

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080718\
 Data File : VN050449.D
 Acq On : 7 Aug 2018 22:27
 Operator : MD\SY
 Sample : PB111813ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 28 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 PB111813ZHE#03

Quant Time: Aug 08 05:31:06 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	850156	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1320229	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1156801	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	505348	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	532074	46.84	ug/l	0.00
Spiked Amount			Recovery	=	93.68%	
35) Dibromofluoromethane	7.59	113	481878	45.49	ug/l	0.00
Spiked Amount			Recovery	=	90.98%	
50) Toluene-d8	10.09	98	1818188	45.65	ug/l	0.00
Spiked Amount			Recovery	=	91.30%	
62) 4-Bromofluorobenzene	12.40	95	581095	42.81	ug/l	0.00
Spiked Amount			Recovery	=	85.62%	

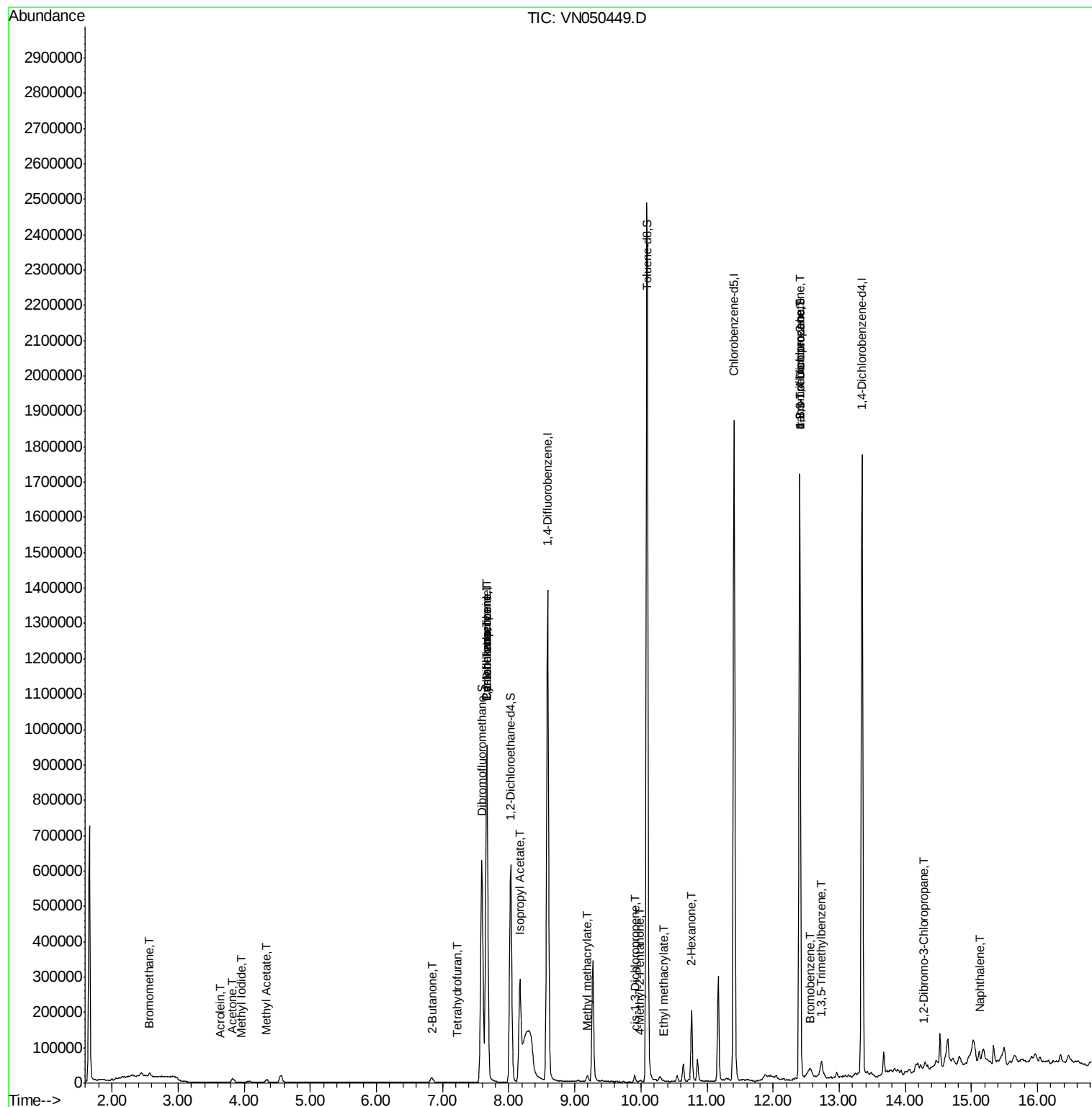
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.06	50	3547	Below Cal		95
5) Bromomethane	2.57	94	6819	1.32	ug/l	94
10) Methyl Iodide	3.95	142	1173	0.27	ug/l #	72
13) Acrolein	3.62	56	30	15.05	ug/l #	15
16) Acetone	3.82	43	21718	6.06	ug/l	98
18) Methyl Acetate	4.34	43	15160	1.54	ug/l	99
25) 2-Butanone	6.85	43	5544	0.98	ug/l	93
29) Tetrahydrofuran	7.23	42	1605	0.53	ug/l #	62
31) Cyclohexane	7.67	56	14699	0.28	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	55867	3.85	ug/l #	48
38) Carbon Tetrachloride	7.67	117	74548	4.93	ug/l #	16
43) Isopropyl Acetate	8.17	43	388973	21.57	ug/l	96
48) Methyl methacrylate	9.18	41	9638	1.07	ug/l #	23
51) 4-Methyl-2-Pentanone	9.99	43	3066	0.24	ug/l	99
54) cis-1,3-Dichloropropene	9.91	75	3577	0.21	ug/l #	60
56) Ethyl methacrylate	10.35	69	136	1.72	ug/l #	26
59) 2-Hexanone	10.77	43	28103	3.10	ug/l #	55
76) 1,2,3-Trichloropropane	12.40	75	277864	30.38	ug/l #	100
77) Bromobenzene	12.56	156	27961	2.75	ug/l #	1
80) 1,3,5-Trimethylbenzene	12.73	105	9587	0.31	ug/l	97
81) trans-1,4-Dichloro-2-buten	12.40	75	277864	106.73	ug/l #	13
92) 1,2-Dibromo-3-Chloropropan	14.26	75	824	0.44	ug/l #	20
95) Naphthalene	15.14	128	1787	3.69	ug/l #	94

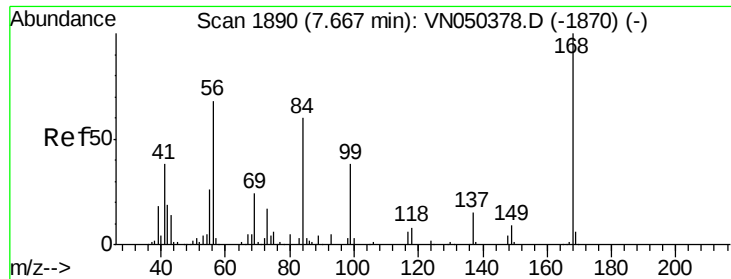
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA N\DATA\VN080718\
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Quant Time: Aug 08 05:31:06 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 05:22:15 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: VN050449.D

Acq: 7 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

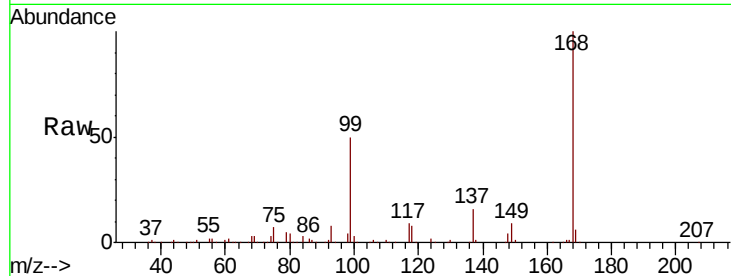
PB111813ZHE#03

Tot Ion:168 Resp: 850156

Ion Ratio Lower Upper

168 100

99 50.2 40.0 60.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN

7.67

400000

300000

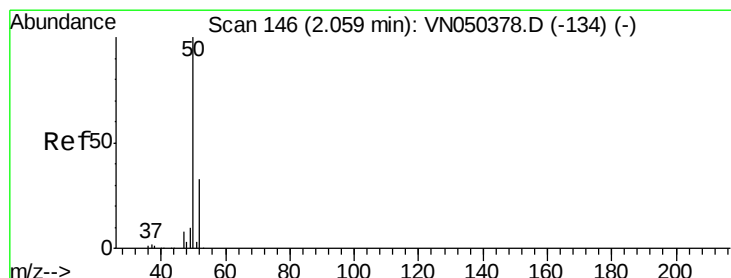
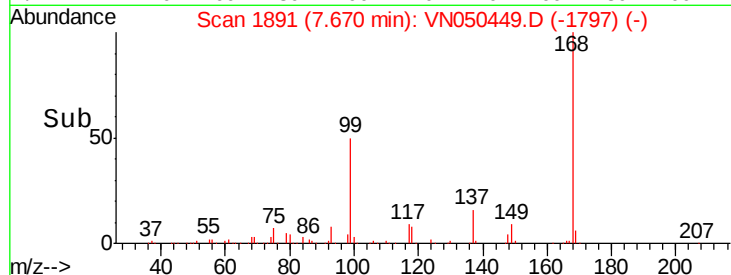
200000

