

Annex 1: Measurement diagrams to

TEST REPORT No.: 18-1-0130902T05a-C1

According to:

#### **FCC Regulations**

Part 15.205 Part 15.209 Part 15.247

#### **ISED-Regulations**

RSS-Gen, Issue 5 RSS-247, Issue 2

for

### Vorwerk Elektrowerke GmbH & Co. KG

# Thermomix TM6-5 Household equipment with WLAN

FCC ID: 2AGELTM65 ISED: 20889-TM65

#### Laboratory Accreditation



#### accredited according to DIN EN ISO/IEC 17025

#### **CETECOM GmbH**

Laboratory Radio Communications & Electromagnetic Compatibility Im Teelbruch 116 • 45219 Essen • Germany Registered in Essen, Germany, Reg. No.: HRB Essen 8984 Tel.: + 49 (0) 20 54 / 95 19-954 • Fax: + 49 (0) 20 54 / 95 19-964 E-mail: info@cetecom.com • Internet: www.cetecom.com

Laboratory Accreditation



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### 1. Conducted emissions on AC-Power lines

# 1.01\_BT\_TX

#### **Common Information**

Test Description: Conducted Voltage Measurement Class B
Test Site & Location: Conducted Emission, CETECOM GmbH Essen

Test Software: R&S EMC32 v9.15
Test Specification: EN 55022
Operating Mode: BT TX Ch0
Measured on line: N/L1

Diagram details: Shows the peak values as a sum of measured ports in maxhold mode

Environmental Conditions: Humidity: 45%rH; Temperature: 20°C

Operator: JVo Comments: 120V AC

#### **EUT Information**

EUT Name: Thermomix

Manufacturer: Vorwerk Elektroware GmbH & Co KG.

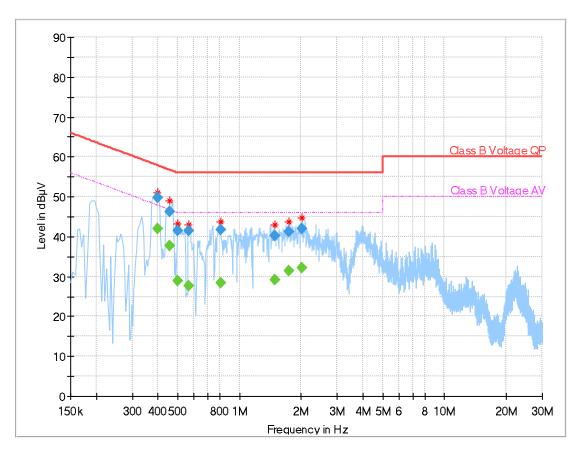
Serial Number: 18434212024100415

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615

Comment: 120V AC

#### Full Spectrum





### Final\_Result

Frequency (MHz)	QuasiP eak	CAvera ge	Limit (dBµV)	Margi n	Bandwidt h	Corr
	(dBµV)	(dBµV)		(dB)	(kHz)	(dB)
0.400000		41.90	47.85	5.95	9.000	0.1
0.400000	49.72		57.85	8.13	9.000	0.1
0.454688		37.60	46.79	9.19	9.000	0.1
0.454688	46.30		56.79	10.49	9.000	0.1
0.501563		28.80	46.00	17.20	9.000	0.1
0.501563	41.56		56.00	14.44	9.000	0.1
0.564063	-	27.55	46.00	18.45	9.000	0.1
0.564063	41.41		56.00	14.59	9.000	0.1
0.810156		28.49	46.00	17.51	9.000	0.2
0.810156	41.62		56.00	14.38	9.000	0.2
1.485938		29.12	46.00	16.88	9.000	0.3
1.485938	40.31		56.00	15.69	9.000	0.3
1.751563		31.41	46.00	14.59	9.000	0.3
1.751563	41.24		56.00	14.76	9.000	0.3
2.025000		32.29	46.00	13.71	9.000	0.3
2.025000	42.01		56.00	13.99	9.000	0.3



# 2. Conducted RF Measurements on Antenna Port

### 2.1. Duty Cycle

### **EUT Information**

EUT Name: Thermomix TM6-5

Manufacturer: Vorwerk Elektrowerke GmbH & Co KG. Product: Household equipment with WLAN

Serial Number: 18434212024100545

Hardware Rev: 13

 Software Rev:
 0.18.109-201808300615

 Comment:
 120V AC 60Hz

	DUT	DutyCycle	DutyCycle
Modulation	Frequency	(%)	(dB)
	(MHz)		
	2402	77,191	1,124
DH5	2440	77,195	1,124
	2480	77,209	1,123
	2402	65,930	1,809
2DH3	2440	65,936	1,809
	2480	65,947	1,808
	2402	65,870	1,813
3DH3	2440	65,876	1,183
	2480	65,885	1,182



### 2.2. Peak Power Conducted

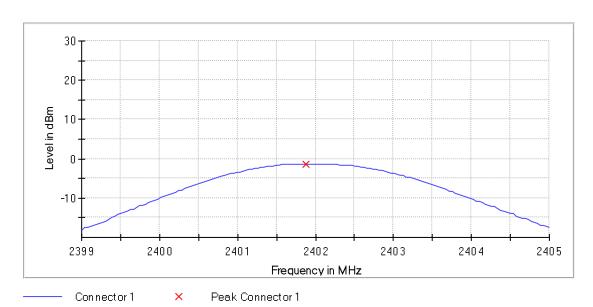
Max. Antenna Gain at 2442 MHz: -2,4 dBi

Modulation	DUT Frequency (MHz)	Peak Power (dBm)	Antenna Gain (dBi)	EIRP (dBm)
	2402	-1,5	-2,4	-3,9
DH1	2441	-1,23	-2,4	-3,63
	2480	-1,95	-2,4	-4,35
	2402	-1,52	-2,4	-3,92
DH3	2441	-1,24	-2,4	-3,64
	2480	-1,98	-2,4	-4,38
	2402	-1,30	-2,4	-3,7
DH5	2441	-1,10	-2,4	-3,5
	2480	-1,80	-2,4	-4,2
	2402	0,04	-2,4	-2,36
2DH1	2441	-0,02	-2,4	-2,42
	2480	-0,93	-2,4	-3,37
	2402	0,07	-2,4	-2,33
2DH3	2441	0,05	-2,4	-2,35
	2480	-0,88	-2,4	-3,28
	2402	0,03	-2,4	-2,37
2DH5	2441	-0,05	-2,4	-2,45
	2480	-0,98	-2,4	-3,38
	2402	0,37	-2,4	-2,03
3DH1	2441	0,24	-2,4	-2,16
	2480	-0,68	-2,4	-4,08
	2402	0,57	-2,4	-1,93
3DH3	2441	0,45	-2,4	-1,95
	2480	-0,58	-2,4	-2,98
	2402	0,45	-2,4	-1,95
3DH5	2441	0,30	-2,4	-2,1
	2480	-0,56	-2,4	-2,96

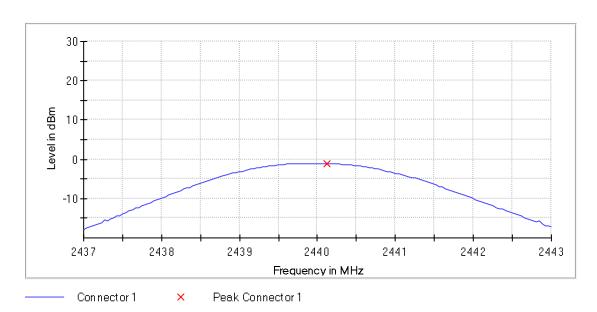


# DH5 Channel 0, 39, 78

DUT Frequency	Peak Power	Limit Max	Result
(MHz)	(dBm)	(dBm)	
2402.000000	-1.3	21.0	PASS

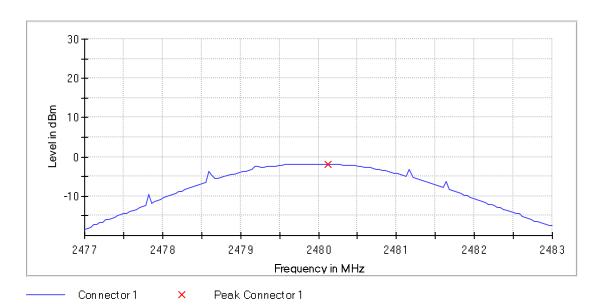


DUT Frequency	Peak Power	Limit Max	Result
(MHz)	(dBm)	(dBm)	
2440.000000	-1.1	21.0	PASS





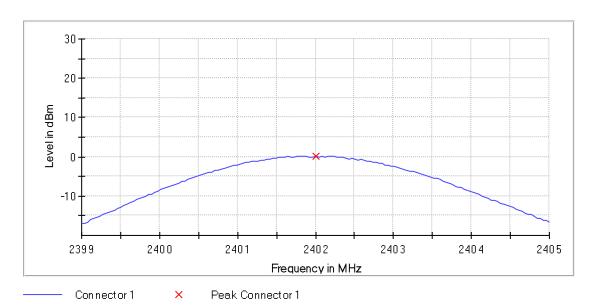
DUT Frequency	Peak Power	Limit Max	Result
(MHz)	(dBm)	(dBm)	
2480.000000	-1.8	21.0	PASS



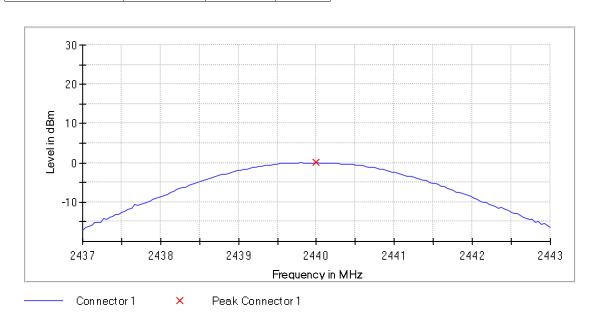


# 2-DH3 Channel 0, 39, 78

DUT Frequency	Peak Power	Limit Max	Result
(MHz)	(dBm)	(dBm)	
2402.000000	0.1	21.0	PASS

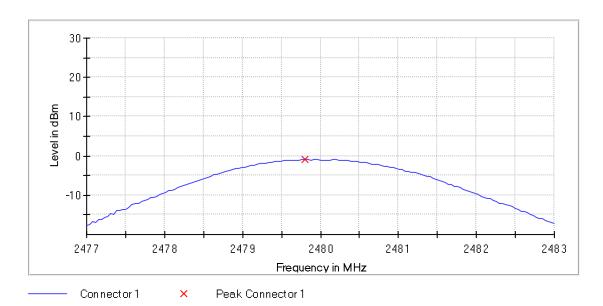


DUT Frequency	Peak Power	Limit Max	Result
(MHz)	(dBm)	(dBm)	
2440 000000	0.1	21 0	PASS





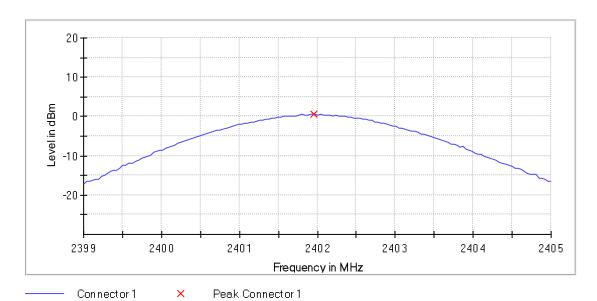
DUT Frequen (MHz)	су	Peak Power (dBm)	Limit Max (dBm)	Result
2480.00	00000	-0.9	21.0	PASS



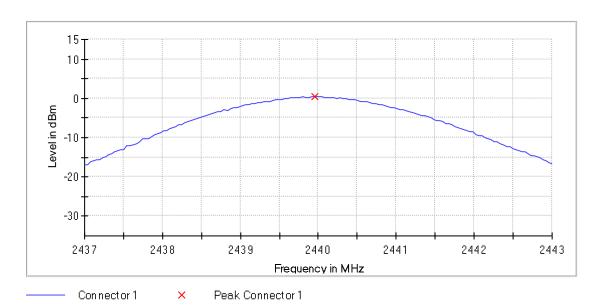


# 3-DH3 Channel 0, 39, 78

DUT Frequency	Peak Power	Limit Max	Result
(MHz)	(dBm)	(dBm)	
2402.000000	0.6	21.0	PASS

