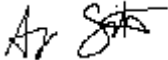


Test Report TR3871G

Equipment Under Test:	BD Neo Infusion Pump
Requirement(s):	FCC 2.1091
Test Date(s):	4/14/2025-4/15/2025
Prepared for:	DEKA Research Attn: Jack Murphy 340 Commercial Street Manchester, NH 03101

Report Issued by: Anthony Smith, EMC Engineering Specialist

Signature: 

Date: 12/13/2025

Report Reviewed by: Adam Alger, Sr. Manager, EMC Laboratory

Signature: 

Date: 01/21/2026

Report Constructed by: Anthony Smith, EMC Engineering Specialist

Signature: 

Date: 08/26/2025

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Company: DEKA Research	Page 1 of 21	Name: BD Neo Infusion Pump
Report: TR3871G		Model: BD Neo PCU: 9200
Job: C-3871		BD Neo Pump Module: 9210
		Serial: 03010574, 03010575, 03010576

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Ezurio Test Services in Review

The Ezurio laboratory located at W66 N220 Commerce Court Cedarburg, Wisconsin, 53012 USA is recognized through the following organizations:



A2LA – American Association for Laboratory Accreditation

Accreditation based on ISO/IEC 17025:2017 with Electrical (EMC) Scope

A2LA Certificate Number: 1255.01

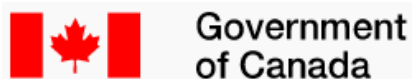
Scope of accreditation includes all test methods listed herein unless otherwise noted



Federal Communications Commission (FCC) – USA

Accredited Test Firm Registration Number: 953492

Recognition of two 3 meter Semi-Anechoic Chambers



Innovation, Science and Economic Development Canada

Accredited U.S. Identification Number: US0218

Recognition of two 3 meter Semi-Anechoic Chambers

Company: DEKA Research	Page 3 of 21	Name: BD Neo Infusion Pump
Report: TR3871G		Model: BD Neo PCU: 9200 BD Neo Pump Module: 9210
Job: C-3871		Serial: 03010574, 03010575, 03010576

1 TEST REPORT SUMMARY

During **April 14th, 2025 to April 15th, 2025** the Equipment Under Test (EUT), **BD Neo Infusion Pump**, as provided by **DEKA Research** was tested to the following requirements:

RF Exposure Evaluation for Mobile Devices

Requirements	Description	Method	Compliant
FCC 1.1307, 2.1091	Mobile Device RF Exposure Evaluation	Distance $\geq$ 20 cm Maximum Permissible Exposure	Yes

Notice:

The results relate only to the item tested as configured and described in this report. Any additional configurations, modes of operation, or modifications made to the equipment under test after the specified test date(s) are at the decision of the client and may not apply to the data seen in this test report.

The decision rule for Pass / Fail assessment to the specification or standard listed in this test report has been agreed upon by the client and laboratory to be as follows:

Measurement Type	Rule
Emissions – Amplitude	1 dB below specified limit
Emissions – Frequency	1% less than the specification
Immunity	Tested at specified level

2 CLIENT INFORMATION

Company Name	DEKA Research
Contact Person	Jack Murphy
Address	340 Commercial Street Manchester, NH 03101

2.1 Equipment Under Test (EUT) Information

The following information has been supplied by the client

Product Name	BD Neo Infusion Pump
Model Number	BD Neo PCU: 9200 BD Neo Pump Module: 9210
Serial Number	PCU 03010574: Config 33 used for comparison PCU 03010575: Config 34 used for reported test data PCU 03010576: Config 34 used for conducted RF test data
Date of Receipt	2/20/2025
Condition	Good
FCC ID:	2ATGAST60

2.2 Product Description

The Neo Infusion Device is a modular system that accurately infuses a broad range of drugs fluids, parenteral nutrition solutions, blood, and blood products. The Neo Infusion Device is intended for use in professional Healthcare Facilities on adult, pediatric, and neonatal patients. The Neo Infusion Device consists of the Point-of-Care Unit (PCU), and up to four detachable Large Volume Pump (LVP) Modules, which provide infusion capabilities.

2.3 Modifications Incorporated for Compliance

None noted at time of test

2.4 Deviations and Exclusions from Test Specifications

None noted at time of test

Company: DEKA Research	Page 5 of 21	Name: BD Neo Infusion Pump
Report: TR3871G		Model: BD Neo PCU: 9200 BD Neo Pump Module: 9210
Job: C-3871		Serial: 03010574, 03010575, 03010576

2.5 Additional Information

Radio programmed via Labtool software. Two configurations exist for device. These are known as Config 33 and Config 34. Config 34 was used for reported test results. Devices were checked to compare any concerning areas, and no substantial differences were noted.

Transmitters in EUT:

125 kHz: Inductively coupled “proximity” identification or access control technology.

