

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN061920\
 Data File : VN061984.D
 Acq On : 20 Jun 2020 8:04
 Operator : JC/MD
 Sample : L3043-20
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 45 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D1-20200612

Quant Time: Jun 22 00:44:17 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N061620W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 17 01:19:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.63	168	136333	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.55	114	253024	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.38	117	245060	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.32	152	92378	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	7.99	65	95043	51.98	ug/l	0.00
Spiked Amount 50.000			Recovery =	103.96%		
35) Dibromofluoromethane	7.55	113	81900	50.60	ug/l	0.00
Spiked Amount 50.000			Recovery =	101.20%		
50) Toluene-d8	10.06	98	320389	50.35	ug/l	0.00
Spiked Amount 50.000			Recovery =	100.70%		
62) 4-Bromofluorobenzene	12.38	95	103218	47.28	ug/l	0.00
Spiked Amount 50.000			Recovery =	94.56%		

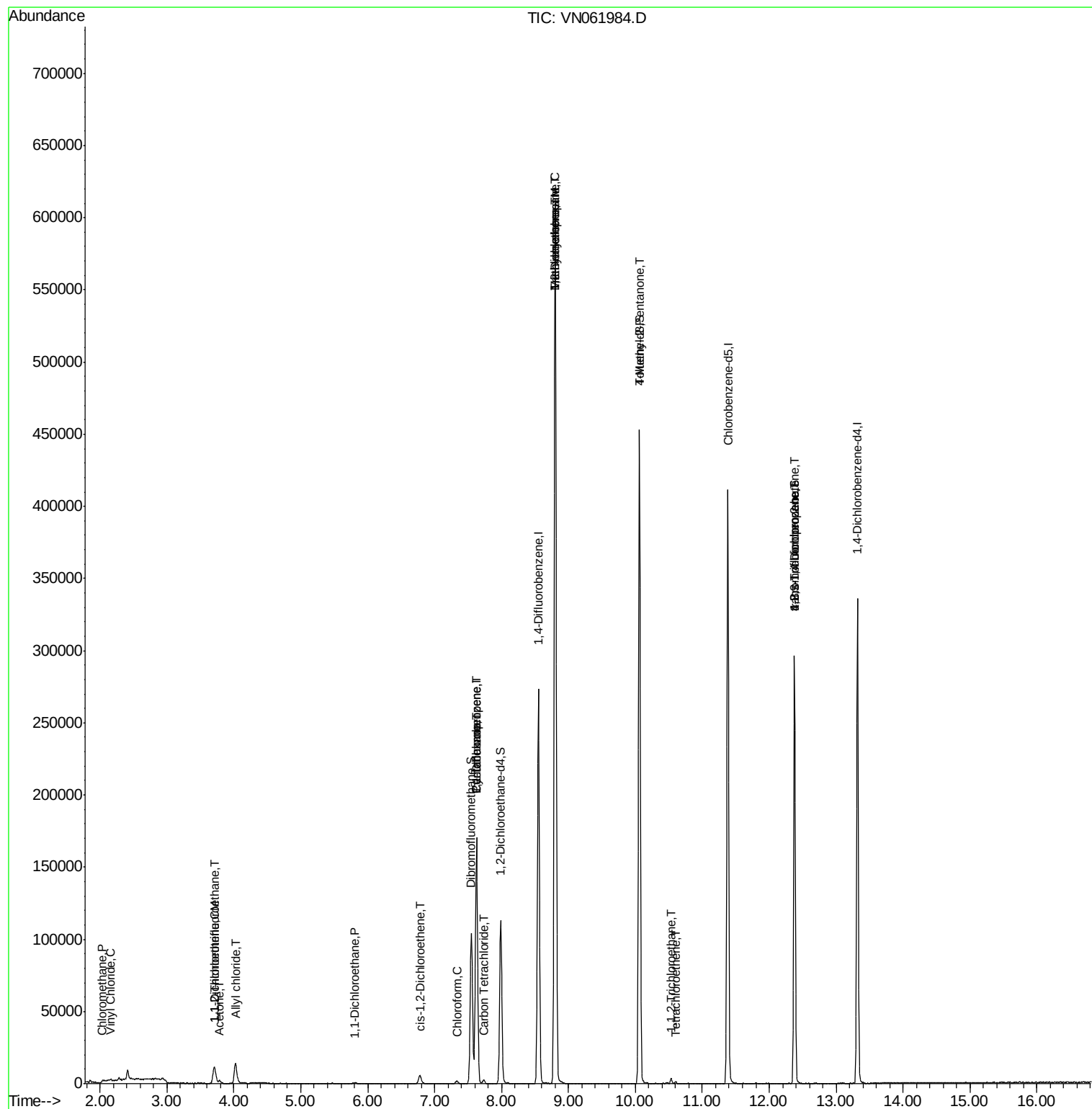
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chloromethane	2.03	50	848	0.448	ug/l	90
4) Vinyl Chloride	2.16	62	689	0.305	ug/l #	84
9) 1,1,2-Trichlorotrifluoroet	3.72	101	4922	3.560	ug/l	97
12) 1,1-Dichloroethene	3.70	96	3501	2.527	ug/l	99
14) Allyl chloride	4.02	41	2232	1.214	ug/l #	56
16) Acetone	3.79	43	3381	6.260	ug/l #	82
24) 1,1-Dichloroethane	5.80	63	713	0.259	ug/l #	82
27) cis-1,2-Dichloroethene	6.78	96	2550	1.389	ug/l	84
30) Chloroform	7.33	83	2135	0.726	ug/l #	83
31) Cyclohexane	7.63	56	2758	1.145	ug/l #	3
36) 1,1-Dichloropropene	7.63	75	10608	4.596	ug/l #	50
38) Carbon Tetrachloride	7.73	117	2160	0.945	ug/l	89
39) Methylcyclohexane	8.80	83	2872	1.156	ug/l #	1
44) Trichloroethene	8.80	130	229389	124.677	ug/l	99
45) 1,2-Dichloropropane	8.80	63	415	0.242	ug/l #	1
51) 4-Methyl-2-Pentanone	10.06	43	1066	0.594	ug/l #	1
55) 1,1,2-Trichloroethane	10.53	97	1505	0.871	ug/l #	94
64) Tetrachloroethene	10.61	164	373	0.239	ug/l #	72
76) 1,2,3-Trichloropropane	12.38	75	51495	28.394	ug/l #	100
81) trans-1,4-Dichloro-2-buten	12.38	75	51495	77.441	ug/l #	14

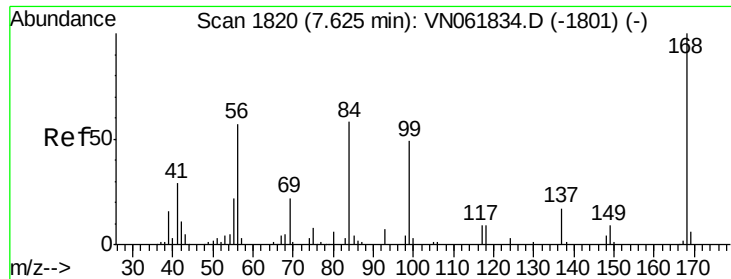
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.00 min

Lab File: VN061984.D

Acq: 20 Jun 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

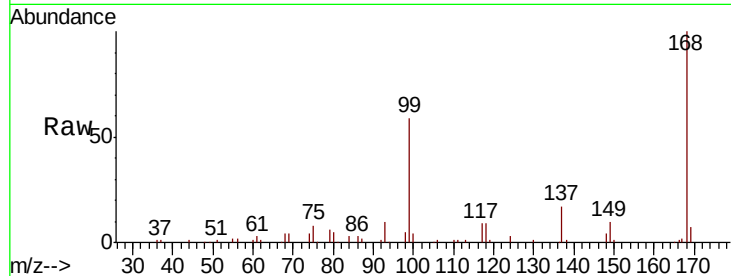
RE139D1-20200612

Tot Ion:168 Resp: 136333

Ion Ratio Lower Upper

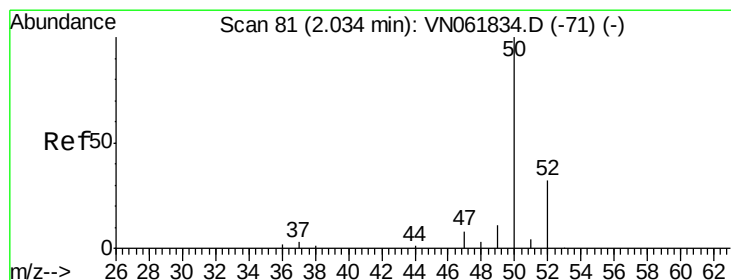
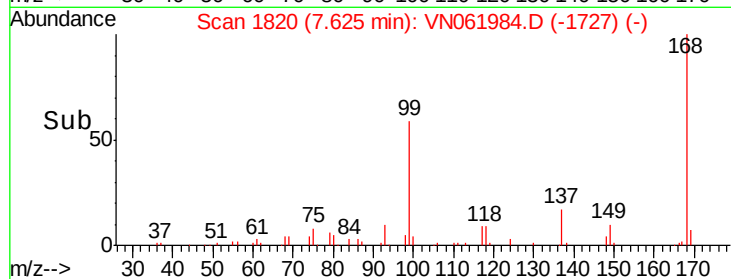
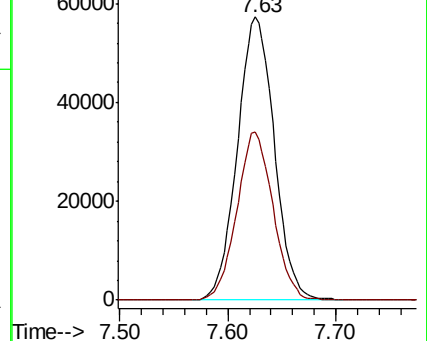
168 100

