

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW112625\
 Data File : VW032554.D
 Acq On : 26 Nov 2025 19:01
 Operator : SY/MD
 Sample : Q3721-01
 Misc : 6.52g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 20 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :

Quant Time: Nov 27 00:32:07 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W111025S.M
 Quant Title : SW846 8260
 QLast Update : Tue Nov 11 03:48:21 2025
 Response via : Initial Calibration

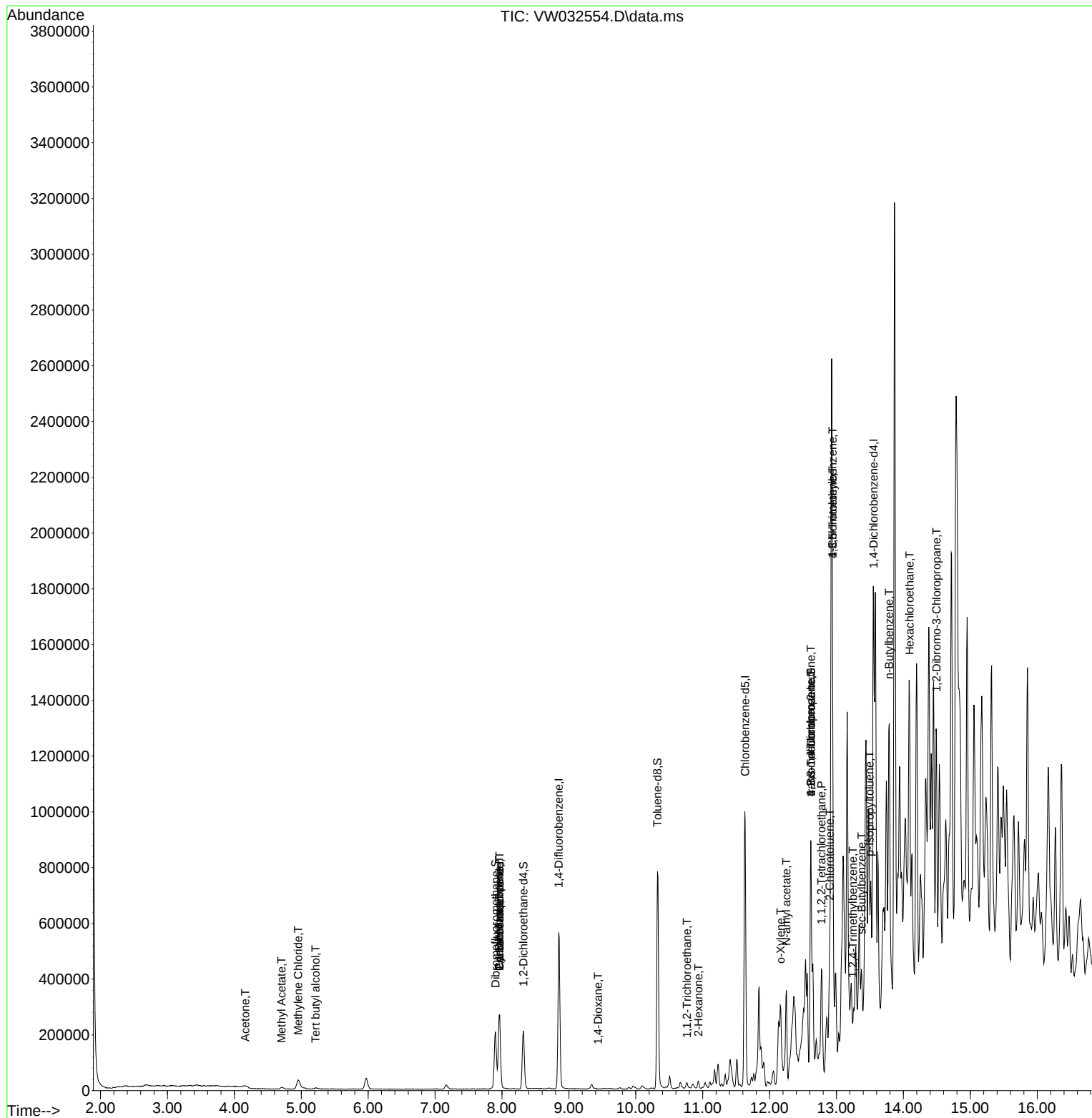
Compound	R.T.	QIon	Response	Conc	Units	Dev(Min)
Internal Standards						
1) Pentafluorobenzene	7.965	168	181732	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.849	114	457892	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	555831	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	282890	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	171962	73.395	ug/l	0.00
Spiked Amount	50.000	Range 63 - 155	Recovery	= 146.800%		
35) Dibromofluoromethane	7.904	113	148348	54.112	ug/l	0.00
Spiked Amount	50.000	Range 70 - 134	Recovery	= 108.220%		
50) Toluene-d8	10.325	98	503111	47.836	ug/l	0.00
Spiked Amount	50.000	Range 74 - 123	Recovery	= 95.680%		
62) 4-Bromofluorobenzene	12.617	95	260347	65.528	ug/l	0.00
Spiked Amount	50.000	Range 17 - 146	Recovery	= 131.060%		
Target Compounds						Qvalue
11) Tert butyl alcohol	5.216	59	6842	33.772	ug/l #	94
16) Acetone	4.161	43	4866	6.942	ug/l #	88
18) Methyl Acetate	4.704	43	12077	6.958	ug/l	95
20) Methylene Chloride	4.954	84	29996	11.966	ug/l	93
31) Cyclohexane	7.959	56	6590	1.700	ug/l #	22
36) 1,1-Dichloropropene	7.959	75	18283	4.526	ug/l #	51
38) Carbon Tetrachloride	7.965	117	20031	5.581	ug/l #	17
49) 1,4-Dioxane	9.434	88	40	1.509	ug/l #	1
55) 1,1,2-Trichloroethane	10.764	97	6136	2.363	ug/l #	25
59) 2-Hexanone	10.934	43	9244	4.297	ug/l #	31
69) o-Xylene	12.166	106	57803	7.757	ug/l	96
74) N-amyl acetate	12.251	43	66219	9.172	ug/l #	65
75) 1,1,2,2-Tetrachloroethane	12.775	83	27823	5.643	ug/l #	26
76) 1,2,3-Trichloropropane	12.617	75	133989	34.543	ug/l #	1
79) 2-Chlorotoluene	12.897	91	26678	1.727	ug/l #	43
80) 1,3,5-Trimethylbenzene	12.940	105	353838	20.643	ug/l	98
81) trans-1,4-Dichloro-2-b...	12.617	75	133989	79.119	ug/l #	12
82) 4-Chlorotoluene	12.940	91	38387	2.390	ug/l #	54
84) 1,2,4-Trimethylbenzene	13.245	105	18754	1.076	ug/l	96
85) sec-Butylbenzene	13.379	105	52366	2.358	ug/l	94
86) p-Isopropyltoluene	13.495	119	102255	5.577	ug/l	100
89) n-Butylbenzene	13.787	91	140270	7.831	ug/l #	1
90) Hexachloroethane	14.092	117	41570	12.575	ug/l #	18
92) 1,2-Dibromo-3-Chloropr...	14.495	75	1820	2.143	ug/l #	28

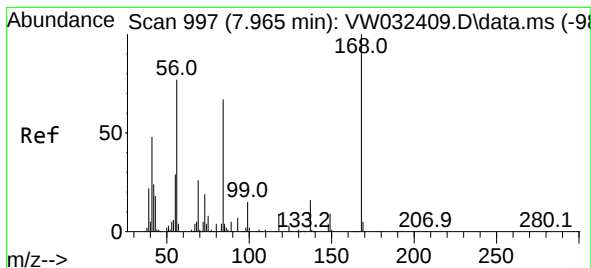
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Tue Nov 11 03:48:21 2025
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#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.965 min Scan# 997

Delta R.T. 0.000 min

Lab File: VW032554.D

Acq: 26 Nov 2025 19:01

Instrument :

MSVOA_W

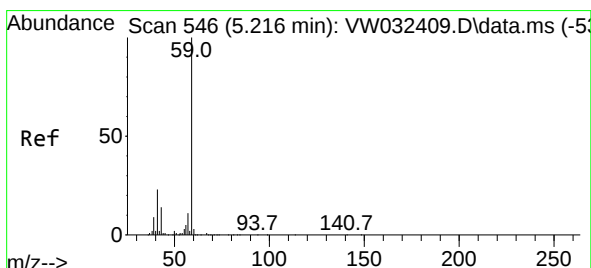
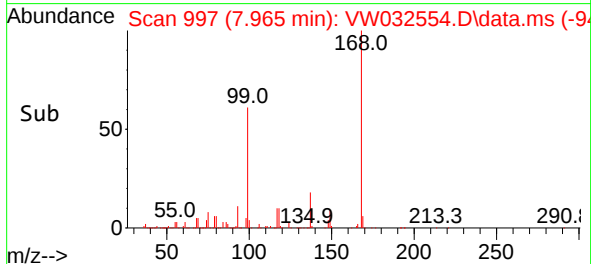
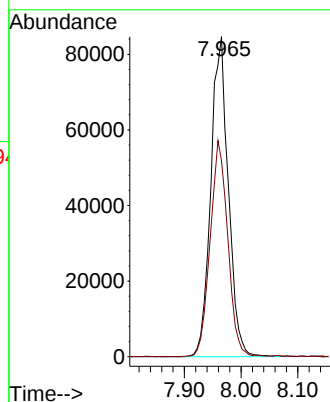
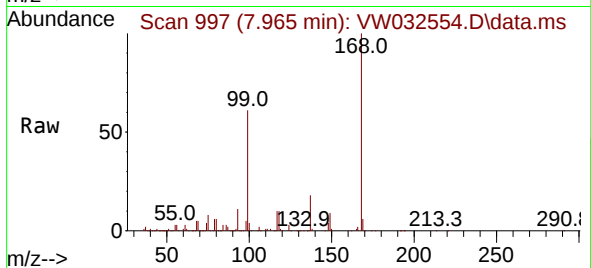
ClientSampleId :

