

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX040825\
 Data File : VX045659.D
 Acq On : 08 Apr 2025 17:54
 Operator : JC/MD
 Sample : Q1743-04
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 26 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-16

Quant Time: Apr 09 01:43:16 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X040225W.M
 Quant Title : SW846 8260
 QLast Update : Wed Apr 02 03:11:43 2025
 Response via : Initial Calibration

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

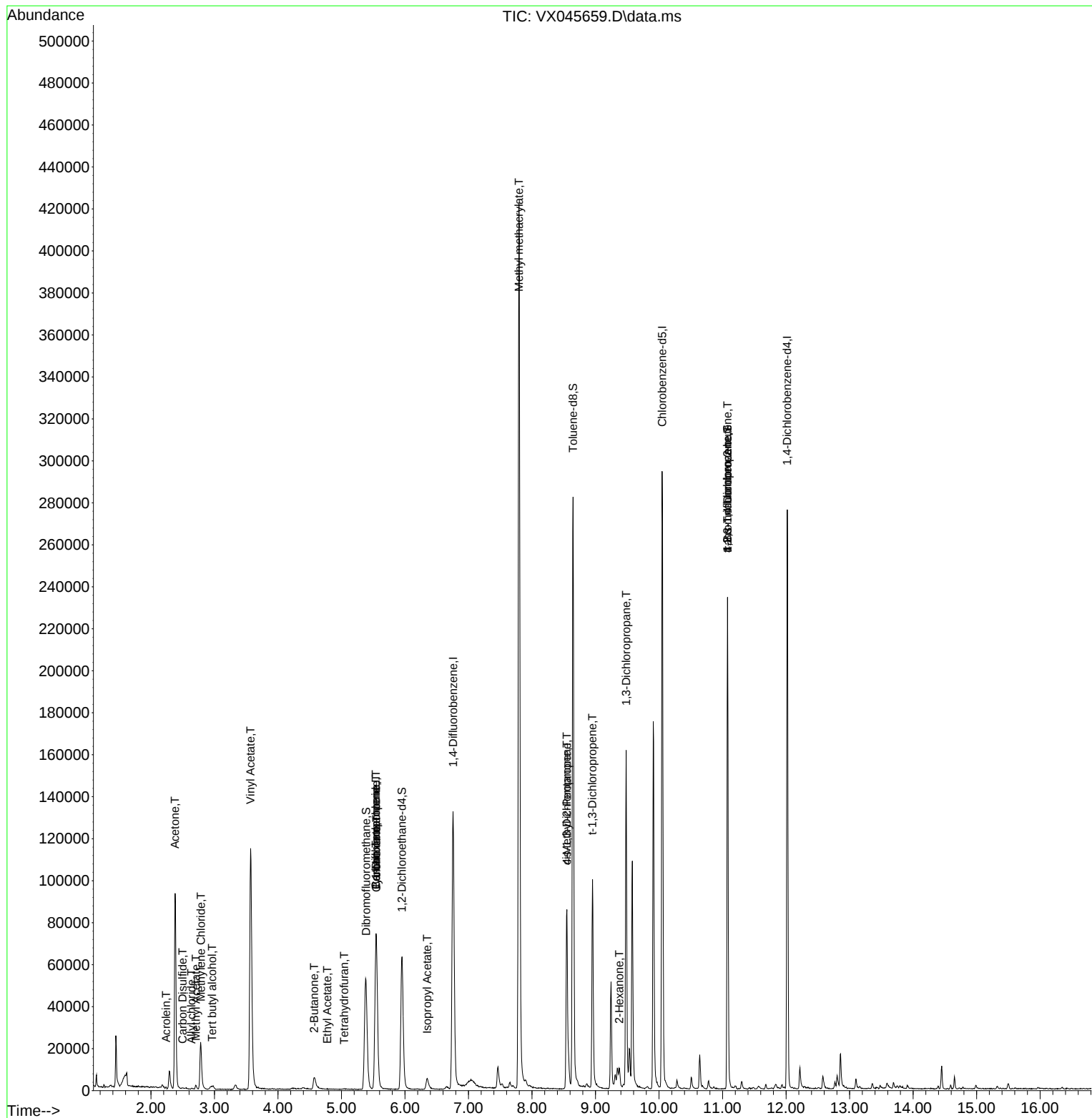
Internal Standards						
1) Pentafluorobenzene	5.544	168	61974	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.757	114	128932	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.049	117	119271	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	50866	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.952	65	65097	57.438	ug/l	0.00
Spiked Amount	50.000	Range	74 - 125	Recovery	= 114.880%	
35) Dibromofluoromethane	5.385	113	46589	50.930	ug/l	0.00
Spiked Amount	50.000	Range	75 - 124	Recovery	= 101.860%	
50) Toluene-d8	8.647	98	163095	51.080	ug/l	0.00
Spiked Amount	50.000	Range	86 - 113	Recovery	= 102.160%	
62) 4-Bromofluorobenzene	11.079	95	59663	51.300	ug/l	0.00
Spiked Amount	50.000	Range	77 - 121	Recovery	= 102.600%	
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	2.965	59	1300	8.535	ug/l	98
13) Acrolein	2.239	56	285	1.359	ug/l #	81
14) Allyl chloride	2.636	41	543	0.385	ug/l #	41
16) Acetone	2.380	43	101259	217.582	ug/l	99
17) Carbon Disulfide	2.495	76	473	0.257	ug/l #	76
18) Methyl Acetate	2.709	43	2160	2.016	ug/l #	90
20) Methylene Chloride	2.788	84	10515	12.069	ug/l	97
23) Vinyl Acetate	3.568	43	1946	0.810	ug/l #	74
25) 2-Butanone	4.568	43	11599	17.027	ug/l #	90
29) Tetrahydrofuran	5.044	42	154	0.349	ug/l #	35
31) Cyclohexane	5.550	56	2021	1.454	ug/l #	48
36) 1,1-Dichloropropene	5.544	75	6091	4.931	ug/l #	46
37) Ethyl Acetate	4.776	43	386	0.248	ug/l #	71
38) Carbon Tetrachloride	5.544	117	7789	5.835	ug/l #	15
43) Isopropyl Acetate	6.348	43	7832	3.320	ug/l	98
48) Methyl methacrylate	7.793	41	43002	35.304	ug/l #	50
51) 4-Methyl-2-Pentanone	8.549	43	39191	25.060	ug/l #	46
53) t-1,3-Dichloropropene	8.952	75	199	2.426	ug/l #	43
54) cis-1,3-Dichloropropene	8.549	75	13318	9.822	ug/l #	66
57) 1,3-Dichloropropane	9.482	76	1331	0.840	ug/l #	42
59) 2-Hexanone	9.372	43	9265	8.000	ug/l #	28
76) 1,2,3-Trichloropropane	11.079	75	34399	27.725	ug/l #	37
81) trans-1,4-Dichloro-2-b...	11.079	75	34399	94.094	ug/l #	1

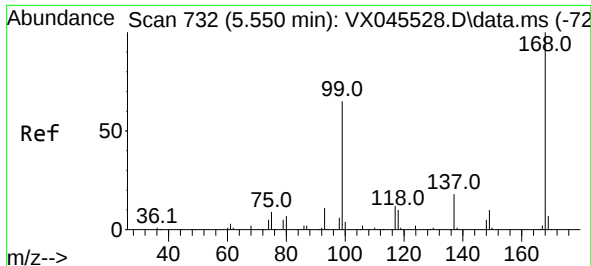
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration

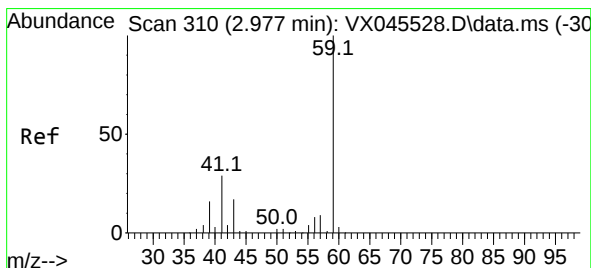
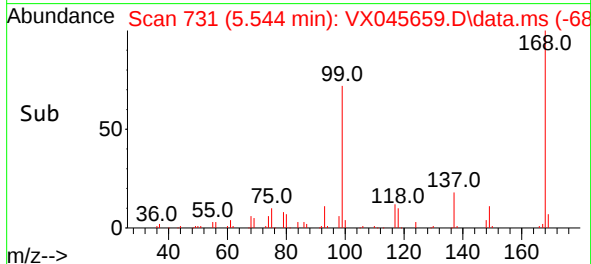
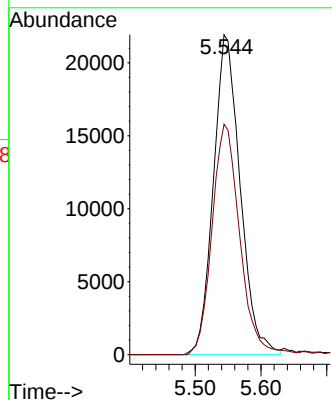
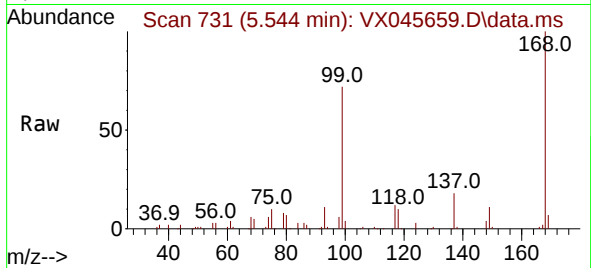




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.544 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

