

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX061025\
 Data File : VX046625.D
 Acq On : 11 Jun 2025 00:54
 Operator : JC/MD
 Sample : Q2203-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE(JUNE)

Quant Time: Jun 11 06:52:46 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\624X061025W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jun 11 06:20:28 2025
 Response via : Initial Calibration

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

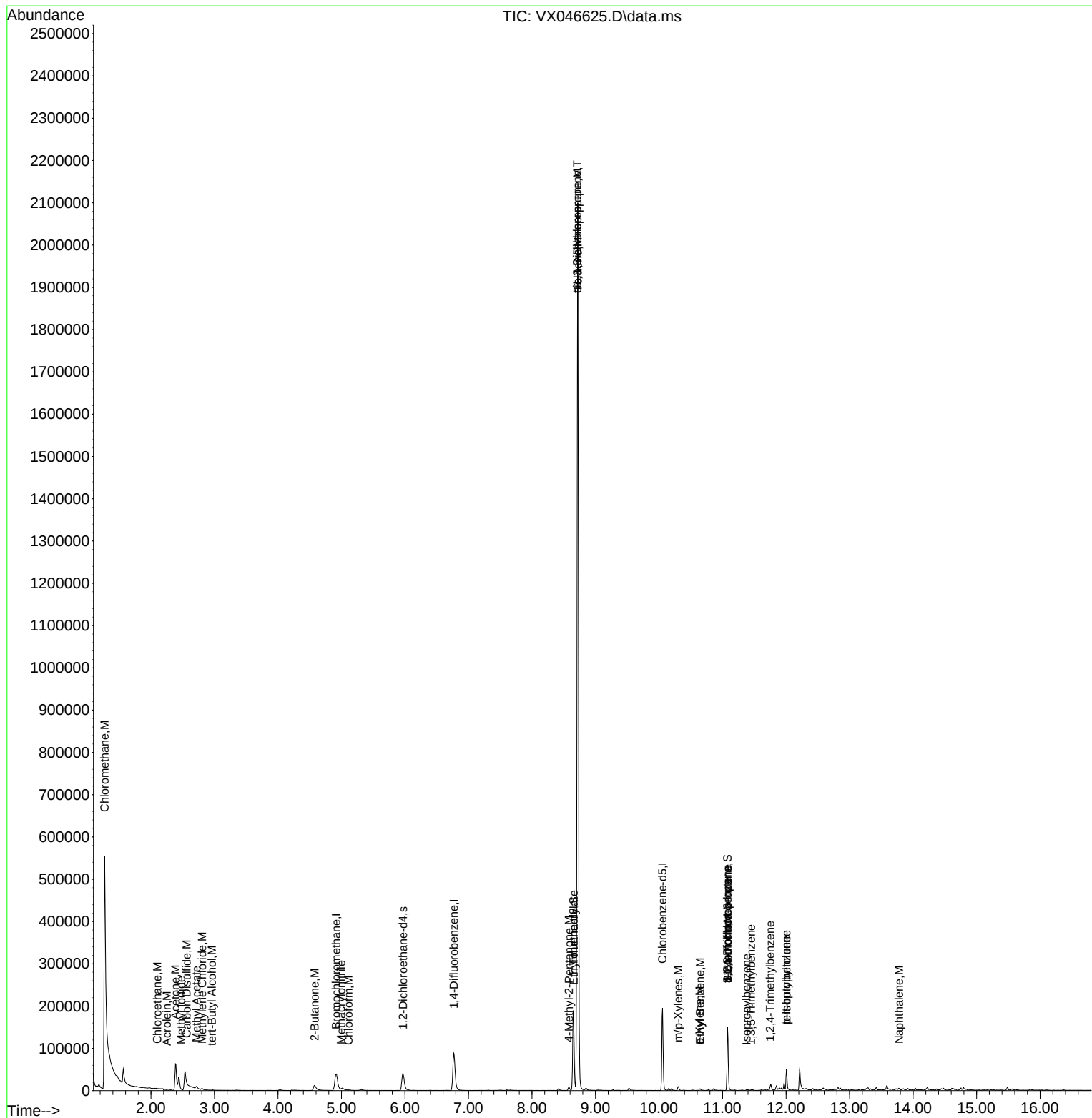
Internal Standards						
1) Bromochloromethane	4.916	128	17480	30.000	ug/l	0.00
28) 1,4-Difluorobenzene	6.769	114	92940	30.000	ug/l	0.00
57) Chlorobenzene-d5	10.055	117	83680	30.000	ug/l	0.00
System Monitoring Compounds						
27) 1,2-Dichloroethane-d4	5.970	65	43798	30.953	ug/l	0.00
Spiked Amount 30.000	Range 91 - 110		Recovery = 103.167%			
60) 4-Bromofluorobenzene	11.079	95	40172	28.482	ug/l	0.00
Spiked Amount 30.000	Range 63 - 112		Recovery = 94.933%			
63) Toluene-d8	8.653	98	111982	29.960	ug/l	0.00
Spiked Amount 30.000	Range 91 - 112		Recovery = 99.867%			
Target Compounds					Qvalue	
3) Chloromethane	1.270	50	18574	15.863	ug/l #	40
6) Chloroethane	2.099	64	243	0.375	ug/l #	43
11) Methyl Iodide	2.477	142	358	0.252	ug/l #	80
12) Methyl Acetate	2.715	43	6724	5.112	ug/l	100
13) Acrolein	2.252	56	190	1.474	ug/l #	71
15) Acetone	2.386	58	23040	186.407	ug/l	90
16) Carbon Disulfide	2.563	76	19354	6.685	ug/l	99
18) Methylene Chloride	2.806	84	1302	1.131	ug/l #	76
23) tert-Butyl Alcohol	2.959	59	34	0.311	ug/l #	100
25) Chloroform	5.111	83	541	0.256	ug/l #	78
30) 2-Butanone	4.574	43	24433	37.499	ug/l #	91
35) Methacrylonitrile	4.995	41	353	0.442	ug/l #	41
48) t-1,3-Dichloropropene	8.714	75	9697	6.627	ug/l #	1
49) cis-1,3-Dichloropropene	8.714	75	9697	5.936	ug/l #	1
51) Ethyl methacrylate	8.659	69	368	0.240	ug/l	93
56) Bromoform	11.079	173	171	0.232	ug/l #	1
58) 4-Methyl-2-Pentanone	8.580	43	5836	4.288	ug/l	97
62) Toluene	8.720	91	1293292	285.183	ug/l	100
66) Ethyl Benzene	10.646	91	2034	0.393	ug/l	97
67) m/p-Xylenes	10.299	106	2338	1.221	ug/l	93
68) o-Xylene	10.640	106	785	0.426	ug/l	75
70) Isopropylbenzene	11.378	105	2219	0.448	ug/l	97
72) 1,2,3-Trichloropropane	11.079	75	21906	18.049	ug/l	36
76) 1,3,5-Trimethylbenzene	11.451	105	941	0.229	ug/l	95
77) t-1,4-Dichloro-2-butene	11.079	75	21906	53.430	ug/l #	1
79) tert-butylbenzene	12.006	119	20174	4.920	ug/l	64
80) 1,2,4-Trimethylbenzene	11.750	105	4241	1.044	ug/l	80
82) p-Isopropyltoluene	12.006	119	20174	4.684	ug/l	99
91) Naphthalene	13.780	128	2566	0.591	ug/l	96

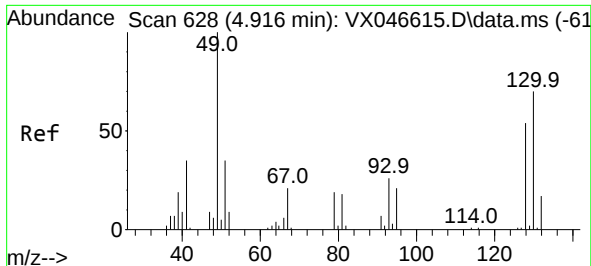
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 11 06:20:28 2025
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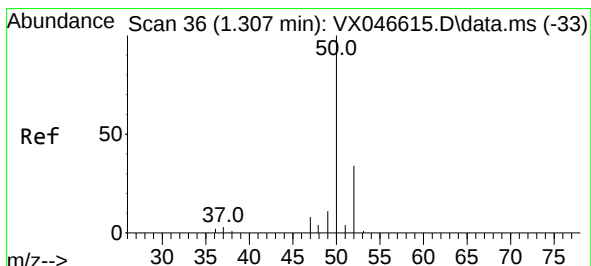
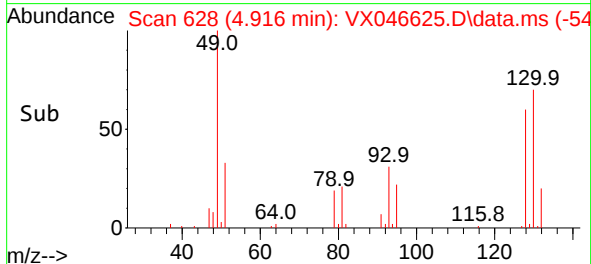
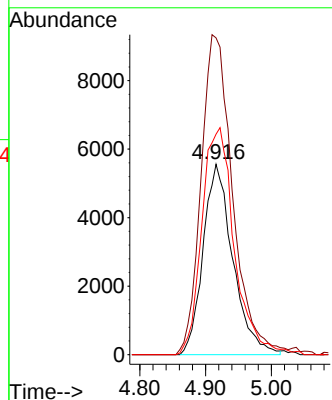
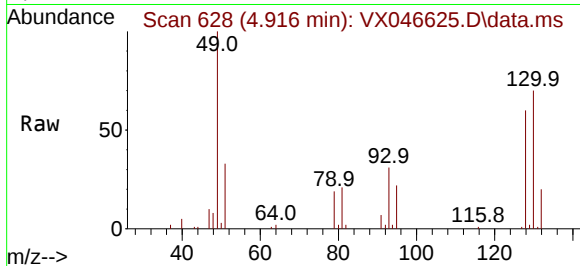




#1
Bromochloromethane
Concen: 30.000 ug/l
RT: 4.916 min Scan# 61
Delta R.T. -0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

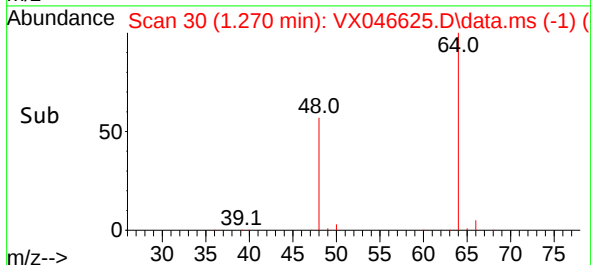
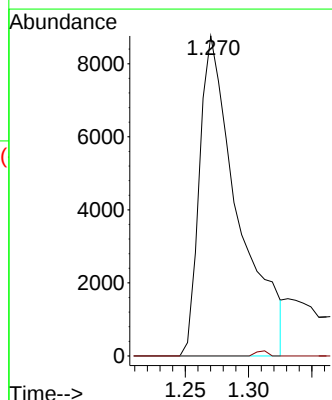
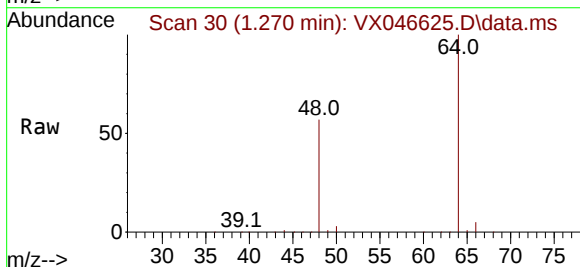
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

