

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV100625\
 Data File : VV039277.D
 Acq On : 06 Oct 2025 16:33
 Operator : SY/MD
 Sample : Q3289-04
 Misc : 5.0mL/MSVOA_V/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VNJ-261

Quant Time: Oct 07 03:37:40 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V092225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 24 08:08:08 2025
 Response via : Initial Calibration

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

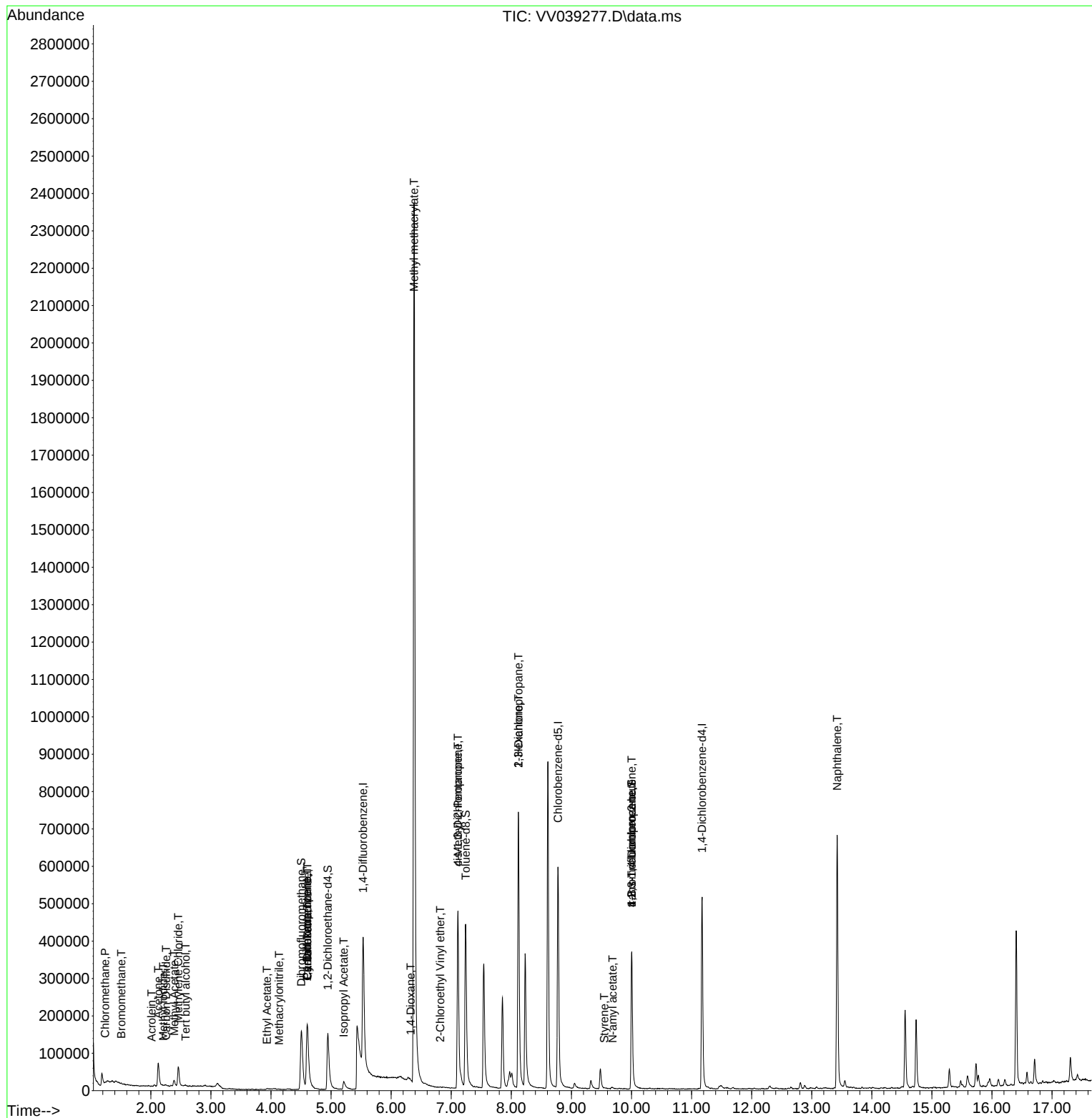
Internal Standards						
1) Pentafluorobenzene	4.603	168	154679	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.532	114	307906	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.777	117	338419	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.175	152	142971	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.944	65	133147	59.476	ug/l	0.00
Spiked Amount 50.000	Range 81 - 118		Recovery = 118.960%#			
35) Dibromofluoromethane	4.507	113	136120	54.991	ug/l	0.00
Spiked Amount 50.000	Range 80 - 119		Recovery = 109.980%			
50) Toluene-d8	7.240	98	330206	45.420	ug/l	0.00
Spiked Amount 50.000	Range 89 - 112		Recovery = 90.840%			
62) 4-Bromofluorobenzene	10.005	95	130830	43.714	ug/l	0.00
Spiked Amount 50.000	Range 85 - 114		Recovery = 87.420%			
Target Compounds						Qvalue
3) Chloromethane	1.237	50	636	0.242	ug/l #	64
5) Bromomethane	1.507	94	968	0.546	ug/l	90
6) Chloroethane	1.725	64	517	Below Cal	#	76
10) Methyl Iodide	2.208	142	935	0.405	ug/l #	57
11) Tert butyl alcohol	2.577	59	1182	2.498	ug/l #	84
13) Acrolein	2.011	56	133	1.620	ug/l #	15
16) Acetone	2.124	43	78646	50.607	ug/l	94
17) Carbon Disulfide	2.256	76	1982	0.278	ug/l #	74
18) Methyl Acetate	2.388	43	20253	6.106	ug/l	92
20) Methylene Chloride	2.458	84	24982	8.508	ug/l	93
31) Cyclohexane	4.603	56	3155	0.790	ug/l #	1
36) 1,1-Dichloropropene	4.600	75	13635	3.643	ug/l #	46
37) Ethyl Acetate	3.934	43	2783	0.613	ug/l #	72
38) Carbon Tetrachloride	4.606	117	16031	3.505	ug/l #	16
41) Methacrylonitrile	4.137	41	114	1.964	ug/l #	18
43) Isopropyl Acetate	5.211	43	29754	4.805	ug/l #	93
48) Methyl methacrylate	6.381	41	216921	77.286	ug/l #	39
49) 1,4-Dioxane	6.323	88	46	1.016	ug/l #	25
51) 4-Methyl-2-Pentanone	7.111	43	186098	45.686	ug/l #	48
54) cis-1,3-Dichloropropene	7.111	75	90154	19.551	ug/l #	67
57) 1,3-Dichloropropane	8.117	76	7921	1.584	ug/l #	42
58) 2-Chloroethyl Vinyl ether	6.815	63	47	9.644	ug/l #	47
59) 2-Hexanone	8.117	43	97369	31.663	ug/l #	57
70) Styrene	9.548	104	45	1.566	ug/l #	32
74) N-amyl acetate	9.686	43	1006	0.243	ug/l #	59
76) 1,2,3-Trichloropropane	10.005	75	64786	19.902	ug/l #	55
81) trans-1,4-Dichloro-2-b...	10.005	75	64786	47.779	ug/l #	13
92) 1,2-Dibromo-3-Chloropr...	12.426	75	68	Below Cal	#	5
95) Naphthalene	13.423	128	546019	57.931	ug/l	99

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

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.603 min Scan# 11

Delta R.T. 0.006 min

Lab File: VV039277.D

Acq: 06 Oct 2025 16:33

Instrument :

MSVOA_V

ClientSampleId :

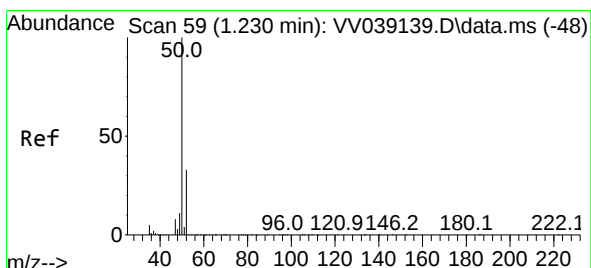
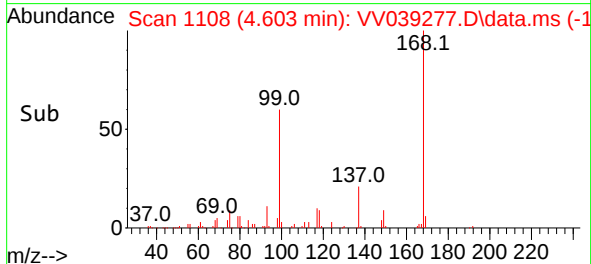
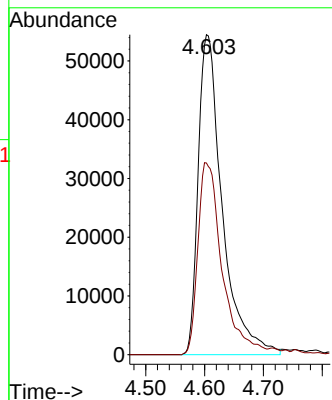
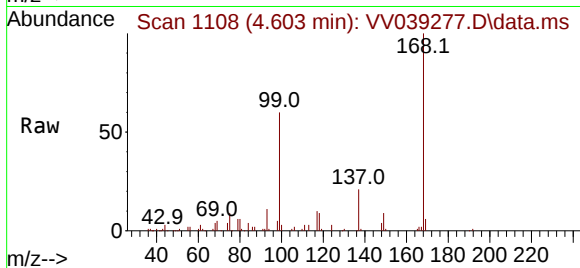
VNJ-261

Tgt Ion:168 Resp: 154679

Ion Ratio Lower Upper

168 100

99 59.9 49.6 74.4



#3

Chloromethane

Concen: 0.242 ug/l

RT: 1.237 min Scan# 61

Delta R.T. 0.007 min

Lab File: VV039277.D

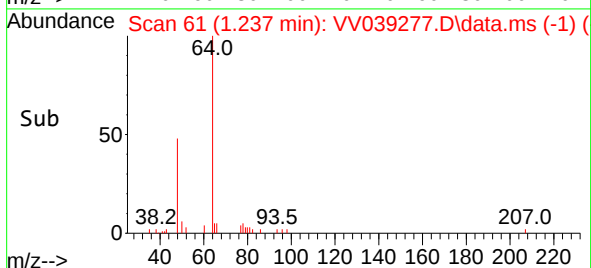
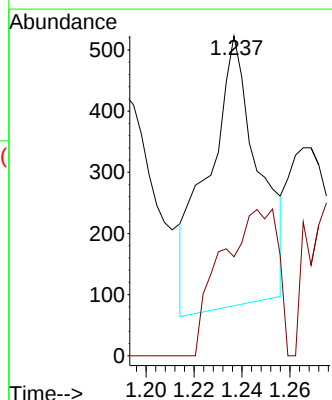
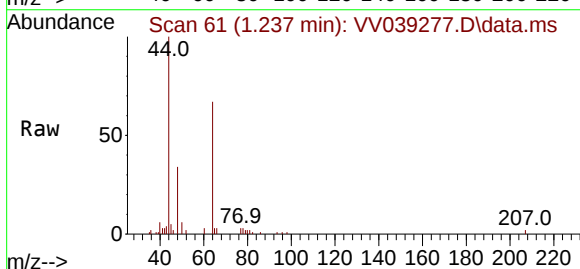
Acq: 06 Oct 2025 16:33

