

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD022522\
 Data File : VD072107.D
 Acq On : 25 Feb 2022 18:27
 Operator : VA/SY
 Sample : N1655-05
 Misc : 5.45G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 PREM-MID

Quant Time: Feb 26 05:44:15 2022
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D021822S.M
 Quant Title : SW846 8260
 QLast Update : Sat Feb 19 04:05:38 2022
 Response via : Initial Calibration

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

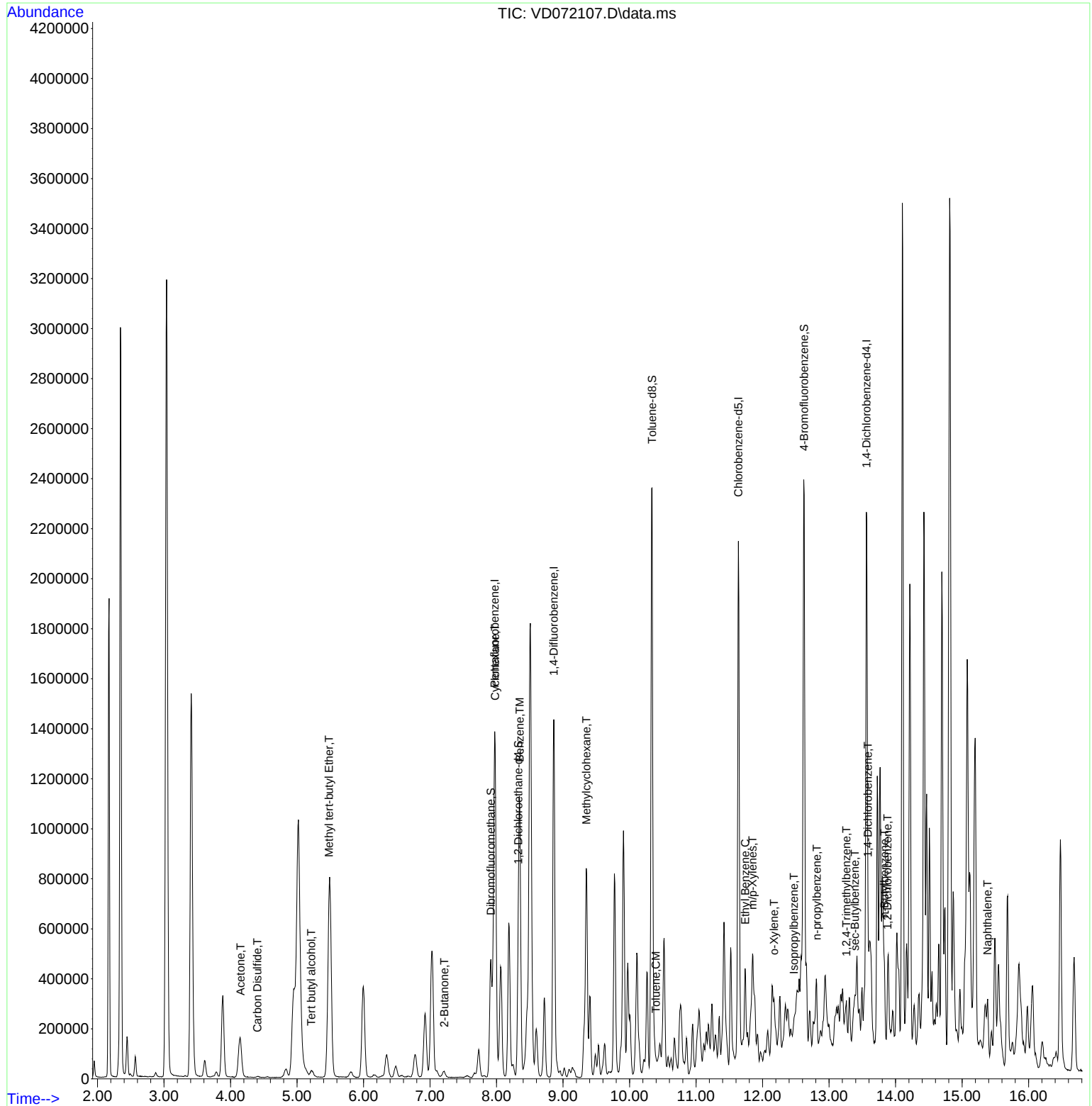
Internal Standards						
1) Pentafluorobenzene	7.973	168	705763	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.861	114	1162981	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.638	117	1119064	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	533678	50.000	ug/l	0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.326	65	317702	43.397	ug/l	0.00
Spiked Amount	50.000	Range	50 - 163	Recovery	=	86.800%
35) Dibromofluoromethane	7.914	113	334057	47.410	ug/l	0.00
Spiked Amount	50.000	Range	54 - 147	Recovery	=	94.820%
50) Toluene-d8	10.338	98	1442498	55.205	ug/l	0.00
Spiked Amount	50.000	Range	49 - 140	Recovery	=	110.400%
62) 4-Bromofluorobenzene	12.626	95	559913	58.335	ug/l	0.00
Spiked Amount	50.000	Range	25 - 144	Recovery	=	116.660%
Target Compounds						
					Qvalue	
11) Tert butyl alcohol	5.214	59	45452	108.814	ug/l #	80
16) Acetone	4.150	43	123879	78.297	ug/l #	67
17) Carbon Disulfide	4.403	76	8499	1.128	ug/l #	93
19) Methyl tert-butyl Ether	5.479	73	289165	18.430	ug/l #	1
25) 2-Butanone	7.214	43	18945	8.664	ug/l #	83
31) Cyclohexane	7.979	56	251640	19.460	ug/l	95
39) Methylcyclohexane	9.349	83	260389	20.844	ug/l	94
40) Benzene	8.350	78	965466	32.056	ug/l	99
52) Toluene	10.396	92	21282	1.104	ug/l	100
67) Ethyl Benzene	11.738	91	181198	4.751	ug/l	96
68) m/p-Xylenes	11.849	106	71960	4.929	ug/l	100
69) o-Xylene	12.173	106	39917	2.907	ug/l	97
73) Isopropylbenzene	12.473	105	60745	1.658	ug/l	100
78) n-propylbenzene	12.814	91	165190	3.668	ug/l	100
84) 1,2,4-Trimethylbenzene	13.261	105	88520	2.943	ug/l	99
85) sec-Butylbenzene	13.390	105	83889	2.095	ug/l #	58
88) 1,4-Dichlorobenzene	13.585	146	49073	2.816	ug/l #	84
89) n-Butylbenzene	13.832	91	232259	7.416	ug/l #	71
91) 1,2-Dichlorobenzene	13.879	146	21177	1.392	ug/l	92
95) Naphthalene	15.384	128	136341	8.038	ug/l	98

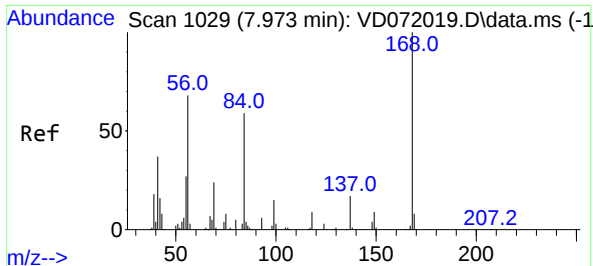
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Sat Feb 19 04:05:38 2022
Response via : Initial Calibration

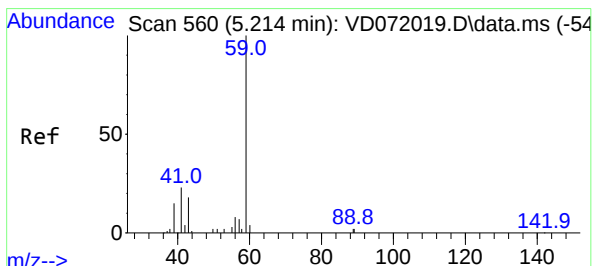
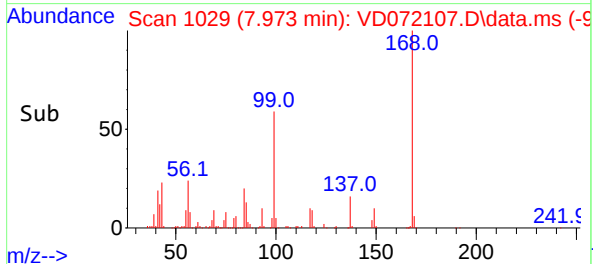
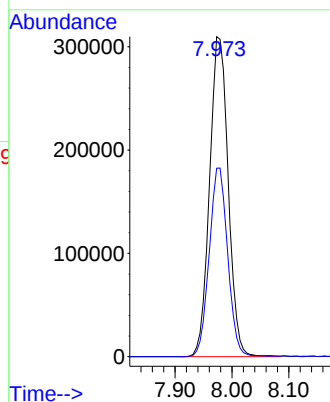
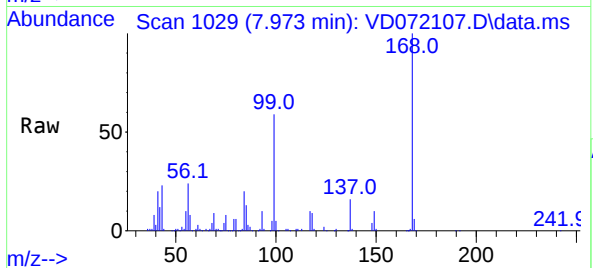