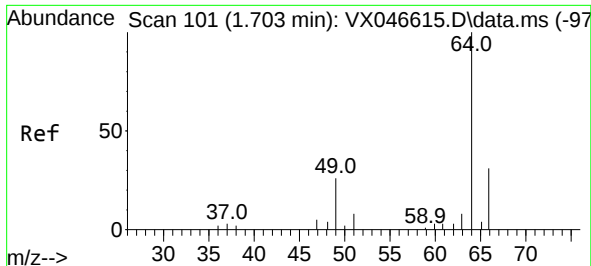
Tgt Ion:128 Resp: 17480
Ion Ratio Lower Upper
128 100
49 178.7 0.0 448.3
130 129.5 0.0 312.0



#3
Chloromethane
Concen: 15.863 ug/l
RT: 1.270 min Scan# 30
Delta R.T. -0.036 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Tgt Ion: 50 Resp: 18574
Ion Ratio Lower Upper
50 100
52 0.0 27.4 41.2#

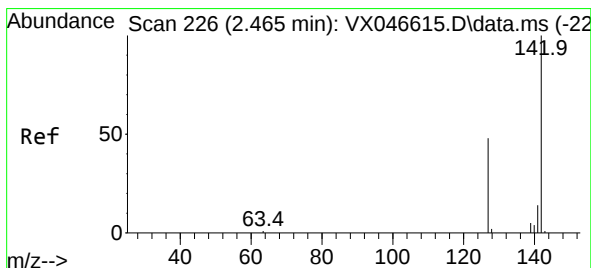
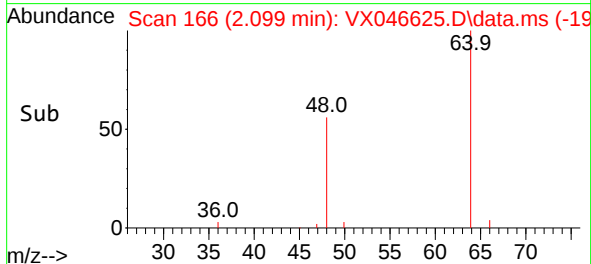
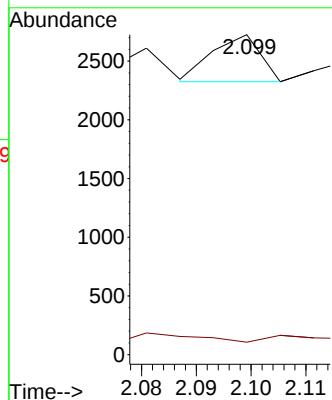
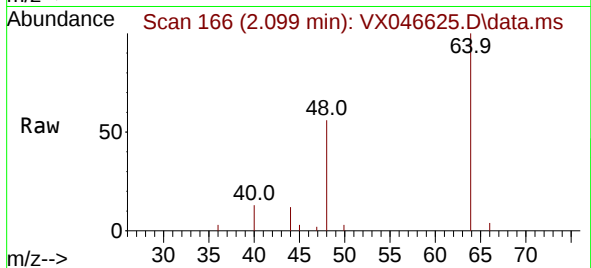




#6
Chloroethane
Concen: 0.375 ug/l
RT: 2.099 min Scan# 11
Delta R.T. 0.396 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

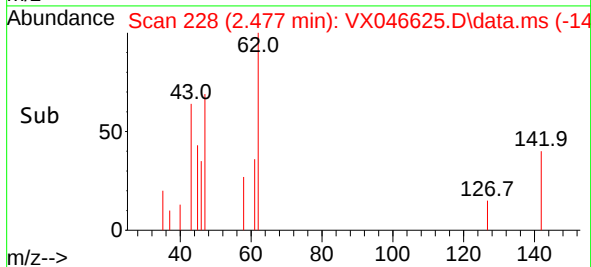
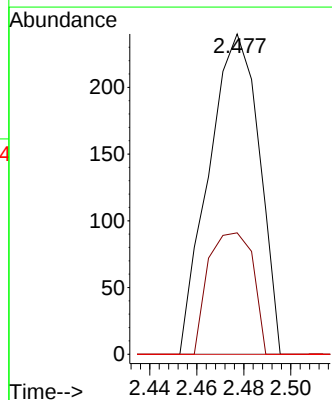
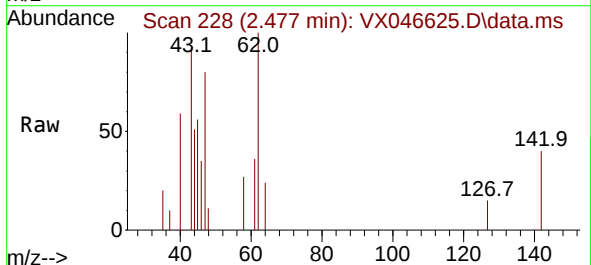
Instrument :
MSVOA_X
ClientSampleId :
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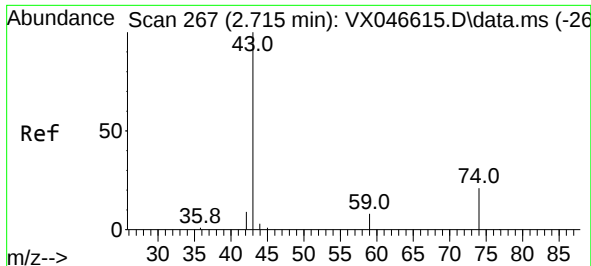
Tgt Ion: 64 Resp: 243
Ion Ratio Lower Upper
64 100
66 0.0 25.0 37.6#



#11
Methyl Iodide
Concen: 0.252 ug/l
RT: 2.477 min Scan# 228
Delta R.T. 0.012 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Tgt Ion:142 Resp: 358
Ion Ratio Lower Upper
142 100
127 37.9 24.1 72.4
141 0.0 7.0 20.9#

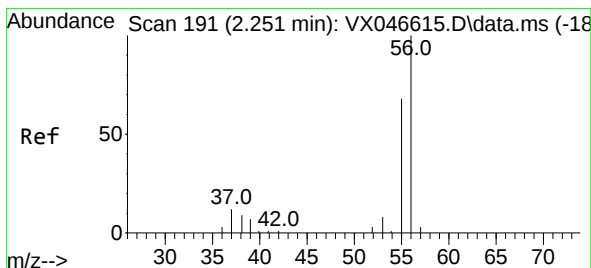
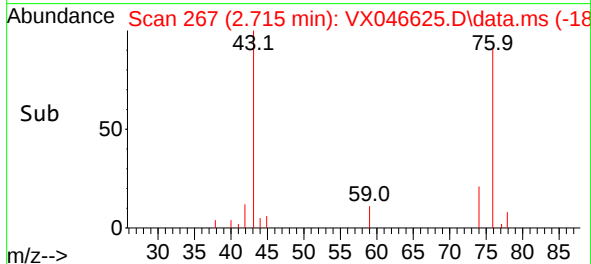
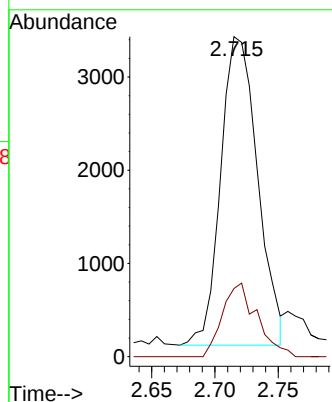
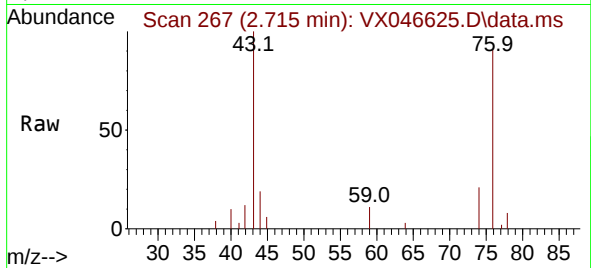




#12
Methyl Acetate
Concen: 5.112 ug/l
RT: 2.715 min Scan# 267
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

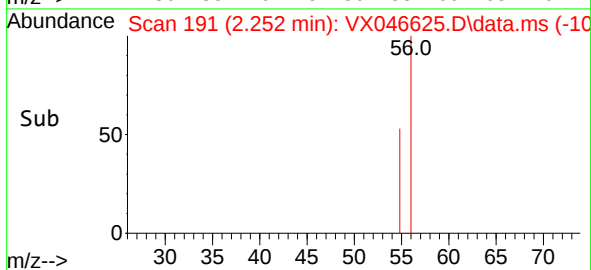
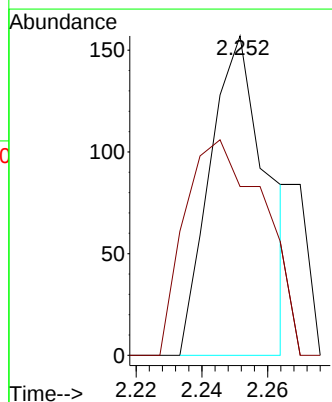
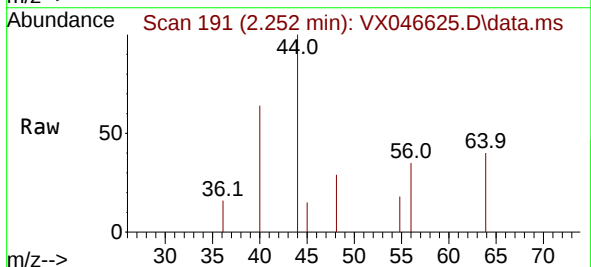
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

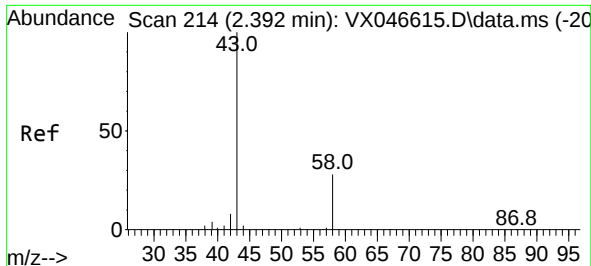
Tgt Ion: 43 Resp: 6724
Ion Ratio Lower Upper
43 100
74 21.7 17.2 25.8



#13
Acrolein
Concen: 1.474 ug/l
RT: 2.252 min Scan# 191
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Tgt Ion: 56 Resp: 190
Ion Ratio Lower Upper
56 100
55 93.7 56.0 84.0#