99 59.4 44.6 67.0



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#3

Chloromethane

Concen: 0.448 ug/l

RT: 2.03 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN061984.D

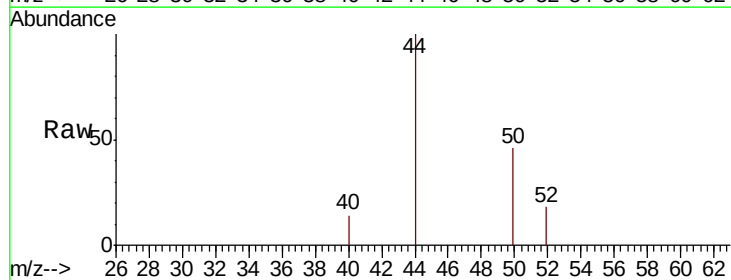
Acq: 20 Jun 2020 8:04

Tgt Ion: 50 Resp: 848

Ion Ratio Lower Upper

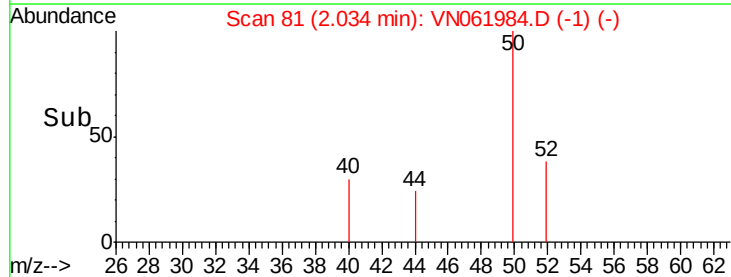
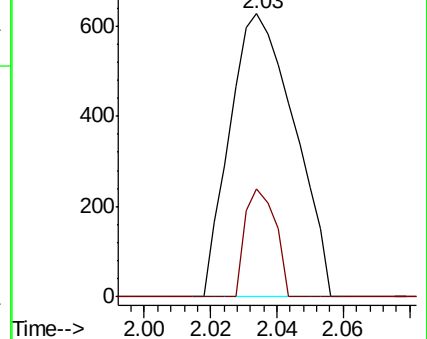
50 100

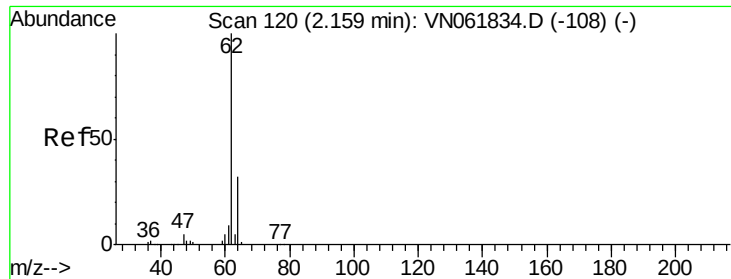
52 38.3 26.0 39.0



Abundance Ion 49.90 (49.60 to 50.60): VN

Ion 51.90 (51.60 to 52.60): VN





#4

Vinyl Chloride

Concen: 0.305 ug/l

RT: 2.16 min Scan# 121

Delta R.T. 0.00 min

Lab File: VN061984.D

Acq: 20 Jun 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

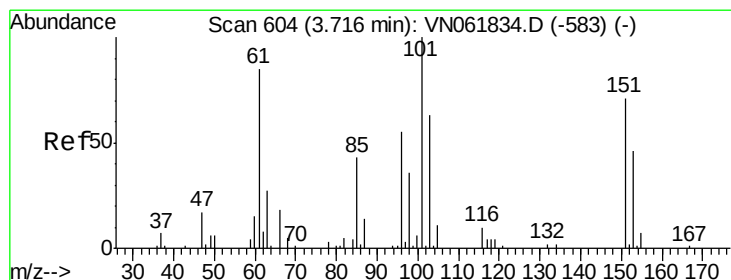
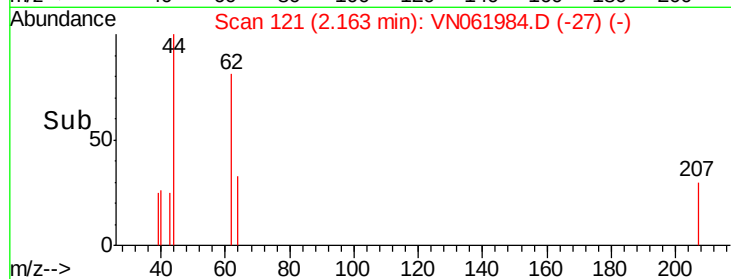
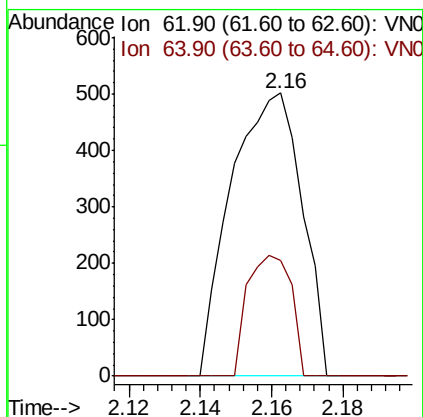
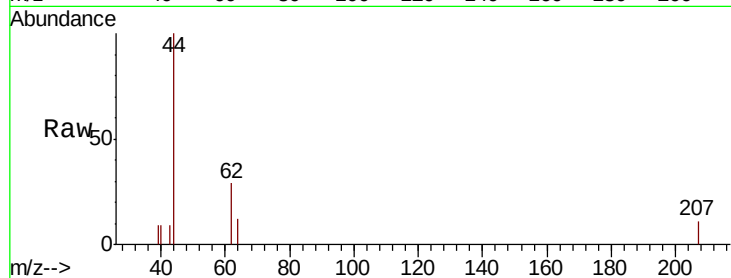
RE139D1-20200612

Tot Ion: 62 Resp: 689

Ion Ratio Lower Upper

62 100

64 40.6 25.5 38.3#



#9

1,1,2-Trichlorotrifluoroethane

Concen: 3.560 ug/l

RT: 3.72 min Scan# 606

Delta R.T. 0.01 min

Lab File: VN061984.D

Acq: 20 Jun 2020 8:04

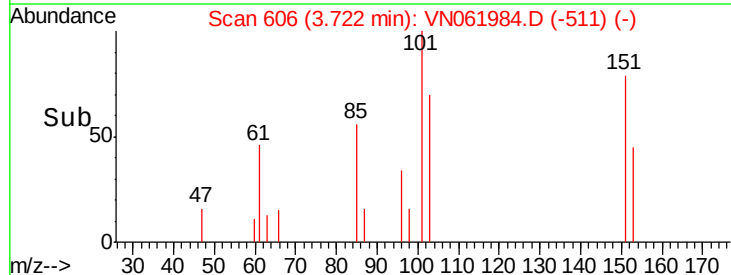
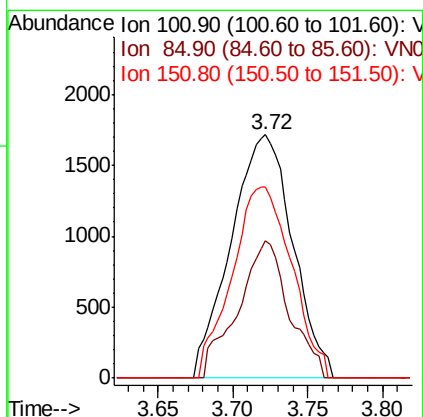
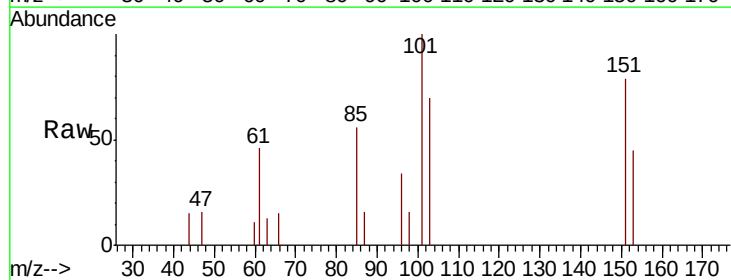
Tgt Ion: 101 Resp: 4922

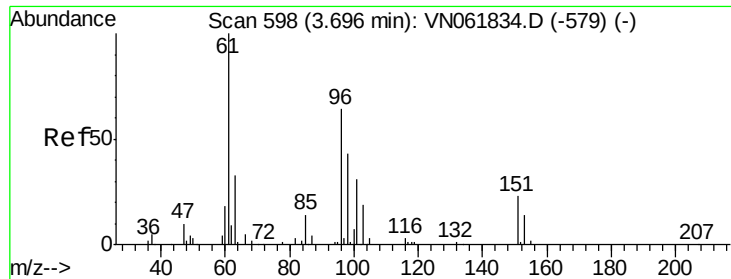
Ion Ratio Lower Upper

101 100

85 46.7 35.0 52.6

151 76.1 59.2 88.8

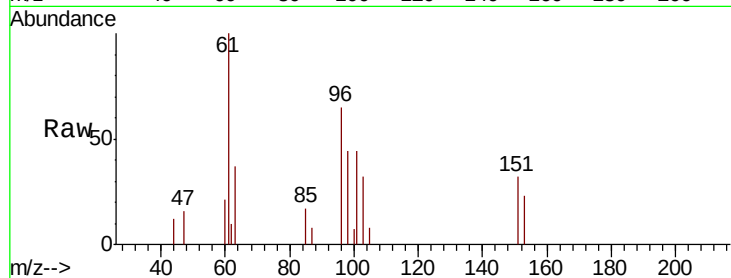




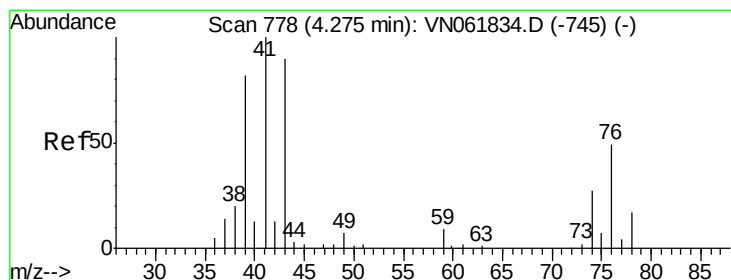
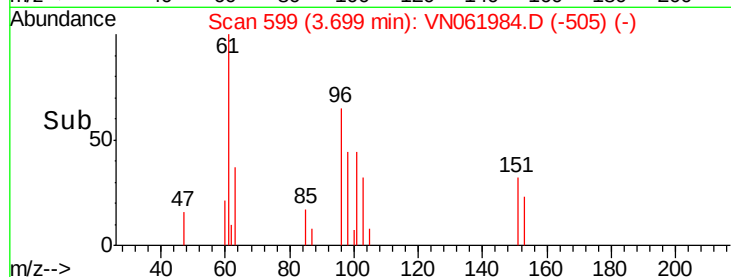
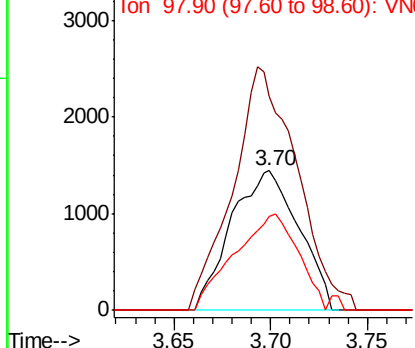
#12
 1,1-Dichloroethene
 Concen: 2.527 ug/l
 RT: 3.70 min Scan# 599
 Delta R.T. 0.00 min
 Lab File: VN061984.D
 Acq: 20 Jun 2020 8:04

Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D1-20200612

Tot Ion	Ratio	Lower	Upper
96	100		
61	153.6	124.3	186.5
98	67.3	53.1	79.7

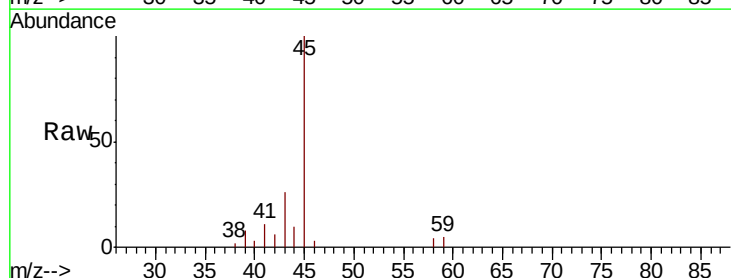


Abundance Ion 95.90 (95.60 to 96.60): VN0
 Ion 60.90 (60.60 to 61.60): VN0
 Ion 97.90 (97.60 to 98.60): VN0

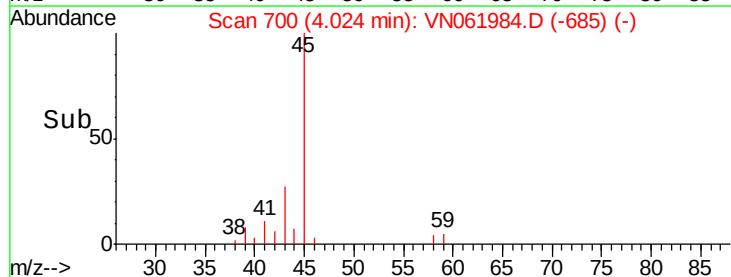
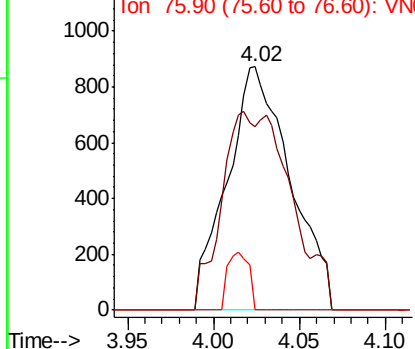


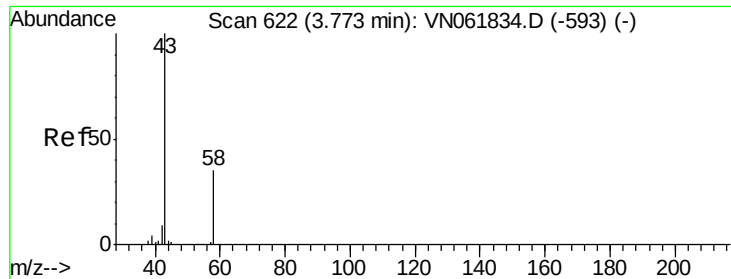
#14
 Allyl chloride
 Concen: 1.214 ug/l
 RT: 4.02 min Scan# 700
 Delta R.T. -0.25 min
 Lab File: VN061984.D
 Acq: 20 Jun 2020 8:04

Tgt Ion	Ratio	Lower	Upper
41	100		
39	43.9	60.2	90.2#
76	7.8	36.3	54.5#



Abundance Ion 41.00 (40.70 to 41.70): VN0
 Ion 39.00 (38.70 to 39.70): VN0
 Ion 75.90 (75.60 to 76.60): VN0

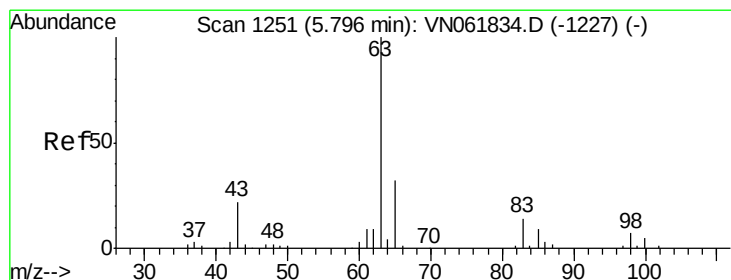
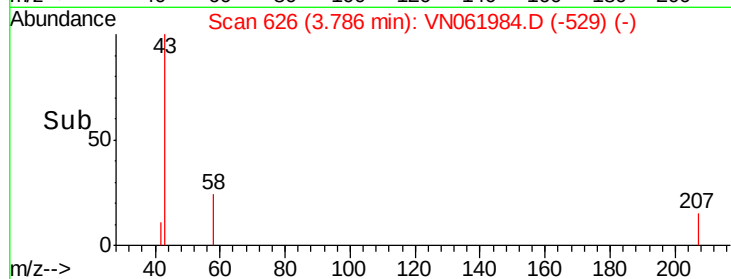
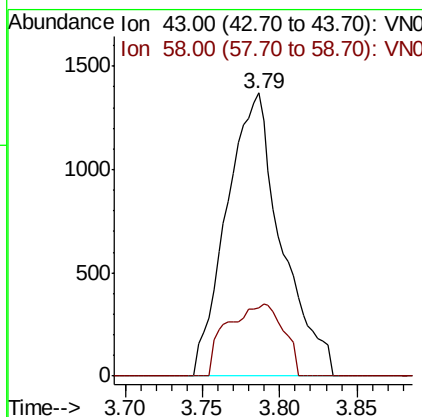
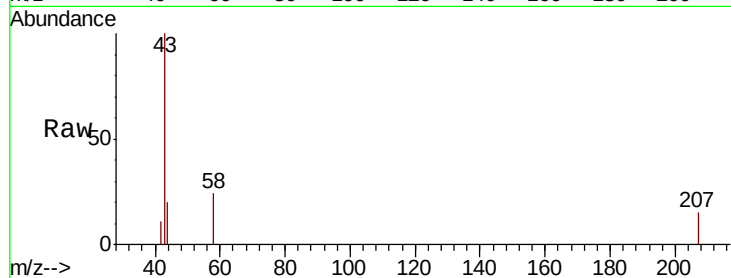




#16
Acetone
Concen: 6.260 ug/l
RT: 3.79 min Scan# 626
Delta R.T. 0.01 min
Lab File: VN061984.D
Acq: 20 Jun 2020 8:04

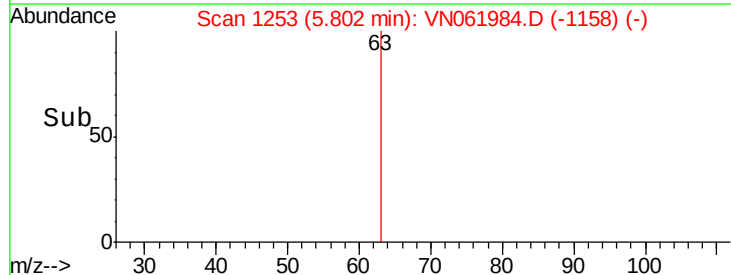
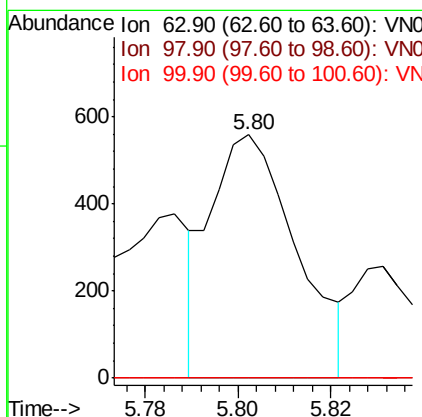
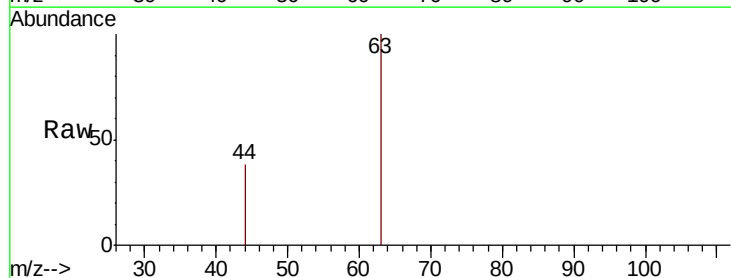
Instrument :
MSVOA_N
ClientSampleId :
RE139D1-20200612

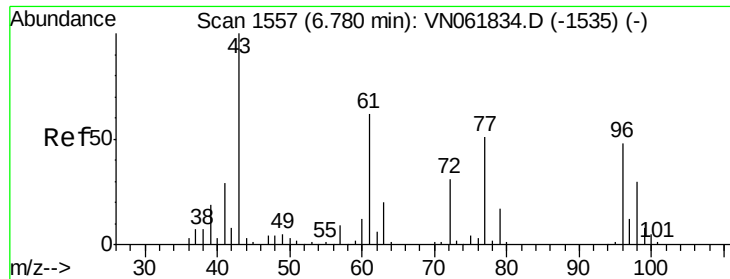
Tot Ion: 43 Resp: 3381
Ion Ratio Lower Upper
43 100
58 24.2 27.8 41.8#



#24
1,1-Dichloroethane
Concen: 0.259 ug/l
RT: 5.80 min Scan# 1253
Delta R.T. 0.01 min
Lab File: VN061984.D
Acq: 20 Jun 2020 8:04

Tgt Ion: 63 Resp: 713
Ion Ratio Lower Upper
63 100
98 0.0 3.5 10.4#
100 0.0 2.5 7.4#

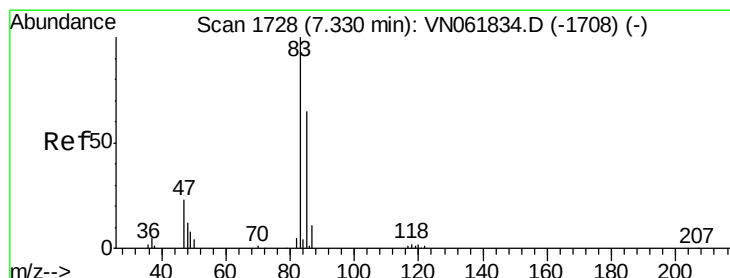
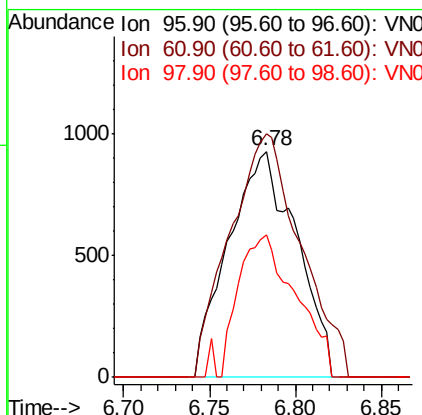
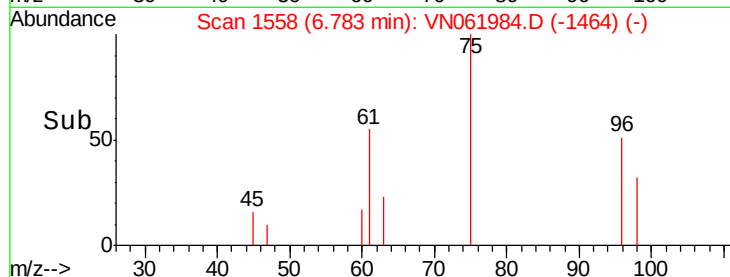
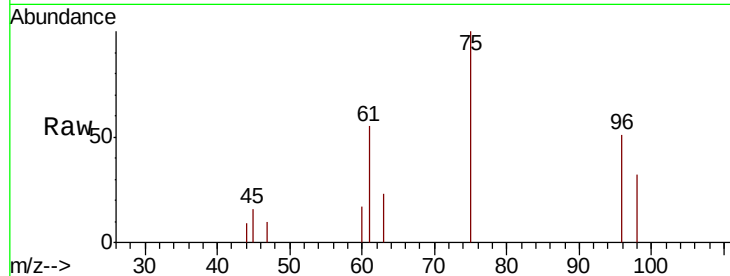