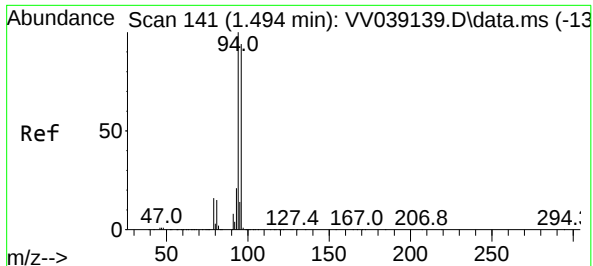
Tgt Ion: 50 Resp: 636

Ion Ratio Lower Upper

50 100

52 52.8 26.0 39.0#

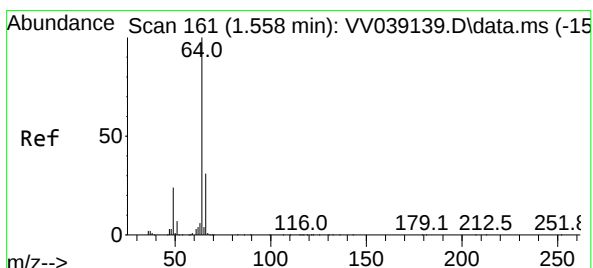
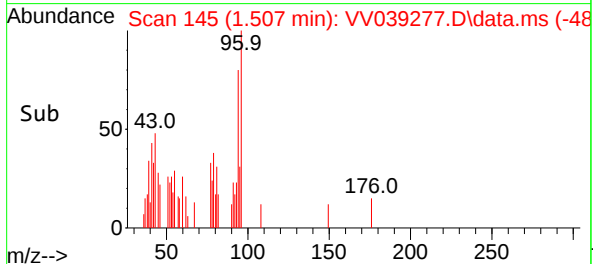
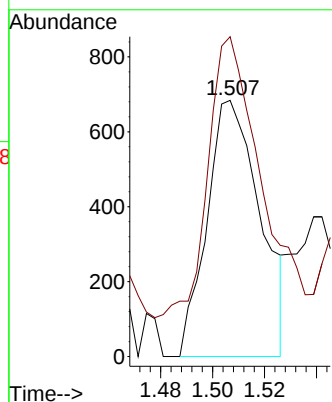
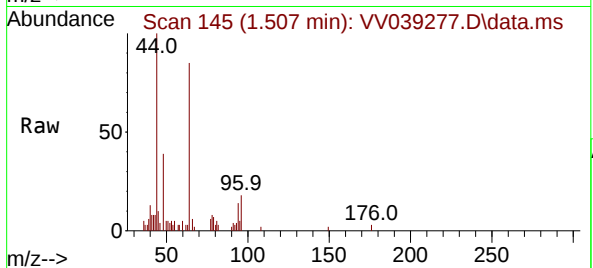




#5
Bromomethane
Concen: 0.546 ug/l
RT: 1.507 min Scan# 141
Delta R.T. 0.013 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

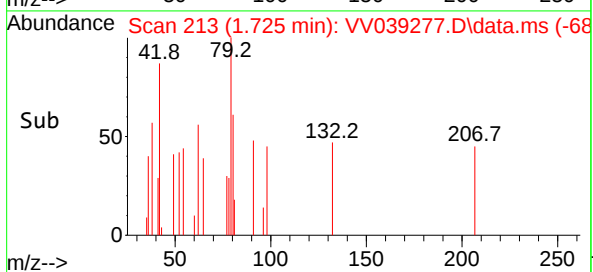
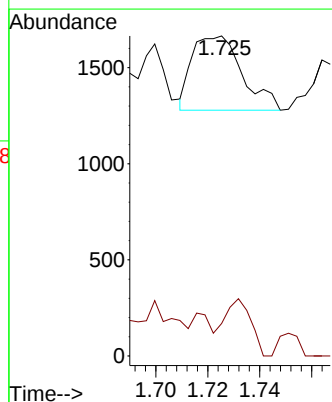
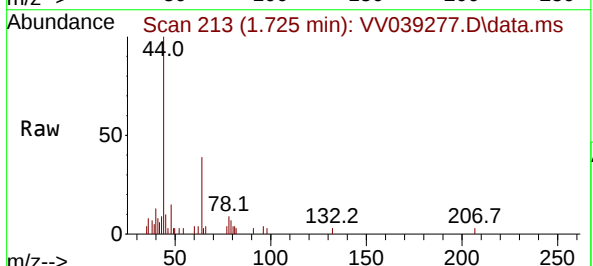
Instrument :
MSVOA_V
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VNJ-261

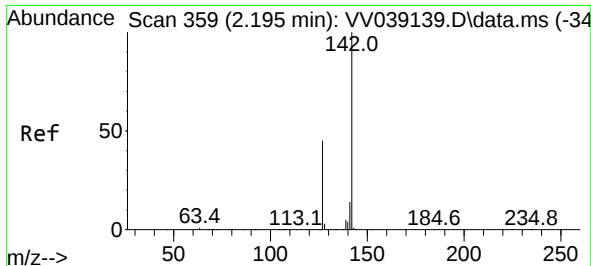
Tgt Ion: 94 Resp: 968
Ion Ratio Lower Upper
94 100
96 103.2 74.9 112.3



#6
Chloroethane
Concen: Below Cal
RT: 1.725 min Scan# 213
Delta R.T. 0.167 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion: 64 Resp: 517
Ion Ratio Lower Upper
64 100
66 17.4 24.6 36.8#

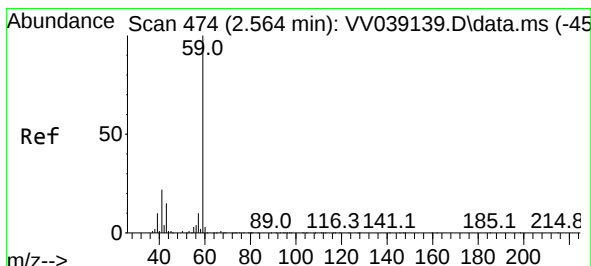
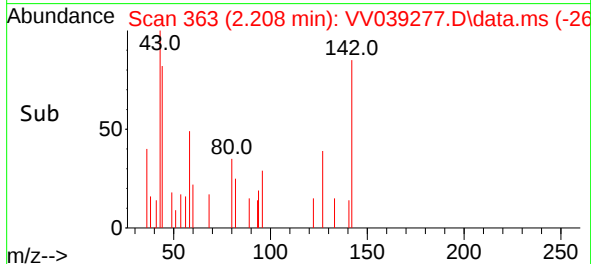
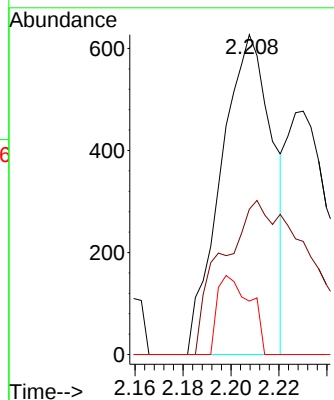
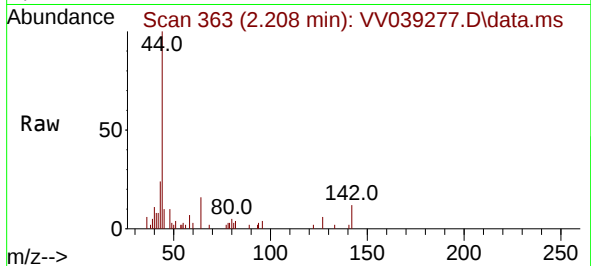




#10
Methyl Iodide
Concen: 0.405 ug/l
RT: 2.208 min Scan# 30
Delta R.T. 0.013 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

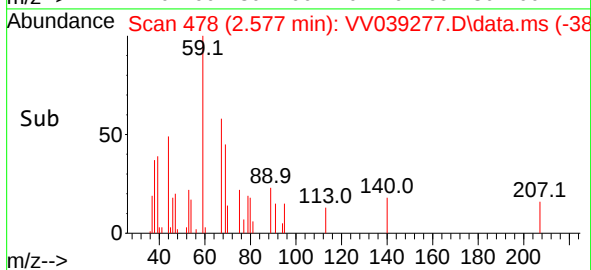
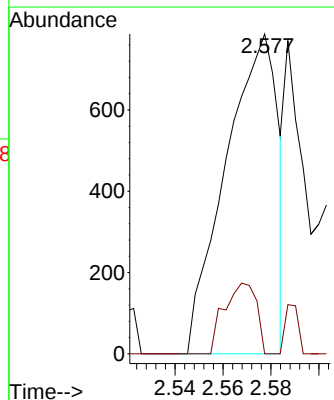
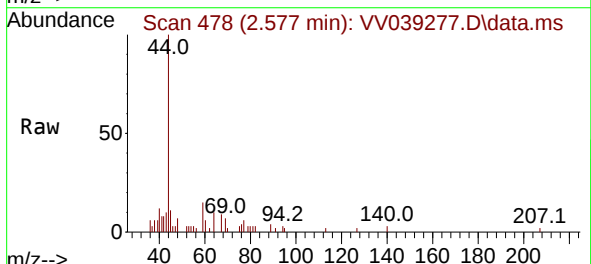
Instrument :
MSVOA_V
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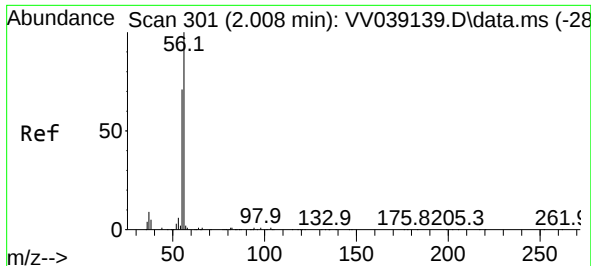
Tgt Ion:142 Resp: 935
Ion Ratio Lower Upper
142 100
127 81.4 36.3 54.5#
141 15.6 11.2 16.8



#11
Tert butyl alcohol
Concen: 2.498 ug/l
RT: 2.577 min Scan# 478
Delta R.T. 0.013 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion: 59 Resp: 1182
Ion Ratio Lower Upper
59 100
57 3.9 7.8 11.8#

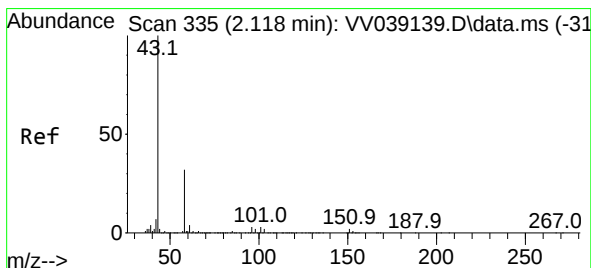
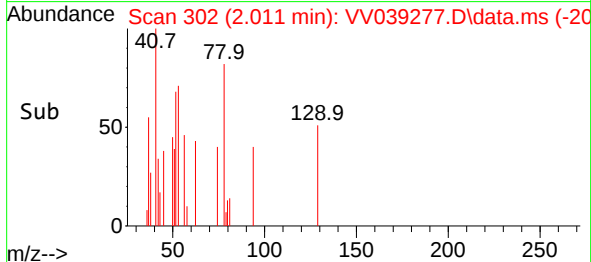
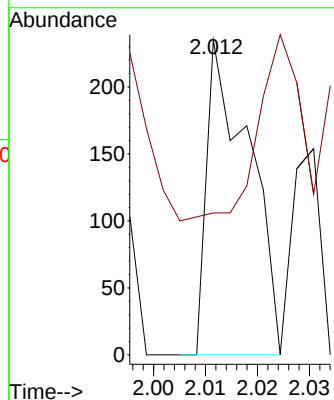
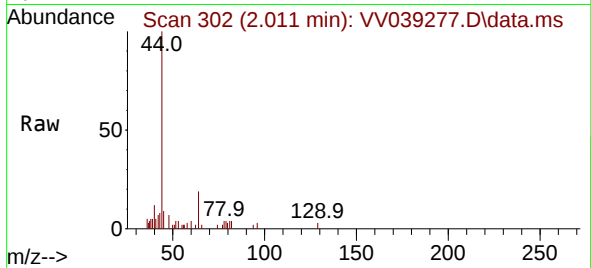




