

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN082418\
 Data File : VN050881.D
 Acq On : 24 Aug 2018 16:56
 Operator : MD\SY
 Sample : PB112339ZHE#07
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 22 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB112339ZHE#07

Quant Time: Aug 24 22:56:17 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N082118W.M
 Quant Title : SW846 8260
 QLast Update : Wed Aug 22 05:38:12 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	587050	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	996700	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	835622	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	250632	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	394245	55.78	ug/l	0.00
Spiked Amount			Recovery	=	111.56%	
35) Dibromofluoromethane	7.59	113	375188	47.32	ug/l	0.00
Spiked Amount			Recovery	=	94.64%	
50) Toluene-d8	10.09	98	1348925	45.50	ug/l	0.00
Spiked Amount			Recovery	=	91.00%	
62) 4-Bromofluorobenzene	12.40	95	349090	35.44	ug/l	0.00
Spiked Amount			Recovery	=	70.88%	

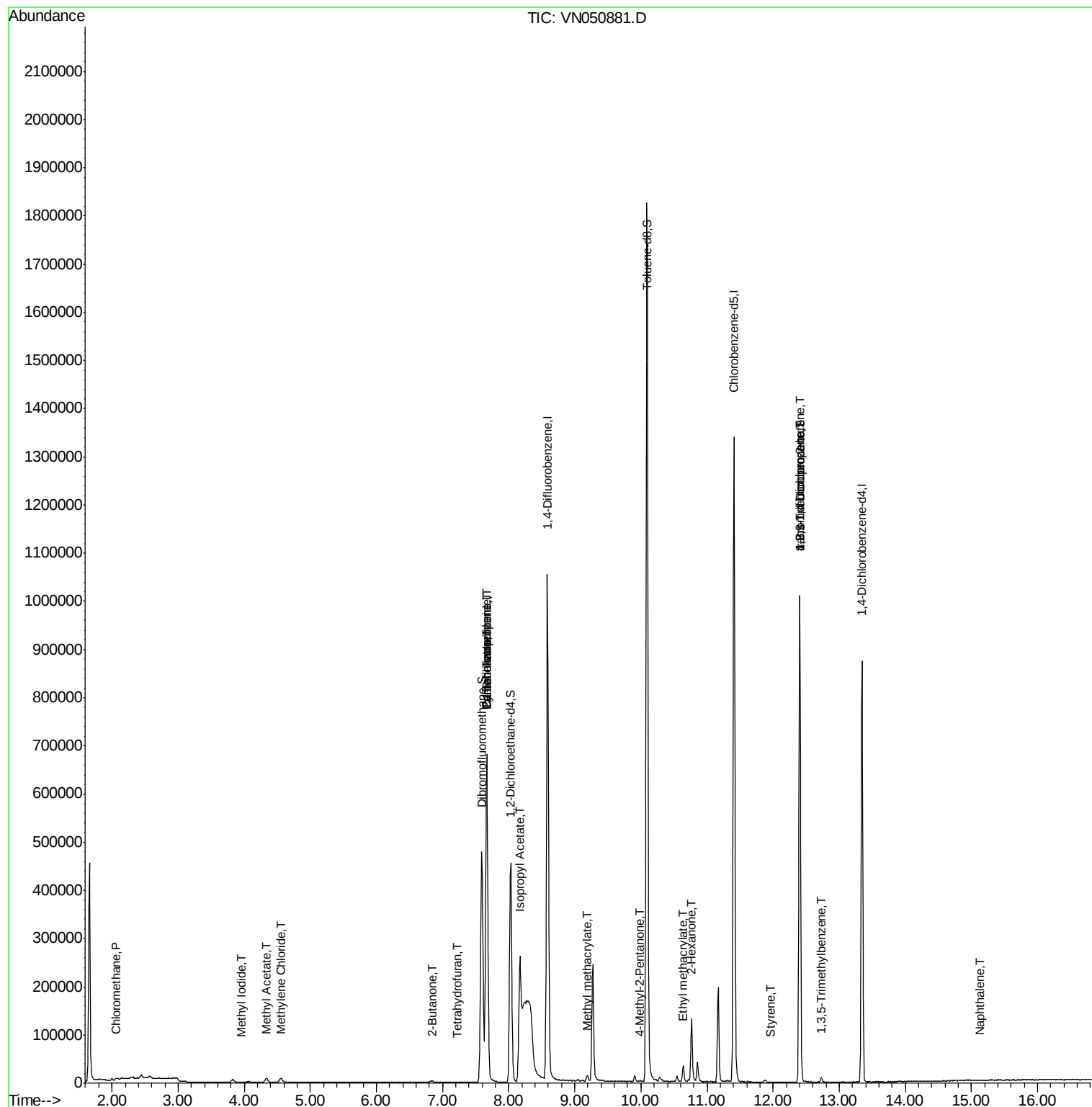
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	2588	0.27	ug/l	90
5) Bromomethane	2.56	94	2493	Below	Cal	82
10) Methyl Iodide	3.96	142	600	6.42	ug/l #	62
16) Acetone	3.83	43	11295	Below	Cal	99
18) Methyl Acetate	4.33	43	16893	2.53	ug/l	94
20) Methylene Chloride	4.55	84	7322	0.92	ug/l	95
25) 2-Butanone	6.84	43	810	0.28	ug/l #	47
29) Tetrahydrofuran	7.22	42	793	0.49	ug/l #	45
31) Cyclohexane	7.67	56	10463	1.33	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	40031	3.40	ug/l #	48
38) Carbon Tetrachloride	7.67	117	53859	4.53	ug/l #	17
43) Isopropyl Acetate	8.17	43	339215	29.20	ug/l #	89
48) Methyl methacrylate	9.18	41	7889	1.33	ug/l #	18
51) 4-Methyl-2-Pentanone	9.99	43	1726	0.25	ug/l #	77
56) Ethyl methacrylate	10.64	69	575	2.40	ug/l #	1
59) 2-Hexanone	10.77	43	18047	3.91	ug/l #	58
70) Styrene	11.97	104	70	1.27	ug/l #	26
75) 1,1,2,2-Tetrachloroethane	12.40	83	91	Below	Cal #	1
76) 1,2,3-Trichloropropane	12.40	75	163239	37.19	ug/l #	100
80) 1,3,5-Trimethylbenzene	12.74	105	4590	0.27	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.40	75	163239	125.71	ug/l #	15
95) Naphthalene	15.14	128	174	5.42	ug/l #	69

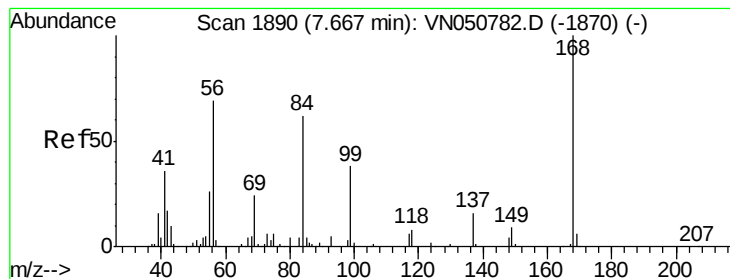
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Aug 22 05:38:12 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

Instrument :

MSVOA_N

ClientSampleId :

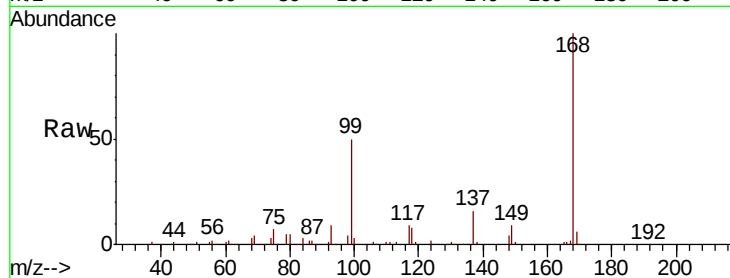
PB112339ZHE#07

Tot Ion:168 Resp: 587050

Ion Ratio Lower Upper

168 100

99 50.0 39.6 59.4



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

250000

200000

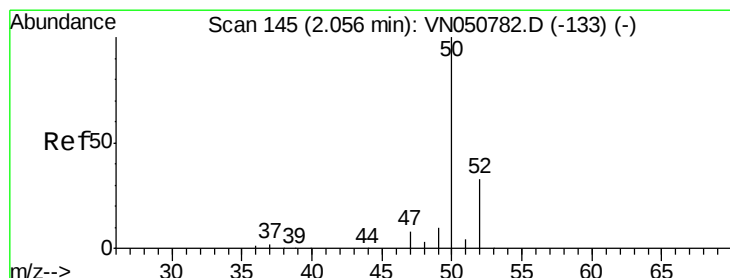
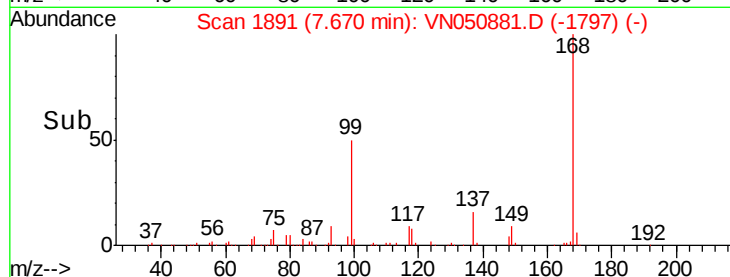
150000

100000

50000

0

Time-->



#3

Chloromethane

Concen: 0.27 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050881.D

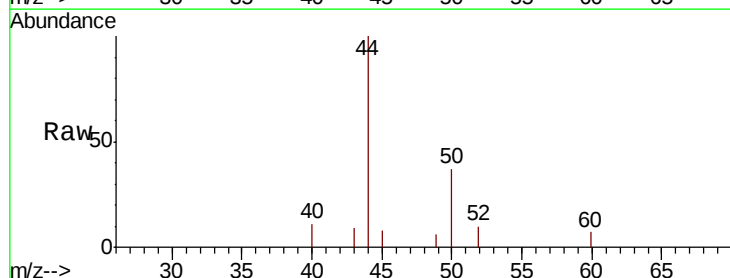
Acq: 24 Aug 2018 16:56

Tgt Ion: 50 Resp: 2588

Ion Ratio Lower Upper

50 100

52 27.5 26.3 39.5



Abundance Ion 49.90 (49.60 to 50.60): VNO

Ion 51.90 (51.60 to 52.60): VNO

2000

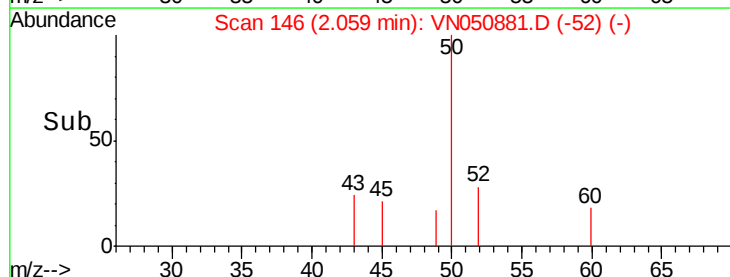
1500

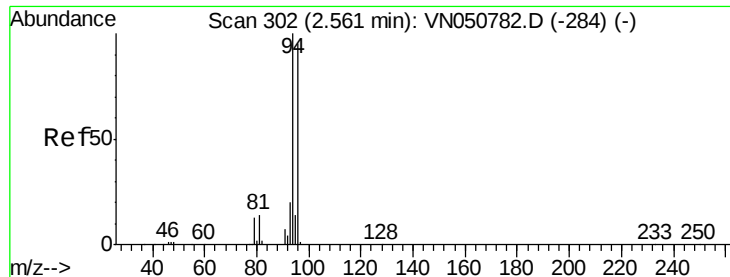
1000

500

0

Time-->





#5

Bromomethane

Concen: Below Cal

RT: 2.56 min Scan# 303

Delta R.T. 0.00 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

Instrument :