100000

0

7.60 7.70 7.80

Time-->



#3

Chloromethane

Concen: Below Cal

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050449.D

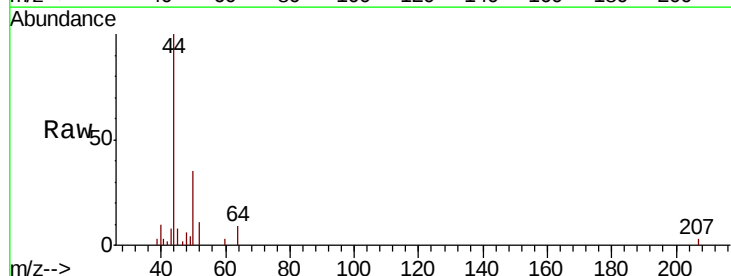
Acq: 7 Aug 2018 22:27

Tgt Ion: 50 Resp: 3547

Ion Ratio Lower Upper

50 100

52 29.9 25.9 38.9



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN

2.06

3000

2500

2000

1500

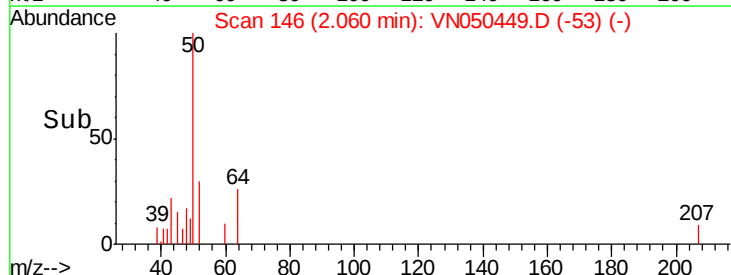
1000

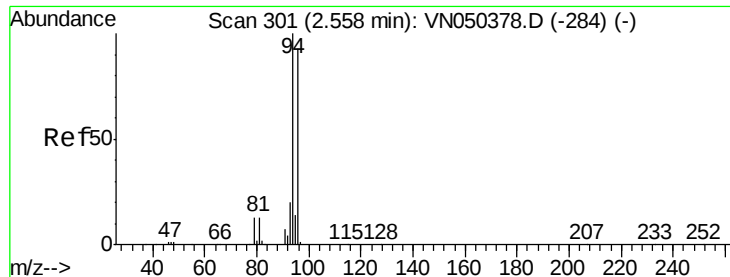
500

0

2.05 2.10

Time-->





#5

Bromomethane

Concen: 1.32 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.01 min

Lab File: VN050449.D

Acq: 7 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

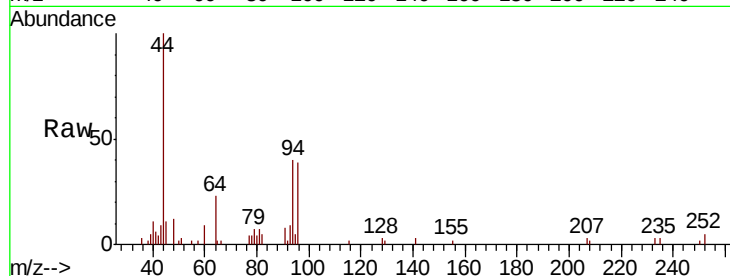
PB111813ZHE#03

Tot Ion: 94 Resp: 6819

Ion Ratio Lower Upper

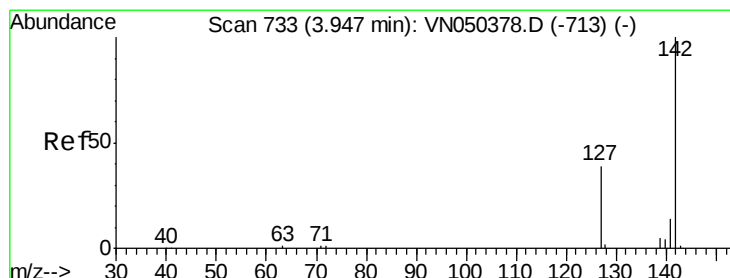
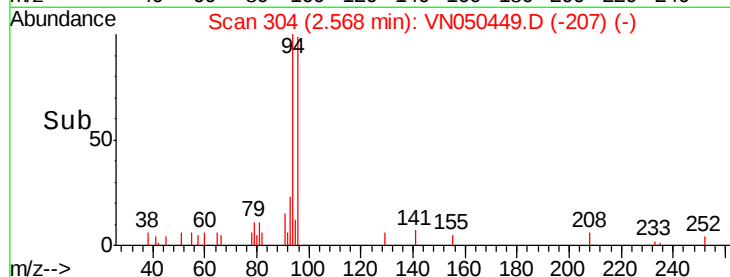
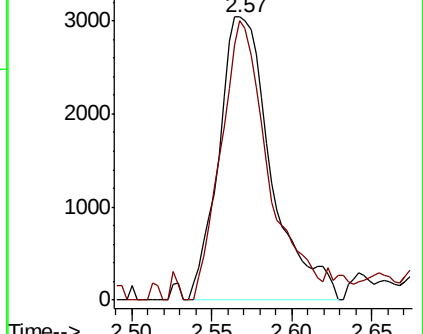
94 100

96 98.8 74.6 112.0



Abundance Ion 93.90 (93.60 to 94.60): VN050378.D (-284) (-)

Ion 95.90 (95.60 to 96.60): VN050378.D (-284) (-)



#10

Methyl Iodide

Concen: 0.27 ug/l

RT: 3.95 min Scan# 733

Delta R.T. 0.00 min

Lab File: VN050449.D

Acq: 7 Aug 2018 22:27

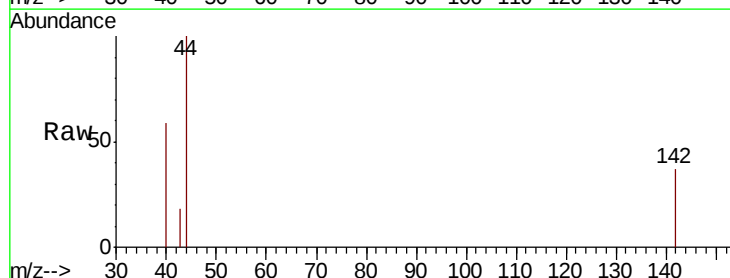
Tgt Ion: 142 Resp: 1173

Ion Ratio Lower Upper

142 100

127 25.3 33.4 50.2#

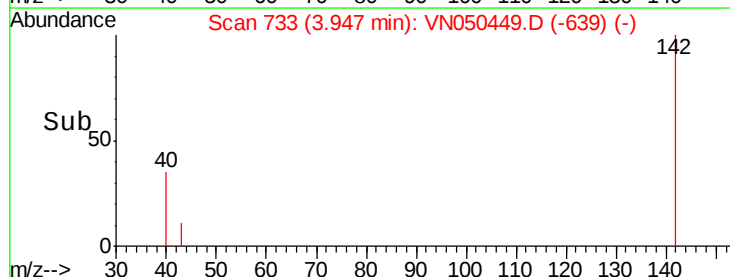
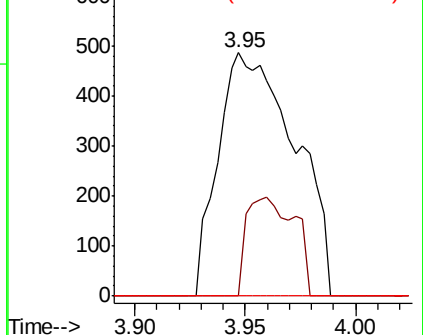
141 0.0 11.6 17.4#

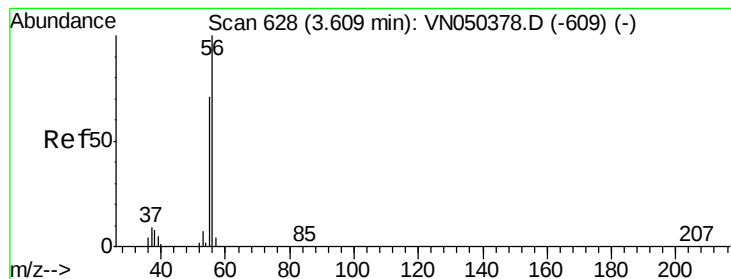


Abundance Ion 141.80 (141.50 to 142.50): VN050378.D (-713) (-)

Ion 126.80 (126.50 to 127.50): VN050378.D (-713) (-)

Ion 140.80 (140.50 to 141.50): VN050378.D (-713) (-)





#13

Acrolein

Concen: 15.05 ug/l

RT: 3.62 min Scan# 632

Delta R.T. 0.01 min

Lab File: VN050449.D

Acq: 7 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

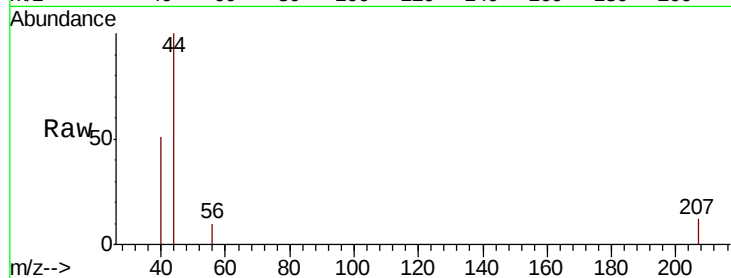
PB111813ZHE#03

Tot Ion: 56 Resp: 30

Ion Ratio Lower Upper

56 100

55 0.0 55.8 83.6#



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0

3.62

150

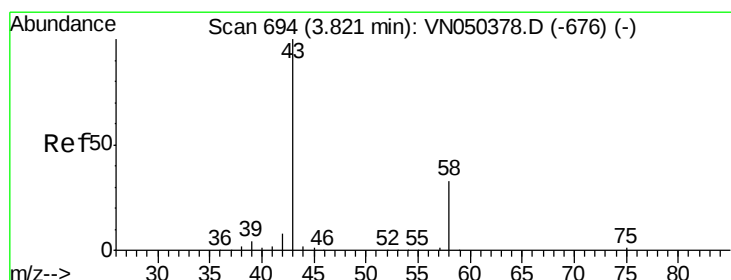
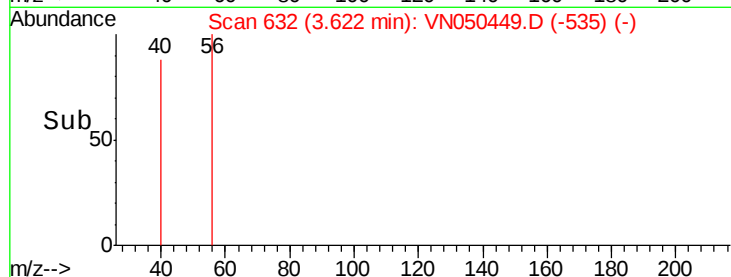
100

