

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN042220\
 Data File : VN061136.D
 Acq On : 22 Apr 2020 18:46
 Operator : JC/MD
 Sample : L2330-10
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-SO-2020-04-16

Quant Time: Apr 29 13:43:43 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N042220W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 22 15:26:40 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.40	168	196112	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.35	114	325531	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.21	117	305455	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.15	152	149108	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.77	65	120734	46.43	ug/l	0.00
Spiked Amount			Recovery	=	92.86%	
35) Dibromofluoromethane	7.31	113	67403	36.28	ug/l	0.00
Spiked Amount			Recovery	=	72.56%	
50) Toluene-d8	9.88	98	396299	49.78	ug/l	0.00
Spiked Amount			Recovery	=	99.56%	
62) 4-Bromofluorobenzene	12.21	95	151130	50.69	ug/l	0.00
Spiked Amount			Recovery	=	101.38%	

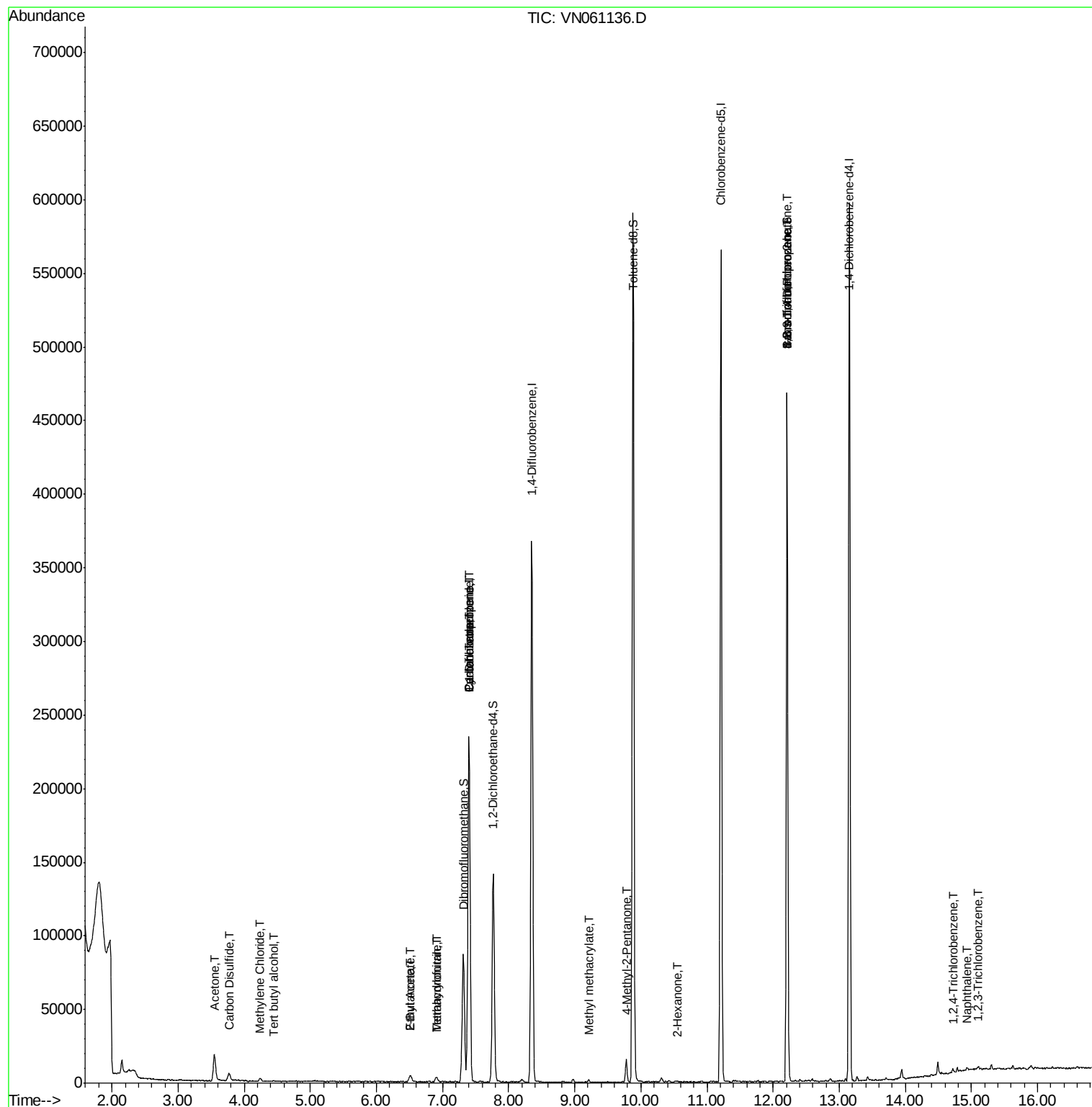
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.44	59	351	1.05	ug/l	# 72
14) Allyl chloride	3.96	41	152	Below	Cal	# 20
16) Acetone	3.55	43	29740	20.77	ug/l	98
17) Carbon Disulfide	3.79	76	1255	0.21	ug/l	# 75
20) Methylene Chloride	4.24	84	1461	0.64	ug/l	# 92
25) 2-Butanone	6.52	43	8132	5.74	ug/l	91
29) Tetrahydrofuran	6.91	42	2523	2.59	ug/l	96
31) Cyclohexane	7.40	56	4105	1.03	ug/l	# 1
36) 1,1-Dichloropropene	7.40	75	14713	4.62	ug/l	# 49
37) Ethyl Acetate	6.52	43	8132	2.55	ug/l	# 68
38) Carbon Tetrachloride	7.40	117	18966	6.81	ug/l	# 15
41) Methacrylonitrile	6.91	41	1678	1.11	ug/l	# 15
48) Methyl methacrylate	9.21	41	687	0.27	ug/l	# 24
49) 1,4-Dioxane	8.98	88	1066	Below	Cal	95
51) 4-Methyl-2-Pentanone	9.78	43	10874	3.44	ug/l	96
59) 2-Hexanone	10.56	43	558	0.24	ug/l	# 25
71) Bromoform	12.21	173	775	0.47	ug/l	# 1
76) 1,2,3-Trichloropropane	12.21	75	77403	22.50	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.21	75	77403	59.10	ug/l	# 12
93) 1,2,4-Trichlorobenzene	14.72	180	885	0.29	ug/l	# 85
95) Naphthalene	14.93	128	2004	0.21	ug/l	# 76
96) 1,2,3-Trichlorobenzene	15.10	180	619	0.21	ug/l	89

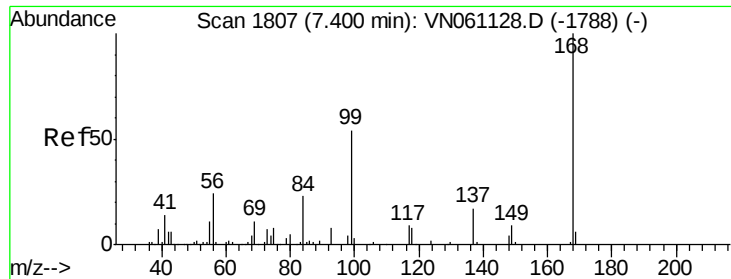
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Title : SW846 8260
QLast Update : Wed Apr 22 15:26:40 2020
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.40 min Scan# 1807

Delta R.T. 0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Instrument :

MSVOA_N

ClientSampleId :

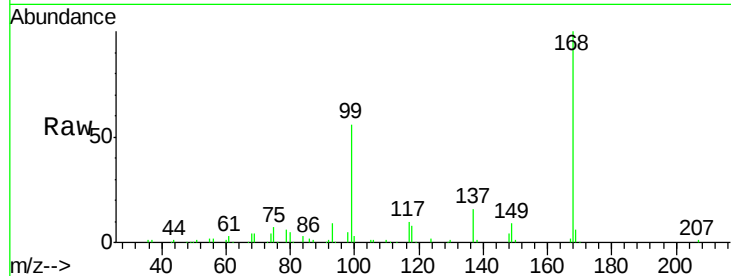
FB-SO-2020-04-16

Tgt Ion:168 Resp: 196112

Ion Ratio Lower Upper

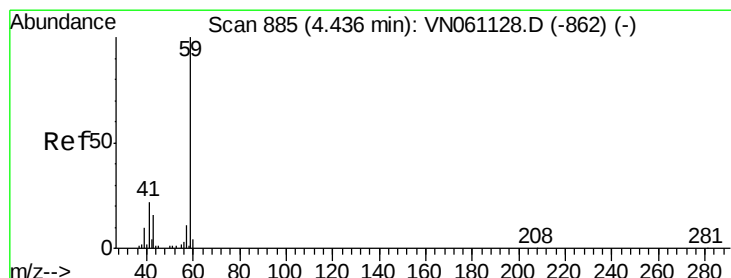
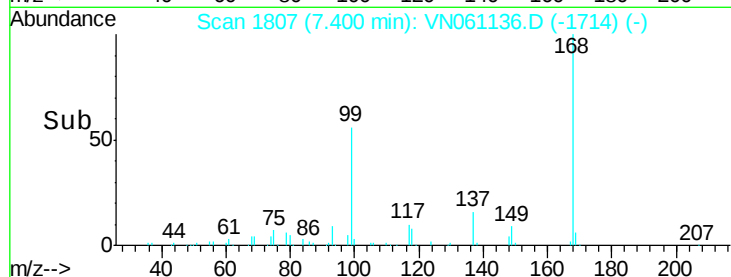
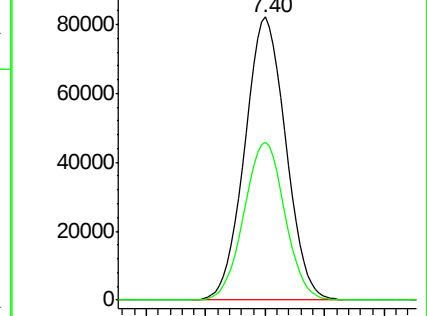
168 100

99 55.6 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#11

Tert butyl alcohol

Concen: 1.05 ug/l

RT: 4.44 min Scan# 885

Delta R.T. 0.00 min

Lab File: VN061136.D

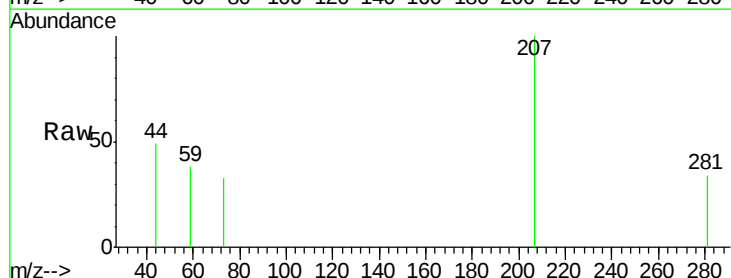
Acq: 22 Apr 2020 18:46

Tgt Ion: 59 Resp: 351

Ion Ratio Lower Upper

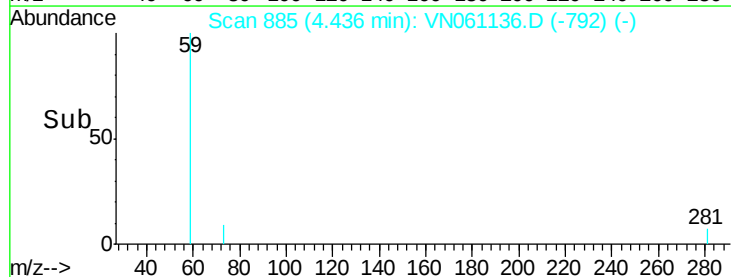
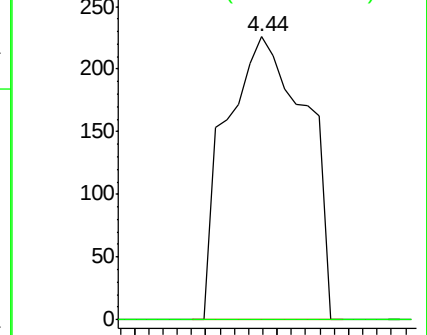
59 100