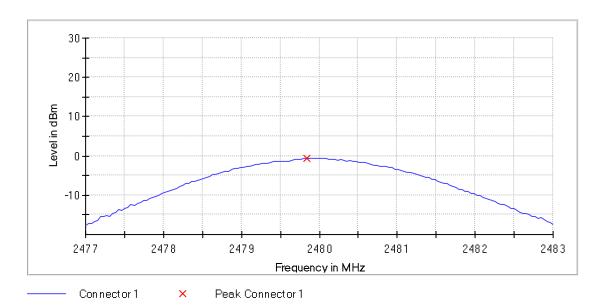


DUT Frequency	Peak Power	Limit Max	Result
(MHz)	(dBm)	(dBm)	
2440.000000	0.4	21.0	PASS





DUT Frequency	Peak Power	Limit Max	Result
(MHz)	(dBm)	(dBm)	
2480.000000	-0.6	21.0	PASS

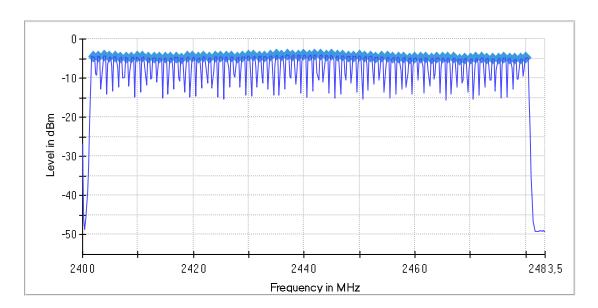




# 2.3. Number of Hopping Frequencies

# **Channels**

Channels	Limit Min	Limit Max	Result
79	15		PASS





#### 2.4. 20dB Emission Bandwidth

#### 2.4.1. DH5

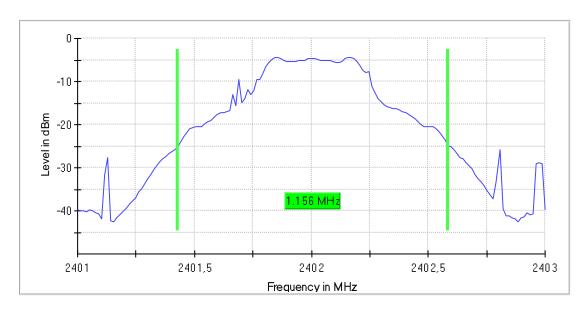
### Emission Bandwidth 20 dB (2402 MHz; 8,000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 \$15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.155845			2401.428571	2402.584416

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-4.5	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	15 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.01 dB	0.50 dB



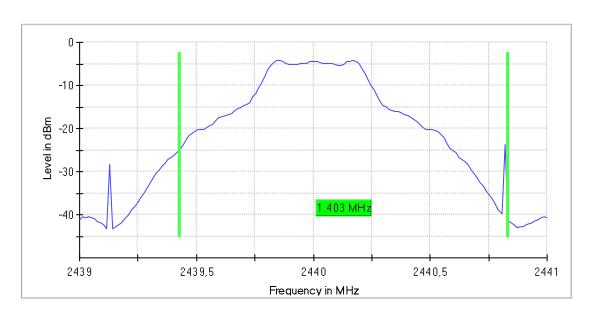
### Emission Bandwidth 20 dB (2440 MHz; 8,000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.402598			2439.428571	2440.831169

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	-4.3	PASS



Setting	Instrument Value	Target Value				
Start Frequency	2.43900 GHz	2.43900 GHz				
Stop Frequency	2.44100 GHz	2.44100 GHz				
Span	2.000 MHz	2.000 MHz				
RBW	100.000 kHz	~ 100.000 kHz				
VBW	300.000 kHz	>= 300.000 kHz				
SweepPoints	155	~ 40				
Sweeptime	2.500 ms	AUTO				
Reference Level	-10.000 dBm	-10.000 dBm				
Attenuation	15.000 dB	AUTO				
Detector	MaxPeak	MaxPeak				
SweepCount	200	200				
Filter	3 dB	3 dB				
Trace Mode	Max Hold	Max Hold				
Sweeptype	Sweep	AUTO				
Preamp	off	off				
Stablemode	Trace	Trace				
Stablevalue	0.50 dB	0.50 dB				
Run	7 / max. 150	max. 150				
Stable	5/5	5				
Max Stable Difference	0.00 dB	0.50 dB				



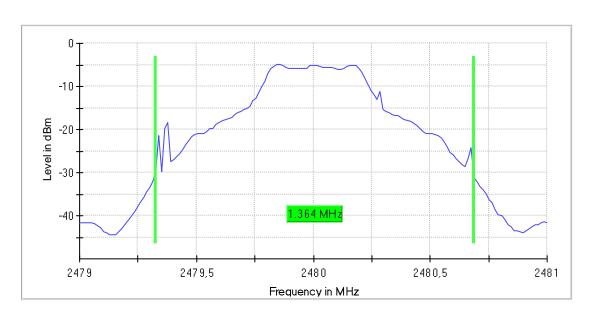
### Emission Bandwidth 20 dB (2480 MHz; 8,000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.363637			2479.324675	2480.688312

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-5.0	PASS



Setting	Instrument Value	Target Value			
Start Frequency	2.47900 GHz	2.47900 GHz			
Stop Frequency	2.48100 GHz	2.48100 GHz			
Span	2.000 MHz	2.000 MHz			
RBW	100.000 kHz	~ 100.000 kHz			
VBW	300.000 kHz	>= 300.000 kHz			
SweepPoints	155	~ 40			
Sweeptime	2.500 ms	AUTO			
Reference Level	-10.000 dBm	-10.000 dBm			
Attenuation	15.000 dB	AUTO			
Detector	MaxPeak	MaxPeak			
SweepCount	200	200			
Filter	3 dB	3 dB			
Trace Mode	Max Hold	Max Hold			
Sweeptype	Sweep	AUTO			
Preamp	off	off			
Stablemode	Trace	Trace			
Stablevalue	0.50 dB	0.50 dB			
Run	7 / max. 150	max. 150			
Stable	5/5	5			
Max Stable Difference	0.14 dB	0.50 dB			



#### 2.4.2. 2-DH3

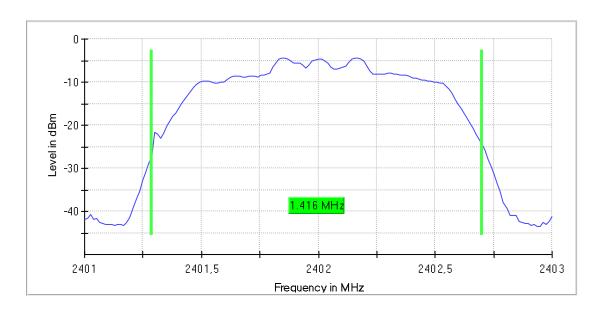
### Emission Bandwidth 20 dB (2402 MHz; 8,000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.415585			2401.285714	2402.701299

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency	Max Level	Result
(MHz)	(dBm)	
2402.000000	-4.5	PASS



Setting	Instrument Value	Target Value					
Start Frequency	2.40100 GHz	2.40100 GHz					
Stop Frequency	2.40300 GHz	2.40300 GHz					
Span	2.000 MHz	2.000 MHz					
RBW	100.000 kHz	~ 100.000 kHz					
VBW	300.000 kHz	>= 300.000 kHz					
SweepPoints	155	~ 40					
Sweeptime	2.500 ms	AUTO					
Reference Level	0.000 dBm	0.000 dBm					
Attenuation	25.000 dB	AUTO					
Detector	MaxPeak	MaxPeak					
SweepCount	200	200					
Filter	3 dB	3 dB					
Trace Mode	Max Hold	Max Hold					
Sweeptype	Sweep	AUTO					
Preamp	off	off					
Stablemode	Trace	Trace					
Stablevalue	0.50 dB	0.50 dB					
Run	8 / max. 150	max. 150					
Stable	5/5	5					
Max Stable Difference	0.05 dB	0.50 dB					



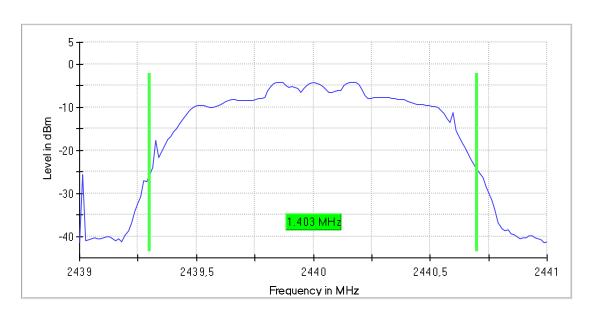
### Emission Bandwidth 20 dB (2440 MHz; 8,000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 §15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.402598	-		2439.298701	2440.701299

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency	Max Level	Result
(MHz)	(dBm)	
2440.000000	-4.2	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44100 GHz	2.44100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.00 dB	0.50 dB



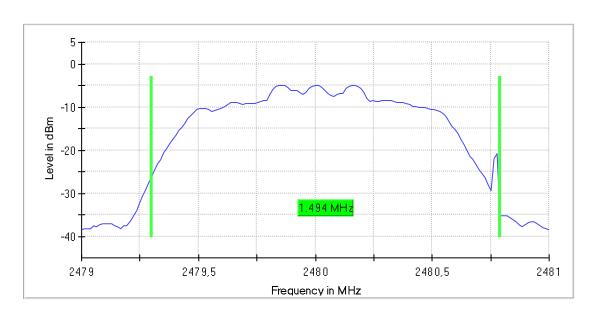
### Emission Bandwidth 20 dB (2480 MHz; 8,000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.493507			2479.298701	2480.792208

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
(IVITIZ)	(ubili)	
2480.000000	-4.9	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.07 dB	0.50 dB



#### 2.4.3. 3-DH3

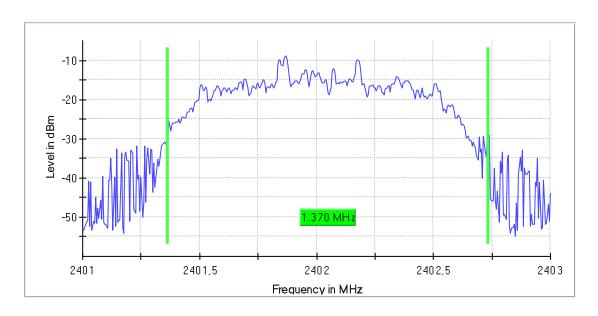
### Emission Bandwidth 20 dB (2402 MHz; 8,000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.370000			2401.365000	2402.735000

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-8.9	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.10 dB	0.50 dB



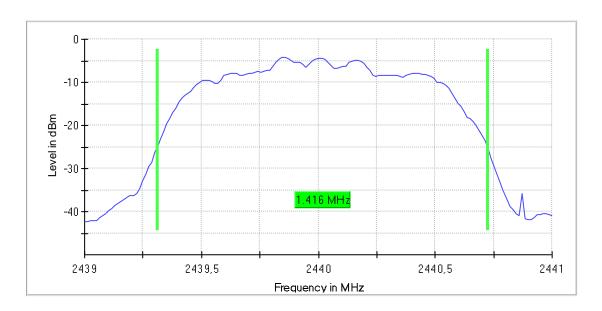
### Emission Bandwidth 20 dB (2440 MHz; 8,000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.415585			2439.311688	2440.727273

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	-4.3	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44100 GHz	2.44100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.09 dB	0.50 dB



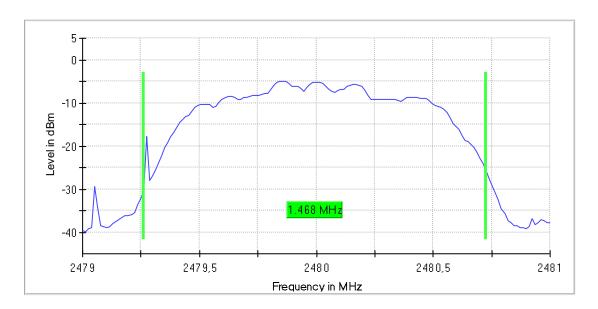
### Emission Bandwidth 20 dB (2480 MHz; 8,000 dBm; 1 MHz; Test Mode)

Test according to FCC title 47 part 15 15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.467533		-	2479.259740	2480.727273

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-4.9	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.13 dB	0.50 dB