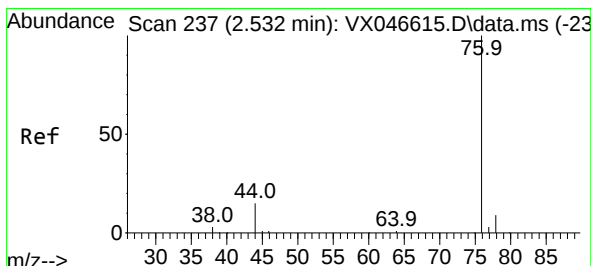
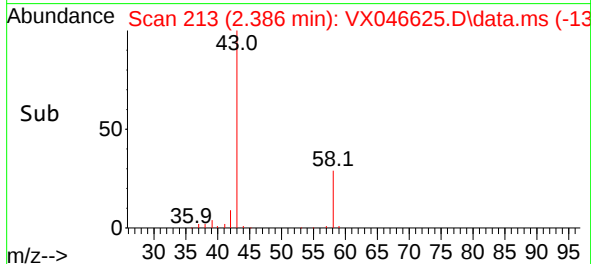
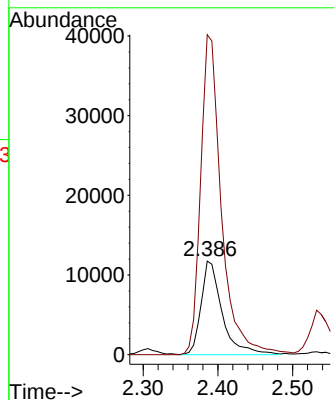
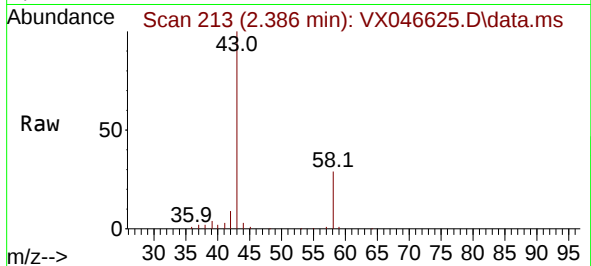




#15
Acetone
Concen: 186.407 ug/l
RT: 2.386 min Scan# 214
Delta R.T. -0.006 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

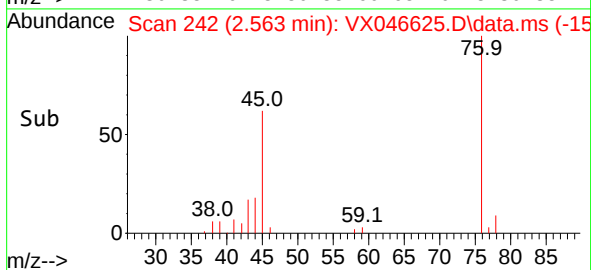
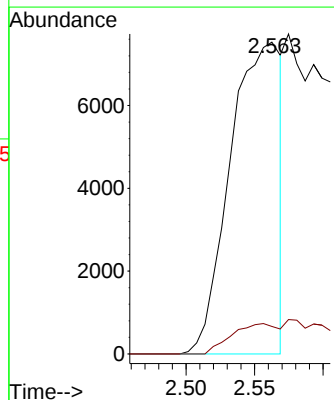
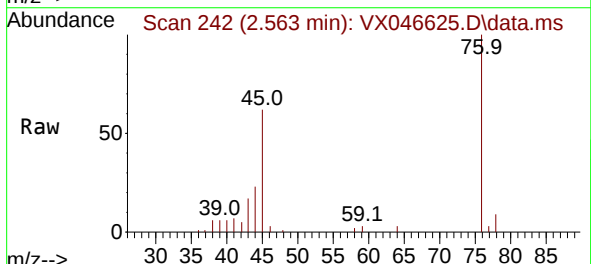
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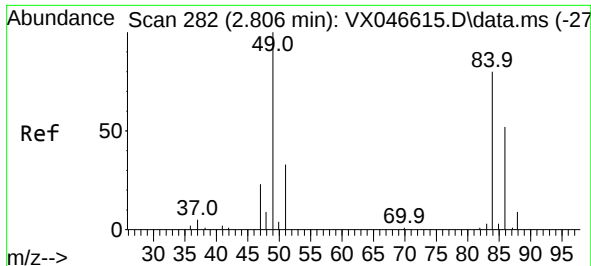
Tgt Ion: 58 Resp: 23040
Ion Ratio Lower Upper
58 100
43 341.7 290.6 435.8



#16
Carbon Disulfide
Concen: 6.685 ug/l
RT: 2.563 min Scan# 242
Delta R.T. 0.031 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Tgt Ion: 76 Resp: 19354
Ion Ratio Lower Upper
76 100
78 8.8 7.4 11.0

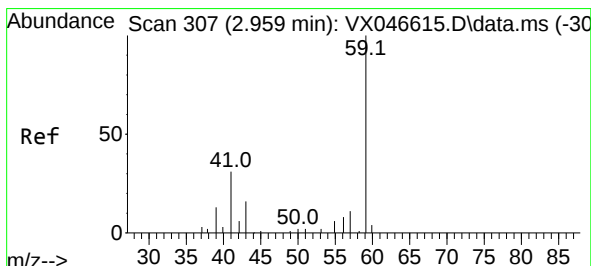
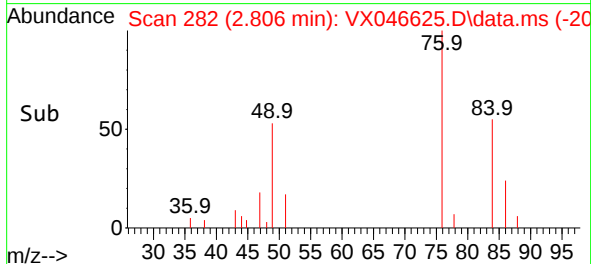
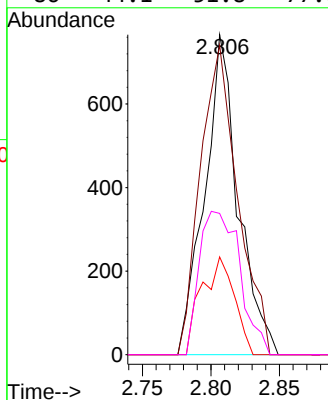
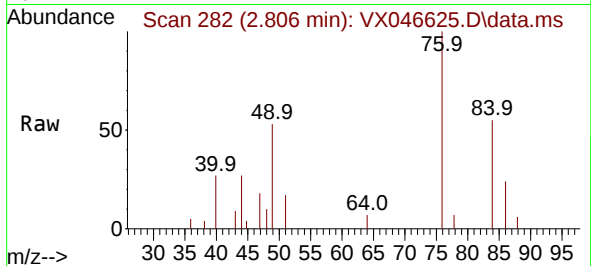




#18
Methylene Chloride
Concen: 1.131 ug/l
RT: 2.806 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

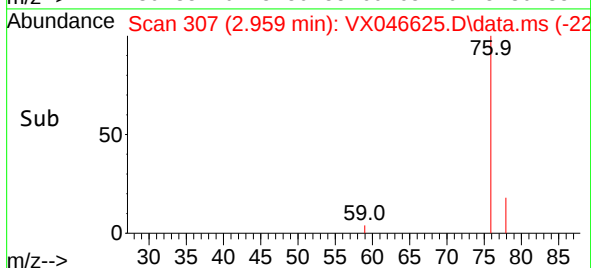
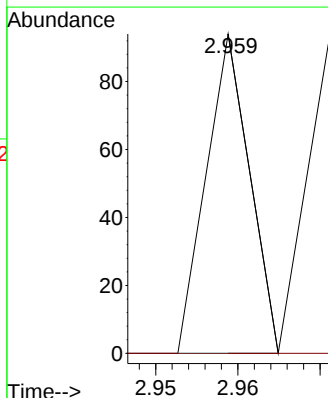
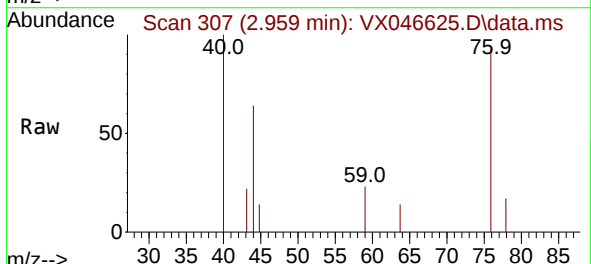
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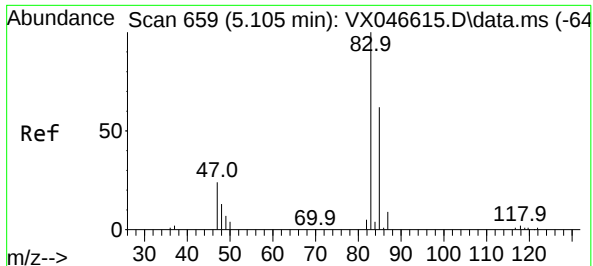
Tgt Ion: 84 Resp: 1302
Ion Ratio Lower Upper
84 100
49 96.7 100.1 150.1#
51 30.5 33.0 49.4#
86 44.1 51.8 77.6#



#23
tert-Butyl Alcohol
Concen: 0.311 ug/l
RT: 2.959 min Scan# 307
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Tgt Ion: 59 Resp: 34
Ion Ratio Lower Upper
59 100
52 0.0 0.0 0.0





#25

Chloroform

Concen: 0.256 ug/l

RT: 5.111 min Scan# 6

Delta R.T. 0.006 min

Lab File: VX046625.D

Acq: 11 Jun 2025 00:54

Instrument :

MSVOA_X

ClientSampleId :

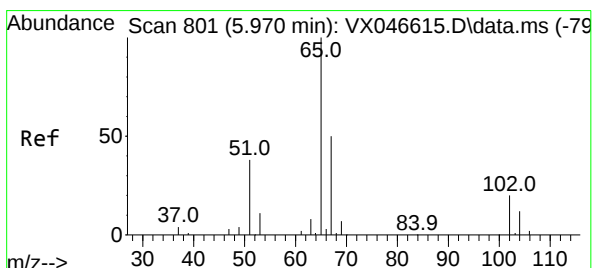
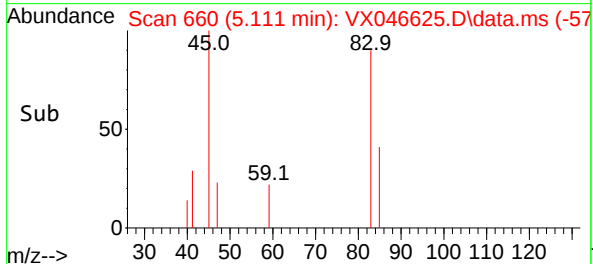
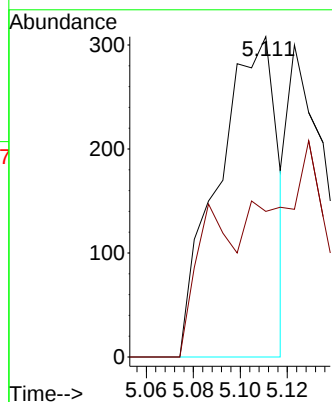
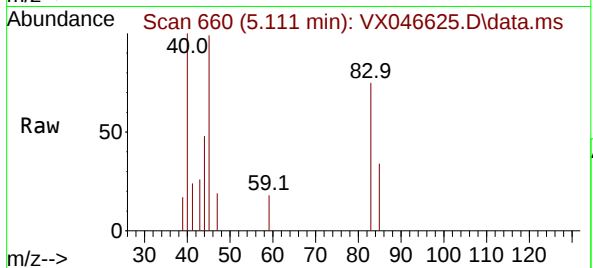
002-35TH-AVE(JUNE)

