

FCC RF Test Report

APPLICANT	:	Lenovo (Shanghai) Electronics Technology Co., Ltd.
EQUIPMENT	:	Portable Tablet Computer
BRAND NAME	:	Lenovo
MODEL NAME	:	Lenovo TB-8505X
FCC ID	:	O57TB8505X
STANDARD	:	FCC Part 15 Subpart E §15.407
CLASSIFICATION	:	(NII) Unlicensed National Information Infrastructure
TEST DATE(S)	:	Jul. 14, 2022

We, Sporton International Inc. (Kunshan), would like to declare that the tested sample has been evaluated in accordance with the test procedures and has been in compliance with the applicable technical standards.

The test results in this report apply exclusively to the tested model / sample. Without written approval of Sporton International Inc. (Kunshan), the test report shall not be reproduced except in full.

JasonJia

Approved by: Jason Jia



Sporton International Inc. (Kunshan) No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China



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REVISION HISTORY

REPORT NO.	VERSION	DESCRIPTION	ISSUED DATE
FR981204-22C	Rev. 01	Initial issue of report	Jul. 22, 2022



SUMMARY OF TEST RESUL	Т
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Report Section	FCC Rule	Description	Limit	Result	Remark
-	15.403(i)	6dB, 26dB and 99% Occupied Bandwidth	> 500kHz	Not Required	-
-	15.407(a)	Maximum Conducted Output Power	\leq 30 dBm	Not Required	-
-	15.407(a)	Power Spectral Density	≤ 30 dBm/500kHz	Not Required	-
3.1	15.407(b)	Unwanted Emissions	15.407(b)(4)(i) &15.209(a)	Pass	Under limit 8.36 dB at 17263.000 MHz
-	15.207	AC Conducted Emission	15.207(a)	Not Required	-
3.2	15.203 & 15.407(a)	Antenna Requirement	15.203 & 15.407(a)	Pass	-

Remark:

1. Not required means after assessing, test items are not necessary to carry out.

2. This is a variant report for Lenovo TB-8505X. The change note could be referred to the Class II Permissive Change letter which is exhibit separately. Based on the similarity between current and previous project, only the related test cases from original test report (Sporton Report Number FR981204-21C) were verified for the differences.

Declaration of Conformity:

The test results with all measurement uncertainty excluded are presented in accordance with the regulation limits or requirements declared by manufacturers.

Comments and Explanations:

The declared of product specification for EUT presented in the report are provided by the manufacturer, and the manufacturer takes all the responsibilities for the accuracy of product specification.



1 General Description

1.1 Applicant

Lenovo (Shanghai) Electronics Technology Co., Ltd. Section 304-305, Building No. 4, # 222, Meiyue Road, China (Shanghai) Pilot Free Trade Zone

1.2 Manufacturer

Lenovo PC HK Limited

23/F, Lincoln House, Taikoo Place 979 King's Road, Quarry Bay, Hong Kong, China

1.3 Product Feature of Equipment Under Test

Product Feature		
Equipment	Portable Tablet Computer	
Brand Name	Lenovo	
Model Name	Lenovo TB-8505X	
FCC ID	O57TB8505X	
HW Version	Lenovo TB-8505X	
SW Version	TB-8505X_RF01_220408	
EUT Stage	Identical Prototype	

Remark: The above EUT's information was declared by manufacturer. Please refer to the specifications or user's manual for more detailed description.

1.4 Modification of EUT

No modifications are made to the EUT during all test items.

1.5 Testing Location

Sporton International Inc. (Kunshan) is accredited to ISO/IEC 17025:2017 by American Association for Laboratory Accreditation with Certificate Number 5145.02.