#27
 cis-1,2-Dichloroethene
 Concen: 1.389 ug/l
 RT: 6.78 min Scan# 1558
 Delta R.T. 0.00 min
 Lab File: VN061984.D
 Acq: 20 Jun 2020 8:04

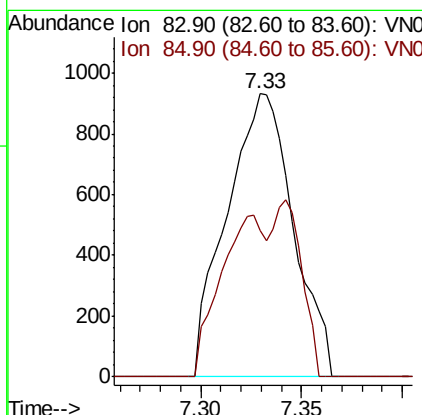
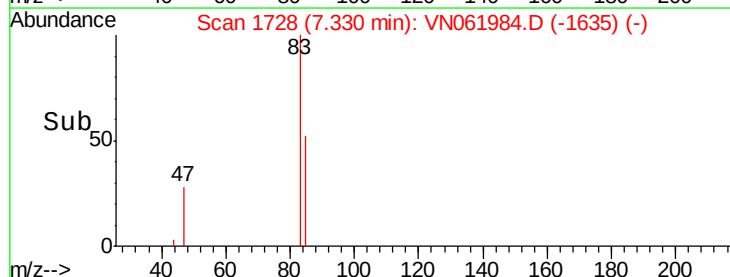
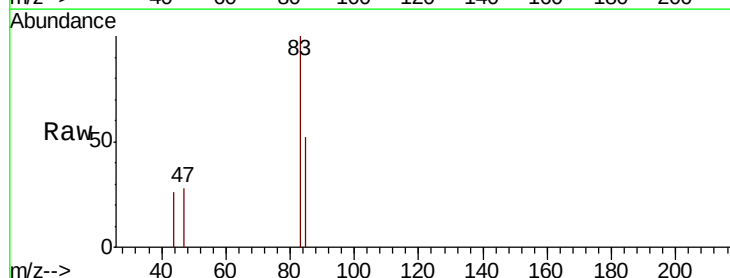
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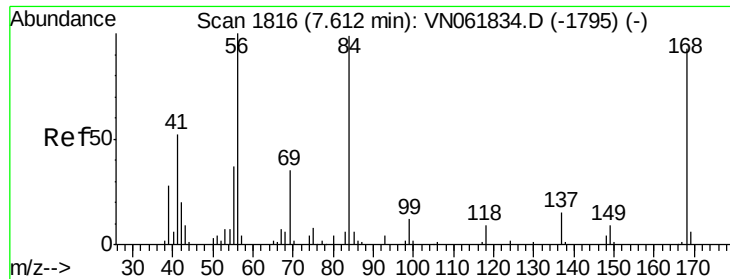
Tot Ion: 96 Resp: 2550
 Ion Ratio Lower Upper
 96 100
 61 112.5 0.0 265.6
 98 53.0 0.0 128.2



#30
 Chloroform
 Concen: 0.726 ug/l
 RT: 7.33 min Scan# 1728
 Delta R.T. 0.00 min
 Lab File: VN061984.D
 Acq: 20 Jun 2020 8:04

Tgt Ion: 83 Resp: 2135
 Ion Ratio Lower Upper
 83 100
 85 51.8 52.0 78.0#

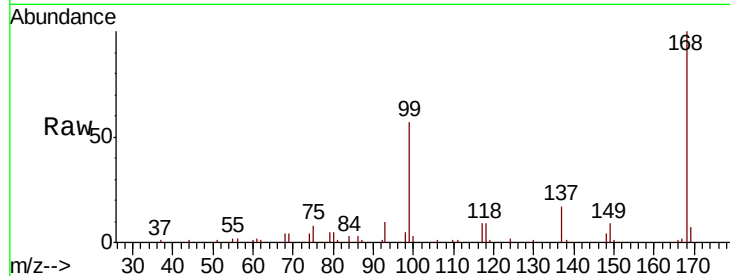




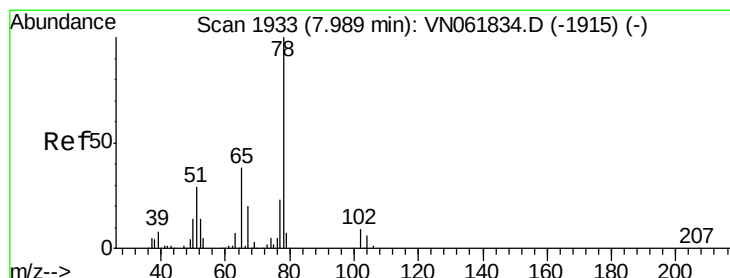
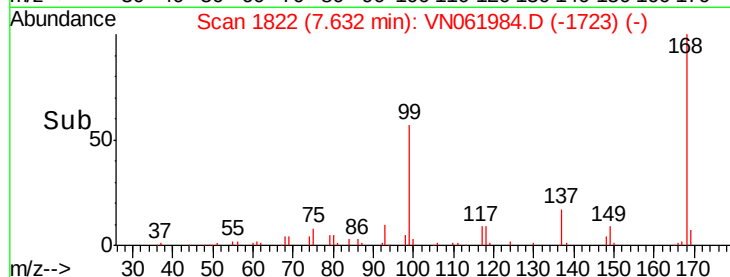
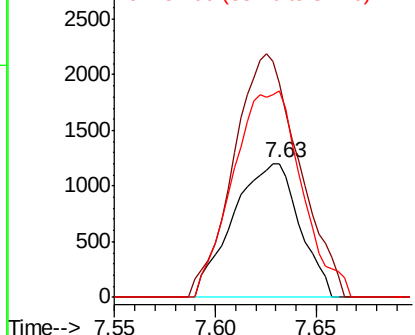
#31
Cyclohexane
Concen: 1.145 ug/l
RT: 7.63 min Scan# 1822
Delta R.T. 0.02 min
Lab File: VN061984.D
Acq: 20 Jun 2020 8:04

Instrument :
MSVOA_N
ClientSampleId :
RE139D1-20200612

Tot Ion: 56 Resp: 2758
Ion Ratio Lower Upper
56 100
69 160.0 27.7 41.5#
84 153.7 79.1 118.7#

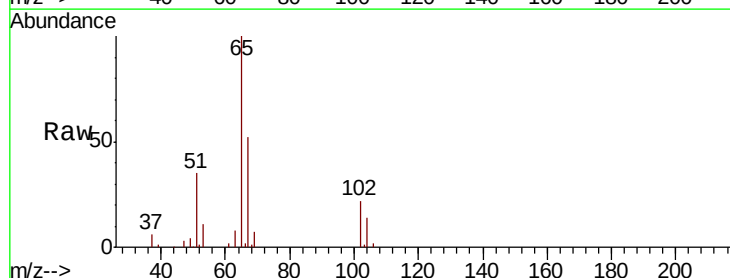


Abundance Ion 56.00 (55.70 to 56.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 84.00 (83.70 to 84.70): VN0

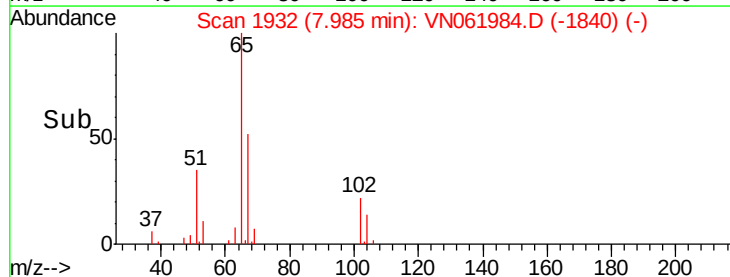
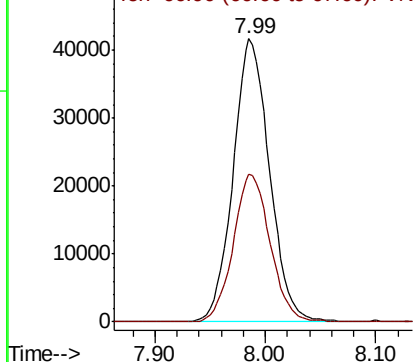


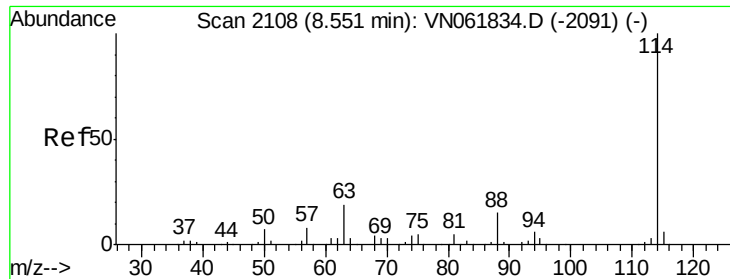
#33
1,2-Dichloroethane-d4
Concen: 51.981 ug/l
RT: 7.99 min Scan# 1932
Delta R.T. -0.00 min
Lab File: VN061984.D
Acq: 20 Jun 2020 8:04

