

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092625\
 Data File : VW032273.D
 Acq On : 26 Sep 2025 12:33
 Operator : SY/MD
 Sample : Q3168-03RE
 Misc : 5.03g/5mL/MSVOA_W/SOIL/B
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 ARS20-0010-Oily Soil-SludgeRE

Quant Time: Sep 26 14:52:58 2025
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 26 07:11:42 2025
 Response via : Initial Calibration

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

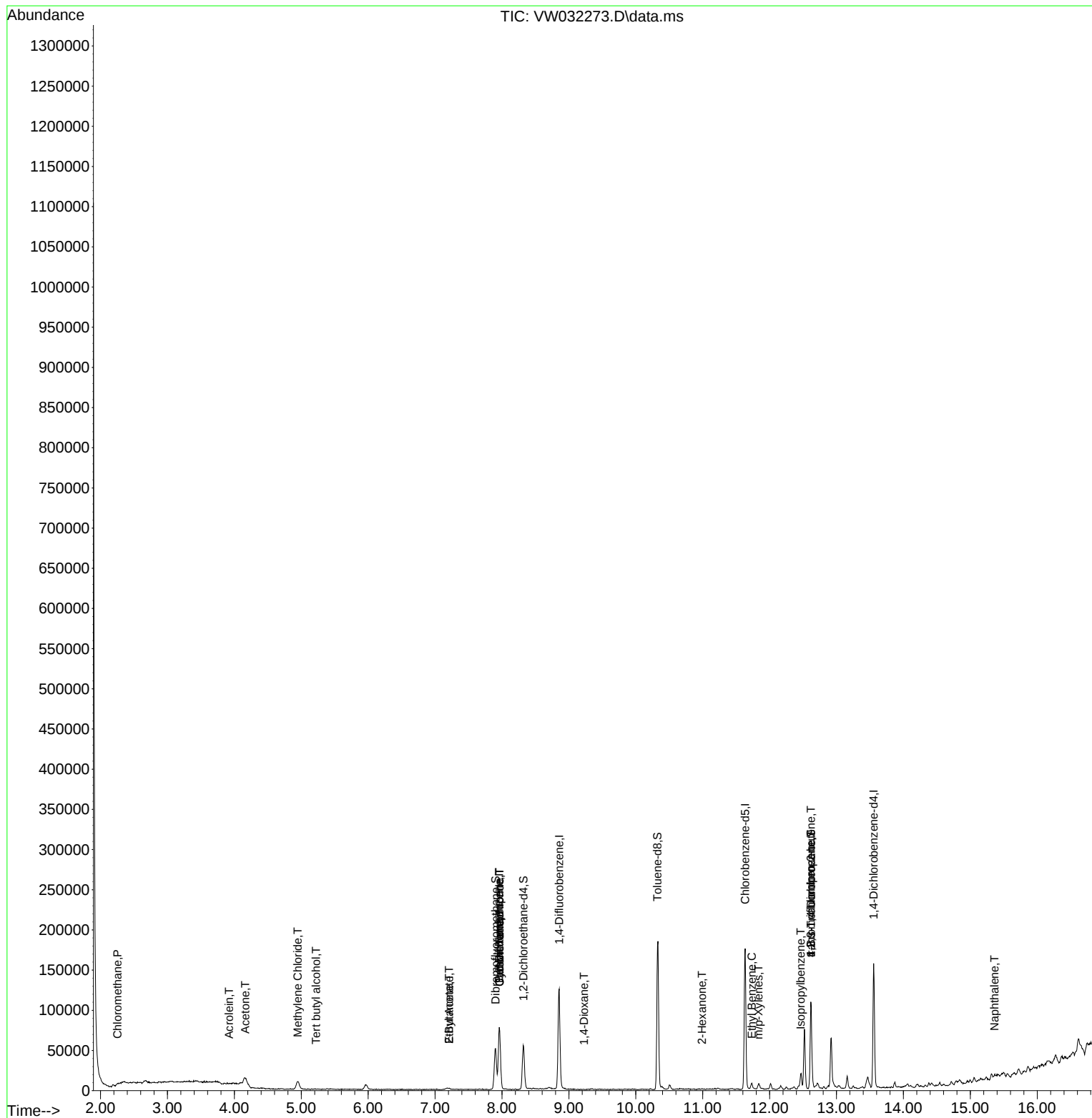
Internal Standards						
1) Pentafluorobenzene	7.959	168	51915	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	104410	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.635	117	96866	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.556	152	38109	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.319	65	45959	56.066	ug/l	0.00
Spiked Amount	50.000	Range	63 - 155	Recovery	=	112.140%
35) Dibromofluoromethane	7.904	113	37950	50.540	ug/l	0.00
Spiked Amount	50.000	Range	70 - 134	Recovery	=	101.080%
50) Toluene-d8	10.325	98	126241	46.649	ug/l	0.00
Spiked Amount	50.000	Range	74 - 123	Recovery	=	93.300%
62) 4-Bromofluorobenzene	12.617	95	38054	37.279	ug/l	0.00
Spiked Amount	50.000	Range	17 - 146	Recovery	=	74.560%
Target Compounds						
						Qvalue
3) Chloromethane	2.253	50	685	1.334	ug/l	96
11) Tert butyl alcohol	5.222	59	199	3.497	ug/l	99
13) Acrolein	3.923	56	223	2.202	ug/l #	27
16) Acetone	4.161	43	15458	73.429	ug/l	99
20) Methylene Chloride	4.948	84	7408	2.590	ug/l	95
25) 2-Butanone	7.209	43	2273	7.746	ug/l	98
31) Cyclohexane	7.965	56	1836	1.735	ug/l #	4
36) 1,1-Dichloropropene	7.959	75	5382	5.316	ug/l #	51
37) Ethyl Acetate	7.209	43	2273	3.385	ug/l #	69
38) Carbon Tetrachloride	7.965	117	6027	6.328	ug/l #	19
49) 1,4-Dioxane	9.227	88	19	2.796	ug/l #	10
59) 2-Hexanone	10.989	43	590	1.212	ug/l	91
67) Ethyl Benzene	11.733	91	4149	1.136	ug/l	91
68) m/p-Xylenes	11.837	106	1544	1.103	ug/l	95
73) Isopropylbenzene	12.464	105	3744	1.412	ug/l	92
76) 1,2,3-Trichloropropane	12.617	75	19583	37.351	ug/l #	1
81) trans-1,4-Dichloro-2-b...	12.617	75	19583	97.018	ug/l #	9
95) Naphthalene	15.360	128	4953	2.882	ug/l #	91

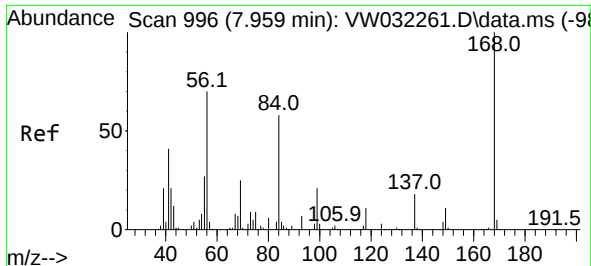
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\voasrv\HPCHEM1\MSVOA_W\Data\VW092625\
Data File : VW032273.D
Acq On : 26 Sep 2025 12:33
Operator : SY/MD
Sample : Q3168-03RE
Misc : 5.03g/5mL/MSVOA_W/SOIL/B
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
ARS20-0010-Oily Soil-SludgeRE

Quant Time: Sep 26 14:52:58 2025
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_W\Method\82W092525S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 26 07:11:42 2025
Response via : Initial Calibration