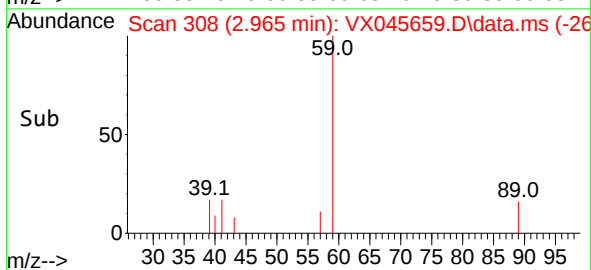
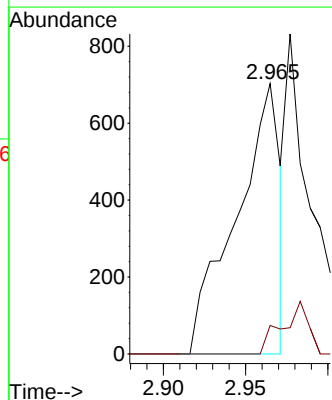
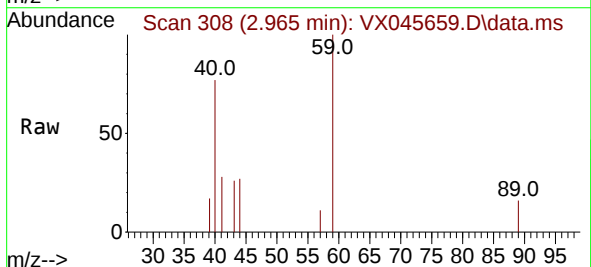
Instrument :
MSVOA_X
ClientSampleId :
TP-16

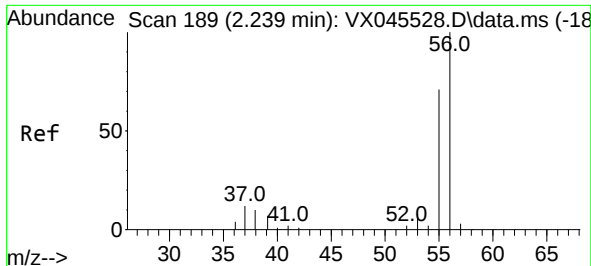
Tgt Ion:168 Resp: 61974
Ion Ratio Lower Upper
168 100
99 72.0 52.3 78.5



#11
Tert butyl alcohol
Concen: 8.535 ug/l
RT: 2.965 min Scan# 308
Delta R.T. -0.012 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

Tgt Ion: 59 Resp: 1300
Ion Ratio Lower Upper
59 100
57 11.5 8.6 12.8





#13

Acrolein

Concen: 1.359 ug/l

RT: 2.239 min Scan# 11

Delta R.T. 0.000 min

Lab File: VX045659.D

Acq: 08 Apr 2025 17:54

Instrument :

MSVOA_X

ClientSampleId :

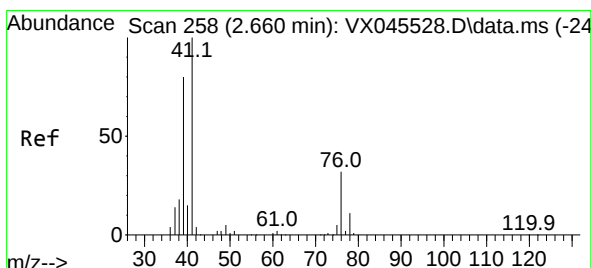
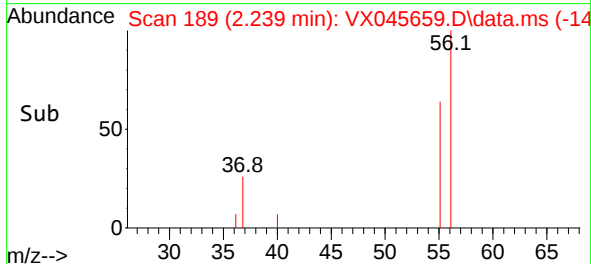
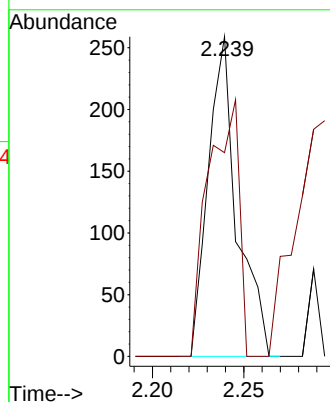
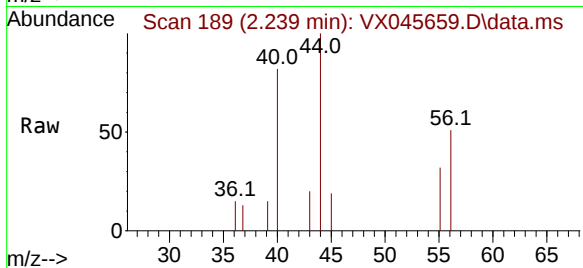
TP-16

Tgt Ion: 56 Resp: 285

Ion Ratio Lower Upper

56 100

55 86.0 56.2 84.2#



#14

Allyl chloride

Concen: 0.385 ug/l

RT: 2.636 min Scan# 254

Delta R.T. -0.024 min

Lab File: VX045659.D

Acq: 08 Apr 2025 17:54

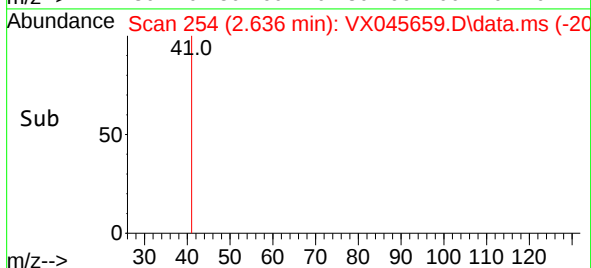
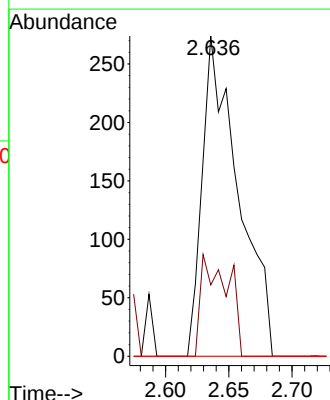
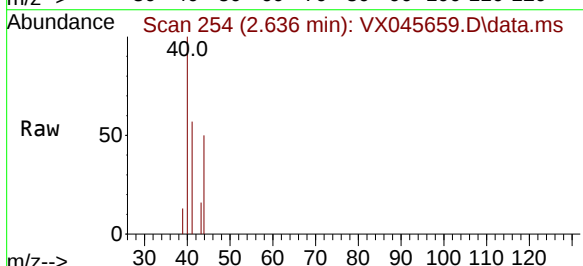
Tgt Ion: 41 Resp: 543

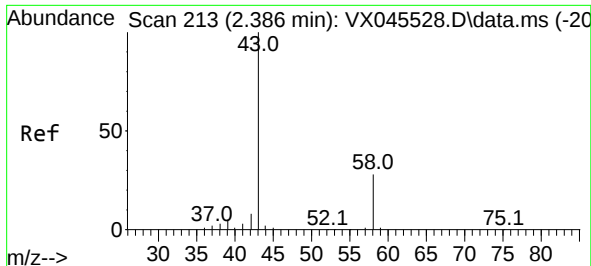
Ion Ratio Lower Upper

41 100

39 23.6 60.2 90.2#

76 0.0 24.6 36.8#

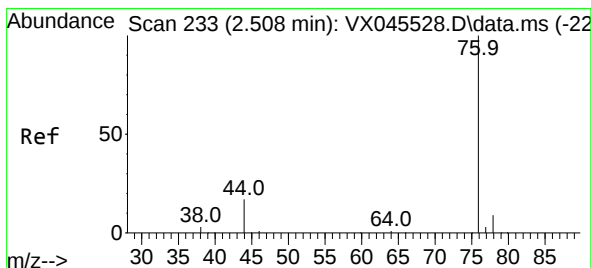
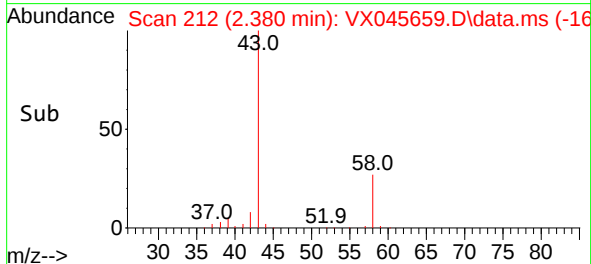
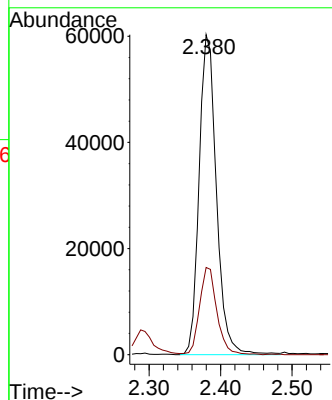
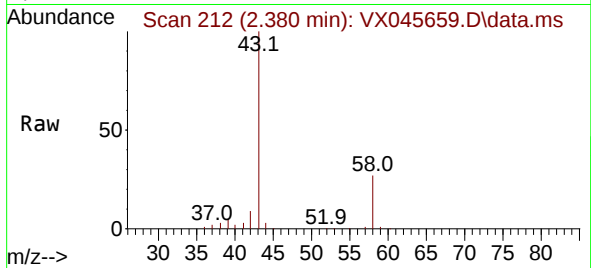




#16
Acetone
Concen: 217.582 ug/l
RT: 2.380 min Scan# 21
Delta R.T. -0.006 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

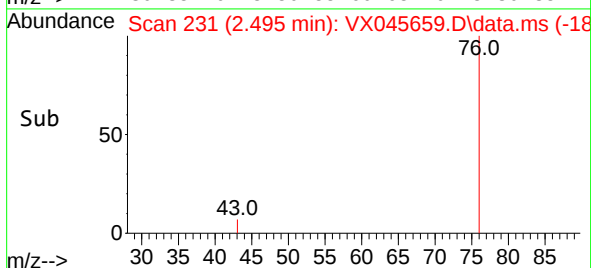
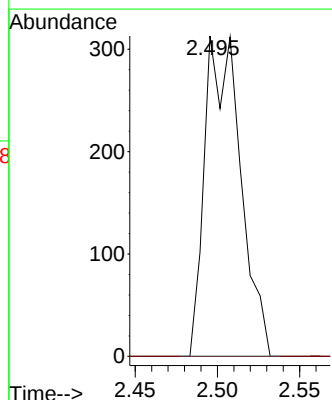
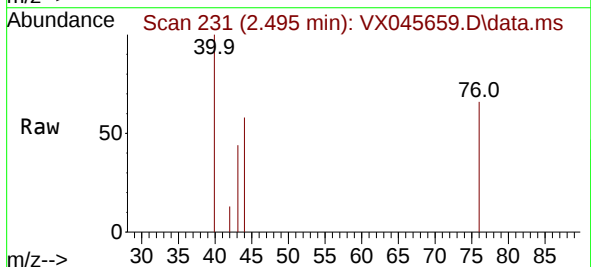
Instrument :
MSVOA_X
ClientSampleId :
TP-16

