

Data Path : Z:\voasrv\HPCHEM1\MSVOA_N\Data\VN013025\
 Data File : VN085588.D
 Acq On : 30 Jan 2025 18:42
 Operator : JC\MD
 Sample : Q1219-01 20X
 Misc : 1.06g/10mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :

Quant Time: Jan 31 02:40:03 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jan 15 02:16:08 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	8.224	168	166098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	9.100	114	315088	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.865	117	289019	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.788	152	136254	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.576	65	152751	56.972	ug/l	0.00
Spiked Amount 50.000	Range 74 - 125		Recovery = 113.940%			
35) Dibromofluoromethane	8.165	113	112211	51.333	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery = 102.660%			
50) Toluene-d8	10.565	98	386982	49.827	ug/l	0.00
Spiked Amount 50.000	Range 86 - 113		Recovery = 99.660%			
62) 4-Bromofluorobenzene	12.847	95	142848	53.768	ug/l	0.00
Spiked Amount 50.000	Range 77 - 121		Recovery = 107.540%			
Target Compounds						Qvalue
3) Chloromethane	2.359	50	584	0.240	ug/l #	41
5) Bromomethane	2.959	94	611	0.413	ug/l #	69
11) Tert butyl alcohol	5.524	59	67	0.218	ug/l #	71
16) Acetone	4.430	43	391	0.451	ug/l #	45
31) Cyclohexane	8.218	56	5050	1.484	ug/l #	6
36) 1,1-Dichloropropene	8.224	75	15380	5.013	ug/l #	51
38) Carbon Tetrachloride	8.218	117	18699	5.324	ug/l #	18
43) Isopropyl Acetate	8.776	43	24218	4.881	ug/l #	55
52) Toluene	10.629	92	15735	2.946	ug/l	91
56) Ethyl methacrylate	10.882	69	59	1.947	ug/l #	1
59) 2-Hexanone	11.188	43	574	0.283	ug/l #	26
67) Ethyl Benzene	11.959	91	5308	0.515	ug/l	90
68) m/p-Xylenes	12.065	106	7585	1.990	ug/l	95
69) o-Xylene	12.394	106	4039	1.109	ug/l	90
74) N-amyl acetate	12.476	43	1165	0.282	ug/l #	82
76) 1,2,3-Trichloropropane	12.847	75	77158	27.861	ug/l #	1
78) n-propylbenzene	13.035	91	7507	0.690	ug/l	99
79) 2-Chlorotoluene	13.094	91	4640	0.659	ug/l #	43
80) 1,3,5-Trimethylbenzene	13.170	105	10666	1.404	ug/l	87
81) trans-1,4-Dichloro-2-b...	12.847	75	77158	75.380	ug/l #	3
83) tert-Butylbenzene	13.664	119	2401	0.376	ug/l	93
84) 1,2,4-Trimethylbenzene	13.482	105	43307	5.720	ug/l	98
85) sec-Butylbenzene	13.617	105	2511	0.284	ug/l	93
86) p-Isopropyltoluene	13.729	119	1925	0.299	ug/l #	74
89) n-Butylbenzene	14.053	91	4199	0.662	ug/l #	80
90) Hexachloroethane	14.335	117	2281	1.355	ug/l #	16
93) 1,2,4-Trichlorobenzene	15.394	180	652	0.318	ug/l #	43
94) Hexachlorobutadiene	15.494	225	224	0.206	ug/l	68
95) Naphthalene	15.641	128	22938	3.747	ug/l #	96
96) 1,2,3-Trichlorobenzene	15.852	180	518	0.250	ug/l #	81

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

MSVOA N

ClientSantitas

Chronic pain

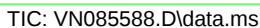
Quant Time: Jan 31 02:40:03 2025

Quant Method : Z:\voasrv\HPCHEM1\MSVOA_N\methods\82N011425W.M

Quant Title : SW846 8260

QLast Update : Wed Jan 15 02:16:08 2025

Response via : Initial Calibration

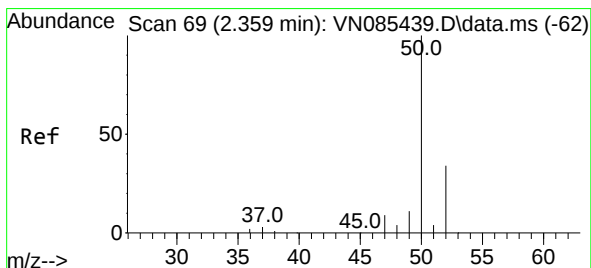
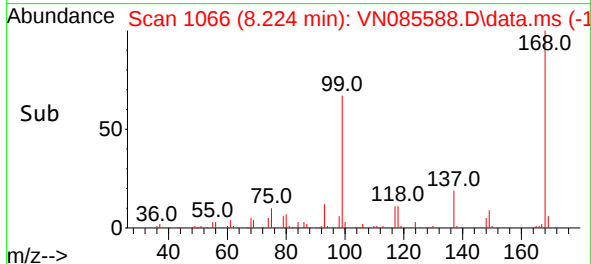
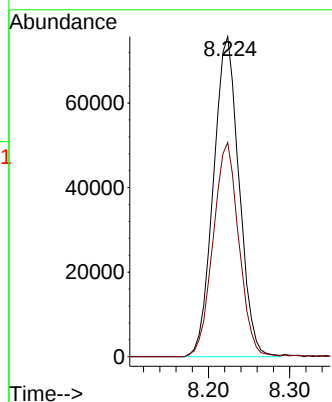
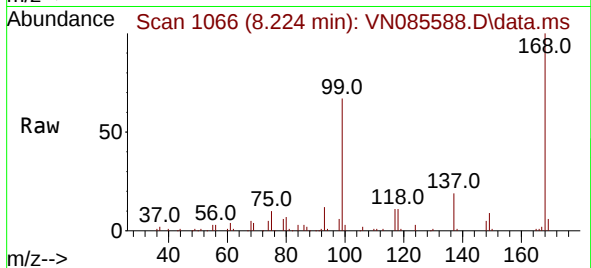




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 8.224 min Scan# 10
Delta R.T. 0.006 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

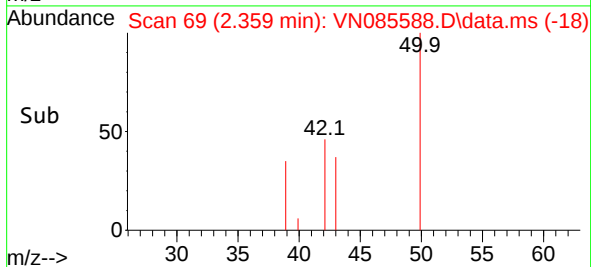
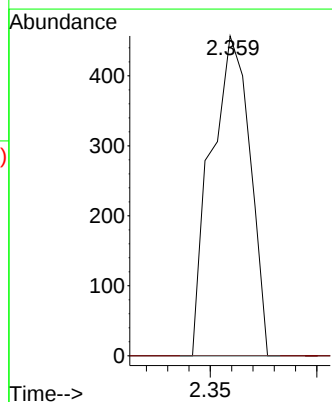
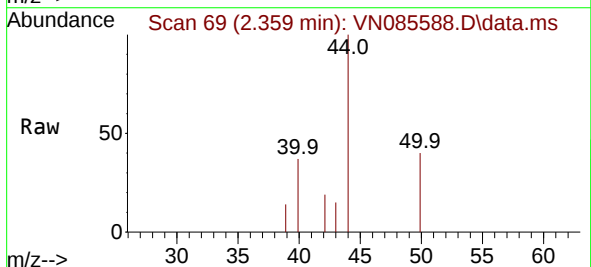
Instrument :
MSVOA_N
ClientSampleId :

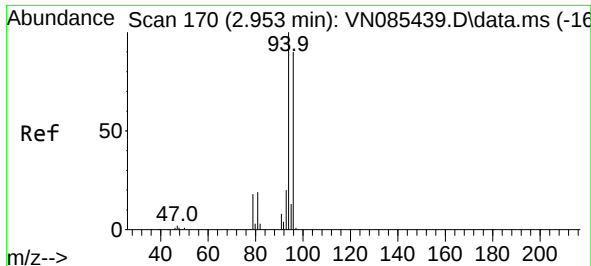
Tgt Ion:168 Resp: 166098
Ion Ratio Lower Upper
168 100
99 66.9 53.6 80.4



#3
Chloromethane
Concen: 0.240 ug/l
RT: 2.359 min Scan# 69
Delta R.T. -0.000 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

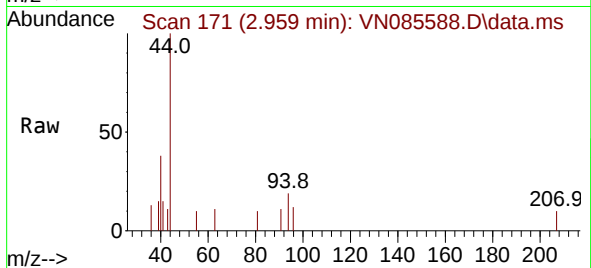
Tgt Ion: 50 Resp: 584
Ion Ratio Lower Upper
50 100
52 0.0 27.0 40.6#



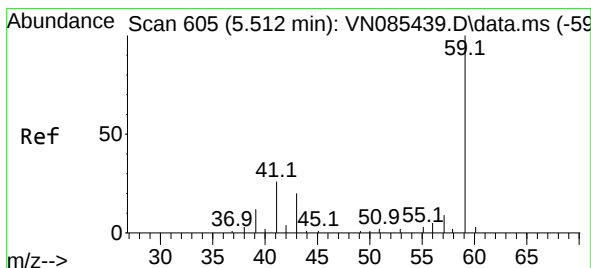
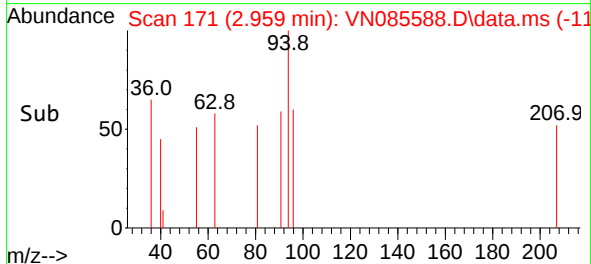
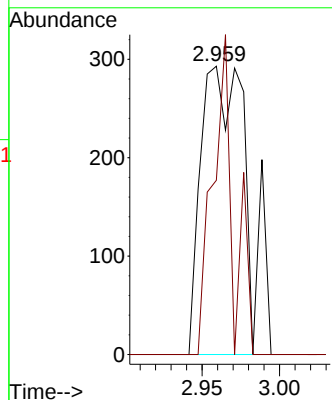


#5
Bromomethane
Concen: 0.413 ug/l
RT: 2.959 min Scan# 11
Delta R.T. 0.006 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Instrument :
MSVOA_N
ClientSampleId :