13.56 MHz: Inductively coupled and capable of reading NFC credentials as well as other credentials operating at 13.56 MHz.

2.4/5 GHz: WLAN – 802.11a/b/g/n/ac.

2.6 Software Versions

Milestone 29 Wifi Test Version

Neo Clinical Application Version 1.3.7.6001

Normal Badge Reader software 2.3.3

Labtool Version 1.0.0.164

2.7 Auxiliary Equipment

Laptop

Dell Latitude 5450

MN: P165G

SN: 15702971583

Network Switch

Cisco SG200-08

MN: SLM2008T-V01

SN: PSJ150800KY

Company: DEKA Research	Page 6 of 21	Name: BD Neo Infusion Pump
Report: TR3871G		Model: BD Neo PCU: 9200 BD Neo Pump Module: 9210
Job: C-3871		Serial: 03010574, 03010575, 03010576

3 REFERENCES

Publication	Edition	Date	AMD 1	AMD 2
TR3871A	0	6/2025		
TR3871B	0	6/2025		
TR3871C	0	6/2025		
ANSI C63.10	-	2020	-	-
KDB 558074 D01	-	2019	-	-

References not on Scope of Accreditation

Publication	Edition	Date	AMD 1	AMD 2
KDB 447498 D01	6	2025	-	-

4 UNCERTAINTY SUMMARY

Using the guidance of the following publications the calculated measurement uncertainty represents an expanded uncertainty expressed at approximately the 95 % confidence level, using a coverage factor of $k = 2$.

References
CISPR 16-4-1
CISPR 16-4-2
CISPR 32
ANSI C63.23
A2LA P103
A2LA P103c
ETSI TR 100-028

Measurement Type	Configuration	Uncertainty $\pm$
Radiated Emissions	Biconical Antenna	5.0 dB
Radiated Emissions	Log Periodic Antenna	5.3 dB
Radiated Emissions	Horn Antenna	4.7 dB
AC Line Conducted Emissions	Artificial Mains Network	3.4 dB
Telecom Conducted Emissions	Asymmetric Artificial Network	4.9 dB
Disturbance Power Emissions	Absorbing Clamp	4.1 dB
Radiated Immunity	3 Volts/meter	2.2 dB
Conducted Immunity	CDN/EM/BCI	2.4/3.5/3.4 dB
EFT Burst/Surge	Peak pulse voltage	164 volts
ESD Immunity	15 kV level	1377 Volts

Parameter	ETSI U.C. $\pm$	U.C. $\pm$
Radio Frequency, from F0	1×10^{-7}	0.55×10^{-7}
Occupied Channel Bandwidth	5 %	2 %
RF conducted Power (Power Meter)	1.5 dB	1.2 dB
RF conducted emissions (Spectrum Analyzer)	3.0 dB	1.7 dB
All emissions, radiated	6.0 dB	5.3 dB
Temperature	1° C	0.65° C
Humidity	5 %	2.9 %
Supply voltages	3 %	1 %

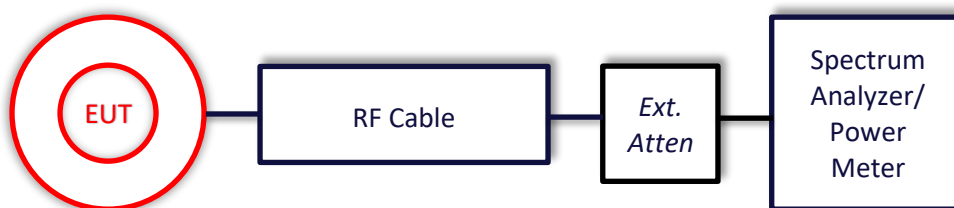
Company: DEKA Research	Page 8 of 21	Name: BD Neo Infusion Pump
Report: TR3871G		Model: BD Neo PCU: 9200 BD Neo Pump Module: 9210
Job: C-3871		Serial: 03010574, 03010575, 03010576

5 TEST DATA

5.1 Antenna Port Conducted Emissions

Description of Measurement	The direct measurement of emissions at the antenna port of the EUT is achieved by use of a RF connection to a spectrum analyzer or power meter. The cable and attenuator factors are loaded into the analyzer or power meter allowing for direct measurement readings without the need for further corrections.
Example Calculations	Measurement (dBm) + Cable factor (dB) + External Attenuator (dB) = Corrected Reading (dBm) Margin (dB) = Limit (dBm) – Corrected Reading (dBm)

Block Diagram



5.1.1 Fundamental Emission Output Power – WLAN 2.4

Operator	Anthony Smith	QA	Jon Dilley
Temperature	21.7°C, 21.4°C, 21.4°C	R.H. %	20.2%, 37.6%, 24.9%
Test Date	3/3/2025, 3/4/2025, 3/6/2025	Location	Conducted RF Bench
Requirement	FCC 15.247(b)(3)	Method	ANSI C63.10

