

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_N\DATA\VN042220\
 Data File : VN061135.D
 Acq On : 22 Apr 2020 18:24
 Operator : JC/MD
 Sample : L2271-14
 Misc : 5.00mL/MSVOA_N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-2020-04-13

Quant Time: Apr 29 13:43:26 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	174576	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.35	114	284000	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.21	117	267185	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.15	152	125007	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	106971	46.21	ug/l	0.00
Spiked Amount			Recovery	=	92.42%	
35) Dibromofluoromethane	7.32	113	80573	49.71	ug/l	0.00
Spiked Amount			Recovery	=	99.42%	
50) Toluene-d8	9.88	98	343276	49.43	ug/l	0.00
Spiked Amount			Recovery	=	98.86%	
62) 4-Bromofluorobenzene	12.21	95	132544	50.96	ug/l	0.00
Spiked Amount			Recovery	=	101.92%	

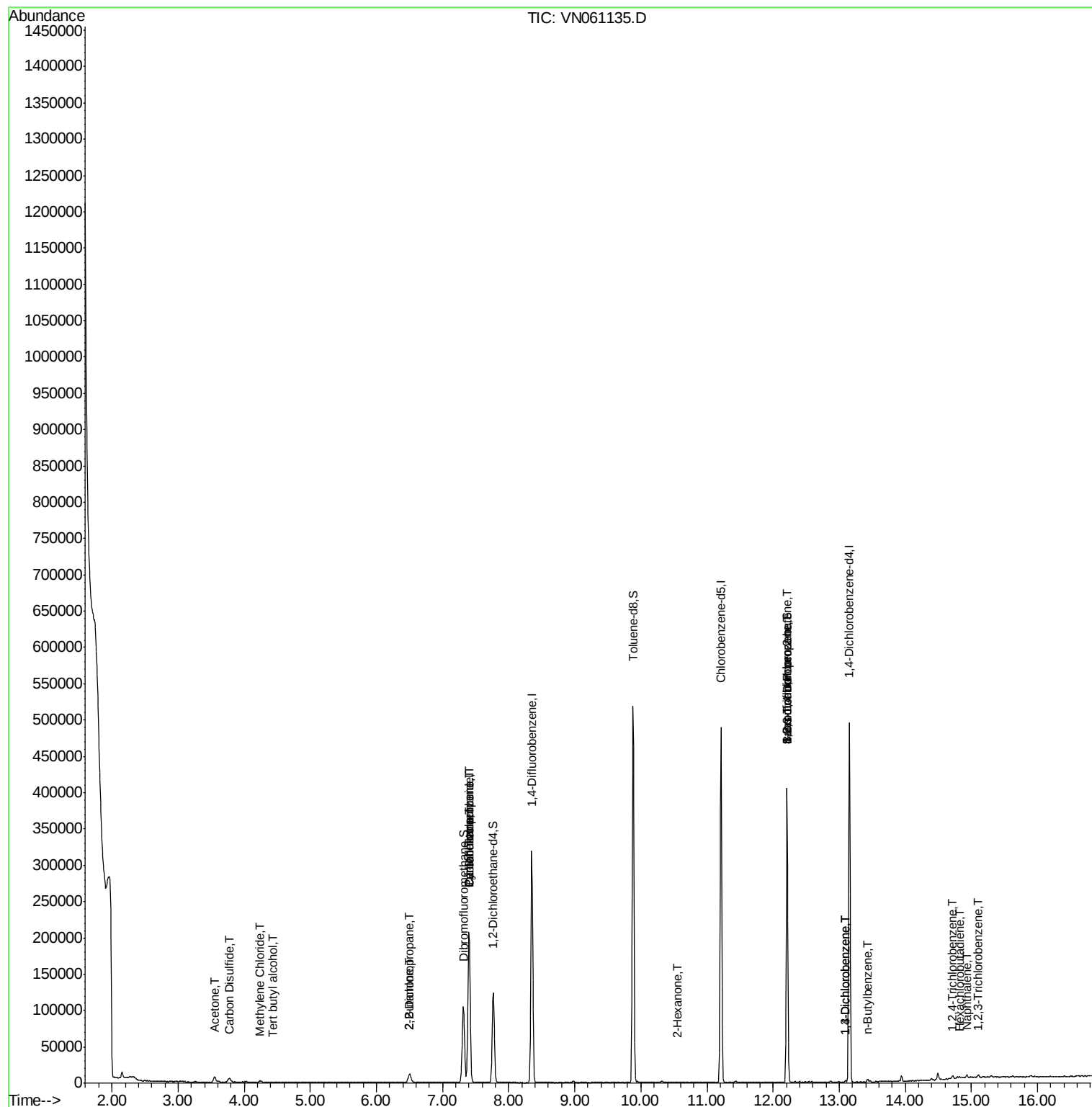
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
11) Tert butyl alcohol	4.43	59	60	0.20	ug/l	# 72
14) Allyl chloride	4.03	41	62	Below	Cal	# 20
16) Acetone	3.55	43	12466	2.01	ug/l	100
17) Carbon Disulfide	3.79	76	1979	0.38	ug/l	# 75
18) Methyl Acetate	3.86	43	109	Below	Cal	# 51
20) Methylene Chloride	4.24	84	698	0.35	ug/l	# 85
25) 2-Butanone	6.49	43	342	0.27	ug/l	# 49
26) 2,2-Dichloropropane	6.50	77	779	0.24	ug/l	# 53
31) Cyclohexane	7.40	56	3606	1.01	ug/l	# 1
36) 1,1-Dichloropropene	7.40	75	13207	4.76	ug/l	# 48
38) Carbon Tetrachloride	7.40	117	16774	6.90	ug/l	# 16
49) 1,4-Dioxane	8.97	88	1460	Below	Cal	# 84
59) 2-Hexanone	10.56	43	832	0.41	ug/l	# 25
71) Bromoform	12.21	173	634	0.44	ug/l	# 1
76) 1,2,3-Trichloropropane	12.21	75	67378	23.37	ug/l	# 100
81) trans-1,4-Dichloro-2-buten	12.21	75	67378	61.37	ug/l	# 12
87) 1,3-Dichlorobenzene	13.09	146	983	0.24	ug/l	87
88) 1,4-Dichlorobenzene	13.09	146	983	0.24	ug/l	88
89) n-Butylbenzene	13.43	91	2308	0.31	ug/l	97
93) 1,2,4-Trichlorobenzene	14.71	180	1382	0.54	ug/l	97
94) Hexachlorobutadiene	14.82	225	628	0.57	ug/l	96
95) Naphthalene	14.93	128	3676	0.47	ug/l	# 91
96) 1,2,3-Trichlorobenzene	15.11	180	1182	0.48	ug/l	98

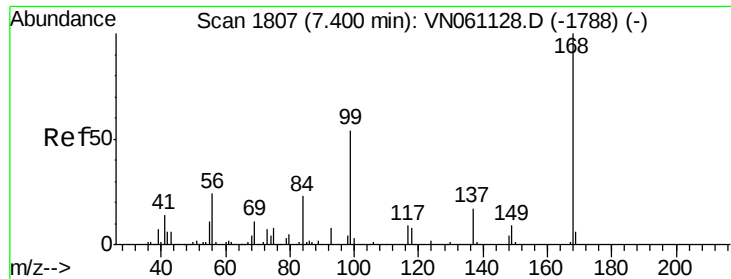
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_N\DATA\VN042220\
Data File : VN061135.D
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Instrument :
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Quant Time: Apr 29 13:43:26 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_N\METHODS\82N042220W.M
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: VN061135.D

Acq: 22 Apr 2020 18:24

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MSVOA_N

ClientSampleId :

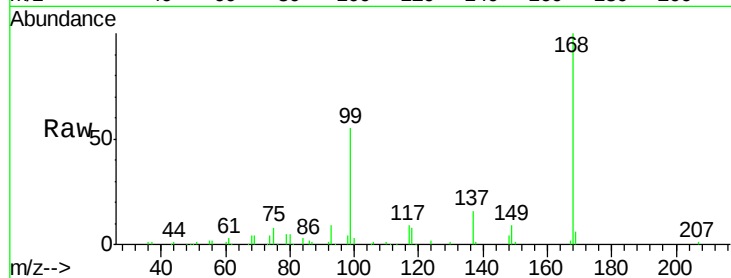
FB-2020-04-13

Tgt Ion:168 Resp: 174576

Ion Ratio Lower Upper

168 100

99 54.7 44.3 66.5



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.40

60000

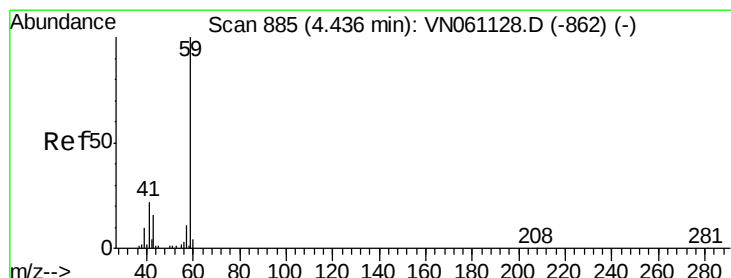
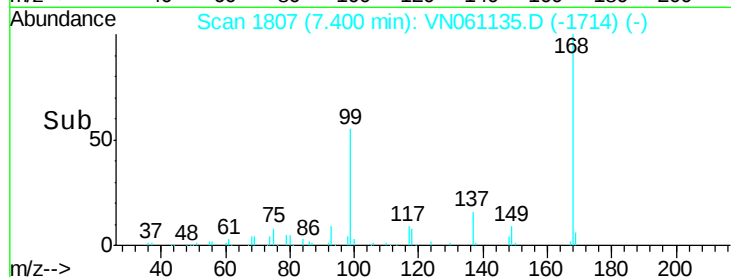
40000

20000

0

Time-->

7.30 7.35 7.40 7.45 7.50



#11

Tert butyl alcohol

Concen: 0.20 ug/l

RT: 4.43 min Scan# 884

Delta R.T. -0.00 min

Lab File: VN061135.D

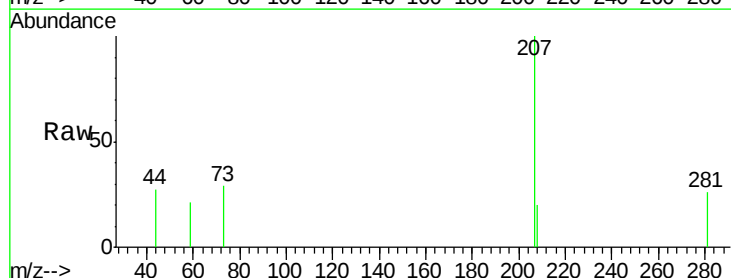
Acq: 22 Apr 2020 18:24

Tgt Ion: 59 Resp: 60

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

4.43

150

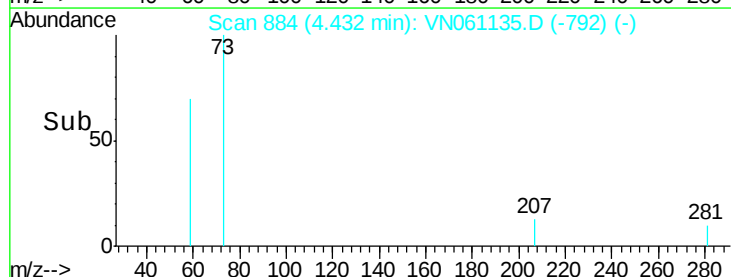
100

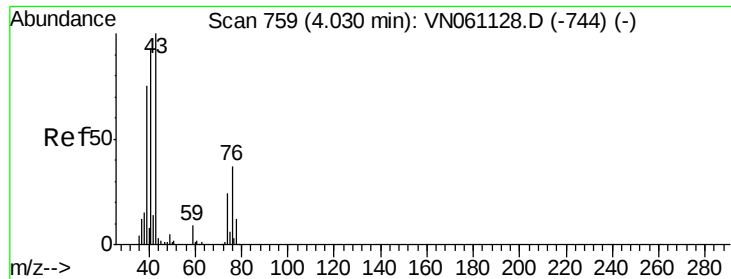
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0

