

Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD060321\
 Data File : VD069334.D
 Acq On : 03 Jun 2021 19:32
 Operator : VA/SY
 Sample : M2583-05
 Misc : 5.04G/5.00ml/MSVOA_D/SOIL
 ALS Vial : 19 Sample Multiplier: 1

Instrument :
 MSVOA_D
 ClientSampleId :
 30785

Manual Integrations
 APPROVED

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 6/4/2021 4:32:47 PM

Quant Time: Jun 04 09:38:36 2021
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D060121S.M
 Quant Title : SW846 8260
 QLast Update : Wed Jun 02 02:17:36 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Pentafluorobenzene	7.985	168	335983	50.000	ug/l	0.00
34) 1,4-Difluorobenzene	8.867	114	631861	50.000	ug/l	0.00
63) Chlorobenzene-d5	11.643	117	239759	50.000	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.561	152	59468	50.000	ug/l	# 0.00
System Monitoring Compounds						
33) 1,2-Dichloroethane-d4	8.337	65	187664	58.212	ug/l	0.00
Spiked Amount 50.000	Range 50 - 163		Recovery = 116.420%			
35) Dibromofluoromethane	7.920	113	217187	54.735	ug/l	0.00
Spiked Amount 50.000	Range 54 - 147		Recovery = 109.480%			
50) Toluene-d8	10.355	98	1266306	87.762	ug/l	0.02
Spiked Amount 50.000	Range 49 - 140		Recovery = 175.520%#			
62) 4-Bromofluorobenzene	12.620	95	227643	48.148	ug/l	0.00
Spiked Amount 50.000	Range 25 - 144		Recovery = 96.300%			
Target Compounds					Qvalue	
11) Tert butyl alcohol	5.226	59	684767	3840.731	ug/l #	73
16) Acetone	4.126	43	72016480m	128010.236	ug/l	
17) Carbon Disulfide	4.361	76	139026	12.476	ug/l	96
18) Methyl Acetate	4.720	43	1177097	773.169	ug/l	97
22) Diisopropyl ether	6.367	45	459958	58.900	ug/l #	95
25) 2-Butanone	7.208	43	1733407	2341.539	ug/l	97
29) Tetrahydrofuran	7.567	42	25845	60.741	ug/l #	62
31) Cyclohexane	7.979	56	21177728	4134.217	ug/l #	74
37) Ethyl Acetate	7.296	43	396469	190.118	ug/l #	91
39) Methylcyclohexane	9.355	83	22955892	3653.794	ug/l #	87
40) Benzene	8.343	78	26477564m	1484.375	ug/l	
52) Toluene	10.390	92	49285297m	4377.500	ug/l	
64) Tetrachloroethene	10.879	164	91173	54.632	ug/l	92
67) Ethyl Benzene	11.731	91	23940286m	2844.017	ug/l	
68) m/p-Xylenes	11.837	106	28664695m	8690.343	ug/l	
69) o-Xylene	12.173	106	20003815	6857.029	ug/l #	1
73) Isopropylbenzene	12.478	105	5915616	1453.508	ug/l	98
78) n-propylbenzene	12.814	91	15521501	3109.616	ug/l	87
80) 1,3,5-Trimethylbenzene	12.955	105	14857465	4310.429	ug/l	88
81) trans-1,4-Dichloro-2-b...	12.537	75	40949m	175.628	ug/l	
83) tert-Butylbenzene	13.231	119	41497m	14.376	ug/l	
84) 1,2,4-Trimethylbenzene	13.255	105	23100575m	6738.799	ug/l	
85) sec-Butylbenzene	13.396	105	1965992	461.435	ug/l #	68
86) p-Isopropyltoluene	13.514	119	1122192	301.229	ug/l	99
89) n-Butylbenzene	13.837	91	2190235	628.383	ug/l #	71
95) Naphthalene	15.390	128	2429548	1121.442	ug/l	98

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

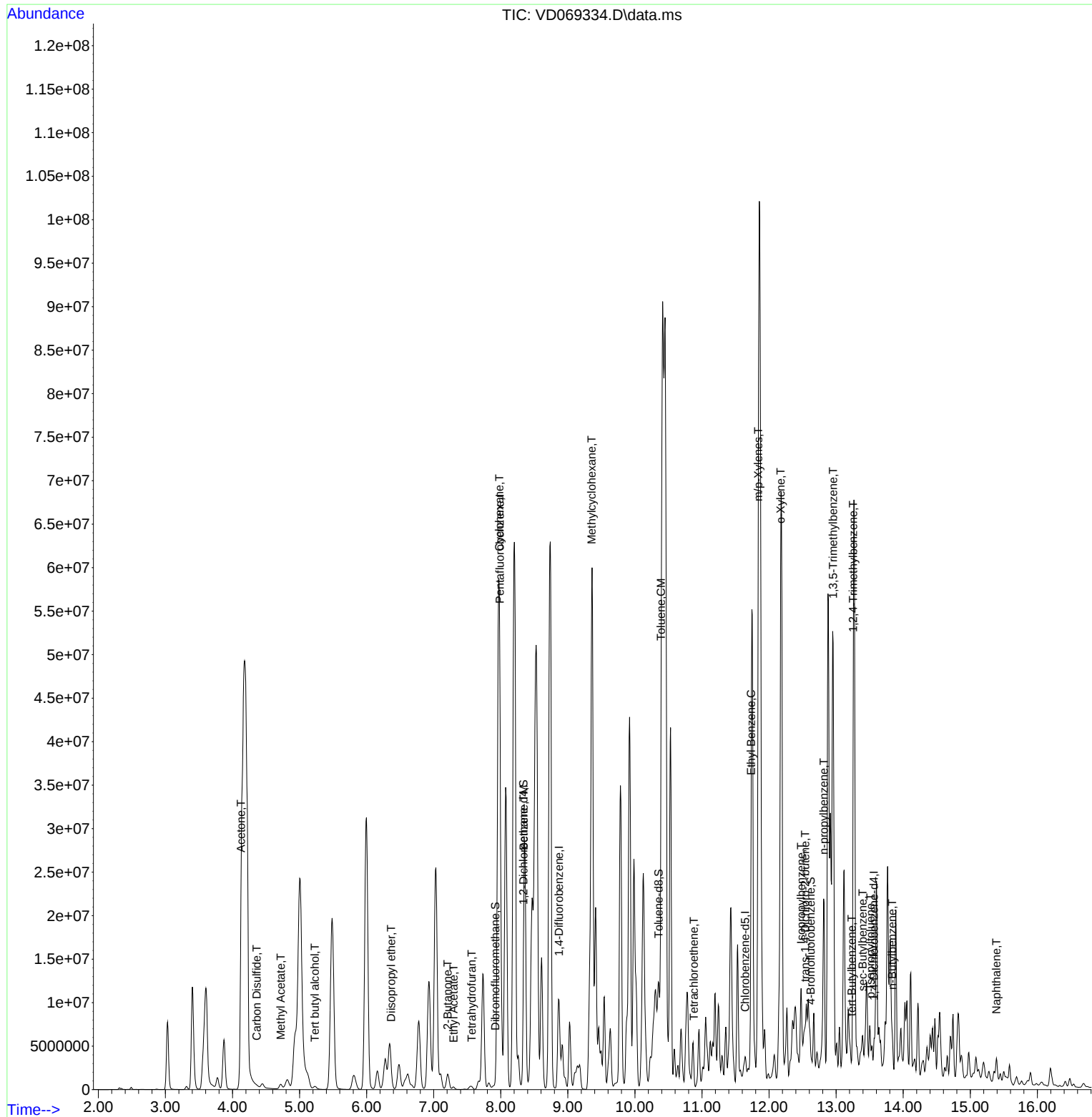
Data Path : Z:\voasrv\HPCHEM1\MSVOA_D\Data\VD060321\
Data File : VD069334.D
Acq On : 03 Jun 2021 19:32
Operator : VA/SY
Sample : M2583-05
Misc : 5.04G/5.00ml/MSVOA_D/SOIL
ALS Vial : 19 Sample Multiplier: 1

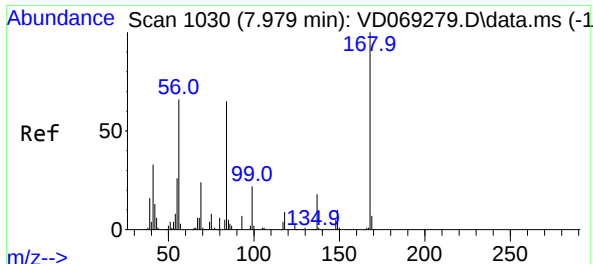
Instrument :
MSVOA_D
ClientSampleId :
30785

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Quant Time: Jun 04 09:38:36 2021
Quant Method : Z:\voasrv\HPCHEM1\MSVOA_D\Method\82D060121S.M
Quant Title : SW846 8260
QLast Update : Wed Jun 02 02:17:36 2021
Response via : Initial Calibration





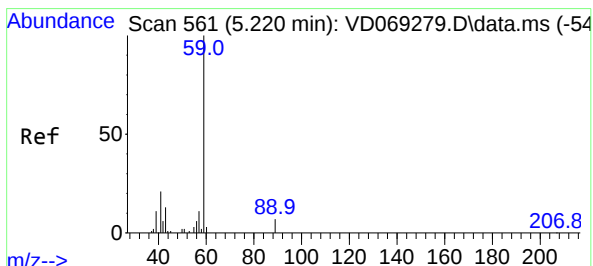
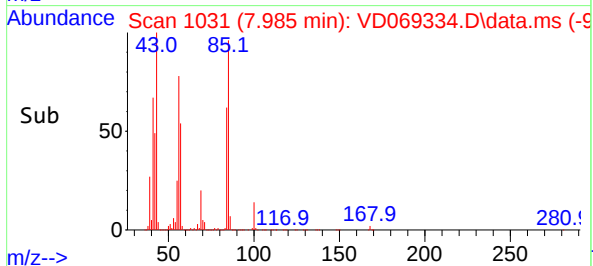
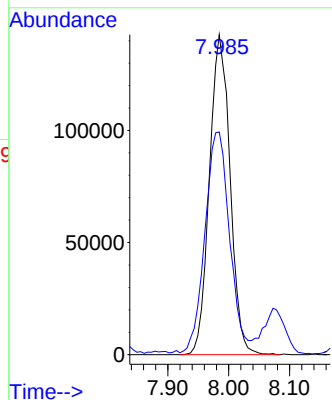
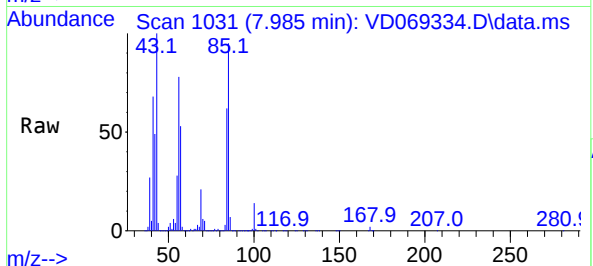
#1
Pentafluorobenzene
Concen: 50.000 ug/l
RT: 7.985 min Scan# 1031
Delta R.T. 0.006 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion:168 Resp: 335983
Ion Ratio Lower Upper
168 100
99 69.0 46.2 69.2