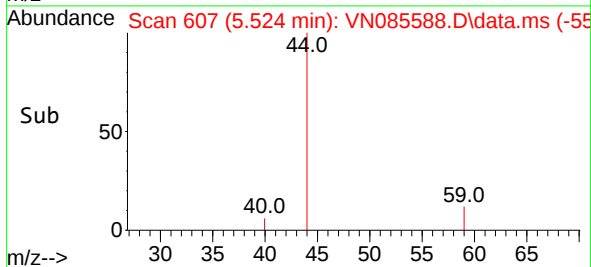
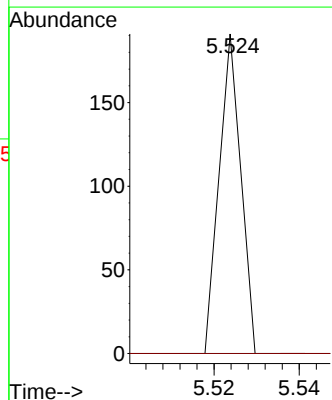
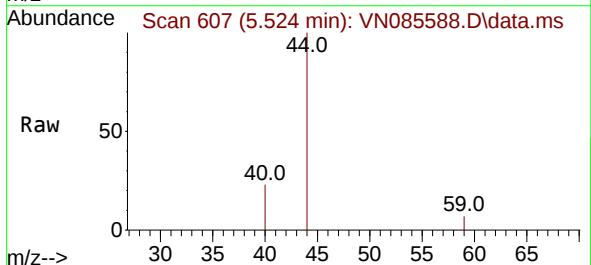


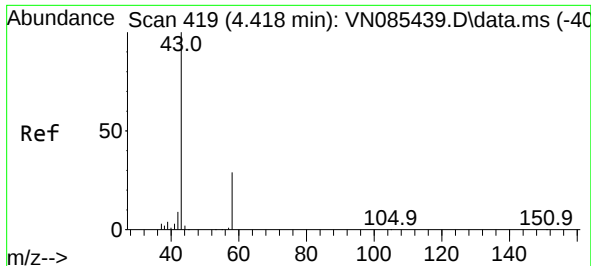
Tgt Ion: 94 Resp: 611
Ion Ratio Lower Upper
94 100
96 60.4 71.8 107.6#



#11
Tert butyl alcohol
Concen: 0.218 ug/l
RT: 5.524 min Scan# 607
Delta R.T. 0.012 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Tgt Ion: 59 Resp: 67
Ion Ratio Lower Upper
59 100
57 0.0 8.6 13.0#

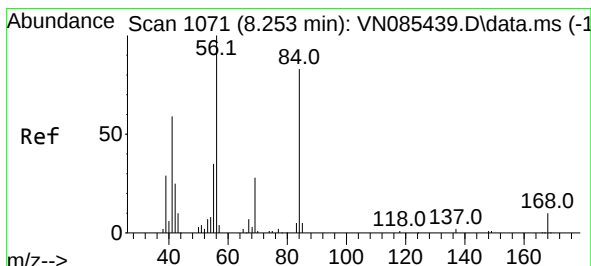
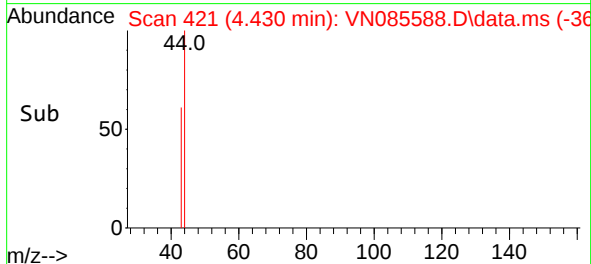
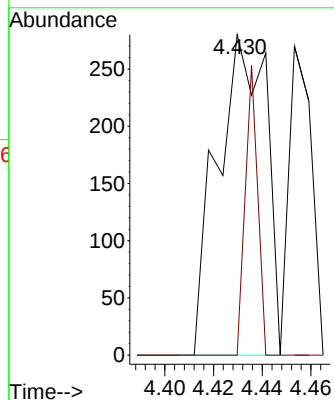
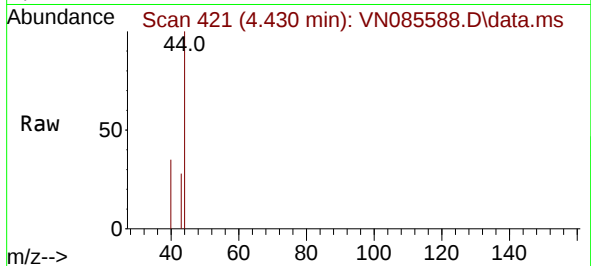




#16
Acetone
Concen: 0.451 ug/l
RT: 4.430 min Scan# 41
Delta R.T. 0.012 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

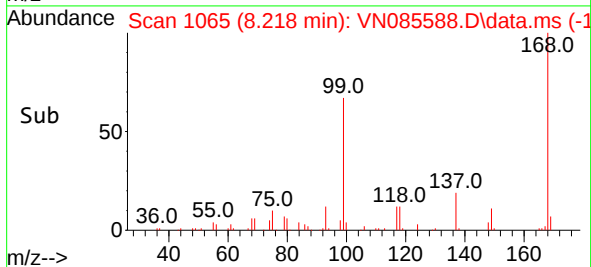
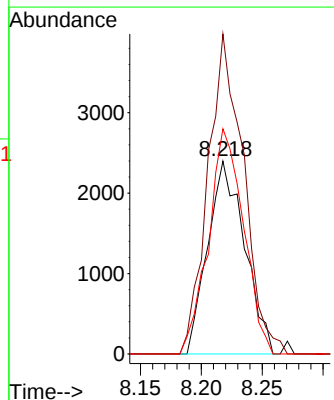
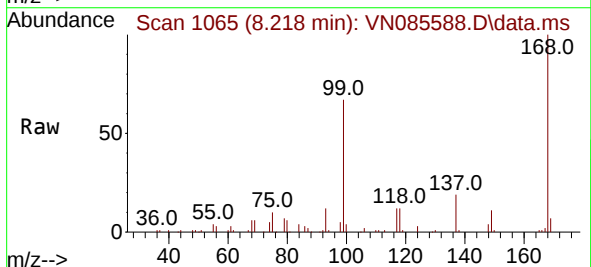
Instrument :
MSVOA_N
ClientSampleId :

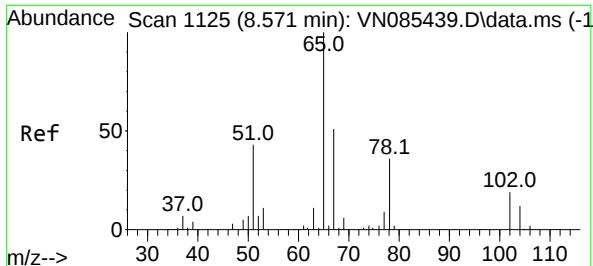
Tgt Ion: 43 Resp: 391
Ion Ratio Lower Upper
43 100
58 0.0 23.8 35.6#



#31
Cyclohexane
Concen: 1.484 ug/l
RT: 8.218 min Scan# 1065
Delta R.T. -0.035 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Tgt Ion: 56 Resp: 5050
Ion Ratio Lower Upper
56 100
69 165.9 22.2 33.4#
84 116.7 66.4 99.6#





#33

1,2-Dichloroethane-d4

Concen: 56.972 ug/l

RT: 8.576 min Scan# 1125

Delta R.T. 0.006 min

Lab File: VN085588.D

Acq: 30 Jan 2025 18:42

Instrument :

MSVOA_N

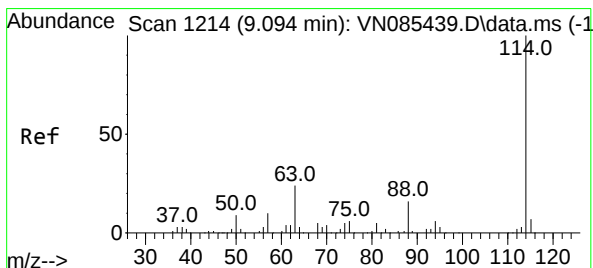
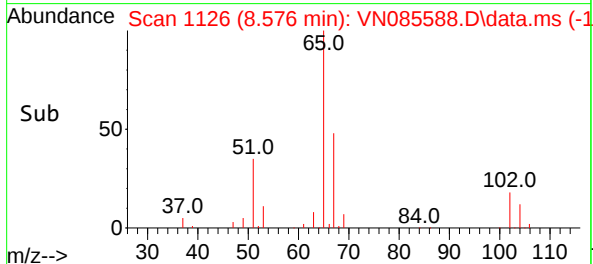
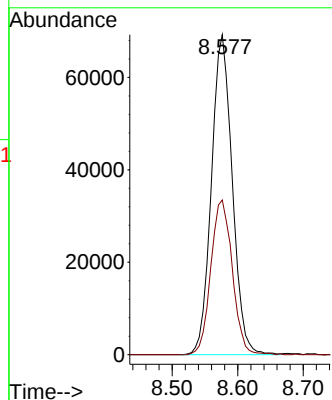
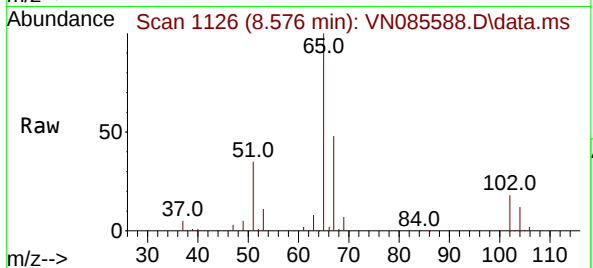
ClientSampleId :

Tgt Ion: 65 Resp: 152751

Ion Ratio Lower Upper

65 100

67 49.8 0.0 101.6



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 9.100 min Scan# 1215

Delta R.T. 0.006 min

Lab File: VN085588.D

Acq: 30 Jan 2025 18:42

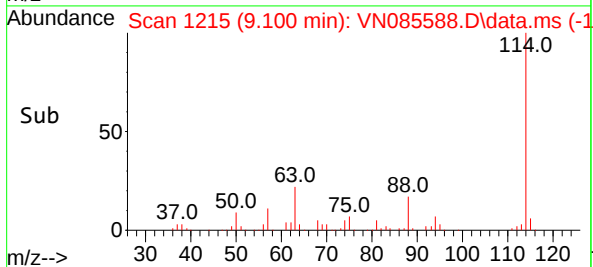
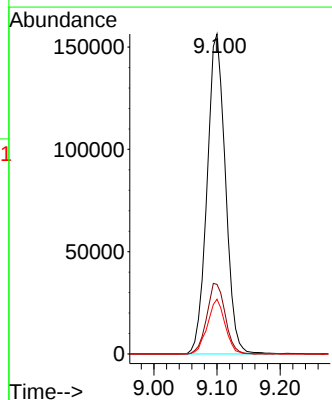
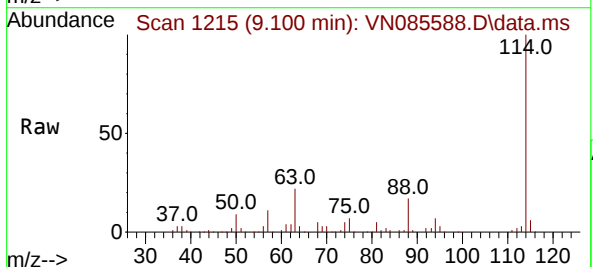
Tgt Ion: 114 Resp: 315088

Ion Ratio Lower Upper

114 100

63 21.7 0.0 47.6

88 17.1 0.0 32.6





#35

Dibromofluoromethane

Concen: 51.333 ug/l

RT: 8.165 min Scan# 1056

Delta R.T. 0.006 min

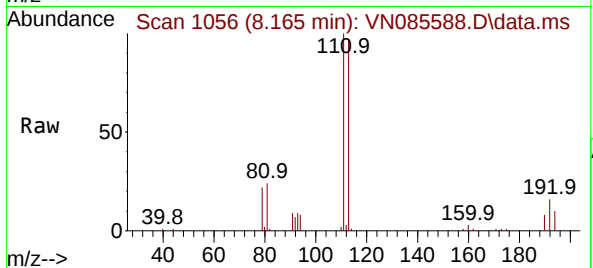
Lab File: VN085588.D

Acq: 30 Jan 2025 18:42

Instrument :