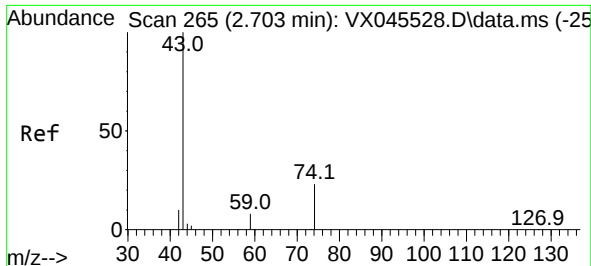
Tgt Ion: 43 Resp: 101259
Ion Ratio Lower Upper
43 100
58 27.1 22.3 33.5



#17
Carbon Disulfide
Concen: 0.257 ug/l
RT: 2.495 min Scan# 231
Delta R.T. -0.012 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

Tgt Ion: 76 Resp: 473
Ion Ratio Lower Upper
76 100
78 0.0 7.0 10.6#

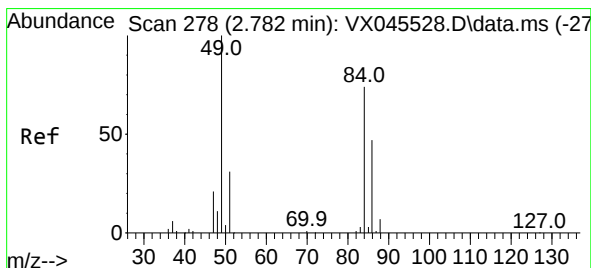
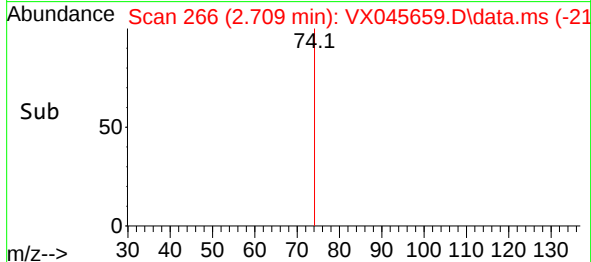
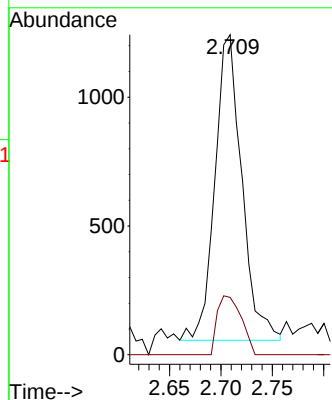
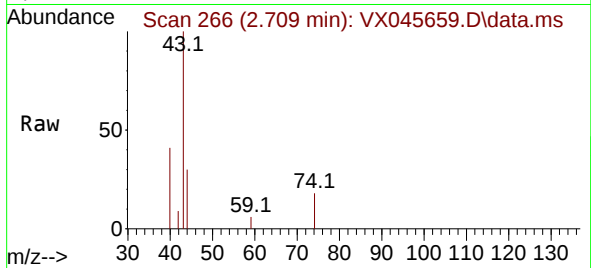




#18
Methyl Acetate
Concen: 2.016 ug/l
RT: 2.709 min Scan# 216
Delta R.T. 0.006 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

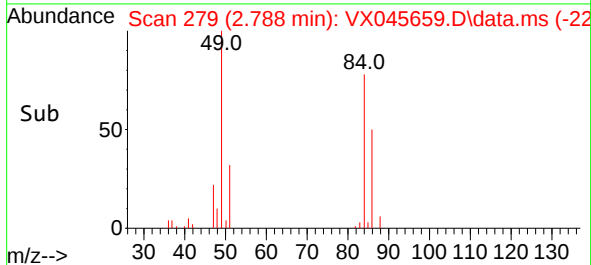
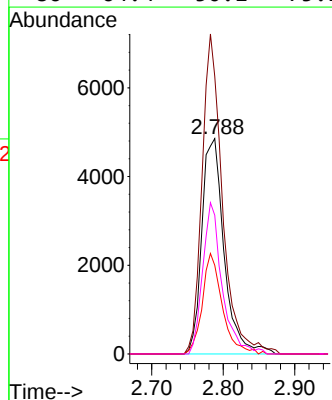
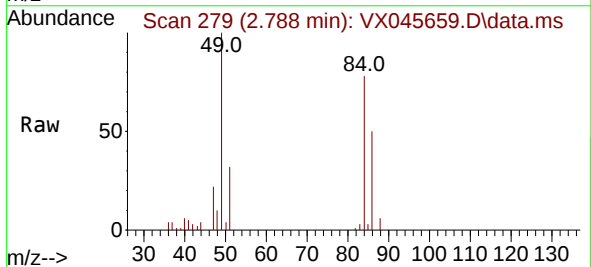
Instrument :
MSVOA_X
ClientSampleId :
TP-16

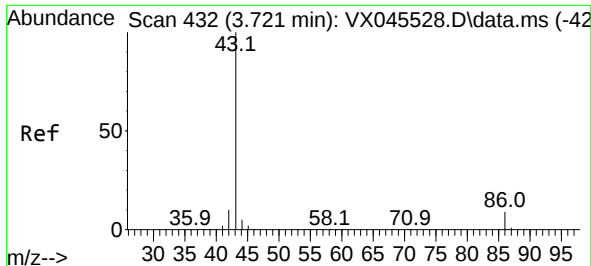
Tgt Ion: 43 Resp: 2160
Ion Ratio Lower Upper
43 100
74 17.1 17.5 26.3#



#20
Methylene Chloride
Concen: 12.069 ug/l
RT: 2.788 min Scan# 279
Delta R.T. 0.006 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

Tgt Ion: 84 Resp: 10515
Ion Ratio Lower Upper
84 100
49 128.9 107.5 161.3
51 41.2 33.0 49.6
86 64.4 50.1 75.1

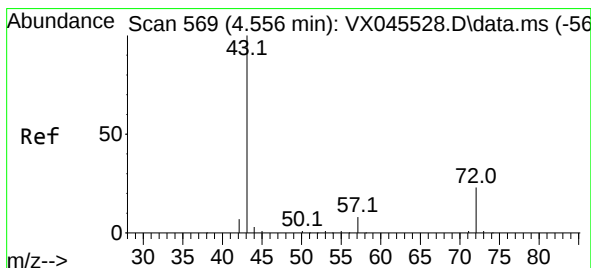
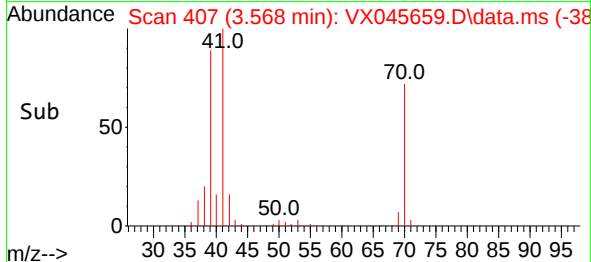
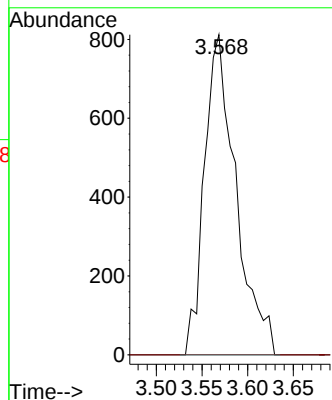
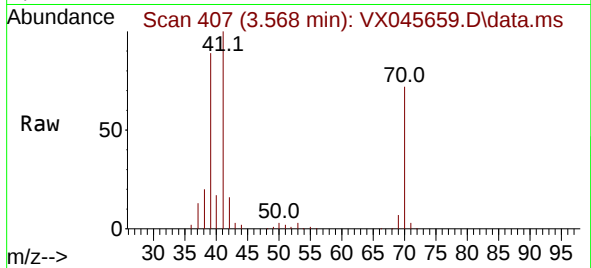




#23
 Vinyl Acetate
 Concen: 0.810 ug/l
 RT: 3.568 min Scan# 407
 Delta R.T. -0.152 min
 Lab File: VX045659.D
 Acq: 08 Apr 2025 17:54

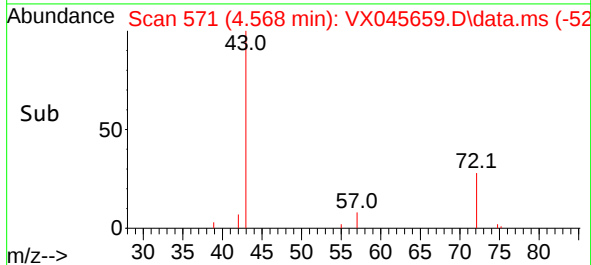
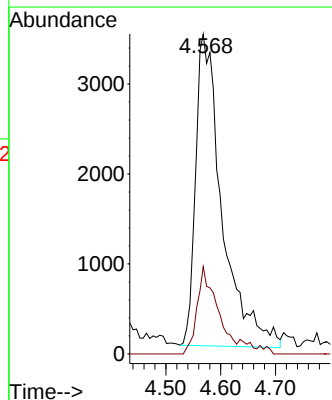
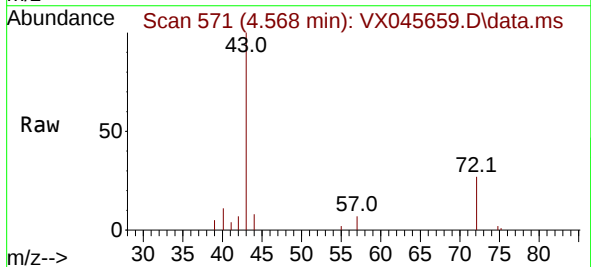
Instrument :
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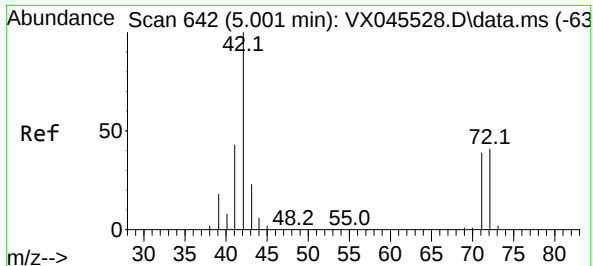
Tgt Ion: 43 Resp: 1946
 Ion Ratio Lower Upper
 43 100
 86 0.0 7.5 11.3#



