

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX101725\
 Data File : VX048215.D
 Acq On : 17 Oct 2025 16:13
 Operator : JC/MD
 Sample : Q3352-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3

Quant Time: Oct 18 00:20:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X101725W.M
 Quant Title : SW846 8260
 QLast Update : Sat Oct 18 00:06:31 2025
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	5.544	168	105060	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	213655	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	237995	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	124797	50.000	ug/l	0.00

System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.946	65	89102	54.745	ug/l	0.00
Spiked Amount	50.000	Range	78 - 117	Recovery	= 109.480%	
35) Dibromofluoromethane	5.373	113	74183	50.028	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 100.060%	
50) Toluene-d8	8.635	98	257222	48.151	ug/l	0.00
Spiked Amount	50.000	Range	92 - 112	Recovery	= 96.300%	
62) 4-Bromofluorobenzene	11.061	95	115487	59.355	ug/l	0.00
Spiked Amount	50.000	Range	83 - 123	Recovery	= 118.720%	

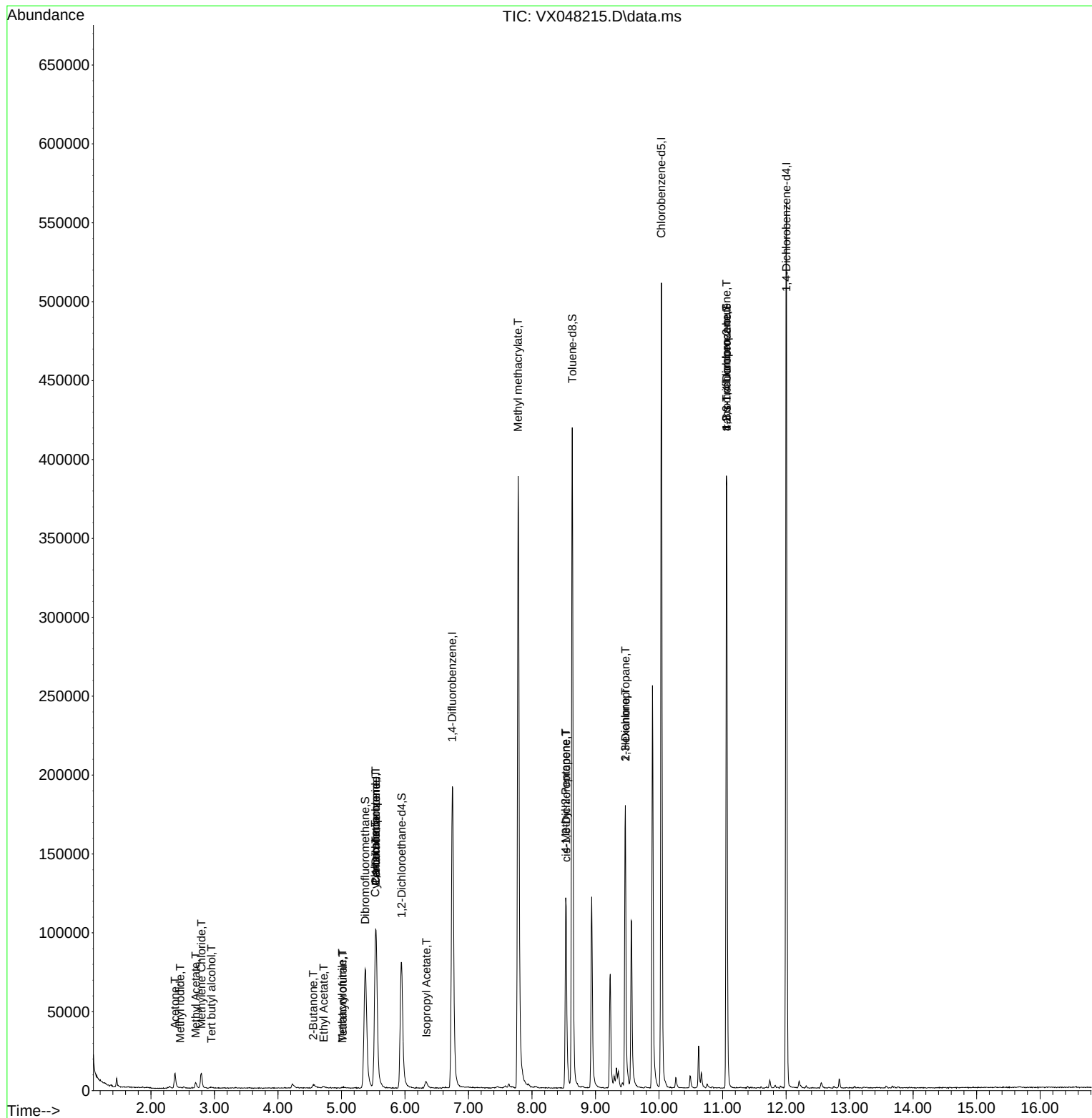
Target Compounds						Qvalue
10) Methyl Iodide	2.459	142	350	0.235	ug/l #	68
11) Tert butyl alcohol	2.953	59	592	5.482	ug/l #	72
16) Acetone	2.380	43	11897	21.428	ug/l #	89
18) Methyl Acetate	2.703	43	5153	4.557	ug/l	97
20) Methylene Chloride	2.794	84	4930	3.645	ug/l	95
25) 2-Butanone	4.556	43	5650	8.735	ug/l #	89
29) Tetrahydrofuran	5.019	42	478	1.258	ug/l #	52
31) Cyclohexane	5.532	56	2037	1.023	ug/l #	1
36) 1,1-Dichloropropene	5.538	75	8389	4.016	ug/l #	50
37) Ethyl Acetate	4.721	43	2218	1.329	ug/l #	82
38) Carbon Tetrachloride	5.538	117	10570	4.409	ug/l #	17
41) Methacrylonitrile	5.013	41	233	0.261	ug/l #	23
43) Isopropyl Acetate	6.336	43	6924	2.471	ug/l #	95
48) Methyl methacrylate	7.781	41	39015	27.197	ug/l #	45
51) 4-Methyl-2-Pentanone	8.531	43	47530	30.480	ug/l #	52
54) cis-1,3-Dichloropropene	8.537	75	22119	8.874	ug/l #	57
57) 1,3-Dichloropropane	9.470	76	1701	0.700	ug/l #	43
59) 2-Hexanone	9.470	43	22610	20.729	ug/l #	58
76) 1,2,3-Trichloropropane	11.061	75	58777	30.843	ug/l #	33
81) trans-1,4-Dichloro-2-b...	11.061	75	58777	75.523	ug/l #	10

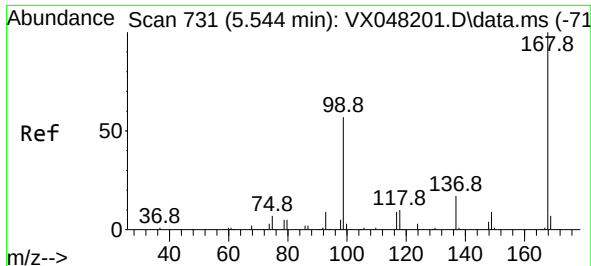
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X101725W.M
Quant Title : SW846 8260
QLast Update : Sat Oct 18 00:06:31 2025
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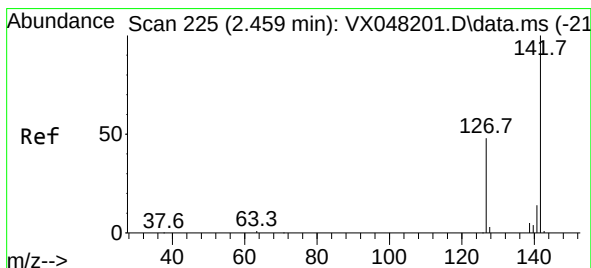
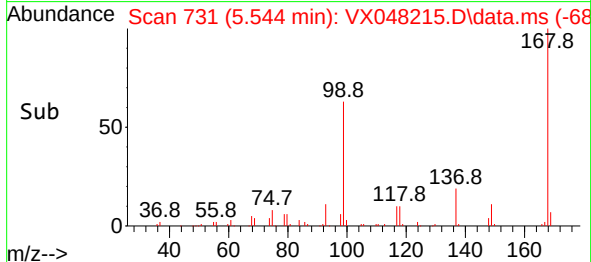
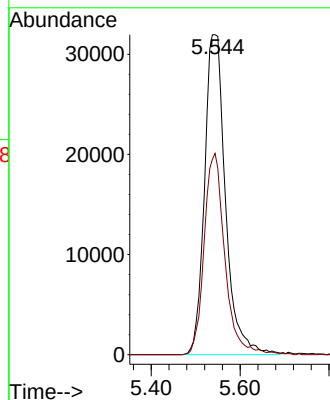
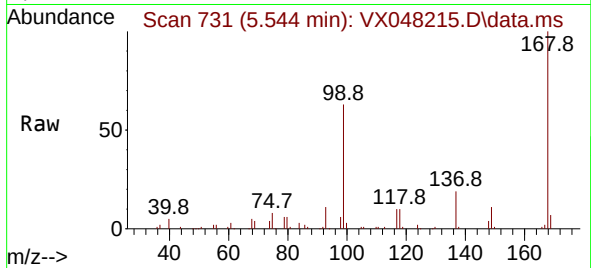