50

0

3.61 3.62 3.63 3.63

Time-->



#16

Acetone

Concen: 6.06 ug/l

RT: 3.82 min Scan# 695

Delta R.T. 0.00 min

Lab File: VN050449.D

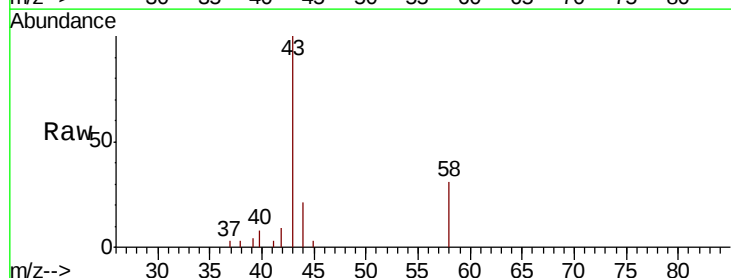
Acq: 7 Aug 2018 22:27

Tgt Ion: 43 Resp: 21718

Ion Ratio Lower Upper

43 100

58 31.3 25.8 38.8



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0

3.82

8000

6000

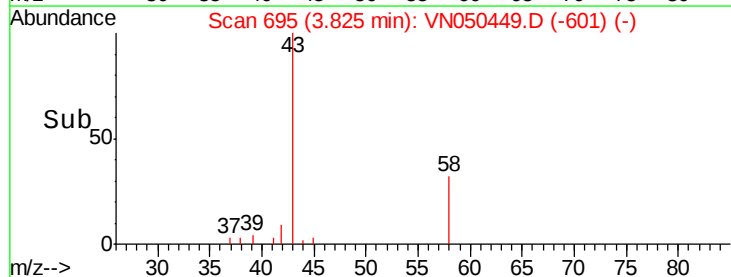
4000

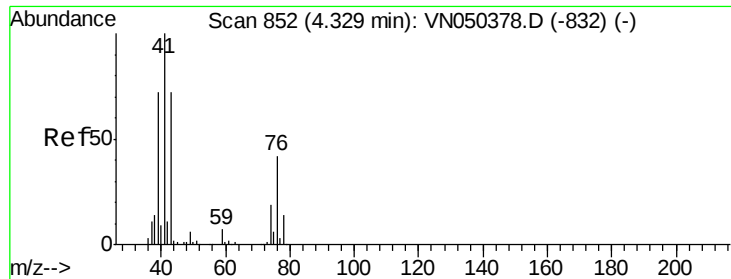
2000

0

3.80 3.82 3.90

Time-->

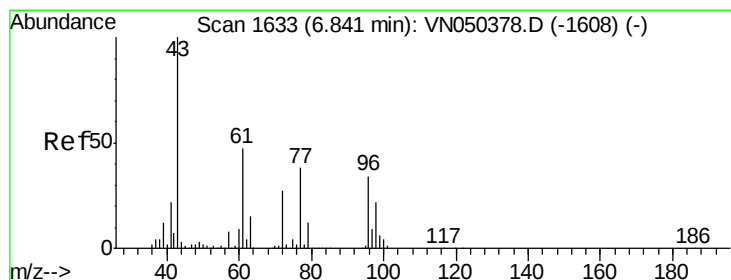
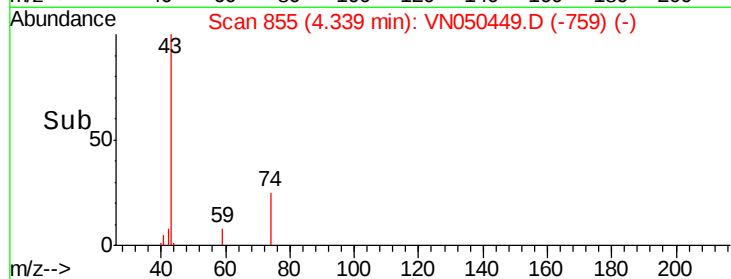
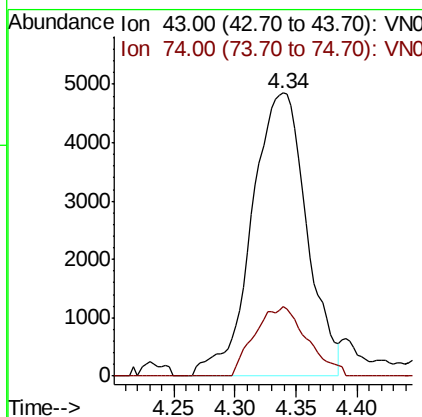
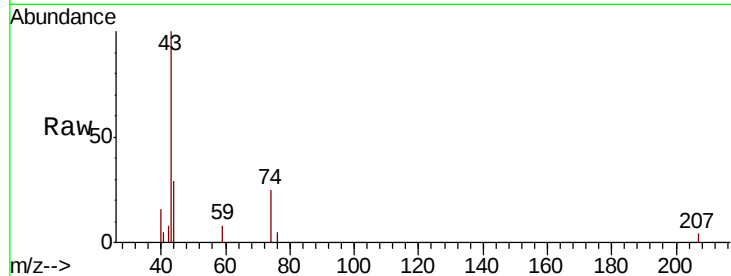




#18
Methvl Acetate
Concen: 1.54 ug/l
RT: 4.34 min Scan# 855
Delta R.T. 0.01 min
Lab File: VN050449.D
Acq: 7 Aug 2018 22:27

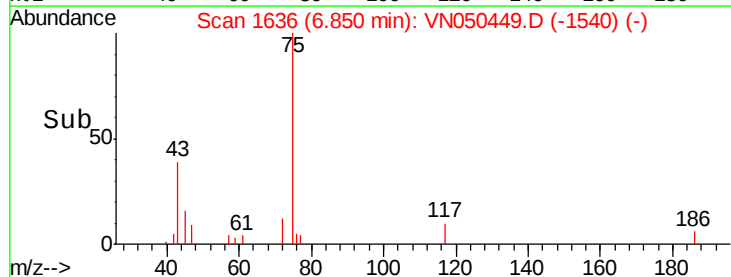
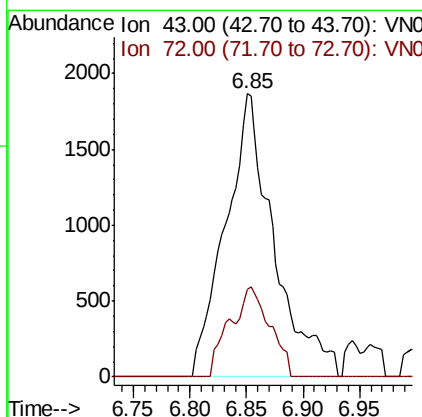
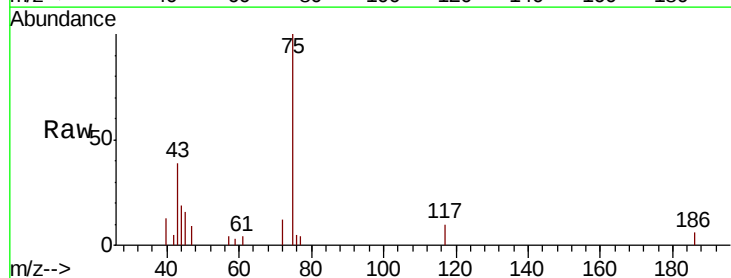
Instrument :
MSVOA_N
ClientSampleId :
PB111813ZHE#03

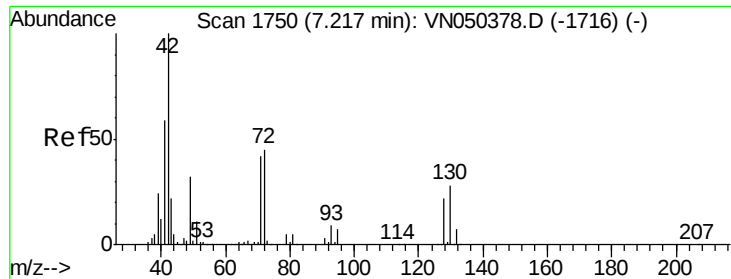
Tot Ion: 43 Resp: 15160
Ion Ratio Lower Upper
43 100
74 23.4 19.2 28.8



#25
2-Butanone
Concen: 0.98 ug/l
RT: 6.85 min Scan# 1636
Delta R.T. 0.01 min
Lab File: VN050449.D
Acq: 7 Aug 2018 22:27

Tgt Ion: 43 Resp: 5544
Ion Ratio Lower Upper
43 100
72 30.7 21.5 32.3





#29

Tetrahydrofuran

Concen: 0.53 ug/l

RT: 7.23 min Scan# 1755

Delta R.T. 0.02 min

Lab File: VN050449.D

Acq: 7 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

PB111813ZHE#03

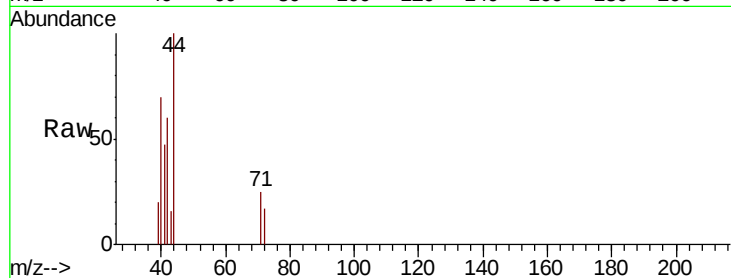
Tot Ion: 42 Resp: 1605

Ion Ratio Lower Upper

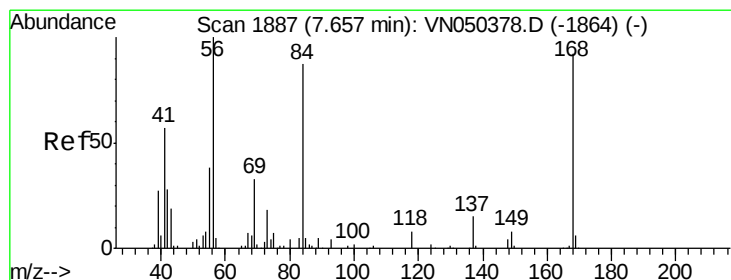
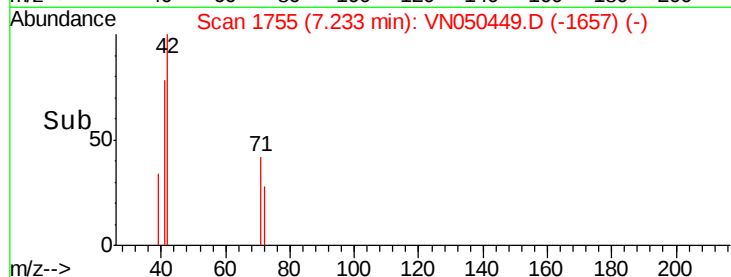
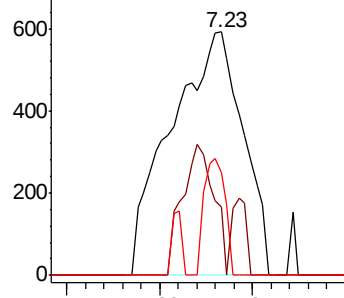
42 100

72 23.8 35.9 53.9#

71 14.2 33.7 50.5#



Abundance Ion 42.00 (41.70 to 42.70): VNO
Ion 72.00 (71.70 to 72.70): VNO
Ion 71.00 (70.70 to 71.70): VNO



#31

Cyclohexane

Concen: 0.28 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.01 min

Lab File: VN050449.D

Acq: 7 Aug 2018 22:27

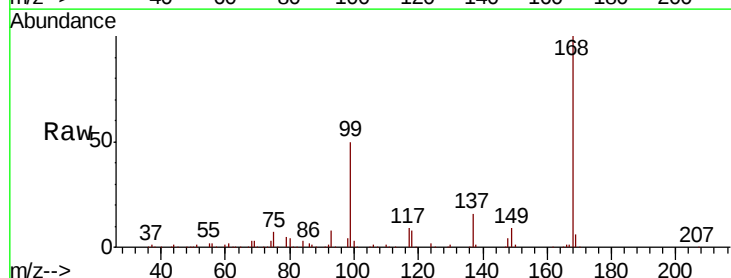
Tgt Ion: 56 Resp: 14699

Ion Ratio Lower Upper

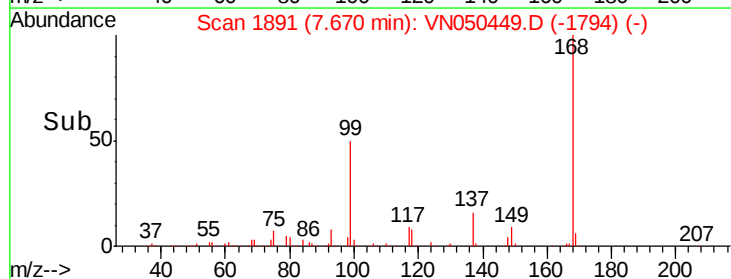
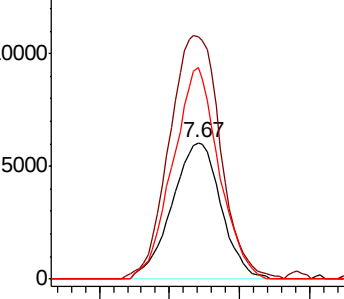
56 100

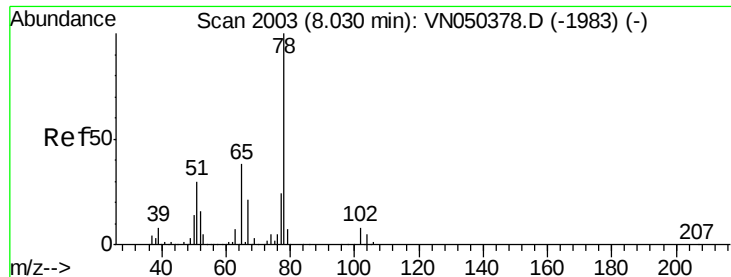
69 175.4 26.2 39.4#

84 155.3 67.4 101.0#



Abundance Ion 56.00 (55.70 to 56.70): VNO
Ion 69.00 (68.70 to 69.70): VNO
Ion 84.00 (83.70 to 84.70): VNO

