

Data Path : Z:\voasrv\HPCHEM1\MSVOA_L\Data\VL090821\
 Data File : VL037578.D
 Acq On : 8 Sep 2021 19:08
 Operator : SY/AP
 Sample : M3663-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampled :
 IA-1

Manual Integrations
 APPROVED

MMDadoda
 9/10/2021 10:52:42 AM

Quant Time: Sep 09 09:13:37 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021
 QLast Update : Tue Aug 17 02:13:47 2021
 Response via : Initial Calibration

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

Internal Standards						
1) Bromochloromethane	5.681	49	1532187	10.000	ppbv	0.03
33) 1,4-Difluorobenzene	7.189	114	4581780	10.000	ppbv	0.03
55) Chlorobenzene-d5	12.098	117	3907499	10.000	ppbv	0.04
System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.429	95	2875103	10.357	ppbv	0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.600%
Target Compounds						
					Qvalue	
2) Dichlorodifluoromethane	3.050	85	32571	0.132	ppbv	96
4) Chloromethane	3.147	50	53250m	0.508	ppbv	
9) Propene	3.025	41	343136m	3.269	ppbv	
10) Heptane	8.143	43	43300m	0.179	ppbv	
11) Trichlorofluoromethane	3.960	101	100598	0.436	ppbv	96
13) Ethanol	3.613	45	7216795	706.485	ppbv	92
15) Acetone	3.857	43	2038462	13.073	ppbv	94
17) tert-Butyl alcohol	4.308	59	88906m	0.624	ppbv	
19) Isopropyl Alcohol	3.976	45	15612796	174.768	ppbv #	99
20) Methylene Chloride	4.353	84	124474	1.594	ppbv	90
26) Hexane	5.700	57	464010	2.397	ppbv #	62
27) Carbon Disulfide	4.562	76	49036	0.284	ppbv #	82
29) Chloroform	5.764	83	178175	0.650	ppbv	98
30) Cyclohexane	7.144	84	42656m	0.265	ppbv	
34) 2-Butanone	5.259	43	96605	0.516	ppbv #	87
35) Carbon Tetrachloride	7.031	117	17975m	0.066	ppbv	
36) Benzene	6.906	78	130356m	0.338	ppbv	
38) Trichloroethene	7.848	130	11990m	0.076	ppbv	
44) 2,2,4-Trimethylpentane	7.880	57	199363	0.308	ppbv #	86
50) 4-Methyl-2-Pentanone	8.758	43	69635m	0.285	ppbv	
52) Tetrachloroethene	11.237	164	289226	1.832	ppbv	98
53) Toluene	9.819	91	1053744	2.396	ppbv	99
58) Ethyl Benzene	12.722	91	156100	0.288	ppbv	95
59) m/p-Xylene	12.983	91	534532m	1.137	ppbv	
60) o-Xylene	13.709	91	180672m	0.412	ppbv	
69) p-Isopropyltoluene	17.664	119	160192	0.249	ppbv #	84
74) 1,2,4-Trimethylbenzene	16.780	105	143789m	0.279	ppbv	
79) Naphthalene	22.220	128	57373m	0.166	ppbv	