Limits: 1 Watt / 30 dBm

Test Parameters

Frequency	2400-2483.5 MHz	Setup	Conducted
RBW	200 kHz, 510 kHz	VBW	1 MHz, 3 MHz
Detector(s)	Average	Settings	Trace Average

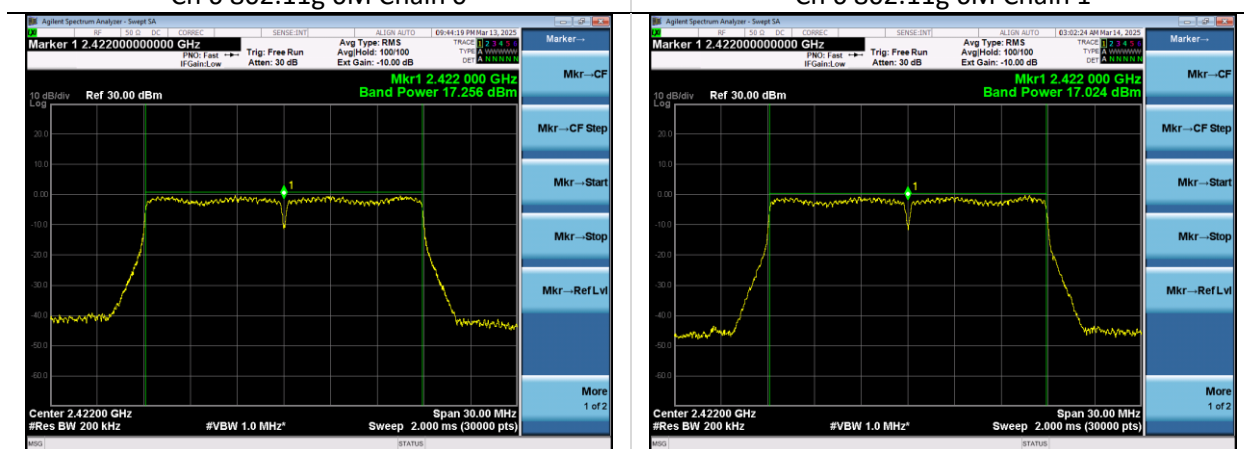
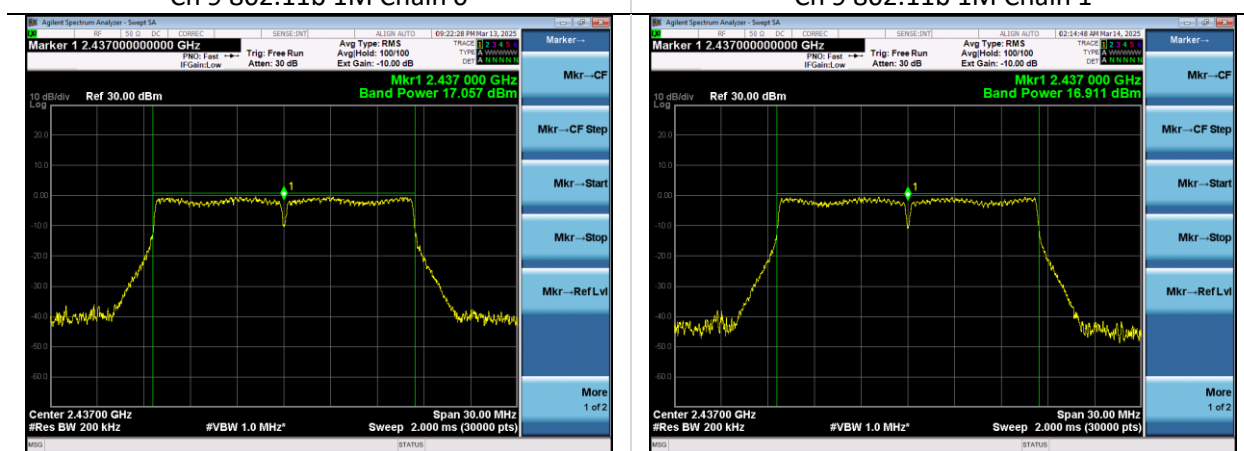
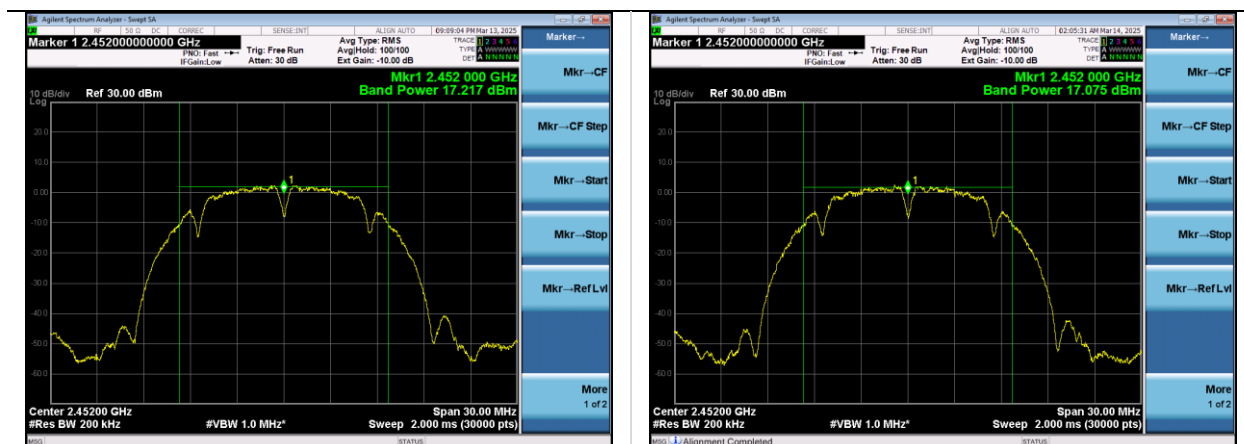
EUT Parameters