### 2.5. 99 % Occupied Bandwidth

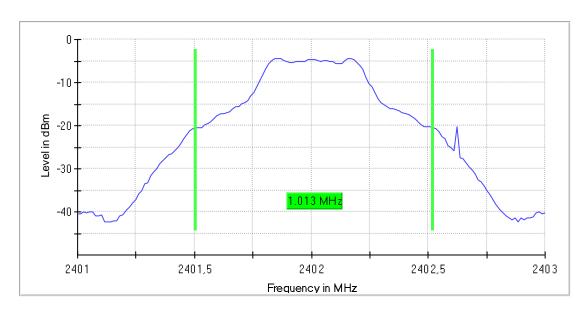
### 2.5.1. DH5

### 99% Occupied Bandwidth (2402 MHz; 8,000 dBm; 1 MHz; Test Mode)

	DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
I	2402.000000	1.012987			2401.506494	2402.519481

(continuation of the "99% Occupied Bandwidth" table from column 6...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-4.4	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.03 dB	0.50 dB

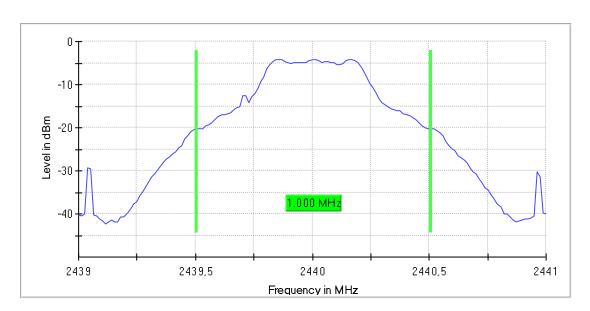


# 99% Occupied Bandwidth (2440 MHz; 8,000 dBm; 1 MHz; Test Mode)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.000000			2439.506494	2440.506494

(continuation of the "99% Occupied Bandwidth" table from column  $\ 6 \dots$ )

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	-4.2	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44100 GHz	2.44100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.05 dB	0.50 dB

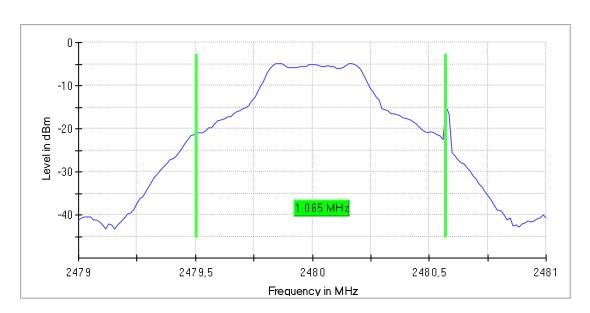


# 99% Occupied Bandwidth (2480 MHz; 8,000 dBm; 1 MHz; Test Mode)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.064935			2479.506494	2480.571429

(continuation of the "99% Occupied Bandwidth" table from column  $\ 6 \dots$ )

DUT Frequency	Max Level	Result
(MHz)	(dBm)	
2480.000000	-4.9	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.01 dB	0.50 dB



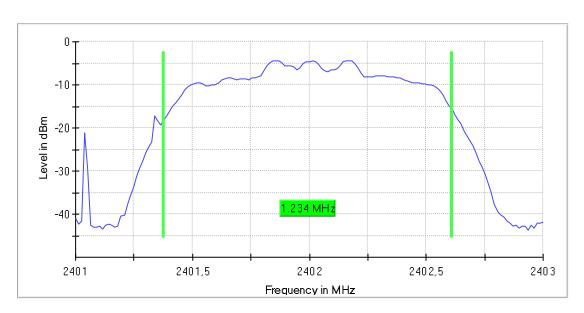
### 2.5.2. 2-DH3

### 99% Occupied Bandwidth (2402 MHz; 8,000 dBm; 1 MHz; Test Mode)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.233767			2401.376623	2402.610390

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-4.4	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	11 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.03 dB	0.50 dB

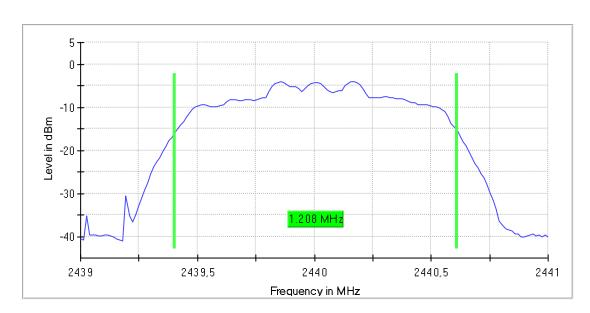


# 99% Occupied Bandwidth (2440 MHz; 8,000 dBm; 1 MHz; Test Mode)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.207793			2439.402597	2440.610390

#### (continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency	Max Level	Result
(MHz)	(dBm)	
2440.000000	-4.2	PASS



Setting	Instrument	Target Value
	Value	
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44100 GHz	2.44100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	9 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.12 dB	0.50 dB

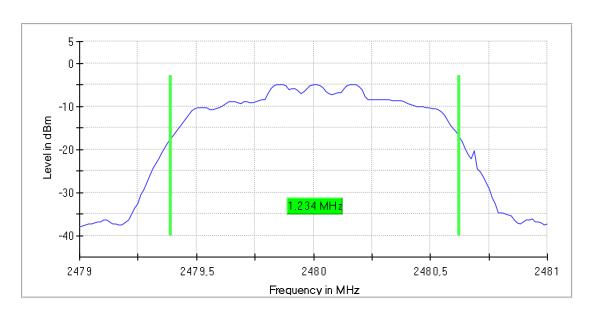


# 99% Occupied Bandwidth (2480 MHz; 8,000 dBm; 1 MHz; Test Mode)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.233767			2479.389610	2480.623377

#### (continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2480.000000	-4.9	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.11 dB	0.50 dB



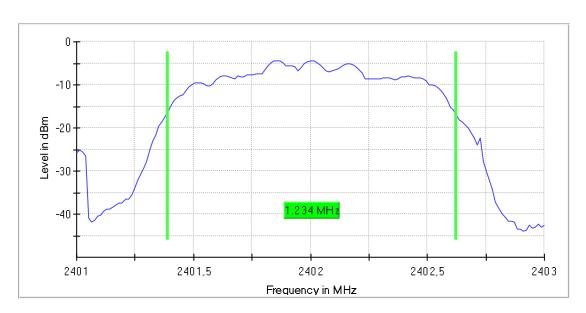
### 2.5.3. 3-DH3

### 99% Occupied Bandwidth (2402 MHz; 8,000 dBm; 1 MHz; Test Mode)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2402.000000	1.233767			2401.389610	2402.623377

(continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2402.000000	-4.4	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40300 GHz	2.40300 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.03 dB	0.50 dB

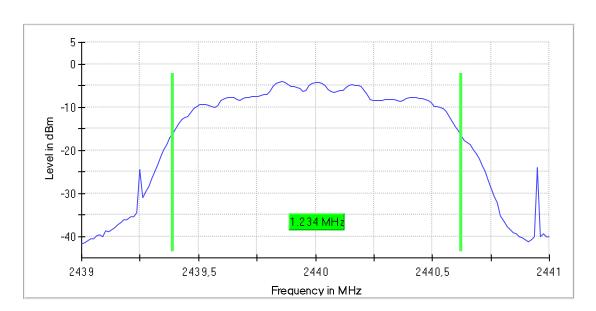


# 99% Occupied Bandwidth (2440 MHz; 8,000 dBm; 1 MHz; Test Mode)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2440.000000	1.233767			2439.389610	2440.623377

#### (continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency (MHz)	Max Level (dBm)	Result
2440.000000	-4.2	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.43900 GHz	2.43900 GHz
Stop Frequency	2.44100 GHz	2.44100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	7 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.02 dB	0.50 dB

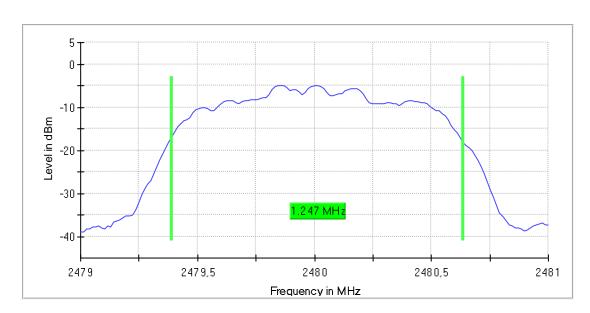


# 99% Occupied Bandwidth (2480 MHz; 8,000 dBm; 1 MHz; Test Mode)

DUT Frequency (MHz)	Bandwidth (MHz)	Limit Min (MHz)	Limit Max (MHz)	Band Edge Left (MHz)	Band Edge Right (MHz)
2480.000000	1.246754			2479.389610	2480.636364

#### (continuation of the "20 dB Bandwidth" table from column 6 ...)

DUT Frequency	Max Level	Result
(MHz)	(dBm)	
2480.000000	-4.9	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.47900 GHz	2.47900 GHz
Stop Frequency	2.48100 GHz	2.48100 GHz
Span	2.000 MHz	2.000 MHz
RBW	100.000 kHz	~ 100.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 40
Sweeptime	2.500 ms	AUTO
Reference Level	0.000 dBm	0.000 dBm
Attenuation	25.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	AUTO
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	8 / max. 150	max. 150
Stable	5/5	5
Max Stable Difference	0.05 dB	0.50 dB



### 2.6. Carrier Frequency Separation

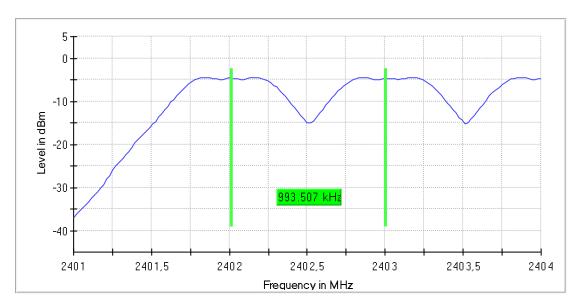
### Carrier Frequency Separation (2402 MHz; 8,000 dBm; 1 MHz)

Test according to FCC title 47 part 15 15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2402.000000	0.993507	0.770563		2402.012987	2403.006494

(continuation of the "Result" table from column 6 ...)

DUT Frequency	Result
(MHz)	
2402.000000	PASS



Setting	Instrument Value	Target Value
Start Frequency	2.40100 GHz	2.40100 GHz
Stop Frequency	2.40400 GHz	2.40400 GHz
Span	3.000 MHz	3.000 MHz
RBW	300.000 kHz	<= 300.000 kHz
VBW	300.000 kHz	>= 300.000 kHz
SweepPoints	155	~ 10
Sweeptime	2.500 ms	AUTO
Reference Level	-10.000 dBm	-10.000 dBm
Attenuation	15.000 dB	AUTO
Detector	MaxPeak	MaxPeak
SweepCount	200	200
Filter	3 dB	3 dB
Trace Mode	Max Hold	Max Hold
Sweeptype	Sweep	Sweep
Preamp	off	off
Stablemode	Trace	Trace
Stablevalue	0.50 dB	0.50 dB
Run	13 / max. 150	max. 150
Stable	10 / 10	10
Max Stable Difference	0.11 dB	0.50 dB



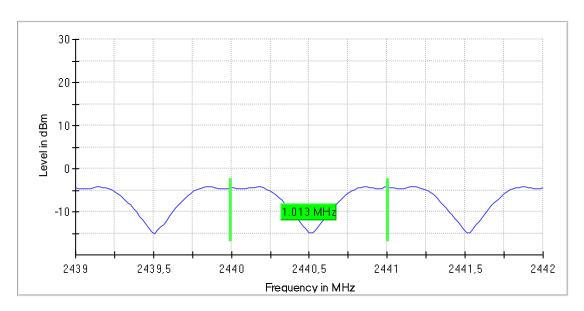
### Carrier Frequency Separation (2440 MHz; 8,000 dBm; 1 MHz)

Test according to FCC title 47 part 15 15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2440.000000	1.012988	0.935065		2439.993506	2441.006494

(continuation of the "Result" table from column 6 ...)