Tgt Ion:168 Resp: 181732

Ion Ratio Lower Upper

168 100

99 61.3 45.4 68.2



#11

Tert butyl alcohol

Concen: 33.772 ug/l

RT: 5.216 min Scan# 546

Delta R.T. 0.000 min

Lab File: VW032554.D

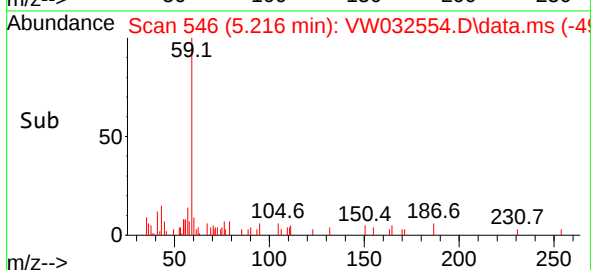
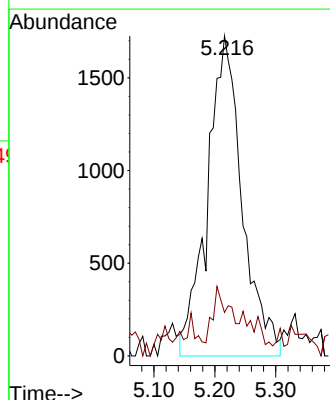
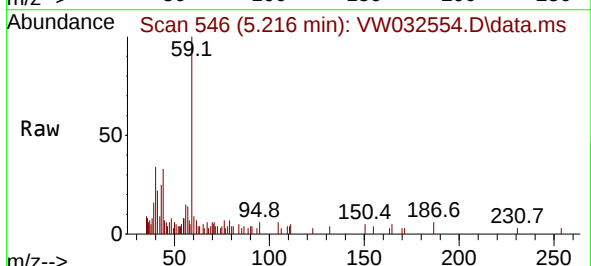
Acq: 26 Nov 2025 19:01

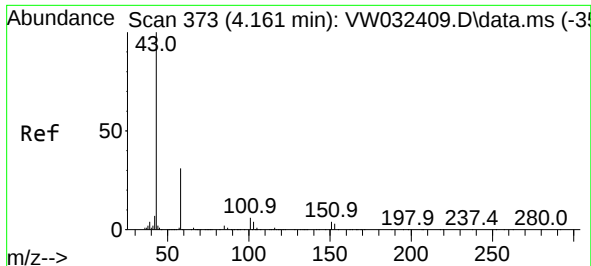
Tgt Ion: 59 Resp: 6842

Ion Ratio Lower Upper

59 100

57 8.3 8.6 12.8#

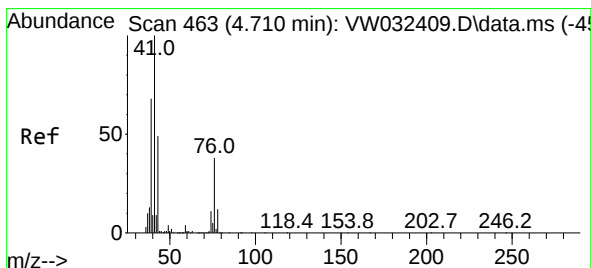
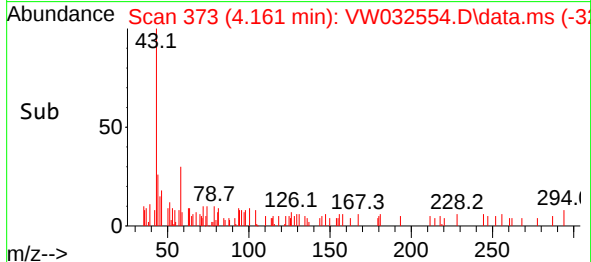
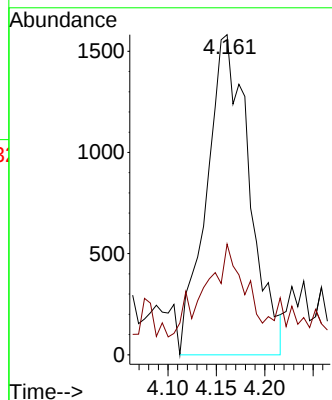
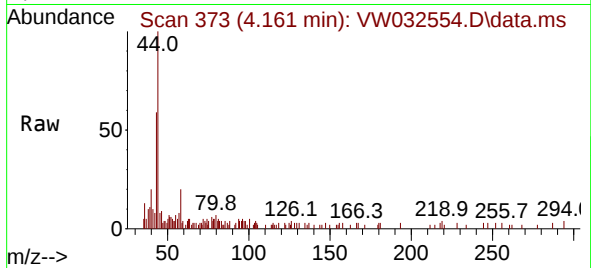




#16
Acetone
Concen: 6.942 ug/l
RT: 4.161 min Scan# 31
Delta R.T. 0.000 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

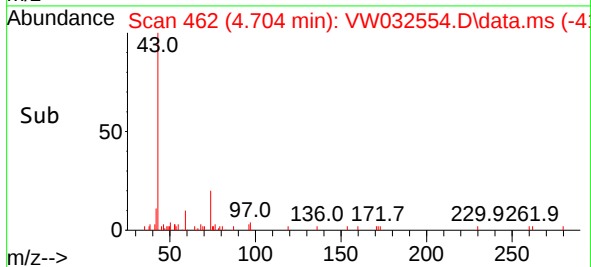
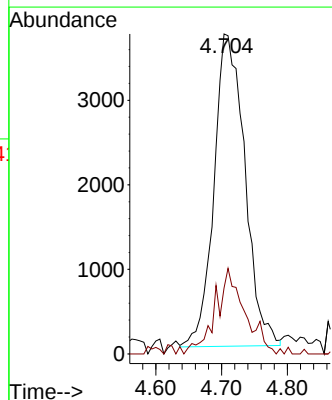
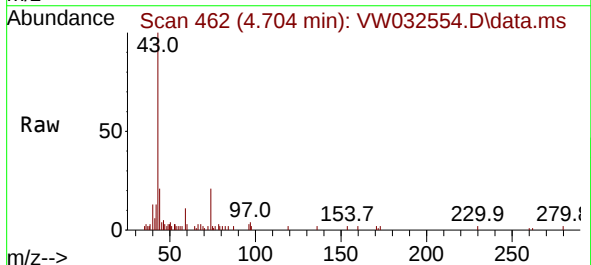
Instrument :
MSVOA_W
ClientSampleId :

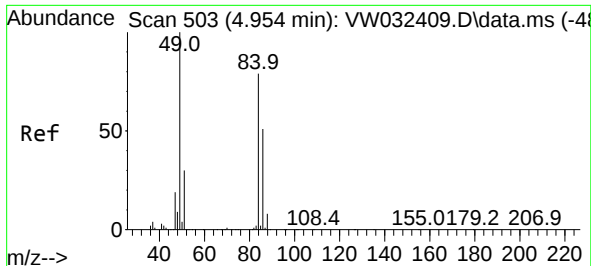
Tgt Ion: 43 Resp: 4866
Ion Ratio Lower Upper
43 100
58 24.7 24.8 37.2#



#18
Methyl Acetate
Concen: 6.958 ug/l
RT: 4.704 min Scan# 462
Delta R.T. -0.006 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

Tgt Ion: 43 Resp: 12077
Ion Ratio Lower Upper
43 100
74 25.9 18.9 28.3

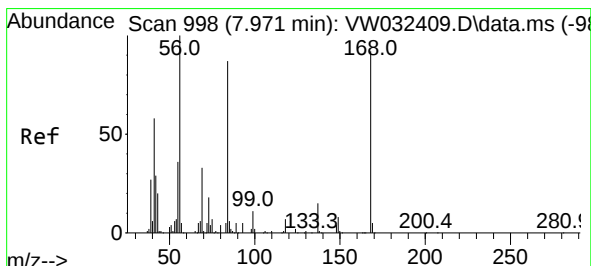
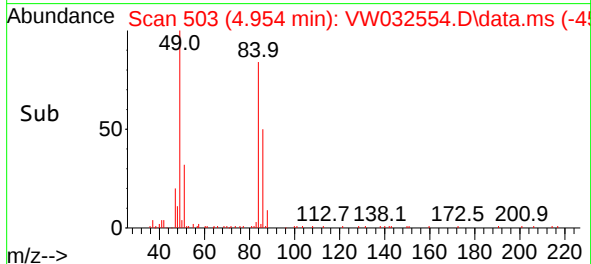
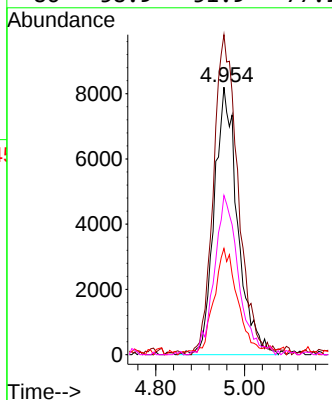
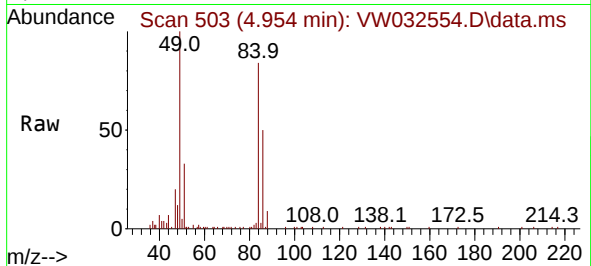




#20
Methylene Chloride
Concen: 11.966 ug/l
RT: 4.954 min Scan# 503
Delta R.T. 0.000 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

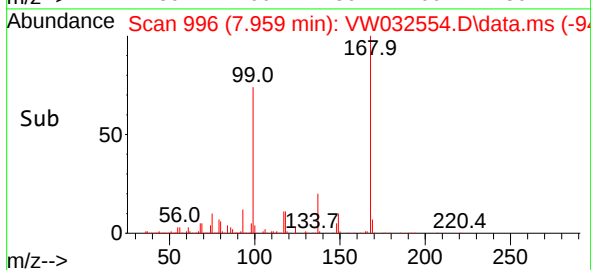
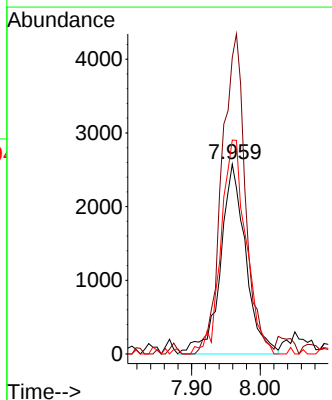
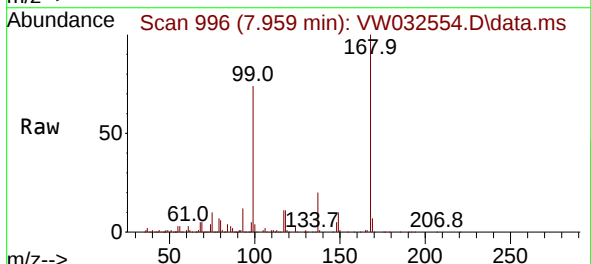
Instrument :
MSVOA_W
ClientSampleId :

