

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN120418\
 Data File : VN052657.D
 Acq On : 4 Dec 2018 16:27
 Operator : MD\SY
 Sample : PB115293ZHE#03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115293ZHE#03

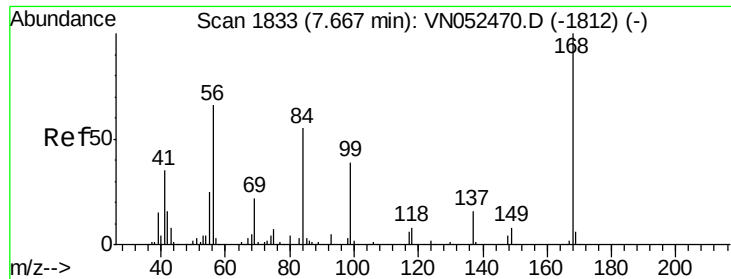
Quant Time: Dec 05 03:09:16 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N112718W.M
 Quant Title : SW846 8260
 QLast Update : Mon Dec 03 03:24:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1158606	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1800291	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1592082	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	597555	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	615921	48.82	ug/l	0.00
Spiked Amount			Recovery	=	97.64%	
35) Dibromofluoromethane	7.59	113	560597	50.51	ug/l	0.00
Spiked Amount			Recovery	=	101.02%	
50) Toluene-d8	10.09	98	2213782	51.24	ug/l	0.00
Spiked Amount			Recovery	=	102.48%	
62) 4-Bromofluorobenzene	12.40	95	698368	48.11	ug/l	0.00
Spiked Amount			Recovery	=	96.22%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
16) Acetone	3.82	43	14507	4.360	ug/l	98
18) Methyl Acetate	4.33	43	2625	0.275	ug/l #	72
20) Methylene Chloride	4.55	84	88425	6.791	ug/l	92
25) 2-Butanone	6.85	43	2120	0.450	ug/l #	50
29) Tetrahydrofuran	7.23	42	1565	0.514	ug/l #	69
31) Cyclohexane	7.67	56	19814	0.551	ug/l #	1
36) 1,1-Dichloropropene	7.67	75	79326	4.666	ug/l #	50
38) Carbon Tetrachloride	7.67	117	104163	6.768	ug/l #	16
43) Isopropyl Acetate	8.17	43	59497	3.389	ug/l #	77
45) 1,2-Dichloropropane	9.27	63	3086	0.229	ug/l #	43
48) Methyl methacrylate	9.18	41	14698	1.605	ug/l #	13
49) 1,4-Dioxane	9.27	88	374	3.936	ug/l #	1
51) 4-Methyl-2-Pentanone	10.02	43	17335	1.760	ug/l #	36
54) cis-1,3-Dichloropropene	9.90	75	121478	6.499	ug/l #	63
56) Ethyl methacrylate	10.54	69	1762	2.807	ug/l #	1
57) 1,3-Dichloropropane	10.77	76	24519	1.311	ug/l #	43
59) 2-Hexanone	10.76	43	339222	51.306	ug/l #	51
71) Bromoform	12.40	173	4416	0.584	ug/l #	1
74) N-amyl acetate	11.88	43	36699	3.098	ug/l #	53
76) 1,2,3-Trichloropropane	12.40	75	331195	35.942	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.40	75	331195	120.030	ug/l #	11
93) 1,2,4-Trichlorobenzene	14.91	180	249	2.852	ug/l #	47
95) Naphthalene	15.14	128	663	3.456	ug/l #	69
96) 1,2,3-Trichlorobenzene	15.32	180	179	2.744	ug/l #	26

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

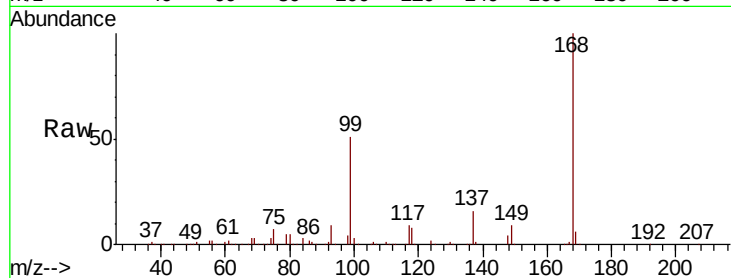
PB115293ZHE#03

Tot Ion:168 Resp: 1158606

Ion Ratio Lower Upper

168 100

99 51.2 41.7 62.5



Abundance Ion 167.90 (167.60 to 168.60): VN052470.D (-1812) (-)

Ion 98.90 (98.60 to 99.60): VN052470.D (-1812) (-)

7.67

500000

400000

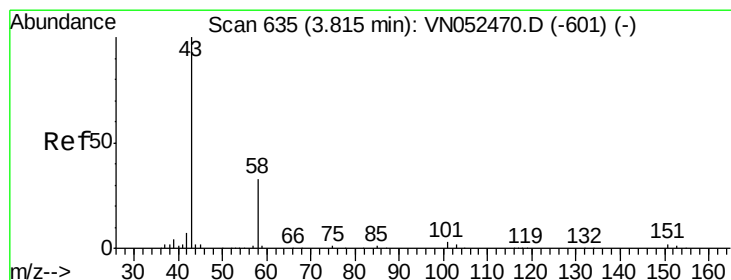
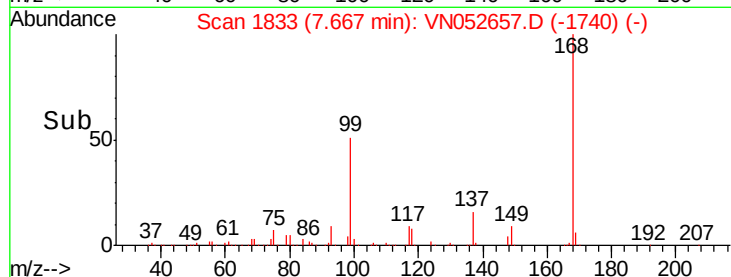
300000

200000

100000

0

Time-->



#16

Acetone

Concen: 4.360 ug/l

RT: 3.82 min Scan# 637

Delta R.T. 0.01 min

Lab File: VN052657.D

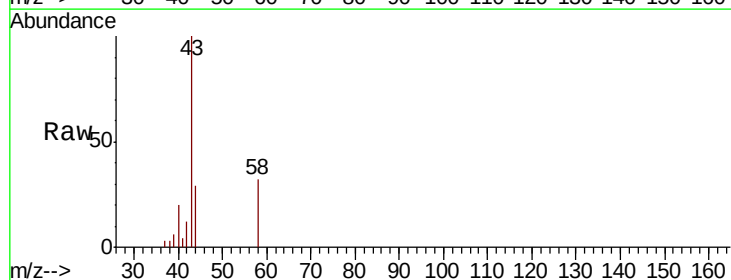
Acq: 4 Dec 2018 16:27

Tgt Ion: 43 Resp: 14507

Ion Ratio Lower Upper

43 100

58 33.6 26.0 39.0



Abundance Ion 43.00 (42.70 to 43.70): VN052470.D (-601) (-)

Ion 58.00 (57.70 to 58.70): VN052470.D (-601) (-)

3.82

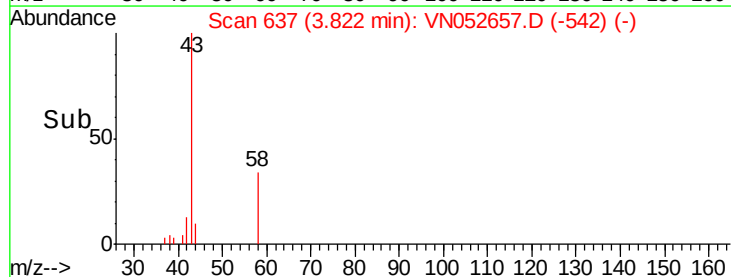
6000

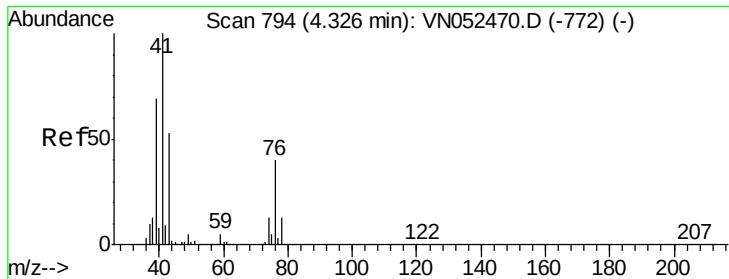
4000

2000

0

Time-->

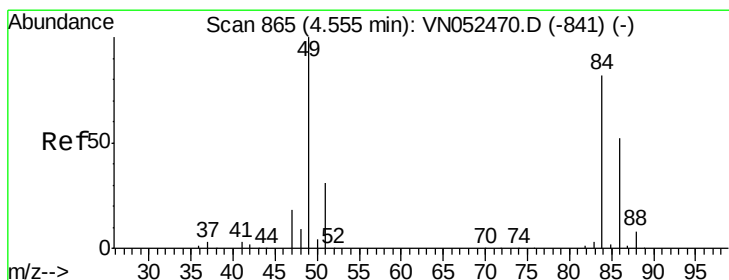
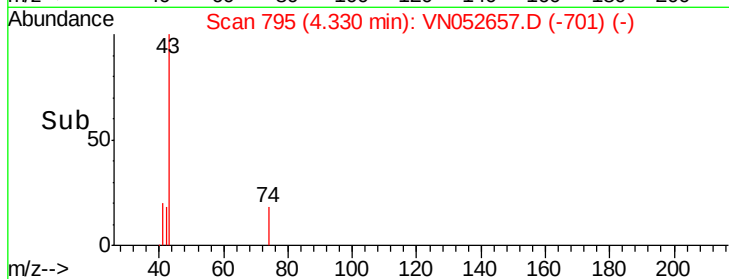
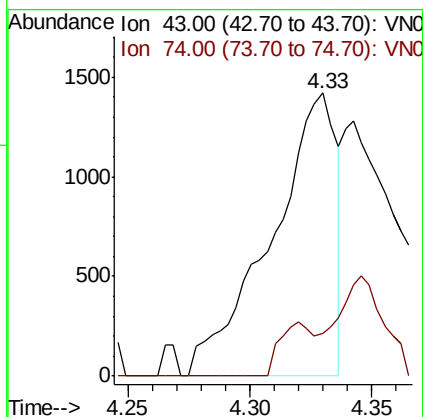
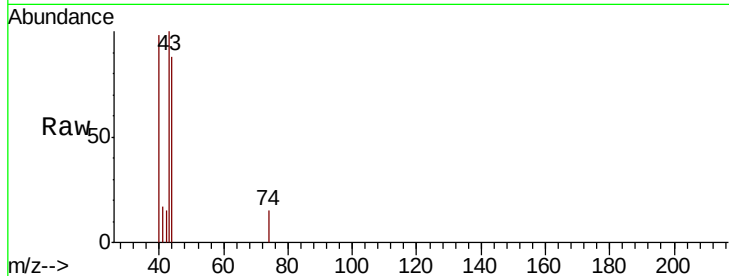




#18
Methvl Acetate
Concen: 0.275 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.00 min
Lab File: VN052657.D
Acq: 4 Dec 2018 16:27