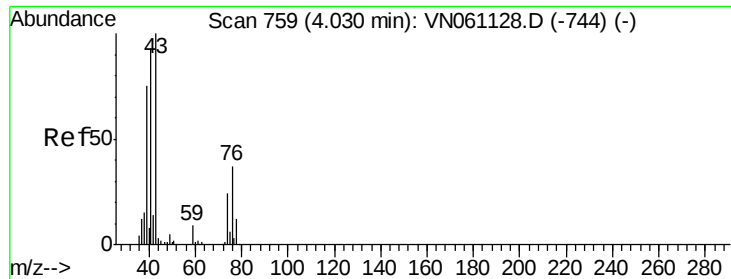
57 0.0 8.2 12.4#



Abundance Ion 59.00 (58.70 to 59.70): VNO

Ion 57.00 (56.70 to 57.70): VNO

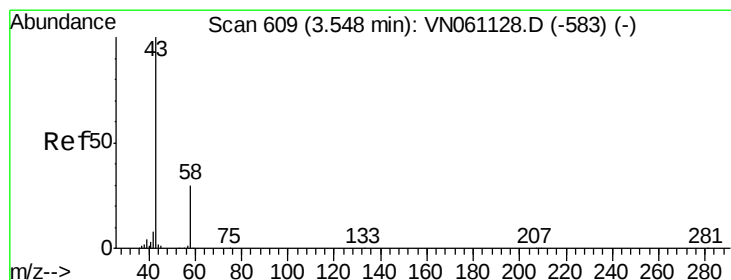
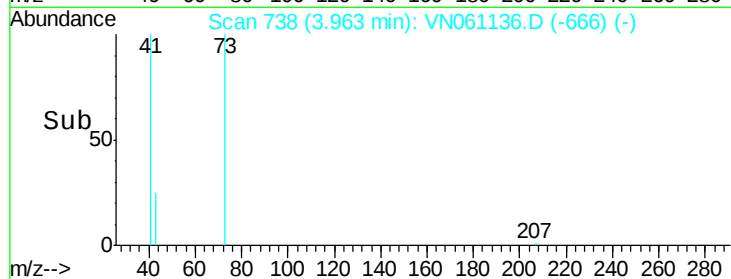
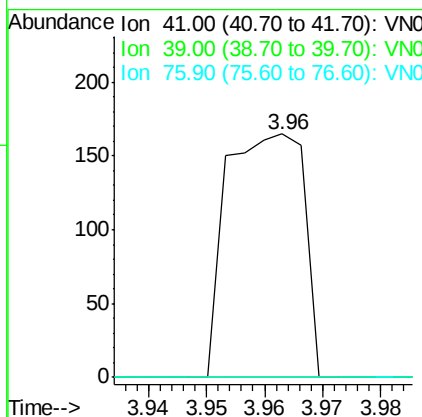
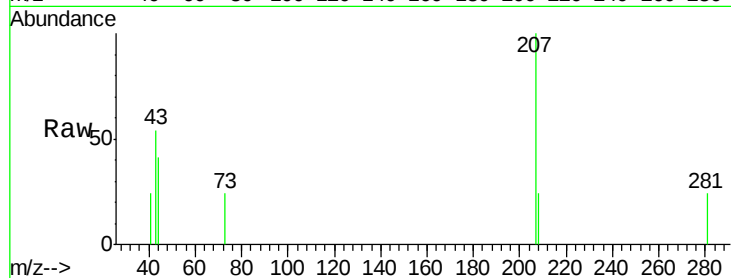




#14
 Allyl chloride
 Concen: Below Cal
 RT: 3.96 min Scan# 738
 Delta R.T. -0.07 min
 Lab File: VN061136.D
 Acq: 22 Apr 2020 18:46

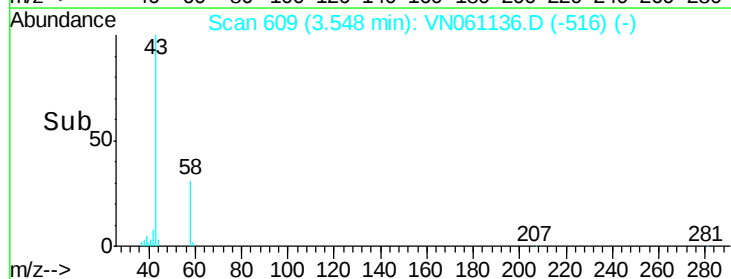
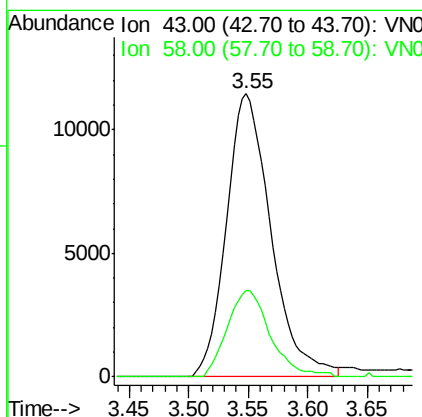
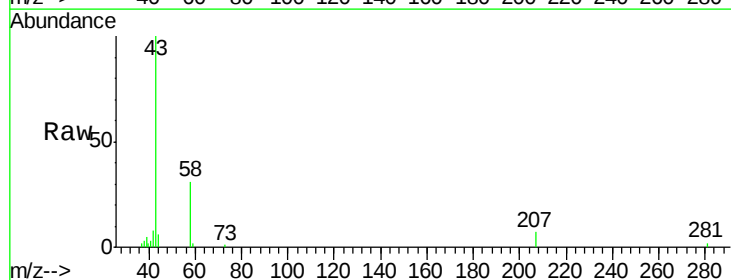
Instrument :
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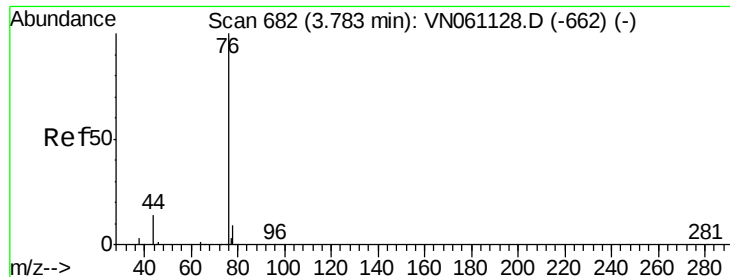
Tgt Ion: 41 Resp: 152
 Ion Ratio Lower Upper
 41 100
 39 0.0 61.0 91.4#
 76 0.0 28.9 43.3#



#16
 Acetone
 Concen: 20.77 ug/l
 RT: 3.55 min Scan# 609
 Delta R.T. 0.00 min
 Lab File: VN061136.D
 Acq: 22 Apr 2020 18:46

Tgt Ion: 43 Resp: 29740
 Ion Ratio Lower Upper
 43 100
 58 30.6 23.6 35.4

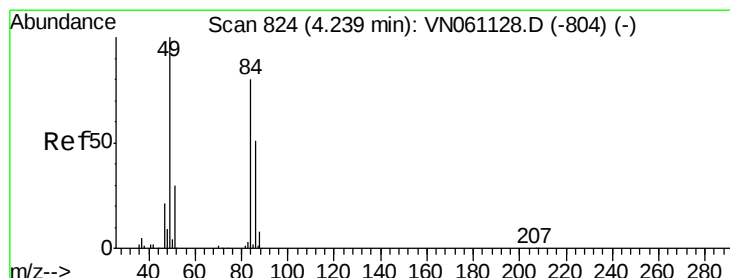
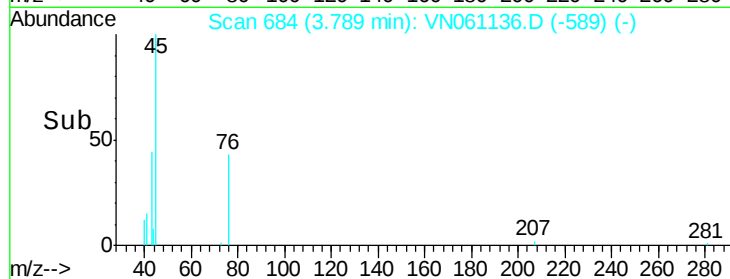
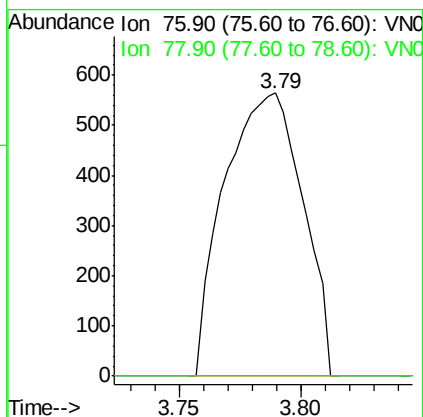
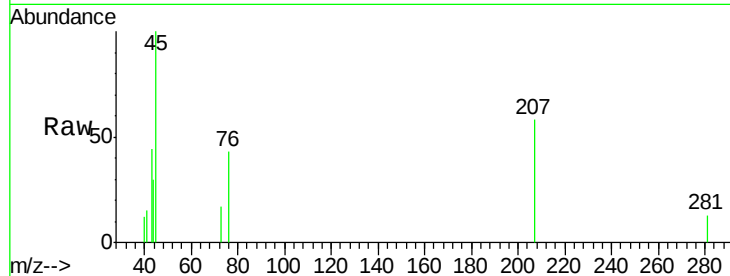




#17
Carbon Disulfide
Concen: 0.21 ug/l
RT: 3.79 min Scan# 684
Delta R.T. 0.01 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

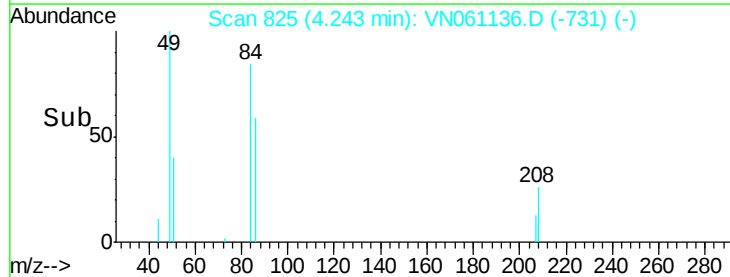
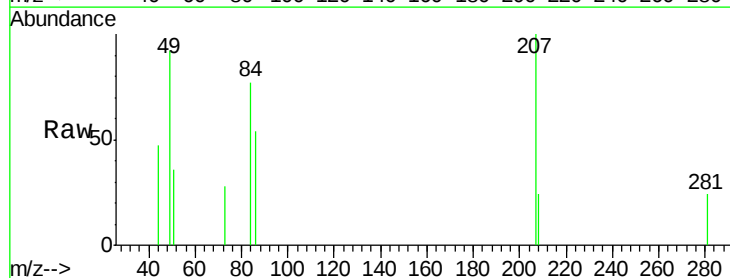
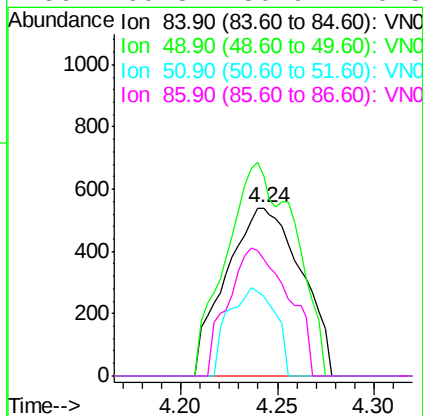
Instrument :
MSVOA_N
ClientSampleId :
FB-SO-2020-04-16

