

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD072022\
 Data File : VD073886.D
 Acq On : 20 Jul 2022 18:36
 Operator : VA/SY
 Sample : N3763-01
 Misc : 5.02G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 16 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 TRE-1279-SLUDGE

Quant Time: Jul 21 01:11:35 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D071822S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 20 15:29:08 2022
 Response via : Initial Calibration

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

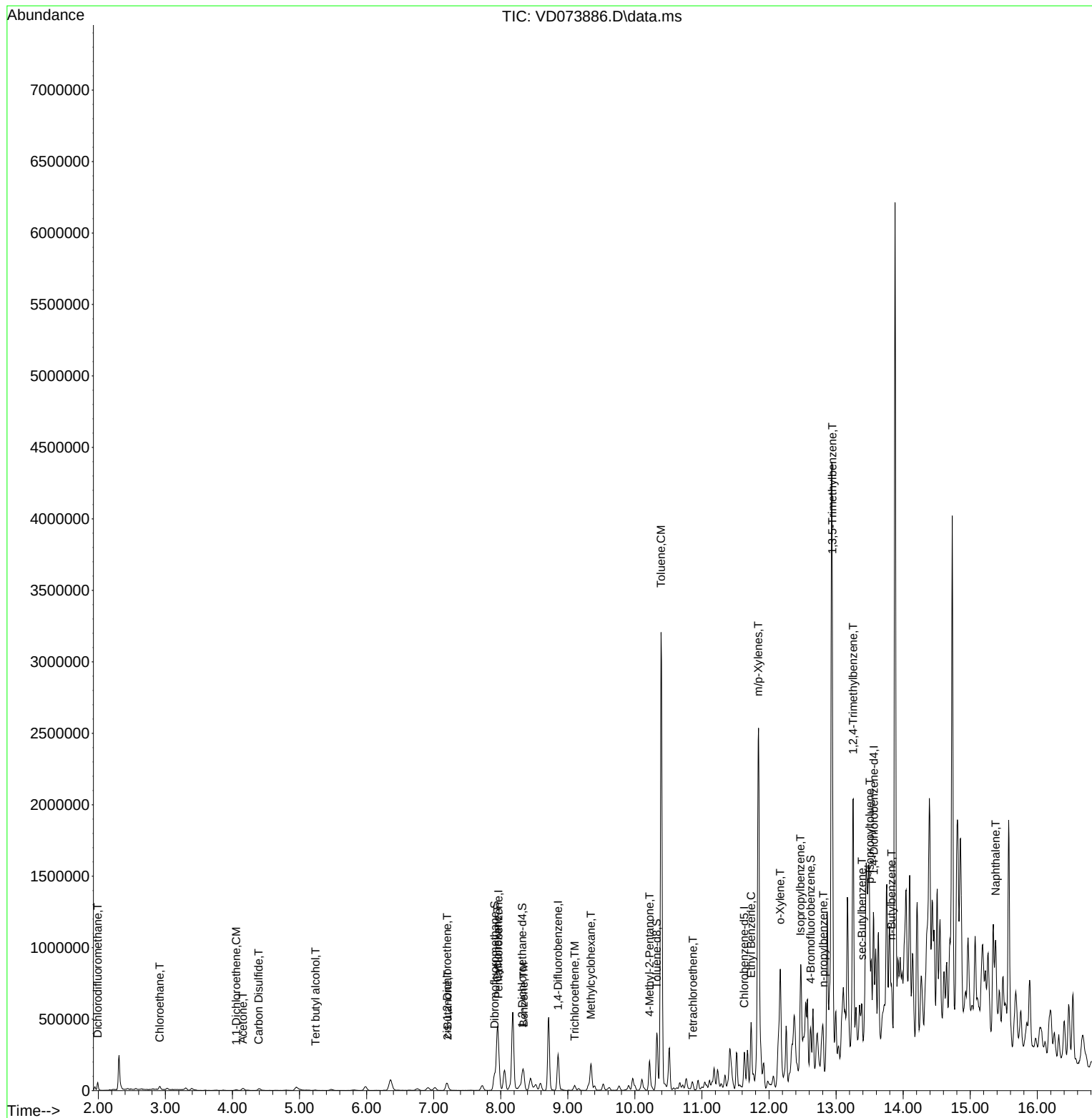
Internal Standards						
1) Pentafluorobenzene	7.967	168	98098	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.855	114	204294	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.632	117	141426	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	34843	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.320	65	70714	60.367	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	= 120.740%	
35) Dibromofluoromethane	7.908	113	73919	51.288	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	= 102.580%	
50) Toluene-d8	10.326	98	211428	40.410	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	= 80.820%	
62) 4-Bromofluorobenzene	12.620	95	60268	33.503	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	= 67.000%	
Target Compounds						Qvalue
2) Dichlorodifluoromethane	1.991	85	37222	41.206	ug/l	99
6) Chloroethane	2.915	64	19325	12.681	ug/l	93
11) Tert butyl alcohol	5.238	59	4502	39.609	ug/l	98
12) 1,1-Dichloroethene	4.056	96	2811	2.820	ug/l	98
16) Acetone	4.156	43	26049	135.520	ug/l	90
17) Carbon Disulfide	4.391	76	25758	8.086	ug/l	96
25) 2-Butanone	7.209	43	16241	59.530	ug/l	91
27) cis-1,2-Dichloroethene	7.203	96	3196	2.409	ug/l	93
31) Cyclohexane	7.950	56	83354	44.783	ug/l #	55
39) Methylcyclohexane	9.344	83	72226	29.801	ug/l	95
40) Benzene	8.344	78	96123	16.992	ug/l	99
44) Trichloroethene	9.103	130	8691	5.505	ug/l	99
51) 4-Methyl-2-Pentanone	10.220	43	126195	168.952	ug/l	96
52) Toluene	10.391	92	1368472	359.446	ug/l	97
64) Tetrachloroethene	10.867	164	5732	6.077	ug/l	87
67) Ethyl Benzene	11.732	91	292696	54.425	ug/l	95
68) m/p-Xylenes	11.838	106	510608	242.910	ug/l	97
69) o-Xylene	12.167	106	187981	95.518	ug/l	95
73) Isopropylbenzene	12.467	105	89939	34.080	ug/l	90
78) n-propylbenzene	12.808	91	231146	71.798	ug/l	97
80) 1,3,5-Trimethylbenzene	12.944	105	295738	132.943	ug/l	96
84) 1,2,4-Trimethylbenzene	13.255	105	1021786	461.149	ug/l	98
85) sec-Butylbenzene	13.385	105	122324	42.651	ug/l	83
86) p-Isopropyltoluene	13.502	119	277201	114.783	ug/l	96
89) n-Butylbenzene	13.826	91	250327	109.174	ug/l #	73
95) Naphthalene	15.379	128	524058	450.061	ug/l	96

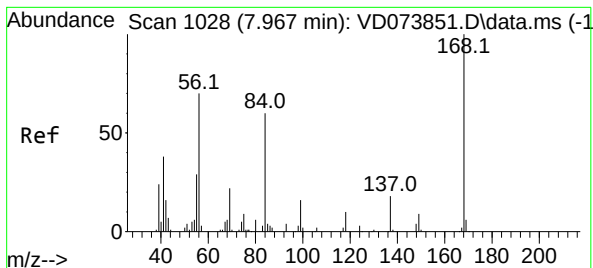
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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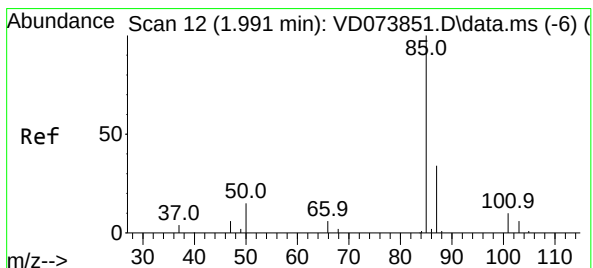
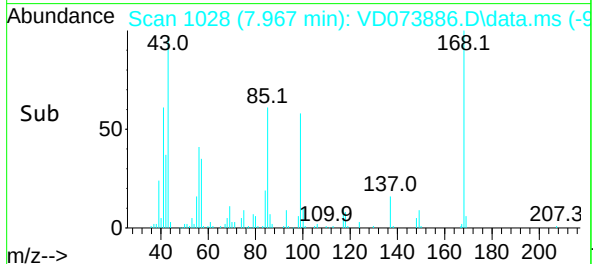
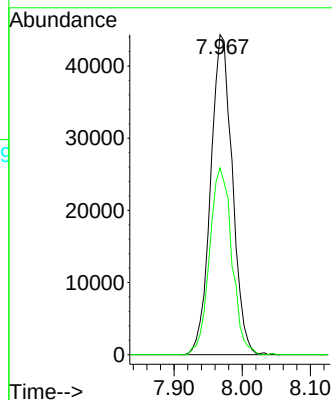
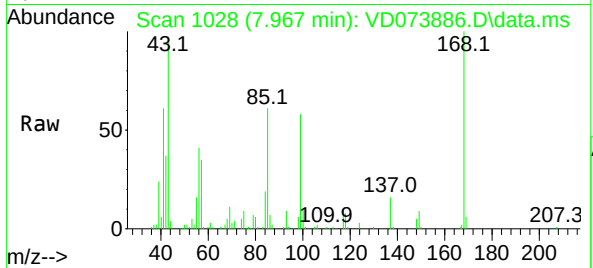




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.967 min Scan# 1028
Delta R.T. 0.000 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

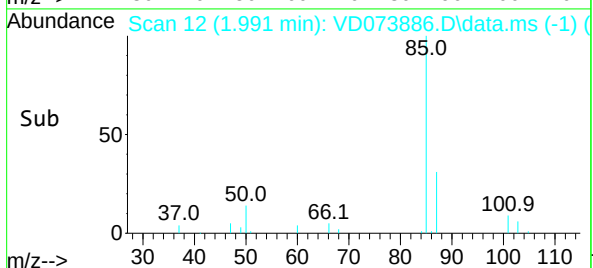
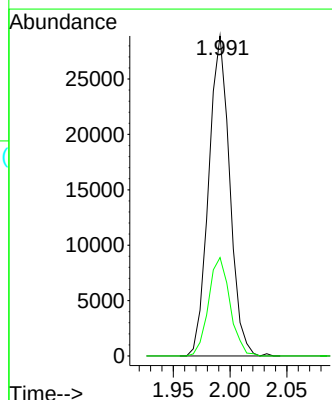
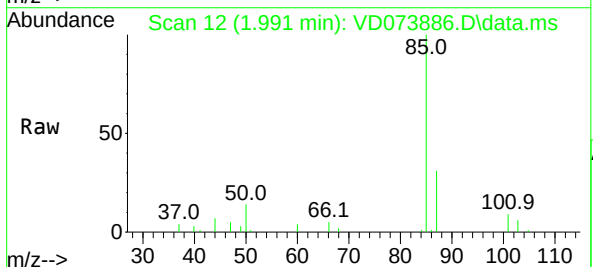
Instrument :
MSVOA_D
ClientSampleId :
TRE-1279-SLUDGE