MSVOA_N

ClientSampleId :

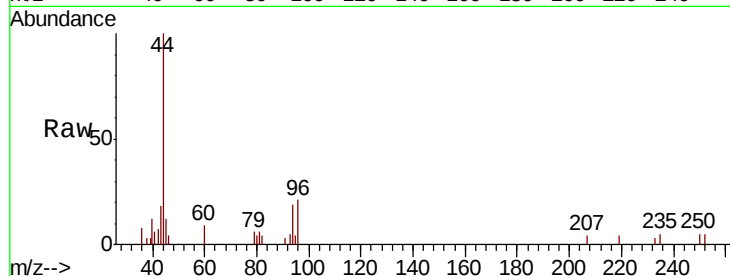
PB112339ZHE#07

Tot Ion: 94 Resp: 2493

Ion Ratio Lower Upper

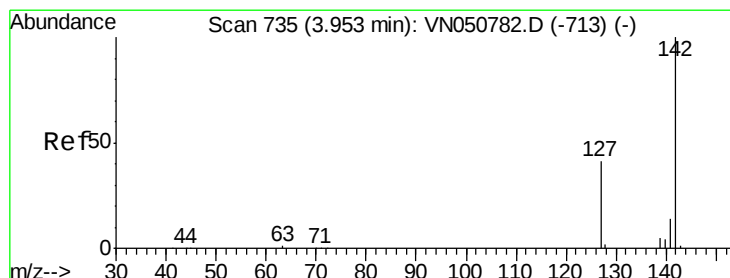
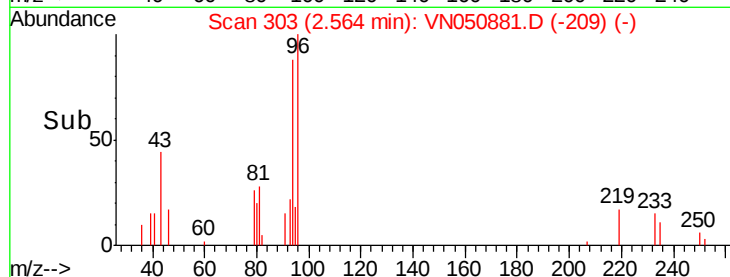
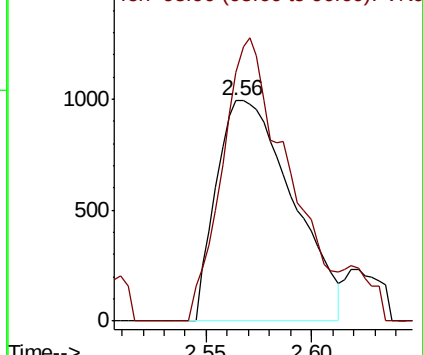
94 100

96 113.1 76.2 114.2



Abundance Ion 93.90 (93.60 to 94.60): VN050881.D (-209) (-)

Ion 95.90 (95.60 to 96.60): VN050881.D (-209) (-)



#10

Methyl Iodide

Concen: 6.42 ug/l

RT: 3.96 min Scan# 737

Delta R.T. 0.01 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

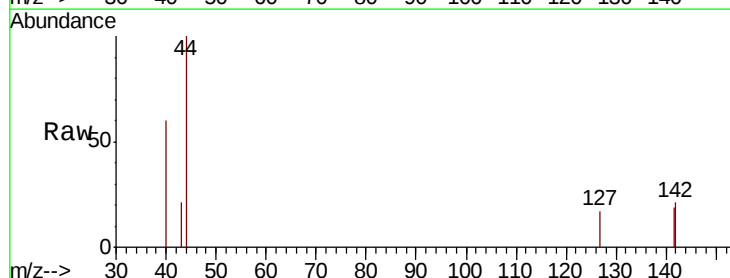
Tgt Ion: 142 Resp: 600

Ion Ratio Lower Upper

142 100

127 15.3 31.7 47.5#

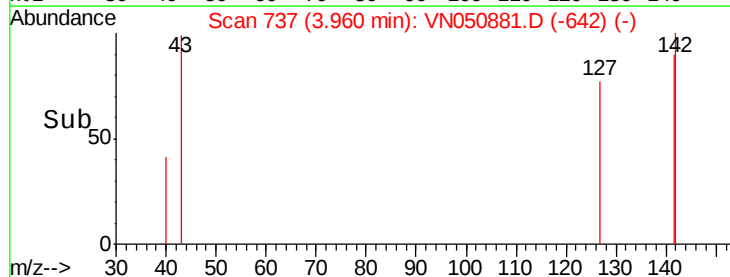
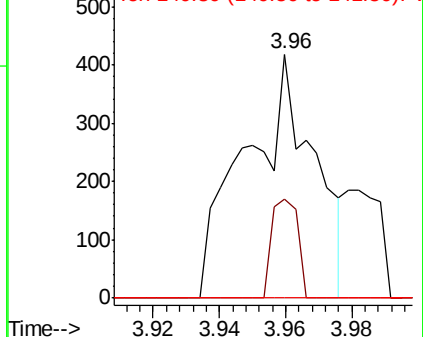
141 0.0 11.4 17.0#

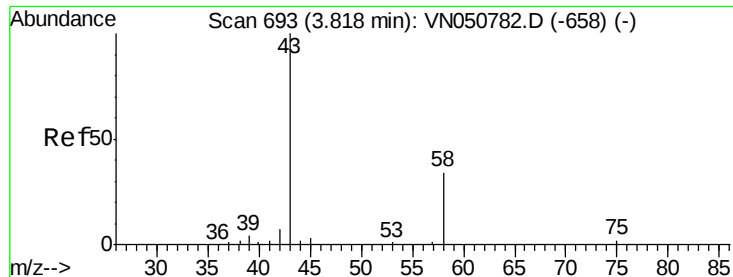


Abundance Ion 141.80 (141.50 to 142.50): VN050881.D (-642) (-)

Ion 126.80 (126.50 to 127.50): VN050881.D (-642) (-)

Ion 140.80 (140.50 to 141.50): VN050881.D (-642) (-)





#16

Acetone

Concen: Below Cal

RT: 3.83 min Scan# 697

Delta R.T. 0.01 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

Instrument :

MSVOA_N

ClientSampleId :

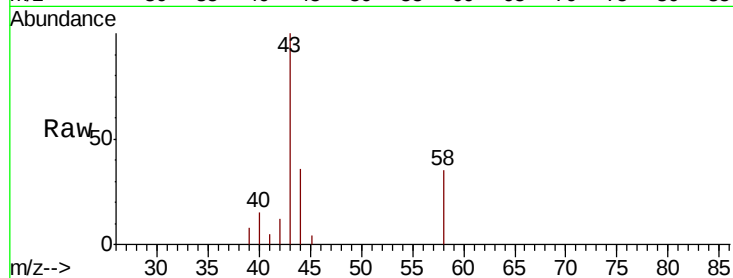
PB112339ZHE#07

Tot Ion: 43 Resp: 11295

Ion Ratio Lower Upper

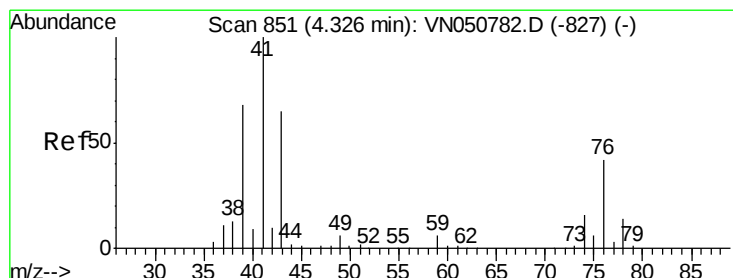
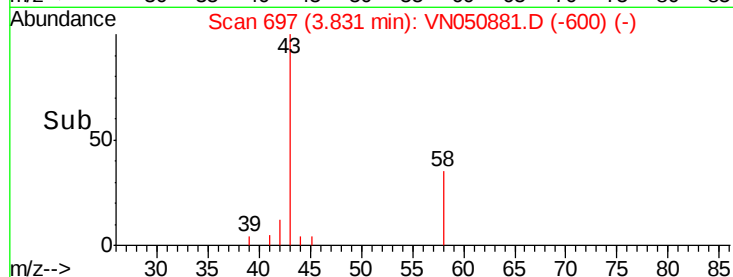
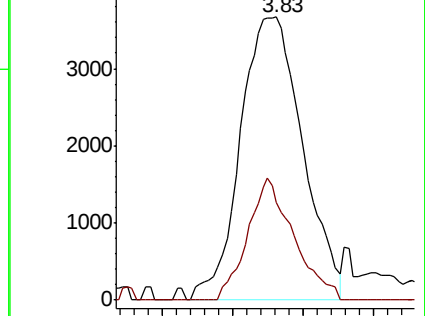
43 100

58 34.6 27.2 40.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Methyl Acetate

Concen: 2.53 ug/l

RT: 4.33 min Scan# 853

Delta R.T. 0.01 min

Lab File: VN050881.D

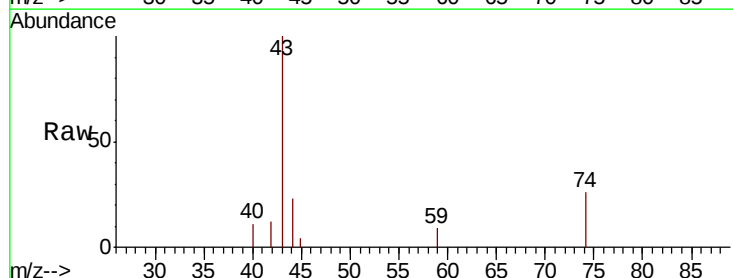
Acq: 24 Aug 2018 16:56

Tgt Ion: 43 Resp: 16893

Ion Ratio Lower Upper

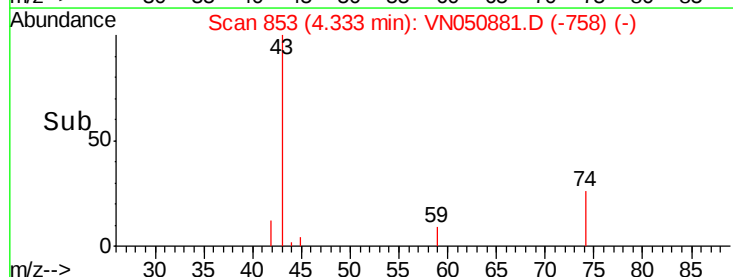
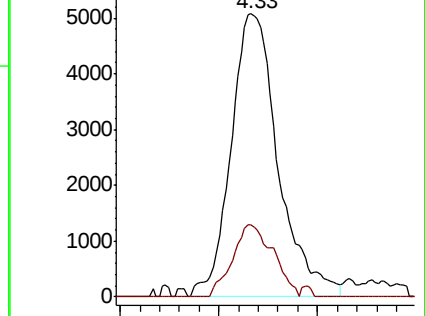
43 100

