

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN120224\
 Data File : VN085069.D
 Acq On : 02 Dec 2024 14:54
 Operator : JC\MD
 Sample : P5005-02
 Misc : 5.0mL/MSVOA_N/WATER
 ALS Vial : 9 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Dec 03 00:49:57 2024
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
 Quant Title : SW846 8260
 QLast Update : Sat Nov 23 02:54:10 2024
 Response via : Initial Calibration

Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)

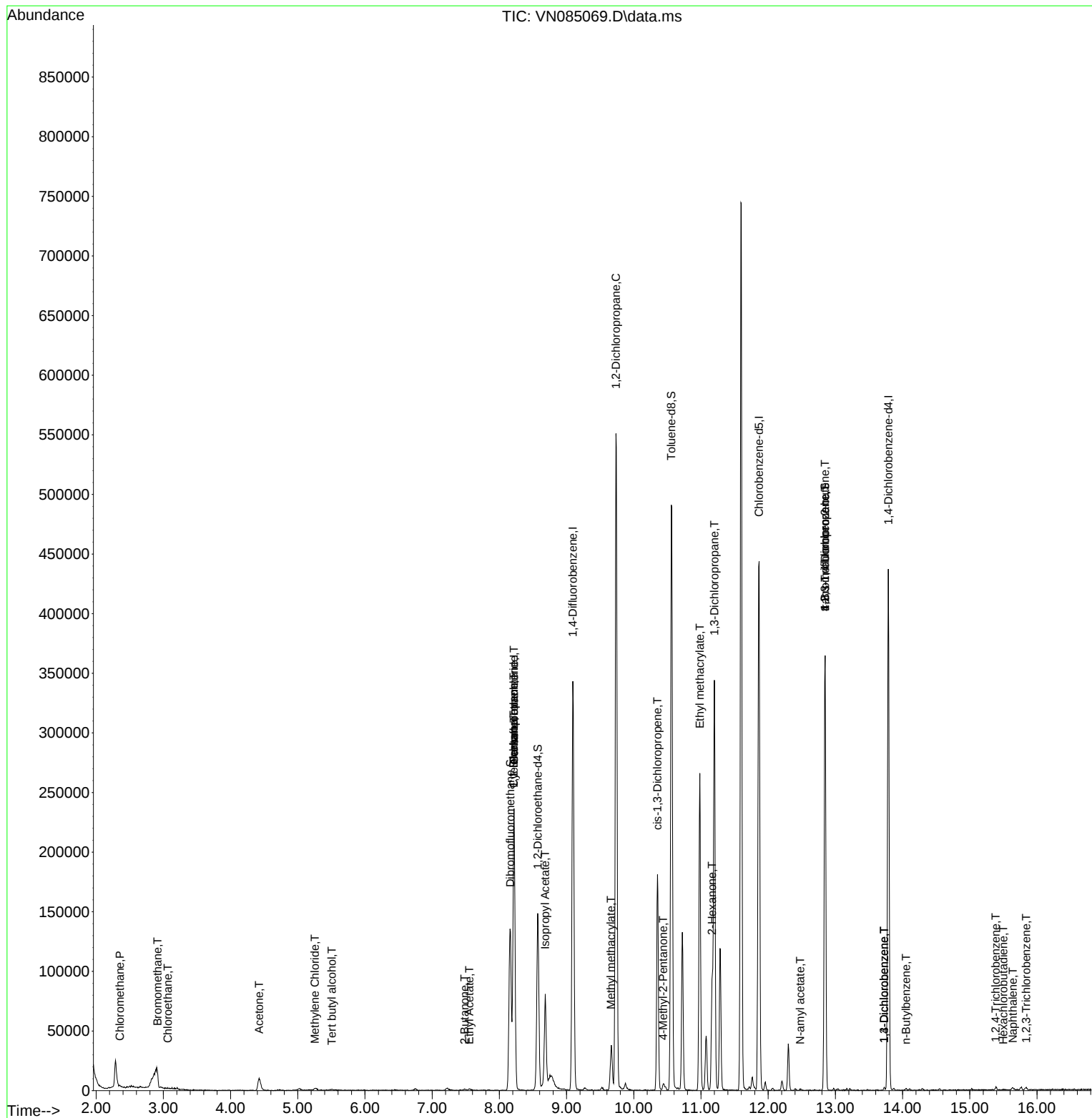
Internal Standards						
1) Pentafluorobenzene	8.218	168	166566	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.094	114	296767	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	265960	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	115792	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.571	65	120857	50.938	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 101.880%			
35) Dibromofluoromethane	8.165	113	100573	50.254	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 100.500%			
50) Toluene-d8	10.559	98	347490	48.450	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 96.900%			
62) 4-Bromofluorobenzene	12.847	95	129381	48.238	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 96.480%			
Target Compounds						Qvalue
3) Chloromethane	2.353	50	664	0.304	ug/l #	40
5) Bromomethane	2.912	94	370	0.336	ug/l #	41
6) Chloroethane	3.065	64	495	0.374	ug/l #	44
11) Tert butyl alcohol	5.506	59	687	2.167	ug/l #	75
16) Acetone	4.424	43	19568	28.319	ug/l	90
20) Methylene Chloride	5.253	84	468	0.222	ug/l #	89
25) 2-Butanone	7.483	43	1923	1.702	ug/l #	85
31) Cyclohexane	8.212	56	3307	1.046	ug/l #	1
36) 1,1-Dichloropropene	8.212	75	13423	4.952	ug/l #	50
37) Ethyl Acetate	7.553	43	2132	0.865	ug/l #	75
38) Carbon Tetrachloride	8.218	117	17678	5.650	ug/l #	15
43) Isopropyl Acetate	8.682	43	87861	17.164	ug/l #	91
45) 1,2-Dichloropropane	9.735	63	644	0.305	ug/l #	45
48) Methyl methacrylate	9.659	41	2184	1.147	ug/l #	40
51) 4-Methyl-2-Pentanone	10.435	43	6749	2.887	ug/l #	65
54) cis-1,3-Dichloropropene	10.353	75	33828	10.227	ug/l #	62
56) Ethyl methacrylate	10.982	69	1292	0.468	ug/l #	1
57) 1,3-Dichloropropane	11.200	76	3448	1.036	ug/l #	42
59) 2-Hexanone	11.165	43	81457	46.583	ug/l #	23
74) N-amyl acetate	12.476	43	691	0.205	ug/l #	42
76) 1,2,3-Trichloropropane	12.847	75	66189	31.426	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.847	75	66189	69.376	ug/l #	10
87) 1,3-Dichlorobenzene	13.723	146	1104	0.255	ug/l	83
88) 1,4-Dichlorobenzene	13.723	146	1104	0.250	ug/l	85
89) n-Butylbenzene	14.053	91	1256	0.205	ug/l #	81
93) 1,2,4-Trichlorobenzene	15.388	180	951	0.421	ug/l	81
94) Hexachlorobutadiene	15.500	225	240	0.230	ug/l #	19
95) Naphthalene	15.641	128	2584	0.402	ug/l #	86
96) 1,2,3-Trichlorobenzene	15.841	180	1219	0.566	ug/l #	91

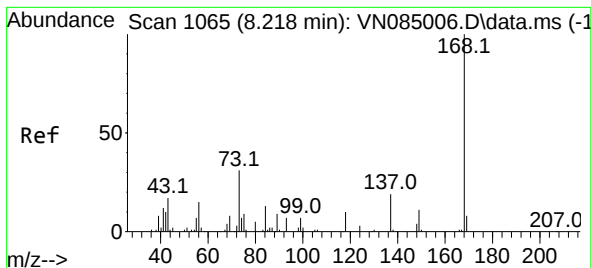
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Time: Dec 03 00:49:57 2024
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N112224W.M
Quant Title : SW846 8260
QLast Update : Sat Nov 23 02:54:10 2024
Response via : Initial Calibration

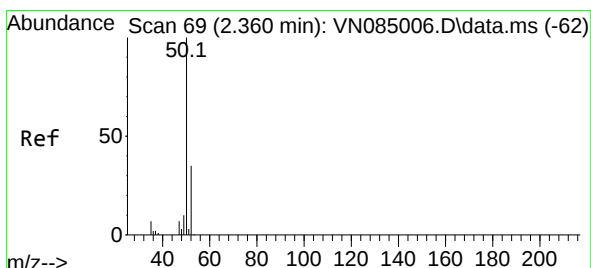
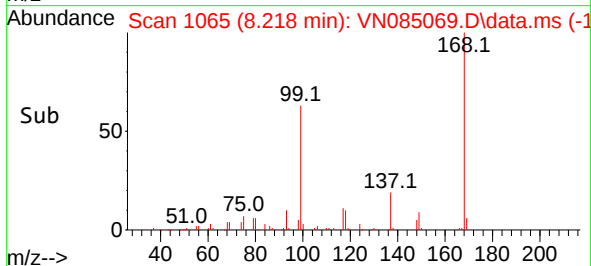
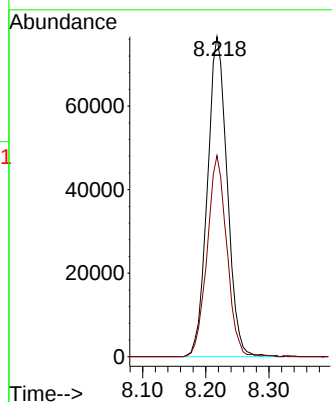
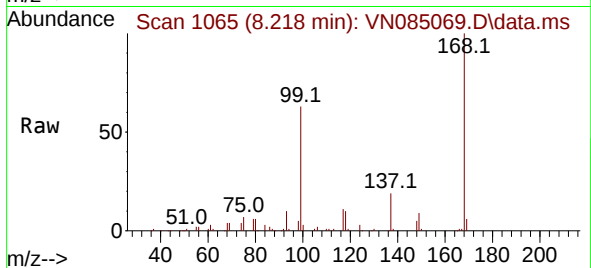




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.000 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

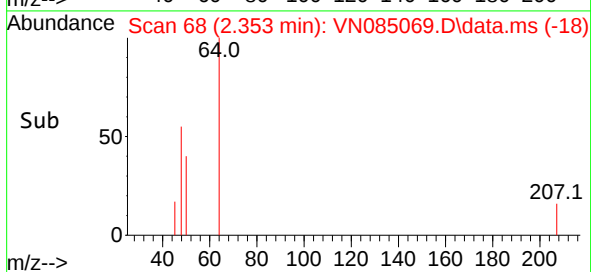
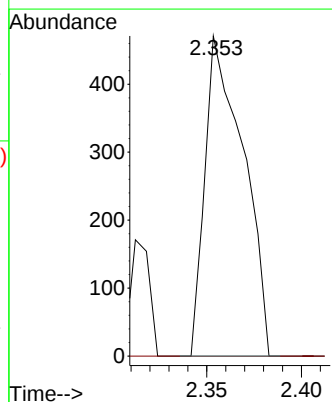
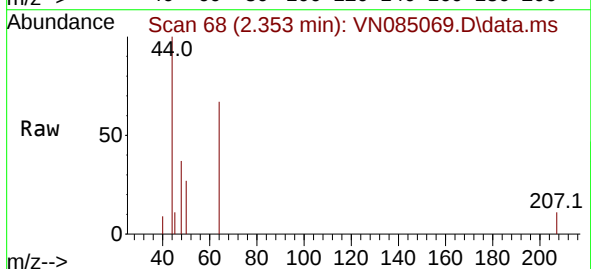
Instrument :
MSVOA_N
ClientSampleId :

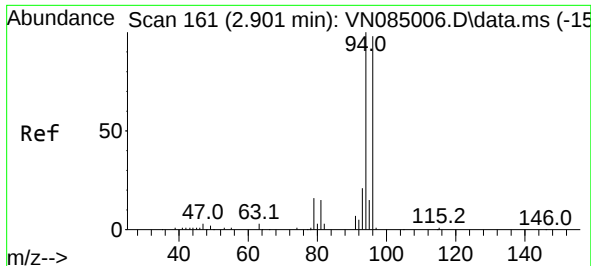
Tgt Ion:168 Resp: 166566
Ion Ratio Lower Upper
168 100
99 62.8 51.2 76.8