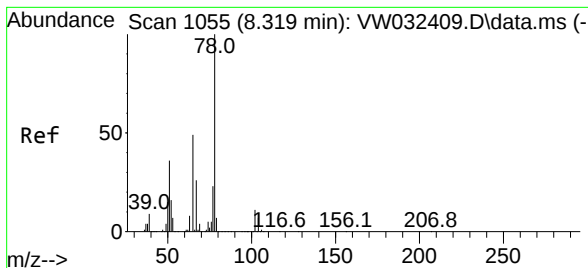
Tgt Ion:	84	Resp:	29996
Ion	Ratio	Lower	Upper
84	100		
49	118.2	101.5	152.3
51	37.8	30.6	46.0
86	58.9	51.9	77.9



#31
Cyclohexane
Concen: 1.700 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.012 min
Lab File: VW032554.D
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Tgt Ion:	56	Resp:	6590
Ion	Ratio	Lower	Upper
56	100		
69	151.2	26.5	39.7#
84	112.7	69.6	104.4#

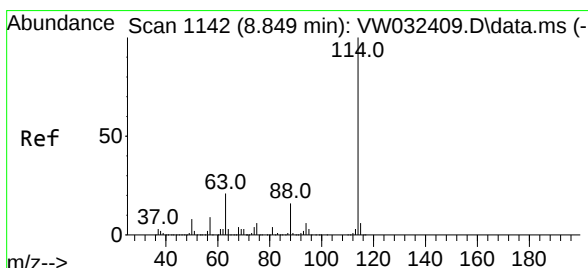
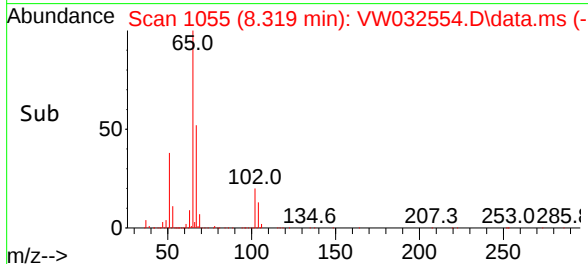
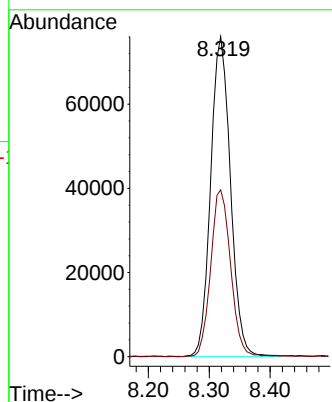
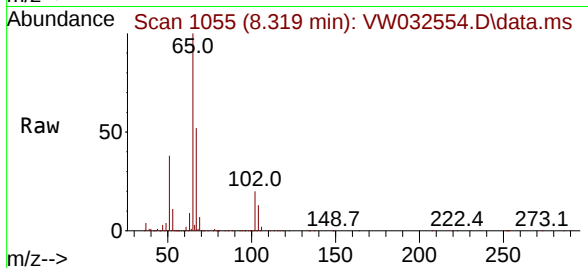




#33
 1,2-Dichloroethane-d4
 Concen: 73.395 ug/l
 RT: 8.319 min Scan# 1055
 Delta R.T. 0.000 min
 Lab File: VW032554.D
 Acq: 26 Nov 2025 19:01

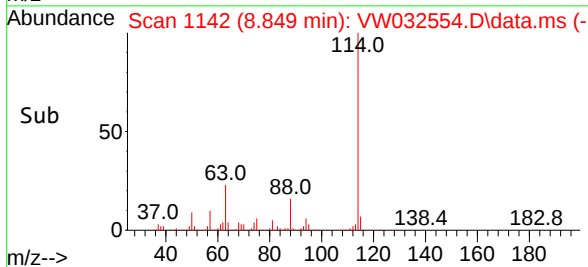
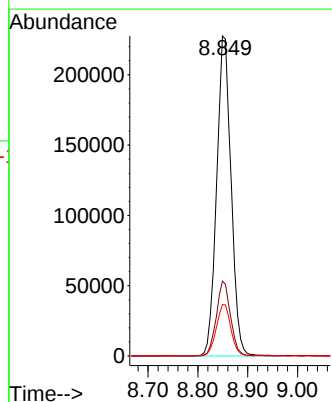
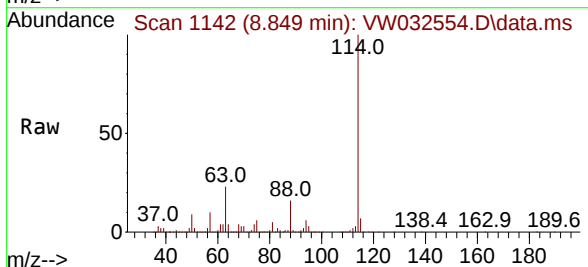
Instrument :
 MSVOA_W
 ClientSampleId :

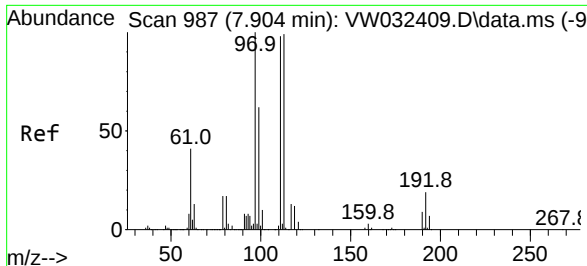
Tgt Ion: 65 Resp: 171962
 Ion Ratio Lower Upper
 65 100
 67 52.3 0.0 106.8



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.849 min Scan# 1142
 Delta R.T. 0.000 min
 Lab File: VW032554.D
 Acq: 26 Nov 2025 19:01

Tgt Ion: 114 Resp: 457892
 Ion Ratio Lower Upper
 114 100
 63 23.3 0.0 41.8
 88 16.1 0.0 32.6

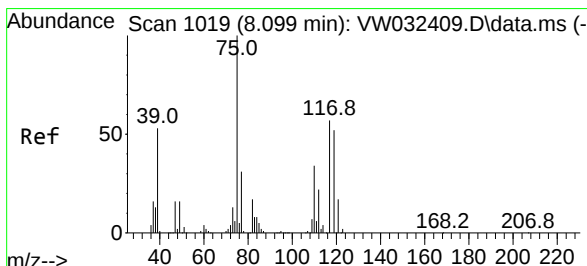
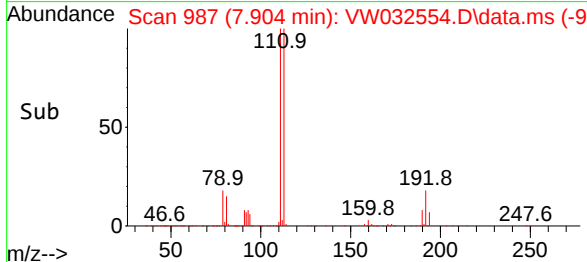
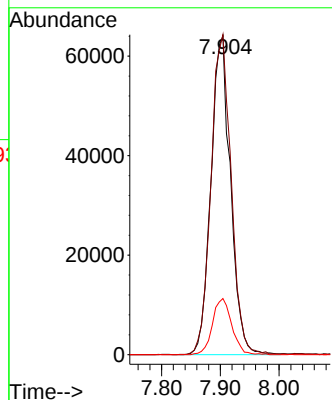
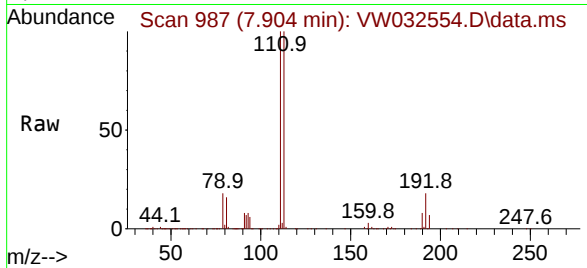




#35
Dibromofluoromethane
Concen: 54.112 ug/l
RT: 7.904 min Scan# 91
Delta R.T. 0.000 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

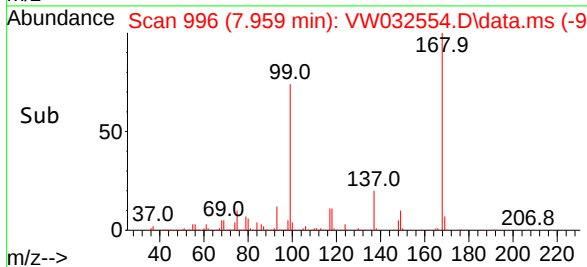
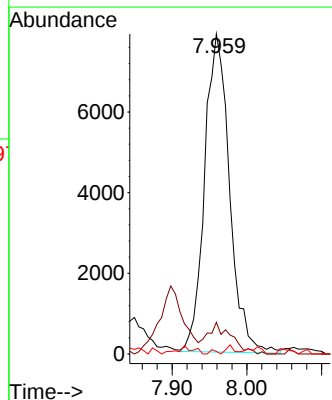
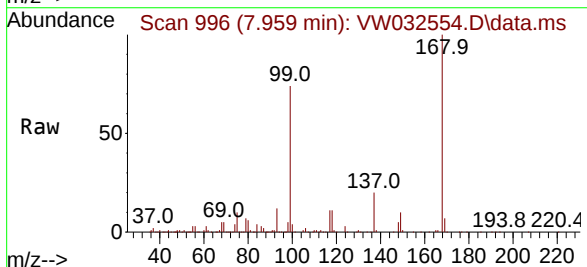
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ClientSampleId :