Time-->

4.42 4.43 4.44

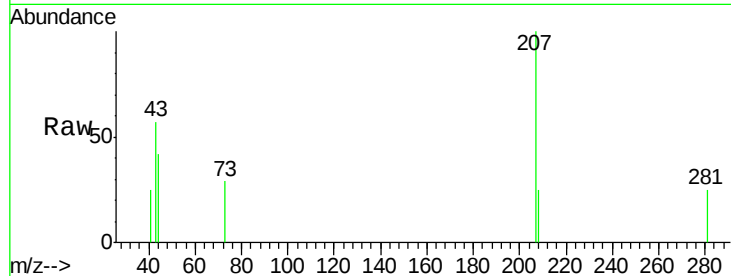




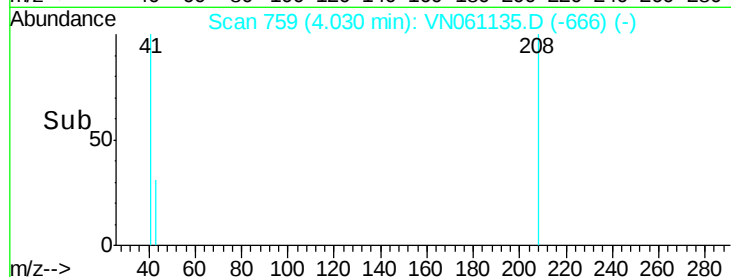
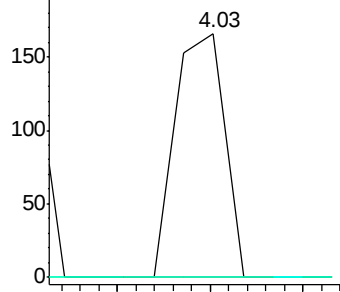
#14
 Allyl chloride
 Concen: Below Cal
 RT: 4.03 min Scan# 759
 Delta R.T. 0.00 min
 Lab File: VN061135.D
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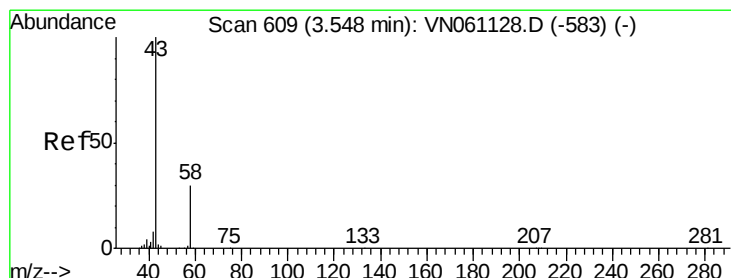
Tgt Ion: 41 Resp: 62
 Ion Ratio Lower Upper
 41 100
 39 0.0 61.0 91.4#
 76 0.0 28.9 43.3#



Abundance Ion 41.00 (40.70 to 41.70): VNO
 Ion 39.00 (38.70 to 39.70): VNO
 Ion 75.90 (75.60 to 76.60): VNO

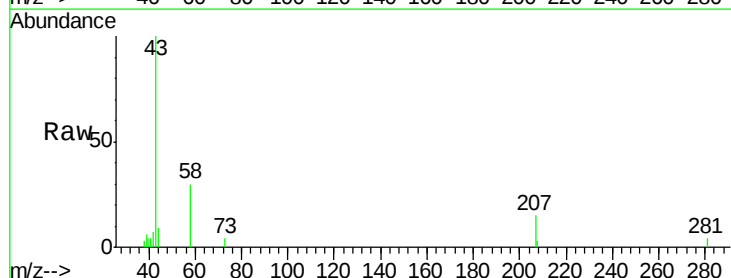


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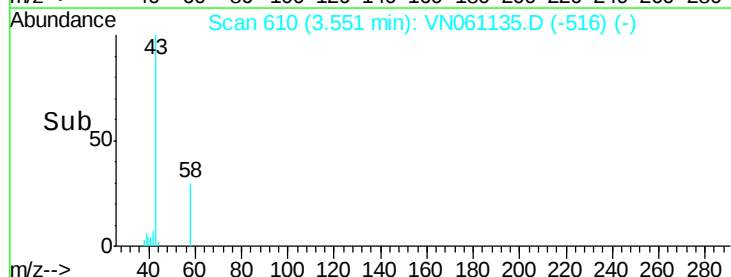
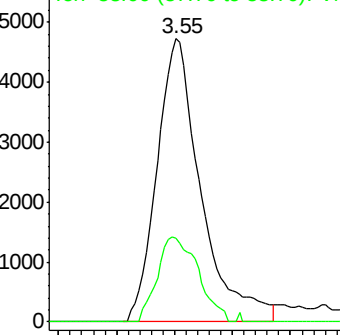


#16
 Acetone
 Concen: 2.01 ug/l
 RT: 3.55 min Scan# 610
 Delta R.T. 0.00 min
 Lab File: VN061135.D
 Acq: 22 Apr 2020 18:24

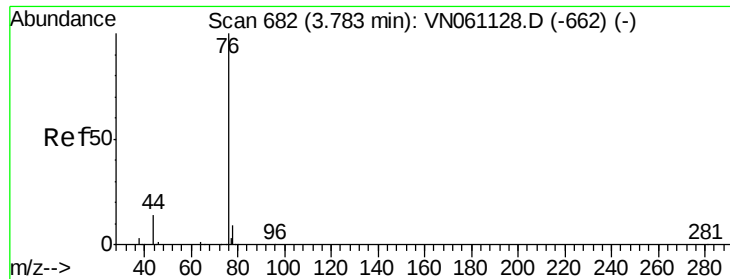
Tgt Ion: 43 Resp: 12466
 Ion Ratio Lower Upper
 43 100
 58 29.7 23.6 35.4



Abundance Ion 43.00 (42.70 to 43.70): VNO
 Ion 58.00 (57.70 to 58.70): VNO



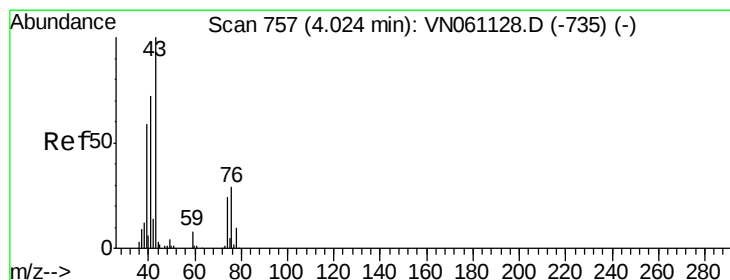
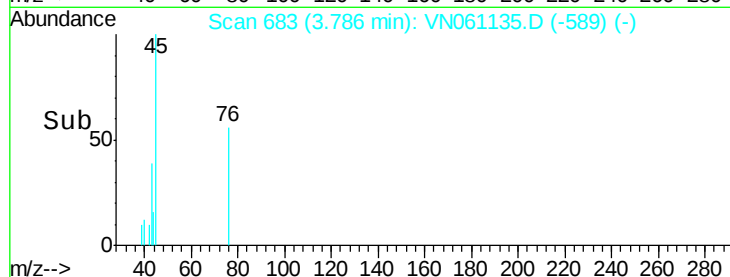
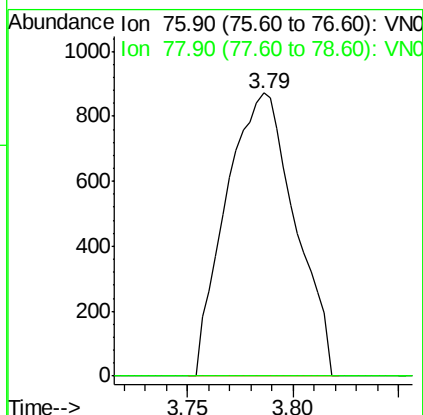
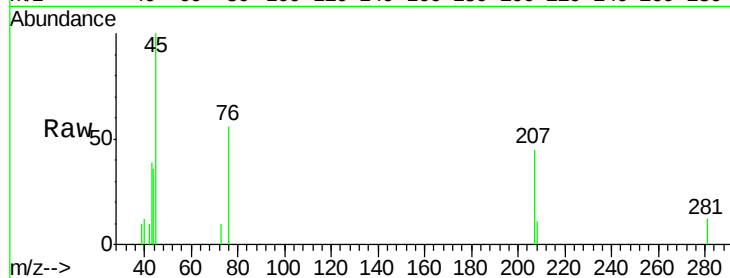
Time-->



#17
Carbon Disulfide
Concen: 0.38 ug/l
RT: 3.79 min Scan# 683
Delta R.T. 0.00 min
Lab File: VN061135.D
Acq: 22 Apr 2020 18:24

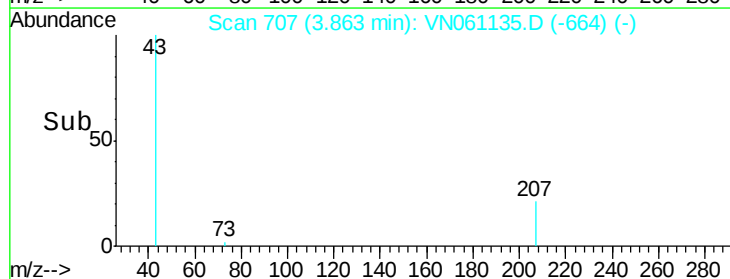
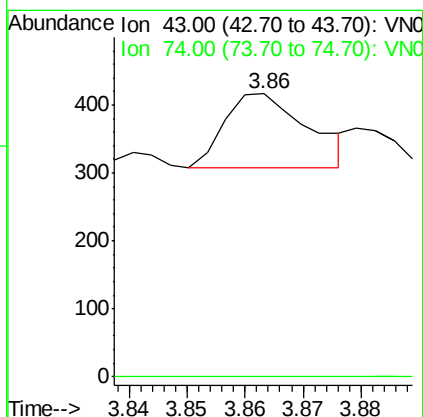
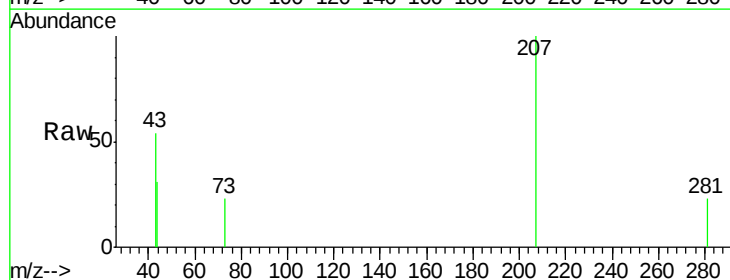
Instrument :
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FB-2020-04-13

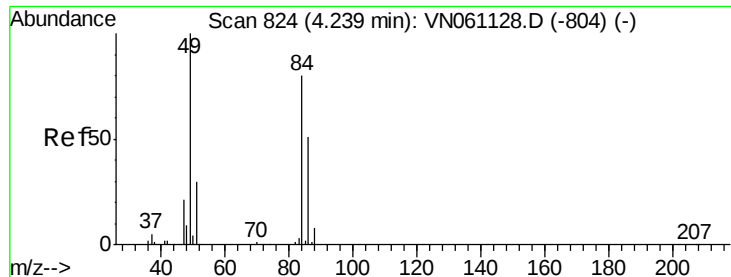
Tgt Ion: 76 Resp: 1979
Ion Ratio Lower Upper
76 100
78 0.0 7.2 10.8#



#18
Methyl Acetate
Concen: Below Cal
RT: 3.86 min Scan# 707
Delta R.T. -0.16 min
Lab File: VN061135.D
Acq: 22 Apr 2020 18:24