Instrument :
MSVOA_D
ClientSampled :
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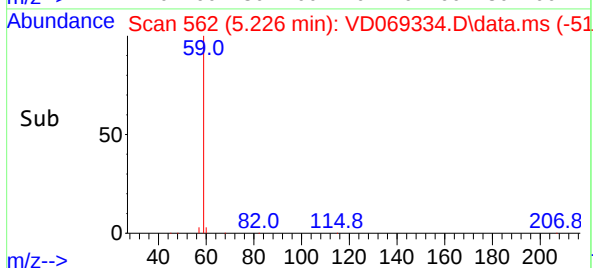
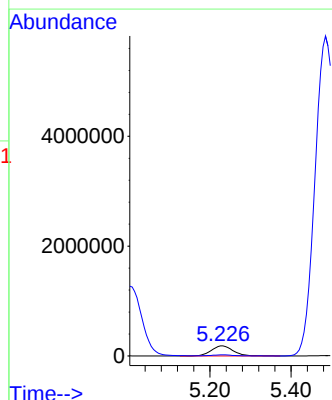
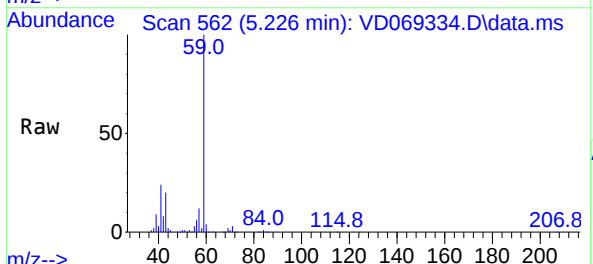
Manual Integrations
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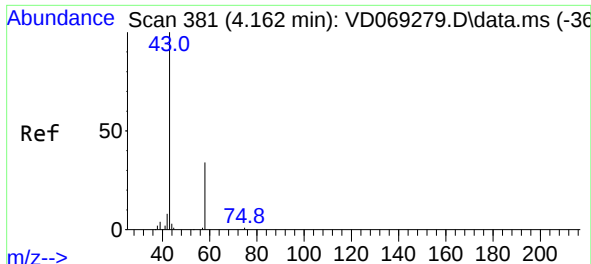
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#11
Tert butyl alcohol
Concen: 3840.731 ug/l
RT: 5.226 min Scan# 562
Delta R.T. 0.006 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

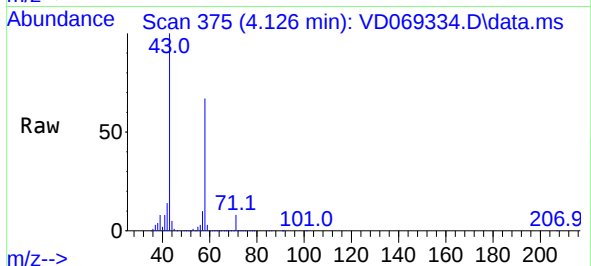
Tgt Ion: 59 Resp: 684767
Ion Ratio Lower Upper
59 100
57 0.0 7.8 11.8#





#16
Acetone
Concen: 128010.236 ug/l m
RT: 4.126 min Scan# 375
Delta R.T. -0.036 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

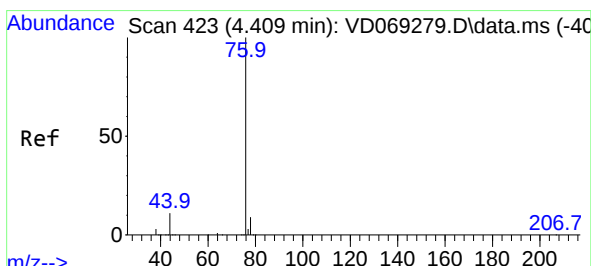
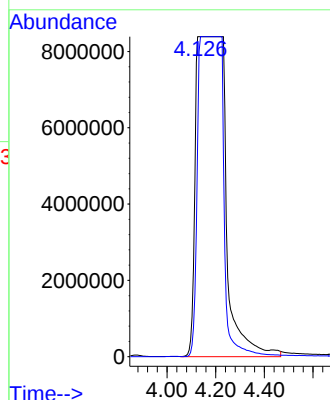
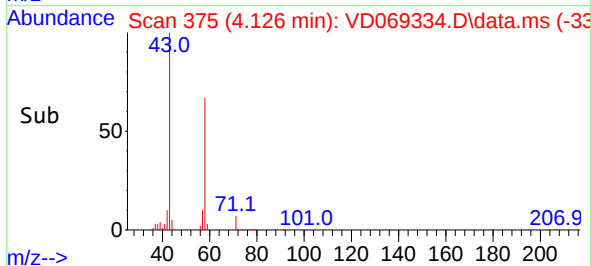
Instrument :
MSVOA_D
ClientSampleId :
30785



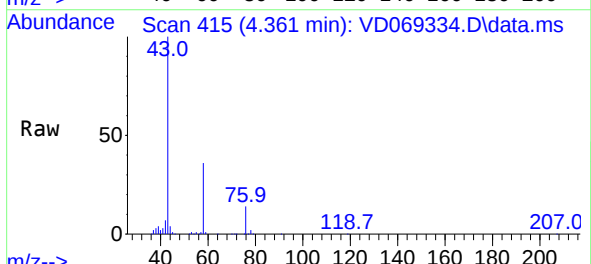
Tgt Ion: 43 Resp: 72016480
Ion Ratio Lower Upper
43 100
58 66.9 27.5 41.3#

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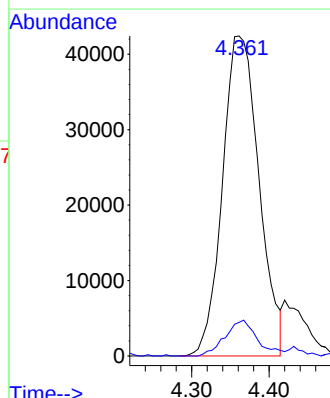
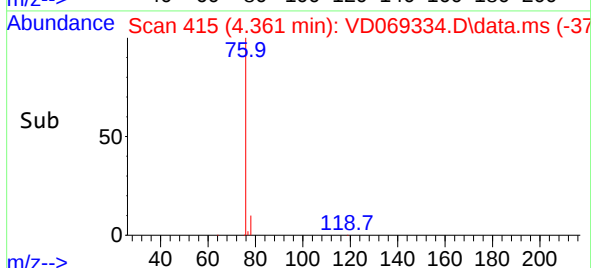
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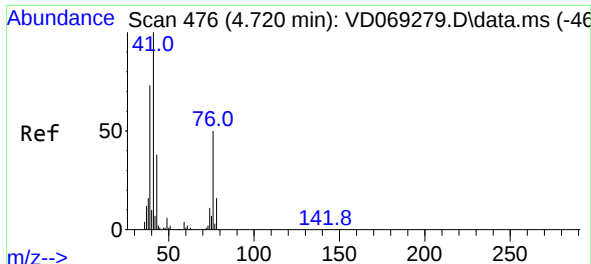


#17
Carbon Disulfide
Concen: 12.476 ug/l
RT: 4.361 min Scan# 415
Delta R.T. -0.047 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32



Tgt Ion: 76 Resp: 139026
Ion Ratio Lower Upper
76 100
78 10.5 7.4 11.0





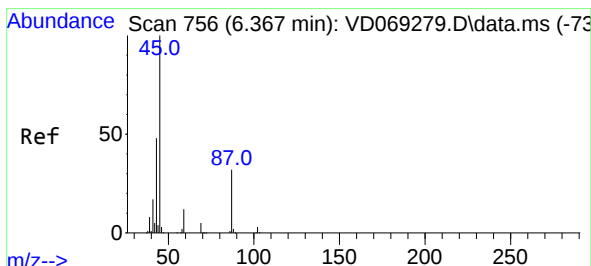
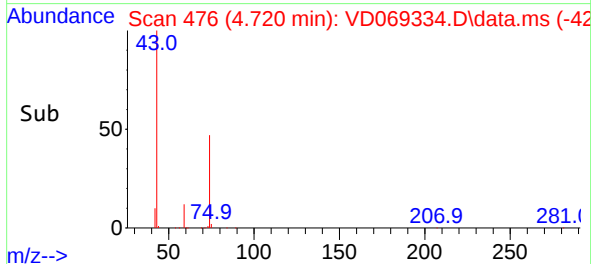
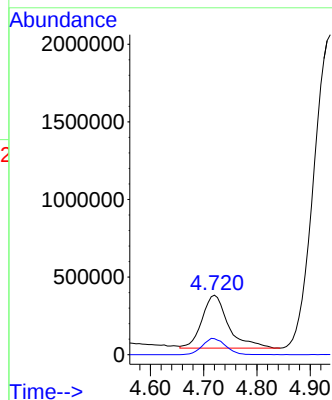
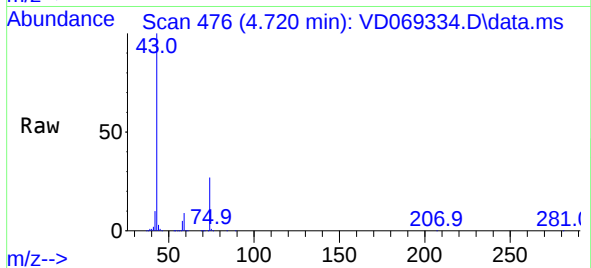
#18
Methyl Acetate
Concen: 773.169 ug/l
RT: 4.720 min Scan# 476
Delta R.T. -0.000 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion: 43 Resp: 1177097
Ion Ratio Lower Upper
43 100
74 27.1 22.8 34.2

Instrument :
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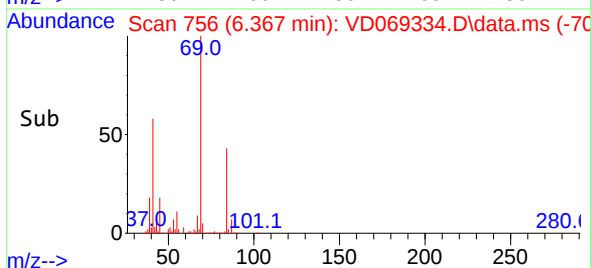
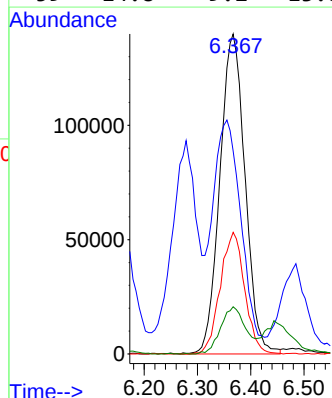
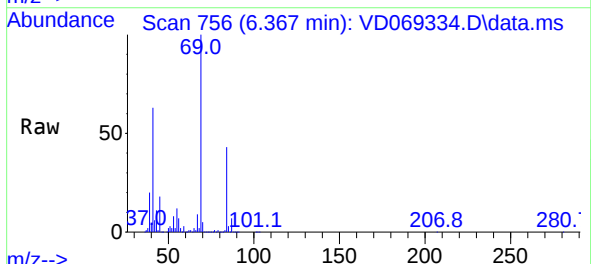
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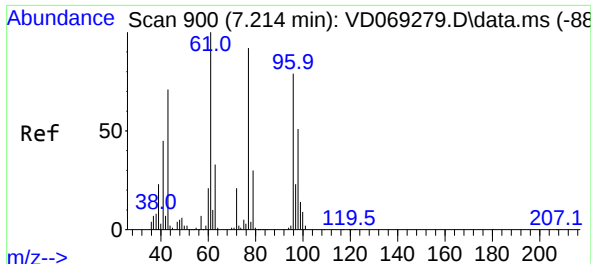
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#22
Diisopropyl ether
Concen: 58.900 ug/l
RT: 6.367 min Scan# 756
Delta R.T. -0.000 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