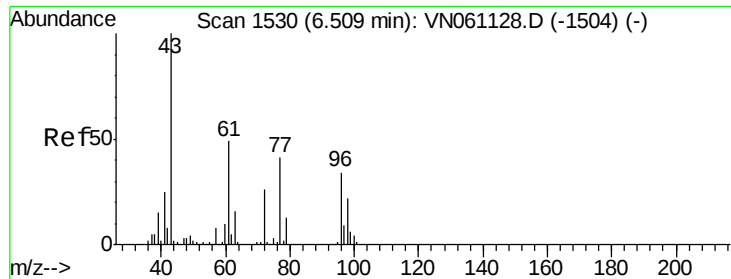
Tgt Ion: 76 Resp: 1255
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#20
Methylene Chloride
Concen: 0.64 ug/l
RT: 4.24 min Scan# 825
Delta R.T. 0.00 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Tgt Ion: 84 Resp: 1461
Ion Ratio Lower Upper
84 100
49 118.9 99.8 149.6
51 47.1 29.9 44.9#
86 69.8 50.9 76.3

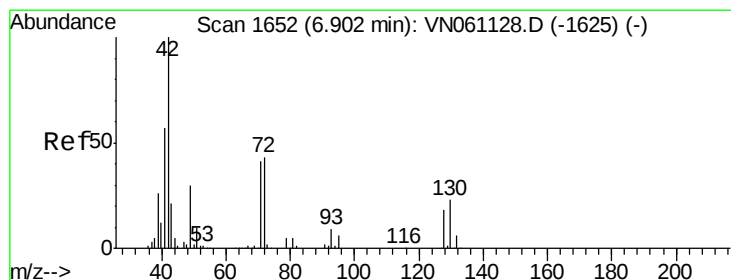
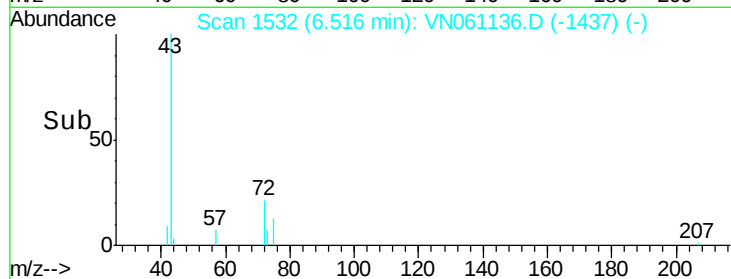
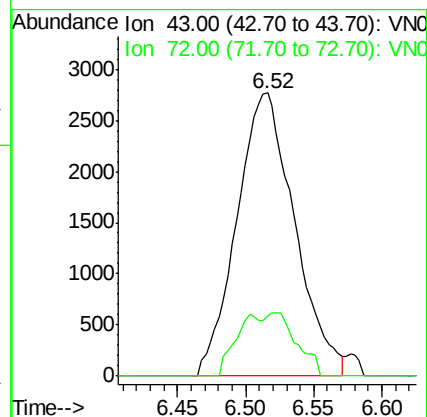
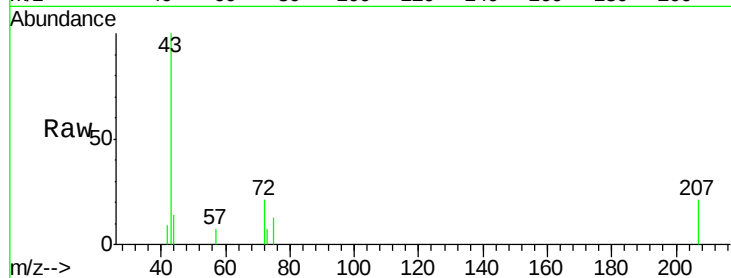




#25
 2-Butanone
 Concen: 5.74 ug/l
 RT: 6.52 min Scan# 1532
 Delta R.T. 0.01 min
 Lab File: VN061136.D
 Acq: 22 Apr 2020 18:46

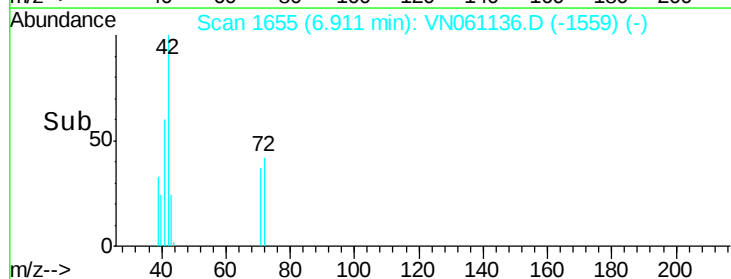
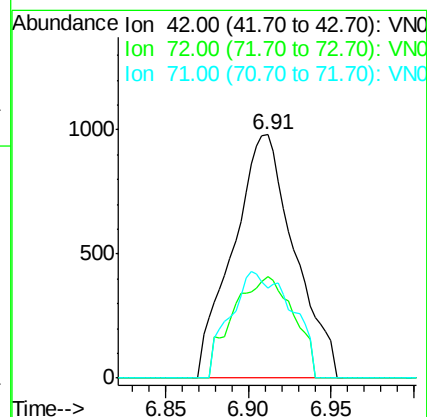
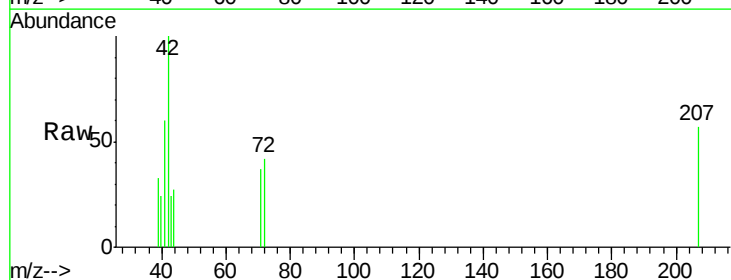
Instrument :
 MSVOA_N
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 FB-SO-2020-04-16

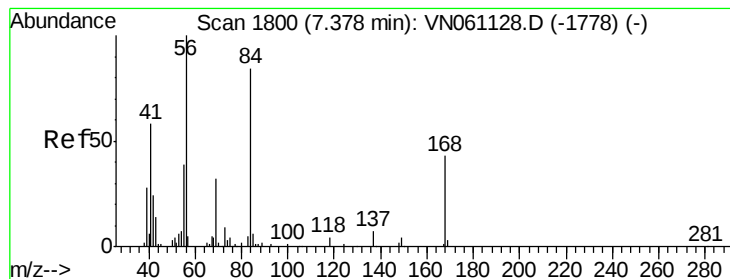
Tgt Ion: 43 Resp: 8132
 Ion Ratio Lower Upper
 43 100
 72 21.3 20.8 31.2



#29
 Tetrahydrofuran
 Concen: 2.59 ug/l
 RT: 6.91 min Scan# 1655
 Delta R.T. 0.01 min
 Lab File: VN061136.D
 Acq: 22 Apr 2020 18:46

Tgt Ion: 42 Resp: 2523
 Ion Ratio Lower Upper
 42 100
 72 41.1 35.1 52.7
 71 43.7 33.0 49.6





#31

Cyclohexane

Concen: 1.03 ug/l

RT: 7.40 min Scan# 1807

Delta R.T. 0.02 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Instrument :

MSVOA_N

ClientSampleId :

FB-SO-2020-04-16

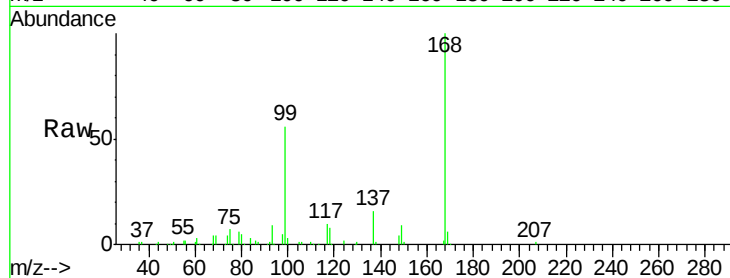
Tgt Ion: 56 Resp: 4105

Ion Ratio Lower Upper

56 100

69 174.2 25.9 38.9#

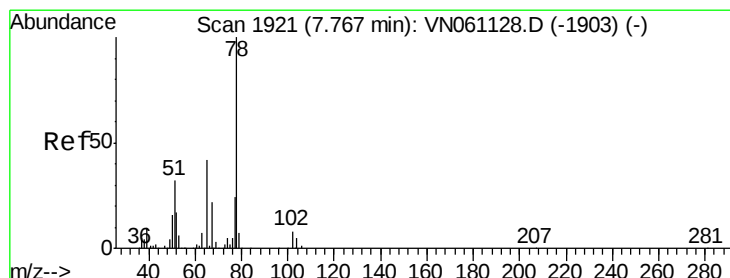
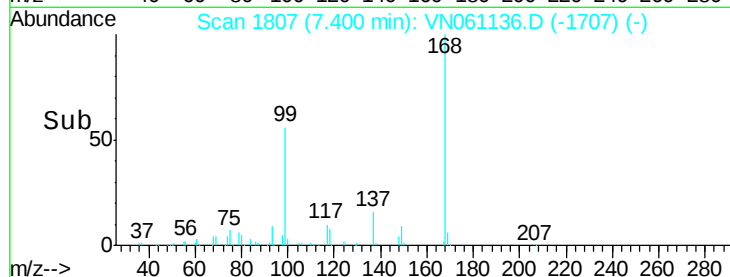
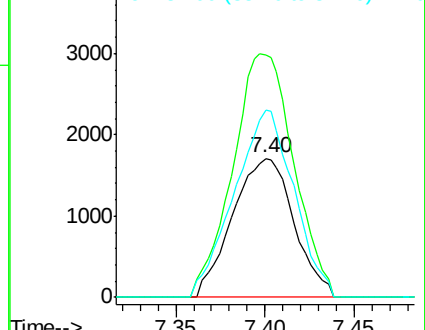
84 134.2 67.4 101.0#



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: 46.43 ug/l

RT: 7.77 min Scan# 1921

Delta R.T. 0.00 min

Lab File: VN061136.D

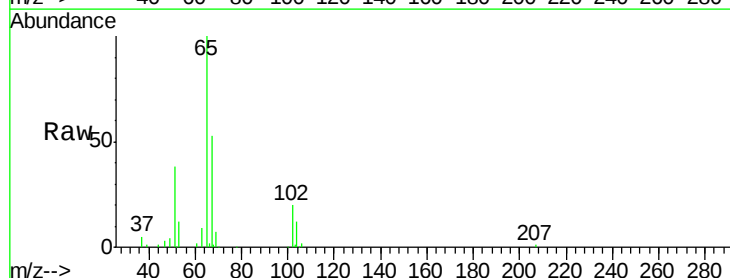
Acq: 22 Apr 2020 18:46

Tgt Ion: 65 Resp: 120734

Ion Ratio Lower Upper

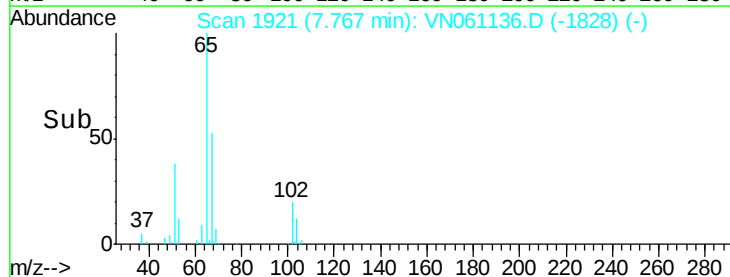
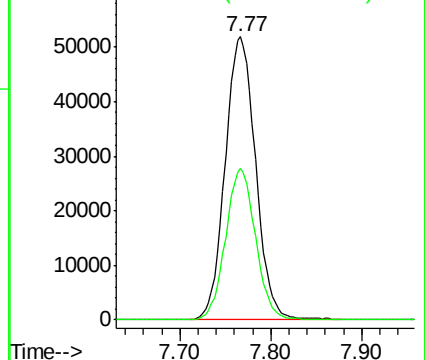
65 100