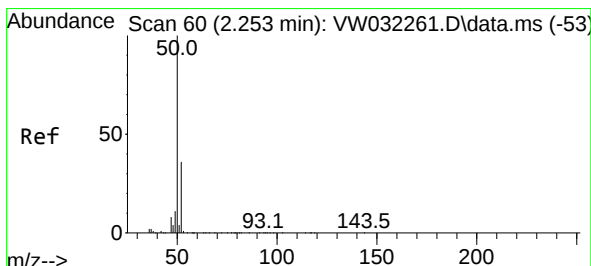
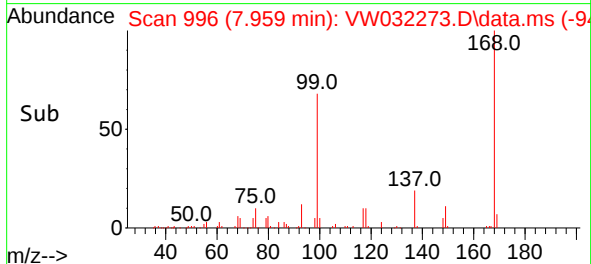
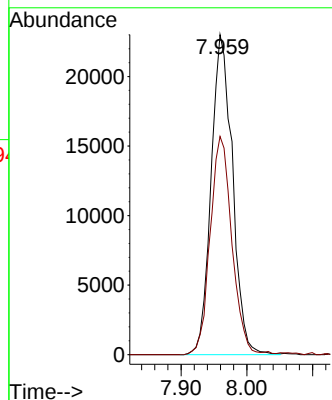
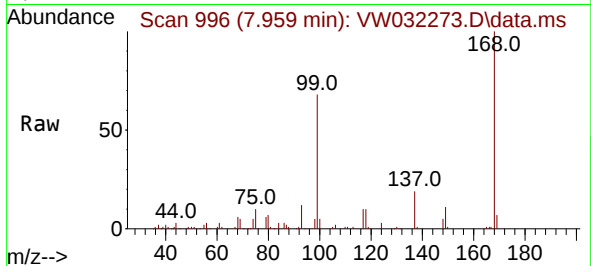




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.959 min Scan# 996
Delta R.T. 0.000 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

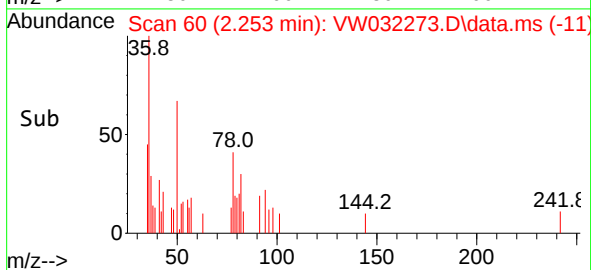
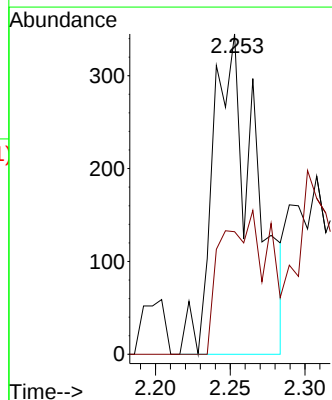
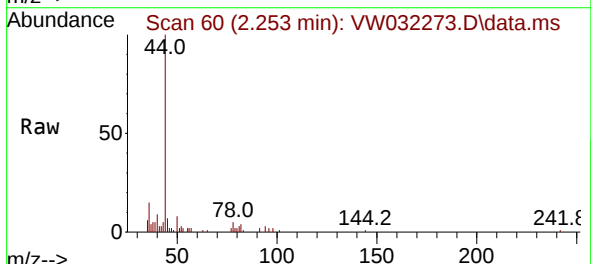
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0010-Oily Soil-SludgeRE

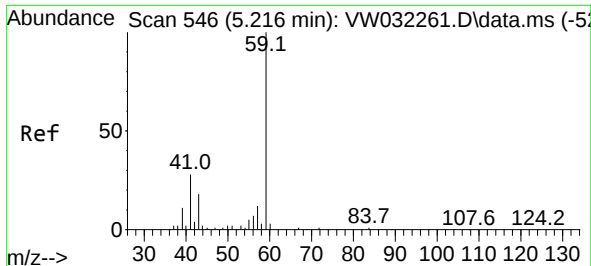
Tgt Ion:168 Resp: 51915
Ion Ratio Lower Upper
168 100
99 68.2 55.0 82.4



#3
Chloromethane
Concen: 1.334 ug/l
RT: 2.253 min Scan# 60
Delta R.T. 0.000 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

Tgt Ion: 50 Resp: 685
Ion Ratio Lower Upper
50 100
52 38.3 28.9 43.3

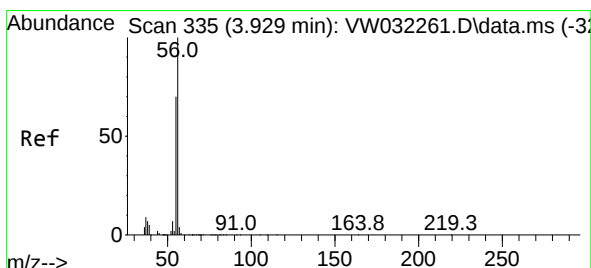
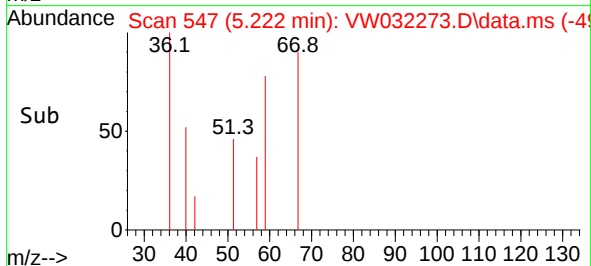
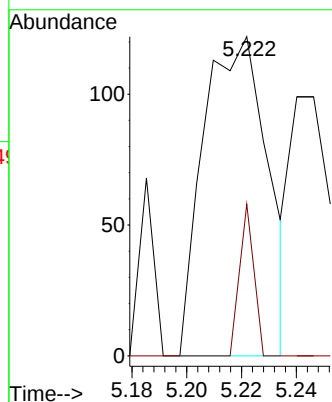
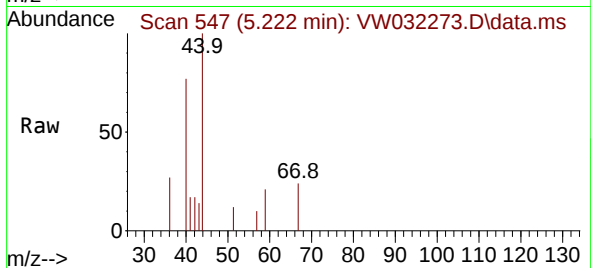




#11
Tert butyl alcohol
Concen: 3.497 ug/l
RT: 5.222 min Scan# 54
Delta R.T. 0.006 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

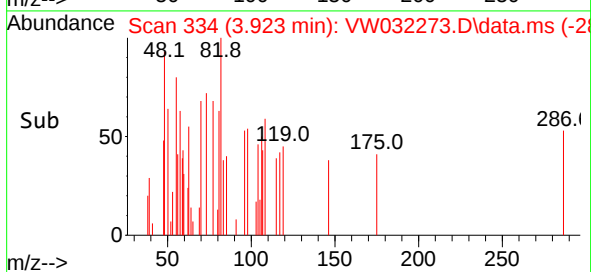
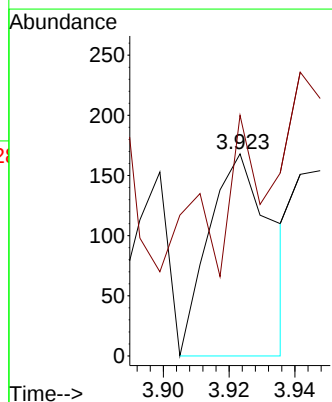
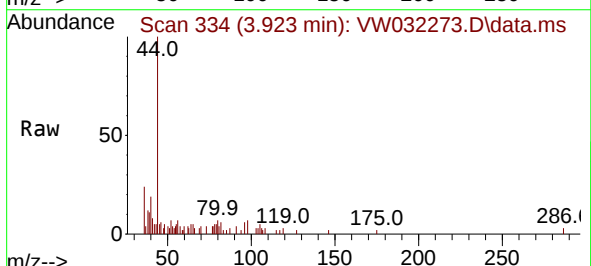
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0010-Oily Soil-SludgeRE

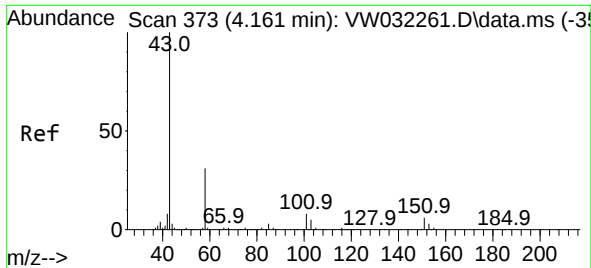
Tgt Ion: 59 Resp: 199
Ion Ratio Lower Upper
59 100
57 10.6 8.9 13.3



#13
Acrolein
Concen: 2.202 ug/l
RT: 3.923 min Scan# 334
Delta R.T. -0.006 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