Tgt Ion: 83 Resp: 541

Ion Ratio Lower Upper

83 100

85 45.5 49.8 74.6#



#27

1,2-Dichloroethane-d4

Concen: 30.953 ug/l

RT: 5.970 min Scan# 801

Delta R.T. 0.000 min

Lab File: VX046625.D

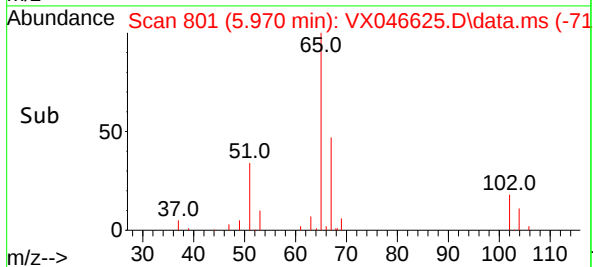
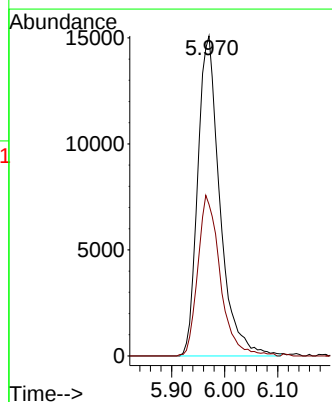
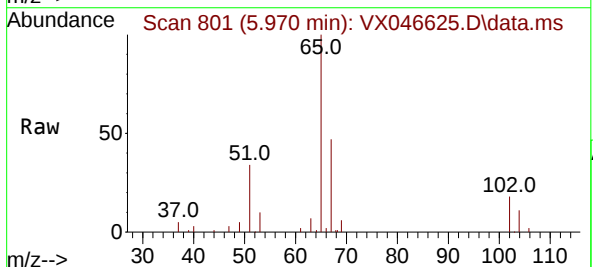
Acq: 11 Jun 2025 00:54

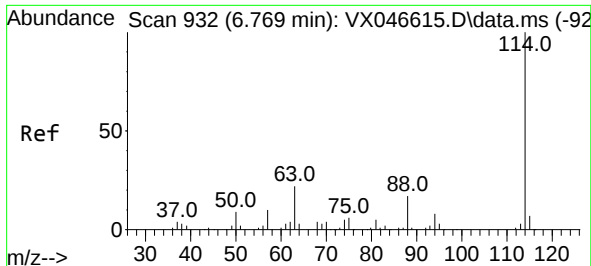
Tgt Ion: 65 Resp: 43798

Ion Ratio Lower Upper

65 100

67 50.4 41.4 62.2





#28

1,4-Difluorobenzene

Concen: 30.000 ug/l

RT: 6.769 min Scan# 91

Delta R.T. 0.000 min

Lab File: VX046625.D

Acq: 11 Jun 2025 00:54

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MSVOA_X

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002-35TH-AVE(JUNE)

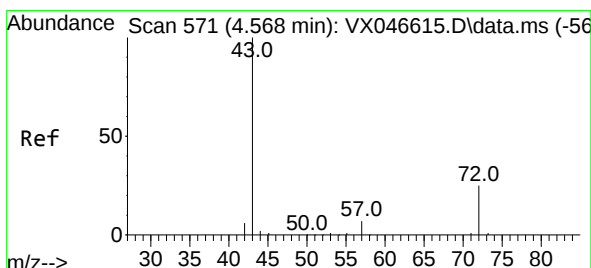
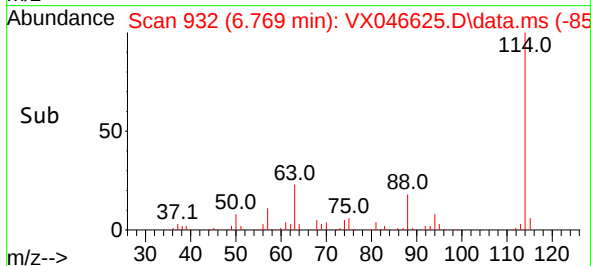
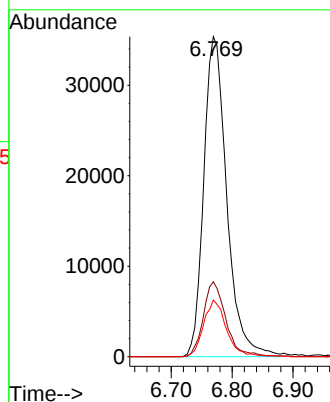
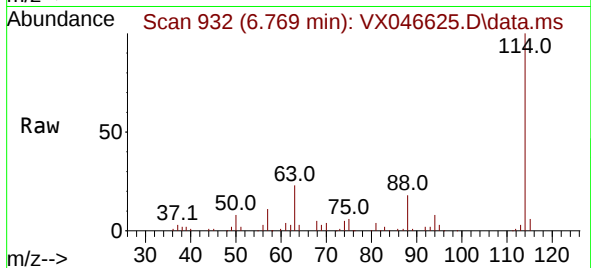
Tgt Ion:114 Resp: 92940

Ion Ratio Lower Upper

114 100

63 22.9 18.1 27.1

88 17.0 14.1 21.1



#30

2-Butanone

Concen: 37.499 ug/l

RT: 4.574 min Scan# 572

Delta R.T. 0.006 min

Lab File: VX046625.D

Acq: 11 Jun 2025 00:54

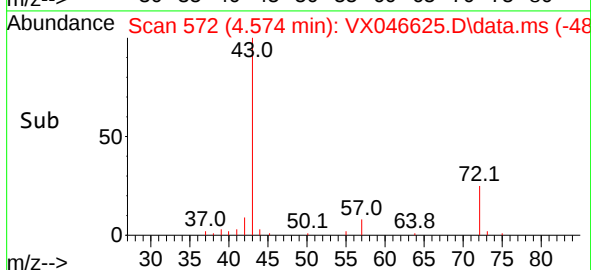
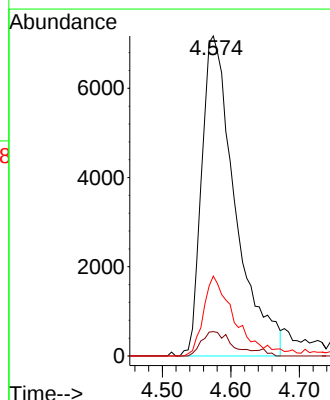
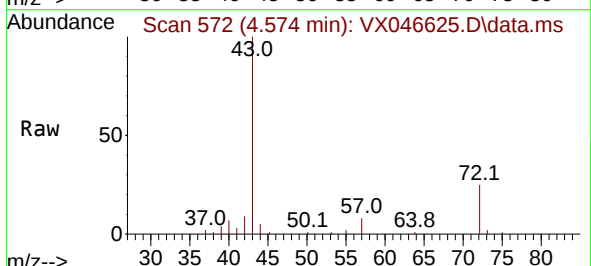
Tgt Ion: 43 Resp: 24433

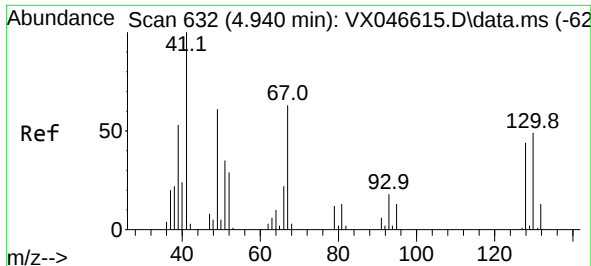
Ion Ratio Lower Upper

43 100

57 6.3 5.8 8.6

72 18.8 19.4 29.2#

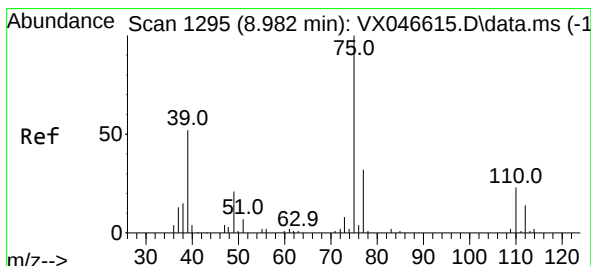
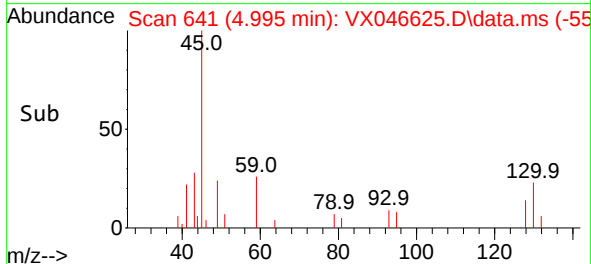
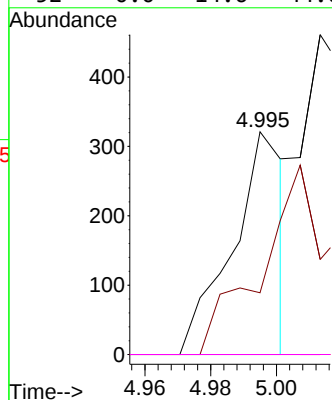
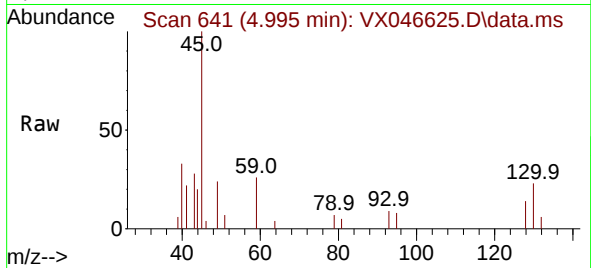




#35
Methacrylonitrile
Concen: 0.442 ug/l
RT: 4.995 min Scan# 641
Delta R.T. 0.055 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

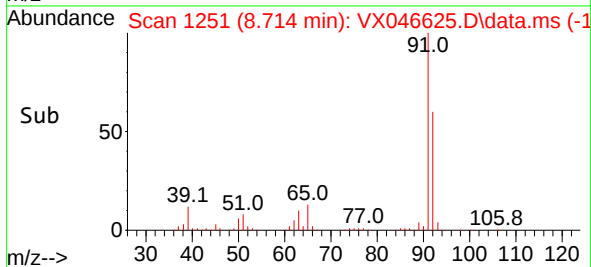
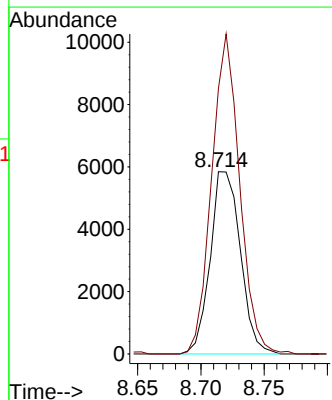
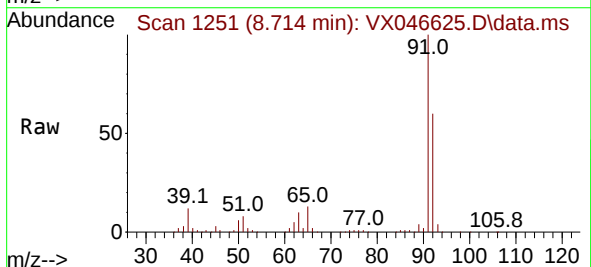
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