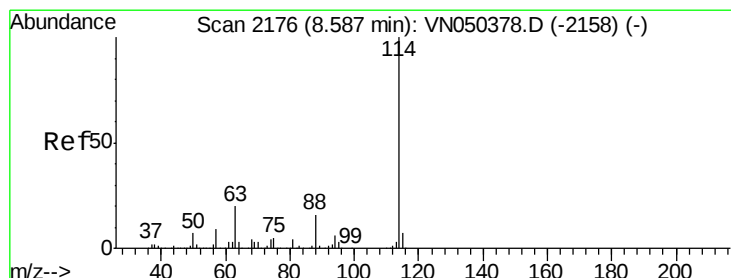
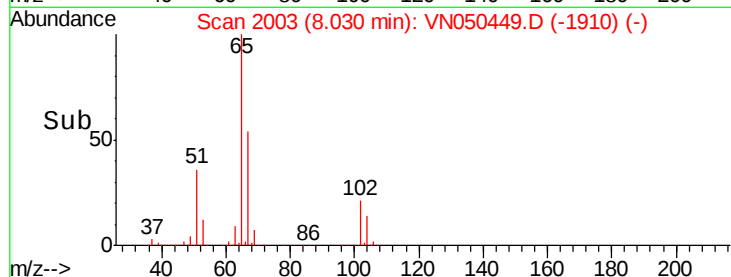
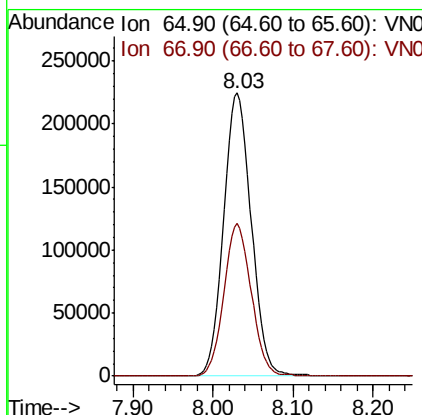
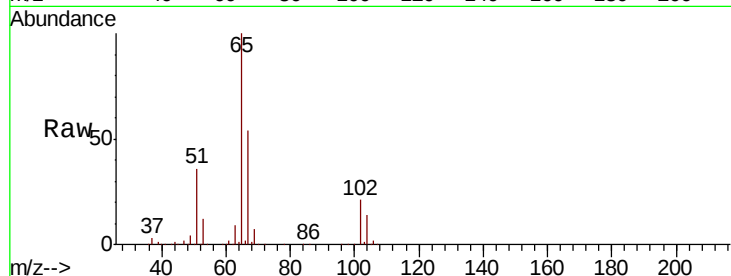




#33
 1,2-Dichloroethane-d4
 Concen: 46.84 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN050449.D
 Acq: 7 Aug 2018 22:27

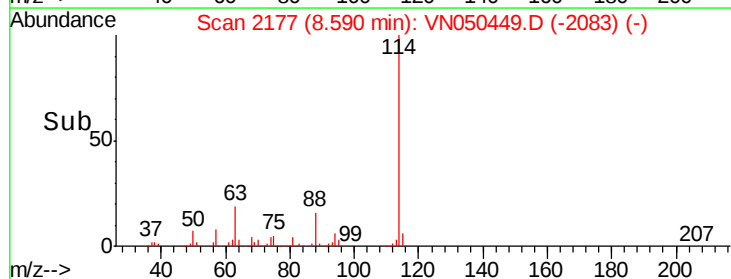
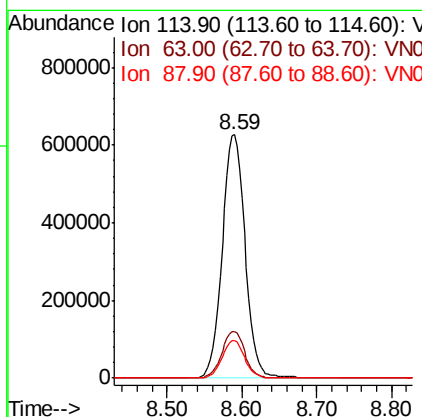
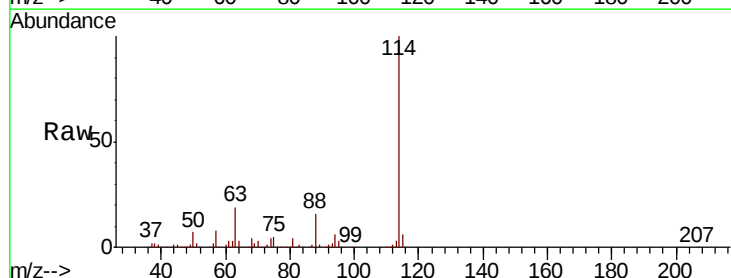
Instrument :
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 PB111813ZHE#03

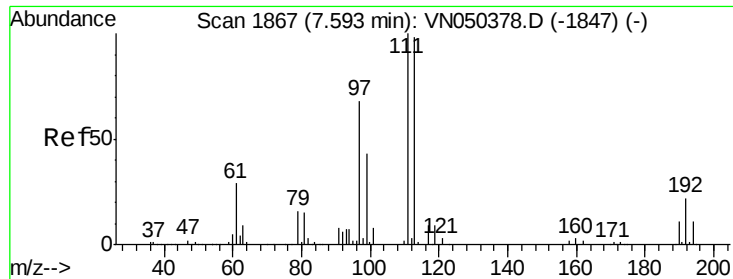
Tot Ion: 65 Resp: 532074
 Ion Ratio Lower Upper
 65 100
 67 53.3 0.0 108.4



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN050449.D
 Acq: 7 Aug 2018 22:27

Tgt Ion: 114 Resp: 1320229
 Ion Ratio Lower Upper
 114 100
 63 19.1 0.0 40.0
 88 15.6 0.0 31.2

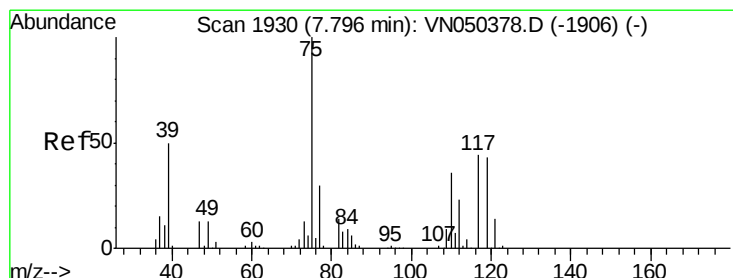
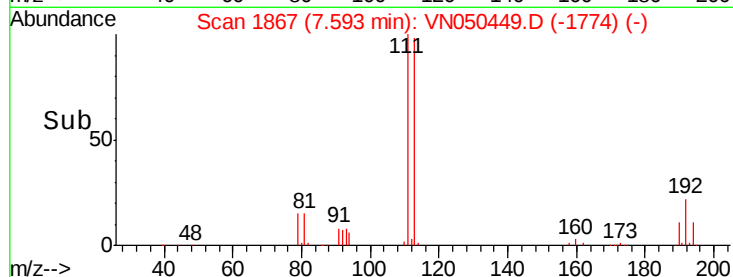
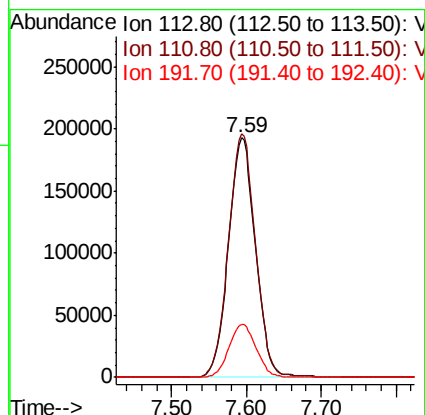
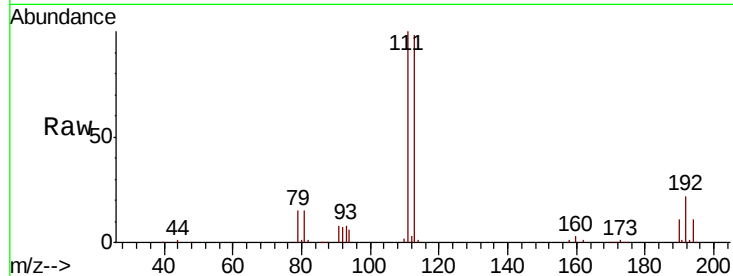




#35
 Dibromofluoromethane
 Concen: 45.49 ug/l
 RT: 7.59 min Scan# 1867
 Delta R.T. 0.00 min
 Lab File: VN050449.D
 Acq: 7 Aug 2018 22:27

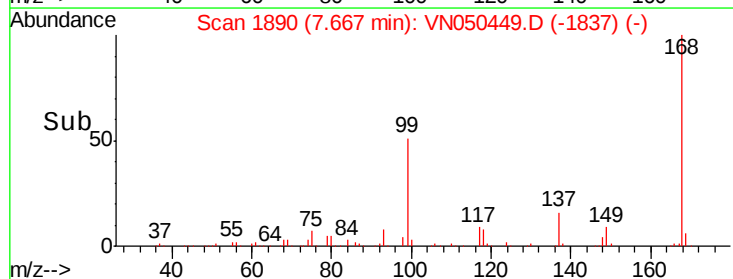
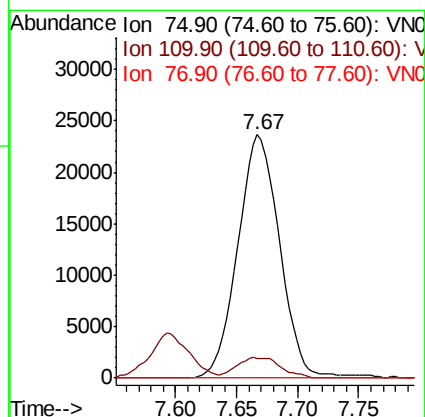
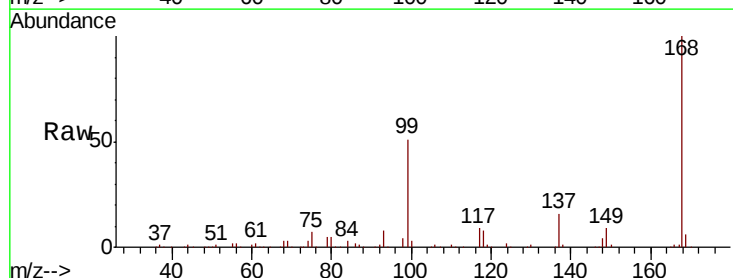
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111813ZHE#03

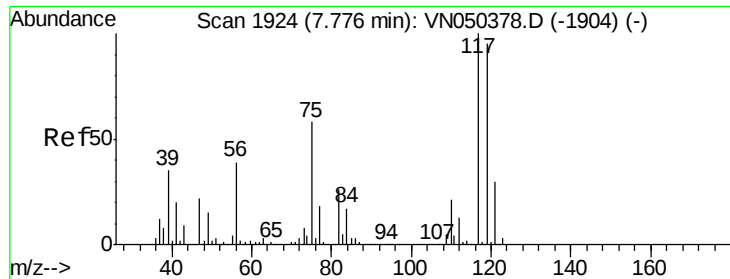
Tot Ion:113 Resp: 481878
 Ion Ratio Lower Upper
 113 100
 111 102.4 80.7 121.1
 192 22.4 17.8 26.6



#36
 1,1-Dichloropropene
 Concen: 3.85 ug/l
 RT: 7.67 min Scan# 1890
 Delta R.T. -0.13 min
 Lab File: VN050449.D
 Acq: 7 Aug 2018 22:27

Tgt Ion: 75 Resp: 55867
 Ion Ratio Lower Upper
 75 100
 110 8.8 18.4 55.2#
 77 0.0 25.3 37.9#