DUT Frequency	Result
(MHz)	
2440.000000	PASS



Setting	Instrument Value	Target Value	
Start Frequency	2.43900 GHz	2.43900 GHz	
Stop Frequency	2.44200 GHz	2.44200 GHz	
Span	3.000 MHz	3.000 MHz	
RBW	300.000 kHz	<= 300.000 kHz	
VBW	300.000 kHz	>= 300.000 kHz	
SweepPoints	155	~ 10	
Sweeptime	2.500 ms	AUTO	
Reference Level	-10.000 dBm	-10.000 dBm	
Attenuation	15.000 dB	AUTO	
Detector	MaxPeak	MaxPeak	
SweepCount	200	200	
Filter	3 dB	3 dB	
Trace Mode	Max Hold	Max Hold	
Sweeptype	Sweep	Sweep	
Preamp	off	off	
Stablemode	Trace	Trace	
Stablevalue	0.50 dB	0.50 dB	
Run	13 / max. 150	max. 150	
Stable	10 / 10	10	
Max Stable Difference	0.00 dB	0.50 dB	



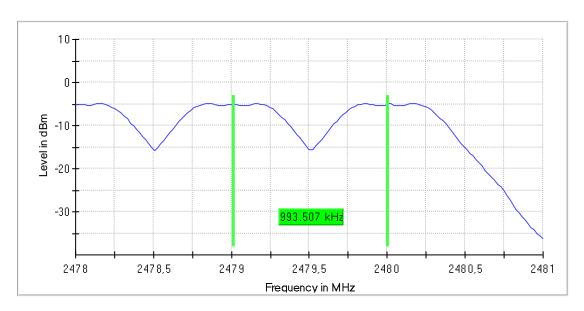
### Carrier Frequency Separation (2480 MHz; 8,000 dBm; 1 MHz)

Test according to FCC title 47 part 15 15.247(a), KDB 558074 D01 DTS Meas Guidance v05r02 and ANSI C63.10

DUT Frequency (MHz)	Frequency Separation (MHz)	Limit Min (MHz)	Limit Max (MHz)	Center Frequency low Channel (MHz)	Center Frequency high Channel (MHz)
2480.000000	0.993507	0.909091		2479.012987	2480.006494

(continuation of the "Result" table from column 6 ...)

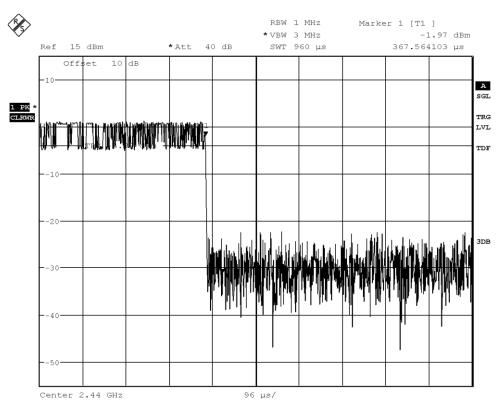
DUT Frequency (MHz)	Result
2480.000000	PASS



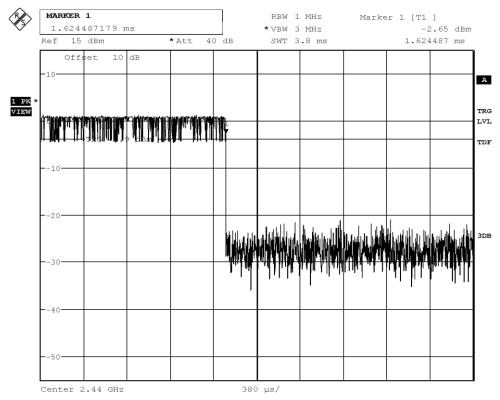
Setting	Instrument Value	Target Value	
Start Frequency	2.47800 GHz	2.47800 GHz	
Stop Frequency	2.48100 GHz	2.48100 GHz	
Span	3.000 MHz	3.000 MHz	
RBW	300.000 kHz	<= 300.000 kHz	
VBW	300.000 kHz	>= 300.000 kHz	
SweepPoints	155	~ 10	
Sweeptime	2.500 ms	AUTO	
Reference Level	-10.000 dBm	-10.000 dBm	
Attenuation	15.000 dB	AUTO	
Detector	MaxPeak	MaxPeak	
SweepCount	200	200	
Filter	3 dB	3 dB	
Trace Mode	Max Hold	Max Hold	
Sweeptype	Sweep	Sweep	
Preamp	off	off	
Stablemode	Trace	Trace	
Stablevalue	0.50 dB	0.50 dB	
Run	14 / max. 150	max. 150	
Stable	10 / 10	10	
Max Stable Difference	0.16 dB	0.50 dB	