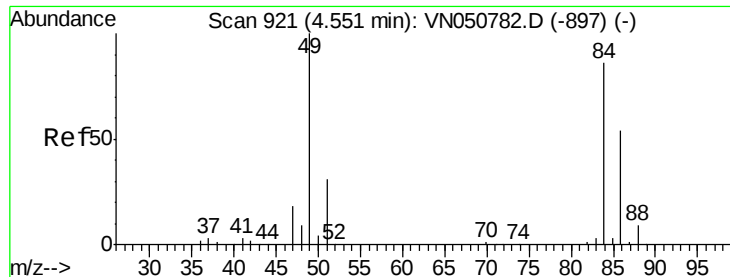
74 22.0 19.8 29.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0



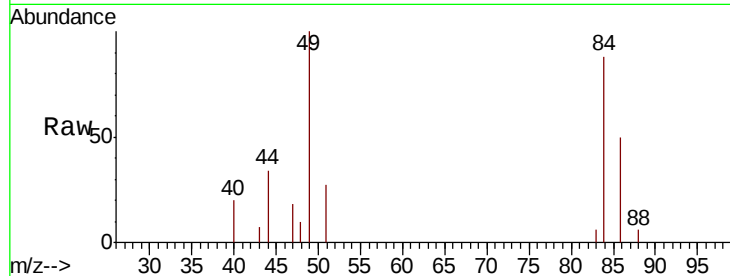


#20
Methvlene Chloride
Concen: 0.92 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN050881.D
Acq: 24 Aug 2018 16:56

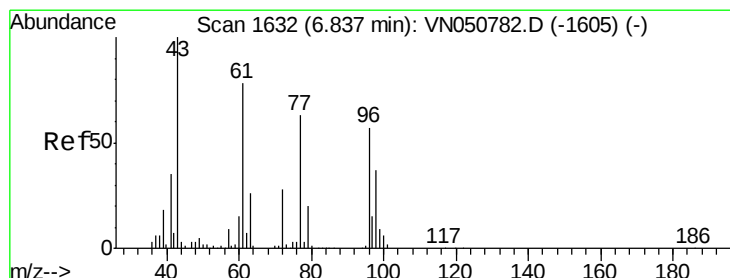
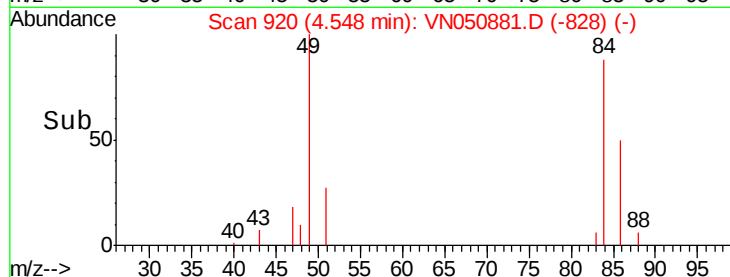
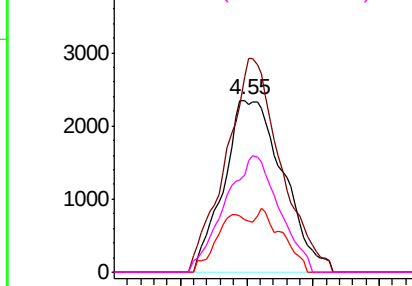
Instrument :
MSVOA_N
ClientSampleId :
PB112339ZHE#07

Tot Ion: 84 Resp: 7322

Ion	Ratio	Lower	Upper
84	100		
49	113.9	93.2	139.8
51	30.9	29.0	43.6
86	56.7	49.8	74.8



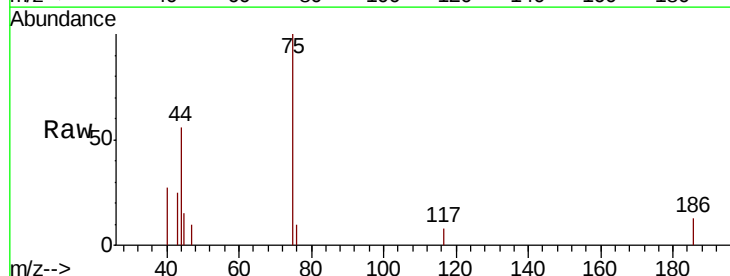
Abundance Ion 83.90 (83.60 to 84.60): VNC
Ion 48.90 (48.60 to 49.60): VNC
Ion 50.90 (50.60 to 51.60): VNC
Ion 85.90 (85.60 to 86.60): VNC



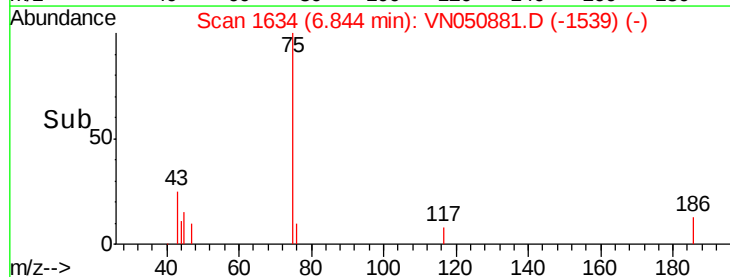
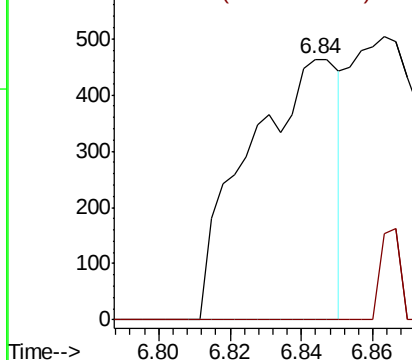
#25
2-Butanone
Concen: 0.28 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.01 min
Lab File: VN050881.D
Acq: 24 Aug 2018 16:56

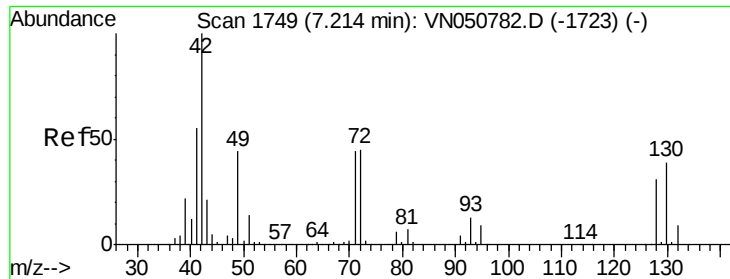
Tgt Ion: 43 Resp: 810

Ion	Ratio	Lower	Upper
43	100		
72	0.0	22.3	33.5#



Abundance Ion 43.00 (42.70 to 43.70): VNC
Ion 72.00 (71.70 to 72.70): VNC





#29

Tetrahydrofuran

Concen: 0.49 ug/l

RT: 7.22 min Scan# 1751

Delta R.T. 0.01 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

Instrument :

MSVOA_N

ClientSampleId :

PB112339ZHE#07

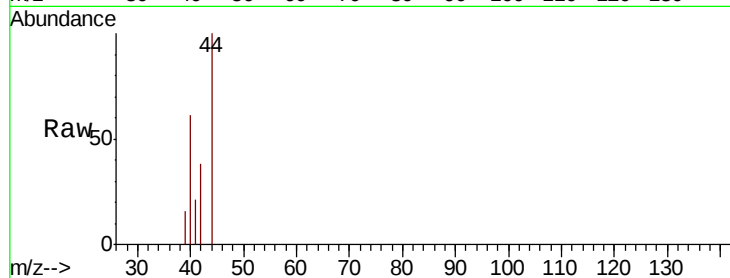
Tot Ion: 42 Resp: 793

Ion Ratio Lower Upper

42 100

72 7.6 35.5 53.3#

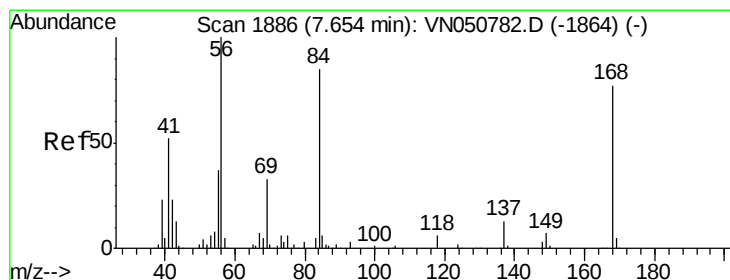
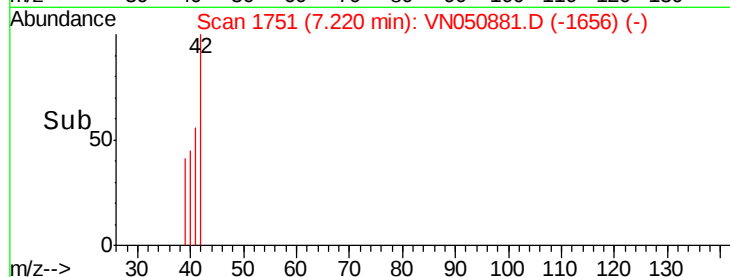
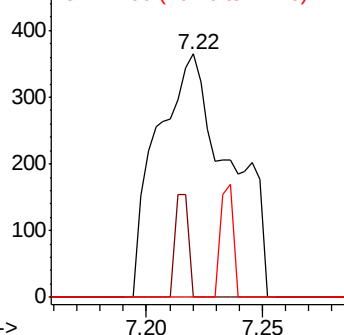
71 7.9 33.7 50.5#



Abundance Ion 42.00 (41.70 to 42.70): VN0

Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



#31

Cyclohexane

Concen: 1.33 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. 0.01 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

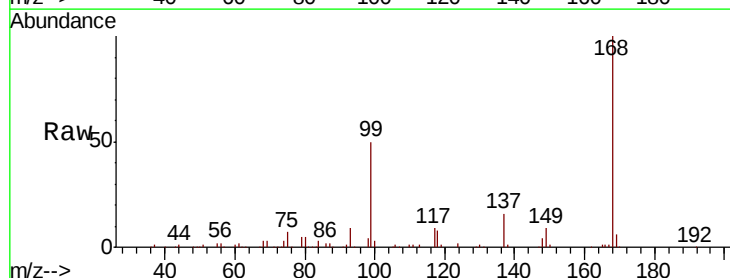
Tgt Ion: 56 Resp: 10463

Ion Ratio Lower Upper

56 100

69 216.3 26.2 39.4#

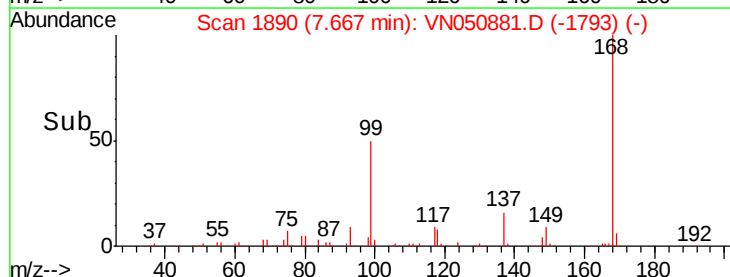
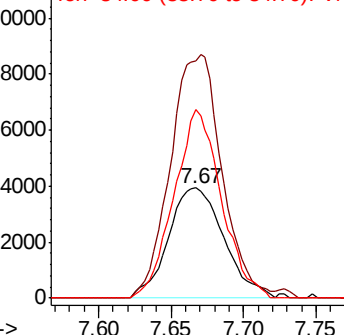
84 171.9 68.3 102.5#