#3
Chloromethane
Concen: 0.304 ug/l
RT: 2.353 min Scan# 68
Delta R.T. -0.006 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

Tgt Ion: 50 Resp: 664
Ion Ratio Lower Upper
50 100
52 0.0 27.8 41.8#

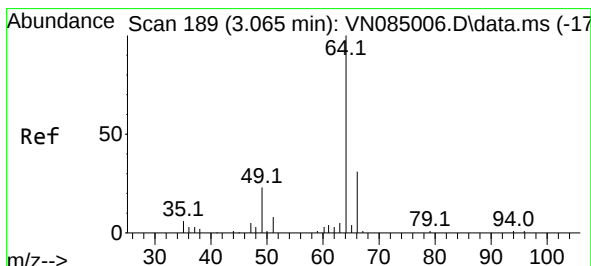
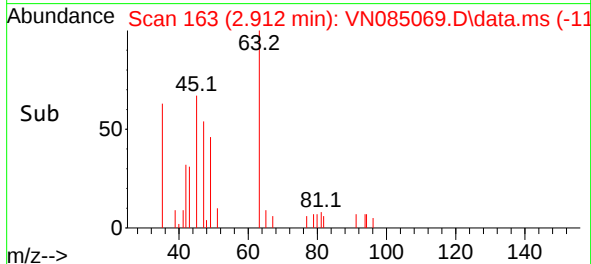
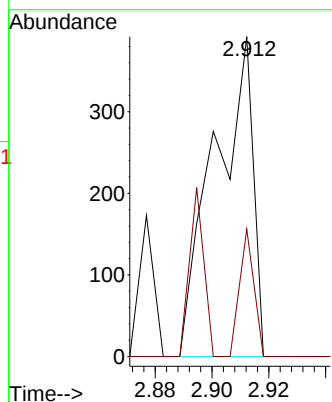
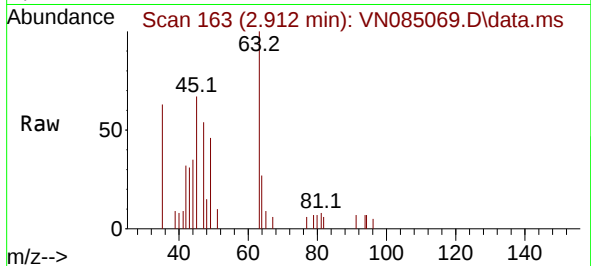




#5
Bromomethane
Concen: 0.336 ug/l
RT: 2.912 min Scan# 163
Delta R.T. 0.012 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

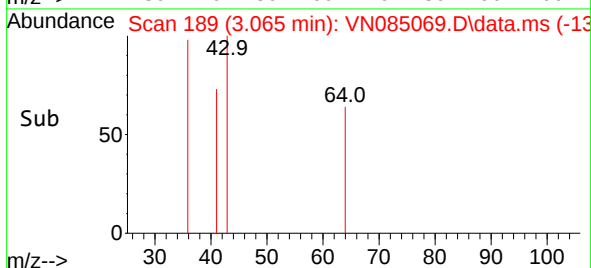
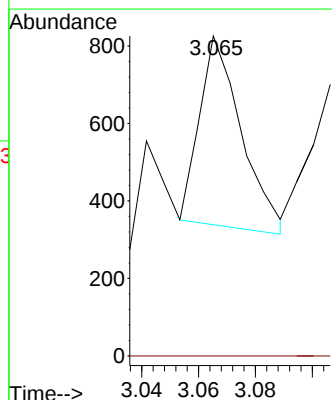
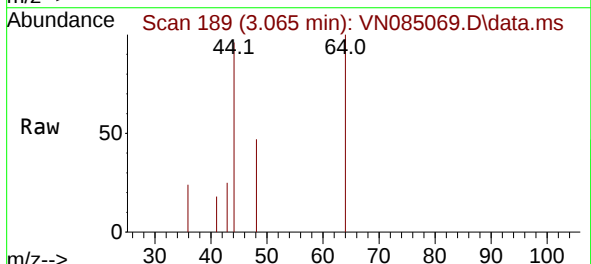
Instrument :
MSVOA_N
ClientSampleId :

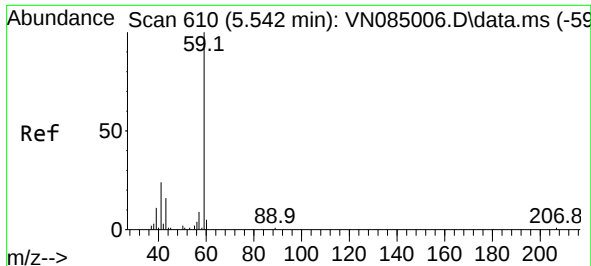
Tgt Ion: 94 Resp: 370
Ion Ratio Lower Upper
94 100
96 39.8 78.7 118.1#



#6
Chloroethane
Concen: 0.374 ug/l
RT: 3.065 min Scan# 189
Delta R.T. -0.000 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

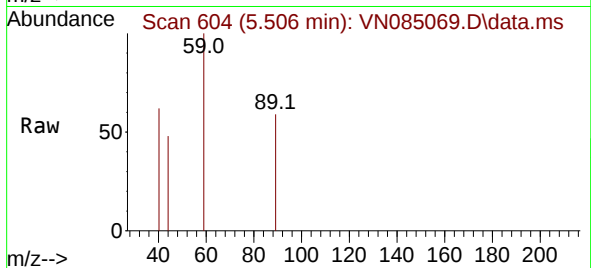
Tgt Ion: 64 Resp: 495
Ion Ratio Lower Upper
64 100
66 0.0 24.4 36.6#



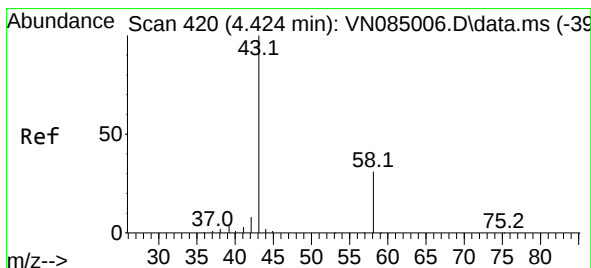
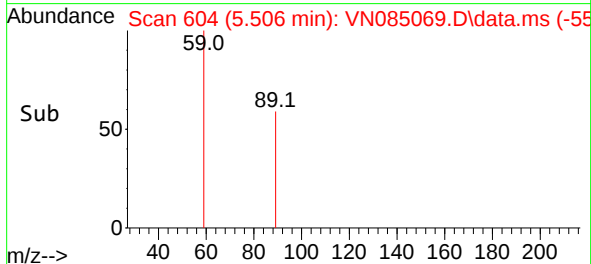
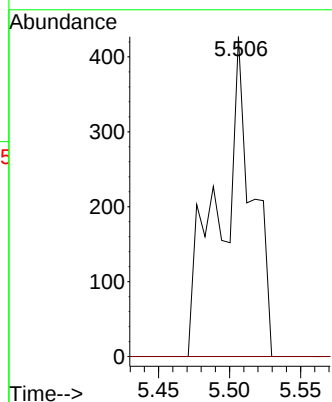


#11
Tert butyl alcohol
Concen: 2.167 ug/l
RT: 5.506 min Scan# 604
Delta R.T. -0.035 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

Instrument :
MSVOA_N
ClientSampleId :

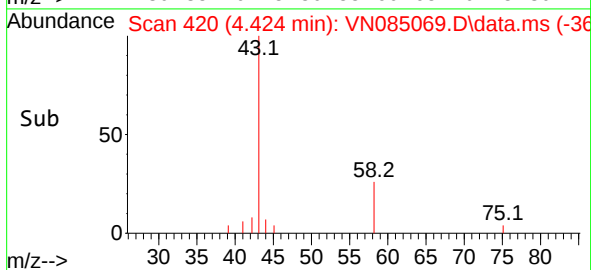
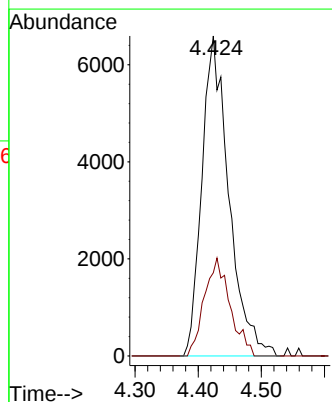
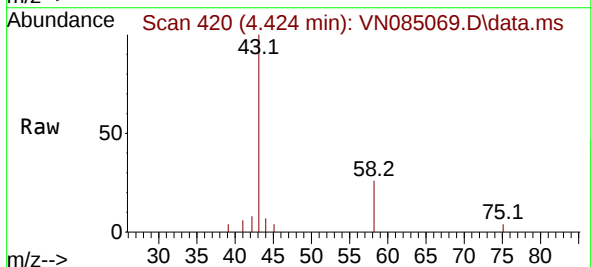


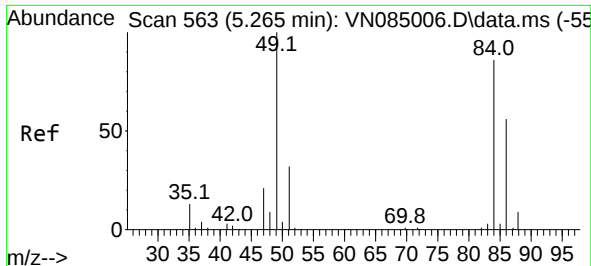
Tgt Ion: 59 Resp: 687
Ion Ratio Lower Upper
59 100
57 0.0 7.4 11.0#



#16
Acetone
Concen: 28.319 ug/l
RT: 4.424 min Scan# 420
Delta R.T. -0.000 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

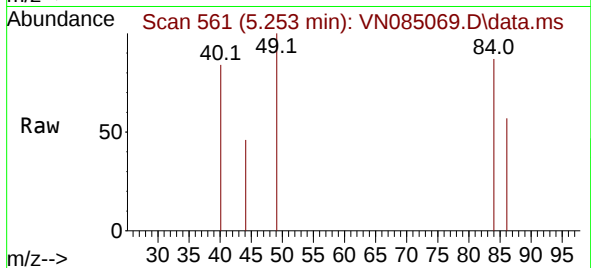
Tgt Ion: 43 Resp: 19568
Ion Ratio Lower Upper
43 100
58 26.0 25.4 38.2





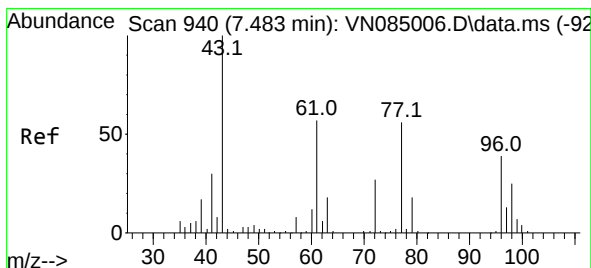
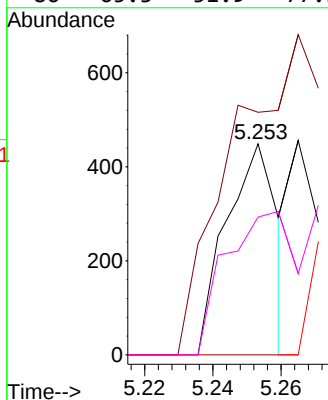
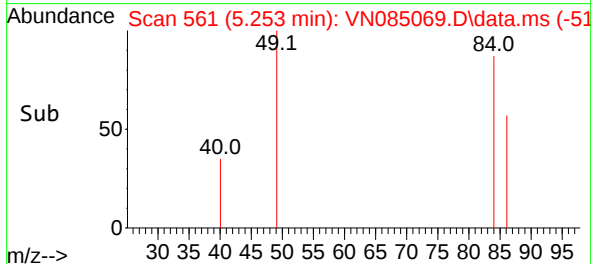
#20
Methylene Chloride
Concen: 0.222 ug/l
RT: 5.253 min Scan# 51
Delta R.T. -0.012 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion: 84 Resp: 468