### 2.7. Time of Channel occupancy

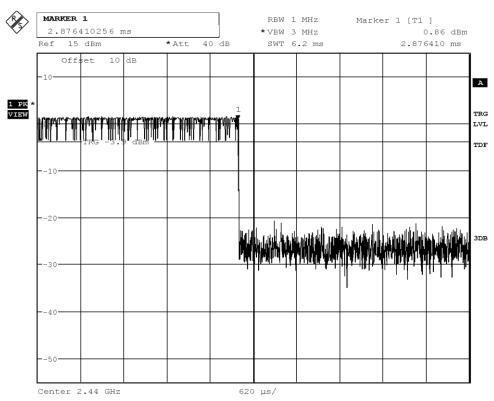


 $DwT\_Hopping\_ON\_Ch39\_DH1$ 



DwT\_Hopping\_ON\_Ch39\_2DH3



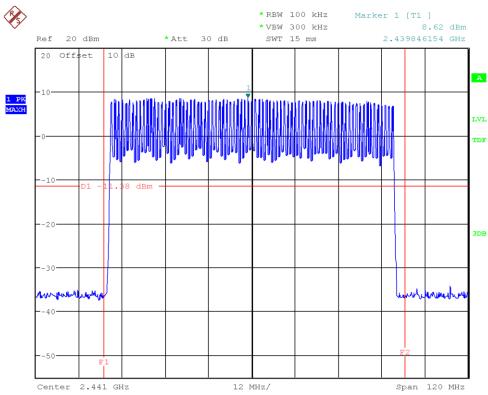


 $DwT\_Hopping\_ON\_Ch39\_DH5$ 

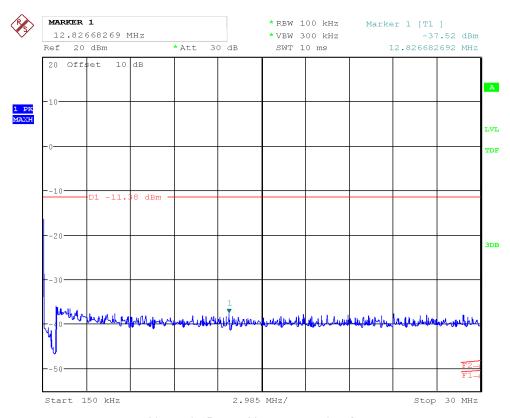


### 2.8. 20dBc Conducted Spurious Emissions

### 2.8.1. Hopping ON

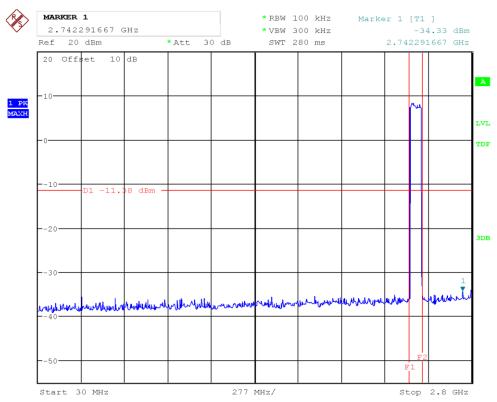


20dBc\_REF\_Hopping ON

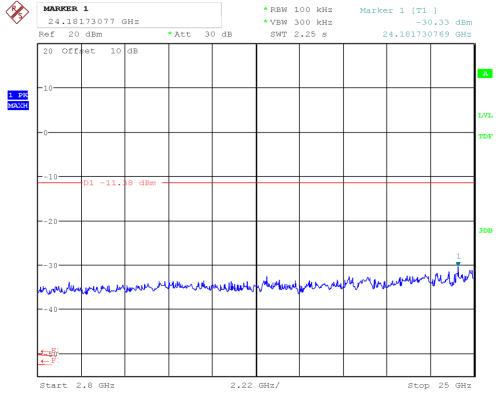


20dBc\_0.15MHz-30MHz\_Hopping ON





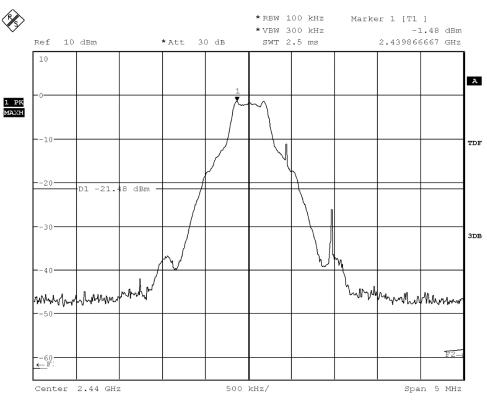
20dBc\_0.30MHz-2.8Ghz\_Hopping ON



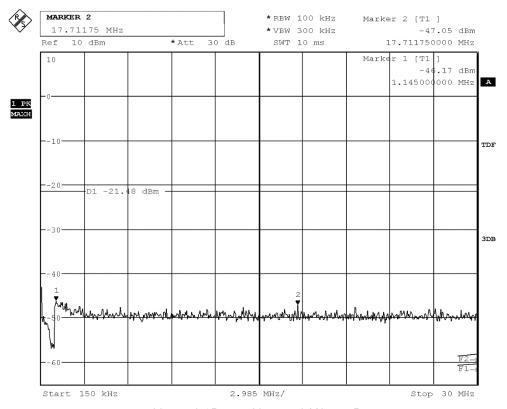
20dBc\_2.8GHz-25Ghz\_Hopping ON



### 2.8.2. Hopping OFF

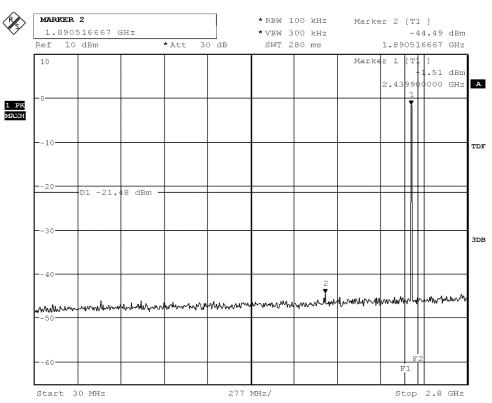


20dBc\_REF\_2440\_DH5

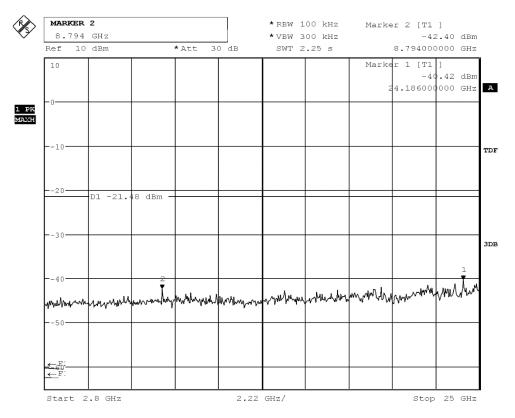


 $20dBc\_0.15MHz-30MHz\_2440\_DH5$ 



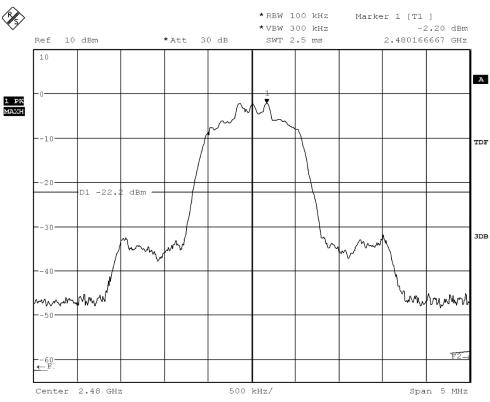


 $20dBc\_0.30MHz\text{-}2.8Ghz\_2440\_DH5$ 

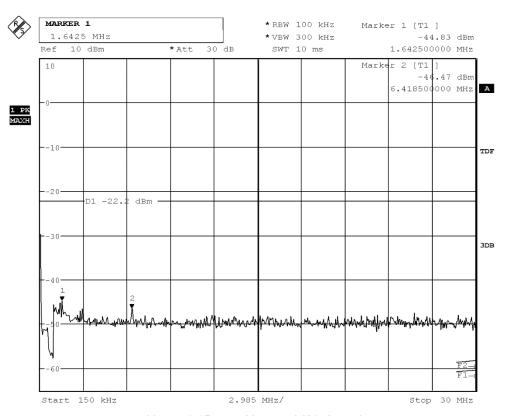


 $20dBc\_2.8GHz-25Ghz\_2440\_DH5$ 



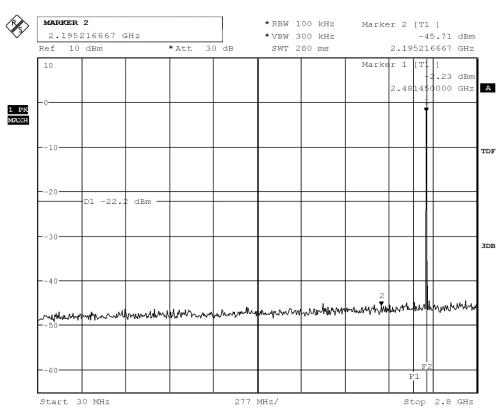


20dBc\_REF\_2480\_2-DH3

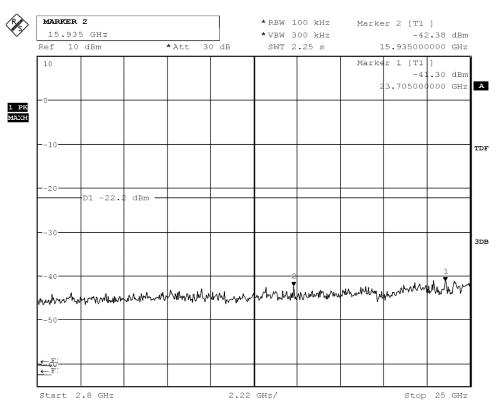


 $20dBc\_0.15MHz-30MHz\_2480\_2-DH3$ 



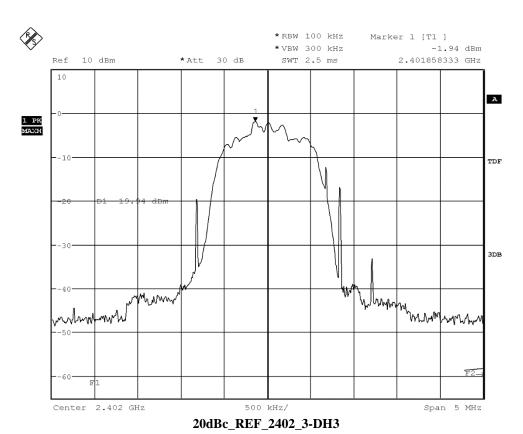


20dBc\_0.30MHz-2.8Ghz\_2480\_2-DH3



 $20dBc\_2.8GHz-25Ghz\_2480\_2-DH3$ 

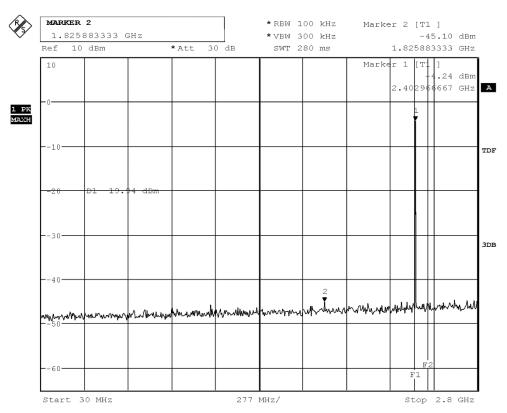




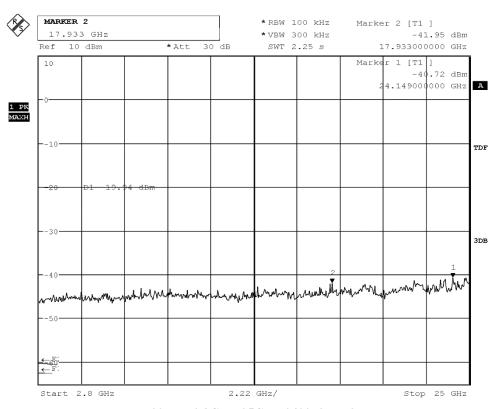
MARKER 2 \* RBW 100 kHz Marker 2 [T1 ] 9.15475 MHz \*VBW 300 kHz -47.83 dBm Ref 10 dBm \* Att 30 dB SWT 10 ms 9.154750000 MHz Marker 1 [T1] 10 -45.85 dBm 1.244500000 MHz A 1 PK MAXH TDF Start 150 kHz 2.985 MHz/

 $20dBc\_0.15MHz-30MHz\_2402\_3-DH3$ 





20dBc\_0.30MHz-2.8Ghz\_2402\_3-DH3



 $20dBc\_2.8GHz-25Ghz\_2402\_3-DH3$ 



# 2.9. Frequency Stability

### **2.9.1.** Tmin – Vnom

			Tnom ·	- Vnom	Vnom	-Tnom
Modulation	Channel	99% OBW	left	right	left	right
			Bandedge	Bandedge         Bandedge         Ban           in HZ         in HZ         in           5         2402493506         2401532468         2402           5         2440493506         2439532468         2440           5         2480493506         2479532468         2480           3         2402610390         2401415584         2402           7         2440610390         2439402597         2440		Bandedge
	MHZ	in MHZ	in HZ in HZ		in HZ	in HZ
DH5	2402	1,012987	2401545455	2402493506	2401532468	2402532468
	2440	1,000000	2439545455	2440493506	2439532468	2440584416
	2480	1,065000	2479545455	2480493506	2479532468	2480558442
2-DH3	2402	1,234000	2401376623	2402610390	2401415584	2402649351
	2440	1,207793	2439402597	2440610390	2439402597	2440649351
	2480	1,233767	2479389610	2480623377	2479428571	2480649351
3-DH3	DH3 2402 1		2401389610	2402623377	2401415584	2402649351
	2440	1,233767	2439389610	2440623377	2439428571	2440662338
	2480	1,246754	2479389610	2480636364	2479428571	2480662338

### 2.9.2. Tmax - Vnom

			Tnom	- Vnom	Tmax	- Vnom
Modulation	Channel	99% OBW	left	right	left	right
			Bandedge	Bandedge	Bandedge	Bandedge
		in MHZ	in HZ	in HZ	in HZ	in HZ
DH5	2402	1,012987	2401545455 240249350		2401493506	2402571429
	2440	1,000000	2439545455	2440493506	2439480519	2440493506
	2480	1,065000	2479545455	2480493506	2479454545	2480545455
2-DH3	2402	1,234000	2401376623	2402610390	2401376623	2402636364
	2440	1,207793	2439402597	2440610390	2439376623	2440597403
	2480	1,233767	2479389610	2480623377	2479363636	2480597403
3-DH3	3-DH3 2402 1		2401389610	2402623377	2401376623	2402649351
	2440		2439389610	2440623377	2439376623	2440610390
	2480		2479389610	2480636364	2479376623	2480623377



### **2.9.3.** Tnom – Vmin

			Tnom	- Vnom	Tnom	- Vmin
Modulation	Channel	99% OBW	left	right	left	right
			Bandedge	Bandedge	Bandedge	Bandedge
		in MHZ	in HZ	in HZ		
DH5	2402	1,012987	2401504950	2402475248	2401519481	2402519481
	2440	1,000000	2440504950	2441455446	2439519481	2440532468
	2480	1,065000	2479504950	2480475280	2479519481	2480571429
2-DH3	2402	1,234000	2401326733	2402534653	2401389610	2402623377
	2440	1,207793	2440326733	2441534653	2439402597	2440623377
	2480	1,233767	2479326733	2480534653	2479324675	2480649351
3-DH3	-DH3 2402 1		2401326733	2402554455	2401350649	2402649351
	2440	1,233767	2440326733	2441554455	2439363636	2440636364
	2480		2479326733	2480554455	2479376623	2480636364

### **2.9.4.** Tnom – Vmax

			Tnom	- Vnom	Tnom -	- Vmax
Modulation	Channel	99% OBW	left Bandedge	right Bandedge	left Bandedge	right Bandedge
		in MHZ	in HZ	in HZ	Dandedge	Dandedge
DH5	2402	1,012987	2401504950	2402475248	2401506494	2402519481
D110	2440	1,000000	2440504950	2441455446	2439506494	2440558442
	2480	1,065000	2479504950	2480475280	2479519481	2480519481
		.,00000				
2-DH3	2402	1,234000	2401326733	2402534653	2401402597	2402623377
	2440	1,207793	2440326733	2441534653	2439402597	2440623377
	2480	1,233767	2479326733	2480534653	2479389610	2480636364
3-DH3	2402	1,233767	2401326733	2402554455	2401389610	2402623377
	2440	1,233767	2440326733	2441554455	2439402597	2440623377
	2480	1,246754	2479326733	2480554455	2479389610	2480636364



# 3. Radiated Field Strength Measurements

### 3.1. Magnetic field emissions radiated Bluetooth BDR below 30 MHz

### 2.01a\_BT\_EDR\_ch78

Test description: Magnetic Field Strength Measurement related to 30/300 m distance
Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Technical Data: Please see page 2 for detailed data of measurement setup

Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation

Used filter: bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator: MKh
Operating conditions: TX-on
Power during tests: 120V 60Hz

Comment: BT EDR | 2-DH3 | ch78

### **EUT Information**

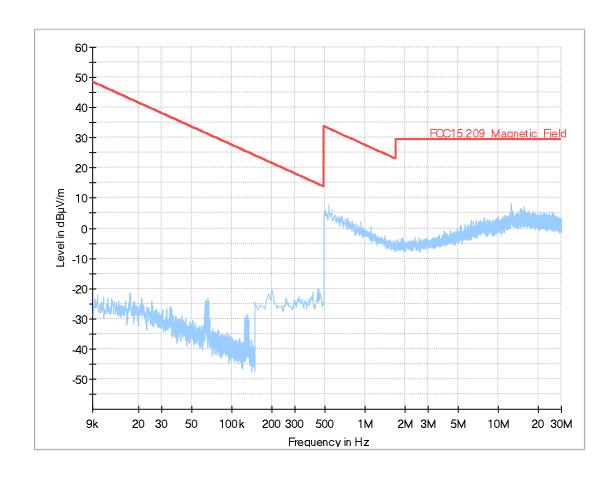
EUT Name: Thermomix

Manufacturer: Vorwerk Elektroware GmbH & Co KG.

Serial Number: 18434212024100415

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615





# 2.02a\_BT\_EDR\_ch00

Test description: Magnetic Field Strength Measurement related to 30/300 m distance Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Please see page 2 for detailed data of measurement setup Technical Data: Rec. antenna (pre-scan):

height 1.00 m, parallel and 90° to EUT polarisation

Used filter: bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator: MKh Operating conditions: TX-on Power during tests: 120V 60Hz

BT EDR | 3-DH3 | ch00 Comment:

# **EUT Information** Manufacturer:

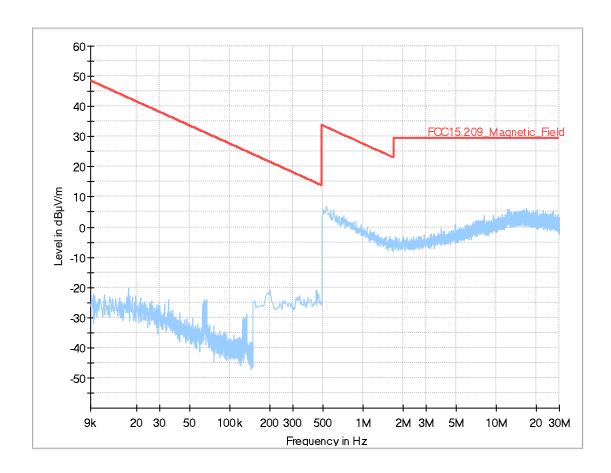
**EUT Name: Thermomix** 

Vorwerk Elektroware GmbH & Co KG.

Serial Number: 18434212024100415

**NWOT** Hardware Rev:

Software Rev: 0.18.109-201808300615





# 2.03a\_BT\_EDR\_ch39

Test description: Magnetic Field Strength Measurement related to 30/300 m distance Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Technical Data: Please see page 2 for detailed data of measurement setup

Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation Used filter:

bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator: MKh Operating conditions: TX-on Power during tests: 120V 60Hz

BT EDR | DH5 | ch39 Comment:

### **EUT Information**

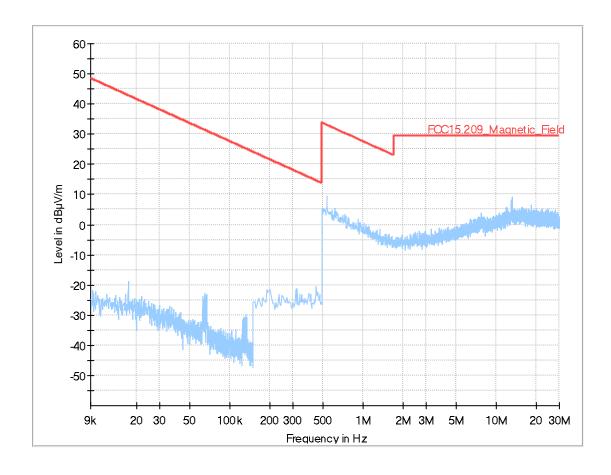
**EUT Name:** Thermomix

Manufacturer: Vorwerk Elektroware GmbH & Co KG.