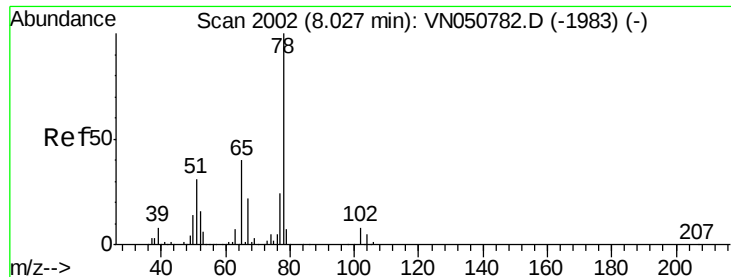


Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 69.00 (68.70 to 69.70): VN0

Ion 84.00 (83.70 to 84.70): VN0





#33

1,2-Dichloroethane-d4

Concen: 55.78 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. 0.00 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

Instrument :

MSVOA_N

ClientSampleId :

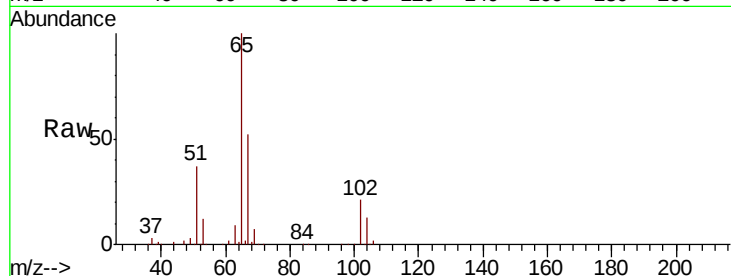
PB112339ZHE#07

Tot Ion: 65 Resp: 394245

Ion Ratio Lower Upper

65 100

67 54.2 0.0 110.4



Abundance Ion 64.90 (64.60 to 65.60): VN050782.D (-1983) (-)

Ion 66.90 (66.60 to 67.60): VN050782.D (-1983) (-)

8.03

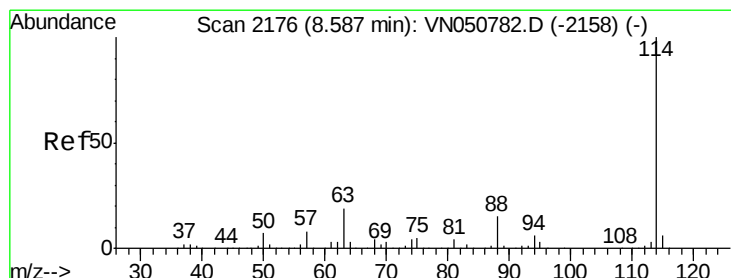
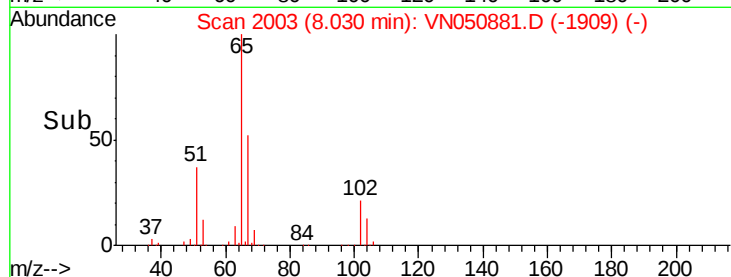
150000

100000

50000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.59 min Scan# 2177

Delta R.T. 0.00 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

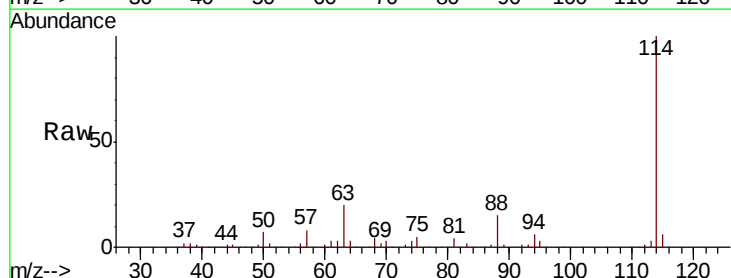
Tgt Ion: 114 Resp: 996700

Ion Ratio Lower Upper

114 100

63 19.5 0.0 38.6

88 14.9 0.0 30.6



Abundance Ion 113.90 (113.60 to 114.60): VN050782.D (-2158) (-)

Ion 63.00 (62.70 to 63.70): VN050782.D (-2158) (-)

Ion 87.90 (87.60 to 88.60): VN050782.D (-2158) (-)

8.59

600000

500000

400000

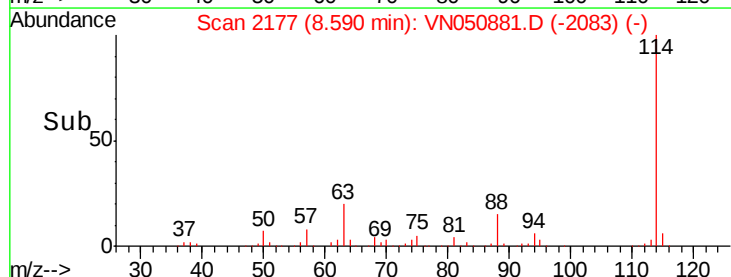
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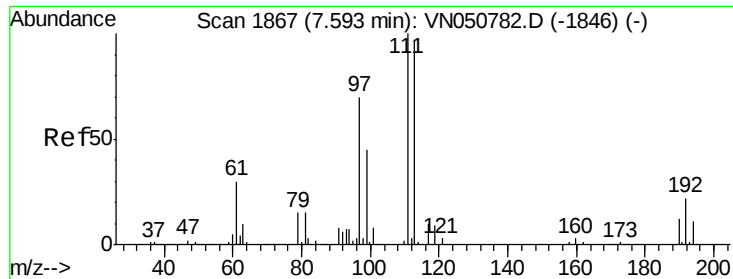
200000

100000

0

Time-->

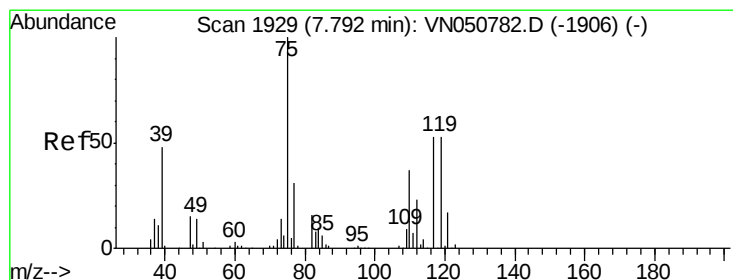
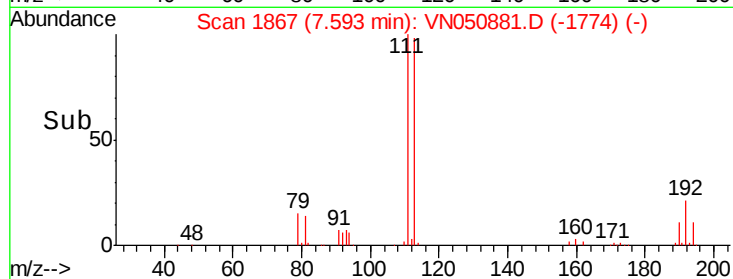
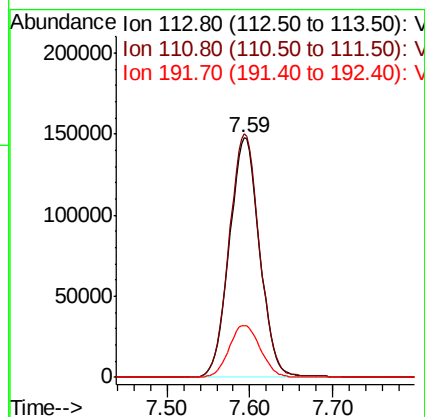
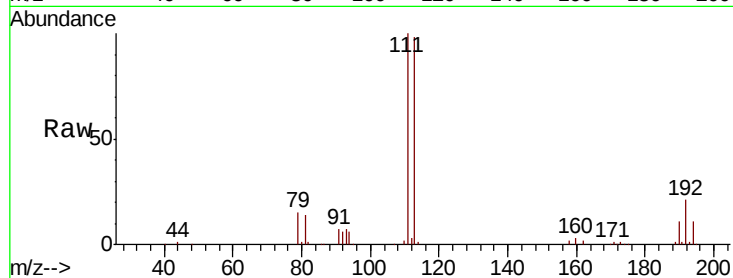




#35
 Dibromofluoromethane
 Concen: 47.32 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. -0.00 min
 Lab File: VN050881.D
 Acq: 24 Aug 2018 16:56

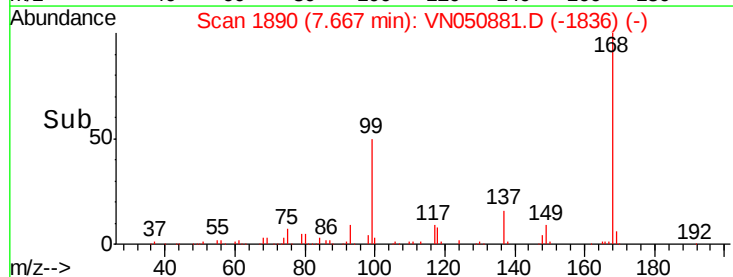
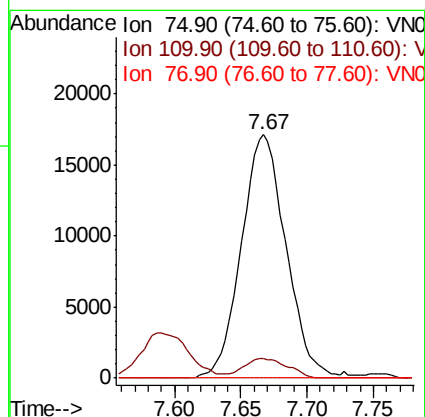
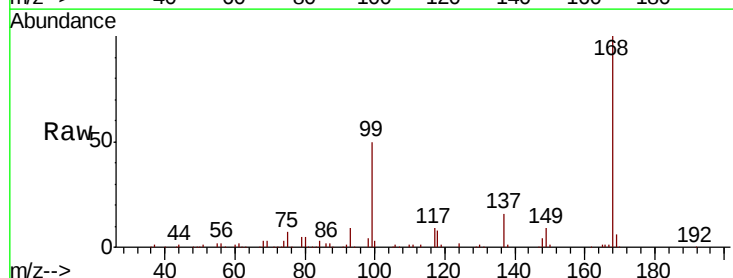
Instrument :
 MSVOA_N
 ClientSampleId :
 PB112339ZHE#07