MSVOA_N

ClientSampleId :



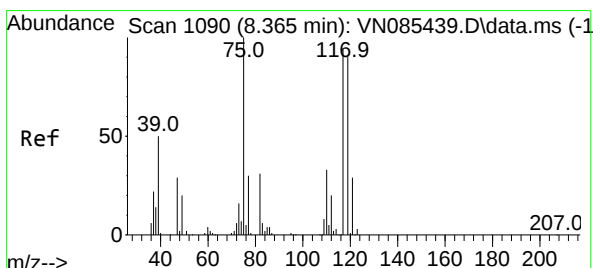
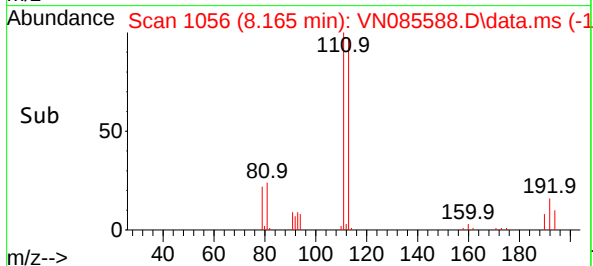
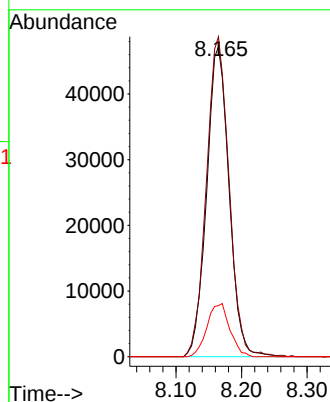
Tgt Ion:113 Resp: 112211

Ion Ratio Lower Upper

113 100

111 104.3 82.7 124.1

192 17.4 14.3 21.5



#36

1,1-Dichloropropene

Concen: 5.013 ug/l

RT: 8.224 min Scan# 1066

Delta R.T. -0.141 min

Lab File: VN085588.D

Acq: 30 Jan 2025 18:42

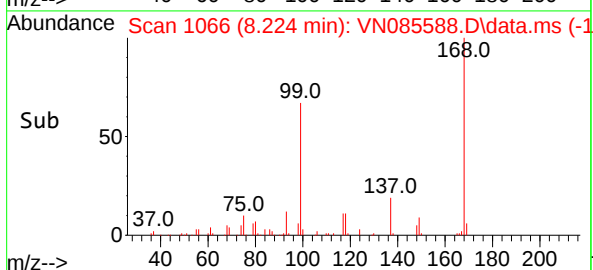
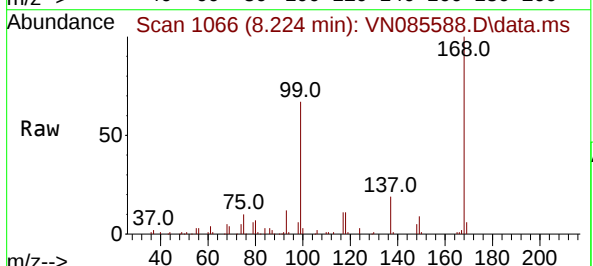
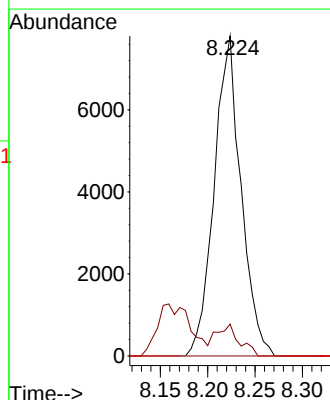
Tgt Ion: 75 Resp: 15380

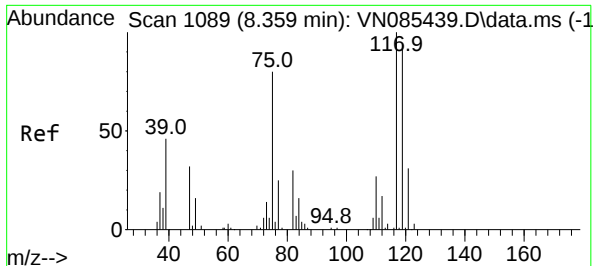
Ion Ratio Lower Upper

75 100

110 8.5 16.5 49.5#

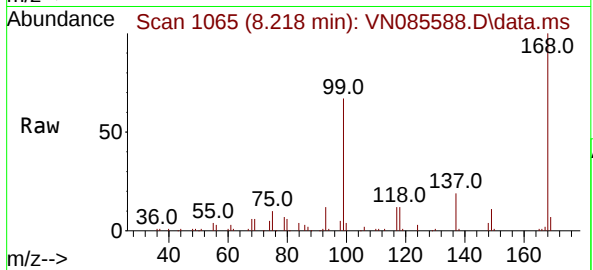
77 0.0 24.4 36.6#



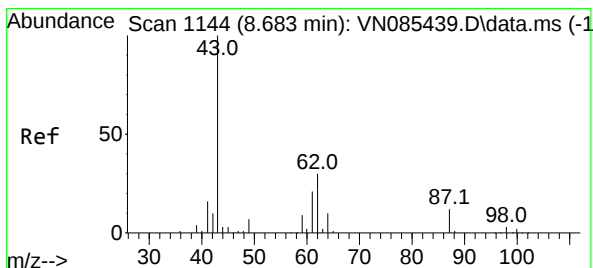
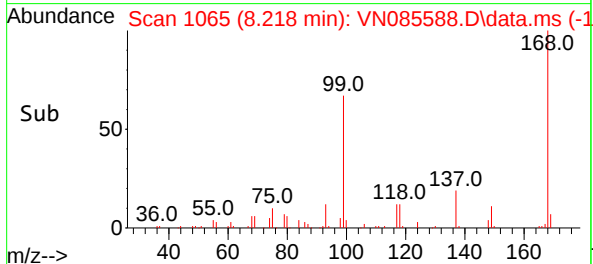
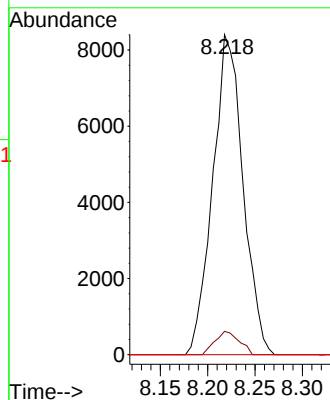


#38
Carbon Tetrachloride
Concen: 5.324 ug/l
RT: 8.218 min Scan# 1160
Delta R.T. -0.141 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Instrument :
MSVOA_N
ClientSampleId :

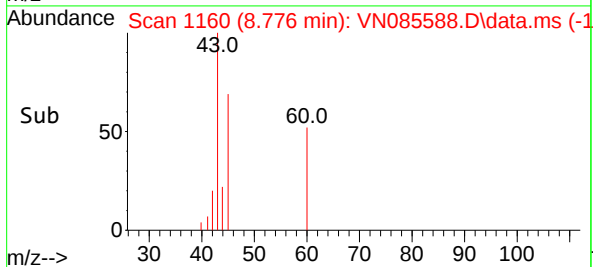
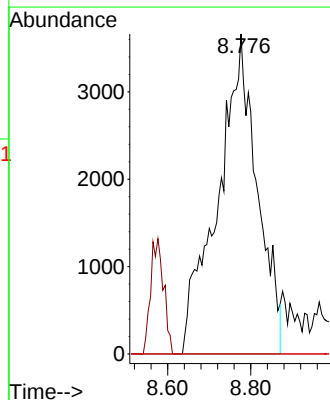
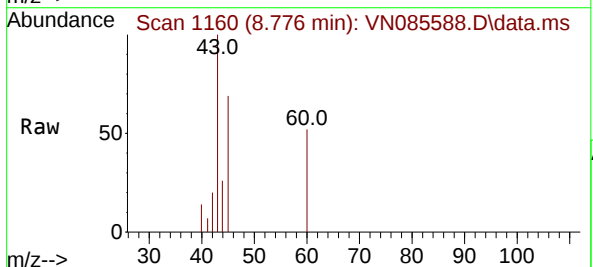


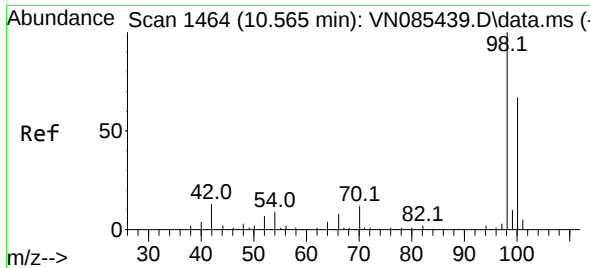
Tgt Ion:117 Resp: 18699
Ion Ratio Lower Upper
117 100
119 7.3 75.4 113.2#
121 0.0 24.6 37.0#



#43
Isopropyl Acetate
Concen: 4.881 ug/l
RT: 8.776 min Scan# 1160
Delta R.T. 0.094 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Tgt Ion: 43 Resp: 24218
Ion Ratio Lower Upper
43 100
61 0.0 20.7 31.1#
87 0.0 9.8 14.8#

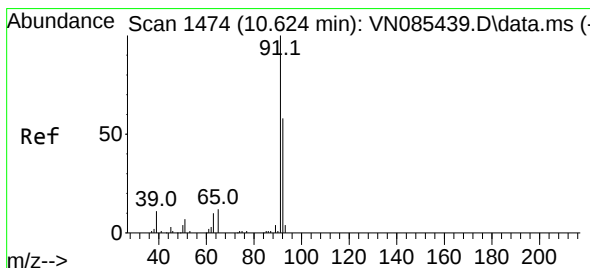
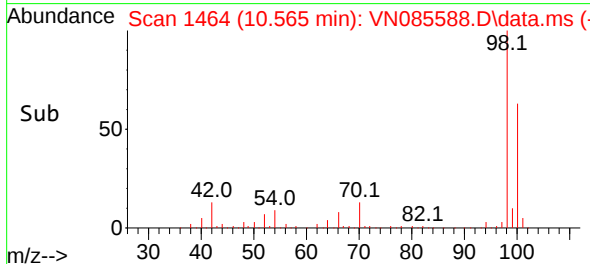
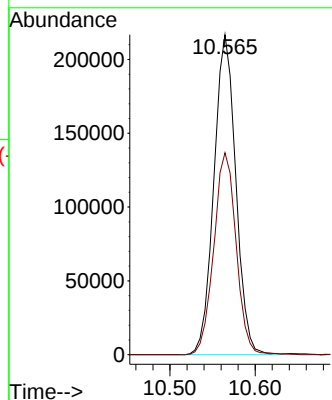
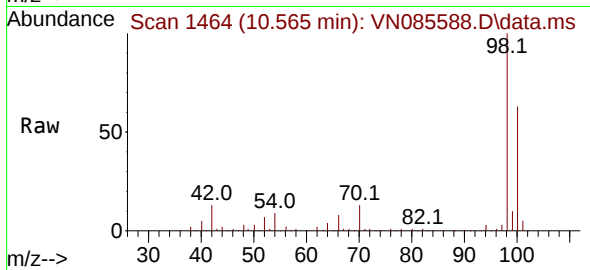




#50
Toluene-d8
Concen: 49.827 ug/l
RT: 10.565 min Scan# 1464
Delta R.T. -0.000 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

