

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX091925\
 Data File : VX047665.D
 Acq On : 19 Sep 2025 11:26
 Operator : JC/MD
 Sample : Q3095-23DL 5X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 7 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :

Quant Time: Sep 20 00:28:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X091625W.M
 Quant Title : SW846 8260
 QLast Update : Wed Sep 17 06:39:58 2025
 Response via : Initial Calibration

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

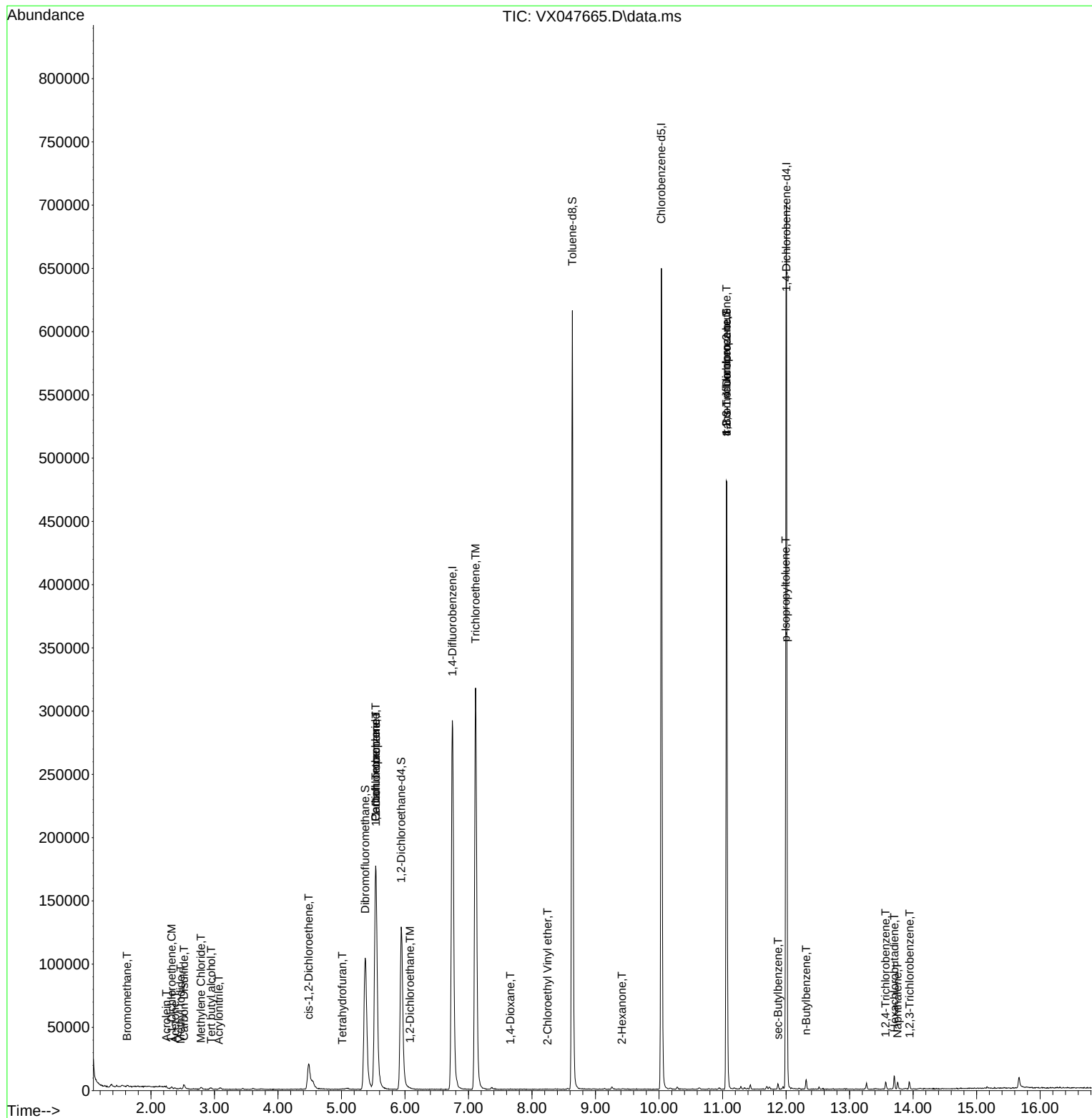
Internal Standards						
1) Pentafluorobenzene	5.537	168	178407	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.745	114	318864	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.037	117	293829	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.006	152	142184	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.940	65	138821	48.884	ug/l	0.00
Spiked Amount 50.000	Range 78 - 117		Recovery =	97.760%		
35) Dibromofluoromethane	5.373	113	102800	48.072	ug/l	0.00
Spiked Amount 50.000	Range 75 - 124		Recovery =	96.140%		
50) Toluene-d8	8.635	98	362161	48.944	ug/l	0.00
Spiked Amount 50.000	Range 92 - 112		Recovery =	97.880%		
62) 4-Bromofluorobenzene	11.061	95	140015	49.858	ug/l	0.00
Spiked Amount 50.000	Range 83 - 123		Recovery =	99.720%		
Target Compounds						
					Qvalue	
5) Bromomethane	1.624	94	442	0.293	ug/l	88
10) Methyl Iodide	2.465	142	848	0.263	ug/l #	90
11) Tert butyl alcohol	2.947	59	436	1.379	ug/l #	72
12) 1,1-Dichloroethene	2.325	96	535	0.252	ug/l #	76
13) Acrolein	2.239	56	158	0.542	ug/l #	14
15) Acrylonitrile	3.068	53	313	0.267	ug/l	89
16) Acetone	2.380	43	1341	1.086	ug/l	96
17) Carbon Disulfide	2.520	76	1919	0.331	ug/l #	76
20) Methylene Chloride	2.788	84	647	0.248	ug/l #	88
27) cis-1,2-Dichloroethene	4.483	96	13908	4.976	ug/l	93
29) Tetrahydrofuran	5.013	42	202	0.218	ug/l #	34
36) 1,1-Dichloropropene	5.544	75	14928	4.777	ug/l #	51
38) Carbon Tetrachloride	5.537	117	18837	5.548	ug/l #	18
42) 1,2-Dichloroethane	6.080	62	921	0.255	ug/l #	76
44) Trichloroethene	7.110	130	132536	57.761	ug/l	99
49) 1,4-Dioxane	7.659	88	90	3.258	ug/l #	68
58) 2-Chloroethyl Vinyl ether	8.244	63	58	7.927	ug/l #	47
59) 2-Hexanone	9.415	43	729	0.334	ug/l #	59
76) 1,2,3-Trichloropropane	11.061	75	72548	25.201	ug/l #	39
81) trans-1,4-Dichloro-2-b...	11.061	75	72548	64.266	ug/l #	8
85) sec-Butylbenzene	11.872	105	2404	0.223	ug/l	97
86) p-Isopropyltoluene	11.994	119	2188	0.239	ug/l #	75
89) n-Butylbenzene	12.317	91	3192	0.377	ug/l	89
93) 1,2,4-Trichlorobenzene	13.567	180	1484	0.485	ug/l	96
94) Hexachlorobutadiene	13.707	225	1449	1.393	ug/l	94
95) Naphthalene	13.756	128	3517	0.377	ug/l	99
96) 1,2,3-Trichlorobenzene	13.945	180	1350	0.474	ug/l	96

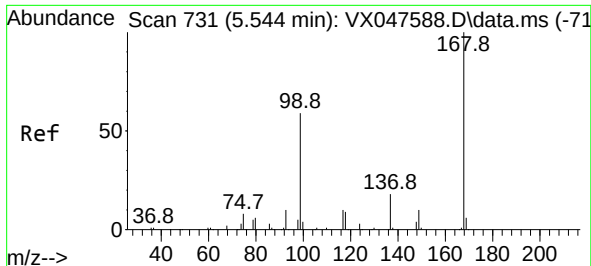
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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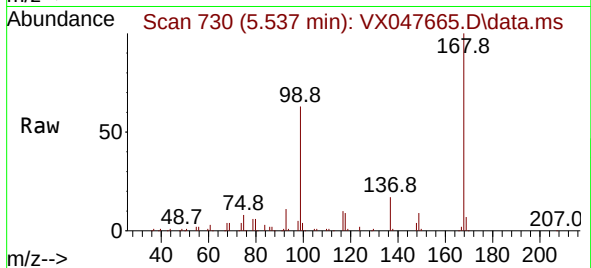
Quant Time: Sep 20 00:28:56 2025
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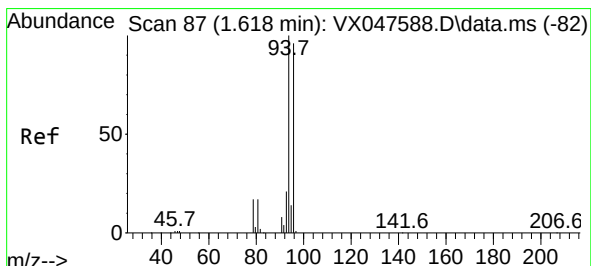
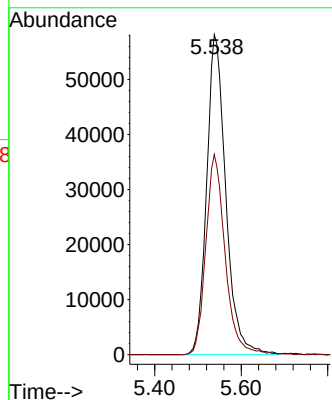
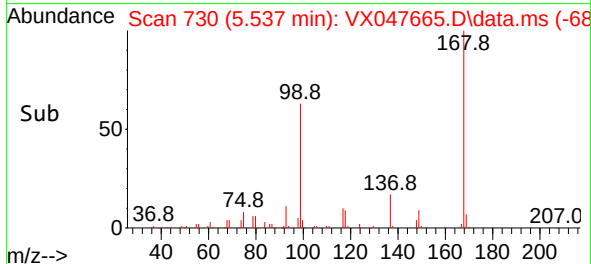


#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.006 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Instrument :
MSVOA_X
ClientSampleId :

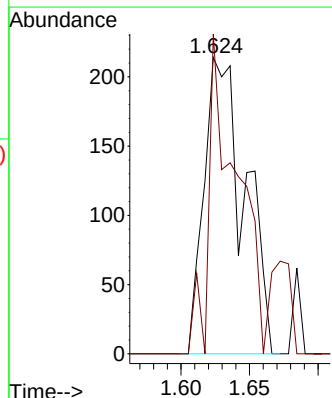
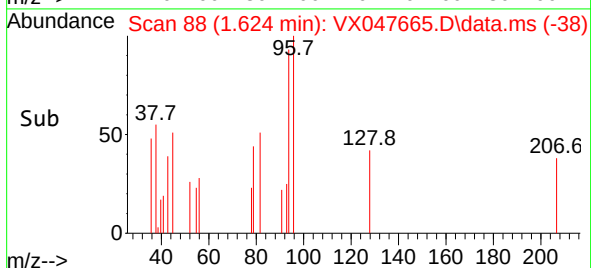
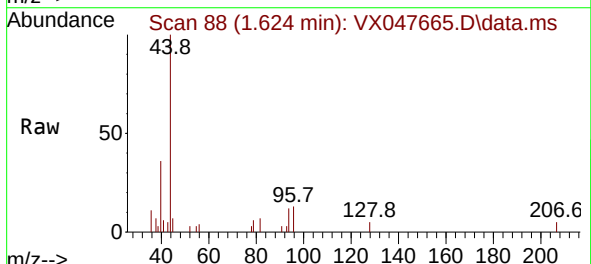