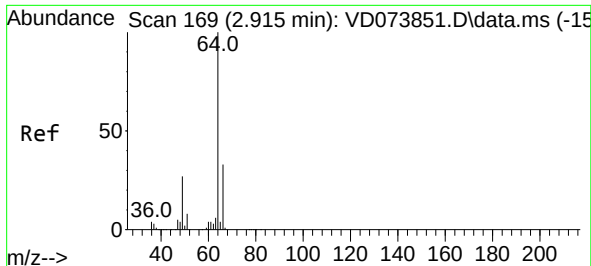
Tgt Ion:168 Resp: 98098
Ion Ratio Lower Upper
168 100
99 58.4 49.8 74.6



#2
Dichlorodifluoromethane
Concen: 41.206 ug/l
RT: 1.991 min Scan# 12
Delta R.T. 0.000 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

Tgt Ion: 85 Resp: 37222
Ion Ratio Lower Upper
85 100
87 30.7 15.7 47.0

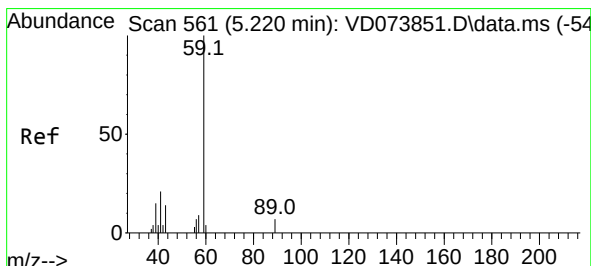
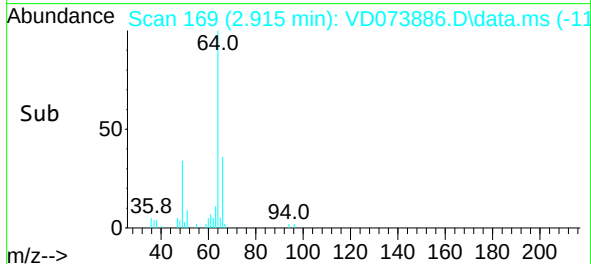
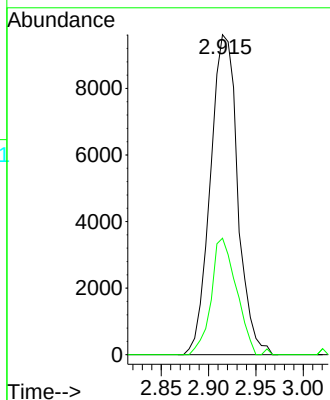
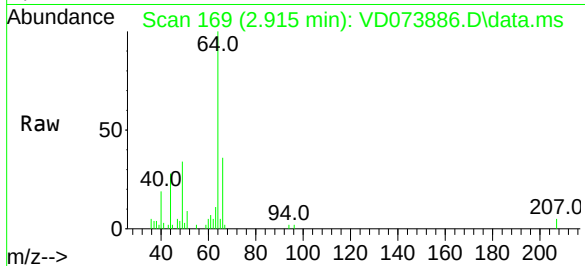




#6
Chloroethane
Concen: 12.681 ug/l
RT: 2.915 min Scan# 11
Delta R.T. -0.000 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

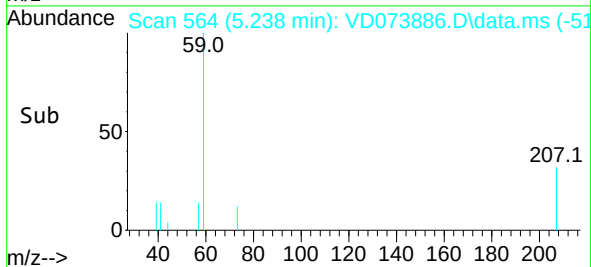
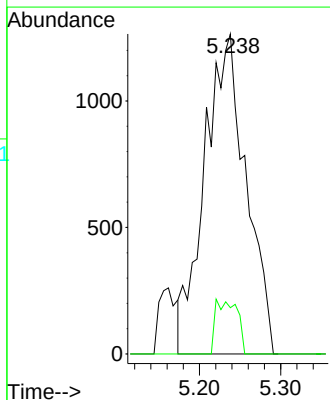
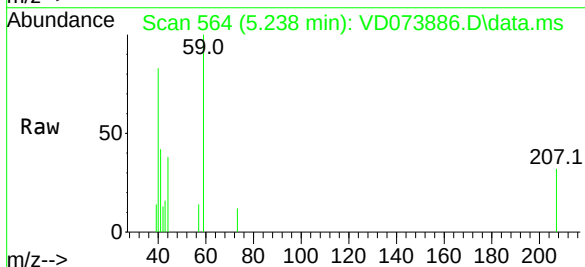
Instrument :
MSVOA_D
ClientSampleId :
TRE-1279-SLUDGE

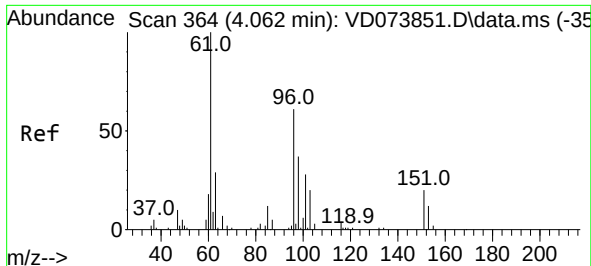
Tgt Ion: 64 Resp: 19325
Ion Ratio Lower Upper
64 100
66 36.4 25.9 38.9



#11
Tert butyl alcohol
Concen: 39.609 ug/l
RT: 5.238 min Scan# 564
Delta R.T. 0.018 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

Tgt Ion: 59 Resp: 4502
Ion Ratio Lower Upper
59 100
57 8.9 7.8 11.6

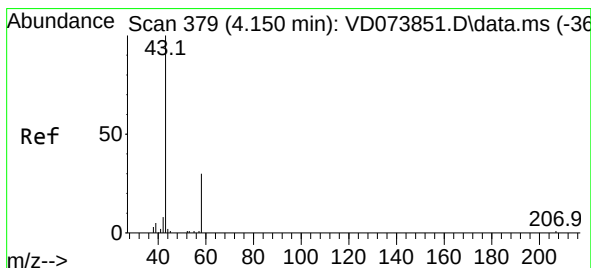
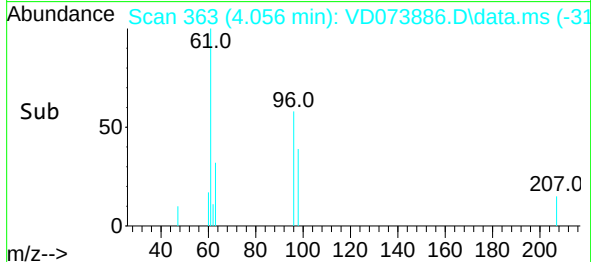
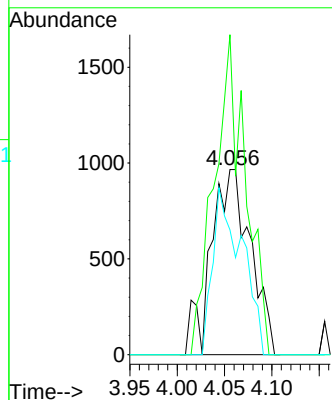
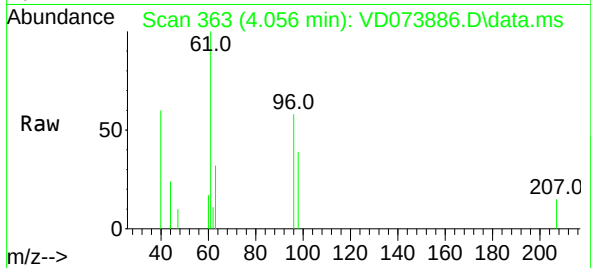




#12
1,1-Dichloroethene
Concen: 2.820 ug/l
RT: 4.056 min Scan# 30
Delta R.T. -0.006 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

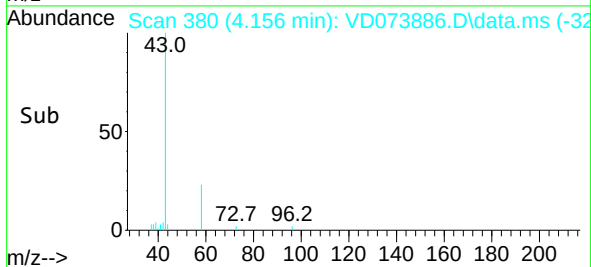
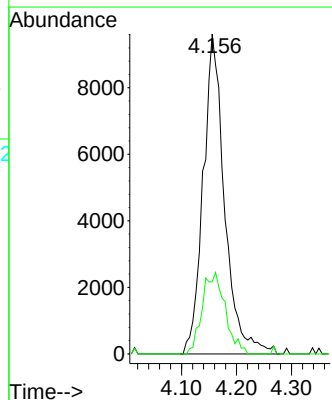
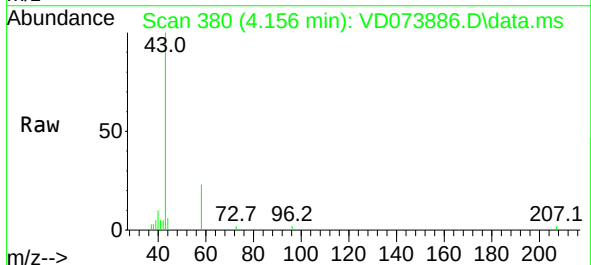
Instrument :
MSVOA_D
ClientSampleId :
TRE-1279-SLUDGE

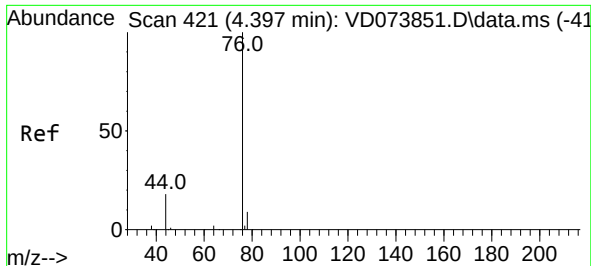
Tgt Ion: 96 Resp: 2811
Ion Ratio Lower Upper
96 100
61 172.9 138.5 207.7
98 67.4 48.6 73.0



#16
Acetone
Concen: 135.520 ug/l
RT: 4.156 min Scan# 380
Delta R.T. 0.006 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