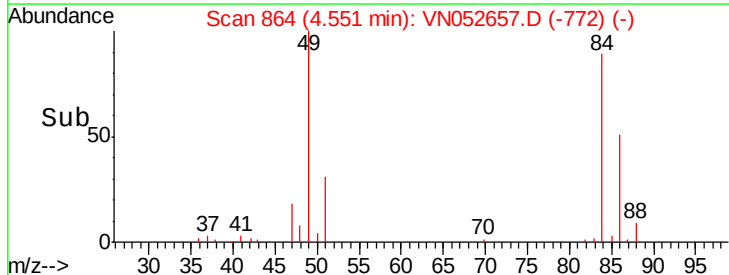
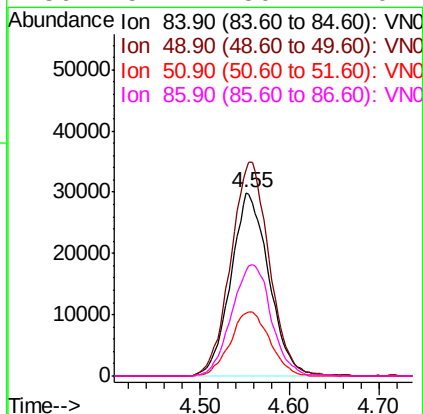
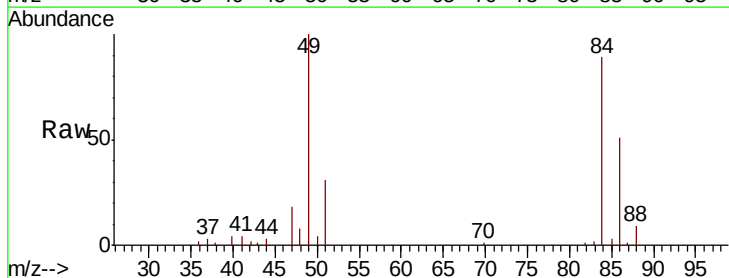
Instrument :
MSVOA_N
ClientSampleId :
PB115293ZHE#03

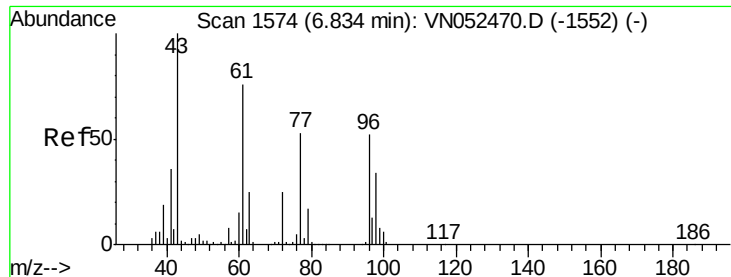
Tot Ion: 43 Resp: 2625
Ion Ratio Lower Upper
43 100
74 9.7 18.6 27.8#



#20
Methylene Chloride
Concen: 6.791 ug/l
RT: 4.55 min Scan# 864
Delta R.T. -0.00 min
Lab File: VN052657.D
Acq: 4 Dec 2018 16:27

Tgt Ion: 84 Resp: 88425
Ion Ratio Lower Upper
84 100
49 112.7 98.0 147.0
51 34.5 30.1 45.1
86 57.2 50.7 76.1

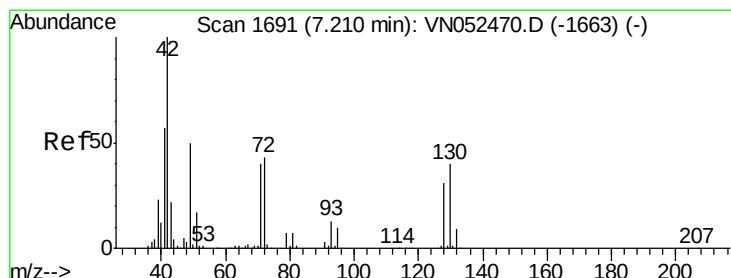
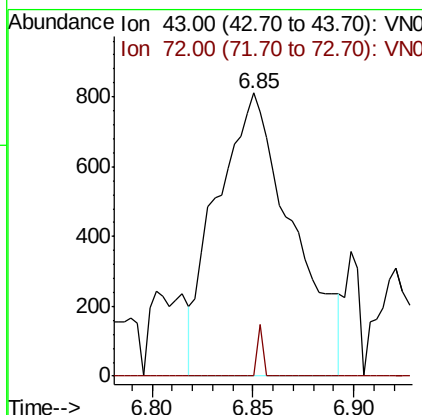
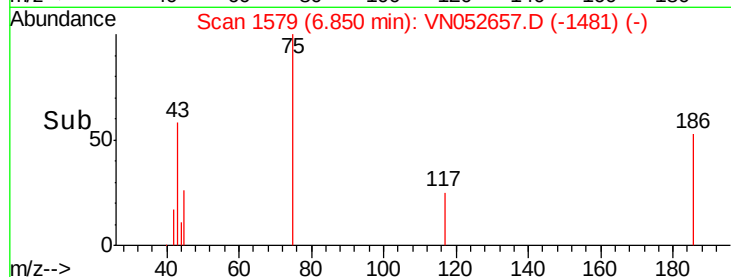
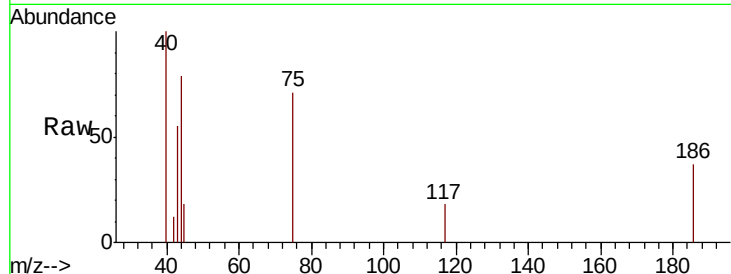




#25
2-Butanone
Concen: 0.450 ug/l
RT: 6.85 min Scan# 1579
Delta R.T. 0.02 min
Lab File: VN052657.D
Acq: 4 Dec 2018 16:27

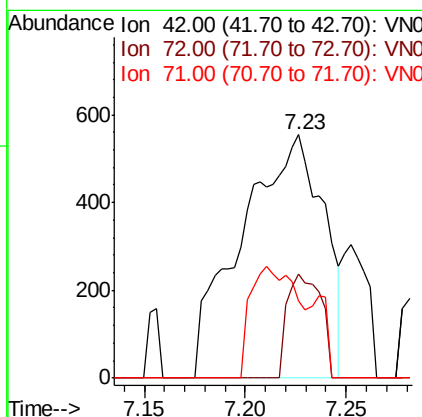
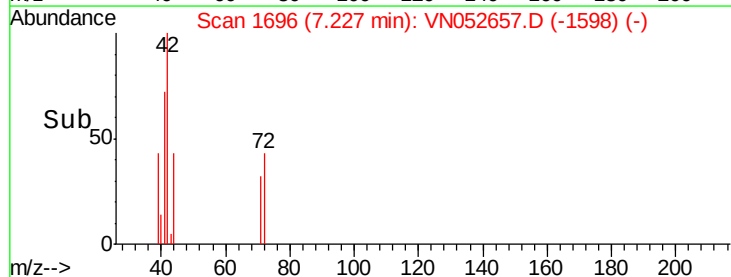
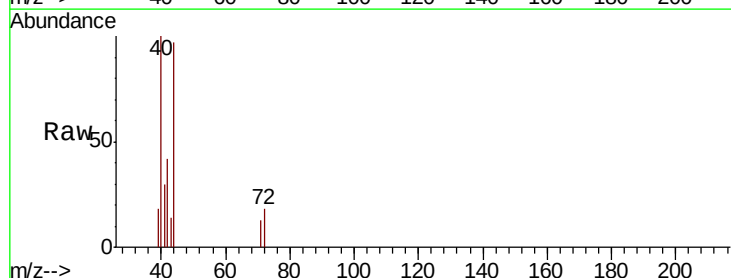
Instrument :
MSVOA_N
ClientSampleId :
PB115293ZHE#03

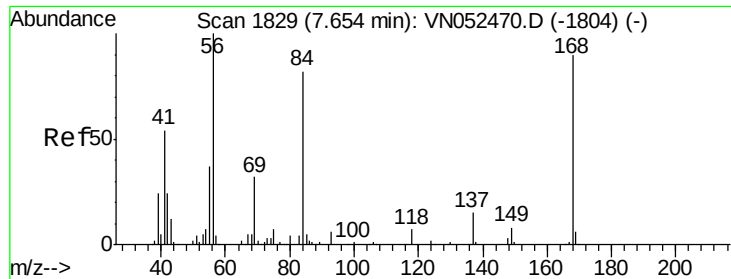
Tot Ion: 43 Resp: 2120
Ion Ratio Lower Upper
43 100
72 0.0 20.1 30.1#



#29
Tetrahydrofuran
Concen: 0.514 ug/l
RT: 7.23 min Scan# 1696
Delta R.T. 0.02 min
Lab File: VN052657.D
Acq: 4 Dec 2018 16:27

Tgt Ion: 42 Resp: 1565
Ion Ratio Lower Upper
42 100
72 17.2 33.3 49.9#
71 26.1 32.0 48.0#

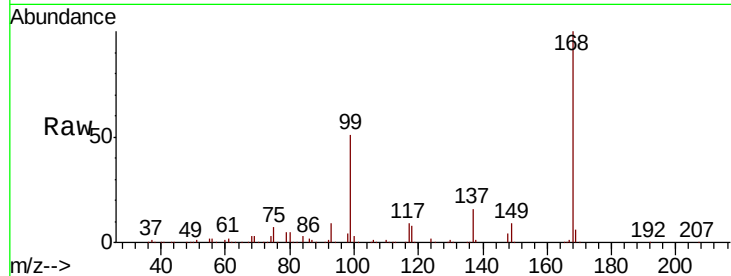




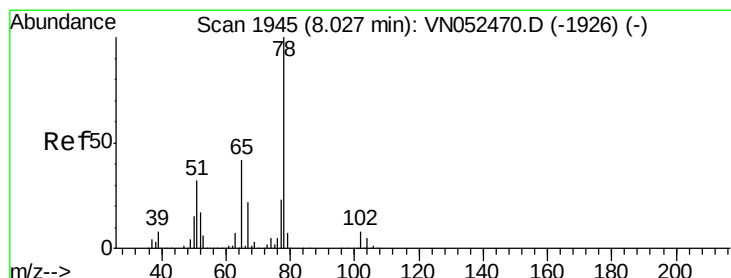
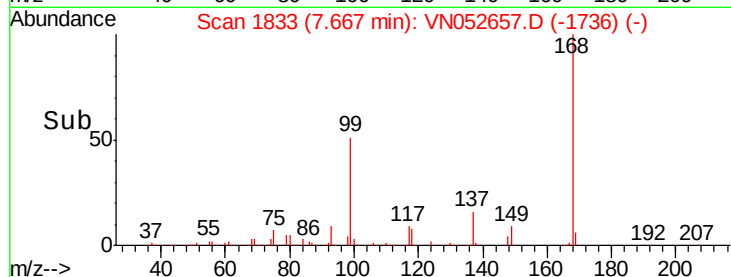
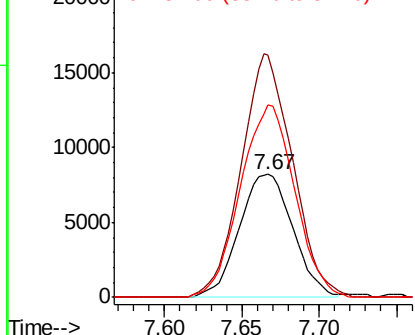
#31
Cyclohexane
Concen: 0.551 ug/l
RT: 7.67 min Scan# 1833
Delta R.T. 0.01 min
Lab File: VN052657.D
Acq: 4 Dec 2018 16:27

Instrument :
MSVOA_N
ClientSampleId :
PB115293ZHE#03

Tot Ion: 56 Resp: 19814
Ion Ratio Lower Upper
56 100
69 196.5 25.8 38.6#
84 156.2 65.3 97.9#