#38

Carbon Tetrachloride

Concen: 4.93 ug/l

RT: 7.67 min Scan# 1890

Delta R.T. -0.11 min

Lab File: VN050449.D

Acq: 7 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

PB111813ZHE#03

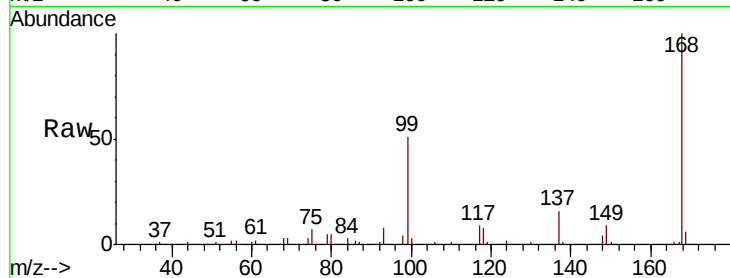
Tot Ion:117 Resp: 74548

Ion Ratio Lower Upper

117 100

119 5.9 77.4 116.0#

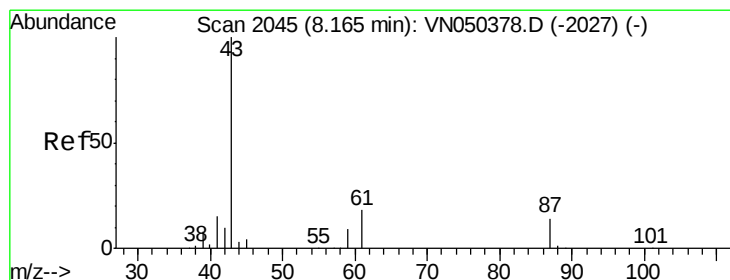
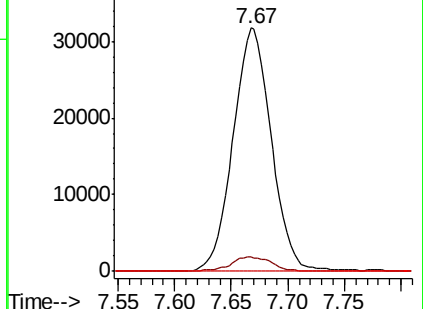
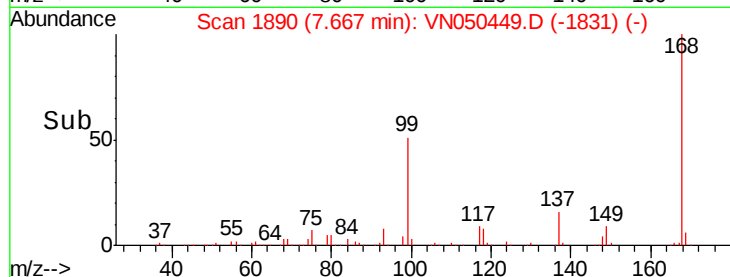
121 0.0 23.9 35.9#



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: 21.57 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. 0.00 min

Lab File: VN050449.D

Acq: 7 Aug 2018 22:27

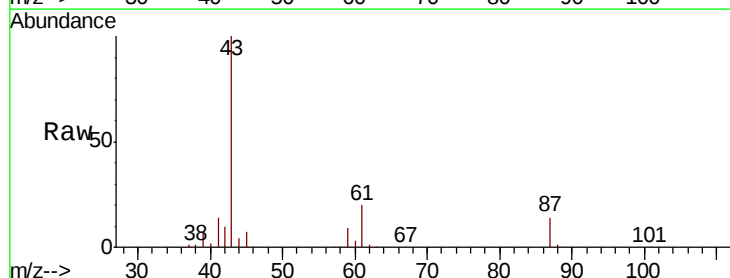
Tgt Ion: 43 Resp: 388973

Ion Ratio Lower Upper

43 100

61 17.6 15.8 23.6

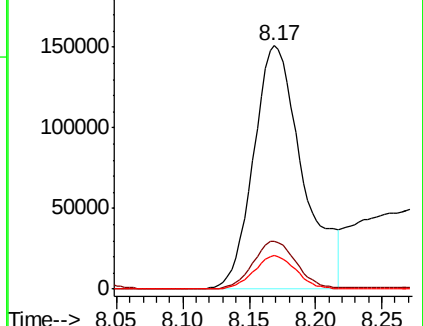
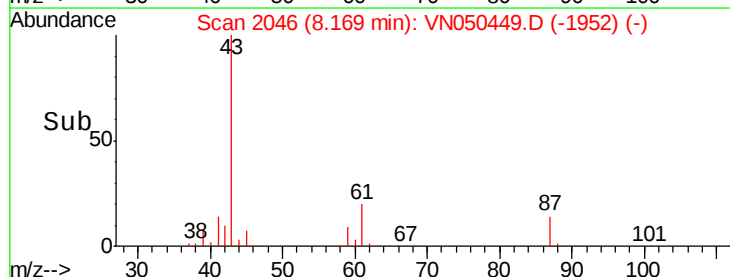
87 11.9 10.3 15.5

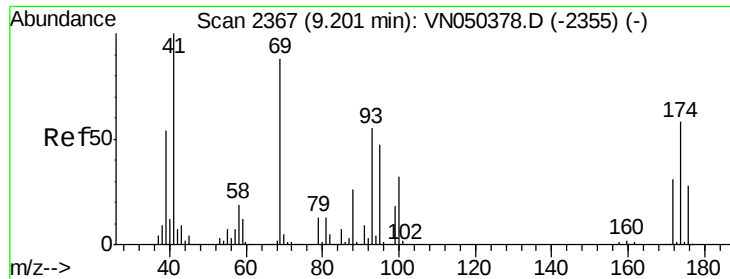


Abundance Ion 43.00 (42.70 to 43.70): V

Ion 61.00 (60.70 to 61.70): V

Ion 87.00 (86.70 to 87.70): V

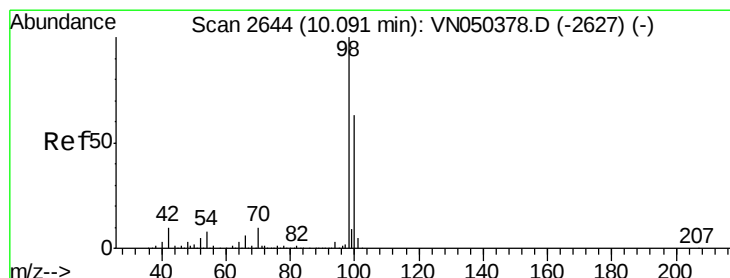
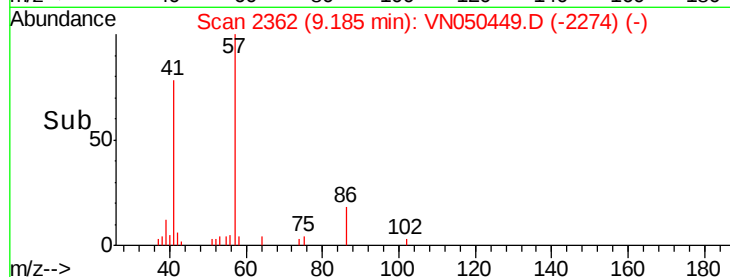
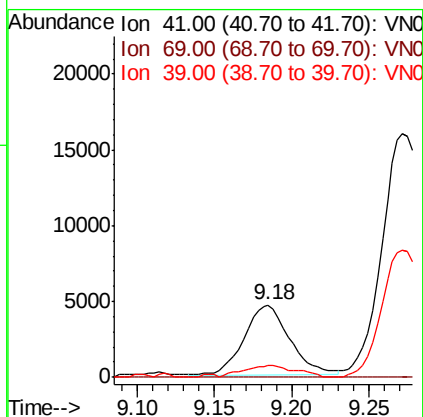
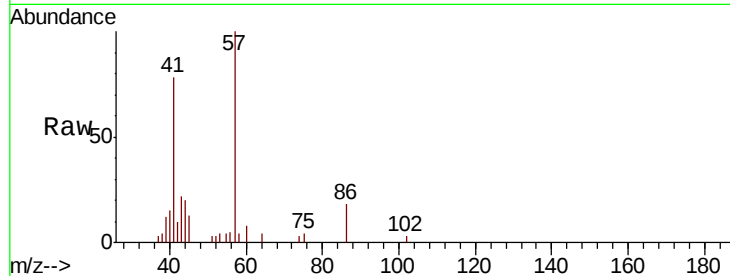




#48
Methyl methacrylate
Concen: 1.07 ug/l
RT: 9.18 min Scan# 2362
Delta R.T. -0.02 min
Lab File: VN050449.D
Acq: 7 Aug 2018 22:27

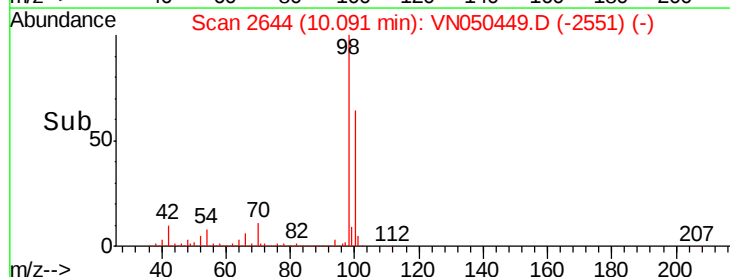
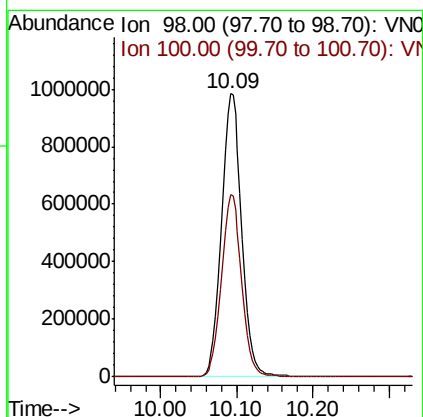
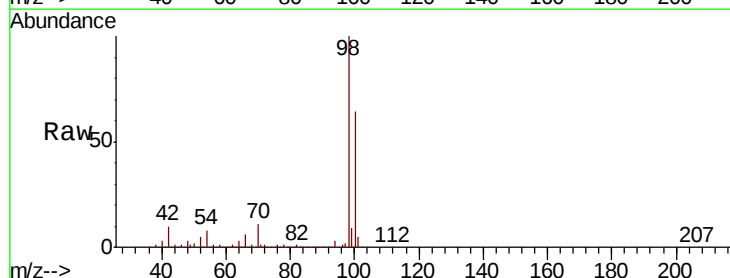
Instrument :
MSVOA_N
ClientSampleId :
PB111813ZHE#03

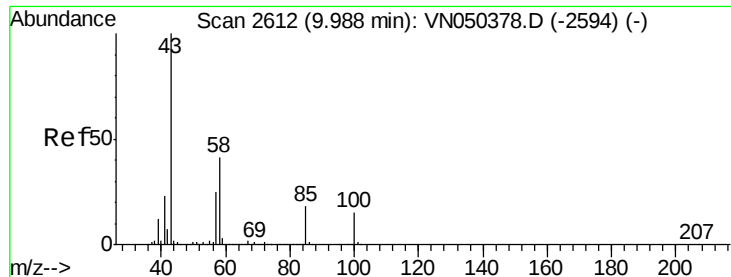
Tot Ion: 41 Resp: 9638
Ion Ratio Lower Upper
41 100
69 0.0 70.6 105.8#
39 19.4 43.9 65.9#



#50
Toluene-d8
Concen: 45.65 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050449.D
Acq: 7 Aug 2018 22:27