#25
 2-Butanone
 Concen: 17.027 ug/l
 RT: 4.568 min Scan# 571
 Delta R.T. 0.012 min
 Lab File: VX045659.D
 Acq: 08 Apr 2025 17:54

Tgt Ion: 43 Resp: 11599
 Ion Ratio Lower Upper
 43 100
 72 28.1 18.6 28.0#





#29

Tetrahydrofuran

Concen: 0.349 ug/l

RT: 5.044 min Scan# 642

Delta R.T. 0.043 min

Lab File: VX045659.D

Acq: 08 Apr 2025 17:54

Instrument :

MSVOA_X

ClientSampleId :

TP-16

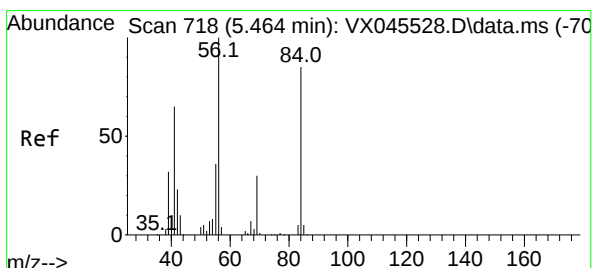
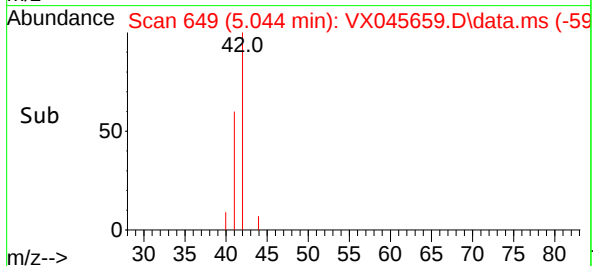
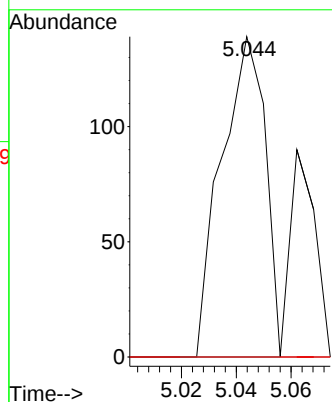
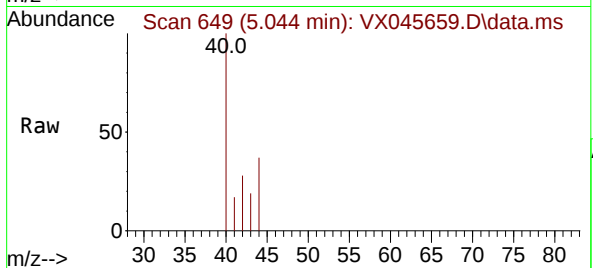
Tgt Ion: 42 Resp: 154

Ion Ratio Lower Upper

42 100

72 0.0 33.4 50.0#

71 0.0 31.4 47.0#



#31

Cyclohexane

Concen: 1.454 ug/l

RT: 5.550 min Scan# 732

Delta R.T. 0.085 min

Lab File: VX045659.D

Acq: 08 Apr 2025 17:54

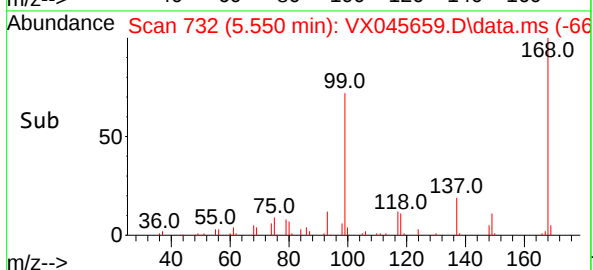
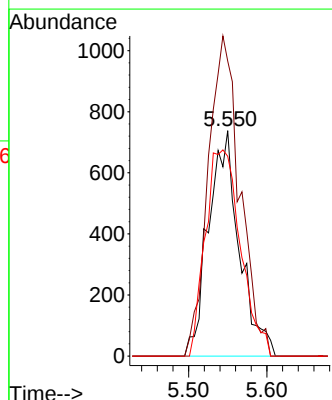
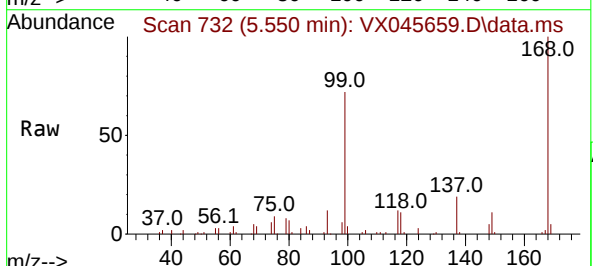
Tgt Ion: 56 Resp: 2021

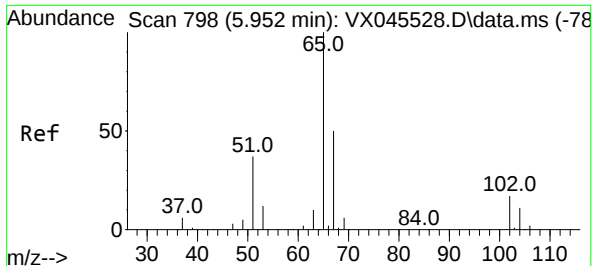
Ion Ratio Lower Upper

56 100

69 130.9 23.6 35.4#

84 88.6 67.7 101.5





#33

1,2-Dichloroethane-d4

Concen: 57.438 ug/l

RT: 5.952 min Scan# 798

Delta R.T. 0.000 min

Lab File: VX045659.D

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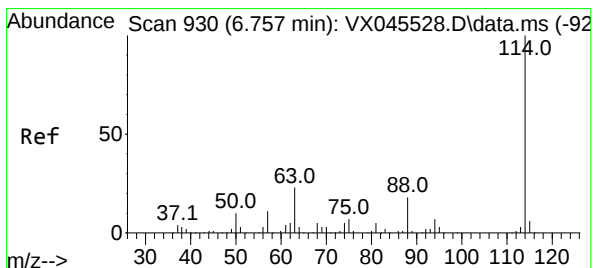
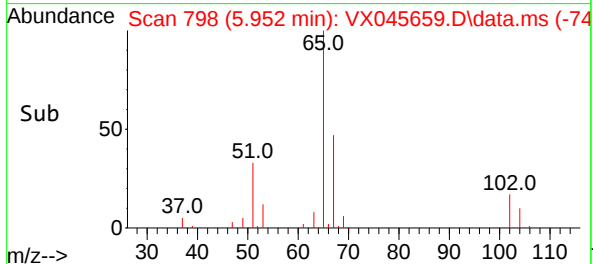
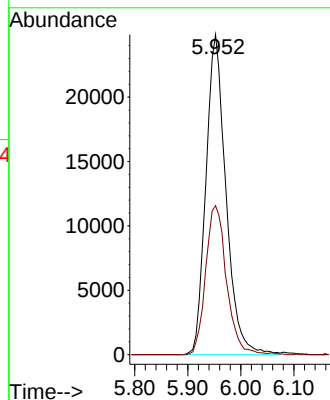
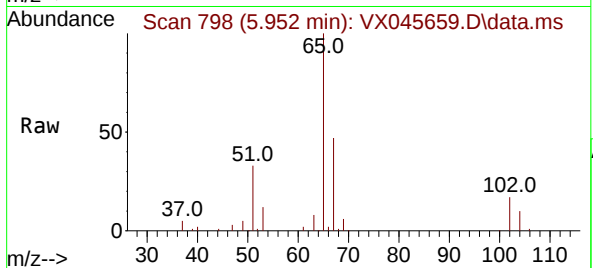
TP-16

Tgt Ion: 65 Resp: 65097

Ion Ratio Lower Upper

65 100

67 48.5 0.0 99.0



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.757 min Scan# 930

Delta R.T. 0.000 min

Lab File: VX045659.D

Acq: 08 Apr 2025 17:54

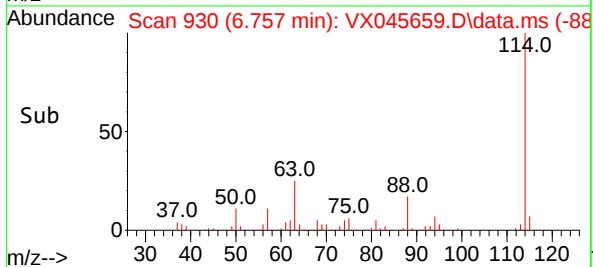
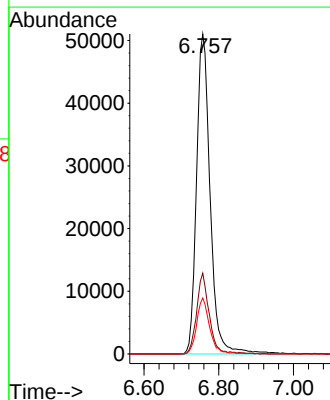
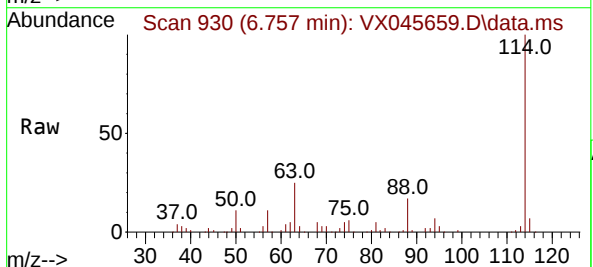
Tgt Ion: 114 Resp: 128932