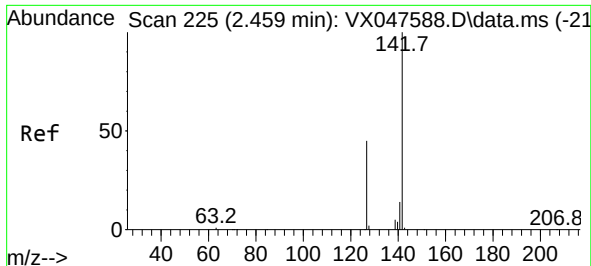
Tgt Ion:168 Resp: 178407
Ion Ratio Lower Upper
168 100
99 62.5 48.8 73.2



#5
Bromomethane
Concen: 0.293 ug/l
RT: 1.624 min Scan# 88
Delta R.T. 0.006 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

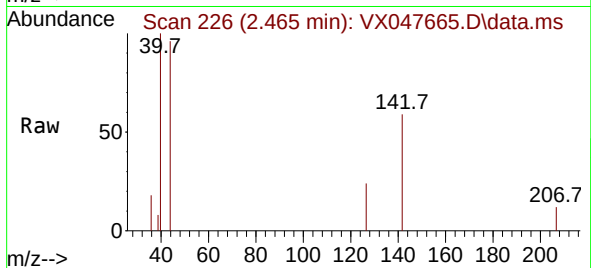
Tgt Ion: 94 Resp: 442
Ion Ratio Lower Upper
94 100
96 107.9 76.6 115.0



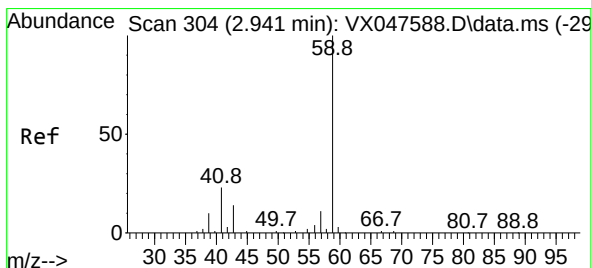
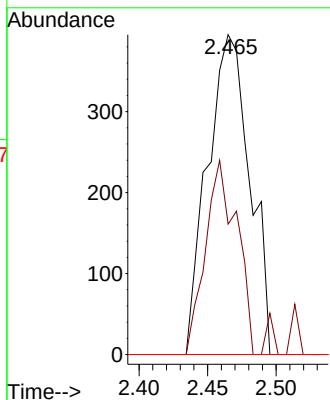
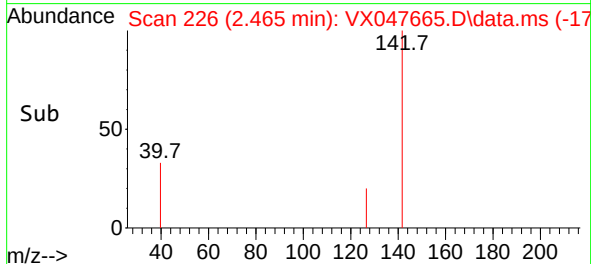


#10
Methyl Iodide
Concen: 0.263 ug/l
RT: 2.465 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Instrument :
MSVOA_X
ClientSampleId :

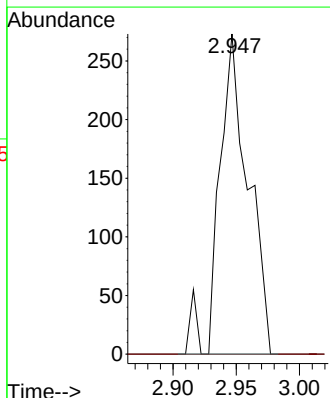
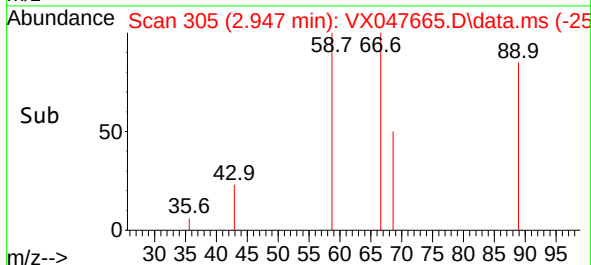
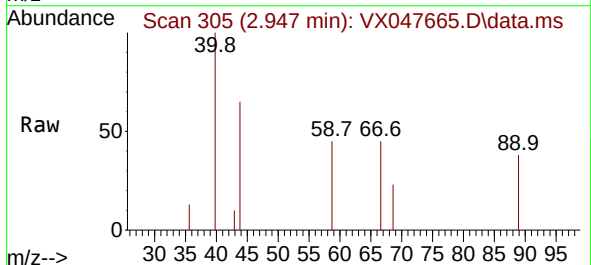


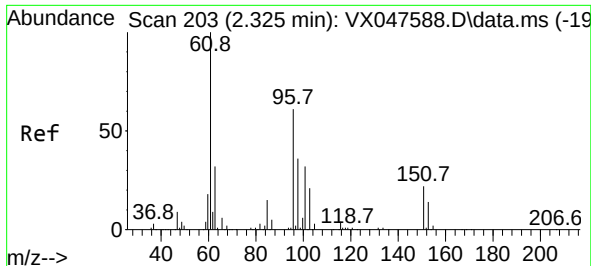
Tgt Ion:142 Resp: 848
Ion Ratio Lower Upper
142 100
127 45.2 37.2 55.8
141 0.0 11.4 17.0#



#11
Tert butyl alcohol
Concen: 1.379 ug/l
RT: 2.947 min Scan# 305
Delta R.T. 0.006 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Tgt Ion: 59 Resp: 436
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#





#12

1,1-Dichloroethene

Concen: 0.252 ug/l

RT: 2.325 min Scan# 203

Delta R.T. -0.000 min

Lab File: VX047665.D

Acq: 19 Sep 2025 11:26

Instrument :

MSVOA_X

ClientSampleId :

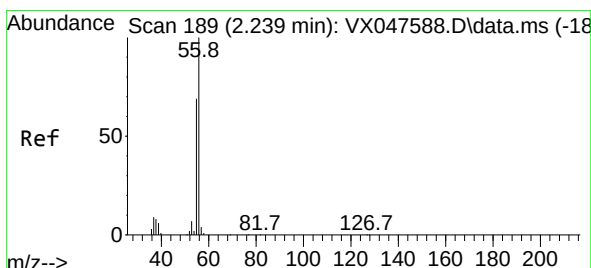
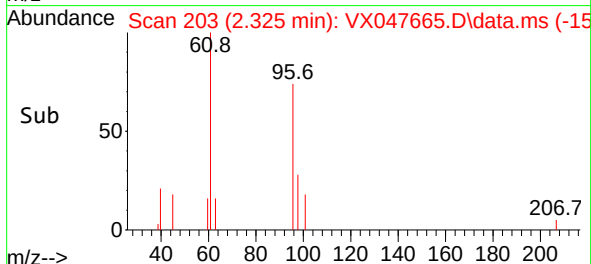
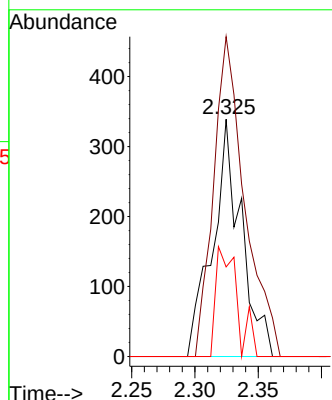
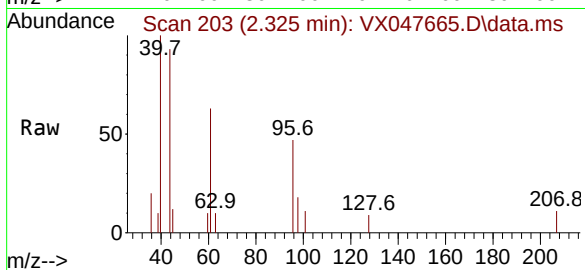
Tgt Ion: 96 Resp: 535

Ion Ratio Lower Upper

96 100

61 134.8 131.0 196.6

98 37.8 47.7 71.5#



#13

Acrolein

Concen: 0.542 ug/l

RT: 2.239 min Scan# 189

Delta R.T. -0.000 min

Lab File: VX047665.D

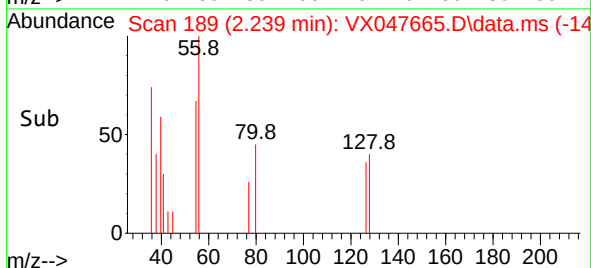
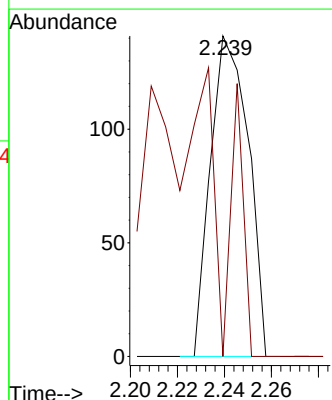
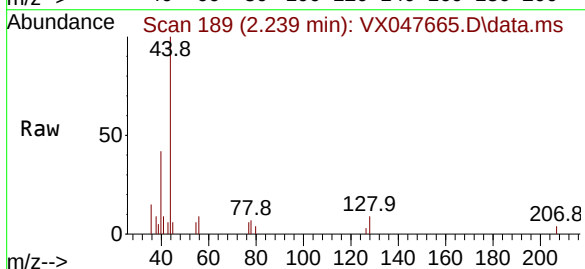
Acq: 19 Sep 2025 11:26