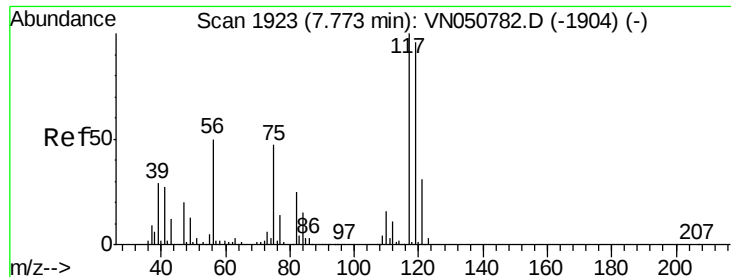
Tot Ion	Ratio	Lower	Upper
113	100		
111	101.5	82.6	123.8
192	22.4	18.0	27.0



#36
 1,1-Dichloropropene
 Concen: 3.40 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050881.D
 Acq: 24 Aug 2018 16:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	7.8	18.1	54.4#
77	0.0	24.8	37.2#





#38

Carbon Tetrachloride

Concen: 4.53 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. -0.10 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

Instrument :

MSVOA_N

ClientSampleId :

PB112339ZHE#07

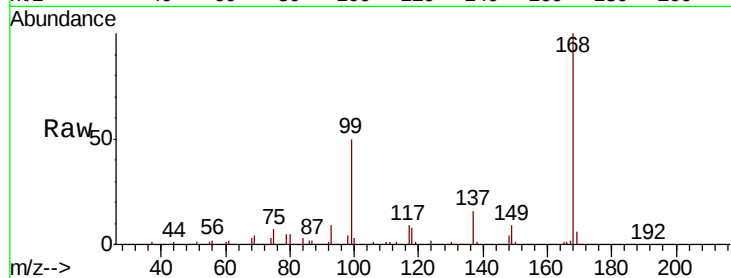
Tot Ion:117 Resp: 53859

Ion Ratio Lower Upper

117 100

119 5.6 76.3 114.5#

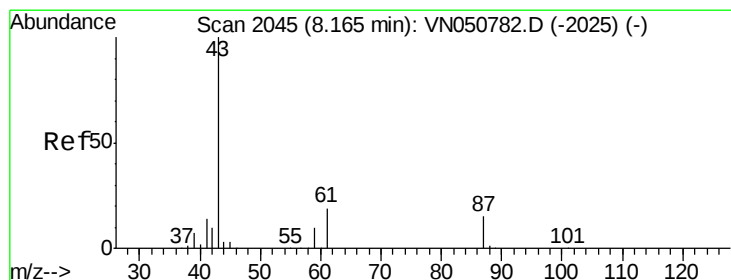
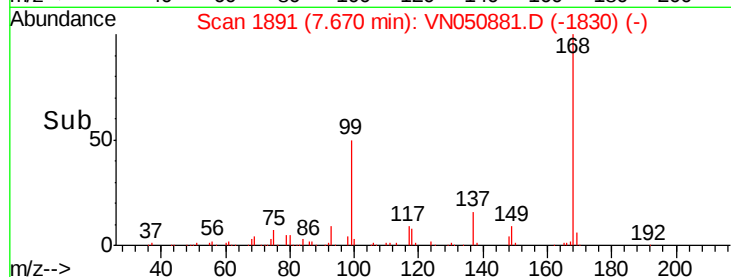
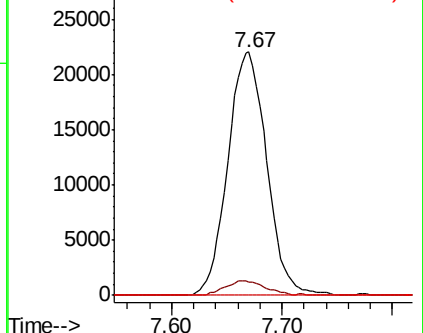
121 0.0 24.6 36.8#



Abundance Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V



#43

Isopropyl Acetate

Concen: 29.20 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

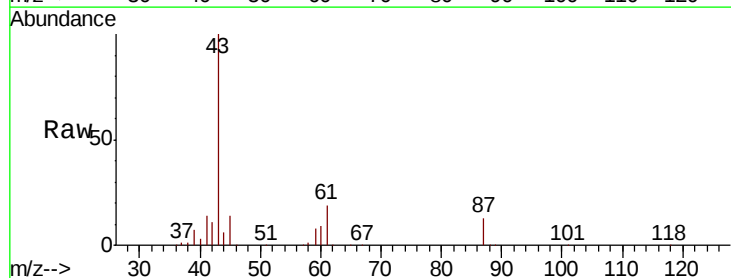
Tgt Ion: 43 Resp: 339215

Ion Ratio Lower Upper

43 100

61 16.0 17.5 26.3#

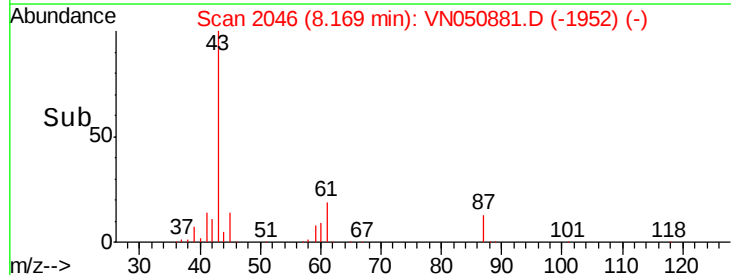
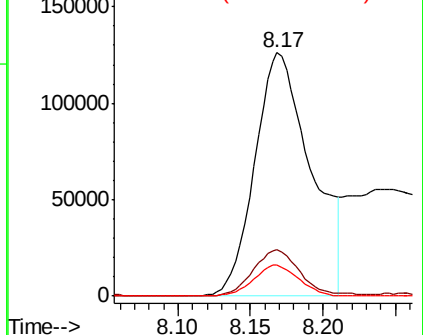
87 10.2 11.3 16.9#

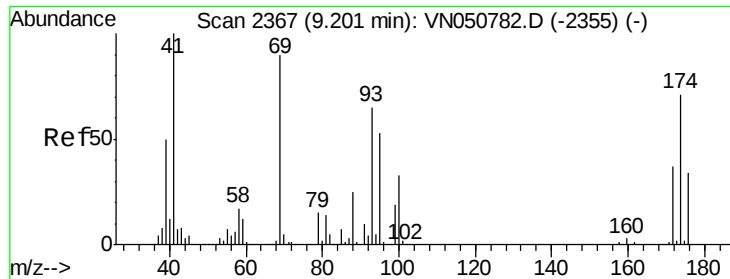


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

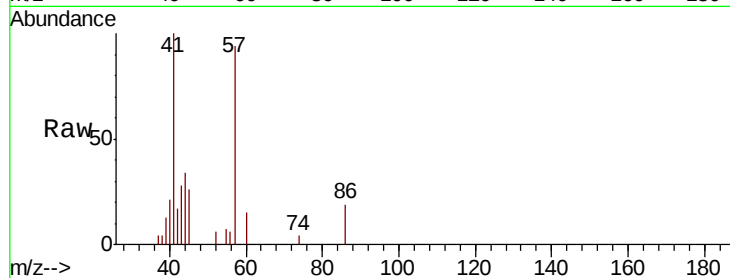




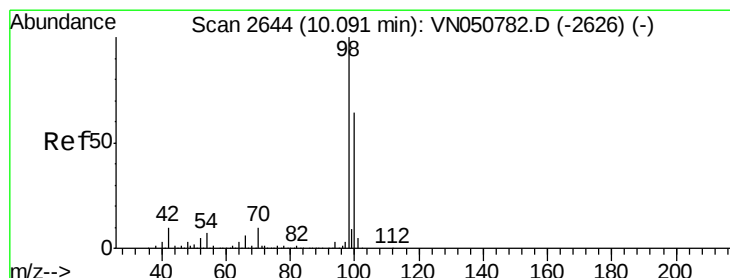
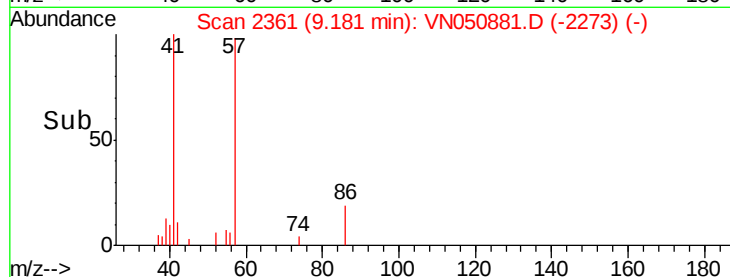
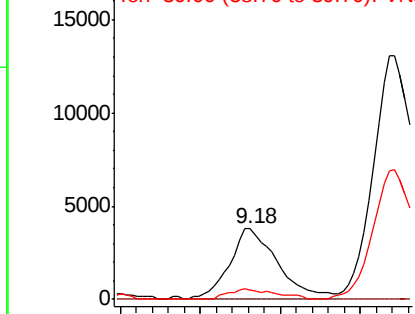
#48
Methyl methacrylate
Concen: 1.33 ug/l
RT: 9.18 min Scan# 2361
Delta R.T. -0.02 min
Lab File: VN050881.D
Acq: 24 Aug 2018 16:56

Instrument :
MSVOA_N
ClientSampleId :
PB112339ZHE#07

Tot Ion: 41 Resp: 7889
Ion Ratio Lower Upper
41 100
69 0.0 74.7 112.1#
39 13.6 42.2 63.2#

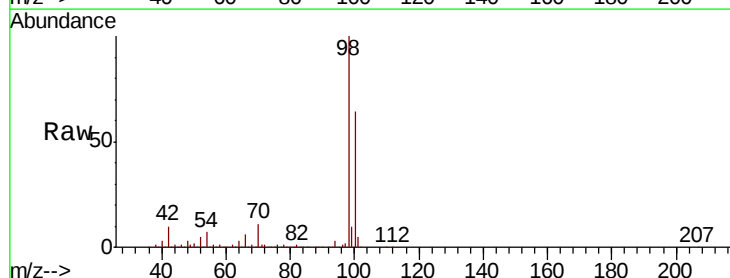


Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0

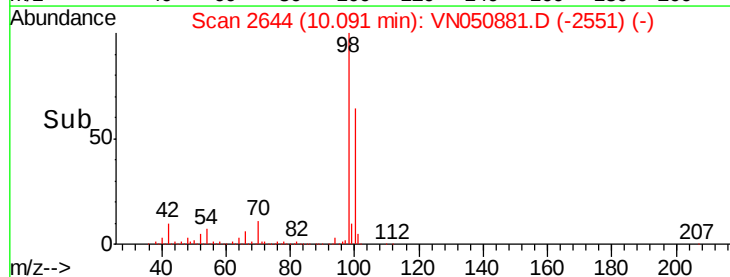
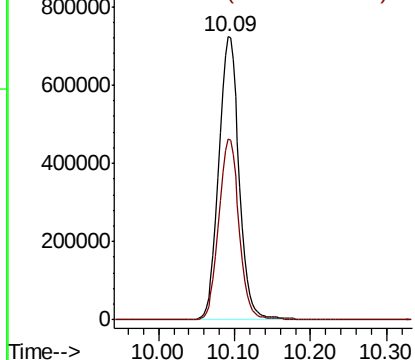