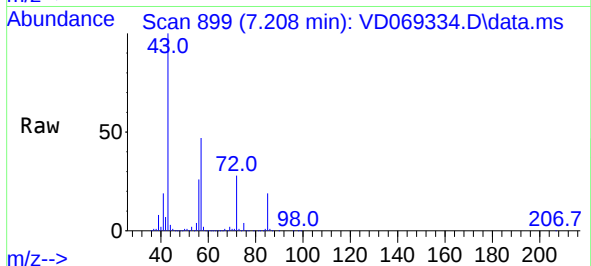
Tgt Ion: 45 Resp: 459958
Ion Ratio Lower Upper
45 100
43 47.6 38.7 58.1
87 38.0 25.6 38.4
59 14.8 9.2 13.8#





#25
2-Butanone
Concen: 2341.539 ug/l
RT: 7.208 min Scan# 899
Delta R.T. -0.006 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

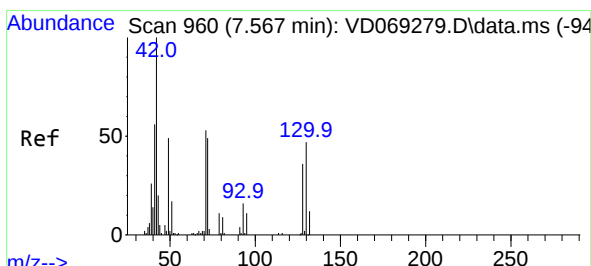
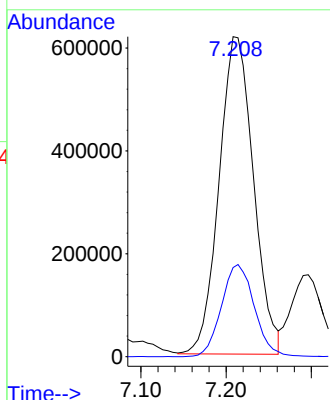
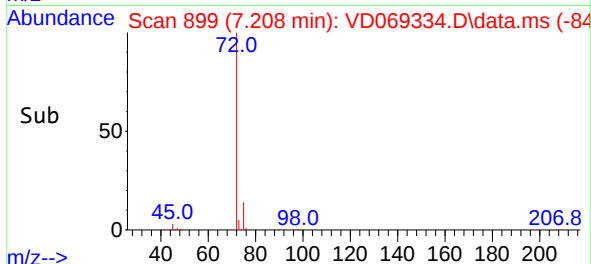
Instrument :
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ClientSampled :
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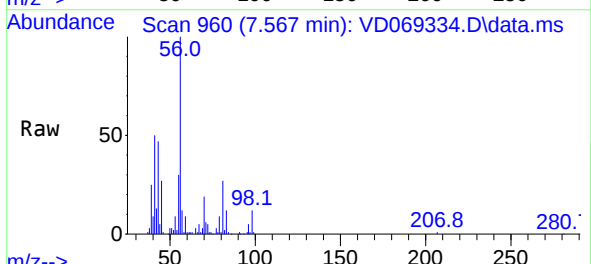
Tgt Ion: 43 Resp: 1733407
Ion Ratio Lower Upper
43 100
72 28.2 23.9 35.9

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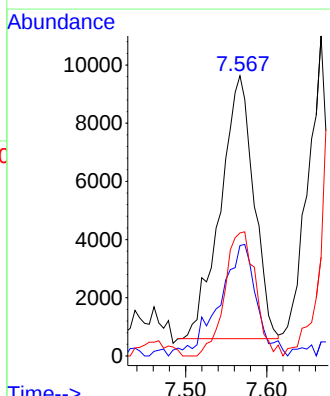
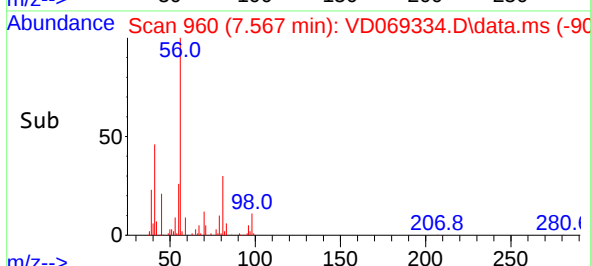
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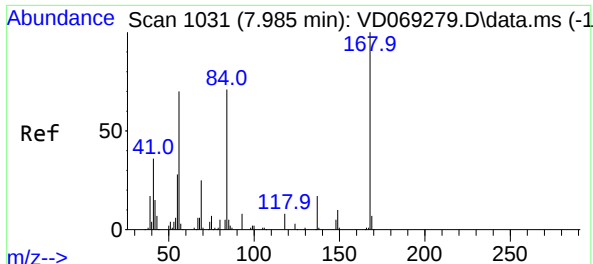


#29
Tetrahydrofuran
Concen: 60.741 ug/l
RT: 7.567 min Scan# 960
Delta R.T. -0.000 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

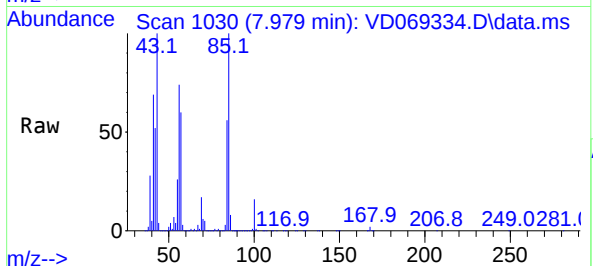


Tgt Ion: 42 Resp: 25845
Ion Ratio Lower Upper
42 100
72 47.2 41.0 61.6
71 0.0 38.9 58.3#



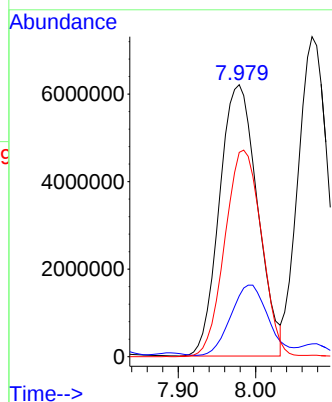


#31
Cyclohexane
Concen: 4134.217 ug/l
RT: 7.979 min Scan# 1030
Delta R.T. -0.006 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32



Tgt Ion: 56 Resp: 21177728

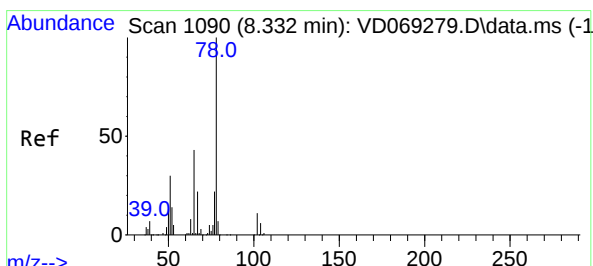
Ion	Ratio	Lower	Upper
56	100		
69	21.3	29.0	43.4#
84	75.3	81.1	121.7#



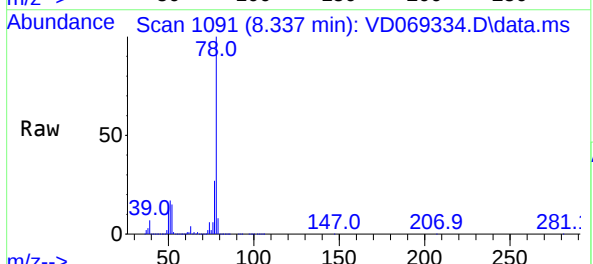
Instrument :
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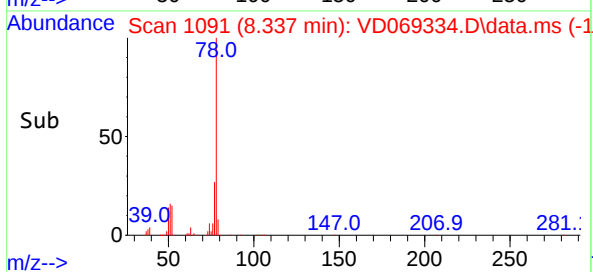
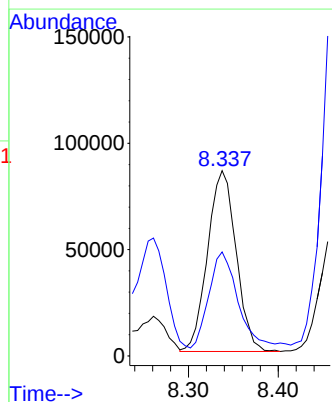


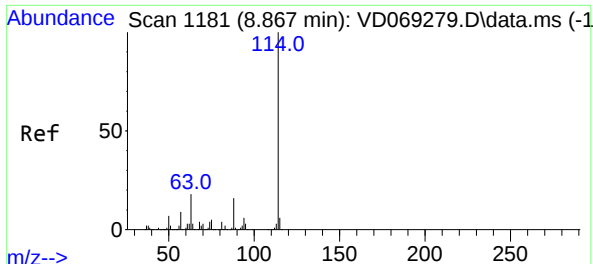
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1,2-Dichloroethane-d4
Concen: 58.212 ug/l
RT: 8.337 min Scan# 1091
Delta R.T. 0.006 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32