Tgt Ion: 56 Resp: 223
Ion Ratio Lower Upper
56 100
55 125.1 53.2 79.8#

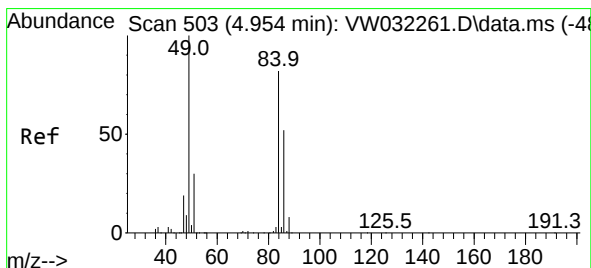
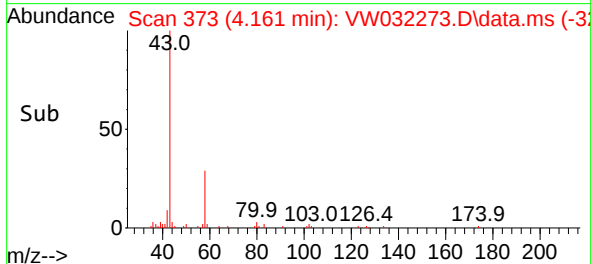
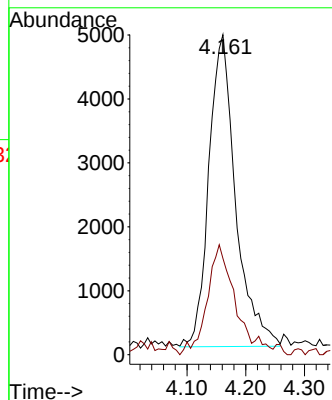
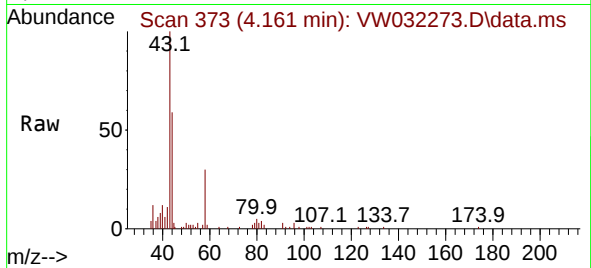




#16
Acetone
Concen: 73.429 ug/l
RT: 4.161 min Scan# 31
Delta R.T. 0.000 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

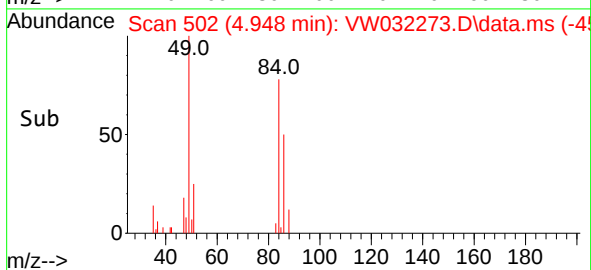
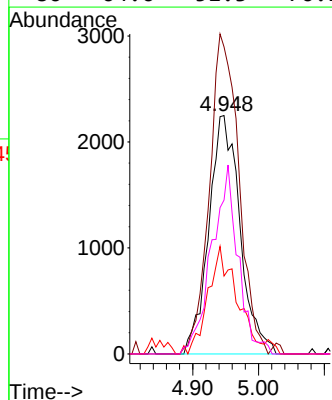
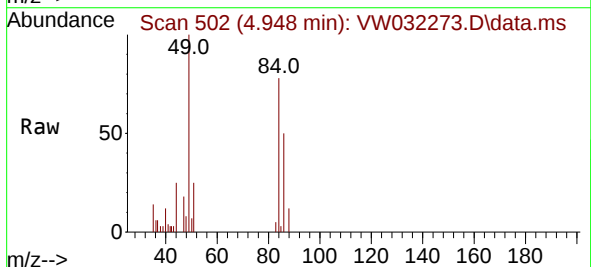
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0010-Oily Soil-SludgeRE

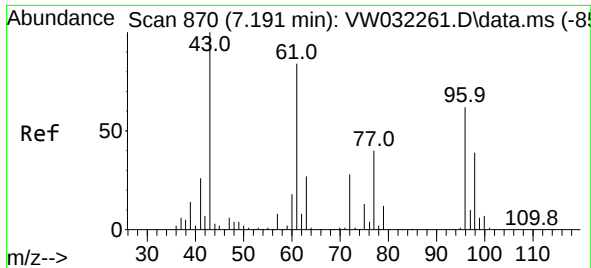
Tgt Ion: 43 Resp: 15458
Ion Ratio Lower Upper
43 100
58 30.9 25.4 38.0



#20
Methylene Chloride
Concen: 2.590 ug/l
RT: 4.948 min Scan# 502
Delta R.T. -0.006 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

Tgt Ion: 84 Resp: 7408
Ion Ratio Lower Upper
84 100
49 128.8 97.8 146.6
51 32.7 29.9 44.9
86 64.6 51.3 76.9

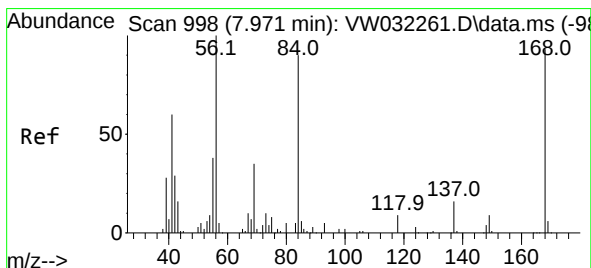
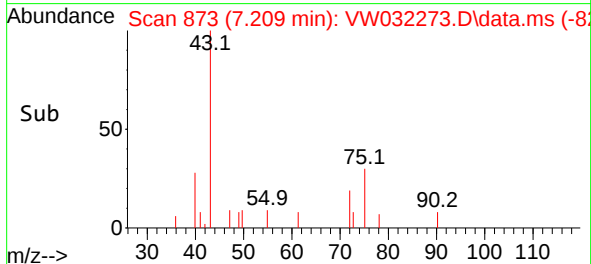
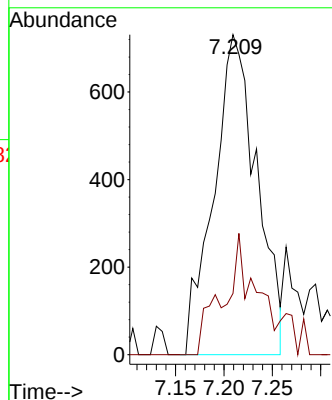
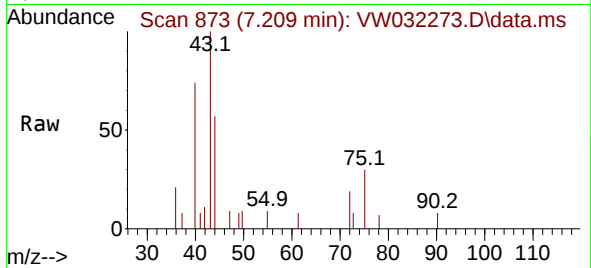




#25
2-Butanone
Concen: 7.746 ug/l
RT: 7.209 min Scan# 81
Delta R.T. 0.018 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

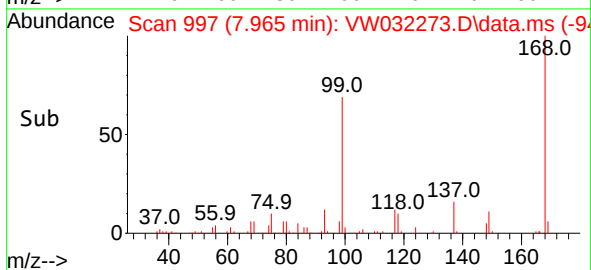
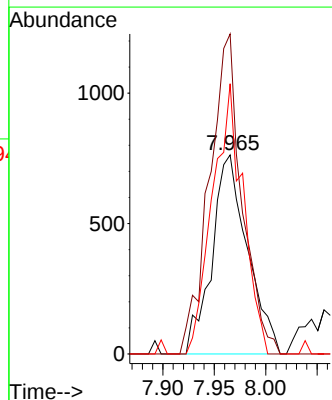
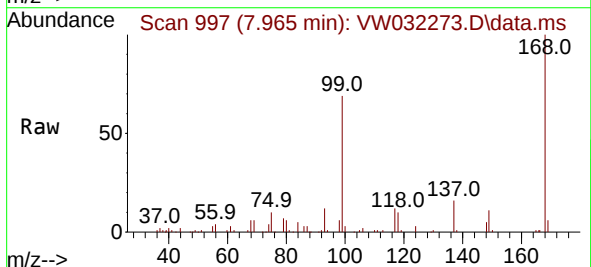
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0010-Oily Soil-SludgeRE

