



SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen Branch

SZEMC-TRF-01 Rev. A/0 Aug01,2022

Report No.: SZCR231100358406

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RF Exposure Evaluation Report

Application No.: SZCR2311003584AT
Applicant: DT Research, Inc.
Address of Applicant: 3RD FL NO 36 WUQUAN 7TH RD WUGU DISTRICT, NEW TAIPEI, Taiwan
Manufacturer: DT Research, Inc.
Address of Manufacturer: 2000 Concourse Drive, San Jose, CA 95131, USA
Factory: DT Research, Inc. Taiwan Branch
Address of Factory: 6F., No.36 Wuquan 7th Rd., Wugu Dist. New Taipei City 248 Taiwan

Equipment Under Test (EUT):

EUT Name: Rugged Convertible Laptop
Model No.: LT355, LT355xxxxx (x= 0-9, A-Z, - or null, or., or /) ♣
 ♣ Please refer to section 4.1 of this report which indicates which model was actually tested and which were electrically identical.

Trade Mark:



FCC ID: YE3600-AX210NG
Standards: 47 CFR Part 1.1307
 47 CFR Part 1.1310
 47 CFR Part 2.1091
Date of Receipt: 2023-11-08
Date of Test: 2023-11-11 to 2023-12-12
Date of Issue: 2023-12-15

Test Result :	PASS*
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* In the configuration tested, the EUT complied with the standards specified above.

Keny Xu
EMC Laboratory Manager



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2 Version

Revision Record				
Version	Chapter	Date	Modifier	Remark
01		2023-12-15		Original

Authorized for issue by:			
		<i>Edison Li</i>	
		Edison Li/Project Engineer	
		<i>Eric Fu</i>	
		Eric Fu/Reviewer	



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4 General Information

4.1 General Description of EUT

Power supply:	<p>AC Adapter</p> <p>Model: EA12321N-1901</p> <p>Input: AC 100-240V, 3.5A, 50-60Hz</p> <p>Output: DC 19.0V, 12.1A, 230.0W</p> <p>Rechargeable lithium-Ion Polymer Battery(Battery1)</p> <p>Model: ACC-006-60K(3ICP9/36/115)</p> <p>Rated Capacity: 5400mAh</p> <p>Voltage: 11.4VDC</p> <p>Watt-Hour: 61.56Wh</p> <p>Max Charge Voltage:13.05V</p> <p>Rechargeable lithium-Ion Polymer Battery(Battery2)</p> <p>Model: ACC-006-60K(3ICP9/36/115)</p> <p>Rated Capacity: 5400mAh</p> <p>Voltage: 11.4VDC</p> <p>Watt-Hour: 61.56Wh</p> <p>Max Charge Voltage:13.05V</p>
Cable(s):	DC cable:140cm with a ferrite core
For Bluetooth Classic mode	
Operation Frequency:	2402MHz to 2480MHz
Bluetooth Version:	V5.2
Spectrum Spread Technology:	Frequency Hopping Spread Spectrum(FHSS)
Modulation Type:	GFSK, $\pi/4$ DQPSK, 8DPSK
Number of Channels:	79
Channel Spacing:	1MHz



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Antenna Type:	PIFA Antenna			
Antenna Gain:	4.3dBi			
For Bluetooth LE mode				
Operation Frequency:	2402MHz to 2480MHz			
Bluetooth Version:	V5.2			
Channel Spacing:	2MHz			
Modulation Type:	GFSK			
Number of Channels:	40			
Data rate:	1Mbps, 2Mbps			
Antenna Type:	PIFA Antenna			
Antenna Gain:	4.3dBi			
For 802.11b/g/n/ax:				
Operation Frequency:	802.11b/g/n/ax(20MHz): 2412MHz to 2472MHz 802.11n/ax(40MHz): 2422MHz to 2462MHz			
Modulation Type:	802.11b: DSSS(CCK, DQPSK, DBPSK) 802.11g/n: OFDM(QPSK, BPSK, 16QAM, 64QAM) 802.11ax: OFDMA(QPSK, BPSK, 16QAM, 64QAM, 256QAM, 1024QAM)			
Channel Numbers:	802.11b/g/n/ax(20MHz): 13 Channels 802.11n/ax(40MHz): 9 Channels			
Antenna Type:	PIFA Antenna			
Antenna Gain:	Antenna1: 4.3dBi, Antenna2: 4.6dBi Note: MIMO for Antenna1 and Antenna2.			
For 802.11a/n/ac/ax: U-NII-1, U-NII-2A, U-NII-2C, U-NII-3, U-NII-5, U-NII-6, U-NII-7, U-NII-8				
Operation Frequency:	Band	Mode	Frequency Range(MHz)	Number of channels
	UNII Band I	802.11a/n/ac/ax(20MHz)	5180-5240	4
		802.11n/ac/ax(40MHz)	5190-5230	2
		802.11ac/ax(80MHz)	5210	1
	UNII Band II-A	802.11a/n/ac/ax(20MHz)	5260-5320	4