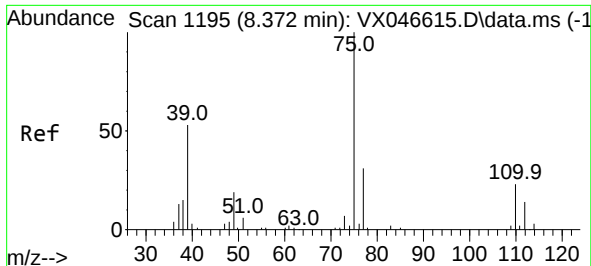
Tgt Ion: 41	Resp:	353
Ion	Ratio	Lower Upper
41	100	
39	27.7	26.4 79.2
67	0.0	31.4 94.3#
52	0.0	14.6 44.0#



#48
t-1,3-Dichloropropene
Concen: 6.627 ug/l
RT: 8.714 min Scan# 1251
Delta R.T. -0.268 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Tgt Ion: 75	Resp:	9697
Ion	Ratio	Lower Upper
75	100	
77	145.7	25.4 38.0#

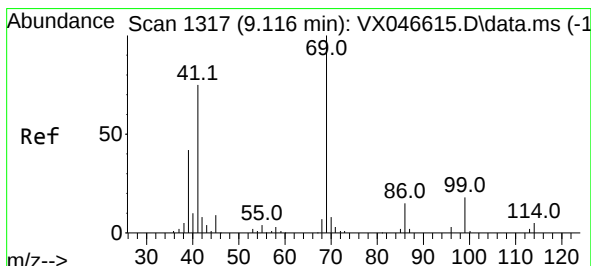
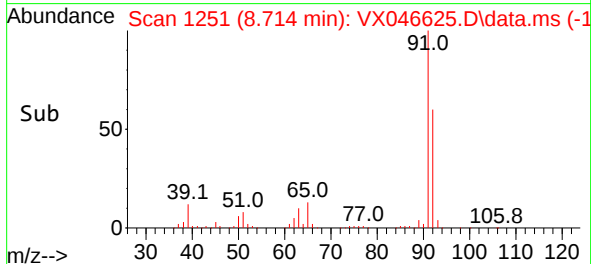
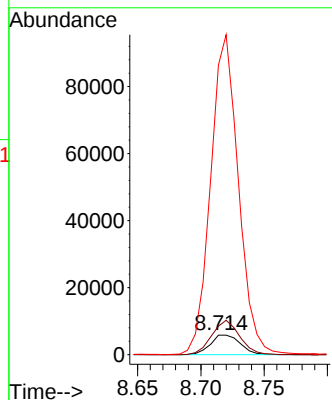
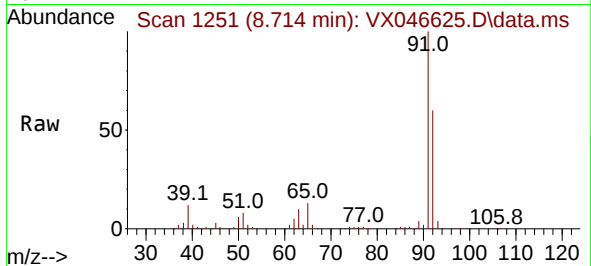




#49
 cis-1,3-Dichloropropene
 Concen: 5.936 ug/l
 RT: 8.714 min Scan# 1195
 Delta R.T. 0.342 min
 Lab File: VX046625.D
 Acq: 11 Jun 2025 00:54

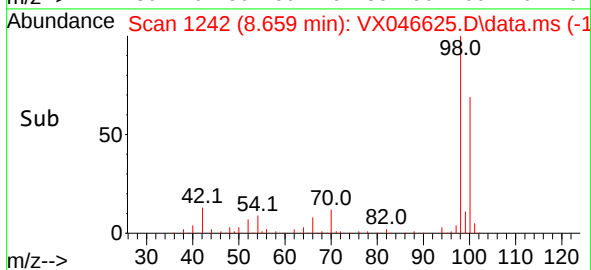
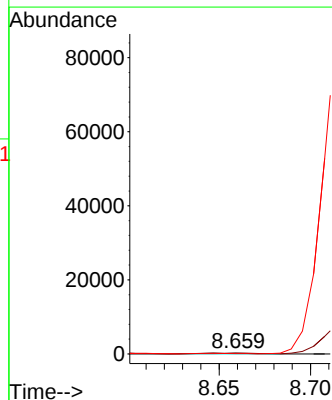
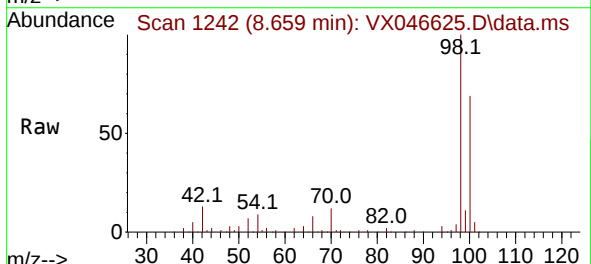
Instrument :
 MSVOA_X
 ClientSampleId :
 002-35TH-AVE(JUNE)

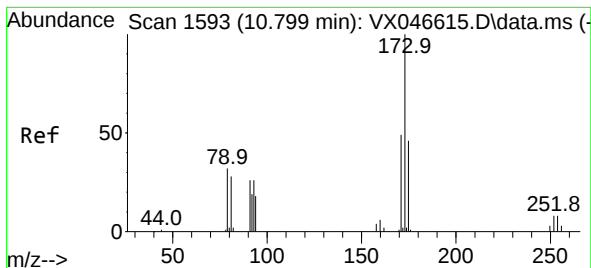
Tgt Ion: 75 Resp: 9697
 Ion Ratio Lower Upper
 75 100
 77 145.7 24.6 36.8#
 39 1474.5 42.7 64.1#



#51
 Ethyl methacrylate
 Concen: 0.240 ug/l
 RT: 8.659 min Scan# 1242
 Delta R.T. -0.457 min
 Lab File: VX046625.D
 Acq: 11 Jun 2025 00:54

Tgt Ion: 69 Resp: 368
 Ion Ratio Lower Upper
 69 100
 41 68.8 37.4 112.2
 39 37.2 20.8 62.5





#56

Bromoform

Concen: 0.232 ug/l

RT: 11.079 min Scan# 1

Delta R.T. 0.281 min

Lab File: VX046625.D

Acq: 11 Jun 2025 00:54

Instrument :

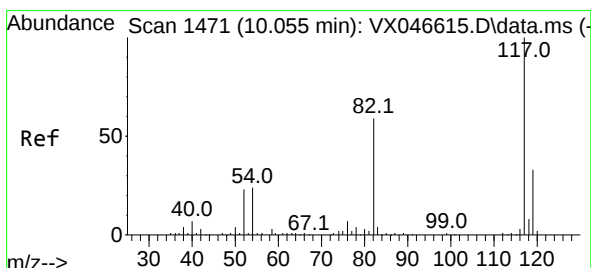
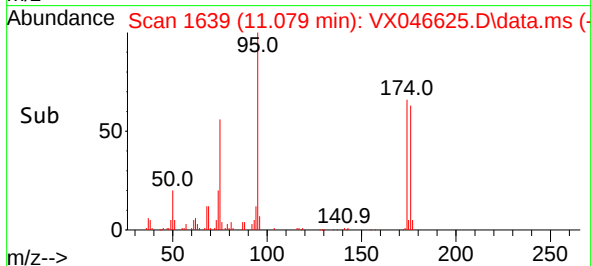
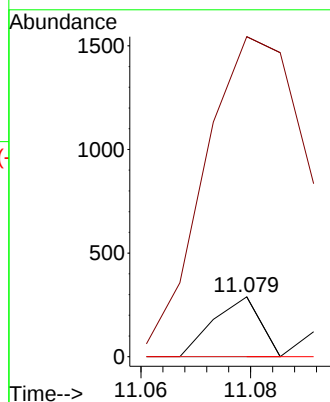
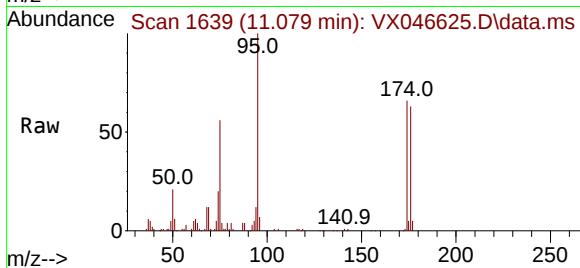
MSVOA_X

ClientSampleId :

002-35TH-AVE(JUNE)

Tgt Ion:173 Resp: 171

Ion	Ratio	Lower	Upper
173	100		
175	1262.0	38.0	57.0#
254	0.0	6.7	10.1#



#57

Chlorobenzene-d5

Concen: 30.000 ug/l

RT: 10.055 min Scan# 1471

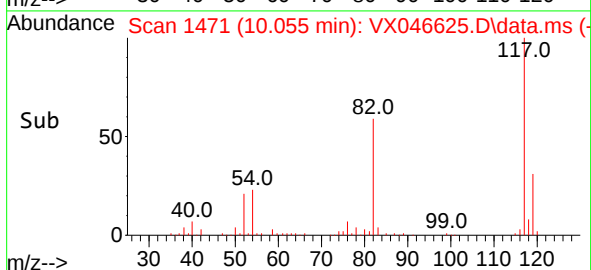
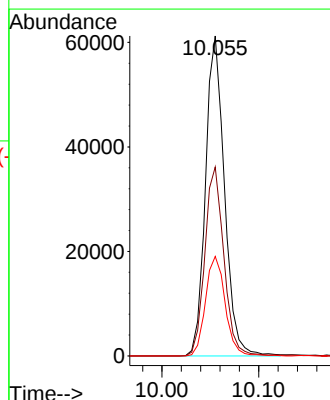
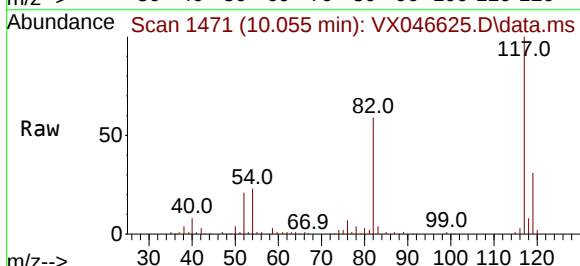
Delta R.T. 0.000 min

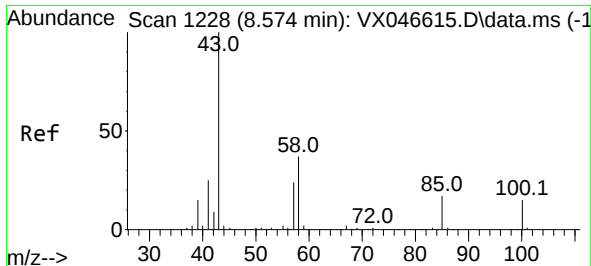
Lab File: VX046625.D

Acq: 11 Jun 2025 00:54

Tgt Ion:117 Resp: 83680

Ion	Ratio	Lower	Upper
117	100		
82	59.2	46.5	69.7
119	32.4	25.8	38.6





#58

4-Methyl-2-Pentanone

Concen: 4.288 ug/l

RT: 8.580 min Scan# 1229

Delta R.T. 0.006 min

Lab File: VX046625.D

Acq: 11 Jun 2025 00:54

Instrument :