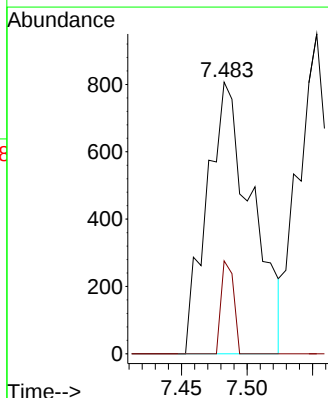
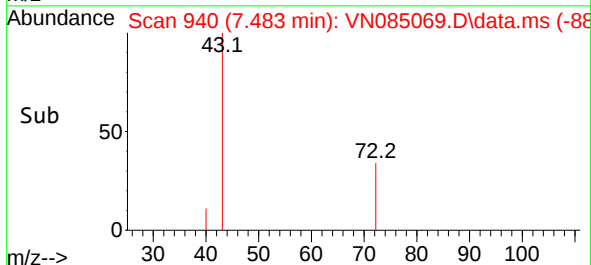
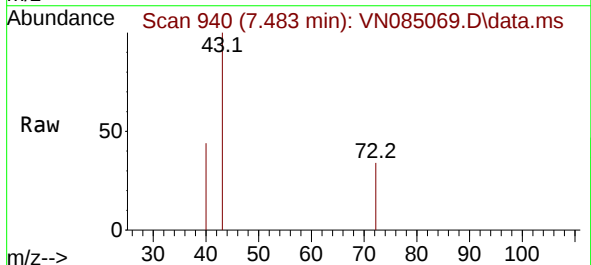
Ion	Ratio	Lower	Upper
84	100		
49	114.9	92.7	139.1
51	0.0	29.4	44.2#
86	65.3	51.9	77.9

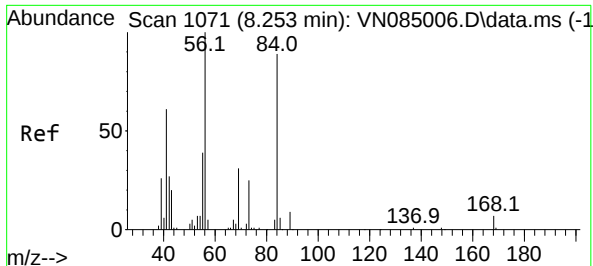


#25
2-Butanone
Concen: 1.702 ug/l
RT: 7.483 min Scan# 940
Delta R.T. -0.000 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

Tgt Ion: 43 Resp: 1923

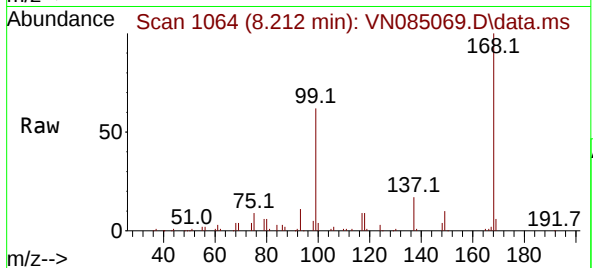
Ion	Ratio	Lower	Upper
43	100		
72	34.2	21.4	32.0#



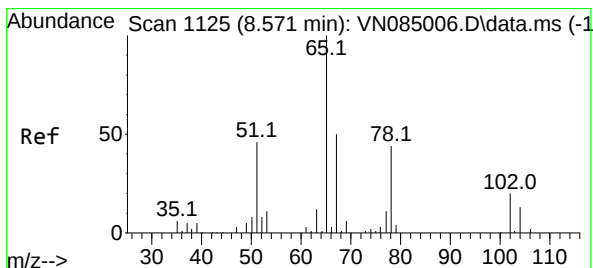
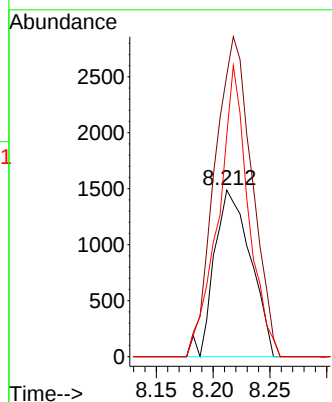
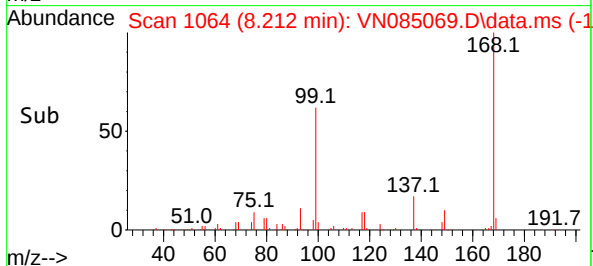


#31
Cyclohexane
Concen: 1.046 ug/l
RT: 8.212 min Scan# 1064
Delta R.T. -0.041 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

Instrument :
MSVOA_N
ClientSampleId :

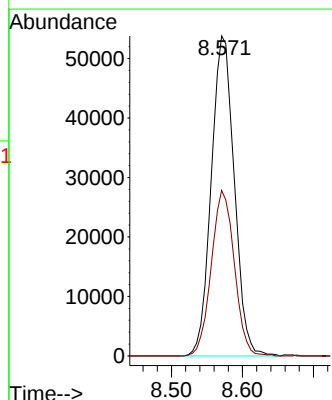
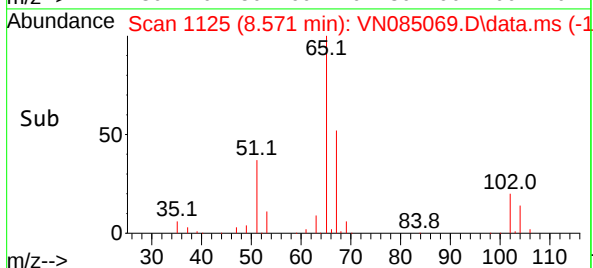
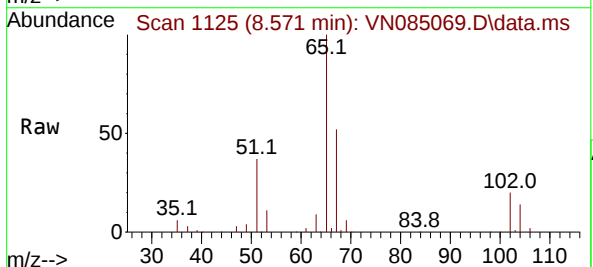


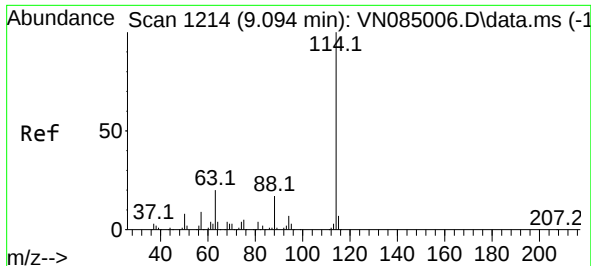
Tgt Ion: 56 Resp: 3307
Ion Ratio Lower Upper
56 100
69 169.1 24.6 36.8#
84 133.1 71.4 107.2#



#33
1,2-Dichloroethane-d4
Concen: 50.938 ug/l
RT: 8.571 min Scan# 1125
Delta R.T. -0.000 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

Tgt Ion: 65 Resp: 120857
Ion Ratio Lower Upper
65 100
67 51.8 0.0 105.0





#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.094 min Scan# 11

Delta R.T. -0.000 min

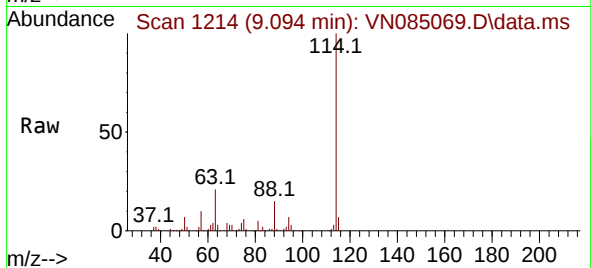
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Acq: 02 Dec 2024 14:54

Instrument :

MSVOA_N

ClientSampleId :



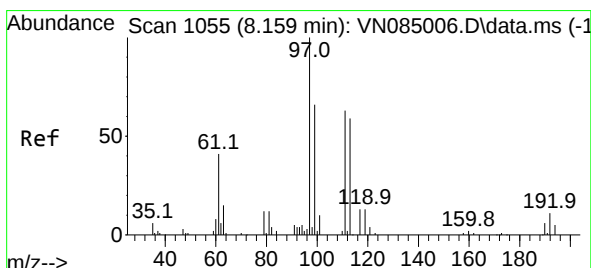
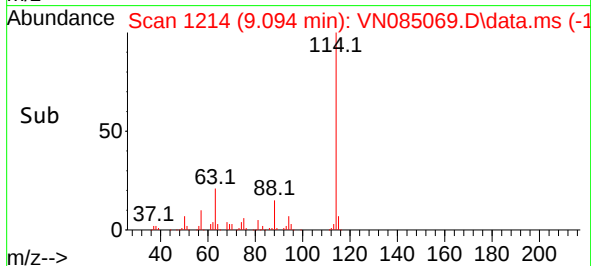
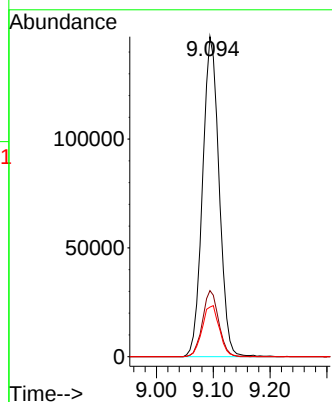
Tgt Ion:114 Resp: 296767

Ion Ratio Lower Upper

114 100

63 20.6 0.0 41.0

88 15.5 0.0 34.8



#35

Dibromofluoromethane

Concen: 50.254 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

Lab File: VN085069.D

Acq: 02 Dec 2024 14:54

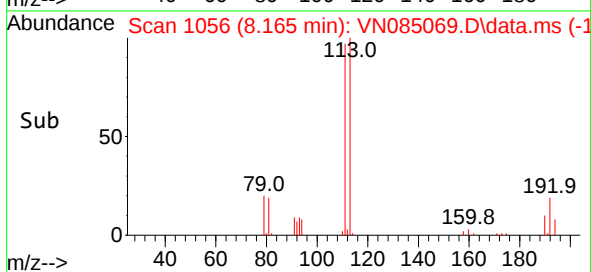
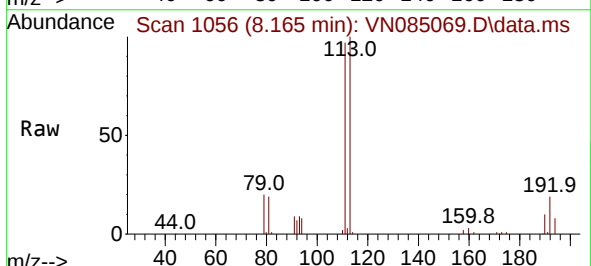
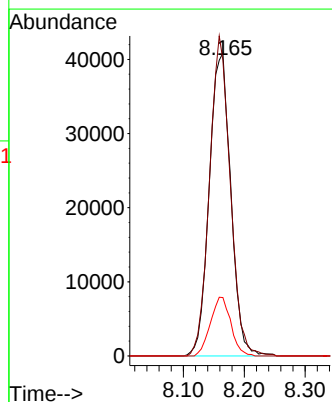
Tgt Ion:113 Resp: 100573