Tgt Ion: 65 Resp: 95043
Ion Ratio Lower Upper
65 100
67 52.8 0.0 106.2



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

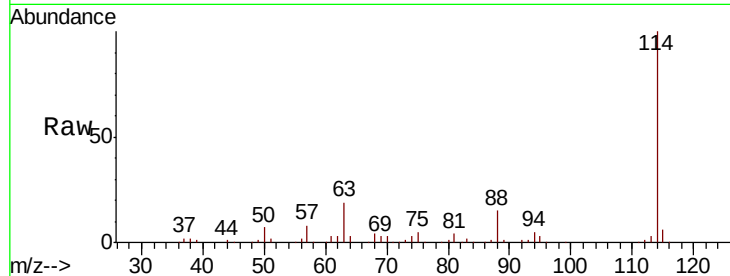




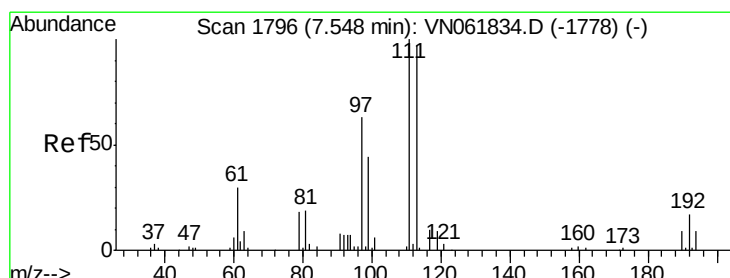
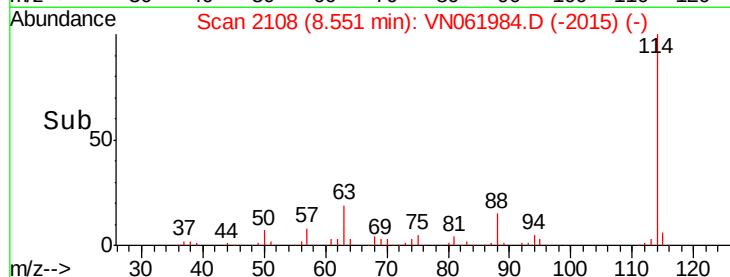
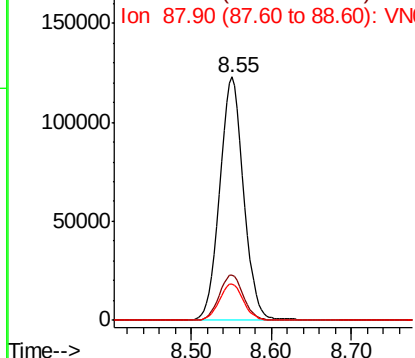
#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.55 min Scan# 2108
Delta R.T. -0.00 min
Lab File: VN061834.D
Acq: 20 Jun 2020 8:04

Instrument :
MSVOA_N
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RE139D1-20200612

Tot Ion:114 Resp: 253024
Ion Ratio Lower Upper
114 100
63 18.7 0.0 37.6
88 15.0 0.0 31.0

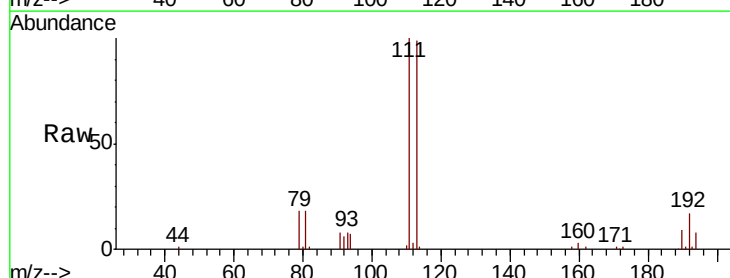


Abundance Ion 113.90 (113.60 to 114.60): V
Ion 63.00 (62.70 to 63.70): VN
Ion 87.90 (87.60 to 88.60): VN

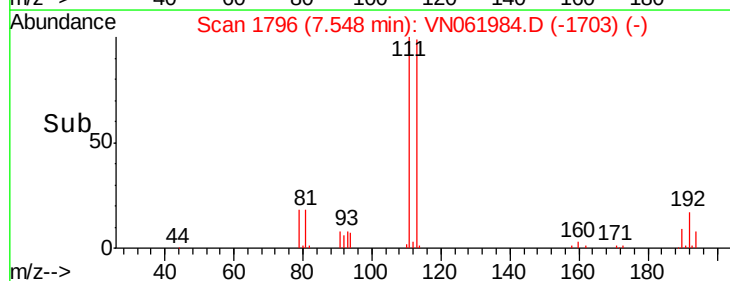
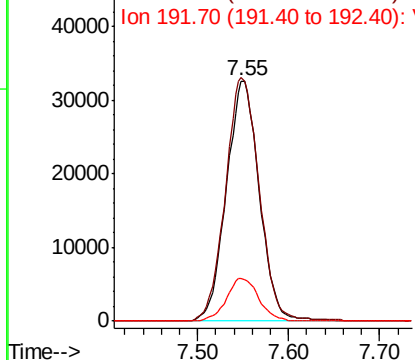


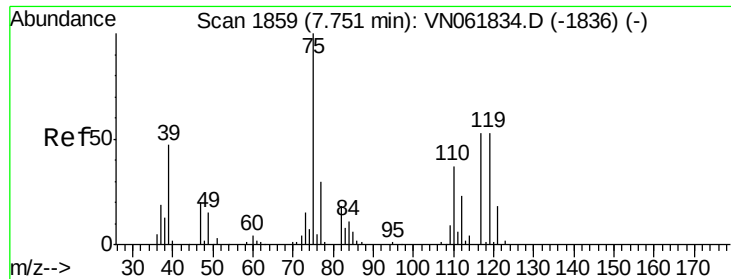
#35
Dibromofluoromethane
Concen: 50.596 ug/l
RT: 7.55 min Scan# 1796
Delta R.T. -0.00 min
Lab File: VN061834.D
Acq: 20 Jun 2020 8:04

Tgt Ion:113 Resp: 81900
Ion Ratio Lower Upper
113 100
111 103.7 83.7 125.5
192 17.3 13.9 20.9



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: 4.596 ug/l

RT: 7.63 min Scan# 1820

Delta R.T. -0.13 min

Lab File: VN061984.D

Acq: 20 Jun 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

RE139D1-20200612

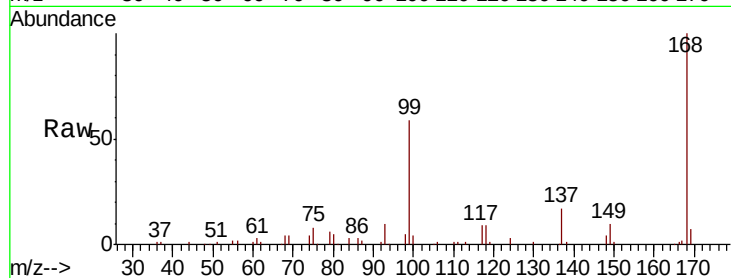
Tot Ion: 75 Resp: 10608

Ion Ratio Lower Upper

75 100

110 9.3 18.2 54.6#

77 0.0 24.2 36.4#

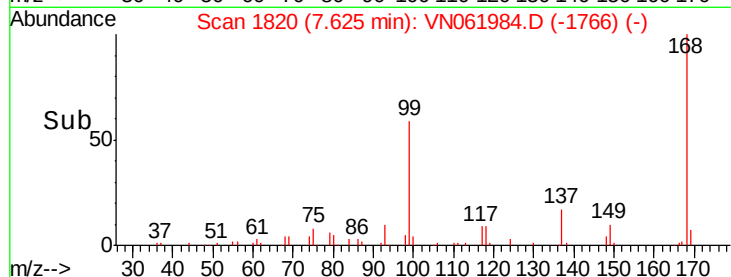


Abundance Ion 74.90 (74.60 to 75.60): VN061834.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN061834.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN061834.D (-1836) (-)

Time-->



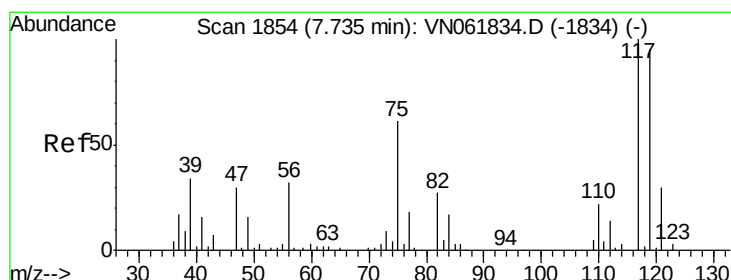
Abundance

Ion 74.90 (74.60 to 75.60): VN061834.D (-1836) (-)

Ion 109.90 (109.60 to 110.60): VN061834.D (-1836) (-)

Ion 76.90 (76.60 to 77.60): VN061834.D (-1836) (-)

Time-->



#38

Carbon Tetrachloride

Concen: 0.945 ug/l

RT: 7.73 min Scan# 1853

Delta R.T. -0.00 min

Lab File: VN061984.D

Acq: 20 Jun 2020 8:04

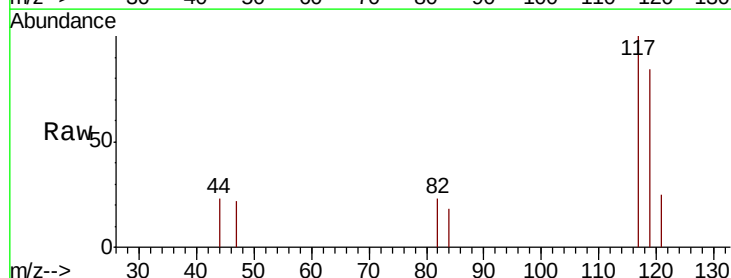
Tgt Ion: 117 Resp: 2160

Ion Ratio Lower Upper

117 100

119 83.7 75.8 113.6

121 25.1 23.8 35.6

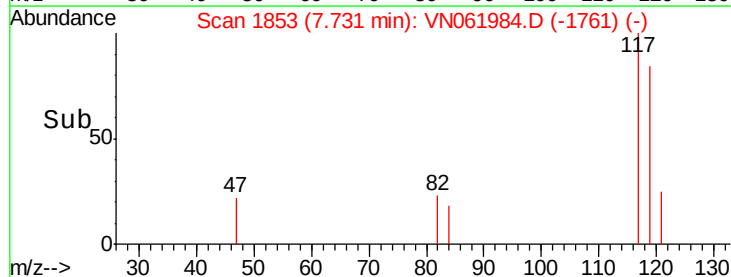


Abundance Ion 116.80 (116.50 to 117.50): VN061834.D (-1834) (-)

Ion 118.80 (118.50 to 119.50): VN061834.D (-1834) (-)

Ion 120.80 (120.50 to 121.50): VN061834.D (-1834) (-)

Time-->



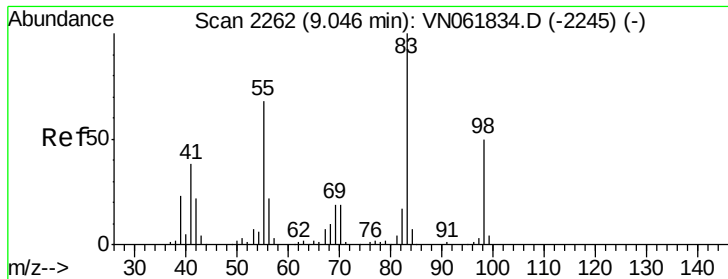
Abundance

Ion 116.80 (116.50 to 117.50): VN061834.D (-1834) (-)

Ion 118.80 (118.50 to 119.50): VN061834.D (-1834) (-)