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.000 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

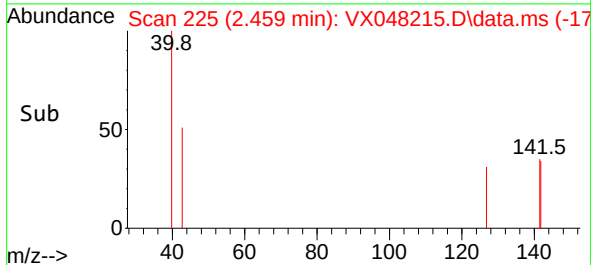
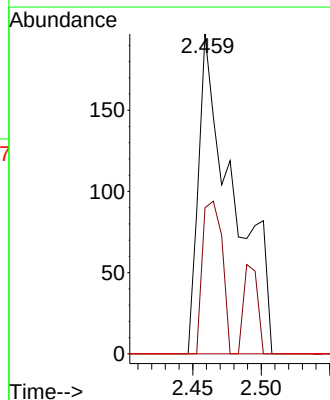
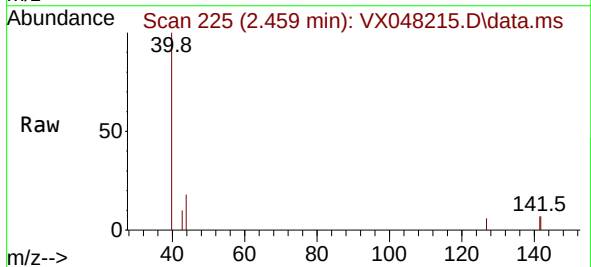
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MSVOA_X
ClientSampleId :
TP-3

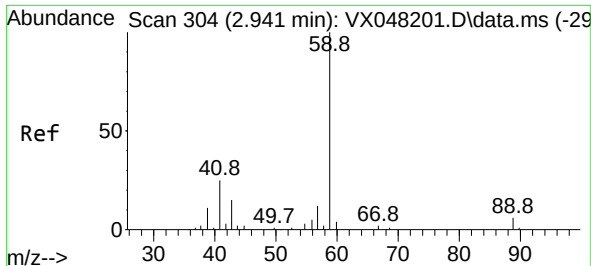
Tgt Ion:168 Resp: 105060
Ion Ratio Lower Upper
168 100
99 62.9 46.4 69.6



#10
Methyl Iodide
Concen: 0.235 ug/l
RT: 2.459 min Scan# 225
Delta R.T. -0.000 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

Tgt Ion:142 Resp: 350
Ion Ratio Lower Upper
142 100
127 26.9 38.5 57.7#
141 0.0 11.6 17.4#





#11

Tert butyl alcohol

Concen: 5.482 ug/l

RT: 2.953 min Scan# 306

Delta R.T. 0.012 min

Lab File: VX048215.D

Acq: 17 Oct 2025 16:13

Instrument :

MSVOA_X

ClientSampleId :

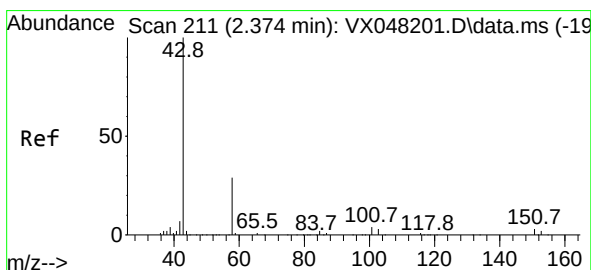
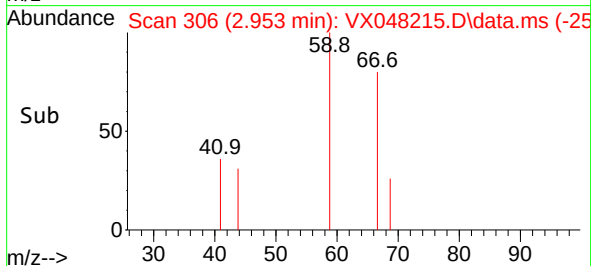
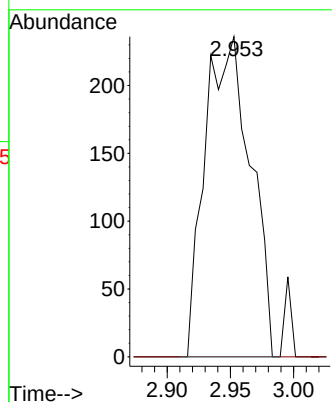
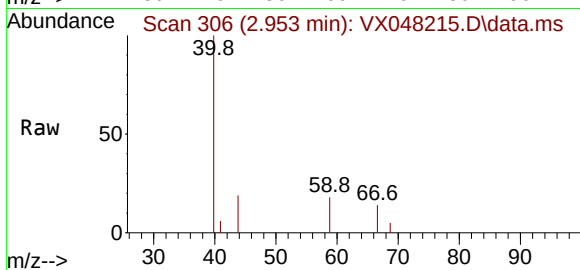
TP-3

Tgt Ion: 59 Resp: 592

Ion Ratio Lower Upper

59 100

57 0.0 8.2 12.4#



#16

Acetone

Concen: 21.428 ug/l

RT: 2.380 min Scan# 212

Delta R.T. 0.006 min

Lab File: VX048215.D

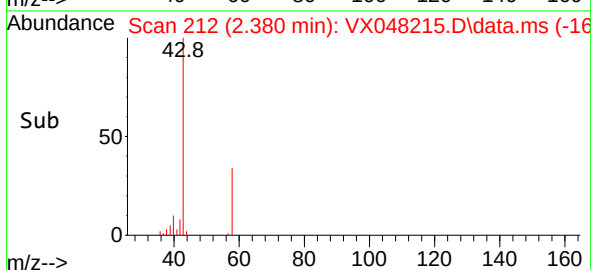
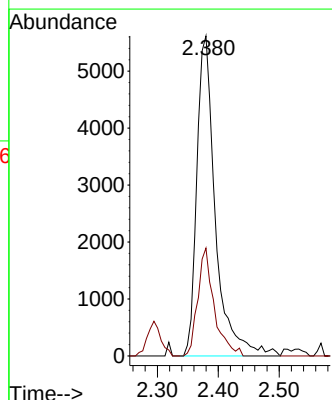
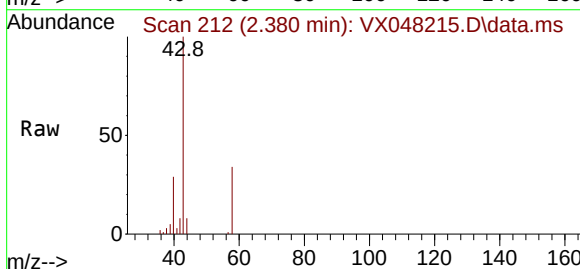
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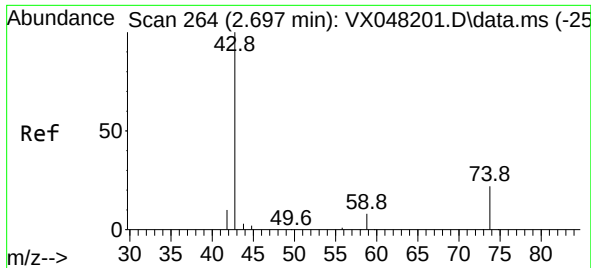
Tgt Ion: 43 Resp: 11897

Ion Ratio Lower Upper

43 100

58 35.4 23.4 35.2#

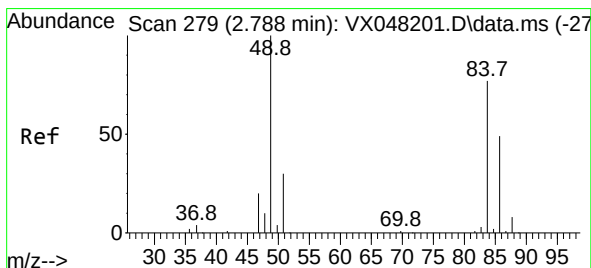
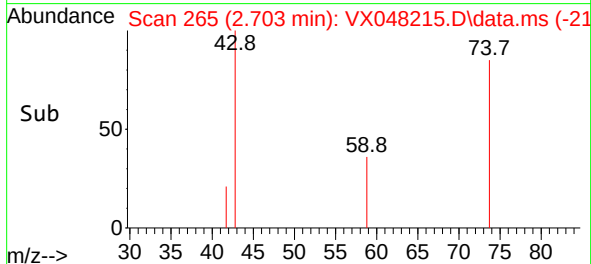
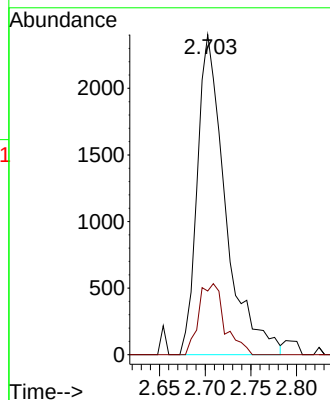
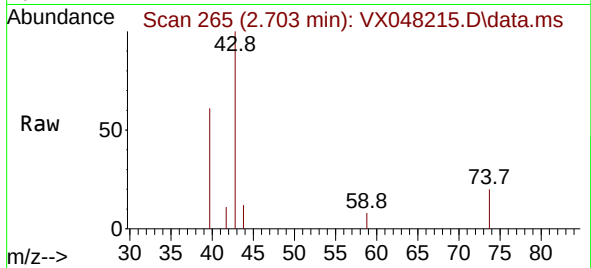




