

Data Path : Z:\voasrv\HPCHEM1\MSVOA_X\Data\VX071825\
 Data File : VX047051.D
 Acq On : 18 Jul 2025 15:42
 Operator : JC/MD
 Sample : Q2646-01 10X
 Misc : 5.0mL/MSVOA_X/WATER
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 FRAC TANK

Quant Time: Jul 19 04:25:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_X\Method\82X070225W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 03 05:51:11 2025
 Response via : Initial Calibration

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

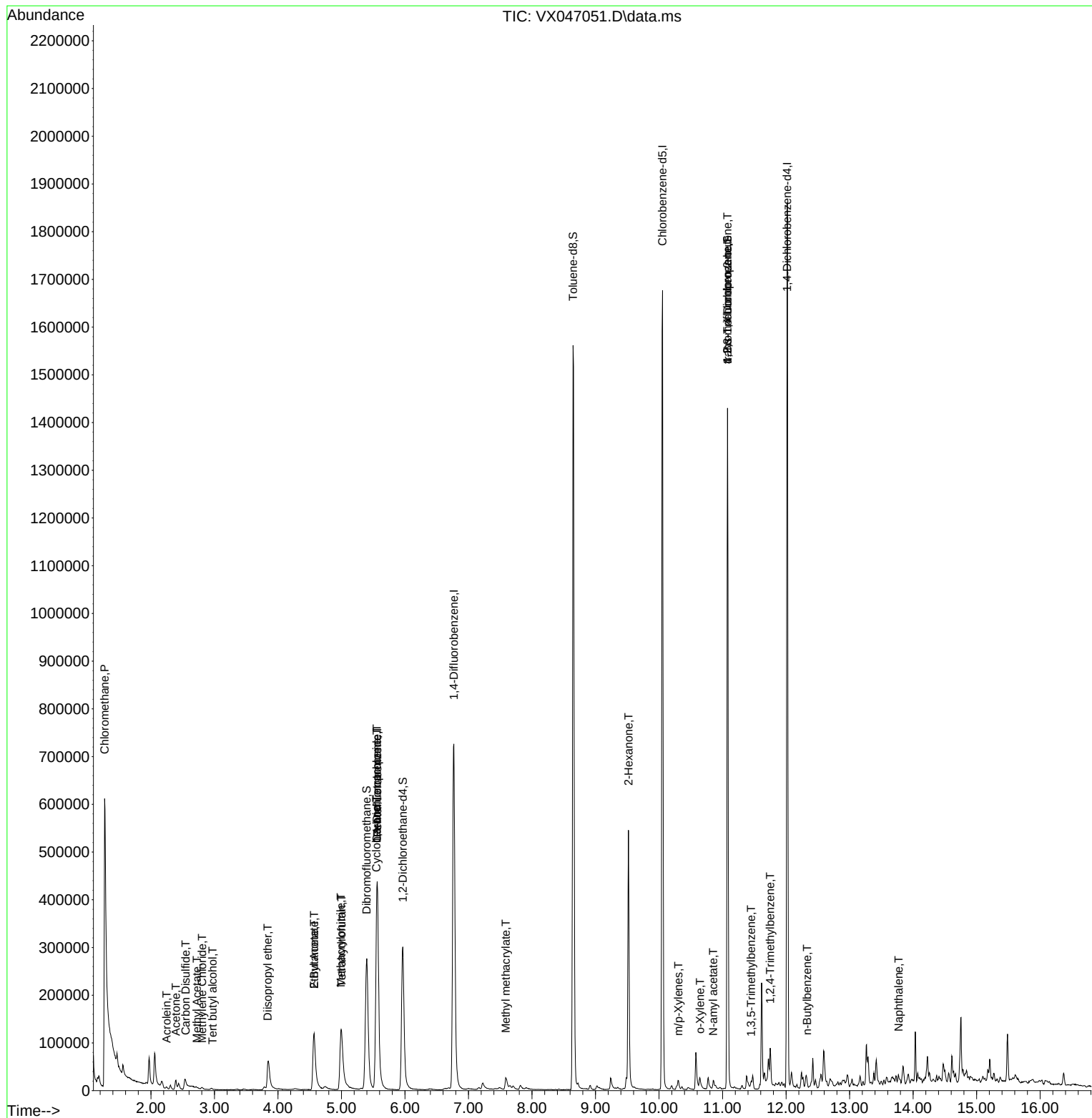
Internal Standards						
1) Pentafluorobenzene	5.562	168	438617	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	6.769	114	790915	50.000	ug/l	0.00
63) Chlorobenzene-d5	10.055	117	743630	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.018	152	361893	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	5.964	65	316066	54.545	ug/l	0.00
Spiked Amount	50.000	Range 78 - 117	Recovery	= 109.100%		
35) Dibromofluoromethane	5.397	113	262014	48.804	ug/l	0.00
Spiked Amount	50.000	Range 75 - 124	Recovery	= 97.600%		
50) Toluene-d8	8.647	98	948476	50.072	ug/l	0.00
Spiked Amount	50.000	Range 92 - 112	Recovery	= 100.140%		
62) 4-Bromofluorobenzene	11.079	95	380567	52.863	ug/l	0.00
Spiked Amount	50.000	Range 83 - 123	Recovery	= 105.720%		
Target Compounds						
					Qvalue	
3) Chloromethane	1.270	50	27269	5.950	ug/l #	43
11) Tert butyl alcohol	2.971	59	106	0.279	ug/l #	72
13) Acrolein	2.246	56	3238	10.458	ug/l	95
16) Acetone	2.392	43	24137	13.410	ug/l	94
17) Carbon Disulfide	2.544	76	30163	2.418	ug/l	97
18) Methyl Acetate	2.721	43	2296	0.484	ug/l #	86
20) Methylene Chloride	2.806	84	1540	0.289	ug/l #	84
22) Diisopropyl ether	3.837	45	4881	0.298	ug/l #	1
25) 2-Butanone	4.568	43	237777	99.015	ug/l	98
29) Tetrahydrofuran	5.001	42	7073	4.620	ug/l #	56
31) Cyclohexane	5.550	56	9983	1.205	ug/l #	16
36) 1,1-Dichloropropene	5.556	75	38400	5.301	ug/l #	51
37) Ethyl Acetate	4.568	43	237777	38.541	ug/l #	71
38) Carbon Tetrachloride	5.556	117	47464	6.198	ug/l #	16
41) Methacrylonitrile	4.989	41	37728	11.464	ug/l #	42
48) Methyl methacrylate	7.586	41	7622	1.562	ug/l #	40
59) 2-Hexanone	9.519	43	77096	20.841	ug/l #	49
68) m/p-Xylenes	10.305	106	5304	0.511	ug/l	91
69) o-Xylene	10.646	106	3300	0.329	ug/l	98
74) N-amyl acetate	10.854	43	3570	0.413	ug/l #	1
76) 1,2,3-Trichloropropane	11.079	75	199289	35.640	ug/l #	36
80) 1,3,5-Trimethylbenzene	11.451	105	6361	0.308	ug/l	94
81) trans-1,4-Dichloro-2-b...	11.079	75	199289	95.639	ug/l #	8
84) 1,2,4-Trimethylbenzene	11.750	105	29501	1.412	ug/l	97
89) n-Butylbenzene	12.329	91	5163	0.244	ug/l #	59
95) Naphthalene	13.774	128	7697	0.374	ug/l #	92

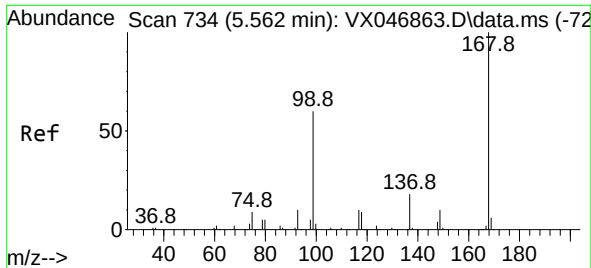
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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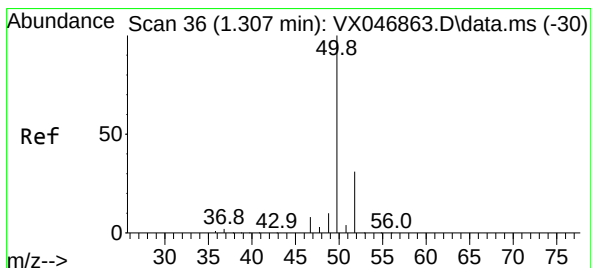
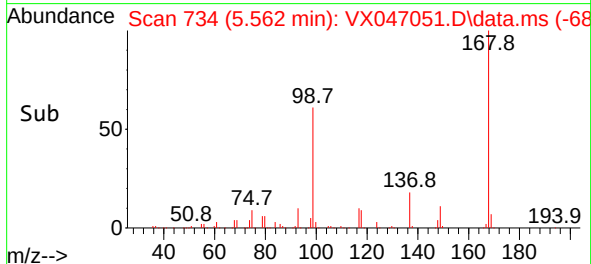
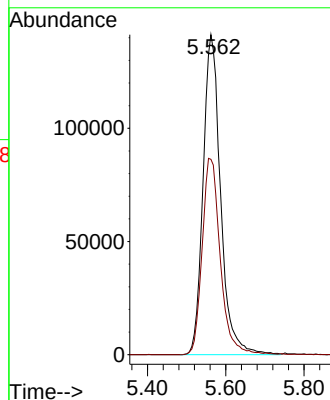
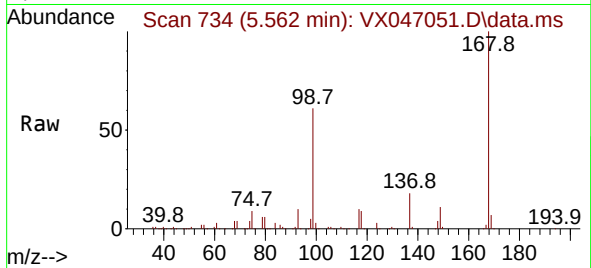




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 5.562 min Scan# 71
Delta R.T. 0.000 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

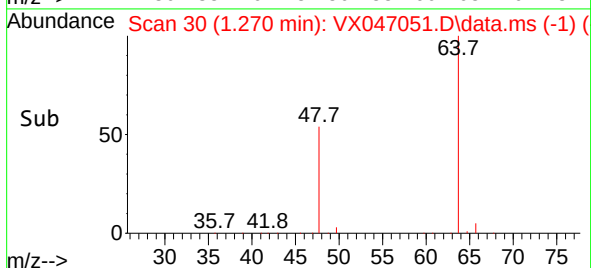
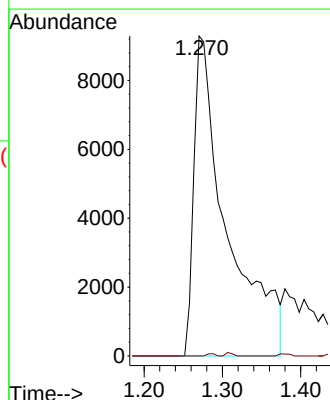
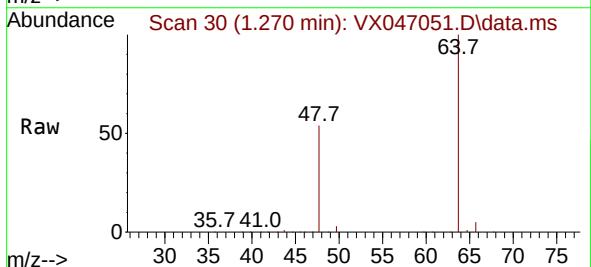
Instrument :
MSVOA_X
ClientSampleId :
FRAC TANK