Ion 120.80 (120.50 to 121.50): VN061834.D (-1834) (-)

Time-->



#39

Methylcyclohexane

Concen: 1.156 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.24 min

Lab File: VN061984.D

Acq: 20 Jun 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

RE139D1-20200612

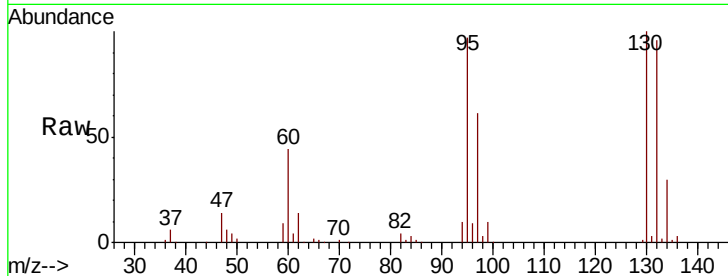
Tot Ion: 83 Resp: 2872

Ion Ratio Lower Upper

83 100

55 0.0 54.2 81.4#

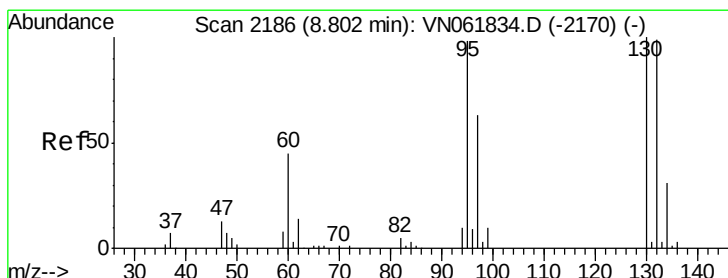
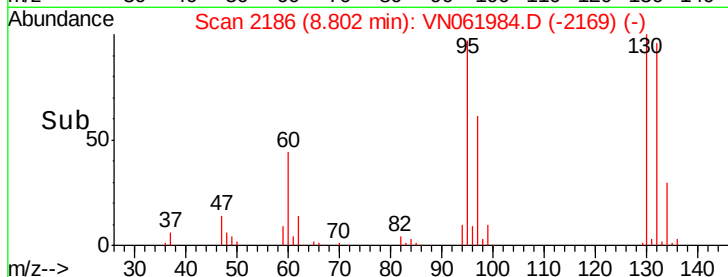
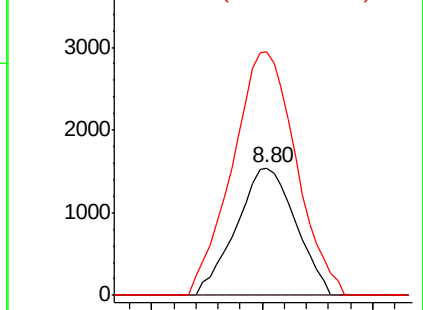
98 191.4 39.8 59.6#



Abundance Ion 83.00 (82.70 to 83.70): VN061834.D (-2245) (-)

Ion 55.00 (54.70 to 55.70): VN061834.D (-2245) (-)

Ion 98.00 (97.70 to 98.70): VN061834.D (-2245) (-)



#44

Trichloroethene

Concen: 124.677 ug/l

RT: 8.80 min Scan# 2186

Delta R.T. -0.00 min

Lab File: VN061984.D

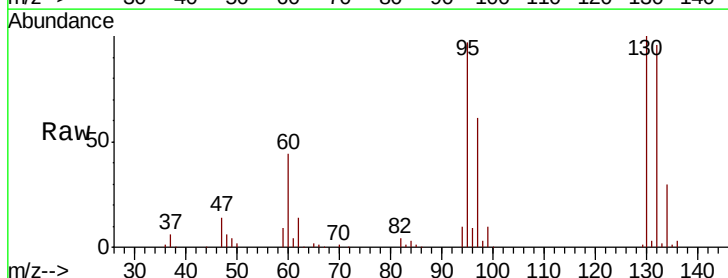
Acq: 20 Jun 2020 8:04

Tgt Ion:130 Resp: 229389

Ion Ratio Lower Upper

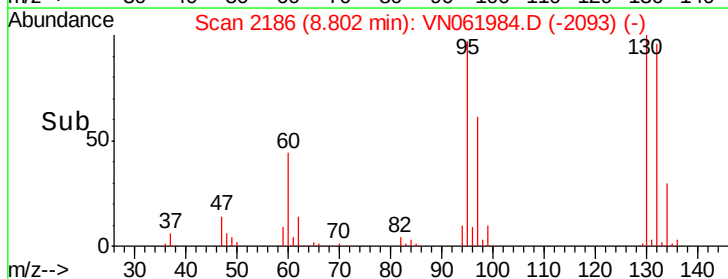
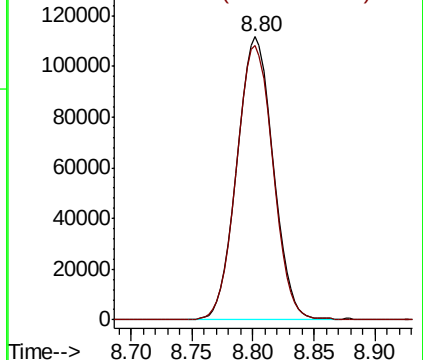
130 100

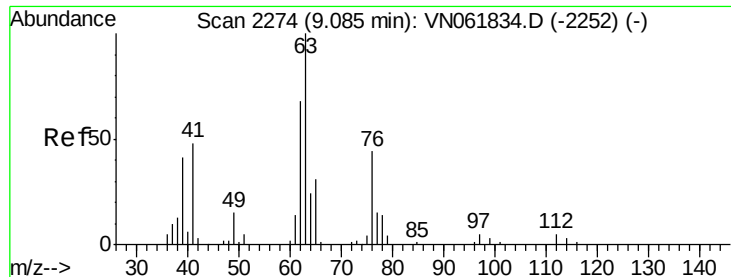
95 97.0 0.0 195.6



Abundance Ion 129.80 (129.50 to 130.50): VN061984.D (-2093) (-)

Ion 94.90 (94.60 to 95.60): VN061984.D (-2093) (-)

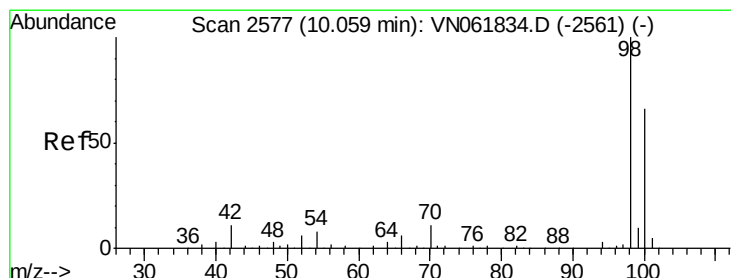
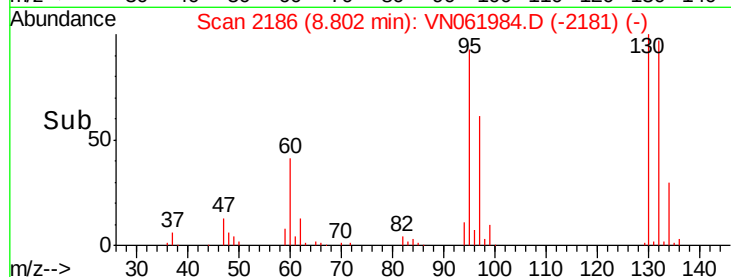
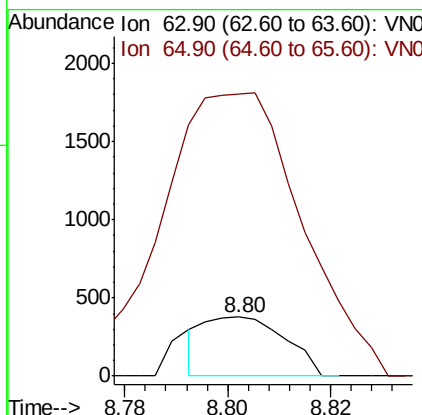
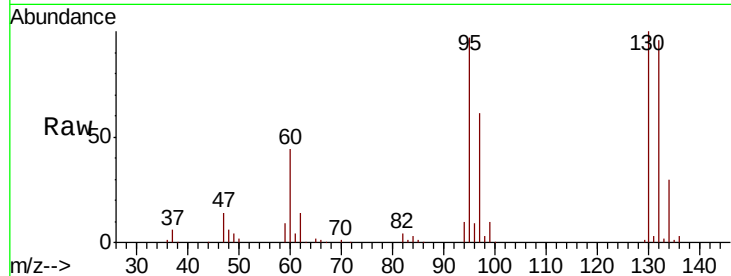




#45
 1,2-Dichloropropane
 Concen: 0.242 ug/l
 RT: 8.80 min Scan# 2186
 Delta R.T. -0.28 min
 Lab File: VN061984.D
 Acq: 20 Jun 2020 8:04

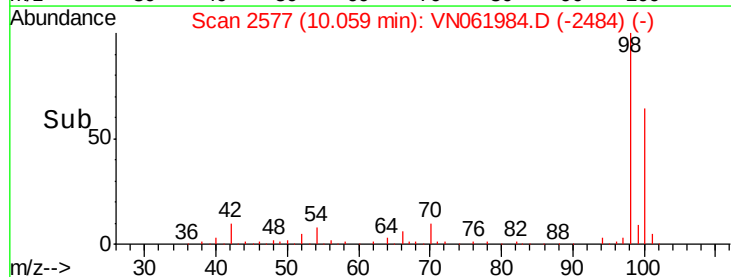
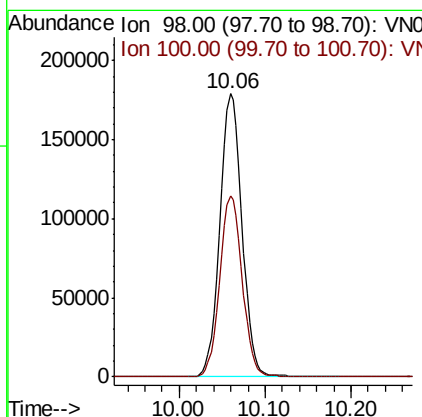
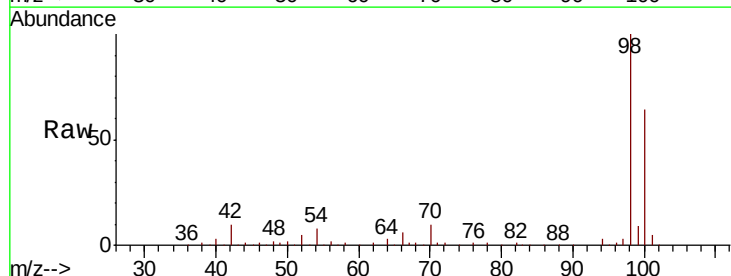
Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D1-20200612