Input Power	120VAC 60Hz	Mode	Transmit
Frequency	2400-2483.5 MHz	Channel	1, 2, 3, 6, 9, 10, 11 (20 MHz) 3, 6, 9 (40 MHz)

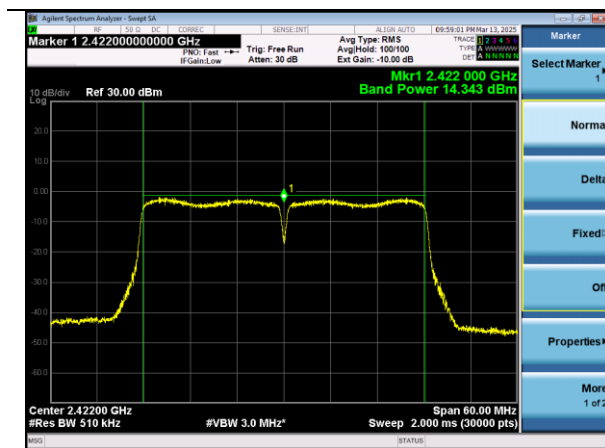
Table

Channel	Mode	Data Rate	Frequency (MHz)	Measured Output Power (dBm) Chain 0	Measured Output Power (dBm) Chain 1	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Margin (dB)	Power Setting
1	11b	1M	2412	15.4	15.0	66.3	18.2	30.0	11.8	16
2	11b	1M	2417	15.3	15.0	65.5	18.2	30.0	11.8	16
3	11b	1M	2422	17.2	17.0	102.6	20.1	30.0	9.9	18
6	11b	1M	2437	17.2	17.0	102.6	20.1	30.0	9.9	18
9	11b	1M	2452	17.2	17.1	103.8	20.2	30.0	9.8	18
10	11b	1M	2457	16.1	16.0	80.5	19.1	30.0	10.9	17
11	11b	1M	2462	16.2	16.0	81.5	19.1	30.0	10.9	17
1	11g	6M	2412	13.3	12.9	40.9	16.1	30.0	13.9	14
2	11g	6M	2417	15.2	14.8	63.3	18.0	30.0	12.0	16
3	11g	6M	2422	17.1	16.8	99.1	20.0	30.0	10.0	18
6	11g	6M	2437	17.1	16.9	100.3	20.0	30.0	10.0	18
9	11g	6M	2452	17.1	16.9	100.3	20.0	30.0	10.0	18
10	11g	6M	2457	15.1	15.0	64.0	18.1	30.0	11.9	16
11	11g	6M	2462	13.1	13.1	40.8	16.1	30.0	13.9	14
1	11n	HT20	2412	12.5	12.0	33.6	15.3	30.0	14.7	13
2	11n	HT20	2417	15.4	15.0	66.3	18.2	30.0	11.8	16
3	11n	HT20	2422	17.3	17.0	103.8	20.2	30.0	9.8	18
6	11n	HT20	2437	17.2	17.1	103.8	20.2	30.0	9.8	18
9	11n	HT20	2452	17.2	17.1	103.8	20.2	30.0	9.8	18
10	11n	HT20	2457	15.3	15.1	66.2	18.2	30.0	11.8	16
11	11n	HT20	2462	11.3	11.3	27.0	14.3	30.0	15.7	12
3	11n	HT40	2422	14.3	14.0	52.0	17.2	30.0	12.8	15
6	11n	HT40	2437	14.3	13.2	47.8	16.8	30.0	13.2	14
9	11n	HT40	2452	14.2	14.1	52.0	17.2	30.0	12.8	15

