

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX080725\
 Data File : VX047257.D
 Acq On : 07 Aug 2025 13:06
 Operator : JC/MD
 Sample : Q2790-01
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 250806078-01 VOA

Quant Time: Aug 08 04:34:56 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X072125W.M
 Quant Title : SW846 8260
 QLast Update : Tue Jul 22 03:59:51 2025
 Response via : Initial Calibration

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

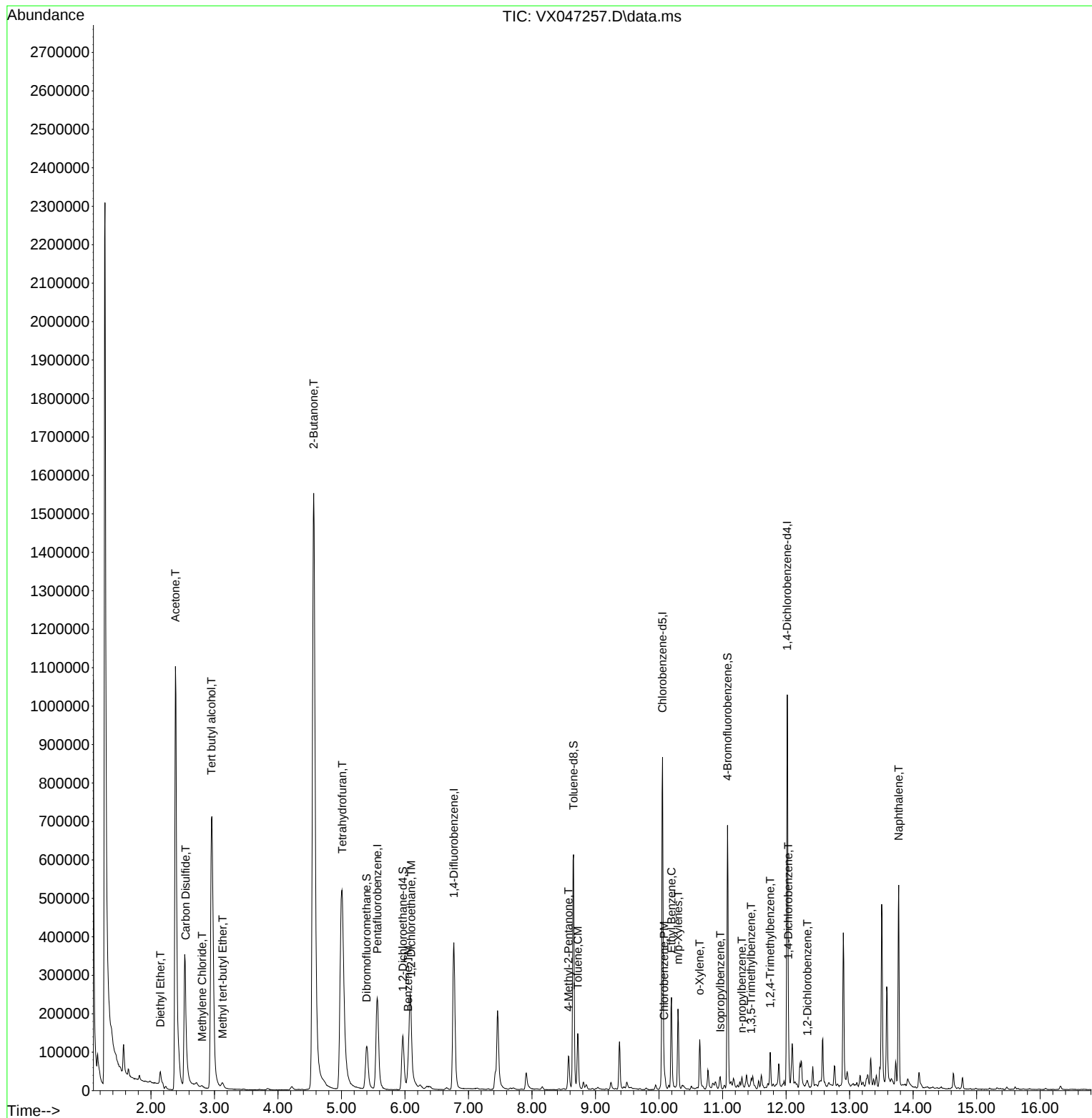
Internal Standards						
1) Pentafluorobenzene	5.562	168	239585	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	411318	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	376839	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	195537	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	146093	48.951	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	=	97.900%	
35) Dibromofluoromethane	5.397	113	104688	41.222	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	=	82.440%	
50) Toluene-d8	8.653	98	373923	45.465	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	=	90.920%#	
62) 4-Bromofluorobenzene	11.079	95	183021	51.638	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	=	103.280%	
Target Compounds						
					Qvalue	
8) Diethyl Ether	2.148	74	12390	6.964	ug/l	99
11) Tert butyl alcohol	2.953	59	802930	2389.467	ug/l	95
16) Acetone	2.386	43	1501067	1255.507	ug/l	99
17) Carbon Disulfide	2.544	76	60052	6.894	ug/l	97
19) Methyl tert-butyl Ether	3.129	73	15808	1.725	ug/l	95
20) Methylene Chloride	2.806	84	2014	0.612	ug/l	94
25) 2-Butanone	4.562	43	2539468	1458.730	ug/l	98
29) Tetrahydrofuran	5.013	42	354569	315.667	ug/l	98
40) Benzene	6.050	78	51048	4.075	ug/l	97
42) 1,2-Dichloroethane	6.098	62	8239	1.867	ug/l	81
51) 4-Methyl-2-Pentanone	8.574	43	58272	15.765	ug/l	97
52) Toluene	8.720	92	53779	6.981	ug/l	97
65) Chlorobenzene	10.079	112	12387	1.403	ug/l	98
67) Ethyl Benzene	10.195	91	139824	9.059	ug/l	99
68) m/p-Xylenes	10.299	106	46098	7.981	ug/l	98
69) o-Xylene	10.640	106	27143	4.939	ug/l	100
73) Isopropylbenzene	10.963	105	14783	0.958	ug/l	95
78) n-propylbenzene	11.305	91	11088	0.601	ug/l	99
80) 1,3,5-Trimethylbenzene	11.451	105	8703	0.683	ug/l	98
84) 1,2,4-Trimethylbenzene	11.750	105	37382	2.941	ug/l	98
88) 1,4-Dichlorobenzene	12.036	146	29946	4.204	ug/l	95
91) 1,2-Dichlorobenzene	12.335	146	3646	0.543	ug/l	90
95) Naphthalene	13.774	128	305822	23.498	ug/l	100

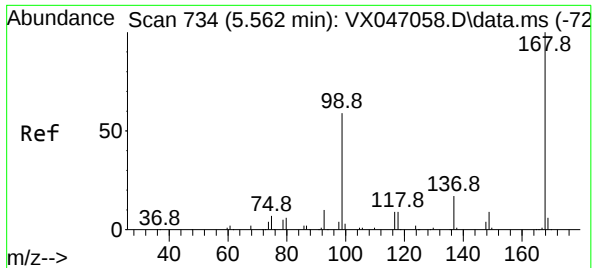
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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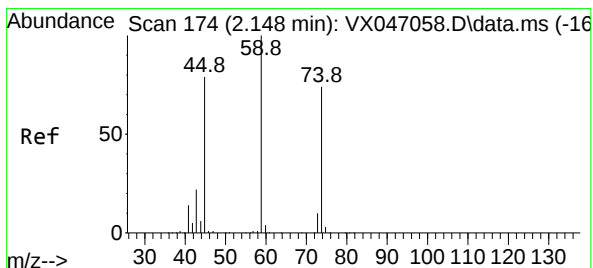
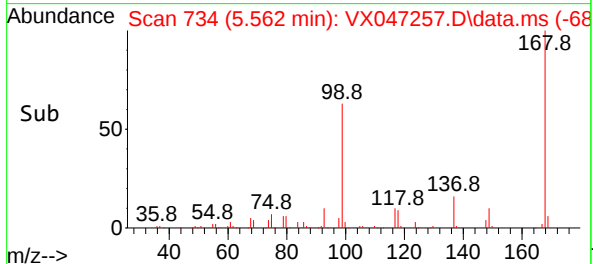
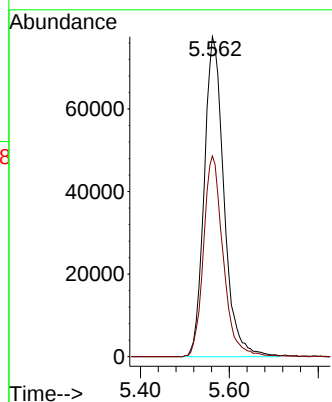
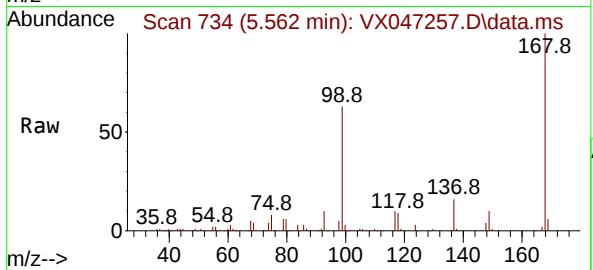




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 734
Delta R.T. -0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