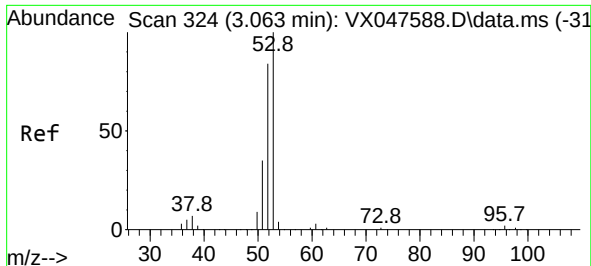
Tgt Ion: 56 Resp: 158

Ion Ratio Lower Upper

56 100

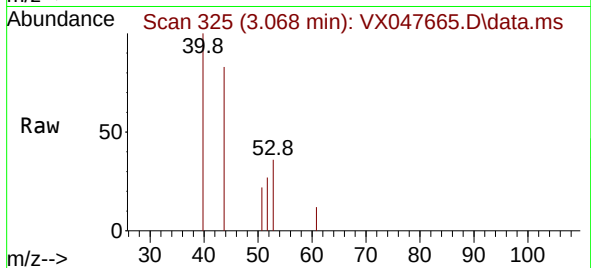
55 0.0 57.2 85.8#



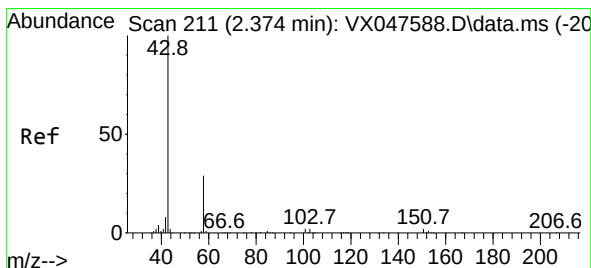
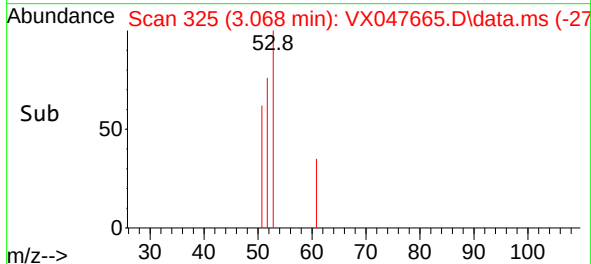
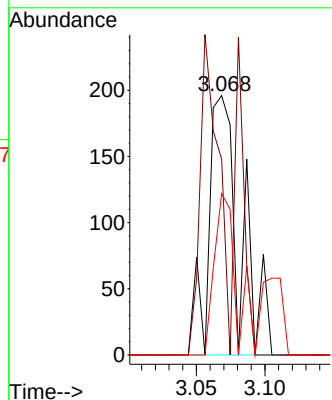


#15
Acrylonitrile
Concen: 0.267 ug/l
RT: 3.068 min Scan# 31
Delta R.T. 0.006 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Instrument :
MSVOA_X
ClientSampleId :

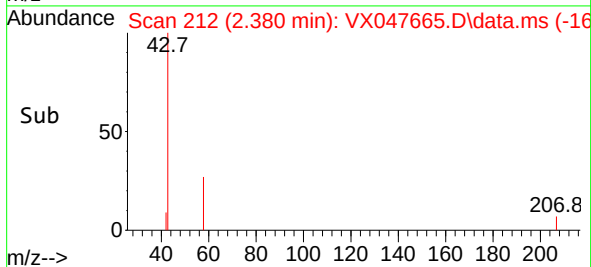
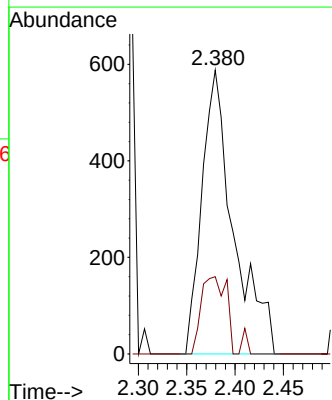
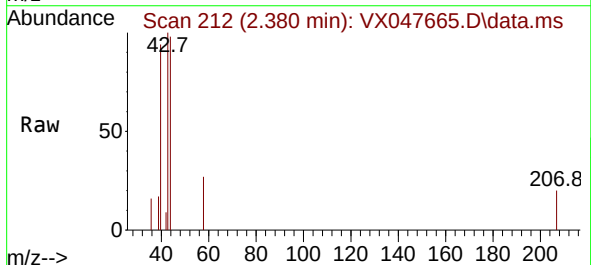


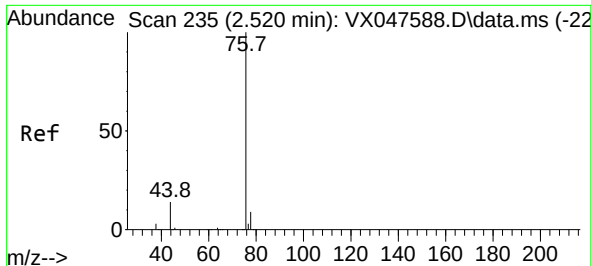
Tgt Ion: 53 Resp: 313
Ion Ratio Lower Upper
53 100
52 72.2 66.4 99.6
51 42.5 29.5 44.3



#16
Acetone
Concen: 1.086 ug/l
RT: 2.380 min Scan# 212
Delta R.T. 0.006 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Tgt Ion: 43 Resp: 1341
Ion Ratio Lower Upper
43 100
58 27.2 23.4 35.0





#17

Carbon Disulfide

Concen: 0.331 ug/l

RT: 2.520 min Scan# 21

Delta R.T. -0.000 min

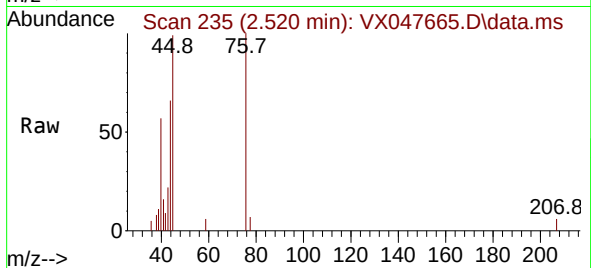
Lab File: VX047665.D

Acq: 19 Sep 2025 11:26

Instrument :

MSVOA_X

ClientSampleId :

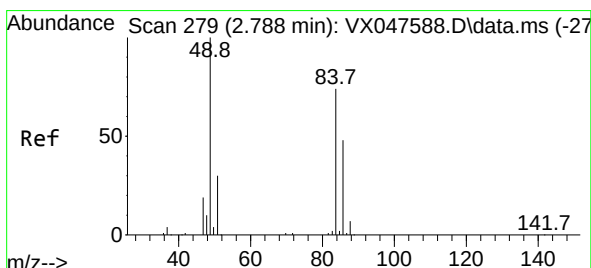
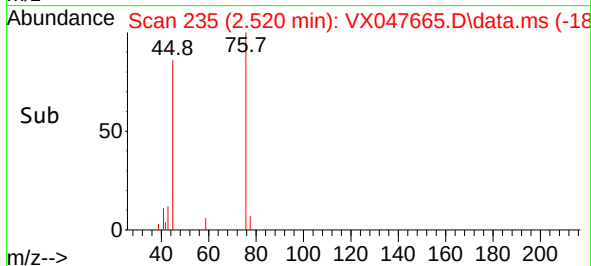
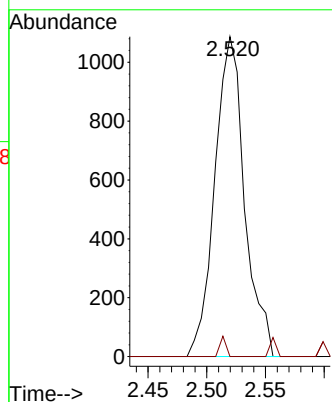


Tgt Ion: 76 Resp: 1919

Ion Ratio Lower Upper

76 100

78 0.0 6.8 10.2#



#20

Methylene Chloride

Concen: 0.248 ug/l

RT: 2.788 min Scan# 279

Delta R.T. -0.000 min

Lab File: VX047665.D

Acq: 19 Sep 2025 11:26

Tgt Ion: 84 Resp: 647

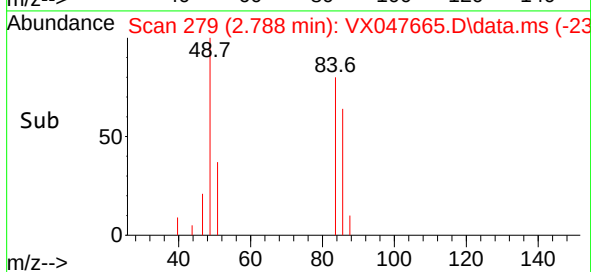
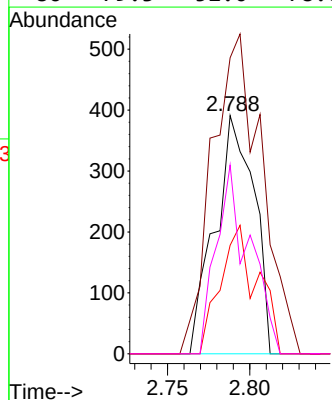
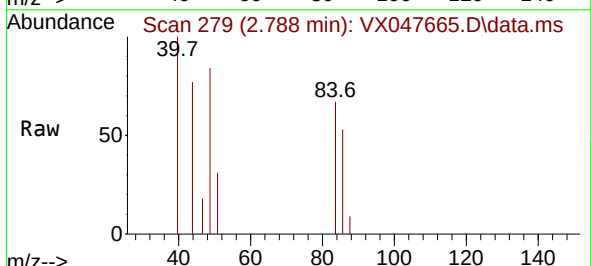
Ion Ratio Lower Upper

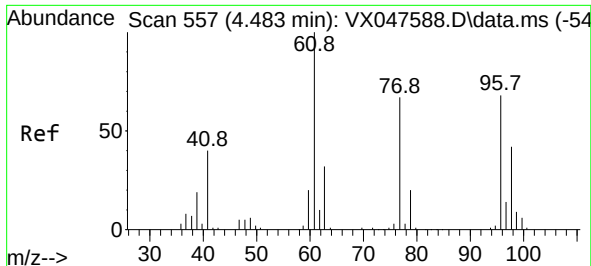
84 100

49 124.3 108.6 162.8

51 45.5 32.6 48.8

86 79.3 52.0 78.0#





#27

cis-1,2-Dichloroethene

Concen: 4.976 ug/l

RT: 4.483 min Scan# 51

Delta R.T. -0.000 min

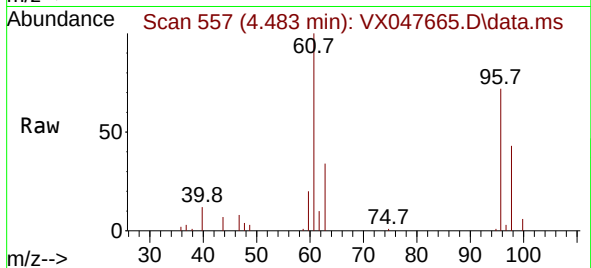
Lab File: VX047665.D

Acq: 19 Sep 2025 11:26

Instrument :

MSVOA_X

ClientSampleId :



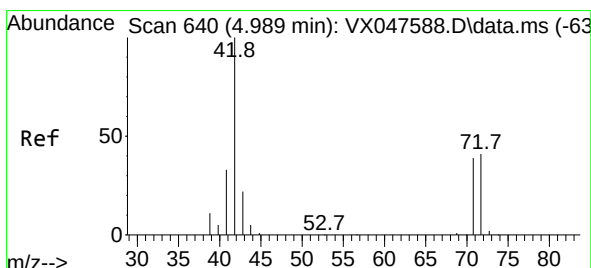
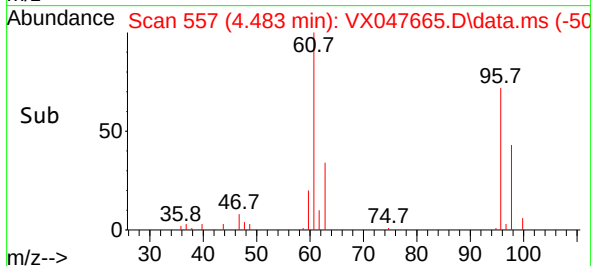
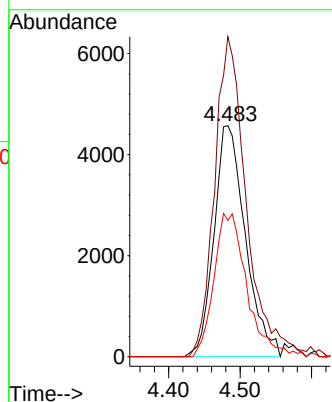
Tgt Ion: 96 Resp: 13908