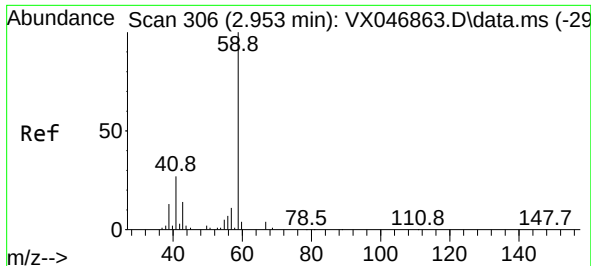
Tgt Ion:168 Resp: 438617
Ion Ratio Lower Upper
168 100
99 61.0 48.8 73.2



#3
Chloromethane
Concen: 5.950 ug/l
RT: 1.270 min Scan# 30
Delta R.T. -0.037 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion: 50 Resp: 27269
Ion Ratio Lower Upper
50 100
52 0.0 25.0 37.4#

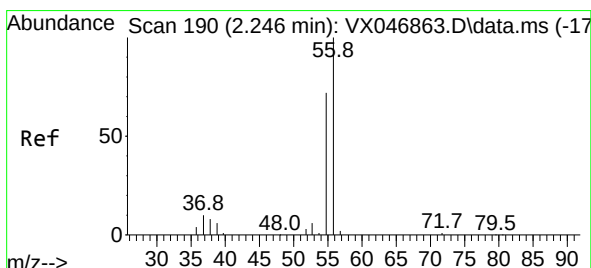
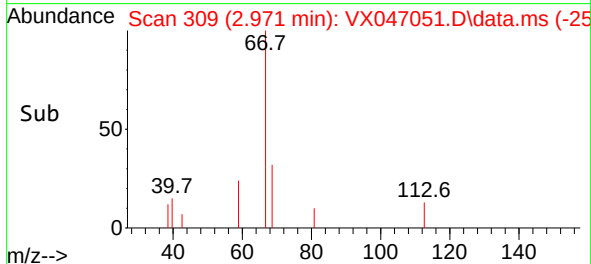
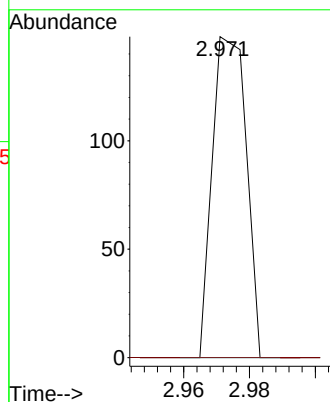
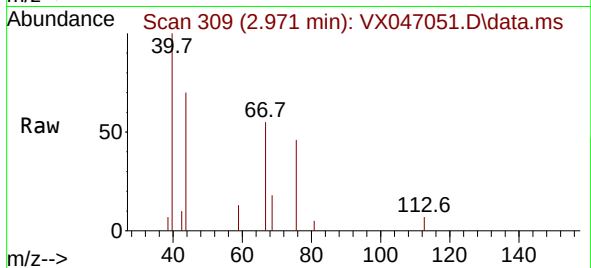




#11
Tert butyl alcohol
Concen: 0.279 ug/l
RT: 2.971 min Scan# 306
Delta R.T. 0.018 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

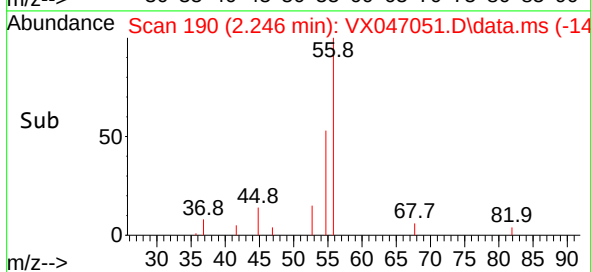
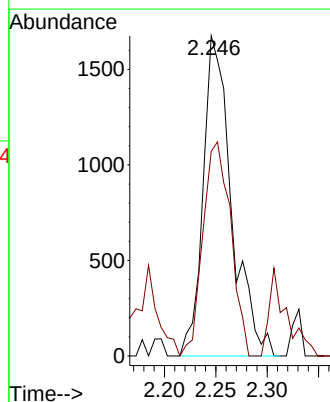
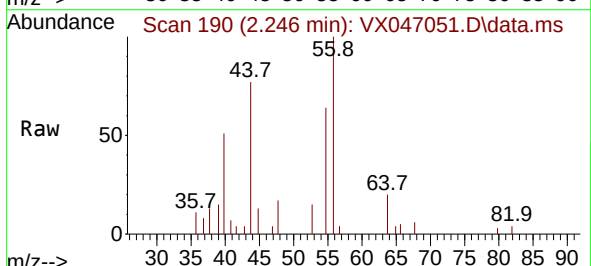
Instrument :
MSVOA_X
ClientSampleId :
FRAC TANK

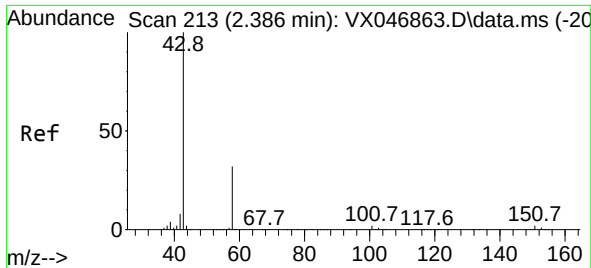
Tgt Ion: 59 Resp: 106
Ion Ratio Lower Upper
59 100
57 0.0 8.5 12.7#



#13
Acrolein
Concen: 10.458 ug/l
RT: 2.246 min Scan# 190
Delta R.T. -0.000 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion: 56 Resp: 3238
Ion Ratio Lower Upper
56 100
55 65.1 55.5 83.3

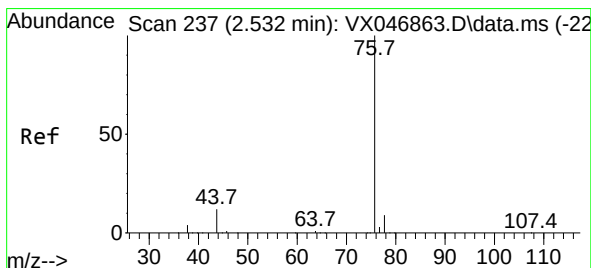
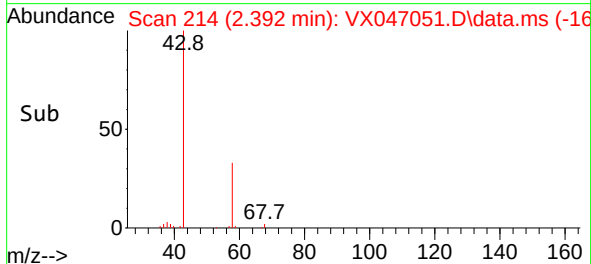
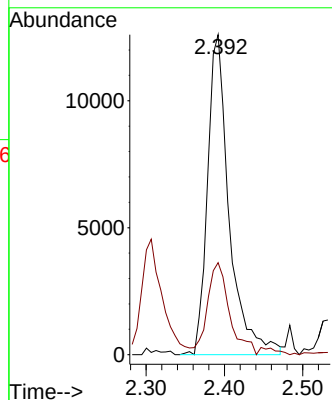
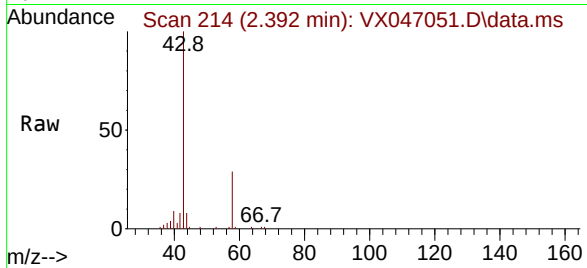




#16
Acetone
Concen: 13.410 ug/l
RT: 2.392 min Scan# 213
Delta R.T. 0.006 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

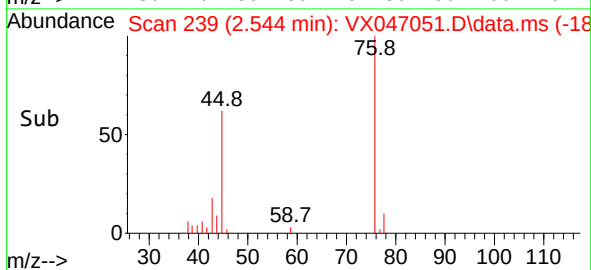
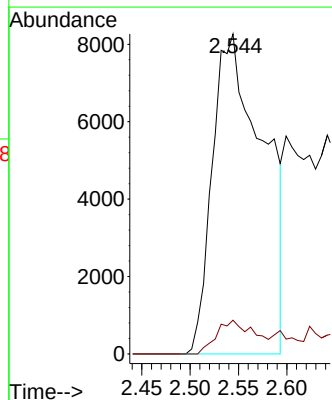
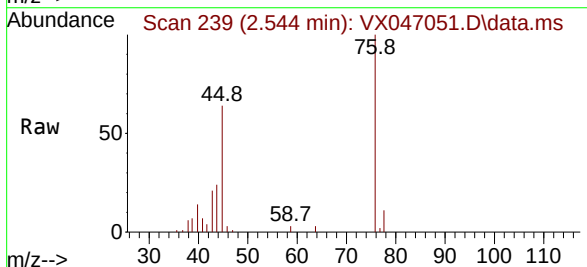
Instrument :
MSVOA_X
ClientSampleId :
FRAC TANK

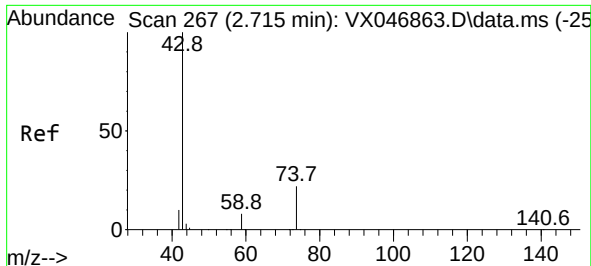
Tgt Ion: 43 Resp: 24137
Ion Ratio Lower Upper
43 100
58 28.8 25.8 38.6