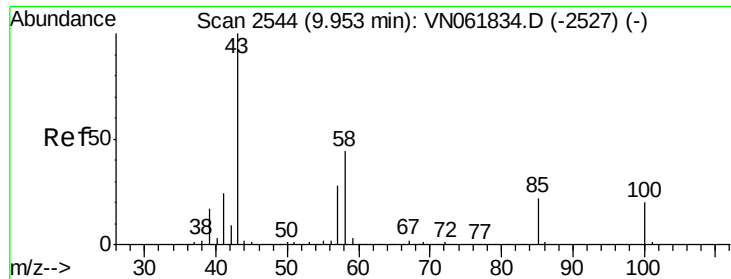
Tot Ion: 63 Resp: 415
 Ion Ratio Lower Upper
 63 100
 65 345.9 25.1 37.7#



#50
 Toluene-d8
 Concen: 50.345 ug/l
 RT: 10.06 min Scan# 2577
 Delta R.T. -0.00 min
 Lab File: VN061984.D
 Acq: 20 Jun 2020 8:04

Tgt Ion: 98 Resp: 320389
 Ion Ratio Lower Upper
 98 100
 100 64.9 52.7 79.1





#51

4-Methyl-2-Pentanone

Concen: 0.594 ug/l

RT: 10.06 min Scan# 2577

Delta R.T. 0.11 min

Lab File: VN061834.D

Acq: 20 Jun 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

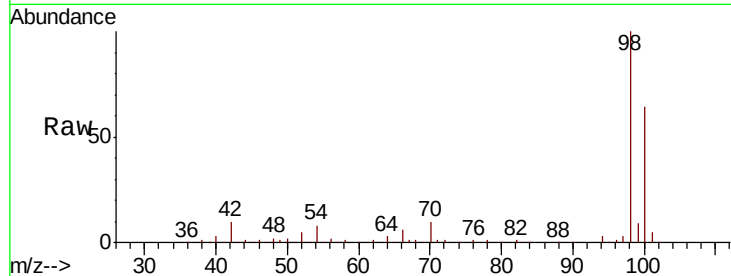
RE139D1-20200612

Tot Ion: 43 Resp: 1066

Ion Ratio Lower Upper

43 100

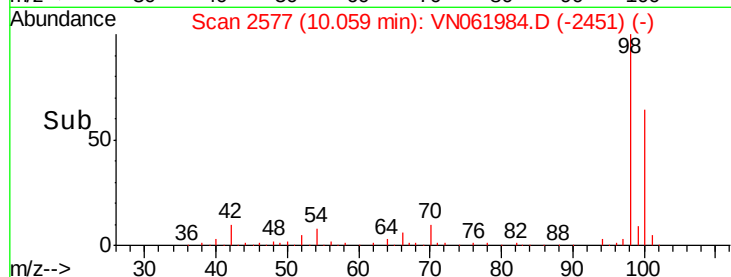
58 215.6 34.6 52.0#



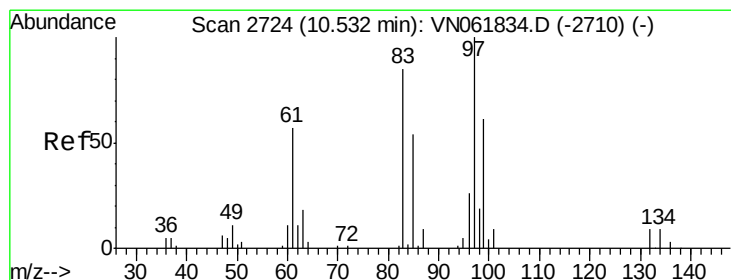
Abundance Ion 43.00 (42.70 to 43.70): VN061834.D (-2527) (-)

Ion 58.00 (57.70 to 58.70): VN061834.D (-2527) (-)

10.06



Time-->



#55

1,1,2-Trichloroethane

Concen: 0.871 ug/l

RT: 10.53 min Scan# 2724

Delta R.T. -0.00 min

Lab File: VN061834.D

Acq: 20 Jun 2020 8:04

Tgt Ion: 97 Resp: 1505

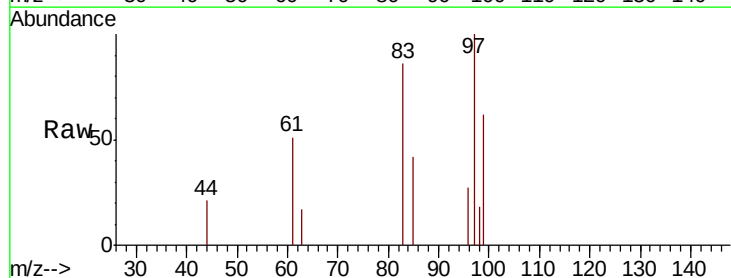
Ion Ratio Lower Upper

97 100

83 86.0 67.7 101.5

85 41.8 43.4 65.0#

99 62.0 48.8 73.2



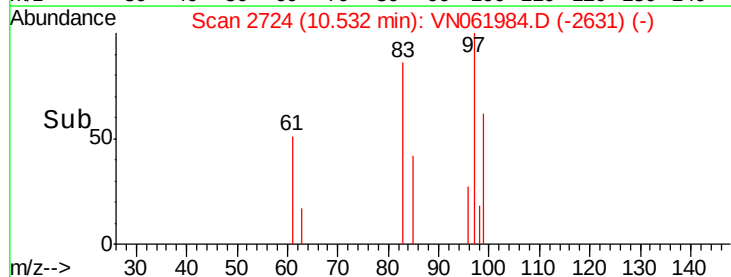
Abundance Ion 96.90 (96.60 to 97.60): VN061834.D (-2710) (-)

Ion 82.90 (82.60 to 83.60): VN061834.D (-2710) (-)

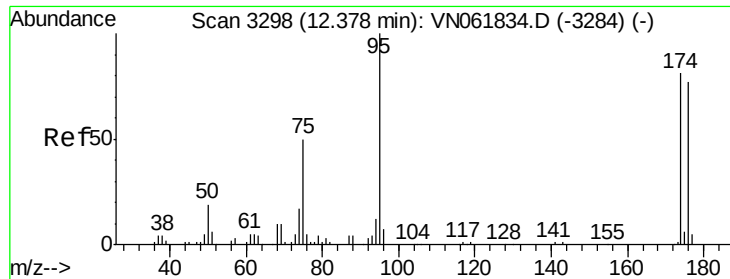
Ion 84.90 (84.60 to 85.60): VN061834.D (-2710) (-)

Ion 98.90 (98.60 to 99.60): VN061834.D (-2710) (-)

10.53



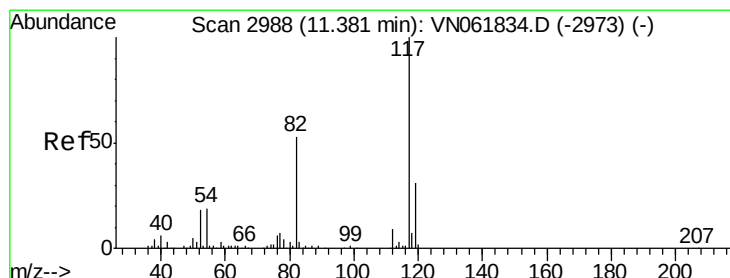
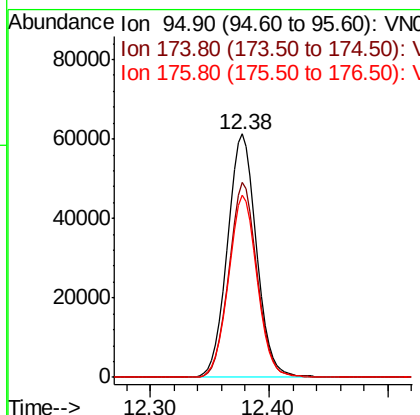
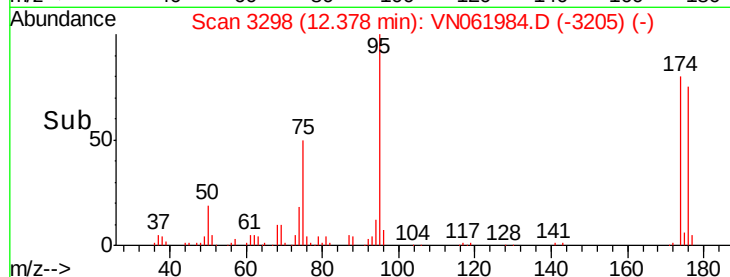
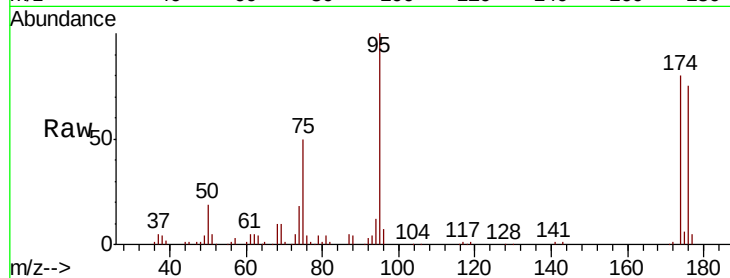
Time-->



#62
4-Bromofluorobenzene
Concen: 47.285 ug/l
RT: 12.38 min Scan# 3298
Delta R.T. -0.00 min
Lab File: VN061984.D
Acq: 20 Jun 2020 8:04

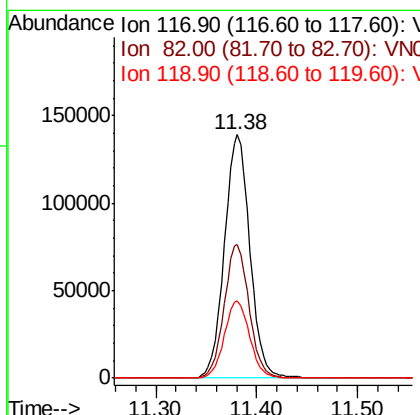
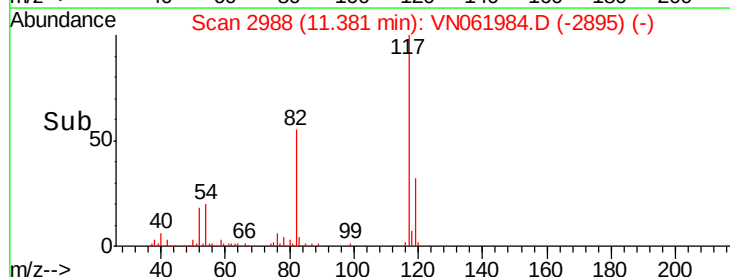
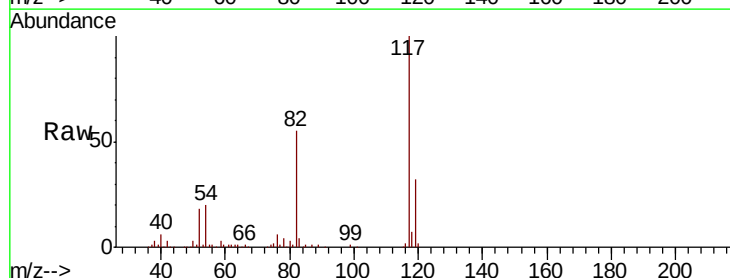
Instrument :
MSVOA_N
ClientSampleId :
RE139D1-20200612