Tgt Ion: 43 Resp: 109
Ion Ratio Lower Upper
43 100
74 0.0 19.4 29.0#

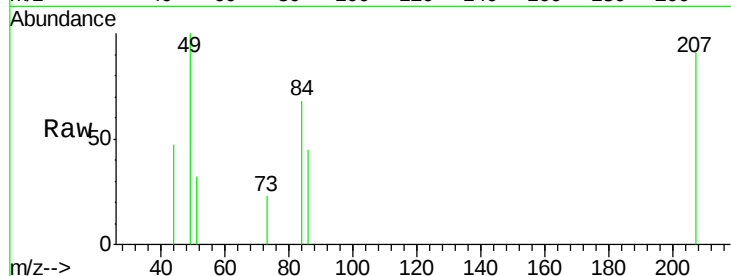




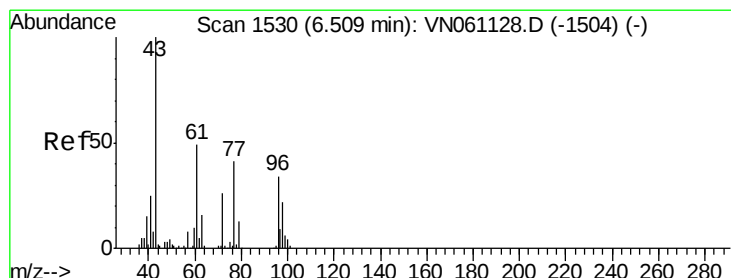
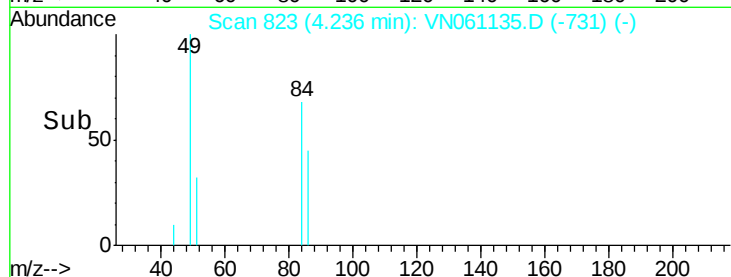
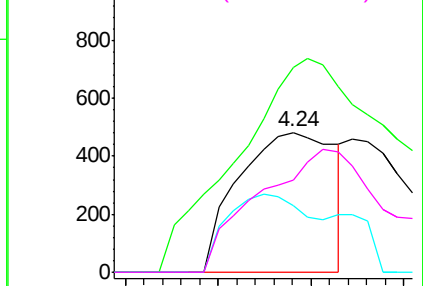
#20
Methylene Chloride
Concen: 0.35 ug/l
RT: 4.24 min Scan# 823
Delta R.T. -0.00 min
Lab File: VN061135.D
Acq: 22 Apr 2020 18:24

Instrument :
MSVOA_N
ClientSampled :
FB-2020-04-13

Tgt Ion: 84 Resp: 698
Ion Ratio Lower Upper
84 100
49 101.7 99.8 149.6
51 47.3 29.9 44.9#
86 65.8 50.9 76.3

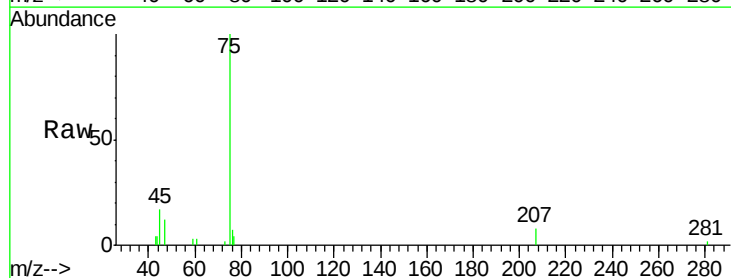


Abundance Ion 83.90 (83.60 to 84.60): VN0
Ion 48.90 (48.60 to 49.60): VN0
Ion 50.90 (50.60 to 51.60): VN0
Ion 85.90 (85.60 to 86.60): VN0

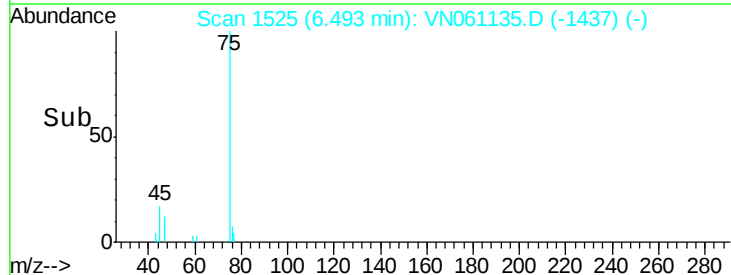
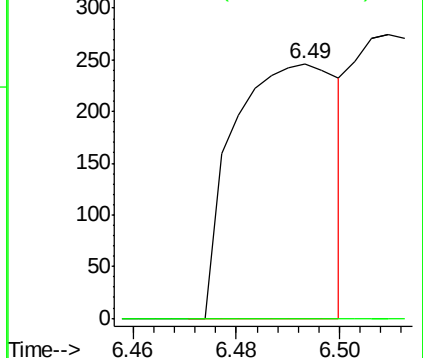


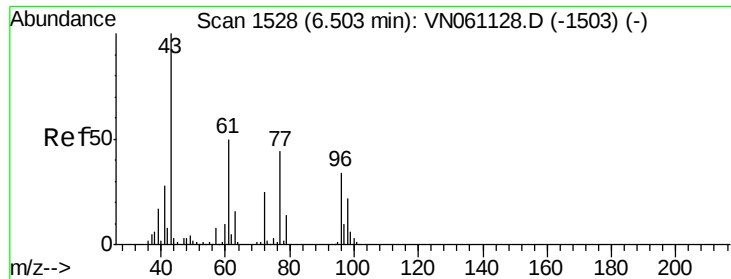
#25
2-Butanone
Concen: 0.27 ug/l
RT: 6.49 min Scan# 1525
Delta R.T. -0.02 min
Lab File: VN061135.D
Acq: 22 Apr 2020 18:24

Tgt Ion: 43 Resp: 342
Ion Ratio Lower Upper
43 100
72 0.0 20.8 31.2#



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 72.00 (71.70 to 72.70): VN0

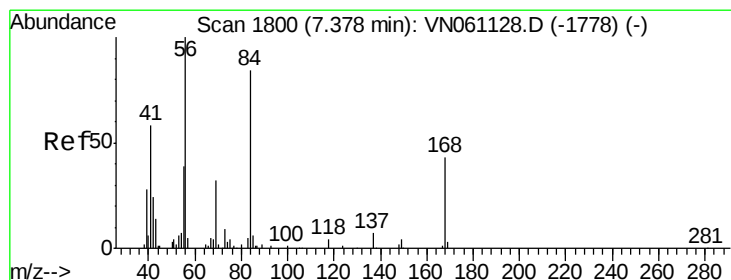
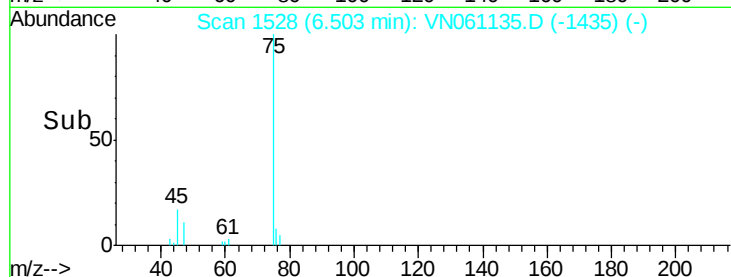
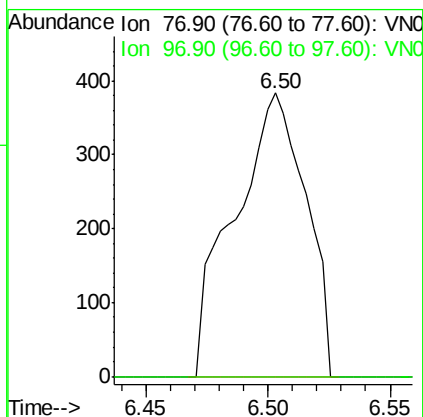
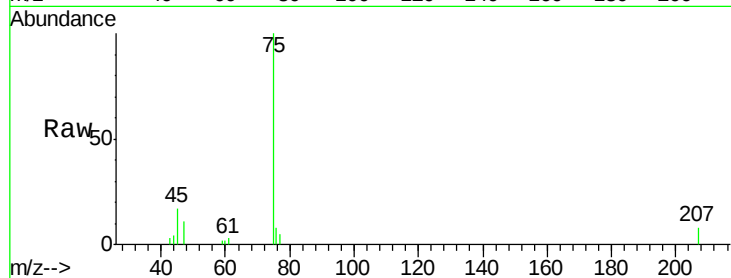




#26
 2,2-Dichloropropane
 Concen: 0.24 ug/l
 RT: 6.50 min Scan# 1528
 Delta R.T. -0.00 min
 Lab File: VN061135.D
 Acq: 22 Apr 2020 18:24

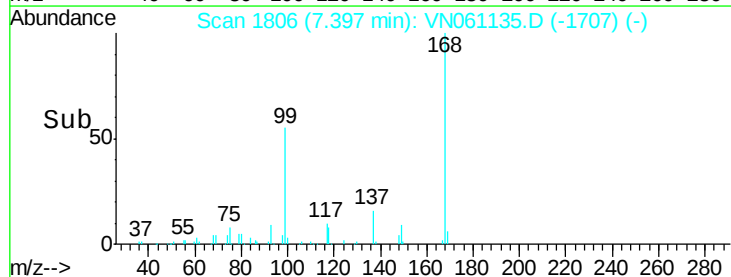
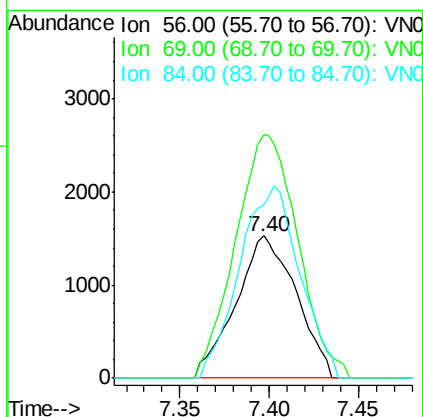
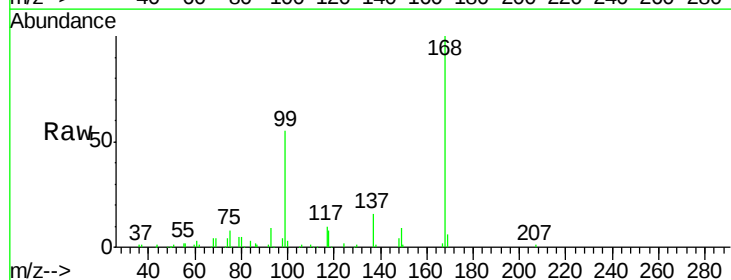
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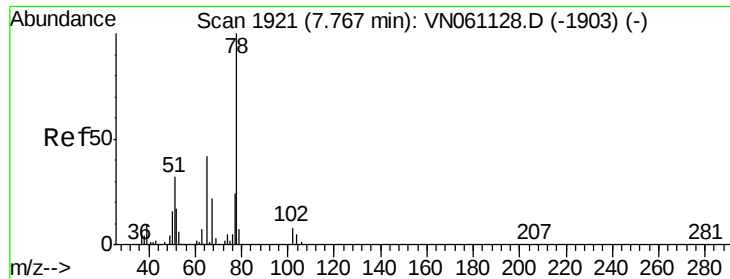
Tgt Ion: 77 Resp: 779
 Ion Ratio Lower Upper
 77 100
 97 0.0 11.4 34.1#



#31
 Cyclohexane
 Concen: 1.01 ug/l
 RT: 7.40 min Scan# 1806
 Delta R.T. 0.02 min
 Lab File: VN061135.D
 Acq: 22 Apr 2020 18:24

Tgt Ion: 56 Resp: 3606
 Ion Ratio Lower Upper
 56 100
 69 171.0 25.9 38.9#
 84 121.7 67.4 101.0#