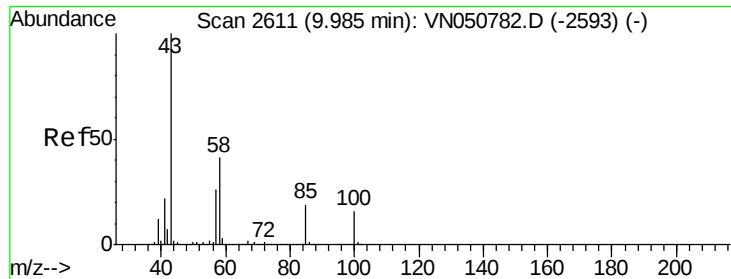
#50
Toluene-d8
Concen: 45.50 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. -0.00 min
Lab File: VN050881.D
Acq: 24 Aug 2018 16:56

Tgt Ion: 98 Resp: 1348925
Ion Ratio Lower Upper
98 100
100 63.7 51.5 77.3



Abundance Ion 98.00 (97.70 to 98.70): VN0
Ion 100.00 (99.70 to 100.70): VN0

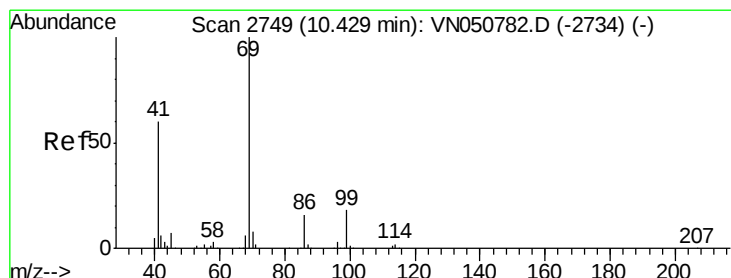
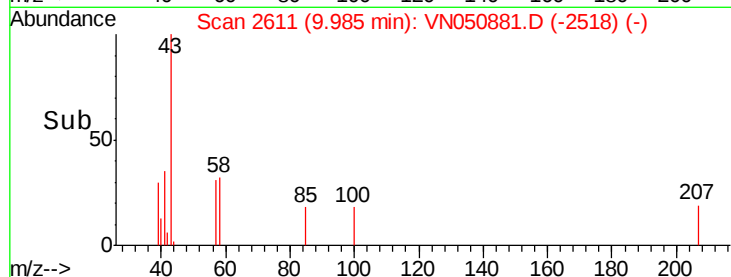
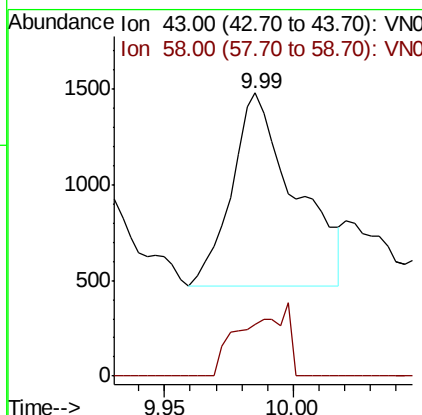
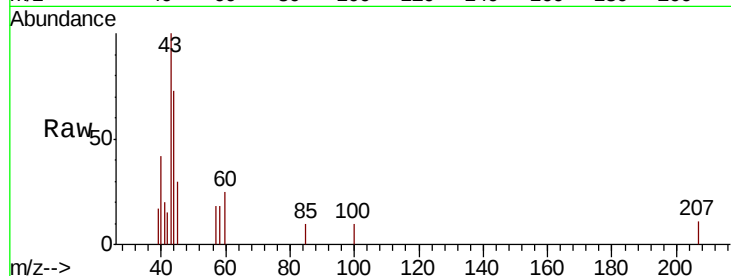




#51
4-Methyl-2-Pentanone
Concen: 0.25 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050881.D
Acq: 24 Aug 2018 16:56

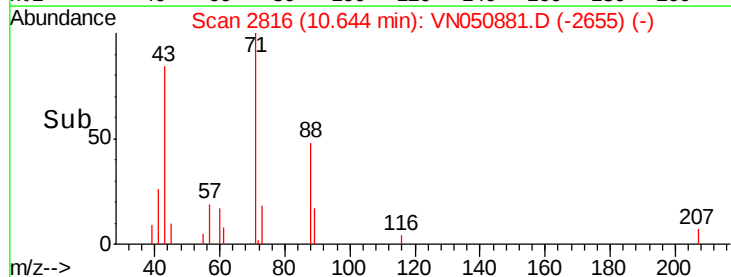
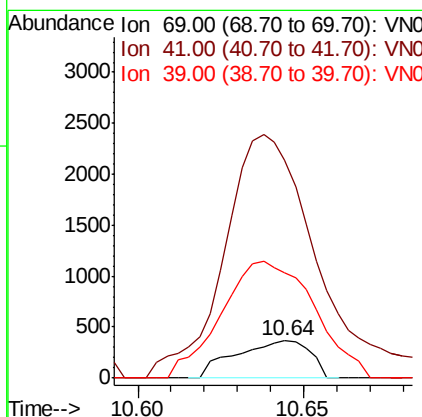
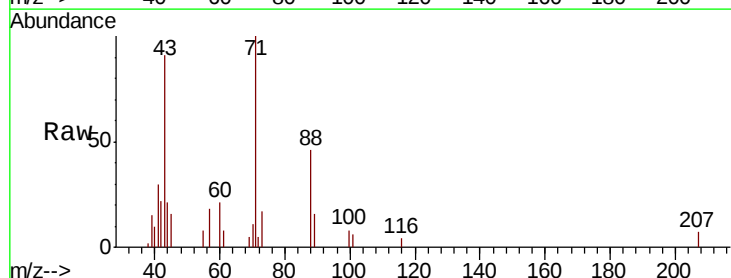
Instrument :
MSVOA_N
ClientSampleId :
PB112339ZHE#07

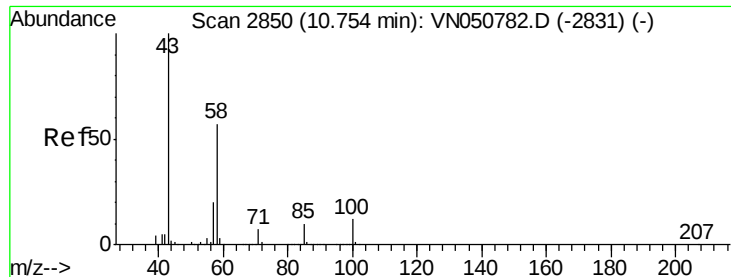
Tot Ion: 43 Resp: 1726
Ion Ratio Lower Upper
43 100
58 26.4 32.4 48.6#



#56
Ethyl methacrylate
Concen: 2.40 ug/l
RT: 10.64 min Scan# 2816
Delta R.T. 0.22 min
Lab File: VN050881.D
Acq: 24 Aug 2018 16:56

Tgt Ion: 69 Resp: 575
Ion Ratio Lower Upper
69 100
41 812.2 48.3 72.5#
39 389.9 24.0 36.0#

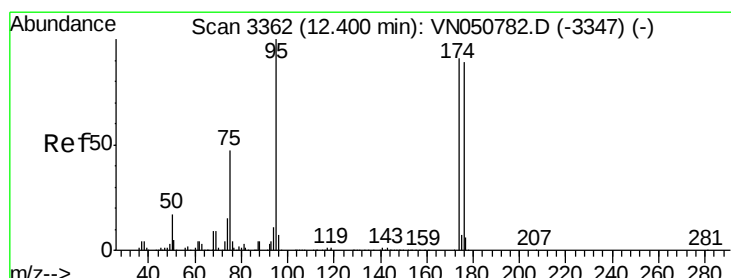
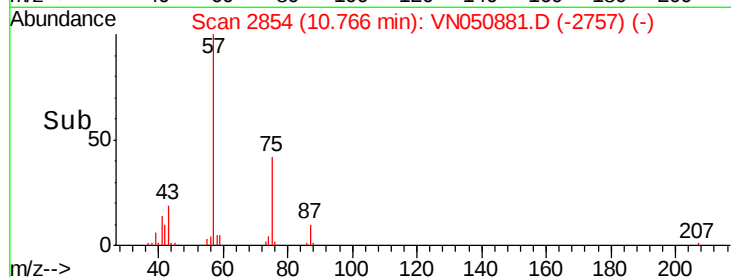
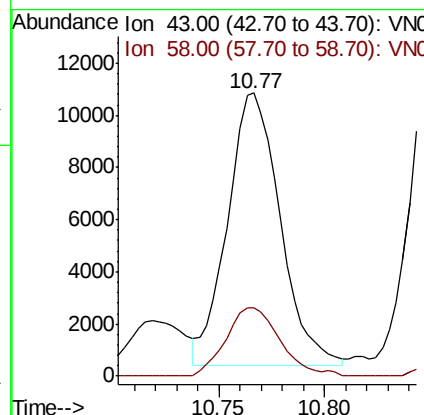
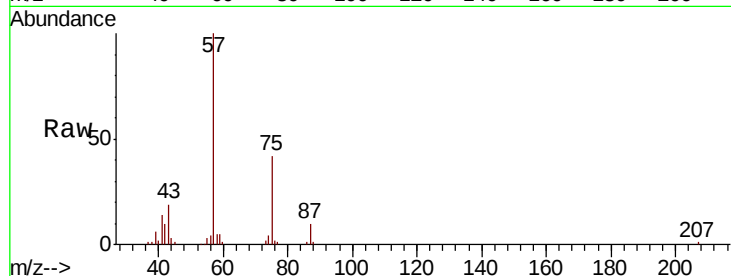




#59
2-Hexanone
Concen: 3.91 ug/l
RT: 10.77 min Scan# 2854
Delta R.T. 0.01 min
Lab File: VN050881.D
Acq: 24 Aug 2018 16:56

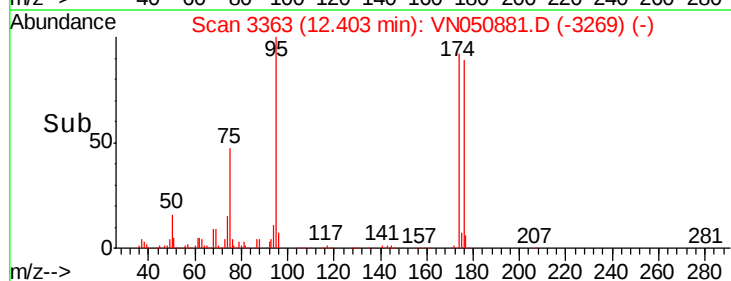
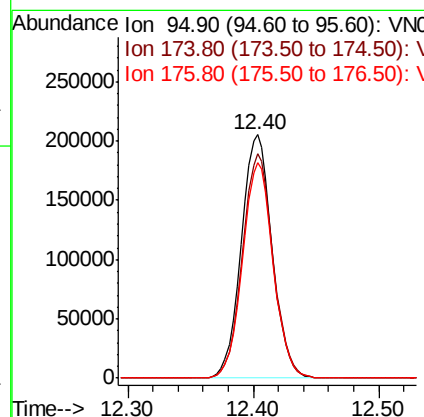
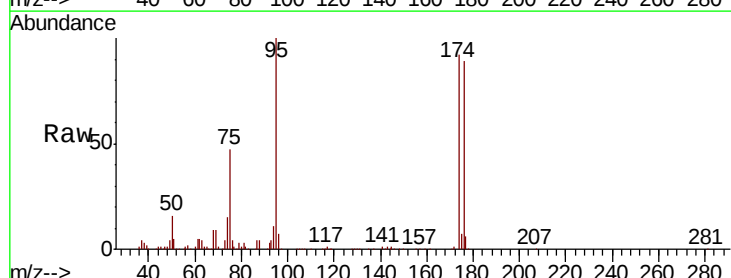
Instrument :
MSVOA_N
ClientSampleId :
PB112339ZHE#07