Ion Ratio Lower Upper

96 100

61 140.4 0.0 303.2

98 65.3 0.0 127.8



#29

Tetrahydrofuran

Concen: 0.218 ug/l

RT: 5.013 min Scan# 644

Delta R.T. 0.024 min

Lab File: VX047665.D

Acq: 19 Sep 2025 11:26

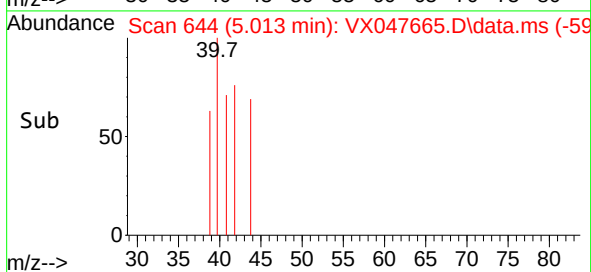
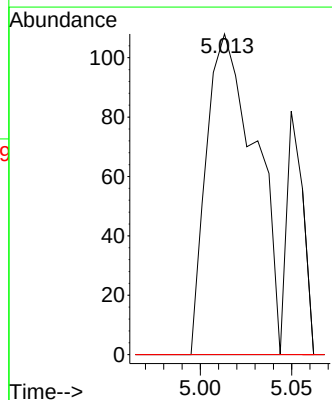
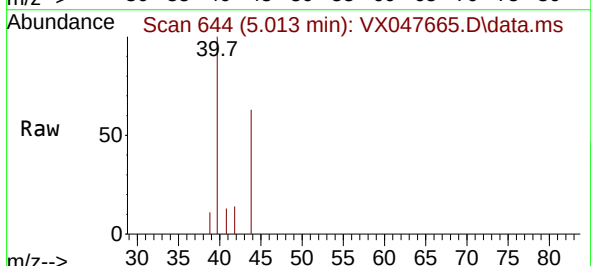
Tgt Ion: 42 Resp: 202

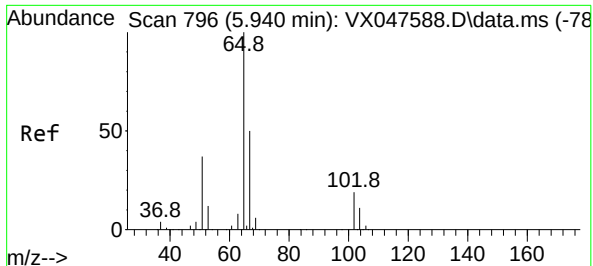
Ion Ratio Lower Upper

42 100

72 0.0 34.2 51.2#

71 0.0 31.9 47.9#

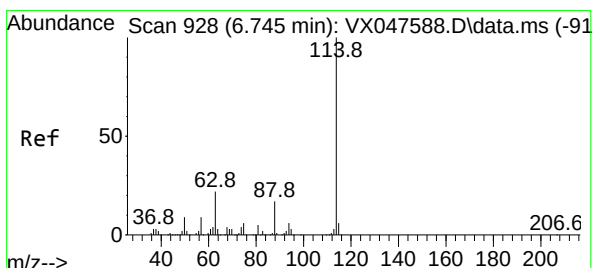
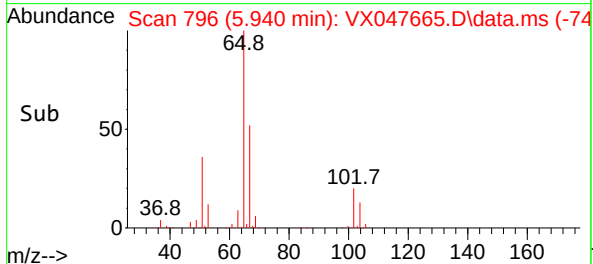
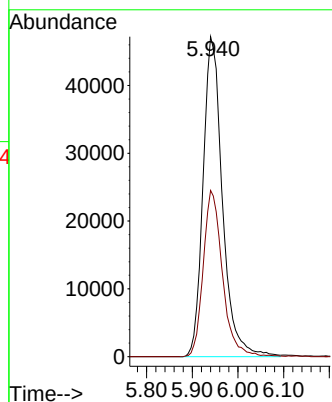
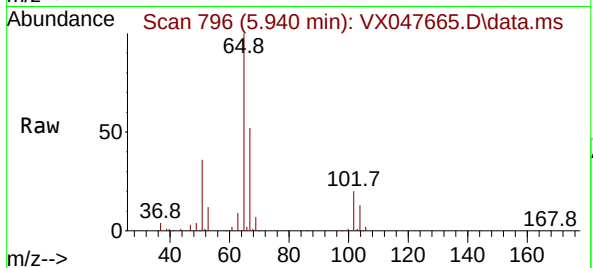




#33
1,2-Dichloroethane-d4
Concen: 48.884 ug/l
RT: 5.940 min Scan# 796
Delta R.T. -0.000 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

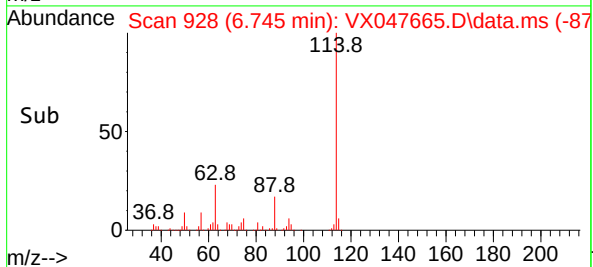
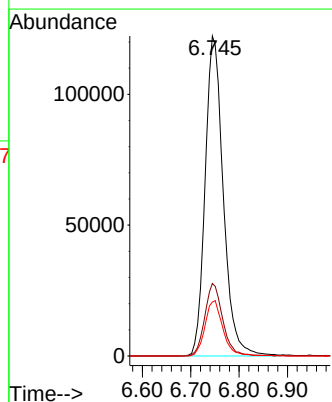
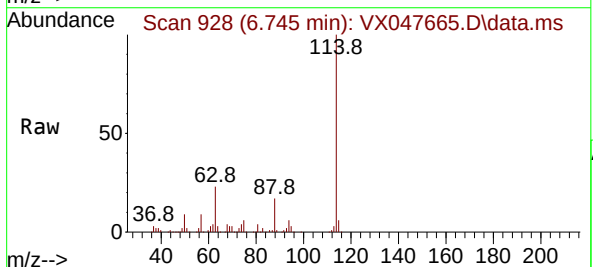
Instrument :
MSVOA_X
ClientSampleId :

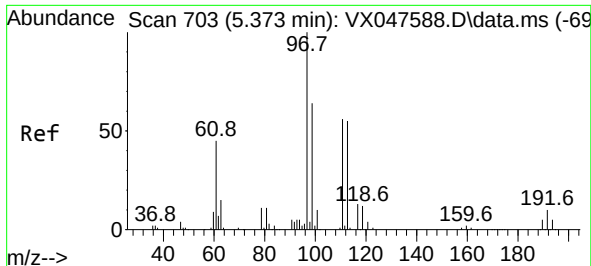
Tgt Ion: 65 Resp: 138821
Ion Ratio Lower Upper
65 100
67 51.7 0.0 103.0



#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.745 min Scan# 928
Delta R.T. -0.000 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

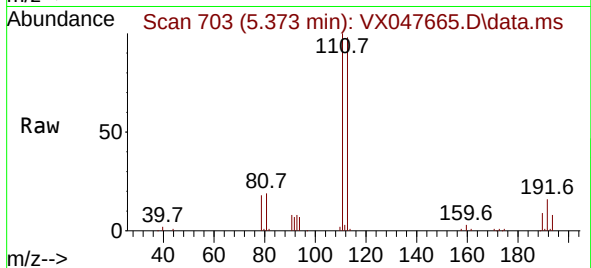
Tgt Ion: 114 Resp: 318864
Ion Ratio Lower Upper
114 100
63 22.7 0.0 44.0
88 16.9 0.0 34.2



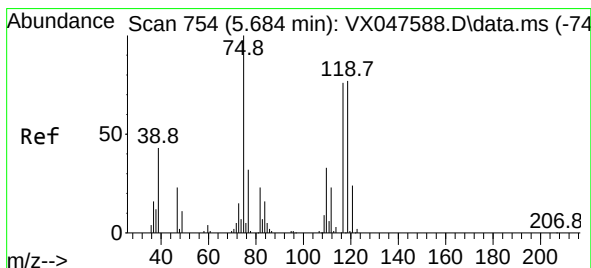
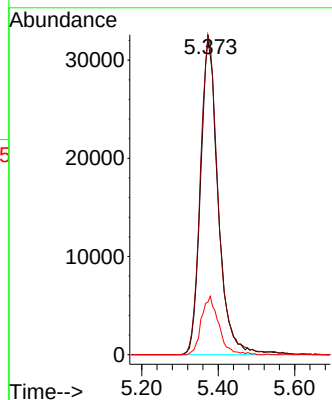
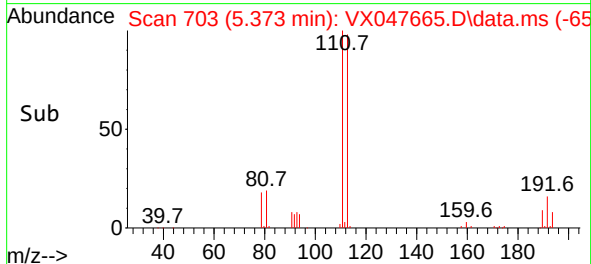


#35
Dibromofluoromethane
Concen: 48.072 ug/l
RT: 5.373 min Scan# 703
Delta R.T. -0.000 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

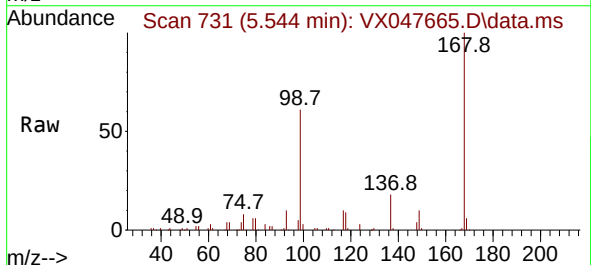
Instrument :
MSVOA_X
ClientSampleId :



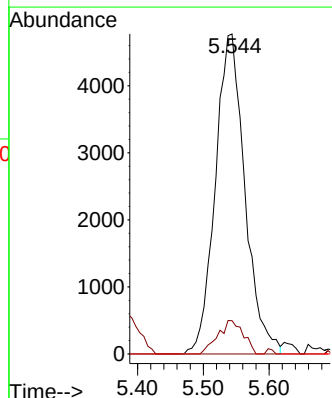
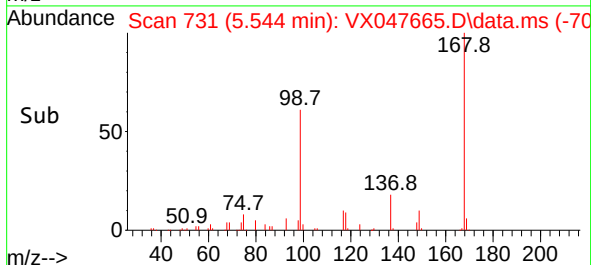
Tgt Ion:113 Resp: 102800
Ion Ratio Lower Upper
113 100
111 102.1 80.9 121.3
192 18.2 14.2 21.4