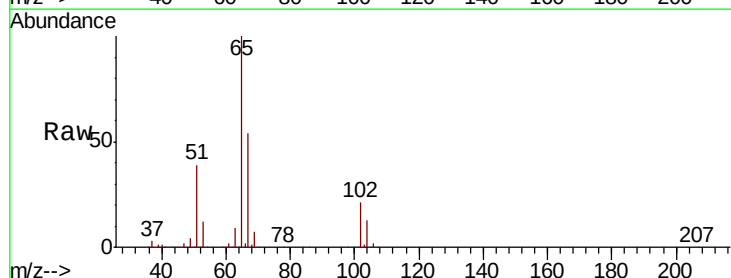


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

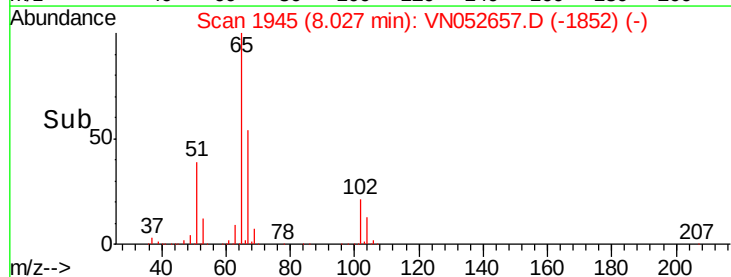
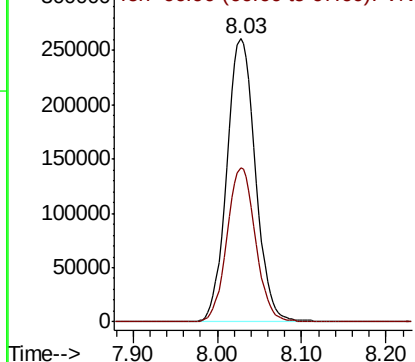


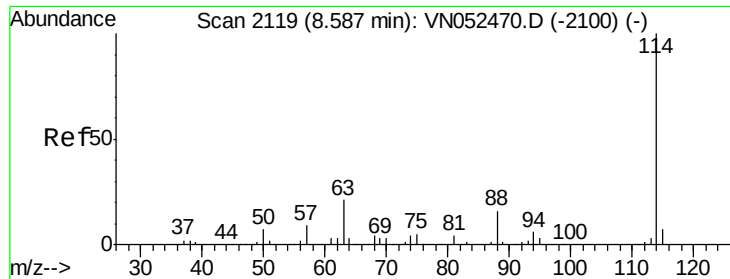
#33
1,2-Dichloroethane-d4
Concen: N.D. ug/l
RT: 8.03 min Scan# 1945
Delta R.T. 0.00 min
Lab File: VN052657.D
Acq: 4 Dec 2018 16:27

Tgt Ion: 65 Resp: 615921
Ion Ratio Lower Upper
65 100
67 54.4 0.0 109.8



Abundance Ion 64.90 (64.60 to 65.60): VN0
Ion 66.90 (66.60 to 67.60): VN0

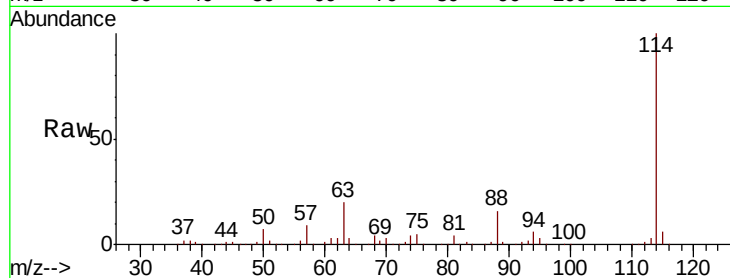




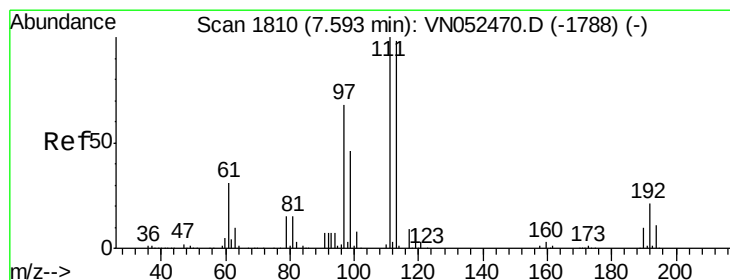
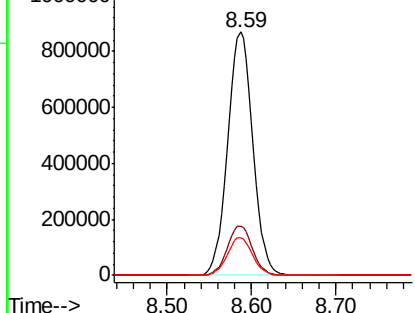
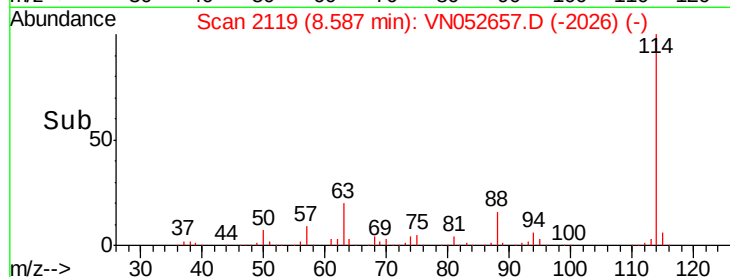
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN052657.D
 Acq: 4 Dec 2018 16:27

Instrument :
 MSVOA_N
 ClientSampleId :
 PB115293ZHE#03

Tot Ion:114 Resp: 1800291
 Ion Ratio Lower Upper
 114 100
 63 20.3 0.0 41.8
 88 15.5 0.0 31.6

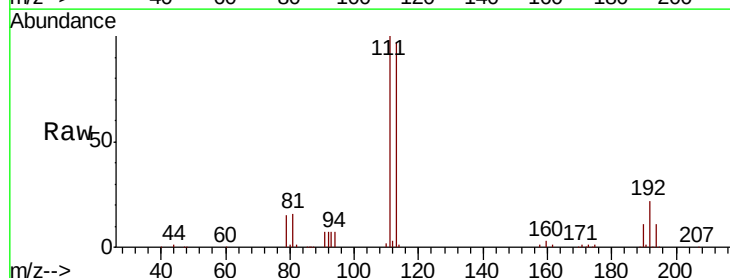


Abundance Ion 113.90 (113.60 to 114.60): V
 Ion 63.00 (62.70 to 63.70): VN
 Ion 87.90 (87.60 to 88.60): VN

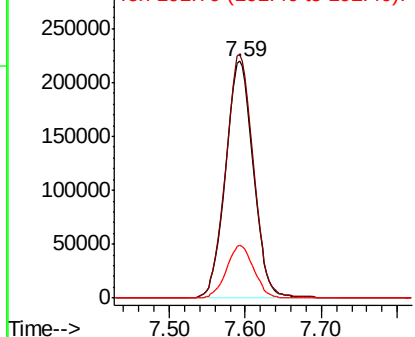
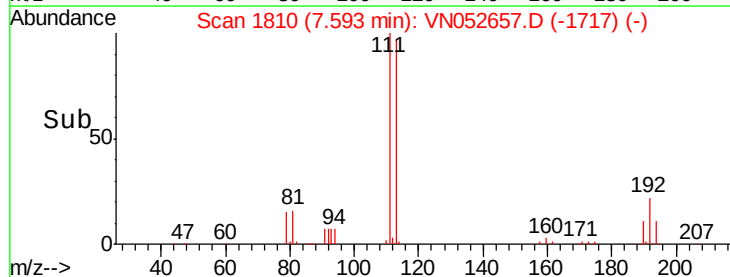


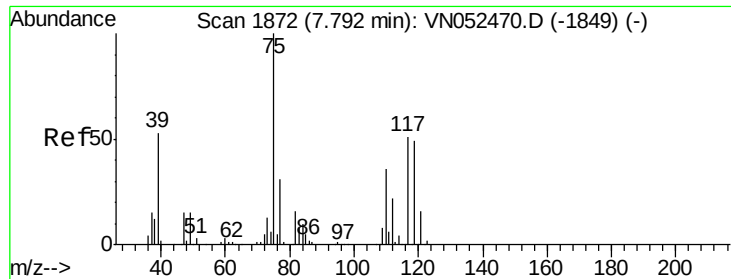
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN052657.D
 Acq: 4 Dec 2018 16:27

Tgt Ion:113 Resp: 560597
 Ion Ratio Lower Upper
 113 100
 111 101.8 82.0 123.0
 192 22.0 17.0 25.6



Abundance Ion 112.80 (112.50 to 113.50): V
 Ion 110.80 (110.50 to 111.50): V
 Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.666 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.13 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#03

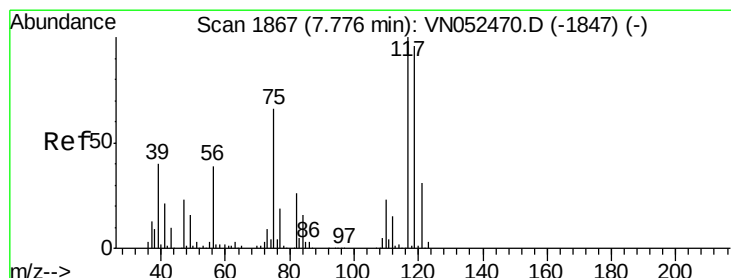
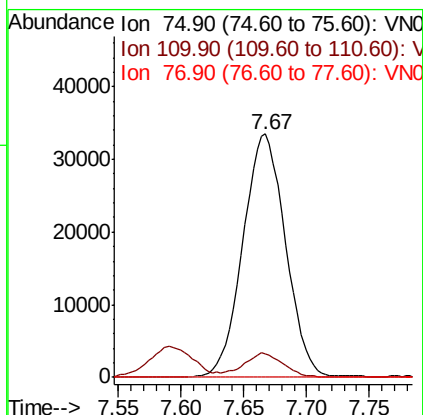
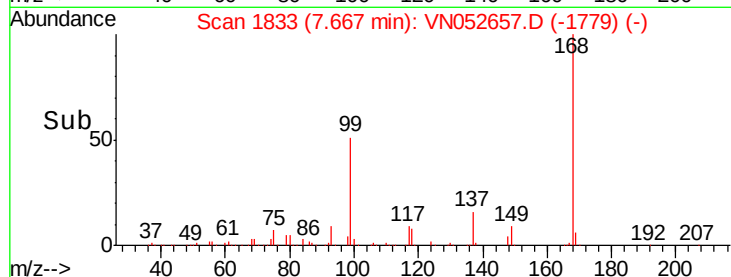
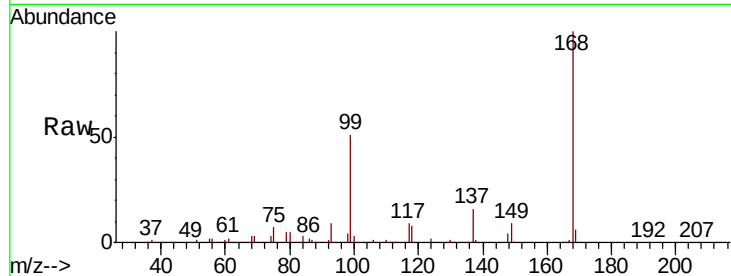
Tot Ion: 75 Resp: 79326

Ion Ratio Lower Upper

75 100

110 9.2 17.5 52.6#

77 0.0 24.5 36.7#



#38

Carbon Tetrachloride

Concen: 6.768 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.11 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