#18
Methyl Acetate
Concen: 4.557 ug/l
RT: 2.703 min Scan# 20
Delta R.T. 0.006 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

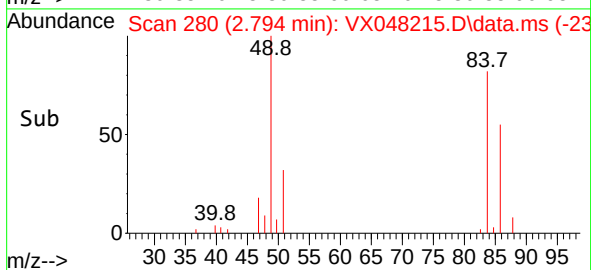
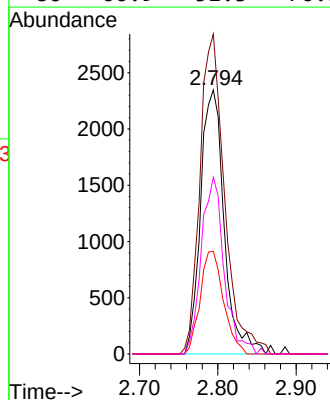
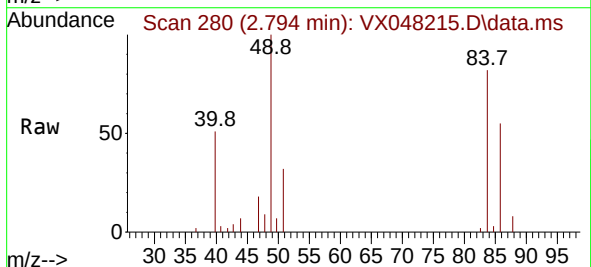
Instrument :
MSVOA_X
ClientSampleId :
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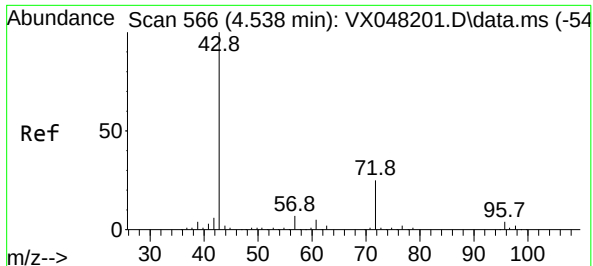
Tgt Ion: 43 Resp: 5153
Ion Ratio Lower Upper
43 100
74 20.4 17.5 26.3



#20
Methylene Chloride
Concen: 3.645 ug/l
RT: 2.794 min Scan# 280
Delta R.T. 0.006 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

Tgt Ion: 84 Resp: 4930
Ion Ratio Lower Upper
84 100
49 121.2 104.1 156.1
51 38.9 31.3 46.9
86 66.9 51.3 76.9





#25

2-Butanone

Concen: 8.735 ug/l

RT: 4.556 min Scan# 5

Delta R.T. 0.018 min

Lab File: VX048215.D

Acq: 17 Oct 2025 16:13

Instrument :

MSVOA_X

ClientSampleId :

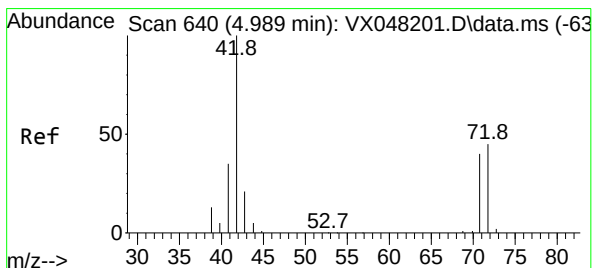
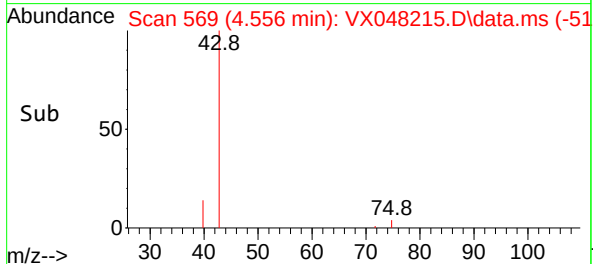
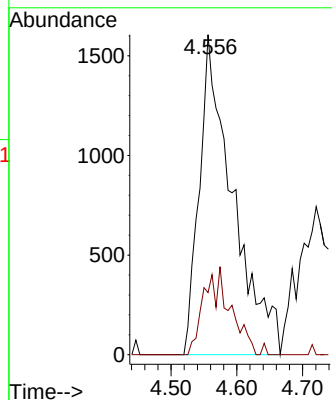
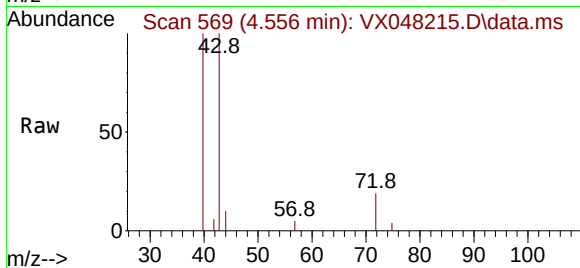
TP-3

Tgt Ion: 43 Resp: 5650

Ion Ratio Lower Upper

43 100

72 19.4 19.9 29.9#



#29

Tetrahydrofuran

Concen: 1.258 ug/l

RT: 5.019 min Scan# 645

Delta R.T. 0.030 min

Lab File: VX048215.D

Acq: 17 Oct 2025 16:13

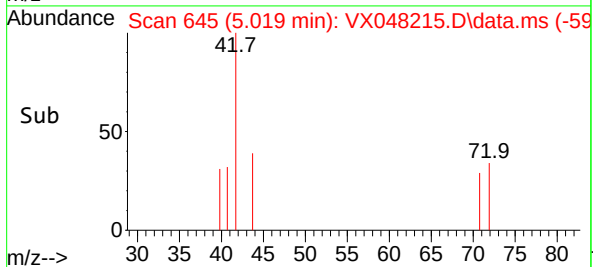
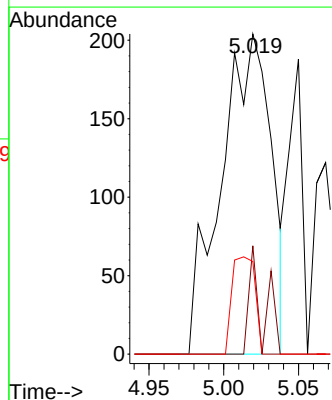
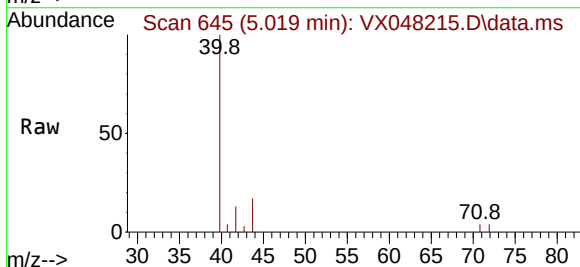
Tgt Ion: 42 Resp: 478