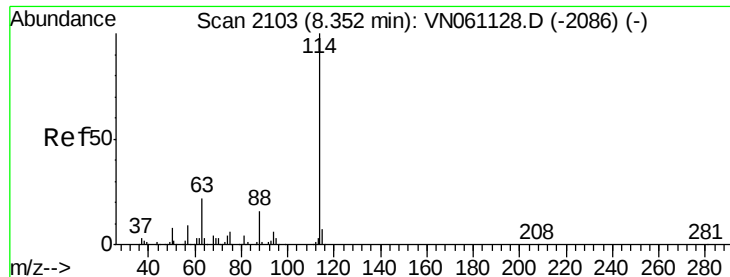
67 52.4 0.0 105.8



Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0





#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.35 min Scan# 2102

Delta R.T. -0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

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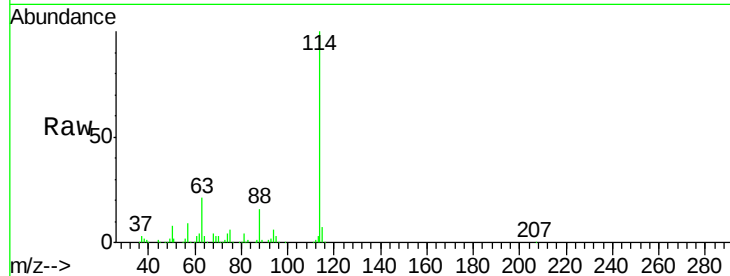
Tgt Ion:114 Resp: 325531

Ion Ratio Lower Upper

114 100

63 20.8 0.0 43.2

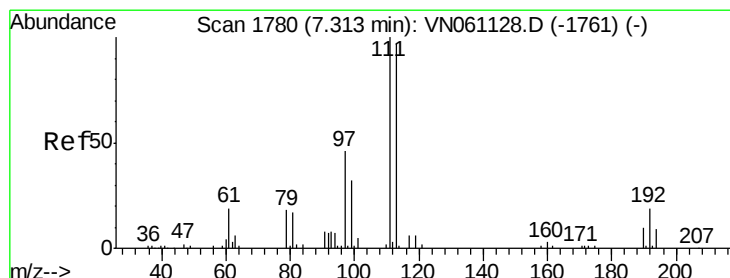
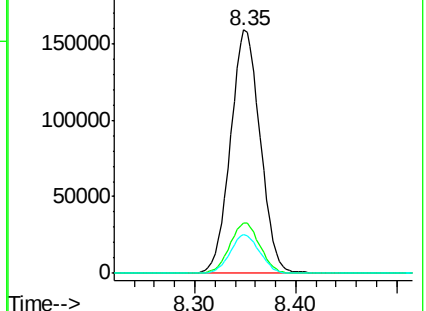
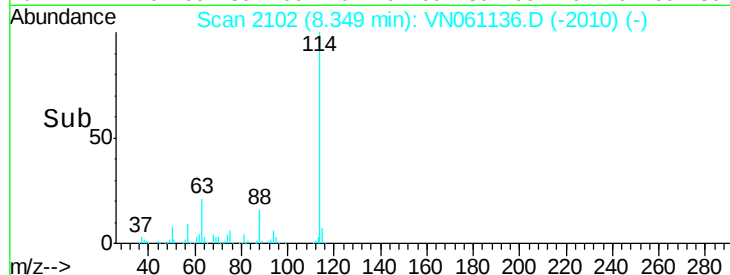
88 15.9 0.0 32.4



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: 36.28 ug/l

RT: 7.31 min Scan# 1780

Delta R.T. 0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

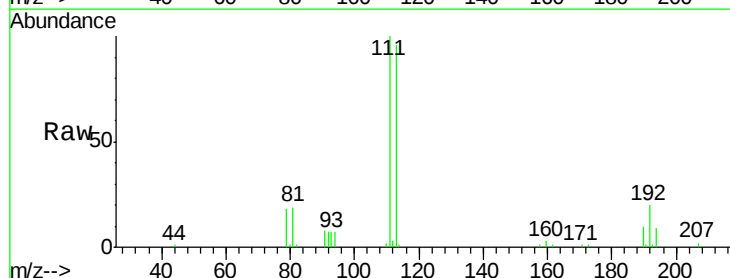
Tgt Ion:113 Resp: 67403

Ion Ratio Lower Upper

113 100

111 101.9 83.0 124.6

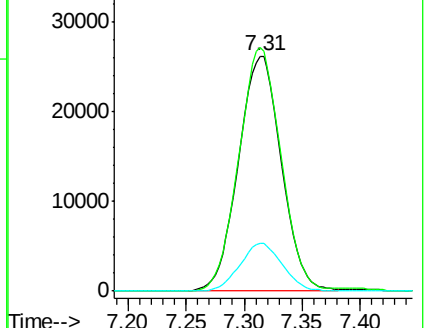
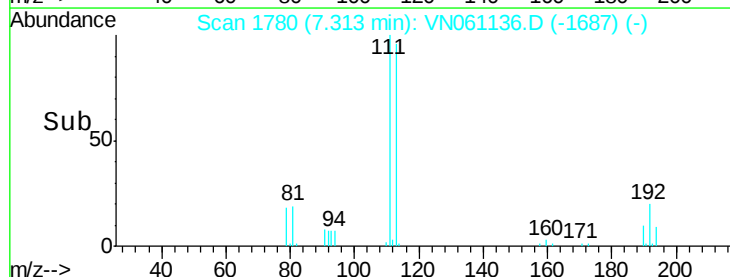
192 20.0 15.8 23.6

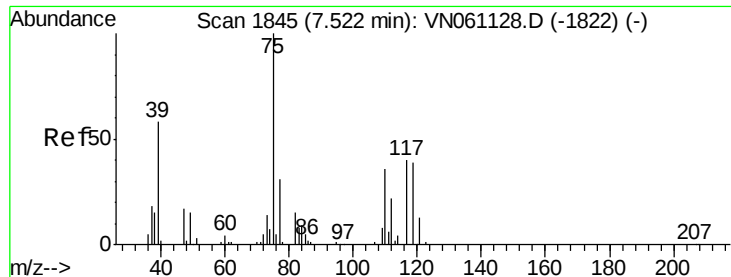


Abundance Ion 112.80 (112.50 to 113.50): V

Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V





#36

1,1-Dichloropropene

Concen: 4.62 ug/l

RT: 7.40 min Scan# 1806

Delta R.T. -0.13 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Instrument :

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ClientSampleId :

FB-SO-2020-04-16

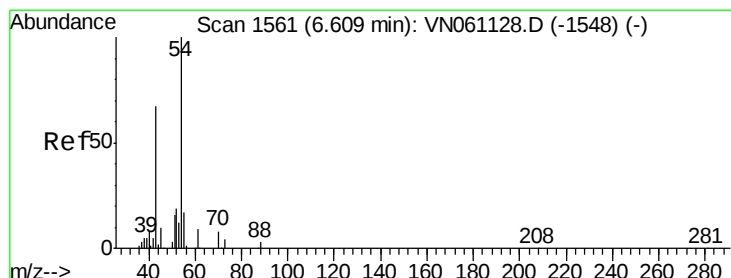
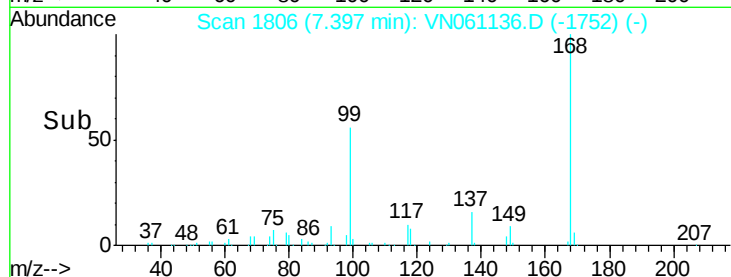
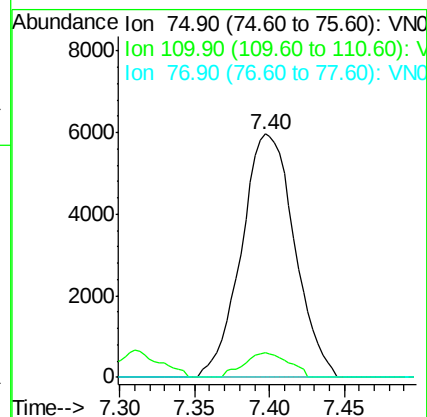
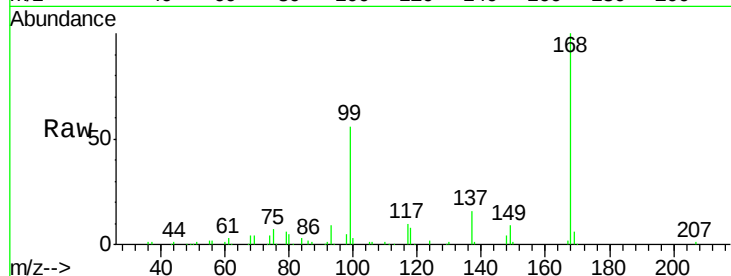
Tgt Ion: 75 Resp: 14713

Ion Ratio Lower Upper

75 100

110 8.5 17.7 53.1#

77 0.0 24.8 37.2#



#37

Ethyl Acetate

Concen: 2.55 ug/l

RT: 6.52 min Scan# 1532

Delta R.T. -0.09 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

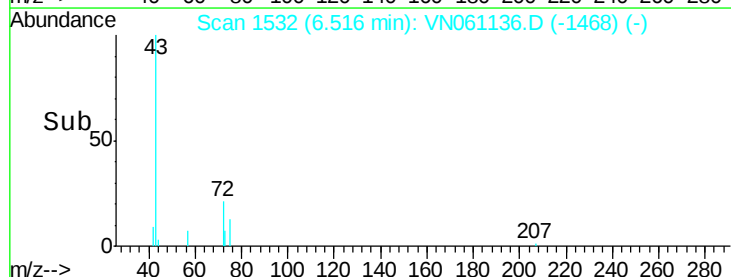
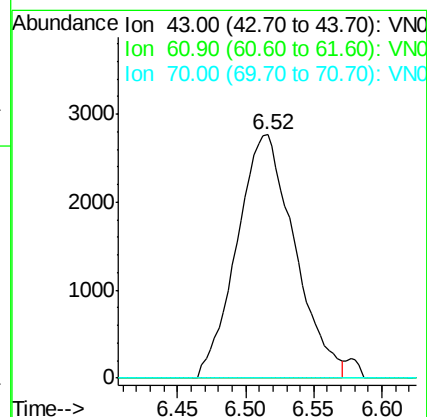
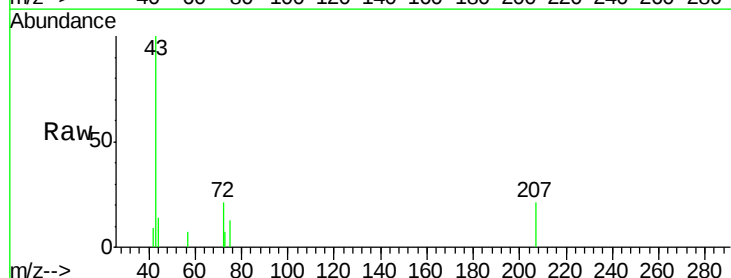
Tgt Ion: 43 Resp: 8132