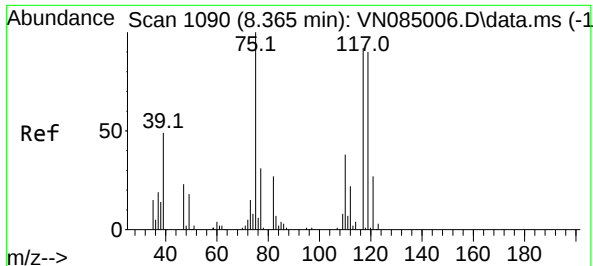
Ion Ratio Lower Upper

113 100

111 101.5 82.0 123.0

192 18.4 14.8 22.2





#36

1,1-Dichloropropene

Concen: 4.952 ug/l

RT: 8.212 min Scan# 1

Delta R.T. -0.153 min

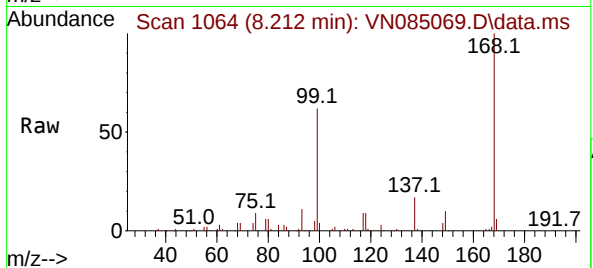
Lab File: VN085069.D

Acq: 02 Dec 2024 14:54

Instrument :

MSVOA_N

ClientSampleId :



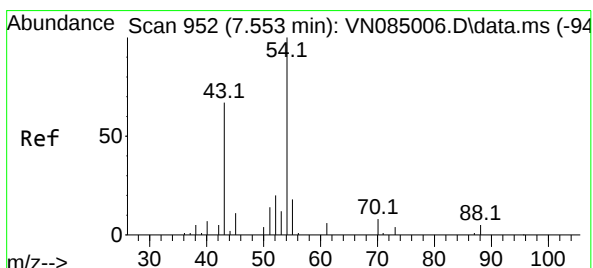
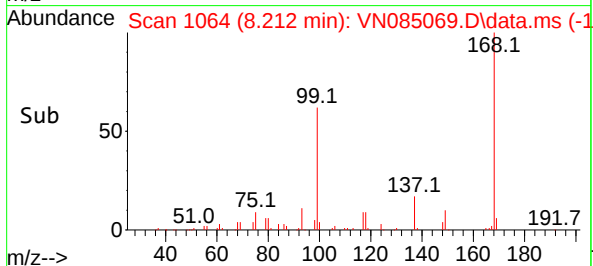
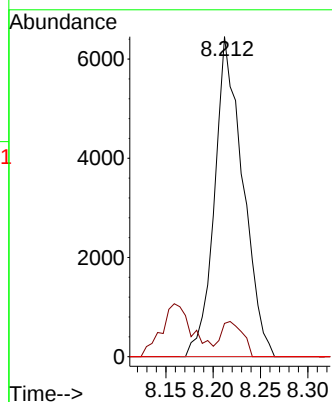
Tgt Ion: 75 Resp: 13423

Ion Ratio Lower Upper

75 100

110 8.4 17.2 51.6#

77 0.0 24.2 36.4#



#37

Ethyl Acetate

Concen: 0.865 ug/l

RT: 7.553 min Scan# 952

Delta R.T. -0.000 min

Lab File: VN085069.D

Acq: 02 Dec 2024 14:54

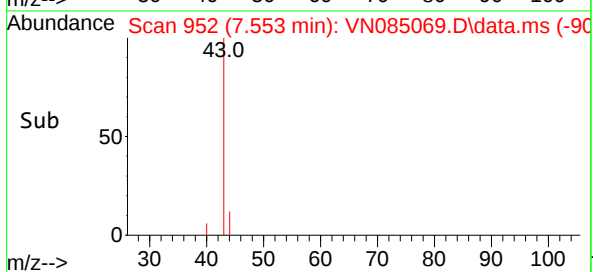
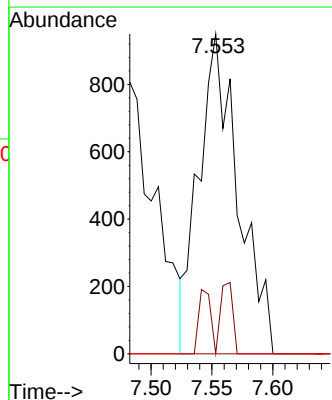
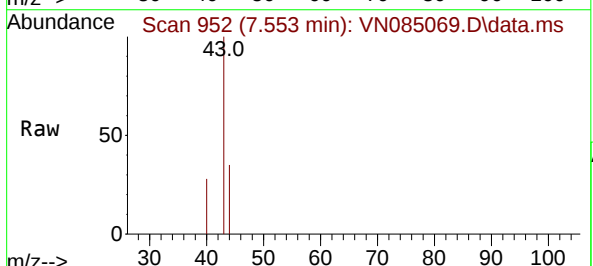
Tgt Ion: 43 Resp: 2132

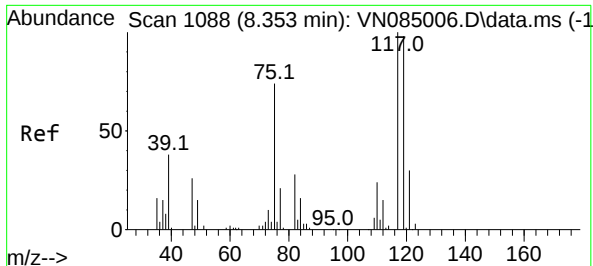
Ion Ratio Lower Upper

43 100

61 6.1 11.7 17.5#

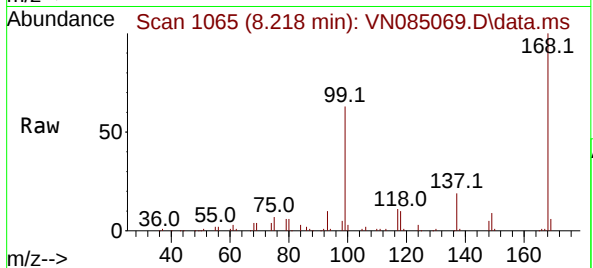
70 0.0 9.3 13.9#



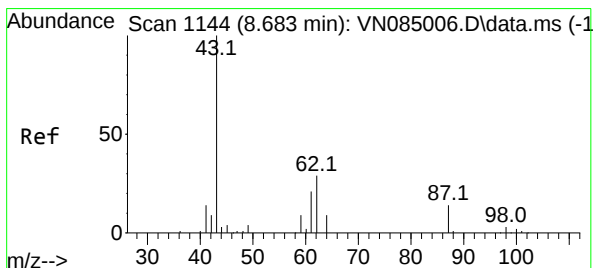
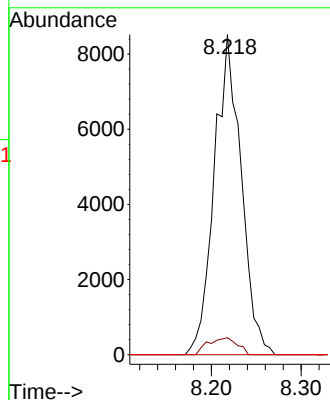
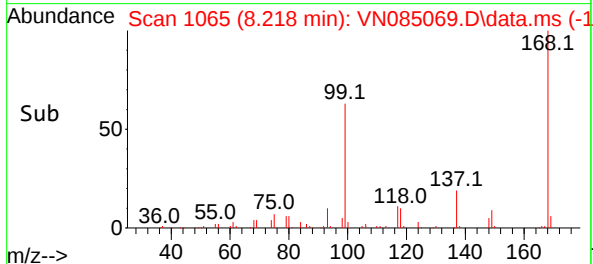


#38
Carbon Tetrachloride
Concen: 5.650 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.135 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

Instrument :
MSVOA_N
ClientSampleId :

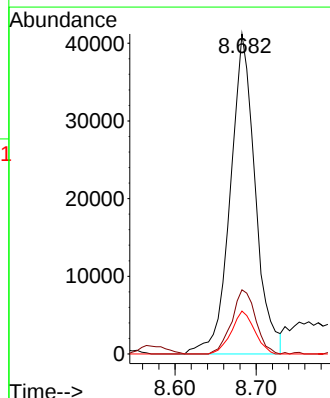
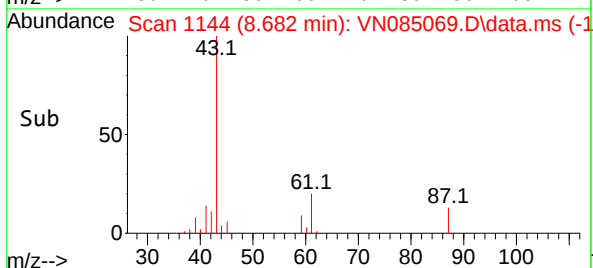
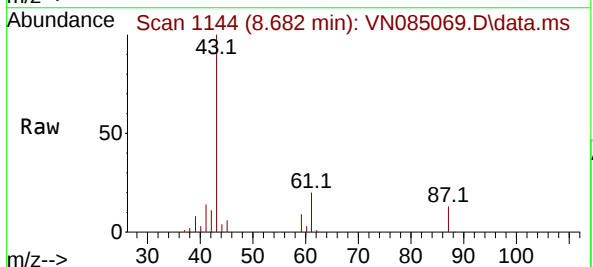


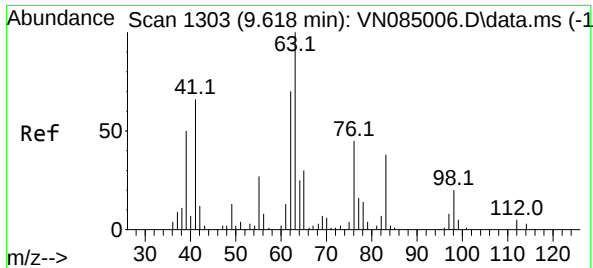
Tgt Ion:117 Resp: 17678
Ion Ratio Lower Upper
117 100
119 5.3 78.6 117.8#
121 0.0 24.2 36.2#



#43
Isopropyl Acetate
Concen: 17.164 ug/l
RT: 8.682 min Scan# 1144
Delta R.T. -0.000 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

Tgt Ion: 43 Resp: 87861
Ion Ratio Lower Upper
43 100
61 19.2 20.6 30.8#
87 12.4 11.0 16.4

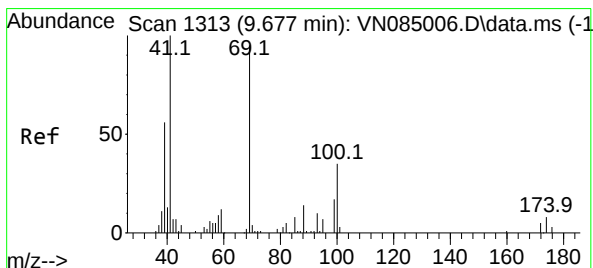
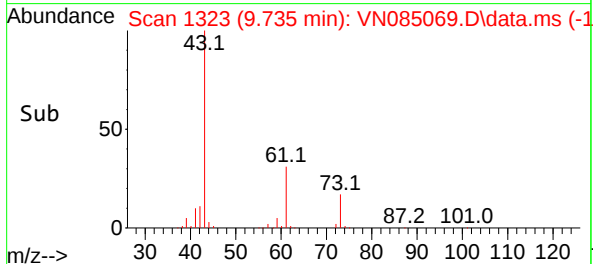
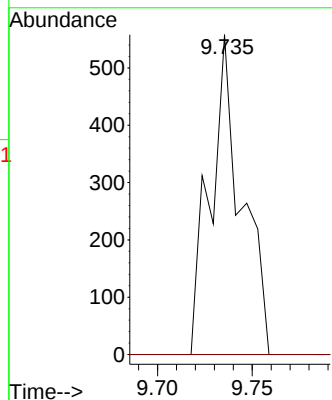
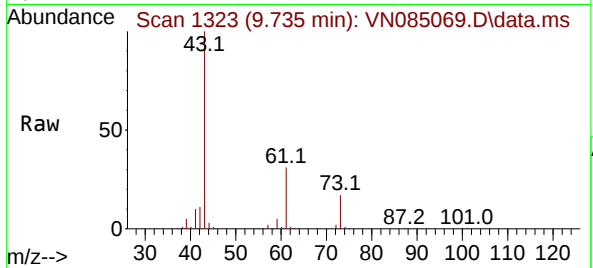