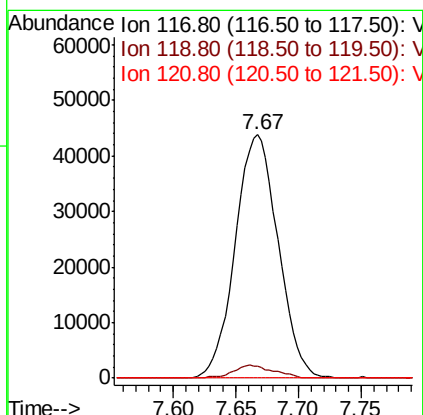
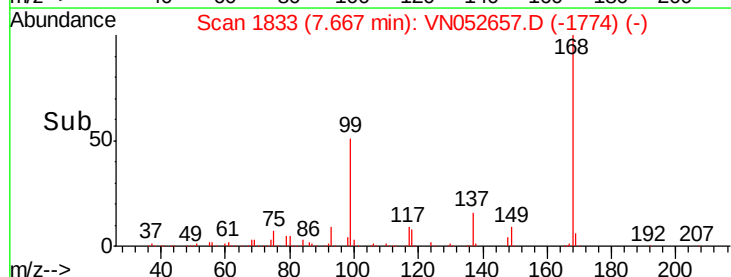
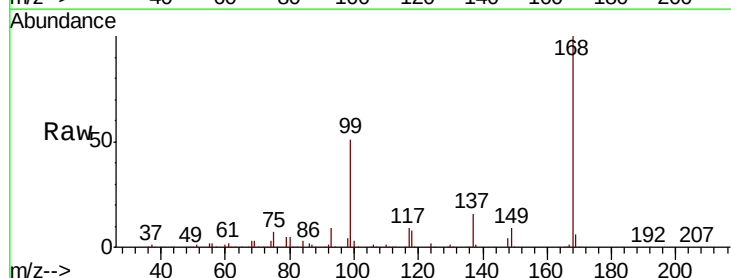
Tgt Ion: 117 Resp: 104163

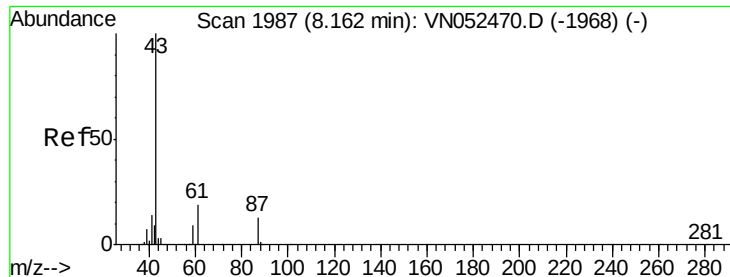
Ion Ratio Lower Upper

117 100

119 4.7 76.8 115.2#

121 0.0 24.9 37.3#





#43

Isopropyl Acetate

Concen: 3.389 ug/l

RT: 8.17 min Scan# 1989

Delta R.T. 0.01 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

Instrument :

MSVOA_N

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PB115293ZHE#03

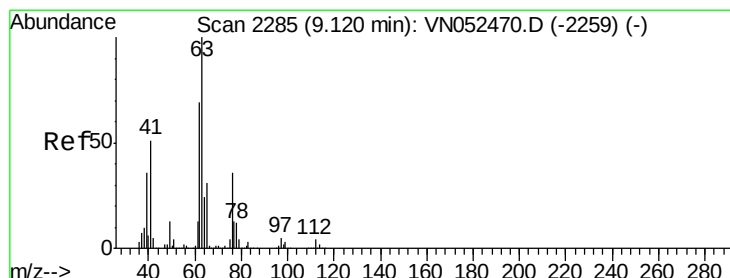
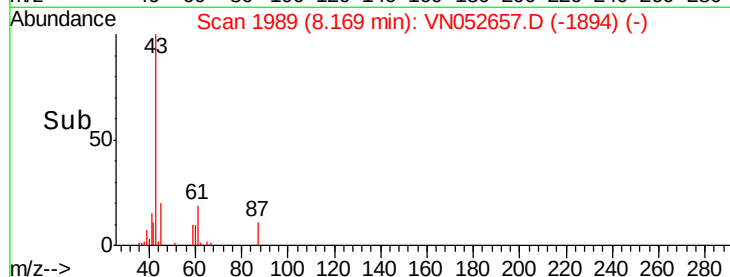
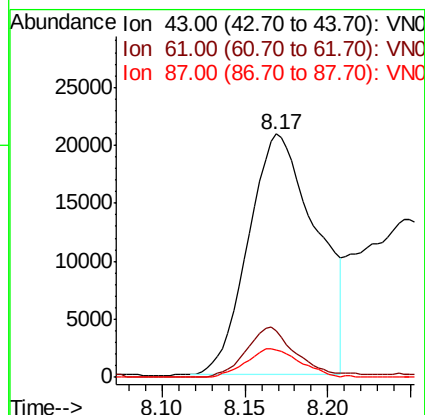
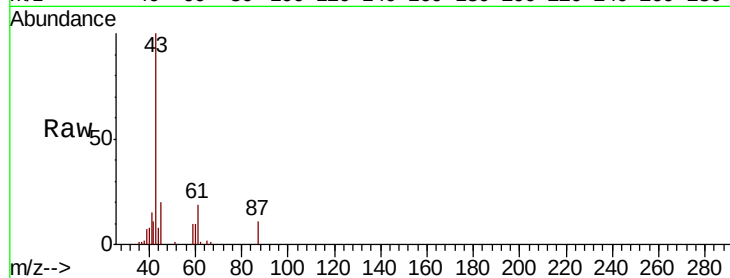
Tot Ion: 43 Resp: 59497

Ion Ratio Lower Upper

43 100

61 14.9 24.1 36.1#

87 9.2 10.6 15.8#



#45

1,2-Dichloropropane

Concen: 0.229 ug/l

RT: 9.27 min Scan# 2330

Delta R.T. 0.14 min

Lab File: VN052657.D

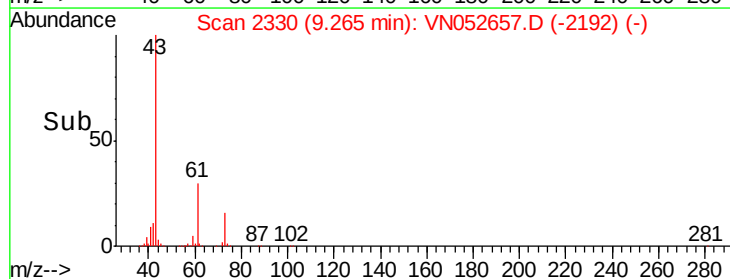
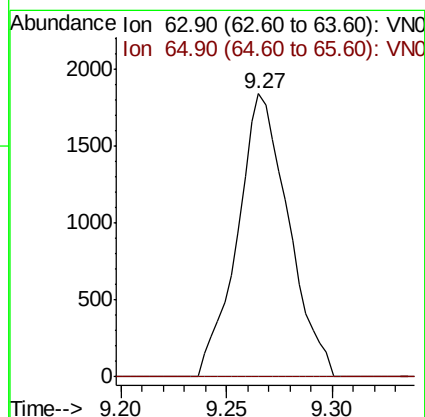
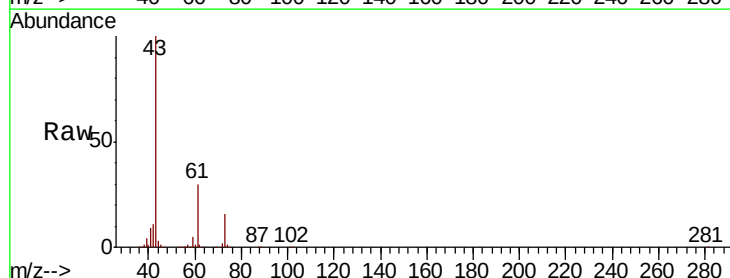
Acq: 4 Dec 2018 16:27

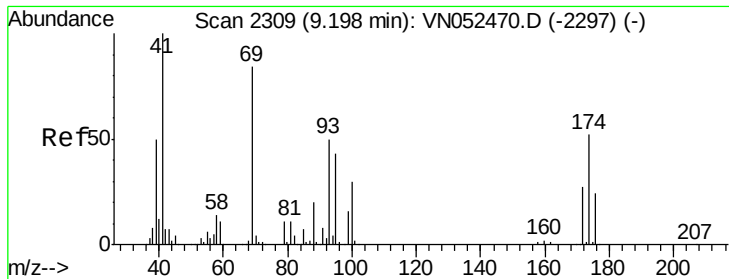
Tgt Ion: 63 Resp: 3086

Ion Ratio Lower Upper

63 100

65 0.0 25.0 37.6#

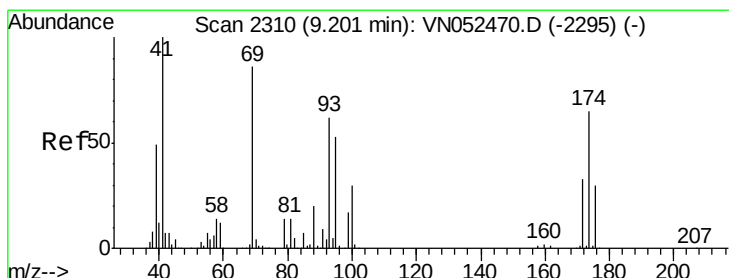
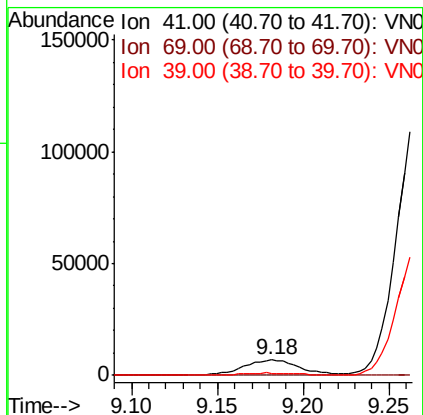
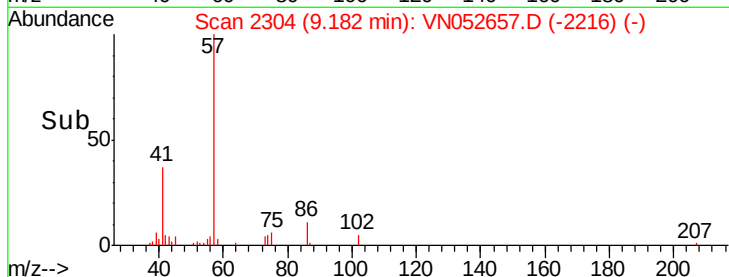
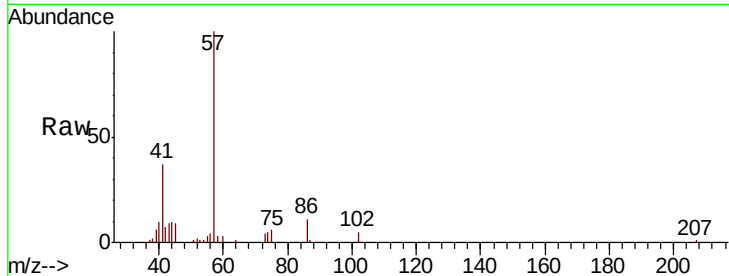




#48
Methvl methacrylate
Concen: 1.605 ug/l
RT: 9.18 min Scan# 2304
Delta R.T. -0.02 min
Lab File: VN052657.D
Acq: 4 Dec 2018 16:27