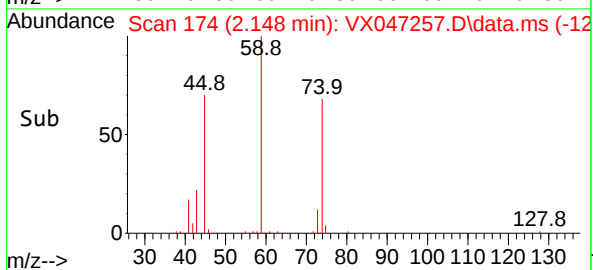
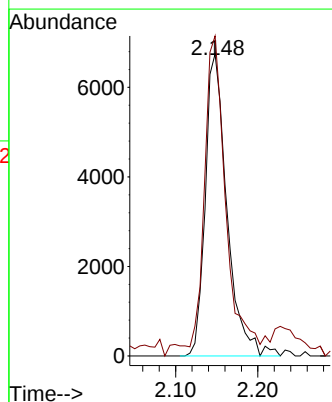
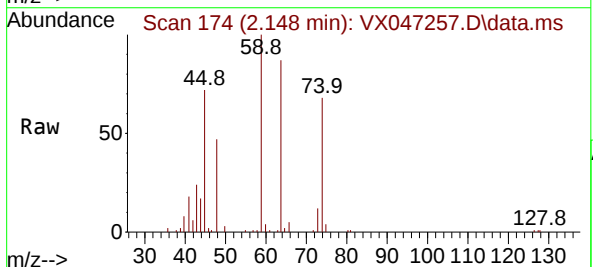
Instrument :
MSVOA_X
ClientSampleId :
250806078-01 VOA

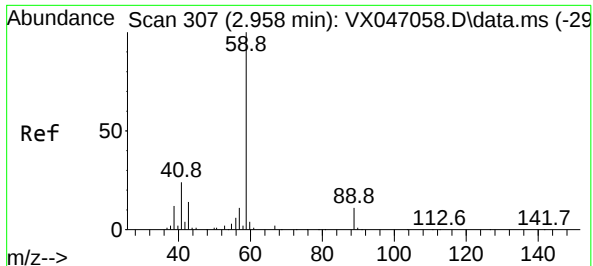
Tgt Ion:168 Resp: 239585
Ion Ratio Lower Upper
168 100
99 62.8 48.0 72.0



#8
Diethyl Ether
Concen: 6.964 ug/l
RT: 2.148 min Scan# 174
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

Tgt Ion: 74 Resp: 12390
Ion Ratio Lower Upper
74 100
45 105.4 53.0 159.0

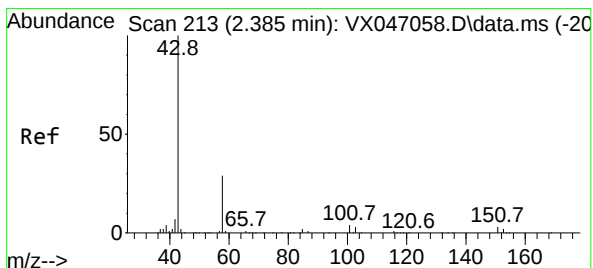
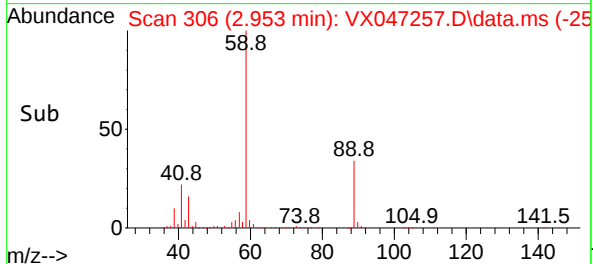
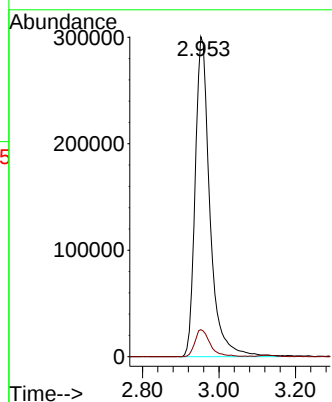
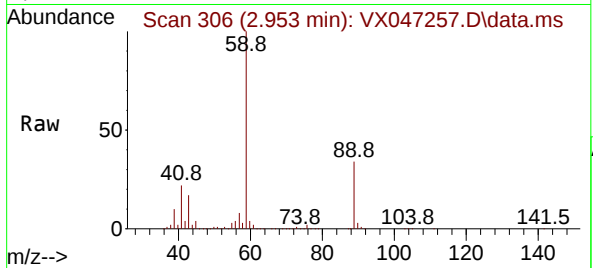




#11
Tert butyl alcohol
Concen: 2389.467 ug/l
RT: 2.953 min Scan# 307
Delta R.T. -0.005 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

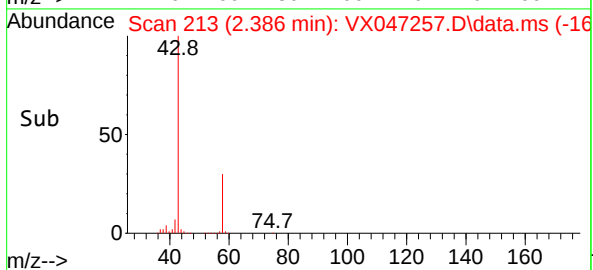
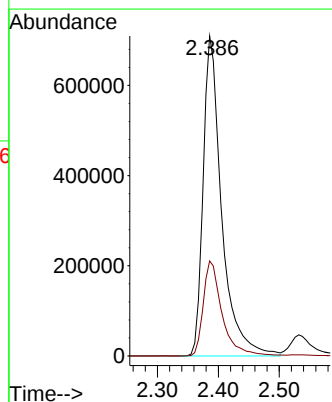
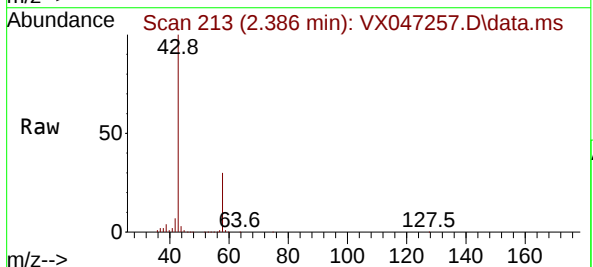
Instrument :
MSVOA_X
ClientSampleId :
250806078-01 VOA

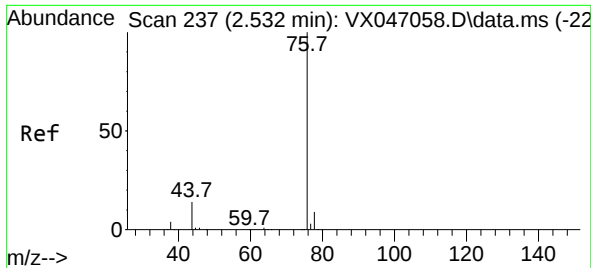
Tgt Ion: 59 Resp: 802930
Ion Ratio Lower Upper
59 100
57 8.8 8.5 12.7



#16
Acetone
Concen: 1255.507 ug/l
RT: 2.386 min Scan# 213
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

Tgt Ion: 43 Resp: 1501067
Ion Ratio Lower Upper
43 100
58 29.7 24.0 36.0

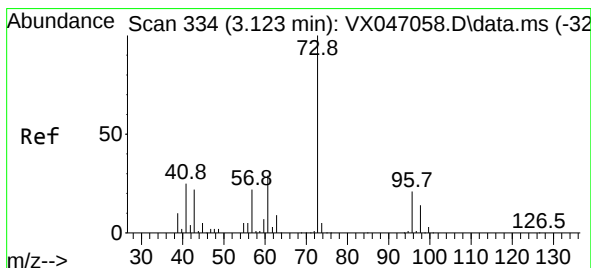
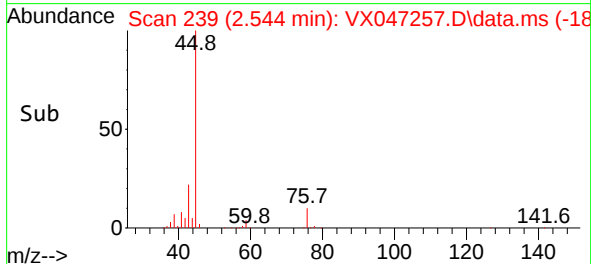
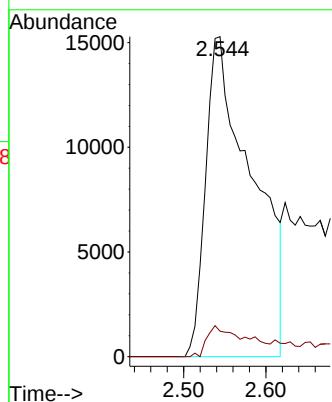
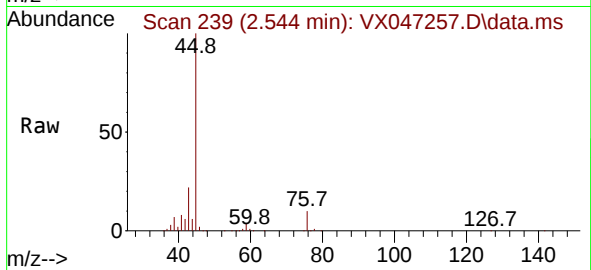




#17
Carbon Disulfide
Concen: 6.894 ug/l
RT: 2.544 min Scan# 21
Delta R.T. 0.013 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

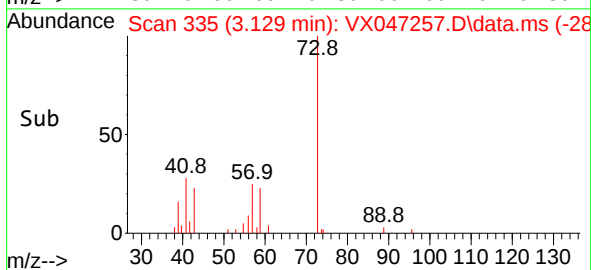
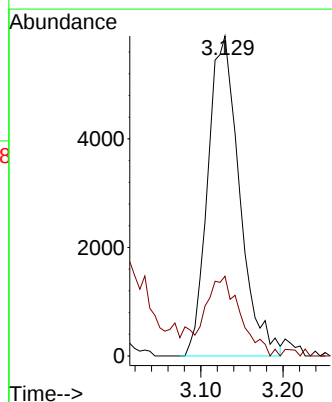
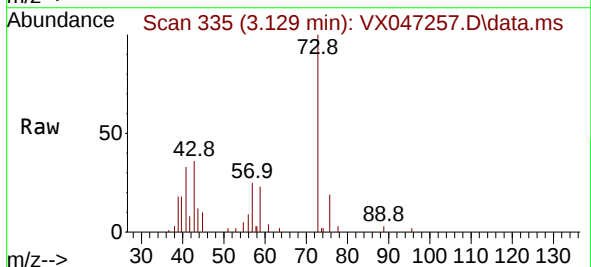
Instrument :
MSVOA_X
ClientSampleId :
250806078-01 VOA