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

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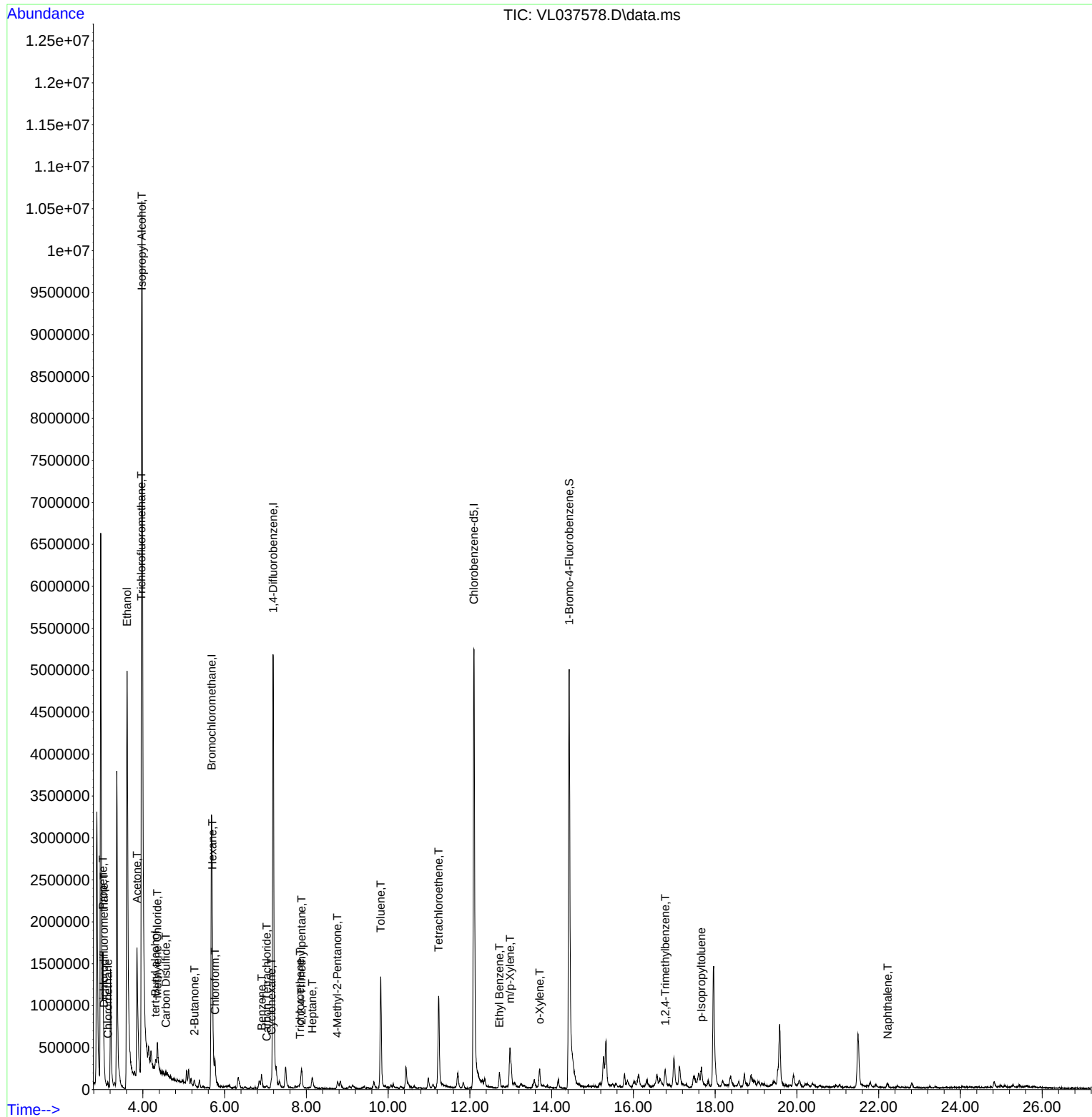
Quant Time: Sep 09 09:13:37 2021

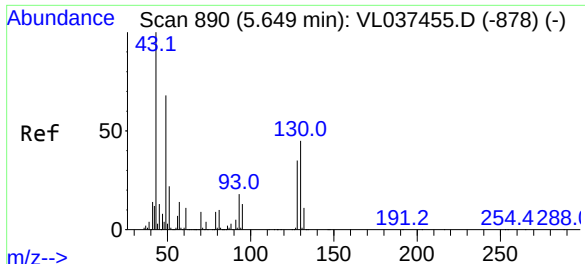
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL081621AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Aug 17 02:13:47 2021