#17
Carbon Disulfide
Concen: 2.418 ug/l
RT: 2.544 min Scan# 239
Delta R.T. 0.012 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion: 76 Resp: 30163
Ion Ratio Lower Upper
76 100
78 10.6 7.4 11.2

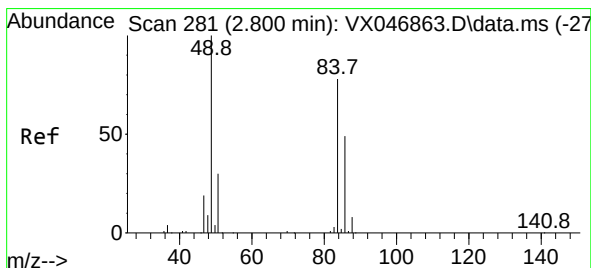
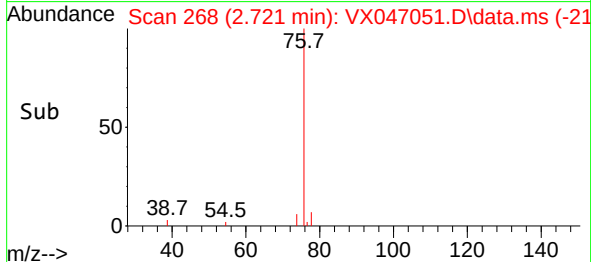
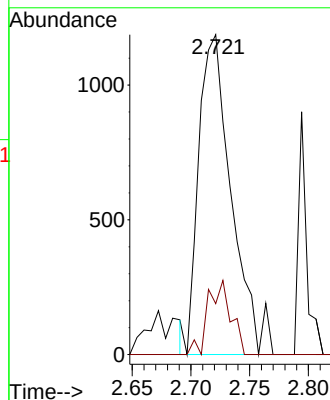
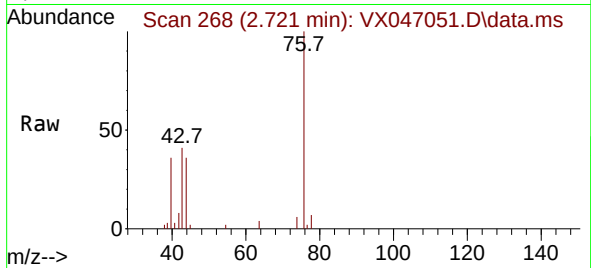




#18
Methyl Acetate
Concen: 0.484 ug/l
RT: 2.721 min Scan# 21
Delta R.T. 0.006 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

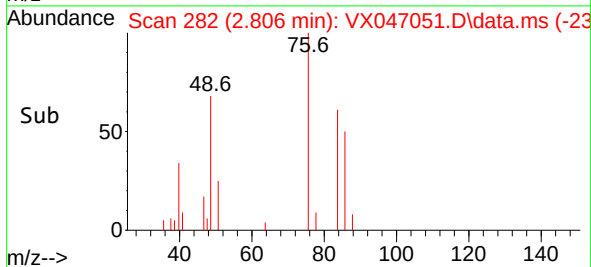
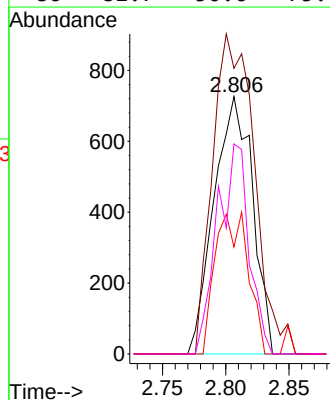
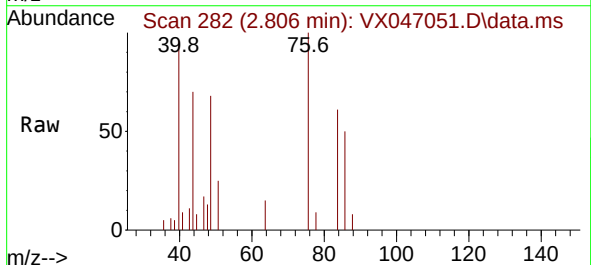
Instrument :
MSVOA_X
ClientSampleId :
FRAC TANK

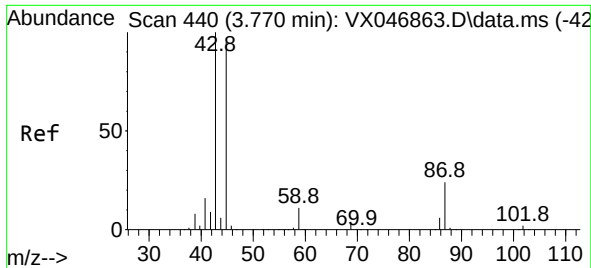
Tgt Ion: 43 Resp: 2296
Ion Ratio Lower Upper
43 100
74 16.2 18.3 27.5#



#20
Methylene Chloride
Concen: 0.289 ug/l
RT: 2.806 min Scan# 282
Delta R.T. 0.006 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion: 84 Resp: 1540
Ion Ratio Lower Upper
84 100
49 111.0 102.8 154.2
51 41.6 31.1 46.7
86 81.7 50.6 75.8#

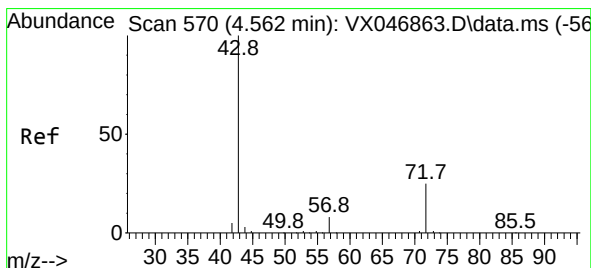
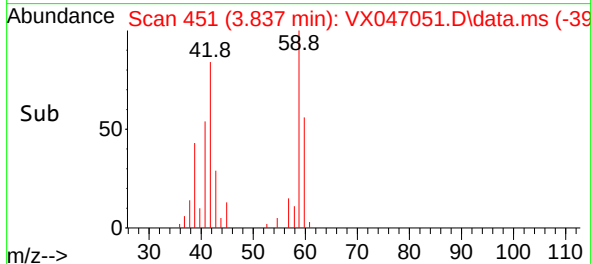
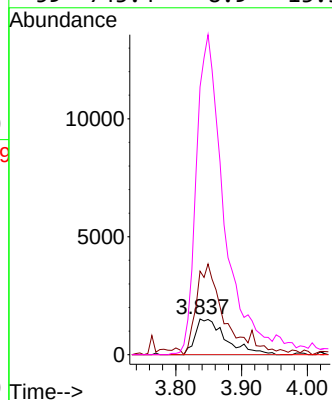
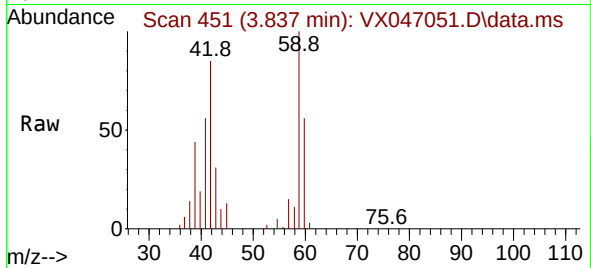




#22
Diisopropyl ether
Concen: 0.298 ug/l
RT: 3.837 min Scan# 41
Delta R.T. 0.067 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

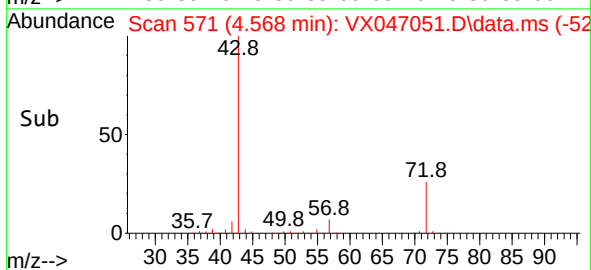
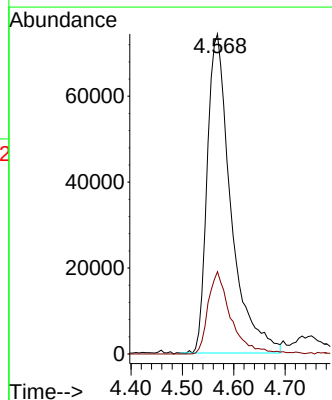
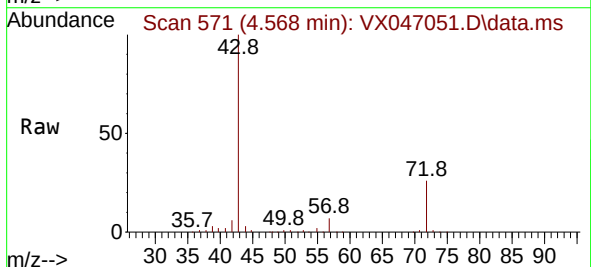
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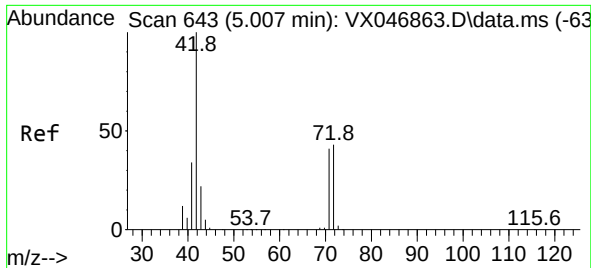
Tgt Ion:	45	Resp:	4881
Ion	Ratio	Lower	Upper
45	100		
43	220.6	84.2	126.4#
87	0.0	20.3	30.5#
59	743.4	8.9	13.3#



#25
2-Butanone
Concen: 99.015 ug/l
RT: 4.568 min Scan# 571
Delta R.T. 0.006 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion:	43	Resp:	237777
Ion	Ratio	Lower	Upper
43	100		
72	26.0	20.0	30.0

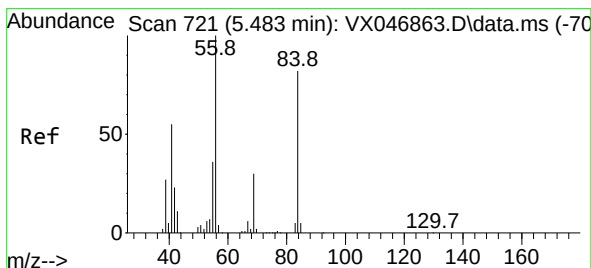
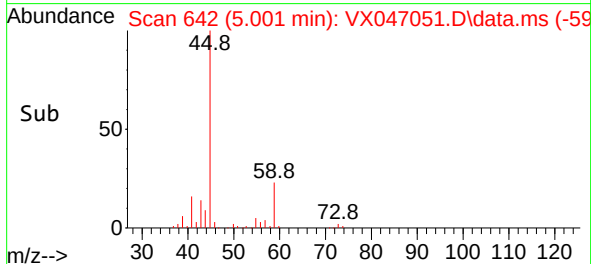
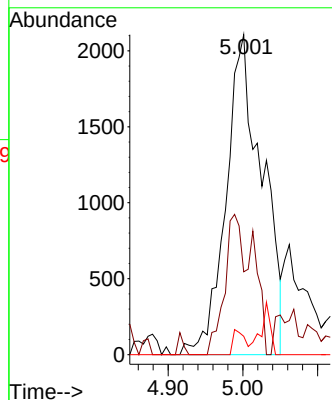
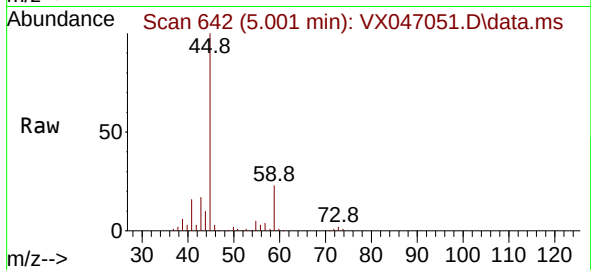