#45
1,2-Dichloropropane
Concen: 0.305 ug/l
RT: 9.735 min Scan# 11
Delta R.T. 0.117 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

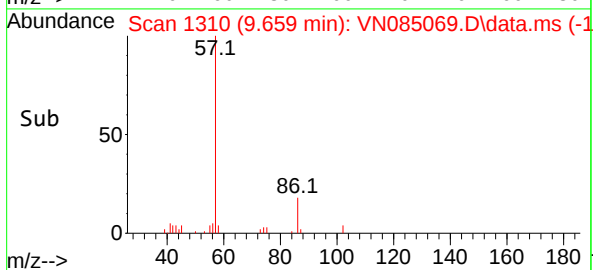
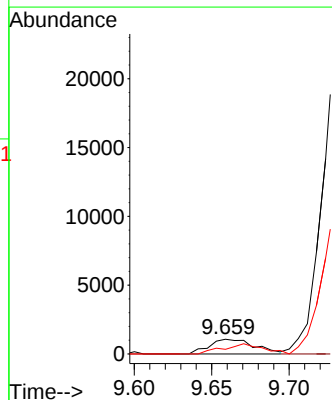
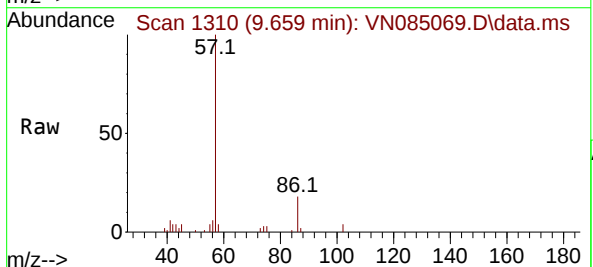
Instrument :
MSVOA_N
ClientSampleId :

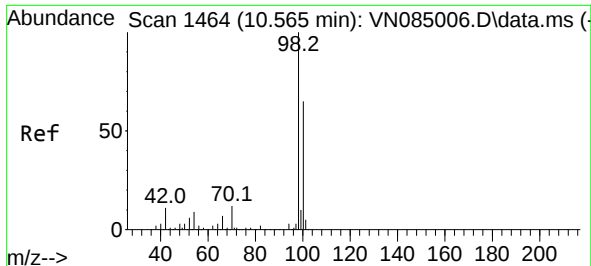
Tgt Ion: 63 Resp: 644
Ion Ratio Lower Upper
63 100
65 0.0 24.0 36.0#



#48
Methyl methacrylate
Concen: 1.147 ug/l
RT: 9.659 min Scan# 1310
Delta R.T. -0.018 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

Tgt Ion: 41 Resp: 2184
Ion Ratio Lower Upper
41 100
69 0.0 73.2 109.8#
39 60.2 46.2 69.4

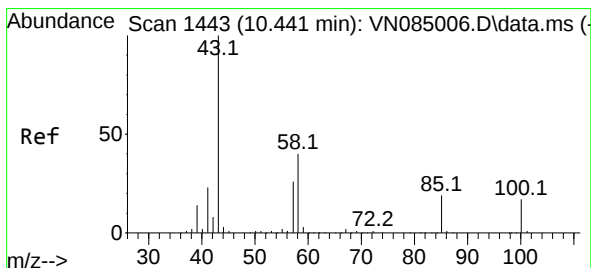
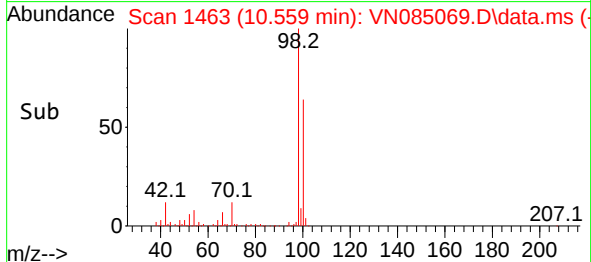
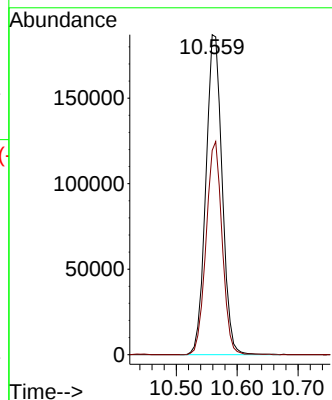
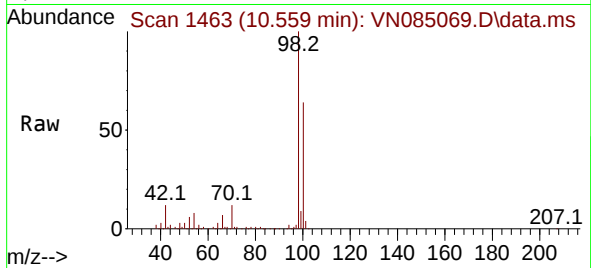




#50
Toluene-d8
Concen: 48.450 ug/l
RT: 10.559 min Scan# 1463
Delta R.T. -0.006 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

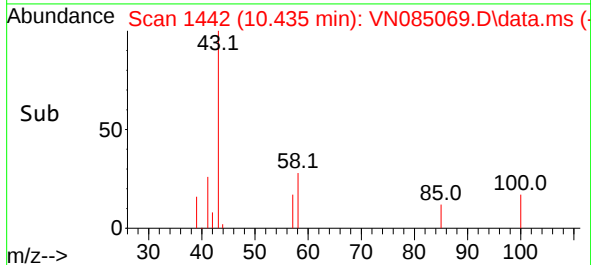
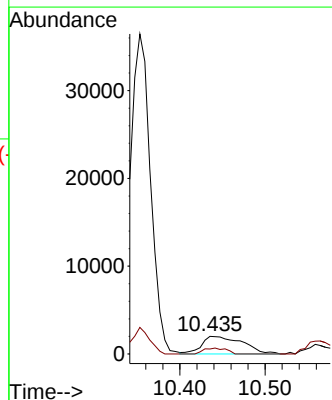
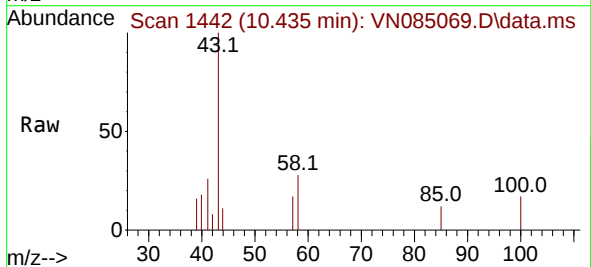
Instrument :
MSVOA_N
ClientSampleId :

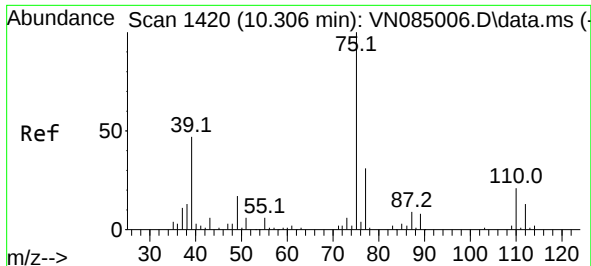
Tgt Ion: 98 Resp: 347490
Ion Ratio Lower Upper
98 100
100 65.6 52.5 78.7



#51
4-Methyl-2-Pentanone
Concen: 2.887 ug/l
RT: 10.435 min Scan# 1442
Delta R.T. -0.006 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

Tgt Ion: 43 Resp: 6749
Ion Ratio Lower Upper
43 100
58 18.4 32.1 48.1#

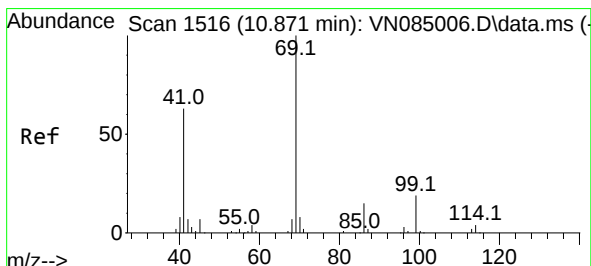
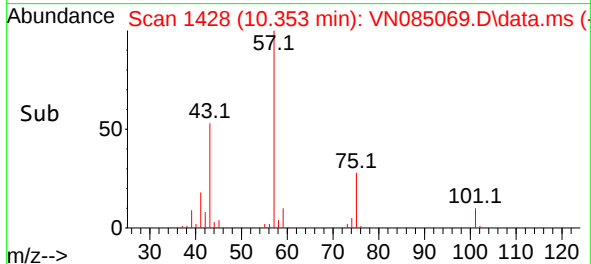
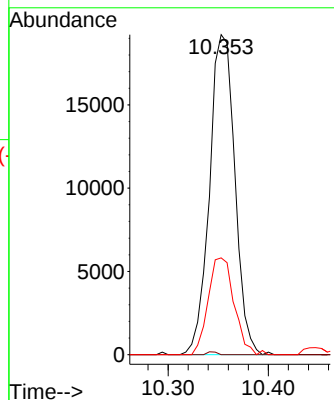
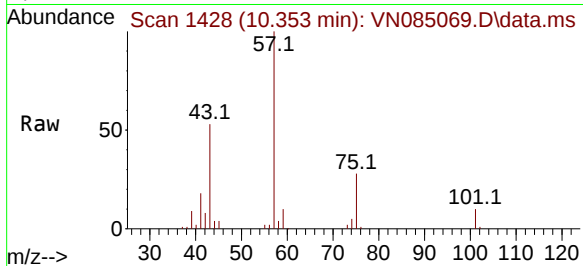




#54
cis-1,3-Dichloropropene
Concen: 10.227 ug/l
RT: 10.353 min Scan# 1428
Delta R.T. 0.047 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

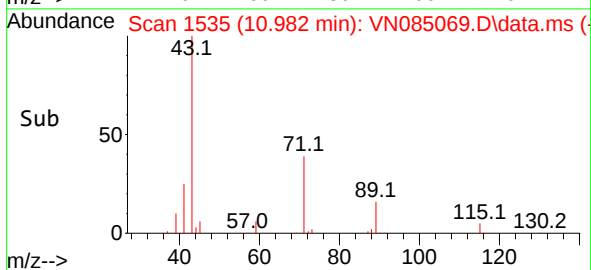
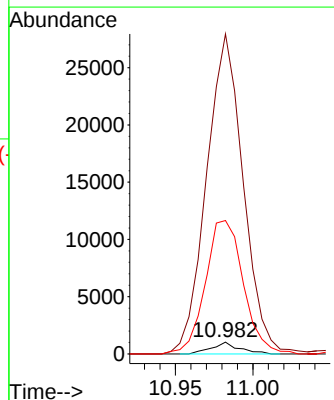
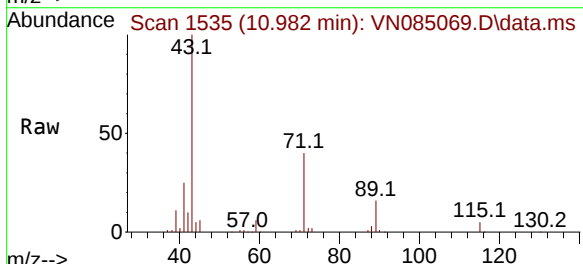
Instrument :
MSVOA_N
ClientSampleId :