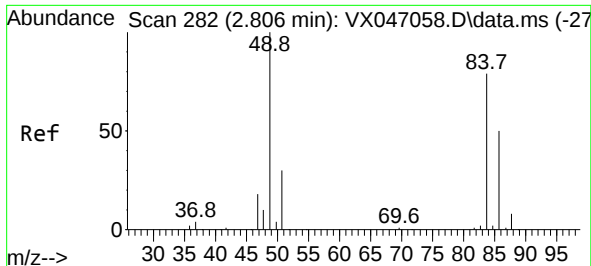
Tgt Ion: 76 Resp: 60052
Ion Ratio Lower Upper
76 100
78 7.8 7.0 10.4



#19
Methyl tert-butyl Ether
Concen: 1.725 ug/l
RT: 3.129 min Scan# 335
Delta R.T. 0.006 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

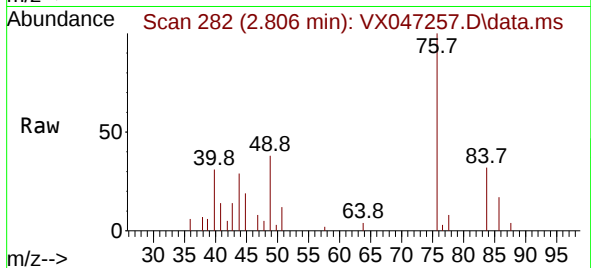
Tgt Ion: 73 Resp: 15808
Ion Ratio Lower Upper
73 100
57 24.4 17.7 26.5



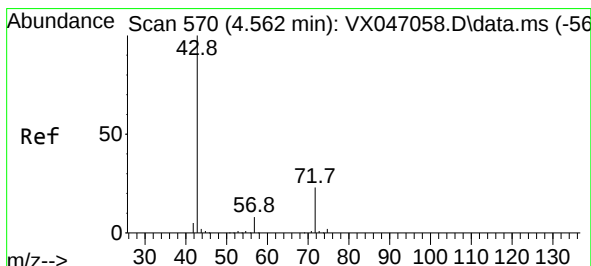
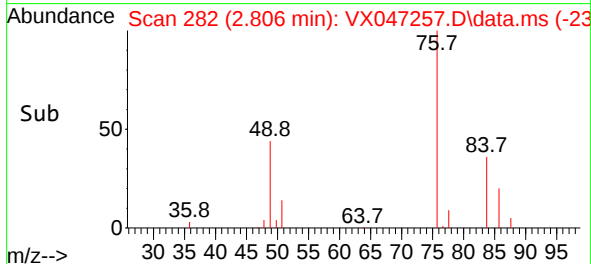
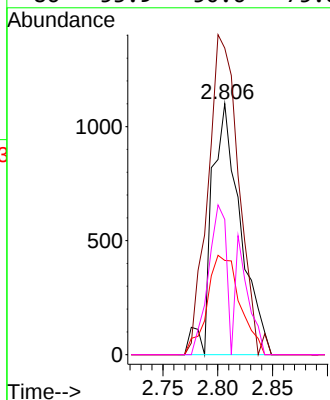


#20
Methylene Chloride
Concen: 0.612 ug/l
RT: 2.806 min Scan# 21
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

Instrument :
MSVOA_X
ClientSampleId :
250806078-01 VOA

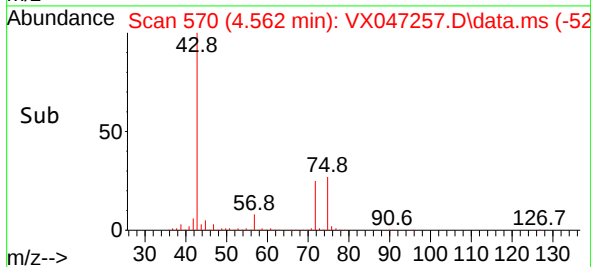
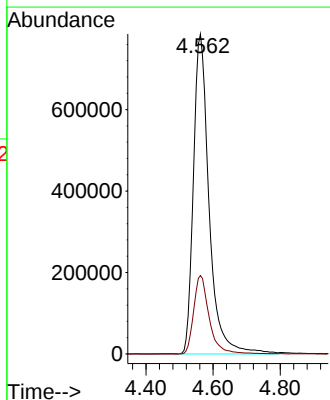
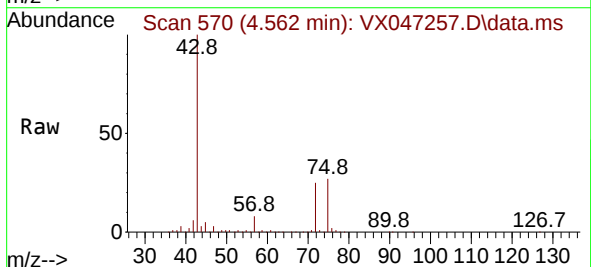


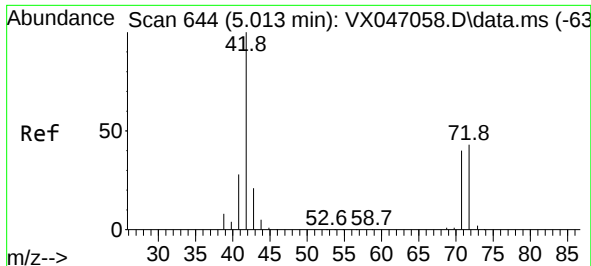
Tgt Ion:	84	Resp:	2014
Ion	Ratio	Lower	Upper
84	100		
49	122.1	101.6	152.4
51	37.5	30.3	45.5
86	53.9	50.6	75.8



#25
2-Butanone
Concen: 1458.730 ug/l
RT: 4.562 min Scan# 570
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

Tgt Ion:	43	Resp:	2539468
Ion	Ratio	Lower	Upper
43	100		
72	24.5	18.8	28.2





#29

Tetrahydrofuran

Concen: 315.667 ug/l

RT: 5.013 min Scan# 644

Delta R.T. 0.000 min

Lab File: VX047257.D

Acq: 07 Aug 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

250806078-01 VOA

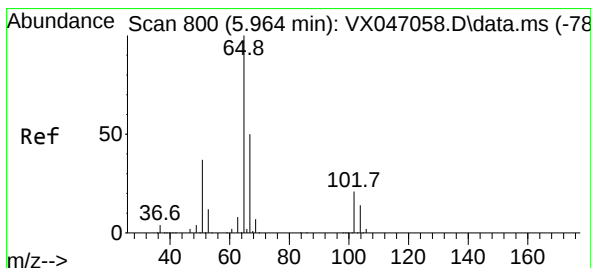
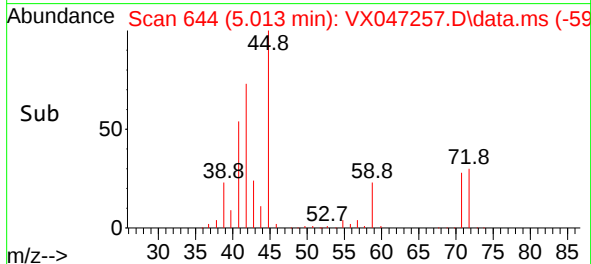
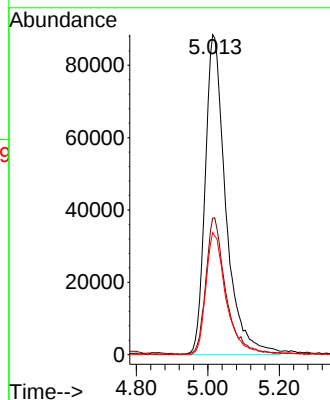
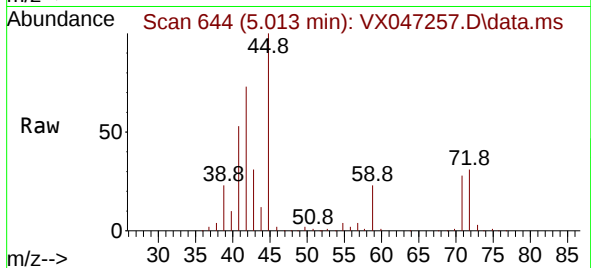
Tgt Ion: 42 Resp: 354569

Ion Ratio Lower Upper

42 100

72 41.2 33.7 50.5

71 37.5 31.0 46.4



#33

1,2-Dichloroethane-d4

Concen: 48.951 ug/l

RT: 5.964 min Scan# 800

Delta R.T. 0.000 min

Lab File: VX047257.D

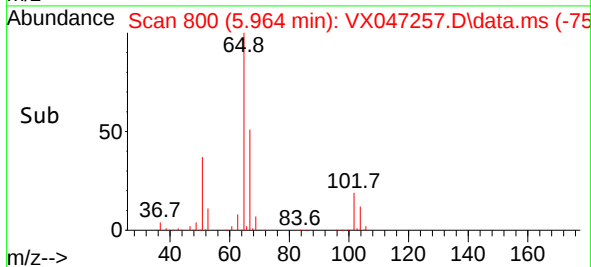
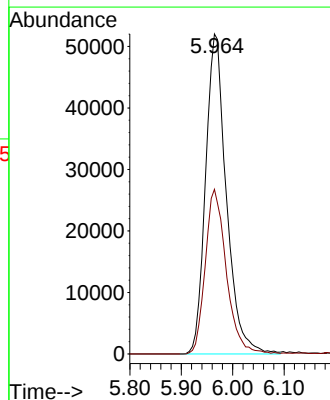
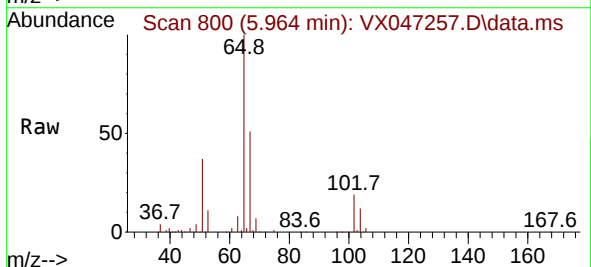
Acq: 07 Aug 2025 13:06