#13
Acrolein
Concen: 1.620 ug/l
RT: 2.011 min Scan# 301
Delta R.T. 0.003 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

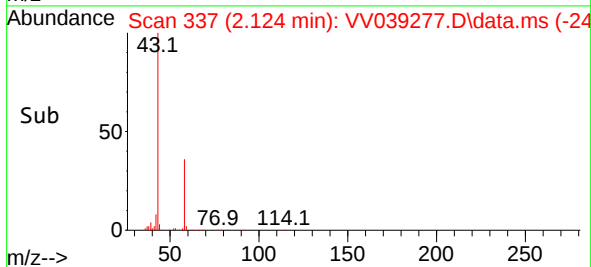
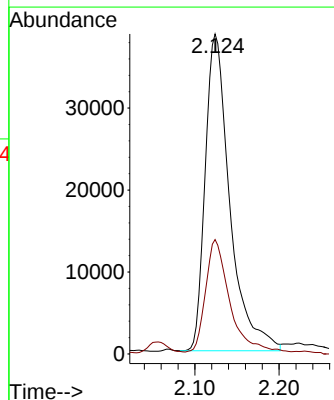
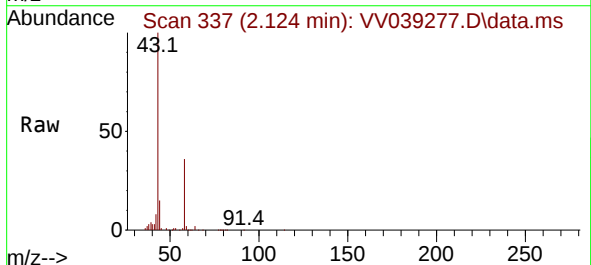
Instrument :
MSVOA_V
ClientSampleId :
VNJ-261

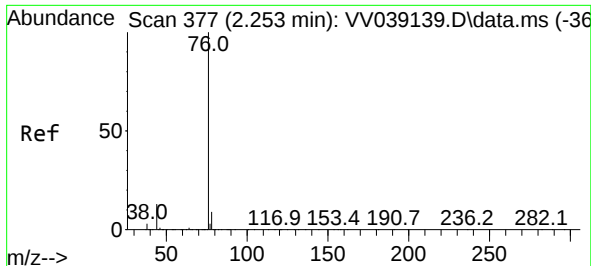
Tgt Ion: 56 Resp: 133
Ion Ratio Lower Upper
56 100
55 0.0 56.2 84.4#



#16
Acetone
Concen: 50.607 ug/l
RT: 2.124 min Scan# 337
Delta R.T. 0.006 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion: 43 Resp: 78646
Ion Ratio Lower Upper
43 100
58 35.3 25.8 38.6

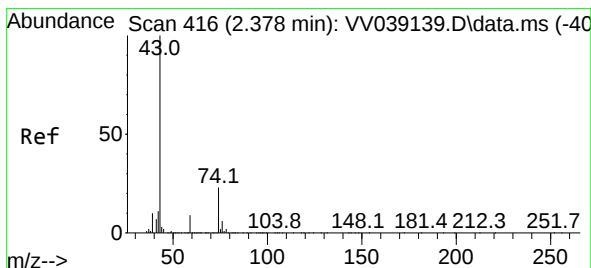
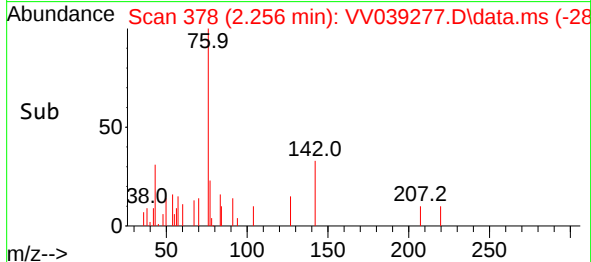
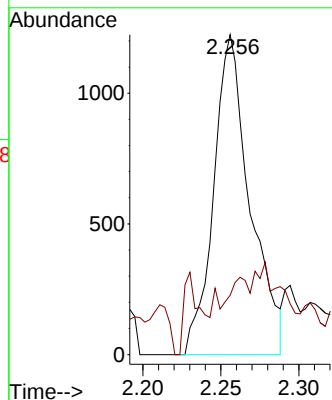
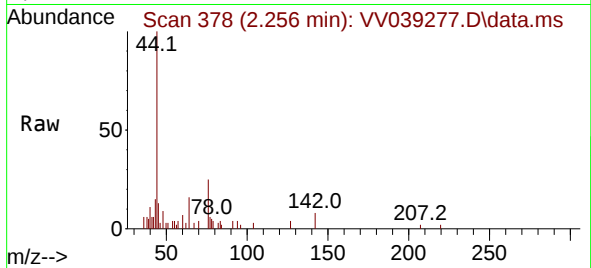




#17
Carbon Disulfide
Concen: 0.278 ug/l
RT: 2.256 min Scan# 31
Delta R.T. 0.003 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

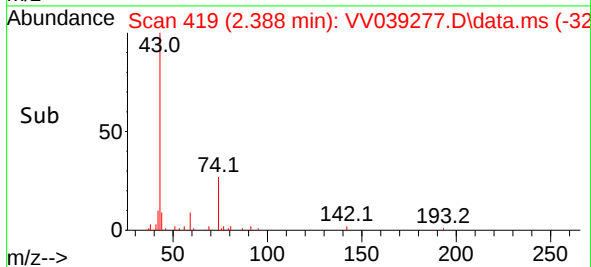
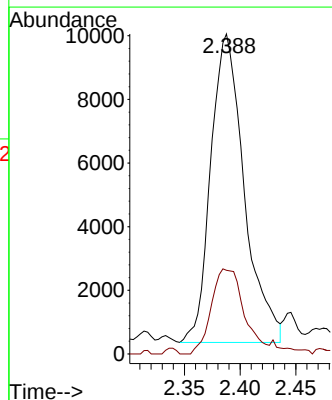
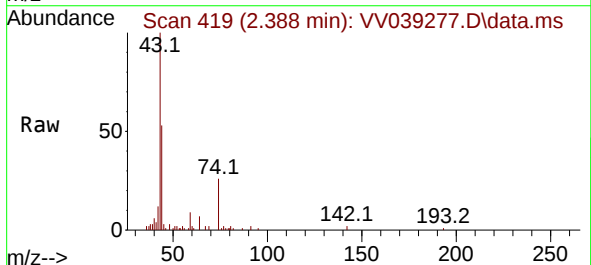
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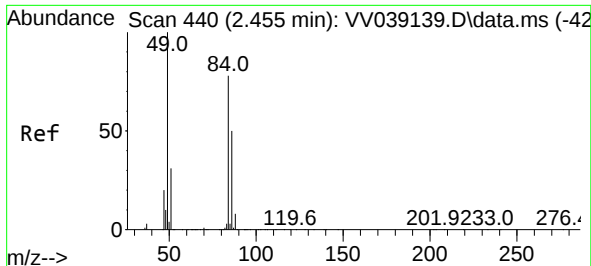
Tgt Ion: 76 Resp: 1982
Ion Ratio Lower Upper
76 100
78 18.5 7.4 11.0#



#18
Methyl Acetate
Concen: 6.106 ug/l
RT: 2.388 min Scan# 419
Delta R.T. 0.010 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion: 43 Resp: 20253
Ion Ratio Lower Upper
43 100
74 26.9 18.6 27.8

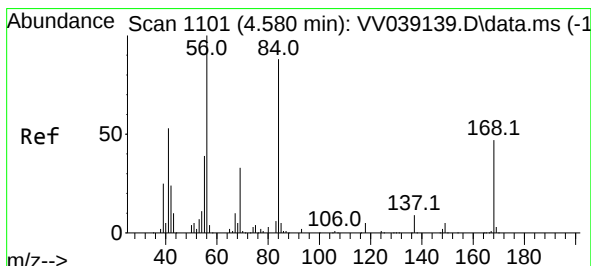
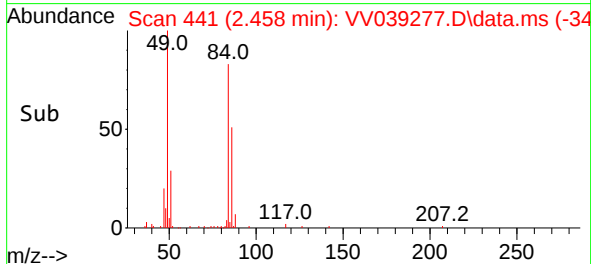
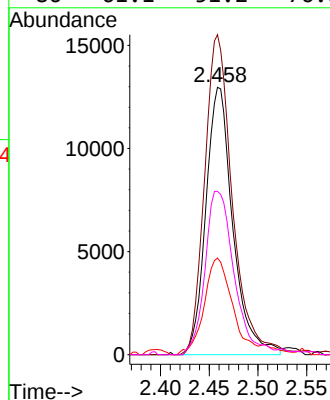
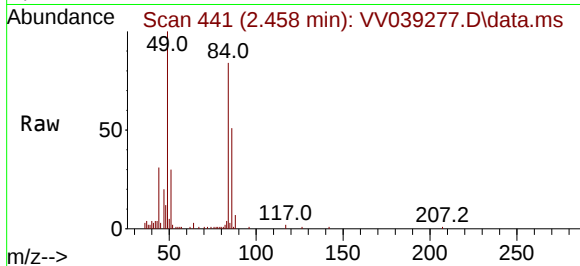




#20
Methylene Chloride
Concen: 8.508 ug/l
RT: 2.458 min Scan# 441
Delta R.T. 0.003 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

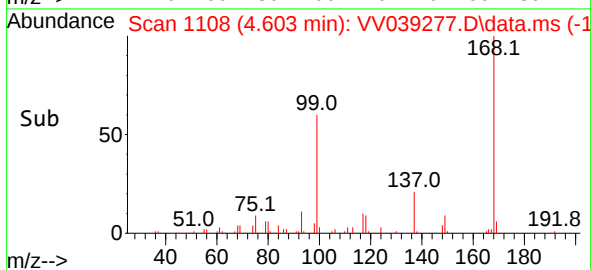
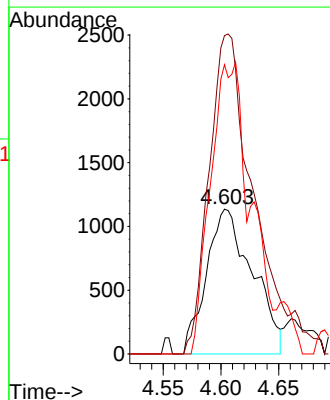
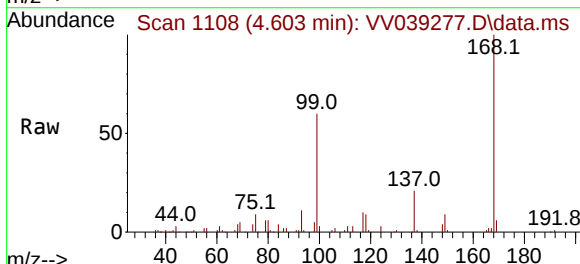
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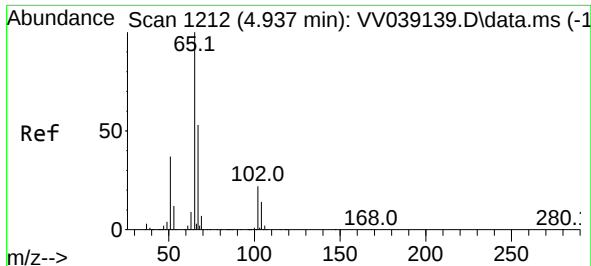
Tgt Ion:	84	Resp:	24982
Ion	Ratio	Lower	Upper
84	100		
49	119.7	102.8	154.2
51	35.2	31.9	47.9
86	61.1	51.2	76.8