Test Firm	Sporton International Inc. (Kunshan)				
Toot Site Loootion	No. 1098, Pengxi North Road, Kunshan Economic Development Zone Jiangsu Province 215300 People's Republic of China				
Test Site Location	TEL : +86-512-57900158				
	FAX : +86-512-57900958				
	Sporton Site No.	FCC Designation No.	FCC Test Firm		
Test Site No.	-		Registration No.		
	03CH05-KS	CN1257	314309		



1.6 Test Software

ltem	Site	Manufacturer	Name	Version
1.	03CH05-KS	AUDIX	E3	6.2009-8-24al

1.7 Applicable Standards

According to the specifications of the manufacturer, the EUT must comply with the requirements of the following standards:

- 47 CFR Part 15 Subpart E
- FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01.
- ANSI C63.10-2013

Remark:

- 1. All test items were verified and recorded according to the standards and without any deviation during the test.
- 2. This EUT has also been tested and complied with the requirements of FCC Part 15, Subpart B, recorded in a separate test report.



2 Test Configuration of Equipment Under Test

a. The EUT has been associated with peripherals and configuration operated in a manner tended to maximize its emission characteristics in a typical application. Frequency range investigated: radiation emission (9 kHz to the 10th harmonic of the highest fundamental frequency or to 40 GHz, whichever is lower). For radiated measurement, pre-scanned in three orthogonal panels, X, Y, Z. The worst cases (Z plane) were recorded in this report.

2.1 Carrier Frequency and Channel

Frequency Band	Channel	Freq. (MHz)	Channel	Freq. (MHz)
5745-5825 MHz U-NII-3	149	5745	157	5785
	151*	5755	159*	5795
	153	5765	161	5805
	155#	5775	165	5825

Note:

- 1. The above Frequency and Channel in "*" were 802.11n HT40 and 802.11ac VHT40.
- 2. The above Frequency and Channel in "[#]" were 802.11ac VHT80.

2.2 Test Mode

Final test modes are considering the modulation and worse data rates as below table.

Modulation					Data Rate		
802.11n HT40				MCS0			
U-N				III-3:5745-5825 MHz			
Ch. #		802.11a	802.11n H ⁻	T20	802.11n HT40	802.11ac VHT80	
L	Low	149	149		151	-	
М	Middle	157	157		-	155	
н	High	165	165		159	-	



2.3 Connection Diagram of Test System



2.4 EUT Operation Test Setup

For WLAN RF test items, an engineering test program was provided and enabled to make EUT continuous transmit.



3 Test Result

3.1 Unwanted Emissions Measurement

This section is to measure unwanted emissions through radiated measurement for band edge spurious emissions and out of band emissions measurement.

3.1.1 Limit of Unwanted Emissions

(1) For transmitters operating in the 5.725-5.85 GHz band:

15.407(b)(4)(i) All emissions shall be limited to a level of -27 dBm/MHz at 75 MHz or more above or below the band edge increasing linearly to 10 dBm/MHz at 25 MHz above or below the band edge, and from 25 MHz above or below the band edge increasing linearly to a level of 15.6 dBm/MHz at 5 MHz above or below the band edge, and from 5 MHz above or below the band edge increasing linearly to a level of 27 dBm/MHz at the band edge.

(2) Unwanted spurious emissions fallen in restricted bands shall comply with the general field strength limits as below table,

Frequency	Field Strength	Measurement Distance
(MHz)	(microvolts/meter)	(meters)
0.009 - 0.490	2400/F(kHz)	300
0.490 – 1.705	24000/F(kHz)	30
1.705 – 30.0	30	30
30 – 88	100	3
88 – 216	150	3
216 - 960	200	3
Above 960	500	3



EIRP (dBm)	Field Strength at 3m (dBµV/m)
- 27	68.3

Note: The following formula is used to convert the EIRP to field strength.

 $EIRP = E_{Meas} + 20log (d_{Meas}) - 104.7$

where

EIRP is the equivalent isotropically radiated power, in dBm

 E_{Meas} is the field strength of the emission at the measurement distance, in $dB\mu V/m$

d_{Meas} is the measurement distance, in m

(3) ANSI C63.10-2013 clause 12.7.3 note 97

As specified by regulatory requirements, emissions above 1000 MHz that are outside of the restricted bands are subject to a peak emission limit. However, an out-of-band emission that complies with both the average and peak general regulatory limits is not required to satisfy the peak emission limit.