MSVOA_X

ClientSampleId :

002-35TH-AVE(JUNE)

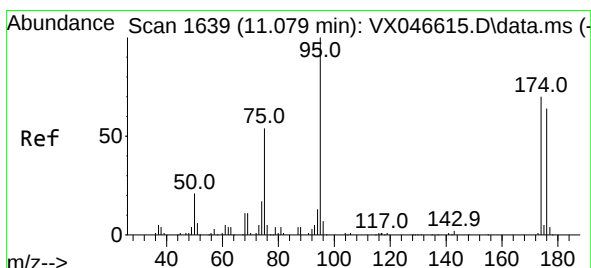
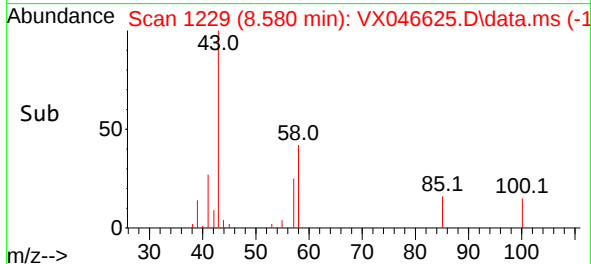
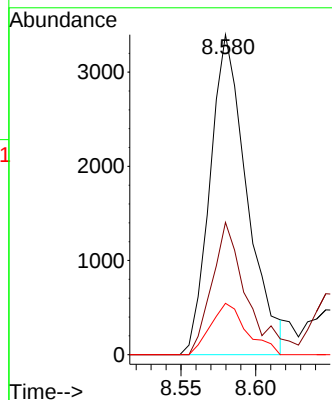
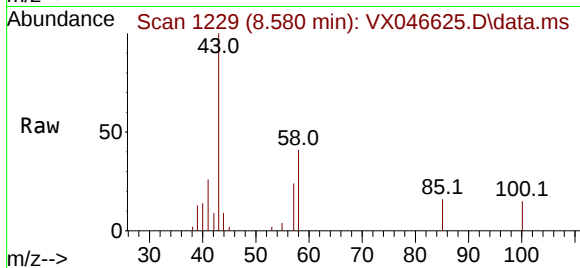
Tgt Ion: 43 Resp: 5836

Ion Ratio Lower Upper

43 100

58 35.0 29.4 44.2

85 15.7 13.3 19.9



#60

4-Bromofluorobenzene

Concen: 28.482 ug/l

RT: 11.079 min Scan# 1639

Delta R.T. 0.000 min

Lab File: VX046625.D

Acq: 11 Jun 2025 00:54

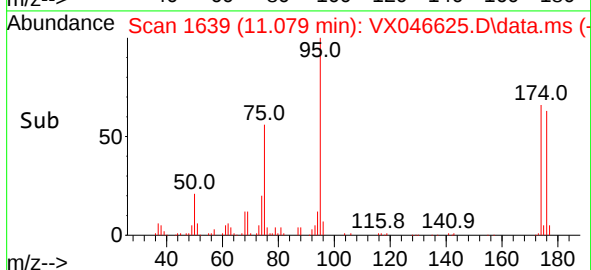
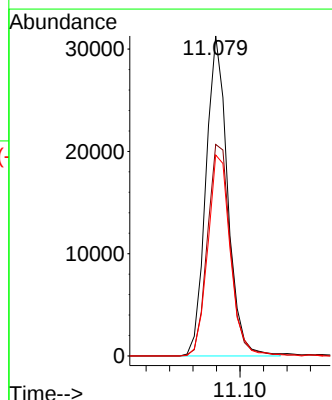
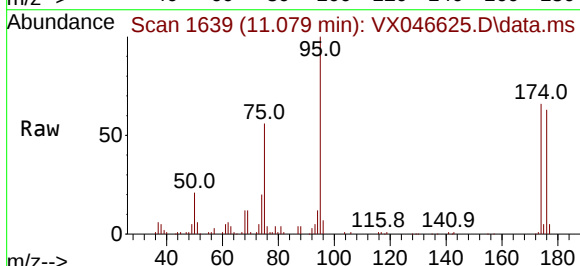
Tgt Ion: 95 Resp: 40172

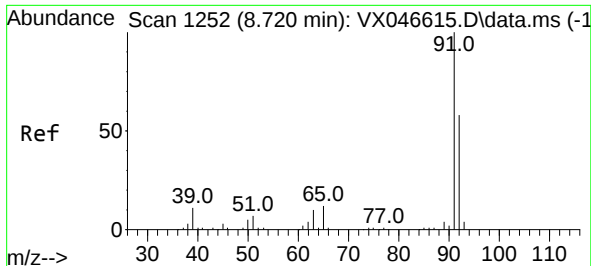
Ion Ratio Lower Upper

95 100

174 70.1 56.0 84.0

176 65.7 52.2 78.4

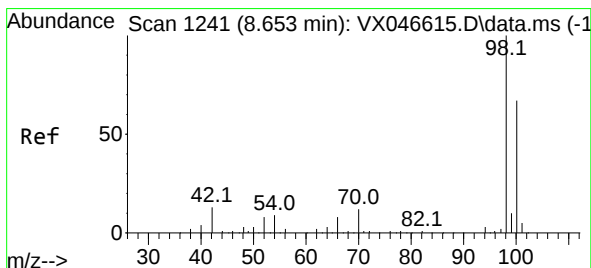
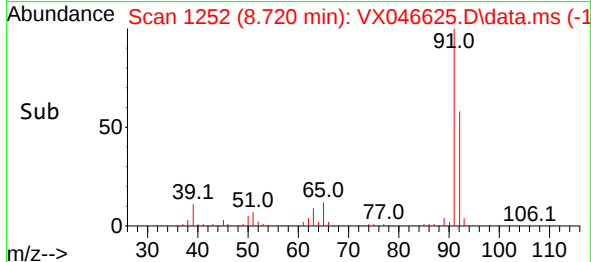
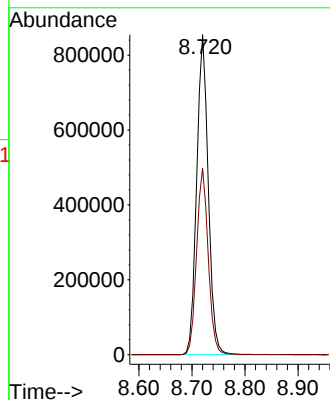
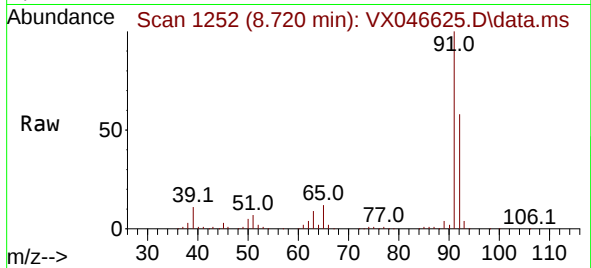




#62
Toluene
Concen: 285.183 ug/l
RT: 8.720 min Scan# 1252
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

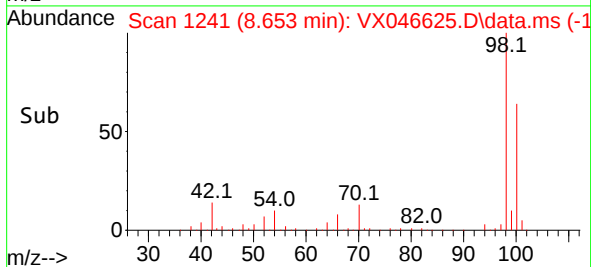
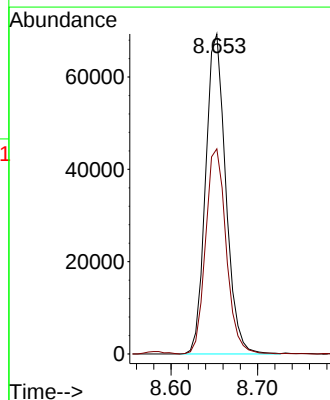
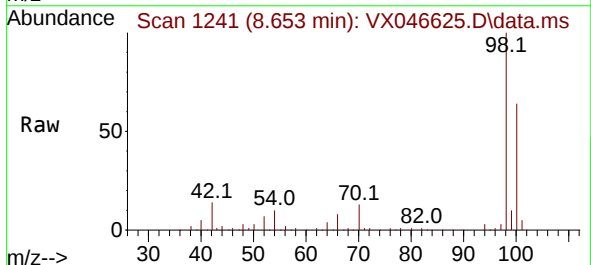
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

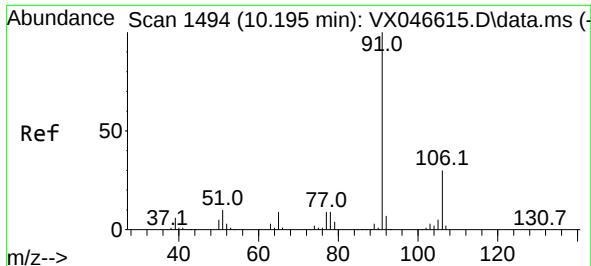
Tgt Ion: 91 Resp: 1293292
Ion Ratio Lower Upper
91 100
92 58.5 46.8 70.2



#63
Toluene-d8
Concen: 29.960 ug/l
RT: 8.653 min Scan# 1241
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Tgt Ion: 98 Resp: 111982
Ion Ratio Lower Upper
98 100
100 65.6 52.6 79.0

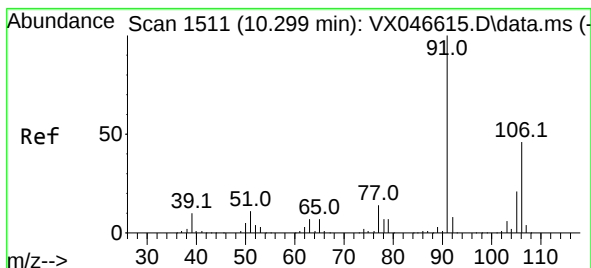
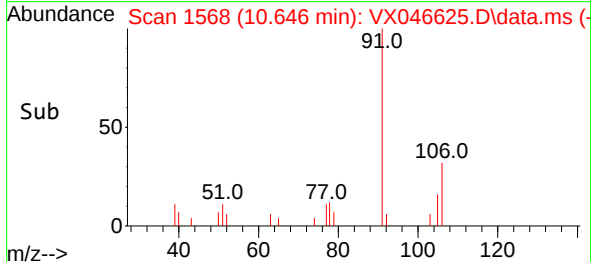
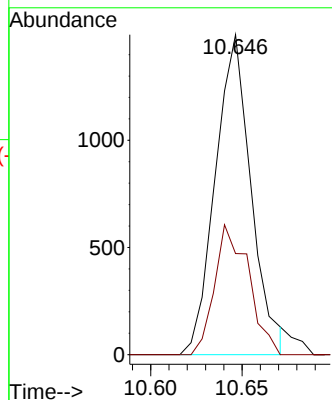
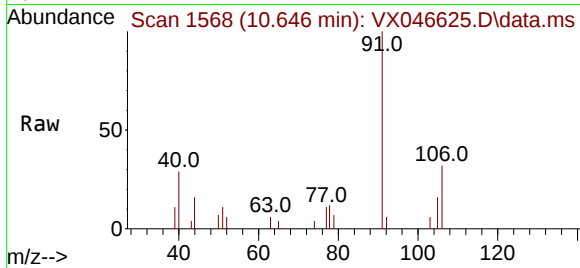