#29
Tetrahydrofuran
Concen: 4.620 ug/l
RT: 5.001 min Scan# 643
Delta R.T. -0.006 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

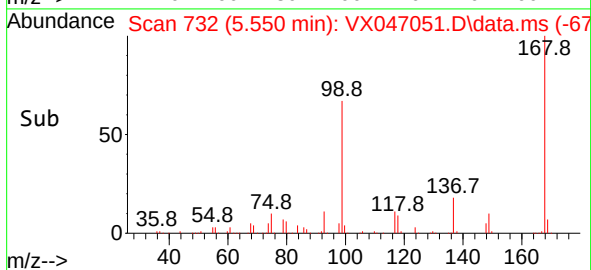
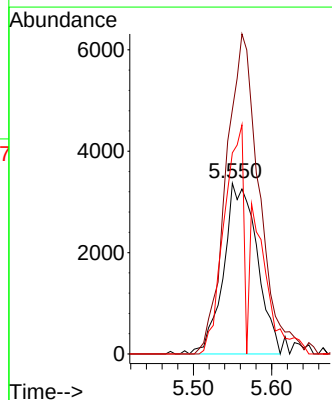
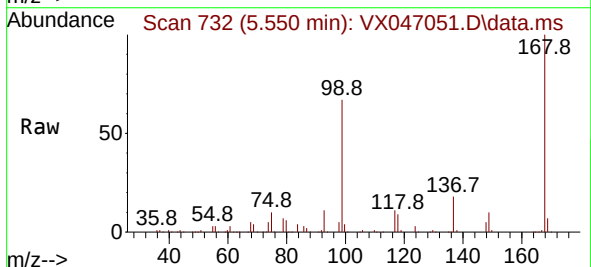
Instrument :
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FRAC TANK

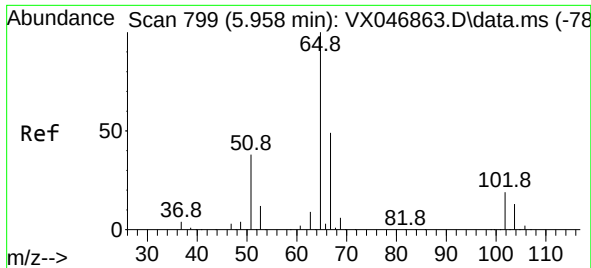
Tgt Ion: 42 Resp: 7073
Ion Ratio Lower Upper
42 100
72 24.7 35.1 52.7#
71 2.5 31.9 47.9#



#31
Cyclohexane
Concen: 1.205 ug/l
RT: 5.550 min Scan# 732
Delta R.T. 0.067 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion: 56 Resp: 9983
Ion Ratio Lower Upper
56 100
69 143.1 24.0 36.0#
84 117.8 66.5 99.7#

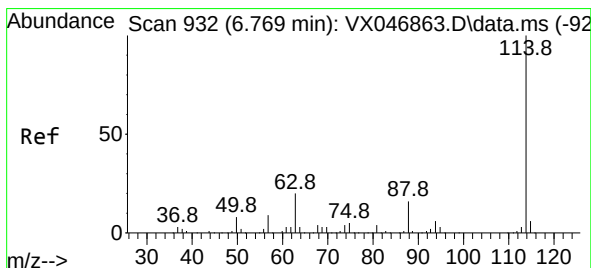
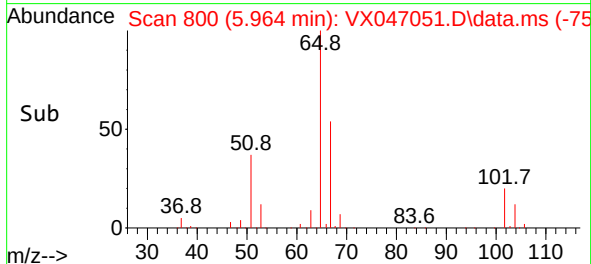
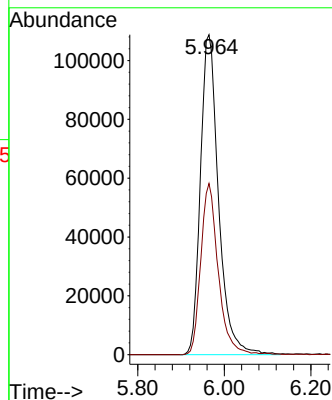
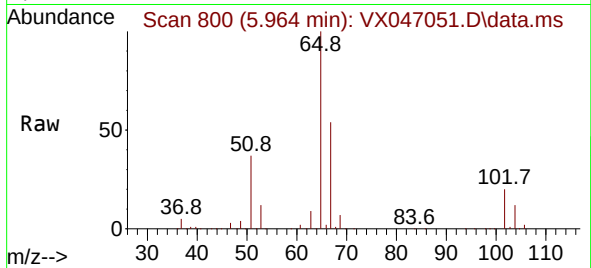




#33
 1,2-Dichloroethane-d4
 Concen: 54.545 ug/l
 RT: 5.964 min Scan# 800
 Delta R.T. 0.006 min
 Lab File: VX047051.D
 Acq: 18 Jul 2025 15:42

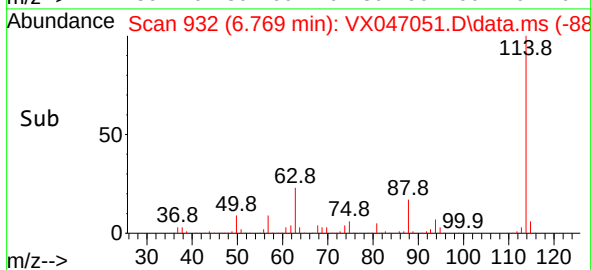
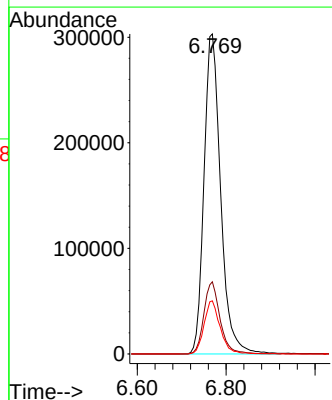
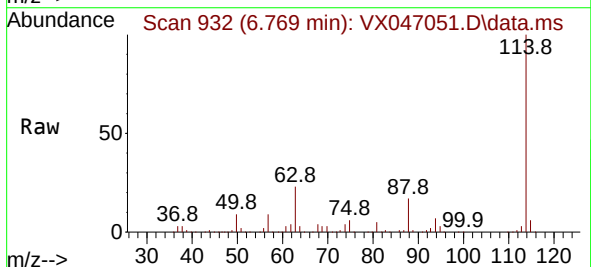
Instrument :
 MSVOA_X
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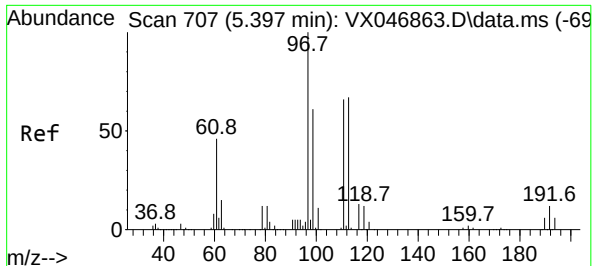
Tgt Ion: 65 Resp: 316066
 Ion Ratio Lower Upper
 65 100
 67 51.4 0.0 105.2



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.769 min Scan# 932
 Delta R.T. 0.000 min
 Lab File: VX047051.D
 Acq: 18 Jul 2025 15:42

Tgt Ion: 114 Resp: 790915
 Ion Ratio Lower Upper
 114 100
 63 22.6 0.0 40.4
 88 16.6 0.0 31.0

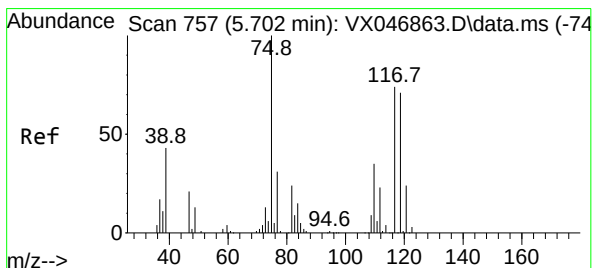
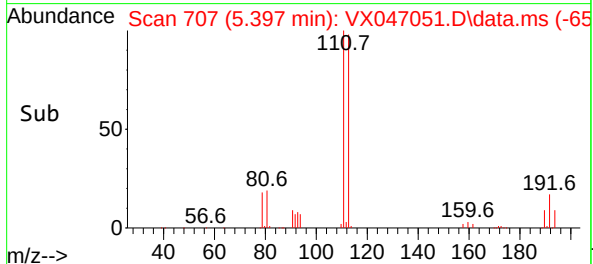
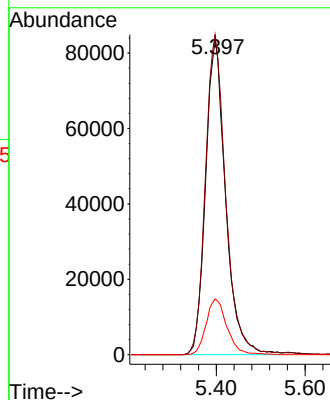
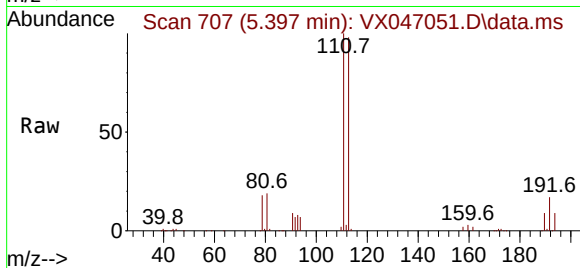




#35
Dibromofluoromethane
Concen: 48.804 ug/l
RT: 5.397 min Scan# 707
Delta R.T. -0.000 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

