

Data Path : Z:\voasrv\HPCHEM1\MSVOA_V\DATA\VV111325\
 Data File : VV039376.D
 Acq On : 13 Nov 2025 11:56
 Operator : SY/MD
 Sample : VV1113MBL01
 Misc : 5.00g/10mL/100uL/5.0mL/MSVOA_V/MEOH
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_V
 ClientSampleId :
 VV1113MBL01

Quant Time: Nov 14 05:44:09 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_V\Method\82V111125W.M
 Quant Title : SW846 8260
 QLast Update : Fri Nov 14 05:42:56 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	4.596	168	674687	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	5.529	114	1102337	50.000	ug/l	0.00
63) Chlorobenzene-d5	8.773	117	1030245	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	11.172	152	502666	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	4.937	65	482043	57.914	ug/l	0.00
Spiked Amount	50.000	Range	81 - 118	Recovery	=	115.820%
35) Dibromofluoromethane	4.500	113	405360	47.944	ug/l	0.00
Spiked Amount	50.000	Range	80 - 119	Recovery	=	95.880%
50) Toluene-d8	7.233	98	1336970	47.853	ug/l	0.00
Spiked Amount	50.000	Range	89 - 112	Recovery	=	95.700%
62) 4-Bromofluorobenzene	9.998	95	475353	44.278	ug/l	0.00
Spiked Amount	50.000	Range	85 - 114	Recovery	=	88.560%

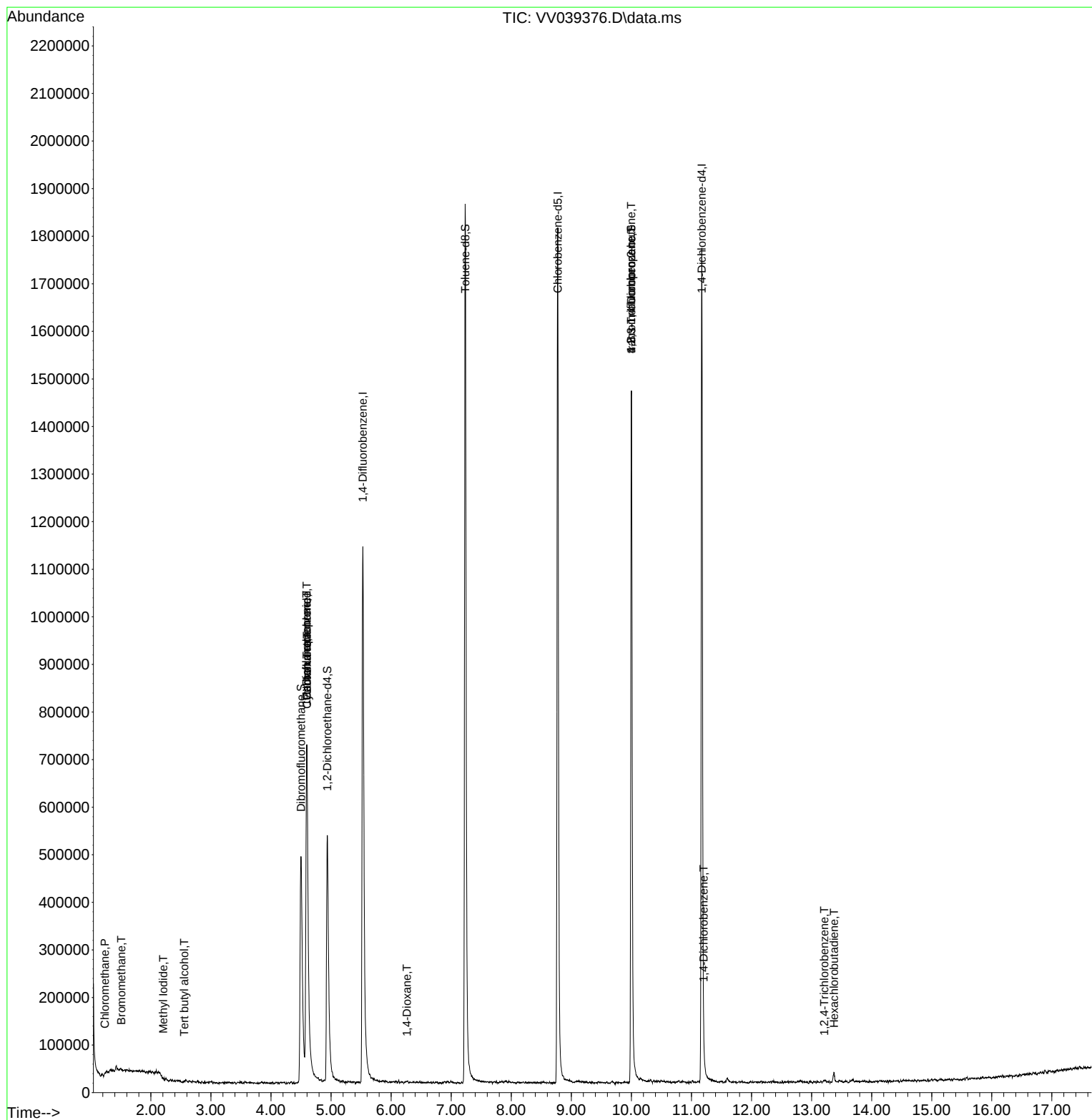
Target Compounds			Qvalue			
3) Chloromethane	1.233	50	837	0.223	ug/l #	64
5) Bromomethane	1.510	94	1053	0.381	ug/l #	77
10) Methyl Iodide	2.207	142	2415	0.632	ug/l #	74
11) Tert butyl alcohol	2.555	59	213	0.239	ug/l #	1
13) Acrolein	2.024	56	216	Below Cal	#	61
16) Acetone	2.124	43	2182	Below Cal		89
17) Carbon Disulfide	2.252	76	2116	Below Cal	#	76
20) Methylene Chloride	2.452	84	2014	Below Cal	#	79
31) Cyclohexane	4.600	56	10910	1.508	ug/l #	1
36) 1,1-Dichloropropene	4.593	75	48850	6.708	ug/l #	50
38) Carbon Tetrachloride	4.596	117	63530	5.873	ug/l #	17
49) 1,4-Dioxane	6.265	88	22	0.206	ug/l #	1
76) 1,2,3-Trichloropropane	9.998	75	228753	29.319	ug/l #	55
81) trans-1,4-Dichloro-2-b...	9.998	75	228753	78.594	ug/l #	10
88) 1,4-Dichlorobenzene	11.204	146	3216	0.203	ug/l #	76
93) 1,2,4-Trichlorobenzene	13.213	180	2207	0.245	ug/l	86
94) Hexachlorobutadiene	13.374	225	3694	0.768	ug/l	91

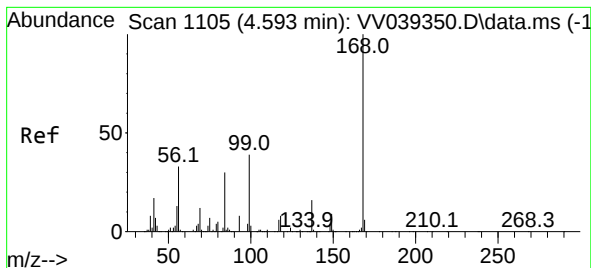
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 4.596 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039376.D

Acq: 13 Nov 2025 11:56

Instrument :

MSVOA_V

ClientSampleId :