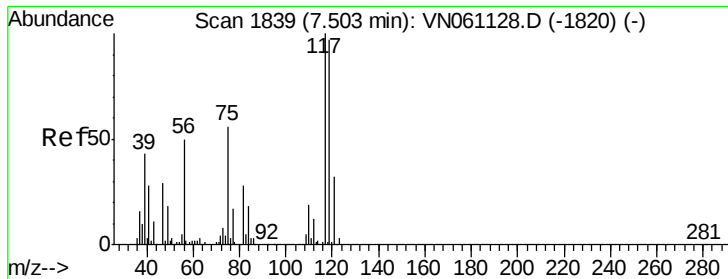
Ion Ratio Lower Upper

43 100

61 0.0 11.4 17.0#

70 0.0 8.2 12.4#

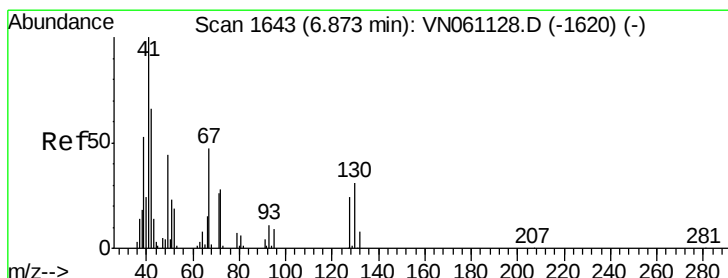
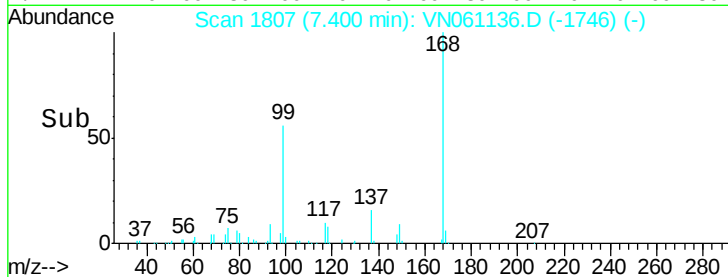
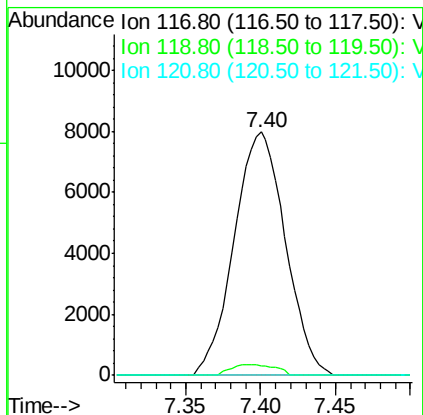
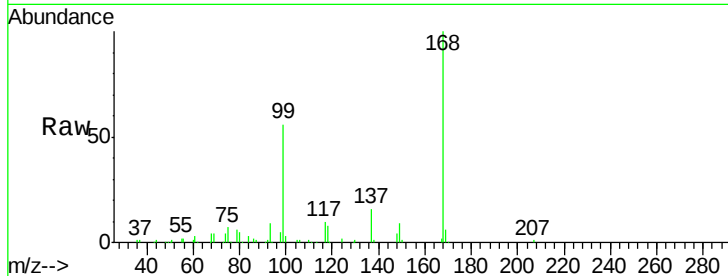




#38
Carbon Tetrachloride
Concen: 6.81 ug/l
RT: 7.40 min Scan# 1807
Delta R.T. -0.10 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

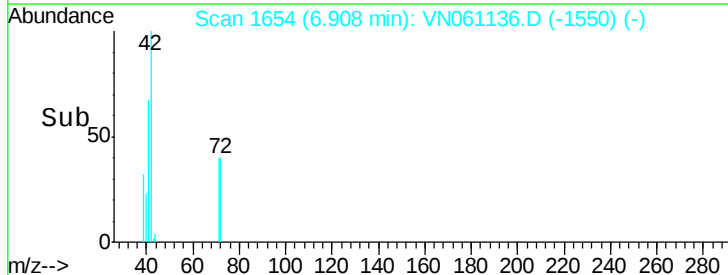
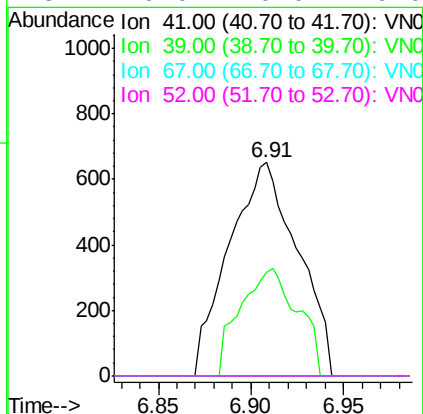
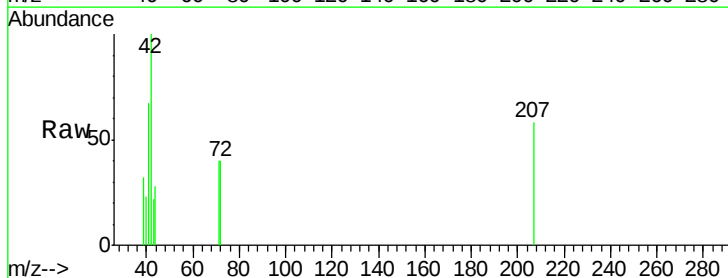
Instrument :
MSVOA_N
ClientSampleId :
FB-SO-2020-04-16

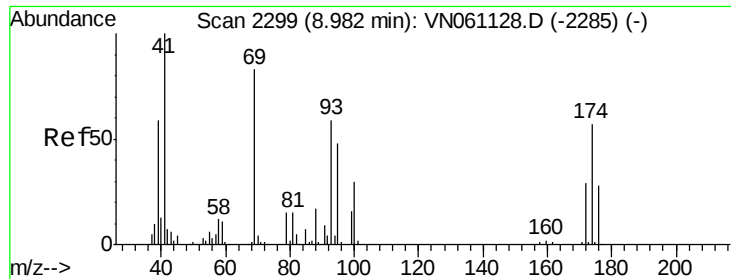
Tgt Ion:117 Resp: 18966
Ion Ratio Lower Upper
117 100
119 3.9 76.9 115.3#
121 0.0 25.0 37.6#



#41
Methacrylonitrile
Concen: 1.11 ug/l
RT: 6.91 min Scan# 1654
Delta R.T. 0.04 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Tgt Ion: 41 Resp: 1678
Ion Ratio Lower Upper
41 100
39 41.9 119.4 179.0#
67 0.0 0.0 0.0
52 0.0 0.0 0.0

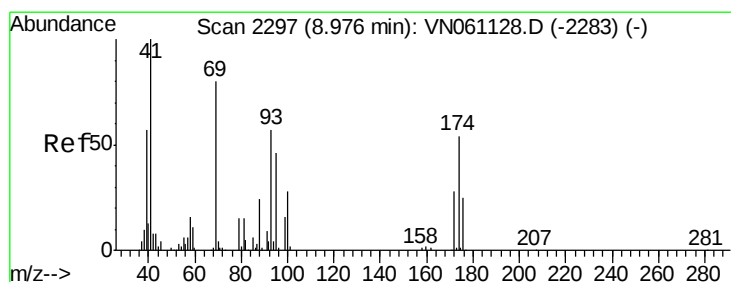
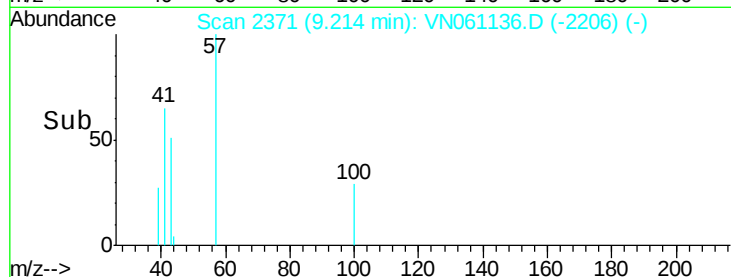
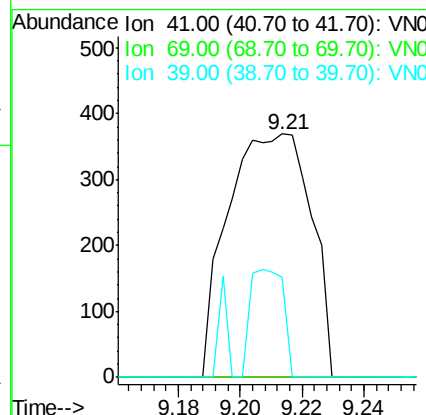
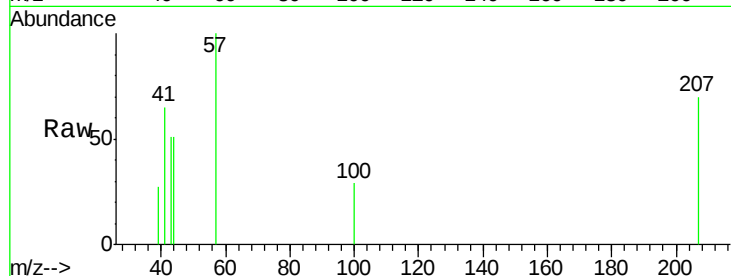




#48
Methyl methacrylate
Concen: 0.27 ug/l
RT: 9.21 min Scan# 2371
Delta R.T. 0.23 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

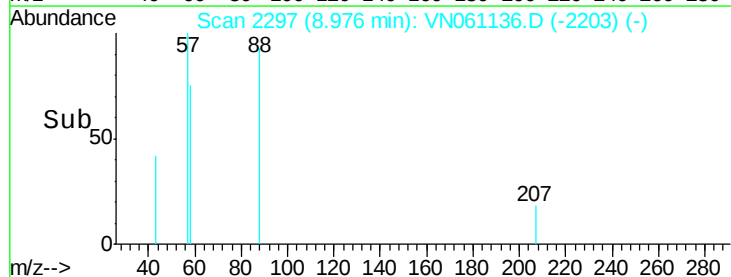
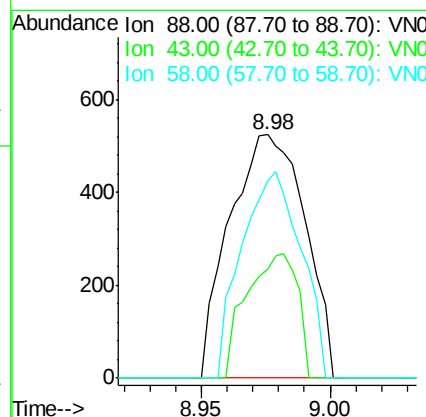
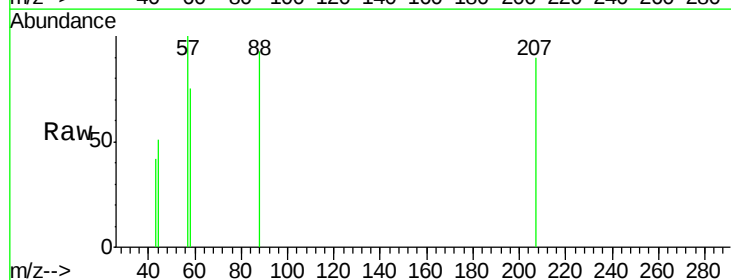
Instrument :
MSVOA_N
ClientSampleId :
FB-SO-2020-04-16