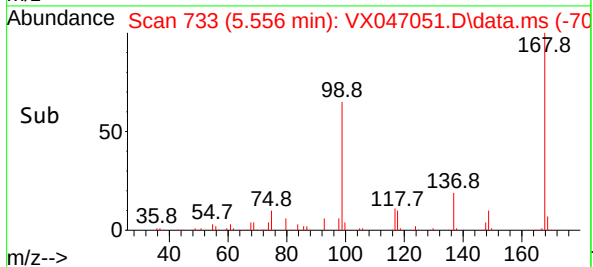
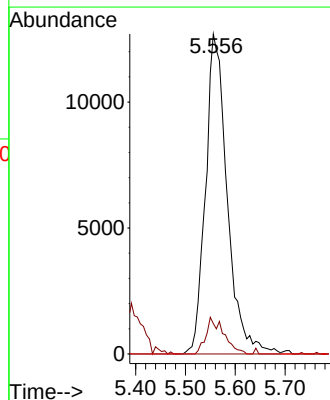
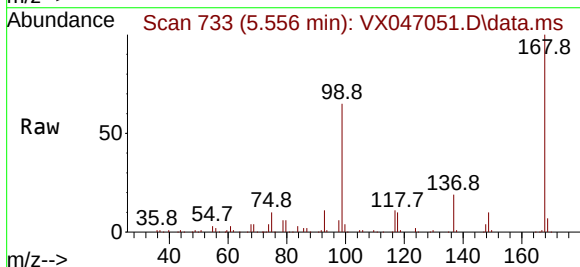
Instrument :
MSVOA_X
ClientSampleId :
FRAC TANK

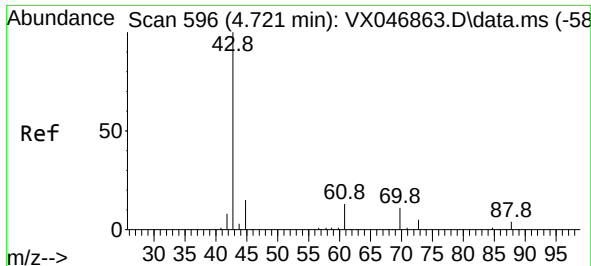
Tgt Ion:113 Resp: 262014
Ion Ratio Lower Upper
113 100
111 102.9 81.2 121.8
192 18.4 15.3 22.9



#36
1,1-Dichloropropene
Concen: 5.301 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.146 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion: 75 Resp: 38400
Ion Ratio Lower Upper
75 100
110 9.5 17.3 51.9#
77 0.0 24.2 36.4#

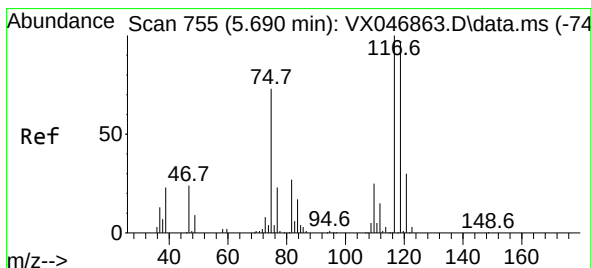
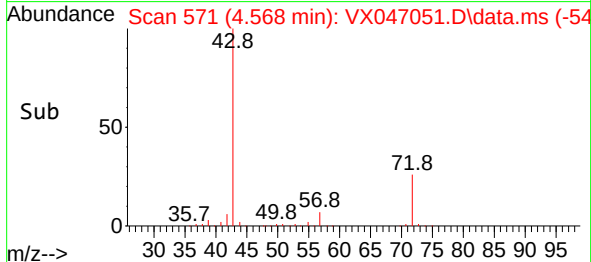
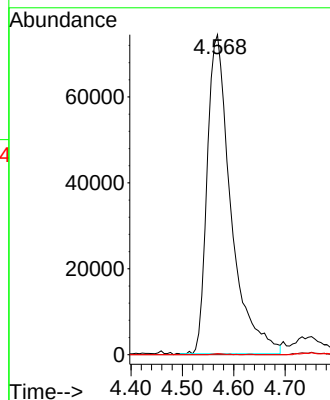
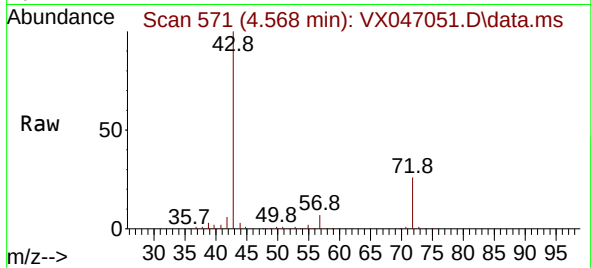




#37
Ethyl Acetate
Concen: 38.541 ug/l
RT: 4.568 min Scan# 51
Delta R.T. -0.152 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

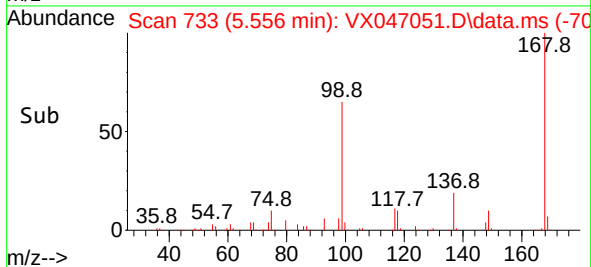
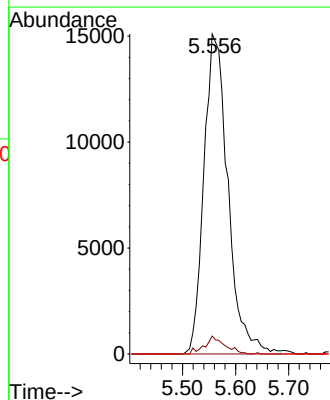
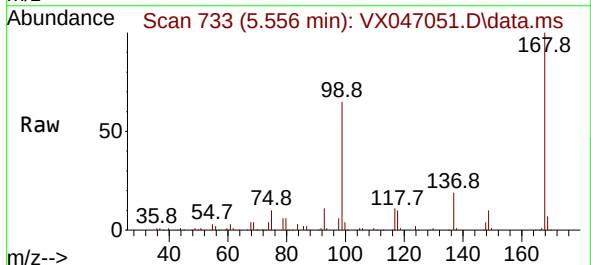
Instrument :
MSVOA_X
ClientSampleId :
FRAC TANK

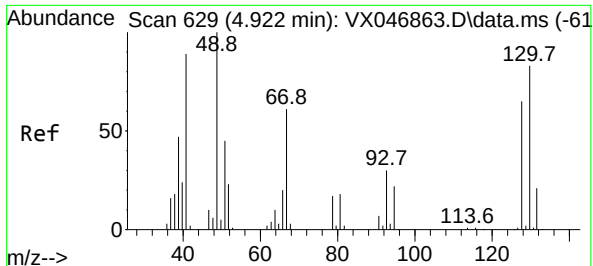
Tgt Ion: 43 Resp: 237777
Ion Ratio Lower Upper
43 100
61 0.0 9.7 14.5#
70 0.2 8.3 12.5#



#38
Carbon Tetrachloride
Concen: 6.198 ug/l
RT: 5.556 min Scan# 733
Delta R.T. -0.134 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion: 117 Resp: 47464
Ion Ratio Lower Upper
117 100
119 5.6 76.6 114.8#
121 0.0 24.1 36.1#

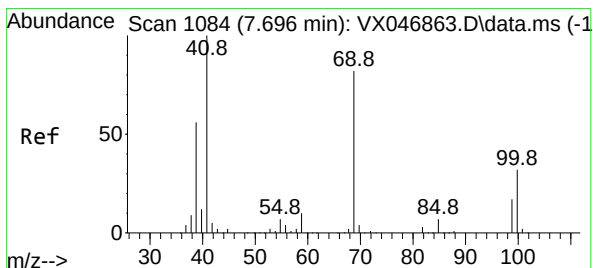
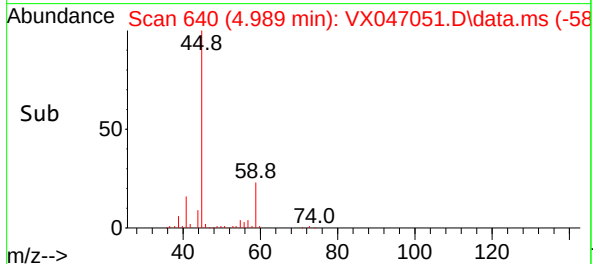
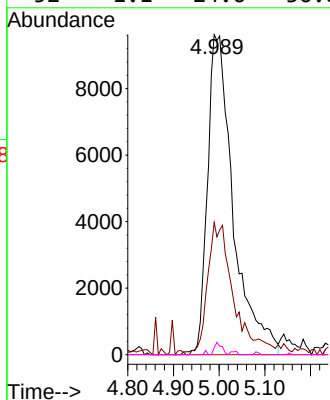
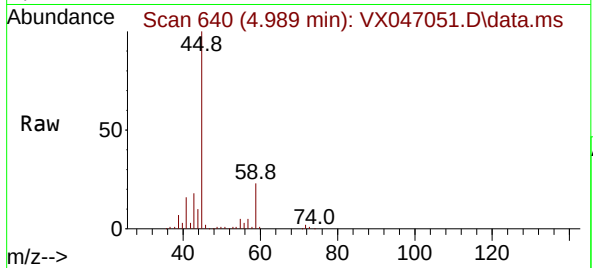




#41
Methacrylonitrile
Concen: 11.464 ug/l
RT: 4.989 min Scan# 641
Delta R.T. 0.067 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

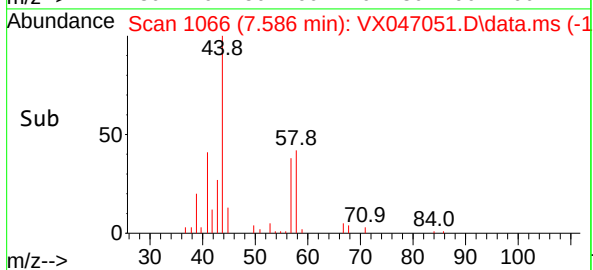
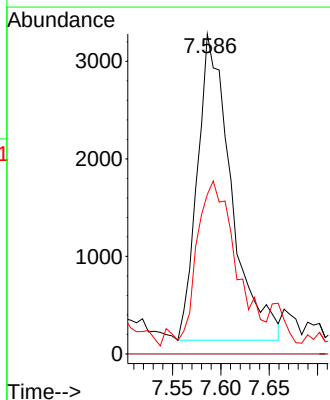
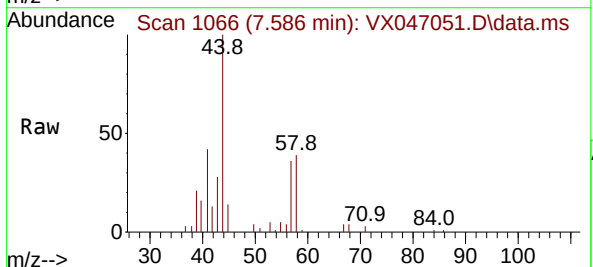
Instrument :
MSVOA_X
ClientSampleId :
FRAC TANK