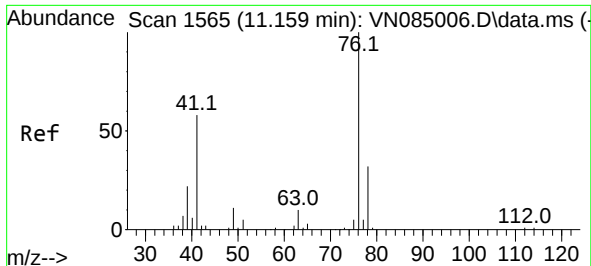
Tgt Ion: 75 Resp: 33828
Ion Ratio Lower Upper
75 100
77 0.0 25.0 37.4#
39 30.3 37.6 56.4#



#56
Ethyl methacrylate
Concen: 0.468 ug/l
RT: 10.982 min Scan# 1535
Delta R.T. 0.112 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

Tgt Ion: 69 Resp: 1292
Ion Ratio Lower Upper
69 100
41 3572.6 50.0 75.0#
39 1538.8 27.0 40.6#





#57

1,3-Dichloropropane

Concen: 1.036 ug/l

RT: 11.200 min Scan# 11

Delta R.T. 0.041 min

Lab File: VN085069.D

Acq: 02 Dec 2024 14:54

Instrument :

MSVOA_N

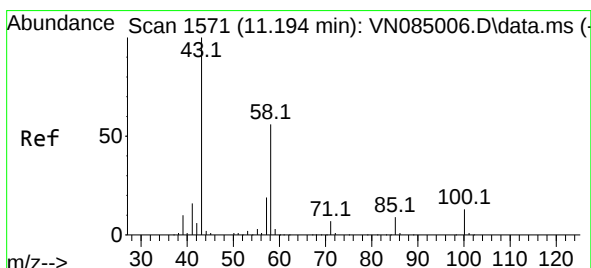
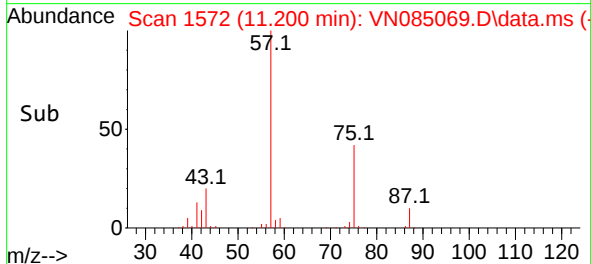
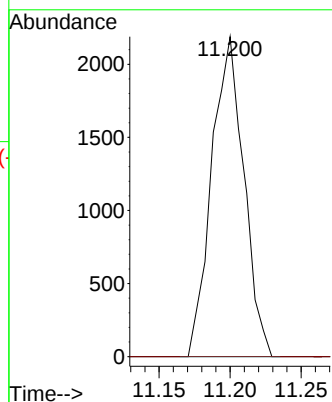
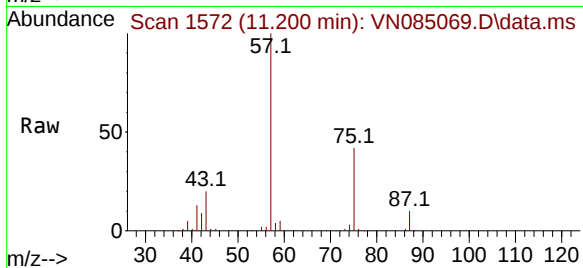
ClientSampleId :

Tgt Ion: 76 Resp: 3448

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#



#59

2-Hexanone

Concen: 46.583 ug/l

RT: 11.165 min Scan# 1566

Delta R.T. -0.030 min

Lab File: VN085069.D

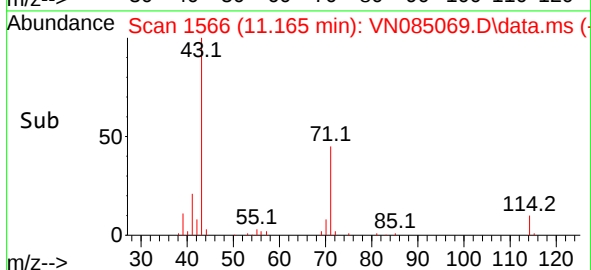
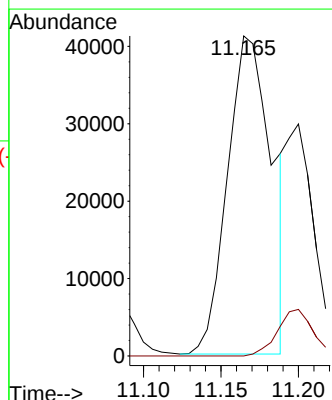
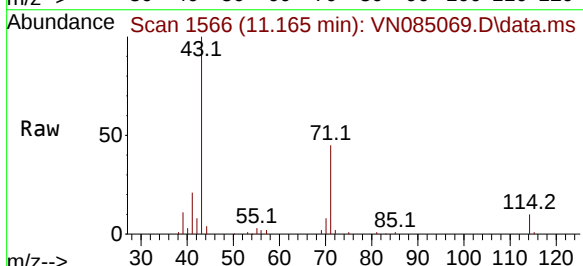
Acq: 02 Dec 2024 14:54

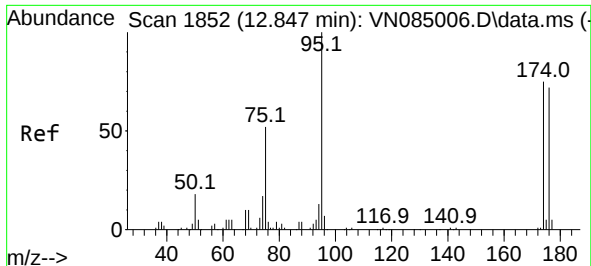
Tgt Ion: 43 Resp: 81457

Ion Ratio Lower Upper

43 100

58 0.0 28.3 85.0#

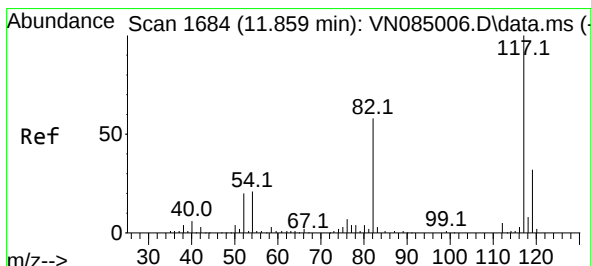
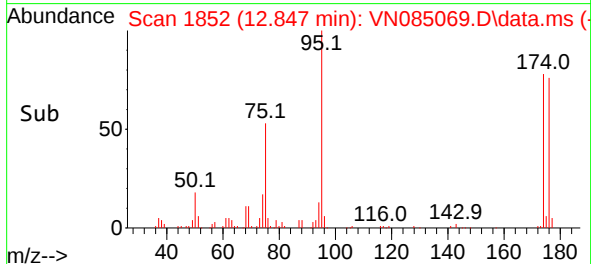
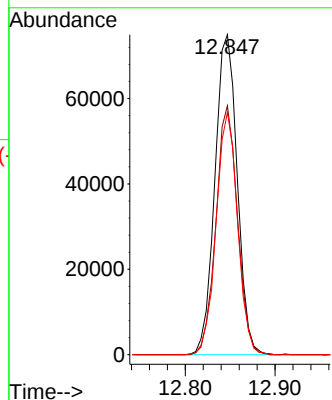
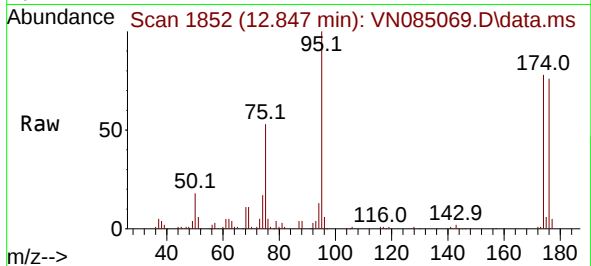




#62
4-Bromofluorobenzene
Concen: 48.238 ug/l
RT: 12.847 min Scan# 11
Delta R.T. -0.000 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

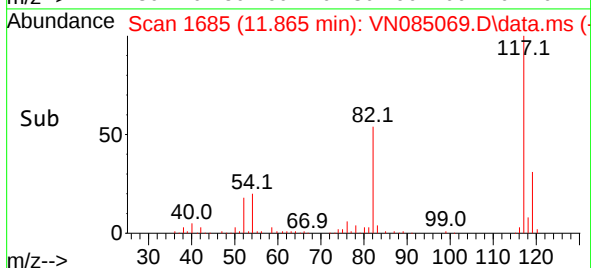
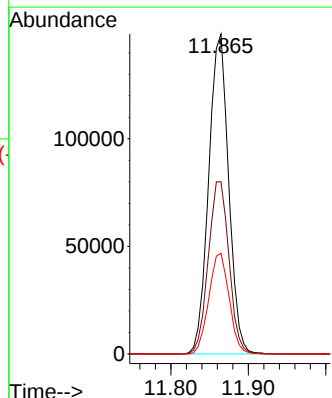
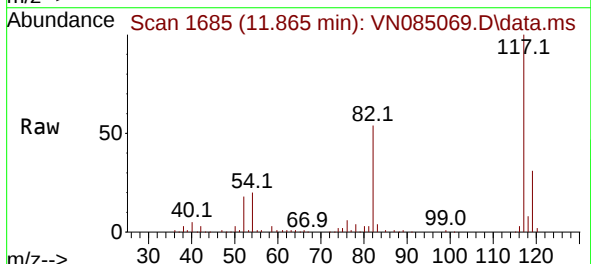
Instrument :
MSVOA_N
ClientSampleId :

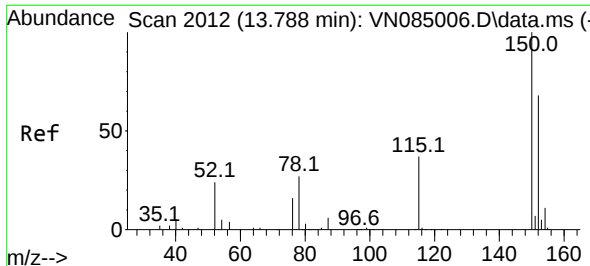
Tgt Ion: 95 Resp: 129381
Ion Ratio Lower Upper
95 100
174 75.2 0.0 146.6
176 72.5 0.0 141.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. 0.006 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

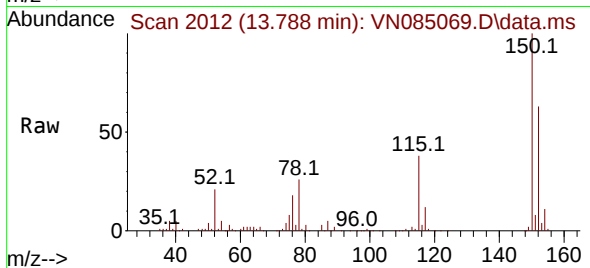
Tgt Ion: 117 Resp: 265960
Ion Ratio Lower Upper
117 100
82 53.8 46.0 69.0
119 31.5 25.6 38.4



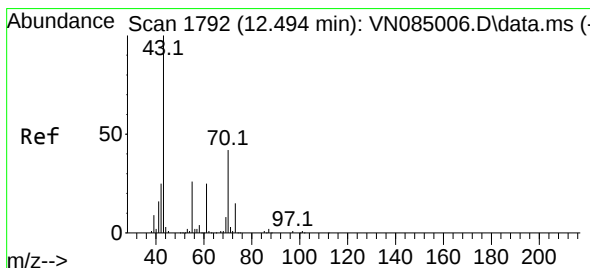
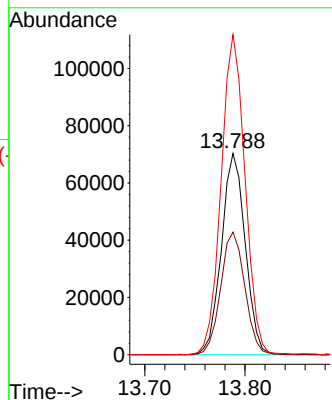
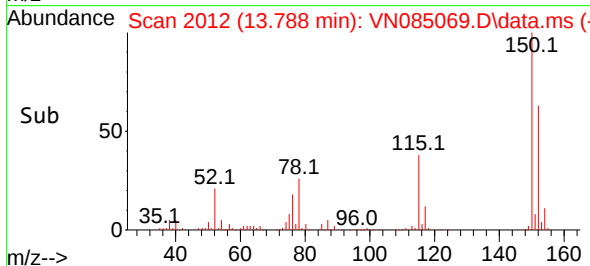