3.1.2 Measuring Instruments

The measuring equipment is listed in the section 4 of this test report.



3.1.3 Test Procedures

- The testing follows FCC KDB 789033 D02 General UNII Test Procedures New Rules v02r01. Section G) Unwanted emissions measurement.
 - (1) Procedure for Unwanted Emissions Measurements Below 1000MHz
 - RBW = 120 kHz
 - VBW = 300 kHz
 - Detector = Peak
 - Trace mode = max hold

(2) Procedure for Peak Unwanted Emissions Measurements Above 1000 MHz

- RBW = 1 MHz
- VBW ≥ 3 MHz
- Detector = Peak
- Sweep time = auto
- Trace mode = max hold

(3) Procedures for Average Unwanted Emissions Measurements Above 1000MHz

- RBW = 1 MHz
- VBW = 10 Hz, when duty cycle is no less than 98 percent.
- VBW \geq 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.
- 2. The EUT was placed on a turntable with 0.8 meter for frequency below 1GHz and 1.5 meter for frequency above 1GHz respectively above ground.
- 3. The EUT was set 3 meters from the interference receiving antenna which was mounted on the top of a variable height antenna tower.
- 4. The antenna is a broadband antenna and its height is adjusted between one meter and four meters above ground to find the maximum value of the field strength for both horizontal polarization and vertical polarization of the antenna.
- 5. For each suspected emission, the EUT was arranged to its worst case and then adjust the antenna tower (from 1 m to 4 m) and turntable (from 0 degree to 360 degrees) to find the maximum reading.
- 6. For testing below 1GHz, if the emission level of the EUT in peak mode was 3 dB lower than the limit specified, then peak values of EUT will be reported, otherwise, the emissions will be repeated one by one using the CISPR quasi-peak method and reported.
- 7. For testing above 1GHz, the emission level of the EUT in peak mode was 20dB lower than peak limit (that means the emission level in average mode also complies with the limit in average mode), then peak values of EUT will be reported, otherwise, the emissions will be measured in average mode again and reported.



3.1.4 Test Setup

For radiated emissions below 30MHz



For radiated emissions from 30MHz to 1GHz





For radiated emissions above 1GHz



3.1.5 Test Results of Radiated Emissions (9 kHz ~ 30 MHz)

The low frequency, which started from 9 kHz to 30MHz, was pre-scanned and the result which was 20dB lower than the limit line was not reported.

There is a comparison data of both open-field test site and semi-Anechoic chamber, and the result came out very similar.

3.1.6 Test Result of Radiated Band Edges

Please refer to Appendix A.

3.1.7 Duty Cycle

Please refer to Appendix B.

3.1.8 Test Result of Unwanted Radiated Emission (30MHz ~ 10th Harmonic or 40GHz, whichever is lower)

Please refer to Appendix A.



3.2 Antenna Requirements

3.2.1 Standard Applicable

If transmitting antenna directional gain is greater than 6 dBi, both the peak transmit power and the peak power spectral density shall be reduced by the amount in dB that the directional gain of the antenna exceeds 6 dBi.

3.2.2 Antenna Anti-Replacement Construction

An embedded-in antenna design is used.

3.2.3 Antenna Gain

The antenna peak gain of EUT is less than 6 dBi. Therefore, it is not necessary to reduce maximum peak output power limit.