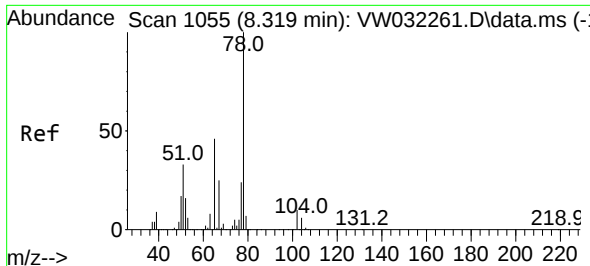
Tgt Ion: 43 Resp: 2273
Ion Ratio Lower Upper
43 100
72 26.7 22.3 33.5



#31
Cyclohexane
Concen: 1.735 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.006 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

Tgt Ion: 56 Resp: 1836
Ion Ratio Lower Upper
56 100
69 160.8 28.2 42.2#
84 135.8 71.8 107.6#





#33

1,2-Dichloroethane-d4

Concen: 56.066 ug/l

RT: 8.319 min Scan# 1055

Delta R.T. 0.000 min

Lab File: VW032273.D

Acq: 26 Sep 2025 12:33

Instrument :

MSVOA_W

ClientSampleId :

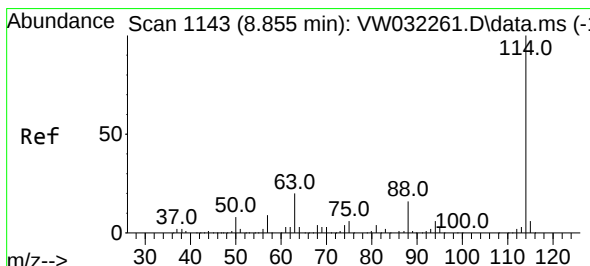
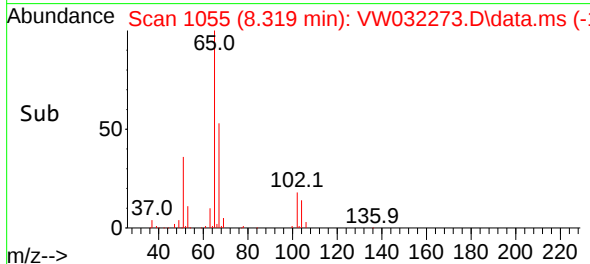
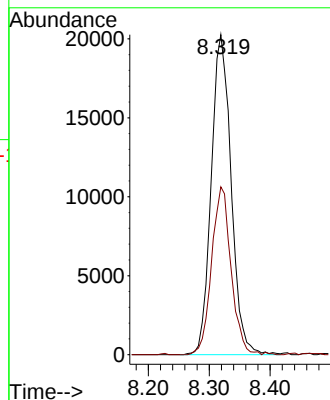
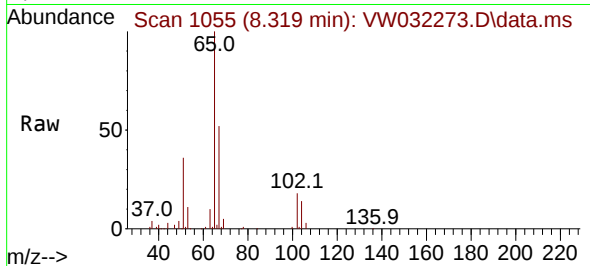
ARS20-0010-Oily Soil-SludgeRE

Tgt Ion: 65 Resp: 45959

Ion Ratio Lower Upper

65 100

67 51.2 0.0 105.8



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1143

Delta R.T. 0.000 min

Lab File: VW032273.D

Acq: 26 Sep 2025 12:33

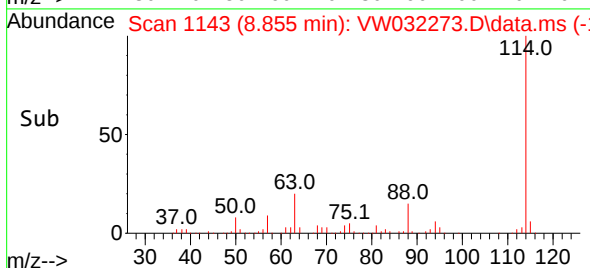
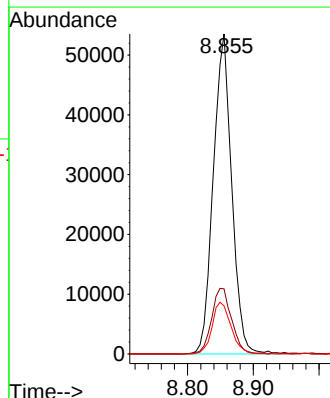
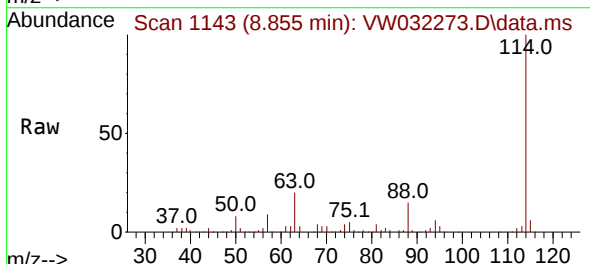
Tgt Ion: 114 Resp: 104410

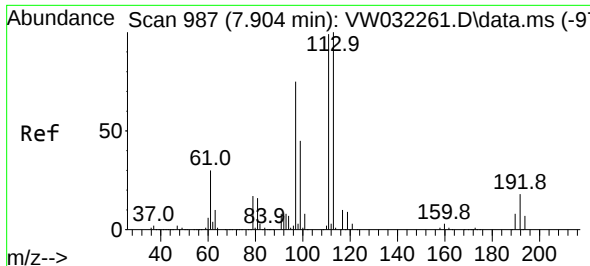
Ion Ratio Lower Upper

114 100

63 20.3 0.0 40.2

88 15.1 0.0 32.0

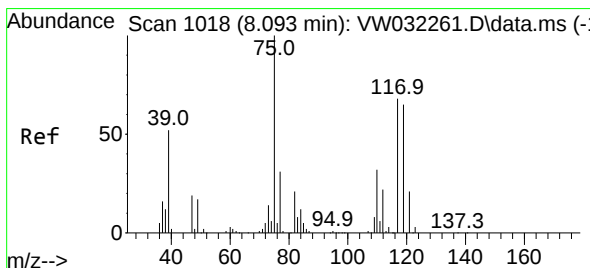
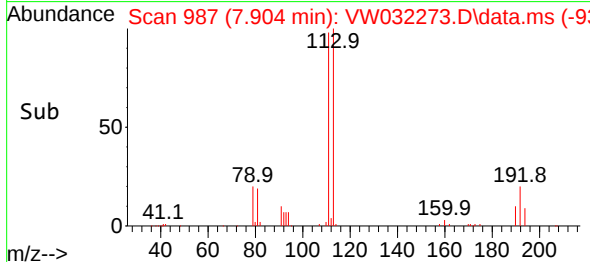
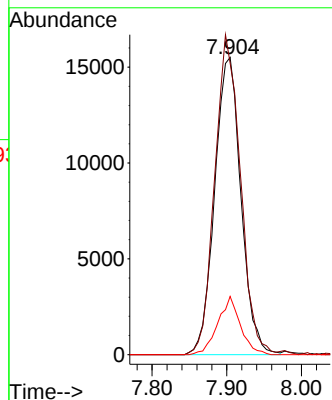
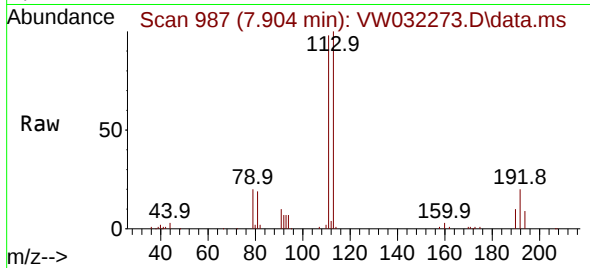




#35
Dibromofluoromethane
Concen: 50.540 ug/l
RT: 7.904 min Scan# 911
Delta R.T. 0.000 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