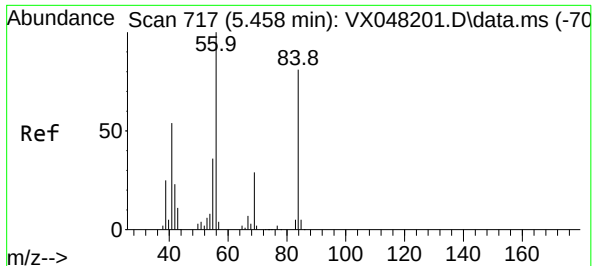
Ion Ratio Lower Upper

42 100

72 9.4 35.3 52.9#

71 13.8 32.2 48.4#

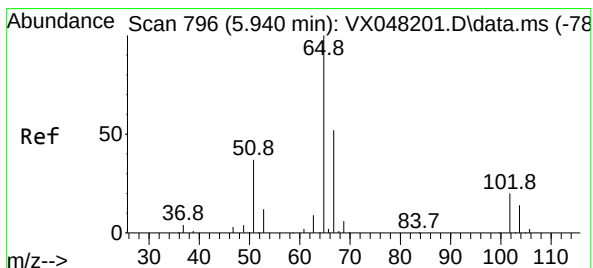
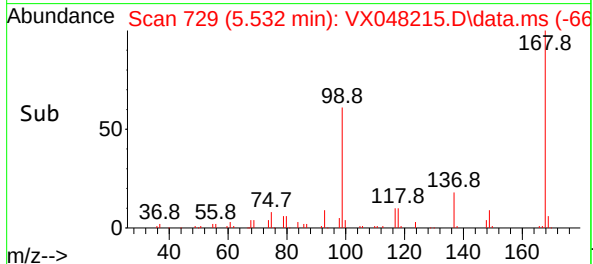
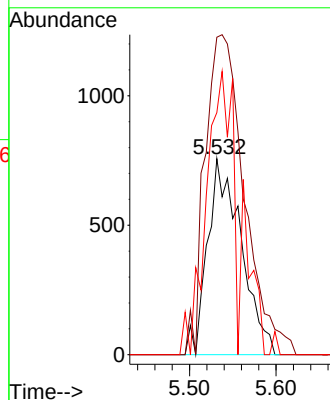
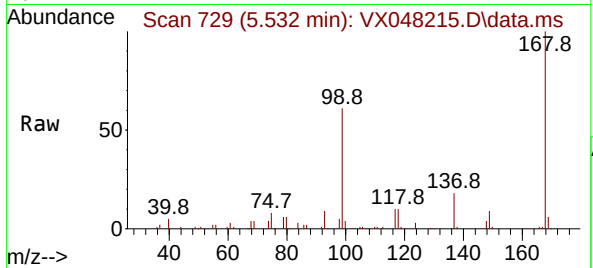




#31
Cyclohexane
Concen: 1.023 ug/l
RT: 5.532 min Scan# 717
Delta R.T. 0.073 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

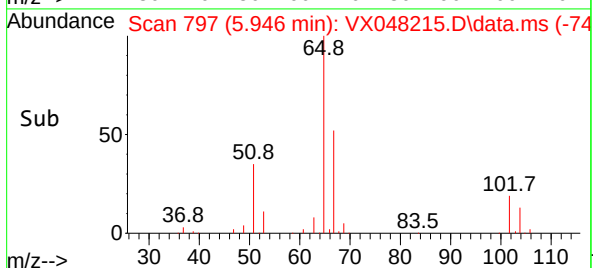
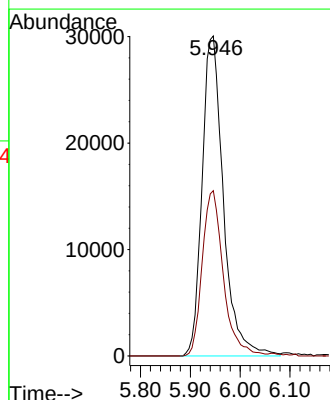
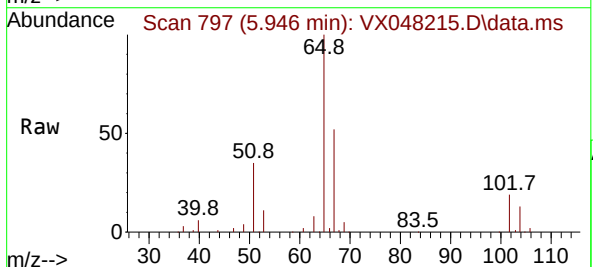
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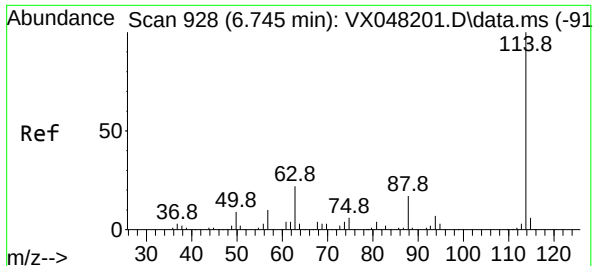
Tgt Ion: 56 Resp: 2037
Ion Ratio Lower Upper
56 100
69 162.0 23.0 34.6#
84 123.5 64.6 97.0#



#33
1,2-Dichloroethane-d4
Concen: 54.745 ug/l
RT: 5.946 min Scan# 797
Delta R.T. 0.006 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

Tgt Ion: 65 Resp: 89102
Ion Ratio Lower Upper
65 100
67 51.3 0.0 105.0

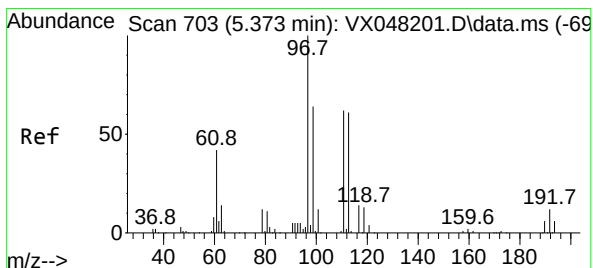
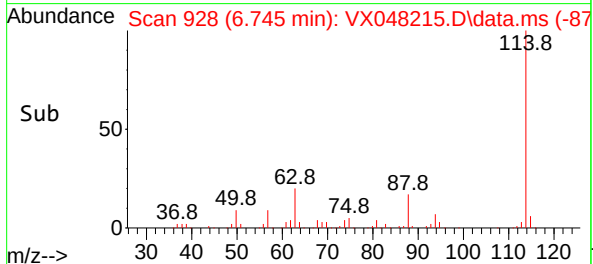
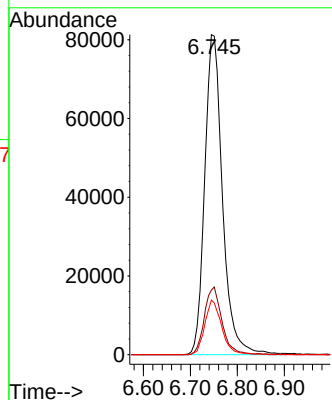
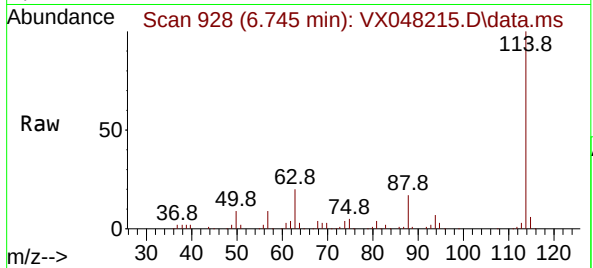




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

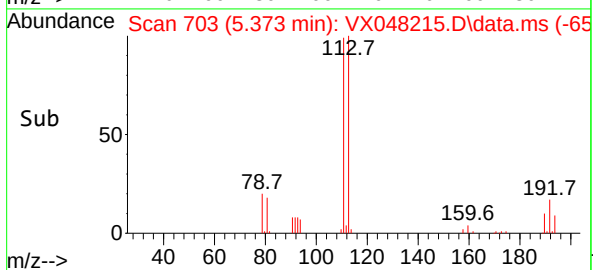
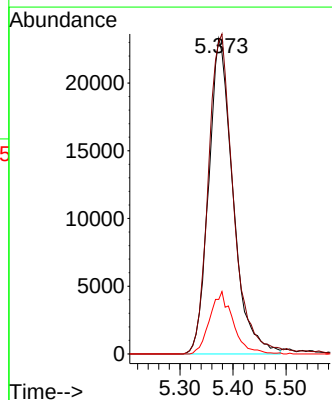
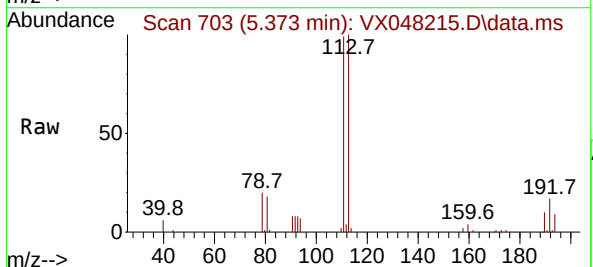
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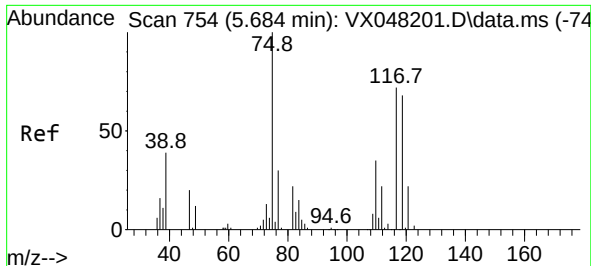
Tgt Ion:114 Resp: 213655
Ion Ratio Lower Upper
114 100
63 20.2 0.0 43.2
88 17.1 0.0 33.6



#35
Dibromofluoromethane
Concen: 50.028 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

Tgt Ion:113 Resp: 74183
Ion Ratio Lower Upper
113 100
111 105.3 82.2 123.4
192 19.0 15.1 22.7