Tgt Ion: 65 Resp: 187664

Ion	Ratio	Lower	Upper
65	100		
67	54.7	0.0	105.8





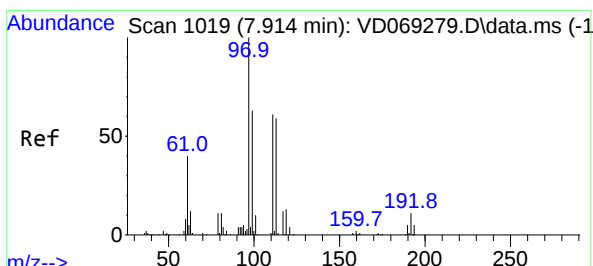
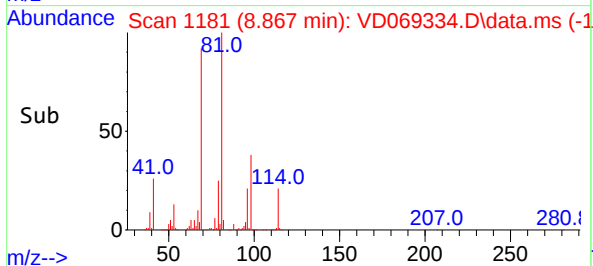
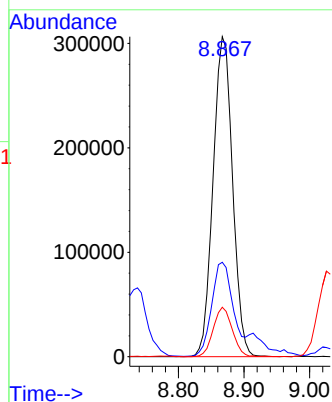
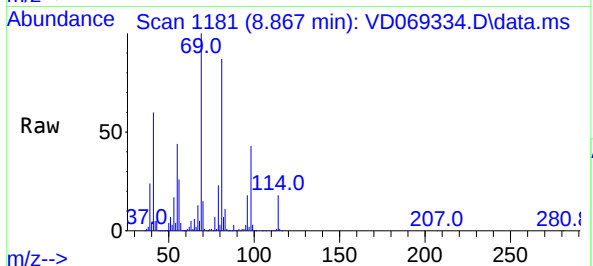
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1,4-Difluorobenzene
Concen: 50.000 ug/l
RT: 8.867 min Scan# 1181
Delta R.T. -0.000 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion:	114	Resp:	631861
Ion Ratio	Lower	Upper	
114	100		
63	29.3	0.0	35.6
88	15.4	0.0	31.2

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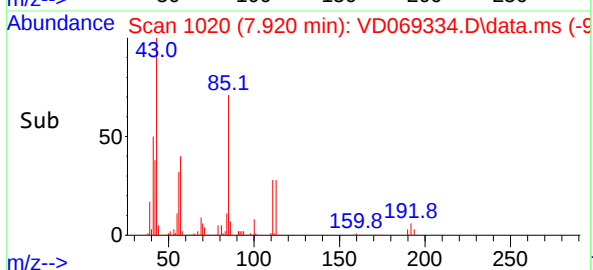
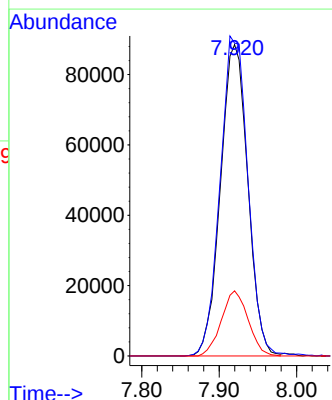
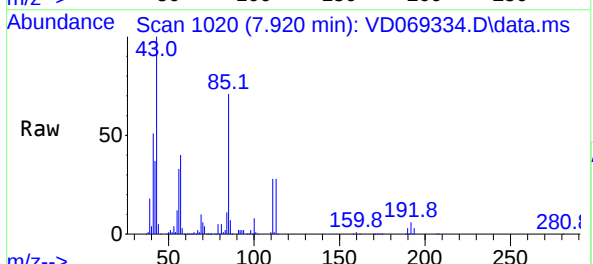
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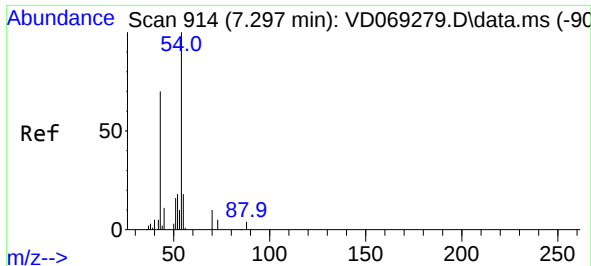
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#35
Dibromofluoromethane
Concen: 54.735 ug/l
RT: 7.920 min Scan# 1020
Delta R.T. 0.005 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion:	113	Resp:	217187
Ion Ratio	Lower	Upper	
113	100		
111	104.7	83.0	124.6
192	20.5	15.1	22.7





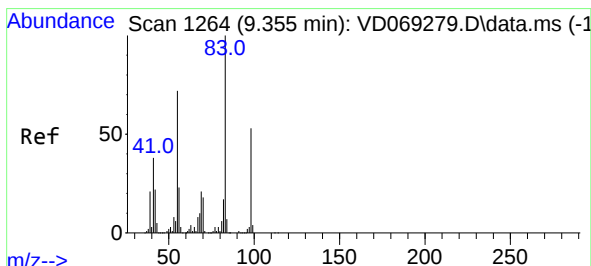
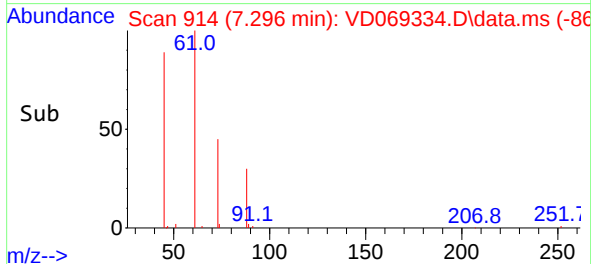
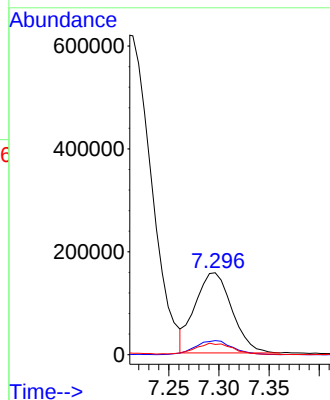
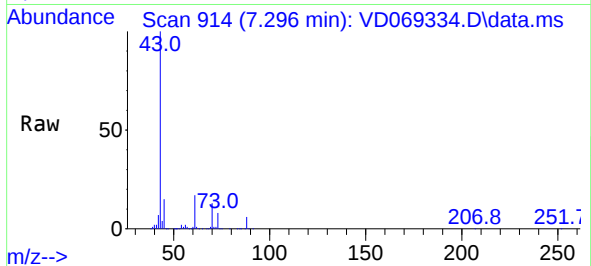
#37
Ethyl Acetate
Concen: 190.118 ug/l
RT: 7.296 min Scan# 914
Delta R.T. -0.000 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion: 43 Resp: 396469
Ion Ratio Lower Upper
43 100
61 17.9 11.0 16.6#
70 15.1 9.7 14.5#

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30785

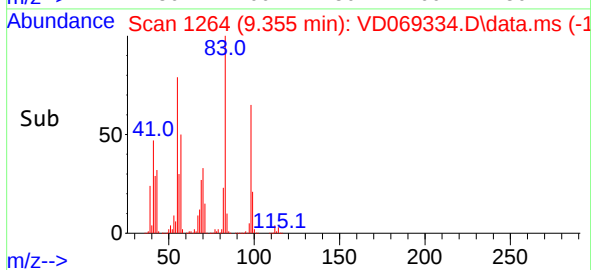
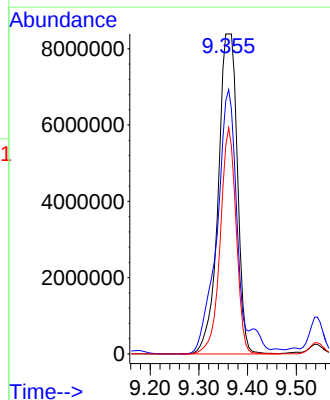
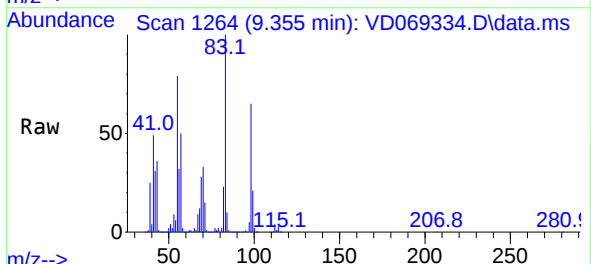
Manual Integrations
APPROVED

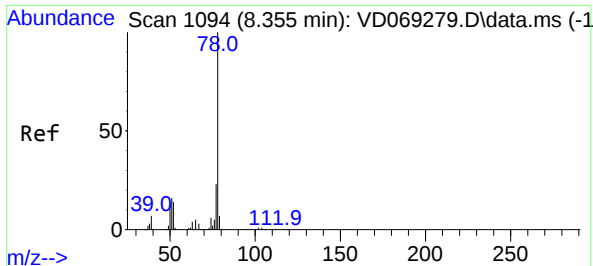
MMDadoda
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#39
Methylcyclohexane
Concen: 3653.794 ug/l
RT: 9.355 min Scan# 1264
Delta R.T. -0.000 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion: 83 Resp: 22955892
Ion Ratio Lower Upper
83 100
55 79.2 57.4 86.2
98 65.1 42.2 63.2#





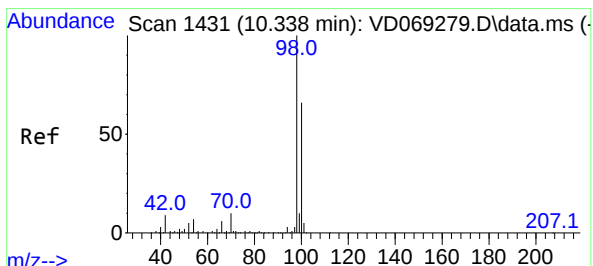
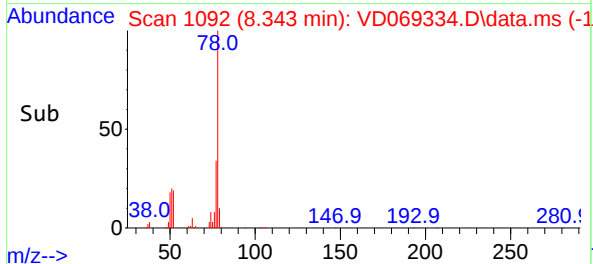
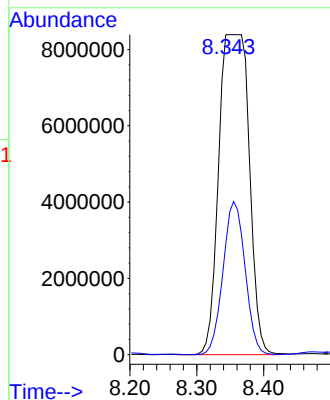
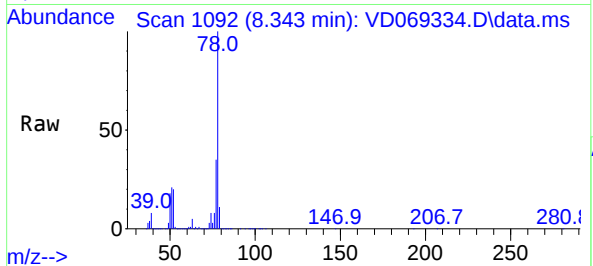
#40
Benzene
Concen: 1484.375 ug/l m
RT: 8.343 min Scan# 1092
Delta R.T. -0.012 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion: 78 Resp: 26477564
Ion Ratio Lower Upper
78 100
77 34.7 18.7 28.1#