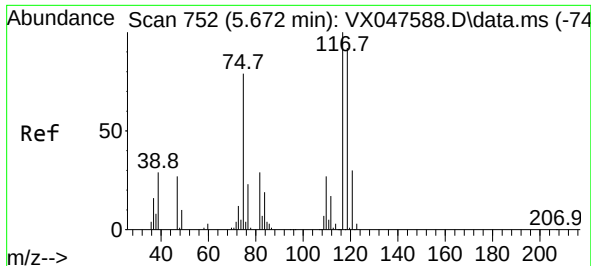


#36
1,1-Dichloropropene
Concen: 4.777 ug/l
RT: 5.544 min Scan# 731
Delta R.T. -0.140 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26



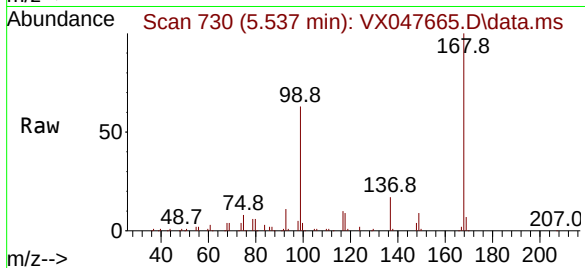
Tgt Ion: 75 Resp: 14928
Ion Ratio Lower Upper
75 100
110 9.0 16.7 50.1#
77 0.0 24.3 36.5#



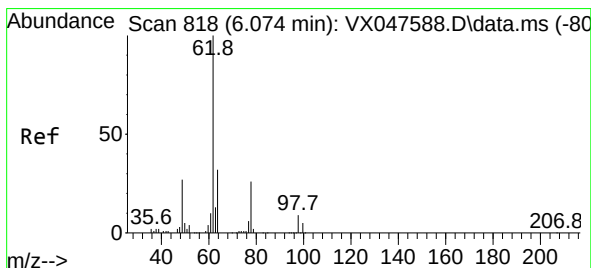
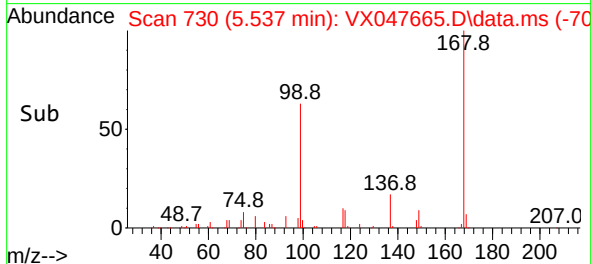
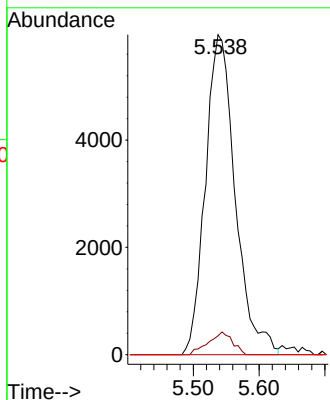


#38
Carbon Tetrachloride
Concen: 5.548 ug/l
RT: 5.537 min Scan# 71
Delta R.T. -0.134 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Instrument :
MSVOA_X
ClientSampleId :

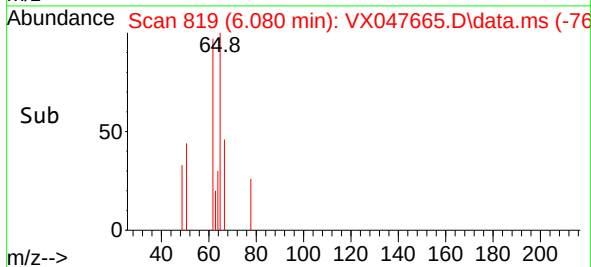
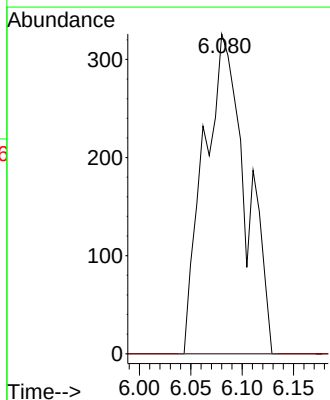
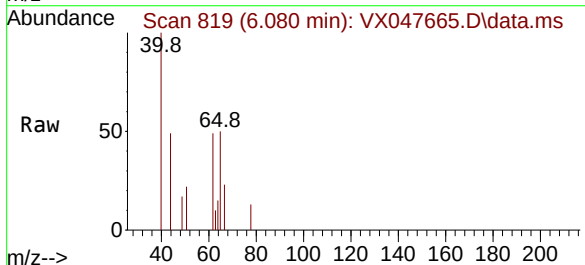


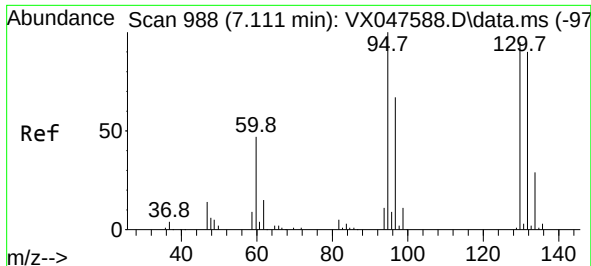
Tgt Ion:117 Resp: 18837
Ion Ratio Lower Upper
117 100
119 5.9 73.4 110.2#
121 0.0 23.8 35.6#



#42
1,2-Dichloroethane
Concen: 0.255 ug/l
RT: 6.080 min Scan# 819
Delta R.T. 0.006 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Tgt Ion: 62 Resp: 921
Ion Ratio Lower Upper
62 100
98 0.0 0.0 17.0

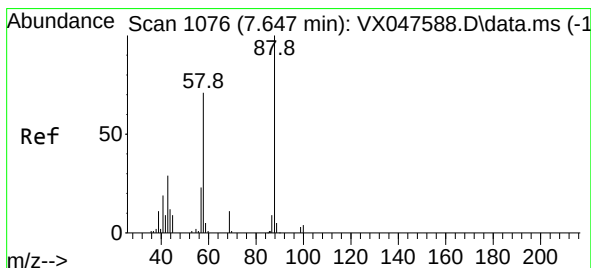
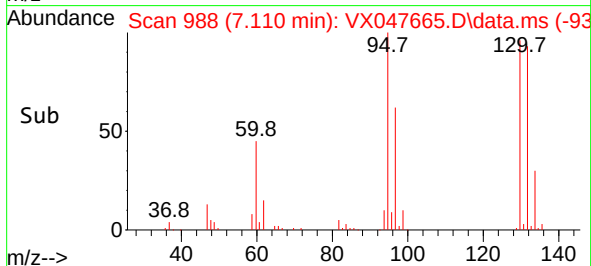
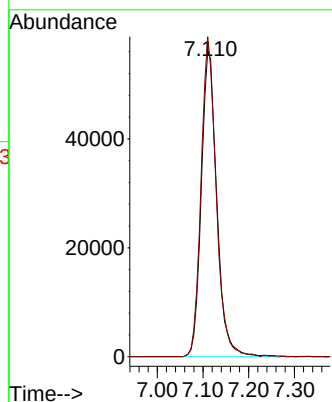
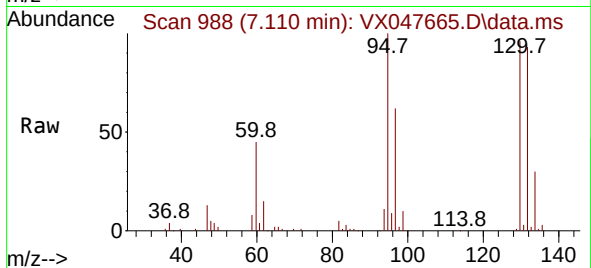




#44
Trichloroethene
Concen: 57.761 ug/l
RT: 7.110 min Scan# 91
Delta R.T. -0.000 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

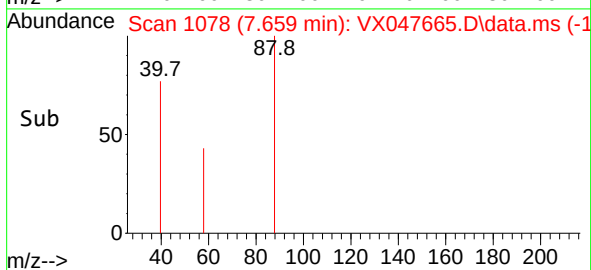
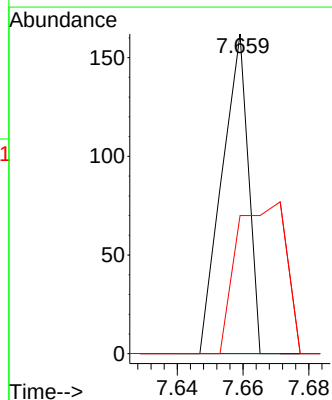
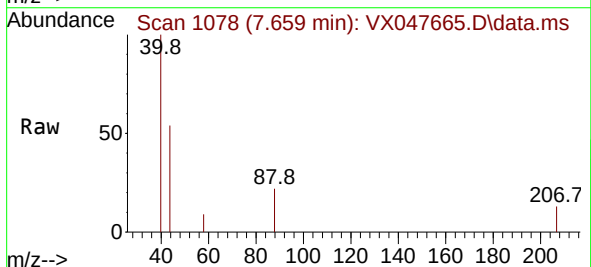
Instrument :
MSVOA_X
ClientSampleId :

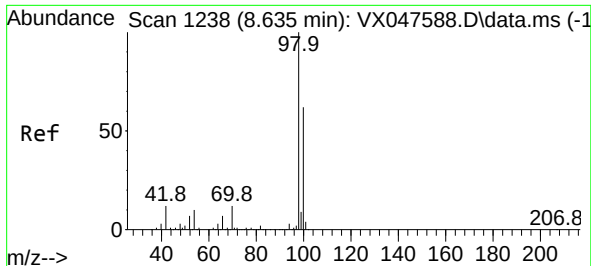
Tgt Ion:130 Resp: 132536
Ion Ratio Lower Upper
130 100
95 104.7 0.0 210.8



#49
1,4-Dioxane
Concen: 3.258 ug/l
RT: 7.659 min Scan# 1078
Delta R.T. 0.012 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Tgt Ion: 88 Resp: 90
Ion Ratio Lower Upper
88 100
43 0.0 30.2 45.2#
58 87.8 59.5 89.3