QLast Update : Tue Aug 17 02:13:47 2021

Response via : Initial Calibration





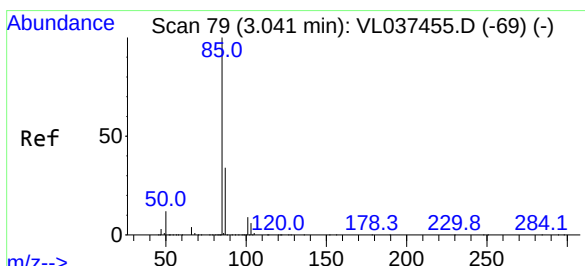
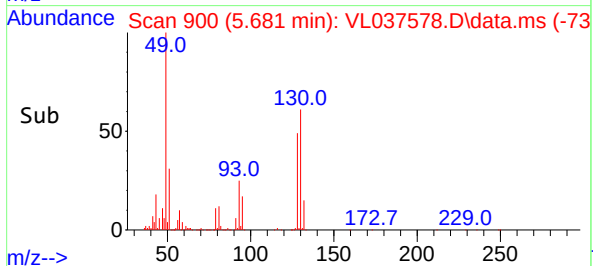
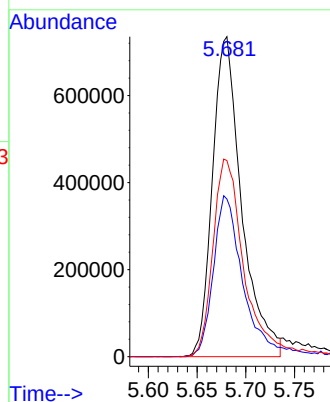
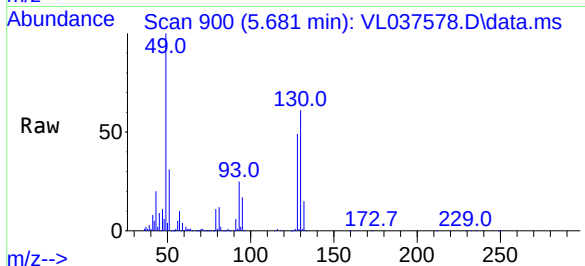
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.681 min Scan# 900
Delta R.T. 0.032 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

Instrument :
MSVOA_L
ClientSampleId :
IA-1

Tgt Ion: 49 Resp: 1532187
Ion Ratio Lower Upper
49 100
128 51.7 27.5 82.4
130 68.1 34.0 101.8

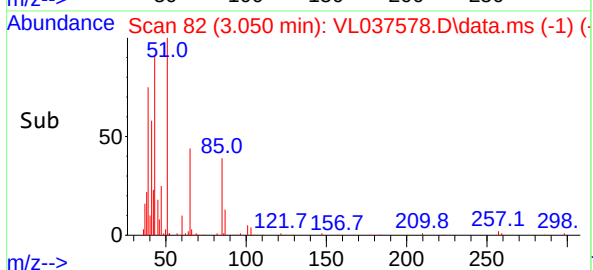
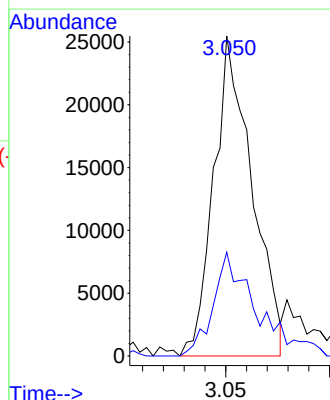
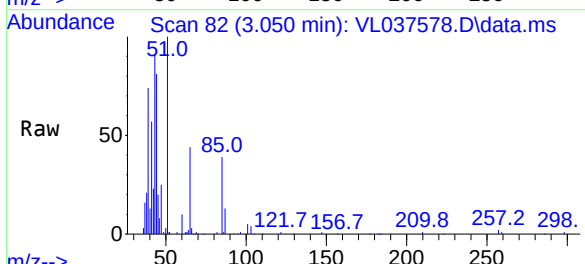
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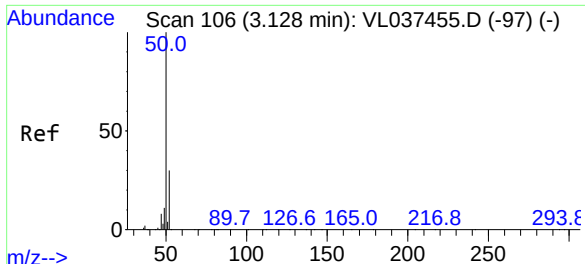
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#2
Dichlorodifluoromethane
Concen: 0.132 ppbv
RT: 3.050 min Scan# 82
Delta R.T. 0.010 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