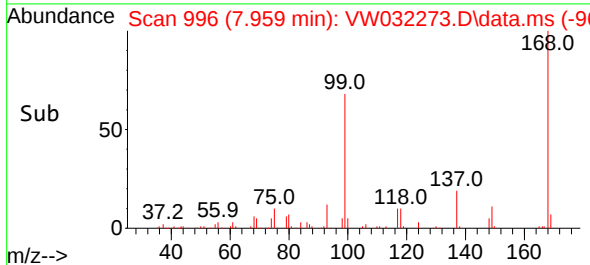
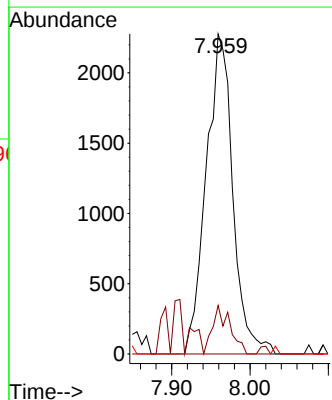
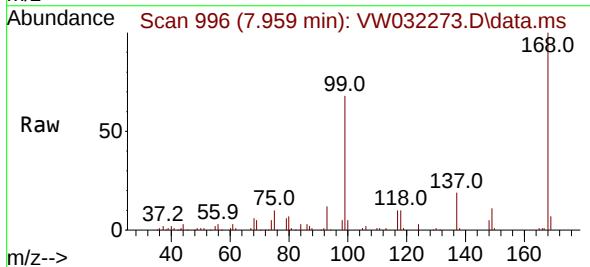
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0010-Oily Soil-SludgeRE

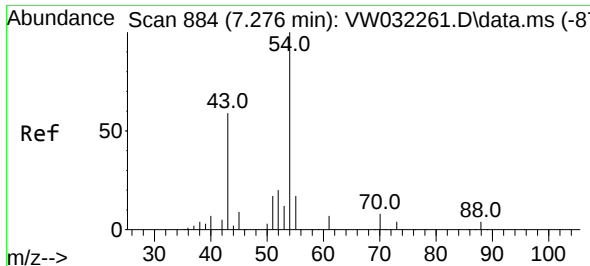
Tgt Ion:113 Resp: 37950
Ion Ratio Lower Upper
113 100
111 104.9 81.8 122.8
192 16.8 13.0 19.4



#36
1,1-Dichloropropene
Concen: 5.316 ug/l
RT: 7.959 min Scan# 996
Delta R.T. -0.134 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

Tgt Ion: 75 Resp: 5382
Ion Ratio Lower Upper
75 100
110 10.0 16.7 50.1#
77 0.0 25.2 37.8#

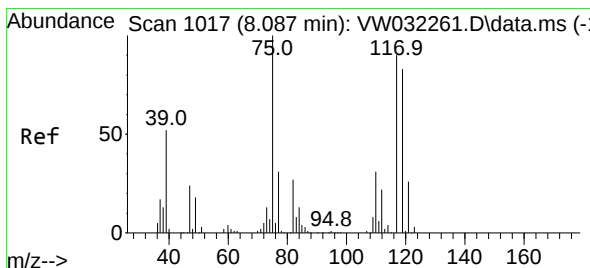
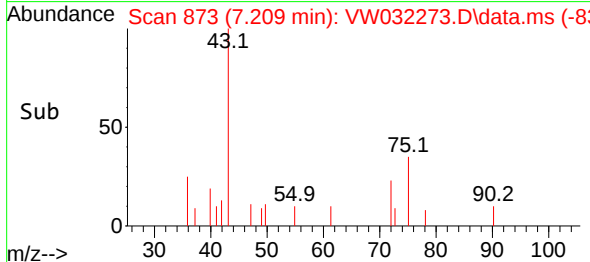
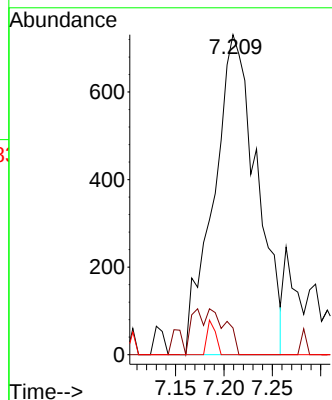
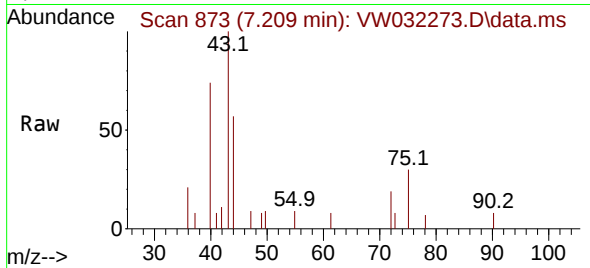




#37
Ethyl Acetate
Concen: 3.385 ug/l
RT: 7.209 min Scan# 81
Delta R.T. -0.067 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

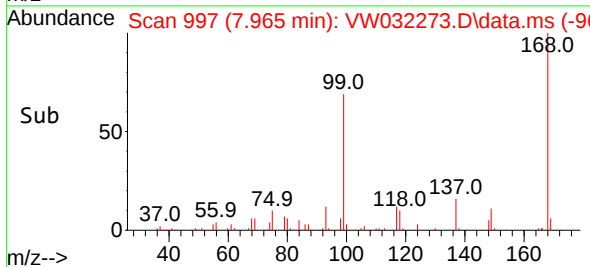
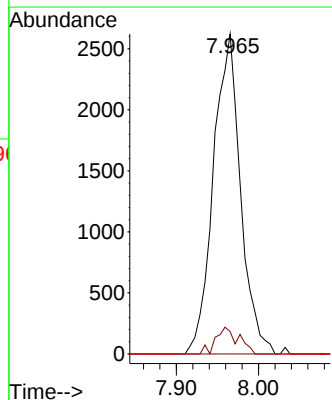
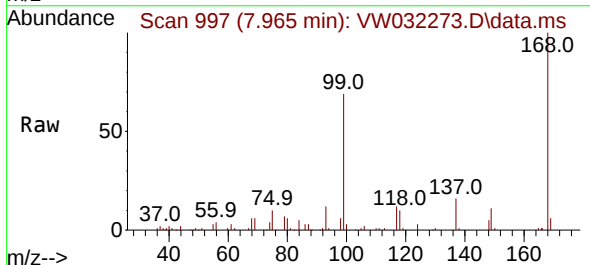
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0010-Oily Soil-SludgeRE

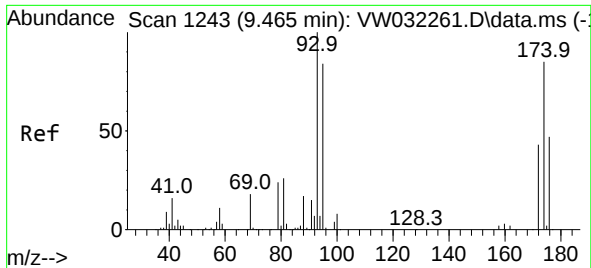
Tgt Ion: 43 Resp: 2273
Ion Ratio Lower Upper
43 100
61 0.0 10.5 15.7#
70 0.0 8.5 12.7#



#38
Carbon Tetrachloride
Concen: 6.328 ug/l
RT: 7.965 min Scan# 997
Delta R.T. -0.122 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

Tgt Ion: 117 Resp: 6027
Ion Ratio Lower Upper
117 100
119 7.0 73.9 110.9#
121 0.0 23.0 34.6#

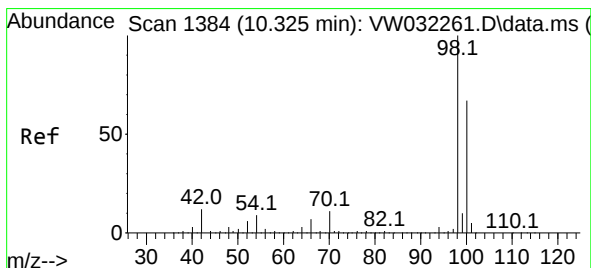
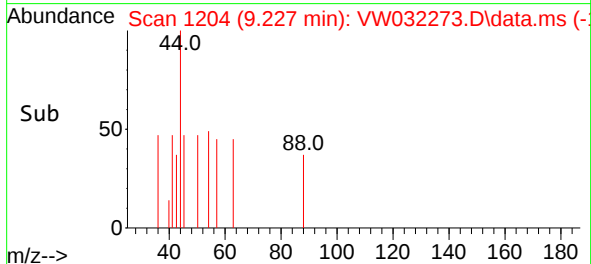
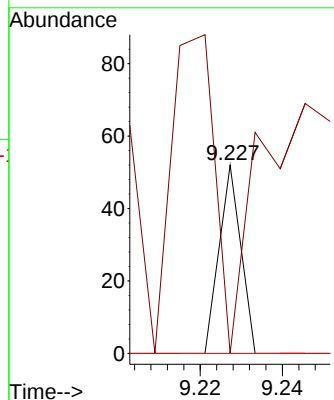
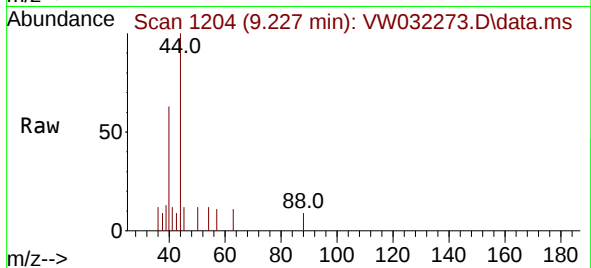




