

"

"

2022 11 11

11 16

SDI BSS+

-

-

2022. 11. 18

25

1.

1)

70L

2)

3)

1900W

4)

0.05mW/cm².

5)

6)

7)

8)

9)

10)

2.

1)

TFM

1

2)

3)

3.

1)

2)

40

62ml

155mm

3)

PTFE-TFM

4)

5)
6)

100bar

300

1.
2.
3.
4.
5.
54

1
2
3
4
5
6
7
8
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10
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12
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47
48
49
50
51
52
53
54

1
2

4 50W
208kHz 8°

2.2.6

2.3

2.3.1 Q1 Q3 0.4amu

24cm

2.3.2 0.4amu

2.3.3 Q2 90° Dwell Time

1ms

2.3.4

2.3.5 Q1 Q3 0.4 amu

2.3.6 2-3000Da Q1 Q3

2.3.7 ± 0.1 amu/24 (

)

2.3.8 5-3000Da 0.1 amu

2.3.9 SRM 1ms

2.3.10 15000amu/s

2.3.11 SRM 600 SRMs/

2.3.12 10 20 50 100 200

500 600SRMs/s 7

10%

2.3.13 30000 SRM

2.3.14 25 ms

2.3.15 (Full Scan Q1 Q3) (SIM Q1 Q3)

(SRM) 0.4 amu T-SRM

(Product Ion Scan) (Precursor Ion Scan)

(Neutral Loss Scan) RER QED SRM

2.4

2.4.1

106

2.5

2.5.1 1 1 4

2.5.2 5- 10-6 Torr

2.6

2.6.1 MS/MS

ESI+ 1pg Q1 0.4 Q3 0.7amu m/z 609>195

150,000 1 RSD 5%

ESI- 1pg m/z 321>152 150,000 1

RSD 5%

3.

3.1
 3.1.1 1000bar
 3.1.2 0.001~8.000 mL/min 0.001 mL/min
 3.1.3 0.05%RSD
 3.1.4 0.15% RSD
 3.1.5 ± 0.2%
 3.2
 3.2.1 0.1~100μ L 0.1μ L
 3.2.2 0.3% RSD
 3.2.3 0.005%
 3.2.4 1000bar
 3.2.5 200
 3.3
 3.3.1 5~80
 3.3.2 ± 0.1
 4

Windows LC MS/MS

Window 10 64bit

5
 5.1
 5.1.1 1
 5.1.2 ESI 1
 5.1.3 1
 5.2
 5.2.1 1
 5.2.2 1
 5.2.3 1
 5.2.4 1
 5.3
 5.3.1 UPS 1 6KVA UPS 1
 5.3.2
 5.3.3 1
 5.3.4 1

Office

Office Office
 1 xp\win7\win8\win10\linux

2

3)

CNAS

4)

CNAS

| | | | |
|--------|-------------------------------|-------|----------------|
| 5.3.5 | HYPERSIL GOLD 1.9UM 100X2.1MM | 1 | Hypersil GOLD™ |
| C18 | HPLC | 1 | |
| 5.3.6 | 1L 4 | 4 | |
| 5.3.7 | | 1.5mL | 1000 |
| 5.3.8 | 1 | | |
| 5.3.9 | | 1 | |
| 5.3.10 | | 1 | |
| 5.3.11 | | 1 | |
| 5.3.12 | | 3 | |
| 5.3.13 | | 2 | |
| 5.3.14 | | 3 | |

63

-

1

1.1

<0.0008 min

RSD <0.5%

1.1.1

1.1.1.1

3°C 450°C

1.1.1.2

1°C 0.1°C

1.1.1.3

450°C 50°C <4min

1.1.1.4

29 30 ;

1.1.1.5

: 0.01°C /1°C

1.1.1.6

125 min;

1.1.2

1.1.2.1 >12000:1

1.1.2.2

: 1000 kPa 145psi

0.01Kpa

1.1.2.3

400°C

1.1.2.4

0 145psi

1.1.2.5

1.1.3
 1.1.3.1 0.1-100µ L
 1.1.3.2 100
 1.1.3.3 99%
 1.2
 1.2.1 :
 1.2.2 " S"
 1.2.3" S"
 1.2.4 0-59ev
 1.2.5 1.2-1100 m/z
 1.2.6 ± 0.10u/48
 1.2.7 20000u/sec
 1.2.8 0.4 5amu
 1.2.9 (EI MRM IDL) 4fg
 (OFN) 100fg OFN 8 , 5% RSD
 1.2.10
 1.2.10.1 EI MRM 100fg , / 50000:1(272 222)
 1.2.11 MRM 800 MRM/
 1.2.12 0.5ms
 1.2.13
 1.2.14
 1.2.15 0 350uA
 1.2.16 0 150eV
 1.2.17 350°C
 1.2.18 ,
 1.2.19 >107
 1.2.20 ,
 240L/s
 1.2.21 : 400°C
 1.3
 1.3.1 , ,
 1.3.2 / , , , , ,
 1.3.3 EPA
 1.3.4 : NIST (22)

1.3.5 Microsoft Windows Office

GLP

21 CFR Part 11

2

| | | | | | | |
|------|------|----|-------|----|--------|---|
| 2.1 | | 1 | | | | |
| 2.2 | / | | 1 | | | |
| 2.3 | | 1 | | | | |
| 2.4 | | | | EI | | 1 |
| 2.5 | NIST | | 1 | | | |
| 2.6 | | | 100/ | | 2 | |
| 2.7 | | | , 50/ | | 1 | |
| 2.8 | / | | 5 | | | |
| 2.9 | 0 | 1/ | 10 | | | |
| 2.10 | | 2/ | 1 | | | |
| 2.11 | | | | GC | 0.25mm | 2 |
| 2.12 | | | 1 | | | |
| 2.13 | | | 1 | | | |
| 2.14 | | | 1 | | | |
| 2.15 | 6KVA | | 1 | | 1 | |
| 2.16 | 30 | | | | | |

68

-10 30 AC 220 V, 50 Hz

| | | | | | | |
|--------|--|----------|--|------|----------|--|
| 2.1 | | | | | | |
| 2.1.1. | | 35L | | 6KG | | |
| 2.1.2 | | 5KG/24Hr | | | | |
| 2.1.3. | | -65 | | | | |
| 2.1.4. | | 1Pa | | | | |
| 2.1.5. | | 20 | | --40 | 30min | |
| 2.1.6 | | | | 5pa | 15min() | |
| 2.2 | | | | | | |
| 2.2.1 | | 76mm | | | | |
| 2.2.2 | | 300mm | | | | |
| 2.2.3 | | | | +50 | | |
| 2.2.4 | | | | | -40 | |
| 2.2.5 | | ± 1 | | | | |

3.1 PLC LINUX

3.2 USB TCP

3.3

3.4