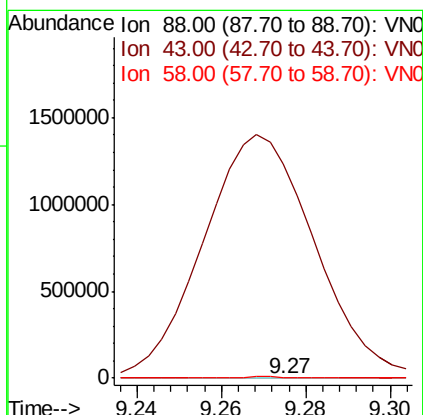
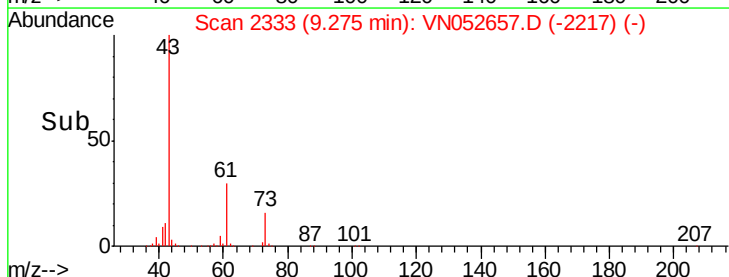
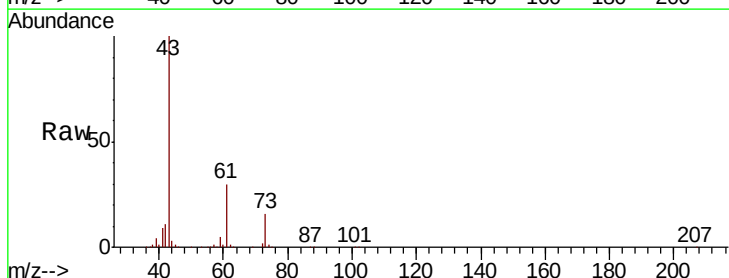
Instrument :
MSVOA_N
ClientSampleId :
PB115293ZHE#03

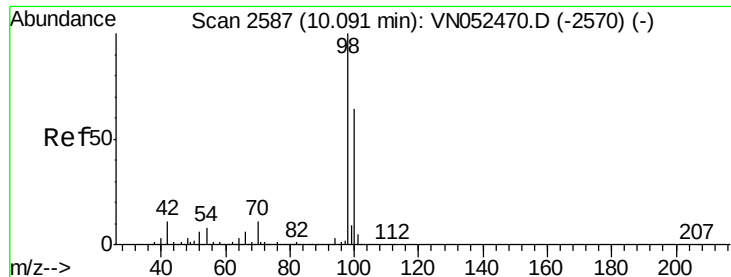
Tot Ion: 41 Resp: 14698
Ion Ratio Lower Upper
41 100
69 0.0 70.0 105.0#
39 0.0 42.6 64.0#



#49
1,4-Dioxane
Concen: 3.936 ug/l
RT: 9.27 min Scan# 2333
Delta R.T. 0.07 min
Lab File: VN052657.D
Acq: 4 Dec 2018 16:27

Tgt Ion: 88 Resp: 374
Ion Ratio Lower Upper
88 100
43 703804.0 26.4 39.6#
58 3350.8 55.4 83.0#





#50

Toluene-d8

Concen: 3.936 ug/l

RT: 10.09 min Scan# 2587

Delta R.T. 0.00 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

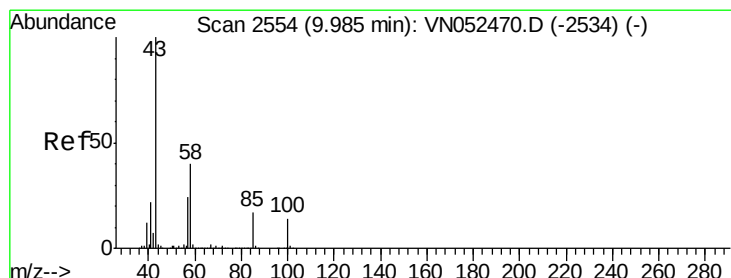
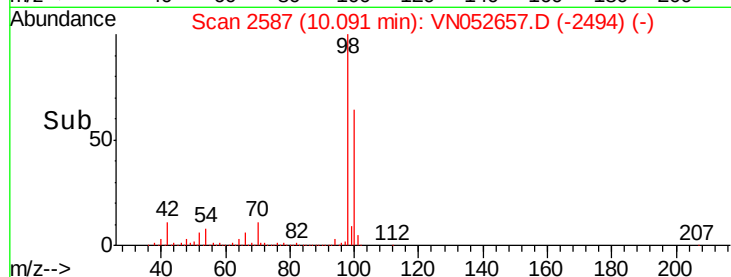
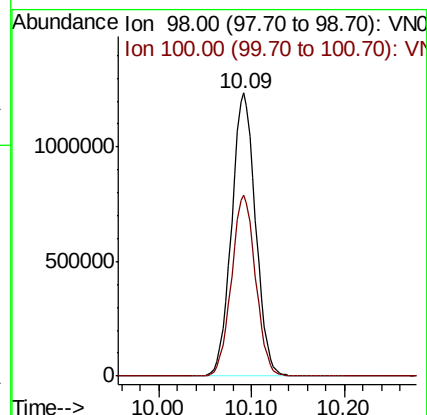
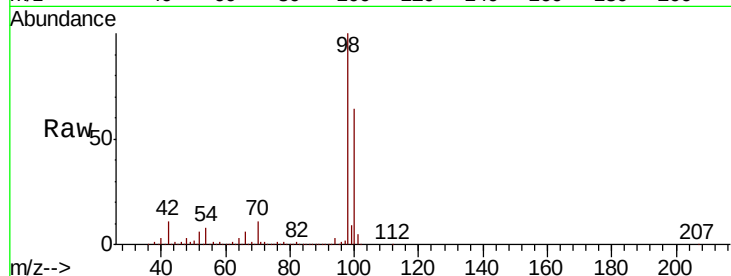
PB115293ZHE#03

Tot Ion: 98 Resp: 2213782

Ion Ratio Lower Upper

98 100

100 64.2 51.3 76.9



#51

4-Methyl-2-Pentanone

Concen: 1.760 ug/l

RT: 10.02 min Scan# 2566

Delta R.T. 0.04 min

Lab File: VN052657.D

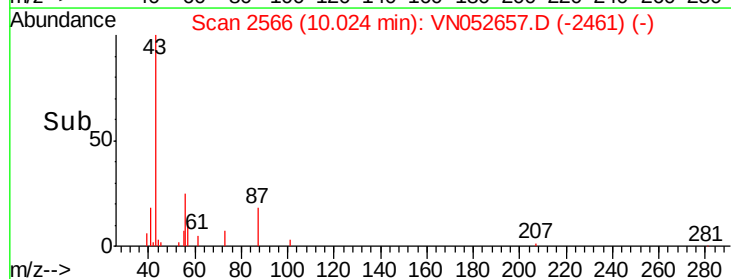
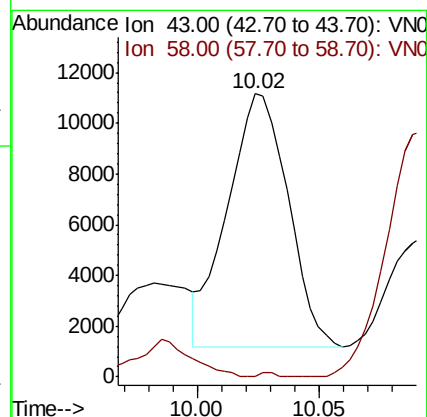
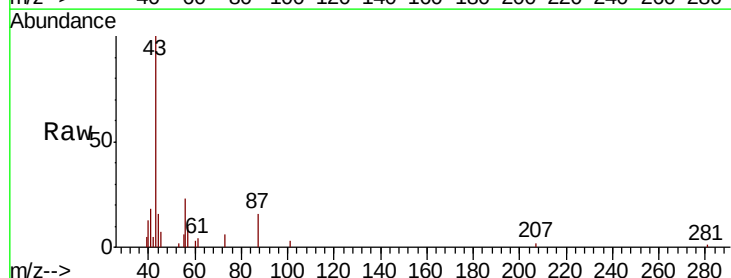
Acq: 4 Dec 2018 16:27

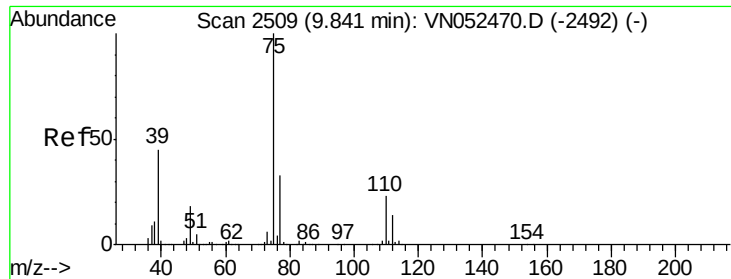
Tgt Ion: 43 Resp: 17335

Ion Ratio Lower Upper

43 100

58 0.0 31.5 47.3#





#54

cis-1,3-Dichloropropene

Concen: 6.499 ug/l

RT: 9.90 min Scan# 2529

Delta R.T. 0.06 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#03

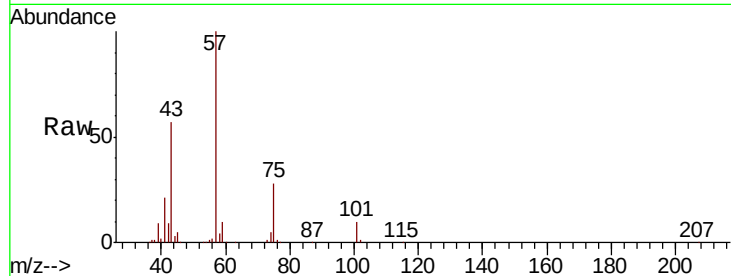
Tot Ion: 75 Resp: 121478

Ion Ratio Lower Upper

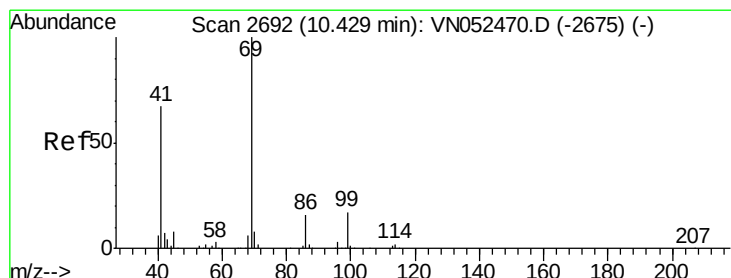
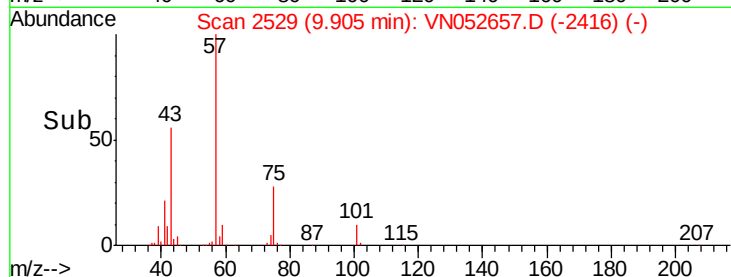
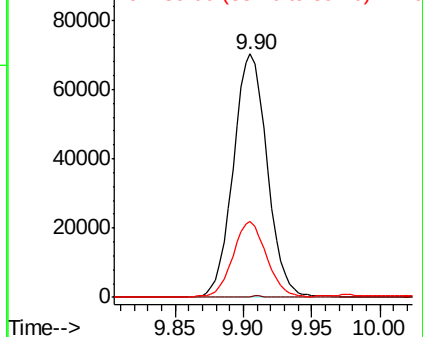
75 100

77 0.4 26.2 39.2#

39 31.0 36.0 54.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO
Ion 76.90 (76.60 to 77.60): VNO
Ion 39.00 (38.70 to 39.70): VNO