#49
 1,4-Dioxane
 Concen: 2.796 ug/l
 RT: 9.227 min Scan# 11
 Delta R.T. -0.238 min
 Lab File: VW032273.D
 Acq: 26 Sep 2025 12:33

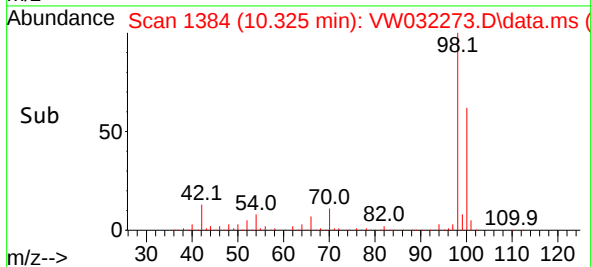
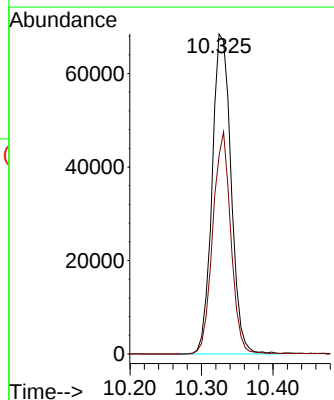
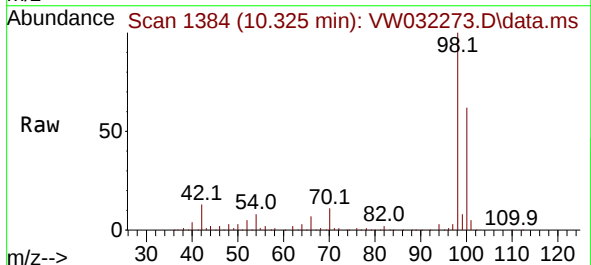
Instrument :
 MSVOA_W
 ClientSampleId :
 ARS20-0010-Oily Soil-SludgeRE

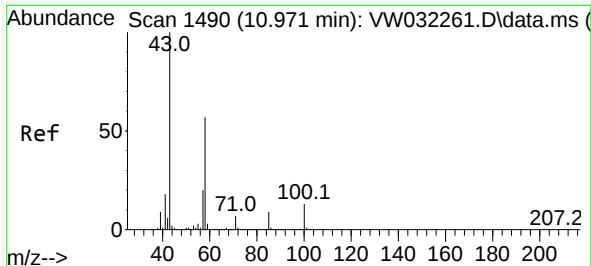
Tgt Ion: 88 Resp: 19
 Ion Ratio Lower Upper
 88 100
 43 331.6 0.0 0.0#
 58 0.0 62.9 94.3#



#50
 Toluene-d8
 Concen: 46.649 ug/l
 RT: 10.325 min Scan# 1384
 Delta R.T. 0.000 min
 Lab File: VW032273.D
 Acq: 26 Sep 2025 12:33

Tgt Ion: 98 Resp: 126241
 Ion Ratio Lower Upper
 98 100
 100 65.8 53.0 79.4

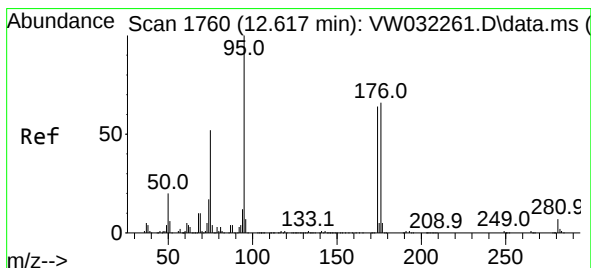
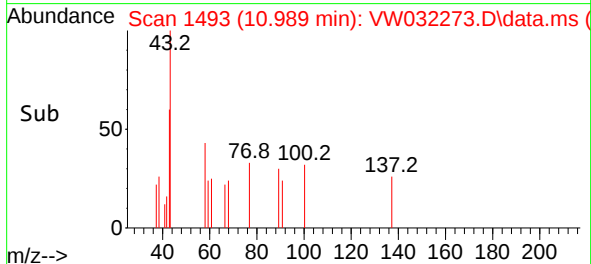
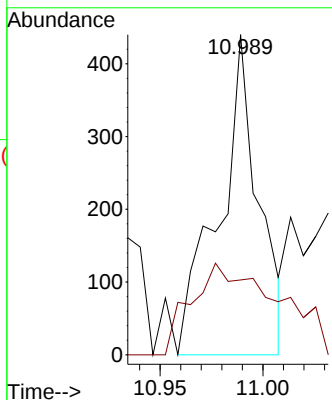
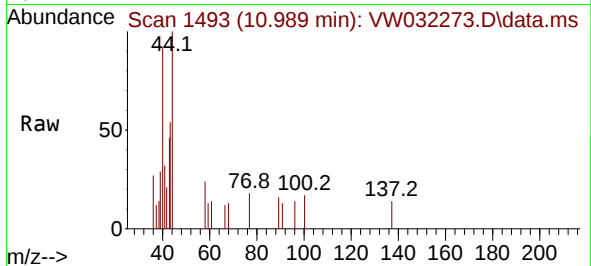




#59
2-Hexanone
Concen: 1.212 ug/l
RT: 10.989 min Scan# 1490
Delta R.T. 0.018 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

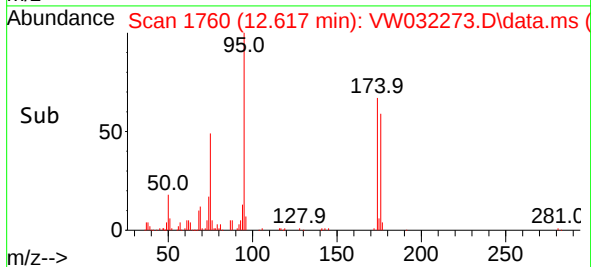
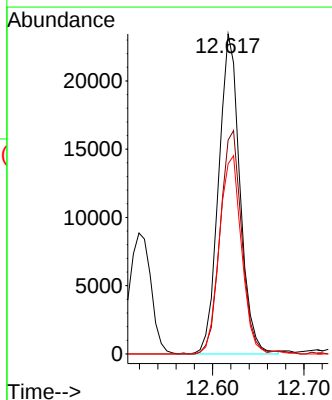
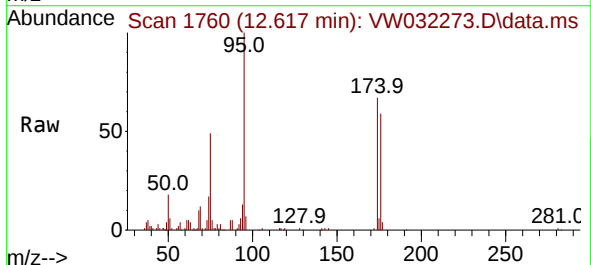
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0010-Oily Soil-SludgeRE

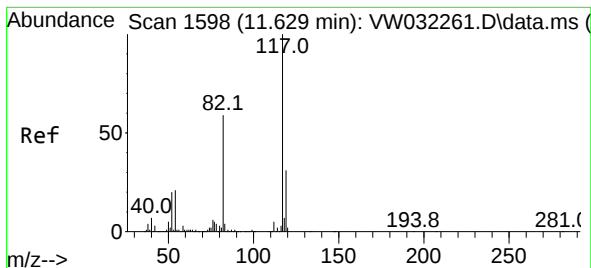
Tgt Ion: 43 Resp: 590
Ion Ratio Lower Upper
43 100
58 62.5 27.9 83.6



#62
4-Bromofluorobenzene
Concen: 37.279 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.000 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

Tgt Ion: 95 Resp: 38054
Ion Ratio Lower Upper
95 100
174 71.1 0.0 130.6
176 65.0 0.0 127.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.635 min Scan# 11