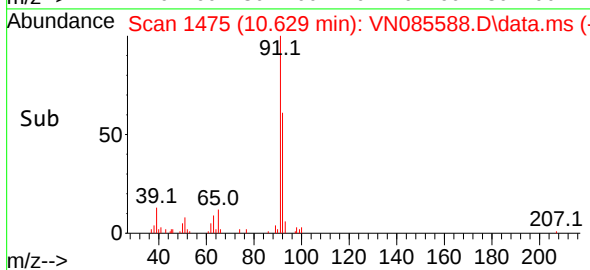
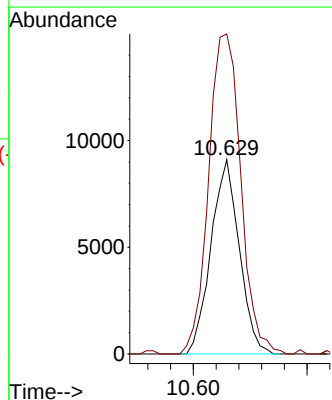
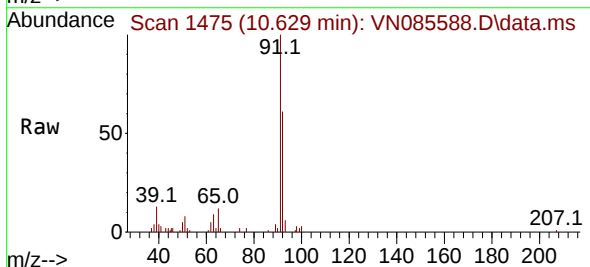
Instrument :
MSVOA_N
ClientSampleId :

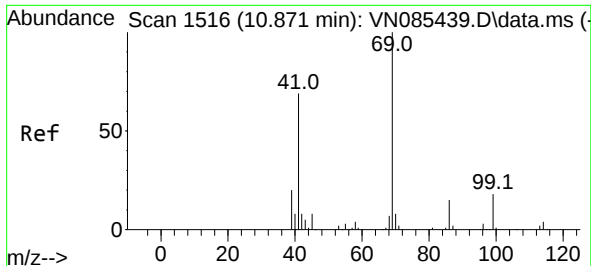
Tgt Ion: 98 Resp: 386982
Ion Ratio Lower Upper
98 100
100 64.3 52.2 78.4



#52
Toluene
Concen: 2.946 ug/l
RT: 10.629 min Scan# 1475
Delta R.T. 0.005 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

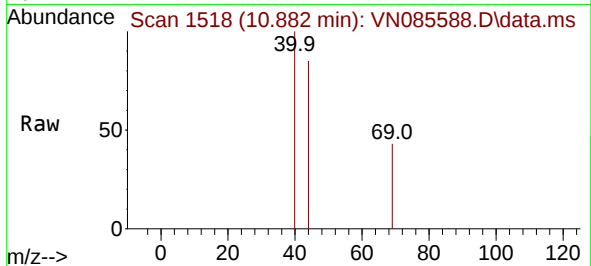
Tgt Ion: 92 Resp: 15735
Ion Ratio Lower Upper
92 100
91 187.2 139.2 208.8



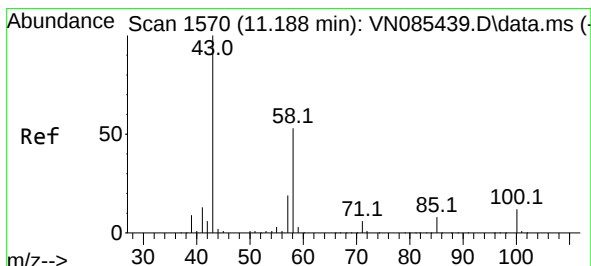
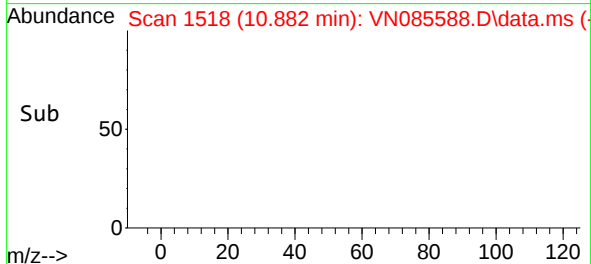
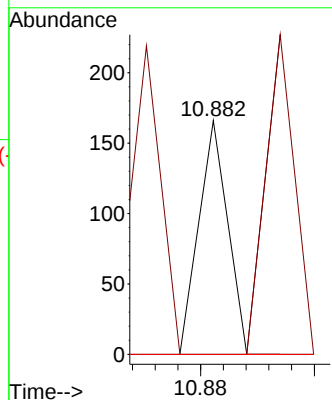


#56
Ethyl methacrylate
Concen: 1.947 ug/l
RT: 10.882 min Scan# 1518
Delta R.T. 0.011 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Instrument :
MSVOA_N
ClientSampleId :

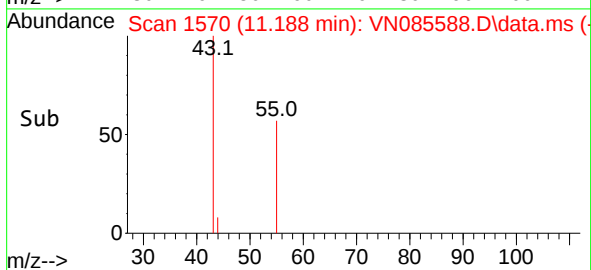
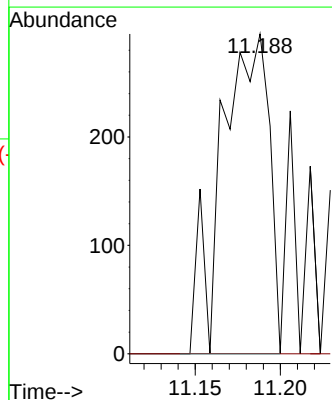
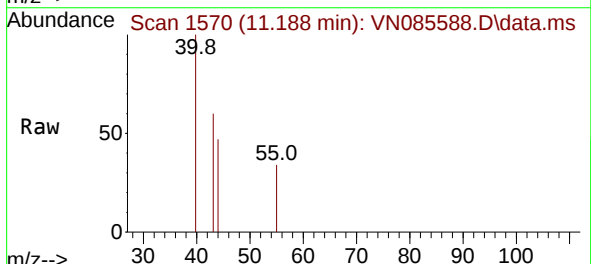


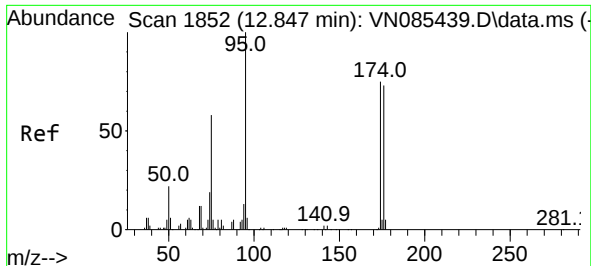
Tgt Ion: 69 Resp: 59
Ion Ratio Lower Upper
69 100
41 257.6 54.6 82.0#
39 0.0 32.4 48.6#



#59
2-Hexanone
Concen: 0.283 ug/l
RT: 11.188 min Scan# 1570
Delta R.T. -0.000 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Tgt Ion: 43 Resp: 574
Ion Ratio Lower Upper
43 100
58 0.0 26.2 78.6#

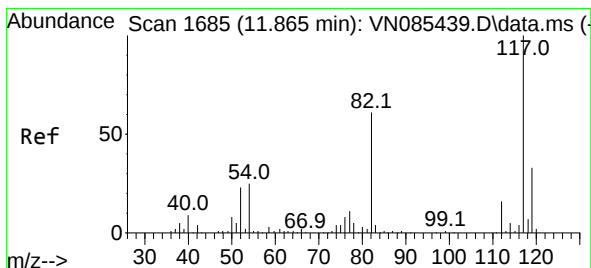
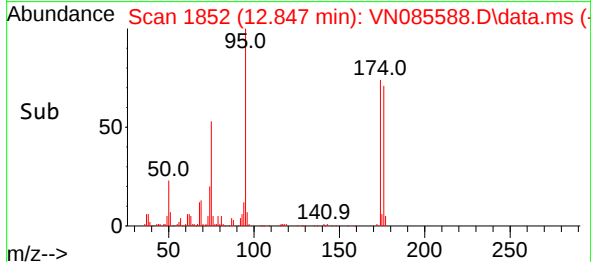
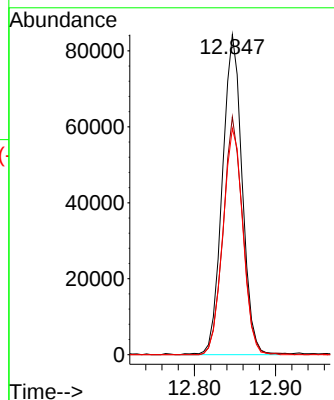
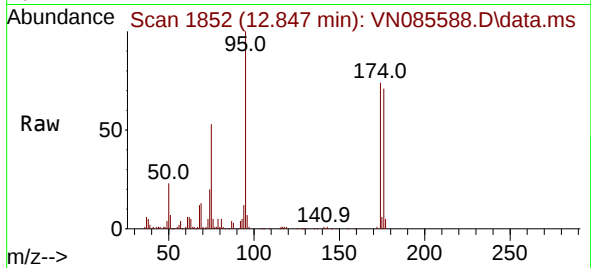




#62
4-Bromofluorobenzene
Concen: 53.768 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

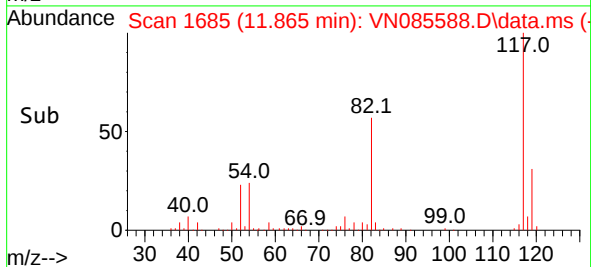
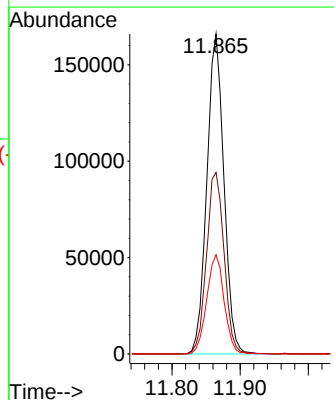
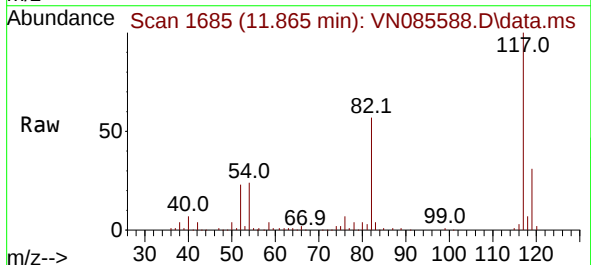
Instrument :
MSVOA_N
ClientSampleId :

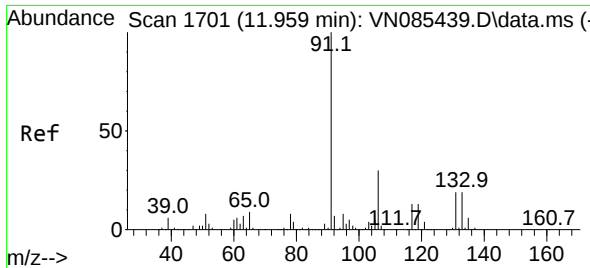
Tgt Ion: 95 Resp: 142848
Ion Ratio Lower Upper
95 100
174 73.0 0.0 145.0
176 71.4 0.0 142.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.865 min Scan# 1685
Delta R.T. -0.000 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Tgt Ion: 117 Resp: 289019
Ion Ratio Lower Upper
117 100
82 56.7 48.6 72.8
119 31.0 26.6 39.8