#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.973 min Scan# 1029
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

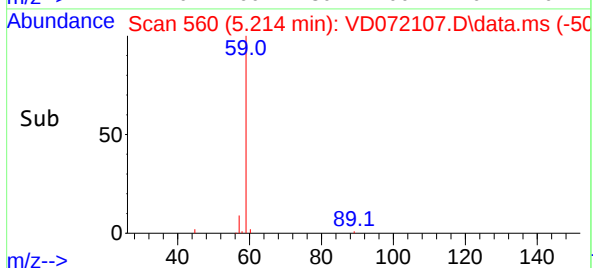
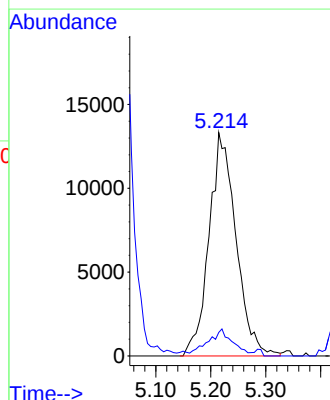
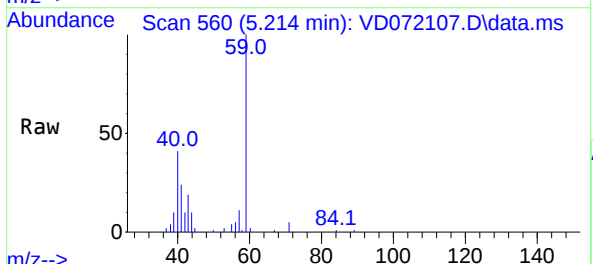
Instrument :
MSVOA_D
ClientSampleId :
PREM-MID

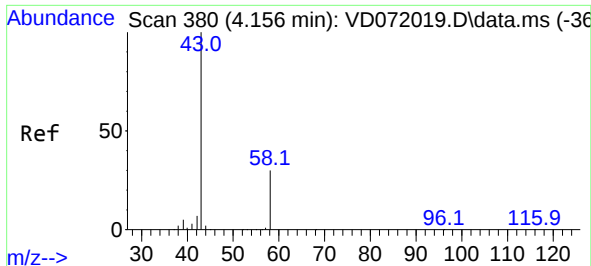
Tgt Ion:168 Resp: 705763
Ion Ratio Lower Upper
168 100
99 58.9 47.1 70.7



#11
Tert butyl alcohol
Concen: 108.814 ug/l
RT: 5.214 min Scan# 560
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

Tgt Ion: 59 Resp: 45452
Ion Ratio Lower Upper
59 100
57 0.0 5.4 8.2#

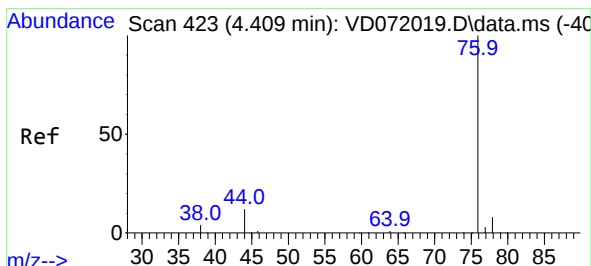
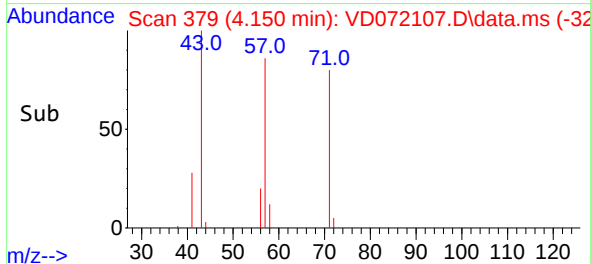
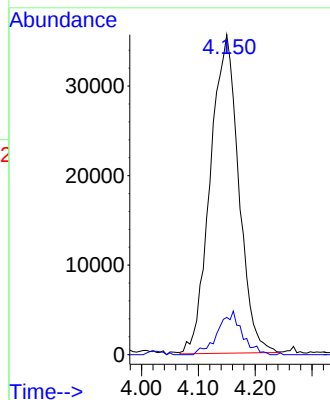
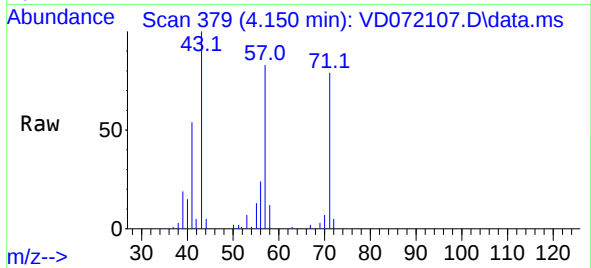




#16
Acetone
Concen: 78.297 ug/l
RT: 4.150 min Scan# 31
Delta R.T. -0.006 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

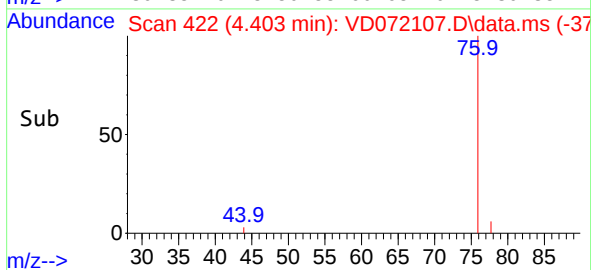
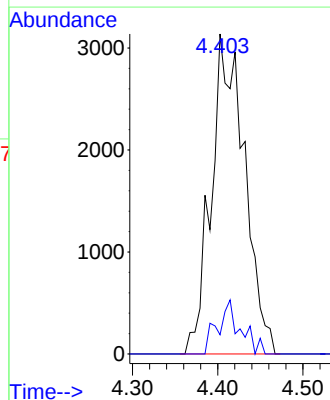
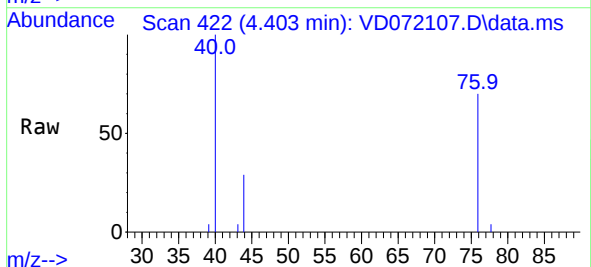
Instrument :
MSVOA_D
ClientSampleId :
PREM-MID

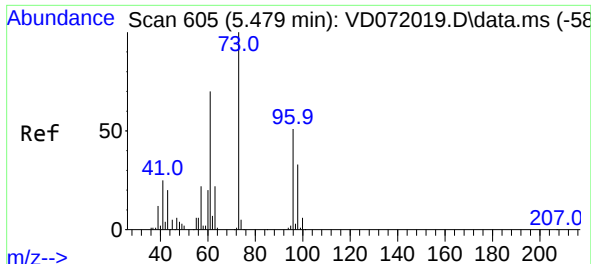
Tgt Ion: 43 Resp: 123879
Ion Ratio Lower Upper
43 100
58 11.7 23.8 35.6#



#17
Carbon Disulfide
Concen: 1.128 ug/l
RT: 4.403 min Scan# 422
Delta R.T. -0.006 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

Tgt Ion: 76 Resp: 8499
Ion Ratio Lower Upper
76 100
78 6.0 6.7 10.1#





#19

Methyl tert-butyl Ether

Concen: 18.430 ug/l

RT: 5.479 min Scan# 605

Delta R.T. 0.000 min

Lab File: VD072107.D

Acq: 25 Feb 2022 18:27

Instrument :

MSVOA_D

ClientSampleId :