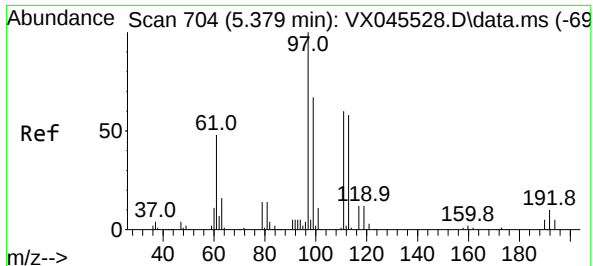
Ion Ratio Lower Upper

114 100

63 25.3 0.0 46.8

88 17.5 0.0 35.4

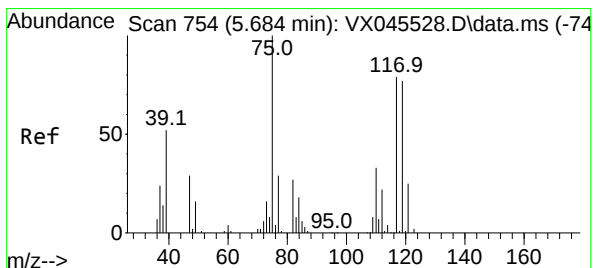
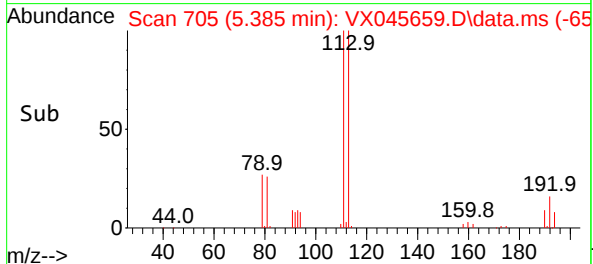
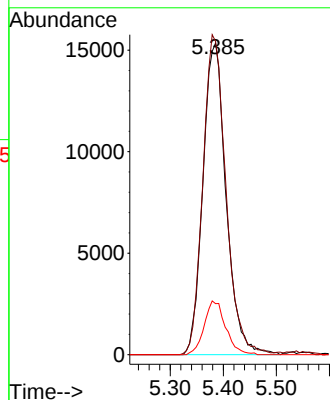
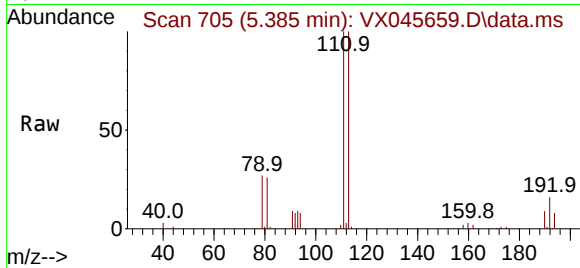




#35
Dibromofluoromethane
Concen: 50.930 ug/l
RT: 5.385 min Scan# 704
Delta R.T. 0.006 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

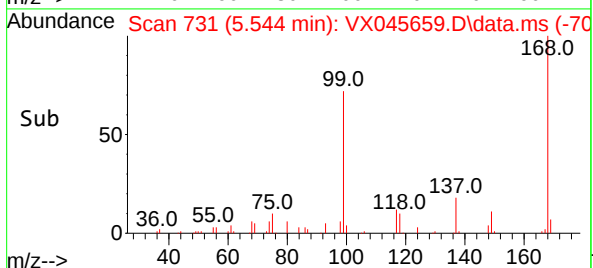
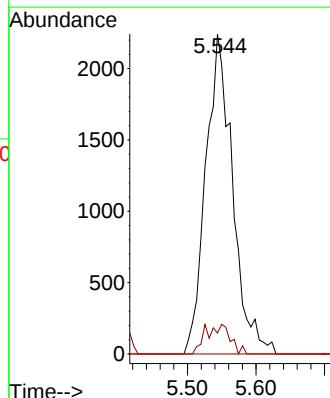
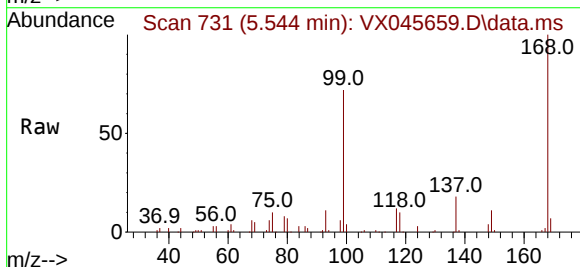
Instrument :
MSVOA_X
ClientSampleId :
TP-16

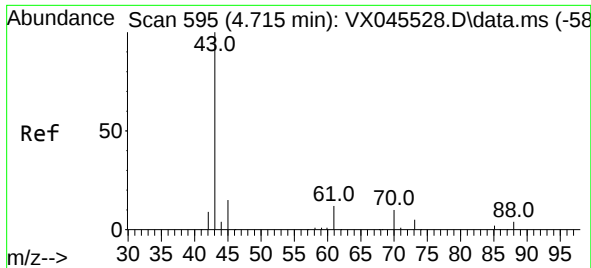
Tgt Ion:113 Resp: 46589
Ion Ratio Lower Upper
113 100
111 102.1 81.8 122.6
192 16.0 13.8 20.6



#36
1,1-Dichloropropene
Concen: 4.931 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

Tgt Ion: 75 Resp: 6091
Ion Ratio Lower Upper
75 100
110 3.9 16.9 50.6#
77 0.0 25.0 37.4#





#37

Ethyl Acetate

Concen: 0.248 ug/l

RT: 4.776 min Scan# 605

Delta R.T. 0.061 min

Lab File: VX045659.D

Acq: 08 Apr 2025 17:54

Instrument :

MSVOA_X

ClientSampleId :

TP-16

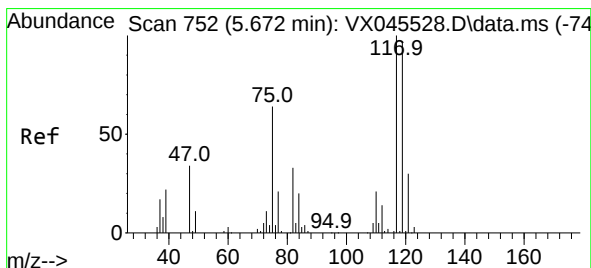
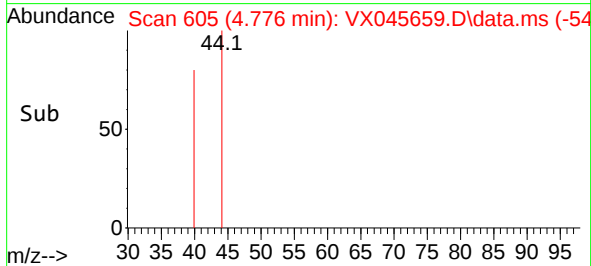
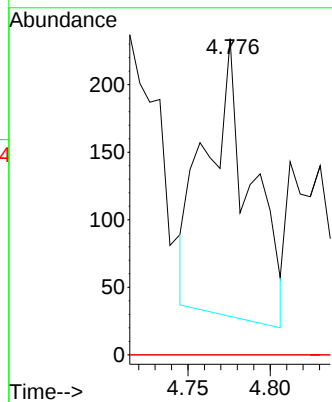
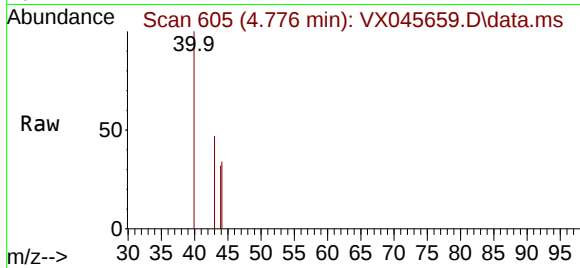
Tgt Ion: 43 Resp: 386

Ion Ratio Lower Upper

43 100

61 0.0 9.9 14.9#

70 0.0 7.5 11.3#



#38

Carbon Tetrachloride

Concen: 5.835 ug/l

RT: 5.544 min Scan# 731

Delta R.T. -0.128 min

Lab File: VX045659.D

Acq: 08 Apr 2025 17:54

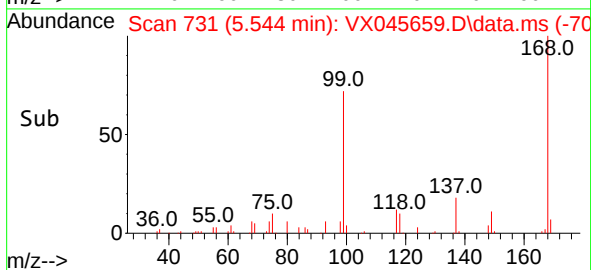
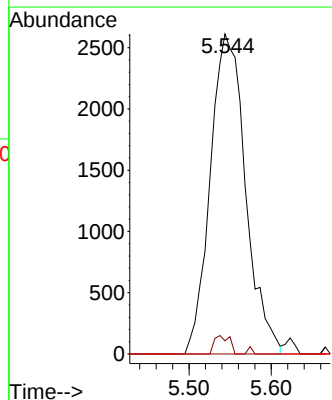
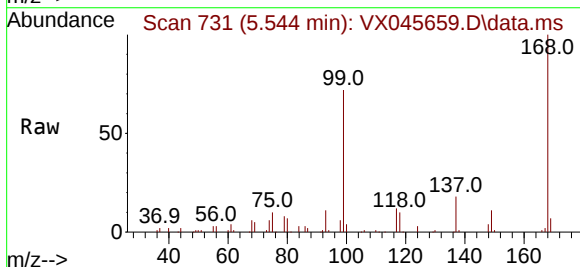
Tgt Ion: 117 Resp: 7789