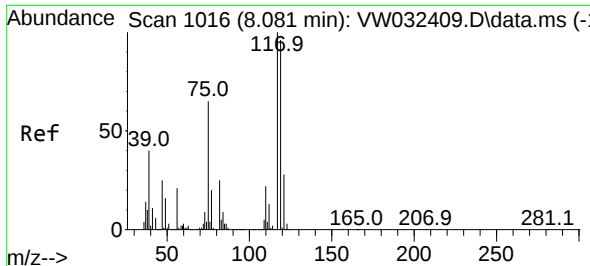
Tgt Ion:113 Resp: 148348
Ion Ratio Lower Upper
113 100
111 103.5 83.1 124.7
192 17.4 13.4 20.2



#36
1,1-Dichloropropene
Concen: 4.526 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.140 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

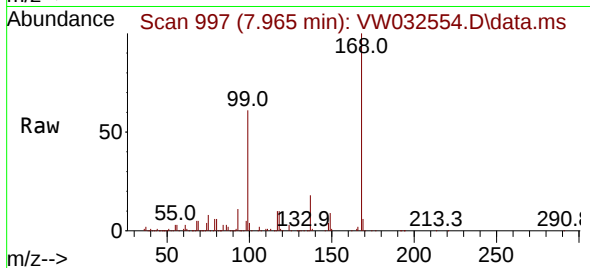
Tgt Ion: 75 Resp: 18283
Ion Ratio Lower Upper
75 100
110 9.5 17.2 51.5#
77 0.4 24.5 36.7#



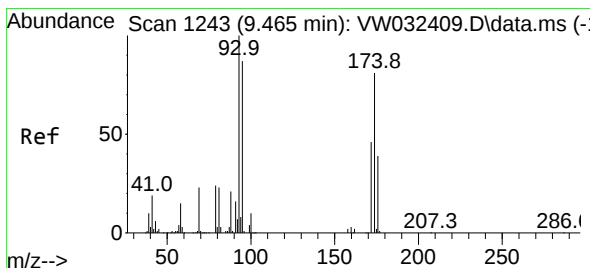
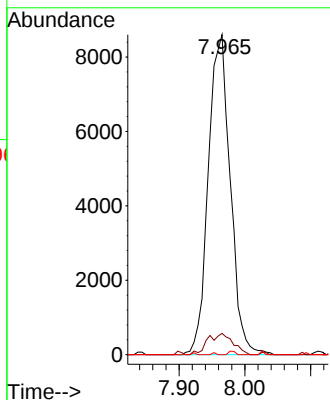
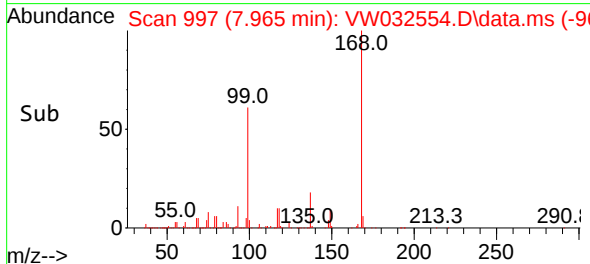


#38
Carbon Tetrachloride
Concen: 5.581 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.116 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

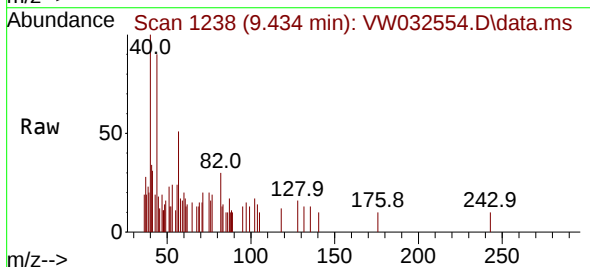
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MSVOA_W
ClientSampleId :



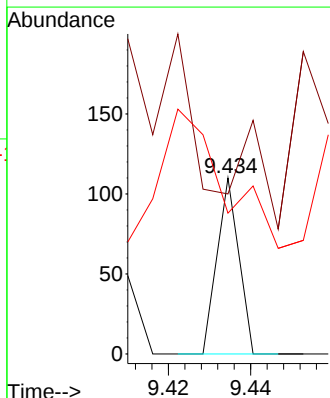
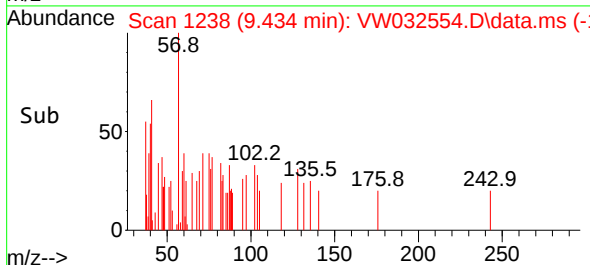
Tgt Ion:117 Resp: 20031
Ion Ratio Lower Upper
117 100
119 6.6 77.0 115.4#
121 0.0 22.0 33.0#

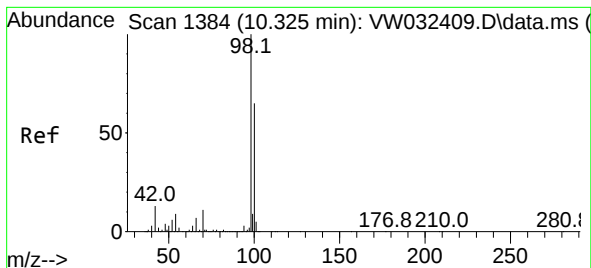


#49
1,4-Dioxane
Concen: 1.509 ug/l
RT: 9.434 min Scan# 1238
Delta R.T. -0.030 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01



Tgt Ion: 88 Resp: 40
Ion Ratio Lower Upper
88 100
43 0.0 0.0 0.0
58 590.0 63.0 94.4#

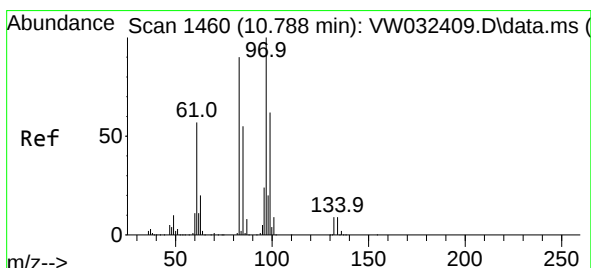
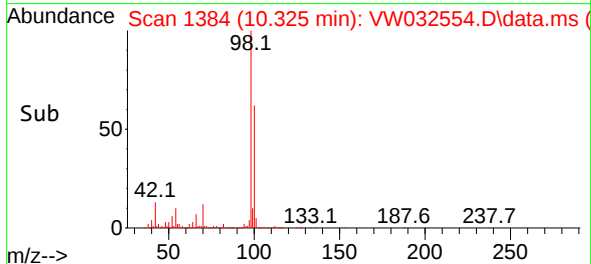
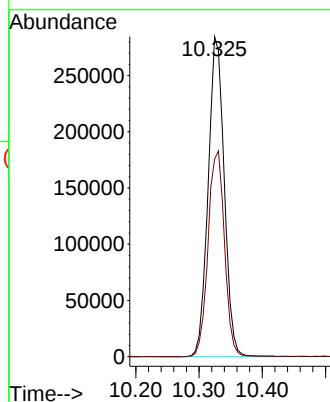
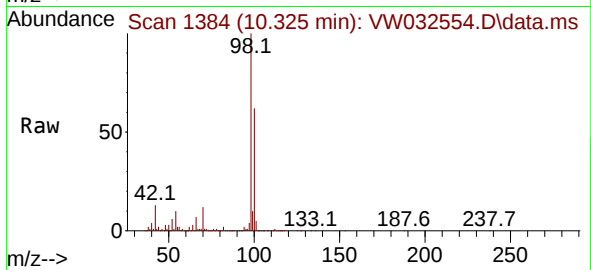




#50
Toluene-d8
Concen: 47.836 ug/l
RT: 10.325 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

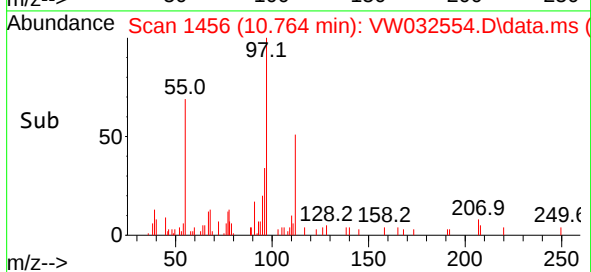
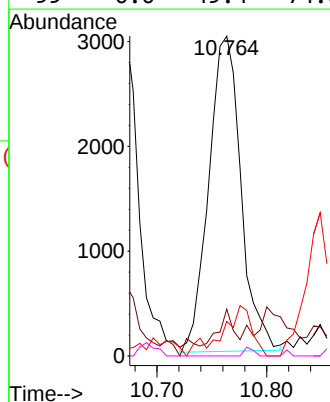
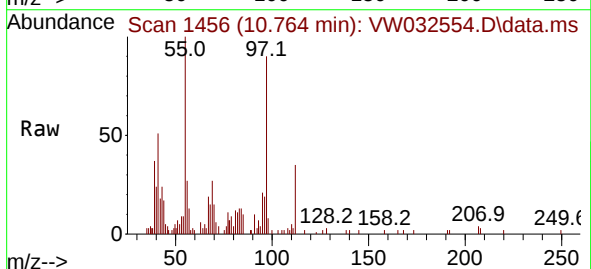
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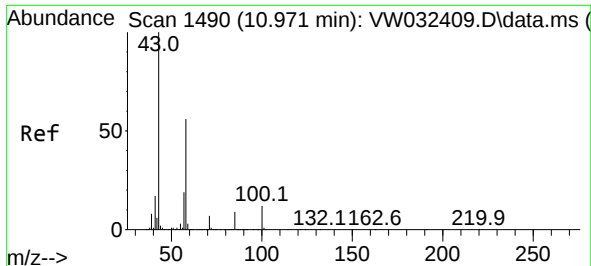
Tgt Ion: 98 Resp: 503111
Ion Ratio Lower Upper
98 100
100 65.8 53.3 79.9



#55
1,1,2-Trichloroethane
Concen: 2.363 ug/l
RT: 10.764 min Scan# 1456
Delta R.T. -0.024 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

Tgt Ion: 97 Resp: 6136
Ion Ratio Lower Upper
97 100
83 15.0 72.2 108.4#
85 11.1 43.8 65.8#
99 0.0 49.4 74.0#