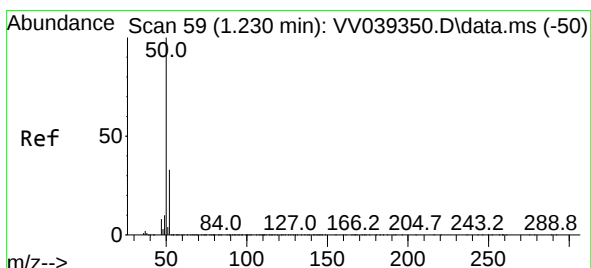
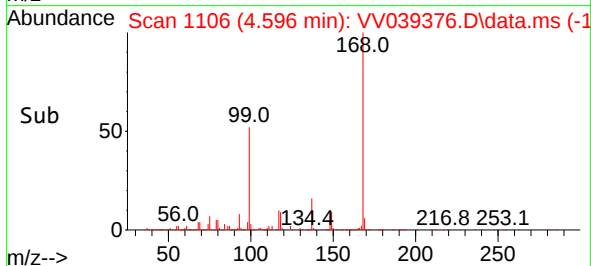
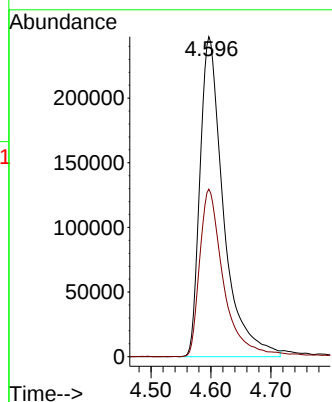
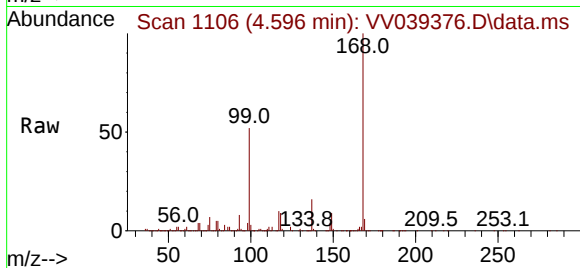
VV1113MBL01

Tgt Ion:168 Resp: 674687

Ion Ratio Lower Upper

168 100

99 52.3 41.2 61.8



#3

Chloromethane

Concen: 0.223 ug/l

RT: 1.233 min Scan# 60

Delta R.T. 0.003 min

Lab File: VV039376.D

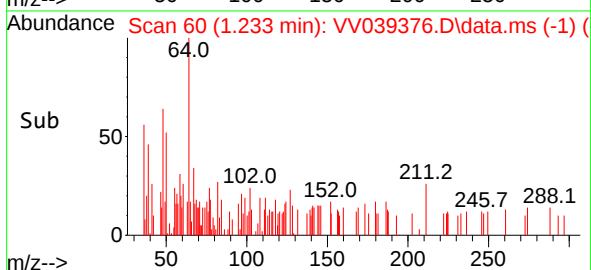
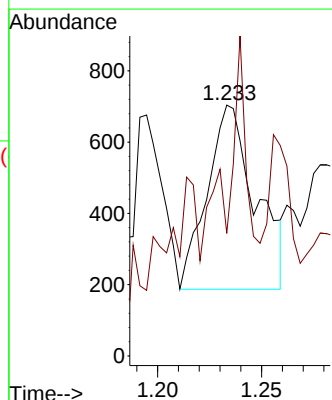
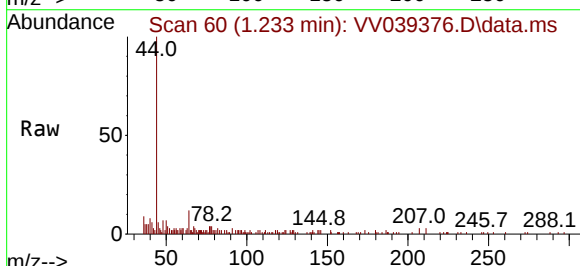
Acq: 13 Nov 2025 11:56

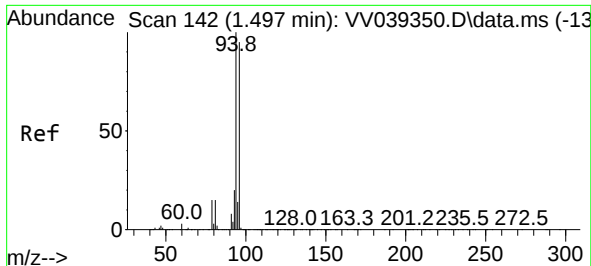
Tgt Ion: 50 Resp: 837

Ion Ratio Lower Upper

50 100

52 12.6 26.6 39.8#

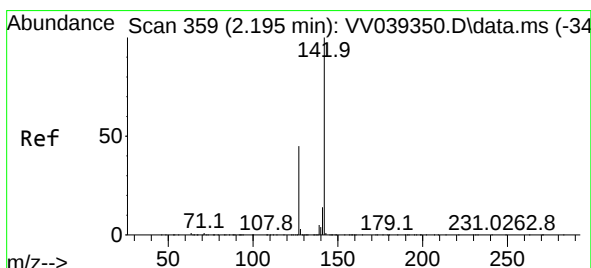
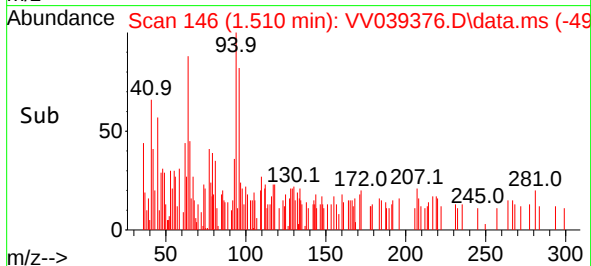
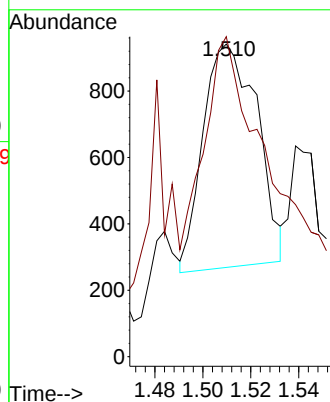
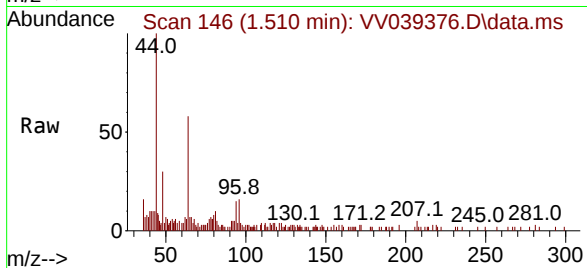




#5
Bromomethane
Concen: 0.381 ug/l
RT: 1.510 min Scan# 14
Delta R.T. 0.013 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

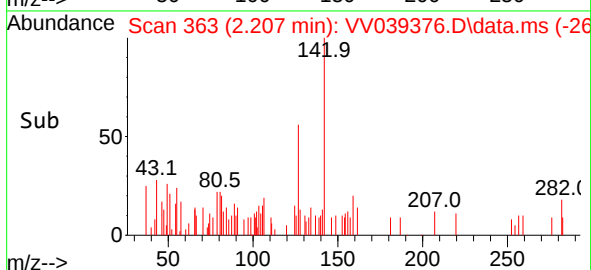
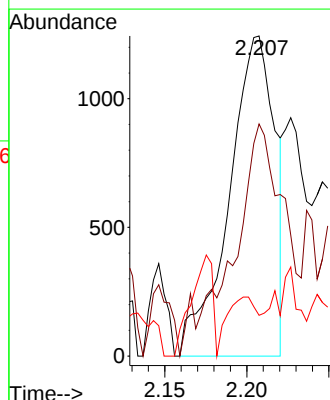
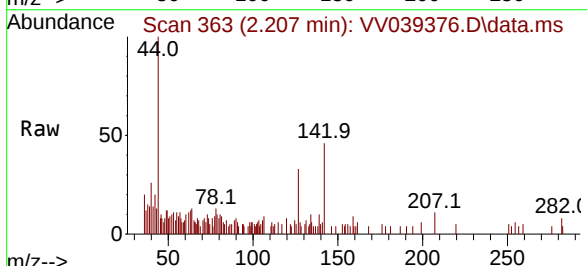
Instrument :
MSVOA_V
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VV1113MBL01

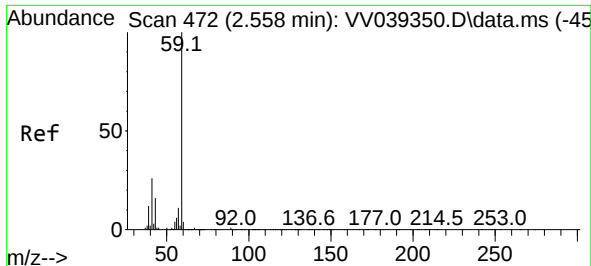
Tgt Ion: 94 Resp: 1053
Ion Ratio Lower Upper
94 100
96 72.2 75.6 113.4#



#10
Methyl Iodide
Concen: 0.632 ug/l
RT: 2.207 min Scan# 363
Delta R.T. 0.012 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