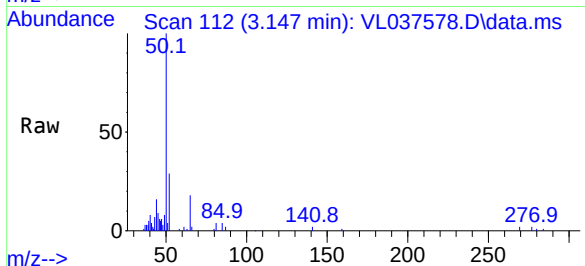
Tgt Ion: 85 Resp: 32571
Ion Ratio Lower Upper
85 100
87 32.4 27.6 41.4





#4
Chloromethane
Concen: 0.508 ppbv m
RT: 3.147 min Scan# 112
Delta R.T. 0.019 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

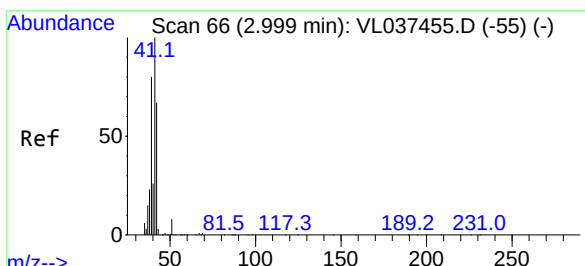
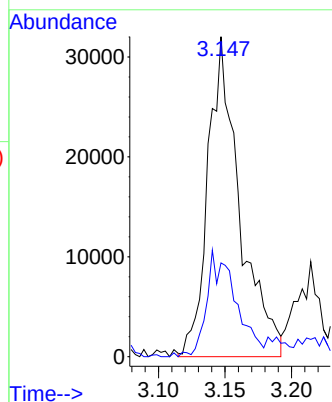
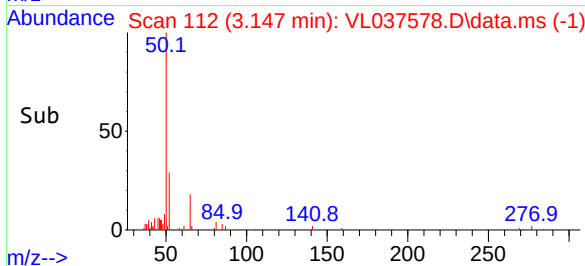
Instrument :
MSVOA_L
ClientSampled :
IA-1



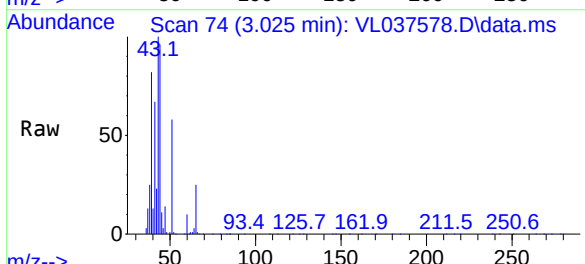
Tgt Ion: 50 Resp: 53250
Ion Ratio Lower Upper
50 100
52 29.3 24.0 36.0