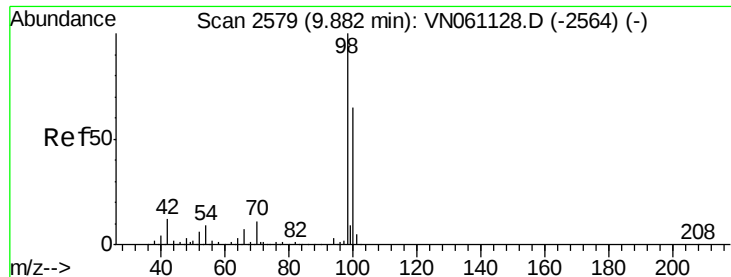
Tgt Ion: 41 Resp: 687
Ion Ratio Lower Upper
41 100
69 0.0 65.4 98.2#
39 17.8 47.8 71.6#



#49
1,4-Dioxane
Concen: Below Cal
RT: 8.98 min Scan# 2297
Delta R.T. 0.00 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Tgt Ion: 88 Resp: 1066
Ion Ratio Lower Upper
88 100
43 34.7 29.0 43.4
58 67.0 57.8 86.6





#50

Toluene-d8

Concen: 49.78 ug/l

RT: 9.88 min Scan# 2579

Delta R.T. 0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Instrument :

MSVOA_N

ClientSampleId :

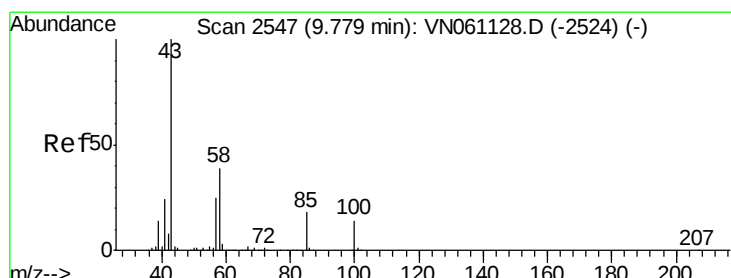
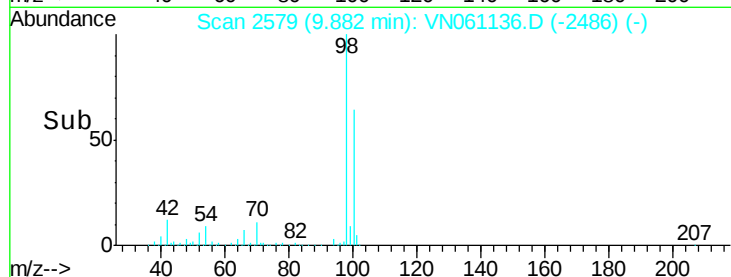
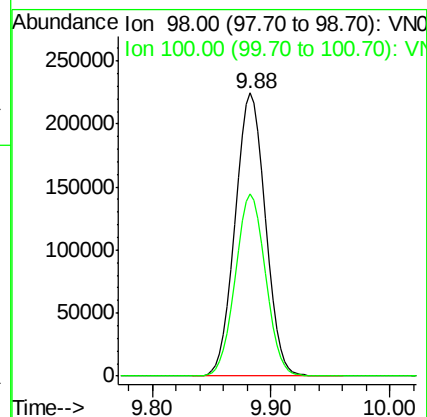
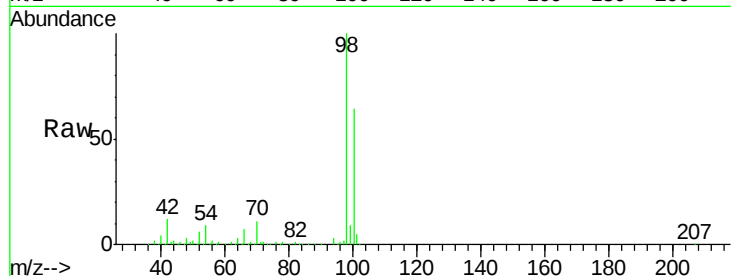
FB-SO-2020-04-16

Tgt Ion: 98 Resp: 396299

Ion Ratio Lower Upper

98 100

100 64.3 51.8 77.6



#51

4-Methyl-2-Pentanone

Concen: 3.44 ug/l

RT: 9.78 min Scan# 2547

Delta R.T. 0.00 min

Lab File: VN061136.D

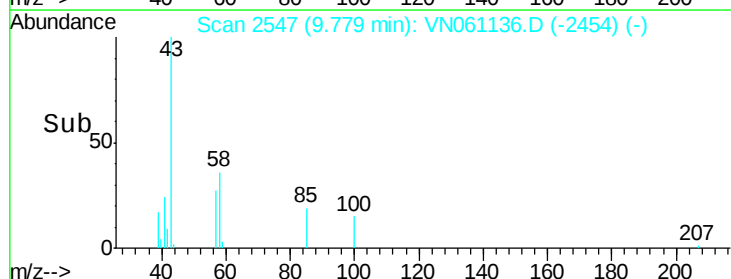
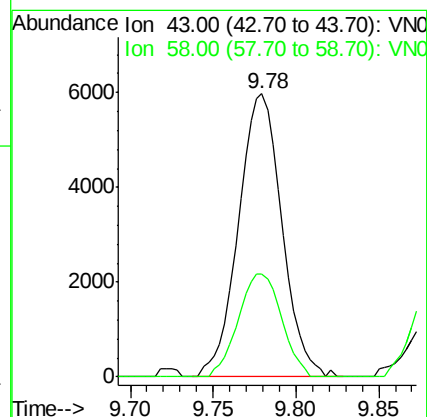
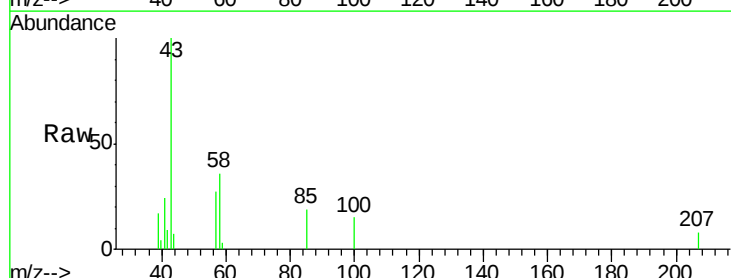
Acq: 22 Apr 2020 18:46

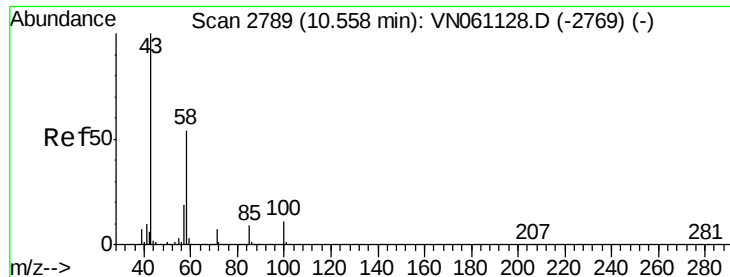
Tgt Ion: 43 Resp: 10874

Ion Ratio Lower Upper

43 100

58 36.2 31.0 46.6

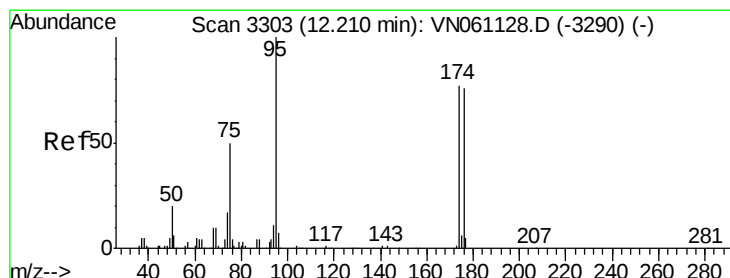
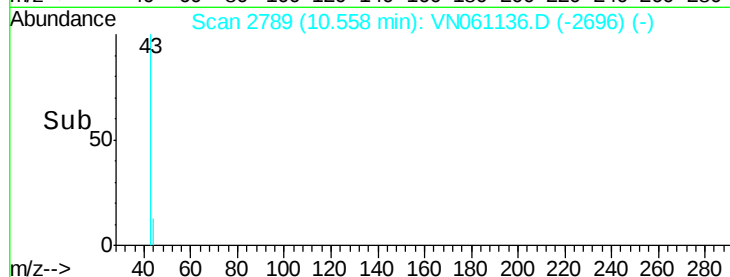
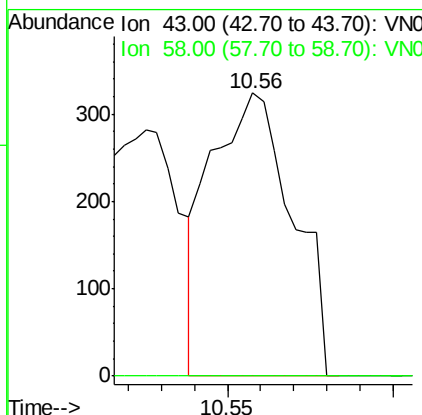
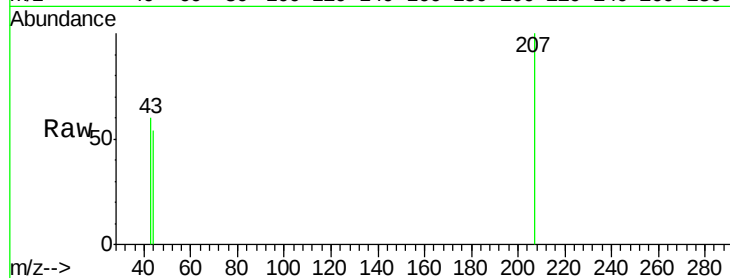




#59
2-Hexanone
Concen: 0.24 ug/l
RT: 10.56 min Scan# 2789
Delta R.T. 0.00 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

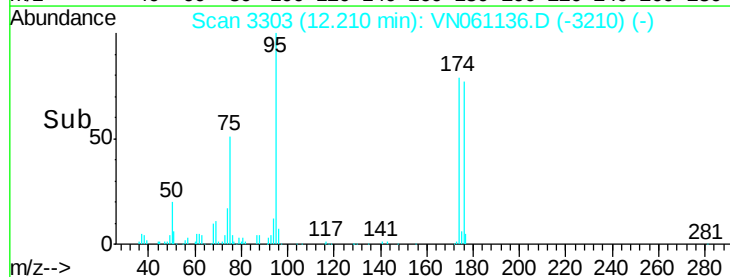
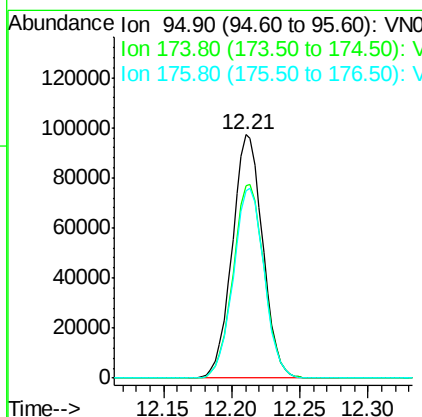
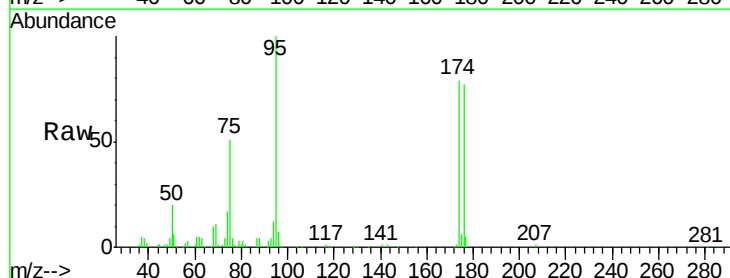
Instrument :
MSVOA_N
ClientSampleId :
FB-SO-2020-04-16