Tgt Ion: 142 Resp: 2415
Ion Ratio Lower Upper
142 100
127 60.8 35.1 52.7#
141 4.3 11.9 17.9#





#11

Tert butyl alcohol

Concen: 0.239 ug/l

RT: 2.555 min Scan# 41

Delta R.T. -0.003 min

Lab File: VV039376.D

Acq: 13 Nov 2025 11:56

Instrument :

MSVOA_V

ClientSampleId :

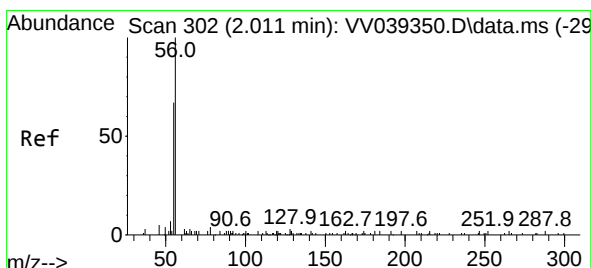
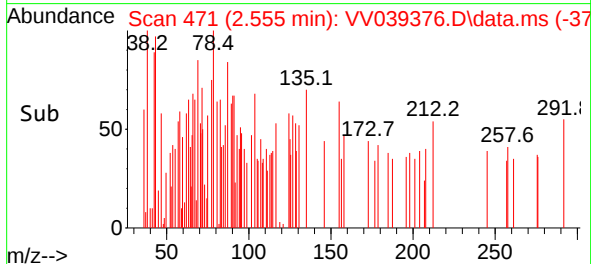
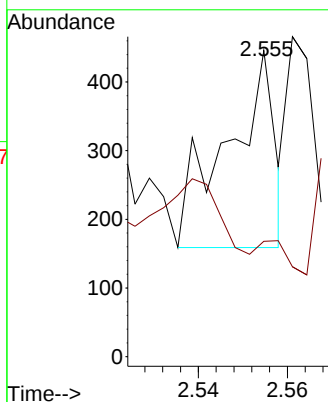
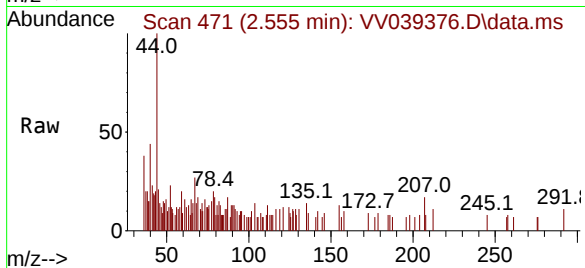
VV1113MBL01

Tgt Ion: 59 Resp: 213

Ion Ratio Lower Upper

59 100

57 83.6 8.0 12.0#



#13

Acrolein

Concen: Below Cal

RT: 2.024 min Scan# 306

Delta R.T. 0.013 min

Lab File: VV039376.D

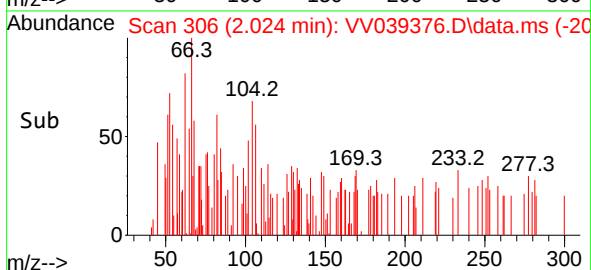
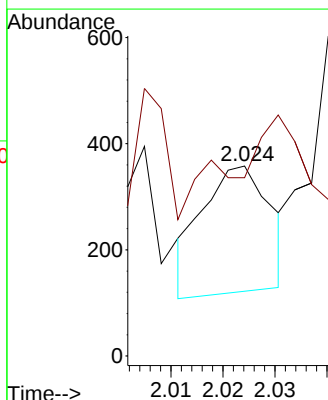
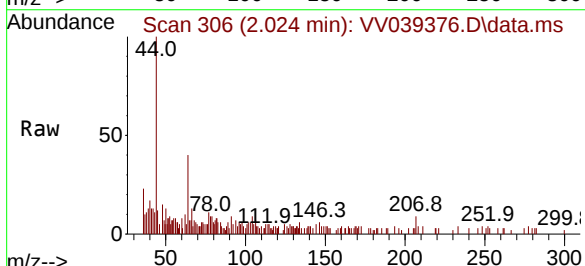
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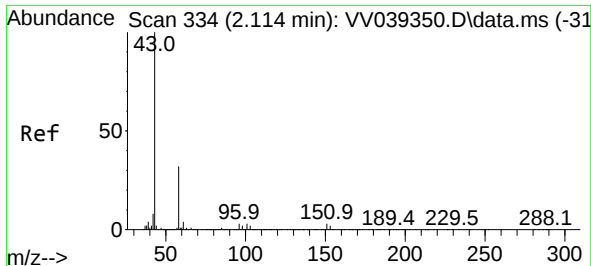
Tgt Ion: 56 Resp: 216

Ion Ratio Lower Upper

56 100

55 37.0 55.2 82.8#

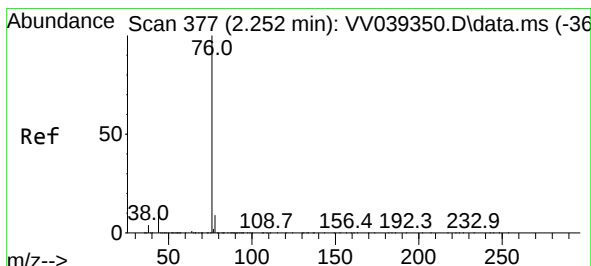
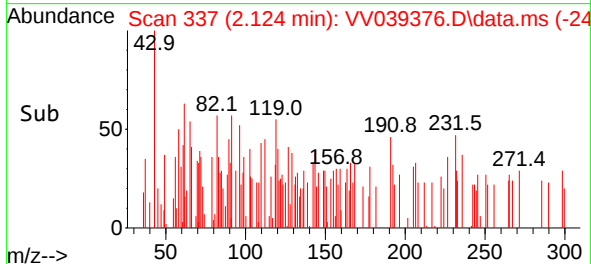
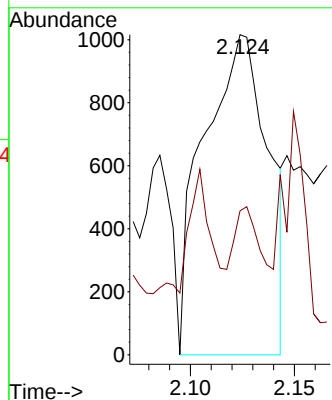
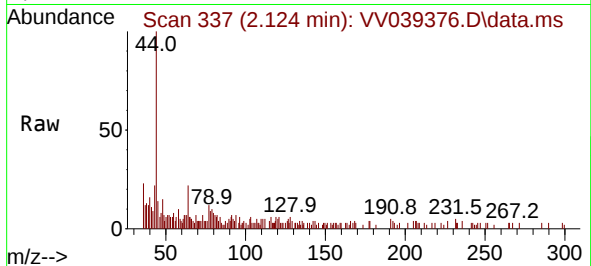




#16
Acetone
Concen: Below Cal
RT: 2.124 min Scan# 311
Delta R.T. 0.010 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

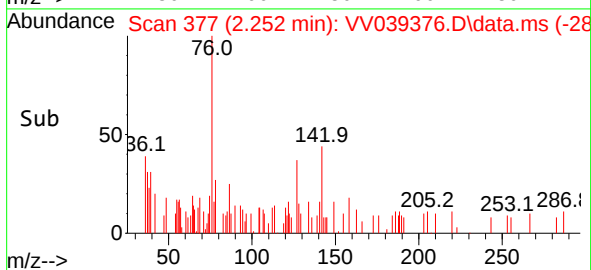
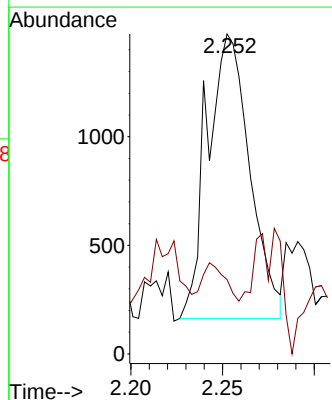
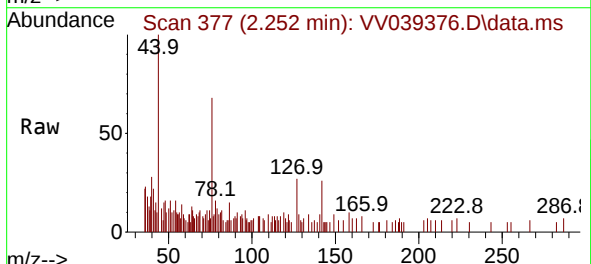
Instrument :
MSVOA_V
ClientSampleId :
VV1113MBL01