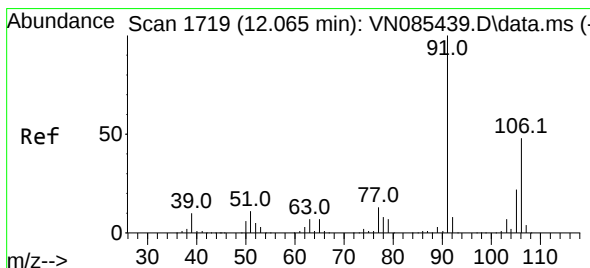
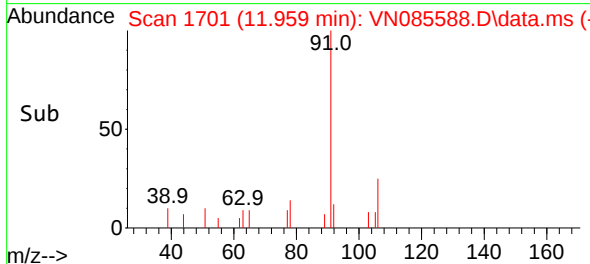
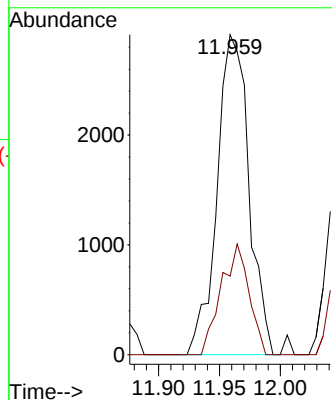
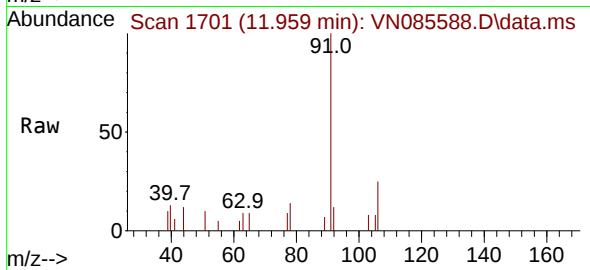




#67
Ethyl Benzene
Concen: 0.515 ug/l
RT: 11.959 min Scan# 1701
Delta R.T. -0.000 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

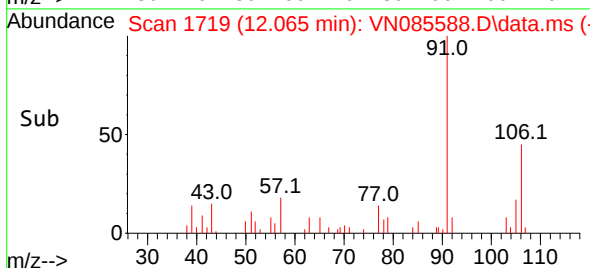
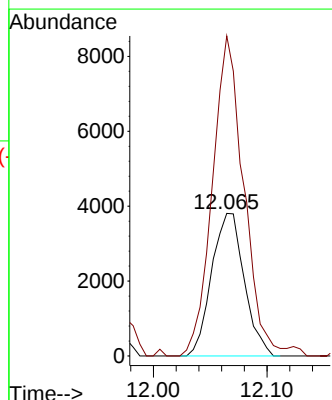
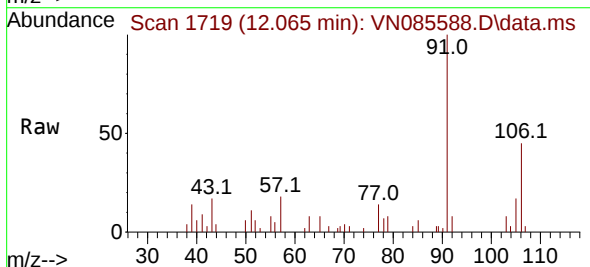
Instrument :
MSVOA_N
ClientSampleId :

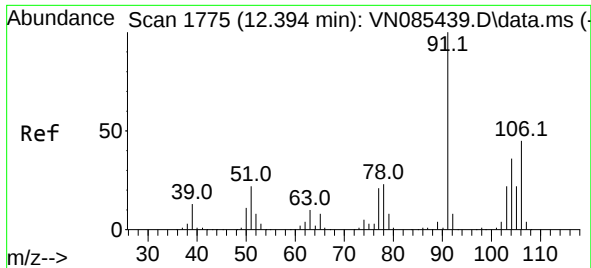
Tgt Ion: 91 Resp: 5308
Ion Ratio Lower Upper
91 100
106 24.6 23.8 35.8



#68
m/p-Xylenes
Concen: 1.990 ug/l
RT: 12.065 min Scan# 1719
Delta R.T. -0.000 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Tgt Ion:106 Resp: 7585
Ion Ratio Lower Upper
106 100
91 218.1 167.7 251.5

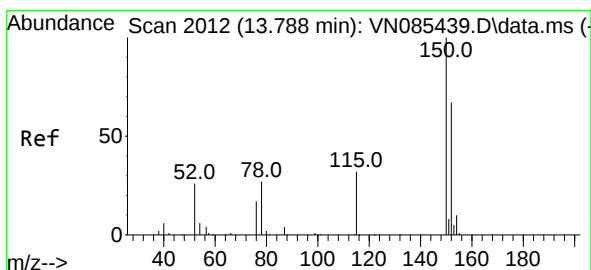
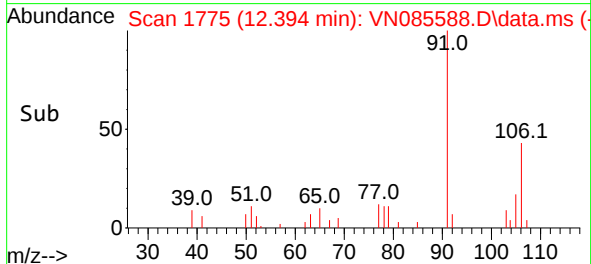
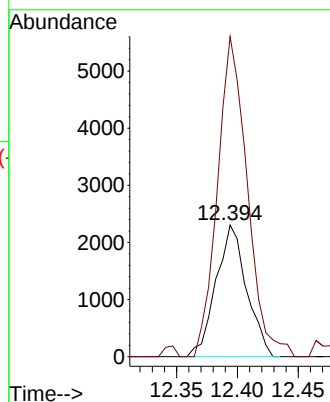
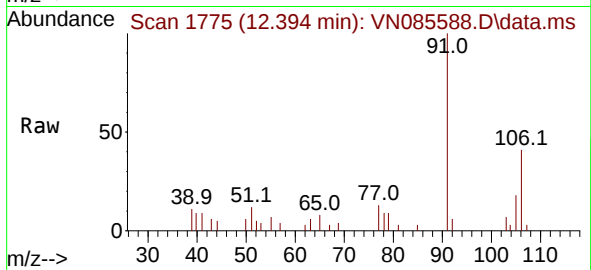




#69
o-Xylene
Concen: 1.109 ug/l
RT: 12.394 min Scan# 1775
Delta R.T. -0.000 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

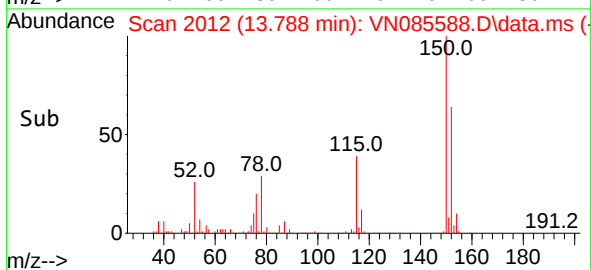
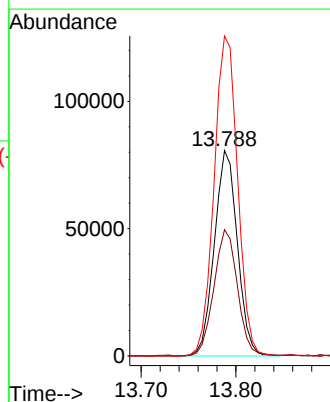
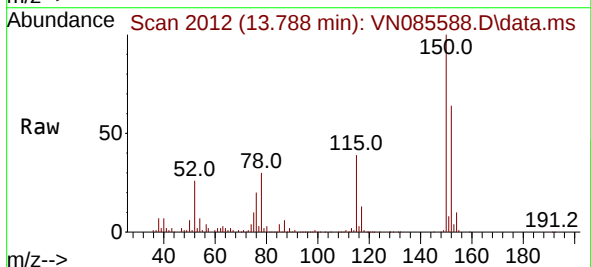
Instrument :
MSVOA_N
ClientSampleId :

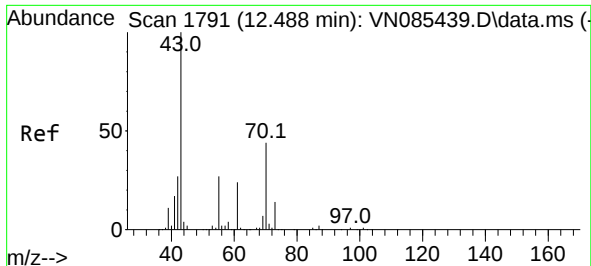
Tgt Ion:106 Resp: 4039
Ion Ratio Lower Upper
106 100
91 236.7 110.4 331.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.788 min Scan# 1212
Delta R.T. -0.000 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

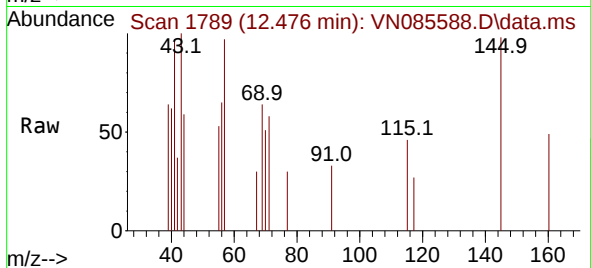
Tgt Ion:152 Resp: 136254
Ion Ratio Lower Upper
152 100
115 63.1 31.1 93.3
150 159.7 0.0 343.6



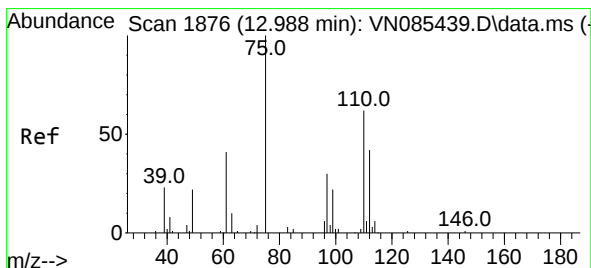
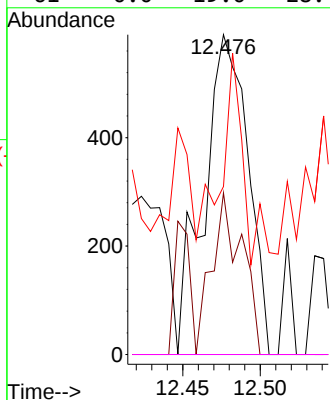
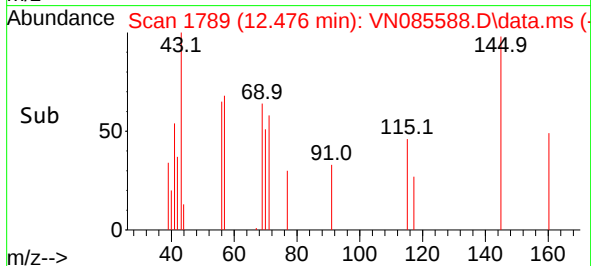