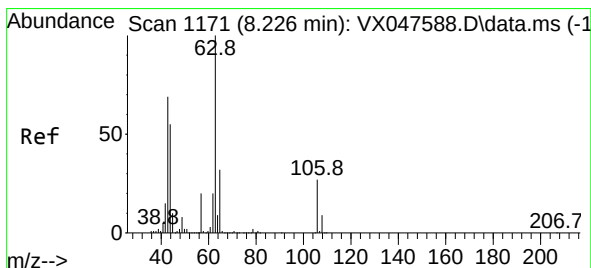
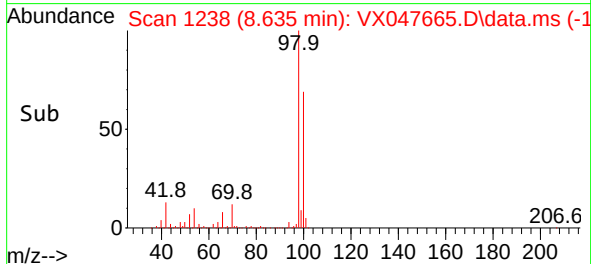
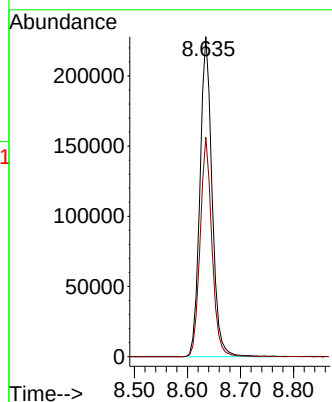
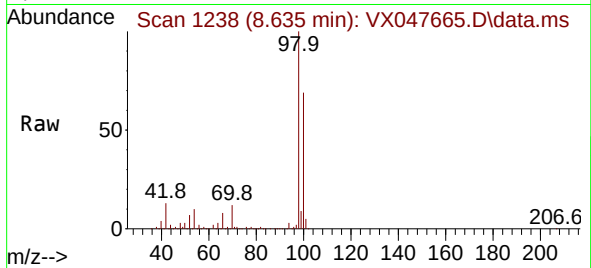




#50
Toluene-d8
Concen: 48.944 ug/l
RT: 8.635 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

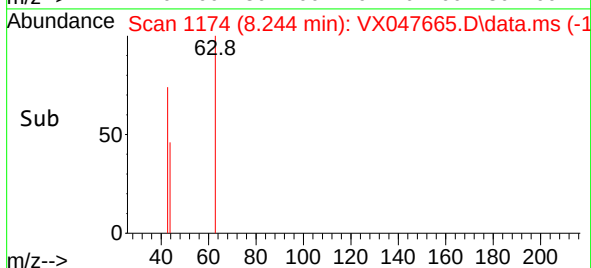
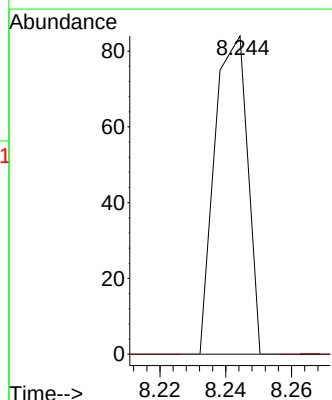
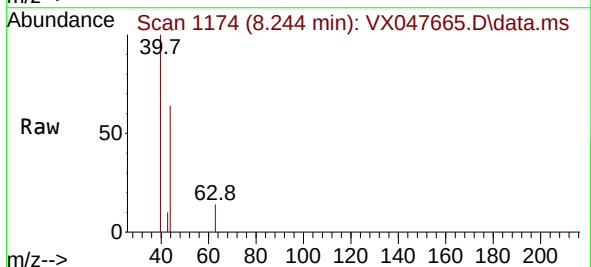
Instrument :
MSVOA_X
ClientSampleId :

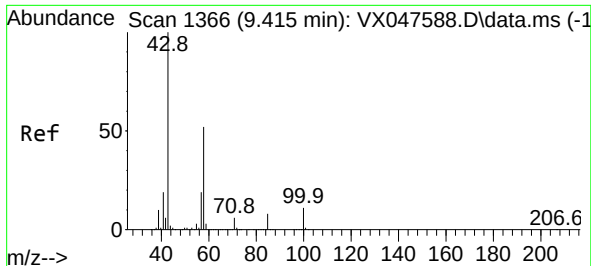
Tgt Ion: 98 Resp: 362161
Ion Ratio Lower Upper
98 100
100 66.7 53.0 79.4



#58
2-Chloroethyl Vinyl ether
Concen: 7.927 ug/l
RT: 8.244 min Scan# 1174
Delta R.T. 0.018 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

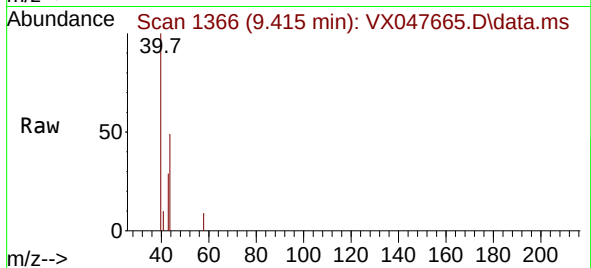
Tgt Ion: 63 Resp: 58
Ion Ratio Lower Upper
63 100
106 0.0 21.9 32.9#



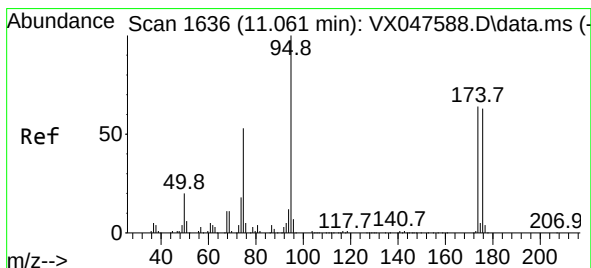
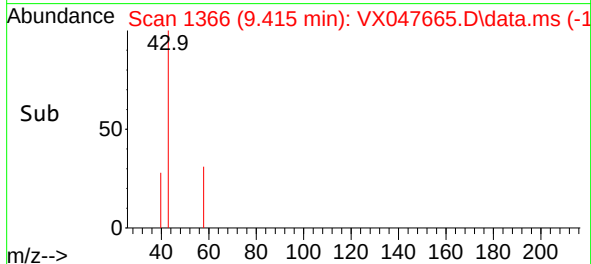
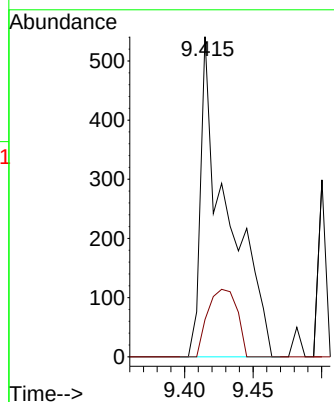


#59
2-Hexanone
Concen: 0.334 ug/l
RT: 9.415 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Instrument :
MSVOA_X
ClientSampleId :

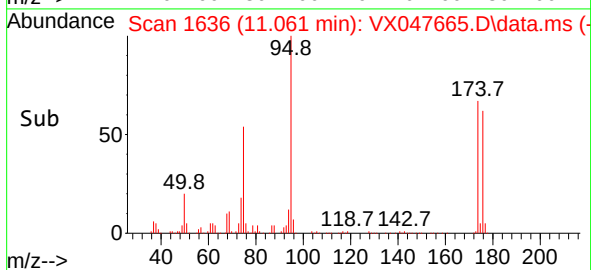
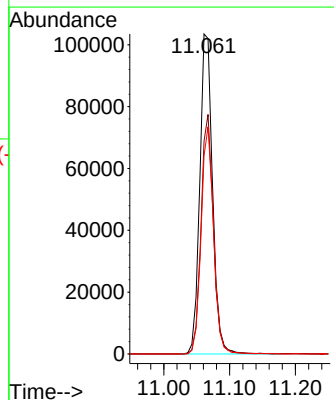
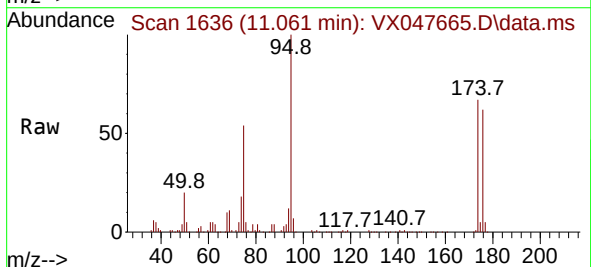


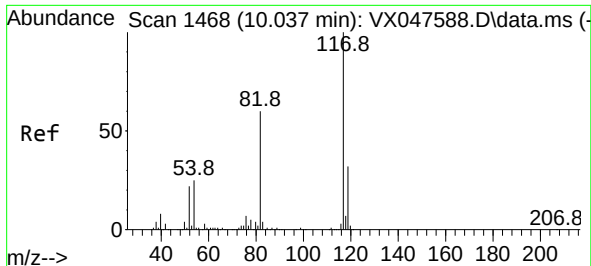
Tgt Ion: 43 Resp: 729
Ion Ratio Lower Upper
43 100
58 23.3 26.1 78.2#



#62
4-Bromofluorobenzene
Concen: 49.858 ug/l
RT: 11.061 min Scan# 1636
Delta R.T. -0.000 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

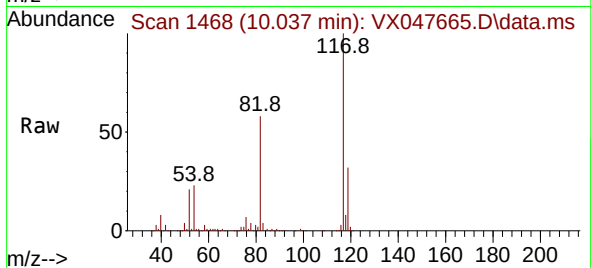
Tgt Ion: 95 Resp: 140015
Ion Ratio Lower Upper
95 100
174 72.0 0.0 141.6
176 69.0 0.0 138.4



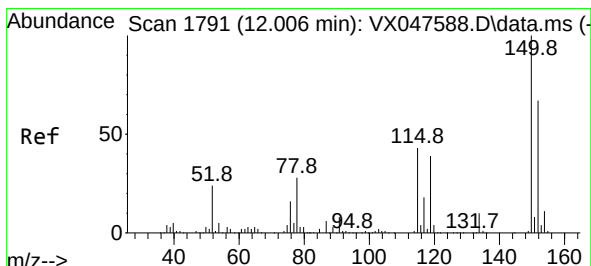
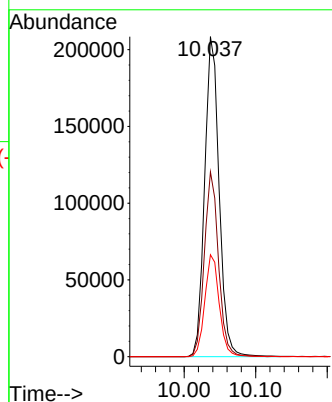
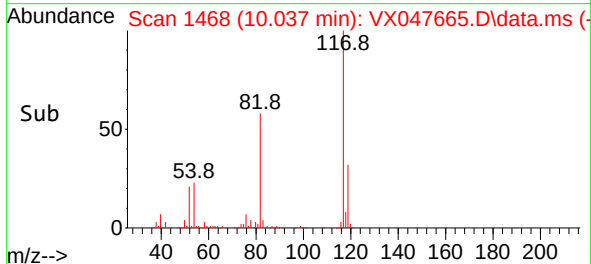


#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.037 min Scan# 1468
Delta R.T. -0.000 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Instrument :
MSVOA_X
ClientSampleId :