Tgt Ion: 98 Resp: 1818188
Ion Ratio Lower Upper
98 100
100 64.3 50.7 76.1

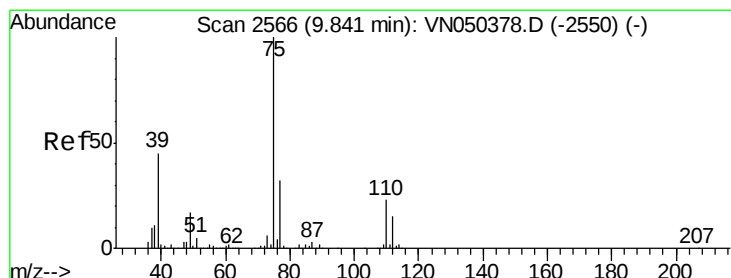
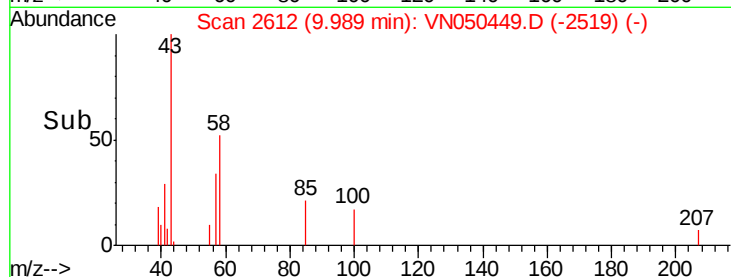
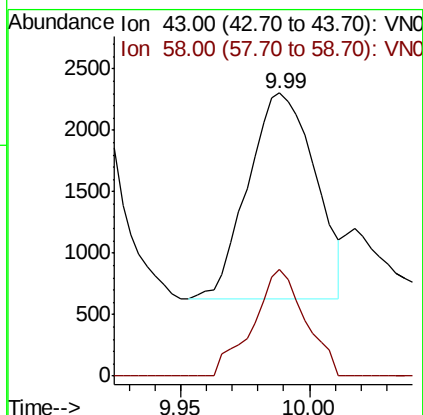
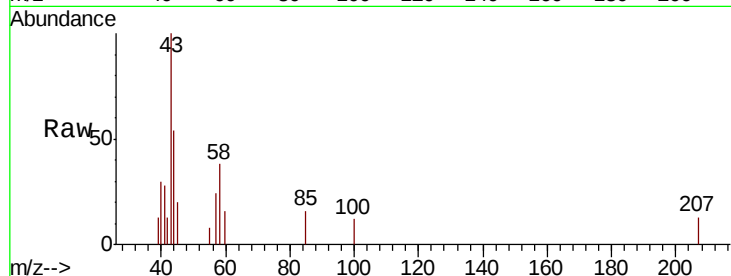




#51
 4-Methyl-2-Pentanone
 Concen: 0.24 ug/l
 RT: 9.99 min Scan# 2612
 Delta R.T. 0.00 min
 Lab File: VN050449.D
 Acq: 7 Aug 2018 22:27

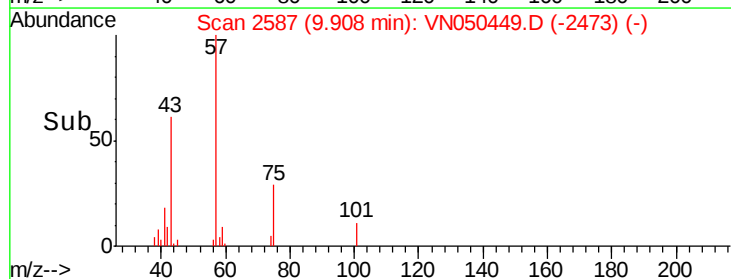
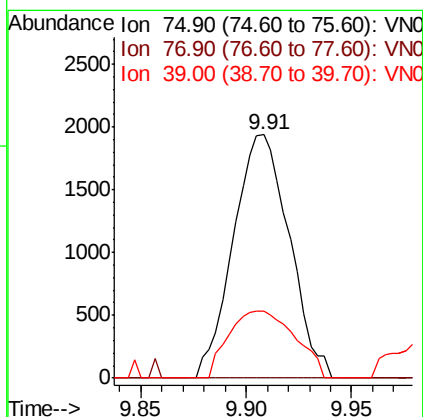
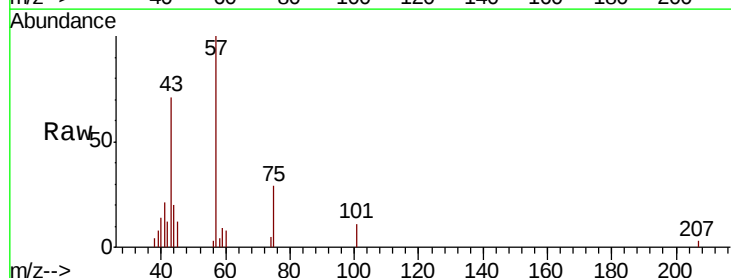
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111813ZHE#03

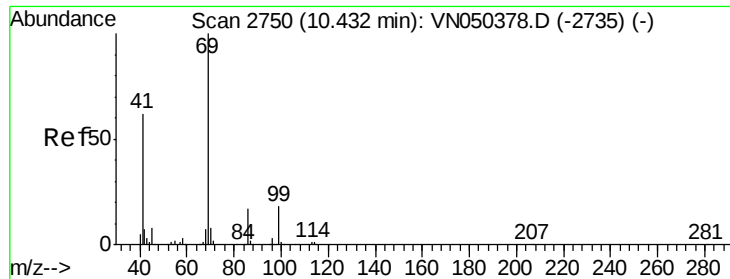
Tot Ion: 43 Resp: 3066
 Ion Ratio Lower Upper
 43 100
 58 40.2 31.9 47.9



#54
 cis-1,3-Dichloropropene
 Concen: 0.21 ug/l
 RT: 9.91 min Scan# 2587
 Delta R.T. 0.07 min
 Lab File: VN050449.D
 Acq: 7 Aug 2018 22:27

Tgt Ion: 75 Resp: 3577
 Ion Ratio Lower Upper
 75 100
 77 0.0 25.5 38.3#
 39 27.4 36.6 55.0#





#56

Ethyl methacrylate

Concen: 1.72 ug/l

RT: 10.35 min Scan# 2724

Delta R.T. -0.08 min

Lab File: VN050449.D

Acq: 7 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

PB111813ZHE#03

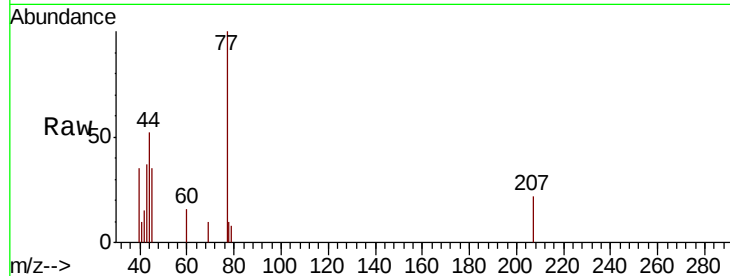
Tot Ion: 69 Resp: 136

Ion Ratio Lower Upper

69 100

41 0.0 51.0 76.4#

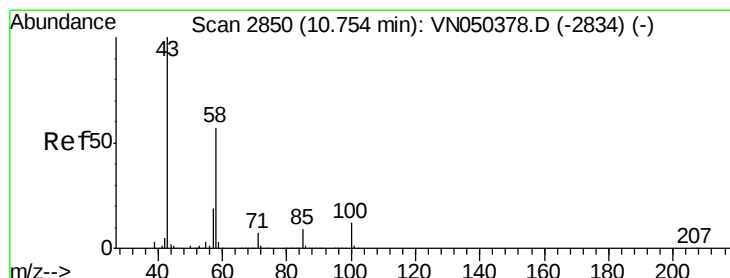
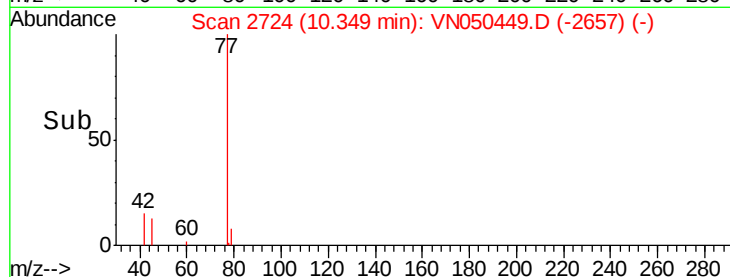
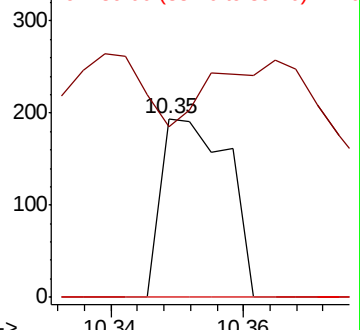
39 0.0 26.6 40.0#



Abundance Ion 69.00 (68.70 to 69.70): VN0

Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0



#59

2-Hexanone

Concen: 3.10 ug/l

RT: 10.77 min Scan# 2854

Delta R.T. 0.01 min

Lab File: VN050449.D

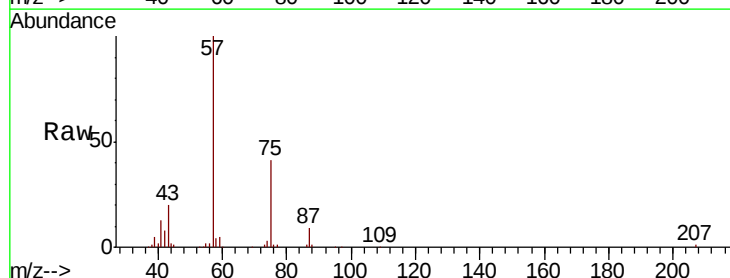
Acq: 7 Aug 2018 22:27

Tgt Ion: 43 Resp: 28103

Ion Ratio Lower Upper

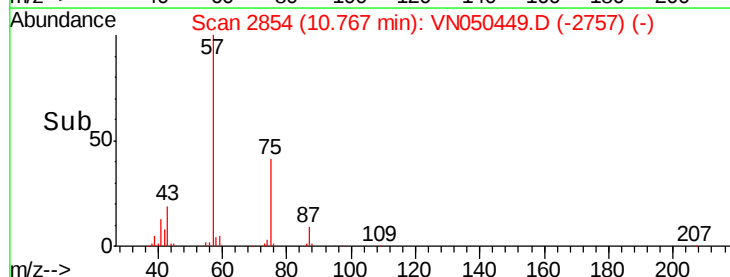
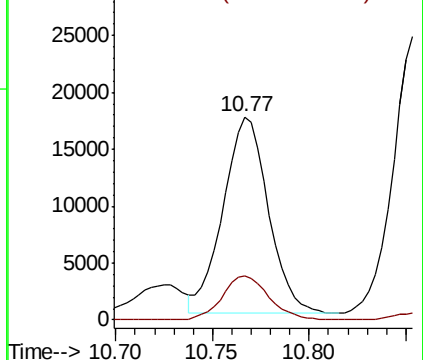
43 100