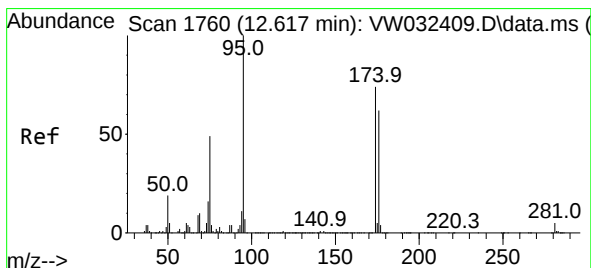
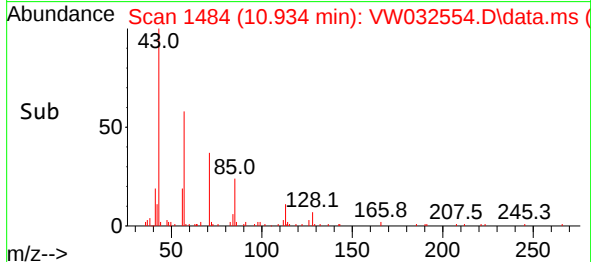
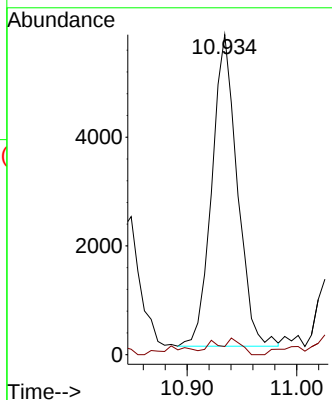
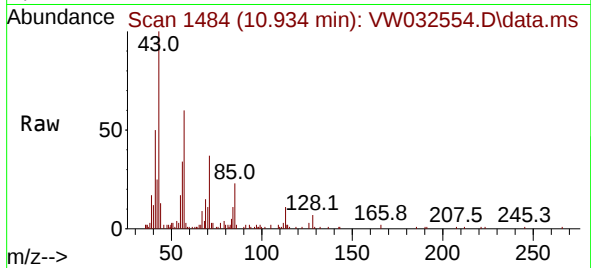




#59
2-Hexanone
Concen: 4.297 ug/l
RT: 10.934 min Scan# 1490
Delta R.T. -0.037 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

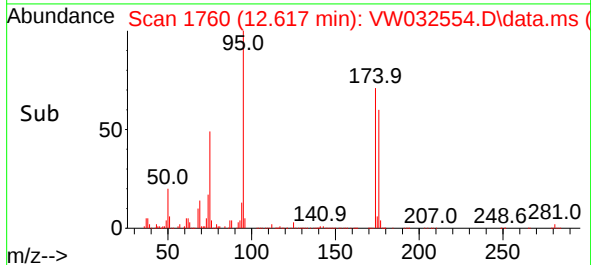
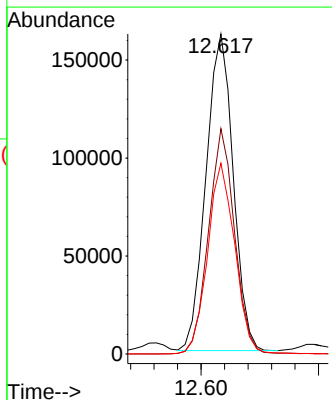
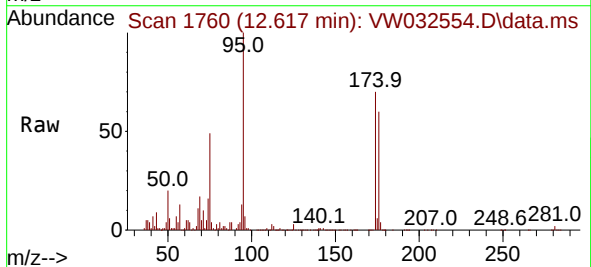
Instrument :
MSVOA_W
ClientSampleId :

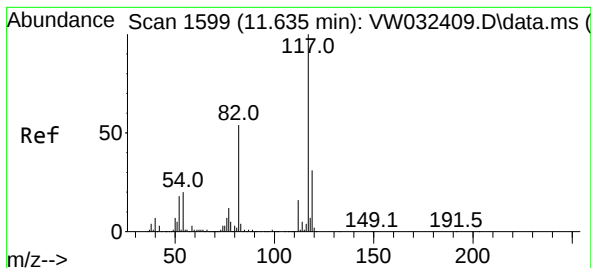
Tgt Ion: 43 Resp: 9244
Ion Ratio Lower Upper
43 100
58 5.3 27.4 82.2#



#62
4-Bromofluorobenzene
Concen: 65.528 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

Tgt Ion: 95 Resp: 260347
Ion Ratio Lower Upper
95 100
174 68.3 0.0 135.4
176 60.3 0.0 131.8

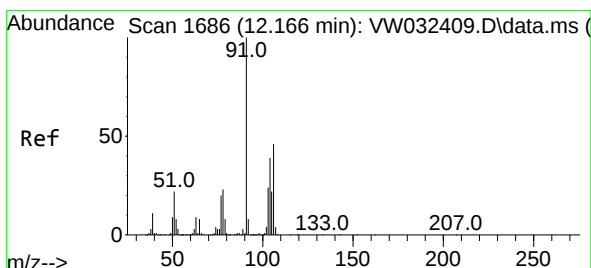
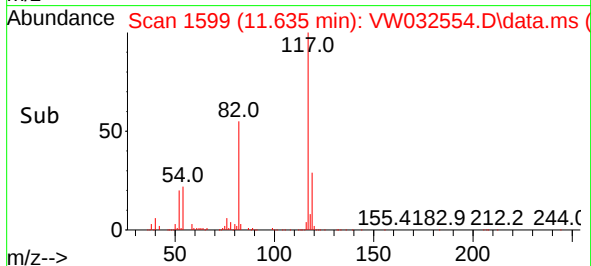
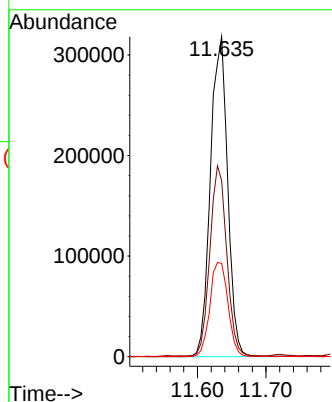
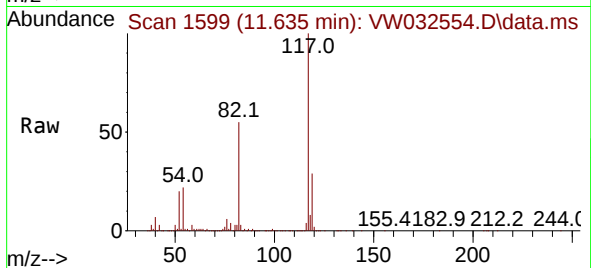




#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.635 min Scan# 117
Delta R.T. 0.000 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

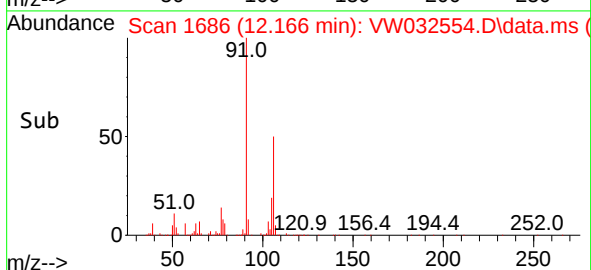
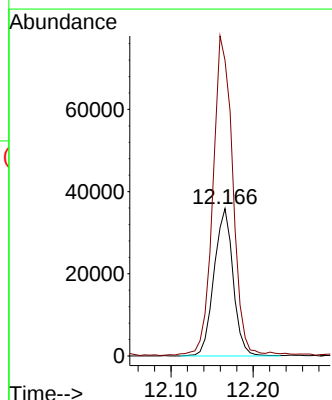
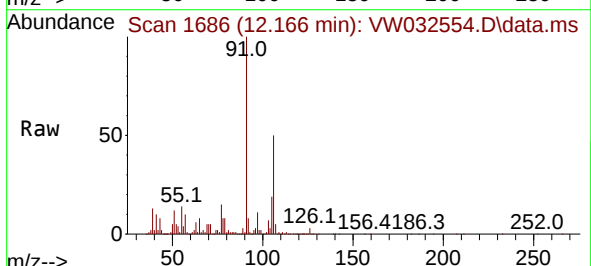
Instrument :
MSVOA_W
ClientSampleId :

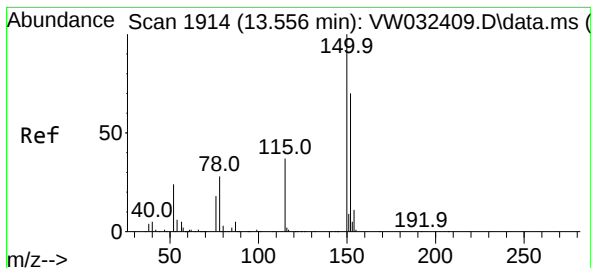
Tgt Ion:117 Resp: 555831
Ion Ratio Lower Upper
117 100
82 54.7 43.0 64.4
119 29.2 25.0 37.6



#69
o-Xylene
Concen: 7.757 ug/l
RT: 12.166 min Scan# 1686
Delta R.T. 0.000 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