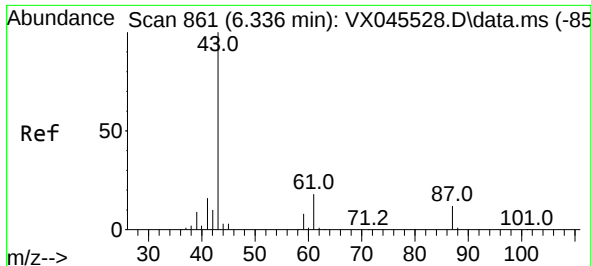
Ion Ratio Lower Upper

117 100

119 4.1 76.9 115.3#

121 0.0 24.2 36.2#

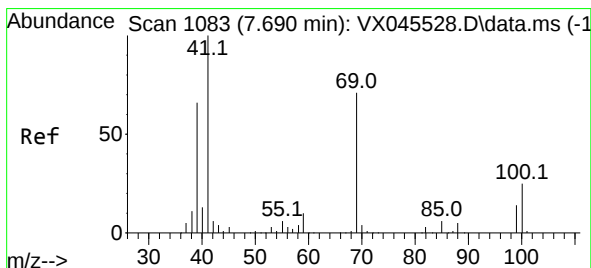
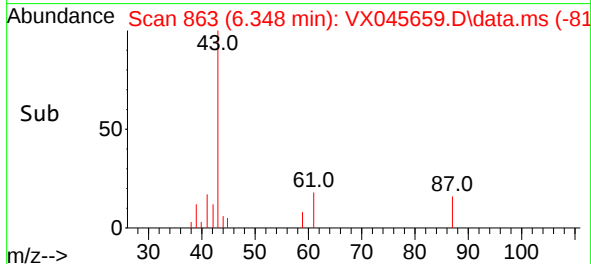
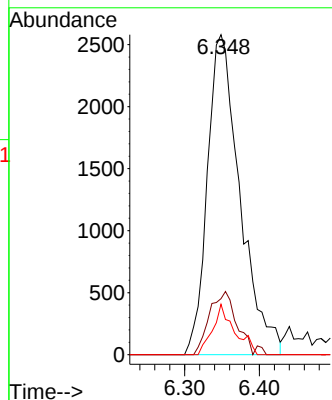
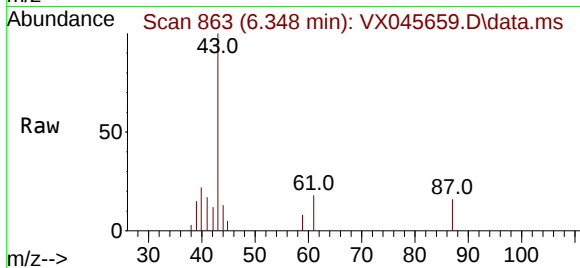




#43
Isopropyl Acetate
Concen: 3.320 ug/l
RT: 6.348 min Scan# 81
Delta R.T. 0.012 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

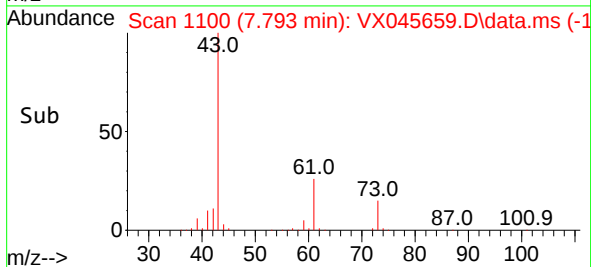
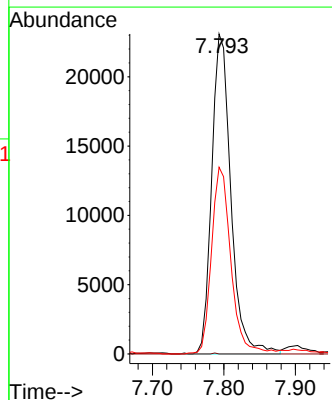
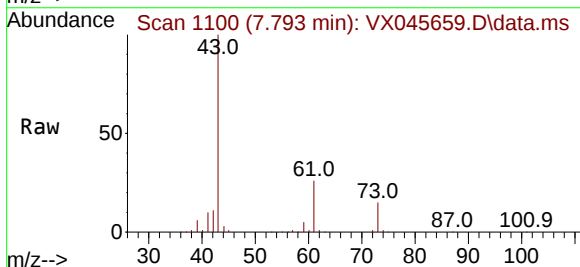
Instrument :
MSVOA_X
ClientSampleId :
TP-16

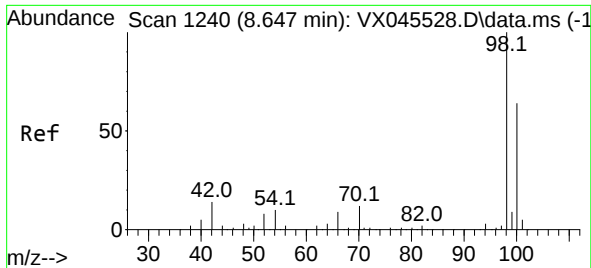
Tgt Ion: 43 Resp: 7832
Ion Ratio Lower Upper
43 100
61 16.9 14.1 21.1
87 10.6 9.2 13.8



#48
Methyl methacrylate
Concen: 35.304 ug/l
RT: 7.793 min Scan# 1100
Delta R.T. 0.104 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

Tgt Ion: 41 Resp: 43002
Ion Ratio Lower Upper
41 100
69 0.1 58.2 87.2#
39 59.0 53.6 80.4

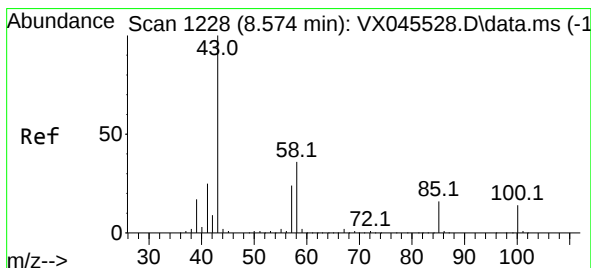
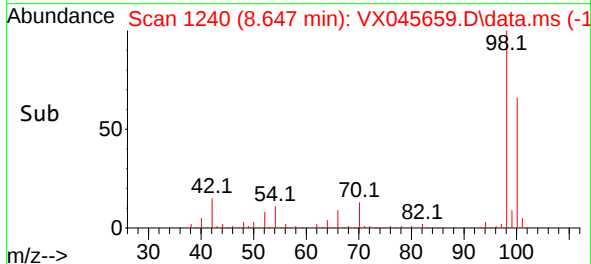
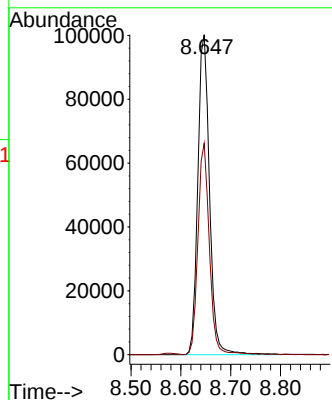
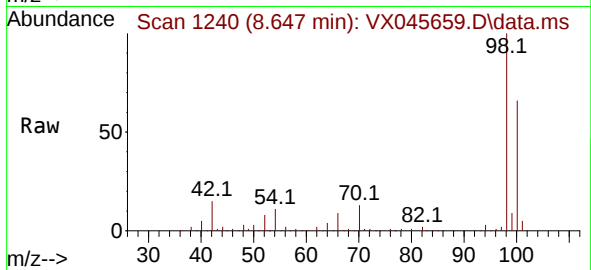




#50
Toluene-d8
Concen: 51.080 ug/l
RT: 8.647 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

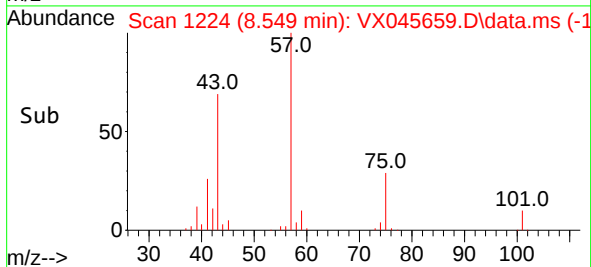
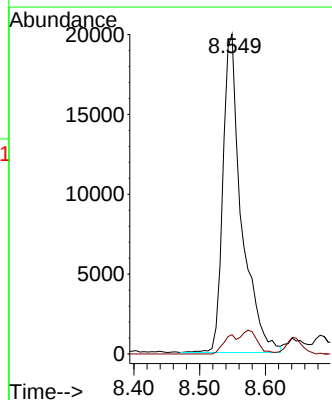
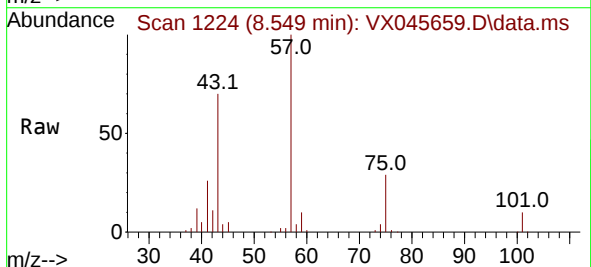
Instrument :
MSVOA_X
ClientSampleId :
TP-16

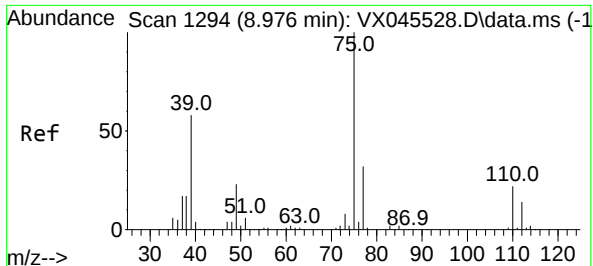
Tgt Ion: 98 Resp: 163095
Ion Ratio Lower Upper
98 100
100 64.2 52.2 78.4



#51
4-Methyl-2-Pentanone
Concen: 25.060 ug/l
RT: 8.549 min Scan# 1224
Delta R.T. -0.024 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