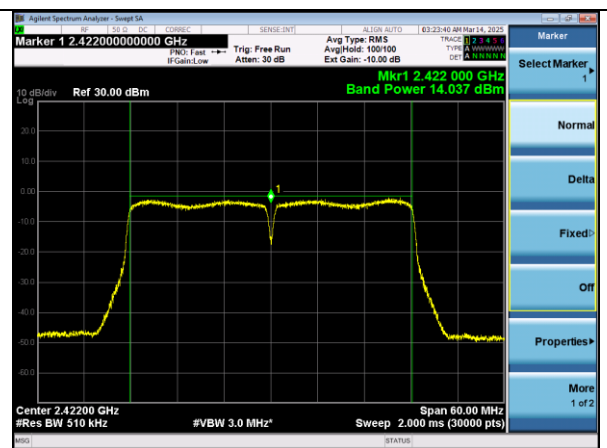
Worst Case Plots



Company: DEKA Research		Name: BD Neo Infusion Pump
Report: TR3871G		Model: BD Neo PCU: 9200
		BD Neo Pump Module: 9210
Job: C-3871		Serial: 03010574, 03010575, 03010576



Ch 3 802.11n HT40 Chain 0



Ch 3 802.11n HT40 Chain 1

Company: DEKA Research	Page 13 of 21	Name: BD Neo Infusion Pump
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Job: C-3871		Serial: 03010574, 03010575, 03010576

5.1.2 Fundamental Emission Output Power – WLAN 5

Operator	Anthony Smith	QA	Dylan Rosenfeldt
Temperature	21.7, 22.1, 21.4°C	R.H. %	28.4, 25.6, 32.3
Test Date	3/12/2025, 3/13/2025, 3/14/2025	Location	Conducted RF Bench
Requirement	FCC 15.407 (a)(1)(2)(3)	Method	ANSI C63.10

Limits:

The maximum peak conducted output power of the intentional radiator shall not exceed 250 mW in the 5.15-5.25, 5.25-5.35, and 5.47-5.725 GHz bands. It shall not exceed 1W in the 5.725-5.85 GHz band.

Test Parameters

Frequency	5150-5850 MHz	Setup	Conducted RF
RBW	1 MHz	VBW	3 MHz
Detector(s)	Average	Settings	Trace Average Span: 30 MHz, 60 MHz, 120 MHz

EUT Parameters

Input Power	120VAC 60 Hz	Mode	5 GHz WLAN Transmit
Frequency	5180-5835 MHz	Channel	See 2.5