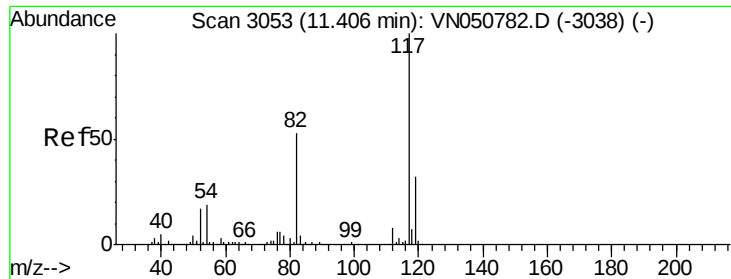
Tot Ion: 43 Resp: 18047
Ion Ratio Lower Upper
43 100
58 26.1 28.3 85.0#



#62
4-Bromofluorobenzene
Concen: 35.44 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. 0.00 min
Lab File: VN050881.D
Acq: 24 Aug 2018 16:56

Tgt Ion: 95 Resp: 349090
Ion Ratio Lower Upper
95 100
174 92.1 0.0 183.0
176 88.3 0.0 178.8

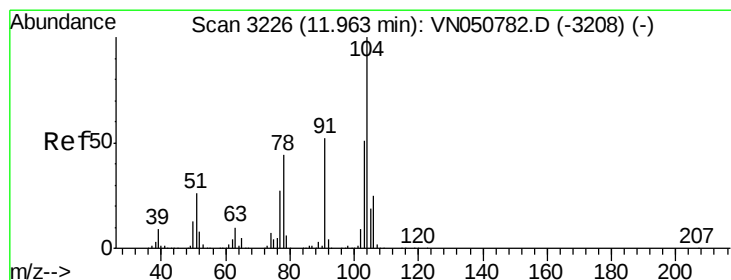
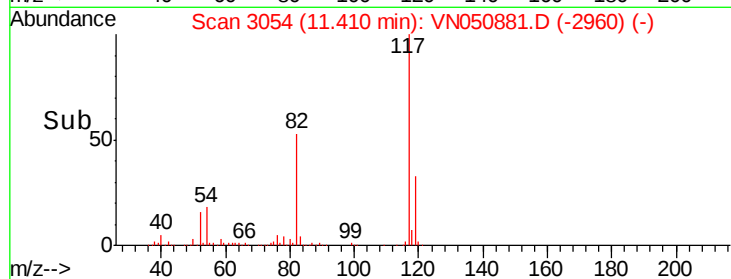
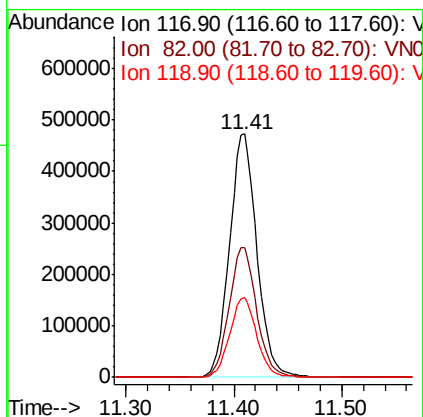
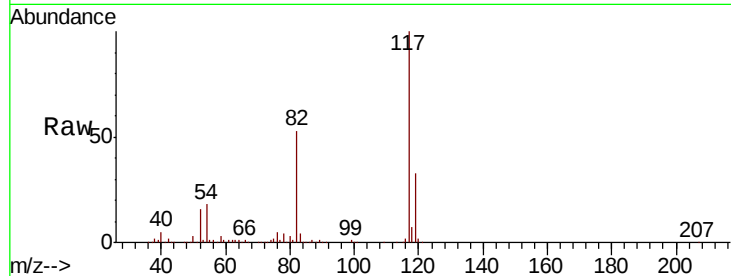




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050881.D
Acq: 24 Aug 2018 16:56

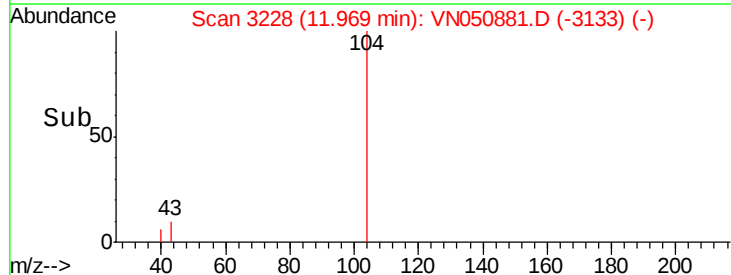
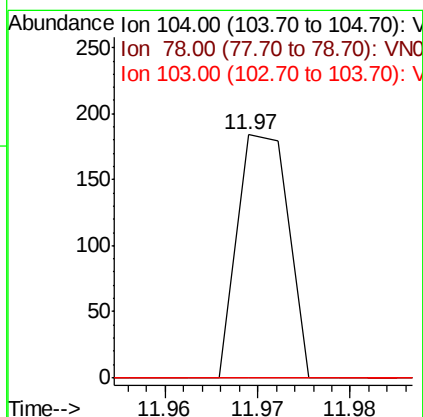
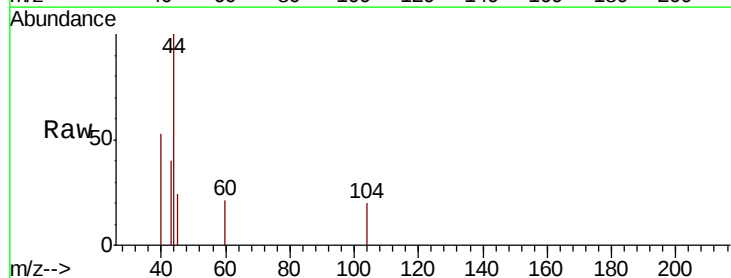
Instrument :
MSVOA_N
ClientSampleId :
PB112339ZHE#07

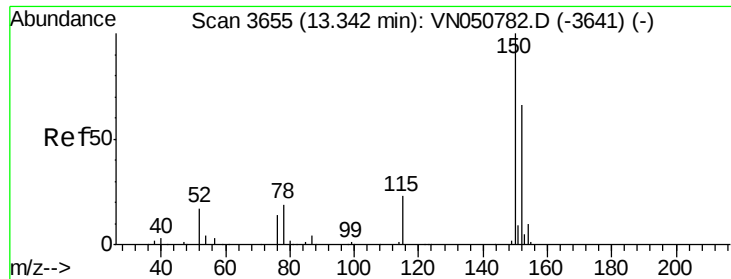
Tot Ion:117 Resp: 835622
Ion Ratio Lower Upper
117 100
82 53.1 42.6 64.0
119 32.9 25.8 38.6



#70
Styrene
Concen: 1.27 ug/l
RT: 11.97 min Scan# 3228
Delta R.T. 0.01 min
Lab File: VN050881.D
Acq: 24 Aug 2018 16:56

Tgt Ion:104 Resp: 70
Ion Ratio Lower Upper
104 100
78 0.0 38.2 57.4#
103 0.0 44.4 66.6#





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

Instrument :

MSVOA_N

ClientSampleId :

PB112339ZHE#07

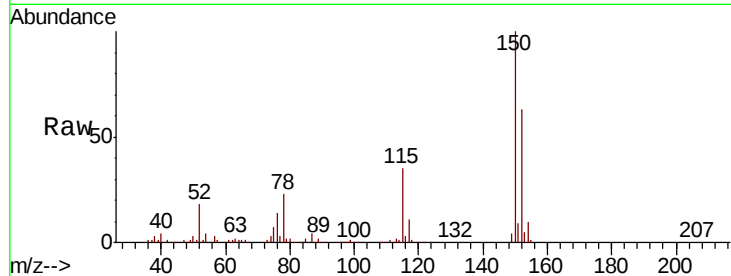
Tot Ion:152 Resp: 250632

Ion Ratio Lower Upper

152 100

115 56.1 27.8 83.4

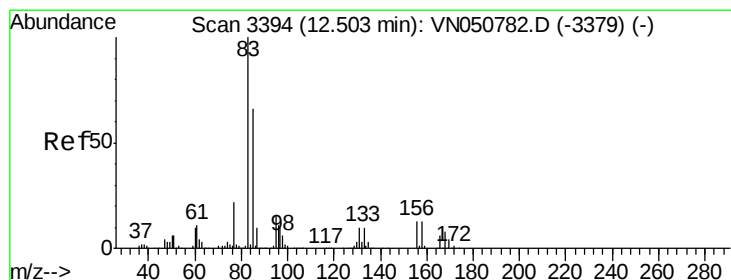
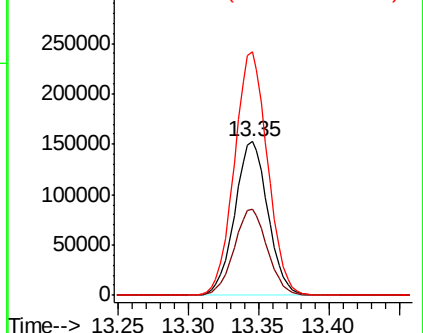
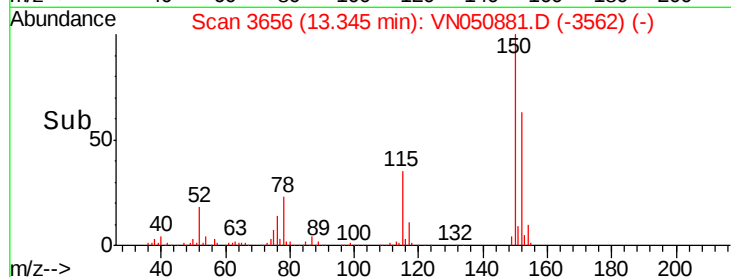
150 159.2 0.0 351.4



Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V



#75

1,1,2,2-Tetrachloroethane

Concen: Below Cal

RT: 12.40 min Scan# 3363

Delta R.T. -0.10 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

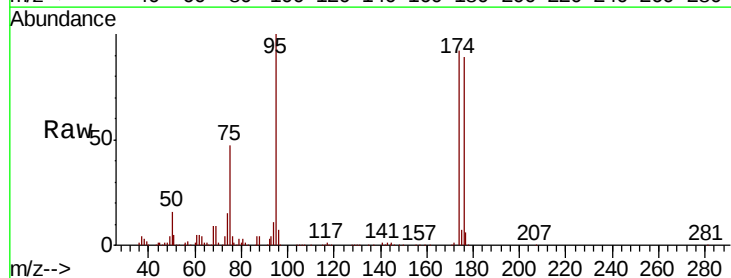
Tgt Ion: 83 Resp: 91

Ion Ratio Lower Upper

83 100

131 459.3 5.3 15.9#

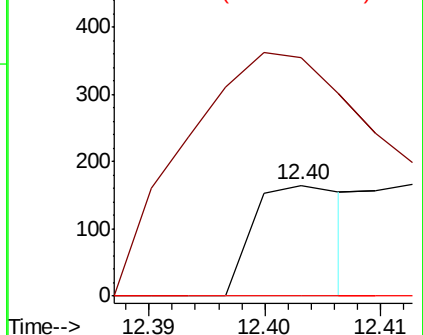
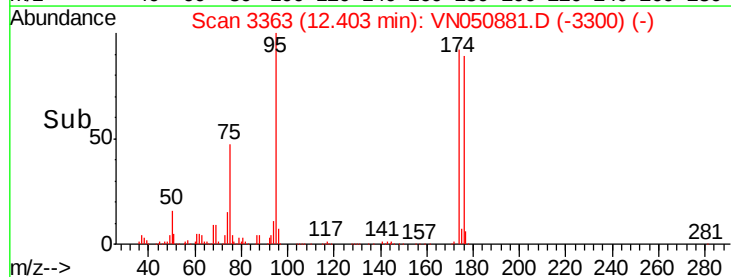
85 0.0 31.9 95.7#

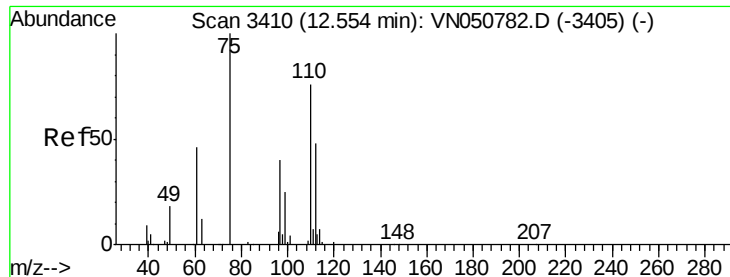


Abundance Ion 82.90 (82.60 to 83.60): VNO

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VNO





#76

1,2,3-Trichloropropane

Concen: 37.19 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

Instrument :

MSVOA_N

ClientSampleId :

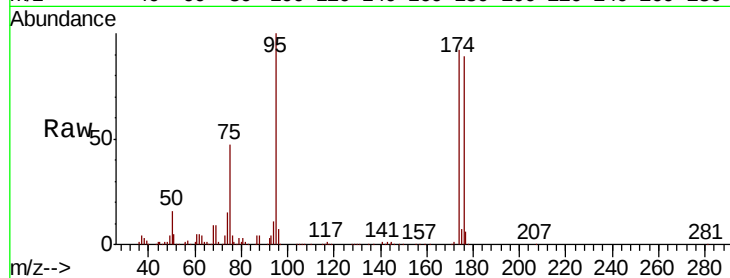
PB112339ZHE#07

Tot Ion: 75 Resp: 163239

Ion Ratio Lower Upper

75 100

77 1.3 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN050782.D (-3405) (-)

Ion 77.00 (76.70 to 77.70): VN050782.D (-3405) (-)

12.40

100000

80000

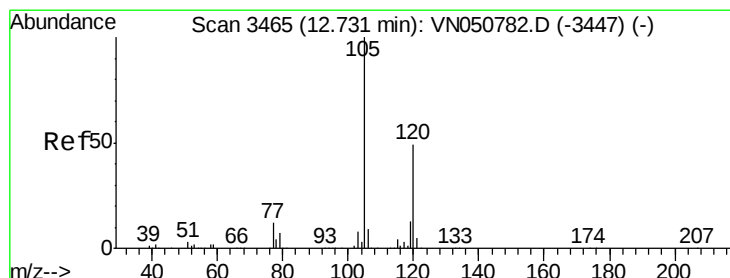
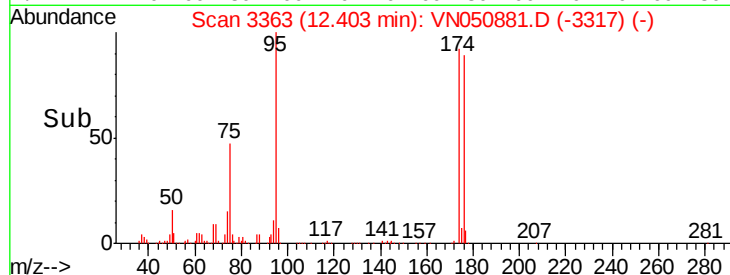
60000

40000

20000

0

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 0.27 ug/l

RT: 12.74 min Scan# 3467

Delta R.T. 0.01 min

Lab File: VN050881.D

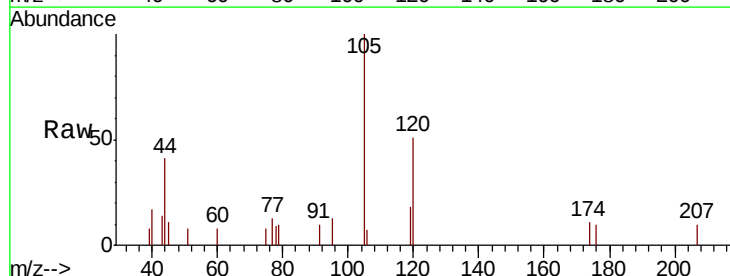
Acq: 24 Aug 2018 16:56

Tgt Ion: 105 Resp: 4590

Ion Ratio Lower Upper

105 100

120 47.7 24.6 74.0



Abundance Ion 105.00 (104.70 to 105.70): VN050782.D (-3447) (-)

Ion 120.00 (119.70 to 120.70): VN050782.D (-3447) (-)

12.74

3000

2500

2000

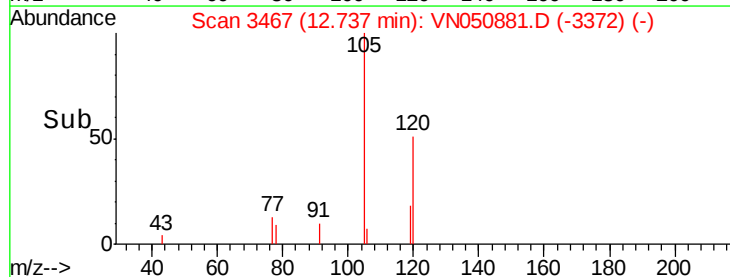
1500

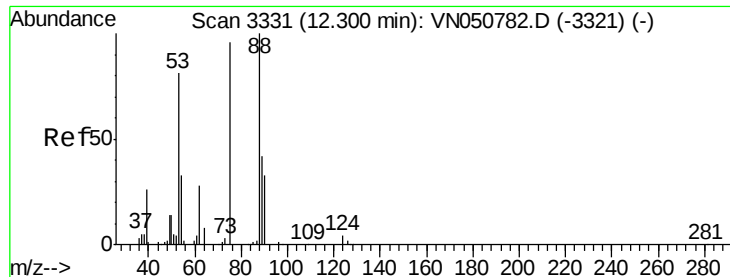
1000

500

0

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 125.71 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.10 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

Instrument :

MSVOA_N

ClientSampleId :

PB112339ZHE#07

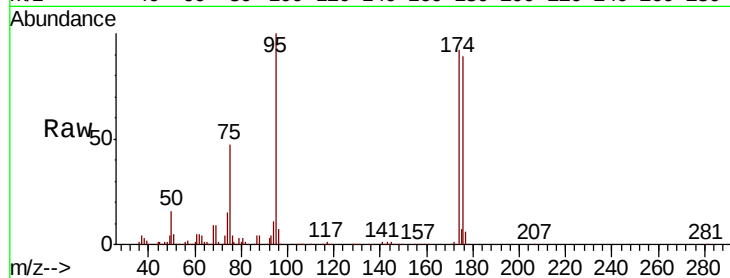
Tot Ion: 75 Resp: 163239

Ion Ratio Lower Upper

75 100

53 0.2 68.9 103.3#

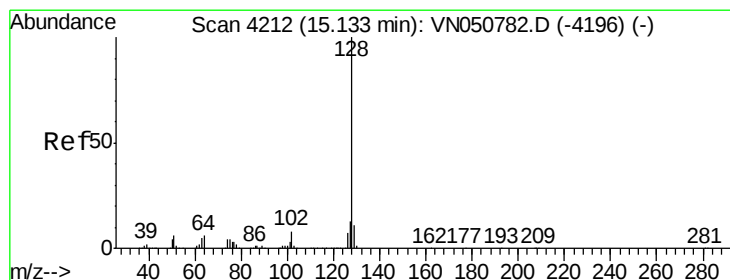
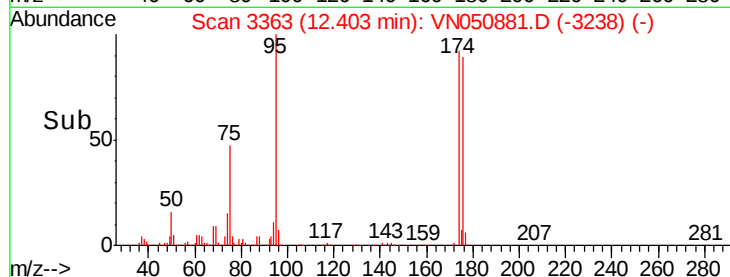
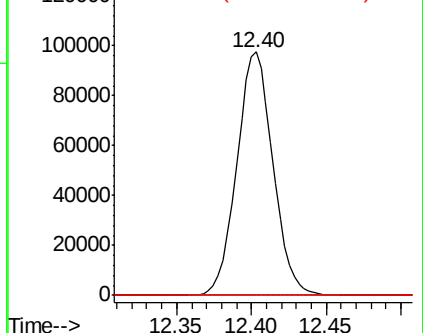
89 0.0 36.1 54.1#



Abundance Ion 74.90 (74.60 to 75.60): VN050881.D (-3363) (-)

Ion 53.00 (52.70 to 53.70): VN050881.D (-3363) (-)

Ion 88.90 (88.60 to 89.60): VN050881.D (-3363) (-)



#95

Naphthalene

Concen: 5.42 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.01 min

Lab File: VN050881.D

Acq: 24 Aug 2018 16:56

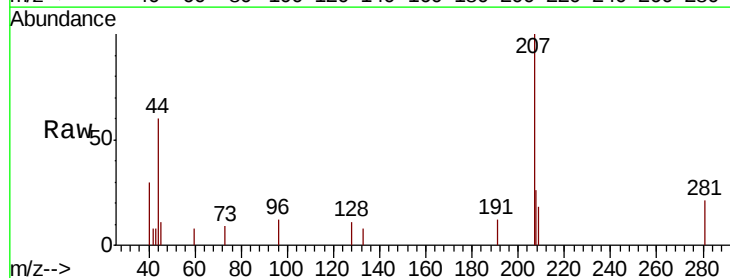
Tgt Ion: 128 Resp: 174

Ion Ratio Lower Upper

128 100

127 0.0 10.5 15.7#

129 0.0 8.7 13.1#



Abundance Ion 128.00 (127.70 to 128.70): VN050881.D (-4214) (-)

Ion 127.00 (126.70 to 127.70): VN050881.D (-4214) (-)

Ion 129.00 (128.70 to 129.70): VN050881.D (-4214) (-)