#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 13.788 min Scan# 2012
 Delta R.T. -0.000 min
 Lab File: VN085069.D
 Acq: 02 Dec 2024 14:54

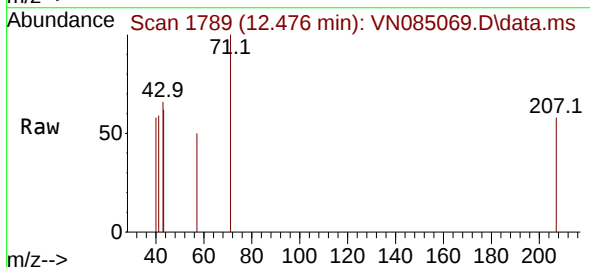
Instrument :
 MSVOA_N
 ClientSampleId :



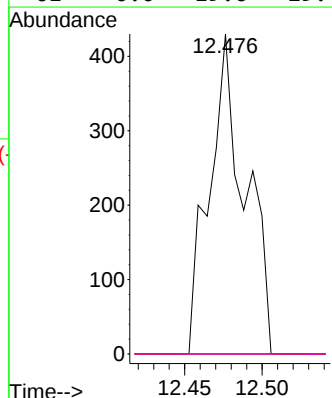
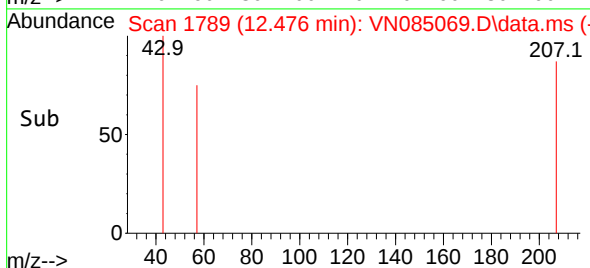
Tgt Ion:152 Resp: 115792
 Ion Ratio Lower Upper
 152 100
 115 61.9 31.7 95.1
 150 159.7 0.0 351.4

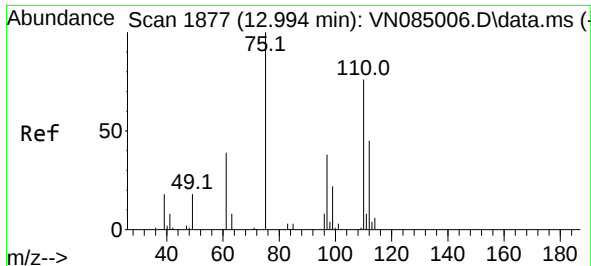


#74
 N-ethyl acetate
 Concen: 0.205 ug/l
 RT: 12.476 min Scan# 1789
 Delta R.T. -0.018 min
 Lab File: VN085069.D
 Acq: 02 Dec 2024 14:54



Tgt Ion: 43 Resp: 691
 Ion Ratio Lower Upper
 43 100
 70 0.0 34.6 51.8#
 55 0.0 20.5 30.7#
 61 0.0 19.6 29.4#

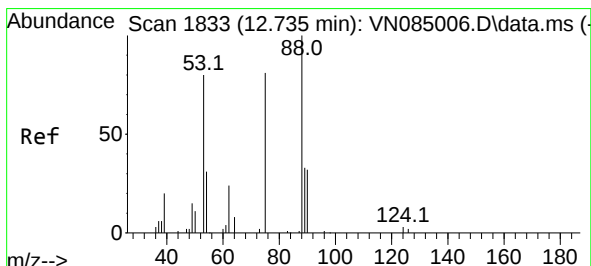
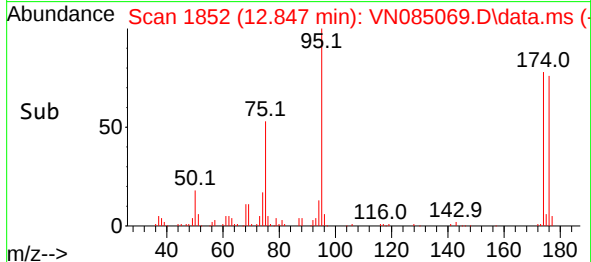
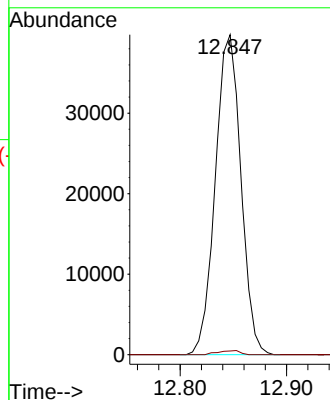
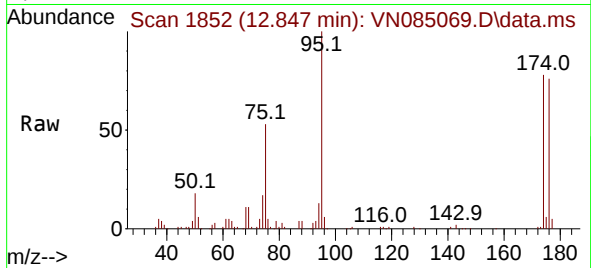




#76
1,2,3-Trichloropropane
Concen: 31.426 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.147 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

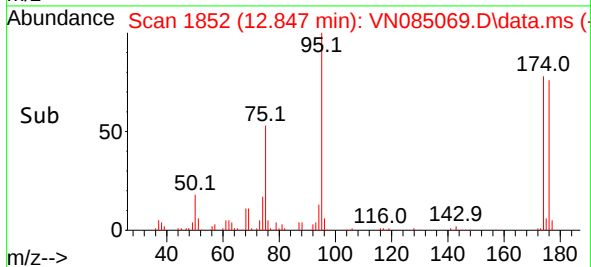
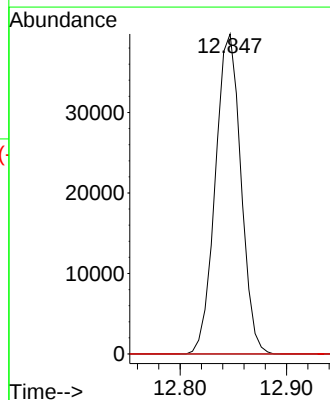
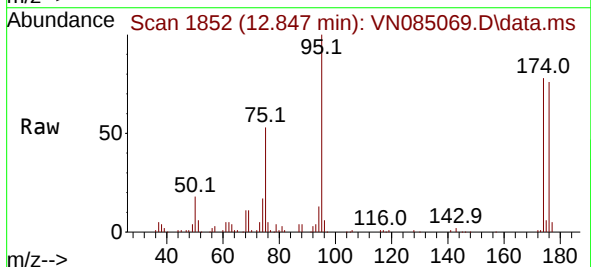
Instrument :
MSVOA_N
ClientSampleId :

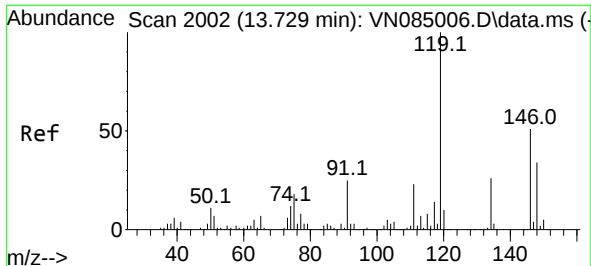
Tgt Ion: 75 Resp: 66189
Ion Ratio Lower Upper
75 100
77 1.1 109.1 327.4#



#81
trans-1,4-Dichloro-2-butene
Concen: 69.376 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

Tgt Ion: 75 Resp: 66189
Ion Ratio Lower Upper
75 100
53 0.0 78.2 117.4#
89 0.0 37.9 56.9#





#87

1,3-Dichlorobenzene

Concen: 0.255 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.006 min

Lab File: VN085069.D

Acq: 02 Dec 2024 14:54

Instrument :

MSVOA_N

ClientSampleId :

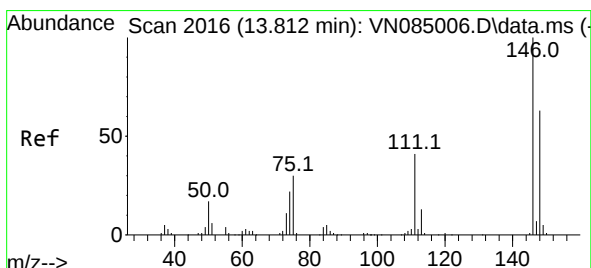
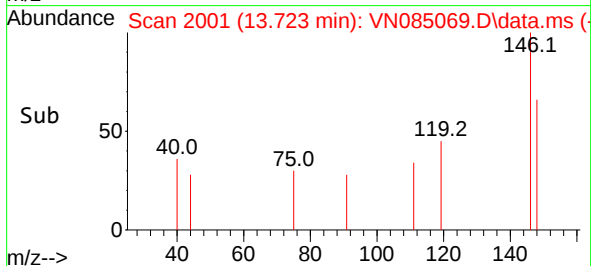
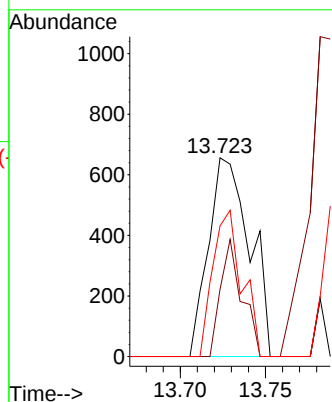
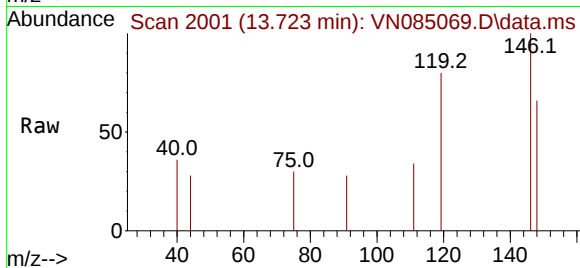
Tgt Ion:146 Resp: 1104

Ion Ratio Lower Upper

146 100

111 30.8 21.6 65.0

148 51.8 32.2 96.6



#88

1,4-Dichlorobenzene

Concen: 0.250 ug/l

RT: 13.723 min Scan# 2001

Delta R.T. -0.088 min

Lab File: VN085069.D

Acq: 02 Dec 2024 14:54

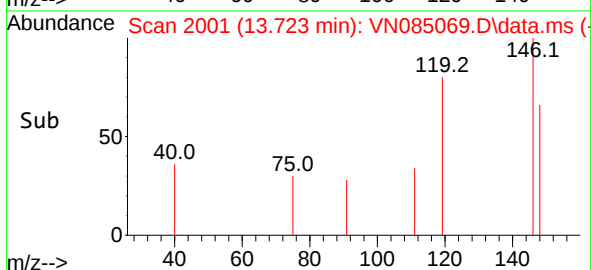
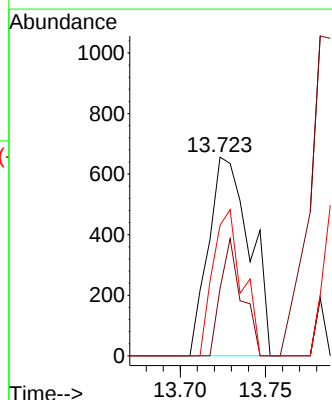
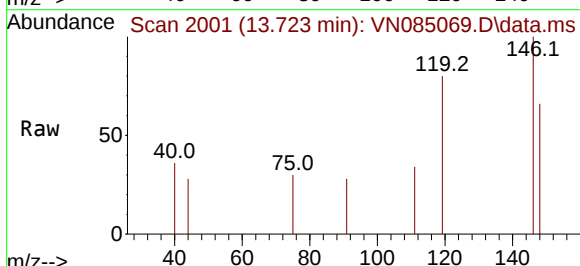
Tgt Ion:146 Resp: 1104