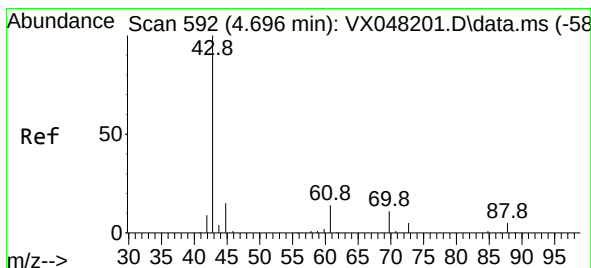
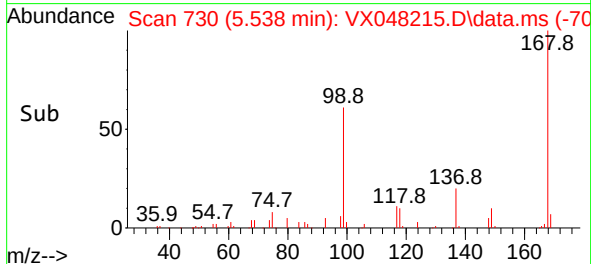
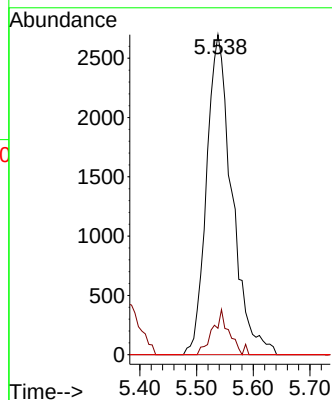
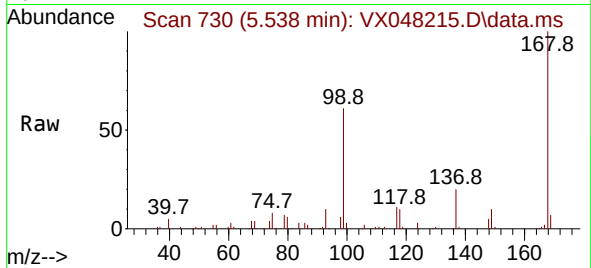




#36
1,1-Dichloropropene
Concen: 4.016 ug/l
RT: 5.538 min Scan# 71
Delta R.T. -0.146 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

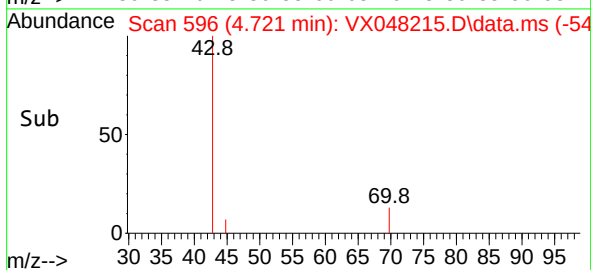
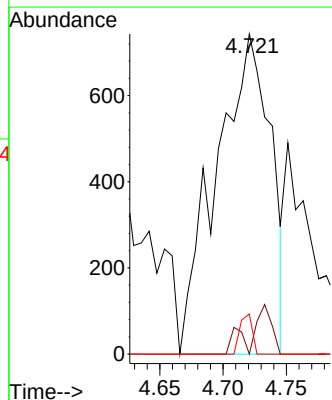
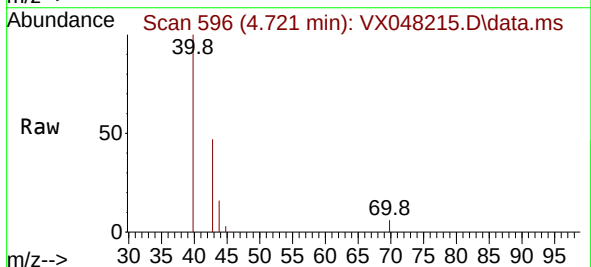
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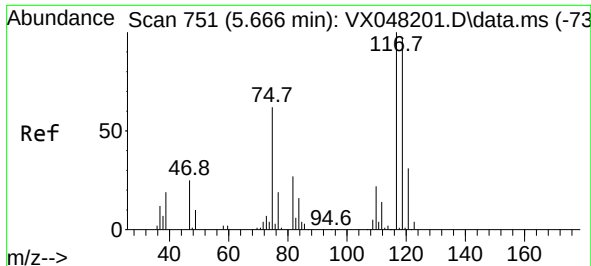
Tgt Ion: 75 Resp: 8389
Ion Ratio Lower Upper
75 100
110 8.8 17.7 53.1#
77 0.0 24.3 36.5#



#37
Ethyl Acetate
Concen: 1.329 ug/l
RT: 4.721 min Scan# 596
Delta R.T. 0.024 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

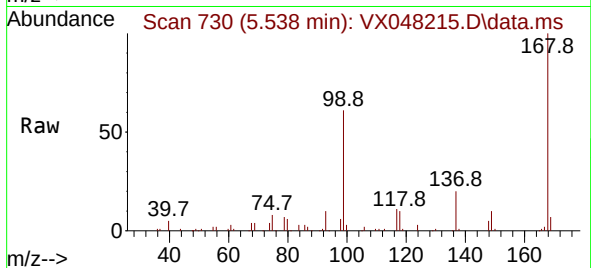
Tgt Ion: 43 Resp: 2218
Ion Ratio Lower Upper
43 100
61 6.1 10.6 15.8#
70 2.8 7.8 11.6#



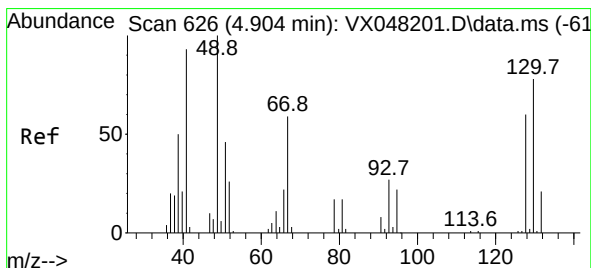
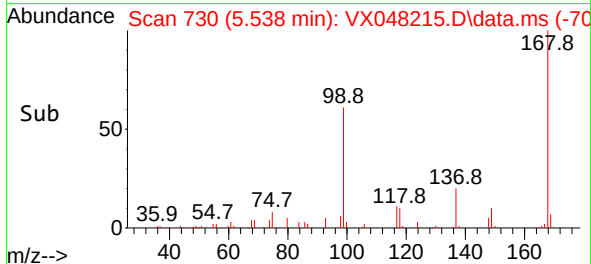
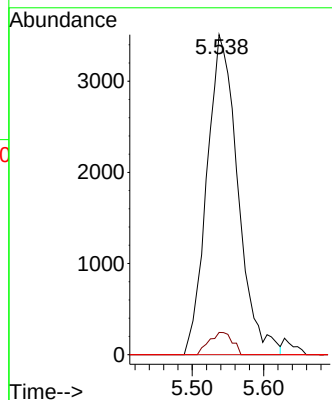


#38
Carbon Tetrachloride
Concen: 4.409 ug/l
RT: 5.538 min Scan# 711
Delta R.T. -0.128 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

Instrument :
MSVOA_X
ClientSampleId :
TP-3

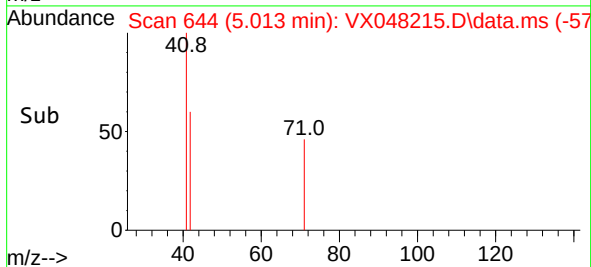
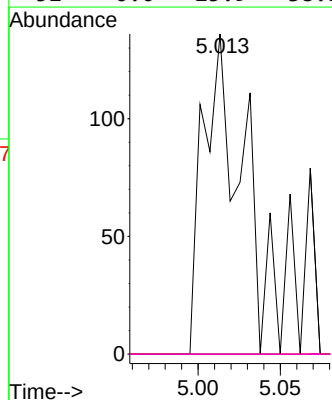
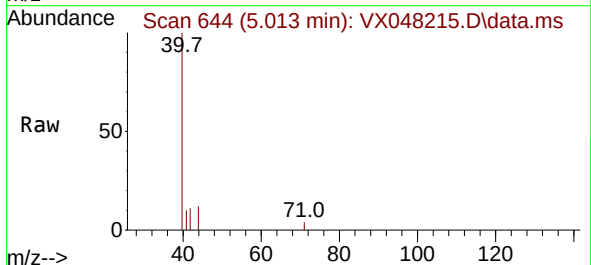


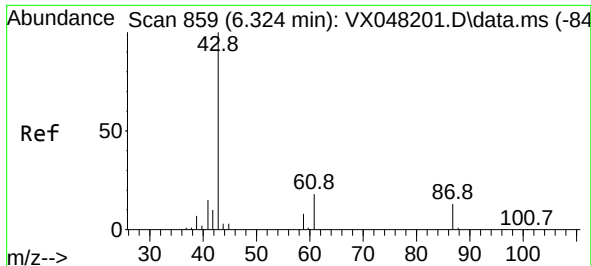
Tgt Ion:117 Resp: 10570
Ion Ratio Lower Upper
117 100
119 7.0 77.2 115.8#
121 0.0 24.8 37.2#