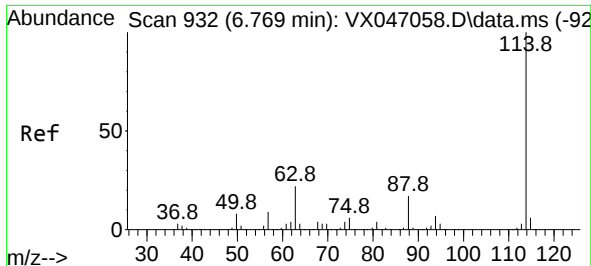
Tgt Ion: 65 Resp: 146093

Ion Ratio Lower Upper

65 100

67 52.1 0.0 104.8

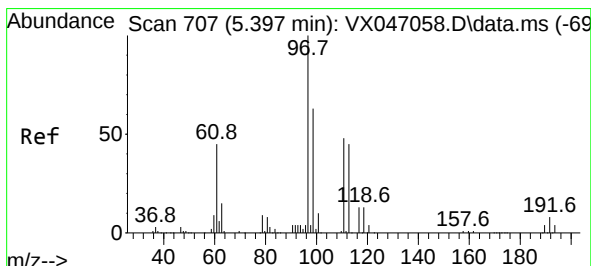
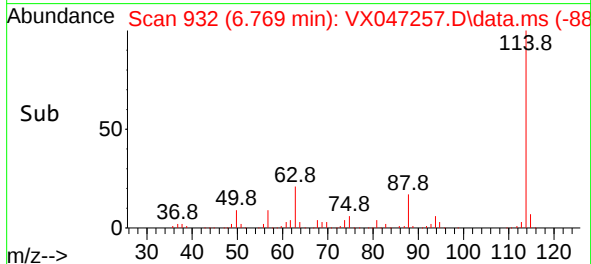
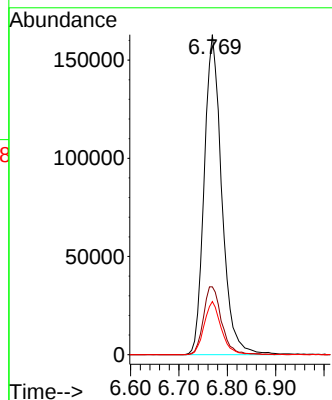
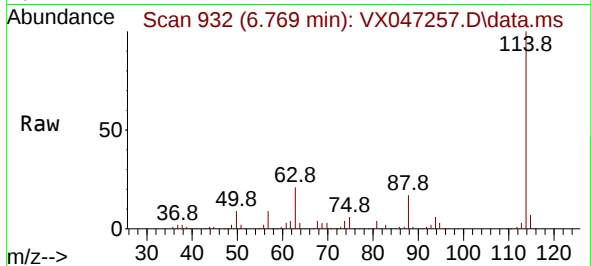




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 6.769 min Scan# 911
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

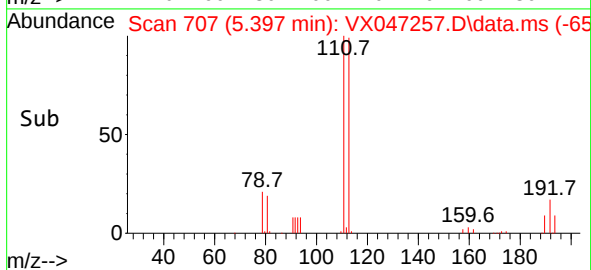
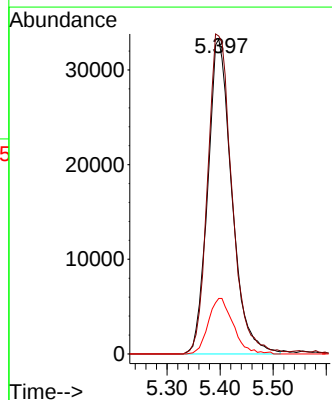
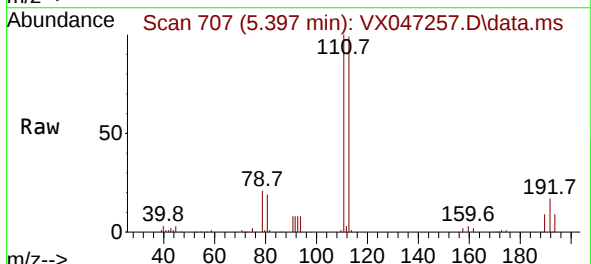
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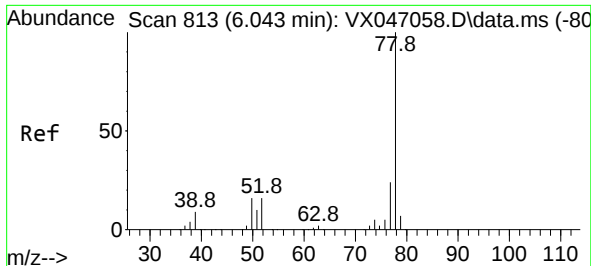
Tgt Ion:114 Resp: 411318
Ion Ratio Lower Upper
114 100
63 21.2 0.0 43.2
88 16.6 0.0 33.8



#35
Dibromofluoromethane
Concen: 41.222 ug/l
RT: 5.397 min Scan# 707
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

Tgt Ion:113 Resp: 104688
Ion Ratio Lower Upper
113 100
111 103.0 82.6 124.0
192 18.3 14.9 22.3

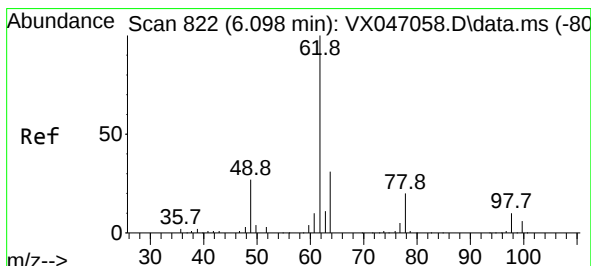
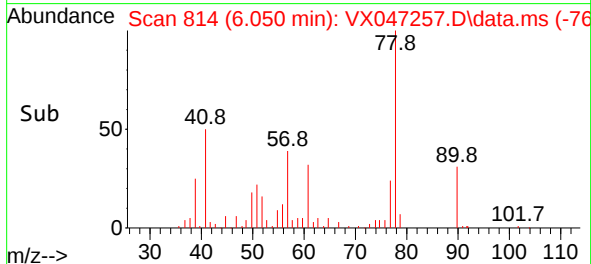
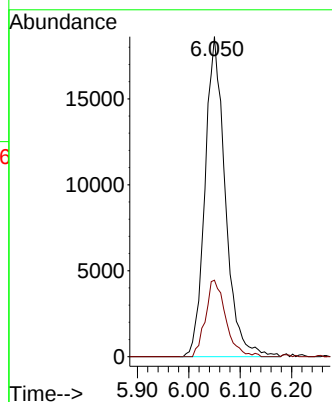
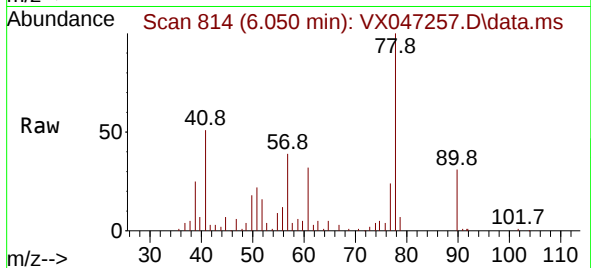




#40
Benzene
Concen: 4.075 ug/l
RT: 6.050 min Scan# 813
Delta R.T. 0.006 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

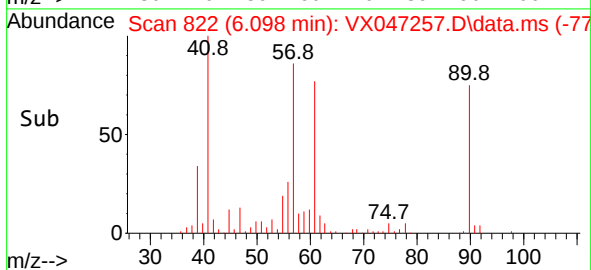
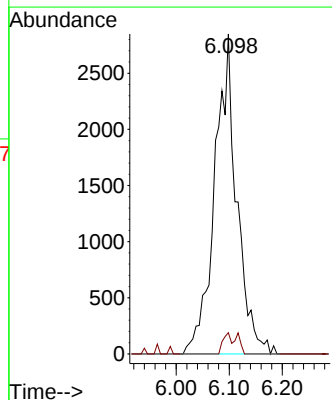
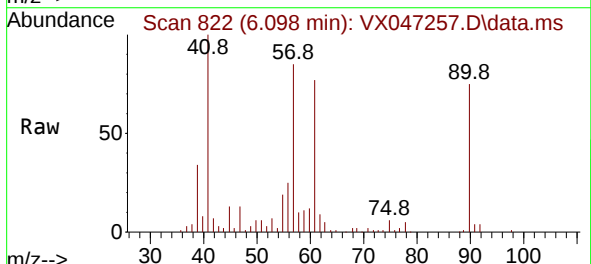
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250806078-01 VOA