Instrument :
MSVOA_D
ClientSampled :
30785

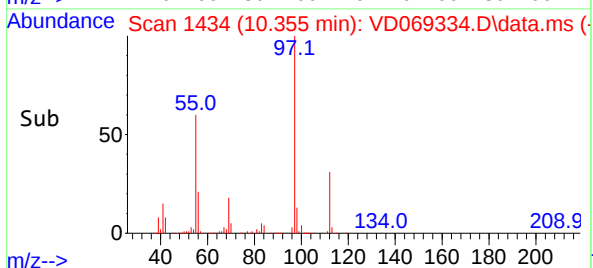
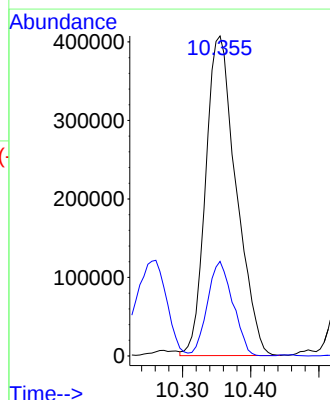
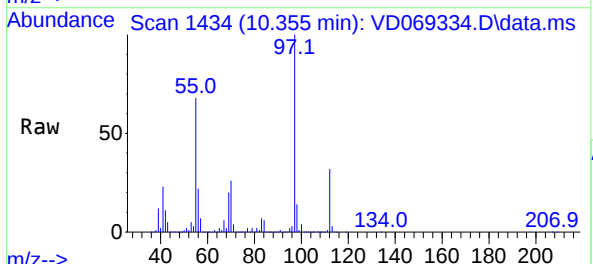
Manual Integrations
APPROVED

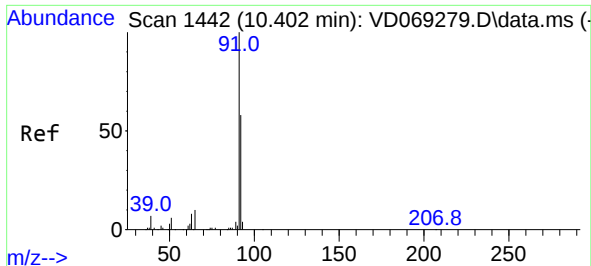
MMDadoda
6/4/2021 4:32:47 PM



#50
Toluene-d8
Concen: 87.762 ug/l
RT: 10.355 min Scan# 1434
Delta R.T. 0.017 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion: 98 Resp: 1266306
Ion Ratio Lower Upper
98 100
100 24.6 52.1 78.1#





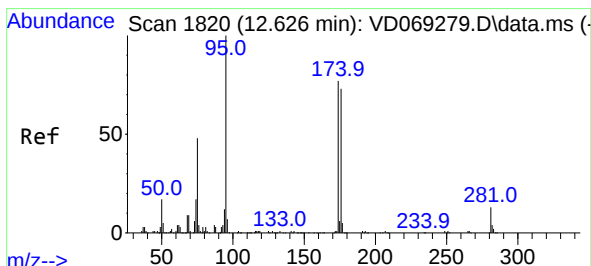
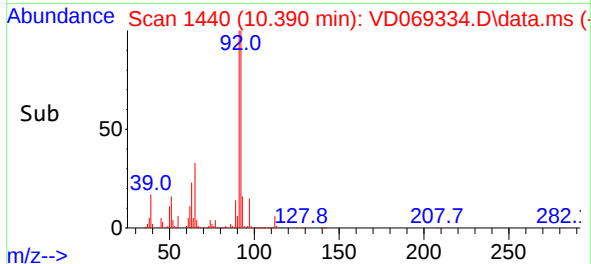
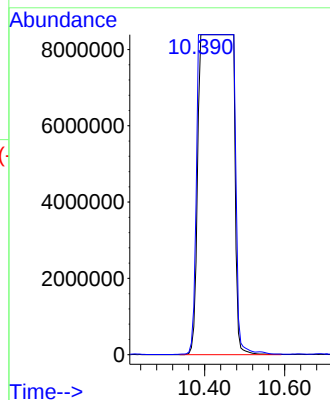
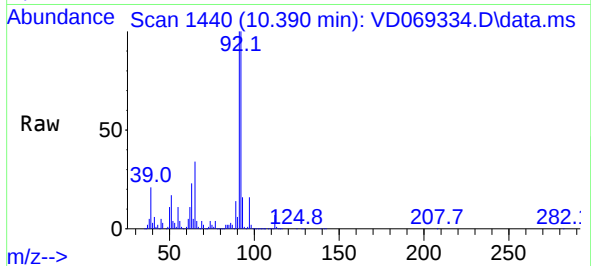
#52
Toluene
Concen: 4377.500 ug/l m
RT: 10.390 min Scan# 1440
Delta R.T. -0.012 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion: 92 Resp:49285297
Ion Ratio Lower Upper
92 100
91 0.0 138.4 207.6#

Instrument :
MSVOA_D
ClientSampled :
30785

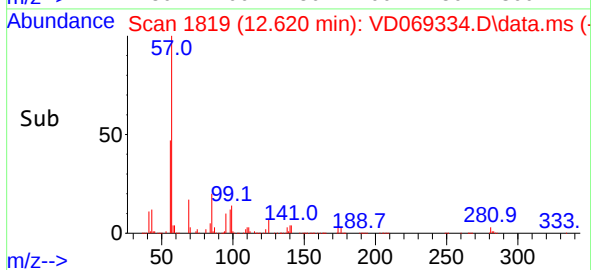
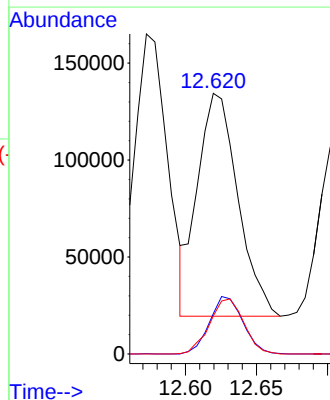
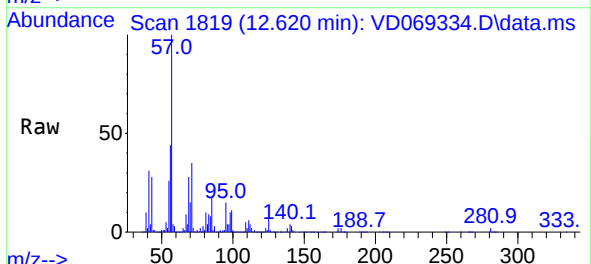
Manual Integrations
APPROVED

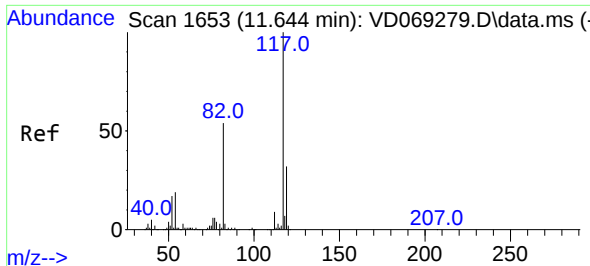
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#62
4-Bromofluorobenzene
Concen: 48.148 ug/l
RT: 12.620 min Scan# 1819
Delta R.T. -0.006 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion: 95 Resp: 227643
Ion Ratio Lower Upper
95 100
174 21.3 0.0 162.8
176 20.9 0.0 154.4





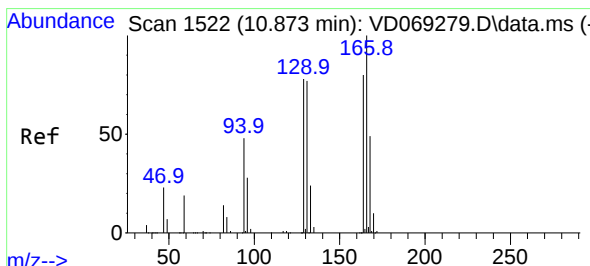
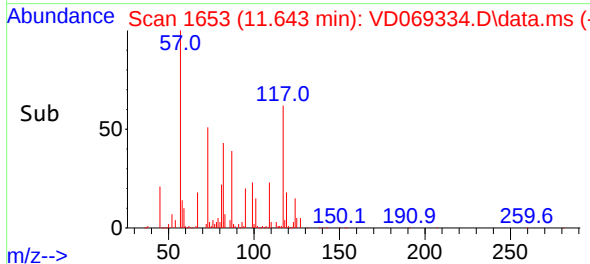
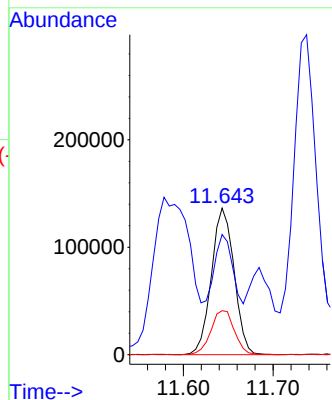
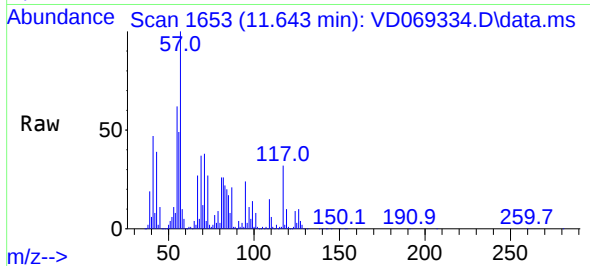
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.643 min Scan# 1653
Delta R.T. -0.000 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion:	117	Resp:	239759
Ion	Ratio	Lower	Upper
117	100		
82	53.5	43.3	64.9
119	30.0	25.3	37.9

Instrument :
MSVOA_D
ClientSampleId :
30785

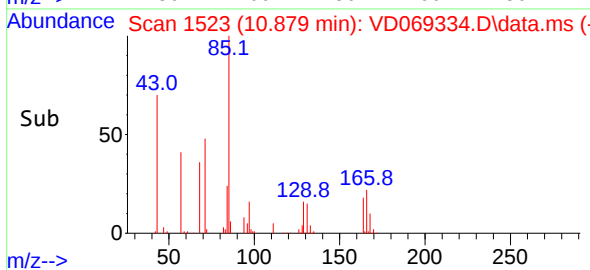
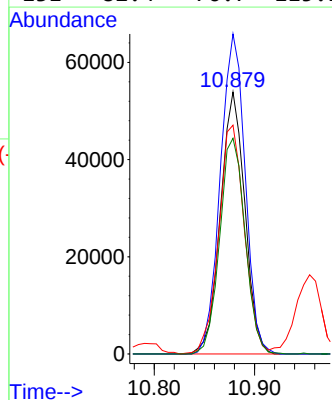
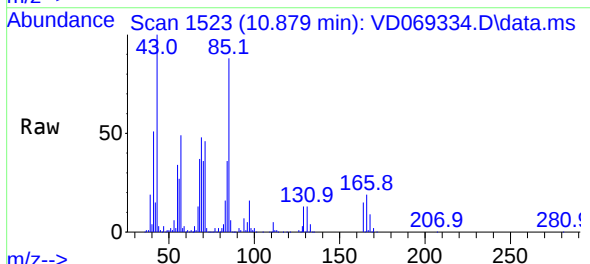
Manual Integrations
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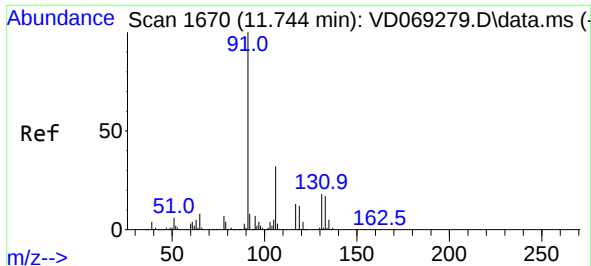
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#64
Tetrachloroethene
Concen: 54.632 ug/l
RT: 10.879 min Scan# 1523
Delta R.T. 0.006 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