#66
Ethyl Benzene
Concen: 0.393 ug/l
RT: 10.646 min Scan# 11
Delta R.T. 0.451 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

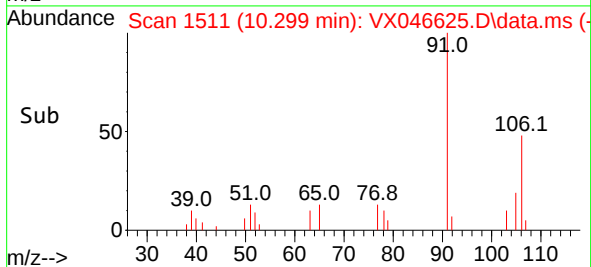
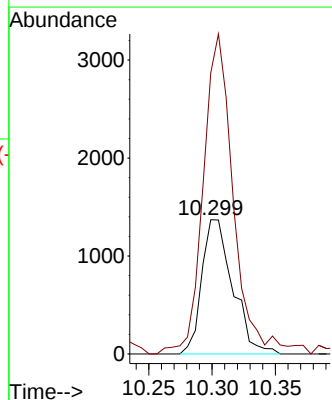
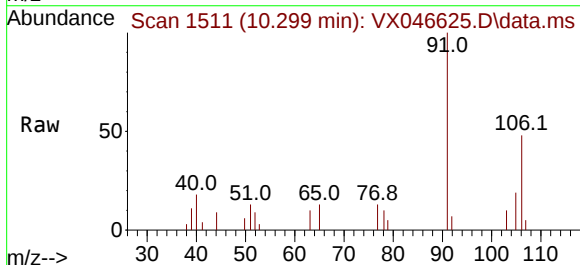
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

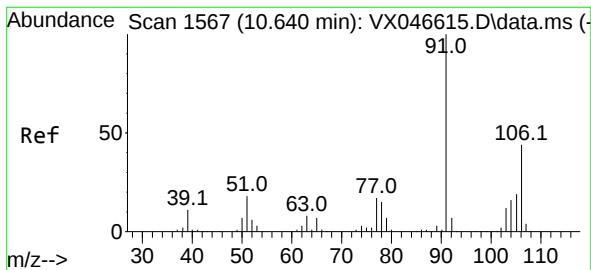
Tgt Ion: 91 Resp: 2034
Ion Ratio Lower Upper
91 100
106 31.6 23.9 35.9



#67
m/p-Xylenes
Concen: 1.221 ug/l
RT: 10.299 min Scan# 1511
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Tgt Ion: 106 Resp: 2338
Ion Ratio Lower Upper
106 100
91 225.1 171.5 257.3





#68

o-Xylene

Concen: 0.426 ug/l

RT: 10.640 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX046625.D

Acq: 11 Jun 2025 00:54

Instrument :

MSVOA_X

ClientSampleId :

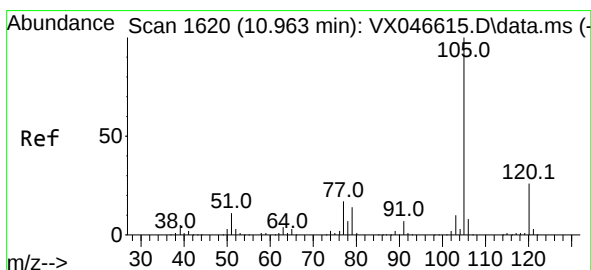
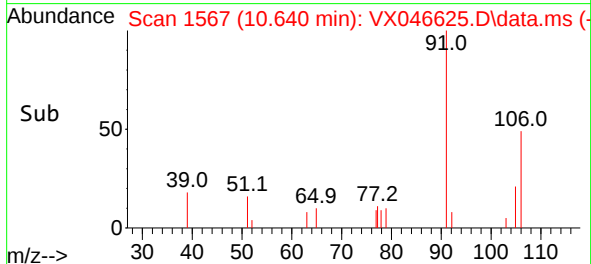
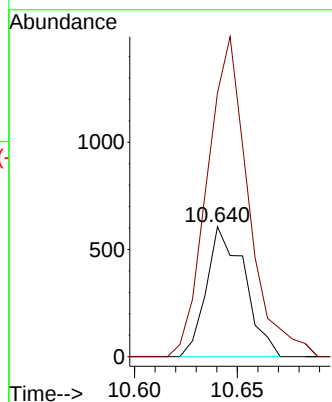
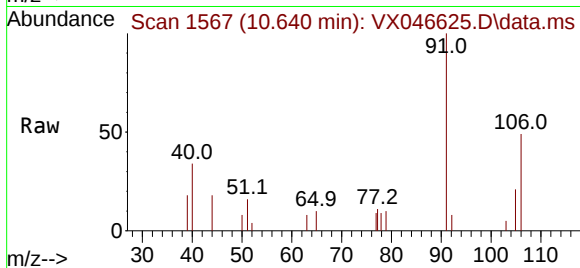
002-35TH-AVE(JUNE)

Tgt Ion:106 Resp: 785

Ion Ratio Lower Upper

106 100

91 265.7 112.3 336.9



#70

Isopropylbenzene

Concen: 0.448 ug/l

RT: 11.378 min Scan# 1688

Delta R.T. 0.415 min

Lab File: VX046625.D

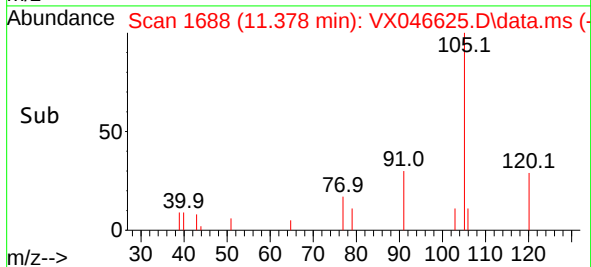
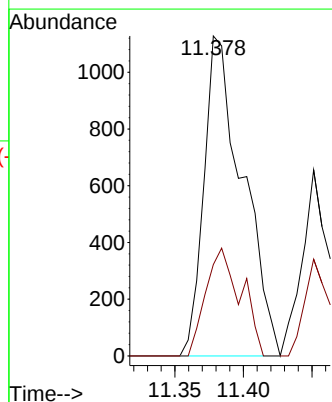
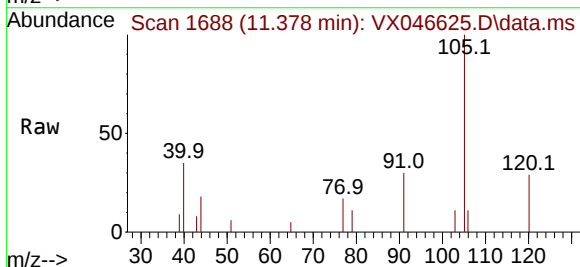
Acq: 11 Jun 2025 00:54

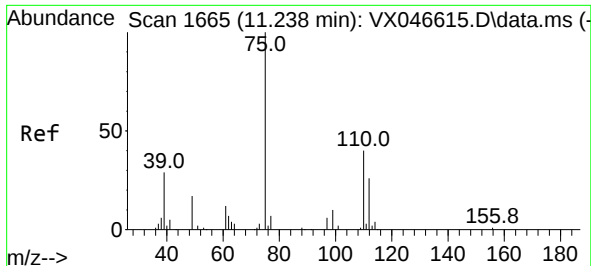
Tgt Ion:105 Resp: 2219

Ion Ratio Lower Upper

105 100

120 24.4 18.1 33.5

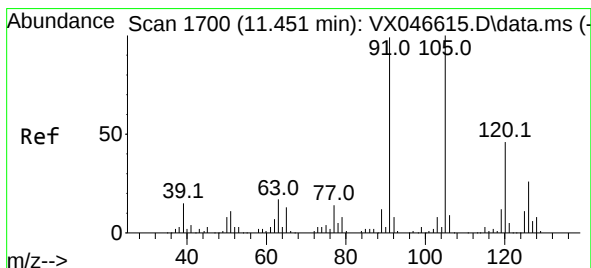
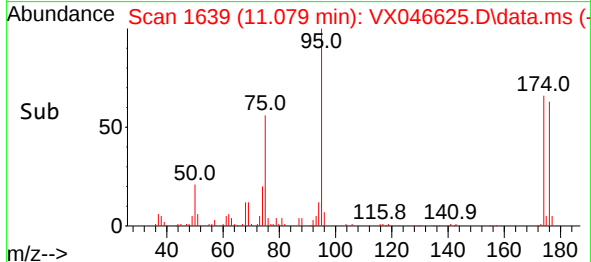
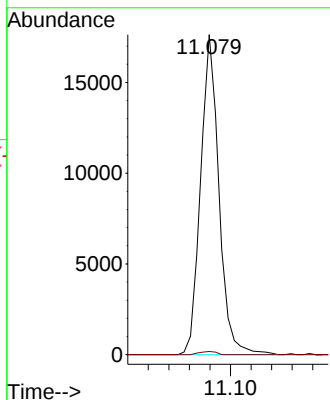
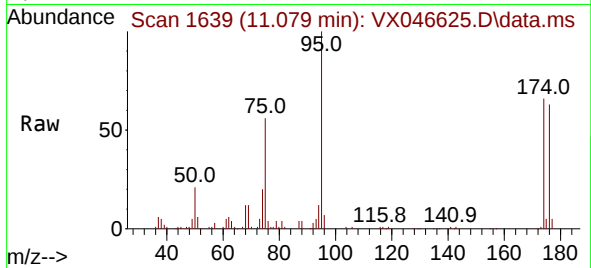




#72
1,2,3-Trichloropropane
Concen: 18.049 ug/l
RT: 11.079 min Scan# 1
Delta R.T. -0.158 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

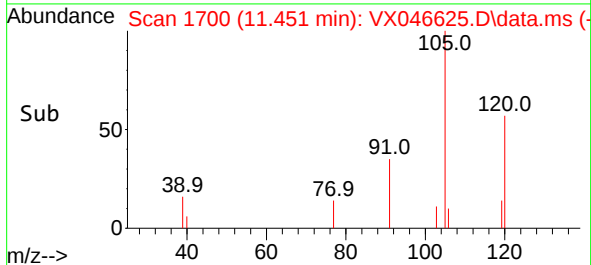
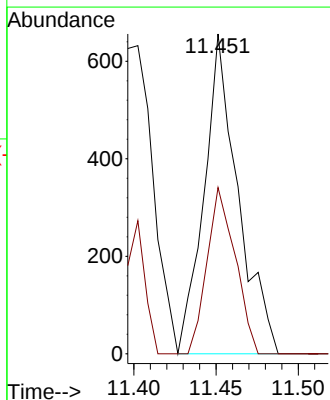
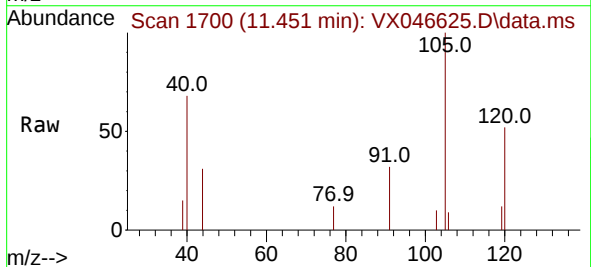
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