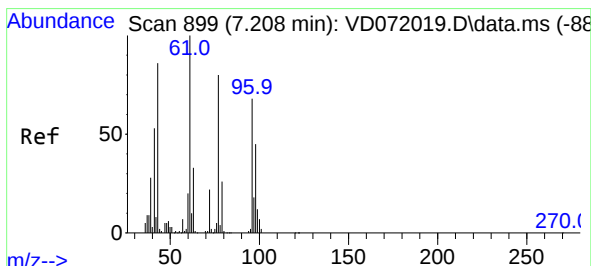
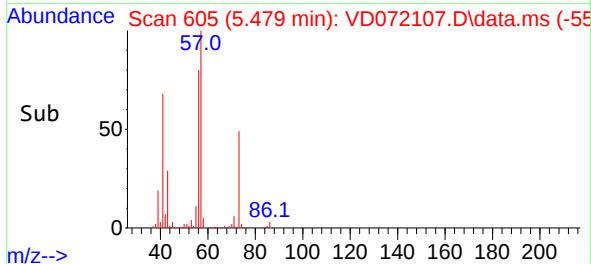
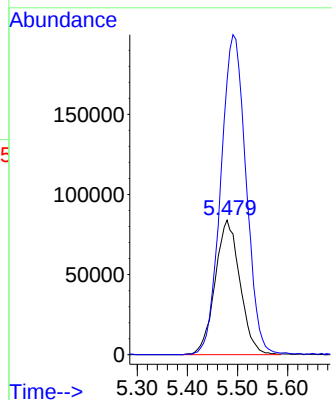
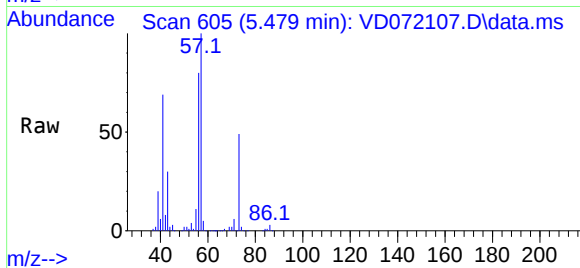
PREM-MID

Tgt Ion: 73 Resp: 289165

Ion Ratio Lower Upper

73 100

57 203.7 18.0 27.0#



#25

2-Butanone

Concen: 8.664 ug/l

RT: 7.214 min Scan# 900

Delta R.T. 0.006 min

Lab File: VD072107.D

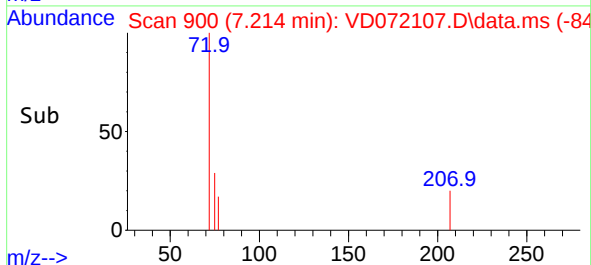
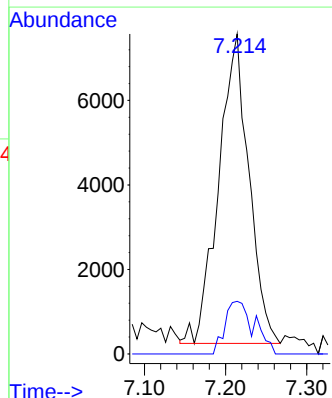
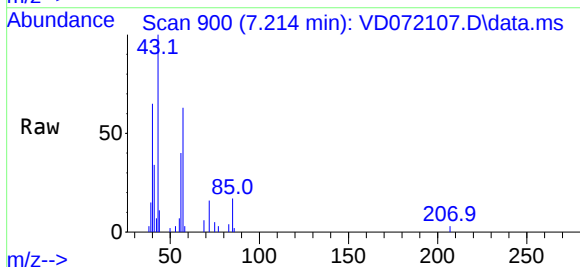
Acq: 25 Feb 2022 18:27

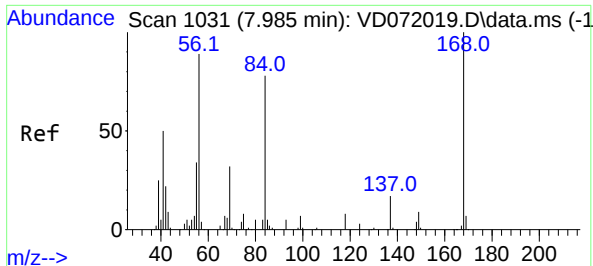
Tgt Ion: 43 Resp: 18945

Ion Ratio Lower Upper

43 100

72 17.0 20.3 30.5#





#31

Cyclohexane

Concen: 19.460 ug/l

RT: 7.979 min Scan# 1030

Delta R.T. -0.006 min

Lab File: VD072107.D

Acq: 25 Feb 2022 18:27

Instrument :

MSVOA_D

ClientSampleId :

PREM-MID

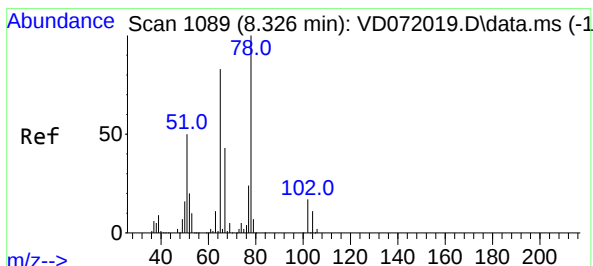
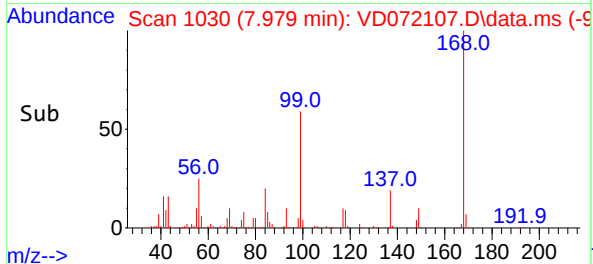
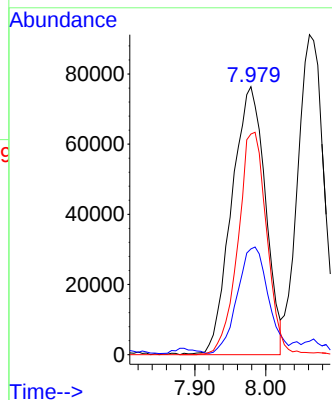
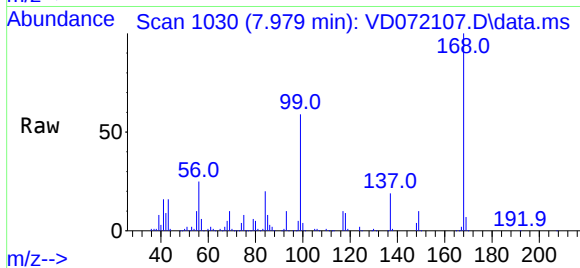
Tgt Ion: 56 Resp: 251640

Ion Ratio Lower Upper

56 100

69 37.1 28.9 43.3

84 82.3 70.6 105.8



#33

1,2-Dichloroethane-d4

Concen: 43.397 ug/l

RT: 8.326 min Scan# 1089

Delta R.T. 0.000 min

Lab File: VD072107.D

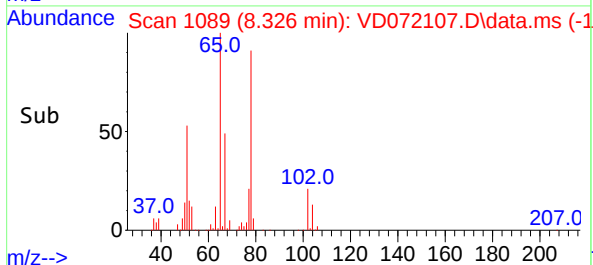
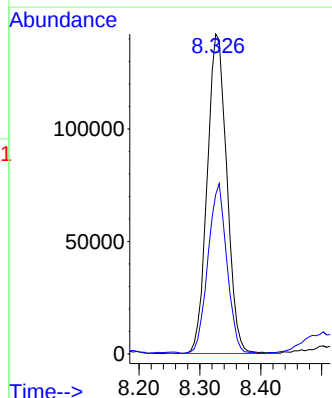
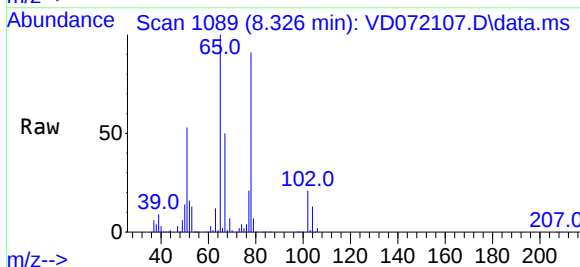
Acq: 25 Feb 2022 18:27