#74
N-amy1 acetate
Concen: 0.282 ug/l
RT: 12.476 min Scan# 1165
Delta R.T. -0.012 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Instrument :
MSVOA_N
ClientSampleId :

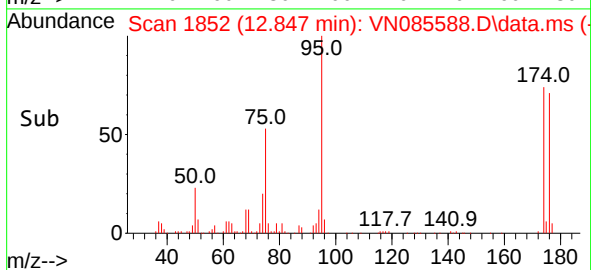
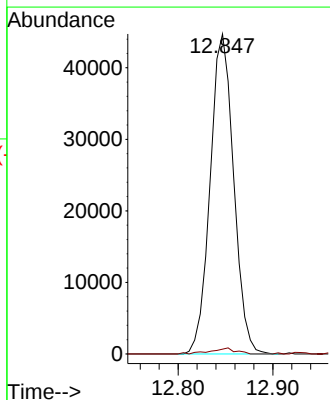
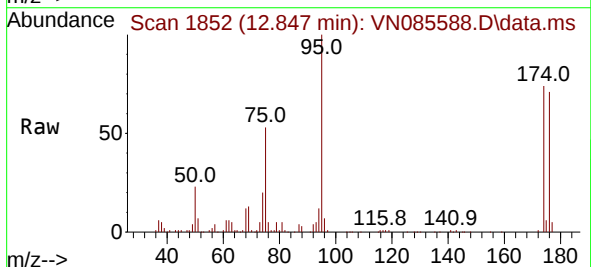


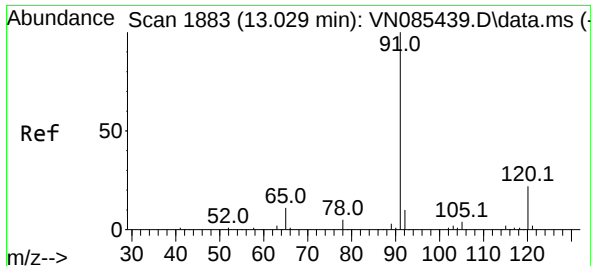
Tgt Ion: 43 Resp: 1165
Ion Ratio Lower Upper
43 100
70 34.8 34.0 51.0
55 26.4 21.4 32.2
61 0.0 19.0 28.4#



#76
1,2,3-Trichloropropane
Concen: 27.861 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. -0.141 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Tgt Ion: 75 Resp: 77158
Ion Ratio Lower Upper
75 100
77 2.0 109.7 329.2#

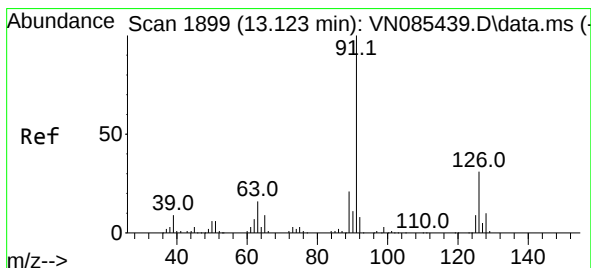
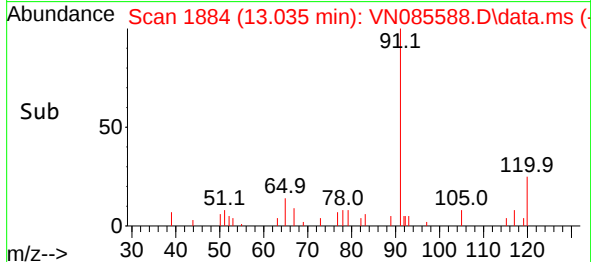
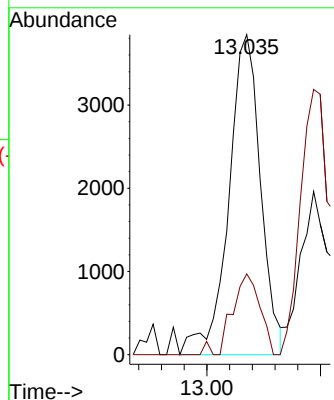
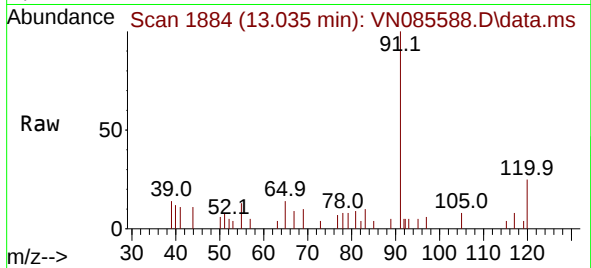




#78
n-propylbenzene
Concen: 0.690 ug/l
RT: 13.035 min Scan# 1884
Delta R.T. 0.006 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

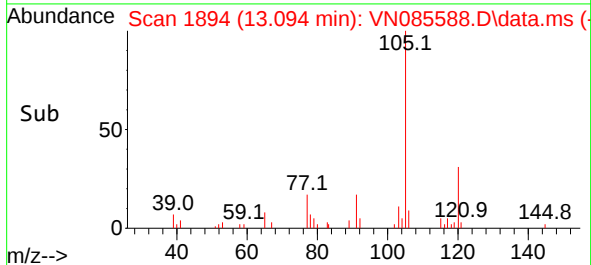
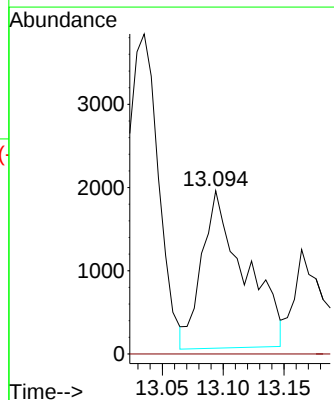
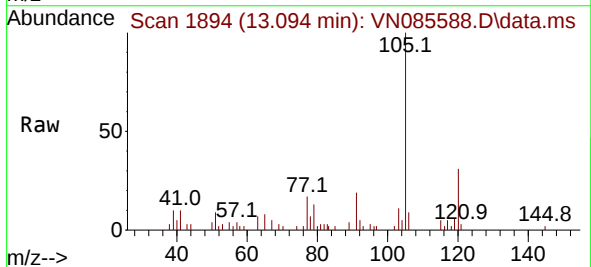
Instrument :
MSVOA_N
ClientSampleId :

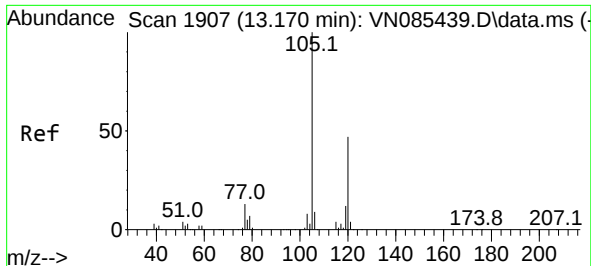
Tgt Ion: 91 Resp: 7507
Ion Ratio Lower Upper
91 100
120 21.9 10.9 32.6



#79
2-Chlorotoluene
Concen: 0.659 ug/l
RT: 13.094 min Scan# 1894
Delta R.T. -0.030 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Tgt Ion: 91 Resp: 4640
Ion Ratio Lower Upper
91 100
126 0.0 15.7 47.1#

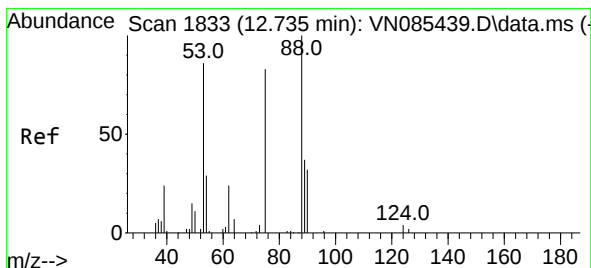
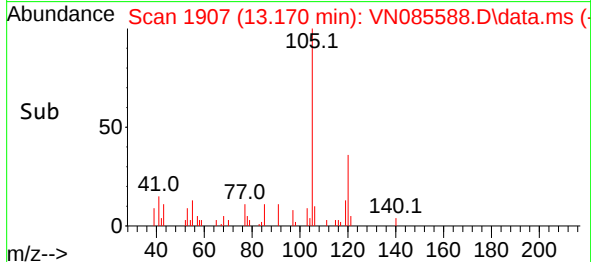
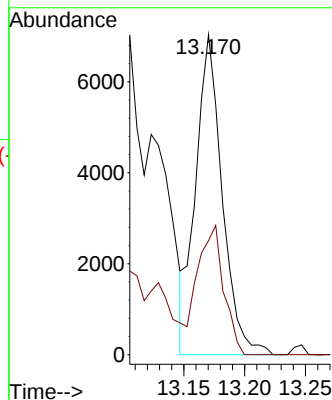
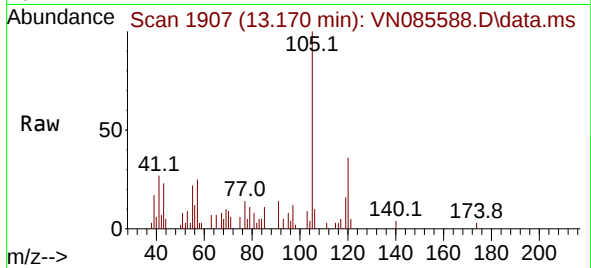




#80
1,3,5-Trimethylbenzene
Concen: 1.404 ug/l
RT: 13.170 min Scan# 1907
Delta R.T. -0.000 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

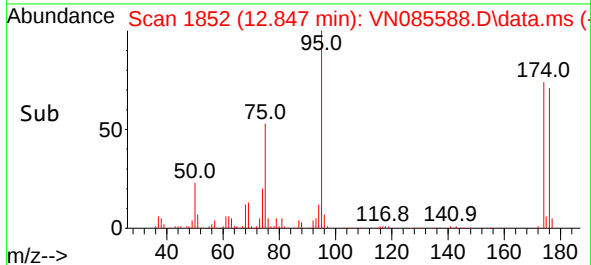
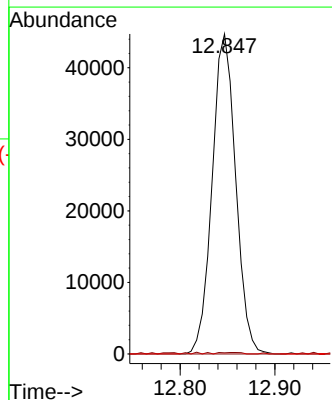
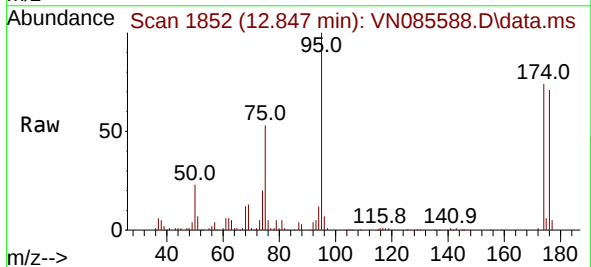
Instrument :
MSVOA_N
ClientSampleId :