Tgt Ion: 43 Resp: 26049
Ion Ratio Lower Upper
43 100
58 22.5 22.1 33.1

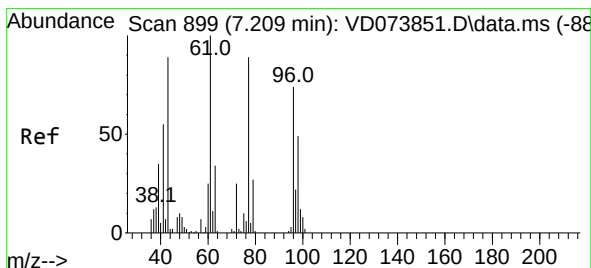
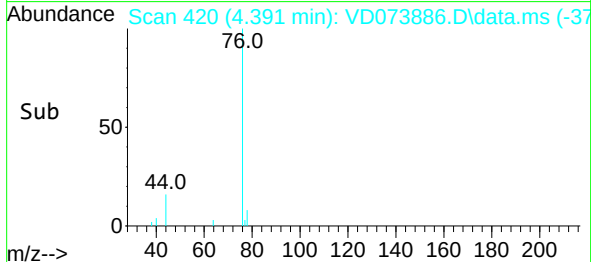
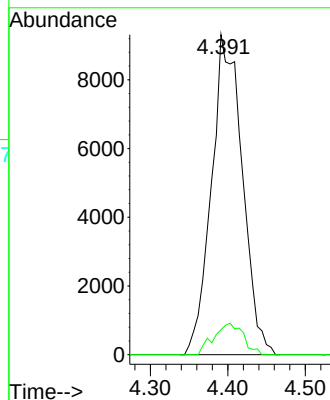
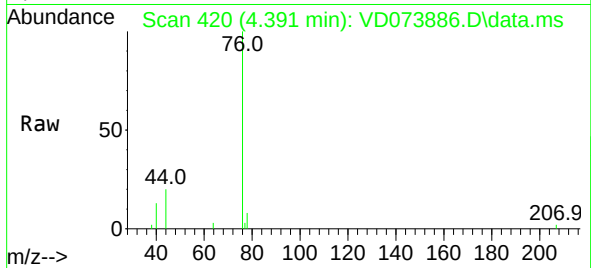




#17
Carbon Disulfide
Concen: 8.086 ug/l
RT: 4.391 min Scan# 41
Delta R.T. -0.006 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

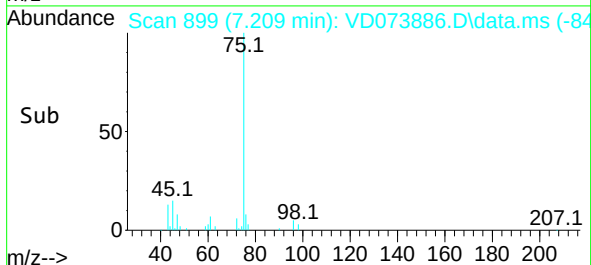
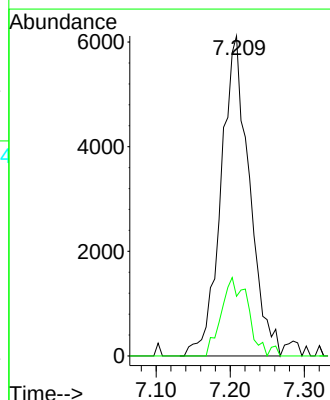
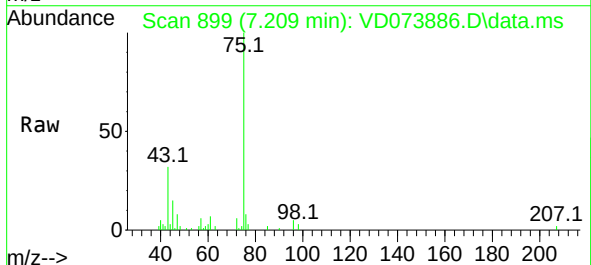
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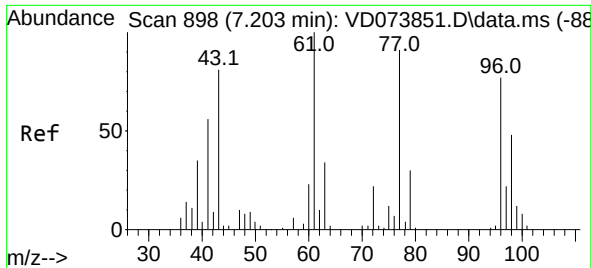
Tgt Ion: 76 Resp: 25758
Ion Ratio Lower Upper
76 100
78 7.8 7.5 11.3



#25
2-Butanone
Concen: 59.530 ug/l
RT: 7.209 min Scan# 899
Delta R.T. -0.000 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

Tgt Ion: 43 Resp: 16241
Ion Ratio Lower Upper
43 100
72 18.6 18.6 27.8

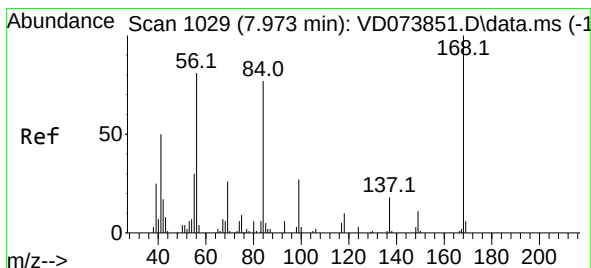
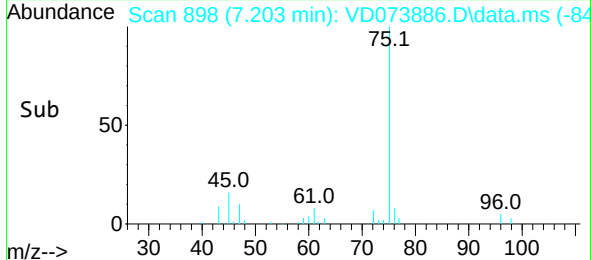
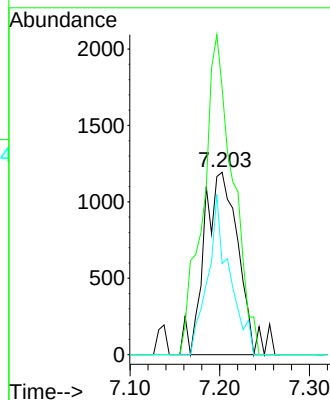
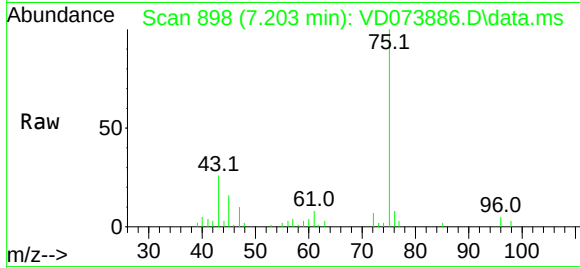




#27
 cis-1,2-Dichloroethene
 Concen: 2.409 ug/l
 RT: 7.203 min Scan# 898
 Delta R.T. -0.000 min
 Lab File: VD073886.D
 Acq: 20 Jul 2022 18:36

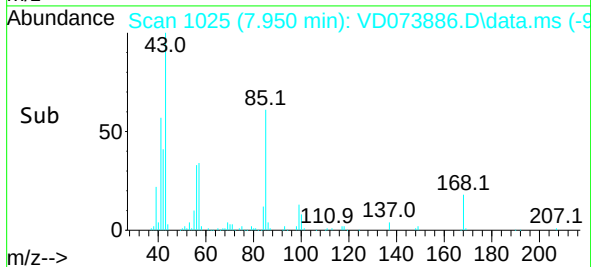
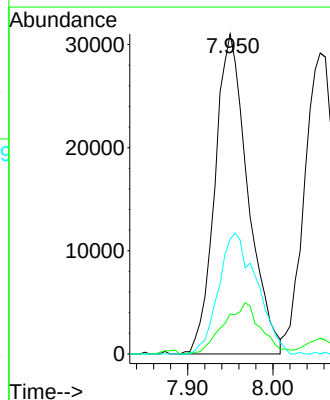
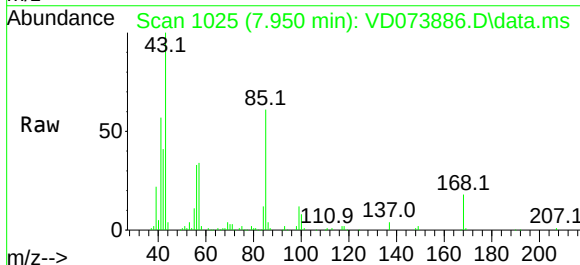
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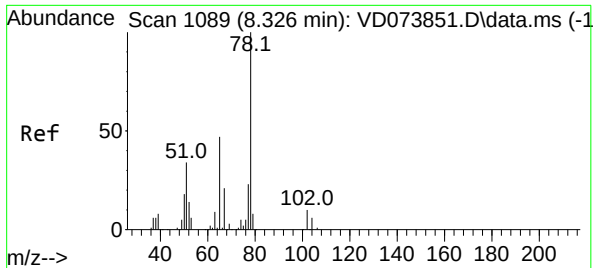
Tgt Ion: 96	Resp:	3196	
Ion	Ratio	Lower	Upper
96	100		
61	151.3	0.0	313.8
98	54.9	0.0	128.8



#31
 Cyclohexane
 Concen: 44.783 ug/l
 RT: 7.950 min Scan# 1025
 Delta R.T. -0.024 min
 Lab File: VD073886.D
 Acq: 20 Jul 2022 18:36

Tgt Ion: 56	Resp:	83354	
Ion Ratio	Lower	Upper	
56 100			
69 12.5	25.4	38.2#	
84 35.9	63.0	94.4#	





#33

1,2-Dichloroethane-d4

Concen: 60.367 ug/l

RT: 8.320 min Scan# 1089

Delta R.T. -0.006 min

Lab File: VD073886.D

Acq: 20 Jul 2022 18:36

Instrument :

MSVOA_D

ClientSampleId :

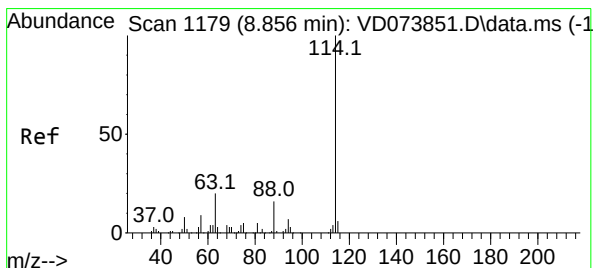
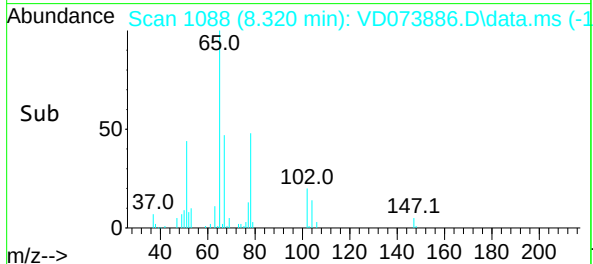
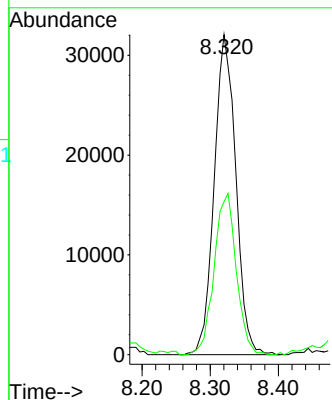
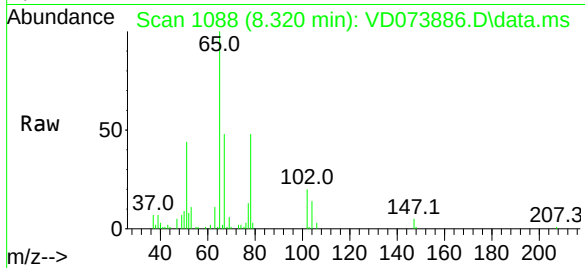
TRE-1279-SLUDGE