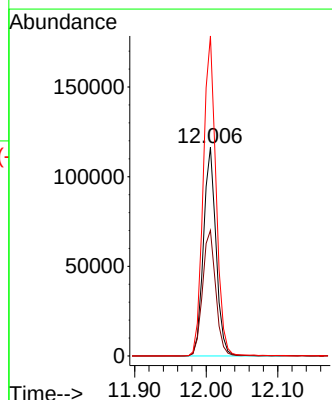
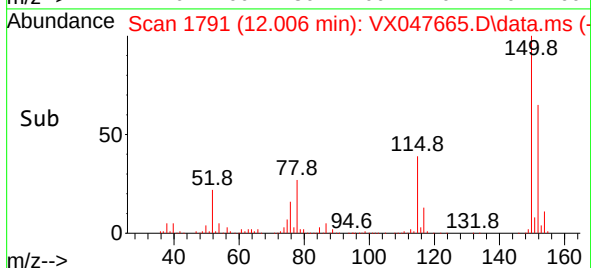
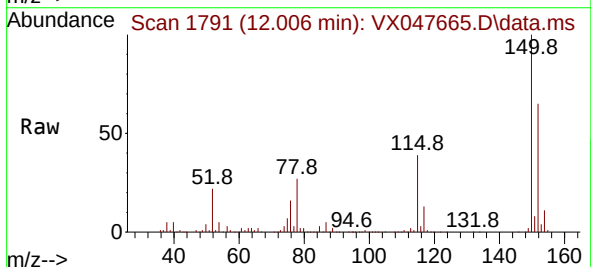


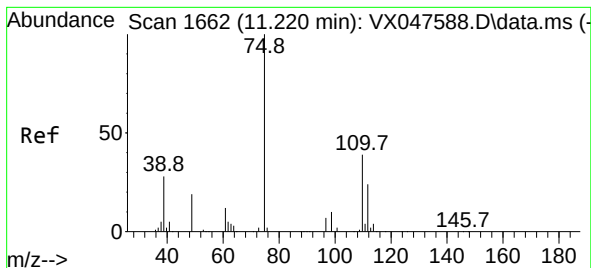
Tgt Ion:117 Resp: 293829
Ion Ratio Lower Upper
117 100
82 57.8 47.8 71.6
119 31.9 25.2 37.8



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.006 min Scan# 1791
Delta R.T. -0.000 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Tgt Ion:152 Resp: 142184
Ion Ratio Lower Upper
152 100
115 62.9 44.9 134.5
150 156.6 0.0 352.0





#76

1,2,3-Trichloropropane

Concen: 25.201 ug/l

RT: 11.061 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX047665.D

Acq: 19 Sep 2025 11:26

Instrument :

MSVOA_X

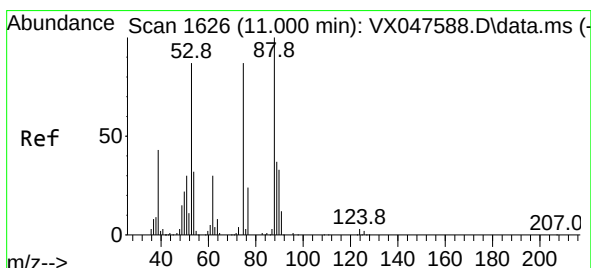
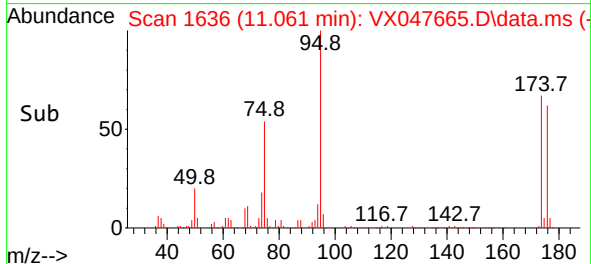
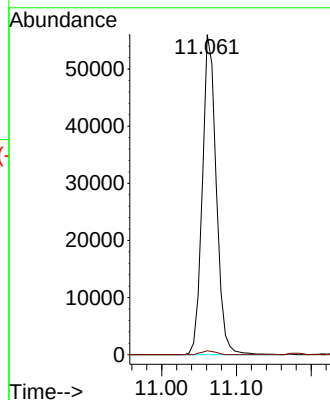
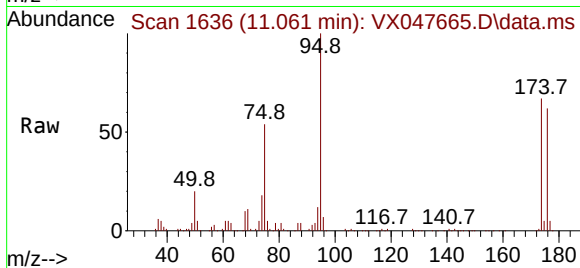
ClientSampleId :

Tgt Ion: 75 Resp: 72548

Ion Ratio Lower Upper

75 100

77 1.3 18.8 56.4#



#81

trans-1,4-Dichloro-2-butene

Concen: 64.266 ug/l

RT: 11.061 min Scan# 1636

Delta R.T. 0.061 min

Lab File: VX047665.D

Acq: 19 Sep 2025 11:26

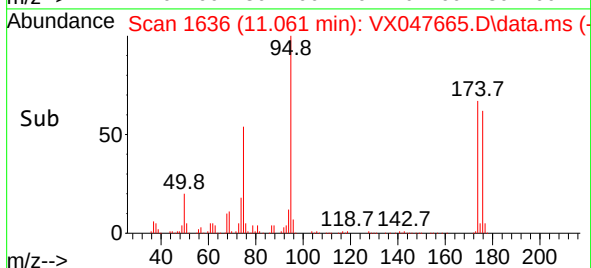
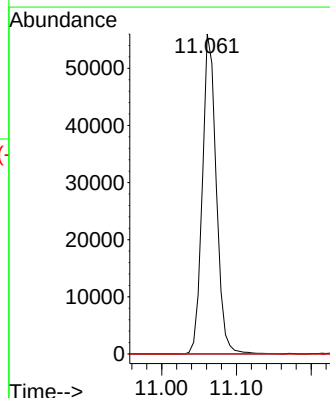
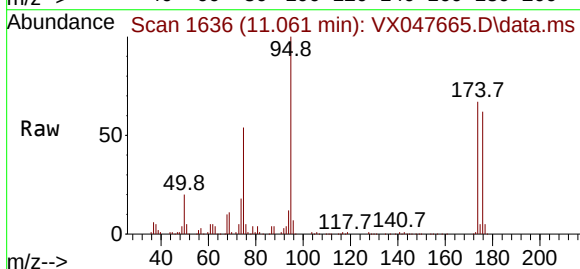
Tgt Ion: 75 Resp: 72548

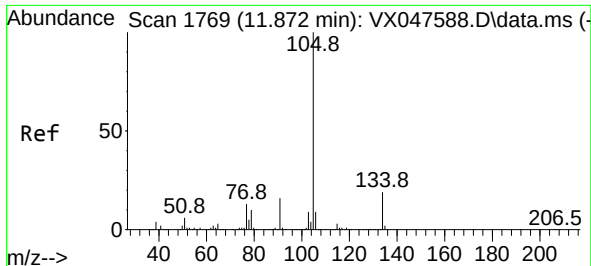
Ion Ratio Lower Upper

75 100

53 0.0 83.4 125.2#

89 0.0 36.3 54.5#

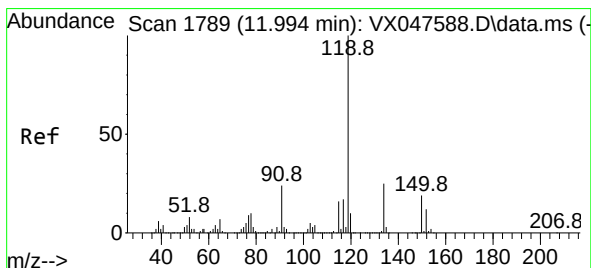
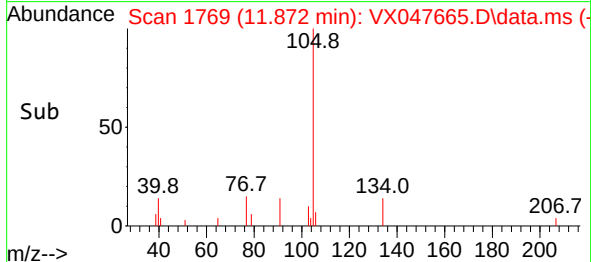
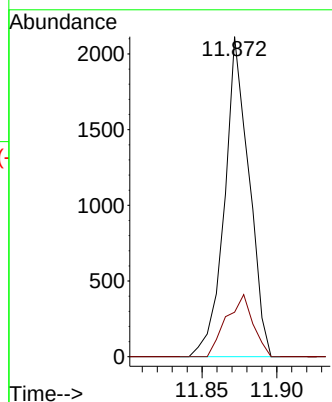
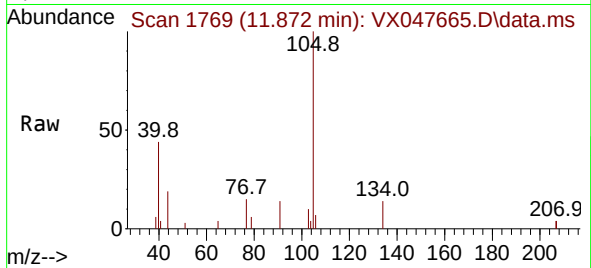




#85
sec-Butylbenzene
Concen: 0.223 ug/l
RT: 11.872 min Scan# 1769
Delta R.T. -0.000 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

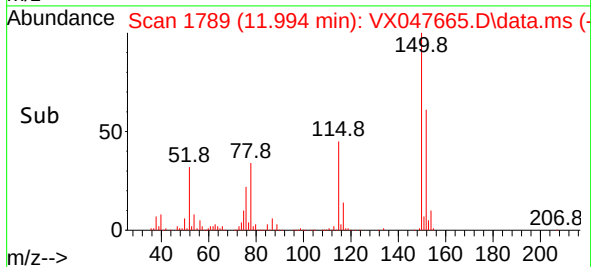
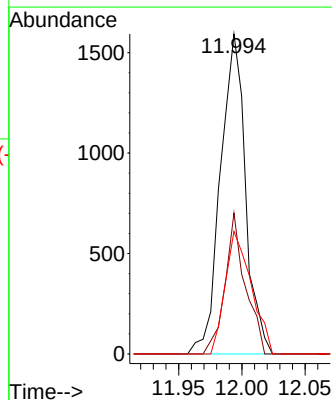
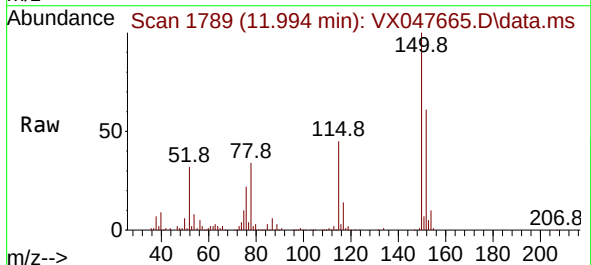
Instrument :
MSVOA_X
ClientSampleId :