Tgt Ion:106 Resp: 57803
Ion Ratio Lower Upper
106 100
91 224.3 109.3 327.8

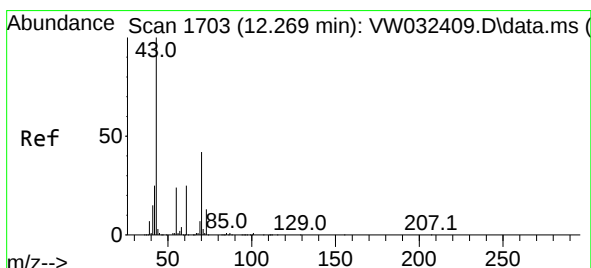
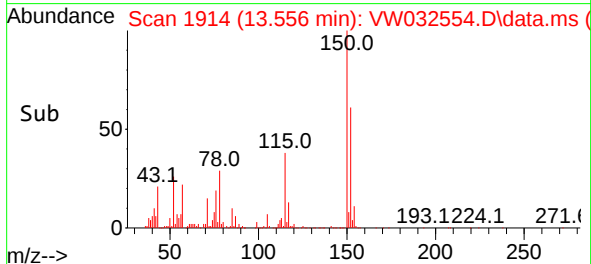
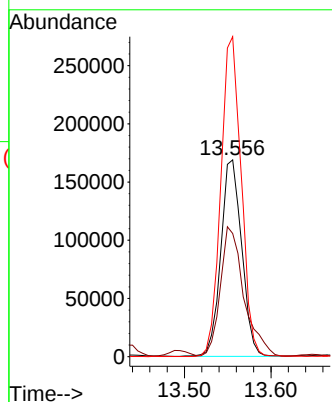
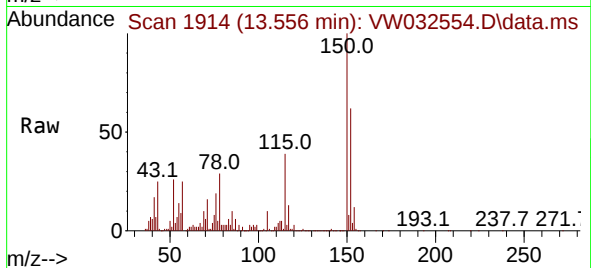




#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

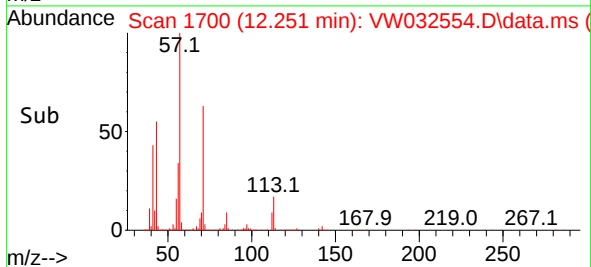
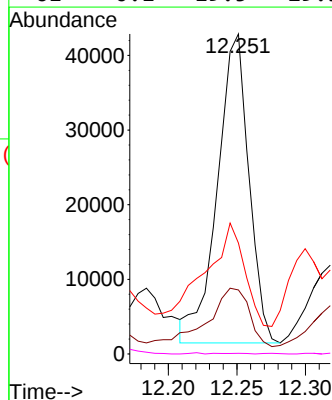
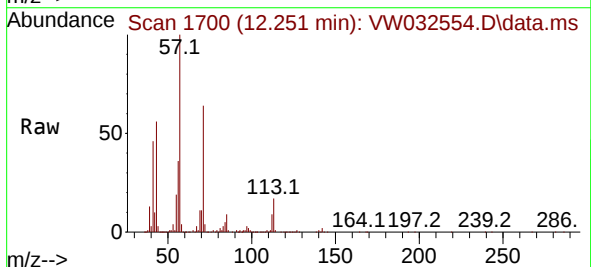
Instrument :
MSVOA_W
ClientSampleId :

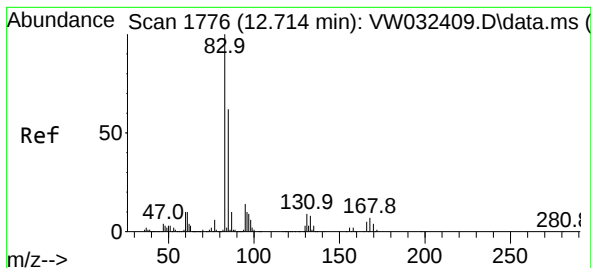
Tgt Ion:152 Resp: 282890
Ion Ratio Lower Upper
152 100
115 74.3 32.8 98.3
150 158.9 0.0 356.6



#74
N-ethyl acetate
Concen: 9.172 ug/l
RT: 12.251 min Scan# 1700
Delta R.T. -0.018 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

Tgt Ion: 43 Resp: 66219
Ion Ratio Lower Upper
43 100
70 25.5 33.5 50.3#
55 42.4 19.3 28.9#
61 0.1 19.5 29.3#

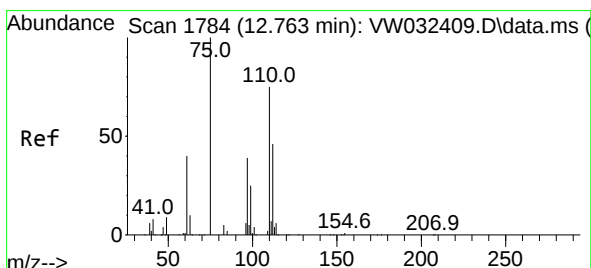
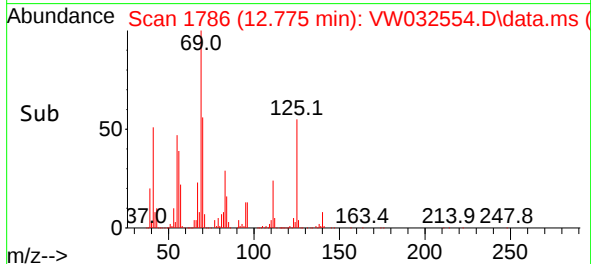
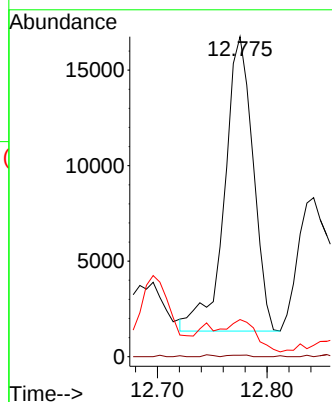
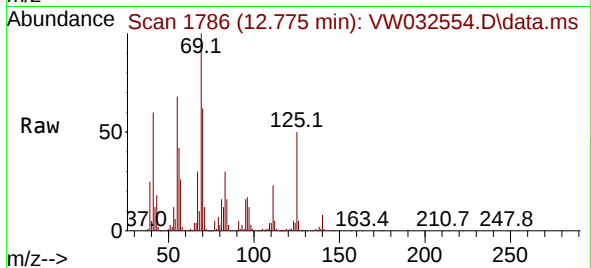




#75
1,1,2,2-Tetrachloroethane
Concen: 5.643 ug/l
RT: 12.775 min Scan# 11
Delta R.T. 0.061 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

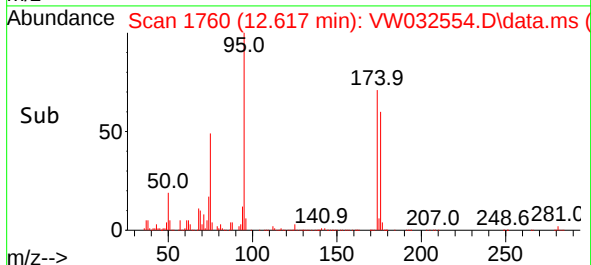
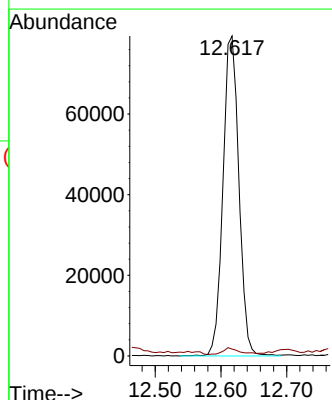
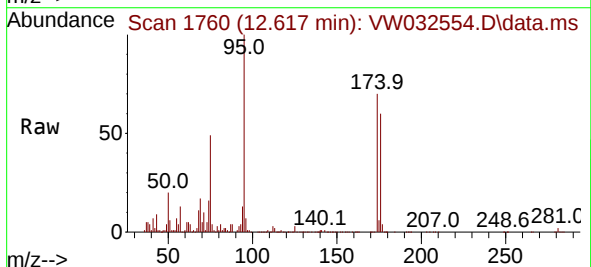
Instrument :
MSVOA_W
ClientSampleId :

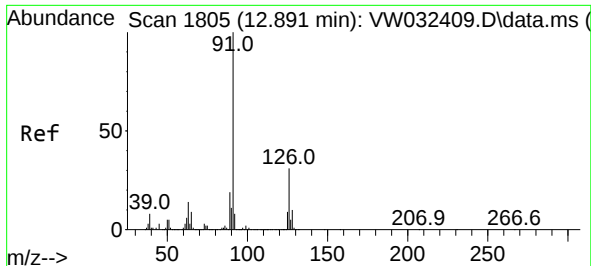
Tgt Ion: 83 Resp: 27823
Ion Ratio Lower Upper
83 100
131 0.4 5.0 14.9#
85 0.0 31.6 94.8#



#76
1,2,3-Trichloropropane
Concen: 34.543 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. -0.146 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

Tgt Ion: 75 Resp: 133989
Ion Ratio Lower Upper
75 100
77 2.1 151.6 454.8#

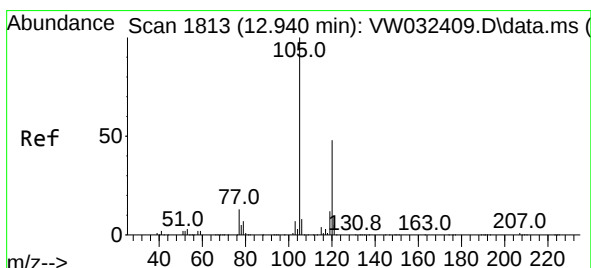
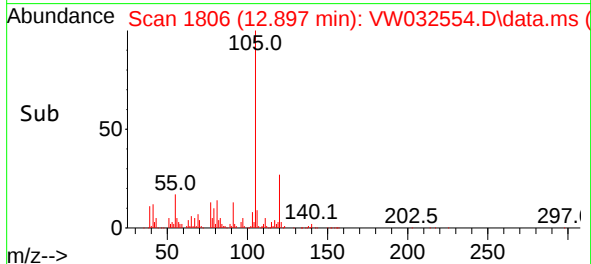
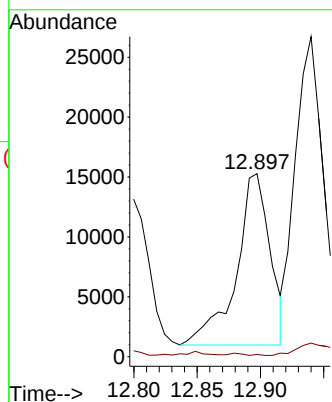
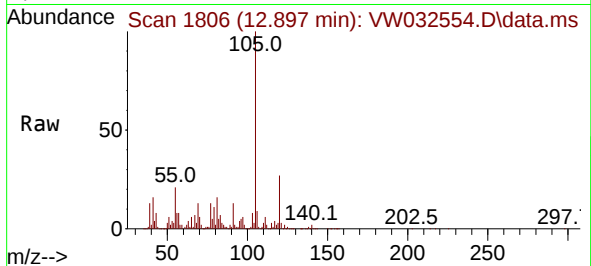