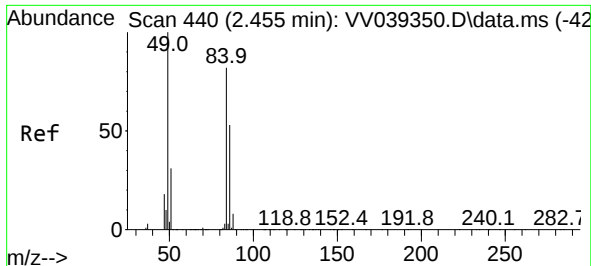
Tgt Ion: 43 Resp: 2182
Ion Ratio Lower Upper
43 100
58 25.7 25.5 38.3



#17
Carbon Disulfide
Concen: Below Cal
RT: 2.252 min Scan# 377
Delta R.T. 0.000 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

Tgt Ion: 76 Resp: 2116
Ion Ratio Lower Upper
76 100
78 0.5 7.4 11.0#

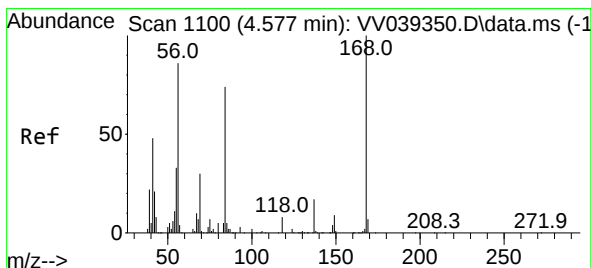
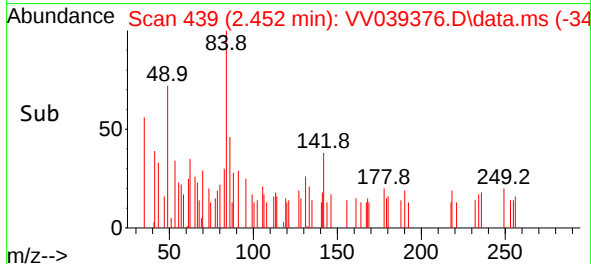
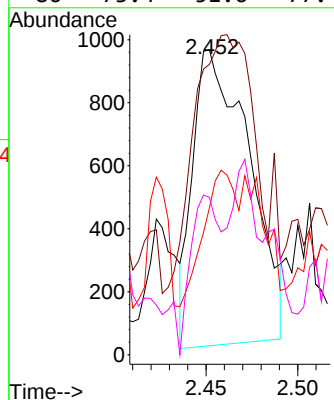
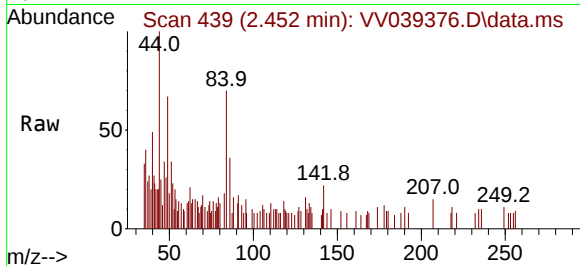




#20
Methylene Chloride
Concen: Below Cal
RT: 2.452 min Scan# 41
Delta R.T. -0.003 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

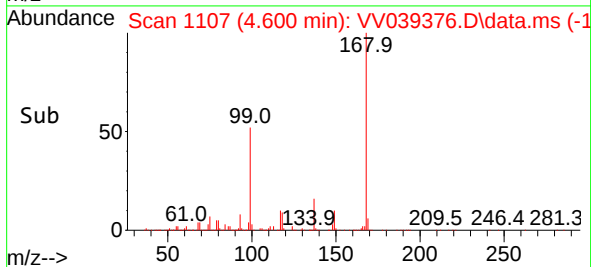
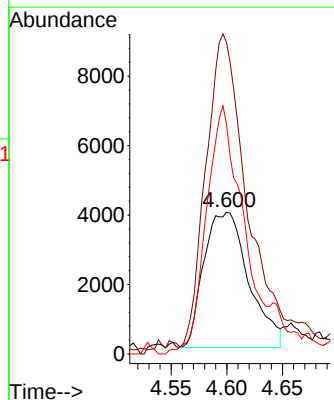
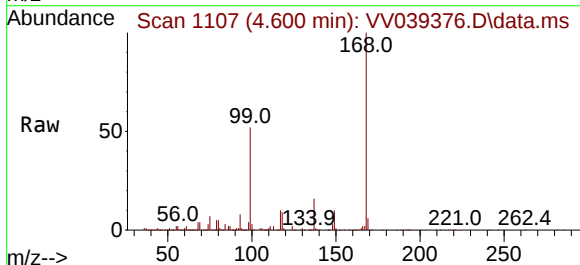
Instrument :
MSVOA_V
ClientSampleId :
VV1113MBL01

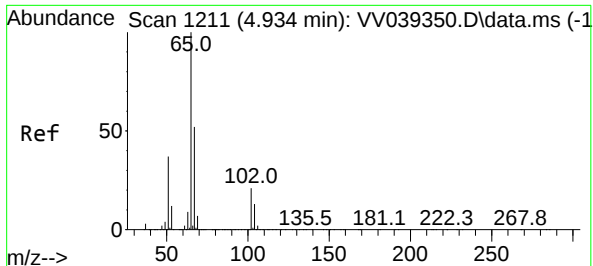
Tgt Ion:	84	Resp:	2014
Ion	Ratio	Lower	Upper
84	100		
49	91.2	97.8	146.8#
51	46.2	30.2	45.4#
86	73.4	51.6	77.4



#31
Cyclohexane
Concen: 1.508 ug/l
RT: 4.600 min Scan# 1107
Delta R.T. 0.023 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

Tgt Ion:	56	Resp:	10910
Ion	Ratio	Lower	Upper
56	100		
69	222.9	27.7	41.5#
84	165.2	69.4	104.2#





#33

1,2-Dichloroethane-d4

Concen: 57.914 ug/l

RT: 4.937 min Scan# 11

Delta R.T. 0.003 min

Lab File: VV039376.D

Acq: 13 Nov 2025 11:56

Instrument :

MSVOA_V

ClientSampleId :

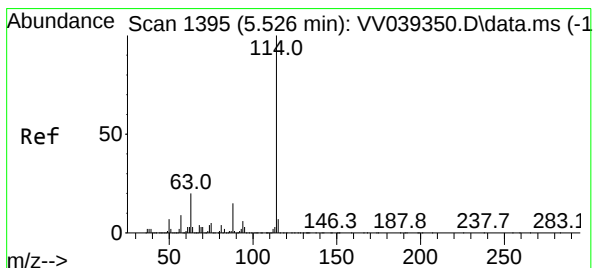
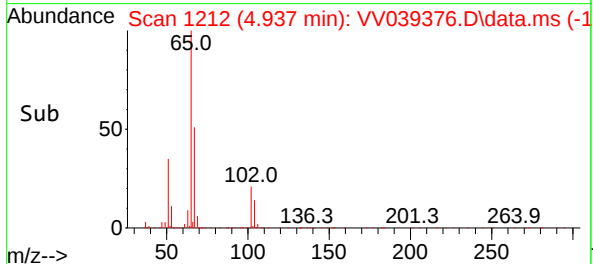
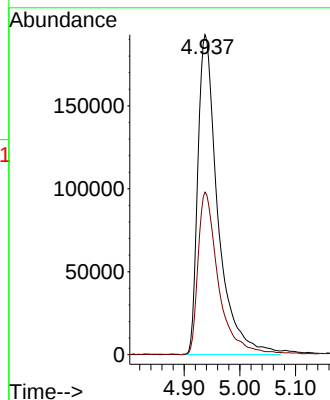
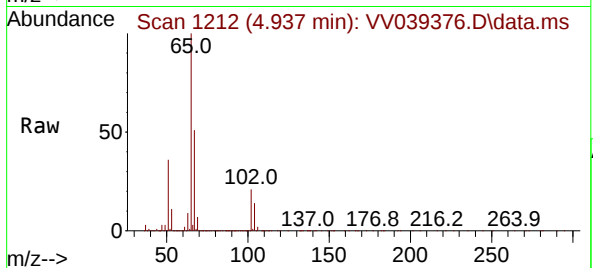
VV1113MBL01