Tgt Ion: 43 Resp: 39191
Ion Ratio Lower Upper
43 100
58 4.2 28.5 42.7#





#53

t-1,3-Dichloropropene

Concen: 2.426 ug/l

RT: 8.952 min Scan# 11

Delta R.T. -0.024 min

Lab File: VX045659.D

Acq: 08 Apr 2025 17:54

Instrument :

MSVOA_X

ClientSampleId :

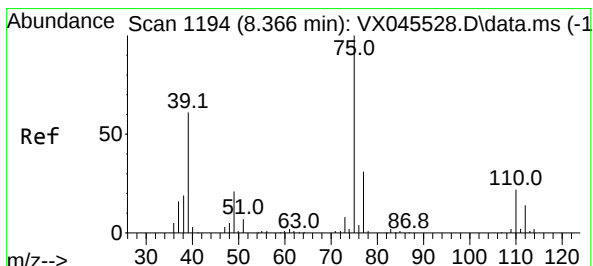
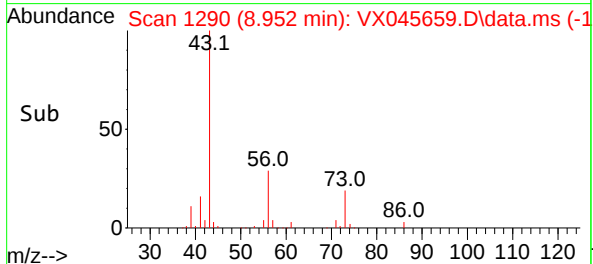
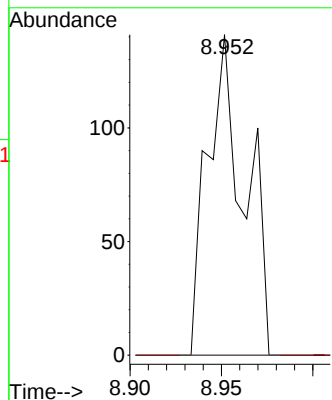
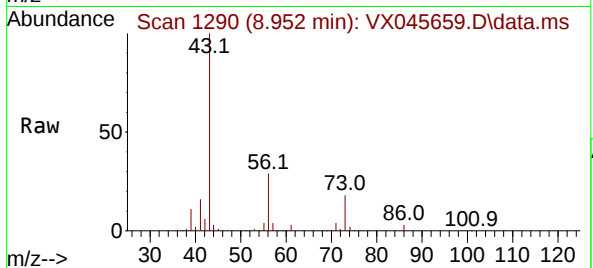
TP-16

Tgt Ion: 75 Resp: 199

Ion Ratio Lower Upper

75 100

77 0.0 25.4 38.0#



#54

cis-1,3-Dichloropropene

Concen: 9.822 ug/l

RT: 8.549 min Scan# 1224

Delta R.T. 0.183 min

Lab File: VX045659.D

Acq: 08 Apr 2025 17:54

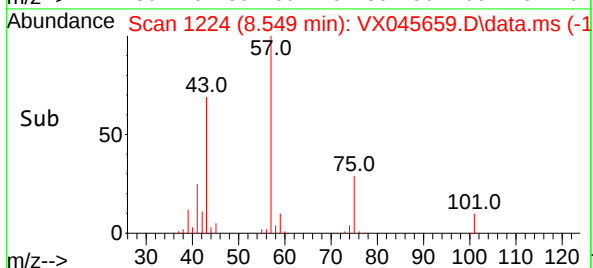
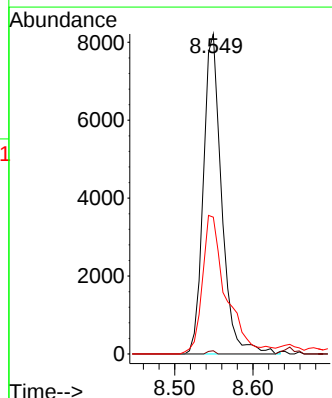
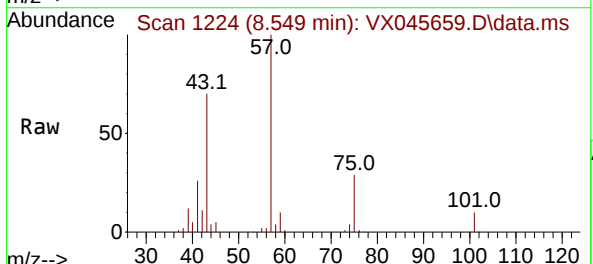
Tgt Ion: 75 Resp: 13318

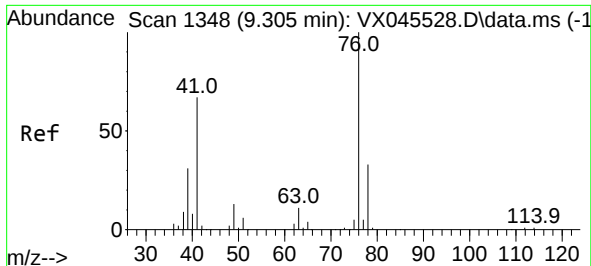
Ion Ratio Lower Upper

75 100

77 1.0 24.6 36.8#

39 42.8 48.4 72.6#





#57

1,3-Dichloropropane

Concen: 0.840 ug/l

RT: 9.482 min Scan# 1377

Delta R.T. 0.177 min

Lab File: VX045659.D

Acq: 08 Apr 2025 17:54

Instrument :

MSVOA_X

ClientSampleId :

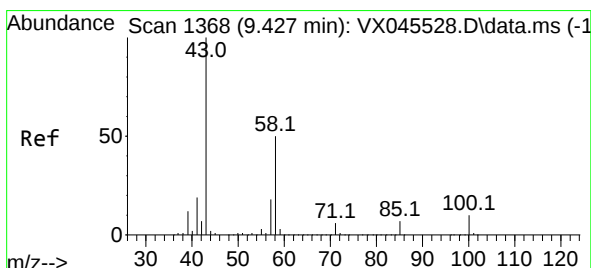
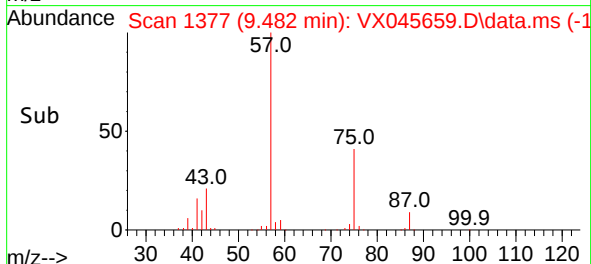
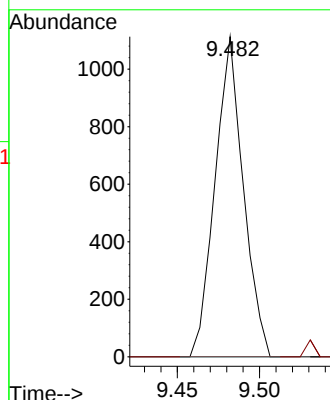
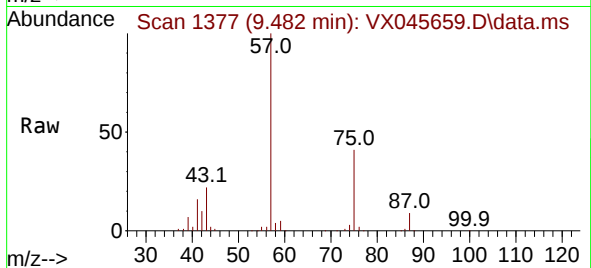
TP-16

Tgt Ion: 76 Resp: 1331

Ion Ratio Lower Upper

76 100

78 0.0 26.0 39.0#



#59

2-Hexanone

Concen: 8.000 ug/l

RT: 9.372 min Scan# 1359

Delta R.T. -0.055 min

Lab File: VX045659.D

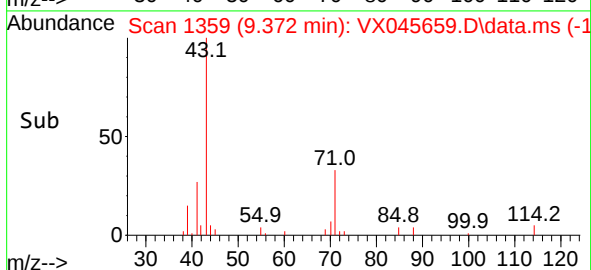
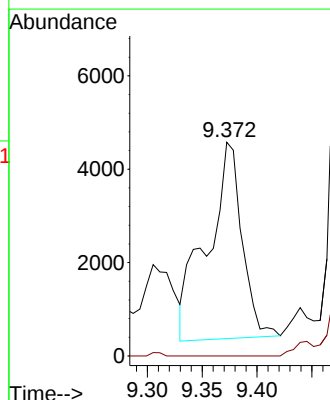
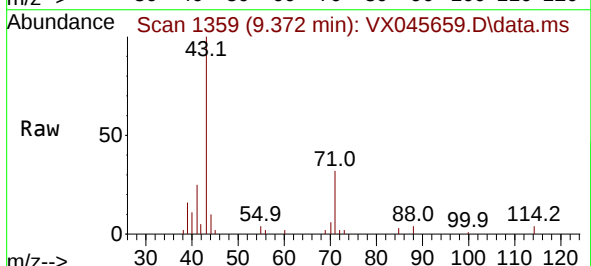
Acq: 08 Apr 2025 17:54