4 List of Measuring Equipment

Instrument	Manufacturer	Model No.	Serial No.	Characteristics	Calibration Date	Test Date	Due Date	Remark
EMI Test Receiver	Keysight	N9038A	MY564000 04	3Hz~8.5GHz;Ma x 30dBm	Oct. 16, 2021	Jul. 14, 2022	Oct. 15, 2022	Radiation (03CH05-KS)
EXA Spectrum Analyzer	Keysight	N9010A	MY551502 44	10Hz-44G,MAX 30dB	Mar. 24, 2022	Jul. 14, 2022	Mar. 23, 2023	Radiation (03CH05-KS)
Loop Antenna	R&S	HFH2-Z2	100321	9kHz~30MHz Oct. 30, 2021	Jul. 14, 2022	Oct. 29, 2022	Radiation (03CH05-KS)	
Bilog Antenna	TeseQ	CBL6111D	49922	30MHz-1GHz	2022, Jun. 04	Jul. 14, 2022	Jun. 03, 2023	Radiation (03CH05-KS)
Double Ridge Horn Antenna	ETS-Lindgren	3117	75957	1GHz~18GHz	Nov. 08, 2021	Jul. 14, 2022	Nov. 07, 2022	Radiation (03CH05-KS)
SHF-EHF Horn	IF Horn Com-power AH-		101070	18GHz~40GHz	Jan. 05, 2022	Jul. 14, 2022	Jan. 04, 2023	Radiation (03CH05-KS)
Amplifier	SONOMA	310N	380826	9KHz-1GHz	Jul. 11, 2022	Jul. 14, 2022	Jul. 10, 2023	Radiation (03CH05-KS)
Amplifier	MITEQ	EM18G40GG A	060728	18~40GHz	Jan. 05, 2022	Jul. 14, 2022	Jan. 04, 2023	Radiation (03CH05-KS)
high gain Amplifier	MITEQ	AMF-7D-001 01800-30-10 P	2012228	1Ghz-18Ghz	Oct. 16, 2021	Jul. 14, 2022	Oct. 15, 2022	Radiation (03CH05-KS)
Amplifier	Keysight	83017A	MY532703 16	500MHz~26.5GH z	Oct. 16, 2021	Jul. 14, 2022	Oct. 15, 2022	Radiation (03CH05-KS)
AC Power Source	Chroma	61601	F10409000 4	N/A	NCR	Jul. 14, 2022	NCR	Radiation (03CH05-KS)
Turn Table	ChamPro	EM 1000-T	060762-T	0~360 degree	NCR	Jul. 14, 2022	NCR	Radiation (03CH05-KS)
Antenna Mast	ChamPro	EM 1000-A	060762-A	1 m~4 m	NCR	Jul. 14, 2022	NCR	Radiation (03CH05-KS)

NCR: No Calibration Required



5 Uncertainty of Evaluation

The measurement uncertainties shown below were calculated in accordance with the requirements of ANSI 63.10-2013. All the measurement uncertainty value were shown with a coverage K=2 to indicate 95% level of confidence. The measurement data show herein meets or exceeds the CISPR measurement uncertainty values specified in CISPR 16-4-2 and can be compared directly to specified limit to determine compliance.

Uncertainty of Radiated Emission Measurement (30 MHz ~ 1000 MHz)

Measuring Uncertainty for a Level of Confidence	E 04P
of 95% (U = 2Uc(y))	5.VaB

Uncertainty of Radiated Emission Measurement (1000 MHz ~ 18000 MHz)

Measuring Uncertainty for a Level of Confidence	5.0dB
of 95% (U = 2Uc(y))	5.008

Uncertainty of Radiated Emission Measurement (18000 MHz ~ 40000 MHz)