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		802.11n/ac/ax(40MHz)	5270-5310	2
		802.11ac/ax(80MHz)	5290	1
		802.11ac/ax(160MHz)	5250	1
	UNII Band II-C	802.11a/n/ac/ax(20MHz)	5500-5720	12
		802.11n/ac/ax(40MHz)	5510-5710	6
		802.11ac/ax(80MHz)	5530-5690	3
		802.11ac/ax(160MHz)	5570	1
	UNII Band III	802.11a/n/ac/ax(20MHz)	5745-5825	5
		802.11n/ac/ax(40MHz)	5755-5795	2
		802.11ac/ax(80MHz)	5775	1
	UNII Band 5	802.11a/n/ac/ax(20MHz)	5955-6415	24
		802.11n/ac/ax(40MHz)	5965-6405	12
		802.11ac/ax(80MHz)	5985-6385	6
		802.11ac/ax(160MHz)	6025-6345	3
	UNII Band 6	802.11a/n/ac/ax(20MHz)	6435-6515	5
		802.11n/ac/ax(40MHz)	6445-6485	2
		802.11ac/ax(80MHz)	6465-6545	2
		802.11ac/ax(160MHz)	6505	1
	UNII Band 7	802.11a/n/ac/ax(20MHz)	6535-6855	17
		802.11n/ac/ax(40MHz)	6525-6845	9
		802.11ac/ax(80MHz)	6625-6785	3
		802.11ac/ax(160MHz)	6665	1
	UNII Band 8	802.11a/n/ac/ax(20MHz)	6875-7115	13
		802.11n/ac/ax(40MHz)	6885-7085	6
		802.11ac/ax(80MHz)	6865-7025	3
		802.11ac/ax(160MHz)	6985	1
Modulation Type:	802.11a: OFDM(QPSK, BPSK, 16QAM, 64QAM)			
	802.11n: OFDM(QPSK, BPSK, 16QAM, 64QAM)			



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	802.11ac: OFDM(QPSK, BPSK, 16QAM, 64QAM, 256QAM) 802.11ax: OFDMA(QPSK, BPSK, 16QAM, 64QAM, 256QAM, 1024QAM)
DFS Function:	Slave without radar detection
TPC Function:	Not support
Antenna Type:	PIFA Antenna
Antenna Gain:	Antenna1: 2.8dBi, Antenna2: 1.9dBi @5180MHz-5825MHz Antenna1: 1.8dBi, Antenna2: 1.7dBi @5955MHz-7115MHz Note: MIMO for 802.11n/ac/ax

Remark:The information in this section is provided by the applicant or manufacturer, SGS is not liable to the accuracy, suitability, reliability or/and integrity of the information.

Declaration of EUT Family Grouping:

Model No.: LT355, LT355xxxxx (x= 0-9, A-Z, - or null, or., or /)

Only the model LT355 was tested, since according to the declaration from the applicant, the electrical circuit design, layout, components used, internal wiring and functions were identical for all the above models, with only difference on model No..



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4.2 Test Location

All tests were performed at:

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Telephone: +86 (0) 755 2601 2053 Fax: +86 (0) 755 2671 0594

No tests were sub-contracted.

4.3 Test Facility

The test facility is recognized, certified, or accredited by the following organizations:

• A2LA (Certificate No. 3816.01)

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory is accredited by the American Association for Laboratory Accreditation(A2LA). Certificate No. 3816.01.

• VCCI (Member No. 1937)

The 3m Fully-anechoic chamber for above 1GHz, 10m Semi-anechoic chamber for below 1GHz, Shielded Room for Mains Port Conducted Interference Measurement and Telecommunication Port Conducted Interference Measurement of SGS-CSTC Standards Technical Services Co., Ltd. Shenzhen EMC laboratory have been registered in accordance with the Regulations for Voluntary Control Measures with Registration No.: G-20026, R-14188, C-12383 and T-11153 respectively.

• FCC –Designation Number: CN1336

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized as an accredited testing laboratory.

Designation Number: CN1336. Test Firm Registration Number: 787754.

• Innovation, Science and Economic Development Canada

SGS-CSTC Standards Technical Services Co., Ltd., Shenzhen EMC Laboratory has been recognized by ISED as an accredited testing laboratory.