#41
Methacrylonitrile
Concen: 0.261 ug/l
RT: 5.013 min Scan# 644
Delta R.T. 0.110 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

Tgt Ion: 41 Resp: 233
Ion Ratio Lower Upper
41 100
39 0.0 44.0 66.0#
67 0.0 58.7 88.1#
52 0.0 25.9 38.9#

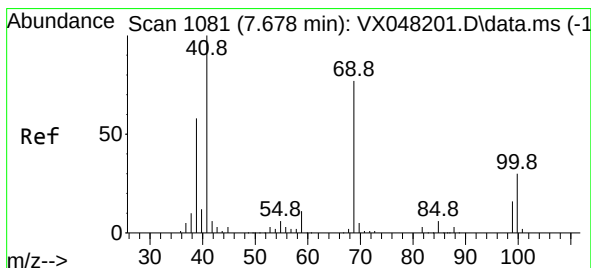
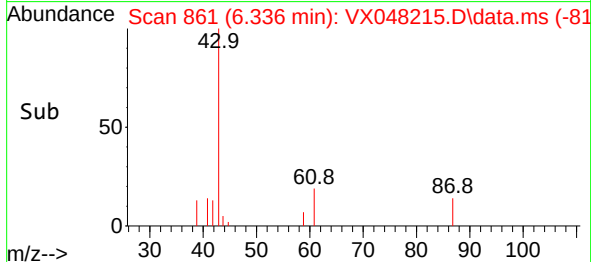
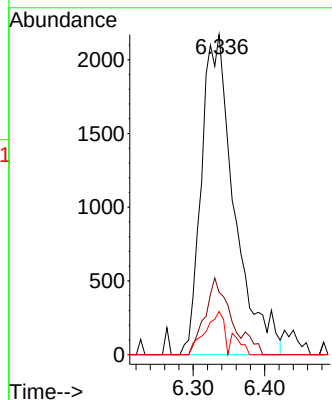
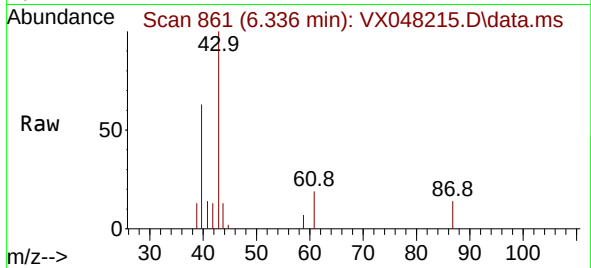




#43
Isopropyl Acetate
Concen: 2.471 ug/l
RT: 6.336 min Scan# 80
Delta R.T. 0.012 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

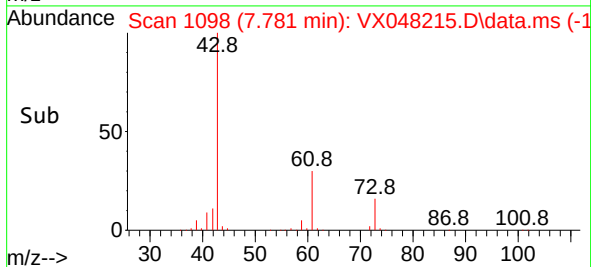
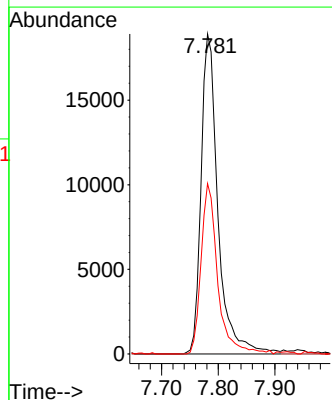
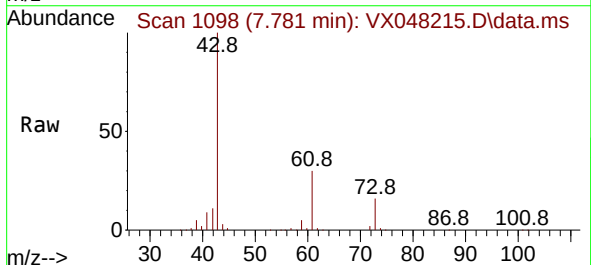
Instrument :
MSVOA_X
ClientSampleId :
TP-3

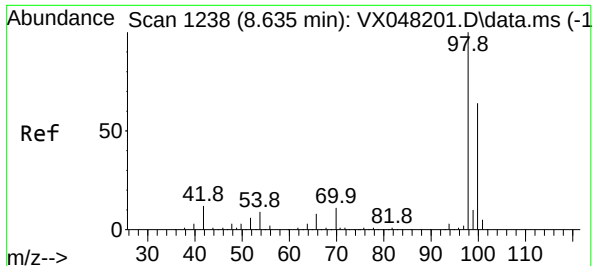
Tgt Ion: 43 Resp: 6924
Ion Ratio Lower Upper
43 100
61 19.5 14.9 22.3
87 7.7 9.4 14.2#



#48
Methyl methacrylate
Concen: 27.197 ug/l
RT: 7.781 min Scan# 1098
Delta R.T. 0.104 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

Tgt Ion: 41 Resp: 39015
Ion Ratio Lower Upper
41 100
69 0.0 63.4 95.0#
39 52.5 47.1 70.7

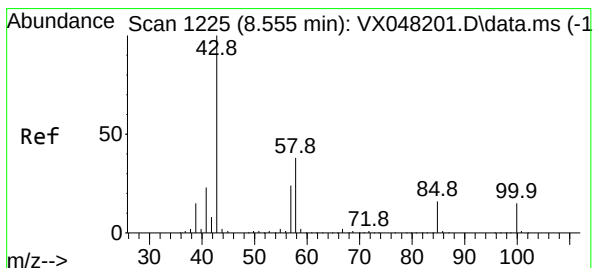
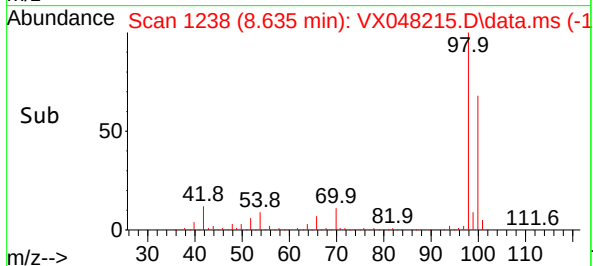
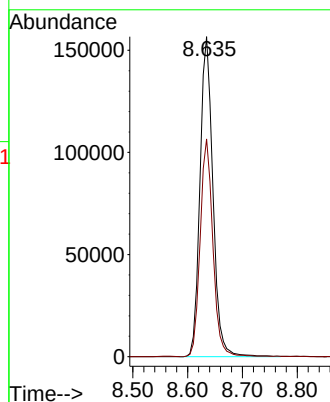
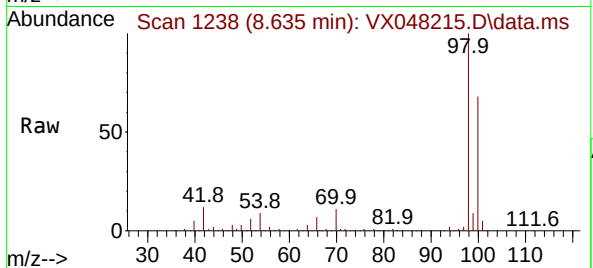




#50
Toluene-d8
Concen: 48.151 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

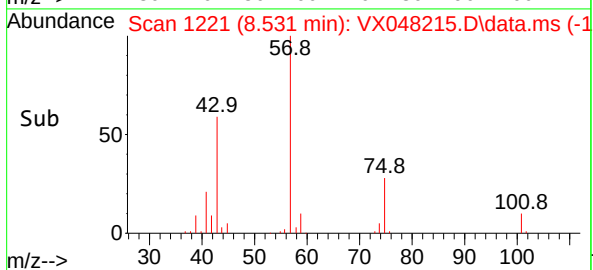
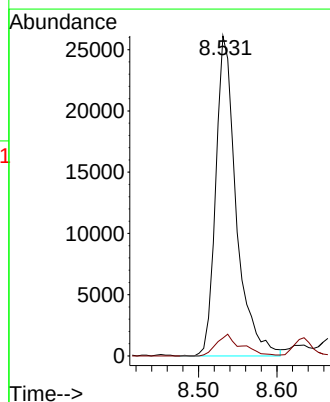
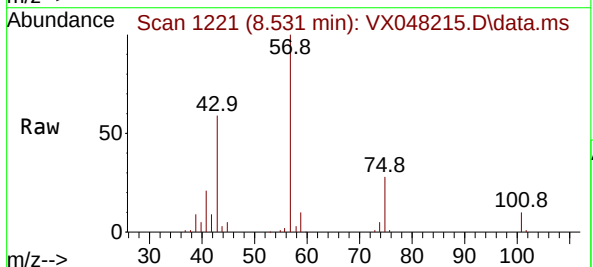
Instrument :
MSVOA_X
ClientSampleId :
TP-3