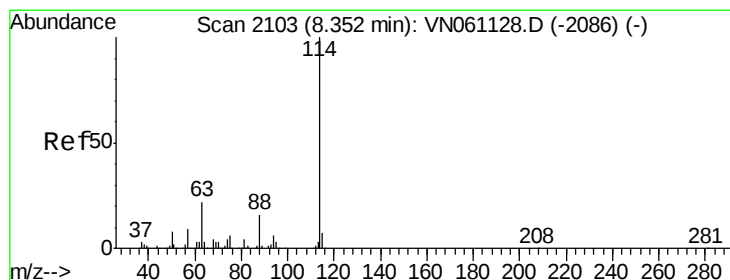
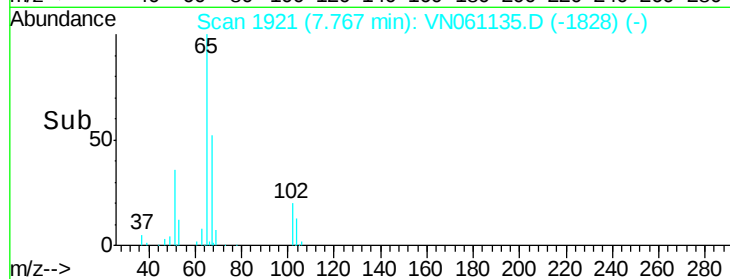
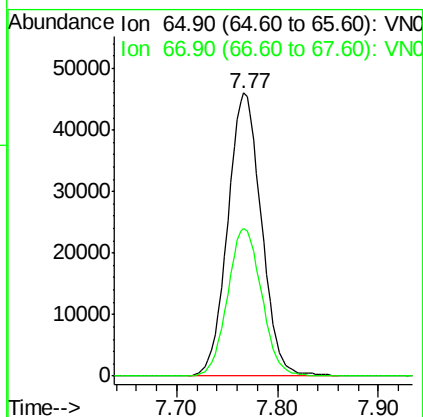
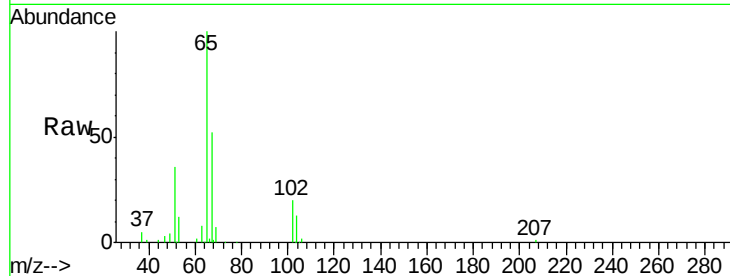




#33
 1,2-Dichloroethane-d4
 Concen: 46.21 ug/l
 RT: 7.77 min Scan# 1921
 Delta R.T. -0.00 min
 Lab File: VN061135.D
 Acq: 22 Apr 2020 18:24

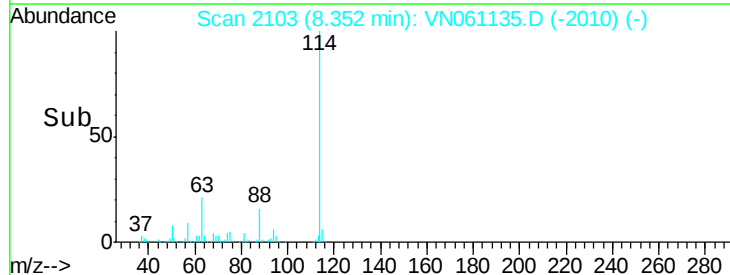
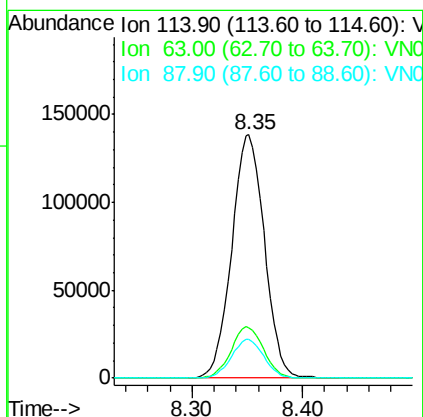
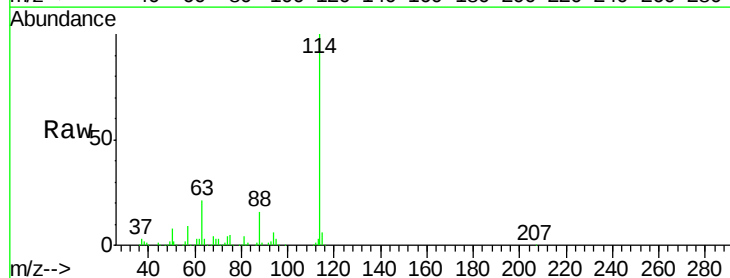
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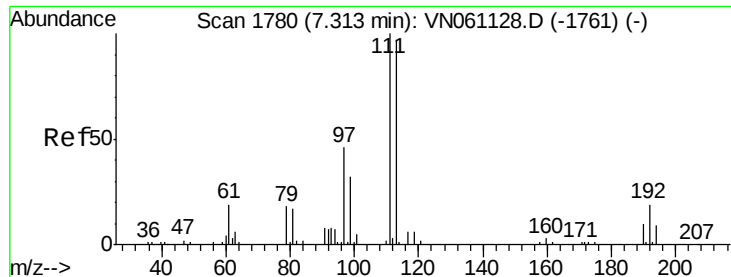
Tgt Ion: 65 Resp: 106971
 Ion Ratio Lower Upper
 65 100
 67 52.8 0.0 105.8



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.35 min Scan# 2103
 Delta R.T. -0.00 min
 Lab File: VN061135.D
 Acq: 22 Apr 2020 18:24

Tgt Ion: 114 Resp: 284000
 Ion Ratio Lower Upper
 114 100
 63 20.7 0.0 43.2
 88 15.8 0.0 32.4

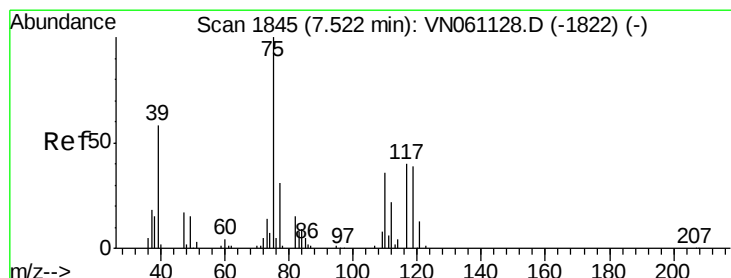
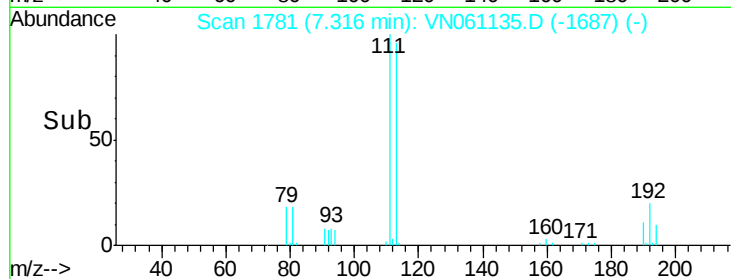
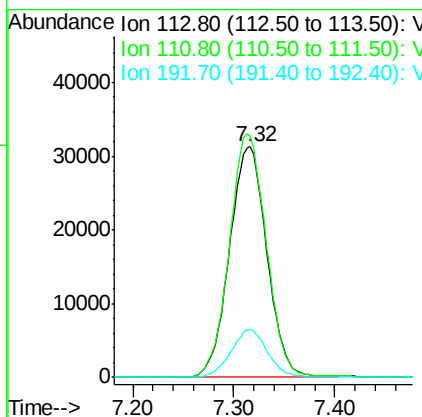
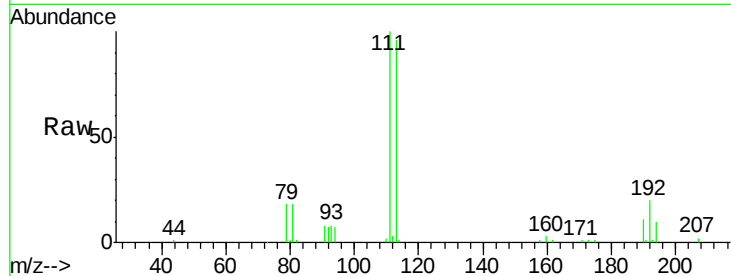




#35
 Dibromofluoromethane
 Concen: 49.71 ug/l
 RT: 7.32 min Scan# 1781
 Delta R.T. 0.00 min
 Lab File: VN061135.D
 Acq: 22 Apr 2020 18:24

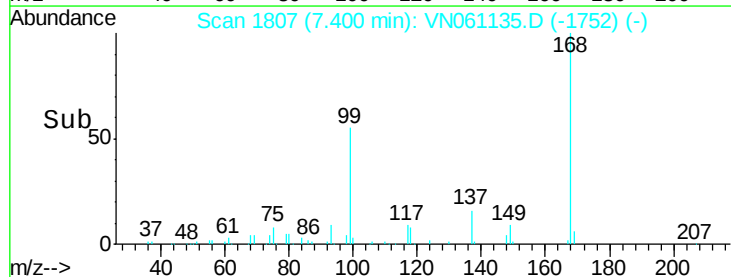
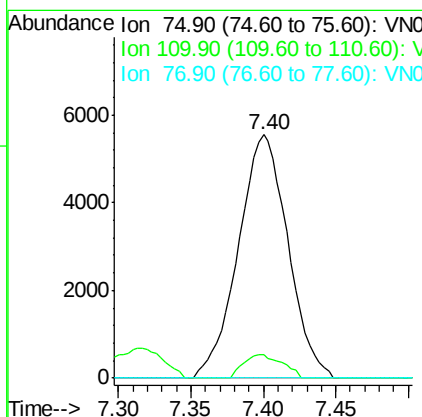
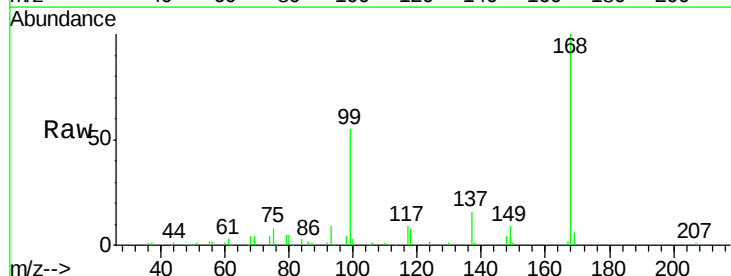
Instrument :
 MSVOA_N
 ClientSampleId :
 FB-2020-04-13

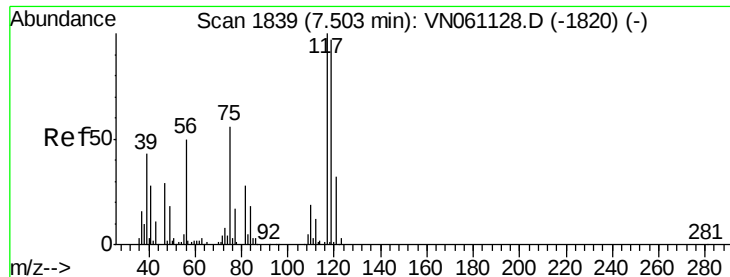
Tgt Ion:113 Resp: 80573
 Ion Ratio Lower Upper
 113 100
 111 103.6 83.0 124.6
 192 20.0 15.8 23.6



#36
 1,1-Dichloropropene
 Concen: 4.76 ug/l
 RT: 7.40 min Scan# 1807
 Delta R.T. -0.12 min
 Lab File: VN061135.D
 Acq: 22 Apr 2020 18:24

Tgt Ion: 75 Resp: 13207
 Ion Ratio Lower Upper
 75 100
 110 7.5 17.7 53.1#
 77 0.0 24.8 37.2#