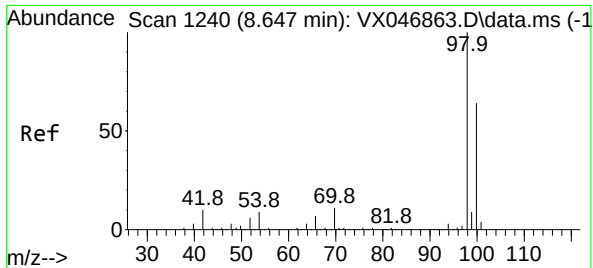
Tgt Ion:	41	Resp:	37728
Ion	Ratio	Lower	Upper
41	100		
39	41.3	43.0	64.4#
67	0.0	60.2	90.2#
52	1.1	24.6	36.8#



#48
Methyl methacrylate
Concen: 1.562 ug/l
RT: 7.586 min Scan# 1066
Delta R.T. -0.110 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion:	41	Resp:	7622
Ion	Ratio	Lower	Upper
41	100		
69	0.0	65.8	98.8#
39	63.9	43.8	65.6

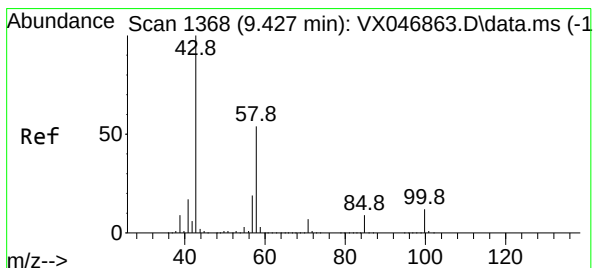
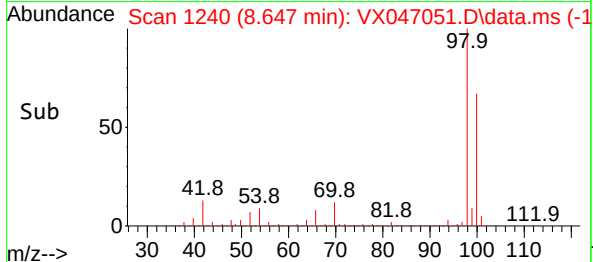
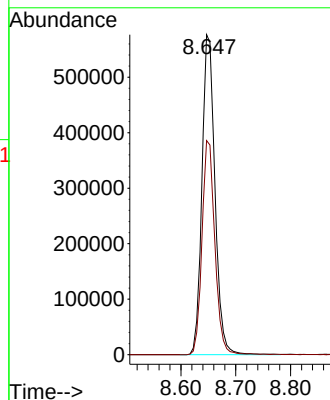
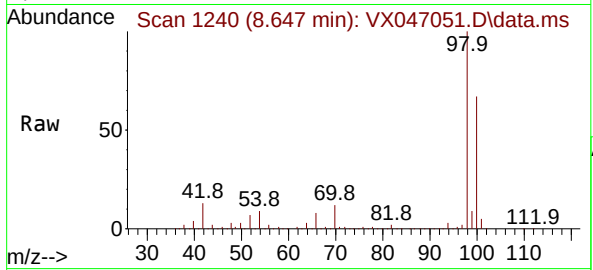




#50
Toluene-d8
Concen: 50.072 ug/l
RT: 8.647 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

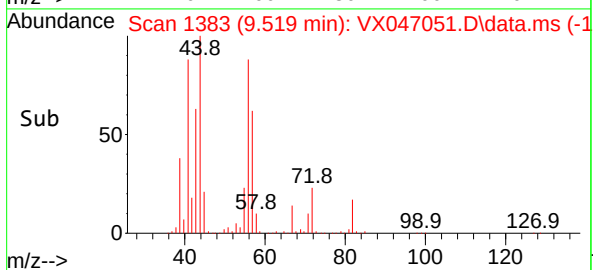
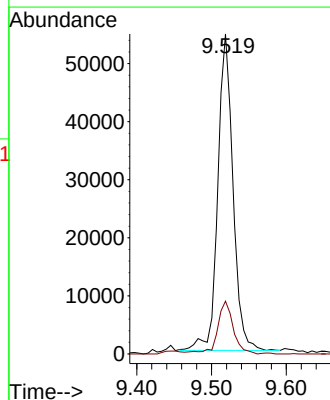
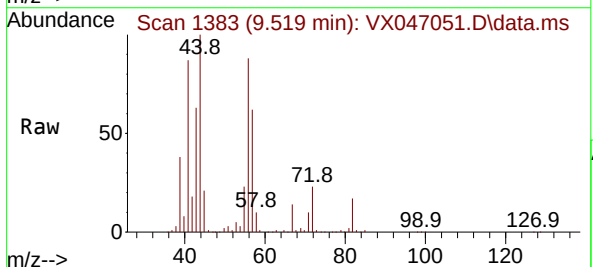
Instrument :
MSVOA_X
ClientSampleId :
FRAC TANK

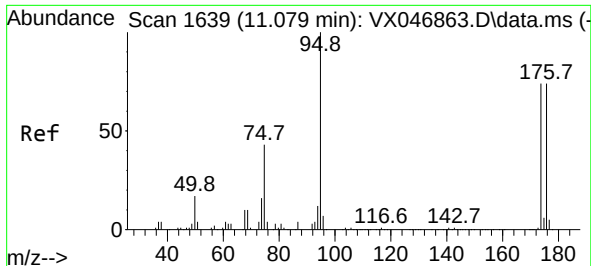
Tgt Ion: 98 Resp: 948476
Ion Ratio Lower Upper
98 100
100 66.3 53.0 79.6



#59
2-Hexanone
Concen: 20.841 ug/l
RT: 9.519 min Scan# 1383
Delta R.T. 0.091 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion: 43 Resp: 77096
Ion Ratio Lower Upper
43 100
58 17.3 27.1 81.3#

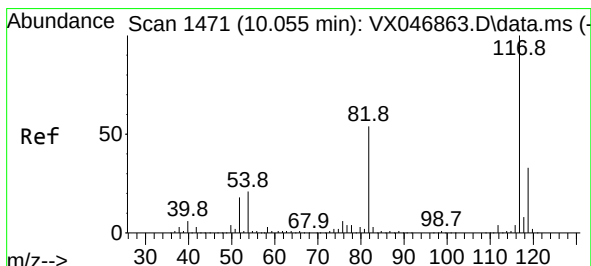
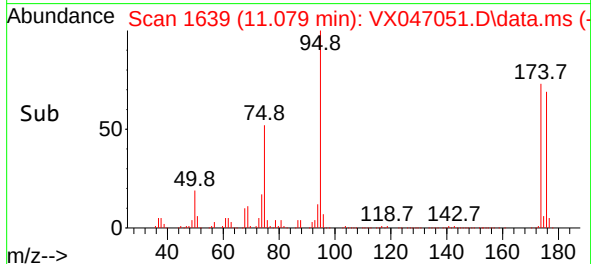
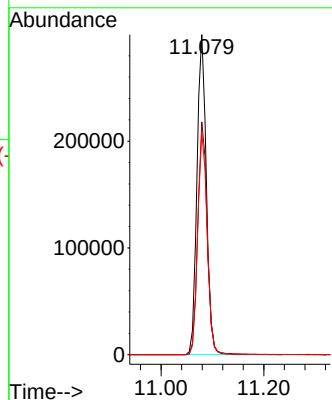
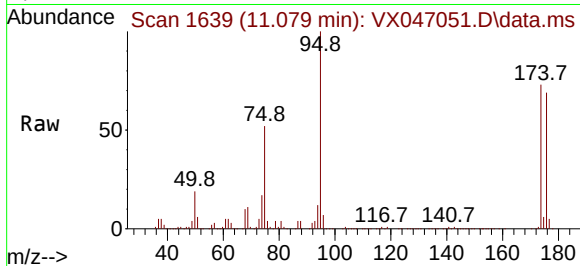




#62
4-Bromofluorobenzene
Concen: 52.863 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. -0.000 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

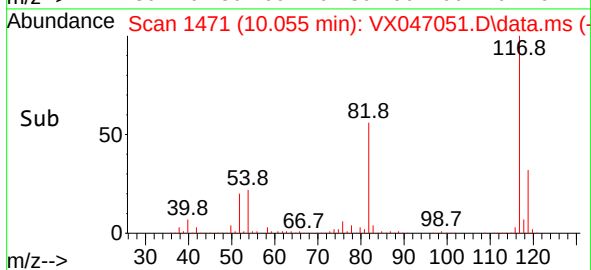
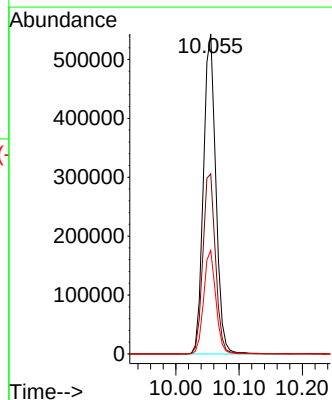
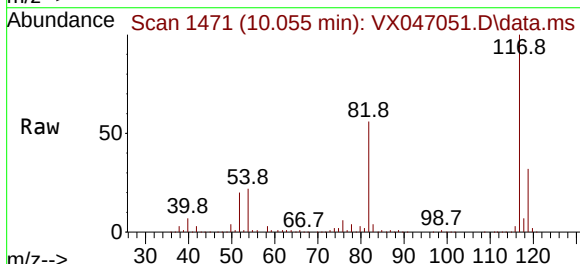
Instrument :
MSVOA_X
ClientSampleId :
FRAC TANK

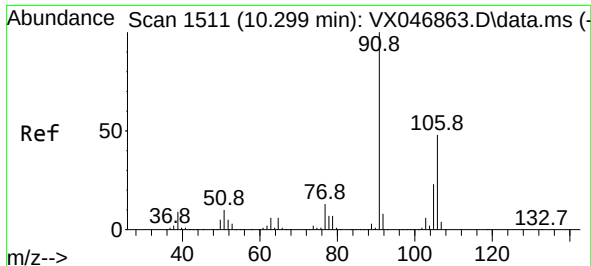
Tgt Ion: 95 Resp: 380567
Ion Ratio Lower Upper
95 100
174 72.6 0.0 152.0
176 70.3 0.0 145.2



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.055 min Scan# 1471
Delta R.T. -0.000 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion: 117 Resp: 743630
Ion Ratio Lower Upper
117 100
82 56.3 43.3 64.9
119 32.4 26.4 39.6