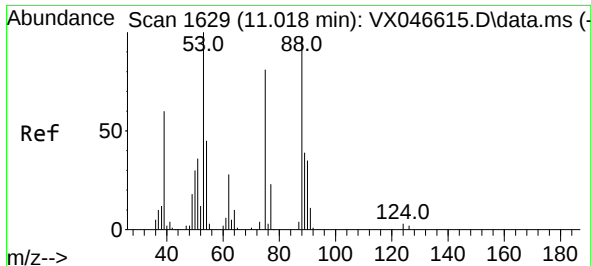
Tgt Ion: 75 Resp: 21906
Ion Ratio Lower Upper
75 100
77 0.9 0.0 82.6



#76
1,3,5-Trimethylbenzene
Concen: 0.229 ug/l
RT: 11.451 min Scan# 1700
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Tgt Ion: 105 Resp: 941
Ion Ratio Lower Upper
105 100
120 43.3 0.0 92.8

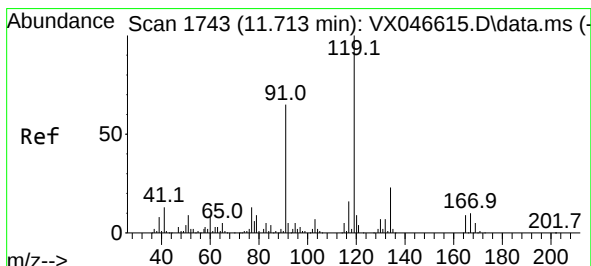
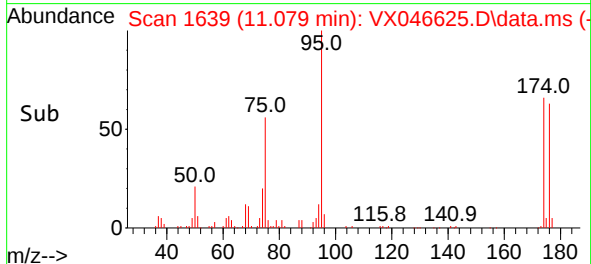
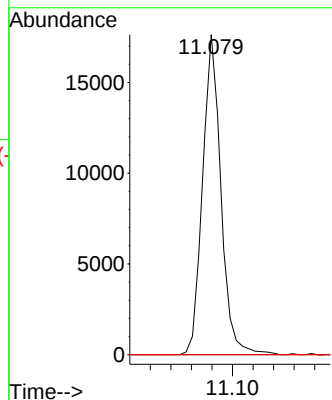
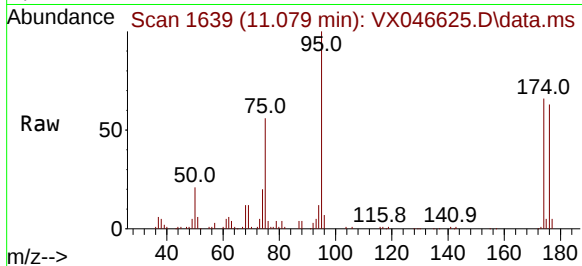




#77
t-1,4-Dichloro-2-butene
Concen: 53.430 ug/l
RT: 11.079 min Scan# 1
Delta R.T. 0.061 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

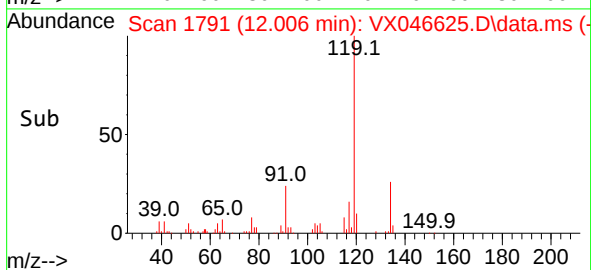
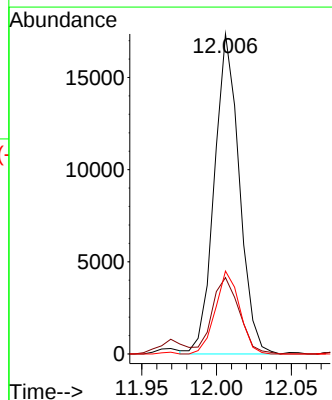
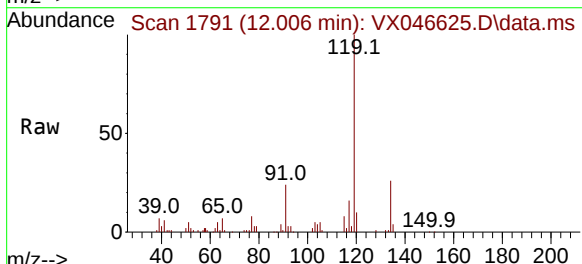
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

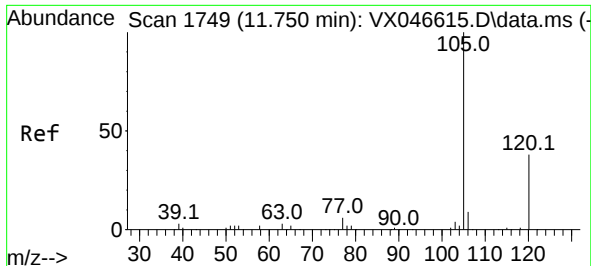
Tgt Ion: 75 Resp: 21906
Ion Ratio Lower Upper
75 100
53 0.0 61.9 185.7#
89 0.0 24.0 72.0#



#79
tert-butylbenzene
Concen: 4.920 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.293 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Tgt Ion: 119 Resp: 20174
Ion Ratio Lower Upper
119 100
91 26.2 0.0 126.0
134 25.1 0.0 45.6

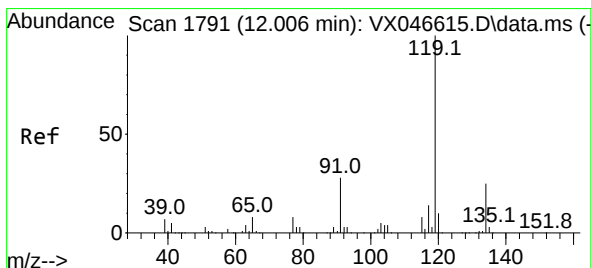
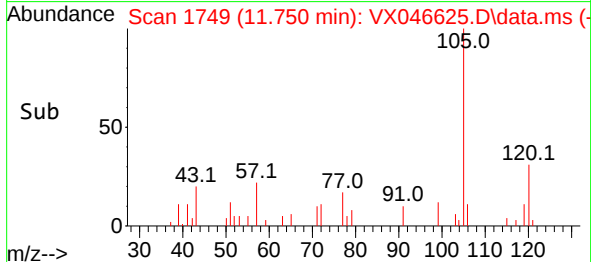
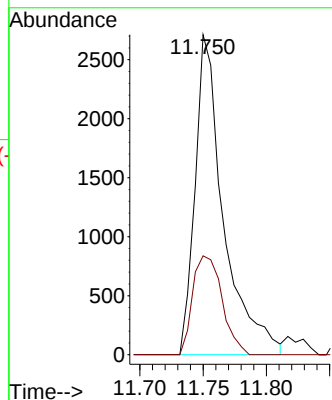
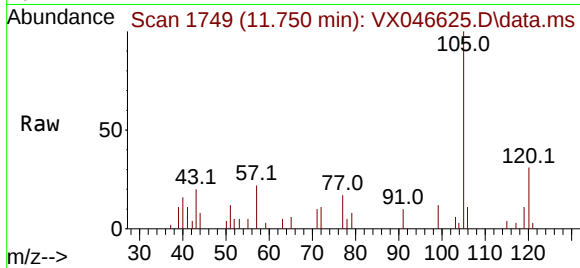




#80
1,2,4-Trimethylbenzene
Concen: 1.044 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

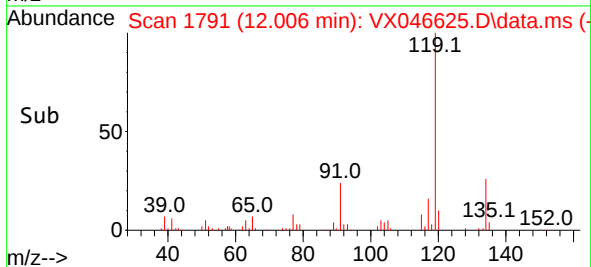
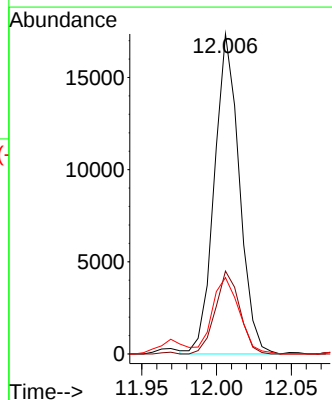
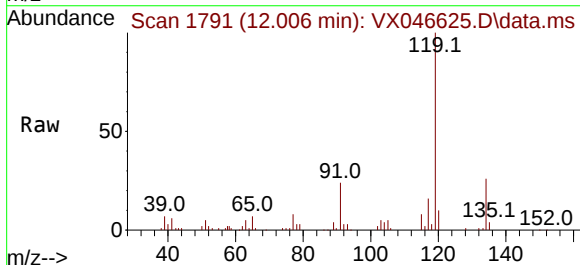
Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

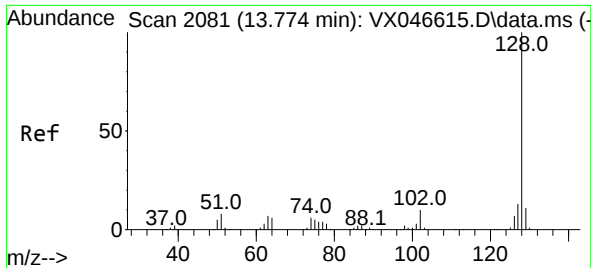
Tgt Ion:105 Resp: 4241
Ion Ratio Lower Upper
105 100
120 31.9 0.0 89.6



#82
p-Isopropyltoluene
Concen: 4.684 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. 0.000 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Tgt Ion:119 Resp: 20174
Ion Ratio Lower Upper
119 100
134 25.1 0.0 50.0
91 26.2 0.0 54.0





#91
Naphthalene
Concen: 0.591 ug/l
RT: 13.780 min Scan# 2081
Delta R.T. 0.006 min
Lab File: VX046625.D
Acq: 11 Jun 2025 00:54

Instrument :
MSVOA_X
ClientSampleId :
002-35TH-AVE(JUNE)

Tgt Ion:	128	Resp:	2566
Ion	Ratio	Lower	Upper
128	100		
127	14.8	10.2	15.4
129	10.0	8.8	13.2