#56

Ethyl methacrylate

Concen: 2.807 ug/l

RT: 10.54 min Scan# 2728

Delta R.T. 0.12 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

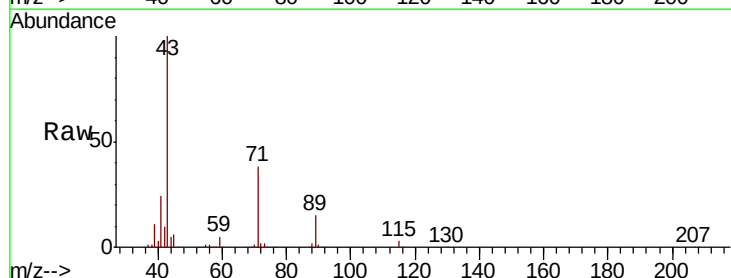
Tgt Ion: 69 Resp: 1762

Ion Ratio Lower Upper

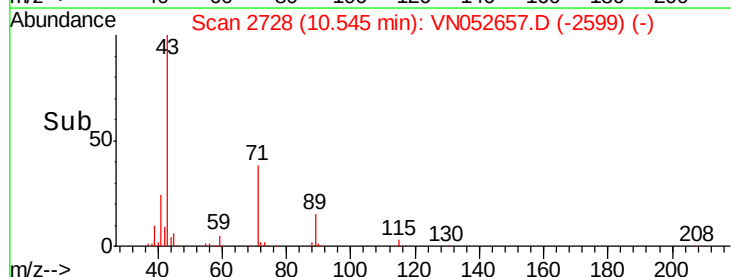
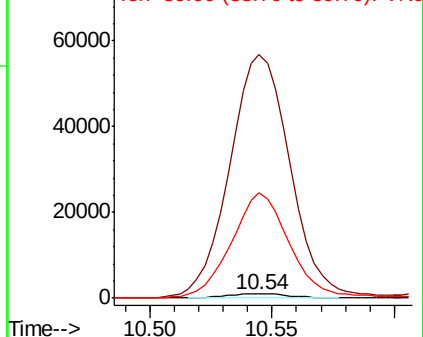
69 100

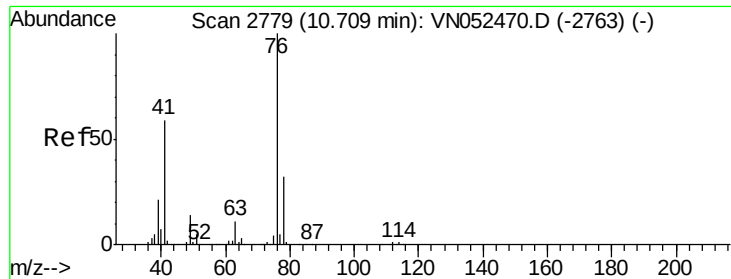
41 5584.3 52.6 79.0#

39 2306.7 25.9 38.9#



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

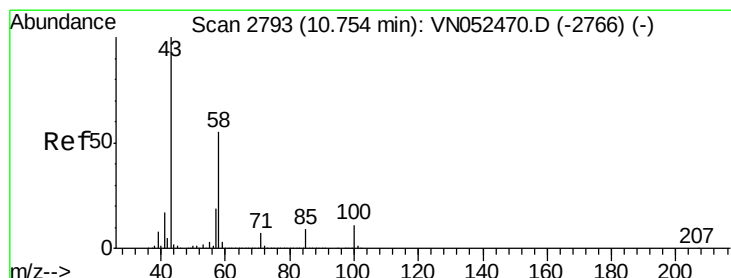
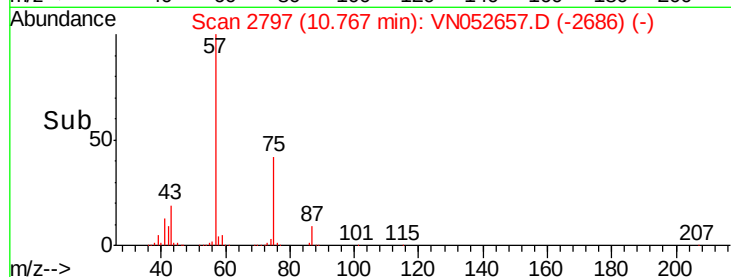
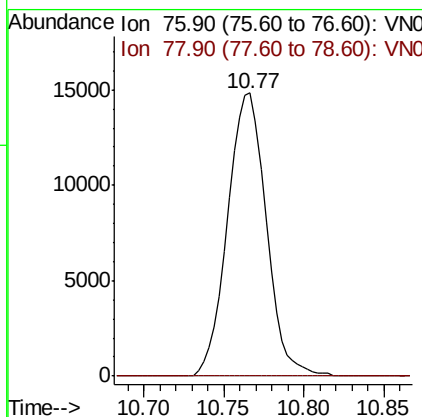
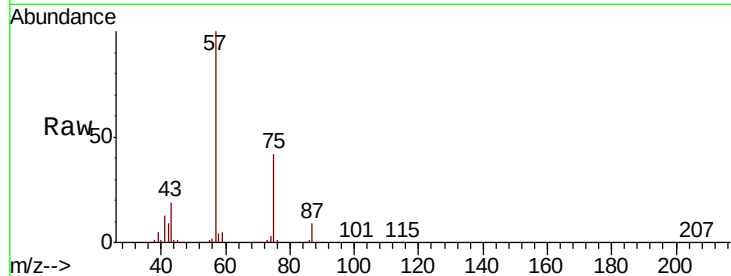




#57
 1,3-Dichloropropane
 Concen: 1.311 ug/l
 RT: 10.77 min Scan# 2797
 Delta R.T. 0.06 min
 Lab File: VN052657.D
 Acq: 4 Dec 2018 16:27

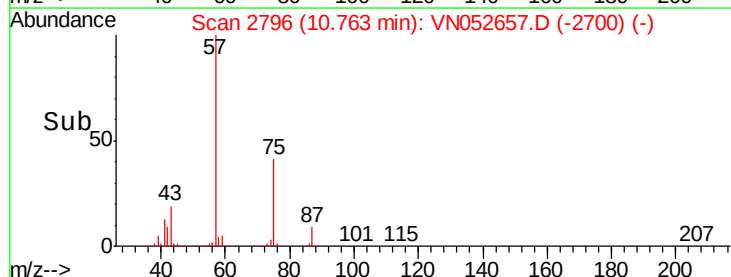
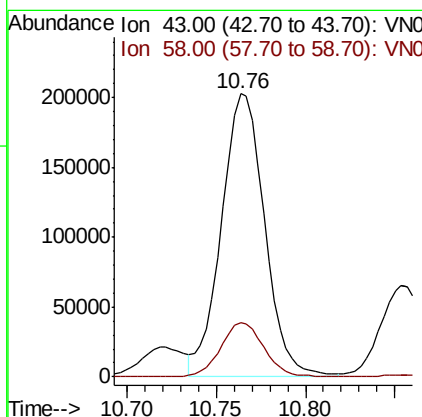
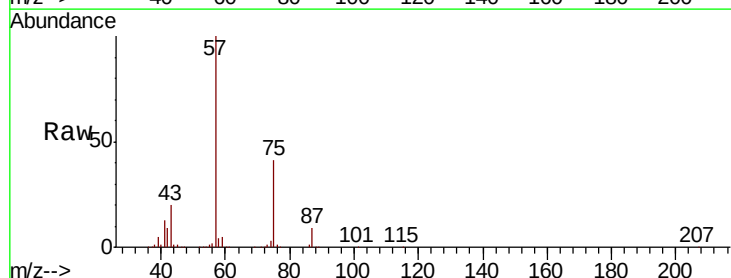
Instrument :
 MSVOA_N
 ClientSampleId :
 PB115293ZHE#03

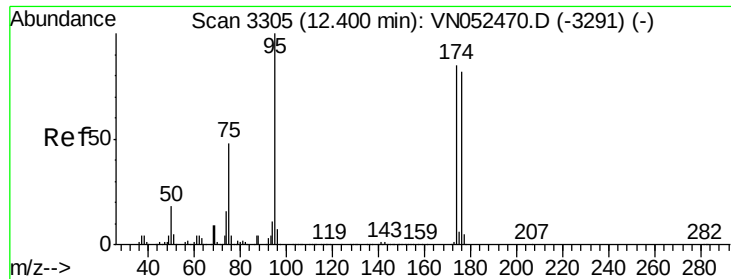
Tot Ion: 76 Resp: 24519
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.6 38.4#



#59
 2-Hexanone
 Concen: 51.306 ug/l
 RT: 10.76 min Scan# 2796
 Delta R.T. 0.01 min
 Lab File: VN052657.D
 Acq: 4 Dec 2018 16:27

Tgt Ion: 43 Resp: 339222
 Ion Ratio Lower Upper
 43 100
 58 19.3 27.4 82.0#

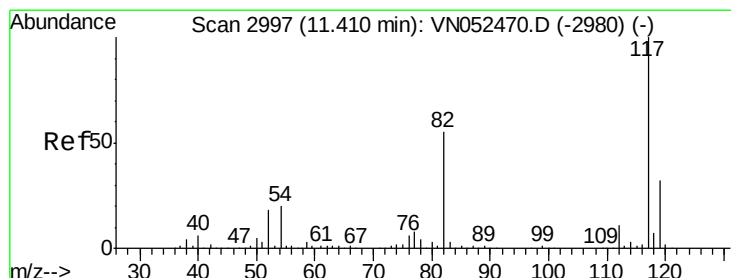
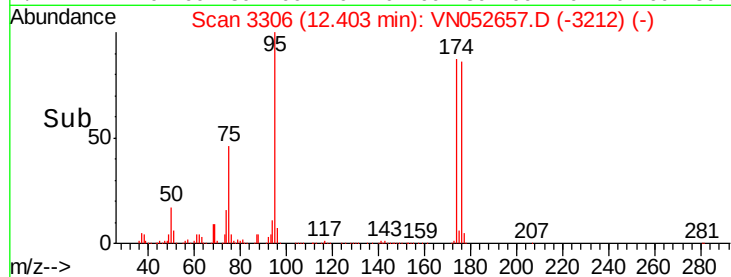
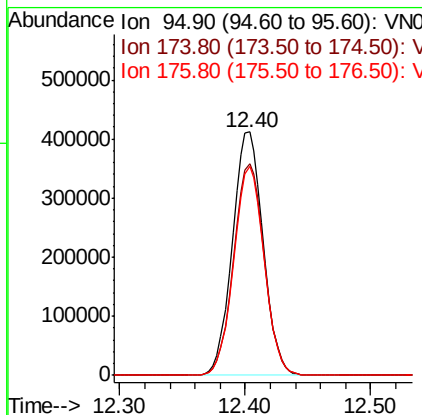
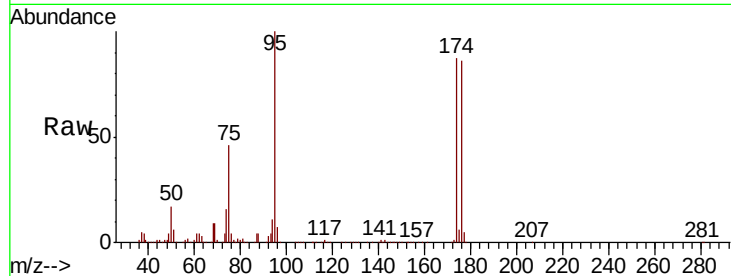




#62
4-Bromofluorobenzene
Concen: N.D. ug/l
RT: 12.40 min Scan# 3306
Delta R.T. 0.00 min
Lab File: VN052657.D
Acq: 4 Dec 2018 16:27