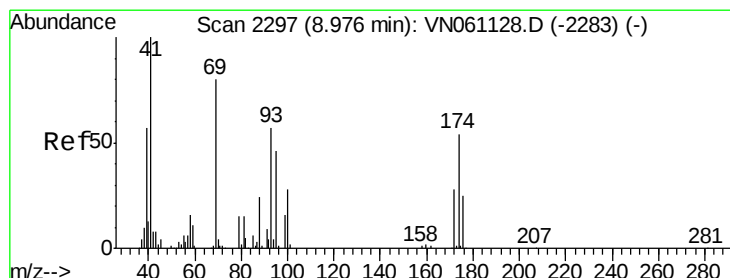
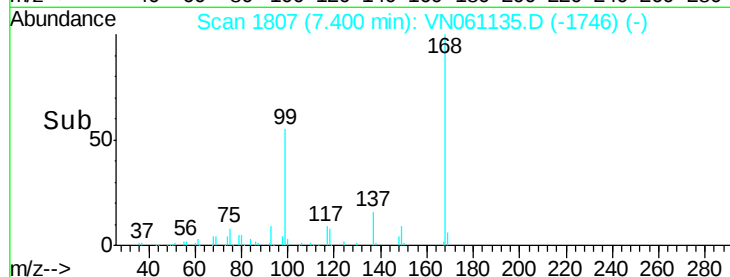
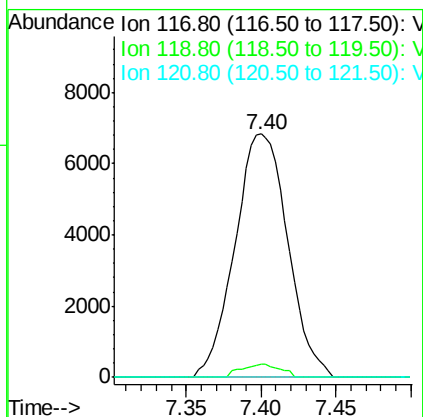
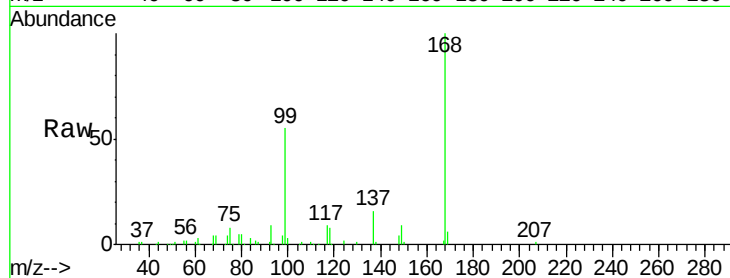




#38
Carbon Tetrachloride
Concen: 6.90 ug/l
RT: 7.40 min Scan# 1807
Delta R.T. -0.10 min
Lab File: VN061135.D
Acq: 22 Apr 2020 18:24

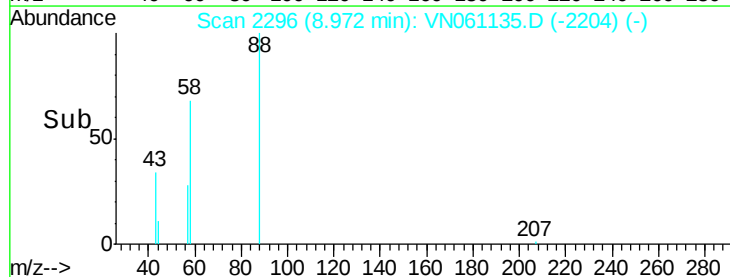
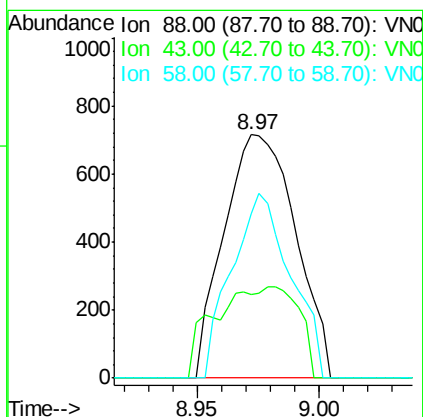
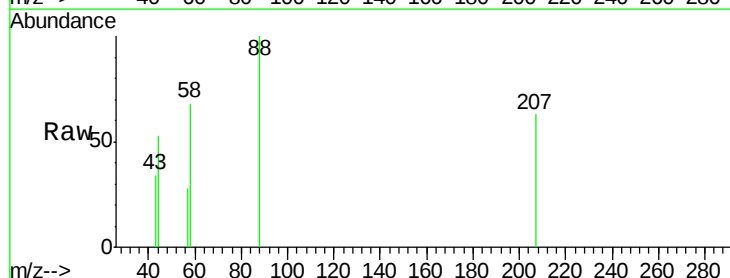
Instrument :
MSVOA_N
ClientSampled :
FB-2020-04-13

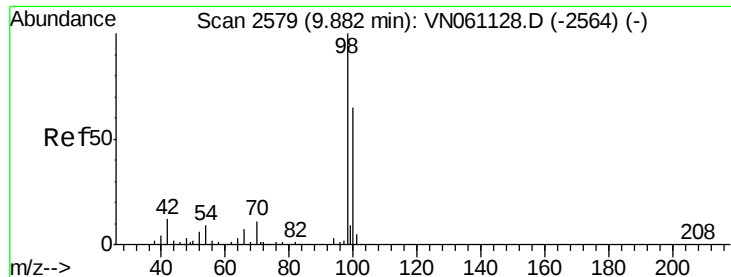
Tgt Ion:117 Resp: 16774
Ion Ratio Lower Upper
117 100
119 5.2 76.9 115.3#
121 0.0 25.0 37.6#



#49
1,4-Dioxane
Concen: Below Cal
RT: 8.97 min Scan# 2296
Delta R.T. -0.00 min
Lab File: VN061135.D
Acq: 22 Apr 2020 18:24

Tgt Ion: 88 Resp: 1460
Ion Ratio Lower Upper
88 100
43 21.9 29.0 43.4#
58 62.7 57.8 86.6

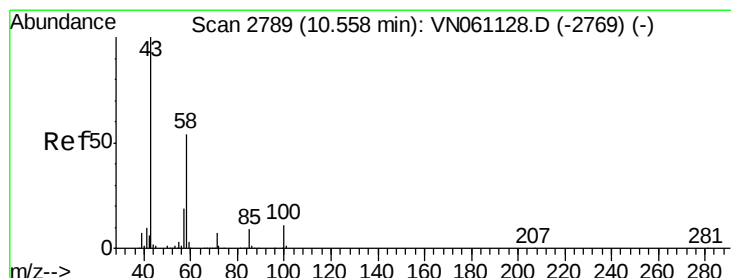
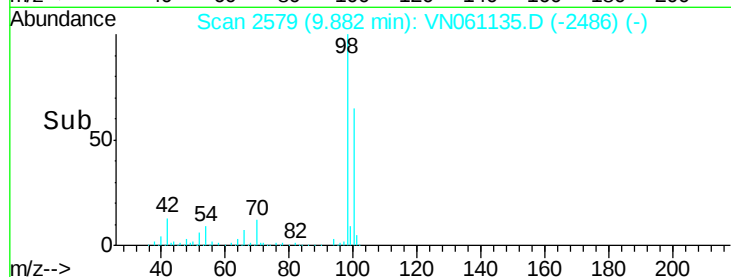
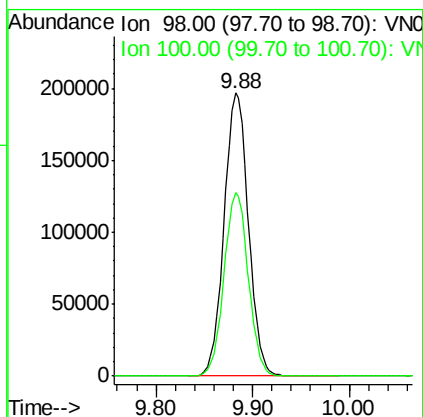
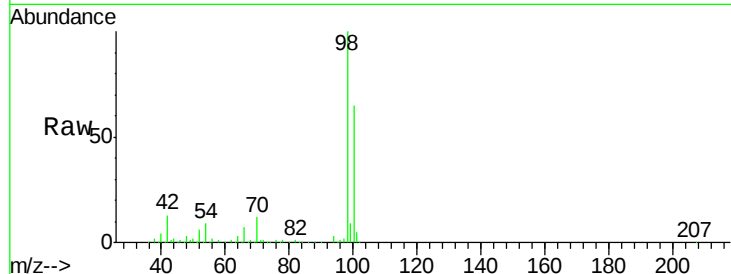




#50
Toluene-d8
Concen: 49.43 ug/l
RT: 9.88 min Scan# 2579
Delta R.T. -0.00 min
Lab File: VN061135.D
Acq: 22 Apr 2020 18:24

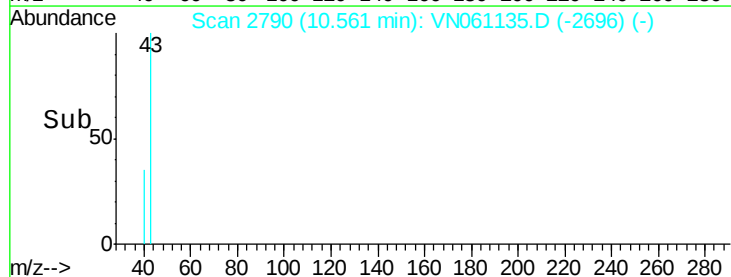
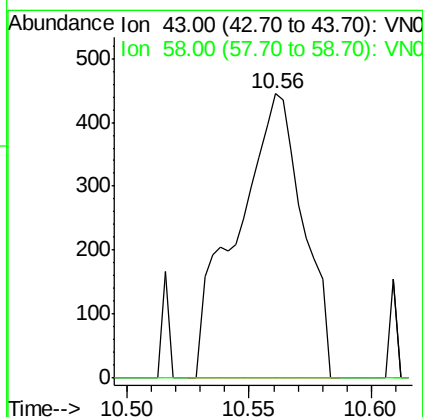
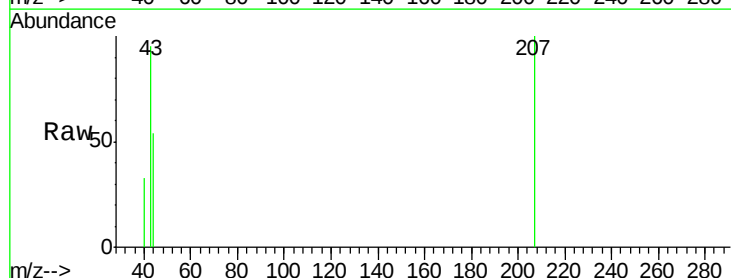
Instrument :
MSVOA_N
ClientSampleId :
FB-2020-04-13

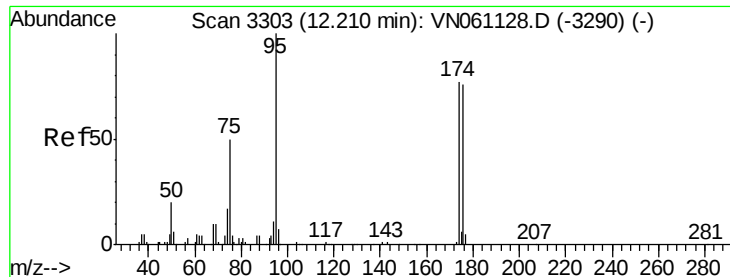
Tgt Ion: 98 Resp: 343276
Ion Ratio Lower Upper
98 100
100 64.9 51.8 77.6



#59
2-Hexanone
Concen: 0.41 ug/l
RT: 10.56 min Scan# 2790
Delta R.T. 0.00 min
Lab File: VN061135.D
Acq: 22 Apr 2020 18:24

Tgt Ion: 43 Resp: 832
Ion Ratio Lower Upper
43 100
58 0.0 26.9 80.6#





#62

4-Bromofluorobenzene

Concen: 50.96 ug/l

RT: 12.21 min Scan# 3303

Delta R.T. -0.00 min

Lab File: VN061135.D

Acq: 22 Apr 2020 18:24

Instrument :

MSVOA_N

ClientSampled :