#31
Cyclohexane
Concen: 0.790 ug/l
RT: 4.603 min Scan# 1108
Delta R.T. 0.023 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion:	56	Resp:	3155
Ion	Ratio	Lower	Upper
56	100		
69	219.8	26.2	39.2#
84	199.6	70.3	105.5#





#33

1,2-Dichloroethane-d4

Concen: 59.476 ug/l

RT: 4.944 min Scan# 1

Delta R.T. 0.007 min

Lab File: VV039277.D

Acq: 06 Oct 2025 16:33

Instrument :

MSVOA_V

ClientSampleId :

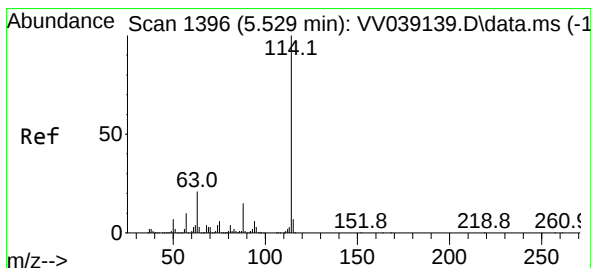
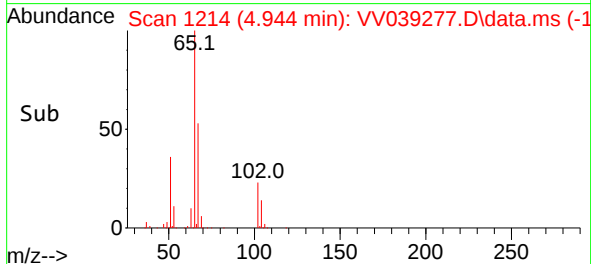
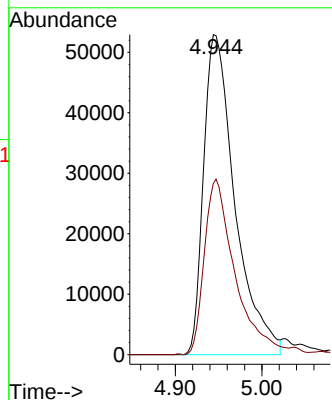
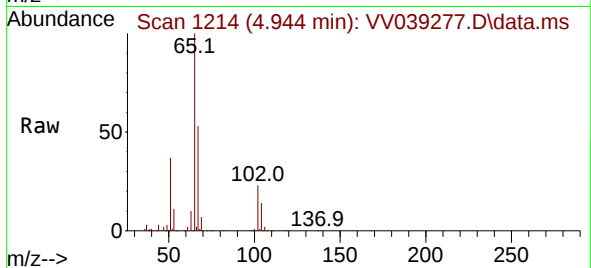
VNJ-261

Tgt Ion: 65 Resp: 133147

Ion Ratio Lower Upper

65 100

67 53.6 0.0 107.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.532 min Scan# 1397

Delta R.T. 0.003 min

Lab File: VV039277.D

Acq: 06 Oct 2025 16:33

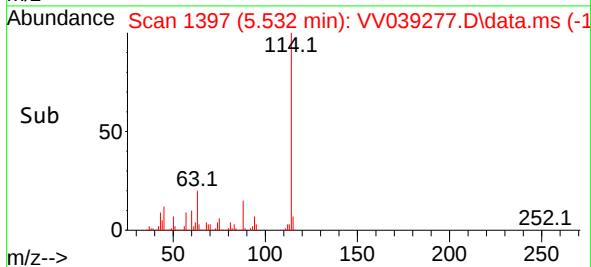
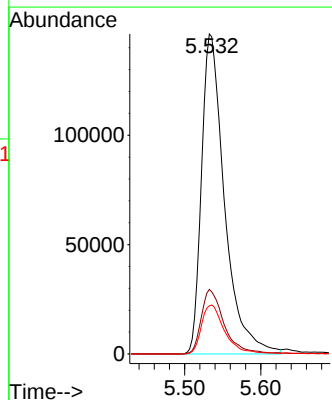
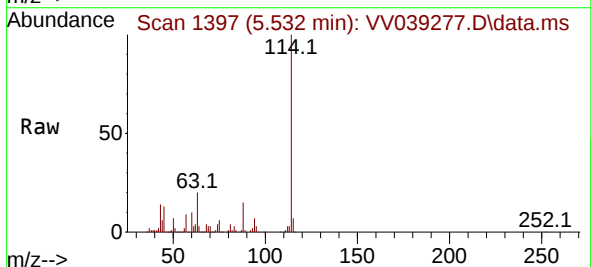
Tgt Ion: 114 Resp: 307906

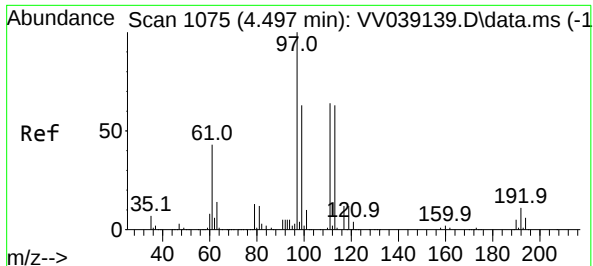
Ion Ratio Lower Upper

114 100

63 20.2 0.0 42.6

88 15.1 0.0 30.8





#35

Dibromofluoromethane

Concen: 54.991 ug/l

RT: 4.507 min Scan# 1107

Delta R.T. 0.010 min

Lab File: VV039277.D

Acq: 06 Oct 2025 16:33

Instrument :

MSVOA_V

ClientSampleId :

VNJ-261

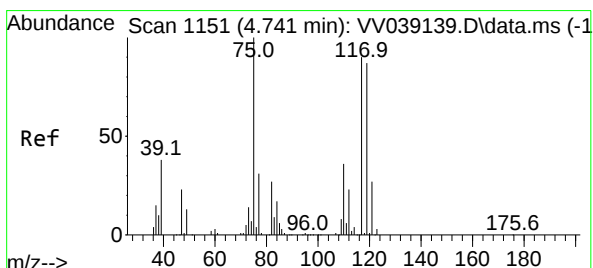
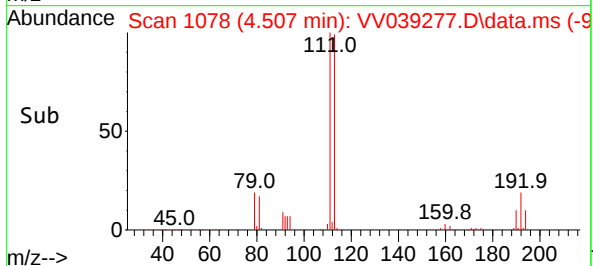
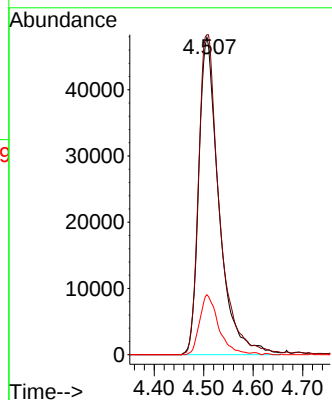
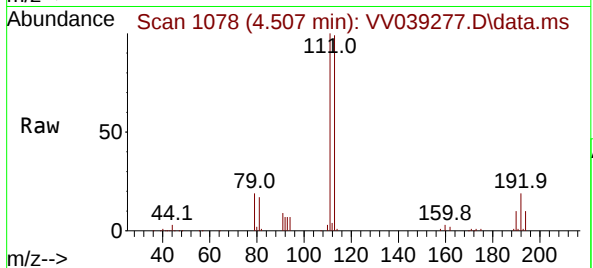
Tgt Ion:113 Resp: 136120

Ion Ratio Lower Upper

113 100

111 101.3 82.4 123.6

192 17.7 13.8 20.8



#36

1,1-Dichloropropene

Concen: 3.643 ug/l

RT: 4.600 min Scan# 1107

Delta R.T. -0.141 min

Lab File: VV039277.D

Acq: 06 Oct 2025 16:33

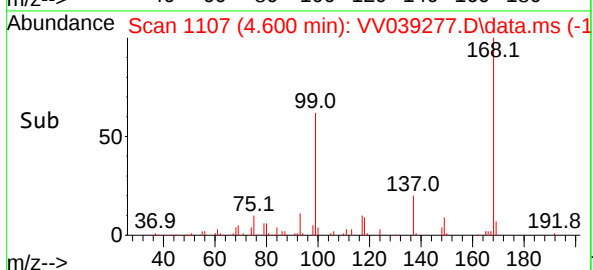
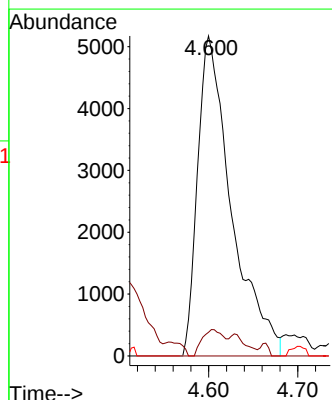
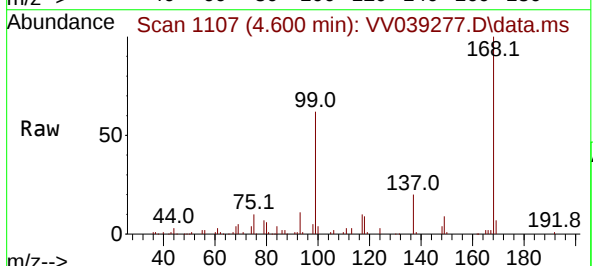
Tgt Ion: 75 Resp: 13635

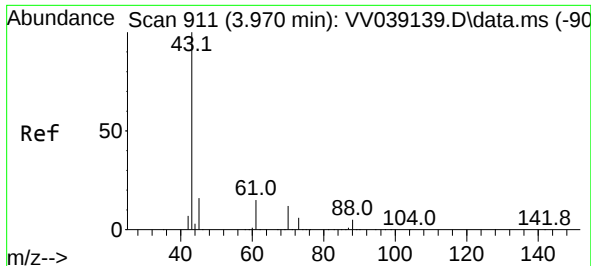
Ion Ratio Lower Upper

75 100

110 5.1 18.1 54.1#

77 0.0 24.8 37.2#

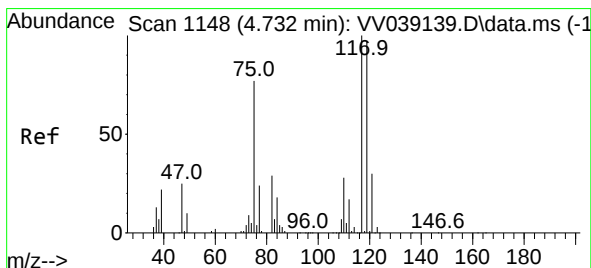
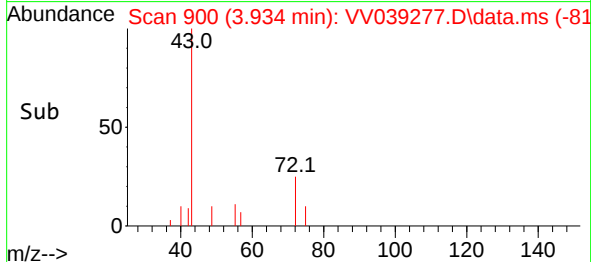
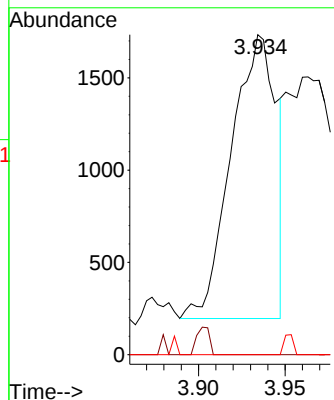
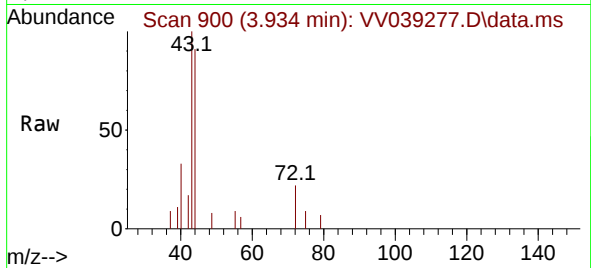