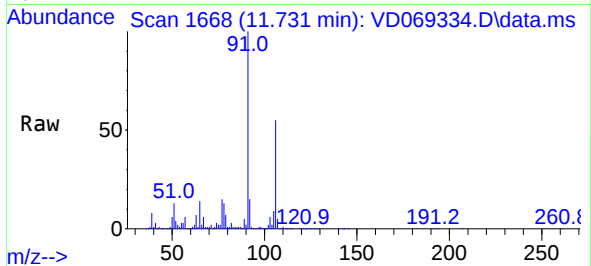
Tgt Ion:	164	Resp:	91173
Ion	Ratio	Lower	Upper
164	100		
166	122.2	100.2	150.4
129	87.3	78.1	117.1
131	82.4	76.7	115.1





#67
Ethyl Benzene
Concen: 2844.017 ug/l m
RT: 11.731 min Scan# 1668
Delta R.T. -0.012 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

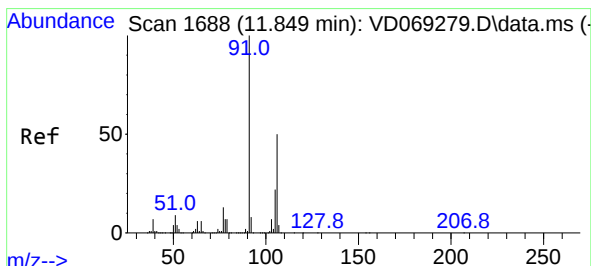
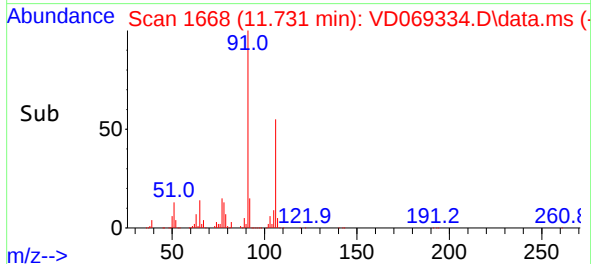
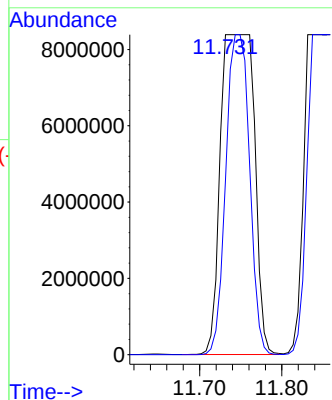
Instrument :
MSVOA_D
ClientSampled :
30785



Tgt Ion: 91 Resp:23940286
Ion Ratio Lower Upper
91 100
106 54.6 25.9 38.9#

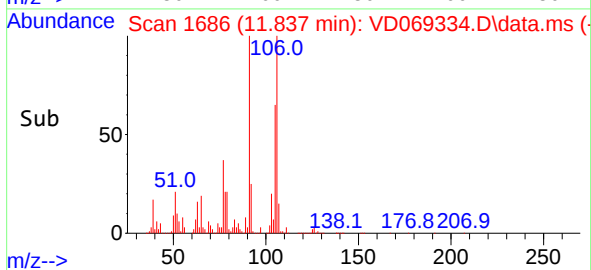
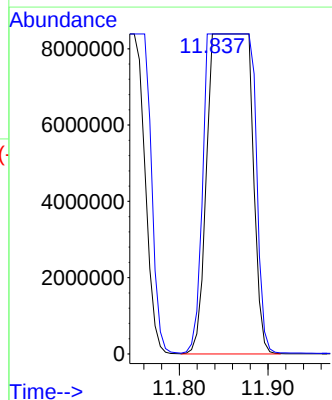
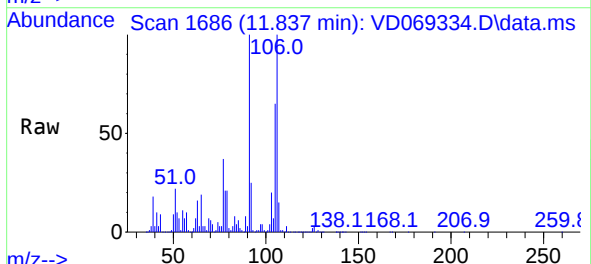
Manual Integrations
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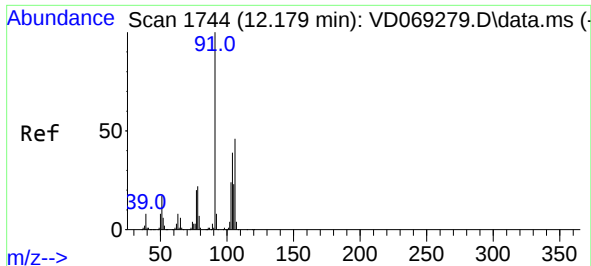
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#68
m/p-Xylenes
Concen: 8690.343 ug/l m
RT: 11.837 min Scan# 1686
Delta R.T. -0.012 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion:106 Resp:28664695
Ion Ratio Lower Upper
106 100
91 0.0 158.3 237.5#





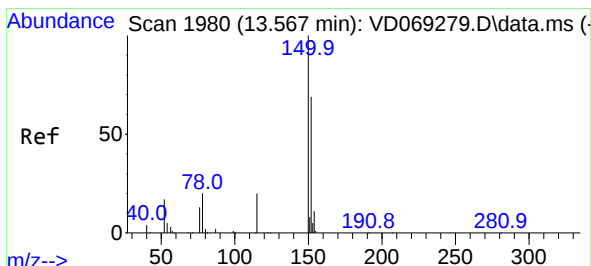
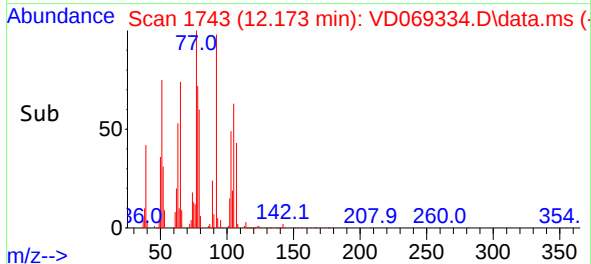
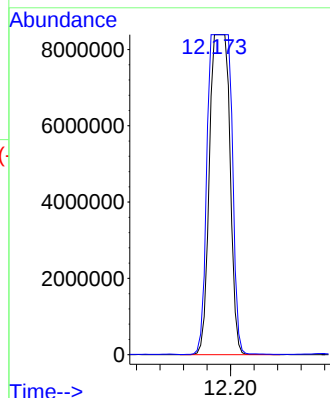
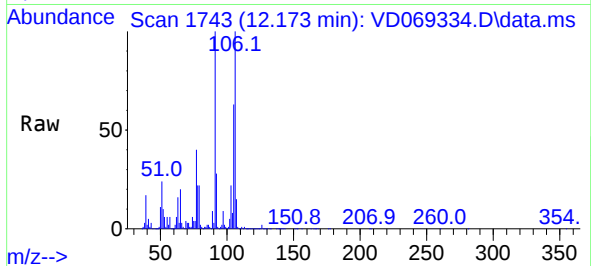
#69
o-Xylene
Concen: 6857.029 ug/l
RT: 12.173 min Scan# 1743
Delta R.T. -0.006 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion:106 Resp:20003815
Ion Ratio Lower Upper
106 100
91 0.0 105.5 316.4#

Instrument :
MSVOA_D
ClientSampled :
30785

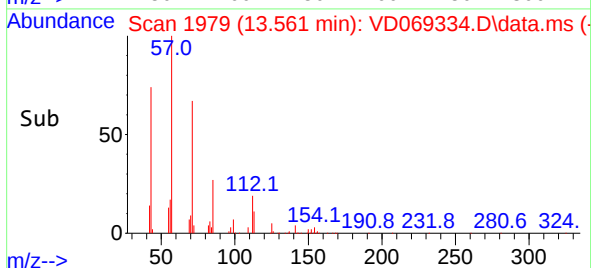
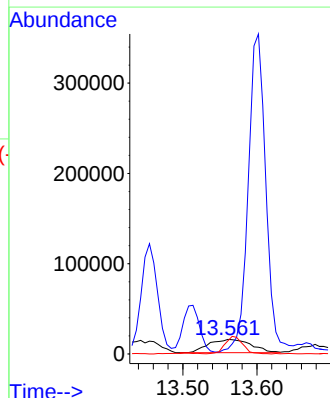
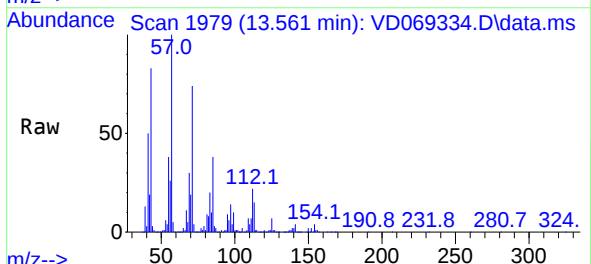
Manual Integrations
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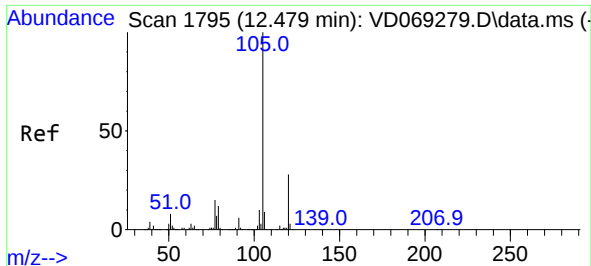
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#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.561 min Scan# 1979
Delta R.T. -0.006 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion:152 Resp: 59468
Ion Ratio Lower Upper
152 100
115 0.0 29.4 88.3#
150 54.6 0.0 355.0