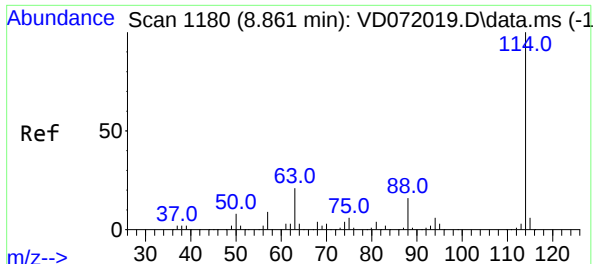
Tgt Ion: 65 Resp: 317702

Ion Ratio Lower Upper

65 100

67 51.1 0.0 105.6

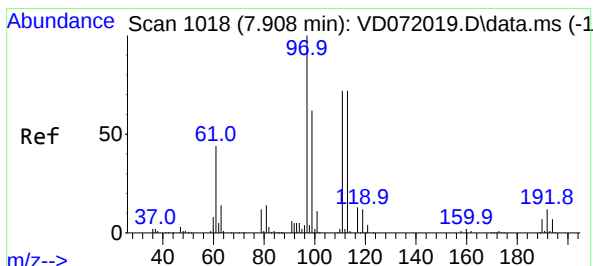
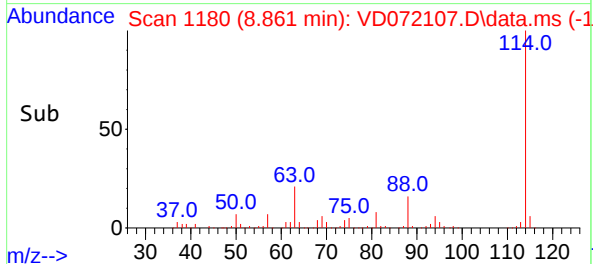
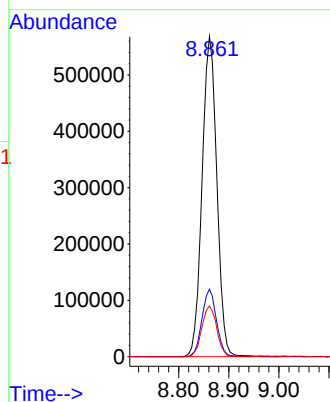
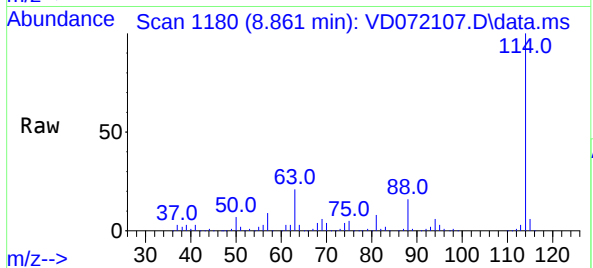




#34
1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.861 min Scan# 1180
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

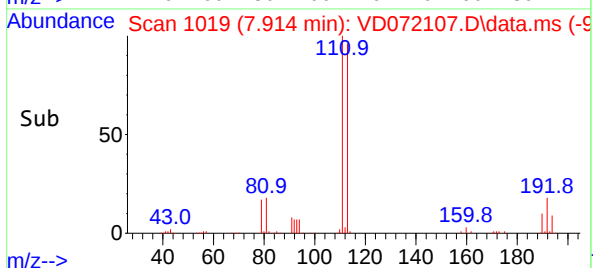
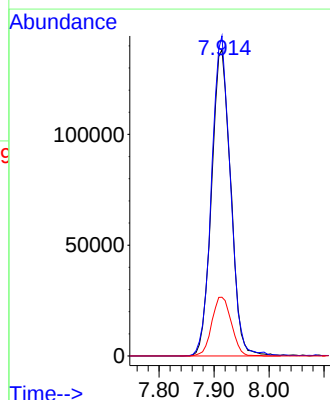
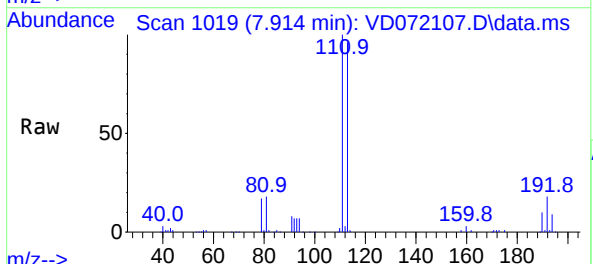
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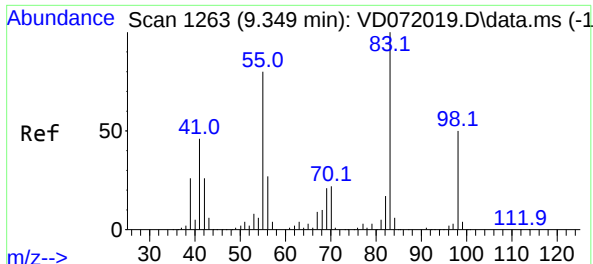
Tgt Ion:114 Resp: 1162981
Ion Ratio Lower Upper
114 100
63 21.1 0.0 42.2
88 15.9 0.0 31.2



#35
Dibromofluoromethane
Concen: 47.410 ug/l
RT: 7.914 min Scan# 1019
Delta R.T. 0.006 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

Tgt Ion:113 Resp: 334057
Ion Ratio Lower Upper
113 100
111 102.7 83.0 124.4
192 19.6 15.3 22.9

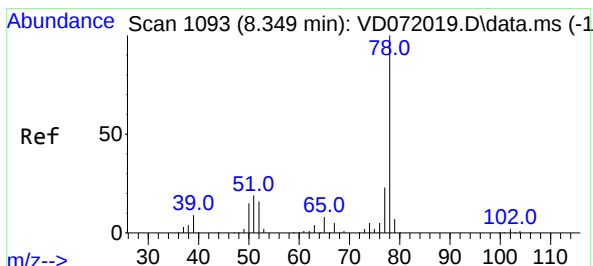
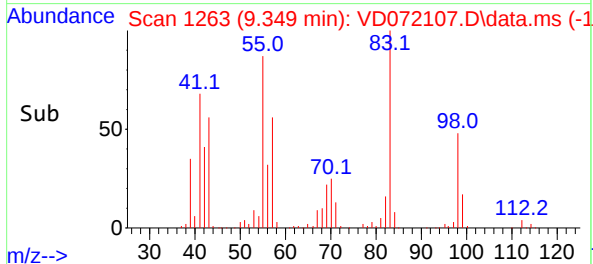
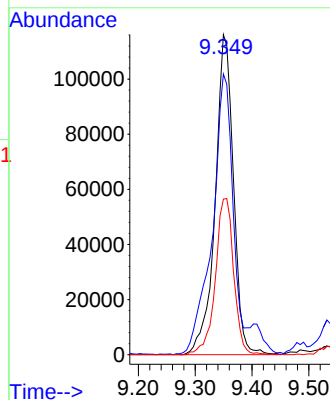
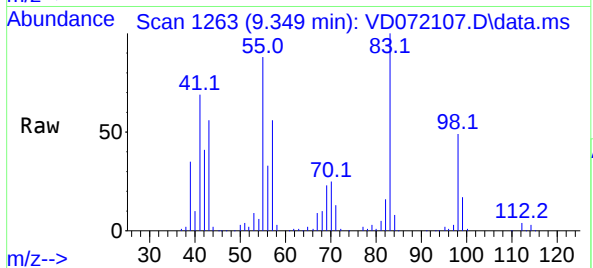




#39
Methylcyclohexane
Concen: 20.844 ug/l
RT: 9.349 min Scan# 1263
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

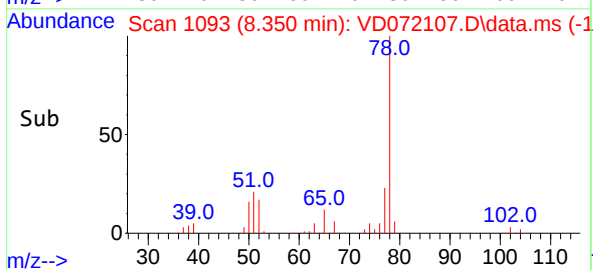
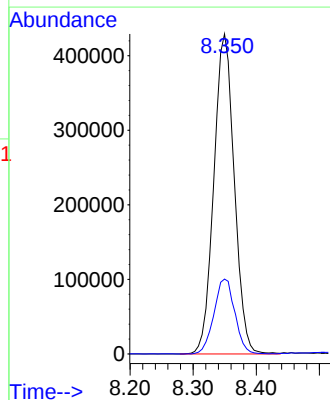
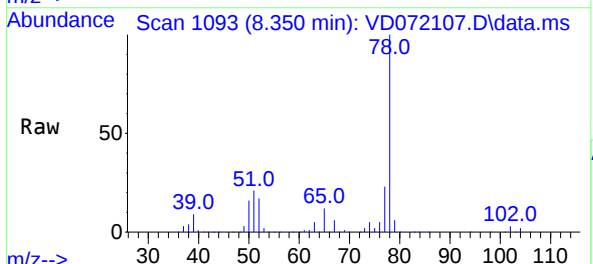
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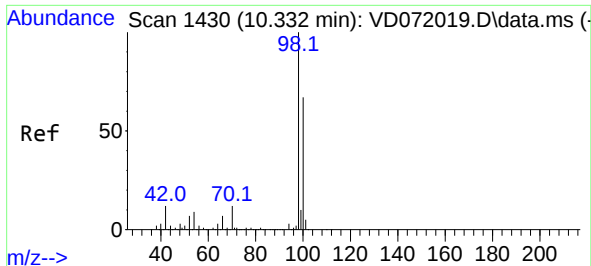
Tgt Ion: 83 Resp: 260389
Ion Ratio Lower Upper
83 100
55 87.4 64.0 96.0
98 48.6 39.8 59.8



#40
Benzene
Concen: 32.056 ug/l
RT: 8.350 min Scan# 1093
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