Measuring Uncertainty for a Level of Confidence	E OdB
of 95% (U = 2Uc(y))	3.00B

----- THE END ------



Appendix A. Radiated Spurious Emission

						_					1		
WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		5642.8	53.59	-14.71	68.3	44.18	34.87	11.05	36.51	100	247	Р	Н
		5691.6	61.32	-37.79	99.11	51.82	34.93	11.13	36.56	100	247	Р	Н
		5718.4	76.14	-34.31	110.45	66.61	34.97	11.16	36.6	100	247	Р	Н
		5724.8	77.53	-44.31	121.84	67.98	34.97	11.18	36.6	100	247	Р	Н
		5851.6	55.18	-63.47	118.65	45.46	35.11	11.33	36.72	100	247	Р	Н
		5863.6	53.05	-55.44	108.49	43.32	35.13	11.34	36.74	100	247	Р	Н
		5875.6	51.8	-53.05	104.85	42.04	35.16	11.36	36.76	100	247	Р	Н
		5974.8	51.06	-17.24	68.3	41.19	35.28	11.45	36.86	100	247	Р	Н
802.11n		5752	103.63			94.04	35.01	11.21	36.63	100	247	Р	Н
HT40		5752	96.31			86.72	35.01	11.21	36.63	100	247	А	Н
CH 151		5647.6	54.65	-13.65	68.3	45.21	34.87	11.08	36.51	207 90		Р	V
5755MHz		5698	58.46	-45.37	103.83	48.96	34.93	93 11.13 36.56		207	90	Р	V
		5717.2	74.59	-35.53	110.12	65.06	34.95	11.16	36.58	207	90	Р	V
		5722	66.67	-48.79	115.46	57.12	34.97	11.18	36.6	207	90	Р	V
		5850	53.25	-69.05	122.3	43.53	35.11	11.33	36.72	207	90	Р	V
		5870.4	52.19	-54.4	106.59	42.46	35.13	11.34	36.74	207	90	Р	V
		5892.8	51.88	-40.21	92.09	42.09	35.18	11.38	36.77	207	90	Р	V
		5929.2	52.37	-15.93	68.3	42.56	35.22	11.4	36.81	207	90	Р	V
		5758	104.04			94.45	35.01	11.21	36.63	207	90	Р	V
		5758	95.98			86.39	35.01	11.21	36.63	207	90	А	V
Remark	1. No 2. All	o other spurious results are PA	s found. SS against F	eak and	I Average lim	it line.							

UNII-3 - 5725~5850MHz

WIFI 802.11n HT40 (Band Edge @ 3m)



UNII-3	5725~5850MHz

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	ntenna Path		Ant	Table	Peak	Pol.
Ant.				Limit Line L		Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11n		11510	45.44	-28.56	74	57.35	38.2	16.37	66.48	300	0	Р	Н
HT40		17252	55.9	-12.4	68.3	58.91	41.7	20.16	64.87	300	0	Р	Н
CH 151		11510	45.02	-28.98	74	56.93	38.2	16.37	66.48	100	0	Р	V
5755MHz		17263	59.94	-8.36	68.3	62.94	41.69	20.18	64.87	100	0	Р	V
Remark	1. No 2. All	o other spurious results are PAS	found. SS against F	eak and	Average lim	it line.							

WIFI 802.11n HT40 (Harmonic @ 3m)

Emission below 1GHz

WIFI 802.11n HT40 (LF @ 3m)

WIFI	Note	Frequency	requency Level Over Limit Read Anten		Antenna	Path	Preamp	Ant	Table	Peak	Pol.		
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
		30	19.7	-20.3	40	26.19	25.5	0.71	32.7	-	-	Р	Н
		48.43	17.29	-22.71	40	33.44	15.77	1.05	32.97	-	-	Р	Н
		178.41	20.77	-22.73	43.5	34.89	16.82	2.03	32.97	-	-	Р	н
		259.89	19.07	-26.93	46	30.11	19.56	2.46	33.06	-	-	Ρ	Н
000 (4)		568.35	24.4	-21.6	46	27.57	25.75	3.64	32.56	-	-	Ρ	Н
802.11n		839.95	27.71	-18.29	46	28.73	27.14	4.42	32.58	-	-	Р	н
		30.97	29.51	-10.49	40	36.62	24.98	0.71	32.8	-	-	Ρ	V
-		57.16	25.07	-14.93	40	43.22	13.88	1.13	33.16	-	I	Ρ	V
		172.59	18.87	-24.63	43.5	32.85	16.96	2	32.94	-	-	Р	V
		336.52	19.18	-26.82	46	28.21	21.08	2.79	32.9	-	-	Ρ	V
		632.37	26.05	-19.95	46	29.08	25.76	3.84	32.63	-	-	Ρ	V
		762.35	27.53	-18.47	46	29.36	26.6	4.22	32.65	-	I	Ρ	V
Remark 1. No other spurious found. 2. All results are PASS against limit line.													