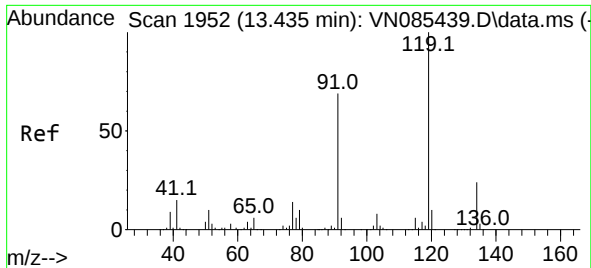
Tgt Ion:105 Resp: 10666
Ion Ratio Lower Upper
105 100
120 39.0 23.9 71.7



#81
trans-1,4-Dichloro-2-butene
Concen: 75.380 ug/l
RT: 12.847 min Scan# 1852
Delta R.T. 0.112 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Tgt Ion: 75 Resp: 77158
Ion Ratio Lower Upper
75 100
53 0.4 95.6 143.4#
89 0.0 37.0 55.6#

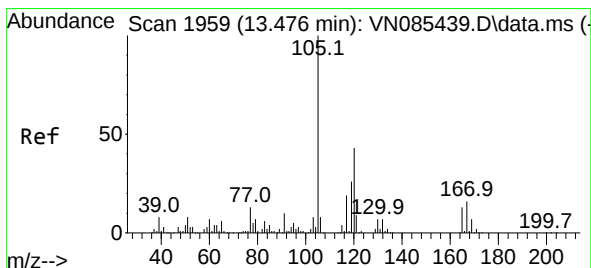
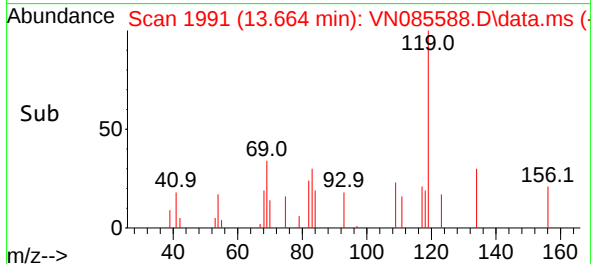
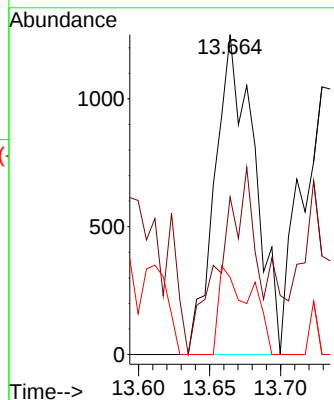
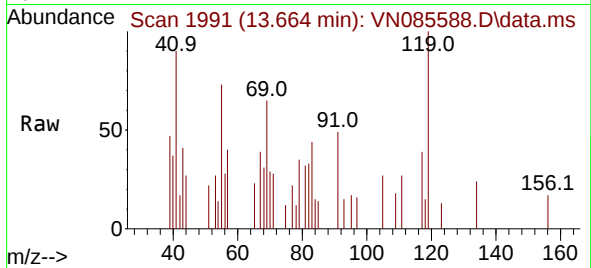




#83
tert-Butylbenzene
Concen: 0.376 ug/l
RT: 13.664 min Scan# 1991
Delta R.T. 0.229 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

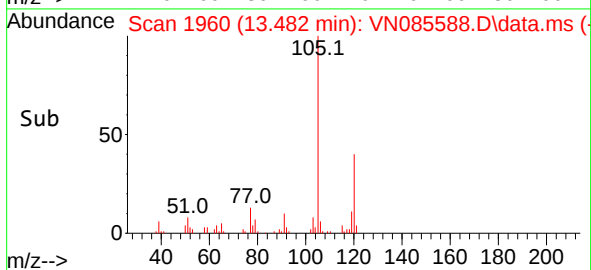
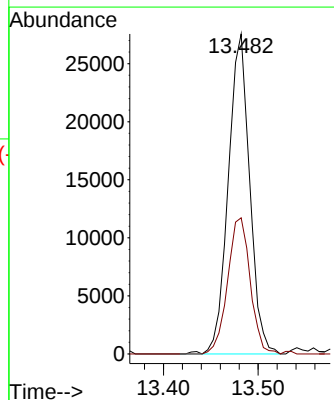
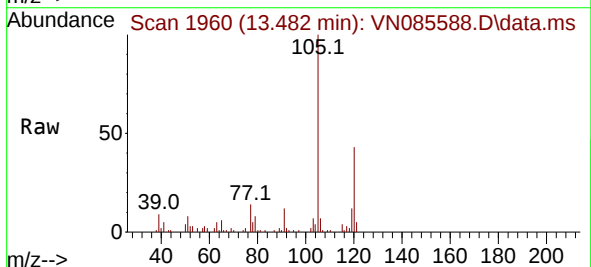
Instrument :
MSVOA_N
ClientSampleId :

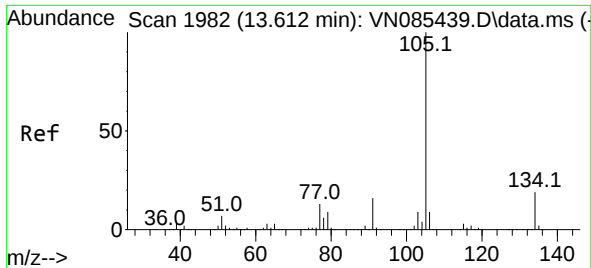
Tgt Ion:119 Resp: 2401
Ion Ratio Lower Upper
119 100
91 63.4 35.1 105.3
134 22.1 12.0 36.1



#84
1,2,4-Trimethylbenzene
Concen: 5.720 ug/l
RT: 13.482 min Scan# 1960
Delta R.T. 0.006 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Tgt Ion:105 Resp: 43307
Ion Ratio Lower Upper
105 100
120 44.8 21.6 65.0

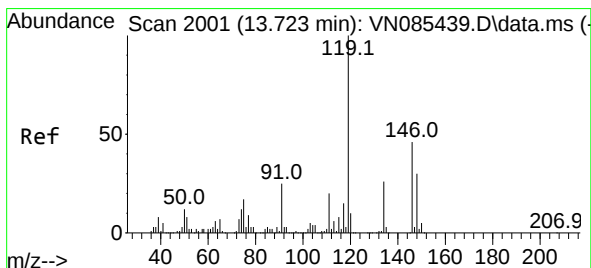
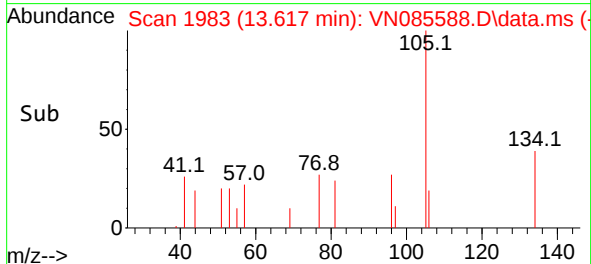
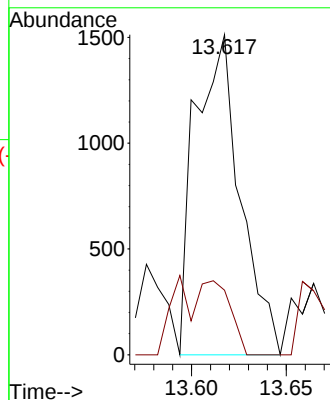
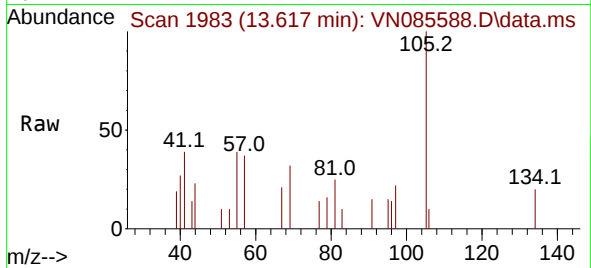




#85
 sec-Butylbenzene
 Concen: 0.284 ug/l
 RT: 13.617 min Scan# 1982
 Delta R.T. 0.005 min
 Lab File: VN085588.D
 Acq: 30 Jan 2025 18:42

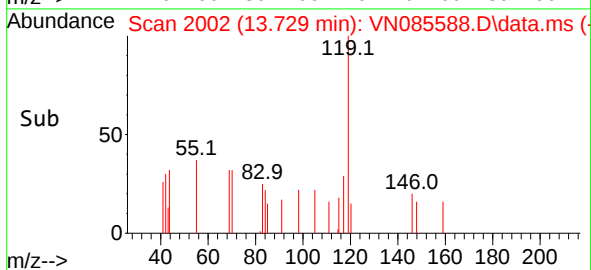
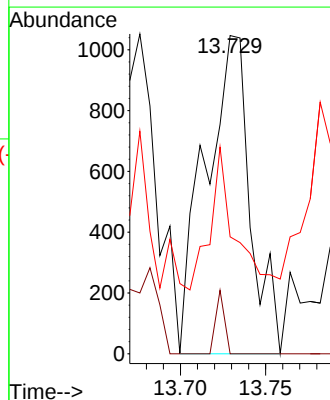
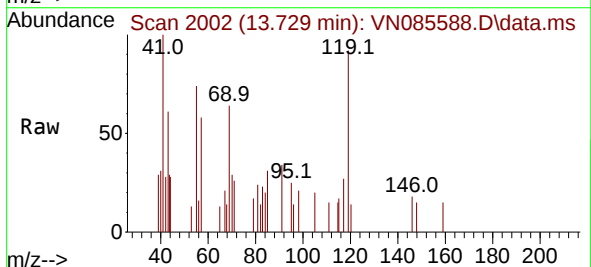
Instrument :
 MSVOA_N
 ClientSampleId :

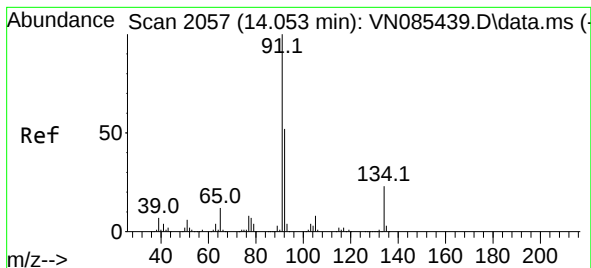
Tgt Ion:105 Resp: 2511
 Ion Ratio Lower Upper
 105 100
 134 16.1 9.7 28.9



#86
 p-Isopropyltoluene
 Concen: 0.299 ug/l
 RT: 13.729 min Scan# 2002
 Delta R.T. 0.006 min
 Lab File: VN085588.D
 Acq: 30 Jan 2025 18:42

Tgt Ion:119 Resp: 1925
 Ion Ratio Lower Upper
 119 100
 134 0.0 12.7 38.0#
 91 26.3 12.7 38.1