FB-2020-04-13

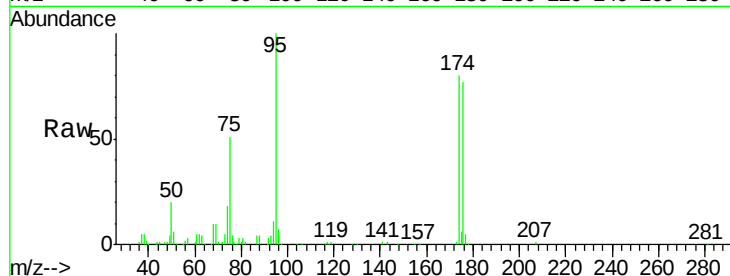
Tgt Ion: 95 Resp: 132544

Ion Ratio Lower Upper

95 100

174 80.4 0.0 157.6

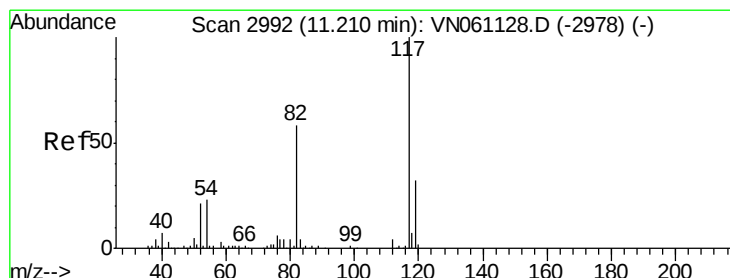
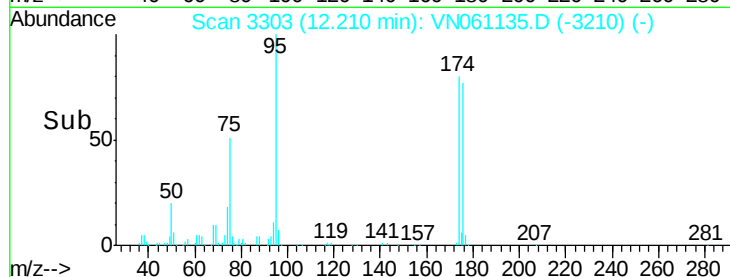
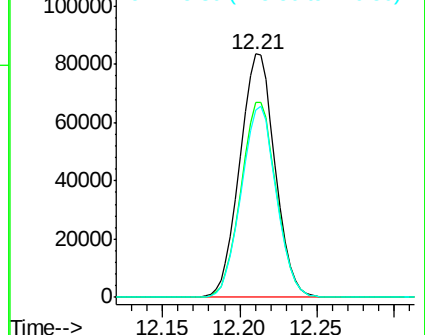
176 78.0 0.0 154.4



Abundance Ion 94.90 (94.60 to 95.60): VN0

Ion 173.80 (173.50 to 174.50): VN0

Ion 175.80 (175.50 to 176.50): VN0



#63

Chlorobenzene-d5

Concen: 50.00 ug/l

RT: 11.21 min Scan# 2993

Delta R.T. 0.00 min

Lab File: VN061135.D

Acq: 22 Apr 2020 18:24

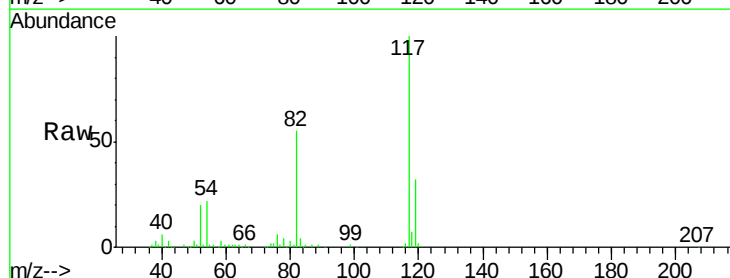
Tgt Ion: 117 Resp: 267185

Ion Ratio Lower Upper

117 100

82 54.9 46.0 69.0

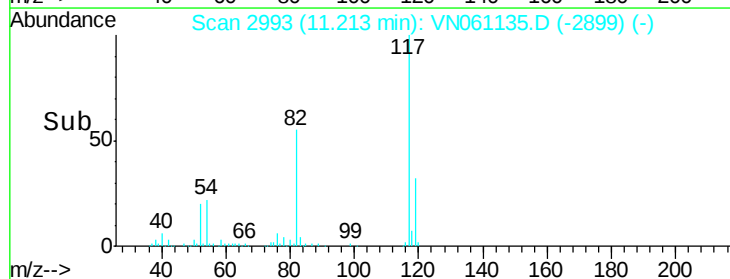
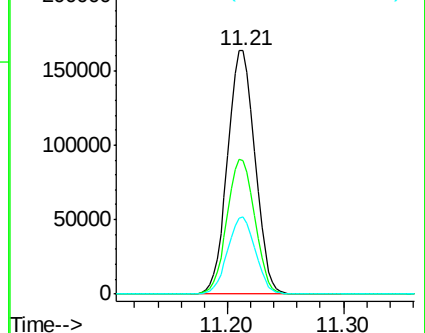
119 31.7 25.9 38.9

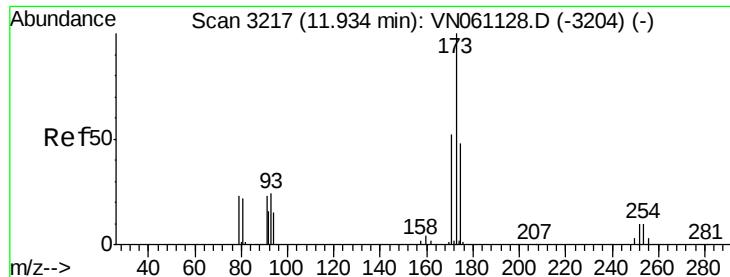


Abundance Ion 116.90 (116.60 to 117.60): VN0

Ion 82.00 (81.70 to 82.70): VN0

Ion 118.90 (118.60 to 119.60): VN0





#71

Bromoform

Concen: 0.44 ug/l

RT: 12.21 min Scan# 3304

Delta R.T. 0.28 min

Lab File: VN061135.D

Acq: 22 Apr 2020 18:24

Instrument :

MSVOA_N

ClientSampled :

FB-2020-04-13

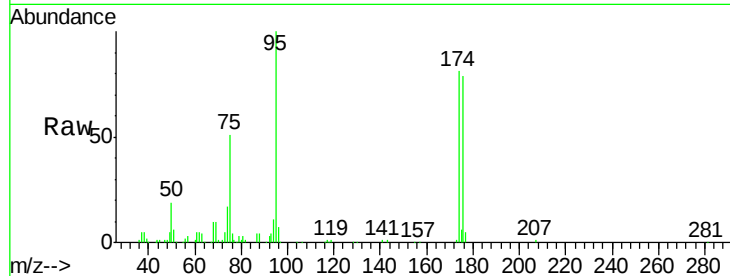
Tgt Ion:173 Resp: 634

Ion Ratio Lower Upper

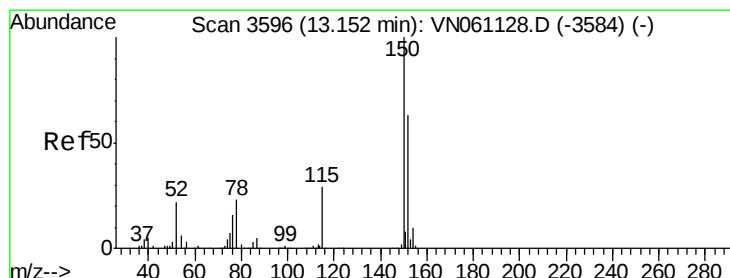
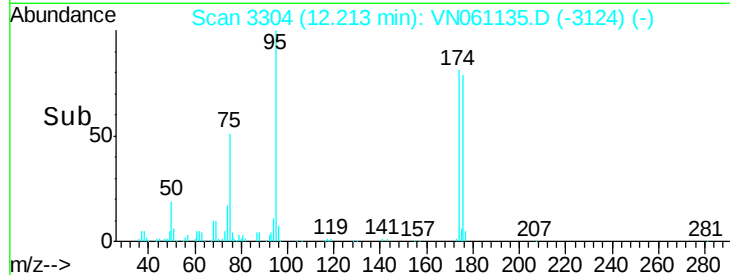
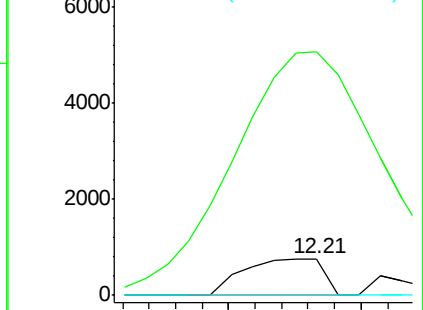
173 100

175 1022.9 23.9 71.8#

254 0.0 0.0 0.0



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: 50.00 ug/l

RT: 13.15 min Scan# 3596

Delta R.T. -0.00 min

Lab File: VN061135.D

Acq: 22 Apr 2020 18:24

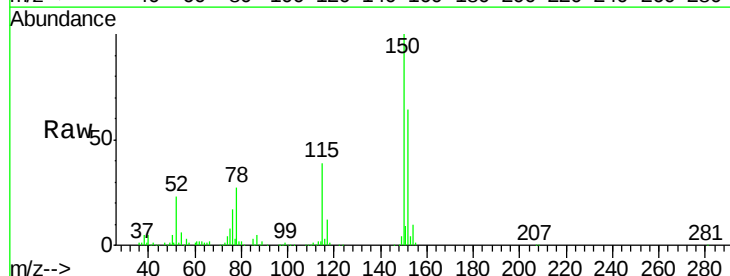
Tgt Ion:152 Resp: 125007

Ion Ratio Lower Upper

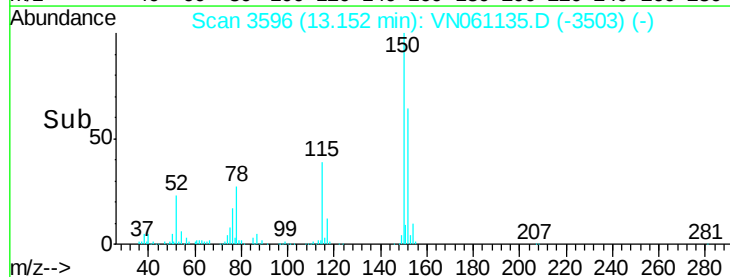
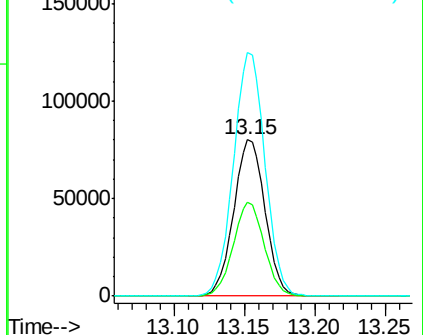
152 100