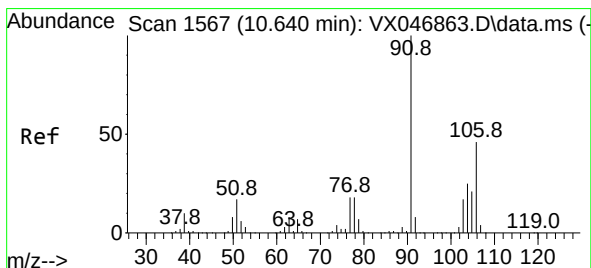
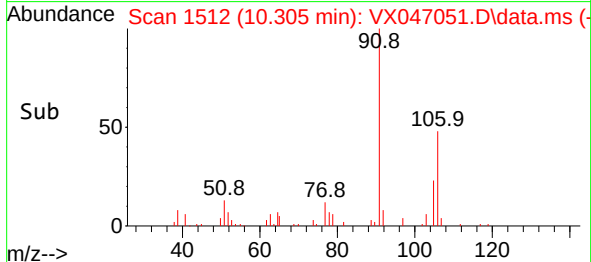
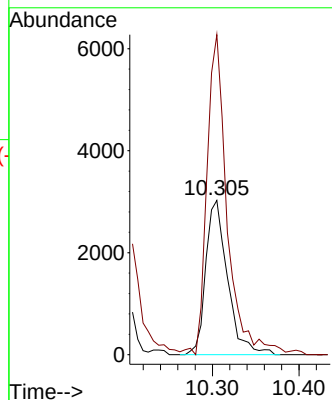
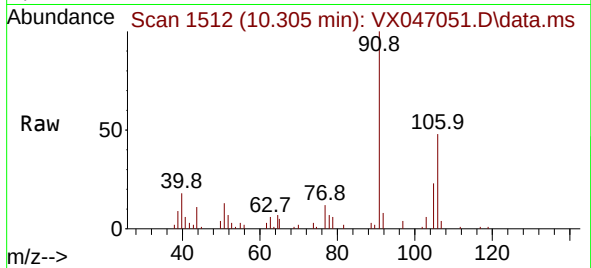




#68
m/p-Xylenes
Concen: 0.511 ug/l
RT: 10.305 min Scan# 1511
Delta R.T. 0.006 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

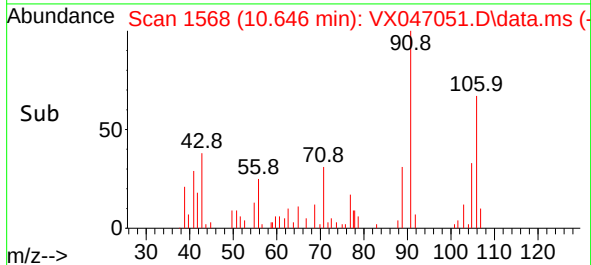
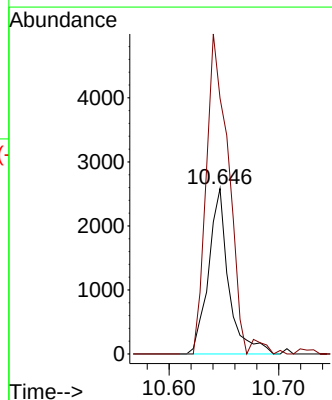
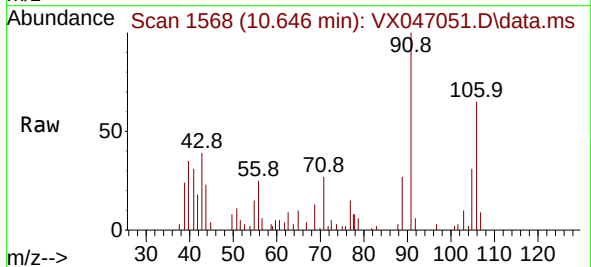
Instrument :
MSVOA_X
ClientSampleId :
FRAC TANK

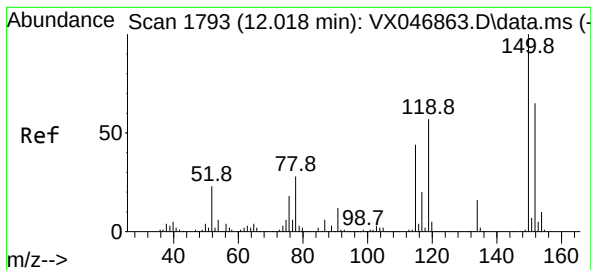
Tgt Ion:106 Resp: 5304
Ion Ratio Lower Upper
106 100
91 192.6 164.6 246.8



#69
o-Xylene
Concen: 0.329 ug/l
RT: 10.646 min Scan# 1568
Delta R.T. 0.006 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion:106 Resp: 3300
Ion Ratio Lower Upper
106 100
91 216.2 109.5 328.5

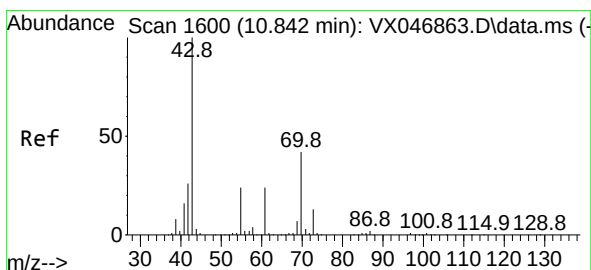
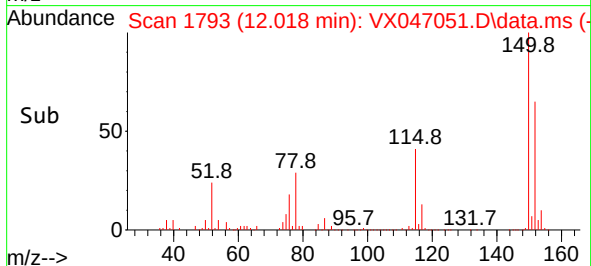
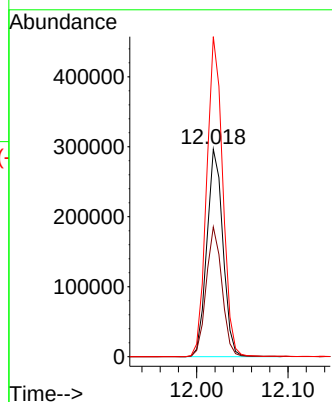
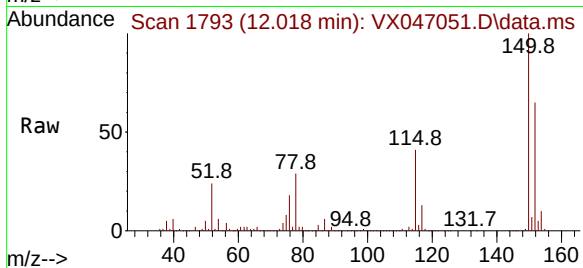




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 12.018 min Scan# 11
Delta R.T. -0.000 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

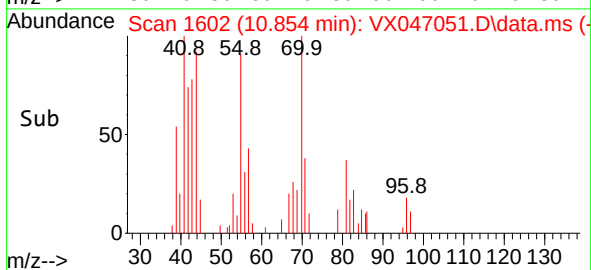
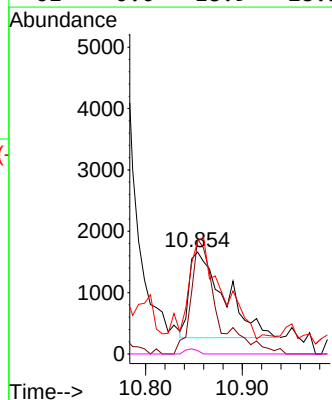
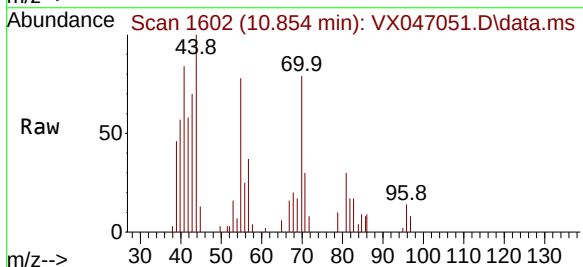
Instrument :
MSVOA_X
ClientSampleId :
FRAC TANK

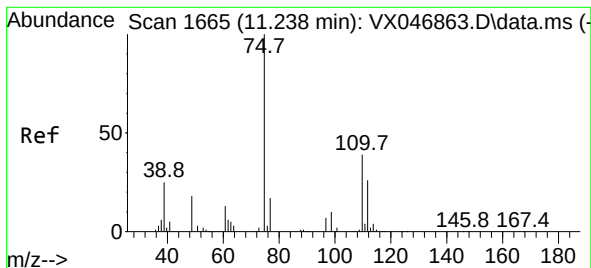
Tgt Ion:152 Resp: 361893
Ion Ratio Lower Upper
152 100
115 61.4 42.4 127.1
150 154.0 0.0 349.2



#74
N-ethyl acetate
Concen: 0.413 ug/l
RT: 10.854 min Scan# 1602
Delta R.T. 0.012 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion: 43 Resp: 3570
Ion Ratio Lower Upper
43 100
70 80.6 33.4 50.2#
55 135.8 19.6 29.4#
61 0.0 18.9 28.3#





#76

1,2,3-Trichloropropane

Concen: 35.640 ug/l

RT: 11.079 min Scan# 1

Delta R.T. -0.159 min

Lab File: VX047051.D

Acq: 18 Jul 2025 15:42

Instrument :

MSVOA_X

ClientSampleId :

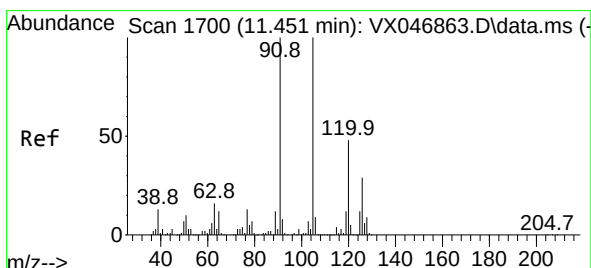
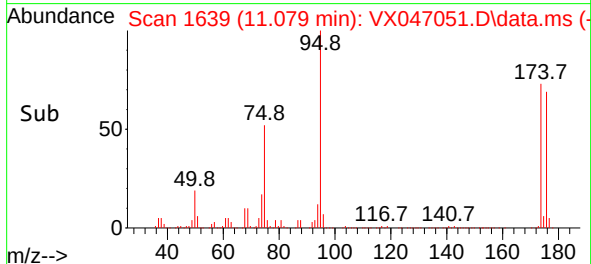
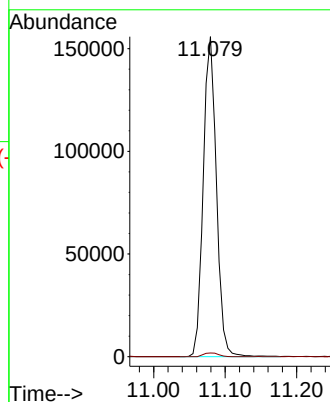
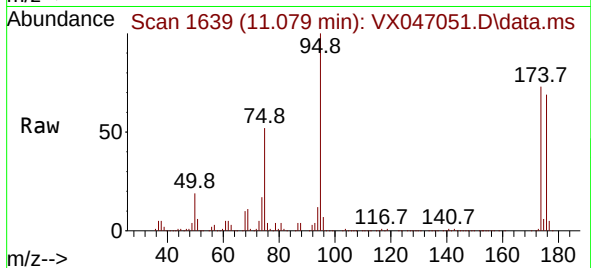
FRAC TANK