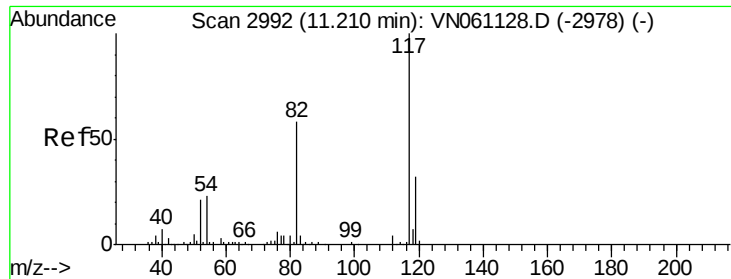
Tgt Ion: 43 Resp: 558
Ion Ratio Lower Upper
43 100
58 0.0 26.9 80.6#



#62
4-Bromofluorobenzene
Concen: 50.69 ug/l
RT: 12.21 min Scan# 3303
Delta R.T. 0.00 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Tgt Ion: 95 Resp: 151130
Ion Ratio Lower Upper
95 100
174 81.1 0.0 157.6
176 78.6 0.0 154.4

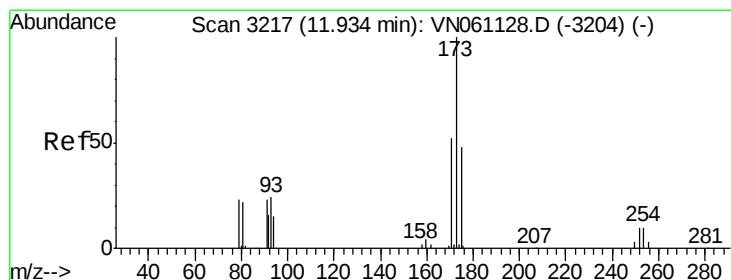
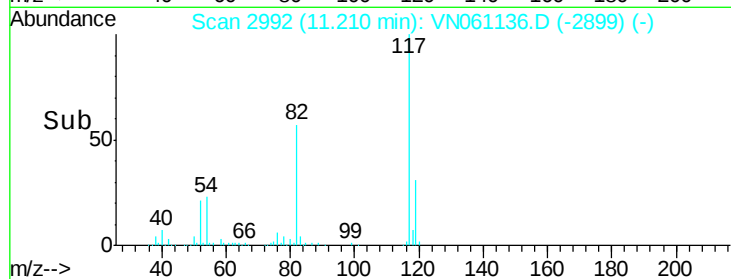
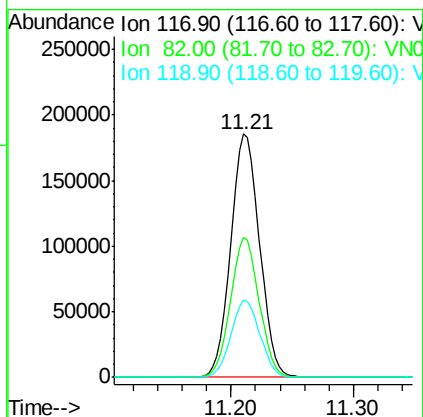
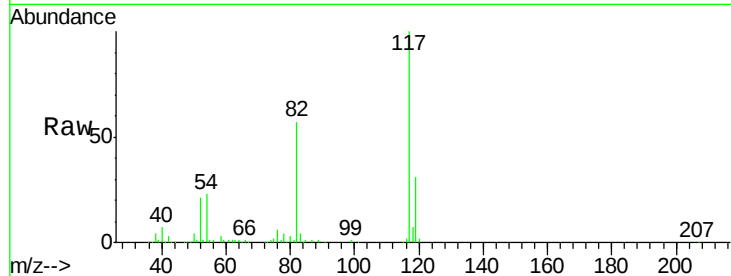




#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.21 min Scan# 2992
Delta R.T. 0.00 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

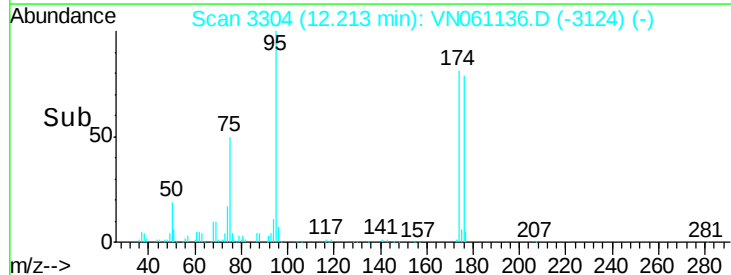
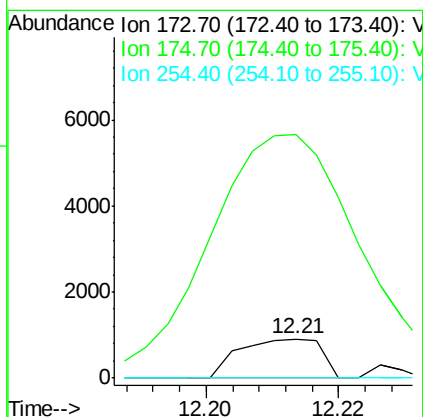
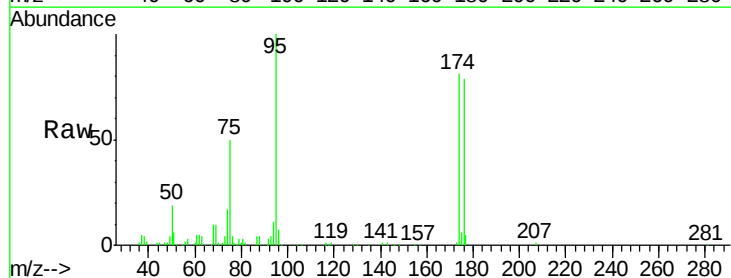
Instrument :
MSVOA_N
ClientSampleId :
FB-SO-2020-04-16

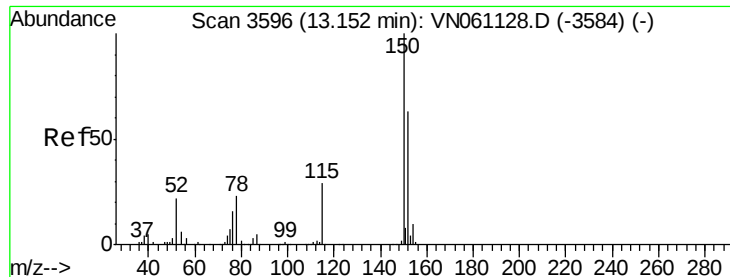
Tgt Ion:117 Resp: 305455
Ion Ratio Lower Upper
117 100
82 57.3 46.0 69.0
119 31.5 25.9 38.9



#71
Bromoform
Concen: 0.47 ug/l
RT: 12.21 min Scan# 3304
Delta R.T. 0.28 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Tgt Ion:173 Resp: 775
Ion Ratio Lower Upper
173 100
175 954.1 23.9 71.8#
254 0.0 0.0 0.0





#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.15 min Scan# 3596

Delta R.T. 0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Instrument :

MSVOA_N

ClientSampleId :

FB-SO-2020-04-16

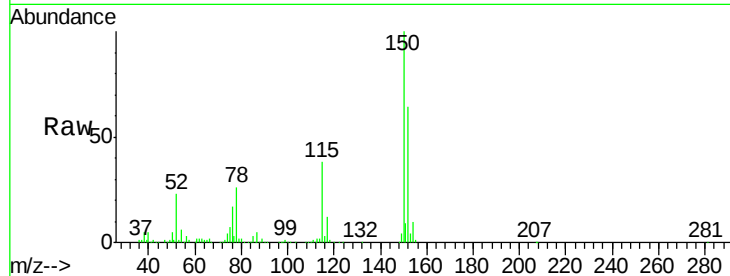
Tgt Ion:152 Resp: 149108

Ion Ratio Lower Upper

152 100

115 58.1 29.8 89.5

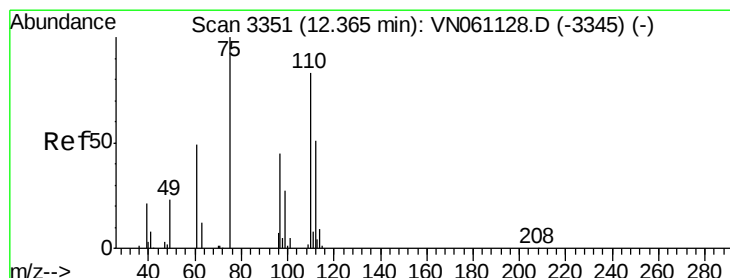
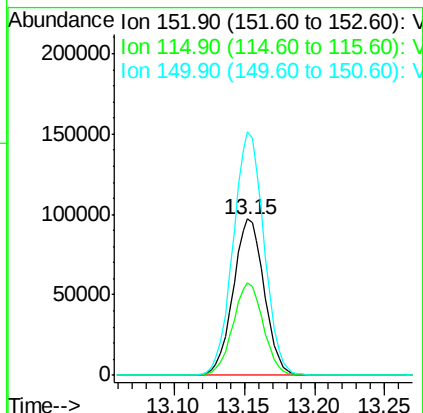
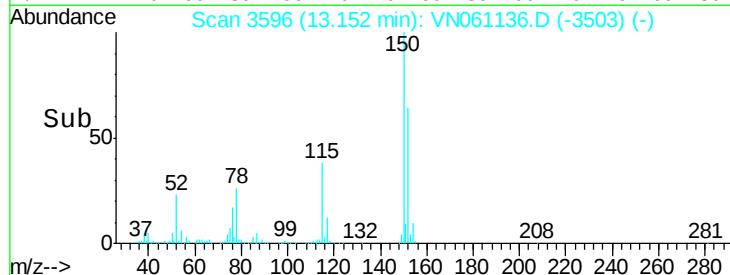
150 155.4 0.0 348.6



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: 22.50 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. -0.15 min