Tgt Ion: 65 Resp: 70714

Ion Ratio Lower Upper

65 100

67 51.7 0.0 101.4



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.855 min Scan# 1179

Delta R.T. -0.000 min

Lab File: VD073886.D

Acq: 20 Jul 2022 18:36

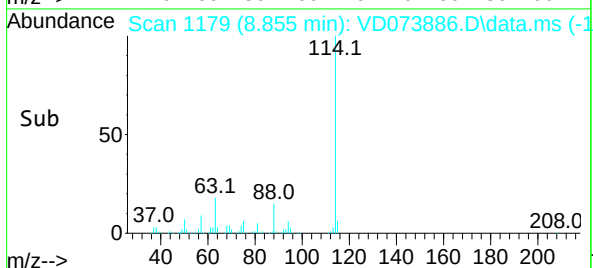
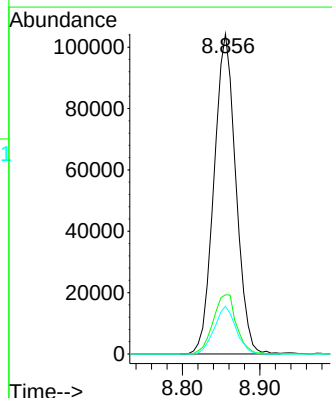
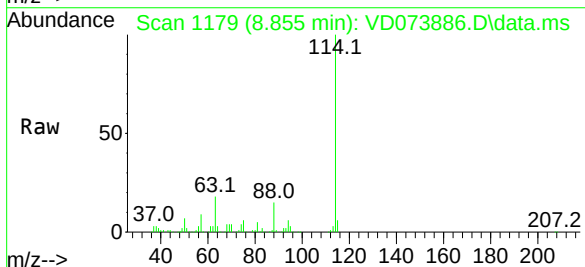
Tgt Ion: 114 Resp: 204294

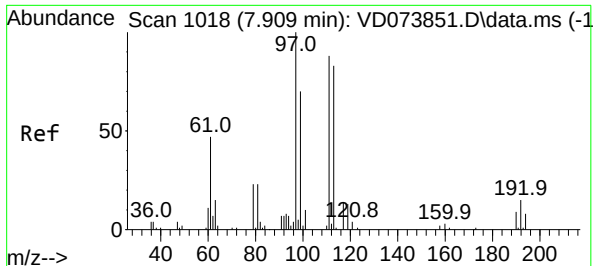
Ion Ratio Lower Upper

114 100

63 18.5 0.0 46.6

88 14.9 0.0 33.2





#35

Dibromofluoromethane

Concen: 51.288 ug/l

RT: 7.908 min Scan# 1018

Delta R.T. -0.000 min

Lab File: VD073886.D

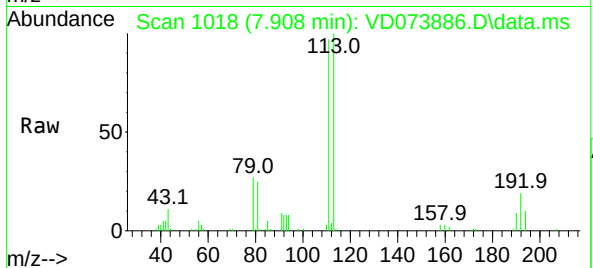
Acq: 20 Jul 2022 18:36

Instrument :

MSVOA_D

ClientSampleId :

TRE-1279-SLUDGE



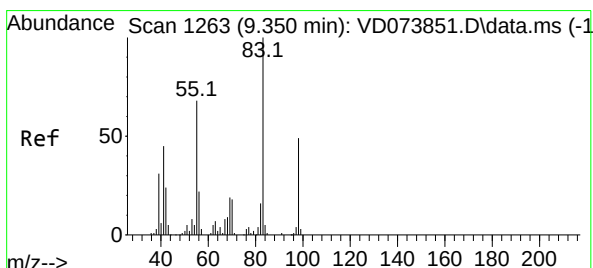
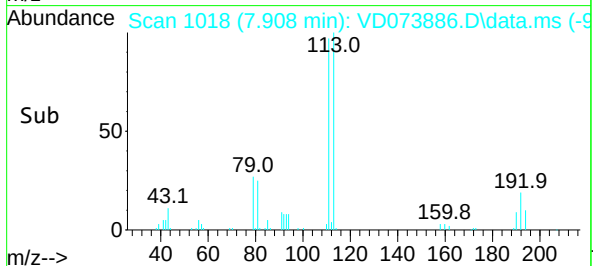
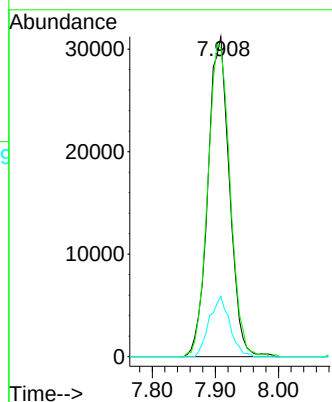
Tgt Ion:113 Resp: 73919

Ion Ratio Lower Upper

113 100

111 101.9 83.8 125.6

192 18.0 14.6 21.8



#39

Methylcyclohexane

Concen: 29.801 ug/l

RT: 9.344 min Scan# 1262

Delta R.T. -0.006 min

Lab File: VD073886.D

Acq: 20 Jul 2022 18:36

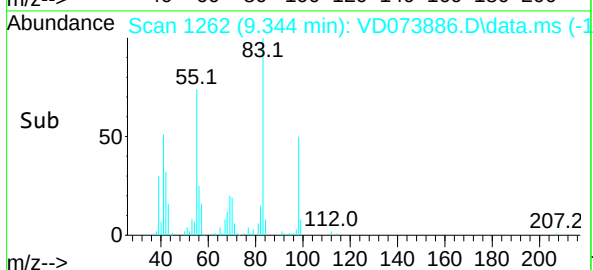
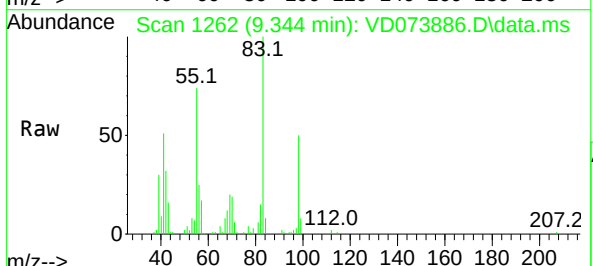
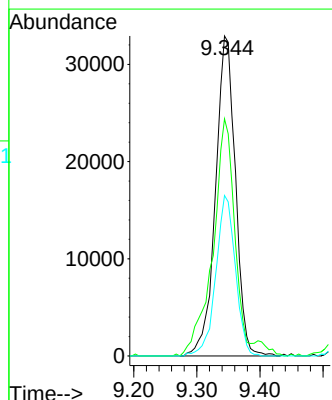
Tgt Ion: 83 Resp: 72226

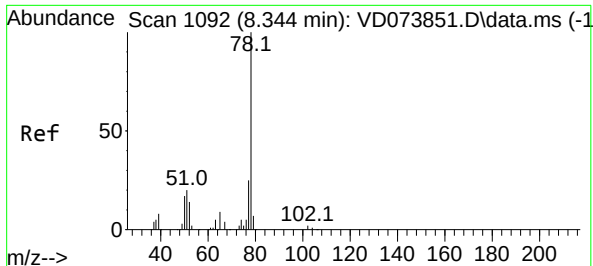
Ion Ratio Lower Upper

83 100

55 74.1 63.2 94.8

98 50.1 38.2 57.4

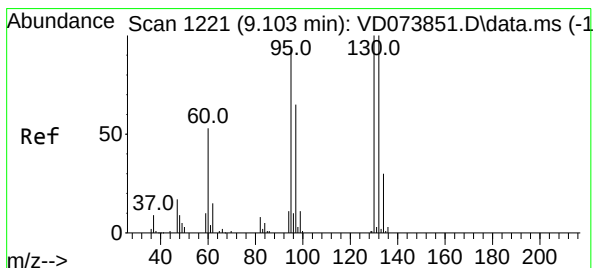
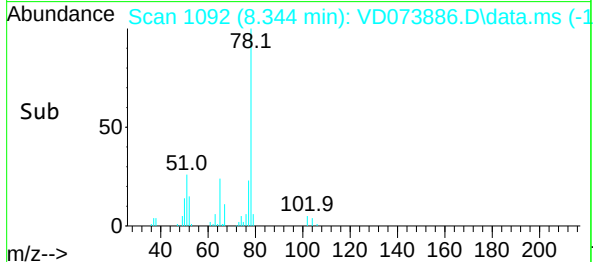
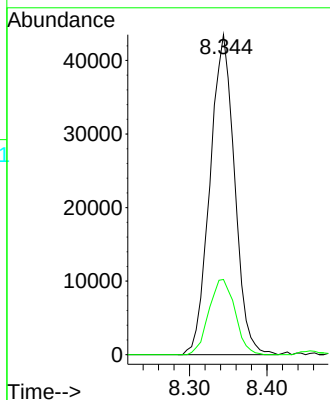
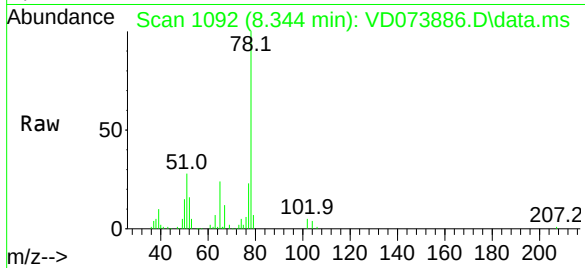




#40
Benzene
Concen: 16.992 ug/l
RT: 8.344 min Scan# 1092
Delta R.T. -0.000 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