Note symbol

*	Fundamental Frequency which can be ignored. However, the level of any							
	unwanted emissions shall not exceed the level of the fundamental frequency.							
!	Test result is over limit line.							
P/A	Peak or Average							
H/V	Horizontal or Vertical							



A calculation example for radiated spurious emission is shown as below:

WIFI	Note	Frequency	Level	Over	Limit	Read	Antenna	Path	Preamp	Ant	Table	Peak	Pol.
Ant.				Limit	Line	Level	Factor	Loss	Factor	Pos	Pos	Avg.	
1		(MHz)	(dBµV/m)	(dB)	(dBµV/m)	(dBµV)	(dB/m)	(dB)	(dB)	(cm)	(deg)	(P/A)	(H/V)
802.11b		2390	55.45	-18.55	74	54.51	32.22	4.58	35.86	103	308	Р	н
CH 01													
2412MHz		2390	43.54	-10.46	54	42.6	32.22	4.58	35.86	103	308	А	н

- 1. Path Loss(dB) = Cable loss(dB) + Filter loss(dB) + Attenuator loss(dB)
- 2. Level(dBµV/m) = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- 3. Over $Limit(dB) = Level(dB\mu V/m) Limit Line(dB\mu V/m)$

For Peak Limit @ 2390MHz:

- 1. Level(dB μ V/m)
- = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- = 32.22(dB/m) + 4.58(dB) + 54.51(dBµV) 35.86 (dB)
- = 55.45 (dBµV/m)
- 2. Over Limit(dB)
- = Level(dB μ V/m) Limit Line(dB μ V/m)
- $= 55.45(dB\mu V/m) 74(dB\mu V/m)$
- = -18.55(dB)

For Average Limit @ 2390MHz:

- 1. Level(dBµV/m)
- = Antenna Factor(dB/m) + Path Loss(dB) + Read Level(dBµV) Preamp Factor(dB)
- $= 32.22(dB/m) + 4.58(dB) + 42.6(dB\mu V) 35.86 (dB)$
- = 43.54 (dBµV/m)
- 2. Over Limit(dB) = Level(dB μ V/m) Limit Line(dB μ V/m)
- $= 43.54(dB\mu V/m) 54(dB\mu V/m)$
- = -10.46(dB)

Both peak and average measured complies with the limit line, so test result is "PASS".



Appendix B. Duty Cycle Plots

Band	Duty Cycle(%)	T(ms)	1/T(kHz)	VBW Setting	
802.11n HT40	94.90	0.651	1.536	1.6KHz	

802.11n HT40

Spectrum Anal Swept SA	yzer 1	,	+							Marker	- * 影
	Input: F Couplin Align: C	re Ng: DC M	Input Z: 50 Ω Corrections: Off Freq Ref: Int (S)	#Atten: 20 dB	PNO: Gate: IF Ga	Fast Off in: Low	#Avg Type: I Trig: Free R	Power (RMS un	123456 WW\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	Select Marker Marker 3	
1 Spectrum		v		Defi evel 446.00	Sig II	rack: Uff		ΔMkr3	686.0 µs	Marker ∆ Time 686.000 µs	Settings
Scale/Div 10 0 Log 107 97.0 87.0	18 Marina	4 nd (),	and a second second second	ref Level 116.99	23Δ1	inducity.	apuntrishingk		araburtentitura	Marker Mode Normal Ο Delta (Δ)	Peak Search Pk Search Config
77,0 67,0 57,0 47,0		4			25					Fixed	Properties Marker Function
37.0 27.0 Center 5.1900 Res BW 8 MH	00000 Q	Hz		#Video BW 8.0	MHz		Sw	eep 2.00 n	Span 0 Hz ns (1001 pts)	Delta Marker (Reset Delta)	Marker→ Counter
5 Marker Table Mode 1 N 2 Δ1 3 Δ1 4 5 6	Trace 1 1	▼ Scale t t	X 385.0 μs (Δ) 651.0 μs (Δ) 686.0 μs	Υ 98.50 dBμV 5 (Δ) 5.698 dB (Δ) 0.03822 dB	Fund	tion Fu	Inction Width	Fund	ion Value	Marker Settings Off Marker Settings Diagram All Markers Off Couple Markers Off	