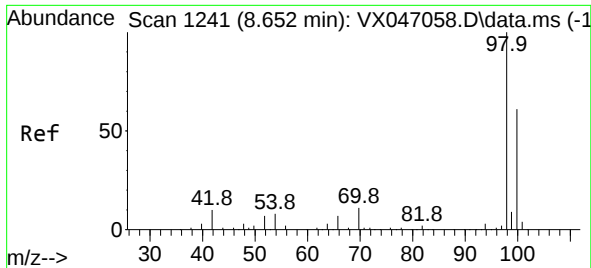
Tgt Ion: 78 Resp: 51048
Ion Ratio Lower Upper
78 100
77 22.4 19.0 28.4



#42
1,2-Dichloroethane
Concen: 1.867 ug/l
RT: 6.098 min Scan# 822
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

Tgt Ion: 62 Resp: 8239
Ion Ratio Lower Upper
62 100
98 2.4 0.0 18.8

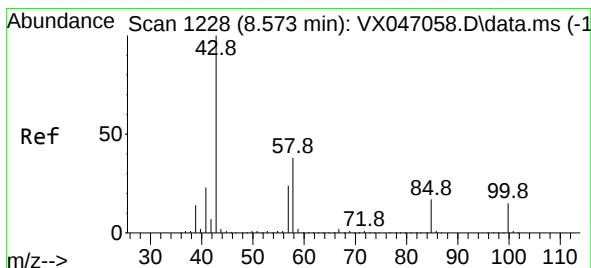
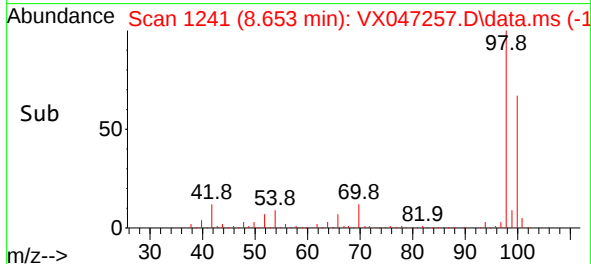
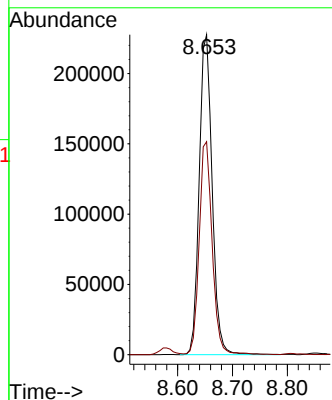
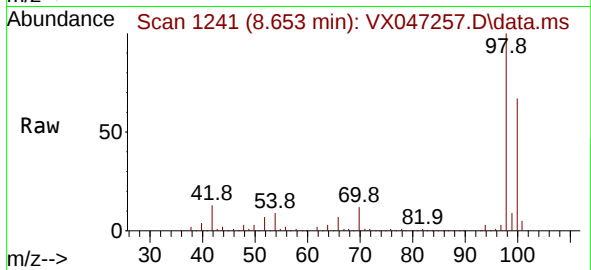




#50
Toluene-d8
Concen: 45.465 ug/l
RT: 8.653 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

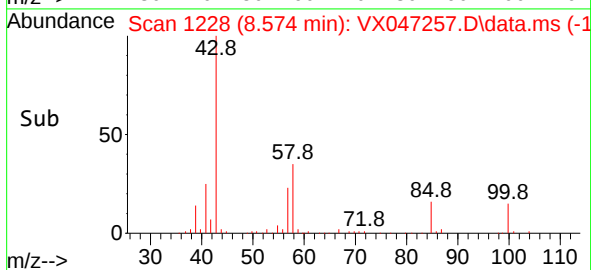
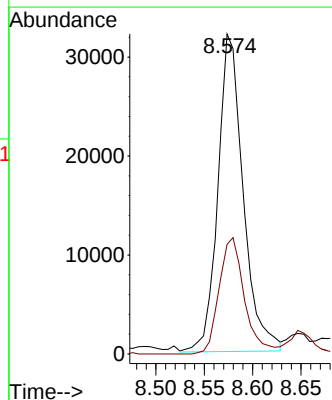
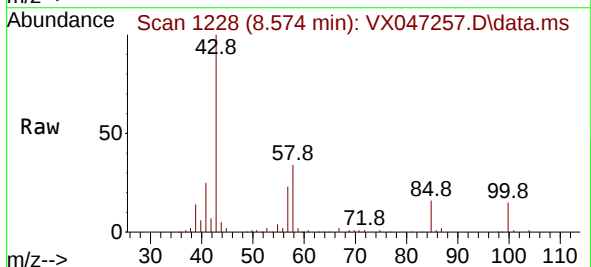
Instrument :
MSVOA_X
ClientSampleId :
250806078-01 VOA

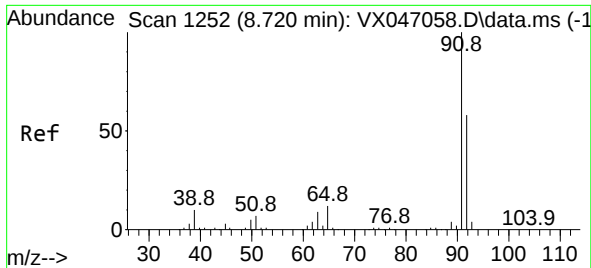
Tgt Ion: 98 Resp: 373923
Ion Ratio Lower Upper
98 100
100 66.8 53.3 79.9



#51
4-Methyl-2-Pentanone
Concen: 15.765 ug/l
RT: 8.574 min Scan# 1228
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

Tgt Ion: 43 Resp: 58272
Ion Ratio Lower Upper
43 100
58 36.6 30.6 45.8

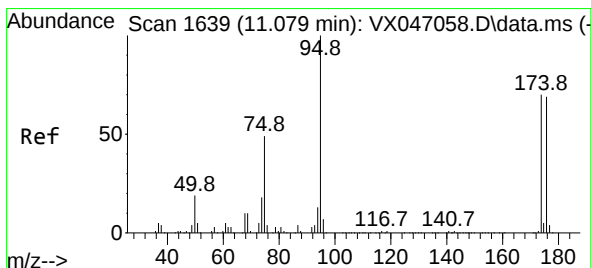
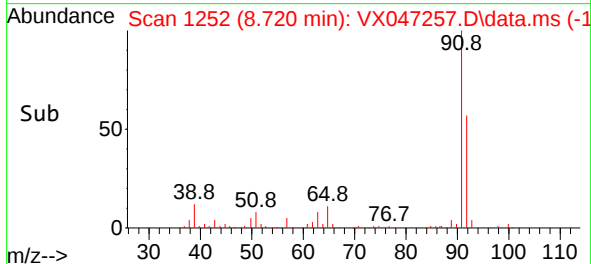
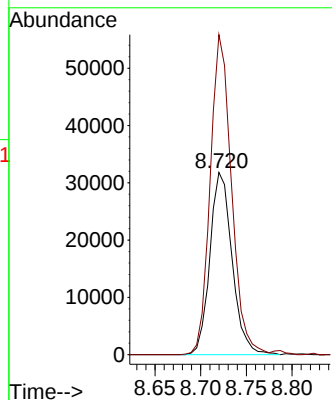
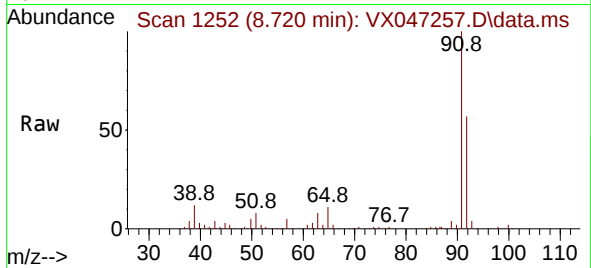




#52
Toluene
Concen: 6.981 ug/l
RT: 8.720 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

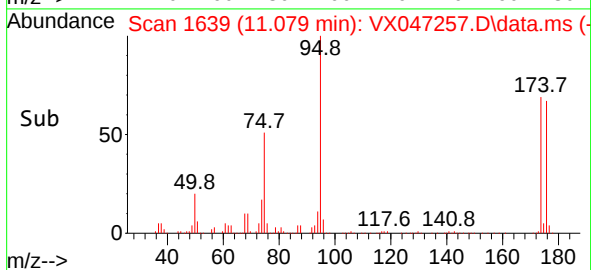
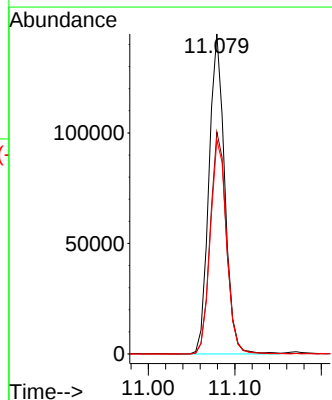
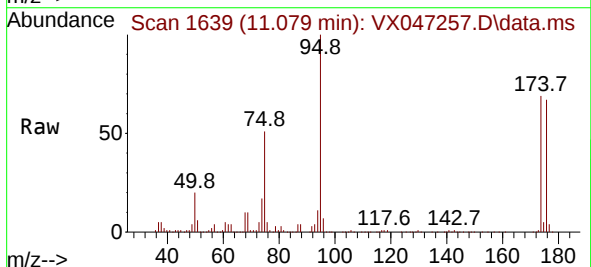
Instrument :
MSVOA_X
ClientSampleId :
250806078-01 VOA

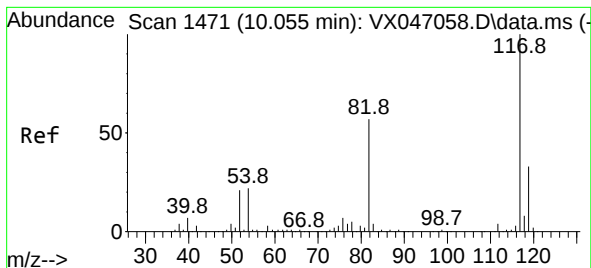
Tgt Ion: 92 Resp: 53779
Ion Ratio Lower Upper
92 100
91 168.1 137.9 206.9