Serial Number: 18434212024100415

NWOT Hardware Rev:

Software Rev: 0.18.109-201808300615





# 2.04a\_WLAN2,4+BT

#### **Common Information**

Test description: Magnetic Field Strength Measurement related to 30/300 m distance

Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Technical Data: Please see page 2 for detailed data of measurement setup

Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation

Used filter: bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator: MAh

Operating Mode: Wlan 2.4GHz Iperf connection + BT Connection to Speaker

Comment 1: nominal channel

Environmental Conditions:: Humidity: 43,1%rH; Temperature: 21,2°C

EUT Setup: laying Verdict: Passed

#### **EUT Information**

EUT Name: Thermomix

Manufacturer: Vorwerk Elektroware GmbH & Co KG.

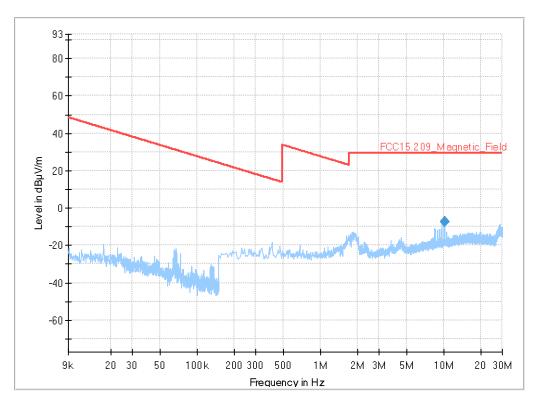
Serial Number: 18434212024100415

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615

Comment: 120V AC

#### Full Spectrum



•										
	Frequency	QuasiPeak	Limit	Margi	Meas.	Bandwidt	Pol	Azimut	Corr.	Comment
	(MHz)	(dBµV/m)	(dBµV/m)	n	Time	h		h	(dB)	
				(dB)	(ms)	(kHz)		(deg)		
	10.296200	-7.60	29.54	37.14	1000.0	9.000	Н	175.0	-33.5	23:56:04 - 04.07.2019



### 2.05a\_WLAN5+BT

#### **Common Information**

Test description: Magnetic Field Strength Measurement related to 30/300 m distance

Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Distance correction: used accord. table, pls. see test report

Technical Data: Please see page 2 for detailed data of measurement setup

Rec. antenna (pre-scan): height 1.00 m, parallel and 90° to EUT polarisation

Used filter: bypass

Test specification: FCC 15.205 § 15.209; RSS-Gen: Issue 5

Operator: Mah

Operating Mode: BT\_Normalmode + Wifi 5GHz Iperf

Comment 1: nominal channel

Environmental Conditions:: Humidity: 42,1%rH; Temperature: 21,2°C

EUT Setup: 1
Verdict: Passed

#### **EUT Information**

EUT Name: Thermomix

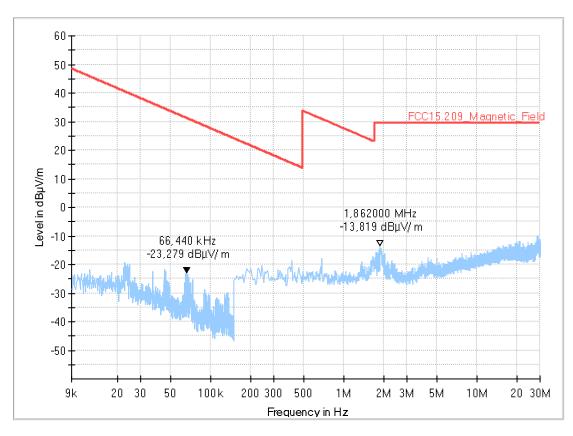
Manufacturer: Vorwerk Elektroware GmbH & Co KG.

Serial Number: 19094204681605368

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615

Comment: 120V AC





# 3.2. Spurious emissions radiated Bluetooth BDR 30 MHz to 1 GHz

# 3.01a\_BT\_EDR\_ch78

#### **Common Information**

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Test specification.: FCC 15.209; RSS-Gen: Issue 3

Operator: MKh
Operating conditions: BT LE
Power during tests: 120V AC

Comment 1: BT EDR | 2-DH3 | ch78

### **EUT Information**

EUT Name: Thermomix

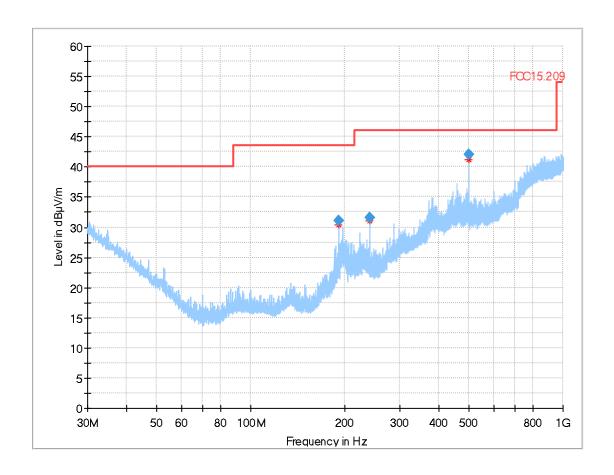
Manufacturer: Vorwerk Elektroware GmbH & Co KG.

Serial Number: 18434212024100415

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615

Comment: 120V AC



Frequency (MHz)	QuasiPea k (dBµV/m)	Limit (dBµV/m )	Margi n (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Corr (dB)
191.924000	31.11	43.50	12.39	1000.0	120.000	169.0	Н	176.0	11.5
239.876000	31.54	46.00	14.46	1000.0	120.000	126.0	Н	345.0	13.1
499.936000	42.05	46.00	3.95	1000.0	120.000	171.0	Н	337.0	19.5



# 3.02a\_BT\_EDR\_ch00

#### **Common Information**

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Ånechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Test specification.: FCC 15.209; RSS-Gen: Issue 3

Operator: MKh
Operating conditions: BT LE
Power during tests: 120V AC

Comment 1: BT EDR | 3-DH3 | ch00

#### **EUT Information**

EUT Name: Thermomix

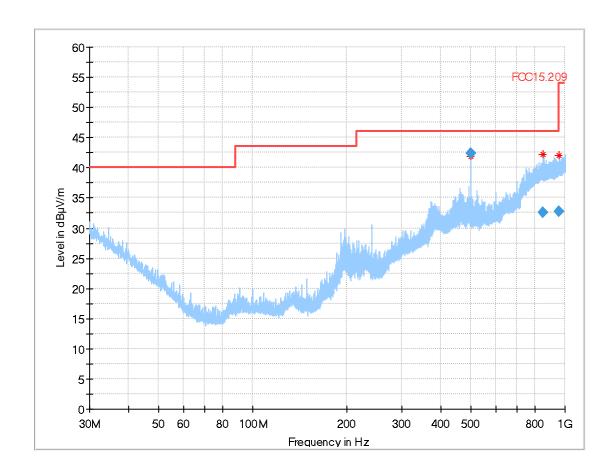
Manufacturer: Vorwerk Elektroware GmbH & Co KG.

Serial Number: 18434212024100415

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615

Comment: 120V AC



Frequency (MHz)	QuasiPea k (dBµV/m)	Limit (dBµV/m )	Margi n (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Corr (dB)
499.936000	42.35	46.00	3.65	1000.0	120.000	158.0	Н	0.0	19.5
851.208000	32.65	46.00	13.35	1000.0	120.000	219.0	Н	170.0	25.7
958.572000	32.82	46.00	13.18	1000.0	120.000	260.0	Н	272.0	27.5



# 3.03a\_BT\_EDR\_ch39

#### **Common Information**

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Ånechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0

Test specification.: FCC 15.209; RSS-Gen: Issue 3

Operator: MKh
Operating conditions: BT LE
Power during tests: 120V AC

Comment 1: BT EDR | DH5 | ch39

#### **EUT Information**

EUT Name: Thermomix

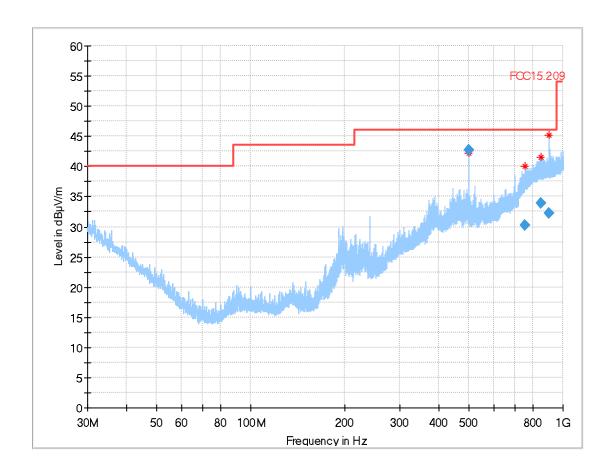
Manufacturer: Vorwerk Elektroware GmbH & Co KG.

Serial Number: 18434212024100415

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615

Comment: 120V AC



Frequency (MHz)	QuasiPea k (dBµV/m)	Limit (dBµV/m )	Margi n (dB)	Meas. Time (ms)	Bandwidt h (kHz)	Heigh t (cm)	Pol	Azimut h (deg)	Corr (dB)
499.936000	42.76	46.00	3.24	1000.0	120.000	170.0	Н	0.0	19.5
753.252000	30.31	46.00	15.69	1000.0	120.000	129.0	Η	154.0	24.9
849.656000	33.98	46.00	12.02	1000.0	120.000	167.0	Ι	164.0	26.0
903.244000	32.28	46.00	13.72	1000.0	120.000	347.0	Ι	165.0	26.9



# 3.05a\_WLAN5+BT

#### **Common Information**

Test description: Electric Field Strength Measurement

Test site and distance: Ref.-Nr. 441 Semi Anechoic Room (SAR) with 3 m measurement distance

Version of Testsoftware: EMC32 V9.25.0 Distance correction: not used Used filter: not used

Technical Data: please see page 2 for detailed data of measurement setup

Test specification.: FCC 15.209; RSS-Gen: Issue 3

Operator: MAh

Operating Mode: Wlan 2.4GHz Iperf connection + BT Connection to Speaker

Power during tests: 13.5VDC

Comment 1:

Environmental Conditions:: Humidity: 41,7%rH; Temperature: 21,4°C

EUT Setup: 1
Verdict: Passed

#### **EUT Information**

EUT Name: Thermomix

Manufacturer: Vorwerk Elektroware GmbH & Co KG.