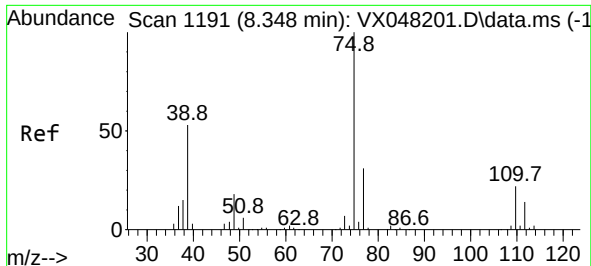
Tgt Ion: 98 Resp: 257222
Ion Ratio Lower Upper
98 100
100 67.2 53.0 79.4



#51
4-Methyl-2-Pentanone
Concen: 30.480 ug/l
RT: 8.531 min Scan# 1221
Delta R.T. -0.024 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

Tgt Ion: 43 Resp: 47530
Ion Ratio Lower Upper
43 100
58 8.2 29.5 44.3#

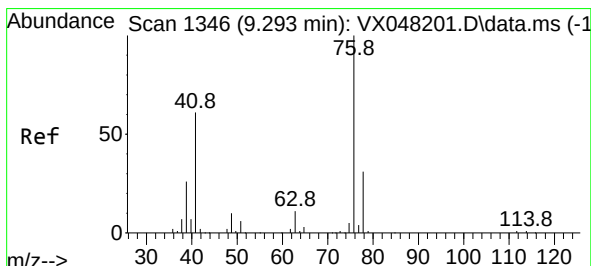
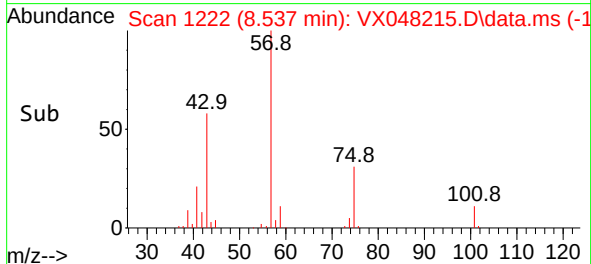
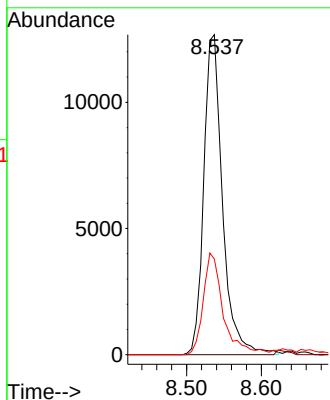
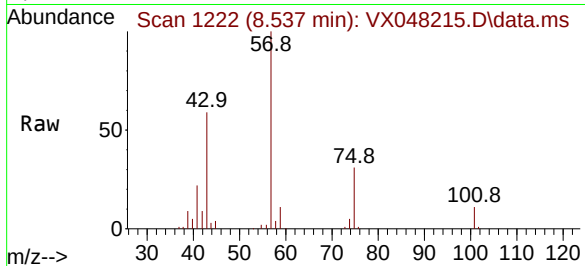




#54
 cis-1,3-Dichloropropene
 Concen: 8.874 ug/l
 RT: 8.537 min Scan# 1191
 Delta R.T. 0.189 min
 Lab File: VX048215.D
 Acq: 17 Oct 2025 16:13

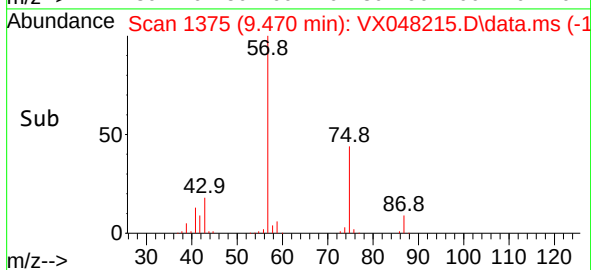
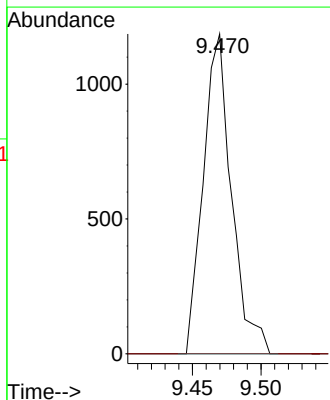
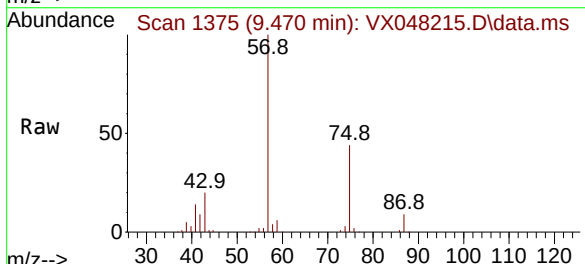
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-3

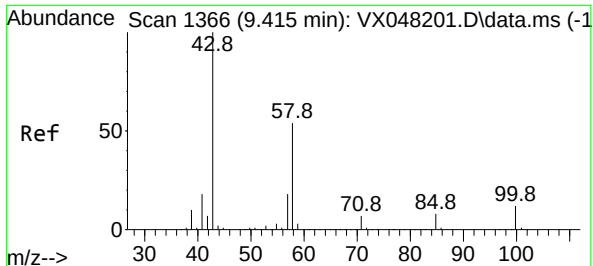
Tgt Ion: 75 Resp: 22119
 Ion Ratio Lower Upper
 75 100
 77 0.0 24.9 37.3#
 39 28.6 42.6 64.0#



#57
 1,3-Dichloropropane
 Concen: 0.700 ug/l
 RT: 9.470 min Scan# 1375
 Delta R.T. 0.177 min
 Lab File: VX048215.D
 Acq: 17 Oct 2025 16:13

Tgt Ion: 76 Resp: 1701
 Ion Ratio Lower Upper
 76 100
 78 0.0 25.4 38.0#

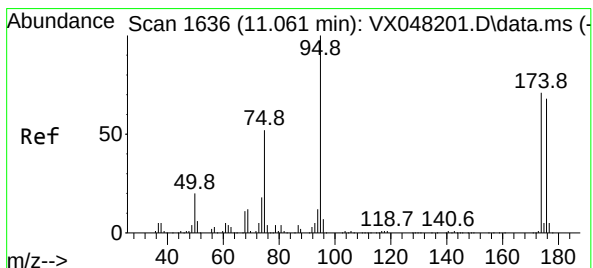
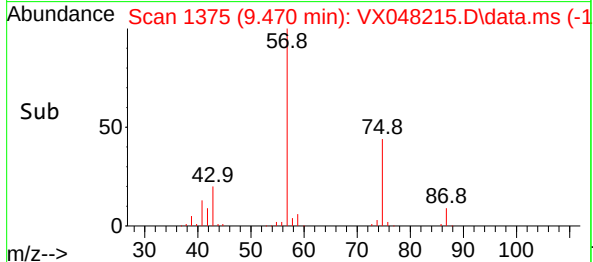
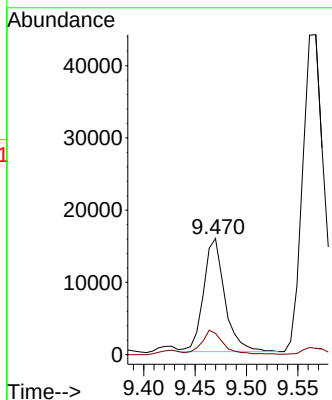
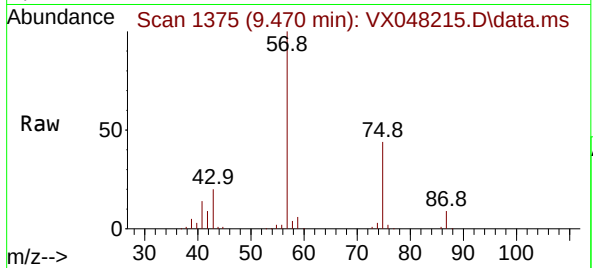




#59
2-Hexanone
Concen: 20.729 ug/l
RT: 9.470 min Scan# 11
Delta R.T. 0.055 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

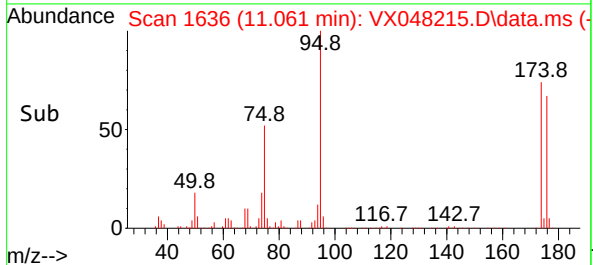
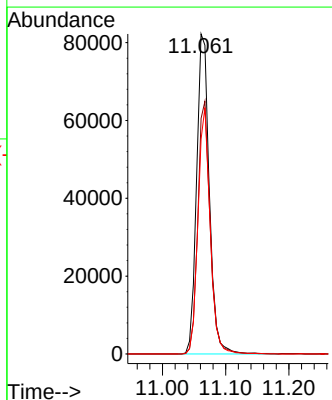
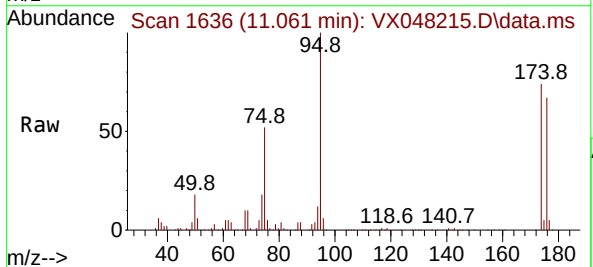
Instrument :
MSVOA_X
ClientSampleId :
TP-3