#37
Ethyl Acetate
Concen: 0.613 ug/l
RT: 3.934 min Scan# 90
Delta R.T. -0.036 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

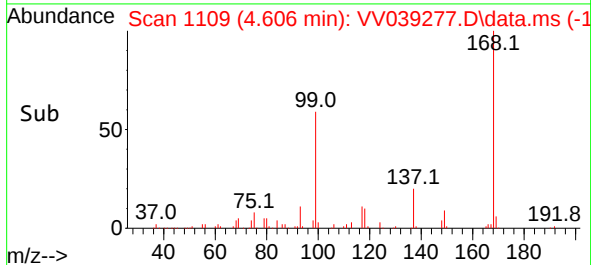
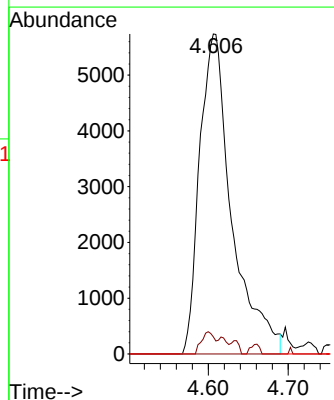
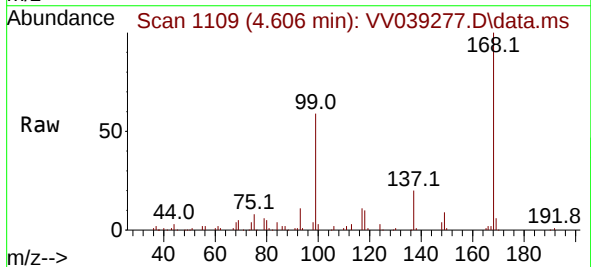
Instrument :
MSVOA_V
ClientSampleId :
VNJ-261

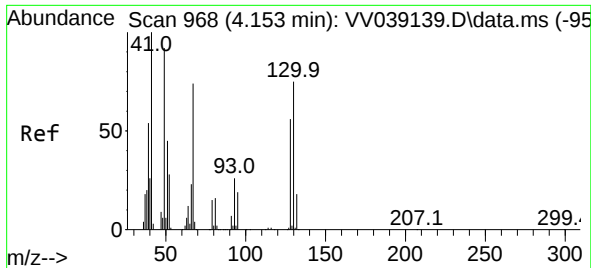
Tgt Ion: 43 Resp: 2783
Ion Ratio Lower Upper
43 100
61 0.0 10.3 15.5#
70 1.5 8.0 12.0#



#38
Carbon Tetrachloride
Concen: 3.505 ug/l
RT: 4.606 min Scan# 1109
Delta R.T. -0.126 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion: 117 Resp: 16031
Ion Ratio Lower Upper
117 100
119 5.4 77.2 115.8#
121 0.0 24.2 36.2#

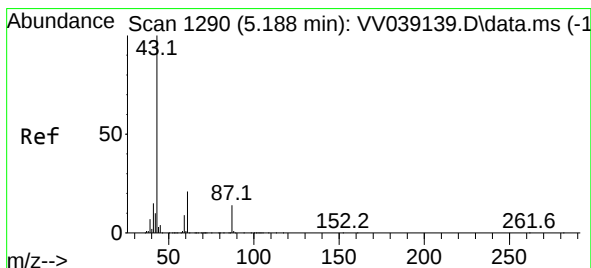
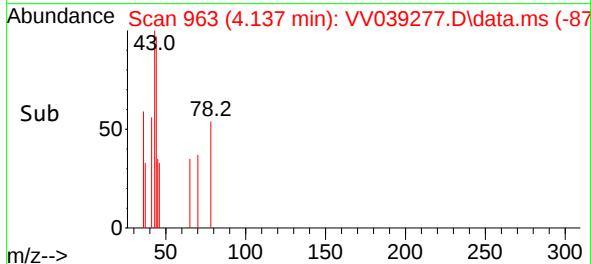
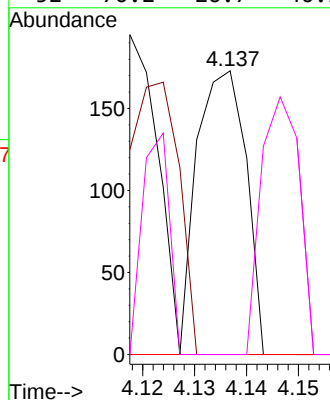
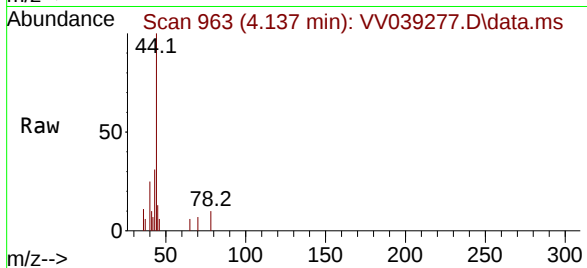




#41
Methacrylonitrile
Concen: 1.964 ug/l
RT: 4.137 min Scan# 90
Delta R.T. -0.016 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

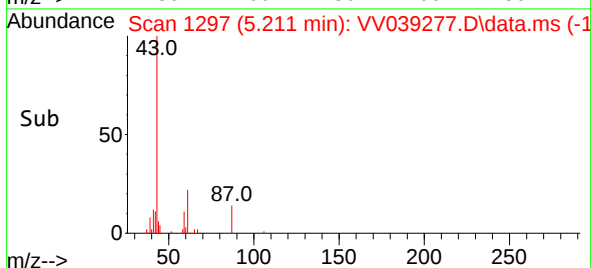
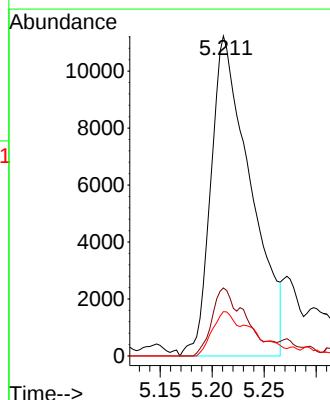
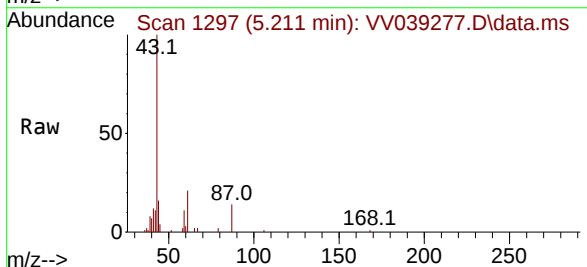
Instrument :
MSVOA_V
ClientSampleId :
VNJ-261

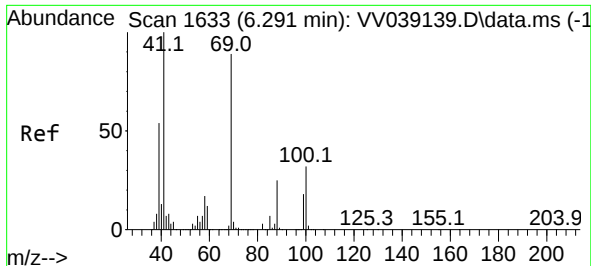
Tgt Ion:	41	Resp:	114
Ion	Ratio	Lower	Upper
41	100		
39	0.0	42.2	63.2#
67	0.0	67.9	101.9#
52	70.2	26.7	40.1#



#43
Isopropyl Acetate
Concen: 4.805 ug/l
RT: 5.211 min Scan# 1297
Delta R.T. 0.023 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion:	43	Resp:	29754
Ion	Ratio	Lower	Upper
43	100		
61	18.6	15.9	23.9
87	8.5	11.0	16.6#

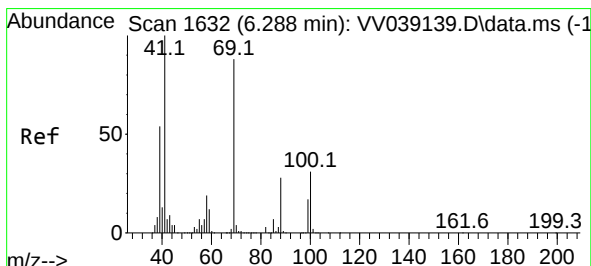
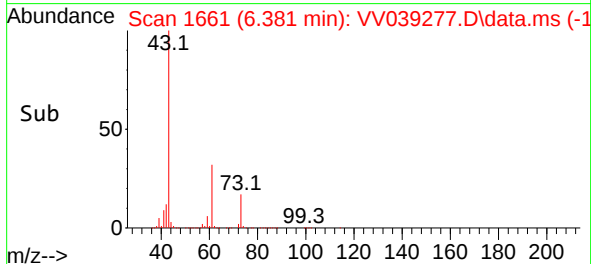
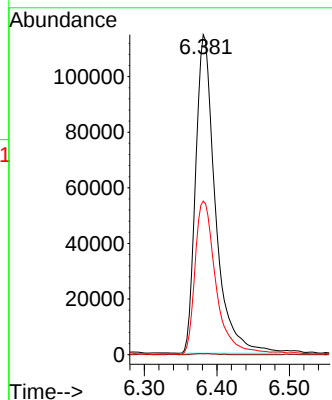
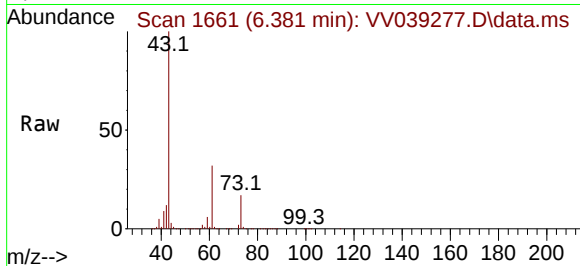




#48
Methyl methacrylate
Concen: 77.286 ug/l
RT: 6.381 min Scan# 1
Delta R.T. 0.090 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

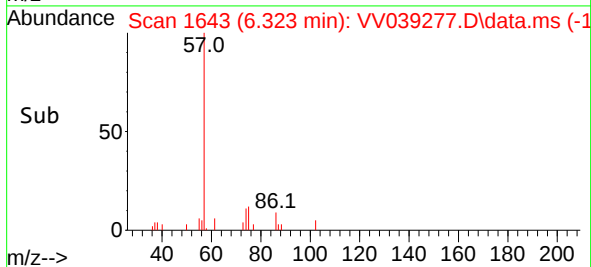
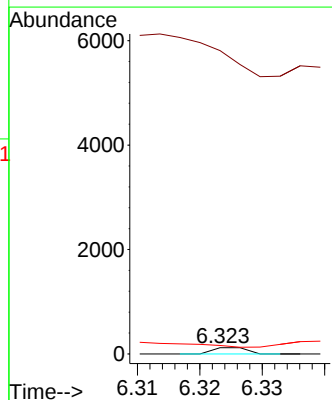
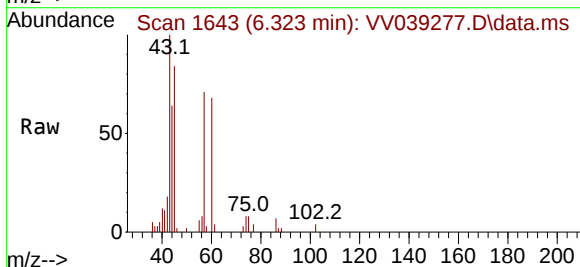
Instrument :
MSVOA_V
ClientSampleId :
VNJ-261