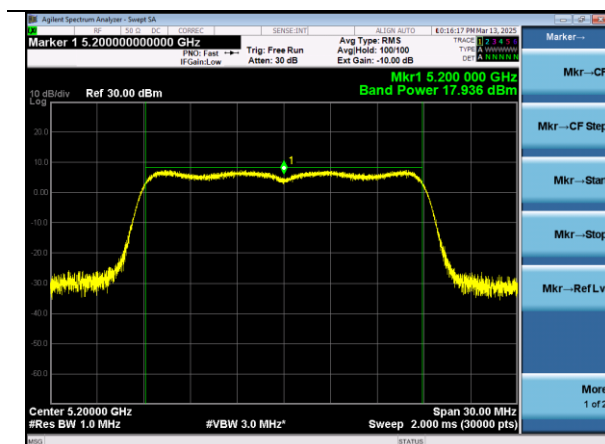
Table

Nominal Bandwidth	Channel	Mode	Data Rate	Frequency (MHz)	Measured Output Power (dBm) Chain 0	Measured Output Power (dBm) Chain 1	Total Power (mW)	Total Power (dBm)	Limit (dBm)	Margin (dB)	Power Setting
20	36	11a	6M	5180	14.1	13.8	49.7	17.0	24.0	7.0	14
20	40	11a	6M	5200	17.8	17.5	116.5	20.7	24.0	3.3	18
20	48	11a	6M	5240	17.3	17.3	107.4	20.3	24.0	3.7	18
20	36	HT20	MCS0	5180	14.1	13.9	50.3	17.0	24.0	7.0	14
20	40	HT20	MCS0	5200	17.9	17.8	121.9	20.9	24.0	3.1	18
20	48	HT20	MCS0	5240	17.5	17.5	112.5	20.5	24.0	3.5	18
20	36	VHT20	MCS0	5180	14.3	13.8	50.9	17.1	24.0	6.9	14
20	40	VHT20	MCS0	5200	18.0	17.6	120.6	20.8	24.0	3.2	18
20	48	VHT20	MCS0	5240	17.5	17.4	111.2	20.5	24.0	3.5	18
20	52	11a	6M	5260	15.1	15.6	68.7	18.4	23.9	5.5	16
20	60	11a	6M	5300	14.6	15.1	61.2	17.9	24.0	6.1	16
20	64	11a	6M	5320	12.5	13.1	38.2	15.8	24.0	8.2	14
20	52	HT20	MCS0	5260	15.3	15.5	69.4	18.4	24.0	5.6	16
20	60	HT20	MCS0	5300	14.7	15.2	62.6	18.0	24.0	6.0	16
20	64	HT20	MCS0	5320	12.6	13.2	39.1	15.9	24.0	8.1	14
20	52	VHT20	MCS0	5260	15.3	15.4	68.6	18.4	24.0	5.6	16
20	60	VHT20	MCS0	5300	14.7	15.2	62.6	18.0	24.0	6.0	16
20	64	VHT20	MCS0	5320	12.6	13.1	38.6	15.9	24.0	8.1	14
20	100	11a	6M	5500	10.3	12.1	26.9	14.3	24.0	9.7	13
20	116	11a	6M	5580	16.1	17.2	93.2	19.7	24.0	4.3	18
20	140	11a	6M	5700	11.0	11.0	25.2	14.0	23.8	9.8	12
20	100	HT20	MCS0	5500	11.4	13.2	34.7	15.4	24.0	8.6	14
20	116	HT20	MCS0	5580	16.3	17.4	97.6	19.9	24.0	4.1	18
20	140	HT20	MCS0	5700	12.1	12.1	32.4	15.1	24.0	8.9	13
20	100	VHT20	MCS0	5500	11.5	13.2	35.0	15.4	24.0	8.6	14
20	116	VHT20	MCS0	5580	16.3	17.4	97.6	19.9	24.0	4.1	18
20	140	VHT20	MCS0	5700	12.1	12.1	32.4	15.1	24.0	8.9	13
20	144	11a	6M	5720	16.8	16.7	94.6	19.8	24.0	4.2	18
20	144	HT20	MCS0	5720	16.8	16.8	95.7	19.8	24.0	4.2	18
20	144	VHT20	MCS0	5720	16.8	16.8	95.7	19.8	24.0	4.2	18
20	149	11a	6M	5745	17.1	16.5	96.0	19.8	30.0	10.2	18
20	157	11a	6M	5785	17.1	16.5	96.0	19.8	30.0	10.2	18
20	165	11a	6M	5825	16.9	16.4	92.6	19.7	30.0	10.3	18
20	149	HT20	MCS0	5745	17.3	16.7	100.5	20.0	30.0	10.0	18
20	157	HT20	MCS0	5785	17.3	16.7	100.5	20.0	30.0	10.0	18
20	165	HT20	MCS0	5825	17.1	16.6	97.0	19.9	30.0	10.1	18

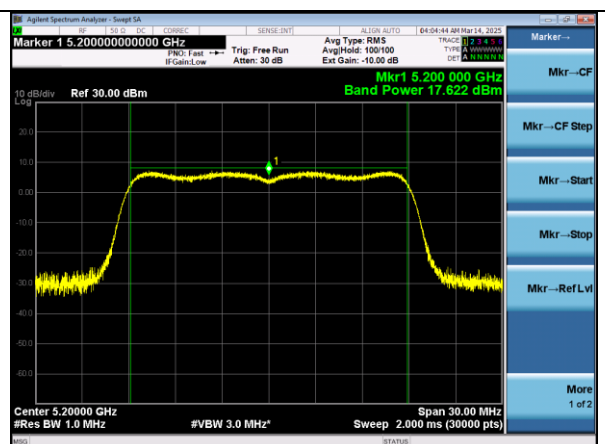
Company: DEKA Research	Page 15 of 21	Name: BD Neo Infusion Pump
Report: TR3871G		Model: BD Neo PCU: 9200 BD Neo Pump Module: 9210
Job: C-3871		Serial: 03010574, 03010575, 03010576