#62
4-Bromofluorobenzene
Concen: 51.638 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

Tgt Ion: 95 Resp: 183021
Ion Ratio Lower Upper
95 100
174 71.2 0.0 144.6
176 69.0 0.0 139.6

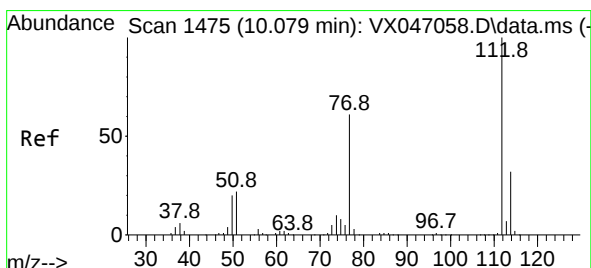
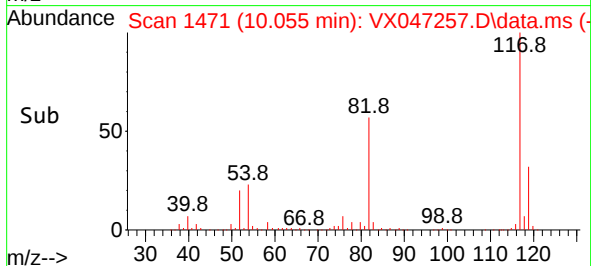
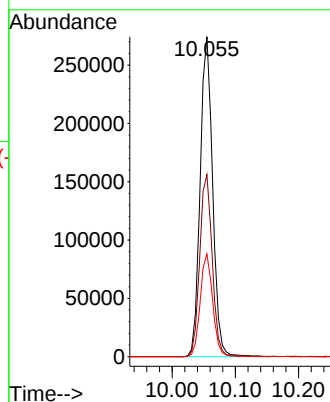
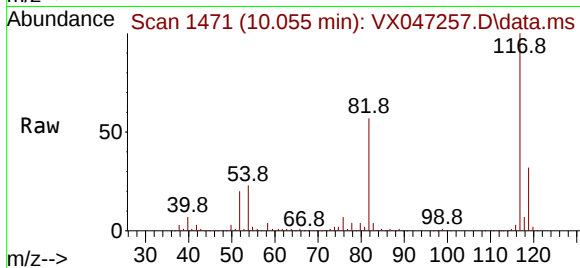




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

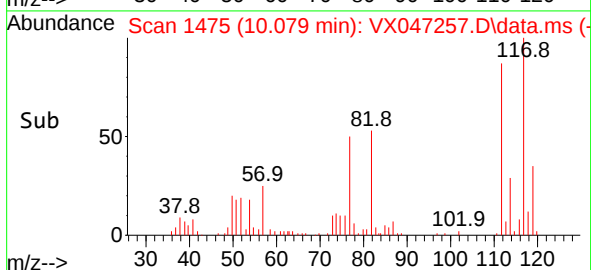
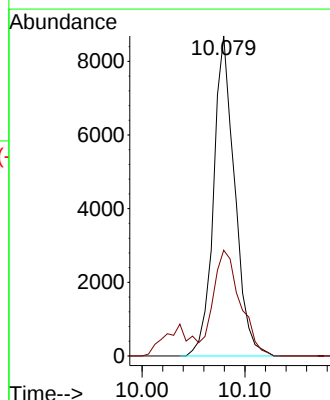
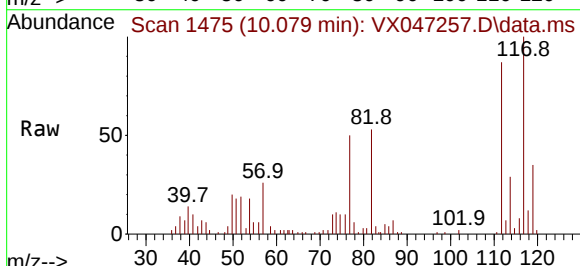
Instrument :
MSVOA_X
ClientSampleId :
250806078-01 VOA

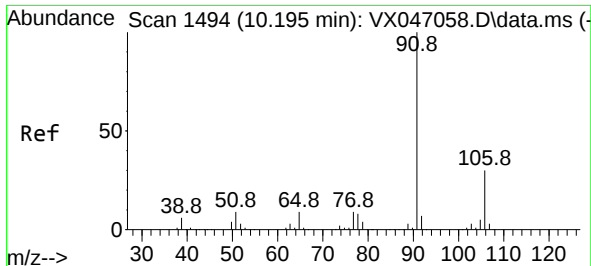
Tgt Ion:117 Resp: 376839
Ion Ratio Lower Upper
117 100
82 56.9 45.4 68.2
119 32.1 26.1 39.1



#65
Chlorobenzene
Concen: 1.403 ug/l
RT: 10.079 min Scan# 1475
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

Tgt Ion:112 Resp: 12387
Ion Ratio Lower Upper
112 100
114 33.1 25.8 38.6





#67

Ethyl Benzene

Concen: 9.059 ug/l

RT: 10.195 min Scan# 1494

Delta R.T. 0.000 min

Lab File: VX047257.D

Acq: 07 Aug 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

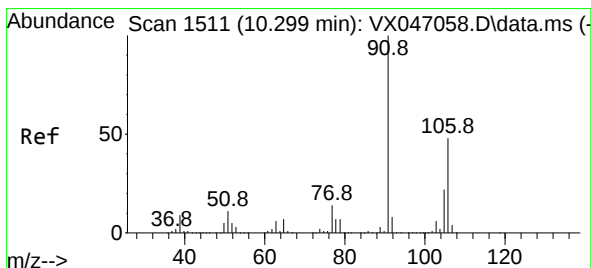
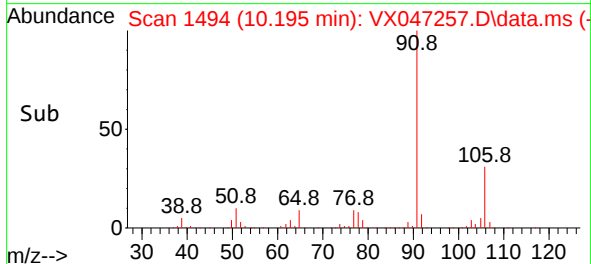
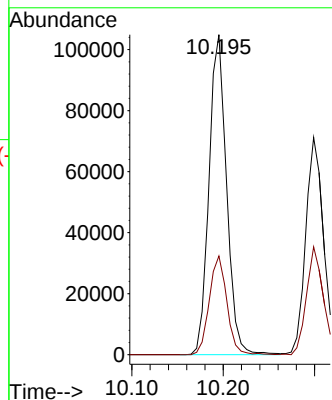
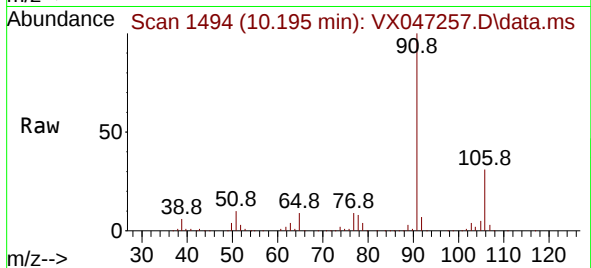
250806078-01 VOA

Tgt Ion: 91 Resp: 139824

Ion Ratio Lower Upper

91 100

106 30.8 24.2 36.4



#68

m/p-Xylenes

Concen: 7.981 ug/l

RT: 10.299 min Scan# 1511

Delta R.T. 0.000 min

Lab File: VX047257.D

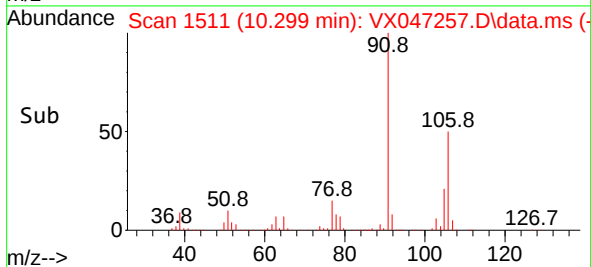
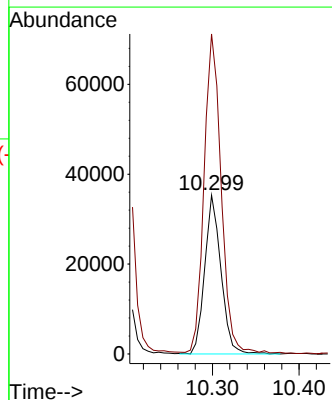
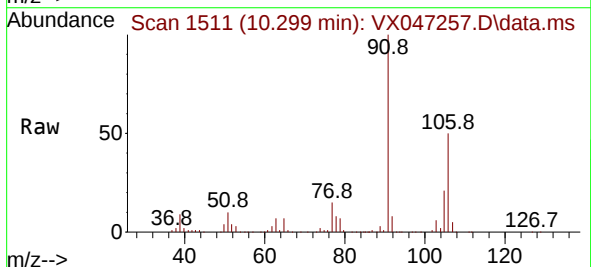
Acq: 07 Aug 2025 13:06