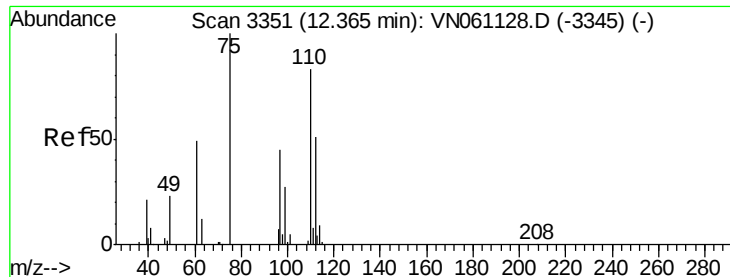
115 58.9 29.8 89.5

150 156.7 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

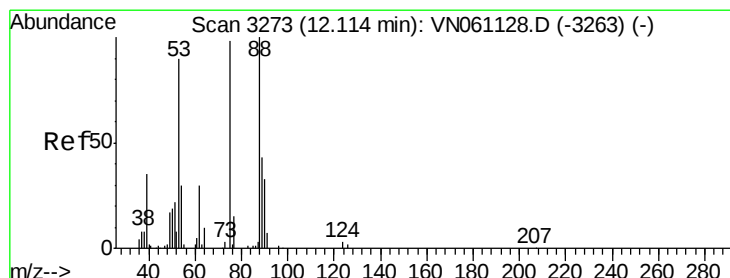
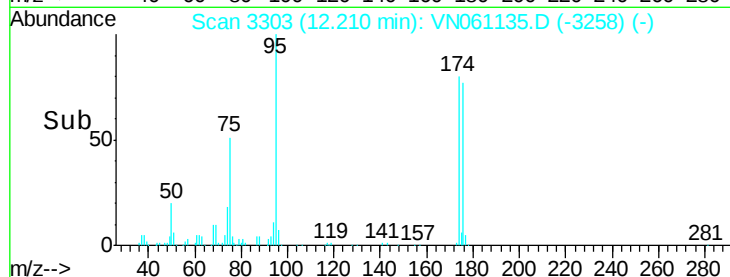
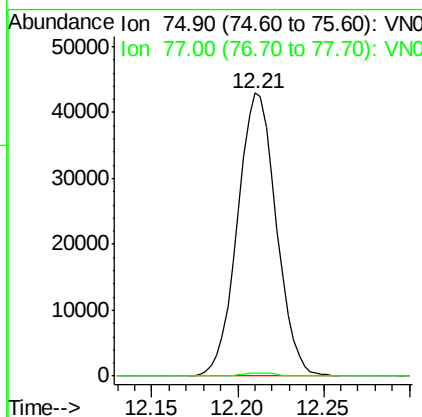
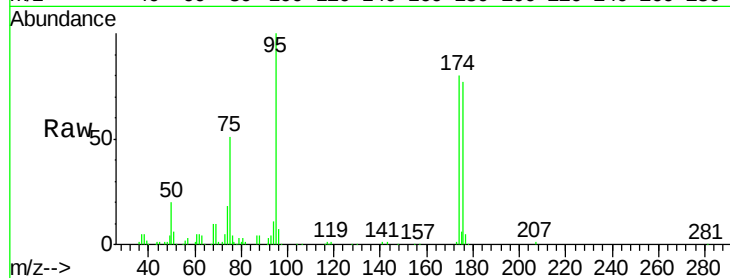




#76
 1,2,3-Trichloropropane
 Concen: 23.37 ug/l
 RT: 12.21 min Scan# 3303
 Delta R.T. -0.15 min
 Lab File: VN061135.D
 Acq: 22 Apr 2020 18:24

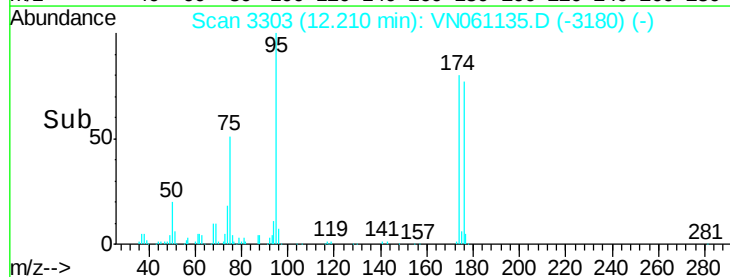
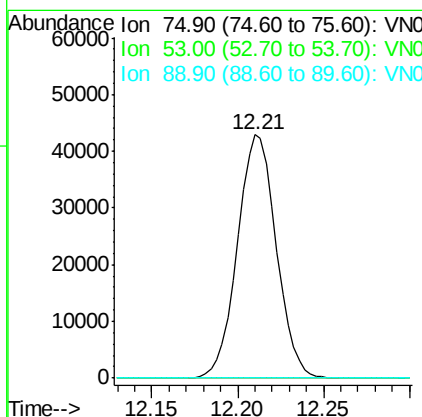
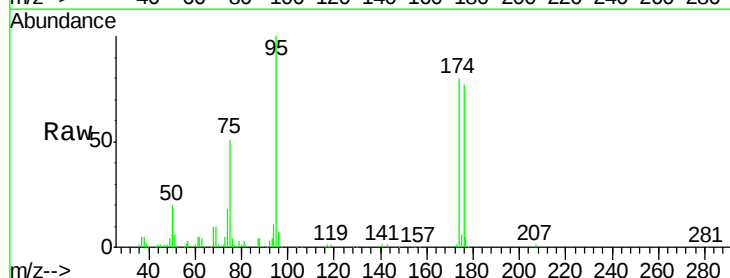
Instrument :
 MSVOA_N
 ClientSampleId :
 FB-2020-04-13

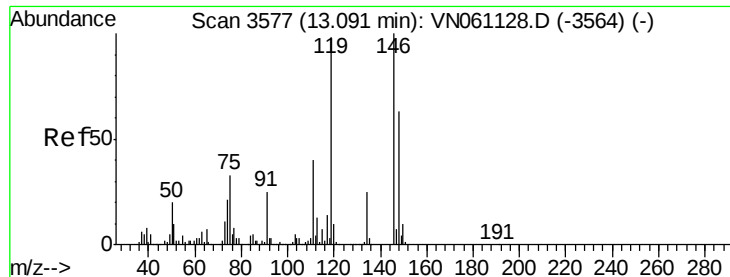
Tgt Ion: 75 Resp: 67378
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 61.37 ug/l
 RT: 12.21 min Scan# 3303
 Delta R.T. 0.10 min
 Lab File: VN061135.D
 Acq: 22 Apr 2020 18:24

Tgt Ion: 75 Resp: 67378
 Ion Ratio Lower Upper
 75 100
 53 0.0 74.3 111.5#
 89 0.0 36.6 55.0#





#87

1,3-Dichlorobenzene

Concen: 0.24 ug/l

RT: 13.09 min Scan# 3577

Delta R.T. -0.00 min

Lab File: VN061135.D

Acq: 22 Apr 2020 18:24

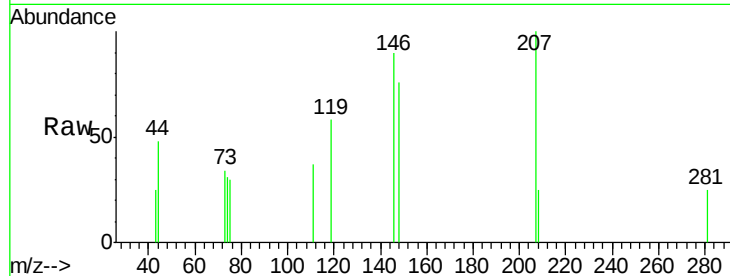
Instrument :

MSVOA_N

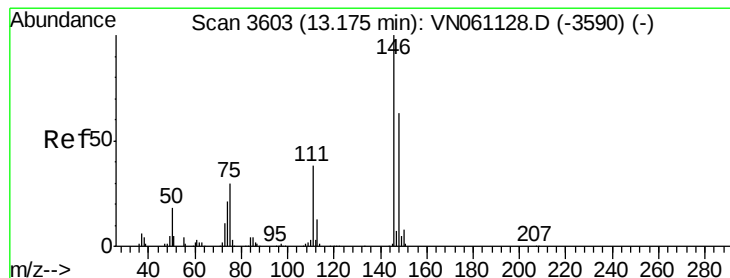
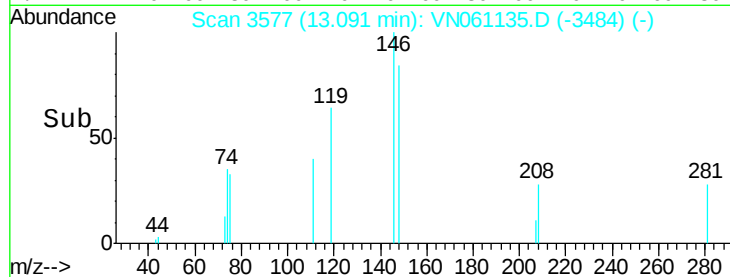
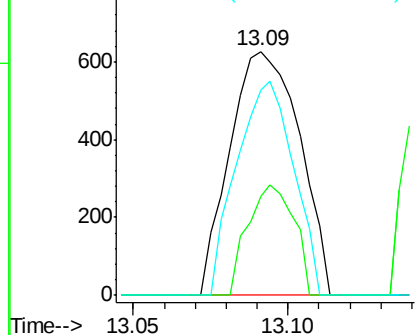
ClientSampled :

FB-2020-04-13

Tgt Ion:	146	Resp:	983
Ion	Ratio	Lower	Upper
146	100		
111	29.8	20.3	60.9
148	71.7	31.9	95.5



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#88

1,4-Dichlorobenzene

Concen: 0.24 ug/l

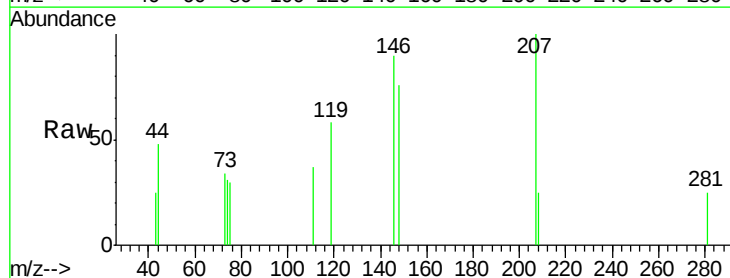
RT: 13.09 min Scan# 3577

Delta R.T. -0.08 min

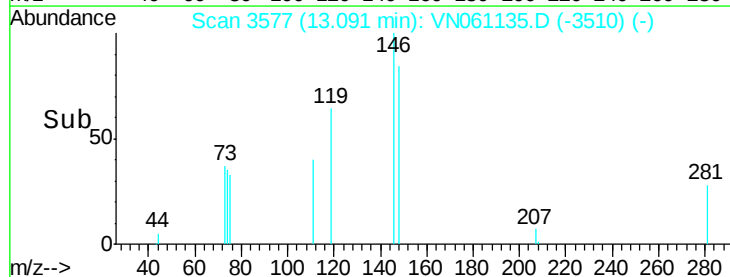
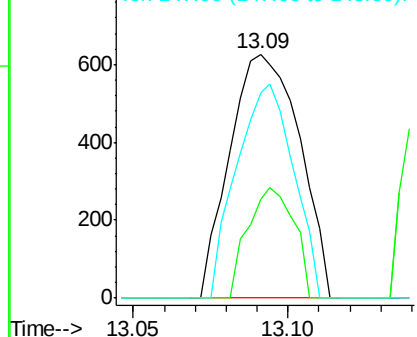
Lab File: VN061135.D

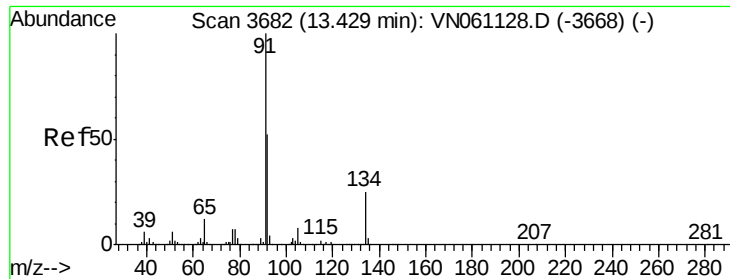
Acq: 22 Apr 2020 18:24

Tgt Ion:	146	Resp:	983
Ion	Ratio	Lower	Upper
146	100		
111	29.8	19.7	59.1
148	71.7	31.8	95.3