Tgt Ion: 78 Resp: 965466
Ion Ratio Lower Upper
78 100
77 23.4 18.2 27.4

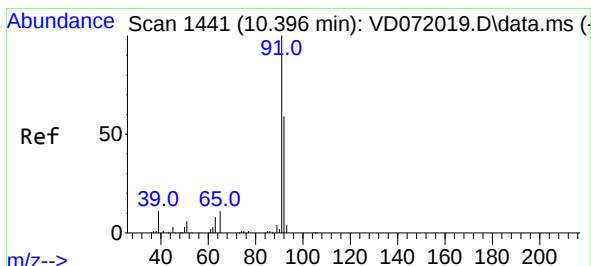
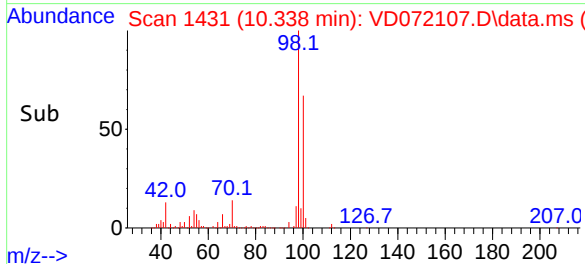
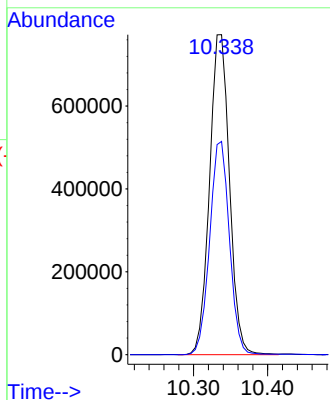
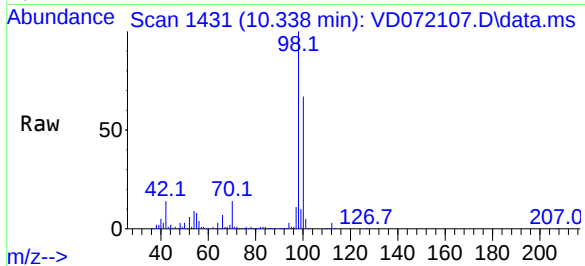




#50
Toluene-d8
Concen: 55.205 ug/l
RT: 10.338 min Scan# 1430
Delta R.T. 0.006 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

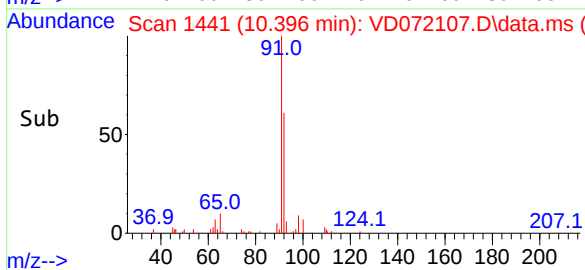
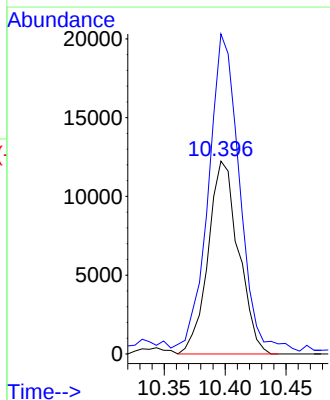
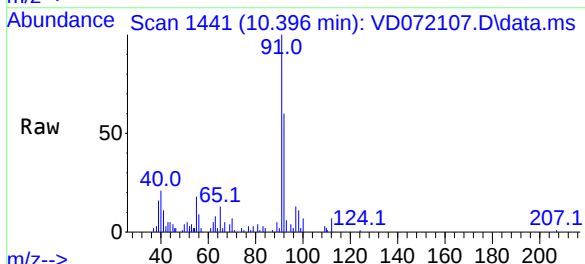
Instrument :
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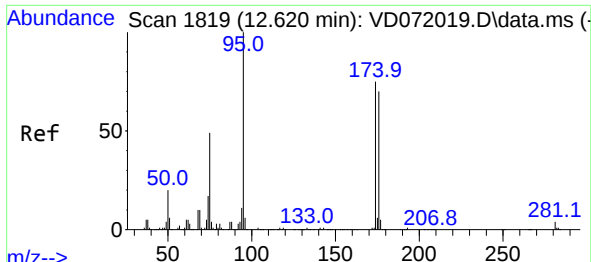
Tgt Ion: 98 Resp: 1442498
Ion Ratio Lower Upper
98 100
100 66.0 53.8 80.6



#52
Toluene
Concen: 1.104 ug/l
RT: 10.396 min Scan# 1441
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

Tgt Ion: 92 Resp: 21282
Ion Ratio Lower Upper
92 100
91 169.4 135.6 203.4

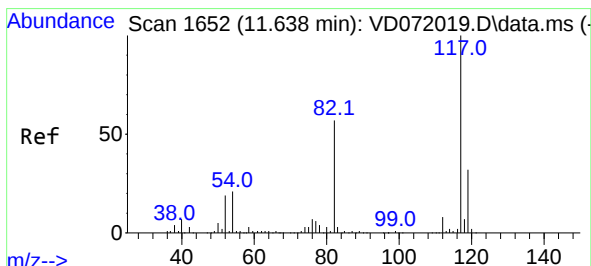
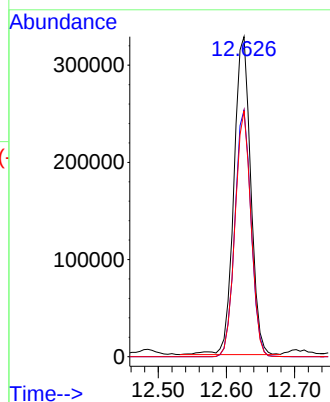
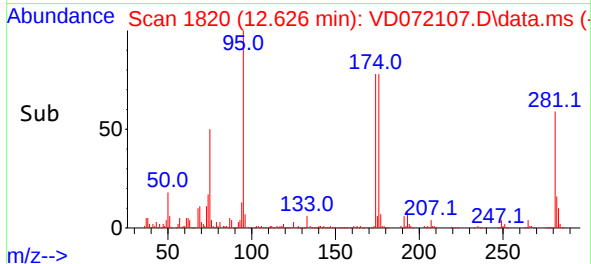
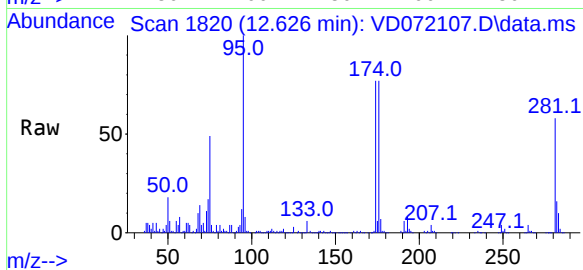




#62
4-Bromofluorobenzene
Concen: 58.335 ug/l
RT: 12.626 min Scan# 1819
Delta R.T. 0.006 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

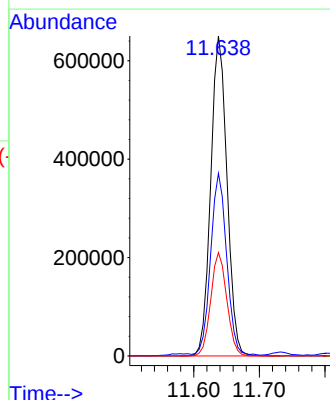
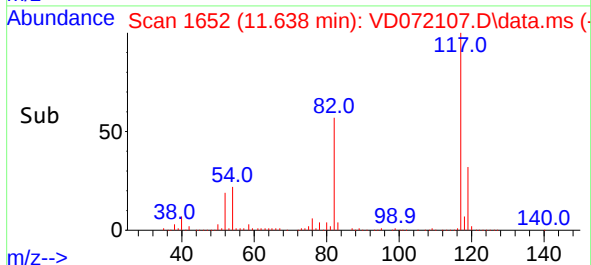
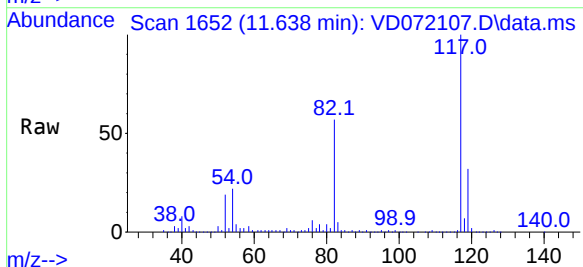
Instrument :
MSVOA_D
ClientSampleId :
PREM-MID

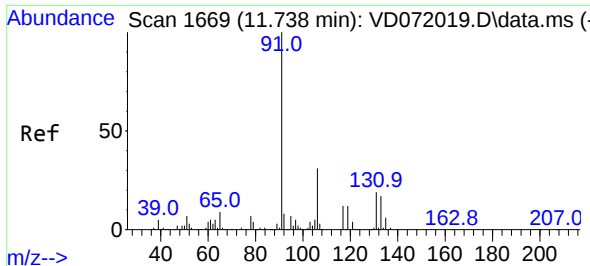
Tgt Ion: 95 Resp: 559913
Ion Ratio Lower Upper
95 100
174 74.6 0.0 155.0
176 73.6 0.0 148.8