#79
2-Chlorotoluene
Concen: 1.727 ug/l
RT: 12.897 min Scan# 1806
Delta R.T. 0.006 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

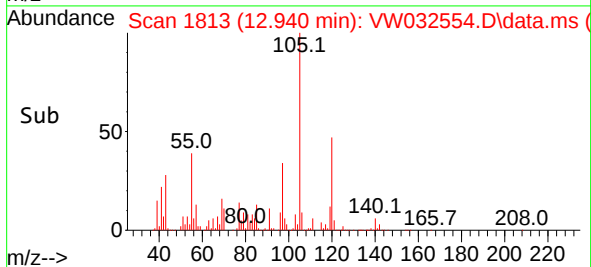
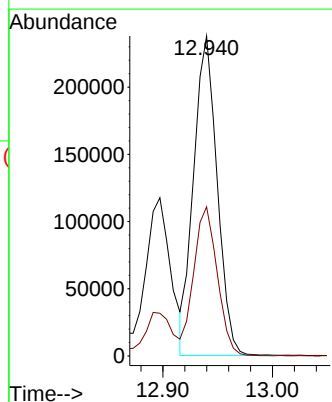
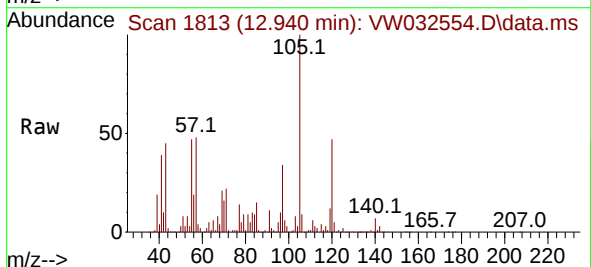
Instrument :
MSVOA_W
ClientSampleId :

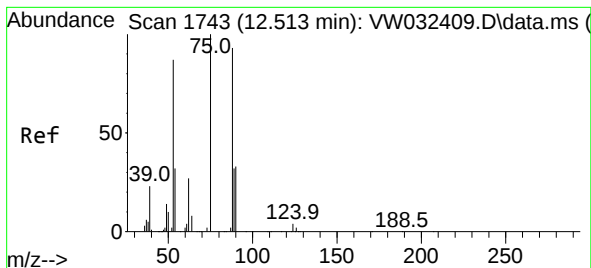
Tgt Ion: 91 Resp: 26678
Ion Ratio Lower Upper
91 100
126 0.0 16.1 48.2#



#80
1,3,5-Trimethylbenzene
Concen: 20.643 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. 0.000 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

Tgt Ion: 105 Resp: 353838
Ion Ratio Lower Upper
105 100
120 46.7 24.2 72.6

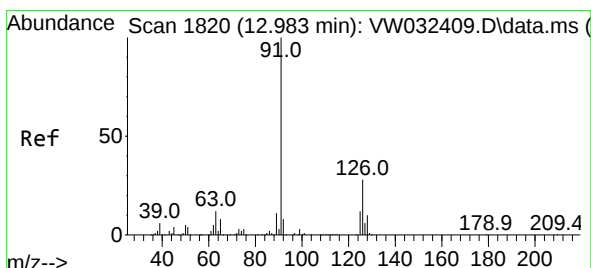
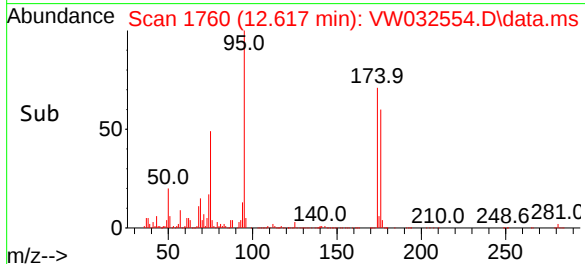
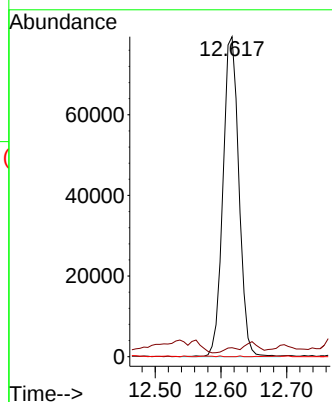
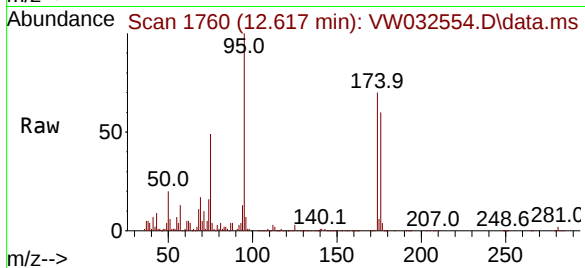




#81
trans-1,4-Dichloro-2-butene
Concen: 79.119 ug/l
RT: 12.617 min Scan# 11
Delta R.T. 0.104 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

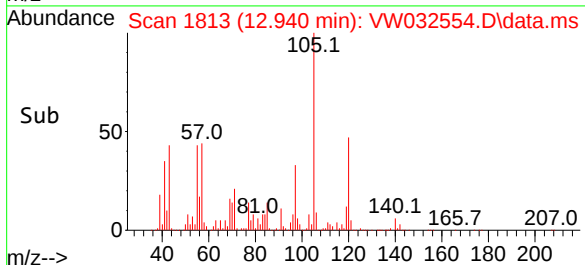
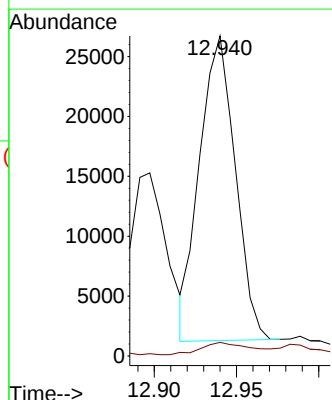
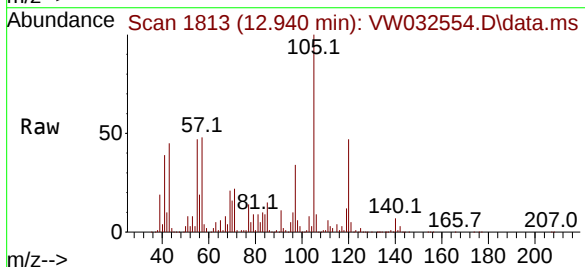
Instrument :
MSVOA_W
ClientSampleId :

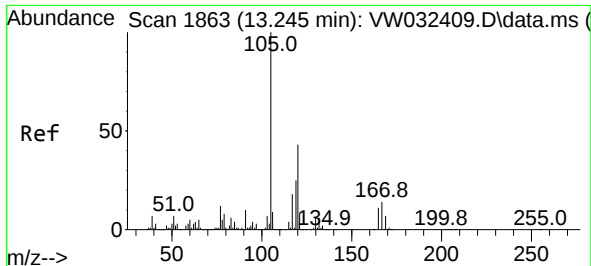
Tgt Ion: 75 Resp: 133989
Ion Ratio Lower Upper
75 100
53 1.4 77.8 116.8#
89 0.1 35.6 53.4#



#82
4-Chlorotoluene
Concen: 2.390 ug/l
RT: 12.940 min Scan# 1813
Delta R.T. -0.043 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

Tgt Ion: 91 Resp: 38387
Ion Ratio Lower Upper
91 100
126 5.7 15.5 46.5#

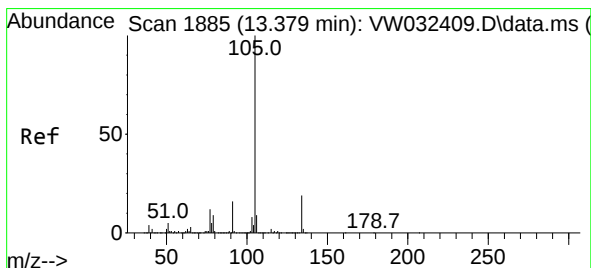
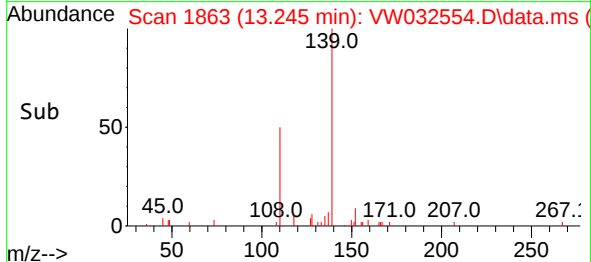
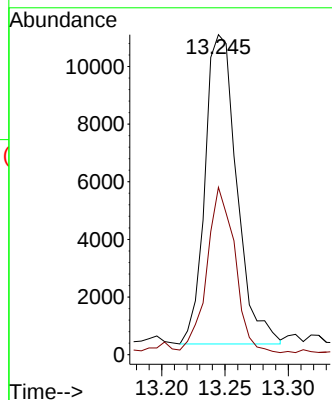
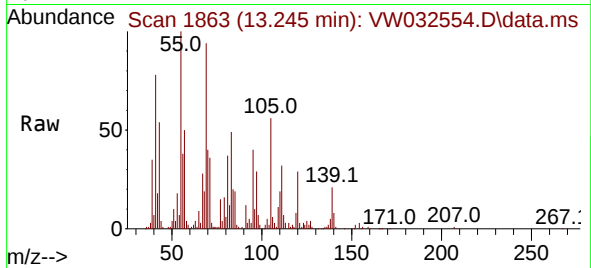




#84
1,2,4-Trimethylbenzene
Concen: 1.076 ug/l
RT: 13.245 min Scan# 1863
Delta R.T. 0.000 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