Delta R.T. 0.006 min

Lab File: VW032273.D

Acq: 26 Sep 2025 12:33

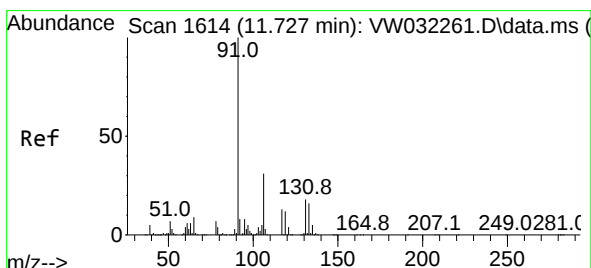
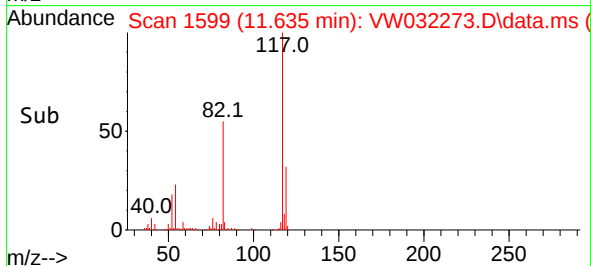
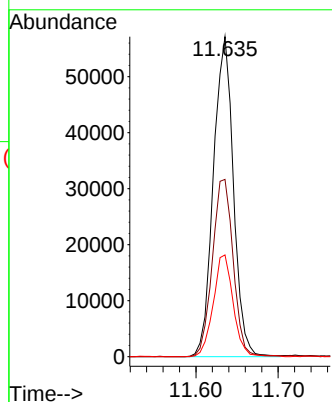
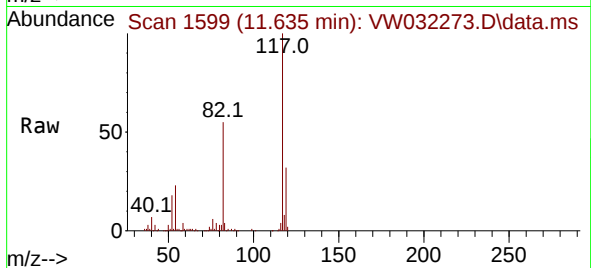
Instrument :

MSVOA_W

ClientSampleId :

ARS20-0010-Oily Soil-SludgeRE

Tgt Ion:117	Resp:	96866
Ion Ratio	Lower	Upper
117	100	
82	55.4	46.9 70.3
119	31.8	24.9 37.3



#67

Ethyl Benzene

Concen: 1.136 ug/l

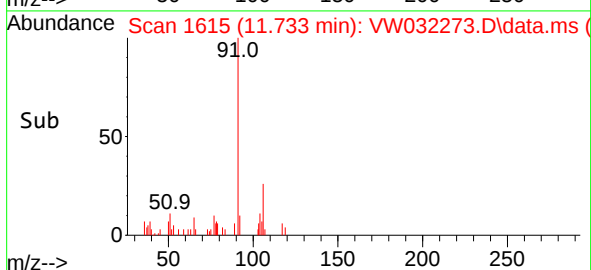
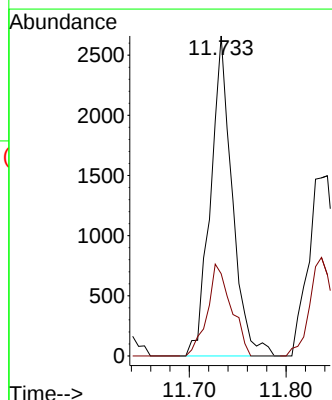
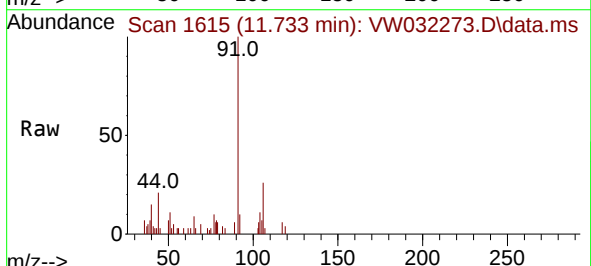
RT: 11.733 min Scan# 1615

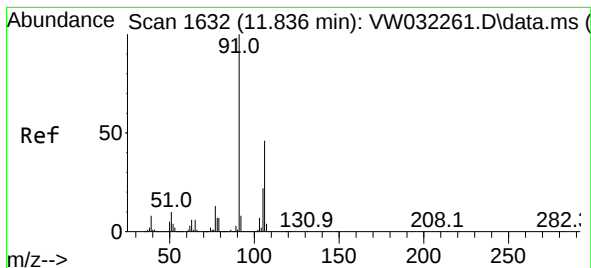
Delta R.T. 0.006 min

Lab File: VW032273.D

Acq: 26 Sep 2025 12:33

Tgt Ion: 91	Resp:	4149
Ion Ratio	Lower	Upper
91	100	
106	25.7	24.7 37.1

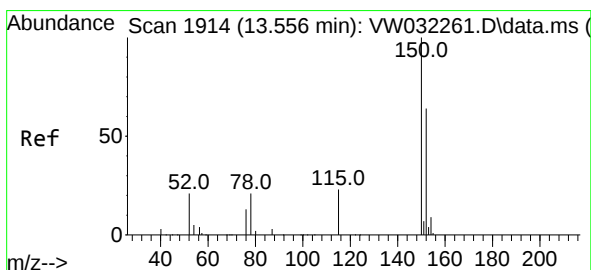
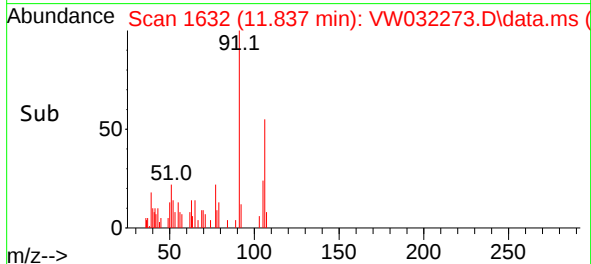
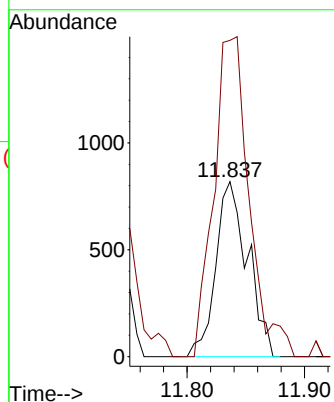
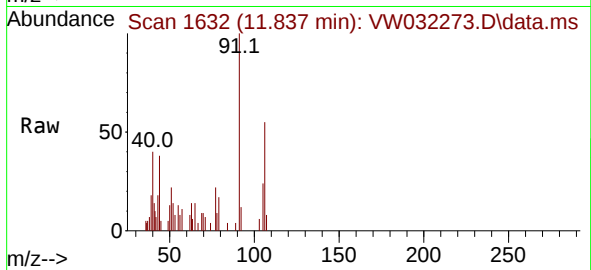




#68
m/p-Xylenes
Concen: 1.103 ug/l
RT: 11.837 min Scan# 11
Delta R.T. 0.000 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

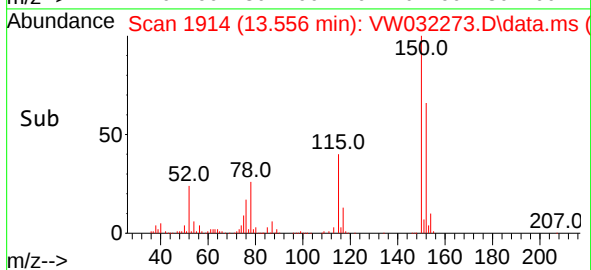
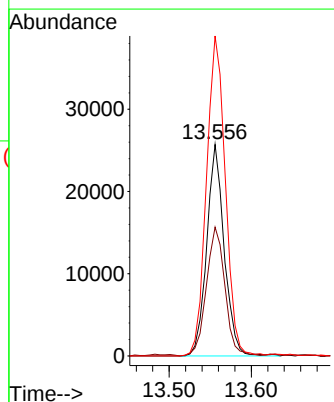
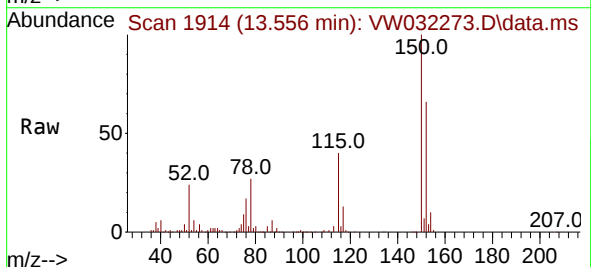
Instrument :
MSVOA_W
ClientSampleId :
ARS20-0010-Oily Soil-SludgeRE