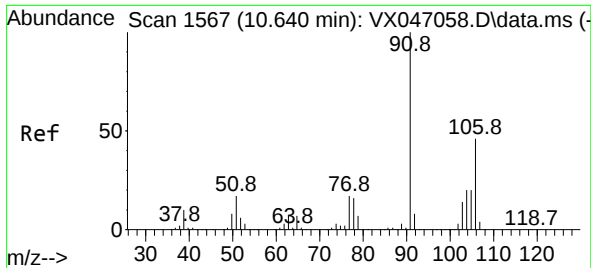
Tgt Ion:106 Resp: 46098

Ion Ratio Lower Upper

106 100

91 212.2 167.4 251.0

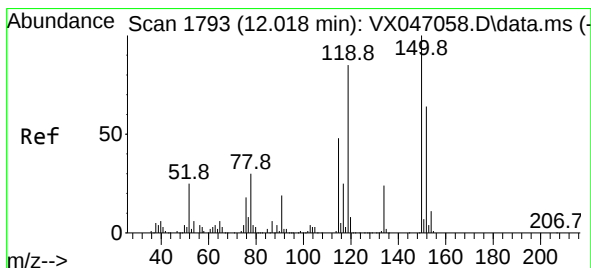
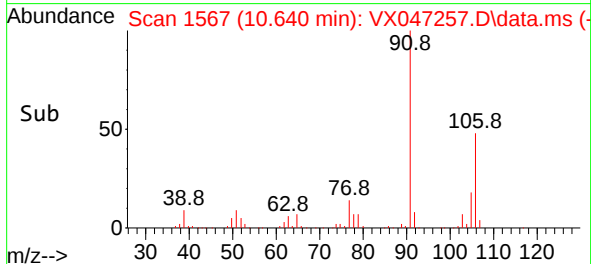
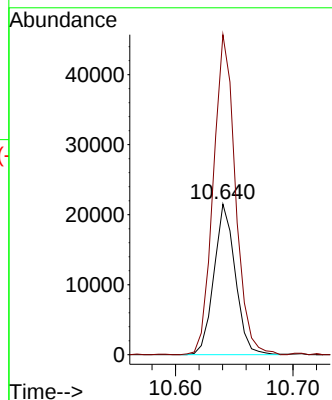
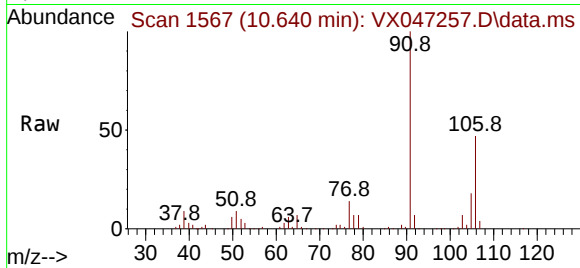




#69
o-Xylene
Concen: 4.939 ug/l
RT: 10.640 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

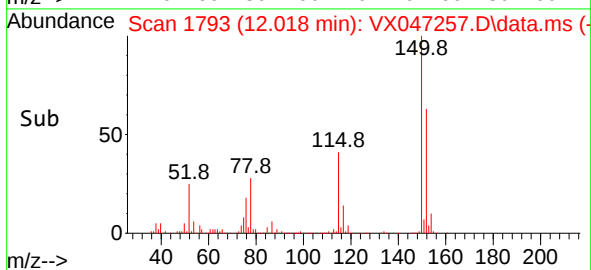
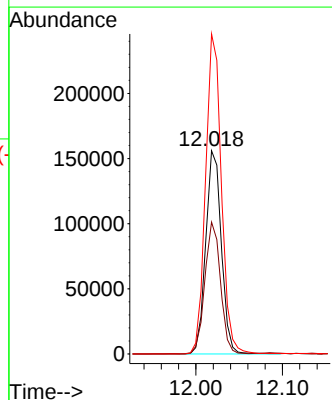
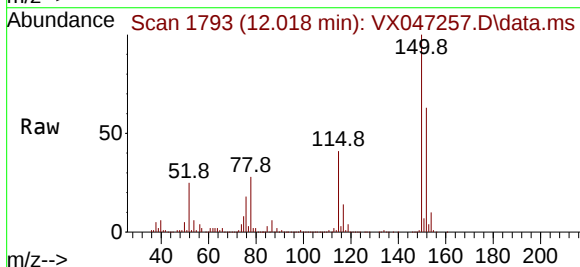
Instrument :
MSVOA_X
ClientSampleId :
250806078-01 VOA

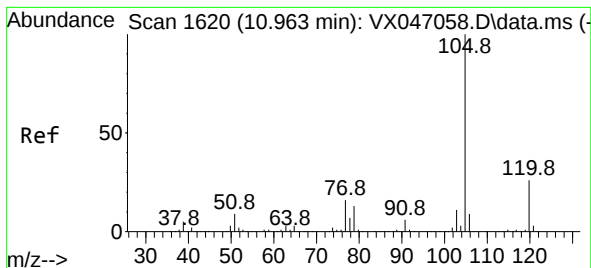
Tgt Ion:106 Resp: 27143
Ion Ratio Lower Upper
106 100
91 220.4 110.3 331.0



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 1793
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

Tgt Ion:152 Resp: 195537
Ion Ratio Lower Upper
152 100
115 64.4 45.6 136.7
150 159.7 0.0 354.6





#73

Isopropylbenzene

Concen: 0.958 ug/l

RT: 10.963 min Scan# 1620

Delta R.T. 0.000 min

Lab File: VX047257.D

Acq: 07 Aug 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

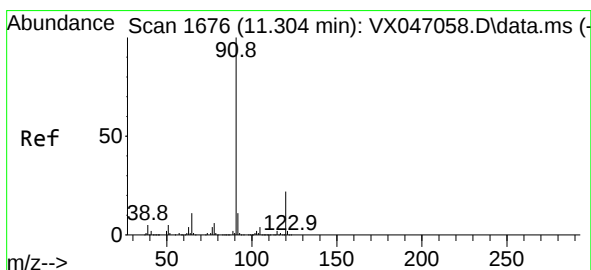
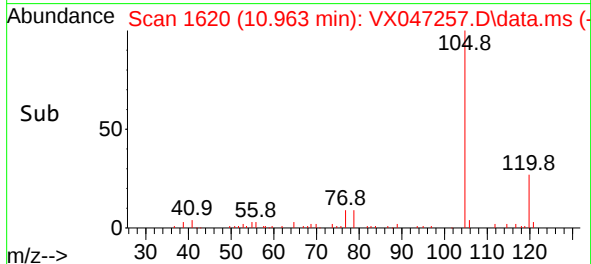
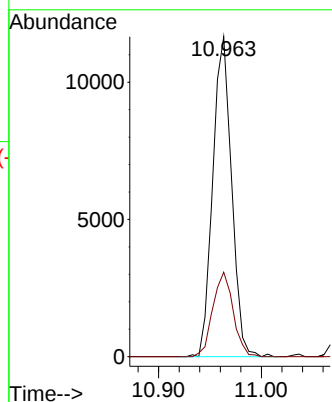
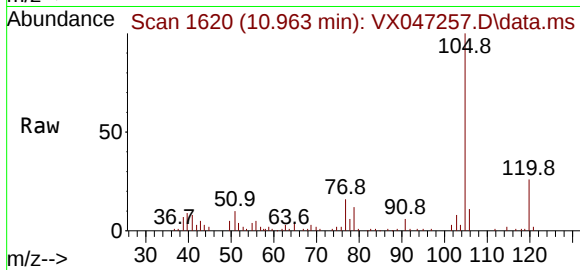
250806078-01 VOA

Tgt Ion:105 Resp: 14783

Ion Ratio Lower Upper

105 100

120 28.5 12.9 38.7



#78

n-propylbenzene

Concen: 0.601 ug/l

RT: 11.305 min Scan# 1676

Delta R.T. 0.000 min

Lab File: VX047257.D

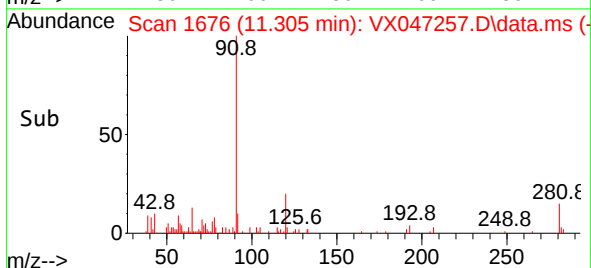
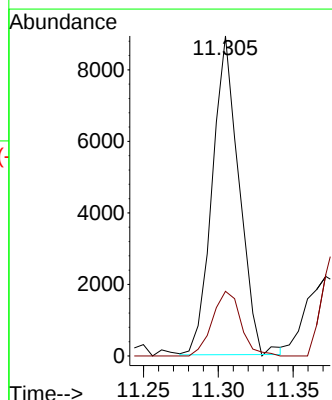
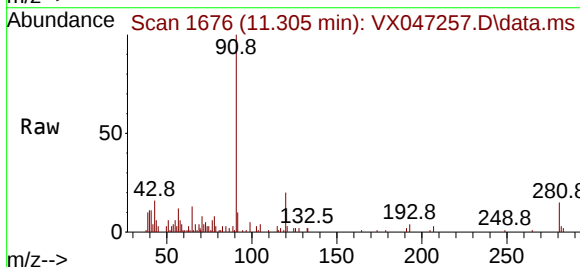
Acq: 07 Aug 2025 13:06