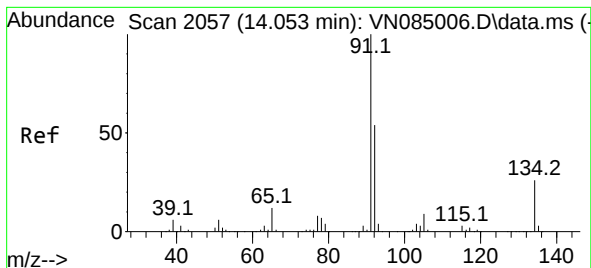
Ion Ratio Lower Upper

146 100

111 30.8 20.9 62.8

148 51.8 31.3 93.9





#89

n-Butylbenzene

Concen: 0.205 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085069.D

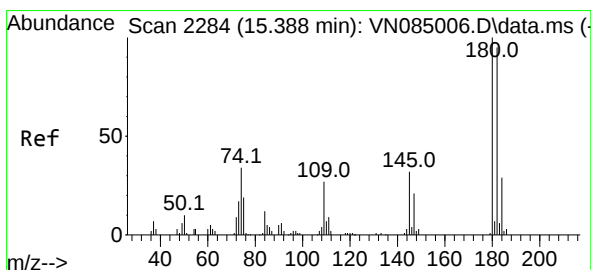
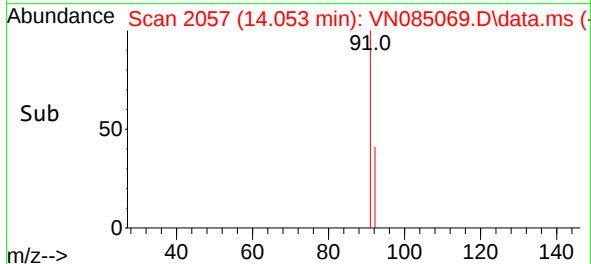
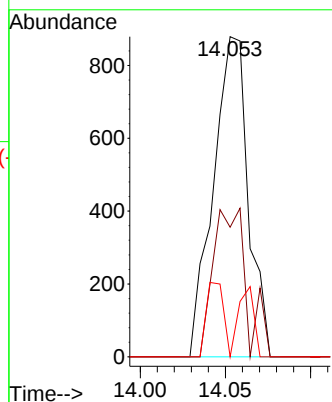
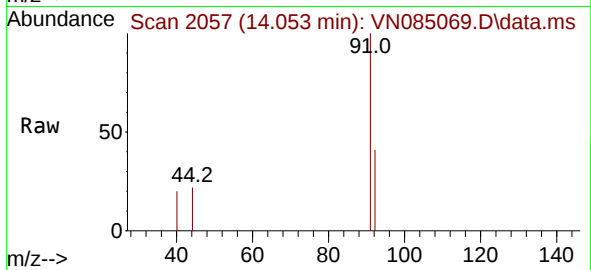
Acq: 02 Dec 2024 14:54

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	91	Resp:	1256
Ion	Ratio	Lower	Upper
91	100		
92	43.7	26.8	80.3
134	9.7	12.8	38.4



#93

1,2,4-Trichlorobenzene

Concen: 0.421 ug/l

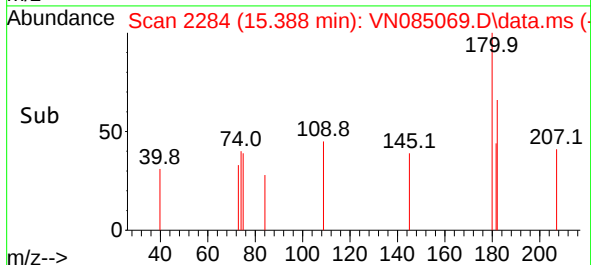
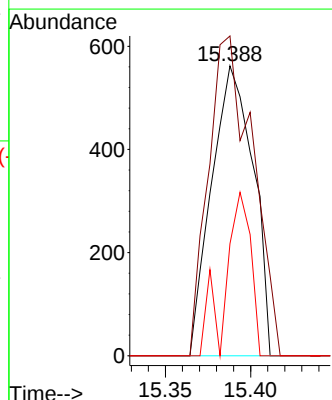
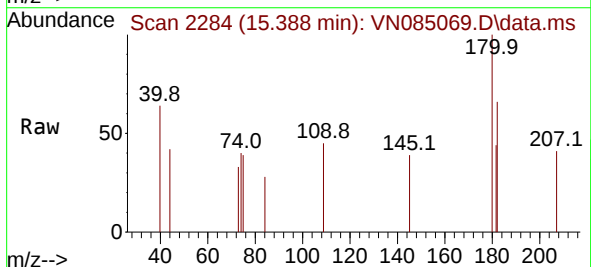
RT: 15.388 min Scan# 2284

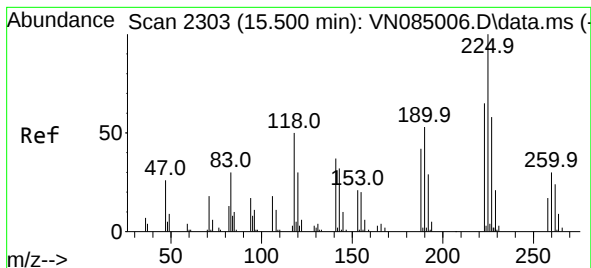
Delta R.T. -0.000 min

Lab File: VN085069.D

Acq: 02 Dec 2024 14:54

Tgt Ion:	180	Resp:	951
Ion	Ratio	Lower	Upper
180	100		
182	117.7	46.9	140.8
145	34.7	16.3	48.8





#94

Hexachlorobutadiene

Concen: 0.230 ug/l

RT: 15.500 min Scan# 2303

Delta R.T. -0.000 min

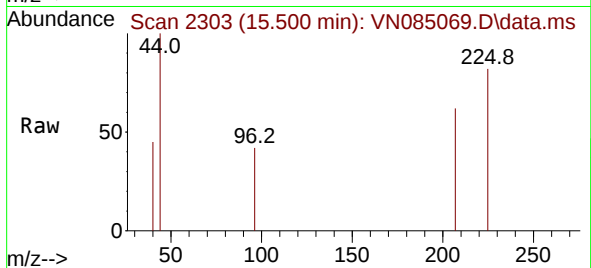
Lab File: VN085069.D

Acq: 02 Dec 2024 14:54

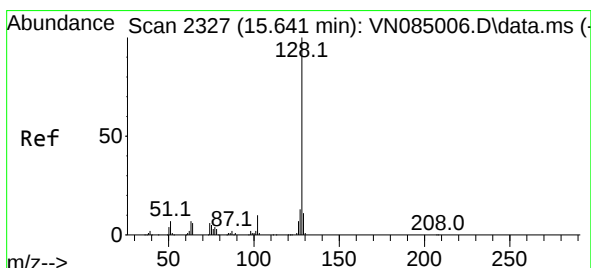
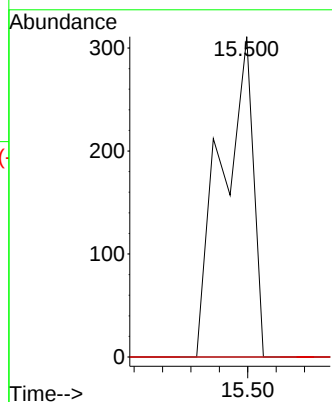
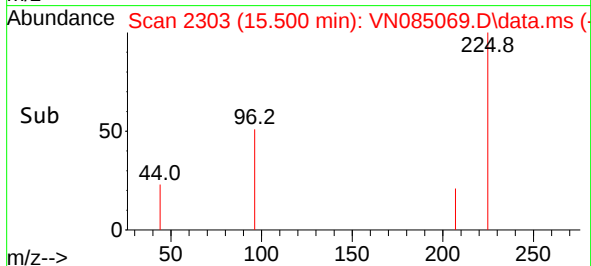
Instrument :

MSVOA_N

ClientSampleId :



Tgt Ion:	225	Resp:	240
Ion	Ratio	Lower	Upper
225	100		
223	0.0	30.9	92.8#
227	0.0	31.5	94.5#



#95

Naphthalene

Concen: 0.402 ug/l

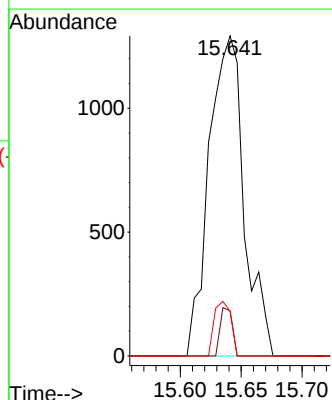
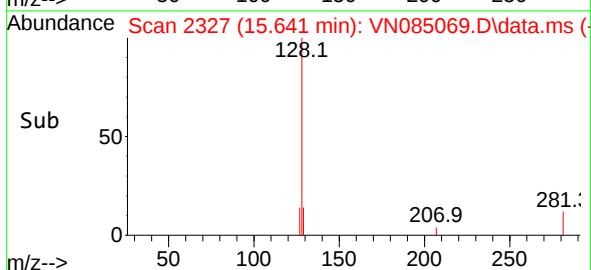
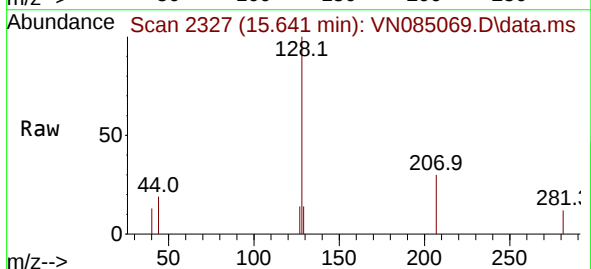
RT: 15.641 min Scan# 2327

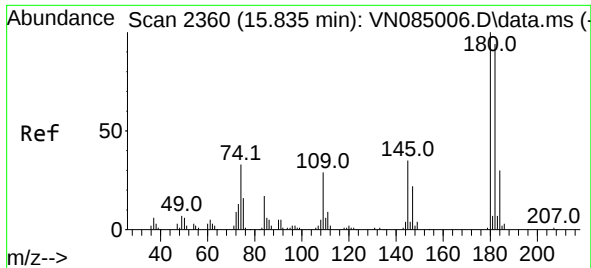
Delta R.T. -0.000 min

Lab File: VN085069.D

Acq: 02 Dec 2024 14:54

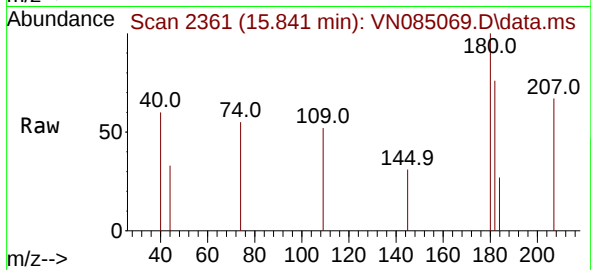
Tgt Ion:	128	Resp:	2584
Ion	Ratio	Lower	Upper
128	100		
127	5.1	10.6	16.0#
129	8.1	8.6	12.8#





#96
1,2,3-Trichlorobenzene
Concen: 0.566 ug/l
RT: 15.841 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085069.D
Acq: 02 Dec 2024 14:54

Instrument :
MSVOA_N
ClientSampleId :



Tgt Ion:180 Resp: 1219
Ion Ratio Lower Upper
180 100
182 92.8 46.4 139.2
145 15.5 17.3 52.0#