20	149	VHT20	MCS0	5745	17.3	16.7	100.5	20.0	30.0	10.0	18
20	157	VHT20	MCS0	5785	17.2	16.7	99.3	20.0	30.0	10.0	18
20	165	VHT20	MCS0	5825	17.1	16.6	97.0	19.9	30.0	10.1	18
40	38	HT40	MCS0	5190	13.0	12.7	38.6	15.9	24.0	8.1	13
40	46	HT40	MCS0	5230	15.7	15.5	72.6	18.6	24.0	5.4	16
40	38	VHT40	MCS0	5190	13.0	12.7	38.6	15.9	24.0	8.1	13
40	46	VHT40	MCS0	5230	15.7	15.4	71.8	18.6	24.0	5.4	16
40	54	HT40	MCS0	5270	14.2	14.3	53.2	17.3	30.0	12.7	15
40	62	HT40	MCS0	5310	10.7	11.2	24.9	14.0	30.0	16.0	12
40	54	VHT40	MCS0	5270	14.3	14.4	54.5	17.4	30.0	12.6	15
40	62	VHT40	MCS0	5310	10.7	11.2	24.9	14.0	30.0	16.0	12
40	102	HT40	MCS0	5510	10.7	12.3	28.7	14.6	30.0	15.4	13
40	110	HT40	MCS0	5550	14.2	15.5	61.8	17.9	30.0	12.1	16
40	134	HT40	MCS0	5670	13.4	13.5	44.3	16.5	30.0	13.5	14
40	102	VHT40	MCS0	5510	10.7	12.3	28.7	14.6	30.0	15.4	13
40	110	VHT40	MCS0	5550	14.1	15.5	61.2	17.9	30.0	12.1	16
40	134	VHT40	MCS0	5670	13.4	13.6	44.8	16.5	30.0	13.5	14
40	142	HT40	MCS0	5710	15.3	15.5	69.4	18.4	30.0	11.6	16
40	142	VHT40	MCS0	5710	15.3	15.4	68.6	18.4	30.0	11.6	16
40	151	HT40	MCS0	5755	15.6	14.8	66.5	18.2	30.0	11.8	16
40	159	HT40	MCS0	5795	15.5	14.9	66.4	18.2	30.0	11.8	16
40	151	VHT40	MCS0	5755	15.6	14.9	67.2	18.3	30.0	11.7	16
40	159	VHT40	MCS0	5795	15.5	14.9	66.4	18.2	30.0	11.8	16
80	42	VHT80	MCS0	5210	10.6	10.5	22.7	13.6	24.0	10.4	10
80	58	VHT80	MCS0	5290	10.8	11.0	24.6	13.9	30.0	16.1	11
80	106	VHT80	MCS0	5530	9.5	11.0	21.5	13.3	30.0	16.7	11
80	122	VHT80	MCS0	5610	13.4	14.4	49.4	16.9	30.0	13.1	14
80	138	VHT80	MCS0	5690	14.2	14.2	52.6	17.2	30.0	12.8	14
80	155	VHT80	MCS0	5775	14.5	13.7	51.6	17.1	30.0	12.9	14