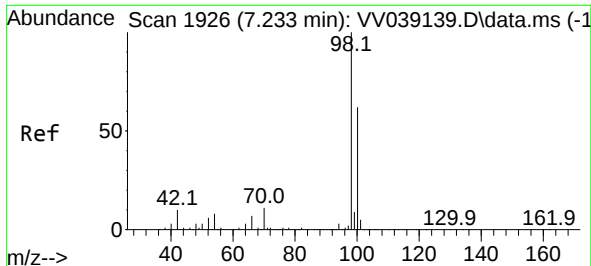
Tgt Ion: 41 Resp: 216921
Ion Ratio Lower Upper
41 100
69 0.2 72.4 108.6#
39 51.0 42.5 63.7



#49
1,4-Dioxane
Concen: 1.016 ug/l
RT: 6.323 min Scan# 1643
Delta R.T. 0.035 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion: 88 Resp: 46
Ion Ratio Lower Upper
88 100
43 0.0 25.1 37.7#
58 0.0 53.6 80.4#

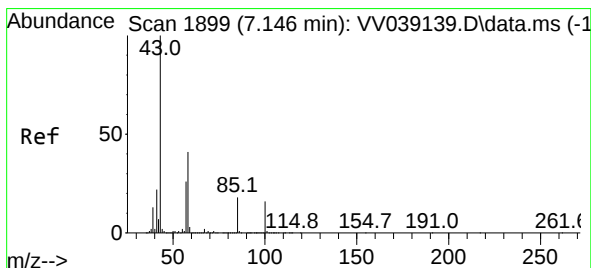
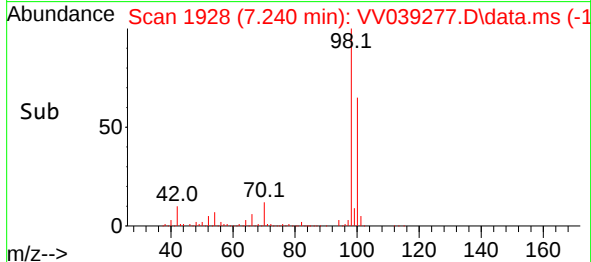
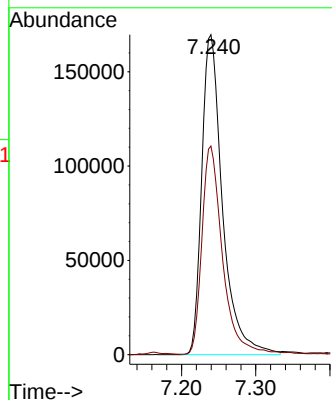
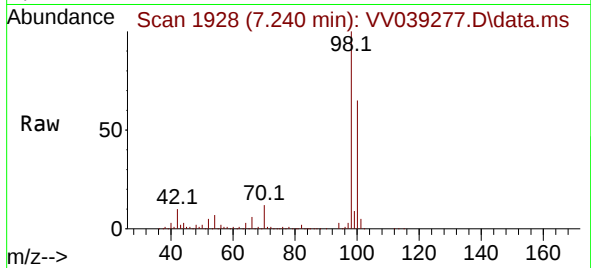




#50
Toluene-d8
Concen: 45.420 ug/l
RT: 7.240 min Scan# 1926
Delta R.T. 0.007 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

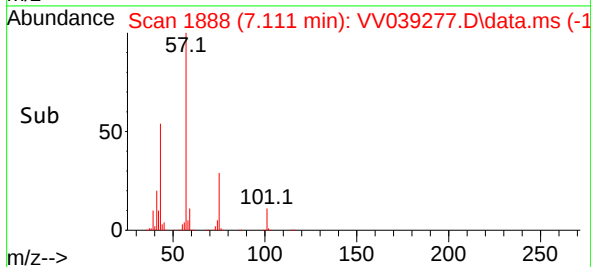
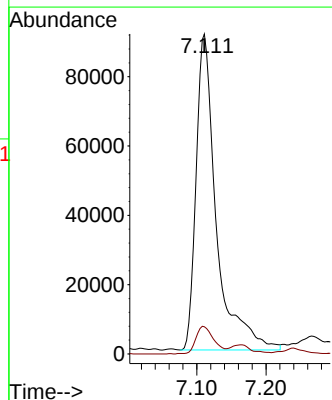
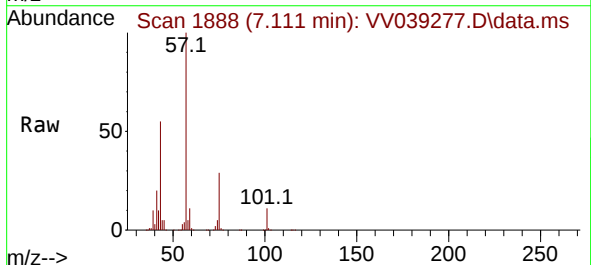
Instrument :
MSVOA_V
ClientSampleId :
VNJ-261

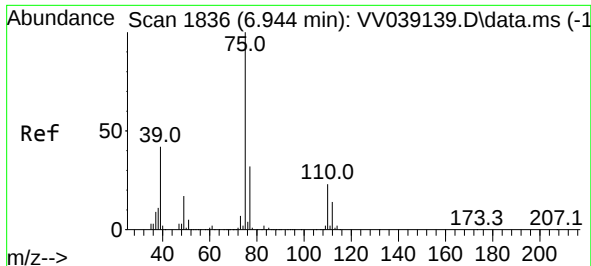
Tgt Ion: 98 Resp: 330206
Ion Ratio Lower Upper
98 100
100 64.0 52.2 78.2



#51
4-Methyl-2-Pentanone
Concen: 45.686 ug/l
RT: 7.111 min Scan# 1888
Delta R.T. -0.035 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion: 43 Resp: 186098
Ion Ratio Lower Upper
43 100
58 7.8 32.3 48.5#





#54

cis-1,3-Dichloropropene

Concen: 19.551 ug/l

RT: 7.111 min Scan# 11

Delta R.T. 0.167 min

Lab File: VV039277.D

Acq: 06 Oct 2025 16:33

Instrument :

MSVOA_V

ClientSampleId :

VNJ-261

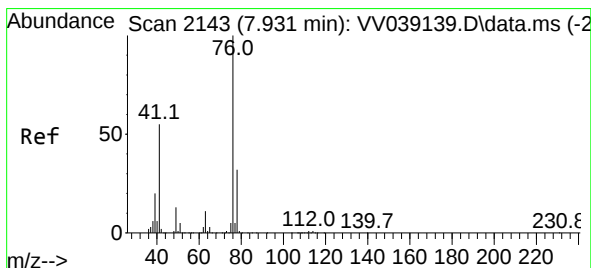
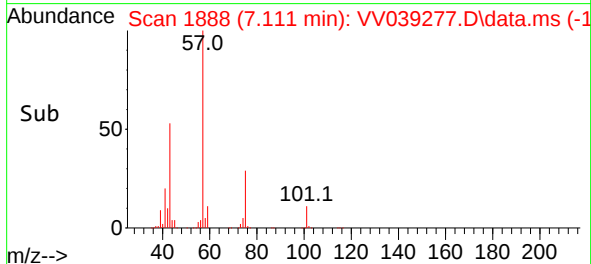
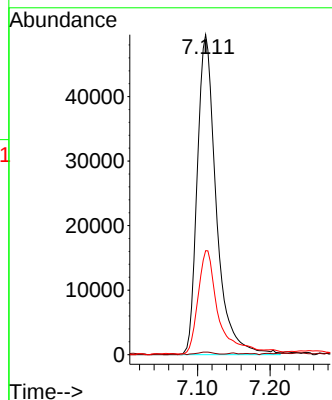
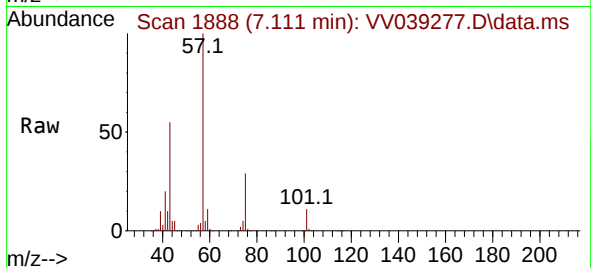
Tgt Ion: 75 Resp: 90154

Ion Ratio Lower Upper

75 100

77 0.6 25.5 38.3#

39 32.3 33.8 50.6#



#57

1,3-Dichloropropane

Concen: 1.584 ug/l

RT: 8.117 min Scan# 2201

Delta R.T. 0.186 min

Lab File: VV039277.D

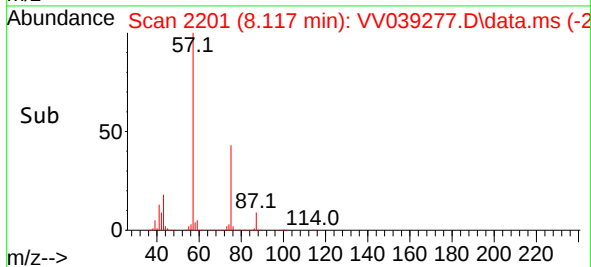
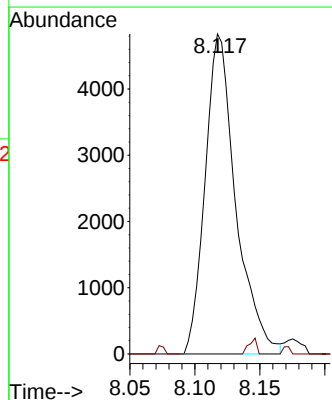
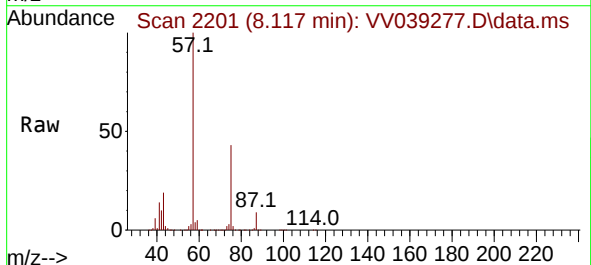
Acq: 06 Oct 2025 16:33

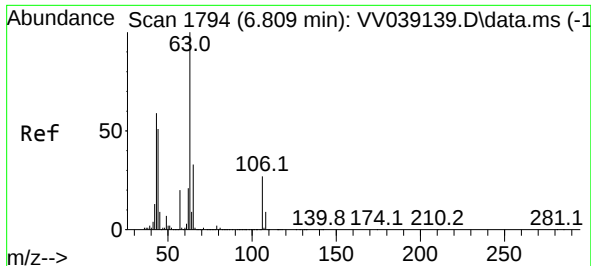
Tgt Ion: 76 Resp: 7921

Ion Ratio Lower Upper

76 100

78 0.0 26.1 39.1#

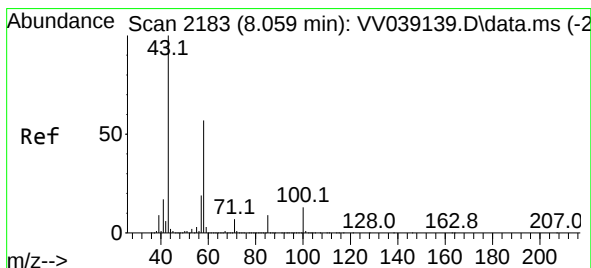
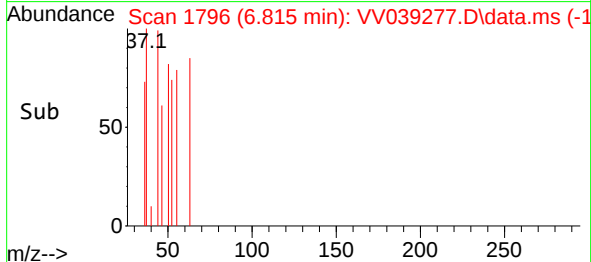
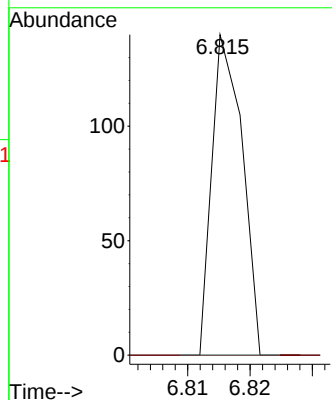
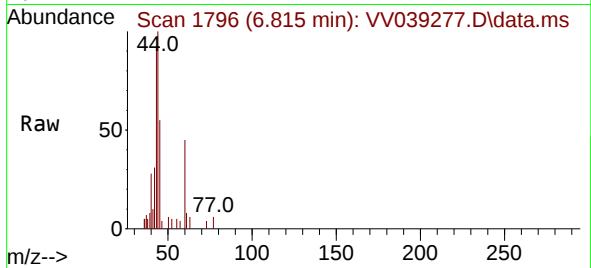