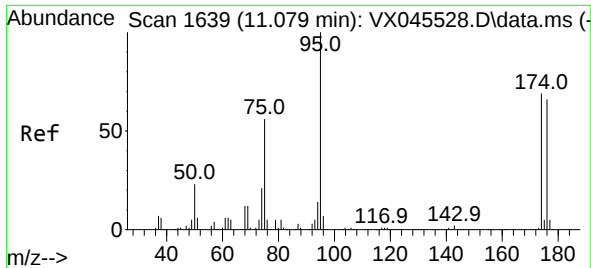
Tgt Ion: 43 Resp: 9265

Ion Ratio Lower Upper

43 100

58 0.0 24.9 74.6#

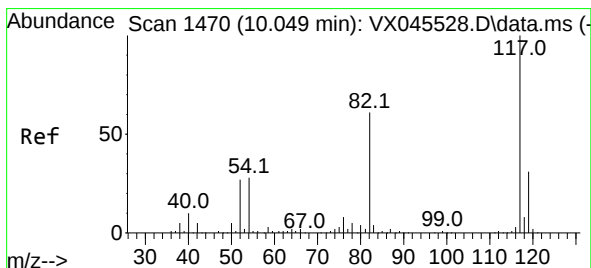
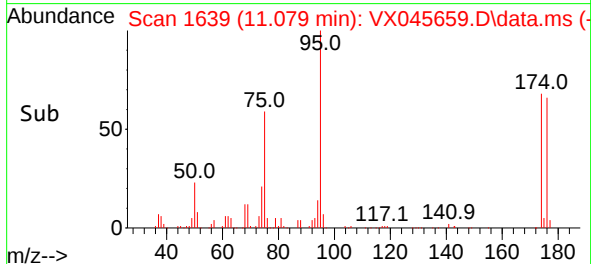
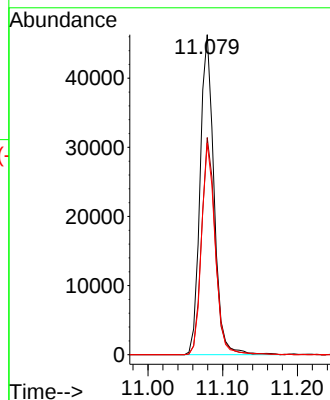
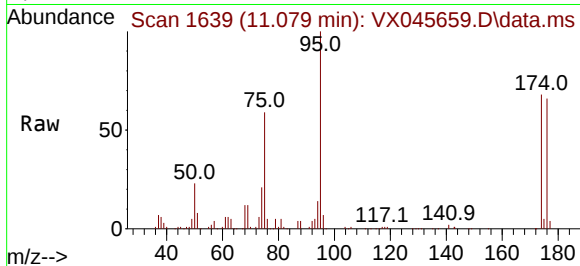




#62
4-Bromofluorobenzene
Concen: 51.300 ug/l
RT: 11.079 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

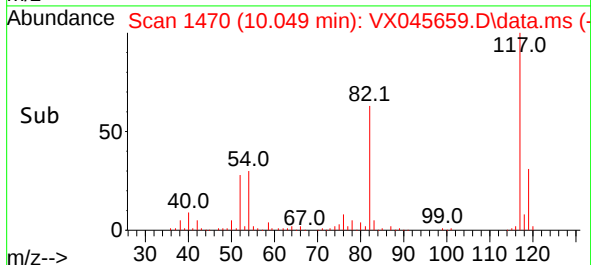
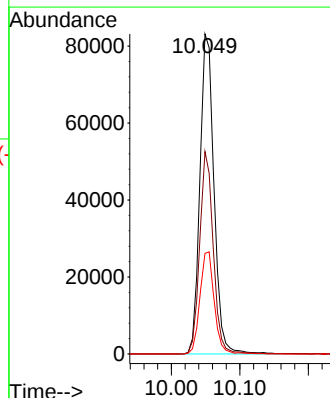
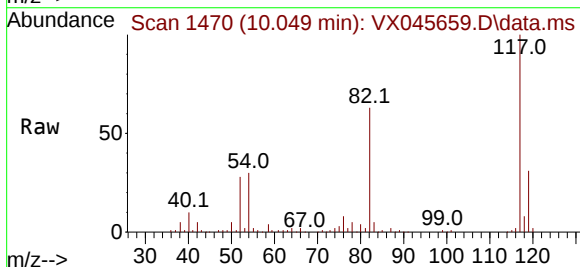
Instrument :
MSVOA_X
ClientSampleId :
TP-16

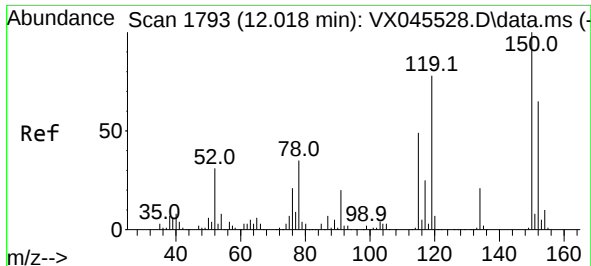
Tgt Ion: 95 Resp: 59663
Ion Ratio Lower Upper
95 100
174 66.5 0.0 135.8
176 65.1 0.0 131.4



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.049 min Scan# 1470
Delta R.T. 0.000 min
Lab File: VX045659.D
Acq: 08 Apr 2025 17:54

Tgt Ion: 117 Resp: 119271
Ion Ratio Lower Upper
117 100
82 63.3 49.2 73.8
119 31.4 25.1 37.7

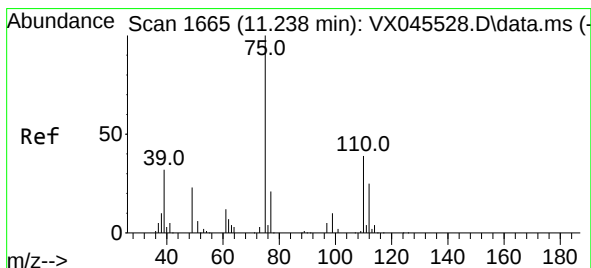
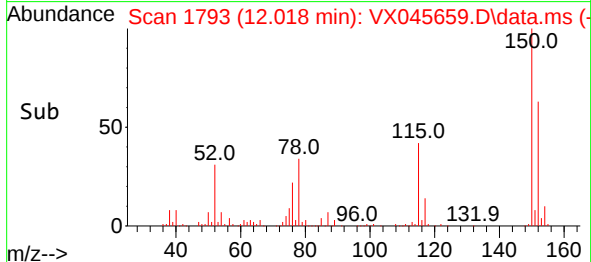
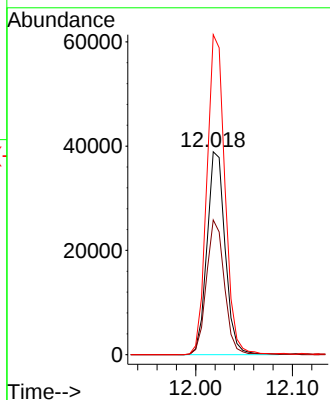
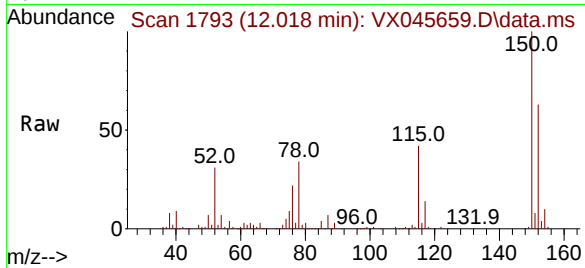




#72
 1,4-Dichlorobenzene-d4
 Concen: 50.000 ug/l
 RT: 12.018 min Scan# 1
 Delta R.T. 0.000 min
 Lab File: VX045659.D
 Acq: 08 Apr 2025 17:54

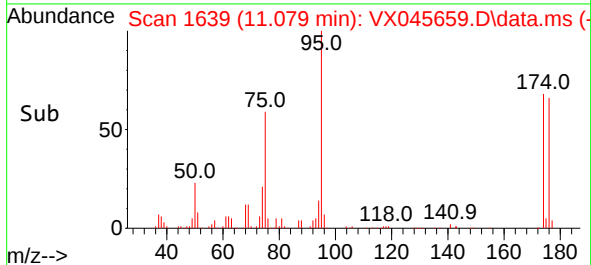
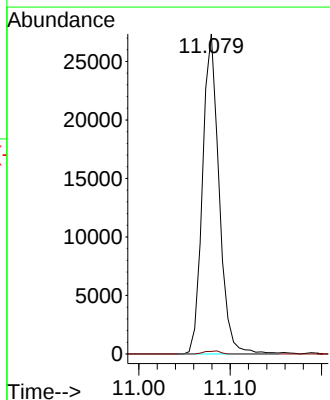
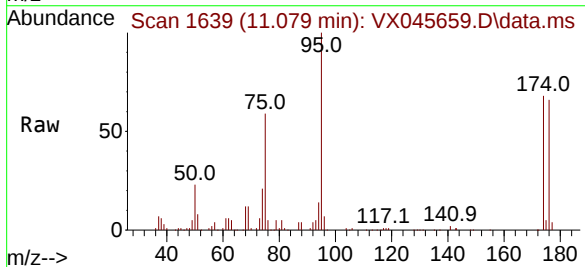
Instrument :
 MSVOA_X
 ClientSampleId :
 TP-16

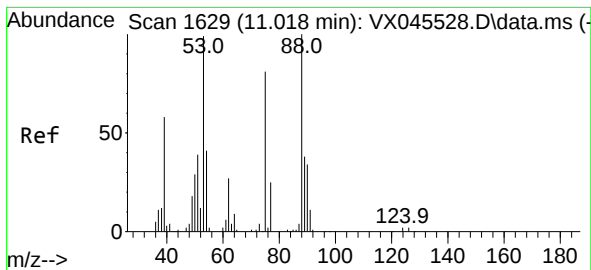
Tgt Ion:152 Resp: 50866
 Ion Ratio Lower Upper
 152 100
 115 65.9 46.9 140.7
 150 156.9 0.0 349.4



#76
 1,2,3-Trichloropropane
 Concen: 27.725 ug/l
 RT: 11.079 min Scan# 1639
 Delta R.T. -0.158 min
 Lab File: VX045659.D
 Acq: 08 Apr 2025 17:54

Tgt Ion: 75 Resp: 34399
 Ion Ratio Lower Upper
 75 100
 77 0.9 20.0 59.9#





#81
 trans-1,4-Dichloro-2-butene
 Concen: 94.094 ug/l
 RT: 11.079 min Scan# 1
 Delta R.T. 0.061 min
 Lab File: VX045659.D
 Acq: 08 Apr 2025 17:54

Instrument :
 MSVOA_X
 ClientSampleId :
 TP-16

Tgt Ion: 75 Resp: 34399
 Ion Ratio Lower Upper
 75 100
 53 0.0 101.8 152.6#
 89 0.0 37.2 55.8#