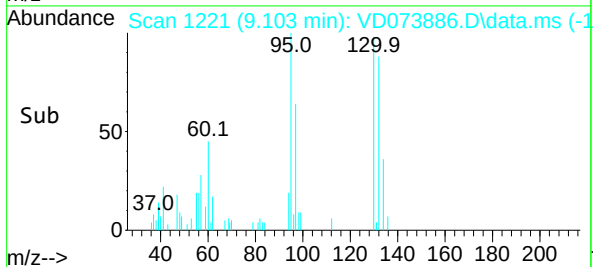
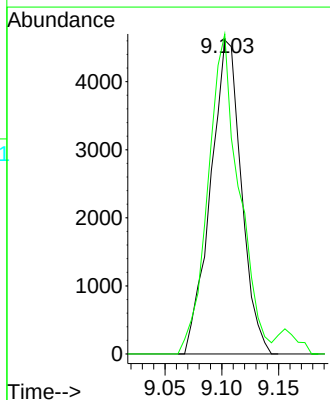
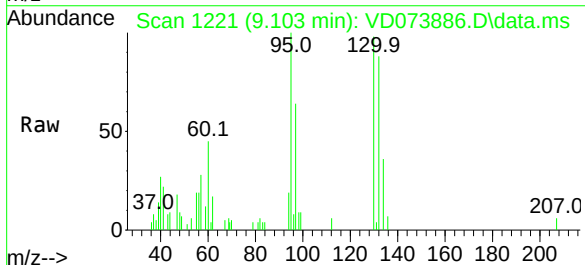
Instrument :
MSVOA_D
ClientSampleId :
TRE-1279-SLUDGE

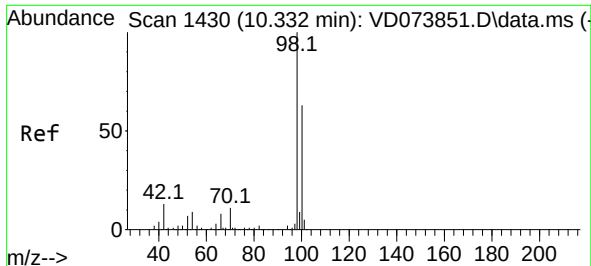
Tgt Ion: 78 Resp: 96123
Ion Ratio Lower Upper
78 100
77 23.5 19.1 28.7



#44
Trichloroethene
Concen: 5.505 ug/l
RT: 9.103 min Scan# 1221
Delta R.T. -0.000 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

Tgt Ion:130 Resp: 8691
Ion Ratio Lower Upper
130 100
95 102.0 0.0 205.4

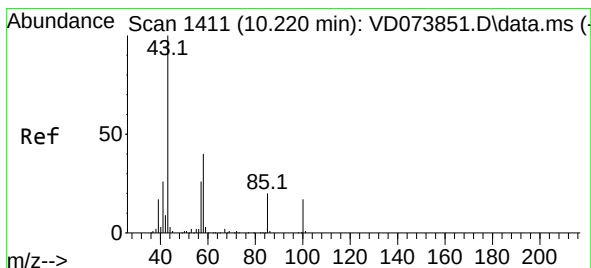
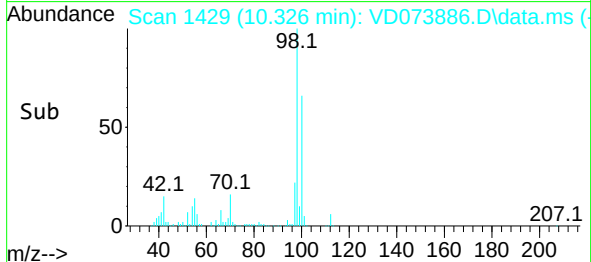
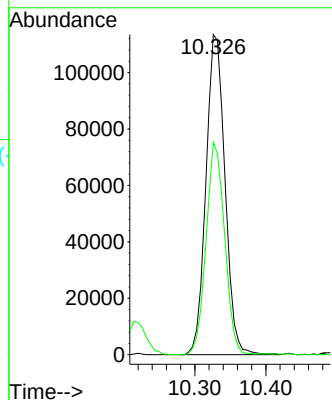
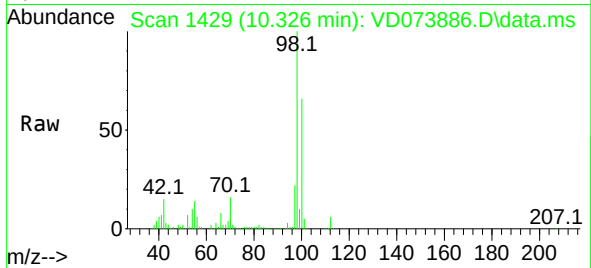




#50
Toluene-d8
Concen: 40.410 ug/l
RT: 10.326 min Scan# 1429
Delta R.T. -0.006 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

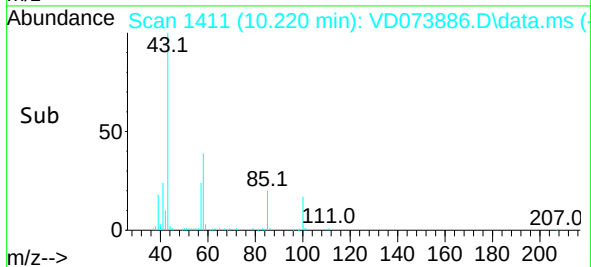
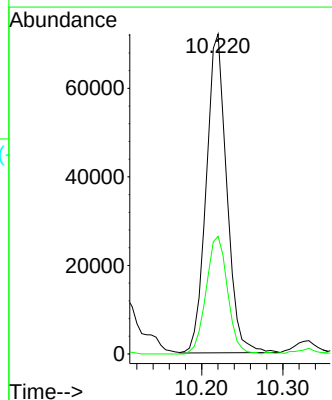
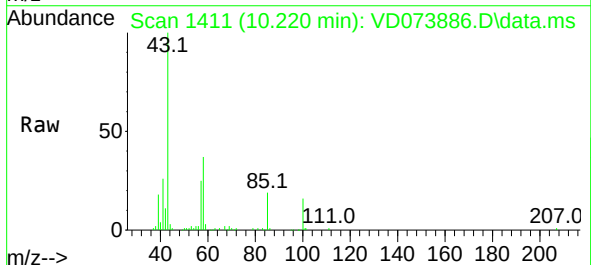
Instrument :
MSVOA_D
ClientSampleId :
TRE-1279-SLUDGE

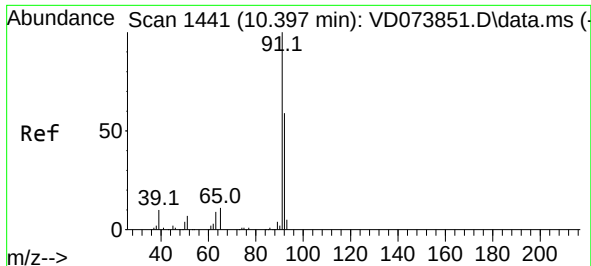
Tgt Ion: 98 Resp: 211428
Ion Ratio Lower Upper
98 100
100 64.8 52.4 78.6



#51
4-Methyl-2-Pentanone
Concen: 168.952 ug/l
RT: 10.220 min Scan# 1411
Delta R.T. -0.000 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

Tgt Ion: 43 Resp: 126195
Ion Ratio Lower Upper
43 100
58 38.4 28.6 43.0

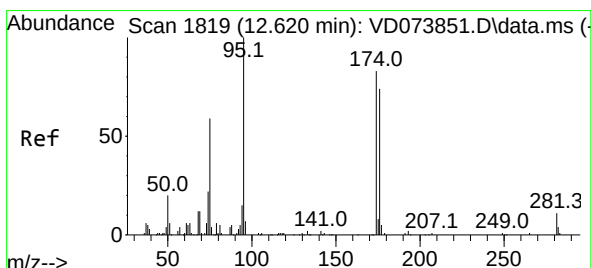
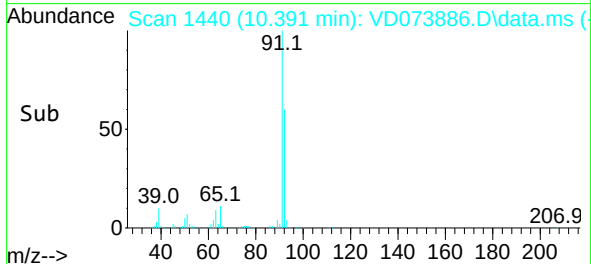
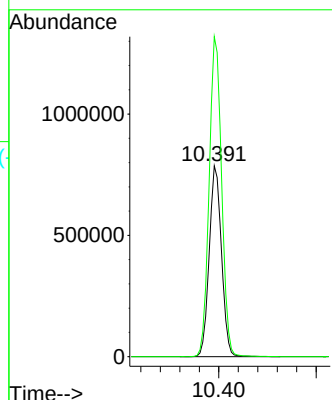
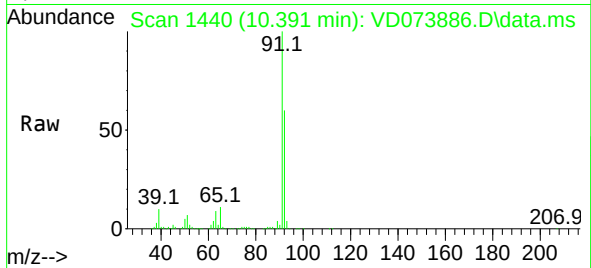




#52
Toluene
Concen: 359.446 ug/l
RT: 10.391 min Scan# 1441
Delta R.T. -0.006 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

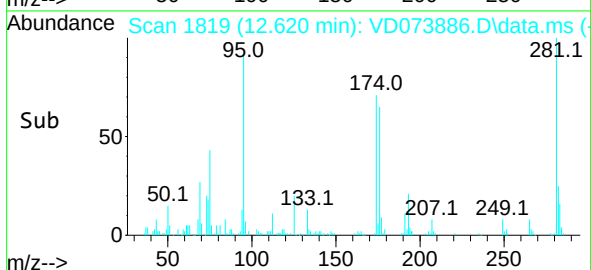
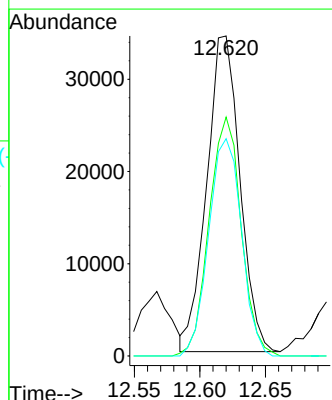
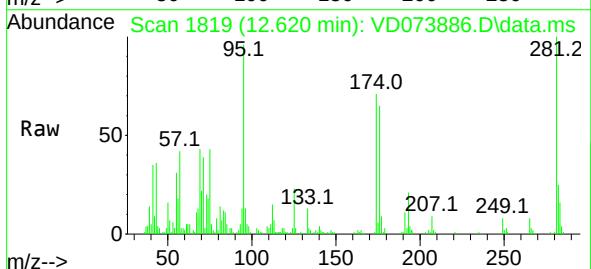
Instrument :
MSVOA_D
ClientSampleId :
TRE-1279-SLUDGE