Tgt Ion: 65 Resp: 482043

Ion Ratio Lower Upper

65 100

67 51.4 0.0 105.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 5.529 min Scan# 1396

Delta R.T. 0.003 min

Lab File: VV039376.D

Acq: 13 Nov 2025 11:56

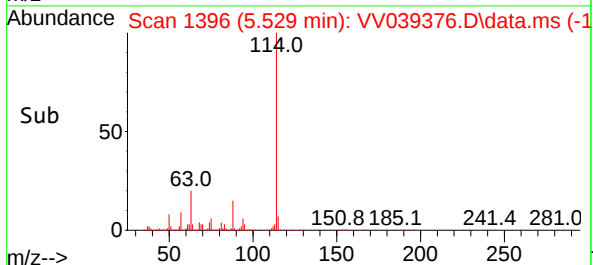
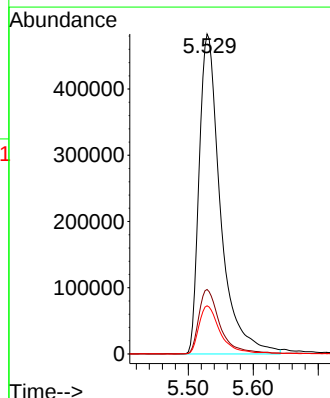
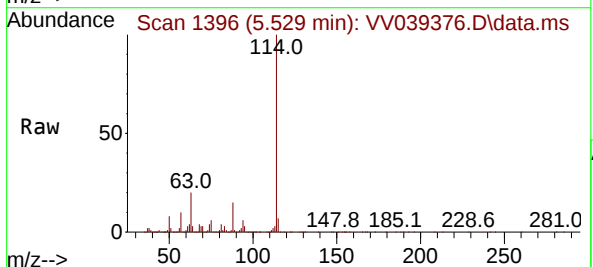
Tgt Ion:114 Resp: 1102337

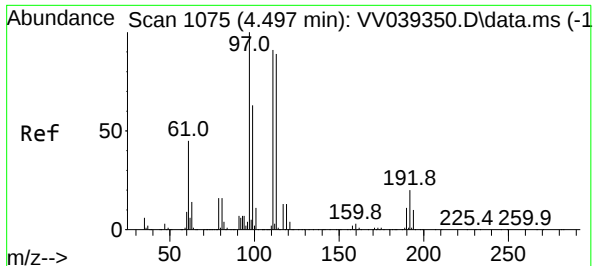
Ion Ratio Lower Upper

114 100

63 20.1 0.0 39.6

88 15.0 0.0 30.2

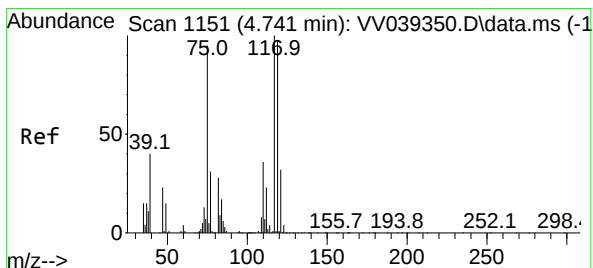
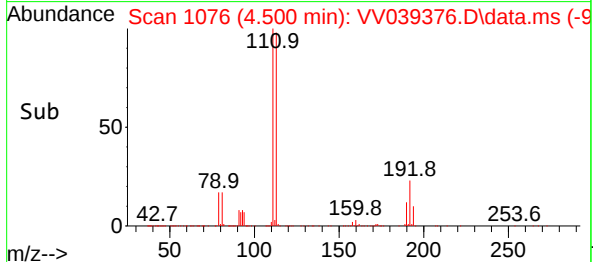
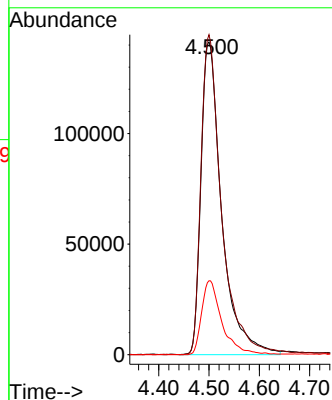
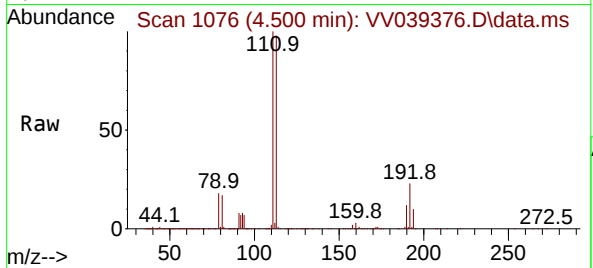




#35
Dibromofluoromethane
Concen: 47.944 ug/l
RT: 4.500 min Scan# 1105
Delta R.T. 0.003 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

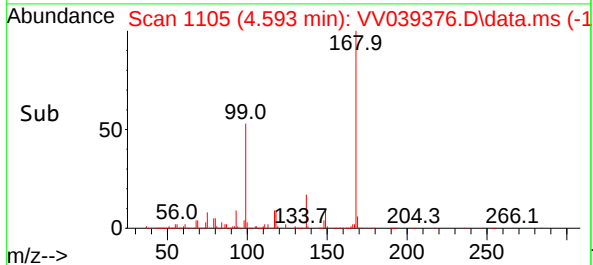
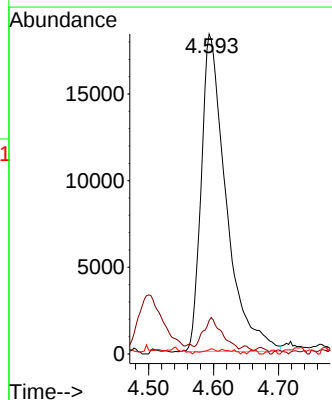
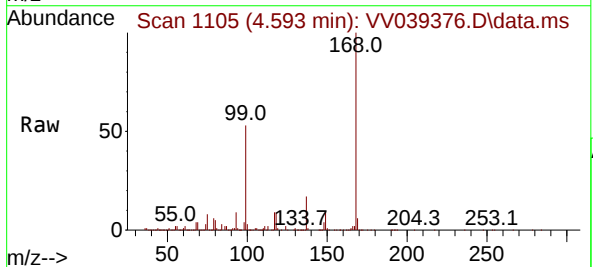
Instrument :
MSVOA_V
ClientSampleId :
VV1113MBL01

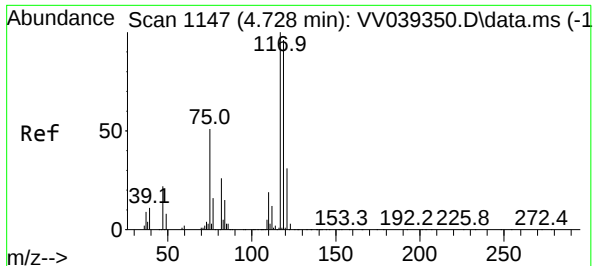
Tgt Ion:113 Resp: 405360
Ion Ratio Lower Upper
113 100
111 101.8 82.6 124.0
192 22.9 17.8 26.8



#36
1,1-Dichloropropene
Concen: 6.708 ug/l
RT: 4.593 min Scan# 1105
Delta R.T. -0.148 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

Tgt Ion: 75 Resp: 48850
Ion Ratio Lower Upper
75 100
110 8.8 18.1 54.4#
77 0.3 24.0 36.0#