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.638 min Scan# 1652
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

Tgt Ion: 117 Resp: 1119064
Ion Ratio Lower Upper
117 100
82 56.4 45.4 68.0
119 32.3 25.4 38.2

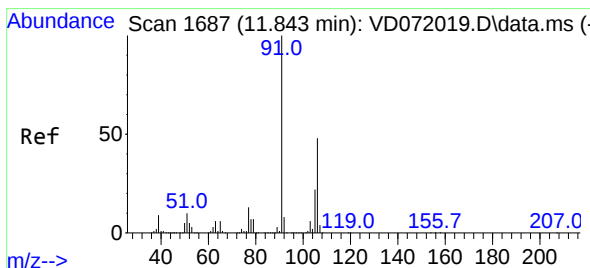
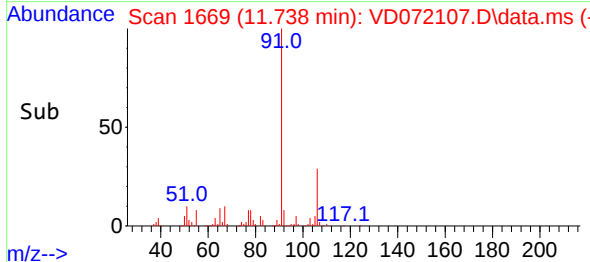
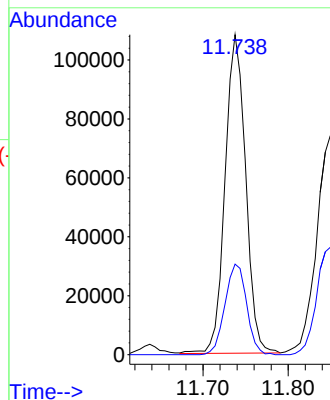
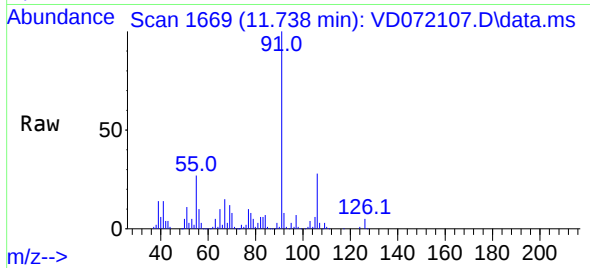




#67
Ethyl Benzene
Concen: 4.751 ug/l
RT: 11.738 min Scan# 1669
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

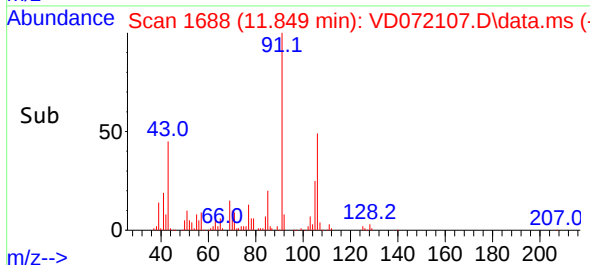
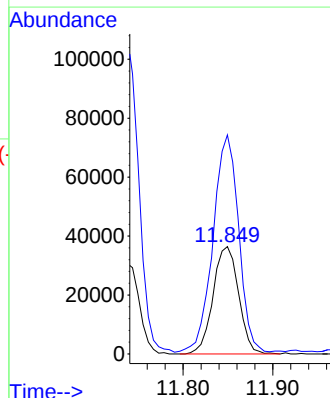
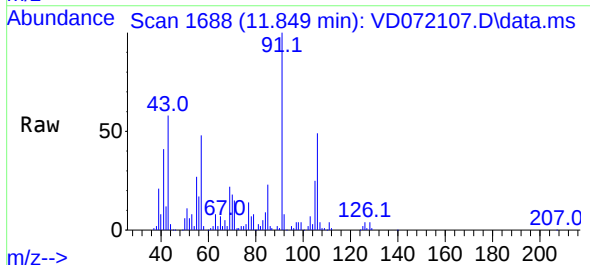
Instrument :
MSVOA_D
ClientSampleId :
PREM-MID

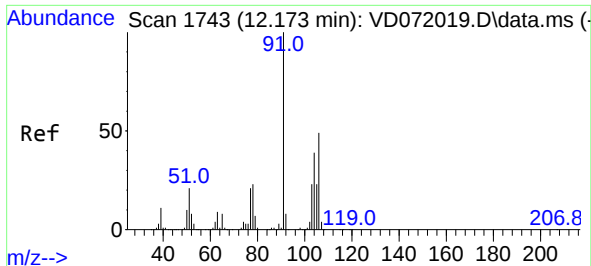
Tgt Ion: 91 Resp: 181198
Ion Ratio Lower Upper
91 100
106 28.5 24.6 36.8



#68
m/p-Xylenes
Concen: 4.929 ug/l
RT: 11.849 min Scan# 1688
Delta R.T. 0.006 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

Tgt Ion: 106 Resp: 71960
Ion Ratio Lower Upper
106 100
91 202.7 162.6 243.8

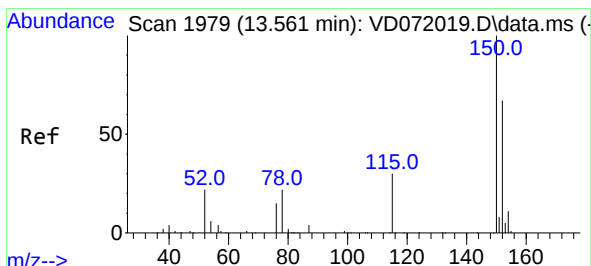
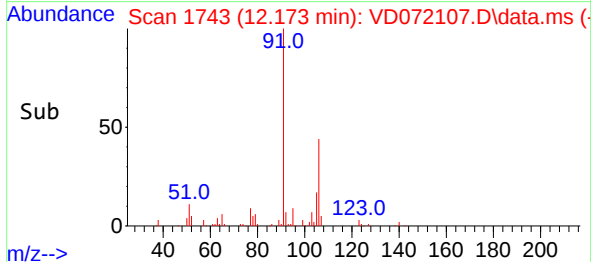
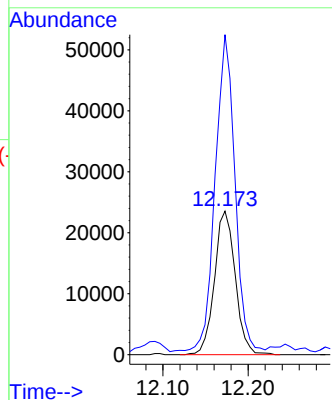
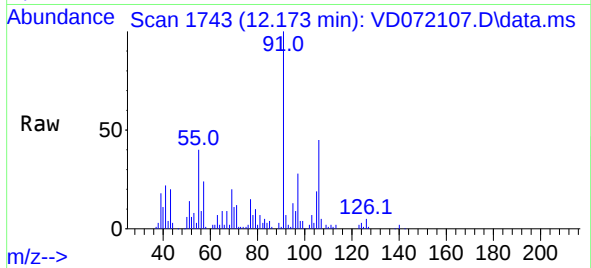




#69
o-Xylene
Concen: 2.907 ug/l
RT: 12.173 min Scan# 1743
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

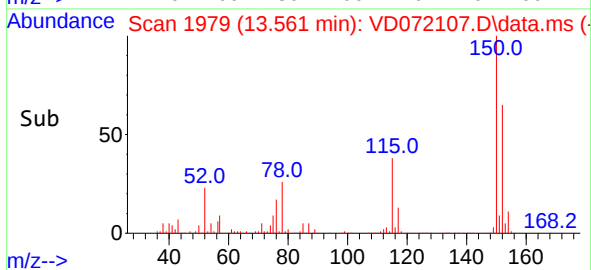
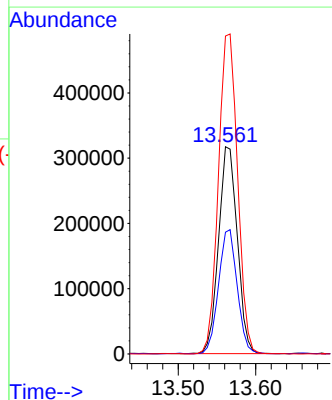
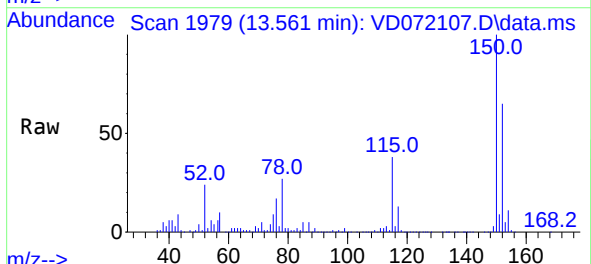
Instrument :
MSVOA_D
ClientSampleId :
PREM-MID