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V

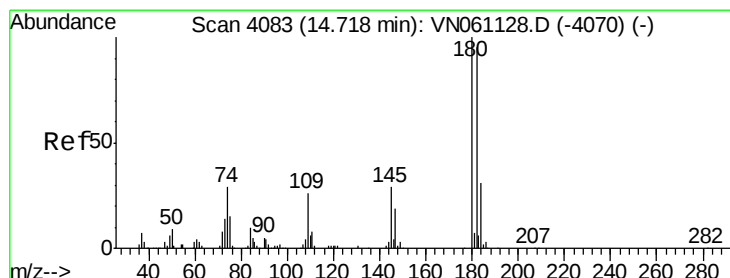
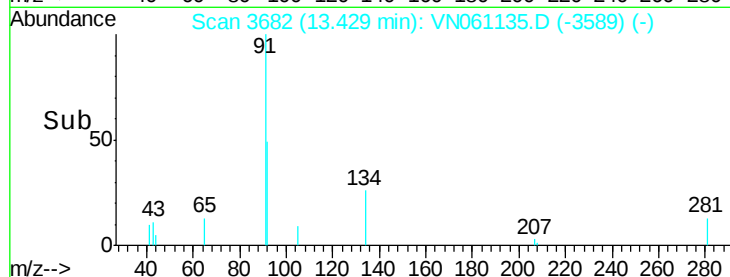
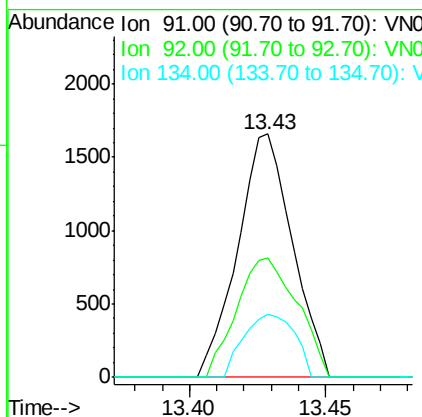
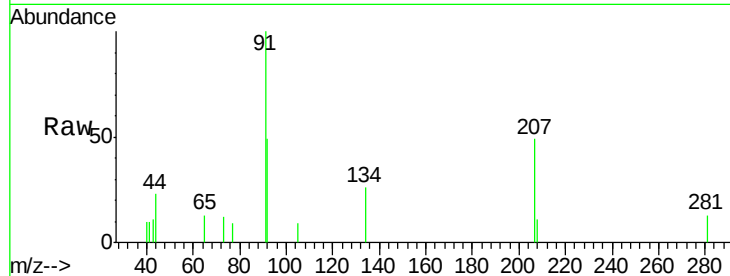




#89
n-Butylbenzene
Concen: 0.31 ug/l
RT: 13.43 min Scan# 3682
Delta R.T. -0.00 min
Lab File: VN061135.D
Acq: 22 Apr 2020 18:24

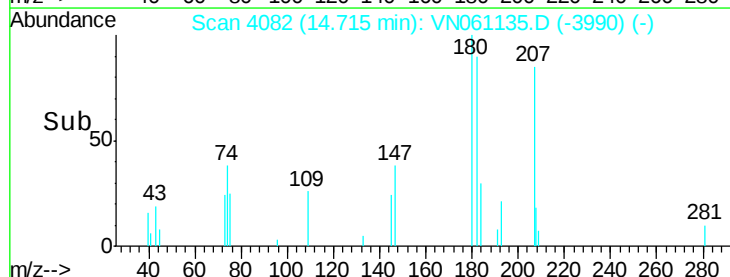
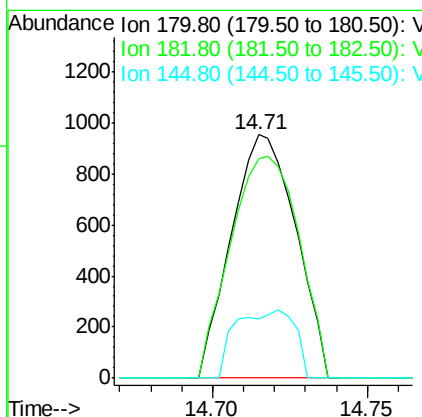
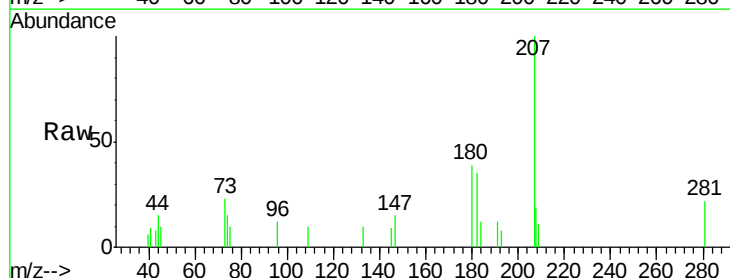
Instrument :
MSVOA_N
ClientSampled :
FB-2020-04-13

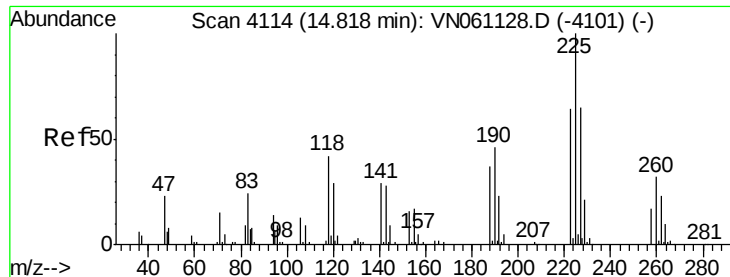
Tgt Ion: 91 Resp: 2308
Ion Ratio Lower Upper
91 100
92 54.3 26.1 78.2
134 24.3 12.6 37.6



#93
1,2,4-Trichlorobenzene
Concen: 0.54 ug/l
RT: 14.71 min Scan# 4082
Delta R.T. -0.00 min
Lab File: VN061135.D
Acq: 22 Apr 2020 18:24

Tgt Ion: 180 Resp: 1382
Ion Ratio Lower Upper
180 100
182 96.8 47.9 143.7
145 25.4 15.2 45.5





#94

Hexachlorobutadiene

Concen: 0.57 ug/l

RT: 14.82 min Scan# 4114

Delta R.T. -0.00 min

Lab File: VN061135.D

Acq: 22 Apr 2020 18:24

Instrument :

MSVOA_N

ClientSampleId :

FB-2020-04-13

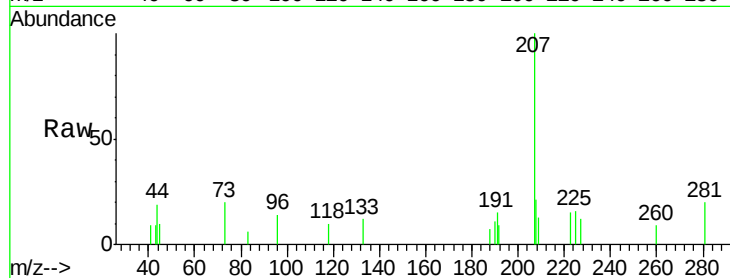
Tgt Ion:225 Resp: 628

Ion Ratio Lower Upper

225 100

223 61.6 31.6 95.0

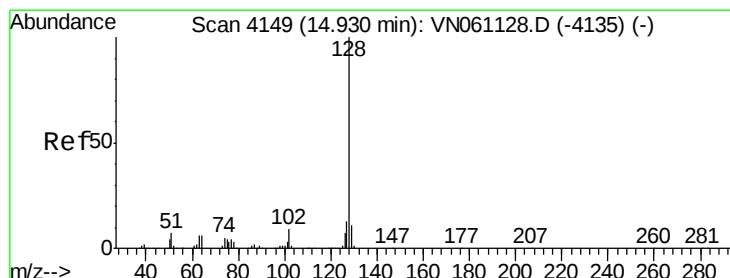
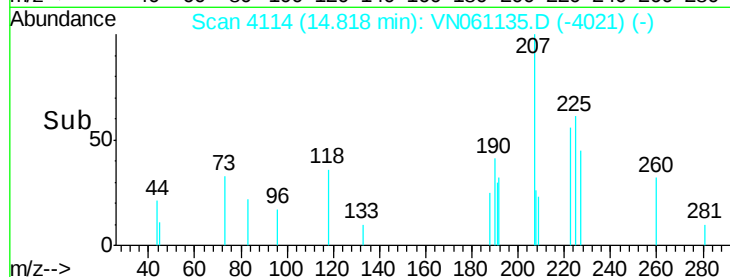
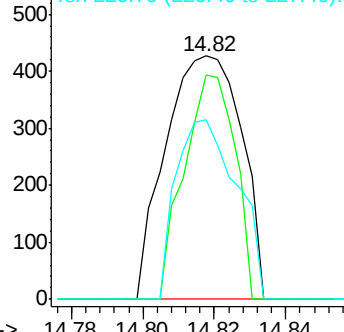
227 59.1 32.0 96.2



Abundance Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#95

Naphthalene

Concen: 0.47 ug/l

RT: 14.93 min Scan# 4149

Delta R.T. -0.00 min

Lab File: VN061135.D

Acq: 22 Apr 2020 18:24

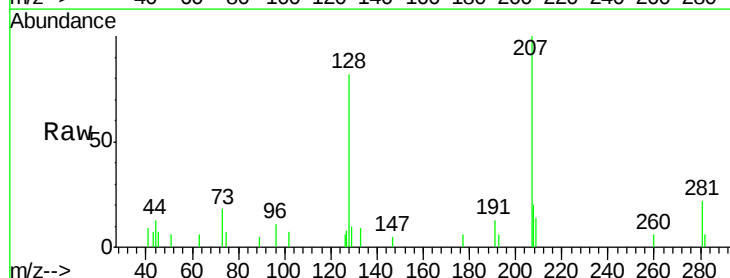
Tgt Ion:128 Resp: 3676

Ion Ratio Lower Upper

128 100

127 8.2 10.2 15.4#

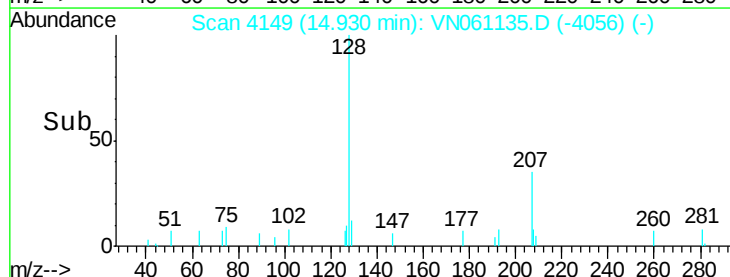
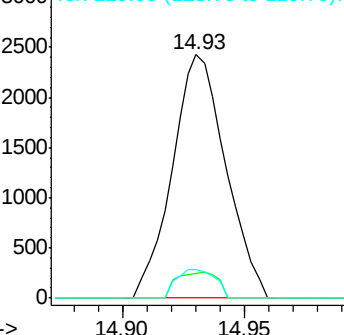
129 8.5 8.6 12.8#

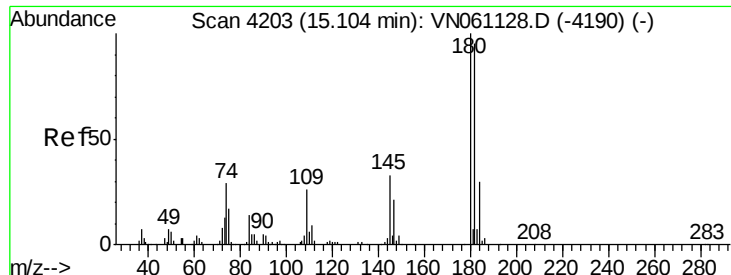


Abundance Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V

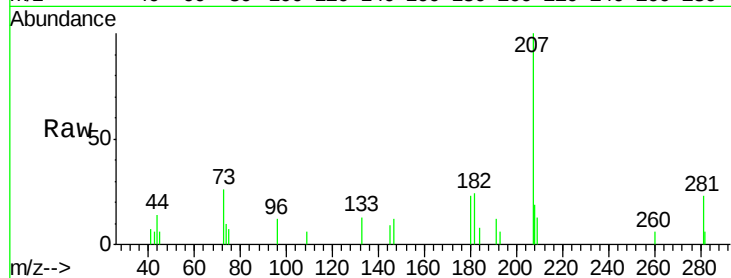




#96
 1,2,3-Trichlorobenzene
 Concen: 0.48 ug/l
 RT: 15.11 min Scan# 4204
 Delta R.T. 0.00 min
 Lab File: VN061135.D
 Acq: 22 Apr 2020 18:24

Instrument :
 MSVOA_N
 ClientSampleId :
 FB-2020-04-13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.9	47.7	143.1
145	28.3	16.3	48.8



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