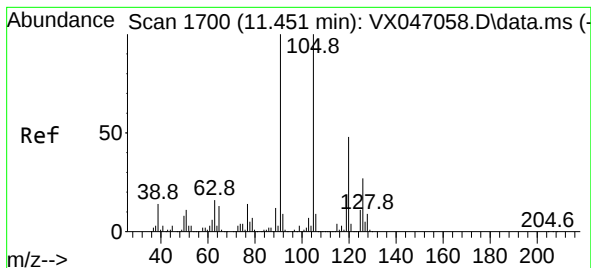
Tgt Ion: 91 Resp: 11088

Ion Ratio Lower Upper

91 100

120 21.6 11.0 33.0





#80

1,3,5-Trimethylbenzene

Concen: 0.683 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. 0.000 min

Lab File: VX047257.D

Acq: 07 Aug 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

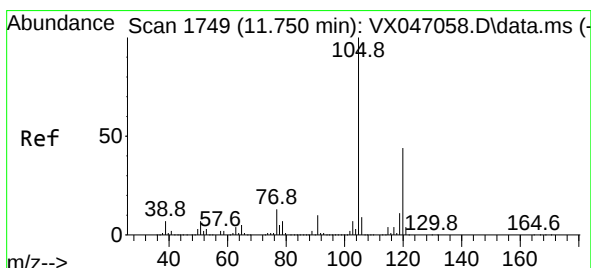
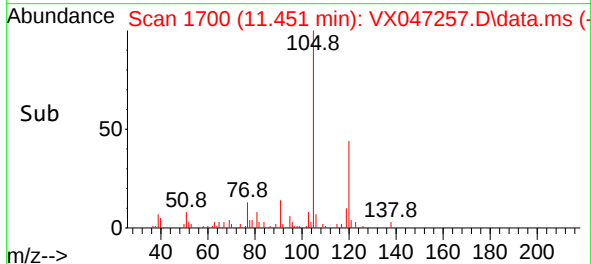
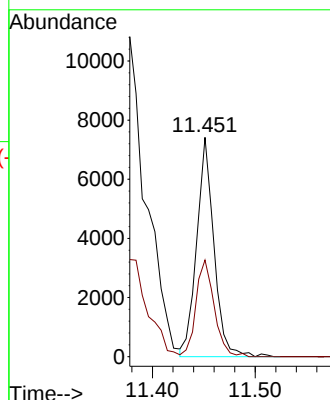
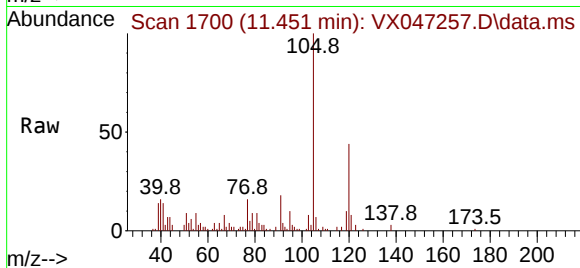
250806078-01 VOA

Tgt Ion:105 Resp: 8703

Ion Ratio Lower Upper

105 100

120 46.5 23.8 71.5



#84

1,2,4-Trimethylbenzene

Concen: 2.941 ug/l

RT: 11.750 min Scan# 1749

Delta R.T. 0.000 min

Lab File: VX047257.D

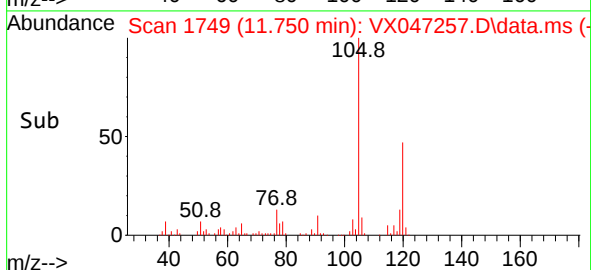
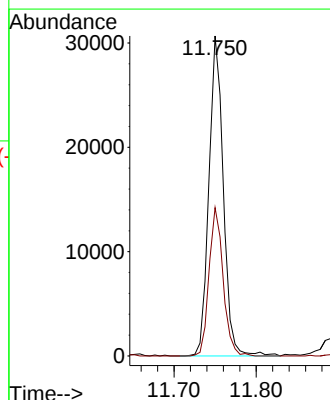
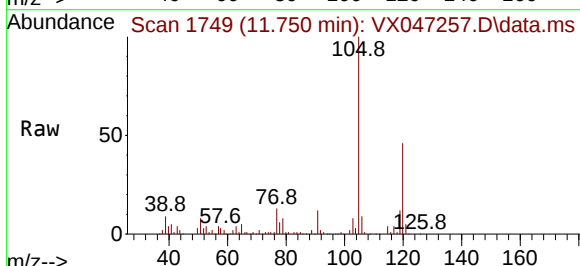
Acq: 07 Aug 2025 13:06

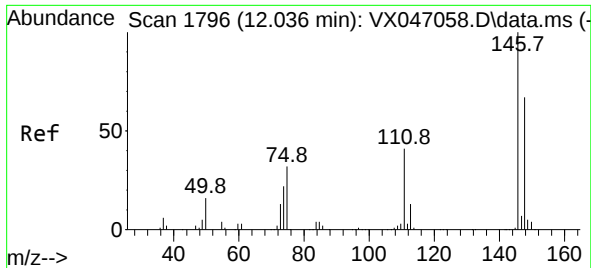
Tgt Ion:105 Resp: 37382

Ion Ratio Lower Upper

105 100

120 45.3 22.0 66.0

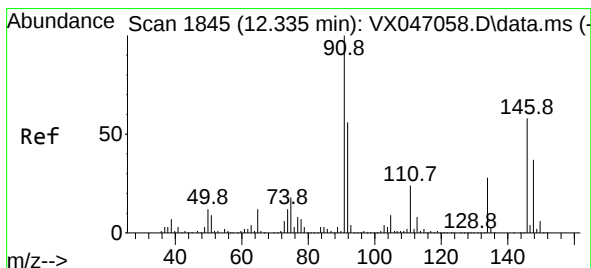
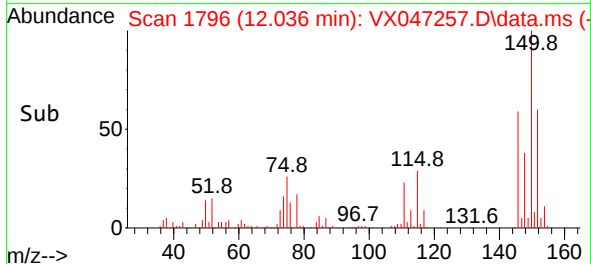
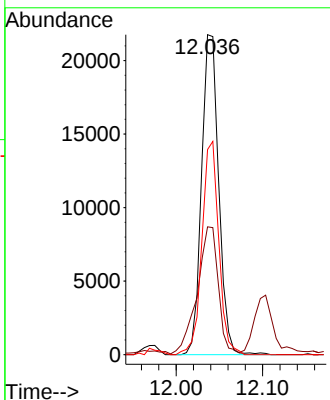
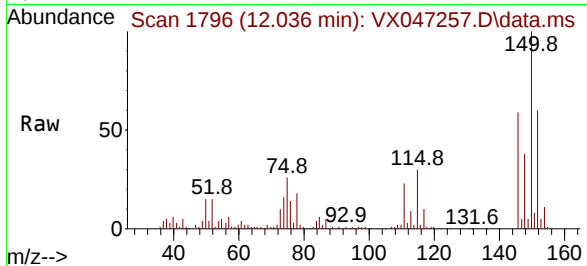




#88
1,4-Dichlorobenzene
Concen: 4.204 ug/l
RT: 12.036 min Scan# 11
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

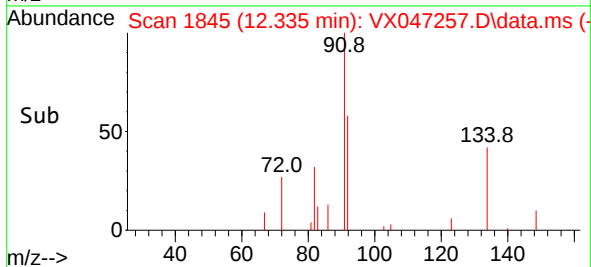
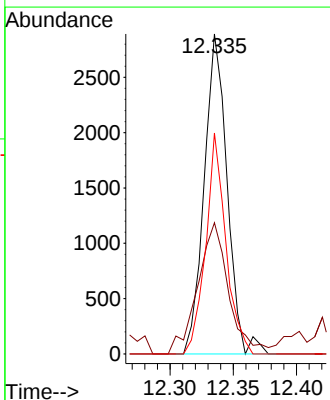
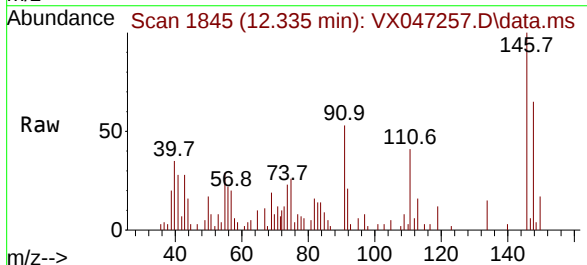
Instrument :
MSVOA_X
ClientSampleId :
250806078-01 VOA

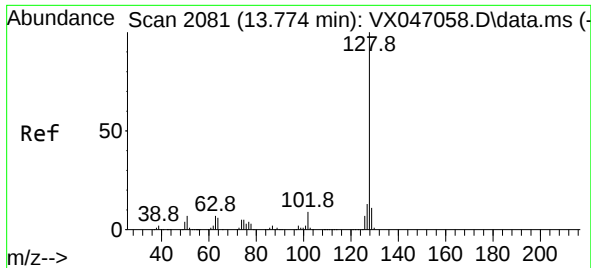
Tgt Ion:146 Resp: 29946
Ion Ratio Lower Upper
146 100
111 48.5 20.6 61.9
148 65.5 33.0 98.9



#91
1,2-Dichlorobenzene
Concen: 0.543 ug/l
RT: 12.335 min Scan# 1845
Delta R.T. 0.000 min
Lab File: VX047257.D
Acq: 07 Aug 2025 13:06

Tgt Ion:146 Resp: 3646
Ion Ratio Lower Upper
146 100
111 55.4 21.6 64.6
148 60.6 31.9 95.7





#95

Naphthalene

Concen: 23.498 ug/l

RT: 13.774 min Scan# 2081

Delta R.T. 0.000 min

Lab File: VX047257.D

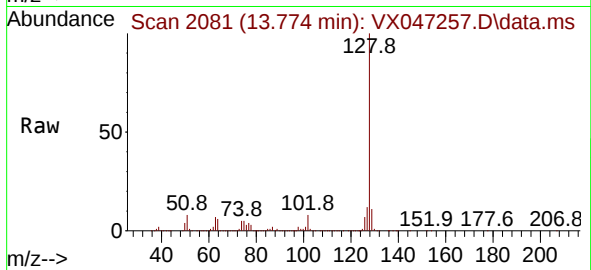
Acq: 07 Aug 2025 13:06

Instrument :

MSVOA_X

ClientSampleId :

250806078-01 VOA



Tgt Ion:128 Resp: 305822

Ion Ratio Lower Upper

128 100

127 12.8 10.1 15.1

129 10.8 8.6 13.0