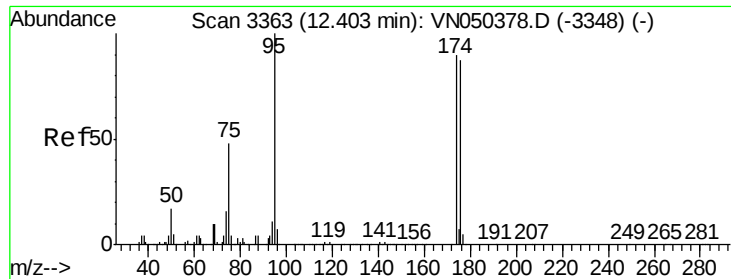
58 22.9 27.6 82.7#



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0





#62

4-Bromofluorobenzene

Concen: 42.81 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050449.D

Acq: 7 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

PB111813ZHE#03

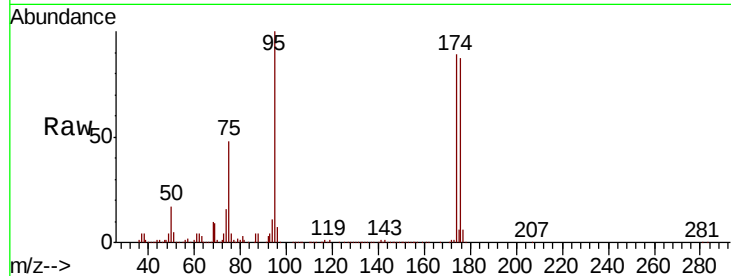
Tot Ion: 95 Resp: 581095

Ion Ratio Lower Upper

95 100

174 89.0 0.0 178.2

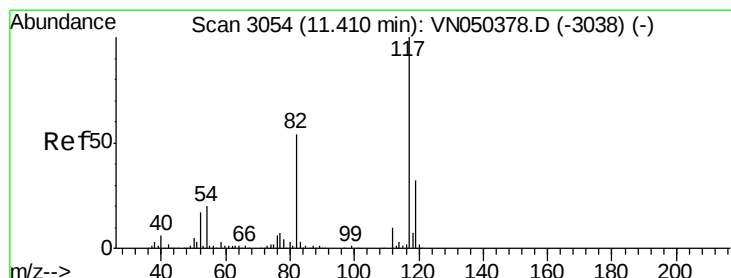
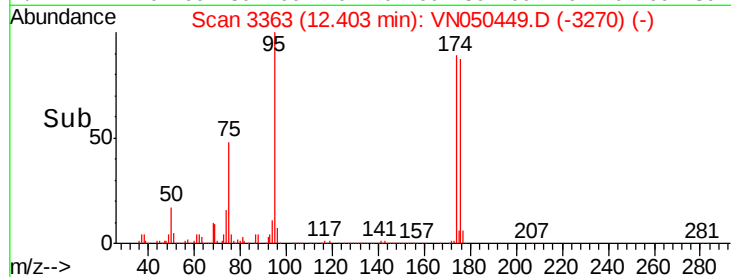
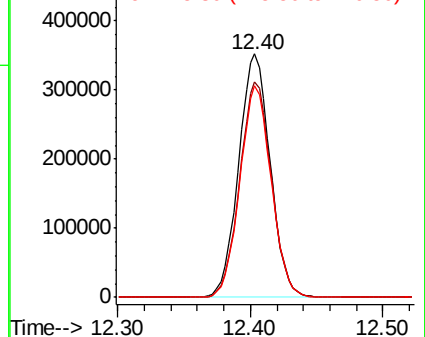
176 86.3 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VN050378.D (-3348) (-)

Ion 173.80 (173.50 to 174.50): VN050378.D (-3348) (-)

Ion 175.80 (175.50 to 176.50): VN050378.D (-3348) (-)



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.41 min Scan# 3054

Delta R.T. 0.00 min

Lab File: VN050449.D

Acq: 7 Aug 2018 22:27

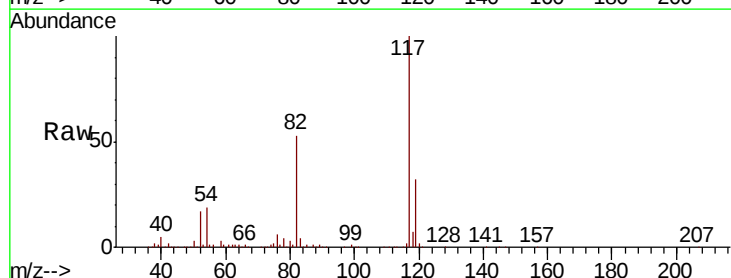
Tgt Ion: 117 Resp: 1156801

Ion Ratio Lower Upper

117 100

82 52.9 43.7 65.5

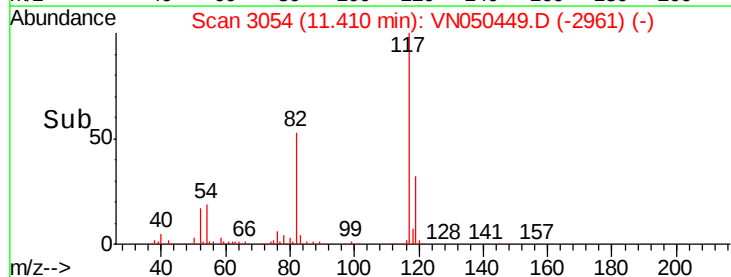
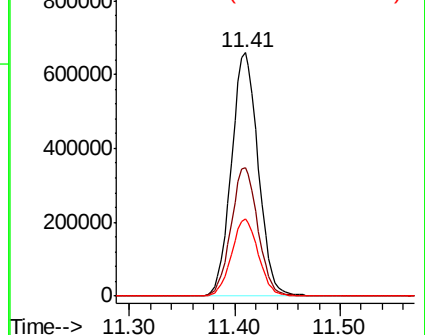
119 31.7 26.1 39.1

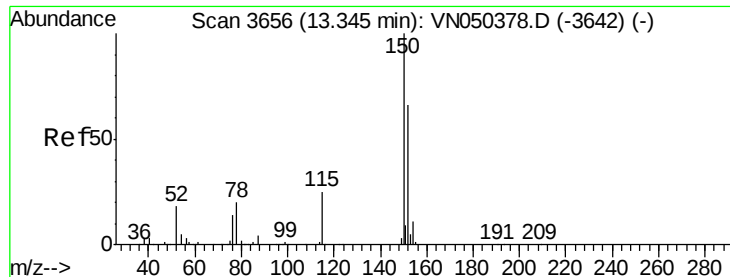


Abundance Ion 116.90 (116.60 to 117.60): VN050378.D (-3038) (-)

Ion 82.00 (81.70 to 82.70): VN050378.D (-3038) (-)

Ion 118.90 (118.60 to 119.60): VN050378.D (-3038) (-)





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050449.D

Acq: 7 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

PB111813ZHE#03

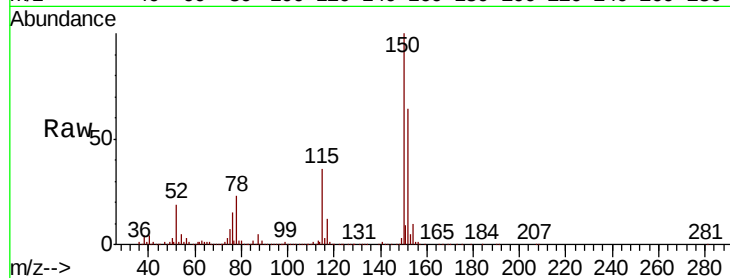
Tot Ion:152 Resp: 505348

Ion Ratio Lower Upper

152 100

115 55.9 27.8 83.3

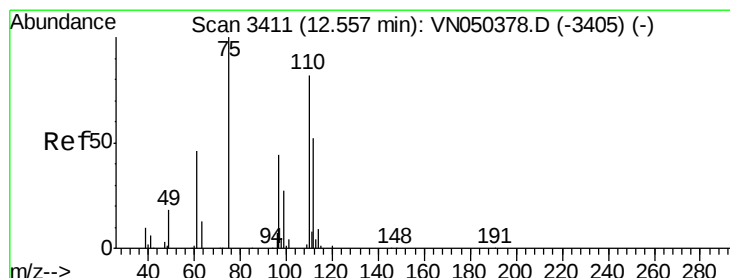
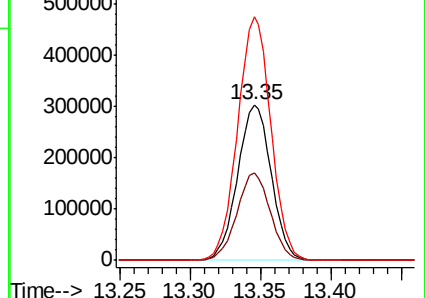
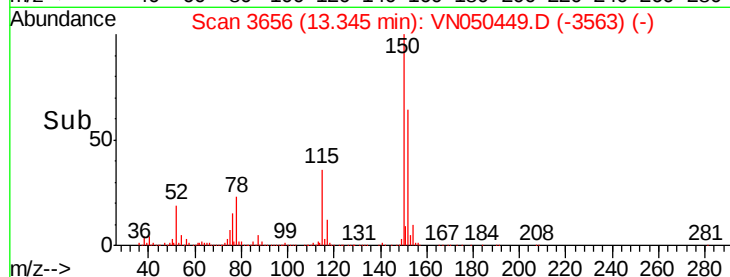
150 155.2 0.0 348.6



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



#76

1,2,3-Trichloropropane

Concen: 30.38 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. -0.15 min

Lab File: VN050449.D

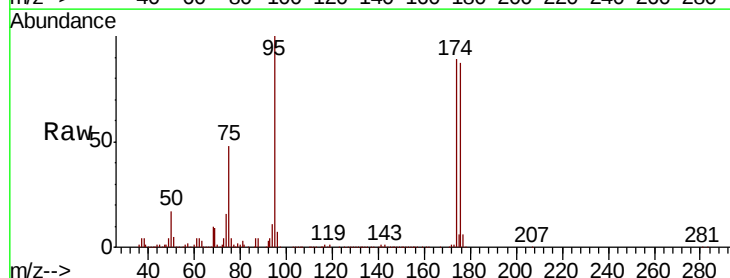
Acq: 7 Aug 2018 22:27

Tgt Ion: 75 Resp: 277864

Ion Ratio Lower Upper

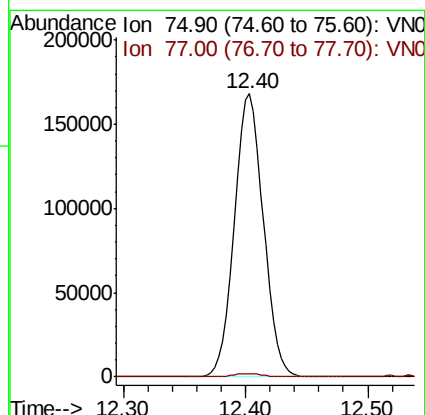
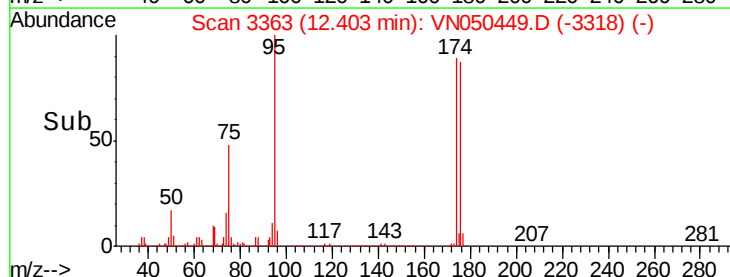
75 100

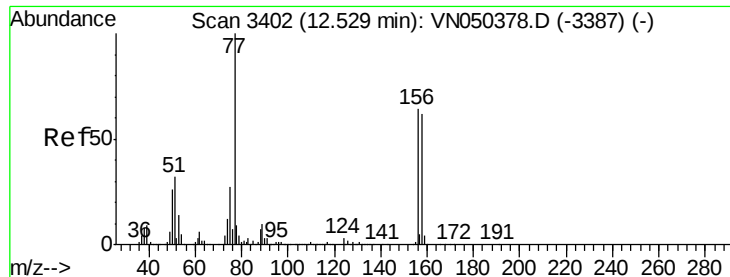
77 1.6 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): V