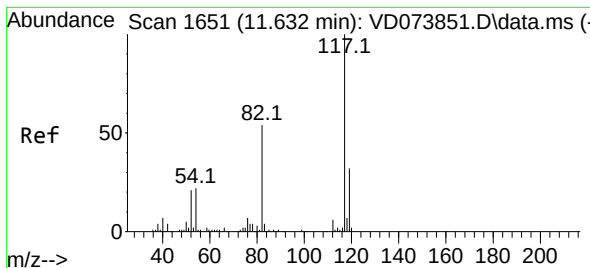
Tgt Ion: 92 Resp: 1368472
Ion Ratio Lower Upper
92 100
91 170.5 139.6 209.4



#62
4-Bromofluorobenzene
Concen: 33.503 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.000 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

Tgt Ion: 95 Resp: 60268
Ion Ratio Lower Upper
95 100
174 73.0 0.0 152.8
176 68.0 0.0 145.4





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.632 min Scan# 1

Delta R.T. -0.000 min

Lab File: VD073886.D

Acq: 20 Jul 2022 18:36

Instrument :

MSVOA_D

ClientSampleId :

TRE-1279-SLUDGE

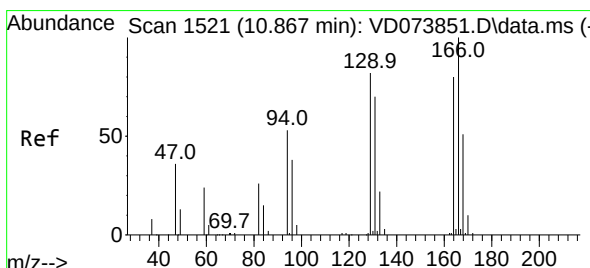
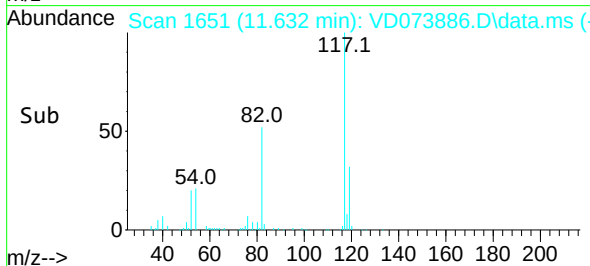
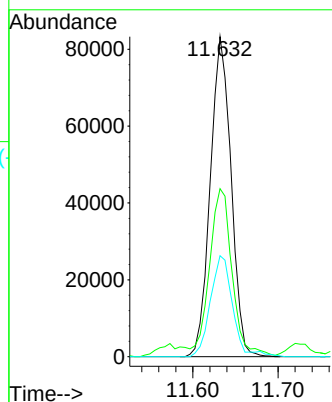
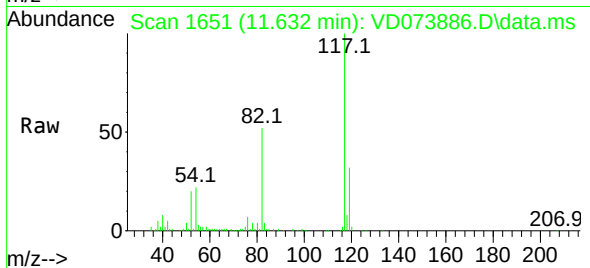
Tgt Ion:117 Resp: 141426

Ion Ratio Lower Upper

117 100

82 51.5 45.3 67.9

119 31.5 26.6 40.0



#64

Tetrachloroethene

Concen: 6.077 ug/l

RT: 10.867 min Scan# 1521

Delta R.T. -0.000 min

Lab File: VD073886.D

Acq: 20 Jul 2022 18:36

Tgt Ion:164 Resp: 5732

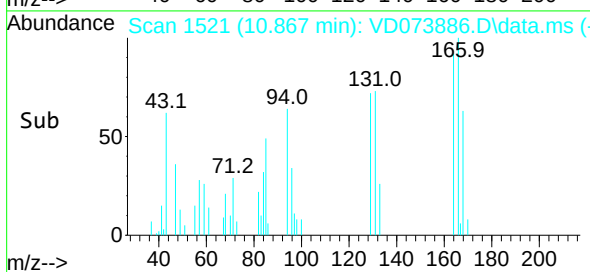
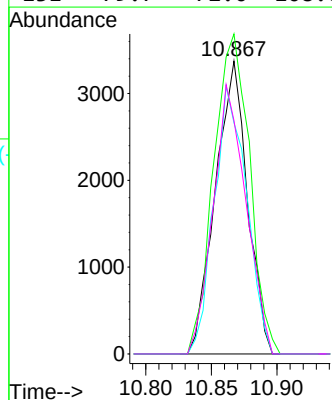
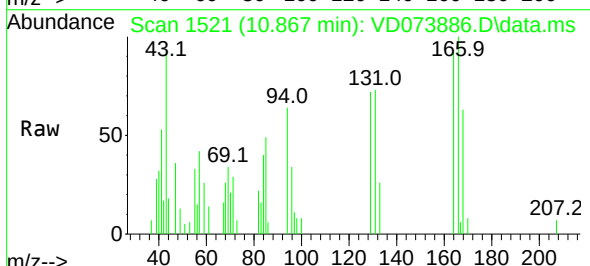
Ion Ratio Lower Upper

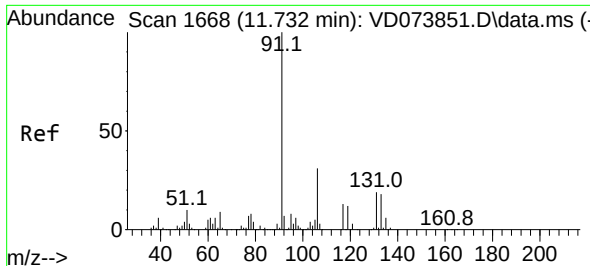
164 100

166 109.3 98.5 147.7

129 79.0 74.6 111.8

131 79.7 72.0 108.0

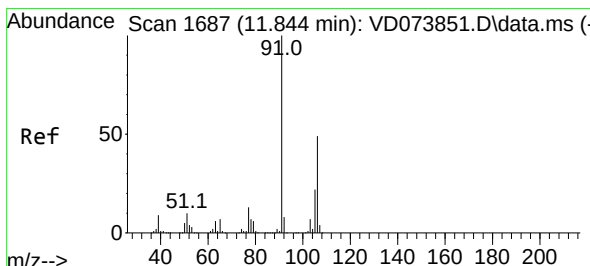
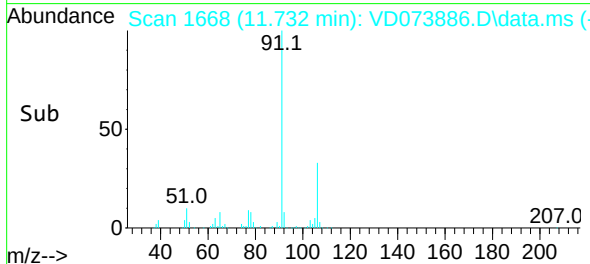
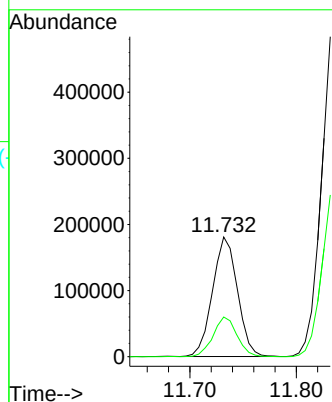
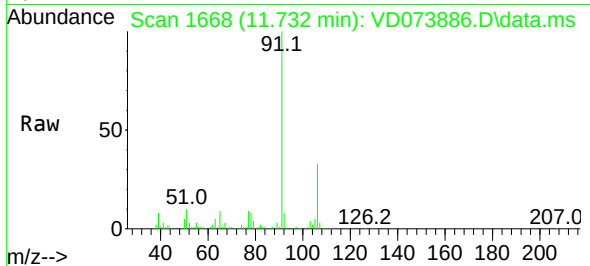




#67
Ethyl Benzene
Concen: 54.425 ug/l
RT: 11.732 min Scan# 1668
Delta R.T. -0.000 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

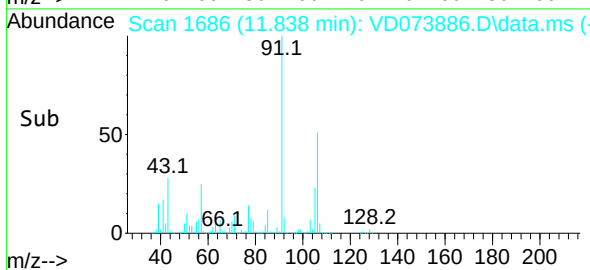
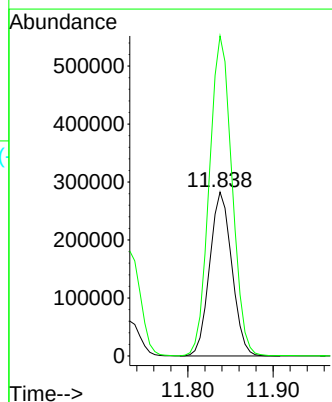
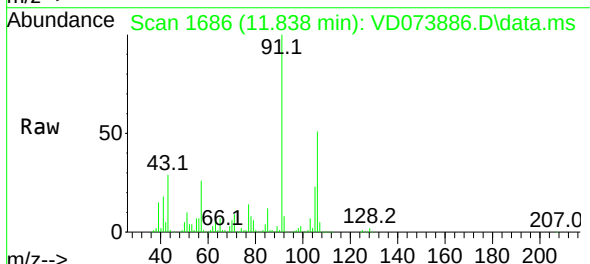
Instrument :
MSVOA_D
ClientSampleId :
TRE-1279-SLUDGE

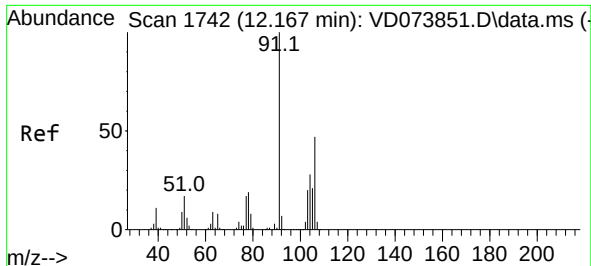
Tgt Ion: 91 Resp: 292696
Ion Ratio Lower Upper
91 100
106 33.3 24.2 36.4



#68
m/p-Xylenes
Concen: 242.910 ug/l
RT: 11.838 min Scan# 1686
Delta R.T. -0.006 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