Tgt Ion: 75 Resp: 199289

Ion Ratio Lower Upper

75 100

77 1.3 20.6 61.8#



#80

1,3,5-Trimethylbenzene

Concen: 0.308 ug/l

RT: 11.451 min Scan# 1700

Delta R.T. -0.000 min

Lab File: VX047051.D

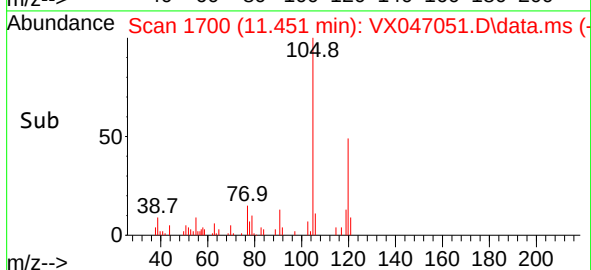
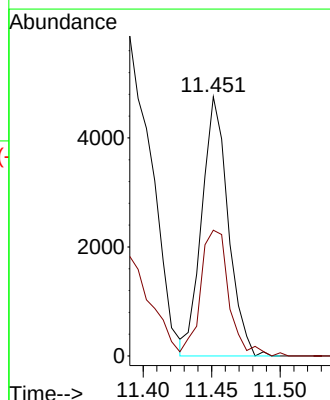
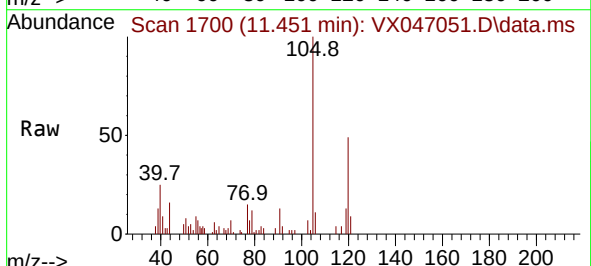
Acq: 18 Jul 2025 15:42

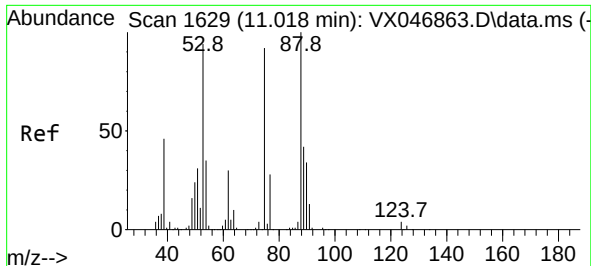
Tgt Ion:105 Resp: 6361

Ion Ratio Lower Upper

105 100

120 52.4 24.1 72.4

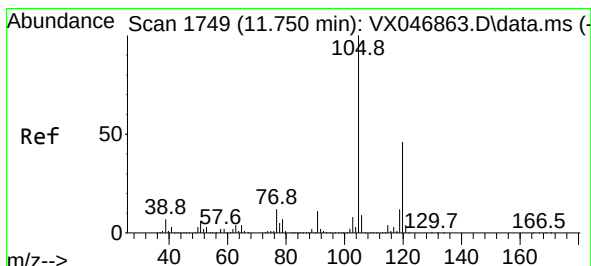
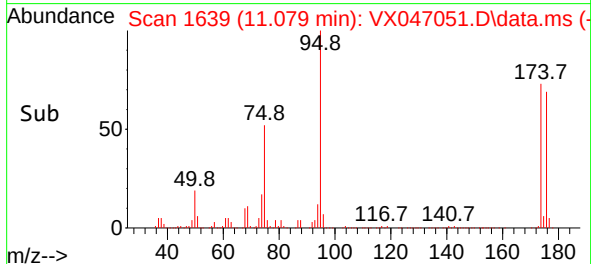
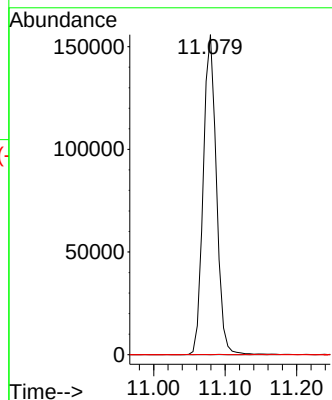
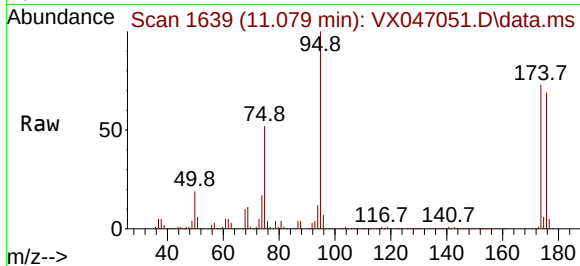




#81
trans-1,4-Dichloro-2-butene
Concen: 95.639 ug/l
RT: 11.079 min Scan# 1639
Delta R.T. 0.061 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

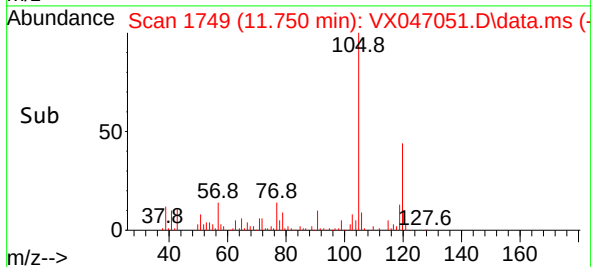
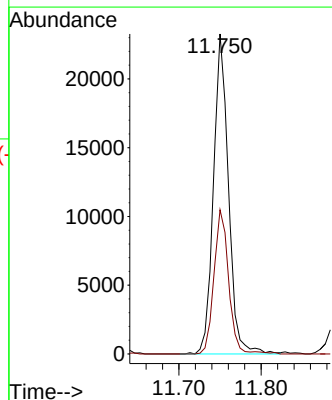
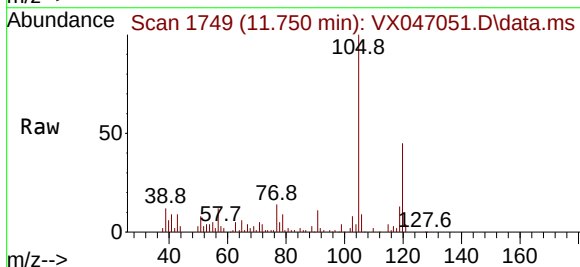
Instrument :
MSVOA_X
ClientSampleId :
FRAC TANK

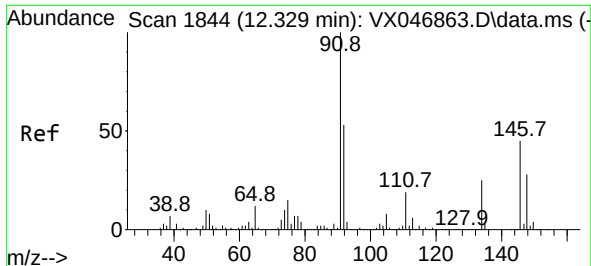
Tgt Ion: 75 Resp: 199289
Ion Ratio Lower Upper
75 100
53 0.1 83.7 125.5#
89 0.0 38.2 57.2#



#84
1,2,4-Trimethylbenzene
Concen: 1.412 ug/l
RT: 11.750 min Scan# 1749
Delta R.T. -0.000 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion: 105 Resp: 29501
Ion Ratio Lower Upper
105 100
120 44.2 23.3 69.8

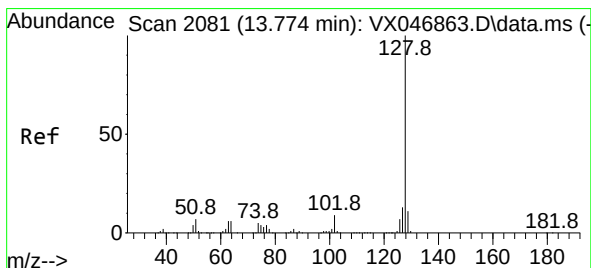
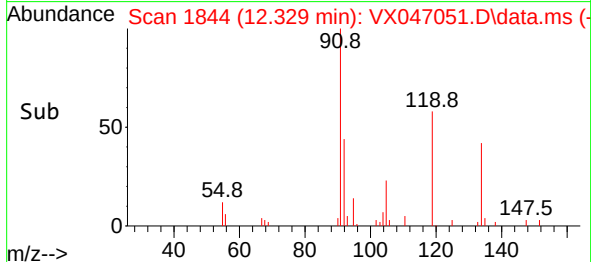
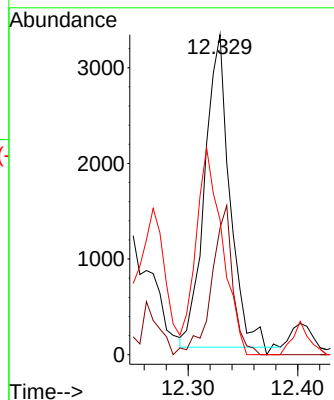
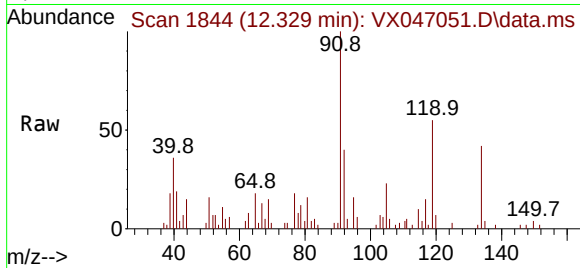




#89
n-Butylbenzene
Concen: 0.244 ug/l
RT: 12.329 min Scan# 1844
Delta R.T. -0.000 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Instrument :
MSVOA_X
ClientSampleId :
FRAC TANK

Tgt Ion:	91	Resp:	5163
Ion	Ratio	Lower	Upper
91	100		
92	40.5	27.0	81.0
134	70.0	12.8	38.4#



#95
Naphthalene
Concen: 0.374 ug/l
RT: 13.774 min Scan# 2081
Delta R.T. -0.000 min
Lab File: VX047051.D
Acq: 18 Jul 2025 15:42

Tgt Ion:	128	Resp:	7697
Ion	Ratio	Lower	Upper
128	100		
127	10.0	10.2	15.4#
129	14.6	8.6	13.0#