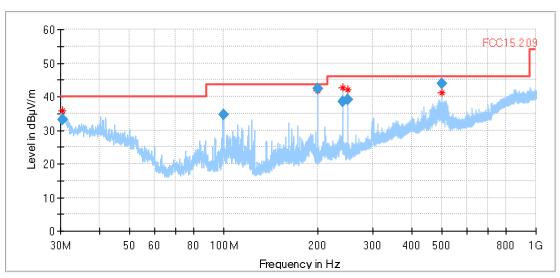
Serial Number: 18434212024100415

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615

Comment: 120V AC

#### Full Spectrum



Frequency (MHz)	Quasi Peak (dBµV /m)	Limit (dBµV /m)	Margin (dB)	Bandwi dth (kHz)	Heig ht (cm)	Pol	Azimu th (deg)	Cor r. (dB
30.340000	33.03	40.00	6.97	120.000	336.	Н	259.0	21.4
99.988000	34.72	43.50	8.78	120.000	209.	V	0.0	8.1
200.024000	42.37	43.50	1.13	120.000	105.	V	272.0	11.3
240.016000	38.65	46.00	7.35	120.000	112.	Η	120.0	13.1
250.000000	39.20	46.00	6.80	120.000	145.	Ι	126.0	13.0
499.936000	43.99	46.00	2.01	120.000	208.	Η	184.0	19.5



### 3.3. Spurious emissions radiated Bluetooth BDR 1 GHz to 18 GHz

# 4.01a\_BT\_EDR\_ch78

### **Common Information**

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous/ Bluetooth

Operator Name: MKh

Comment: Channel no. low/middle/high Comment2: BT EDR | 2-DH3 | ch78

Verdict: Passed

#### **EUT Information**

EUT Name: Thermomix

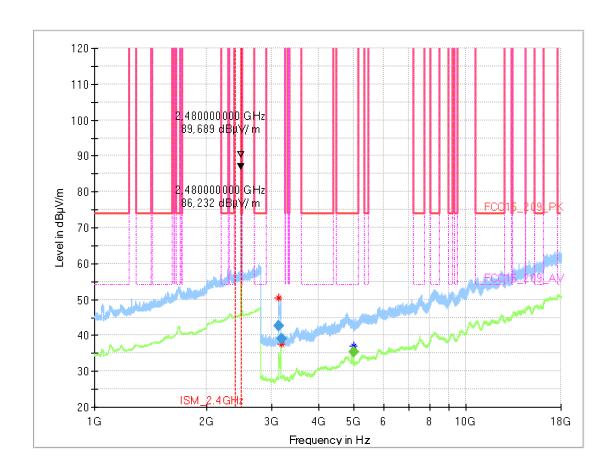
Manufacturer: Vorwerk Elektroware GmbH & Co KG. Product: Household equipment with WLAN

EUT Model: NWOT

Serial Number: 18434212024100521

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615





Frequency (MHz)	MaxPeak (dBµV/m)	Limit (dBµV/ m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
3130.400000	42.55	150.00	107.45	100.0	1000.000	155.0	٧	200.0	0.0	-0.5
3185.200000	39.07	150.00	110.93	100.0	1000.000	155.0	Н	17.0	0.0	-0.1
4999.200000		54.00	18.56	100.0	1000.000	155.0	V	308.0	0.0	3.7



# 4.02a\_BT\_EDR\_ch00

### **Common Information**

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous/ Bluetooth

Operator Name: MKh

Comment: Channel no. low/middle/high Comment2: BT EDR | 3-DH3 | ch00

Verdict: Passed

### **EUT Information**

EUT Name: Thermomix

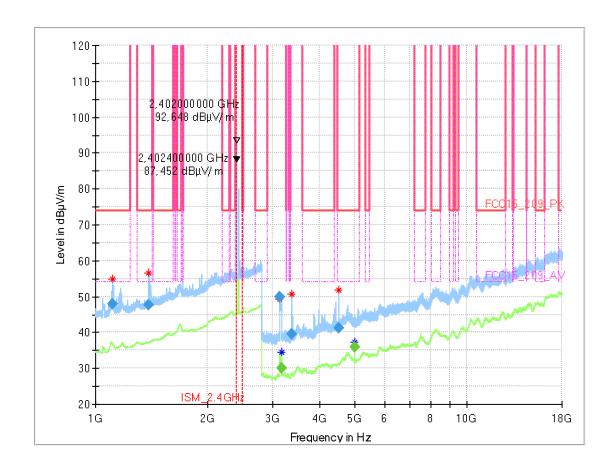
Manufacturer: Vorwerk Elektroware GmbH & Co KG. Product: Household equipment with WLAN

EUT Model: NWOT

Serial Number: 18434212024100521

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615





Frequency (MHz)	MaxPeak (dBμV/m)	Limit (dBµV/ m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Height (cm)	Pol	Azimuth (deg)	Elevation (deg)	Corr. (dB)
1108.400000	47.92	74.00	26.08	100.0	1000.000	155.0	Н	110.0	0.0	28.7
1389.200000	47.56	74.00	26.44	100.0	1000.000	155.0	Н	110.0	0.0	29.3
3130.800000	49.87	150.00	100.13	100.0	1000.000	155.0	٧	176.0	0.0	-0.5
3168.400000		150.00	119.94	100.0	1000.000	155.0	٧	185.0	0.0	-0.3
3376.400000	39.49	150.00	110.51	100.0	1000.000	155.0	٧	59.0	0.0	-0.2
4524.800000	41.35	74.00	32.65	100.0	1000.000	155.0	٧	120.0	0.0	2.7
4999.200000		54.00	18.18	100.0	1000.000	155.0	٧	307.0	0.0	3.7



# 4.03a\_BT\_EDR\_ch39\_2.8\_18GHz

### **Common Information**

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous/ Bluetooth

Operator Name: MKh

Comment: Channel no. low/middle/high

Comment2: BT EDR | DH5 | ch39

Verdict: Passed

### **EUT Information**

EUT Name: Thermomix

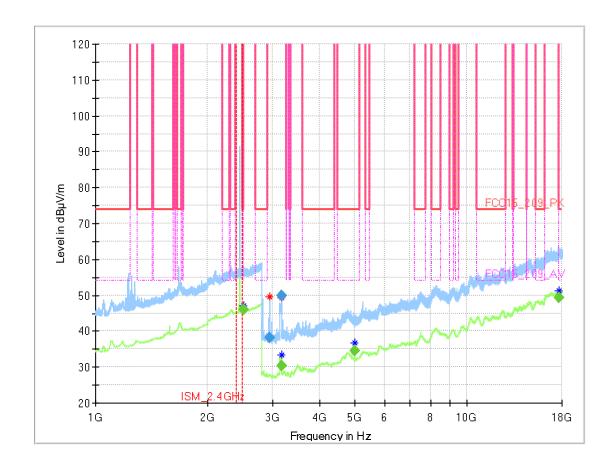
Manufacturer: Vorwerk Elektroware GmbH & Co KG. Product: Household equipment with WLAN

EUT Model: NWOT

Serial Number: 18434212024100521

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615





	••									
Frequency	MaxPeak	Limit	Margin	Meas. Time	Bandwidth	Height	Pol	Azimuth	Elevation	Corr.
(MHz)	(dBµV/m)	(dBµV/	(dB)	(ms)	(kHz)	(cm)		(deg)	(deg)	(dB)
		m)	, ,	, ,		, ,		, ,		, ,
2499.600000		54.00	8.04	100.0	1000.000	155.0	٧	307.0	0.0	35.8
2935.600000	38.21	150.00	111.79	100.0	1000.000	155.0	٧	66.0	0.0	-1.0
3168.400000	-	150.00	119.79	100.0	1000.000	155.0	٧	184.0	0.0	-0.3
3168.400000	49.96	150.00	100.04	100.0	1000.000	155.0	٧	184.0	0.0	-0.3
4999.200000		54.00	19.47	100.0	1000.000	155.0	٧	308.0	0.0	3.7
17701.600000		54.00	4.60	100.0	1000.000	155.0	V	184.0	0.0	25.9



# 4.04a\_WLAN2,4+BT

#### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 4

Antenna polarisation: horizontal/vertical

Operating Mode: 2,4GHz Wifi Iperf Connection with router + BT connection with Speaker

Operator: Ma

Comment: Channel no. low/high

Comment2: Modulation Type: xxx Data Rate: yyyEnvironmental Conditions::

EUT Setup: 1
Verdict: Passed

#### **EUT Information**

EUT Name: Thermomix

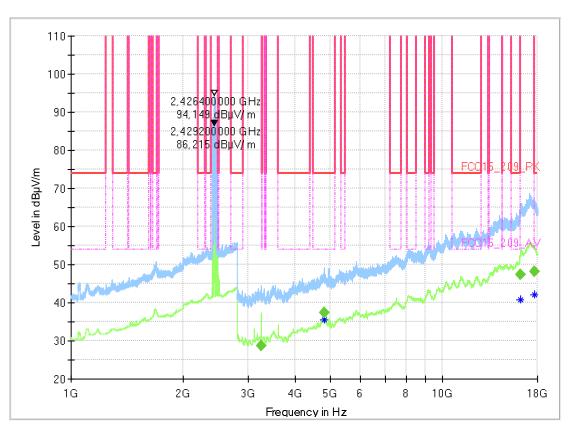
Manufacturer: Vorwerk Elektroware GmbH & Co KG.
Product: Household equipment with WLAN

EUT Model: NWOT

Serial Number: 18434212024100521

Hardware Rev: Software Rev:

Comment: 120V AC





mai_itoodit									
Frequency (MHz)	Max Peak (dBµV/	Limit (dBµV /m)	Margin (dB)	Meas. Time (ms)	Bandwidth (kHz)	Pol	Azimuth (deg)	Corr. (dB/m)	Comment
3256.450000		150.00	121.35	100.0	1000.000	V	75.0	2	20:19:16 - 05.07.2019
4800.330000		54.00	16.69	100.0	1000.000	Н	33.0	6	20:15:27 - 05.07.2019
16190.850000		54.00	6.57	100.0	1000.000	V	87.0	28	20:17:29 - 05.07.2019
17703.490000		54.00	5.81	100.0	1000.000	٧	285.0	29	20:21:21 - 05.07.2019



### 4.05a\_WLAN5+BT

#### **Common Information**

Test Description: Radiated field strength emission in 3m distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.407&15.209 Intentional Radiator

Antenna polarisation: horizontal/vertical

Software Version: #Ver

Operating Mode: 5GHz Wifi Iperf Connection with router + BT connection with Speaker

Operator: Ma

Comment: Channel no. low/middle/highEnvironmental Conditions::

EUT Setup: 1
Verdict: Passed

#### **EUT Information**

EUT Name: Thermomix

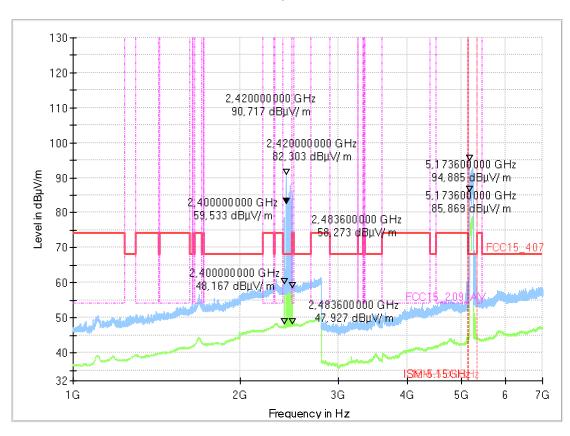
Manufacturer: Vorwerk Elektroware GmbH & Co KG.
Product: Household equipment with WLAN

EUT Model: NWOT

Serial Number: 18434212024100521

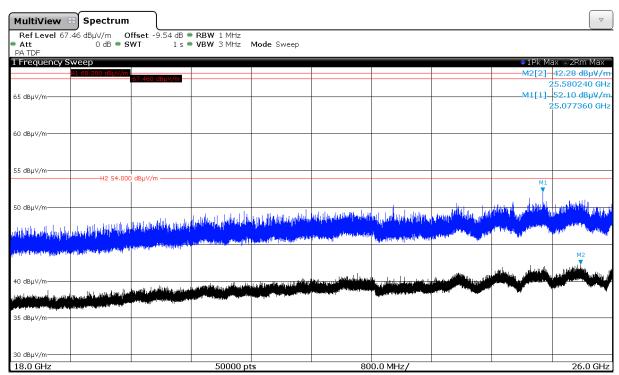
Hardware Rev: Software Rev:

Comment: 120V AC

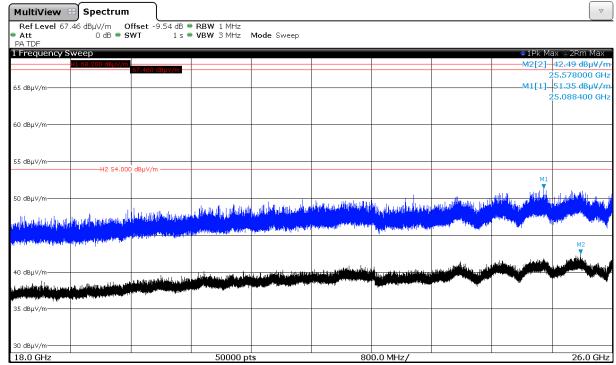




### 3.4. Spurious emissions radiated Bluetooth 18 GHz to 26.5 GHz

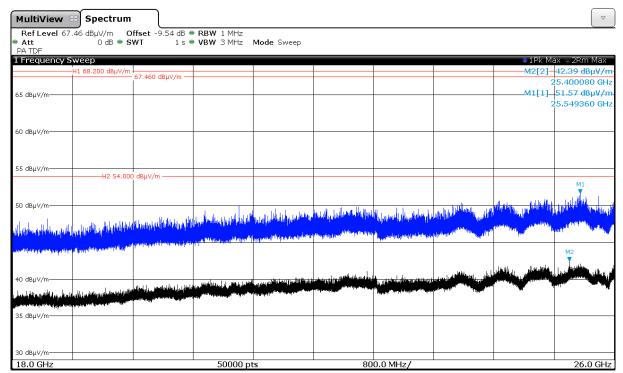


4.01b\_BT\_2DH3\_ch78

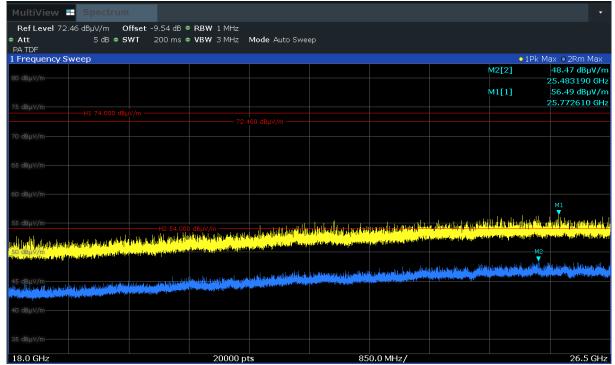


4.02b\_BT\_3DH3\_ch01



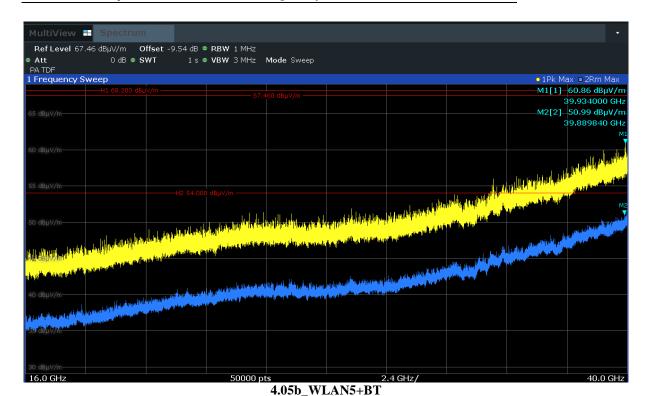


4.03b\_BT\_DH5\_ch39



4.04b\_WLAN2,4+BT





CETECOM\_TR18\_1\_0130902T05a\_A1



# 4. Radiated Band Edge Measurements

### 4.1. Radiated emissions on Bluetooth BDR band-edge low

# 9.01a\_BT\_BE\_EDR\_ch00

### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m

distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous

Operator Name: MKh

Comment: Channel no. low BT EDR | 2-DH3 | ch00

Verdict: Passed

#### **EUT Information**

EUT Name: Thermomix

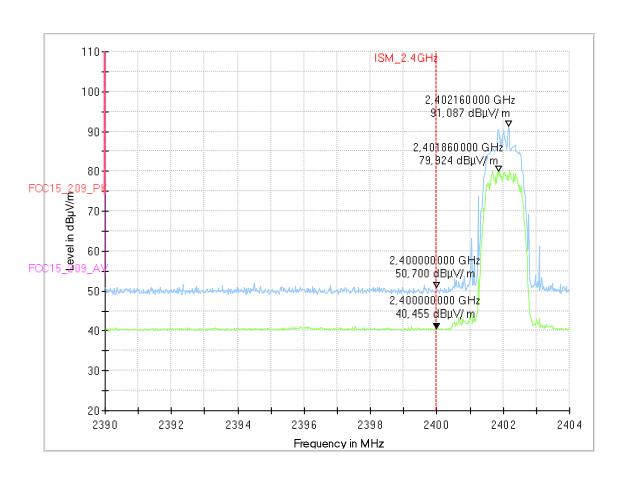
Manufacturer: Vorwerk Elektroware GmbH & Co KG. Product: Household equipment with WLAN

EUT Model: NWOT

Serial Number: 18434212024100521

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615





# 9.02a\_BT\_BE\_EDR\_ch00

### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m

distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous

Operator Name: MKh

Comment: Channel no. low BT EDR | 3-DH3 | ch00

Verdict: Passed

### **EUT Information**

EUT Name: Thermomix

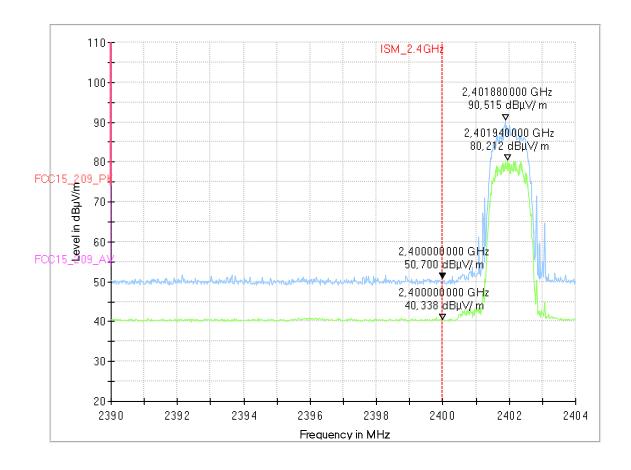
Manufacturer: Vorwerk Elektroware GmbH & Co KG. Product: Household equipment with WLAN

EUT Model: NWOT

Serial Number: 18434212024100521

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615





# 9.03a\_BT\_BE\_EDR\_ch00

### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m

distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous

Operator Name: MKh

Comment: Channel no. low BT EDR | DH5 | ch00

Verdict: Passed

### **EUT Information**

EUT Name: Thermomix

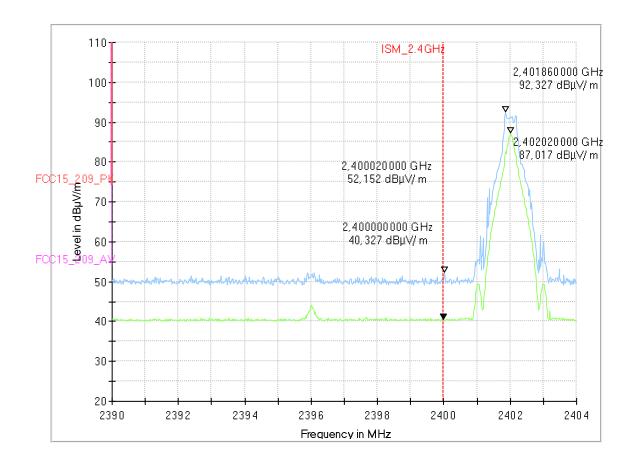
Manufacturer: Vorwerk Elektroware GmbH & Co KG. Product: Household equipment with WLAN

EUT Model: NWOT

Serial Number: 18434212024100521

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615





# 9.04a\_BT\_BE\_EDR\_ch00

#### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m

distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical

Operation mode: BT\_BE Operator Name: HEI

Comment: Channel no. 00
Comment2: BT EDR | Hopping ON

### **EUT Information**

EUT Name: Thermomix

Manufacturer: Vorwerk Elektroware GmbH & Co KG. Product: Household equipment with WLAN

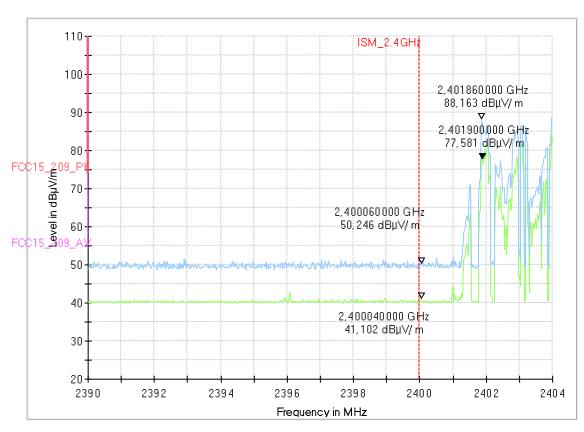
EUT Model: NWOT

Serial Number: 18434212024100521

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615

Comment: 120V AC





### 4.2. Radiated emissions on Bluetooth EDR band-edge high

# 9.01b\_BT\_BE\_EDR\_ch78

#### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous

Operator Name: MKh

Comment: Channel no.78 high Comment2: BT EDR | 2-DH3 | ch78

Verdict: Passed

#### **EUT Information**

EUT Name: Thermomix

Manufacturer: Vorwerk Elektroware GmbH & Co KG. Product: Household equipment with WLAN

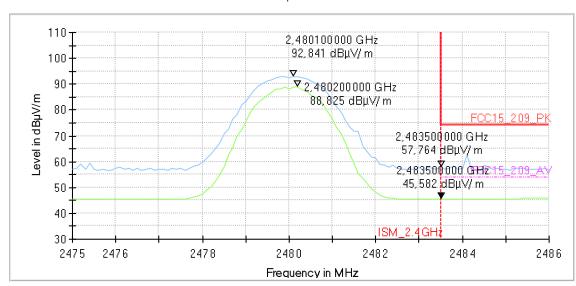
EUT Model: NWOT

Serial Number: 18434212024100521

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615

Comment: 120V AC





# 9.02b\_BT\_BE\_EDR\_ch78

#### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical

Operation mode: TX, continuous

Operator Name: MKh

Comment: Channel no.78 high Comment2: BT EDR | 3-DH3 | ch78

Verdict: Passed

#### **EUT Information**

EUT Name: Thermomix

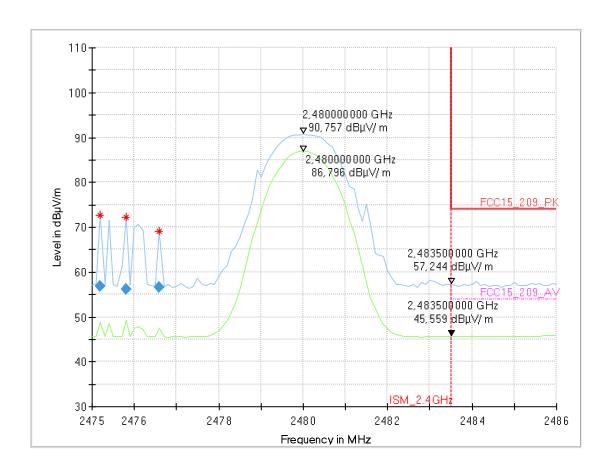
Manufacturer: Vorwerk Elektroware GmbH & Co KG. Product: Household equipment with WLAN

EUT Model: NWOT

Serial Number: 18434212024100521

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615





# 9.03b\_BT\_BE\_EDR\_ch78

### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m

distance

Test Site: **CETECOM GmbH Essen** 

FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5 Test Standard:

Antenna polarisation: horizontal/vertical Operation mode: TX, continuous

Operator Name: HEI Comment: Channel 78

Comment2: BT EDR | DH5 | ch78

### **EUT Information**

**EUT Name:** Thermomix

Manufacturer: Vorwerk Elektroware GmbH & Co KG. Product: Household equipment with WLAN

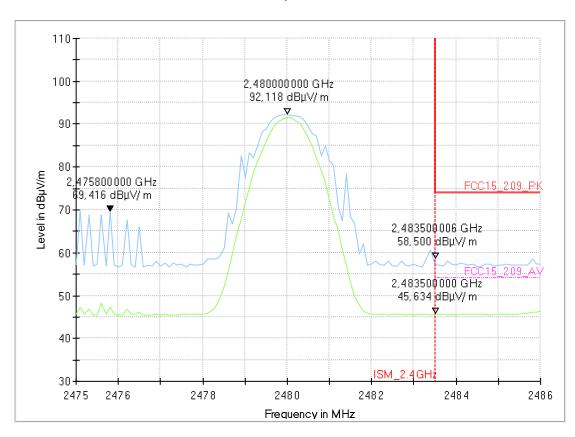
**EUT Model: NWOT** 

Serial Number: 18434212024100521

Hardware Rev: **NWOT** 

0.18.109-201808300615 Software Rev:

120V AC Comment:





# 9.04b\_BT\_BE\_EDR\_ch78

### **Common Information**

Test Description: Band-Edge: Radiated Field Strength Emissions Emissions in 3m

distance

Test Site: CETECOM GmbH Essen

Test Standard: FCC 15.247&15.209 Intentional Radiator / RSS-Gen, Issue 5

Antenna polarisation: horizontal/vertical Operation mode: TX, continuous

Operator Name: HEI Comment: Channel 78

Comment2: BT EDR | Hopping ON

### **EUT Information**

EUT Name: Thermomix

Manufacturer: Vorwerk Elektroware GmbH & Co KG. Product: Household equipment with WLAN

EUT Model: NWOT

Serial Number: 18434212024100521

Hardware Rev: NWOT

Software Rev: 0.18.109-201808300615

Comment: 120V AC