Tgt Ion: 106 Resp: 510608
Ion Ratio Lower Upper
106 100
91 199.9 163.7 245.5

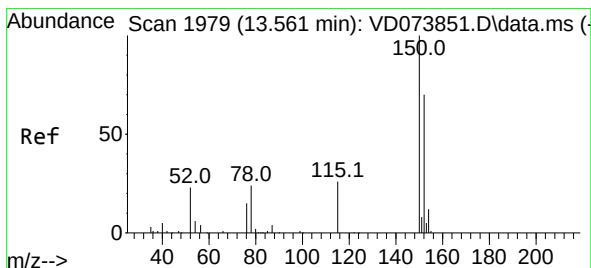
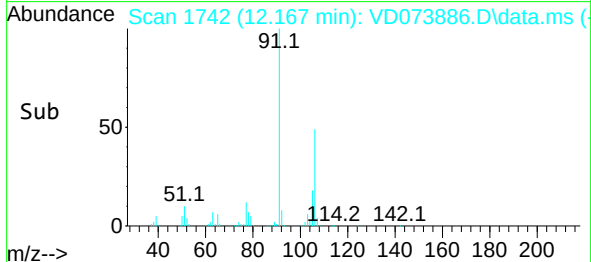
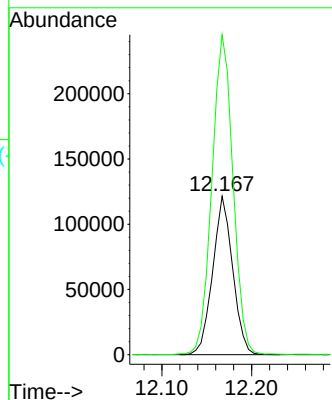
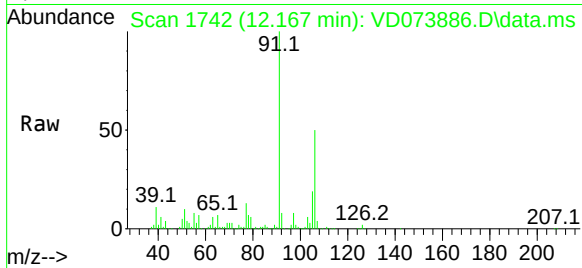




#69
o-Xylene
Concen: 95.518 ug/l
RT: 12.167 min Scan# 1742
Delta R.T. -0.000 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

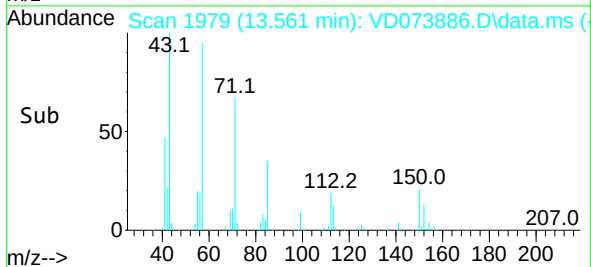
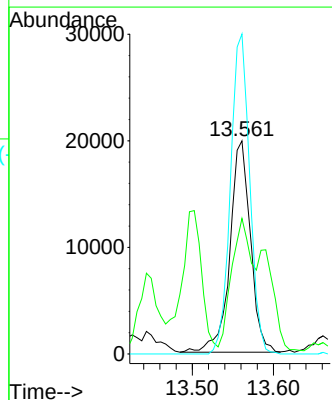
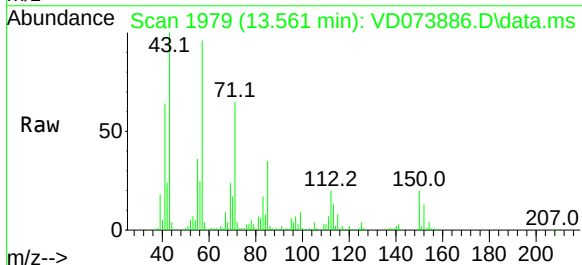
Instrument :
MSVOA_D
ClientSampleId :
TRE-1279-SLUDGE

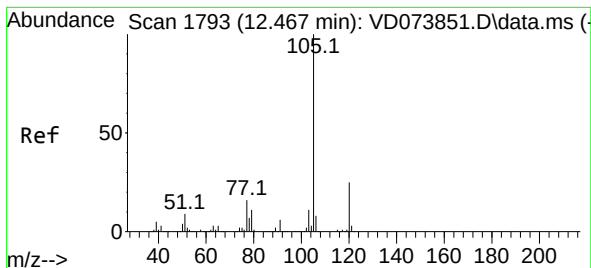
Tgt Ion:106 Resp: 187981
Ion Ratio Lower Upper
106 100
91 213.3 110.4 331.2



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.000 min
Lab File: VD073886.D
Acq: 20 Jul 2022 18:36

Tgt Ion:152 Resp: 34843
Ion Ratio Lower Upper
152 100
115 61.7 31.3 93.8
150 141.2 0.0 348.6





#73

Isopropylbenzene

Concen: 34.080 ug/l

RT: 12.467 min Scan# 1793

Delta R.T. -0.000 min

Lab File: VD073886.D

Acq: 20 Jul 2022 18:36

Instrument :

MSVOA_D

ClientSampleId :

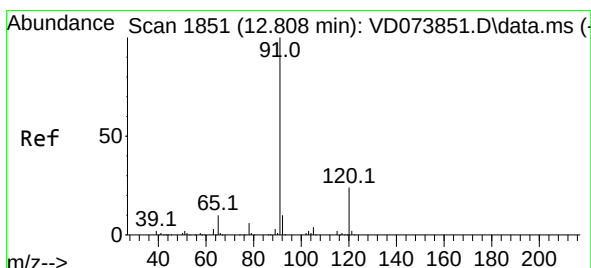
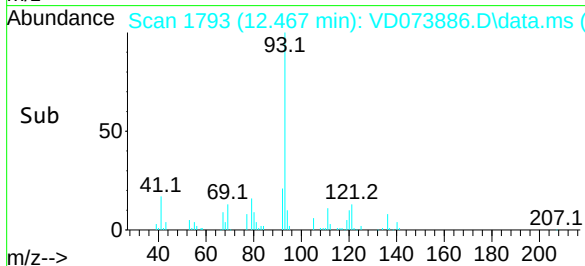
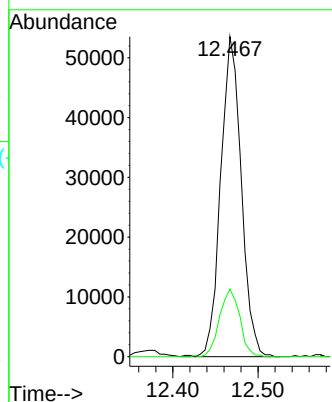
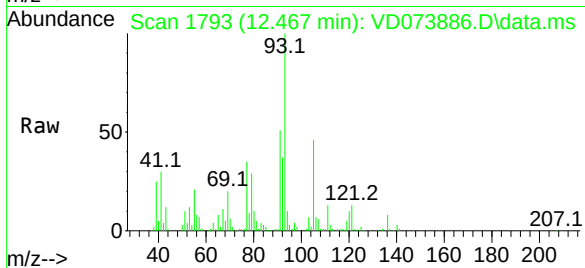
TRE-1279-SLUDGE

Tgt Ion:105 Resp: 89939

Ion Ratio Lower Upper

105 100

120 20.8 13.0 38.9



#78

n-propylbenzene

Concen: 71.798 ug/l

RT: 12.808 min Scan# 1851

Delta R.T. -0.000 min

Lab File: VD073886.D

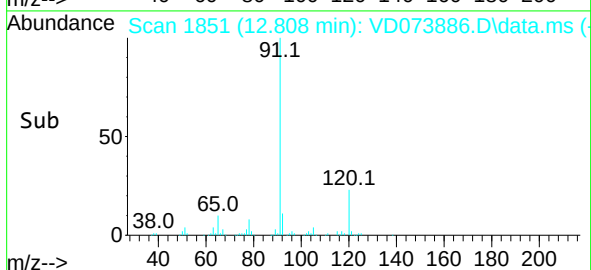
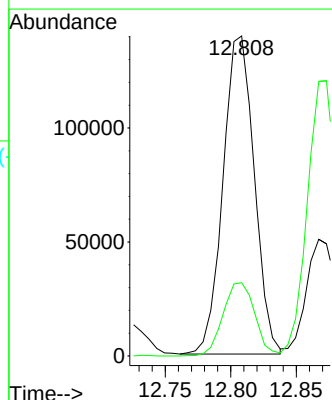
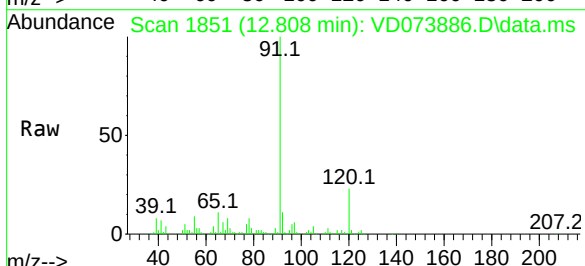
Acq: 20 Jul 2022 18:36

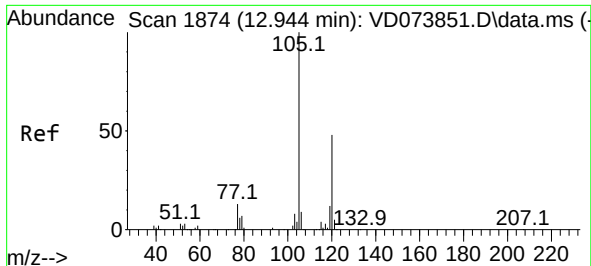
Tgt Ion: 91 Resp: 231146

Ion Ratio Lower Upper

91 100

120 23.5 10.9 32.9

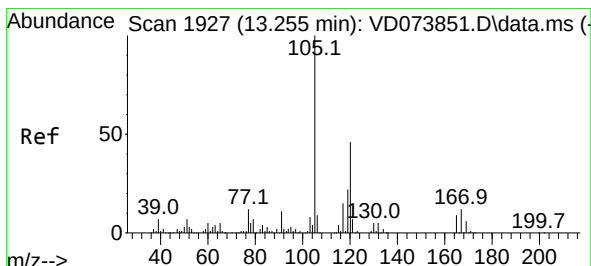
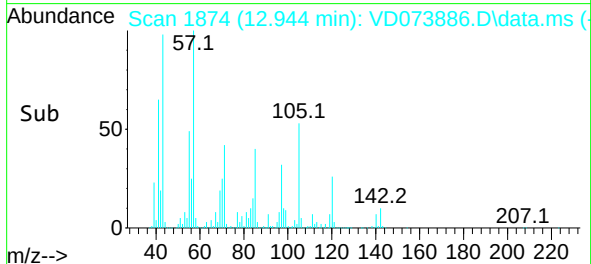
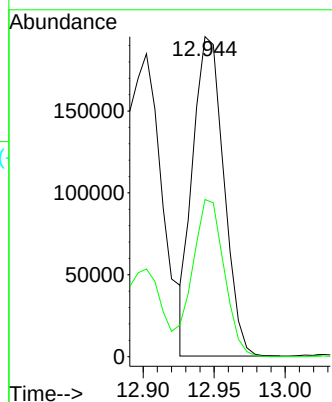
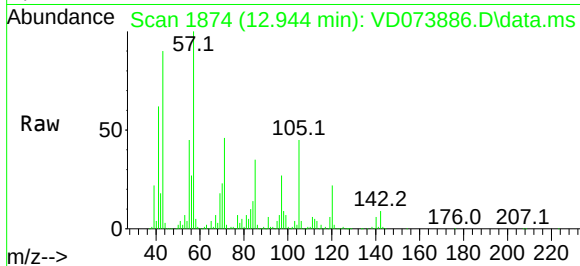