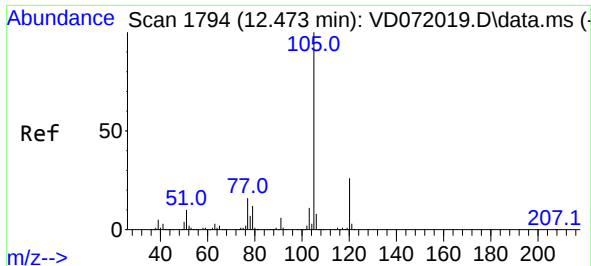
Tgt Ion:106 Resp: 39917
Ion Ratio Lower Upper
106 100
91 207.6 106.0 317.9



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

Tgt Ion:152 Resp: 533678
Ion Ratio Lower Upper
152 100
115 59.7 29.9 89.7
150 158.3 0.0 347.6

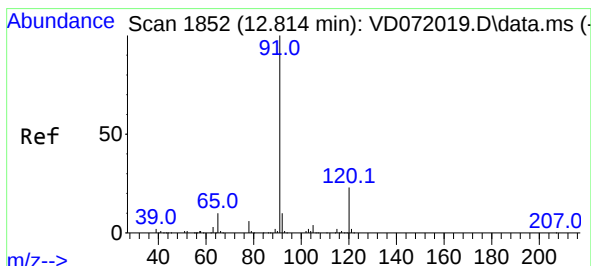
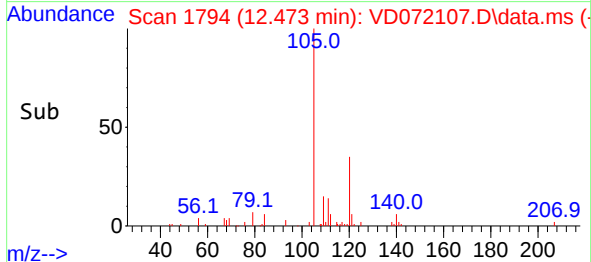
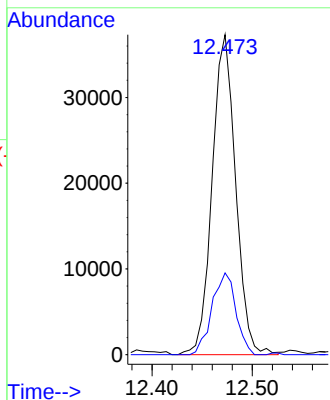
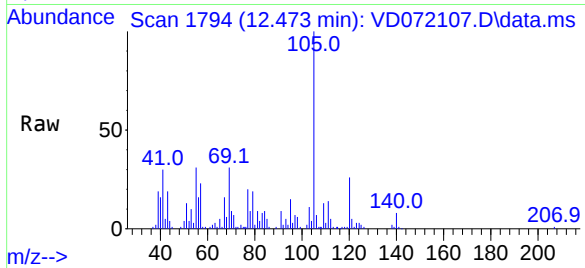




#73
Isopropylbenzene
Concen: 1.658 ug/l
RT: 12.473 min Scan# 1794
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

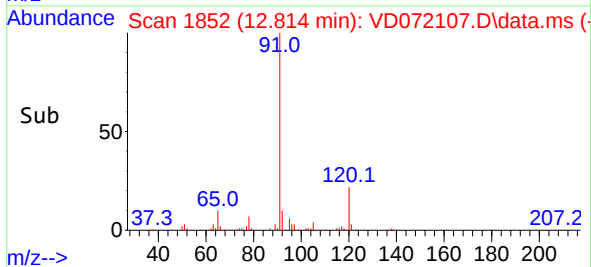
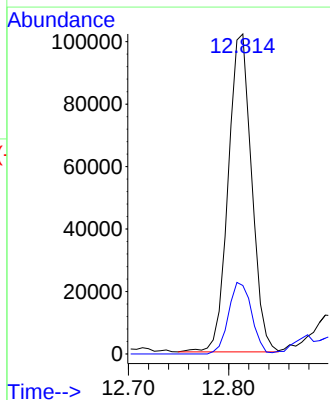
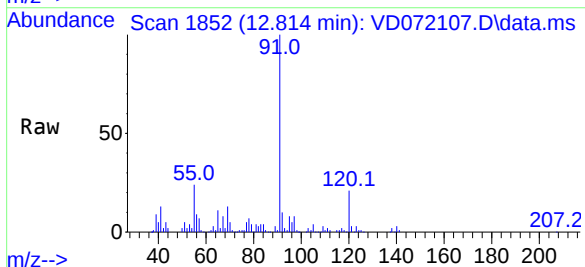
Instrument :
MSVOA_D
ClientSampleId :
PREM-MID

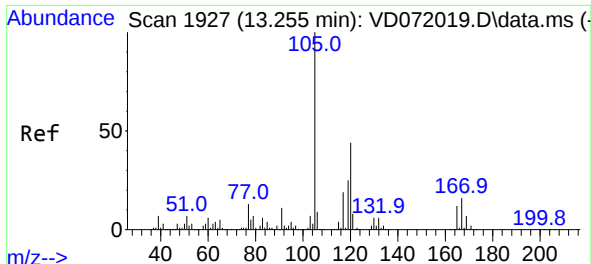
Tgt Ion:105 Resp: 60745
Ion Ratio Lower Upper
105 100
120 26.0 13.1 39.1



#78
n-propylbenzene
Concen: 3.668 ug/l
RT: 12.814 min Scan# 1852
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

Tgt Ion: 91 Resp: 165190
Ion Ratio Lower Upper
91 100
120 22.2 11.2 33.5

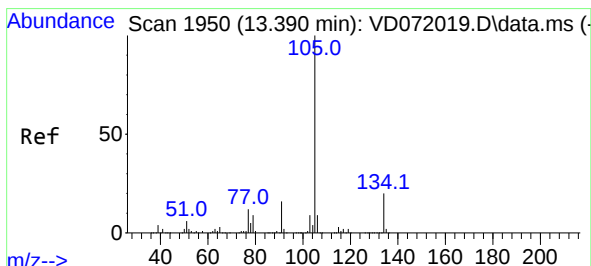
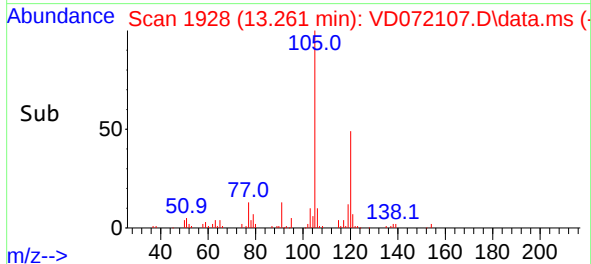
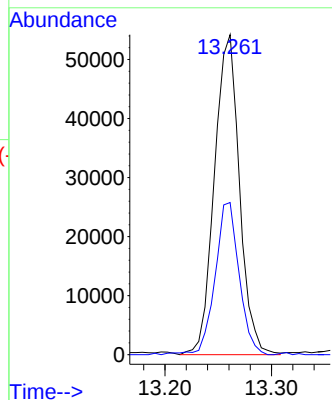
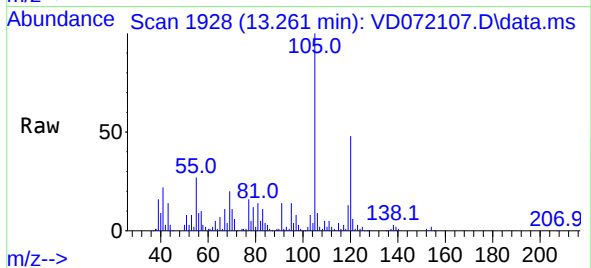




#84
1,2,4-Trimethylbenzene
Concen: 2.943 ug/l
RT: 13.261 min Scan# 1928
Delta R.T. 0.006 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

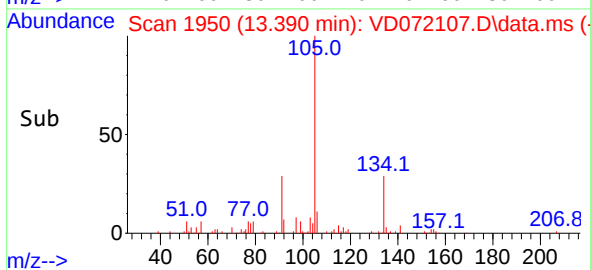
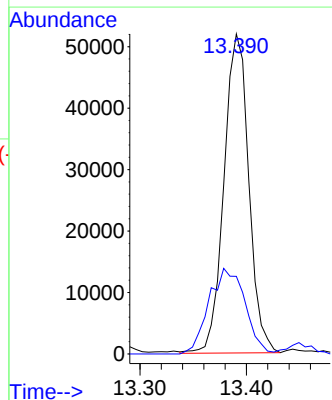
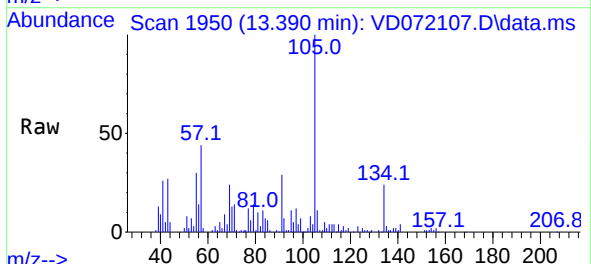
Instrument :
MSVOA_D
ClientSampleId :
PREM-MID