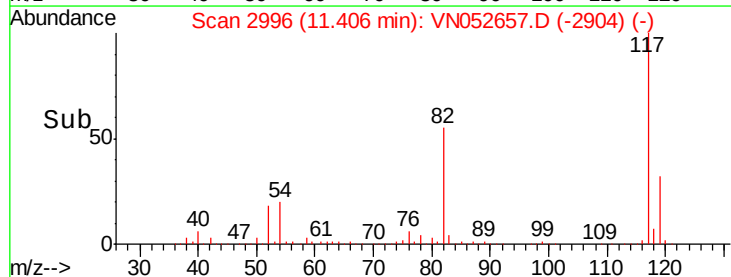
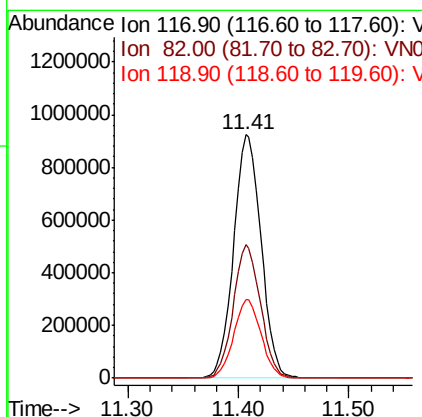
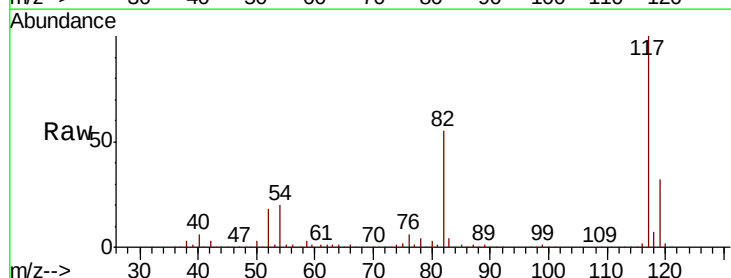
Instrument :
MSVOA_N
ClientSampleId :
PB115293ZHE#03

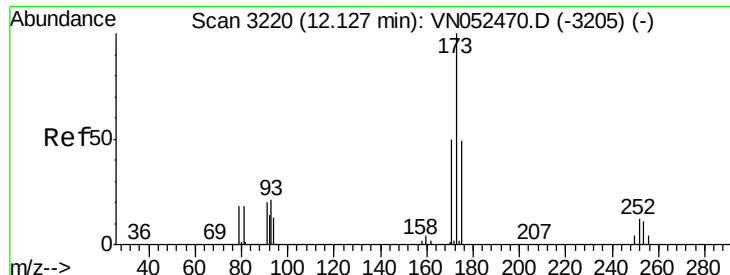
Tot Ion: 95 Resp: 698368
Ion Ratio Lower Upper
95 100
174 87.1 0.0 173.0
176 85.0 0.0 166.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN052657.D
Acq: 4 Dec 2018 16:27

Tgt Ion: 117 Resp: 1592082
Ion Ratio Lower Upper
117 100
82 54.7 43.6 65.4
119 32.3 25.4 38.2





#71

Bromoform

Concen: 0.584 ug/l

RT: 12.40 min Scan# 3306

Delta R.T. 0.28 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#03

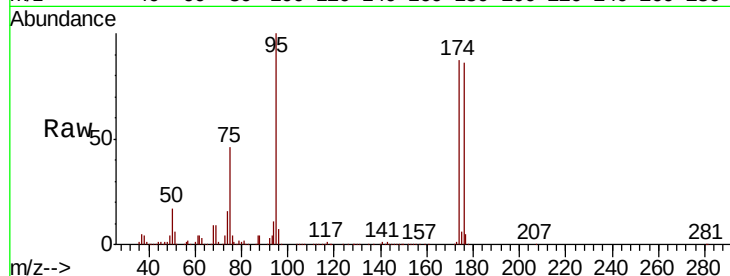
Tot Ion:173 Resp: 4416

Ion Ratio Lower Upper

173 100

175 882.5 24.4 73.2#

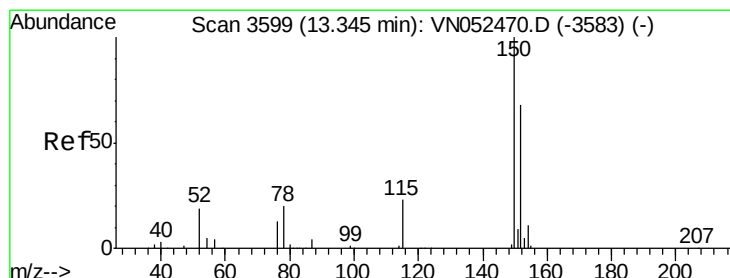
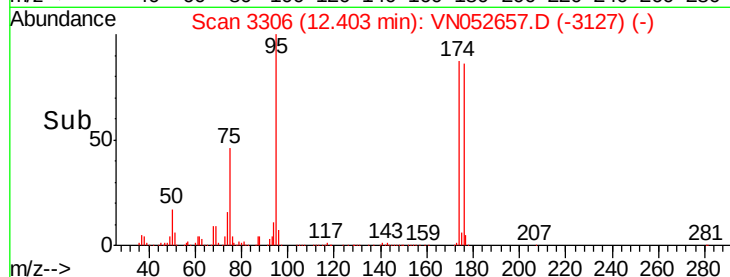
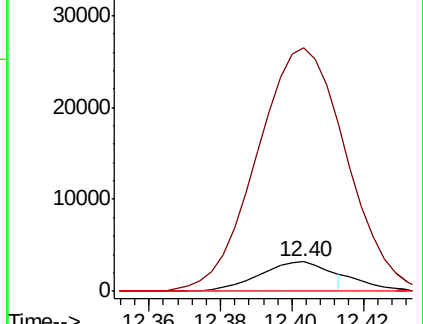
254 0.0 0.1 0.1#



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.35 min Scan# 3599

Delta R.T. 0.00 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

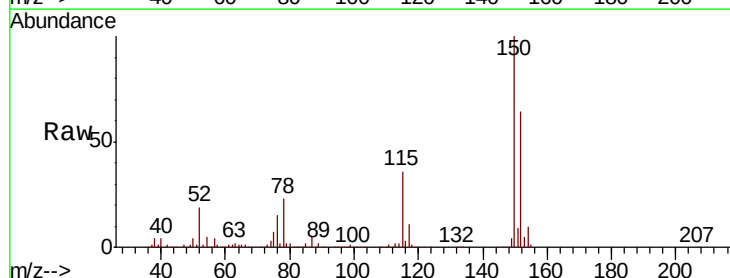
Tgt Ion:152 Resp: 597555

Ion Ratio Lower Upper

152 100

115 56.9 28.4 85.2

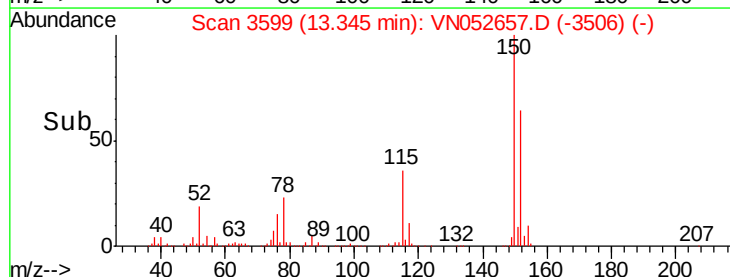
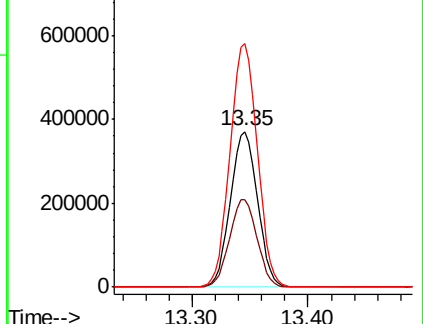
150 157.7 0.0 346.0

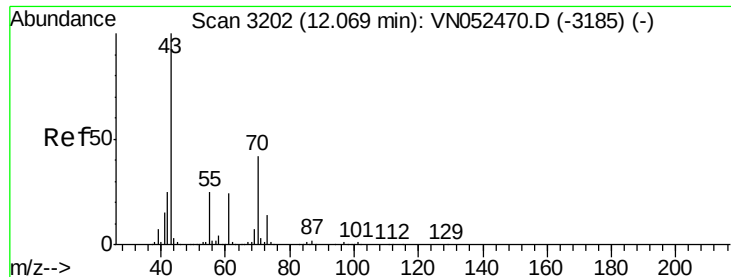


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





#74

N-amvl acetate

Concen: 3.098 ug/l

RT: 11.88 min Scan# 3143

Delta R.T. -0.19 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#03

Tot Ion: 43 Resp: 36699

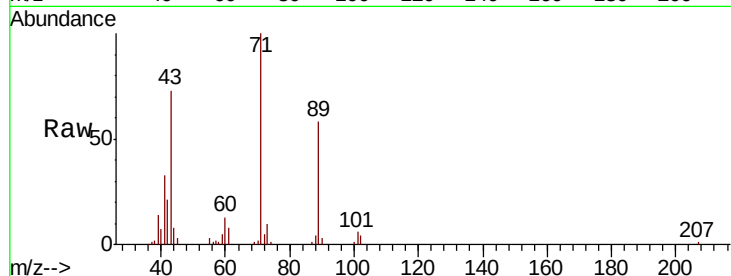
Ion Ratio Lower Upper

43 100

70 2.1 33.8 50.8#

55 5.0 20.0 30.0#

61 10.9 19.7 29.5#

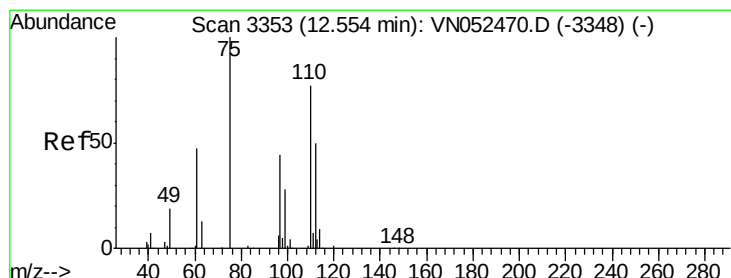
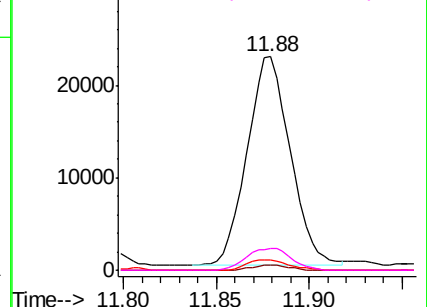
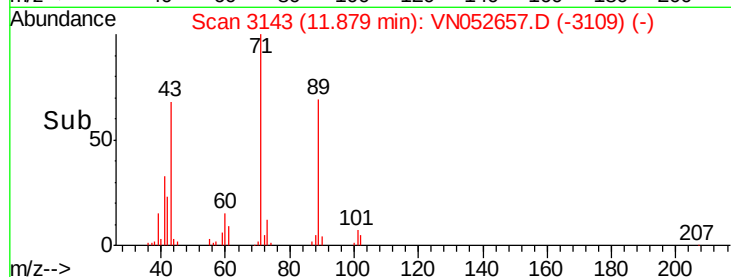


