of a transient nature due to incidental passage through a location where the exposure levels may be higher than the general population/uncontrolled limits, but the exposed person is fully aware of the potential for exposure and can exercise control over his or her exposure by leaving the area or by some other appropriate means.

Limits for Occupational/Controlled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.4	8.0	20.0

Limits for General Population/Uncontrolled Exposure (W/kg)

Whole-Body	Partial-Body	Hands, Wrists, Feet and Ankles
0.08	1.6	4.0

1. Whole-Body SAR is averaged over the entire body, partial-body SAR is averaged over any 1gram of tissue defined as a tissue volume in the shape of a cube. SAR for hands, wrists, feet and ankles is averaged over any 10 grams of tissue defined as a tissue volume in the shape of a cube.

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5. Simultaneous Transmission Analysis

NO.	Simultaneous Transmission Configurations	Body
1.	WWAN + WLAN2.4GHz Ant 1 + WLAN 2.4GHz Ant 2	Yes
2.	WWAN + WLAN2.4GHz Ant 2 + Bluetooth Ant 1	Yes
3.	WWAN + WLAN5GHz Ant 1 + WLAN5GHz Ant 2	Yes
4.	WWAN + WLAN5GHz Ant 1 + WLAN5GHz Ant 2 + Bluetooth Ant 1	Yes

General Note:

 The Intel AX201D2W is also integrated into this host, the WLAN and Bluetooth SAR results are referenced to Intel SAR report, FCC ID: PD9AX201D2, report no.: 180717-03.TR07 and the results are used to perform simultaneous transmission analysis.

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- 2. EUT will choose either WLAN 2.4GHz or WLAN 5GHz according to the network signal condition; therefore, 2.4GHz WLAN and 5GHz WLAN will not operate simultaneously at any moment.
- 3. The Scaled SAR summation is calculated based on the same configuration and test position.
- Per KDB 447498 D01v06, simultaneous transmission SAR is compliant if,
 - i) Scalar SAR summation < 1.6W/kg.
 - ii) SPLSR = (SAR1 + SAR2)^1.5 / (min. separation distance, mm), and the peak separation distance is determined from the square root of [(x1-x2)2 + (y1-y2)2 + (z1-z2)2], where (x1, y1, z1) and (x2, y2, z2) are the coordinates of the extrapolated peak SAR locations in the zoom scan.
 - iii) If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary.
 - iv) Simultaneously transmission SAR measurement, and the reported multi-band SAR < 1.6W/kg.

5.1 Body Exposure Conditions

<AX201D2W>

Exposure Position	1	2	3	4	5	6									
	WWAN	2.4GHz WLAN Ant 1	2.4GHz WLAN Ant 2	WLAN	WLAIN	Bluetooth Ant 1	Summed	Summed	1+4+5+6 Summed 1g SAR	1+2+3	Case	1+3+6 SPLSR	Cuoc	1+4+5+6 SPLSR	1+4+5+6 Case No
	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	1g SAR (W/kg)	_	1g SAR (W/kg)	(W/kg)	(W/kg)	(W/kg)	or Lore	No	01 2011	No	SI 2310	0400110
Bottom of Laptop at 0mm	1.184	0.590	0.530	0.730	0.790	0.040	2.304	1.754	2.744	0.02	Case 5	0.01	Case 6	0.02	Case 7

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5.2 SPLSR Evaluation and Analysis

General Note:

- 1. According to antenna location in original report FA0O2239, the minimum distance is using for SPLSR analysis
- 2. Simultaneous transmission SAR test exclusion is determined for each operating configuration and exposure condition according to the reported standalone SAR of each applicable simultaneously transmitting antenna. When the sum of 1-g or 10-g SAR of all simultaneously transmitting antennas in an operating mode and exposure condition combination is within the SAR limit, SAR test exclusion applies to that simultaneous transmission configuration. Therefore, the adjacent transmit antennas will be summed first, and then the SPLSR calculation will be evaluated with the farther transmitted antennas.

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3. SPLSR = (SAR₁ + SAR₂)^{1.5} / (*min. separation distance, mm*). If SPLSR ≤ 0.04, simultaneously transmission SAR measurement is not necessary

<AX201D2W>

	010247	B. W.	SAR	Gap	Minimum	Summed	SPLSR	Simultaneous
Case 5	Band	Position	(W/kg)	(mm)	distance (mm)	SAR (W/kg)	Results	SAR
	LTE Band 13	Bottom of Laptop	1.184	0	148.0	1.77	0.02	Not required
	2.4GHz WLAN Ant 1		0.59	0				
	LTE Band 13	Bottom of Laptop	1.184	0	305.0	1.71	0.01	Not required
	2.4GHz WLAN Ant 2		0.53	0				
	2.4GHz WLAN Ant 1	Bottom of Laptop	0.59	0	200.0	1.12	0.01	Not required
	2.4GHz WLAN Ant 2		0.53	0				
Case 6	Band	Position	SAR	Gap	Minimum distance	Summed SAR	SPLSR	Simultaneous
			(W/kg)	(mm)	(mm)	(W/kg)	Results	SAR
	LTE Band 13	Bottom of Laptop	1.184	0	305.0	1.71	0.01	Not required
	2.4GHz WLAN Ant 2		0.53	0				
	LTE Band 13	Bottom of Laptop	1.184	0	148.0	1.22	0.01	Not required
	BT Ant 1		0.04	0				
	2.4GHz WLAN Ant 2	Bottom of Laptop	0.53	0	200.0	0.57	0.00	Not required
	BT Ant 1		0.04	0				
Case 7	Band	Position	SAR	Gap	Minimum distance	Summed SAR	SPLSR	Simultaneous
			(W/kg)	(mm)	(mm)	(W/kg)	Results	SAR
	LTE Band 13	Bottom of Laptop	1.184	0	148.0	1.95	0.02	Not required
	5GHz WLAN Ant 1+BT Ant 1		0.77	0				
	LTE Band 13	Bottom of Laptop	1.184	0	305.0	1.97	0.01	Not required
	5GHz WLAN Ant 2		0.79	0				
	5GHz WLAN Ant 1+BT Ant 1	Bottom of Laptop	0.77	0	200.0	1.56	0.01	Not required
	5GHz WLAN Ant 2		0.79	0		1.50		

Test Engineer: Ken Lin and Mood Huang

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6. References

[1] FCC 47 CFR Part 2 "Frequency Allocations and Radio Treaty Matters; General Rules and Regulations"

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- [2] ANSI/IEEE Std. C95.1-1992, "IEEE Standard for Safety Levels with Respect to Human Exposure to Radio Frequency Electromagnetic Fields, 3 kHz to 300 GHz", September 1992
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