#58
2-Chloroethyl Vinyl ether
Concen: 9.644 ug/l
RT: 6.815 min Scan# 11
Delta R.T. 0.006 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

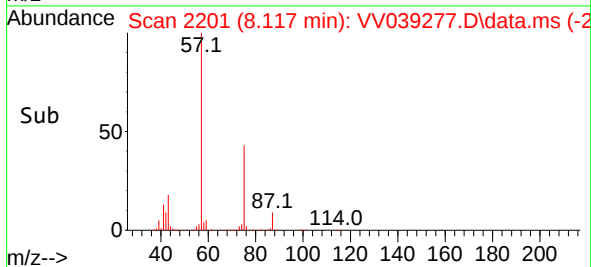
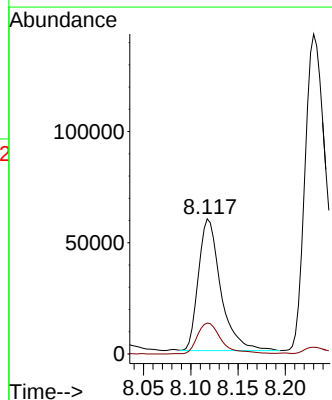
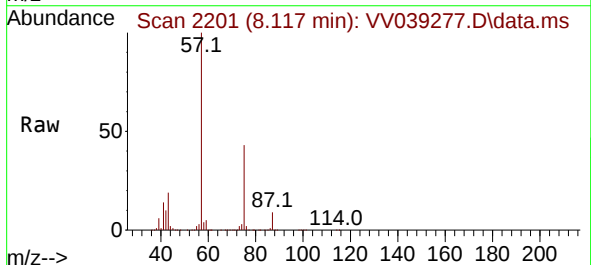
Instrument :
MSVOA_V
ClientSampleId :
VNJ-261

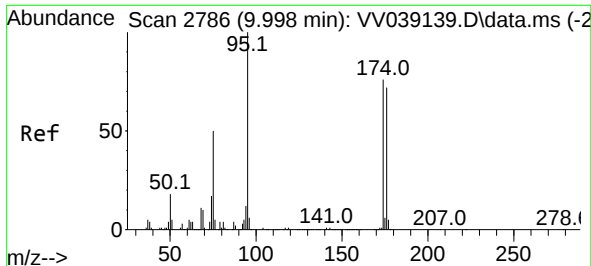
Tgt Ion: 63 Resp: 47
Ion Ratio Lower Upper
63 100
106 0.0 22.1 33.1#



#59
2-Hexanone
Concen: 31.663 ug/l
RT: 8.117 min Scan# 2201
Delta R.T. 0.058 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion: 43 Resp: 97369
Ion Ratio Lower Upper
43 100
58 25.5 28.3 85.0#

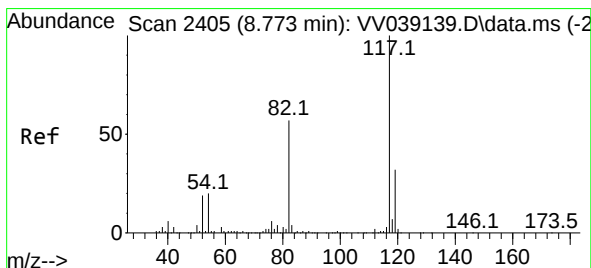
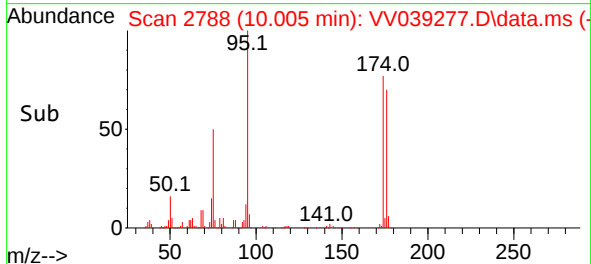
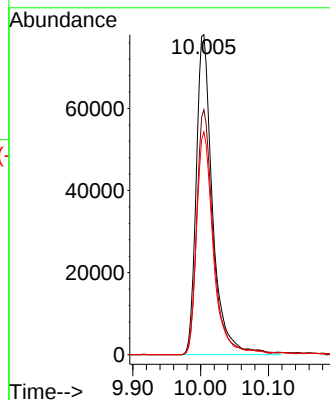
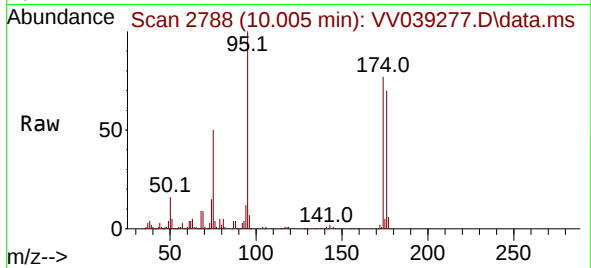




#62
4-Bromofluorobenzene
Concen: 43.714 ug/l
RT: 10.005 min Scan# 21
Delta R.T. 0.007 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

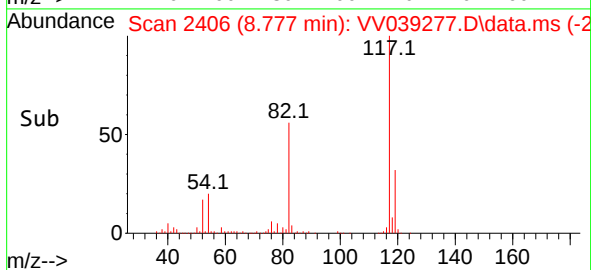
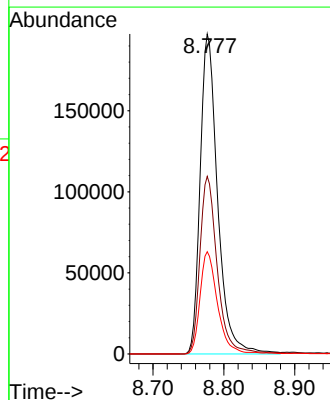
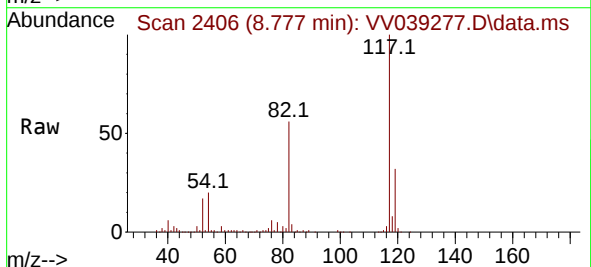
Instrument :
MSVOA_V
ClientSampleId :
VNJ-261

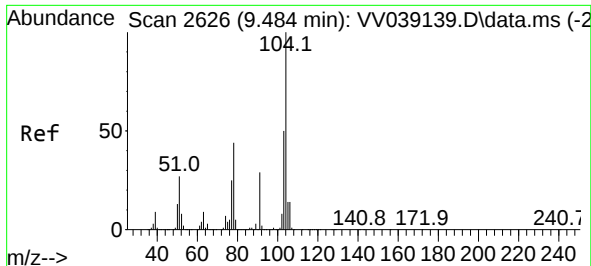
Tgt Ion: 95 Resp: 130830
Ion Ratio Lower Upper
95 100
174 77.1 0.0 150.4
176 70.7 0.0 144.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.777 min Scan# 2406
Delta R.T. 0.004 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion: 117 Resp: 338419
Ion Ratio Lower Upper
117 100
82 55.5 45.4 68.2
119 31.9 25.6 38.4

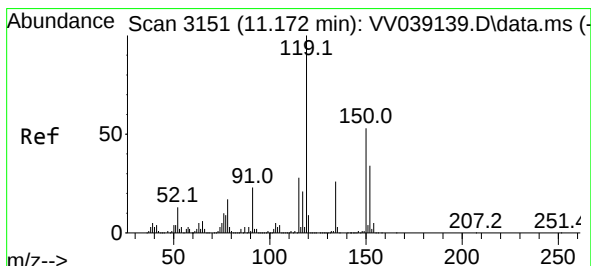
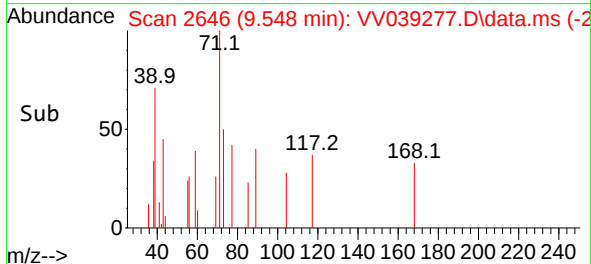
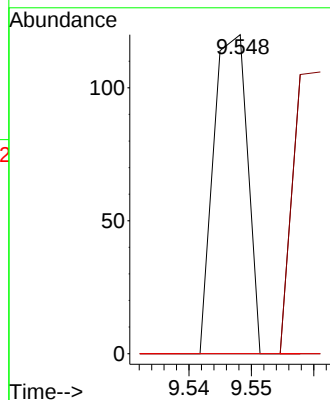
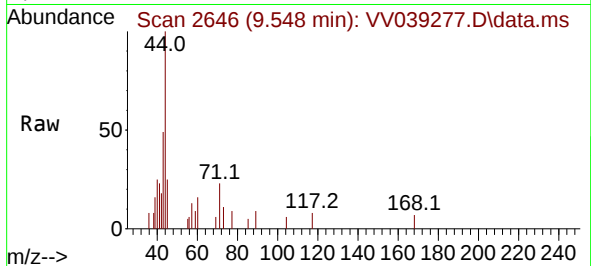




#70
Styrene
Concen: 1.566 ug/l
RT: 9.548 min Scan# 20
Delta R.T. 0.064 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

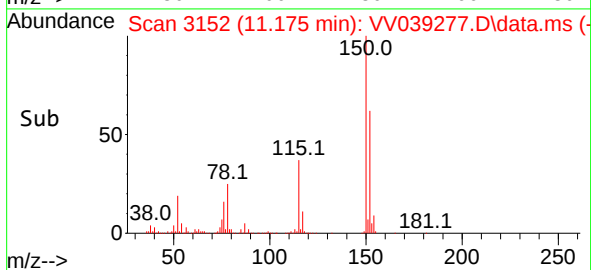
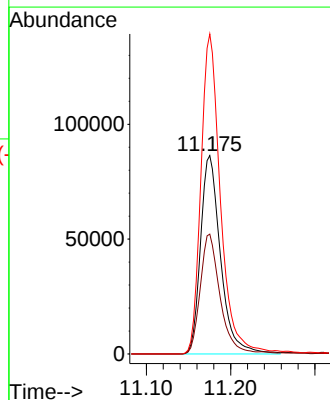
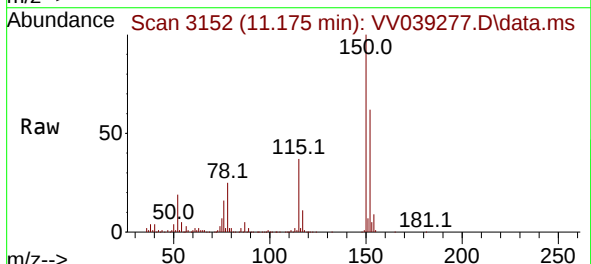
Instrument :
MSVOA_V
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VNJ-261