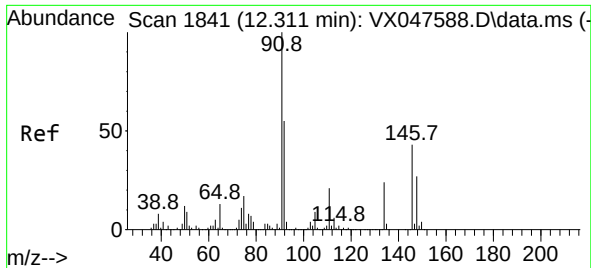
Tgt Ion:105 Resp: 2404
Ion Ratio Lower Upper
105 100
134 21.2 9.8 29.5



#86
p-Isopropyltoluene
Concen: 0.239 ug/l
RT: 11.994 min Scan# 1789
Delta R.T. -0.000 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Tgt Ion:119 Resp: 2188
Ion Ratio Lower Upper
119 100
134 35.6 12.6 37.8
91 39.9 12.6 37.6#

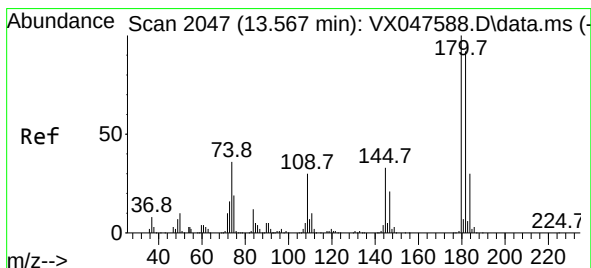
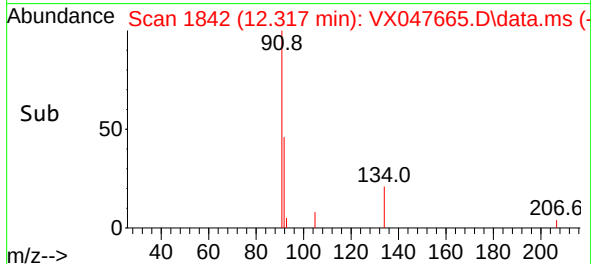
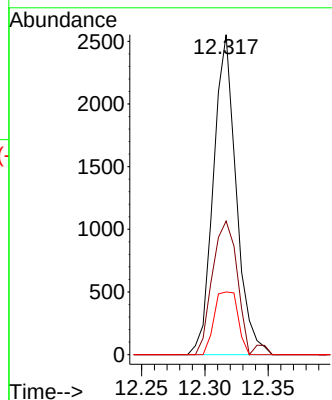
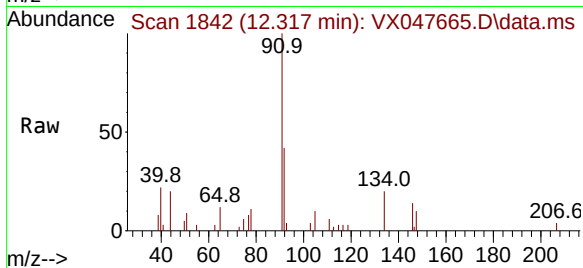




#89
n-Butylbenzene
Concen: 0.377 ug/l
RT: 12.317 min Scan# 1842
Delta R.T. 0.006 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

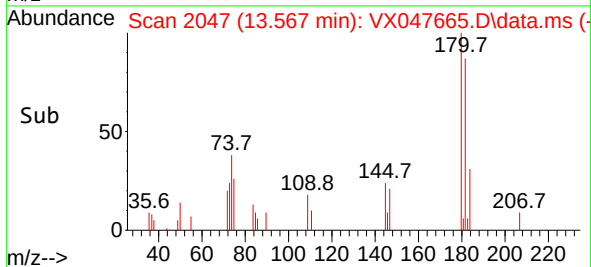
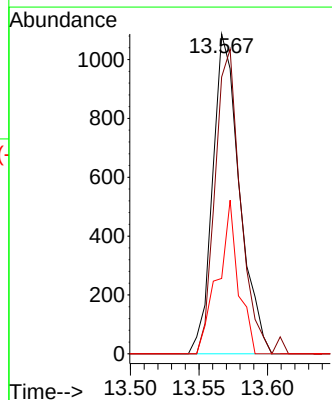
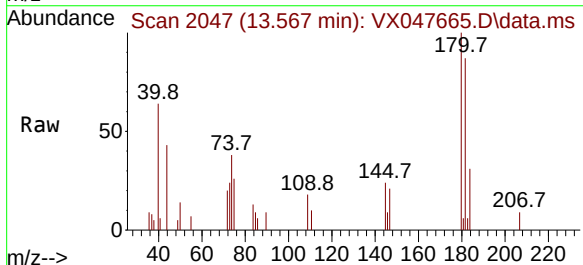
Instrument :
MSVOA_X
ClientSampleId :

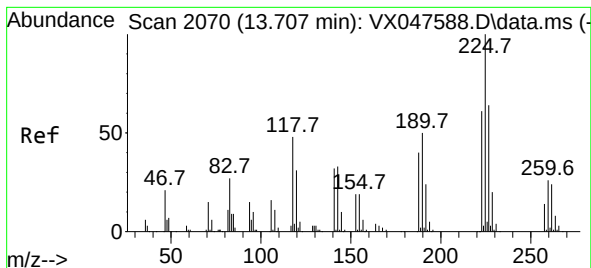
Tgt Ion: 91	Resp:	3192
Ion Ratio	Lower	Upper
91	100	
92	46.8	27.6 82.7
134	20.4	12.6 37.8



#93
1,2,4-Trichlorobenzene
Concen: 0.485 ug/l
RT: 13.567 min Scan# 2047
Delta R.T. -0.000 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Tgt Ion: 180	Resp:	1484
Ion Ratio	Lower	Upper
180	100	
182	90.7	46.6 139.8
145	36.4	16.4 49.1





#94

Hexachlorobutadiene

Concen: 1.393 ug/l

RT: 13.707 min Scan# 2070

Delta R.T. -0.000 min

Lab File: VX047665.D

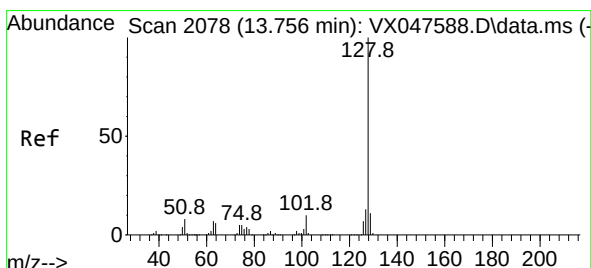
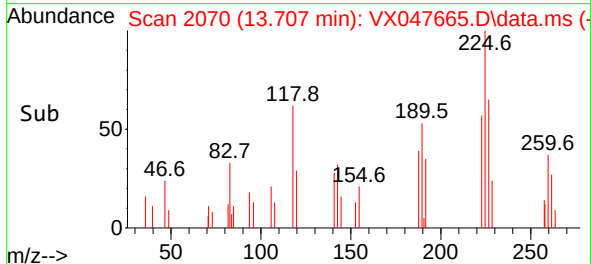
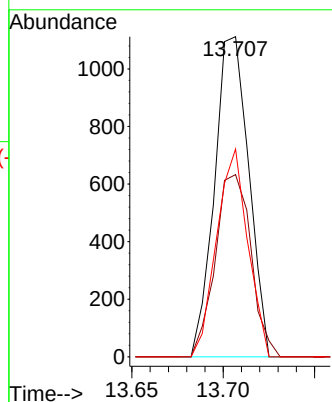
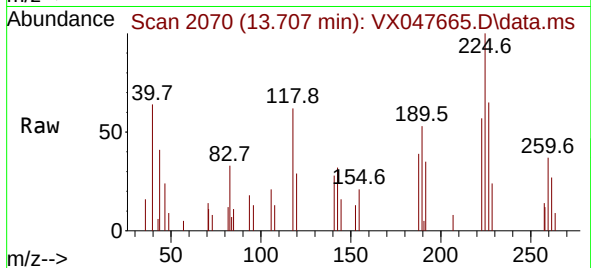
Acq: 19 Sep 2025 11:26

Instrument :

MSVOA_X

ClientSampleId :

Tgt Ion:	225	Resp:	1449
Ion Ratio	Lower	Upper	
225	100		
223	59.5	31.7	95.1
227	59.1	32.0	96.0



#95

Naphthalene

Concen: 0.377 ug/l

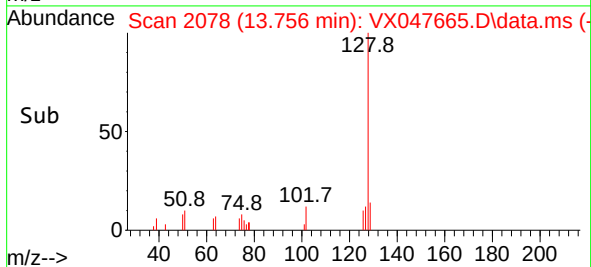
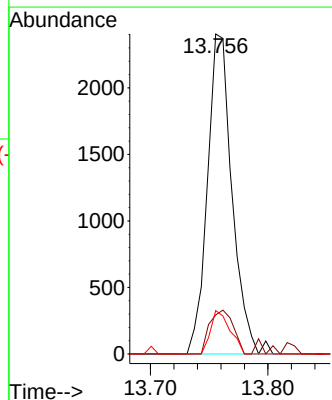
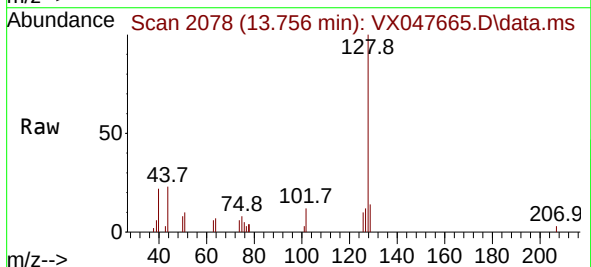
RT: 13.756 min Scan# 2078

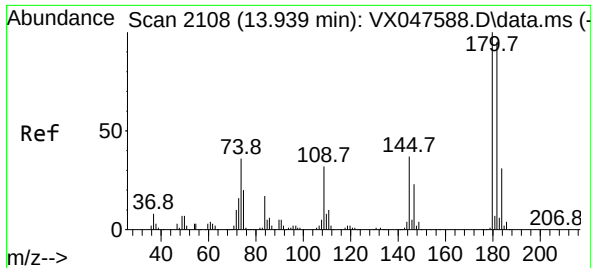
Delta R.T. -0.000 min

Lab File: VX047665.D

Acq: 19 Sep 2025 11:26

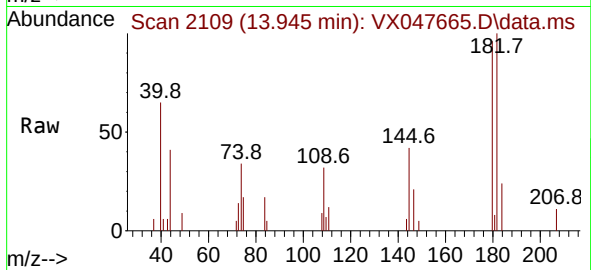
Tgt Ion:	128	Resp:	3517
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.2	15.2
129	10.6	8.8	13.2





#96
1,2,3-Trichlorobenzene
Concen: 0.474 ug/l
RT: 13.945 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047665.D
Acq: 19 Sep 2025 11:26

Instrument :
MSVOA_X
ClientSampleId :



Tgt Ion	Ratio	Lower	Upper
180	100		
182	100.3	47.6	142.8
145	35.9	17.9	53.7