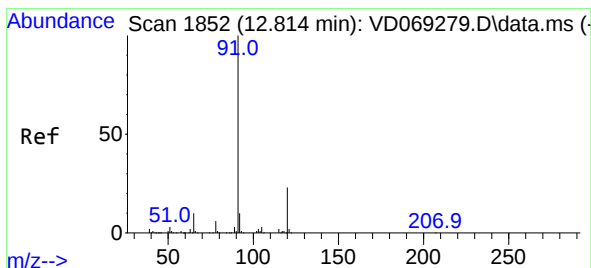
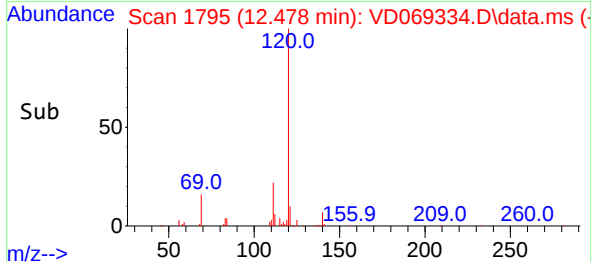
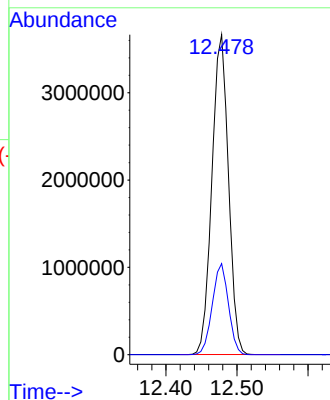
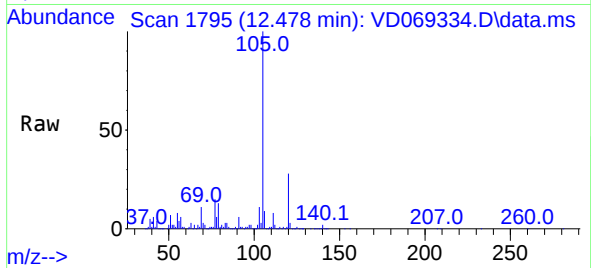
#73
Isopropylbenzene
Concen: 1453.508 ug/l
RT: 12.478 min Scan# 1795
Delta R.T. -0.000 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion:105 Resp: 5915616
Ion Ratio Lower Upper
105 100
120 27.8 13.5 40.5

Instrument :
MSVOA_D
ClientSampled :
30785

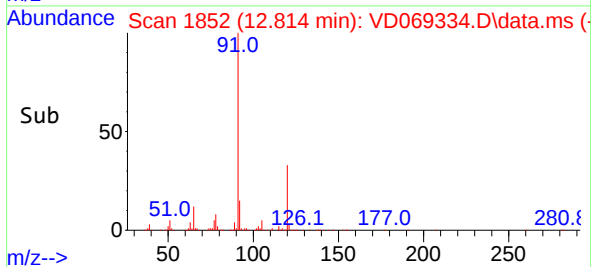
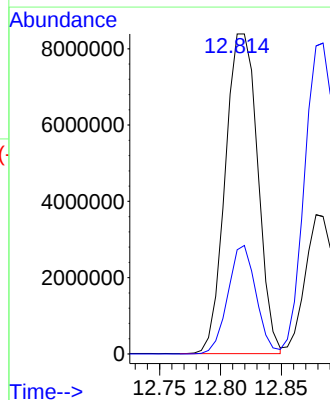
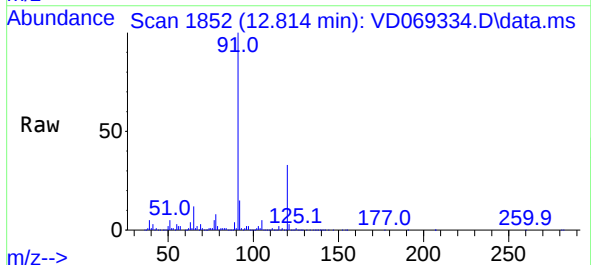
Manual Integrations
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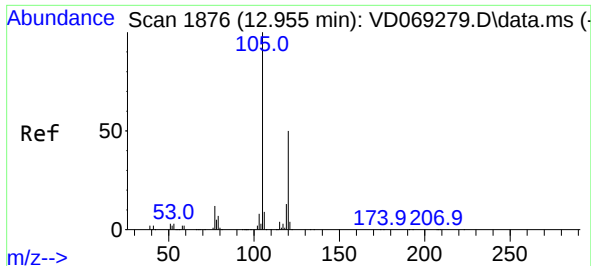
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#78
n-propylbenzene
Concen: 3109.616 ug/l
RT: 12.814 min Scan# 1852
Delta R.T. -0.000 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion: 91 Resp:15521501
Ion Ratio Lower Upper
91 100
120 29.6 11.6 34.8



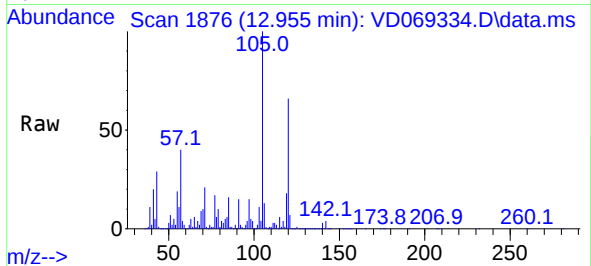


#80
1,3,5-Trimethylbenzene
Concen: 4310.429 ug/l
RT: 12.955 min Scan# 1876
Delta R.T. -0.000 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

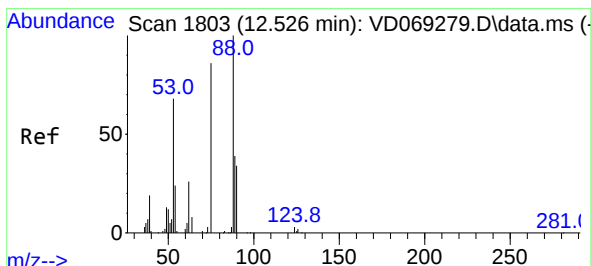
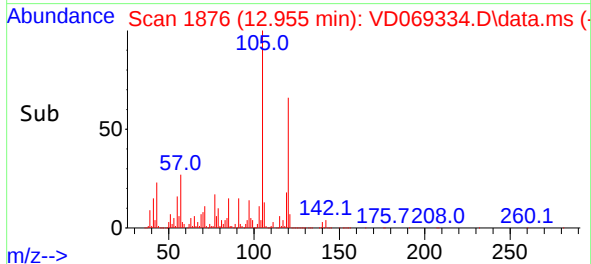
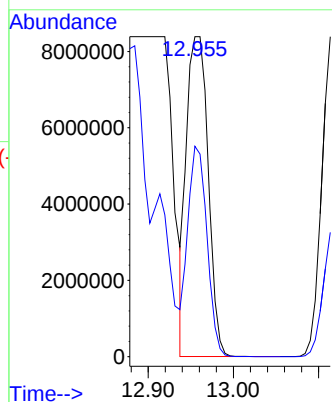
Instrument :
MSVOA_D
ClientSampled :
30785

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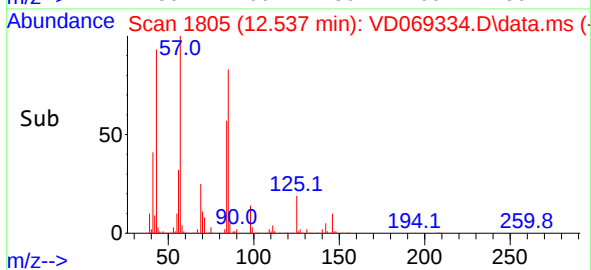
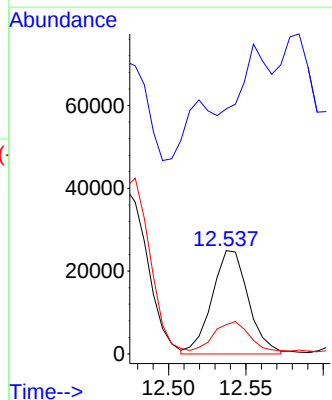
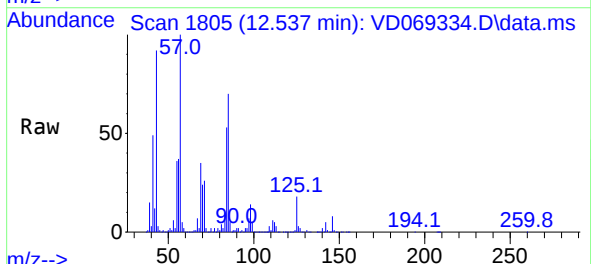


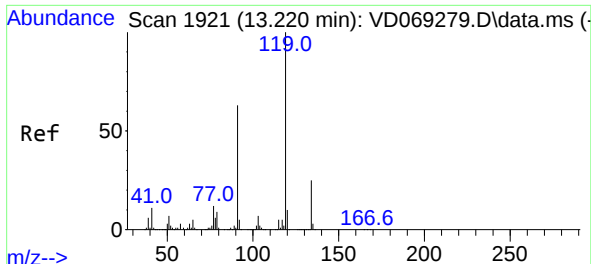
Tgt Ion:105 Resp:14857465
Ion Ratio Lower Upper
105 100
120 58.4 24.9 74.7



#81
trans-1,4-Dichloro-2-butene
Concen: 175.628 ug/l m
RT: 12.537 min Scan# 1805
Delta R.T. 0.011 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion: 75 Resp: 40949
Ion Ratio Lower Upper
75 100
53 0.0 62.6 94.0#
89 0.0 35.6 53.4#





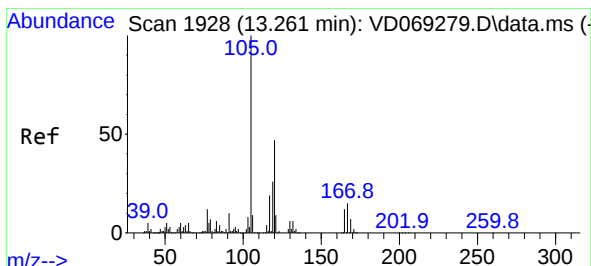
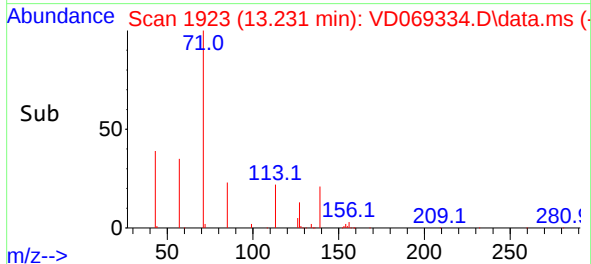
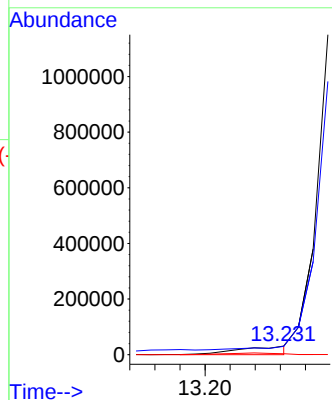
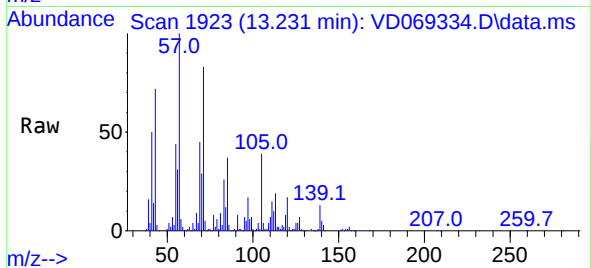
#83
tert-Butylbenzene
Concen: 14.376 ug/l m
RT: 13.231 min Scan# 1923
Delta R.T. 0.011 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