#80
 1,3,5-Trimethylbenzene
 Concen: 132.943 ug/l
 RT: 12.944 min Scan# 1874
 Delta R.T. -0.000 min
 Lab File: VD073886.D
 Acq: 20 Jul 2022 18:36

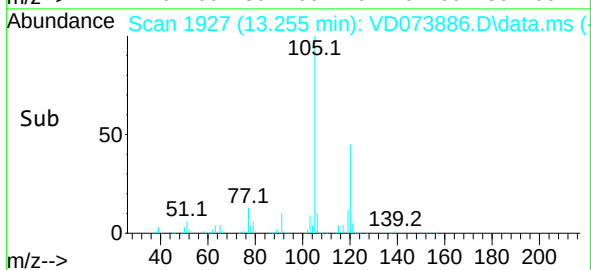
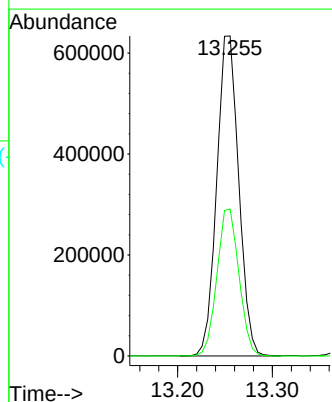
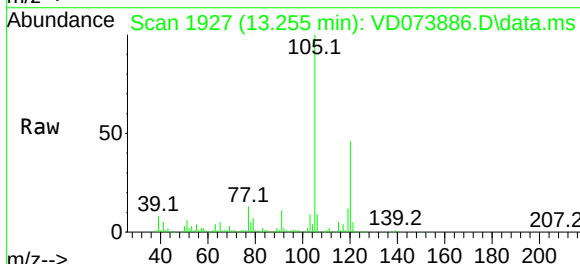
Instrument :
 MSVOA_D
 ClientSampleId :
 TRE-1279-SLUDGE

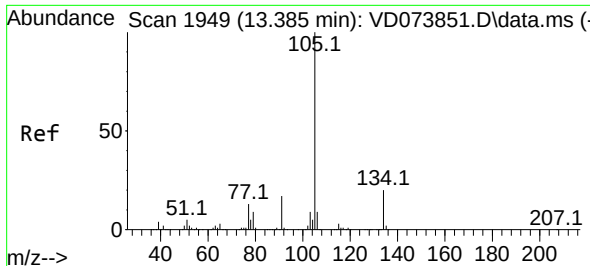
Tgt Ion:105 Resp: 295738
 Ion Ratio Lower Upper
 105 100
 120 51.0 24.3 72.8



#84
 1,2,4-Trimethylbenzene
 Concen: 461.149 ug/l
 RT: 13.255 min Scan# 1927
 Delta R.T. -0.000 min
 Lab File: VD073886.D
 Acq: 20 Jul 2022 18:36

Tgt Ion:105 Resp: 1021786
 Ion Ratio Lower Upper
 105 100
 120 46.0 22.3 66.8

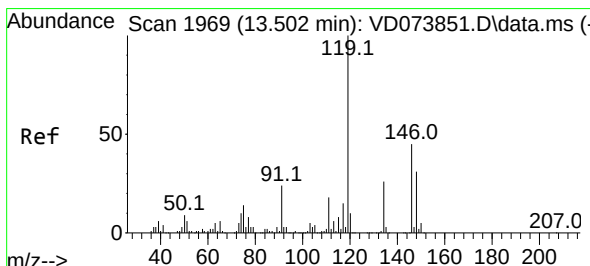
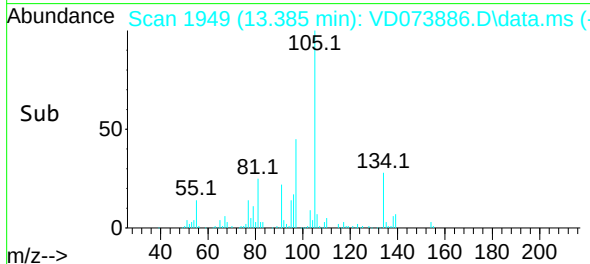
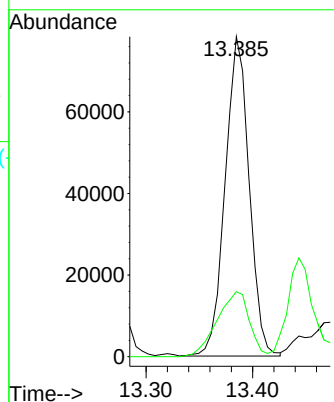
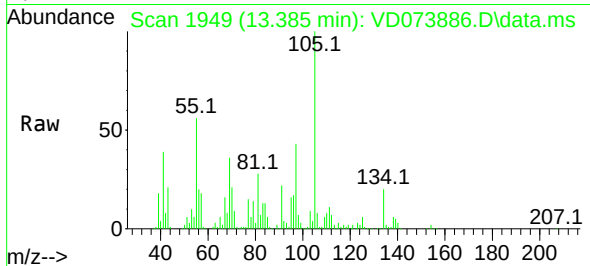




#85
 sec-Butylbenzene
 Concen: 42.651 ug/l
 RT: 13.385 min Scan# 1949
 Delta R.T. -0.000 min
 Lab File: VD073886.D
 Acq: 20 Jul 2022 18:36

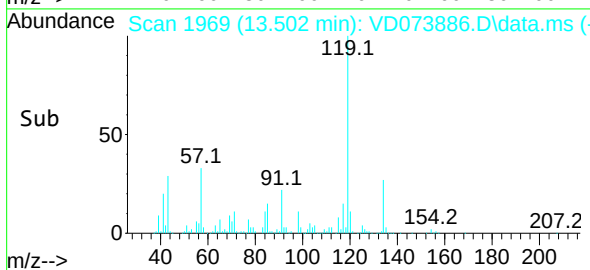
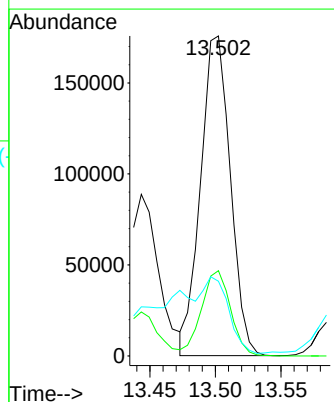
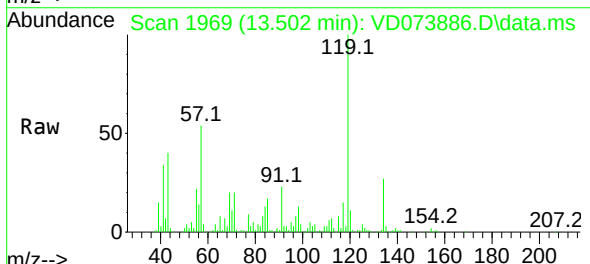
Instrument :
 MSVOA_D
 ClientSampleId :
 TRE-1279-SLUDGE

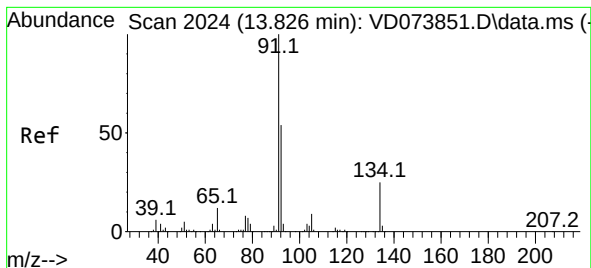
Tgt Ion:105 Resp: 122324
 Ion Ratio Lower Upper
 105 100
 134 27.4 9.8 29.3



#86
 p-Isopropyltoluene
 Concen: 114.783 ug/l
 RT: 13.502 min Scan# 1969
 Delta R.T. -0.000 min
 Lab File: VD073886.D
 Acq: 20 Jul 2022 18:36

Tgt Ion:119 Resp: 277201
 Ion Ratio Lower Upper
 119 100
 134 26.1 12.9 38.6
 91 21.0 12.1 36.3





#89

n-Butylbenzene

Concen: 109.174 ug/l

RT: 13.826 min Scan# 20

Delta R.T. -0.000 min

Lab File: VD073886.D

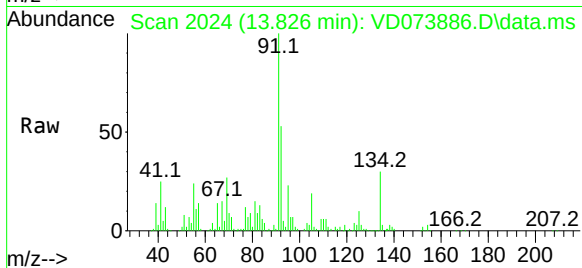
Acq: 20 Jul 2022 18:36

Instrument :

MSVOA_D

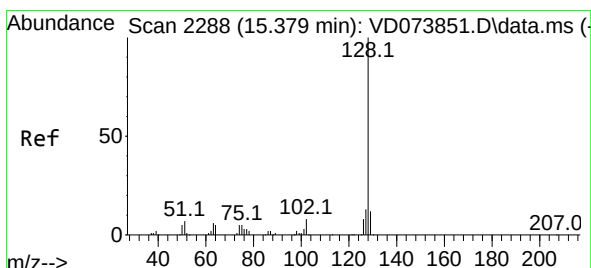
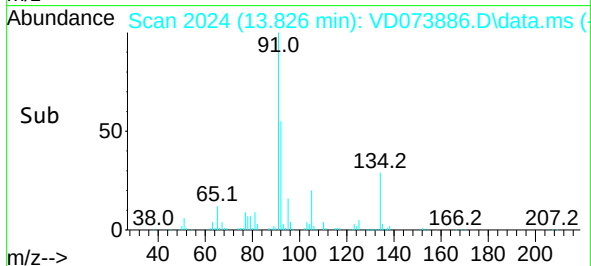
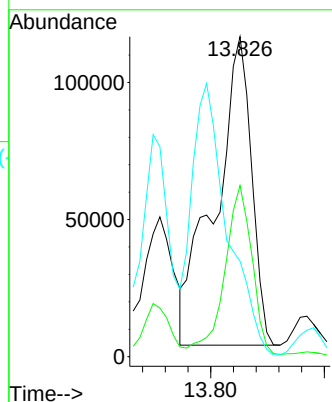
ClientSampleId :

TRE-1279-SLUDGE



Tgt Ion: 91 Resp: 250327

Ion	Ratio	Lower	Upper
91	100		
92	41.0	26.6	79.8
134	0.0	12.3	36.9#



#95

Naphthalene

Concen: 450.061 ug/l

RT: 15.379 min Scan# 2288

Delta R.T. -0.000 min

Lab File: VD073886.D

Acq: 20 Jul 2022 18:36

Tgt Ion: 128 Resp: 524058

Ion	Ratio	Lower	Upper
128	100		
127	14.5	10.3	15.5
129	11.7	8.4	12.6