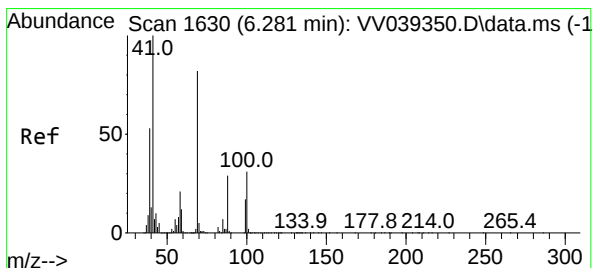
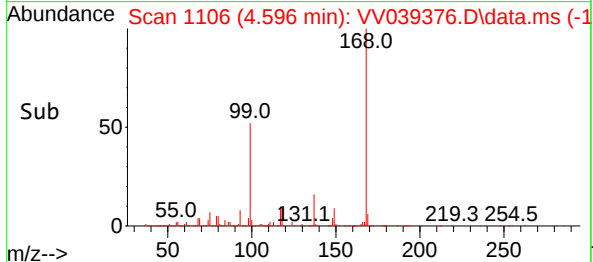
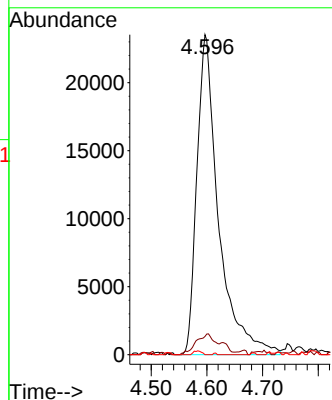
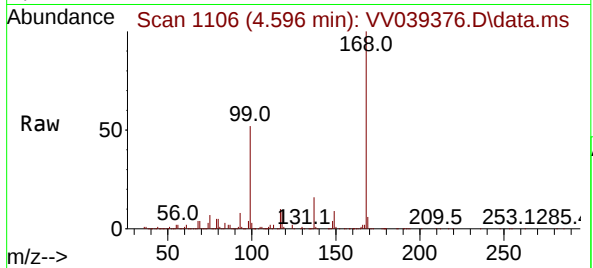




#38
Carbon Tetrachloride
Concen: 5.873 ug/l
RT: 4.596 min Scan# 1147
Delta R.T. -0.132 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

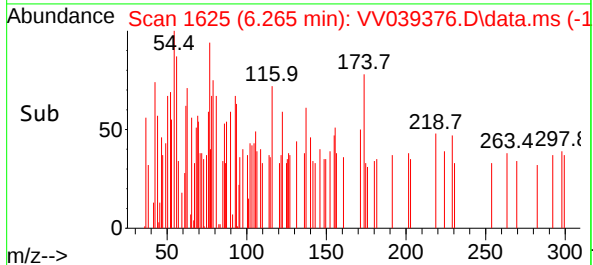
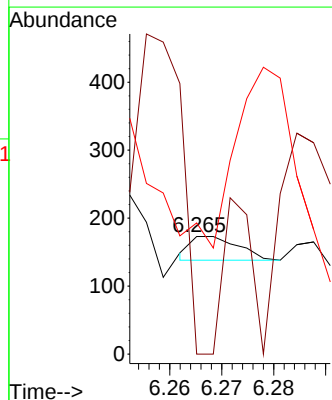
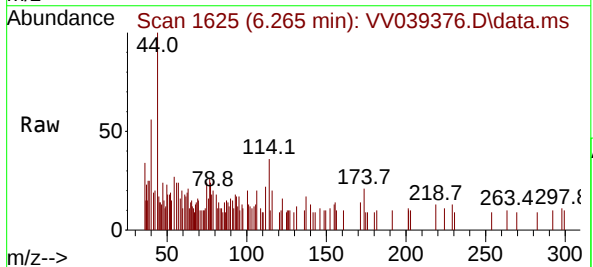
Instrument :
MSVOA_V
ClientSampleId :
VV1113MBL01

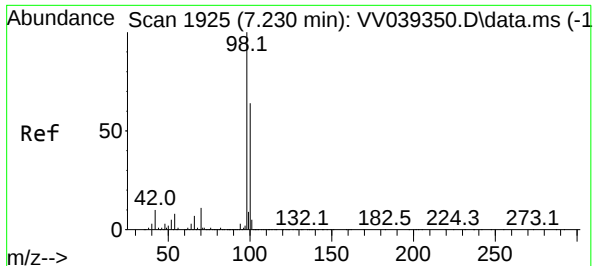
Tgt Ion:117 Resp: 63530
Ion Ratio Lower Upper
117 100
119 5.7 76.1 114.1#
121 0.0 25.0 37.4#



#49
1,4-Dioxane
Concen: 0.206 ug/l
RT: 6.265 min Scan# 1625
Delta R.T. -0.016 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

Tgt Ion: 88 Resp: 22
Ion Ratio Lower Upper
88 100
43 381.8 26.6 40.0#
58 1145.5 55.4 83.0#

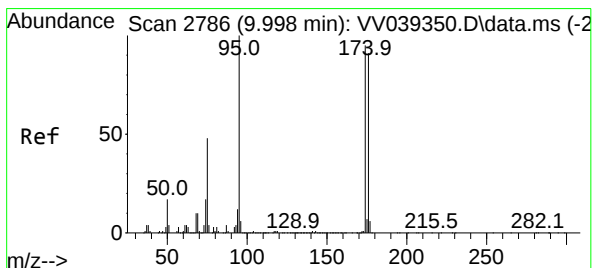
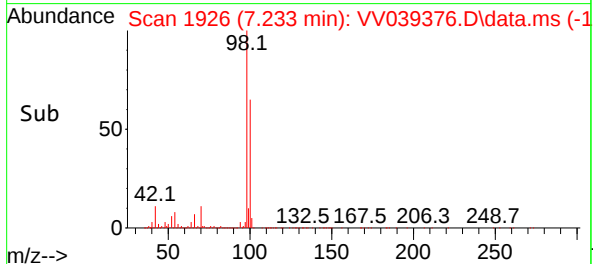
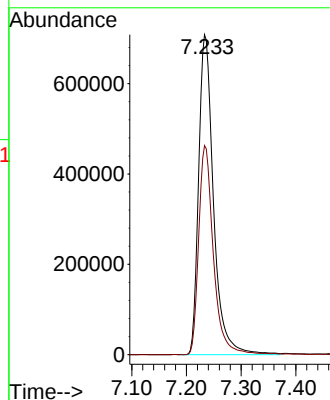
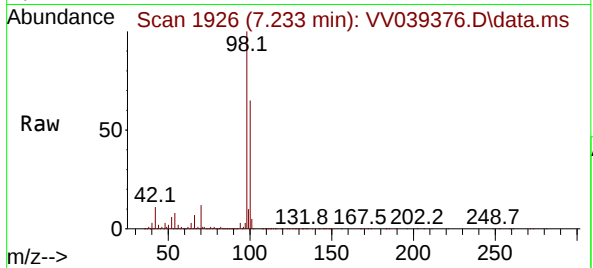




#50
Toluene-d8
Concen: 47.853 ug/l
RT: 7.233 min Scan# 1925
Delta R.T. 0.003 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

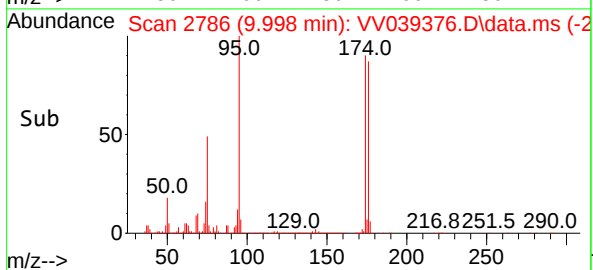
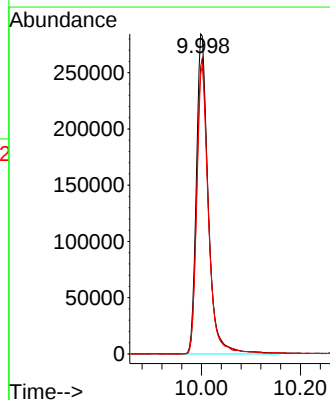
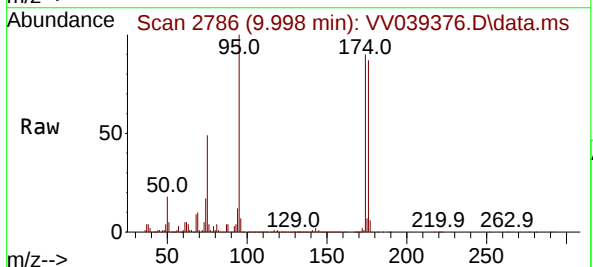
Instrument :
MSVOA_V
ClientSampleId :
VV1113MBL01