#89

n-Butylbenzene

Concen: 0.662 ug/l

RT: 14.053 min Scan# 2057

Delta R.T. -0.000 min

Lab File: VN085588.D

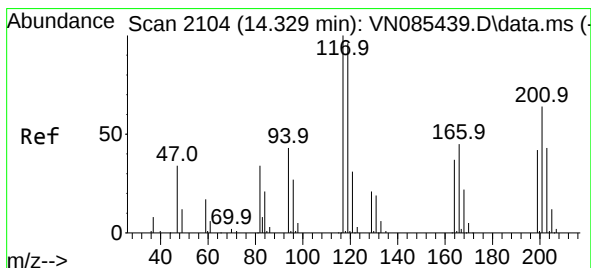
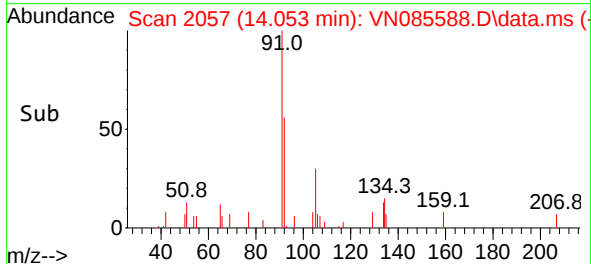
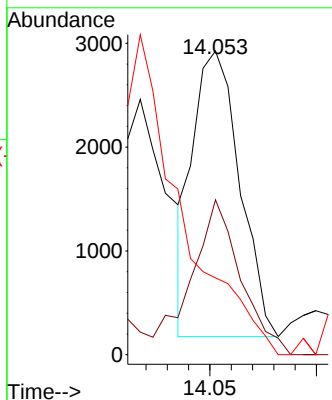
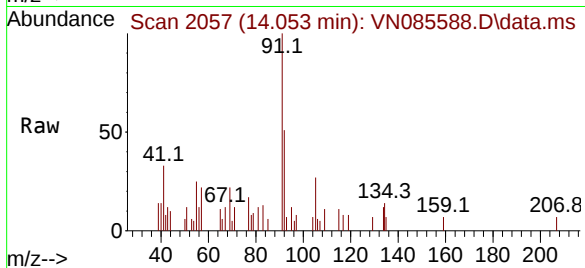
Acq: 30 Jan 2025 18:42

Instrument :

MSVOA_N

ClientSampleId :

Tgt Ion:	91	Resp:	4199
Ion	Ratio	Lower	Upper
91	100		
92	56.9	25.8	77.3
134	0.0	11.7	35.1#



#90

Hexachloroethane

Concen: 1.355 ug/l

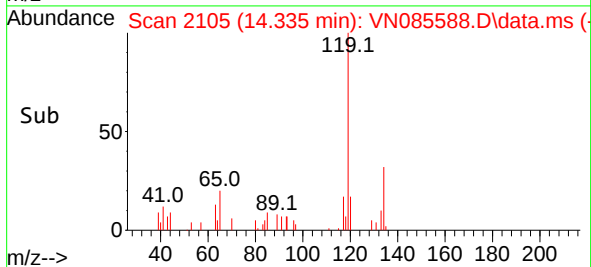
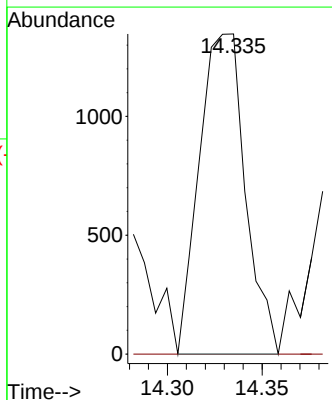
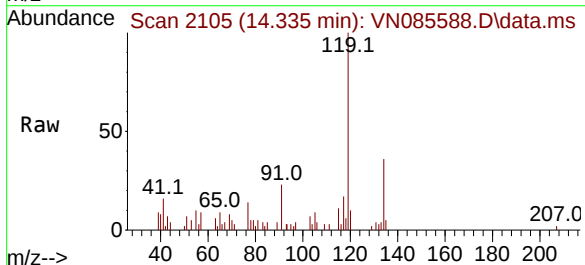
RT: 14.335 min Scan# 2105

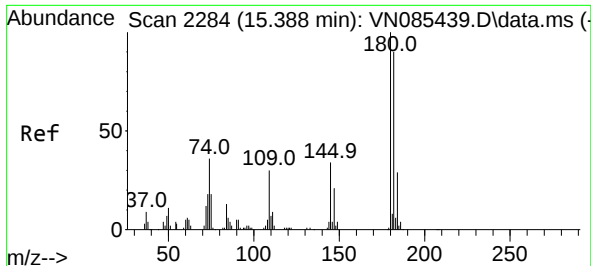
Delta R.T. 0.006 min

Lab File: VN085588.D

Acq: 30 Jan 2025 18:42

Tgt Ion:	117	Resp:	2281
Ion	Ratio	Lower	Upper
117	100		
201	0.0	33.7	101.0#

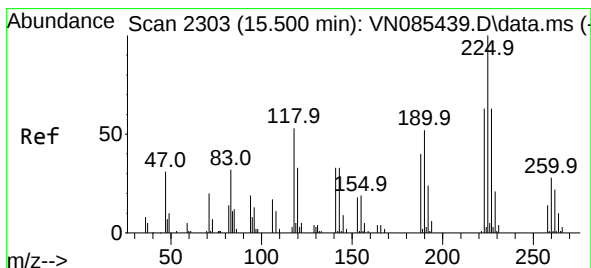
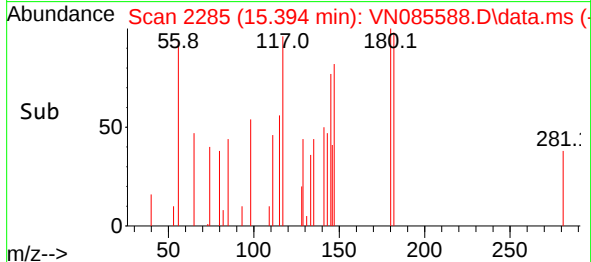
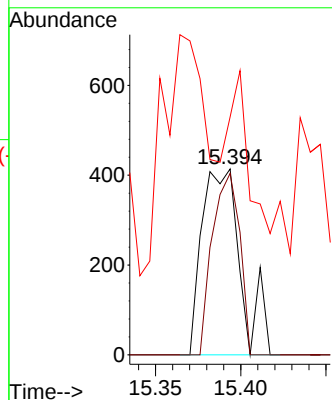
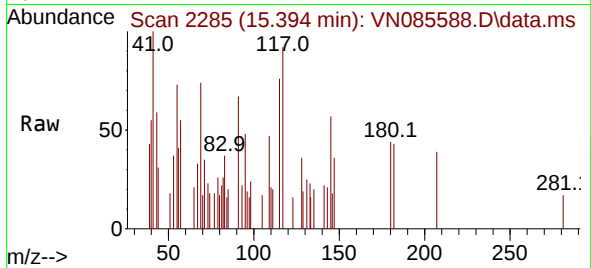




#93
1,2,4-Trichlorobenzene
Concen: 0.318 ug/l
RT: 15.394 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

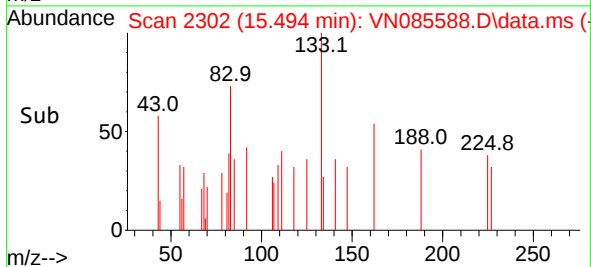
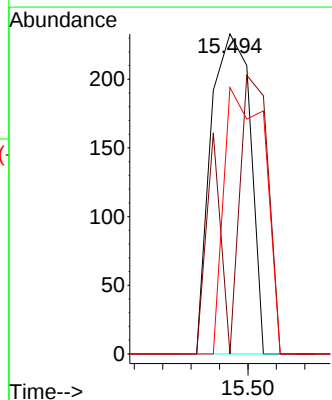
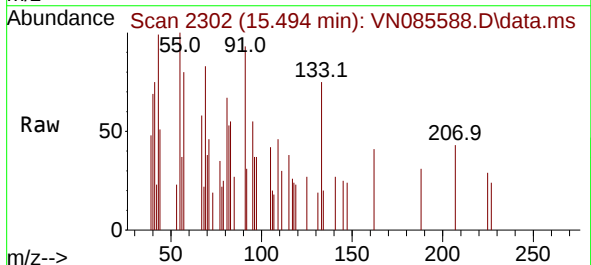
Instrument :
MSVOA_N
ClientSampleId :

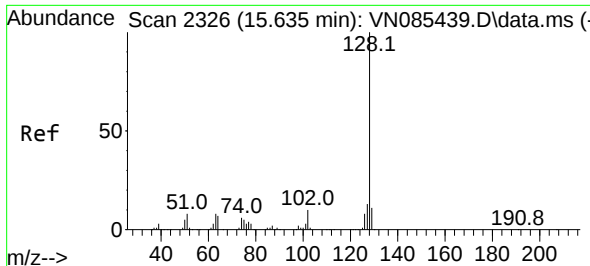
Tgt Ion:180 Resp: 652
Ion Ratio Lower Upper
180 100
182 68.9 46.8 140.3
145 114.3 16.0 48.0#



#94
Hexachlorobutadiene
Concen: 0.206 ug/l
RT: 15.494 min Scan# 2302
Delta R.T. -0.006 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Tgt Ion:225 Resp: 224
Ion Ratio Lower Upper
225 100
223 87.1 30.7 92.1
227 85.3 30.9 92.5

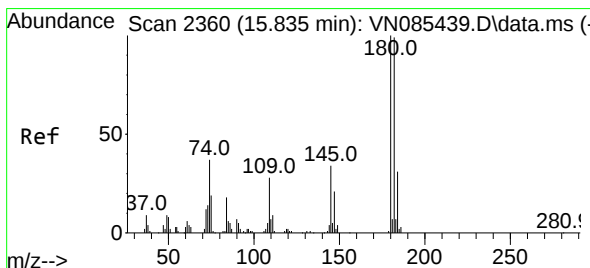
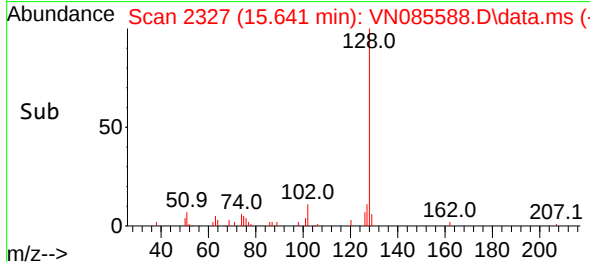
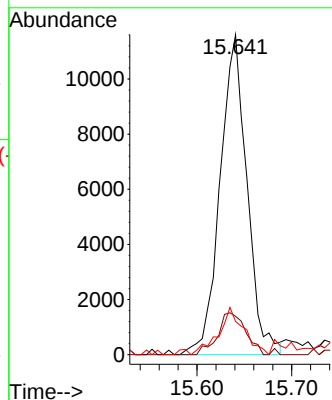
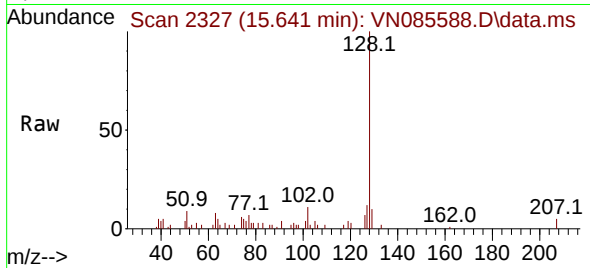




#95
Naphthalene
Concen: 3.747 ug/l
RT: 15.641 min Scan# 21
Delta R.T. 0.006 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Instrument :
MSVOA_N
ClientSampleId :

Tgt Ion:128 Resp: 22938
Ion Ratio Lower Upper
128 100
127 13.6 10.6 16.0
129 13.9 8.8 13.2#



#96
1,2,3-Trichlorobenzene
Concen: 0.250 ug/l
RT: 15.852 min Scan# 2363
Delta R.T. 0.017 min
Lab File: VN085588.D
Acq: 30 Jan 2025 18:42

Tgt Ion:180 Resp: 518
Ion Ratio Lower Upper
180 100
182 90.5 47.4 142.2
145 0.0 16.9 50.7#