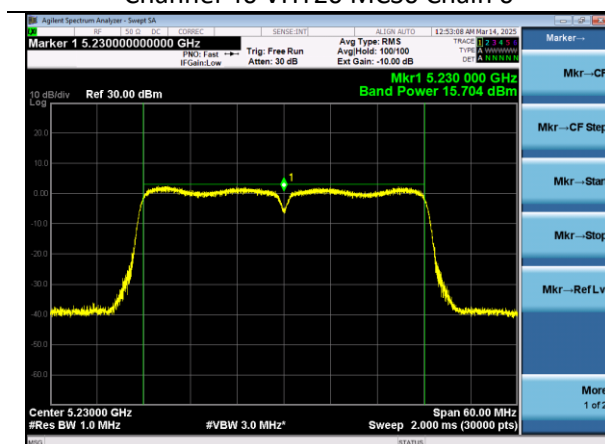
Worst Case Plots



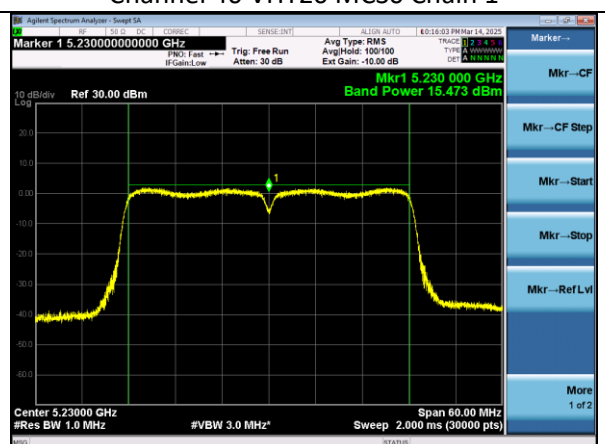
Channel 40 VHT20 MCS0 Chain 0



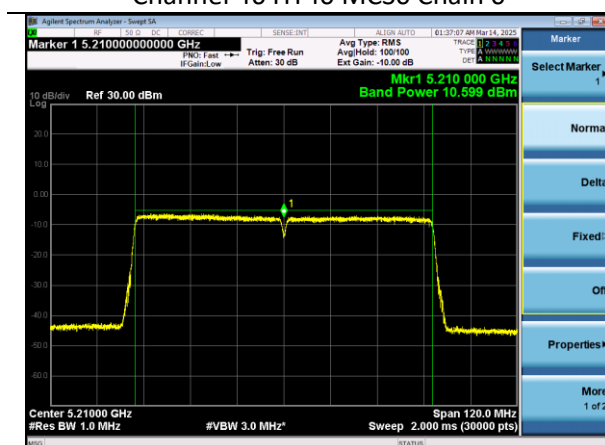
Channel 40 VHT20 MCS0 Chain 1



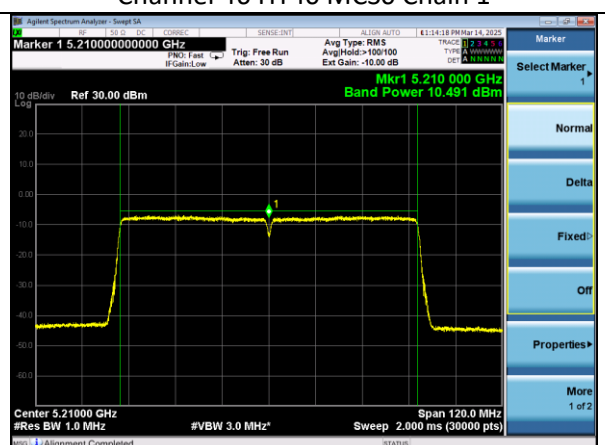
Channel 46 HT40 MCS0 Chain 0



Channel 46 HT40 MCS0 Chain 1



Channel 42 VHT80 MCS0 Chain 0



Channel 42 VHT80 MCS0 Chain 1

Company: DEKA Research		Name: BD Neo Infusion Pump
Report: TR3871G		Model: BD Neo PCU: 9200
		BD Neo Pump Module: 9210
Job: C-3871		Serial: 03010574, 03010575, 03010576

5.1.3 Mobile Device – MPE Evaluation

RF Exposure Evaluation Summary

- Separation Distance: 20 cm
- Exposure Type: Mobile (≥ 20 cm from user)
- Evaluation Method: Maximum Permissible Exposure (MPE)
- FCC MPE Limit (General Population):
 - 2.4/5 GHz: 1.0 mW/cm²

Power Density Calculation

For mobile devices (≥ 20 cm separation), the power density is calculated as:

$$S = EIRP / 4\pi R^2$$

Where:

- S = power density in mW/cm²
- EIRP = equivalent isotropically radiated power in mW
- R = separation distance in cm (typically 20 cm)

EIRP Calculation

$$EIRP = P_{out} * G$$

Where:

- P_{out} = conducted output power
- G = antenna gain (numeric)

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2.4 GHz Radio

Input Parameters

- Output Power 104.7 mW (20.2 dBm)
- Antenna Gain 1.6 dBi $\rightarrow G = 10^{(1.6/10)} \approx 1.45$

Result

- **EIRP** = $104.7 * 1.45 = 151.8 \text{ mW}$
- **S** = $151.8 / (4\pi(20)^2) \approx 0.0301 \text{ mW/cm}^2$
- $0.0301 \text{ mW/cm}^2 \leq 1.0 \text{ mW/cm}^2$

EUT complies with RF exposure limits

5 GHz Radio

Input Parameters

- Output Power 120.6 mW (20.8 dBm)
- Antenna Gain 5.2 dBi $\rightarrow G=10^{(5.2/10)} \approx 3.31$

Result

- **EIRP** = $120.6 * 3.31 = 399.34 \text{ mW}$
- **S** = $399.34 / (4\pi(20)^2) \approx 0.0794 \text{ mW/cm}^2$
- $0.0794 \text{ mW/cm}^2 \leq 1.0 \text{ mW/cm}^2$

EUT complies with RF exposure limits

13.56 MHz Radio (for reference in simultaneous calculations)

Input Parameters

- Output power: $62.7\text{dBuV/m @3m} - 95.2 = -32.5 \text{ dBm}$
- $10^{-32.5/10} = 0.001 \text{ mW}$

Result

- **S** = $0.001/(4\pi(20)^2) = \text{Power density} \approx 0.0000000000199 \text{ mW/cm}^2$

RF Exposure from Multiple Sources

Limit:

$$\sum_{i=1}^a \frac{P_i}{P_{th,i}} + \sum_{j=1}^b \frac{ERP_j}{ERP_{th,j}} + \sum_{k=1}^c \frac{Evaluated_k}{Exposure\ Limit_k} \leq 1$$

The sum of the fractional contributions to the applicable thresholds must be less than or equal to 1.

Ratios:

WLAN 2.4 – 0.03

WLAN 5 – 0.08

13.56MHz – 0.0000000000199

Result

WLAN 2.4 + 5 + 13.56MHz

0.03 + 0.08 + 0.0000000000199 = 0.1100000000199

Simultaneous transmission is compliant with the RF Exposure limit at 20cm as the sum of the ratios to the limit is less than 1.

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6 REVISION HISTORY

Version	Date	Notes	Person
0.0	7/5/2025	Initial Draft	Anthony Smith
0.1	7/28/2025	Draft Revised	Anthony Smith
0.2	8/26/2025	Draft Revised	Anthony Smith
1.0	8/27/2025	Finalized Draft	Anthony Smith
1.1	11/19/2025	References updated	Anthony Smith
1.2	12/13/2025	Simultaneous added	Anthony Smith

END OF REPORT