Abundance Ion 43.00 (42.70 to 43.70): VNO

Ion 70.00 (69.70 to 70.70): VNO

Ion 55.00 (54.70 to 55.70): VNO

Ion 61.00 (60.70 to 61.70): VNO



#76

1,2,3-Trichloropropane

Concen: 35.942 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. -0.15 min

Lab File: VN052657.D

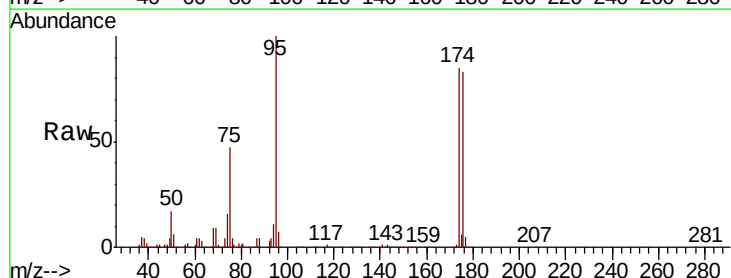
Acq: 4 Dec 2018 16:27

Tgt Ion: 75 Resp: 331195

Ion Ratio Lower Upper

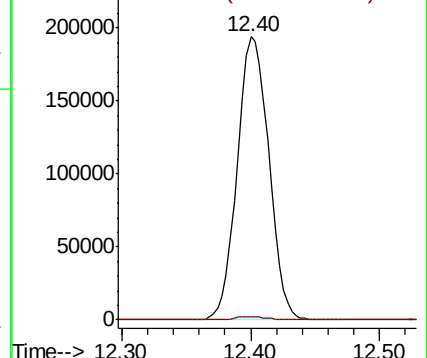
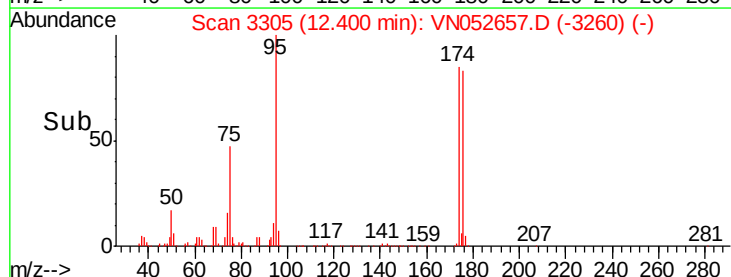
75 100

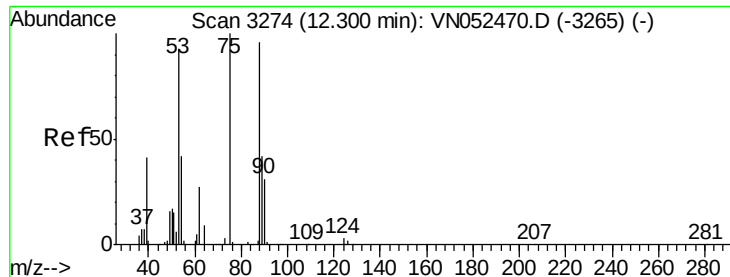
77 1.2 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VNO

Ion 77.00 (76.70 to 77.70): VNO





#81

trans-1,4-Dichloro-2-butene

Concen: 120.030 ug/l

RT: 12.40 min Scan# 3305

Delta R.T. 0.10 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#03

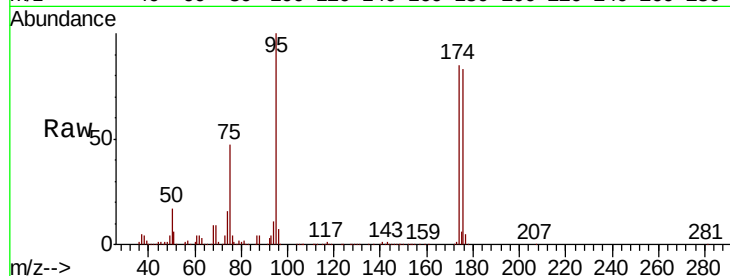
Tot Ion: 75 Resp: 331195

Ion Ratio Lower Upper

75 100

53 0.0 77.4 116.0#

89 0.0 35.4 53.2#

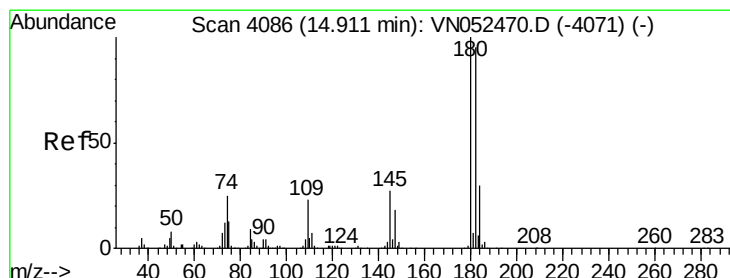
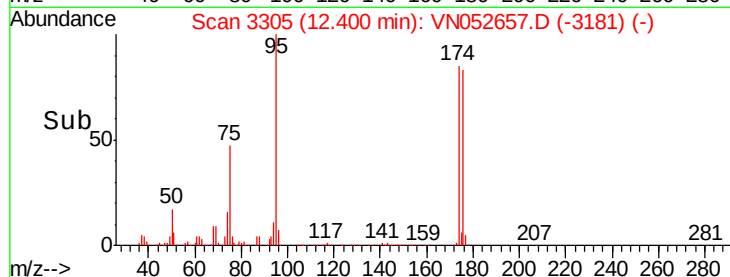
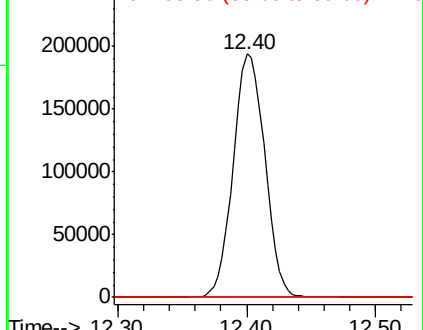


Abundance

Ion 74.90 (74.60 to 75.60): VN0

Ion 53.00 (52.70 to 53.70): VN0

Ion 88.90 (88.60 to 89.60): VN0



#93

1,2,4-Trichlorobenzene

Concen: 2.852 ug/l

RT: 14.91 min Scan# 4086

Delta R.T. 0.00 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

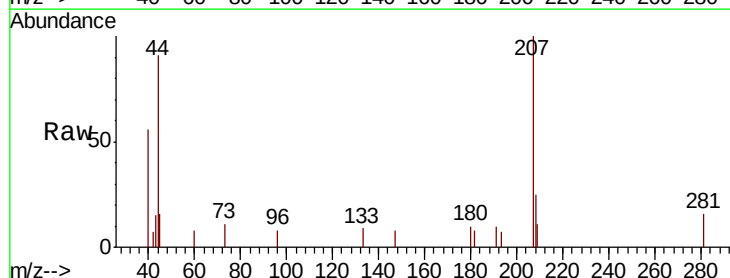
Tgt Ion: 180 Resp: 249

Ion Ratio Lower Upper

180 100

182 43.8 47.8 143.4#

145 0.0 14.1 42.3#

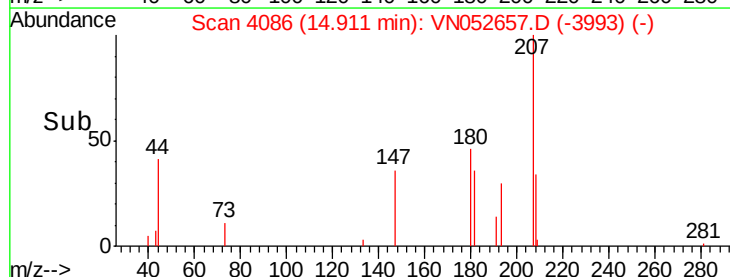
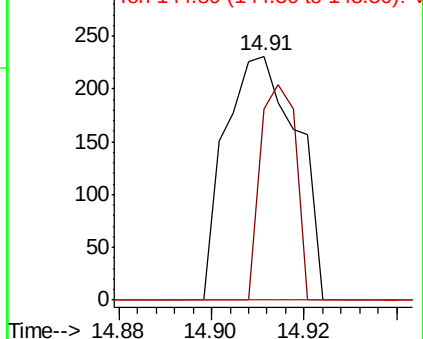


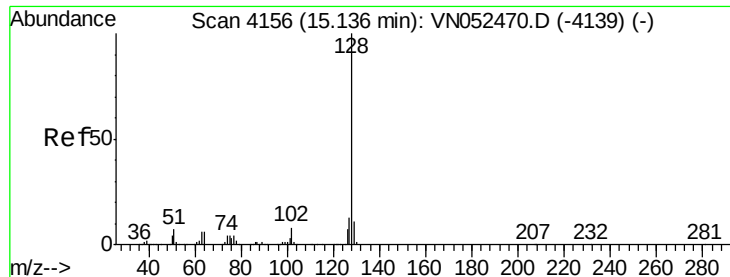
Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V





#95

Naphthalene

Concen: 3.456 ug/l

RT: 15.14 min Scan# 4156

Delta R.T. 0.00 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

Instrument :

MSVOA_N

ClientSampleId :

PB115293ZHE#03

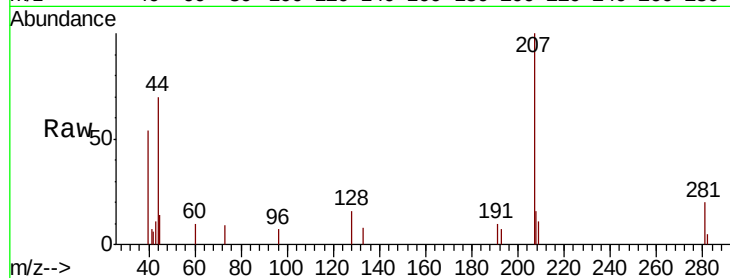
Tot Ion:128 Resp: 663

Ion Ratio Lower Upper

128 100

127 0.0 10.2 15.2#

129 0.0 8.7 13.1#

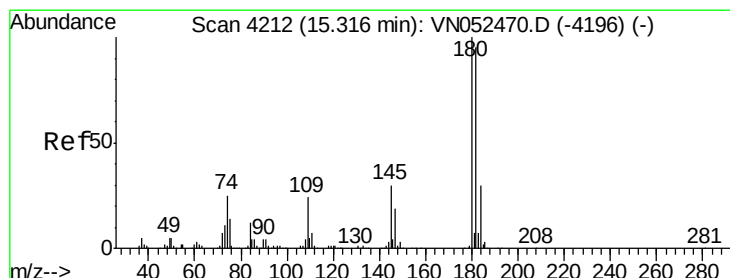
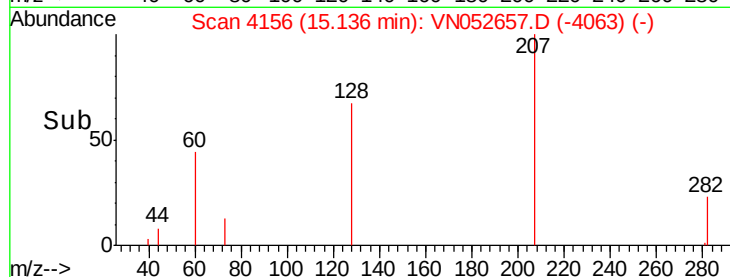
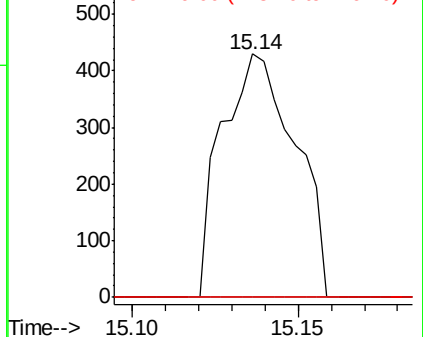


Abundance

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



#96

1,2,3-Trichlorobenzene

Concen: 2.744 ug/l

RT: 15.32 min Scan# 4212

Delta R.T. 0.00 min

Lab File: VN052657.D

Acq: 4 Dec 2018 16:27

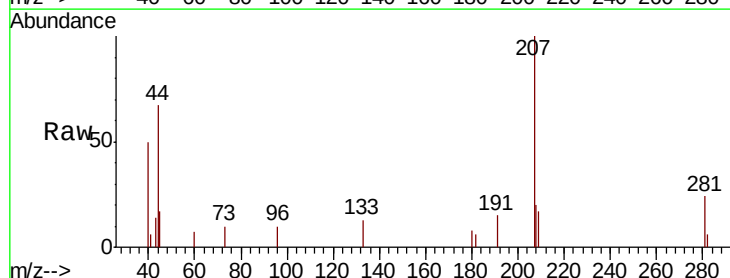
Tgt Ion:180 Resp: 179

Ion Ratio Lower Upper

180 100

182 17.9 47.8 143.3#

145 0.0 15.2 45.5#



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