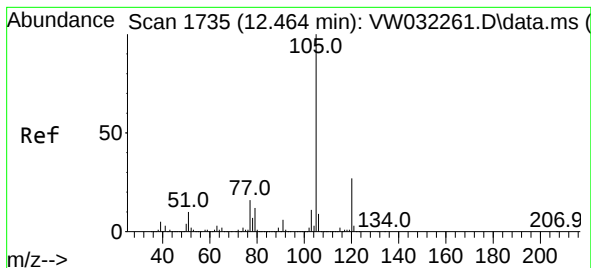
Tgt Ion:106 Resp: 1544
Ion Ratio Lower Upper
106 100
91 203.2 169.0 253.4



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.556 min Scan# 1914
Delta R.T. 0.000 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

Tgt Ion:152 Resp: 38109
Ion Ratio Lower Upper
152 100
115 64.4 32.5 97.5
150 162.6 0.0 370.2





#73

Isopropylbenzene

Concen: 1.412 ug/l

RT: 12.464 min Scan# 1

Delta R.T. 0.000 min

Lab File: VW032273.D

Acq: 26 Sep 2025 12:33

Instrument :

MSVOA_W

ClientSampleId :

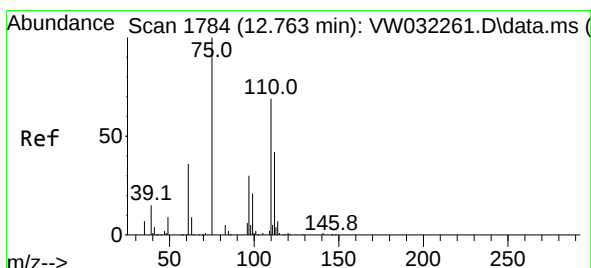
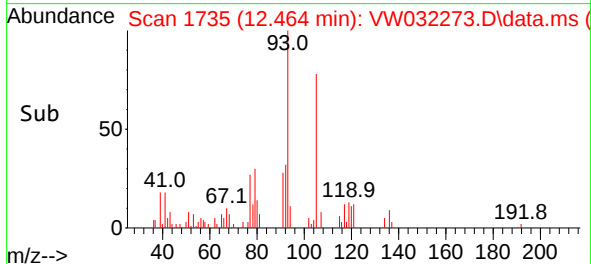
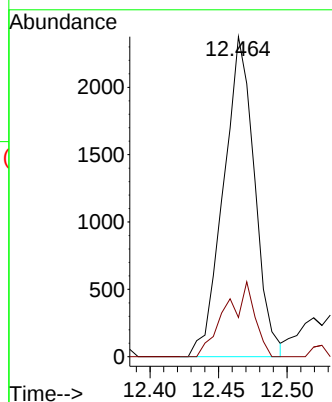
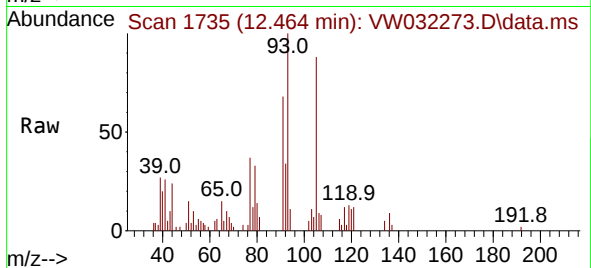
ARS20-0010-Oily Soil-SludgeRE

Tgt Ion:105 Resp: 3744

Ion Ratio Lower Upper

105 100

120 22.1 13.1 39.3



#76

1,2,3-Trichloropropane

Concen: 37.351 ug/l

RT: 12.617 min Scan# 1760

Delta R.T. -0.146 min

Lab File: VW032273.D

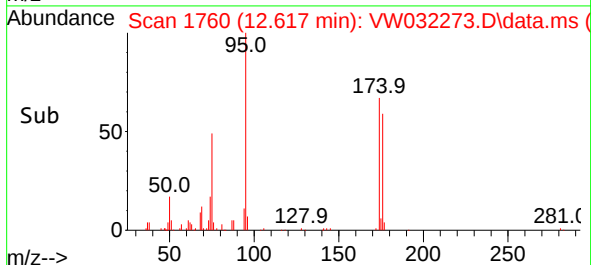
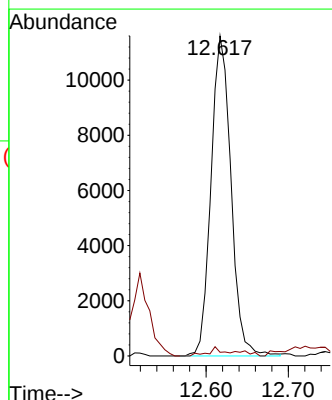
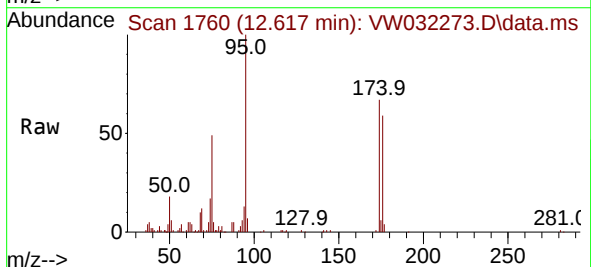
Acq: 26 Sep 2025 12:33

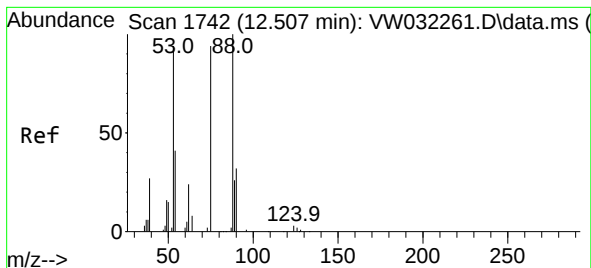
Tgt Ion: 75 Resp: 19583

Ion Ratio Lower Upper

75 100

77 2.0 140.9 422.7#

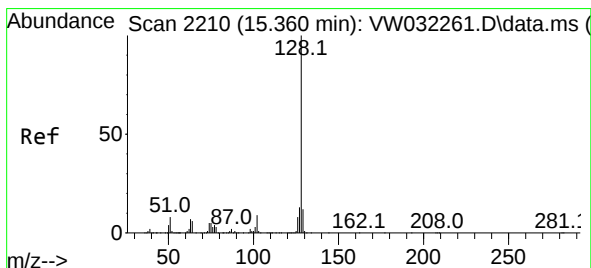
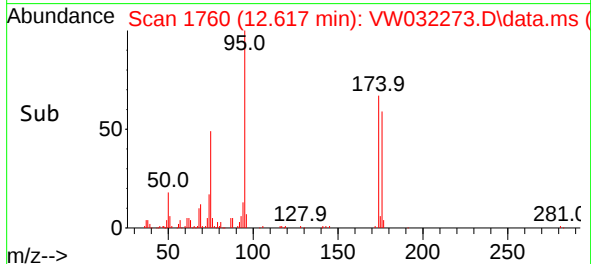
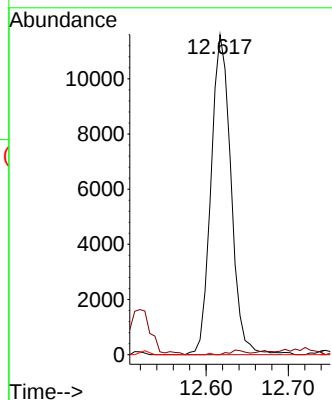
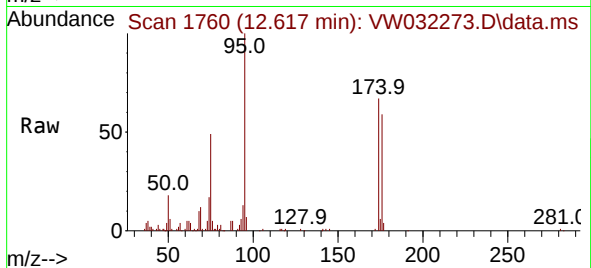




#81
trans-1,4-Dichloro-2-butene
Concen: 97.018 ug/l
RT: 12.617 min Scan# 1760
Delta R.T. 0.110 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

Instrument :
MSVOA_W
ClientSampleId :
ARS20-0010-Oily Soil-SludgeRE

Tgt Ion: 75 Resp: 19583
Ion Ratio Lower Upper
75 100
53 0.0 81.4 122.2#
89 0.1 35.4 53.2#



#95
Naphthalene
Concen: 2.882 ug/l
RT: 15.360 min Scan# 2210
Delta R.T. 0.000 min
Lab File: VW032273.D
Acq: 26 Sep 2025 12:33

Tgt Ion: 128 Resp: 4953
Ion Ratio Lower Upper
128 100
127 17.3 10.6 15.8#
129 14.0 9.0 13.4#