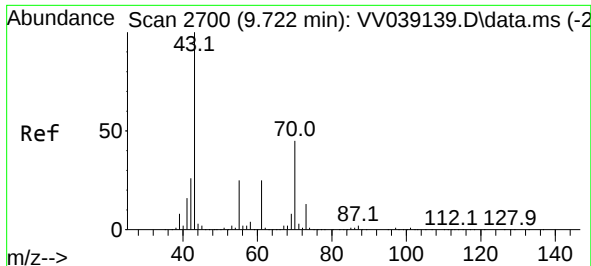
Tgt Ion:104 Resp: 45
Ion Ratio Lower Upper
104 100
78 91.1 39.8 59.6#
103 0.0 43.4 65.2#



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.175 min Scan# 3152
Delta R.T. 0.003 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion:152 Resp: 142971
Ion Ratio Lower Upper
152 100
115 59.4 44.8 134.4
150 157.8 0.0 353.8

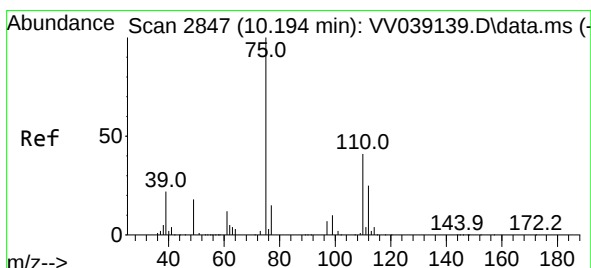
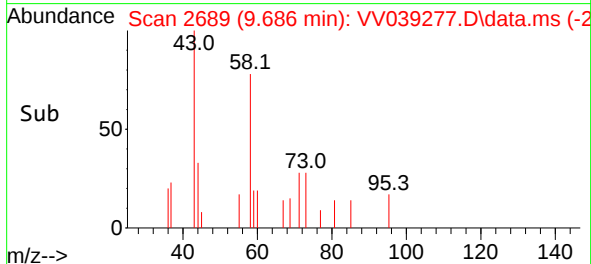
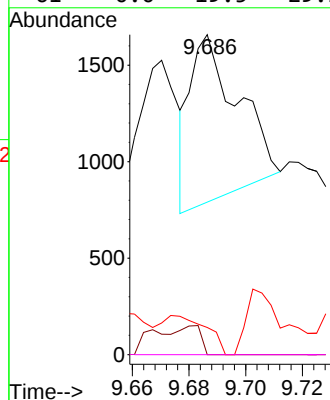
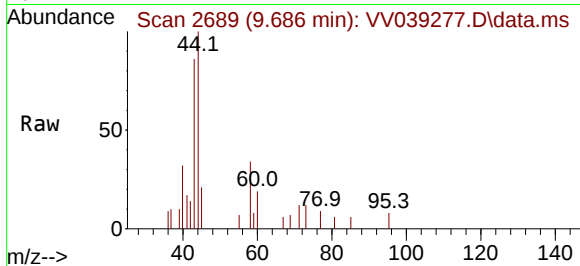




#74
N-amy1 acetate
Concen: 0.243 ug/l
RT: 9.686 min Scan# 21
Delta R.T. -0.035 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

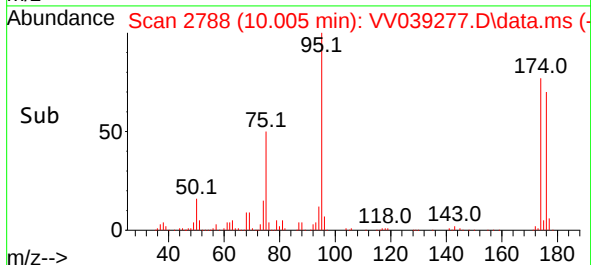
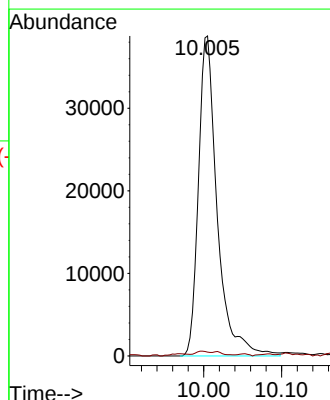
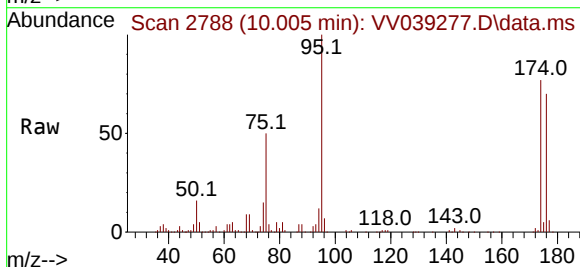
Instrument :
MSVOA_V
ClientSampleId :
VNJ-261

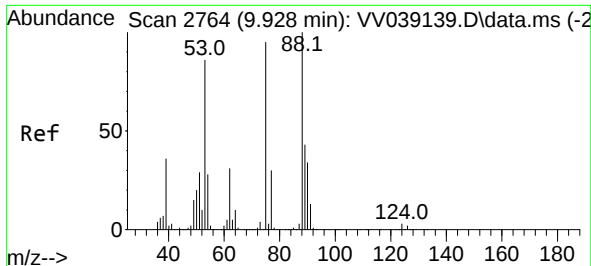
Tgt Ion: 43 Resp: 1006
Ion Ratio Lower Upper
43 100
70 8.2 35.4 53.0#
55 30.6 20.6 30.8
61 0.0 19.5 29.3#



#76
1,2,3-Trichloropropane
Concen: 19.902 ug/l
RT: 10.005 min Scan# 2788
Delta R.T. -0.190 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion: 75 Resp: 64786
Ion Ratio Lower Upper
75 100
77 0.6 11.3 33.8#

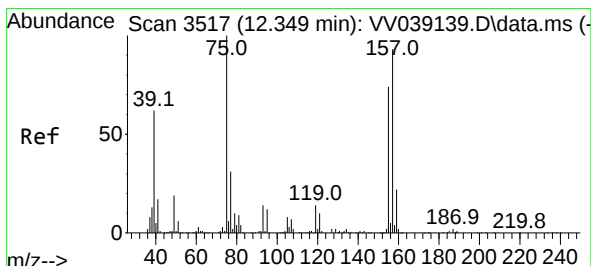
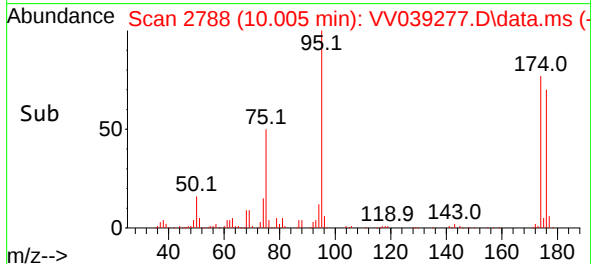
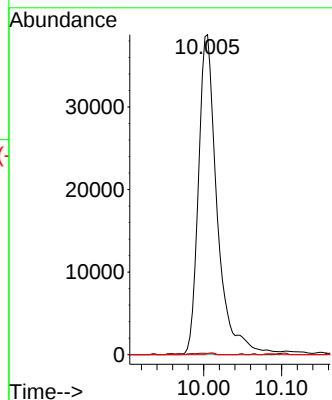
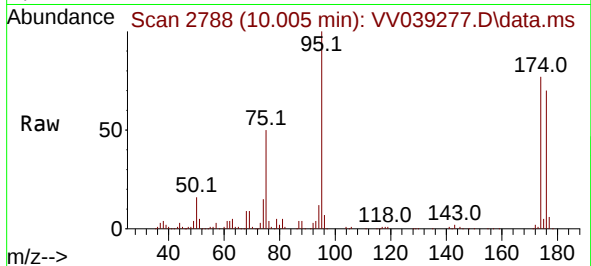




#81
trans-1,4-Dichloro-2-butene
Concen: 47.779 ug/l
RT: 10.005 min Scan# 21
Delta R.T. 0.077 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

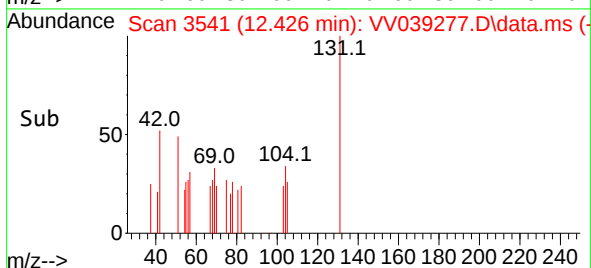
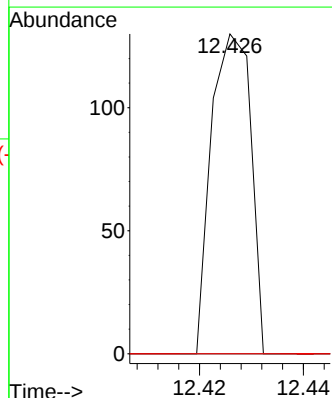
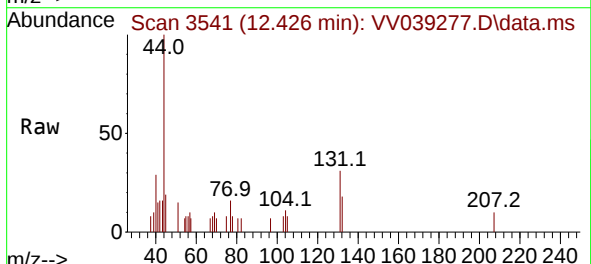
Instrument :
MSVOA_V
ClientSampleId :
VNJ-261

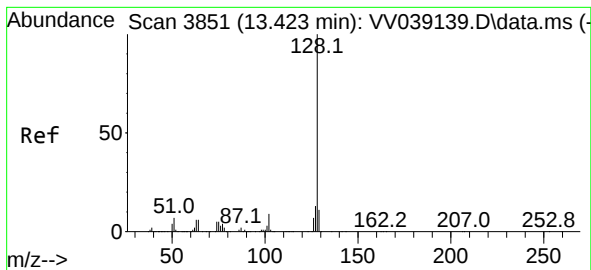
Tgt Ion: 75 Resp: 64786
Ion Ratio Lower Upper
75 100
53 0.4 72.5 108.7#
89 0.1 37.2 55.8#



#92
1,2-Dibromo-3-Chloropropane
Concen: Below Cal
RT: 12.426 min Scan# 3541
Delta R.T. 0.077 min
Lab File: VV039277.D
Acq: 06 Oct 2025 16:33

Tgt Ion: 75 Resp: 68
Ion Ratio Lower Upper
75 100
155 0.0 38.6 115.8#
157 0.0 49.5 148.3#





#95

Naphthalene

Concen: 57.931 ug/l

RT: 13.423 min Scan# 3851

Delta R.T. -0.000 min

Lab File: VV039277.D

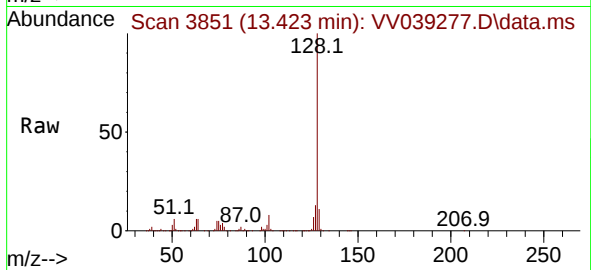
Acq: 06 Oct 2025 16:33

Instrument :

MSVOA_V

ClientSampleId :

VNJ-261



Tgt Ion:128 Resp: 546019

Ion Ratio Lower Upper

128 100

127 13.6 10.3 15.5

129 10.7 8.6 13.0