Ion 77.00 (76.70 to 77.70): V





#77

Bromobenzene

Concen: 2.75 ug/l

RT: 12.56 min Scan# 3411

Delta R.T. 0.03 min

Lab File: VN050449.D

Acq: 7 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

PB111813ZHE#03

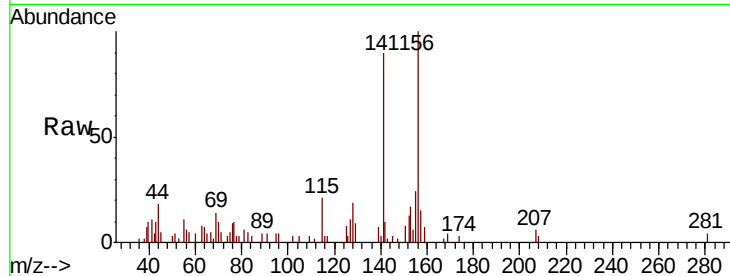
Tot Ion:156 Resp: 27961

Ion Ratio Lower Upper

156 100

77 0.0 91.7 275.1#

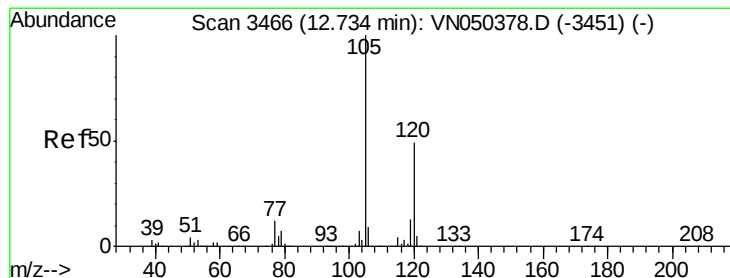
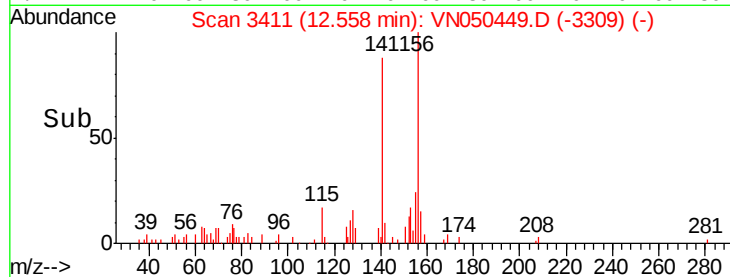
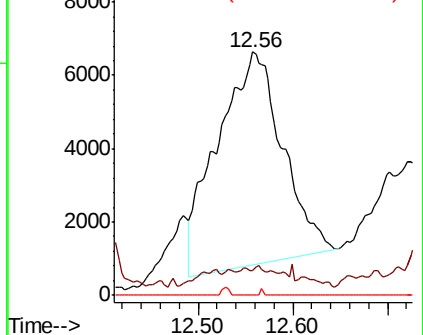
158 0.1 48.9 146.6#



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



#80

1,3,5-Trimethylbenzene

Concen: 0.31 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050449.D

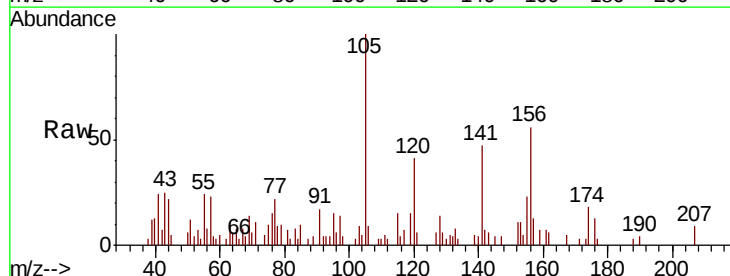
Acq: 7 Aug 2018 22:27

Tgt Ion:105 Resp: 9587

Ion Ratio Lower Upper

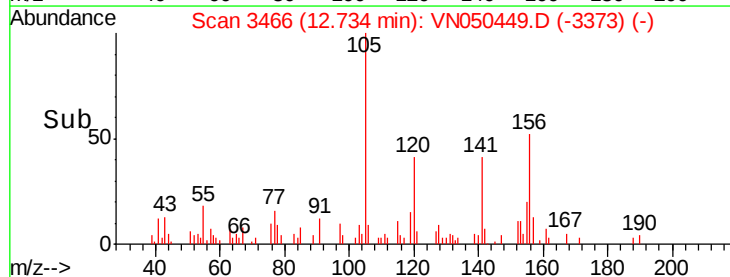
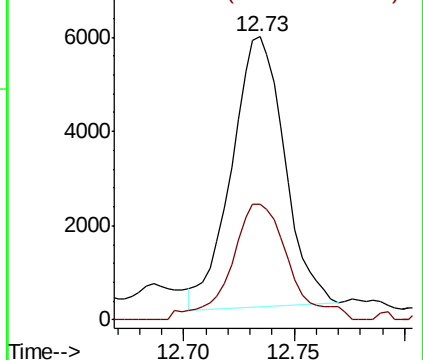
105 100

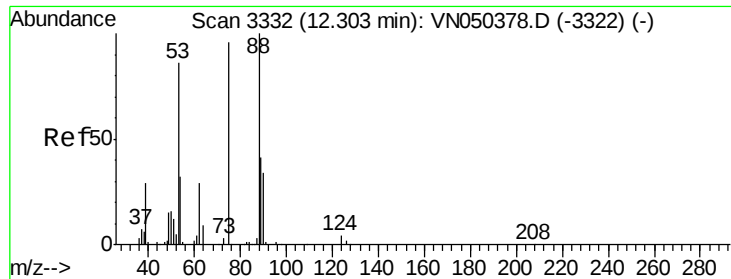
120 46.8 24.4 73.2



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

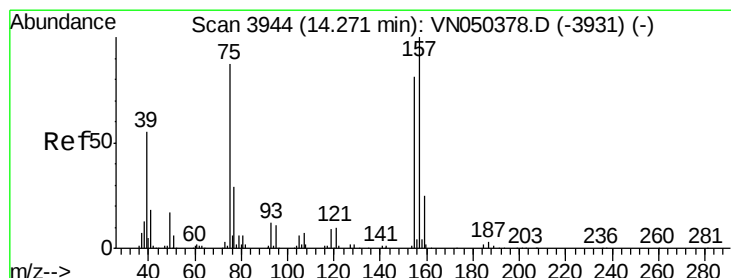
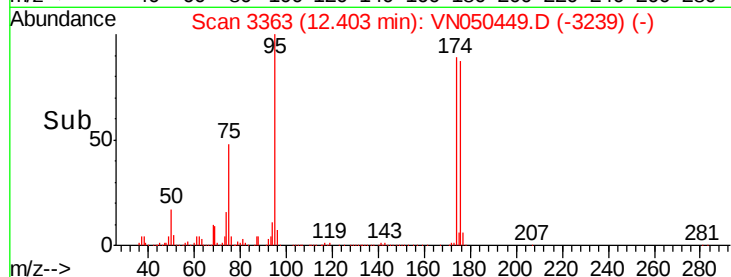
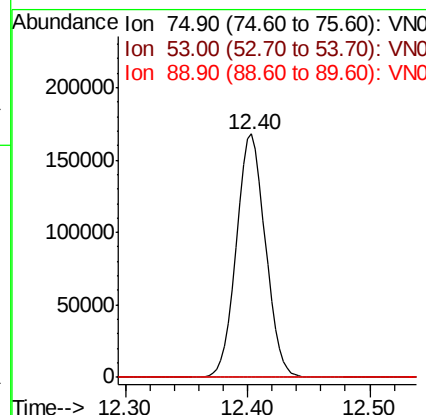
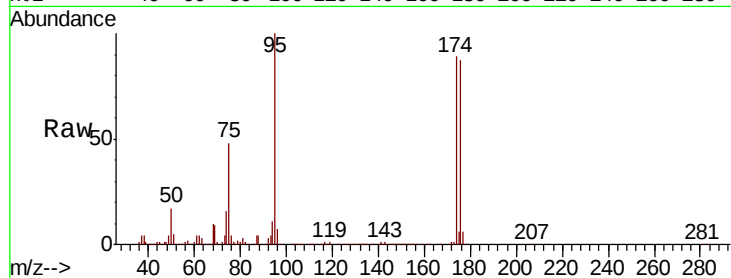




#81
 trans-1,4-Dichloro-2-butene
 Concen: 106.73 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.10 min
 Lab File: VN050449.D
 Acq: 7 Aug 2018 22:27

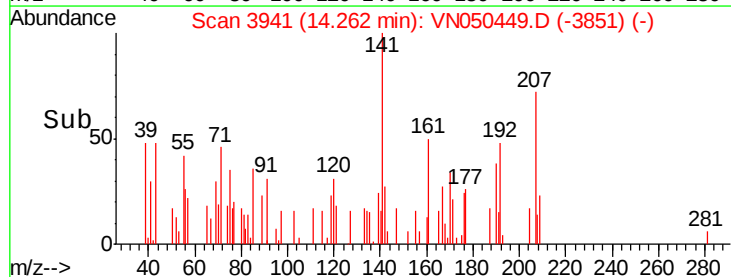
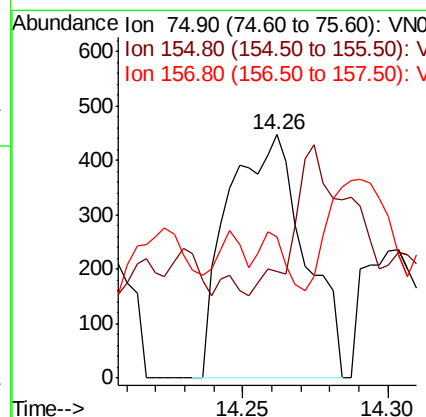
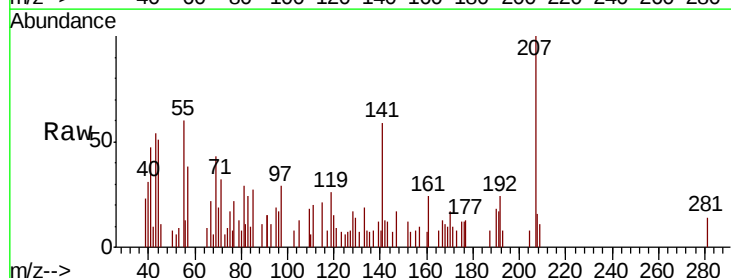
Instrument :
 MSVOA_N
 ClientSampleId :
 PB111813ZHE#03

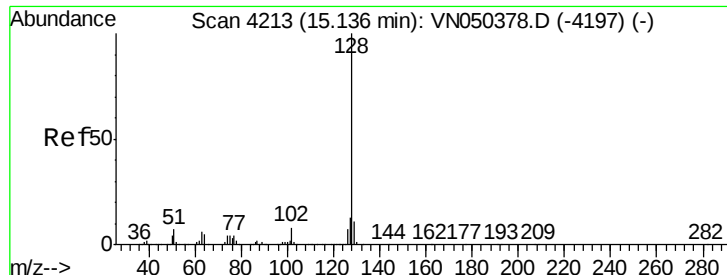
Tot Ion: 75 Resp: 277864
 Ion Ratio Lower Upper
 75 100
 53 0.1 73.5 110.3#
 89 0.0 36.0 54.0#



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 0.44 ug/l
 RT: 14.26 min Scan# 3941
 Delta R.T. -0.01 min
 Lab File: VN050449.D
 Acq: 7 Aug 2018 22:27

Tgt Ion: 75 Resp: 824
 Ion Ratio Lower Upper
 75 100
 155 45.3 44.8 134.4
 157 0.0 57.2 171.6#





#95

Naphthalene

Concen: 3.69 ug/l

RT: 15.14 min Scan# 4214

Delta R.T. 0.00 min

Lab File: VN050449.D

Acq: 7 Aug 2018 22:27

Instrument :

MSVOA_N

ClientSampleId :

PB111813ZHE#03

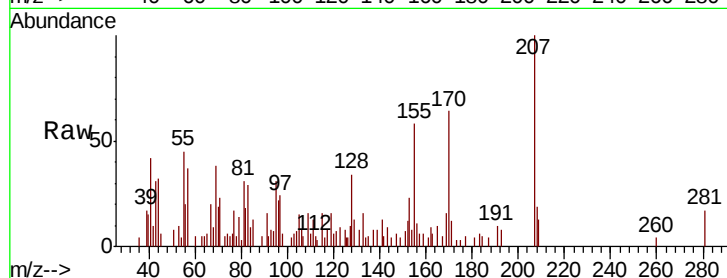
Tot Ion:128 Resp: 1787

Ion Ratio Lower Upper

128 100

127 14.7 10.4 15.6

129 13.9 8.8 13.2



Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