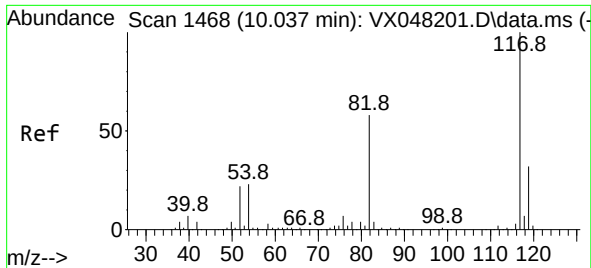
Tgt Ion: 43 Resp: 22610
Ion Ratio Lower Upper
43 100
58 22.5 26.3 78.8#



#62
4-Bromofluorobenzene
Concen: 59.355 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

Tgt Ion: 95 Resp: 115487
Ion Ratio Lower Upper
95 100
174 76.1 0.0 147.8
176 73.7 0.0 142.8

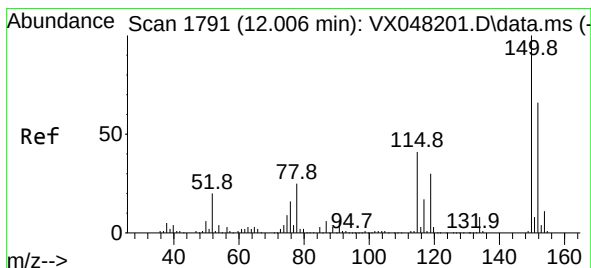
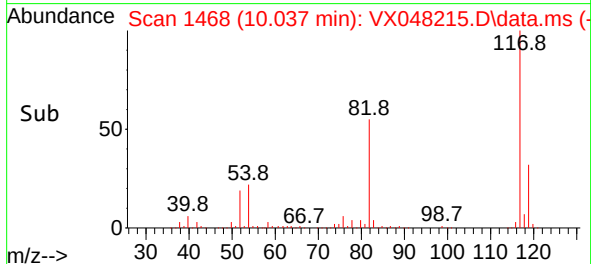
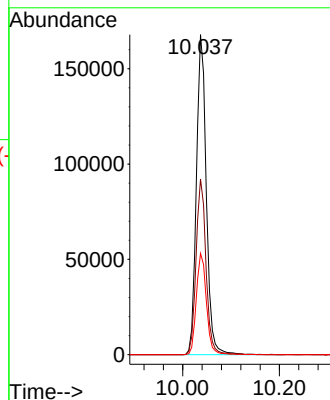
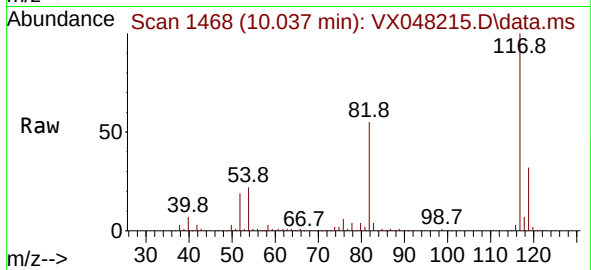




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

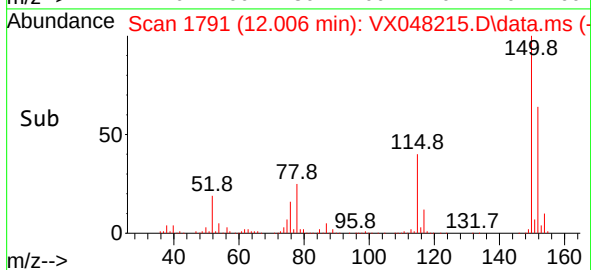
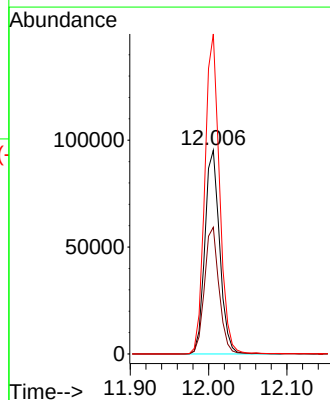
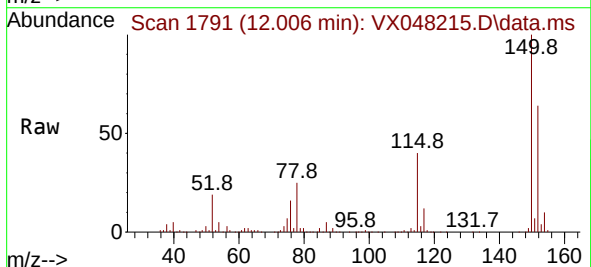
Instrument :
MSVOA_X
ClientSampleId :
TP-3

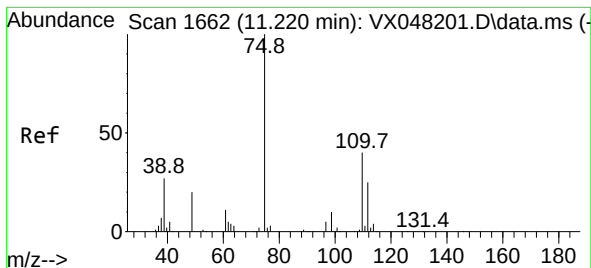
Tgt Ion:117 Resp: 237995
Ion Ratio Lower Upper
117 100
82 54.9 46.5 69.7
119 31.6 25.9 38.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX048215.D
Acq: 17 Oct 2025 16:13

Tgt Ion:152 Resp: 124797
Ion Ratio Lower Upper
152 100
115 61.5 43.1 129.4
150 155.6 0.0 353.0





#76

1,2,3-Trichloropropane

Concen: 30.843 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX048215.D

Acq: 17 Oct 2025 16:13

Instrument :

MSVOA_X

ClientSampleId :

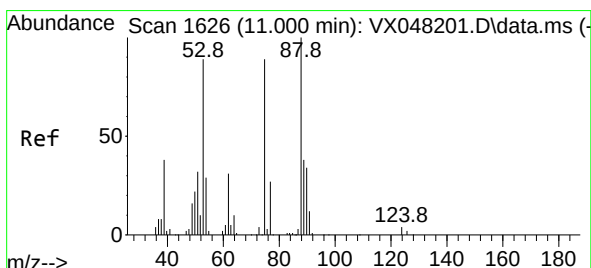
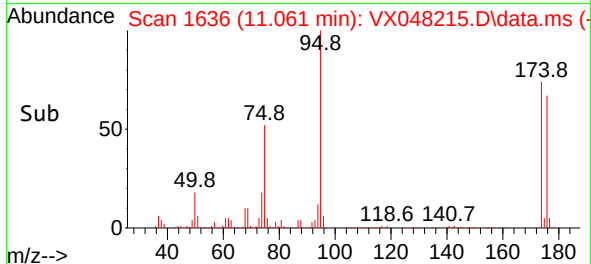
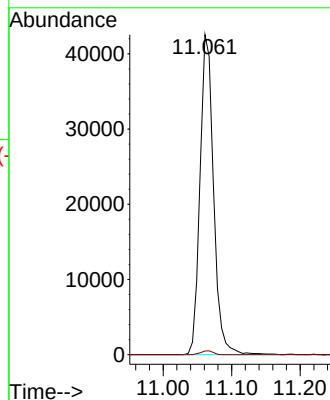
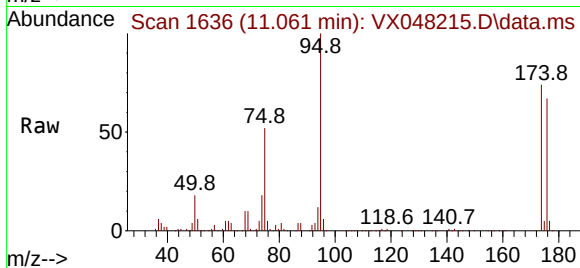
TP-3

Tgt Ion: 75 Resp: 58777

Ion Ratio Lower Upper

75 100

77 1.1 22.4 67.2#



#81

trans-1,4-Dichloro-2-butene

Concen: 75.523 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.061 min

Lab File: VX048215.D

Acq: 17 Oct 2025 16:13

Tgt Ion: 75 Resp: 58777

Ion Ratio Lower Upper

75 100

53 0.0 79.5 119.3#

89 0.0 36.8 55.2#