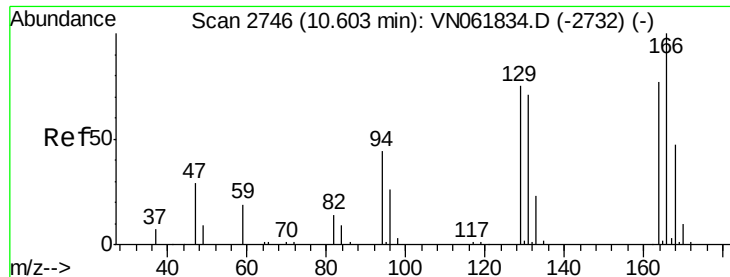
Tot Ion	95	Resp	103218
Ion Ratio	100		
Lower			
Upper			
95	100		
174	78.1	0.0	158.6
176	74.1	0.0	152.0



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.38 min Scan# 2988
Delta R.T. 0.00 min
Lab File: VN061984.D
Acq: 20 Jun 2020 8:04

Tgt Ion	117	Resp	245060
Ion Ratio <td>100</td> <td></td> <td></td>	100		
Lower <td></td> <td></td> <td></td>			
Upper <td></td> <td></td> <td></td>			
117	100		
82	54.6	42.6	64.0
119	31.8	24.7	37.1





#64

Tetrachloroethene

Concen: 0.239 ug/l

RT: 10.61 min Scan# 2747

Delta R.T. 0.00 min

Lab File: VN061984.D

Acq: 20 Jun 2020 8:04

Instrument :

MSVOA_N

ClientSampleId :

RE139D1-20200612

Tot Ion:164 Resp: 373

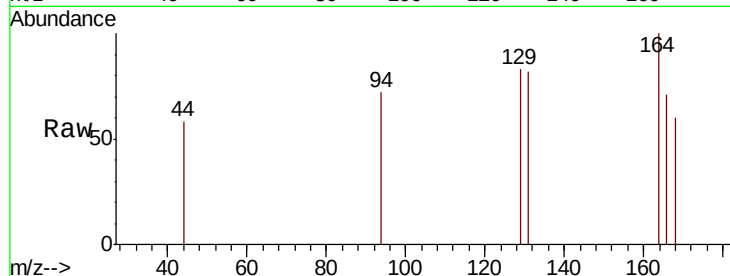
Ion Ratio Lower Upper

164 100

166 70.6 103.5 155.3#

129 82.8 77.5 116.3

131 82.1 73.8 110.8

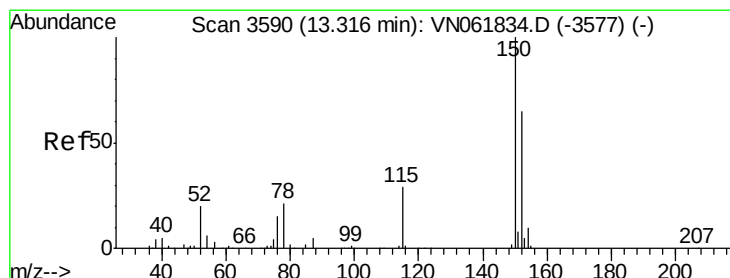
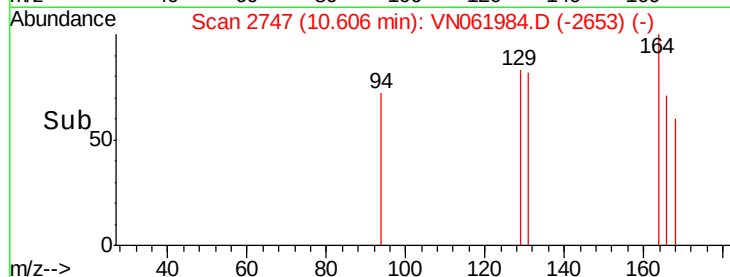
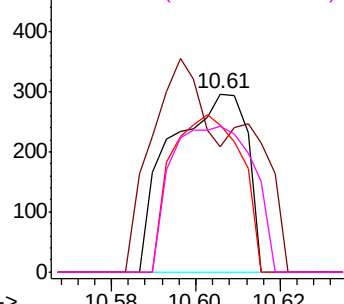


Abundance Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.32 min Scan# 3591

Delta R.T. 0.00 min

Lab File: VN061984.D

Acq: 20 Jun 2020 8:04

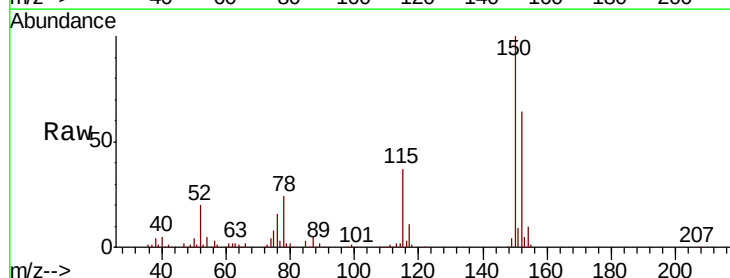
Tgt Ion:152 Resp: 92378

Ion Ratio Lower Upper

152 100

115 57.7 29.1 87.3

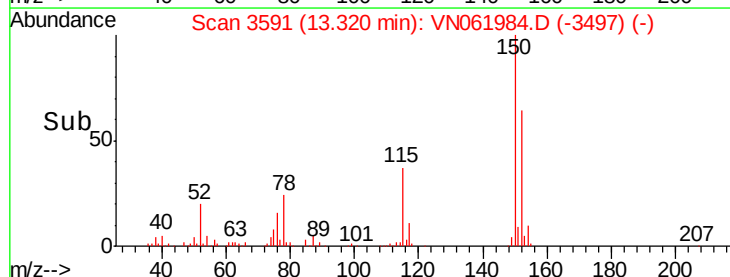
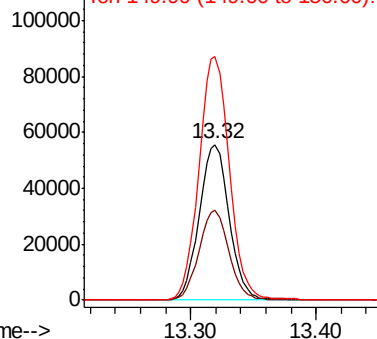
150 159.4 0.0 347.6

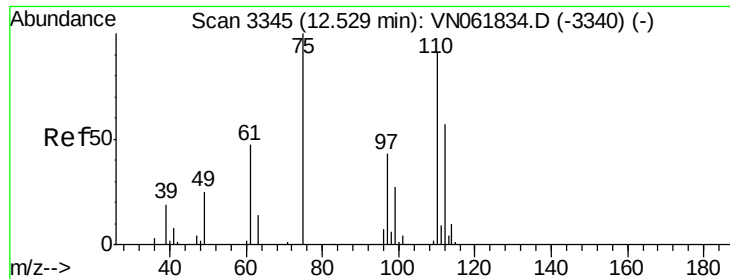


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V

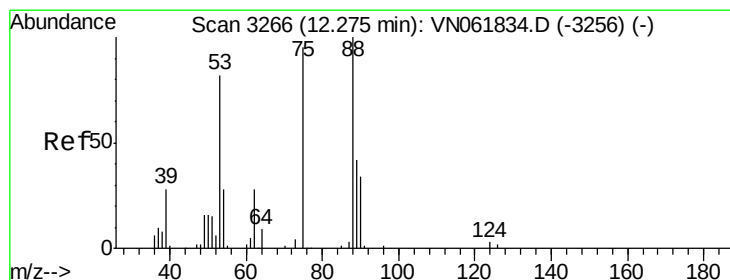
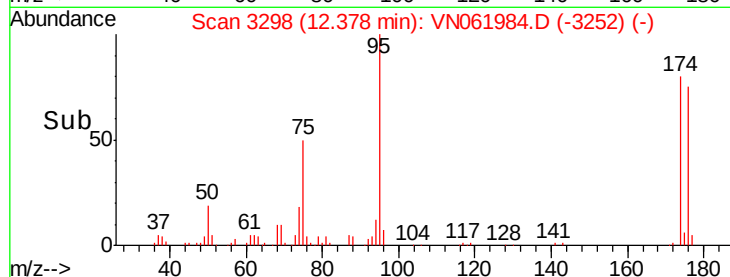
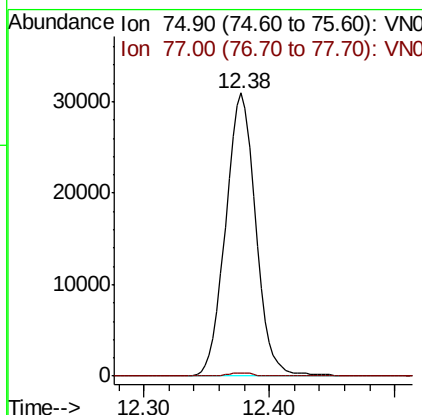
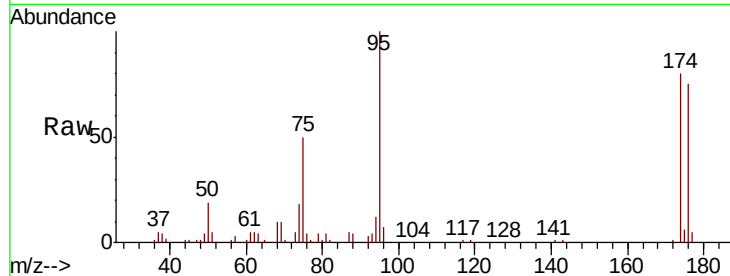




#76
 1,2,3-Trichloropropane
 Concen: 28.394 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. -0.15 min
 Lab File: VN061984.D
 Acq: 20 Jun 2020 8:04

Instrument :
 MSVOA_N
 ClientSampleId :
 RE139D1-20200612

Tot Ion: 75 Resp: 51495
 Ion Ratio Lower Upper
 75 100
 77 0.9 0.0 0.0#



#81
 trans-1,4-Dichloro-2-butene
 Concen: 77.441 ug/l
 RT: 12.38 min Scan# 3298
 Delta R.T. 0.10 min
 Lab File: VN061984.D
 Acq: 20 Jun 2020 8:04

Tgt Ion: 75 Resp: 51495
 Ion Ratio Lower Upper
 75 100
 53 0.0 70.4 105.6#
 89 0.0 36.0 54.0#