Lab File: VN061136.D

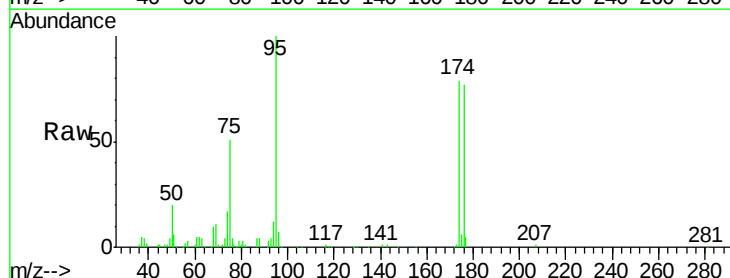
Acq: 22 Apr 2020 18:46

Tgt Ion: 75 Resp: 77403

Ion Ratio Lower Upper

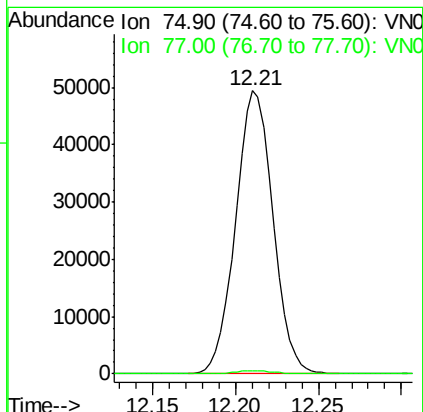
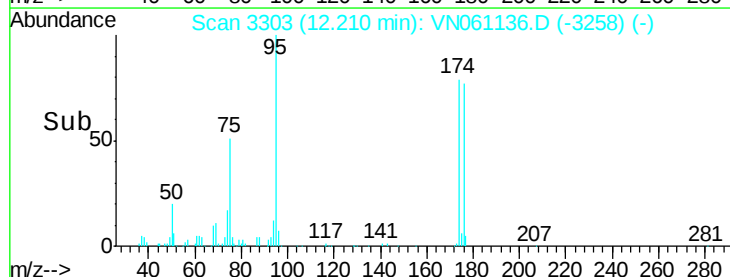
75 100

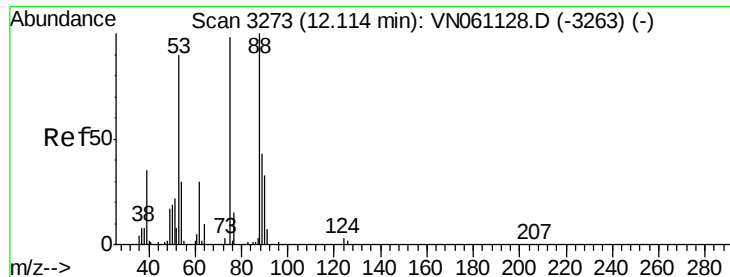
77 1.0 0.0 0.0#



Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0





#81

trans-1,4-Dichloro-2-butene

Concen: 59.10 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. 0.10 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

Instrument :

MSVOA_N

ClientSampleId :

FB-SO-2020-04-16

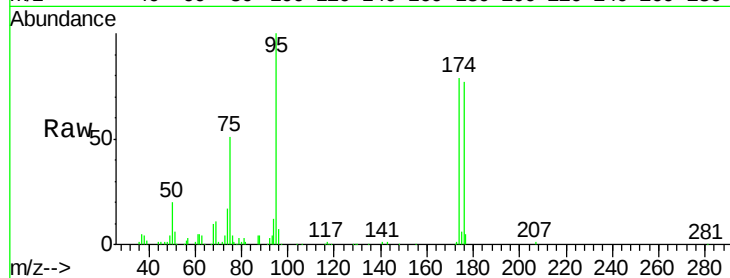
Tgt Ion: 75 Resp: 77403

Ion Ratio Lower Upper

75 100

53 0.0 74.3 111.5#

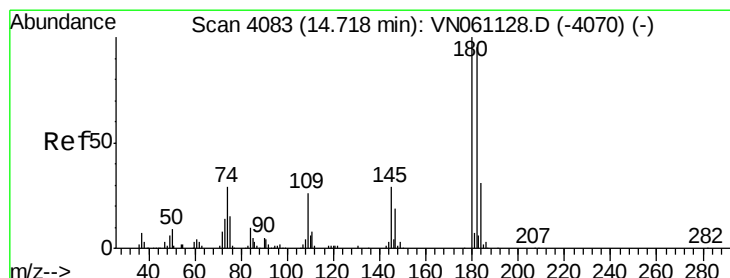
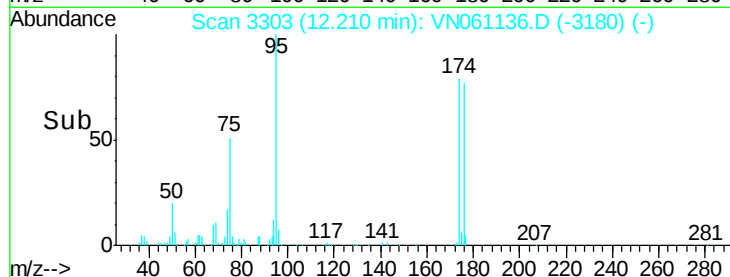
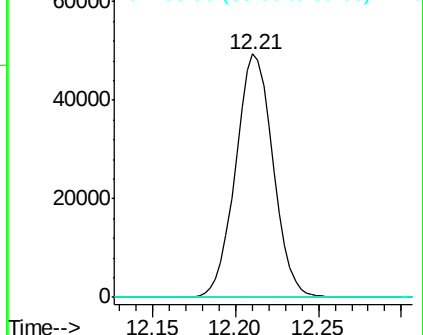
89 0.0 36.6 55.0#



Abundance Ion 74.90 (74.60 to 75.60): VN061136.D (-3180) (-)

Ion 53.00 (52.70 to 53.70): VN061136.D (-3180) (-)

Ion 88.90 (88.60 to 89.60): VN061136.D (-3180) (-)



#93

1,2,4-Trichlorobenzene

Concen: 0.29 ug/l

RT: 14.72 min Scan# 4083

Delta R.T. 0.00 min

Lab File: VN061136.D

Acq: 22 Apr 2020 18:46

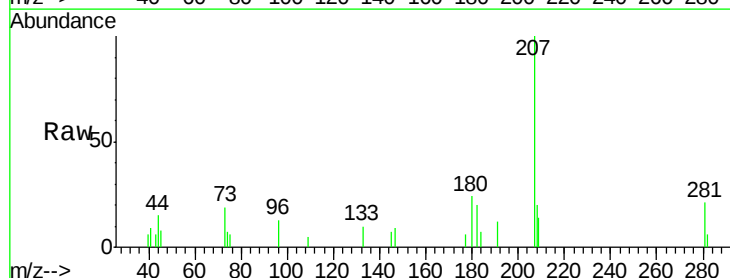
Tgt Ion: 180 Resp: 885

Ion Ratio Lower Upper

180 100

182 87.7 47.9 143.7

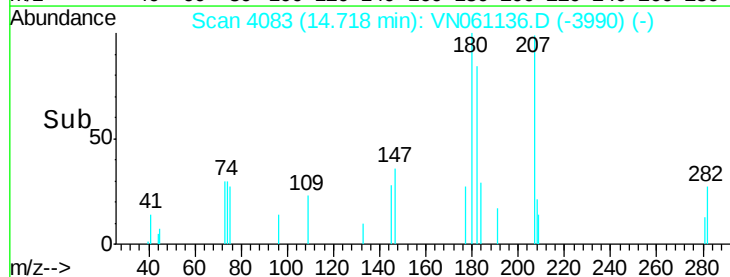
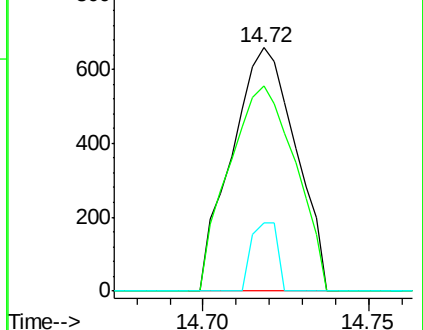
145 11.4 15.2 45.5#

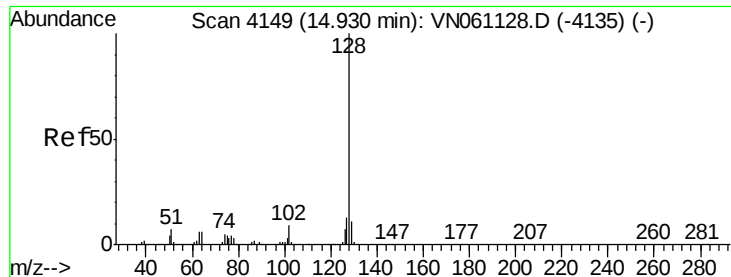


Abundance Ion 179.80 (179.50 to 180.50): VN061136.D (-3990) (-)

Ion 181.80 (181.50 to 182.50): VN061136.D (-3990) (-)

Ion 144.80 (144.50 to 145.50): VN061136.D (-3990) (-)

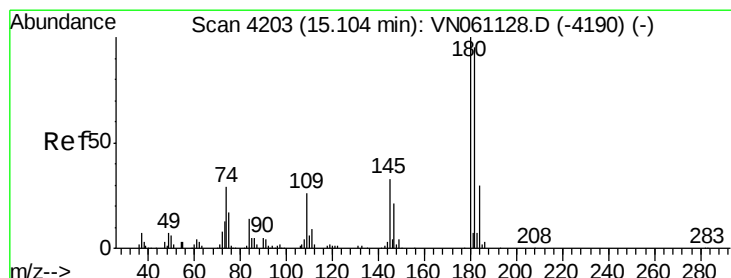
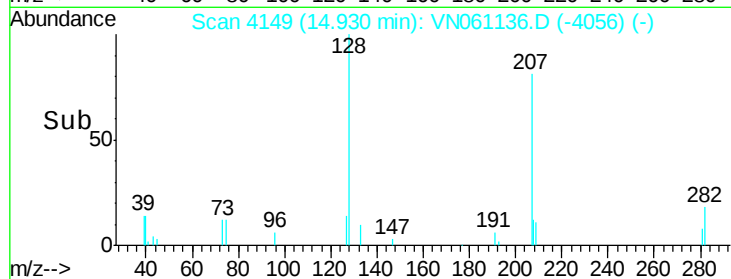
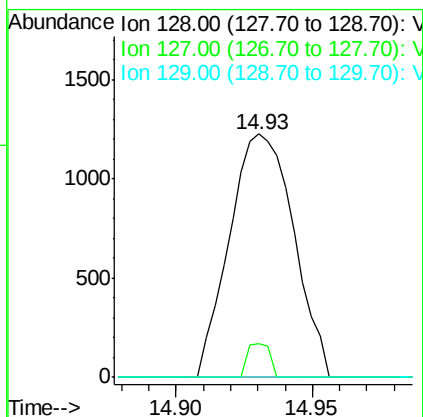
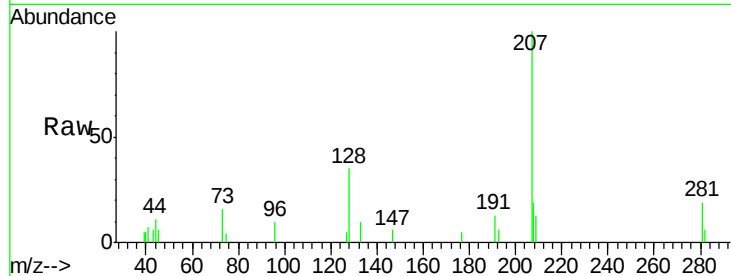




#95
Naphthalene
Concen: 0.21 ug/l
RT: 14.93 min Scan# 4149
Delta R.T. 0.00 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Instrument :
MSVOA_N
ClientSampleId :
FB-SO-2020-04-16

Tgt Ion:128 Resp: 2004
Ion Ratio Lower Upper
128 100
127 4.7 10.2 15.4#
129 0.0 8.6 12.8#



#96
1,2,3-Trichlorobenzene
Concen: 0.21 ug/l
RT: 15.10 min Scan# 4203
Delta R.T. 0.00 min
Lab File: VN061136.D
Acq: 22 Apr 2020 18:46

Tgt Ion:180 Resp: 619
Ion Ratio Lower Upper
180 100
182 100.3 47.7 143.1
145 16.5 16.3 48.8