Tgt Ion:119 Resp: 41497
Ion Ratio Lower Upper
119 100
91 14397.3 31.7 95.1#
134 0.0 13.4 40.1#

Instrument :
MSVOA_D
ClientSampled :
30785

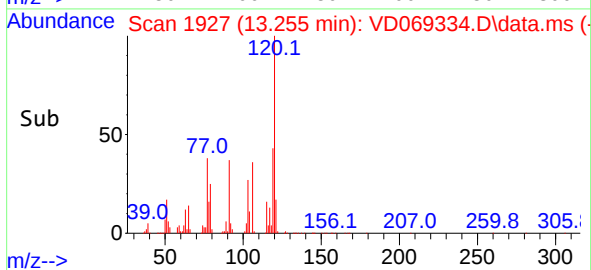
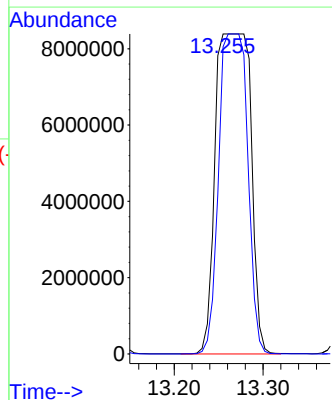
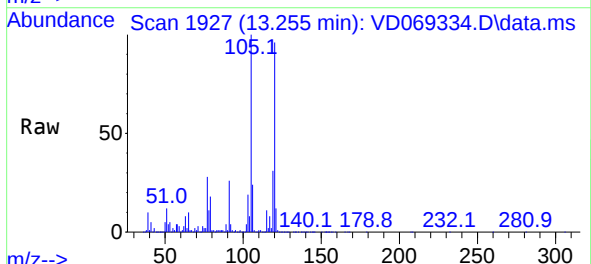
Manual Integrations
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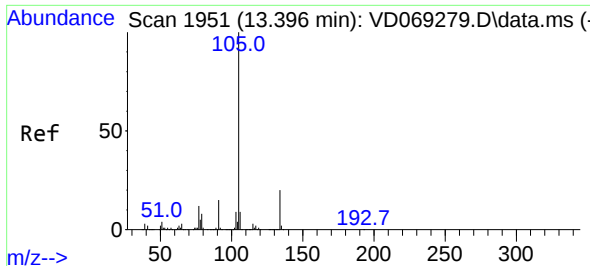
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 6738.799 ug/l m
RT: 13.255 min Scan# 1927
Delta R.T. -0.006 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

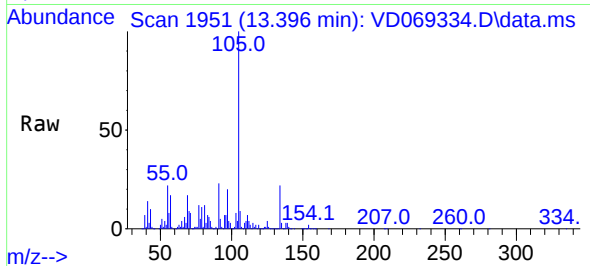
Tgt Ion:105 Resp:23100575
Ion Ratio Lower Upper
105 100
120 23.4 22.6 67.8





#85
 sec-Butylbenzene
 Concen: 461.435 ug/l
 RT: 13.396 min Scan# 1951
 Delta R.T. -0.000 min
 Lab File: VD069334.D
 Acq: 03 Jun 2021 19:32

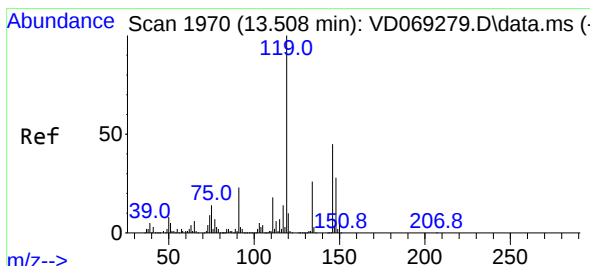
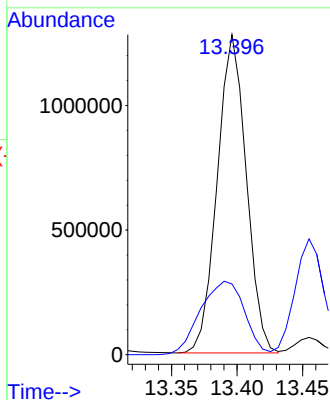
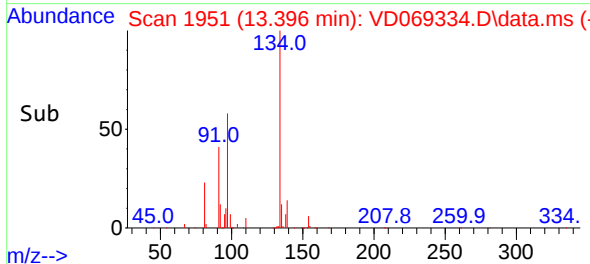
Instrument :
 MSVOA_D
 ClientSampled :
 30785



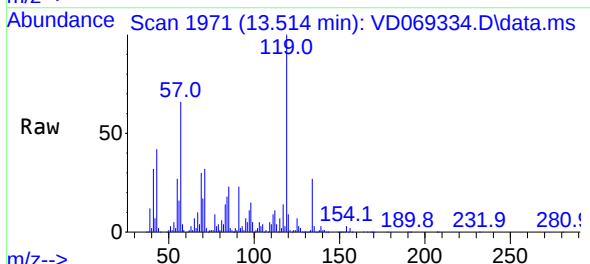
Tgt Ion:105 Resp: 1965992
 Ion Ratio Lower Upper
 105 100
 134 35.0 10.1 30.3#

Manual Integrations
 APPROVED

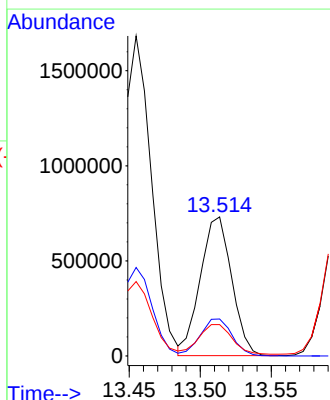
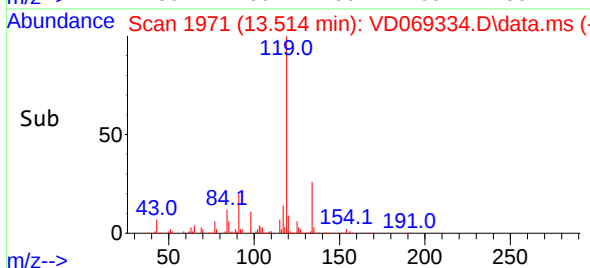
MMDadoda
 6/4/2021 4:32:47 PM

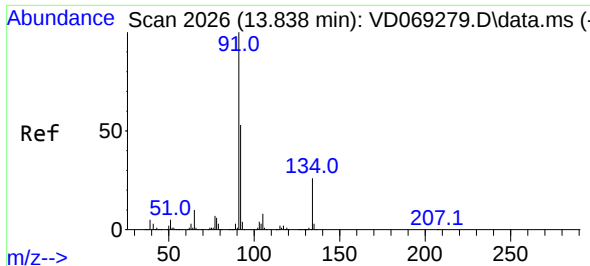


#86
 p-Isopropyltoluene
 Concen: 301.229 ug/l
 RT: 13.514 min Scan# 1971
 Delta R.T. 0.006 min
 Lab File: VD069334.D
 Acq: 03 Jun 2021 19:32



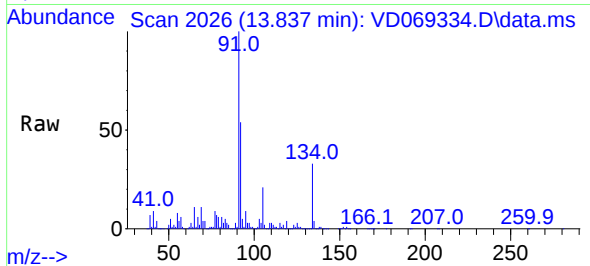
Tgt Ion:119 Resp: 1122192
 Ion Ratio Lower Upper
 119 100
 134 27.1 13.0 39.0
 91 22.2 11.3 33.8





#89
n-Butylbenzene
Concen: 628.383 ug/l
RT: 13.837 min Scan# 2026
Delta R.T. -0.000 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32

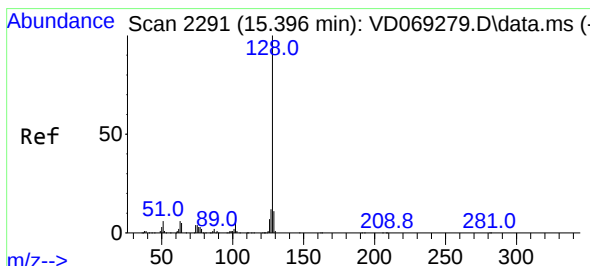
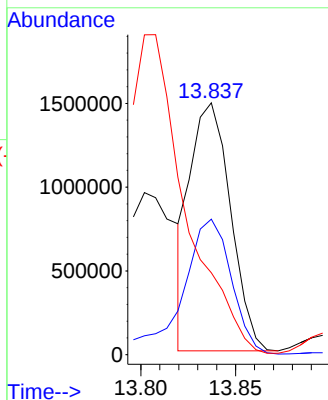
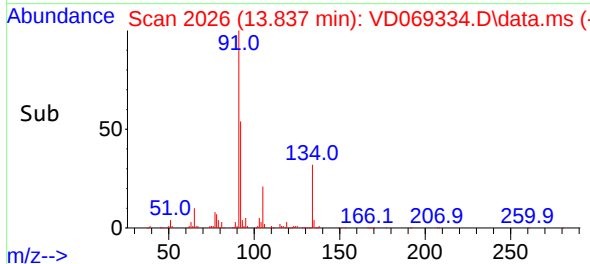
Instrument :
MSVOA_D
ClientSampleId :
30785



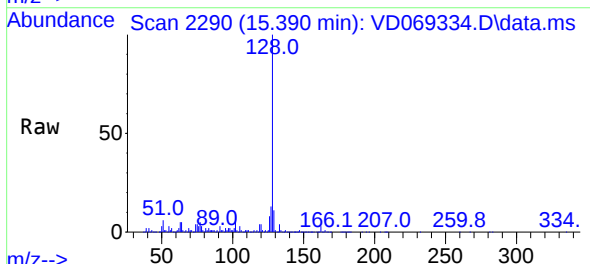
Tgt Ion: 91 Resp: 2190235
Ion Ratio Lower Upper
91 100
92 65.7 26.4 79.2
134 0.0 13.0 38.9#

Manual Integrations
APPROVED

MMDadoda
6/4/2021 4:32:47 PM



#95
Naphthalene
Concen: 1121.442 ug/l
RT: 15.390 min Scan# 2290
Delta R.T. -0.006 min
Lab File: VD069334.D
Acq: 03 Jun 2021 19:32



Tgt Ion:128 Resp: 2429548
Ion Ratio Lower Upper
128 100
127 13.5 10.4 15.6
129 11.7 8.8 13.2