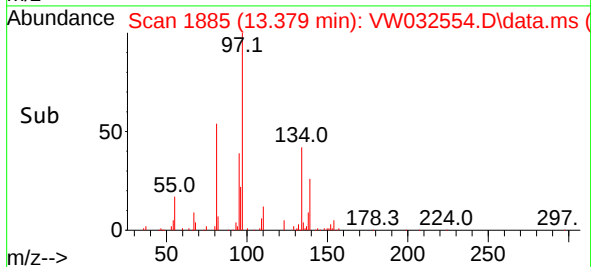
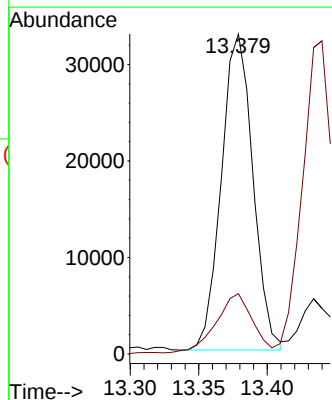
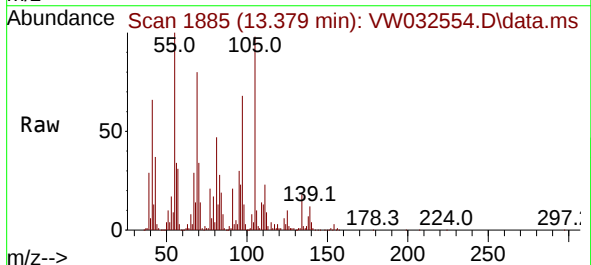
Instrument :
MSVOA_W
ClientSampleId :

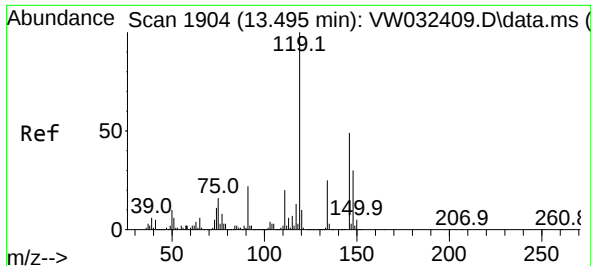
Tgt Ion:105 Resp: 18754
Ion Ratio Lower Upper
105 100
120 47.1 22.1 66.5



#85
sec-Butylbenzene
Concen: 2.358 ug/l
RT: 13.379 min Scan# 1885
Delta R.T. 0.000 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

Tgt Ion:105 Resp: 52366
Ion Ratio Lower Upper
105 100
134 22.3 9.8 29.3

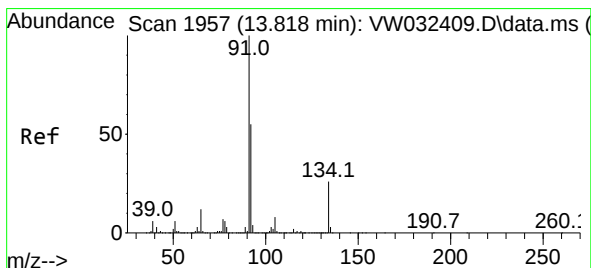
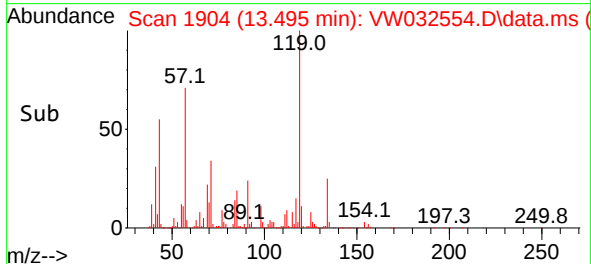
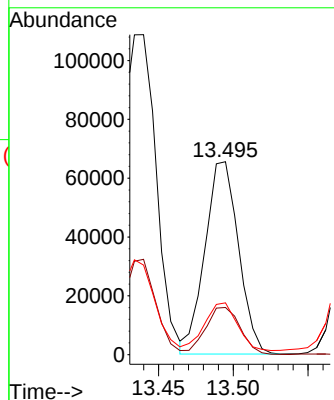
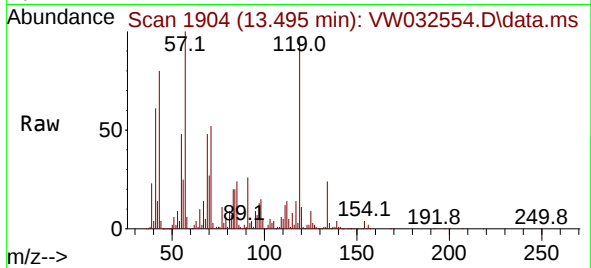




#86
 p-Isopropyltoluene
 Concen: 5.577 ug/l
 RT: 13.495 min Scan# 1904
 Delta R.T. 0.000 min
 Lab File: VW032554.D
 Acq: 26 Nov 2025 19:01

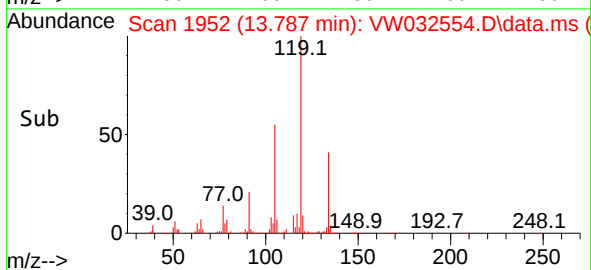
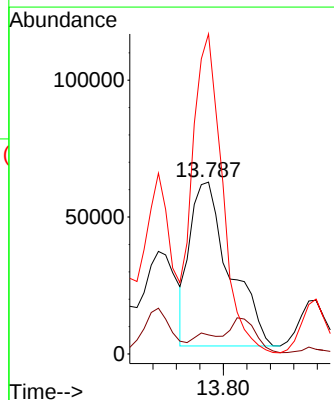
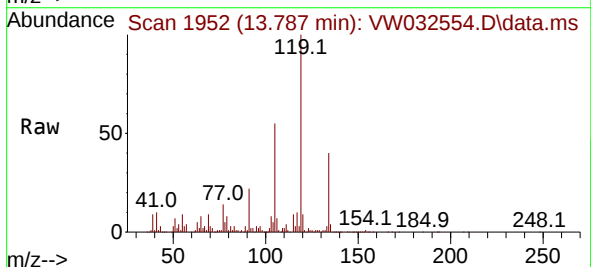
Instrument :
 MSVOA_W
 ClientSampleId :

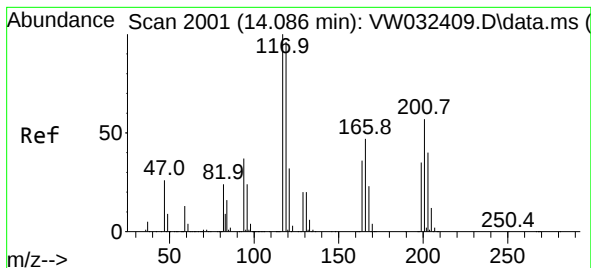
Tgt Ion:119 Resp: 102255
 Ion Ratio Lower Upper
 119 100
 134 25.3 12.7 38.1
 91 24.1 11.9 35.5



#89
 n-Butylbenzene
 Concen: 7.831 ug/l
 RT: 13.787 min Scan# 1952
 Delta R.T. -0.030 min
 Lab File: VW032554.D
 Acq: 26 Nov 2025 19:01

Tgt Ion: 91 Resp: 140270
 Ion Ratio Lower Upper
 91 100
 92 6.6 27.4 82.2#
 134 145.6 12.4 37.4#

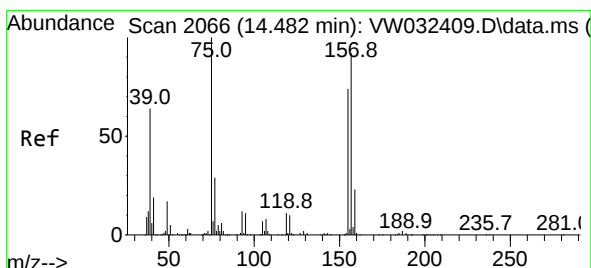
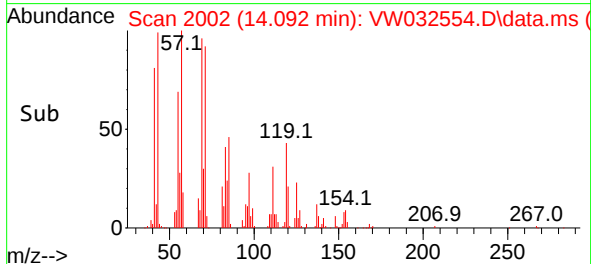
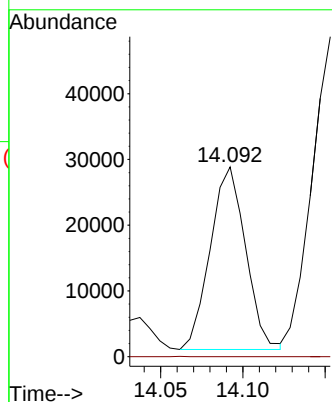
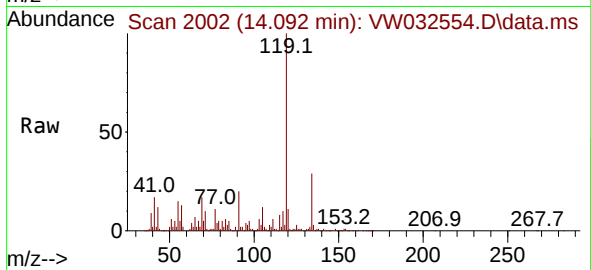




#90
Hexachloroethane
Concen: 12.575 ug/l
RT: 14.092 min Scan# 2001
Delta R.T. 0.006 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

Instrument :
MSVOA_W
ClientSampleId :

Tgt Ion:117 Resp: 41570
Ion Ratio Lower Upper
117 100
201 0.0 32.0 96.0#



#92
1,2-Dibromo-3-Chloropropane
Concen: 2.143 ug/l
RT: 14.495 min Scan# 2068
Delta R.T. 0.012 min
Lab File: VW032554.D
Acq: 26 Nov 2025 19:01

Tgt Ion: 75 Resp: 1820
Ion Ratio Lower Upper
75 100
155 38.7 36.2 108.6
157 2.4 47.8 143.3#