CAB identifier: CN0006.

IC#: 4620C.

4.4 Deviation from Standards

None.

4.5 Abnormalities from Standard Conditions

None.

4.6 Other Information Requested by the Customer

None.



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5 RF Exposure Evaluation

5.1 RF Exposure Compliance Requirement

5.1.1 Limits

According to FCC Part1.1310: The criteria listed in the following table shall be used to evaluate the environment impact of human exposure to radio frequency (RF) radiation as specified in part1.1307(b)

TABLE 1—LIMITS FOR MAXIMUM PERMISSIBLE EXPOSURE (MPE)

Frequency range (MHz)	Electric field strength (V/m)	Magnetic field strength (A/m)	Power density (mW/cm ²)	Averaging time (minutes)
(A) Limits for Occupational/Controlled Exposures				
0.3–3.0	614	1.63	*(100)	6
3.0–30	1842/f	4.89/f	*(900/f ²)	6
30–300	61.4	0.163	1.0	6
300–1500 .....	.....	.....	f/300	6
1500–100,000 .....	.....	.....	5	6
(B) Limits for General Population/Uncontrolled Exposure				
0.3–1.34	614	1.63	*(100)	30
1.34–30	824/f	2.19/f	*(180/f ²)	30
30–300	27.5	0.073	0.2	30
300–1500 .....	.....	.....	f/1500	30
1500–100,000 .....	.....	.....	1.0	30

F= Frequency in MHz

Friis Formula

Friis transmission formula: $P_d = (P_{out} * G) / (4 * \pi * R^2)$

Where

P_d = power density in mW/cm²

P_{out} = output power to antenna in mW

G = gain of antenna in linear scale

π = 3.1416

R = distance between observation point and center of the radiator in cm

P_d is the limit of MPE, f/1500 or 1 mW/cm². If we know the maximum gain of the antenna and the total power input to the antenna, through the calculation, we will know the distance r where the MPE limit is reached.

5.1.2 Test Procedure

Software provided by client enabled the EUT to transmit and receive data at lowest, middle and highest channel individually.



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4.1.3 EUT RF Exposure Evaluation

The max tune-up tolerance power Into Antenna1 & RF Exposure Evaluation Distance:

Type	Test Freq. (MHz)	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R=25.51cm (mW/cm ²)	Limit (mW/cm ²)	MPE Ratios	Result
BT	2402	4.3	2.69	11.50	14.13	0.0046	1.0000	0.0046	PASS
BLE	2402	4.3	2.69	10.00	10.00	0.0033	1.0000	0.0033	PASS
2.4G	2412	4.3	2.69	28.99	792.50	0.2608	1.0000	0.2608	PASS
5G	5180	2.8	1.91	23.96	248.89	0.0580	1.0000	0.0580	PASS
5.8G	5745	2.8	1.91	24.32	270.40	0.0630	1.0000	0.0630	PASS
6G	5955	1.8	1.51	23.00	199.53	0.0369	1.0000	0.0369	PASS

The max tune-up tolerance power Into Antenna2 & RF Exposure Evaluation Distance:

Type	Test Freq. (MHz)	Max Antenna Gain (dBi)	Max Antenna Gain (Numeric)	Max tune-up tolerance power (dBm)	Max tune-up Tolerance power to Antenna (mW)	Power Density at R=25.51cm (mW/cm ²)	Limit (mW/cm ²)	MPE Ratios	Result
2.4G	2412	4.6	2.88	28.99	792.50	0.2795	1.0000	0.2795	PASS
5G	5180	1.9	1.55	23.96	248.89	0.0471	1.0000	0.0471	PASS
5.8G	5745	1.9	1.55	24.32	270.40	0.0512	1.0000	0.0512	PASS
6G	5955	1.7	1.48	23.00	199.53	0.0361	1.0000	0.0361	PASS

Note: Refer to report No. 200611-03 or EUT test Max Conducted Peak Output Power value.

The distancer (4th column) calculated from the Fries transmission formula is far greater than 25.51 cm separation requirement, the MPE limit of 1500MHz to 100000MHz is 1.0 mW/cm².

The antenna1 and antenna2 can synchronous transmission at the same time.

The simultaneous transmission result between of antenna1 and antenna2:

The SAR Exclusion Threshold Level:

$$=CPD1 / LPD1 + CPD2 / LPD2$$

(CPD = Calculation power density, LPD = Limit of power density)

$$= (0.2608/1) + (0.2795/1) = 0.5403 < 1$$

Since the SAR Exclusion Threshold Level is well below the SAR low threshold level, so the EUT is considered to comply with SAR requirement without testing.

- End of the Report -



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