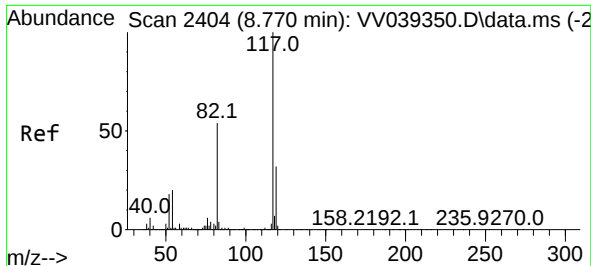
Tgt Ion: 98 Resp: 1336970
Ion Ratio Lower Upper
98 100
100 64.7 52.8 79.2



#62
4-Bromofluorobenzene
Concen: 44.278 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. -0.000 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

Tgt Ion: 95 Resp: 475353
Ion Ratio Lower Upper
95 100
174 93.0 0.0 187.6
176 88.7 0.0 180.2

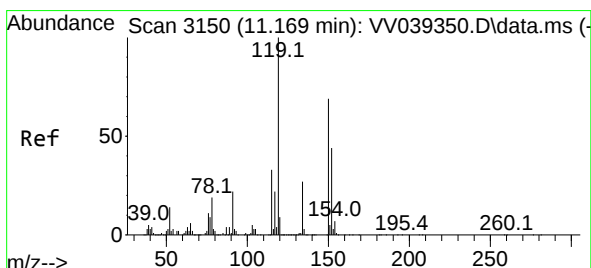
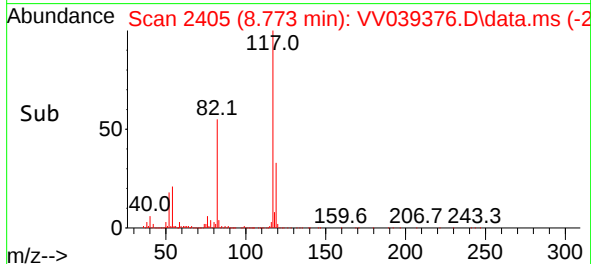
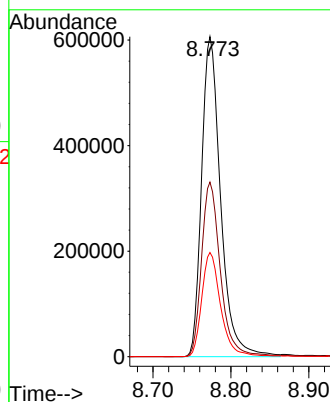
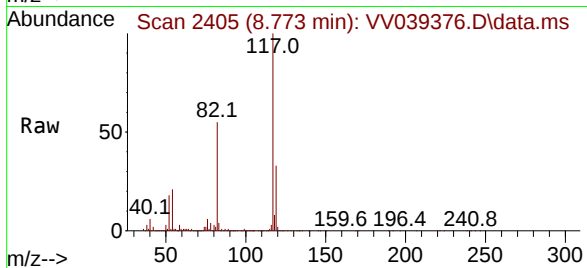




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 8.773 min Scan# 2405
Delta R.T. 0.003 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

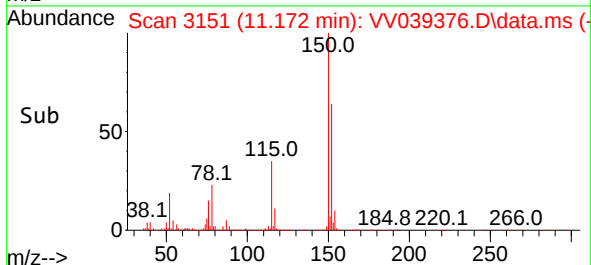
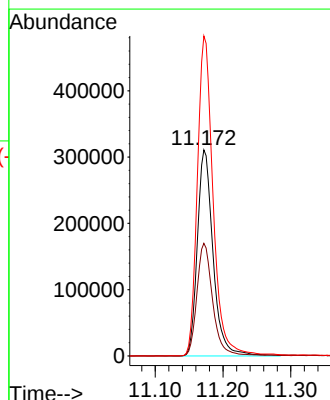
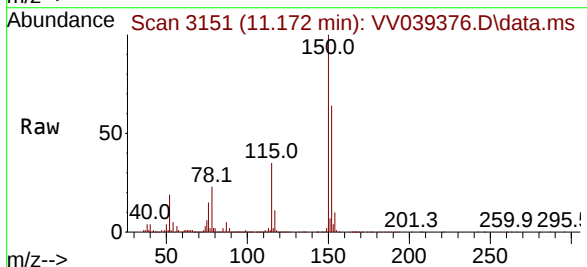
Instrument :
MSVOA_V
ClientSampleId :
VV1113MBL01

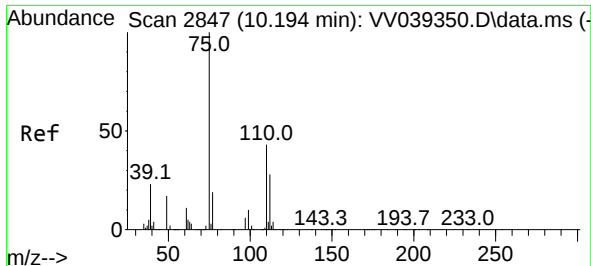
Tgt Ion:117 Resp: 1030245
Ion Ratio Lower Upper
117 100
82 54.5 42.9 64.3
119 32.5 25.5 38.3



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 11.172 min Scan# 3151
Delta R.T. 0.003 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

Tgt Ion:152 Resp: 502666
Ion Ratio Lower Upper
152 100
115 54.8 37.3 111.9
150 154.5 0.0 340.4

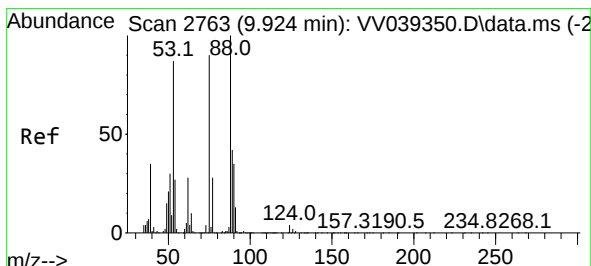
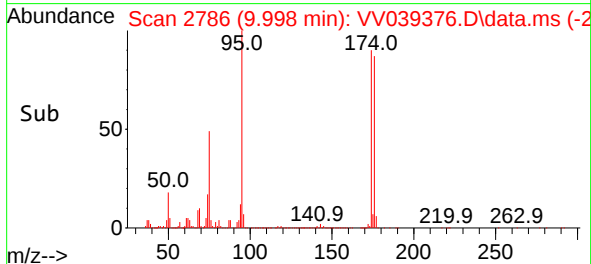
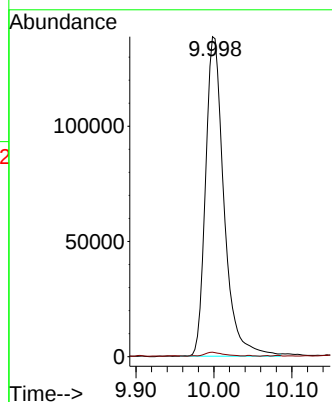
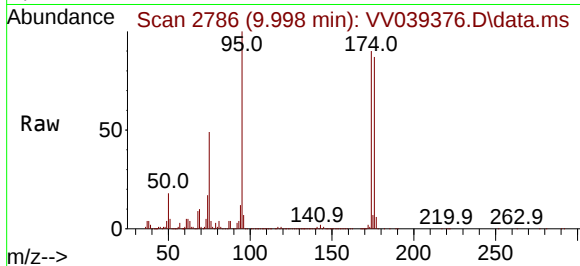




#76
1,2,3-Trichloropropane
Concen: 29.319 ug/l
RT: 9.998 min Scan# 21
Delta R.T. -0.196 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