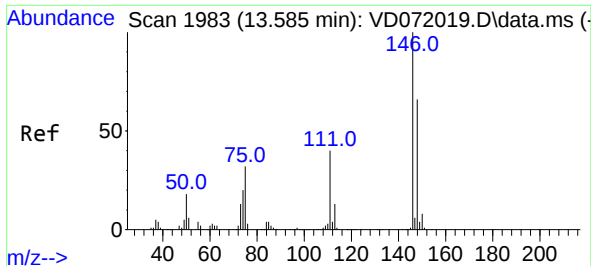
Tgt Ion:105 Resp: 88520
Ion Ratio Lower Upper
105 100
120 45.7 22.4 67.3



#85
sec-Butylbenzene
Concen: 2.095 ug/l
RT: 13.390 min Scan# 1950
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

Tgt Ion:105 Resp: 83889
Ion Ratio Lower Upper
105 100
134 39.1 10.0 29.8#

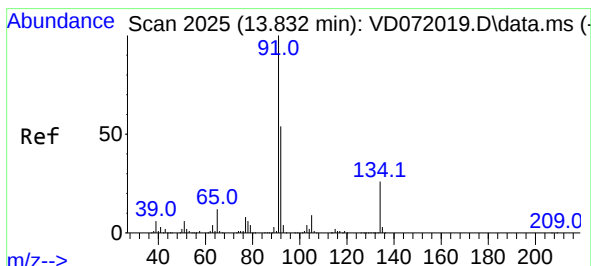
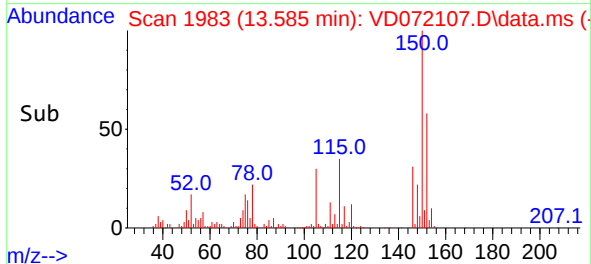
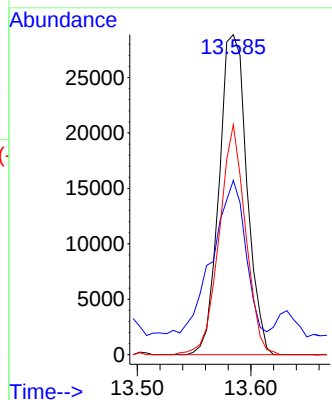
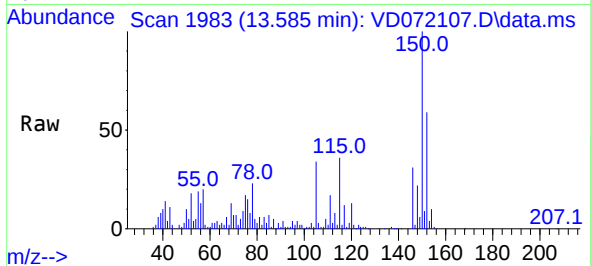




#88
1,4-Dichlorobenzene
Concen: 2.816 ug/l
RT: 13.585 min Scan# 1983
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

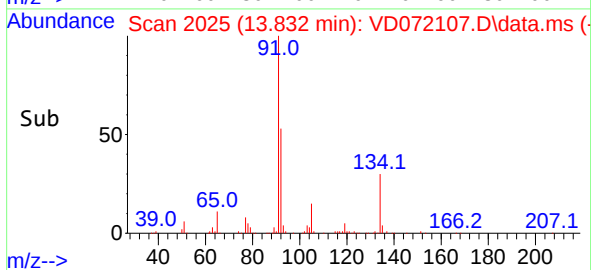
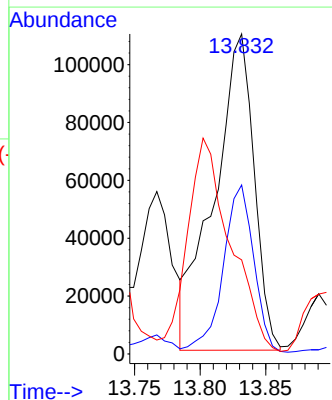
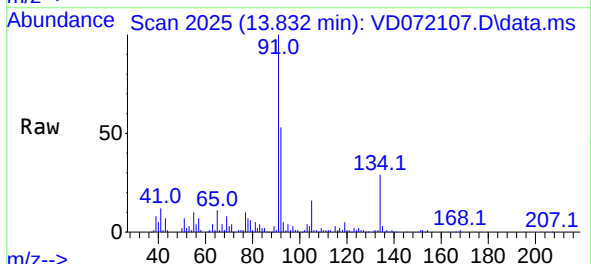
Instrument :
MSVOA_D
ClientSampleId :
PREM-MID

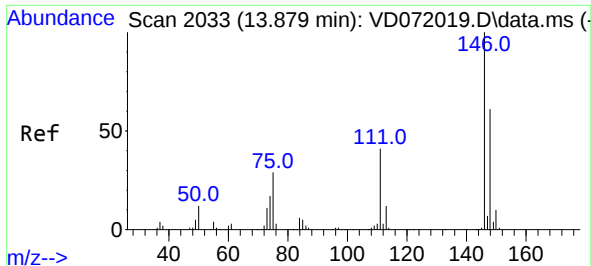
Tgt Ion:146 Resp: 49073
Ion Ratio Lower Upper
146 100
111 62.2 20.1 60.2#
148 67.8 32.5 97.5



#89
n-Butylbenzene
Concen: 7.416 ug/l
RT: 13.832 min Scan# 2025
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

Tgt Ion: 91 Resp: 232259
Ion Ratio Lower Upper
91 100
92 40.4 27.0 81.0
134 0.0 12.8 38.4#

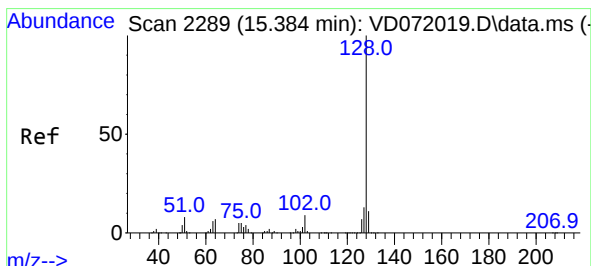
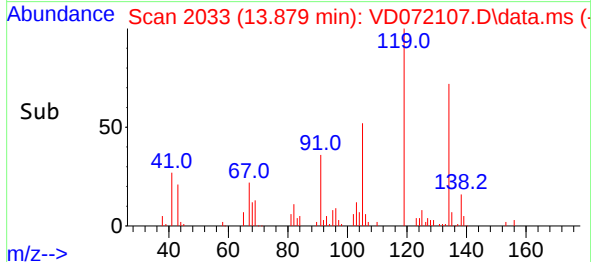
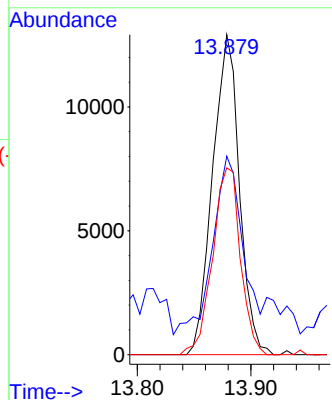
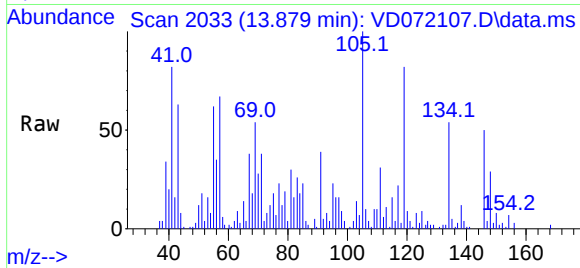




#91
1,2-Dichlorobenzene
Concen: 1.392 ug/l
RT: 13.879 min Scan# 2033
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

Instrument :
MSVOA_D
ClientSampleId :
PREM-MID

Tgt Ion:146 Resp: 21177
Ion Ratio Lower Upper
146 100
111 51.7 20.8 62.4
148 60.6 31.6 95.0



#95
Naphthalene
Concen: 8.038 ug/l
RT: 15.384 min Scan# 2289
Delta R.T. 0.000 min
Lab File: VD072107.D
Acq: 25 Feb 2022 18:27

Tgt Ion:128 Resp: 136341
Ion Ratio Lower Upper
128 100
127 13.6 10.3 15.5
129 9.7 8.7 13.1