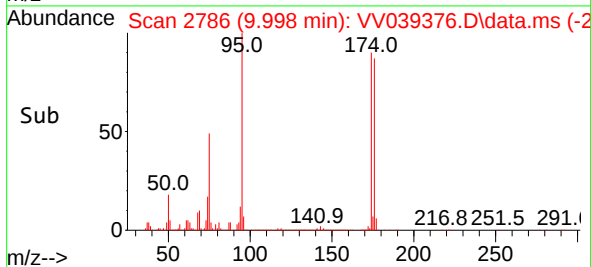
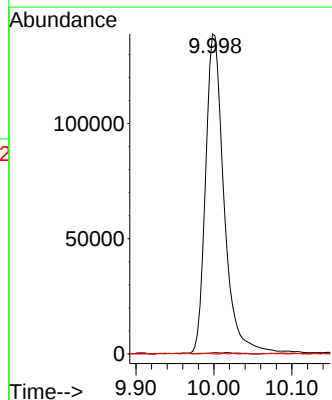
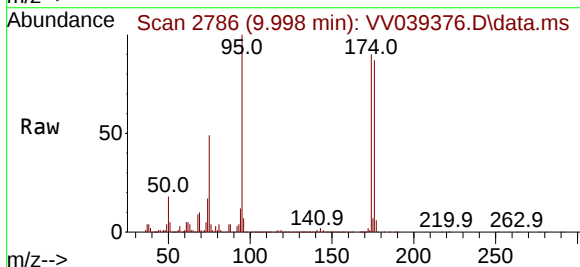
Instrument :
MSVOA_V
ClientSampleId :
VV1113MBL01

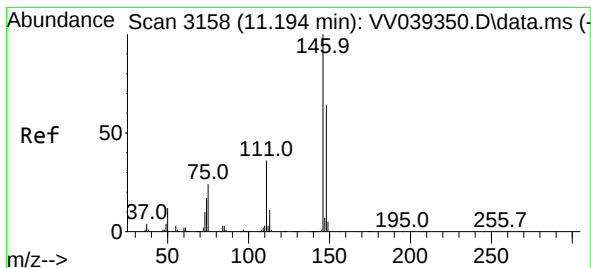
Tgt Ion: 75 Resp: 228753
Ion Ratio Lower Upper
75 100
77 1.3 11.8 35.3#



#81
trans-1,4-Dichloro-2-butene
Concen: 78.594 ug/l
RT: 9.998 min Scan# 2786
Delta R.T. 0.074 min
Lab File: VV039376.D
Acq: 13 Nov 2025 11:56

Tgt Ion: 75 Resp: 228753
Ion Ratio Lower Upper
75 100
53 0.2 79.0 118.6#
89 0.1 40.4 60.6#





#88

1,4-Dichlorobenzene

Concen: 0.203 ug/l

RT: 11.204 min Scan# 3161

Delta R.T. 0.010 min

Lab File: VV039376.D

Acq: 13 Nov 2025 11:56

Instrument :

MSVOA_V

ClientSampleId :

VV1113MBL01

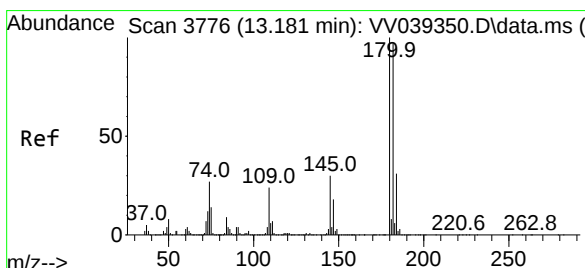
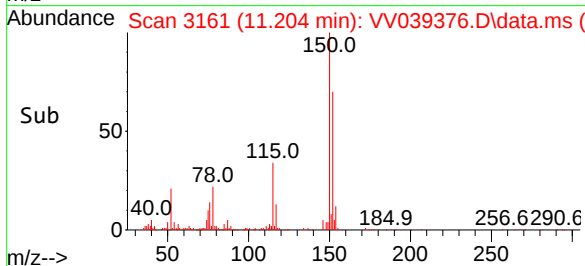
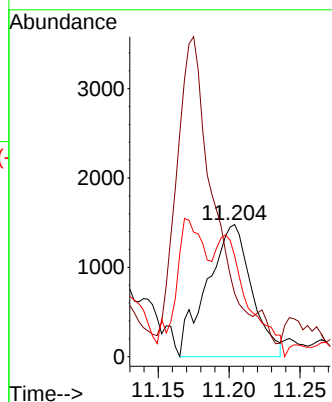
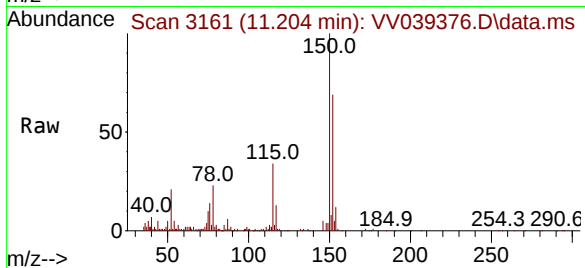
Tgt Ion:146 Resp: 3216

Ion Ratio Lower Upper

146 100

111 0.0 18.6 55.8#

148 65.7 32.0 96.2



#93

1,2,4-Trichlorobenzene

Concen: 0.245 ug/l

RT: 13.213 min Scan# 3786

Delta R.T. 0.032 min

Lab File: VV039376.D

Acq: 13 Nov 2025 11:56

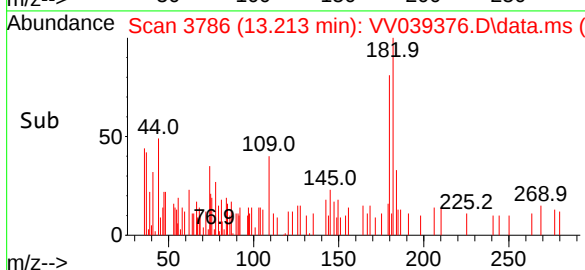
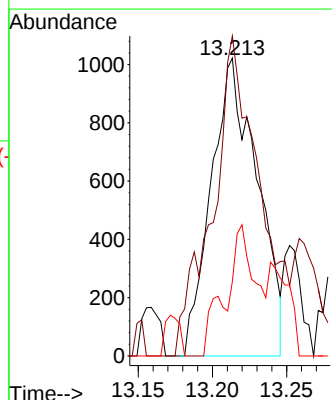
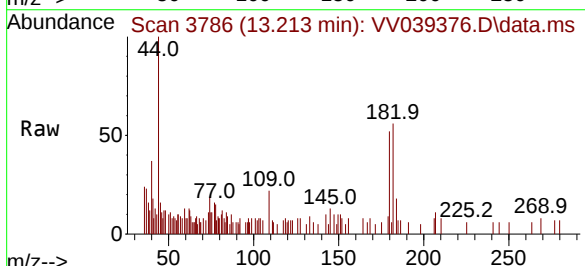
Tgt Ion:180 Resp: 2207

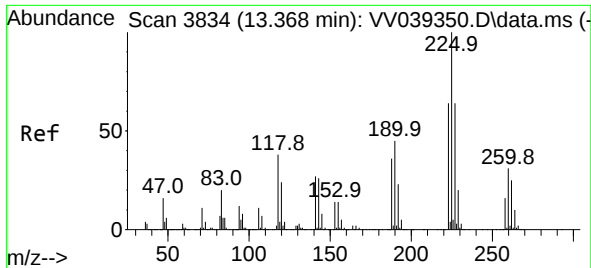
Ion Ratio Lower Upper

180 100

182 110.0 48.5 145.5

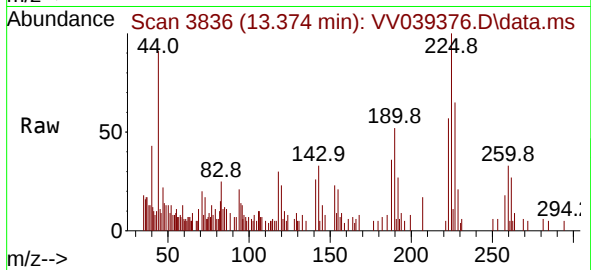
145 21.2 14.6 43.8





#94
 Hexachlorobutadiene
 Concen: 0.768 ug/l
 RT: 13.374 min Scan# 3836
 Delta R.T. 0.006 min
 Lab File: VV039376.D
 Acq: 13 Nov 2025 11:56

Instrument :
 MSVOA_V
 ClientSampleId :
 VV1113MBL01



Tgt Ion:	225	Resp:	3694
Ion	Ratio	Lower	Upper
225	100		
223	70.2	31.1	93.5
227	69.7	31.7	95.1