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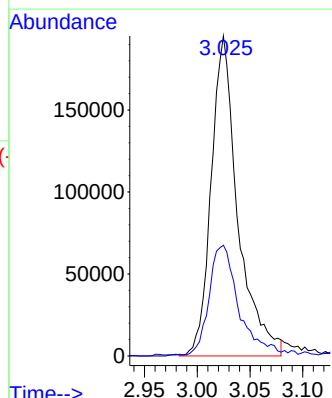
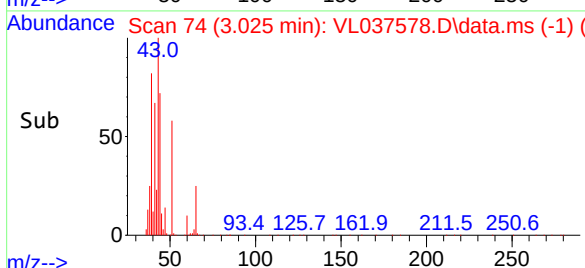
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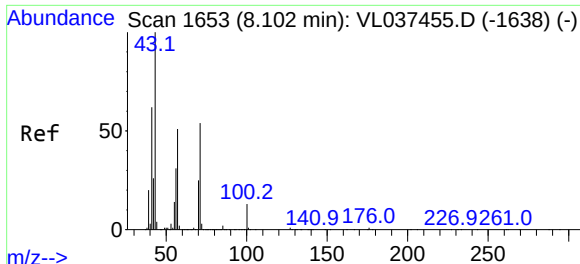


#9
Propene
Concen: 3.269 ppbv m
RT: 3.025 min Scan# 74
Delta R.T. 0.026 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08



Tgt Ion: 41 Resp: 343136
Ion Ratio Lower Upper
41 100
42 98.7 53.7 80.5#





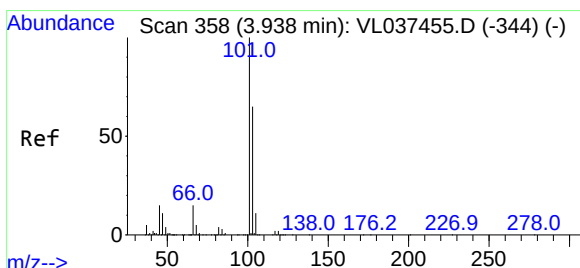
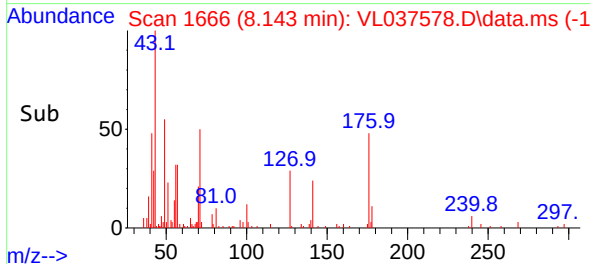
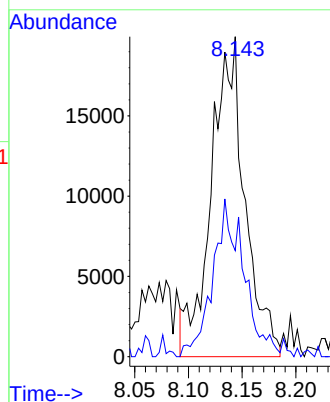
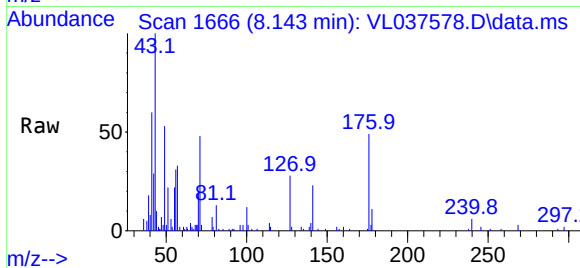
#10
Heptane
Concen: 0.179 ppbv m
RT: 8.143 min Scan# 1666
Delta R.T. 0.042 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

Tgt Ion: 43 Resp: 43300
Ion Ratio Lower Upper
43 100
57 0.0 41.0 61.6#

Instrument :
MSVOA_L
ClientSampleId :
IA-1

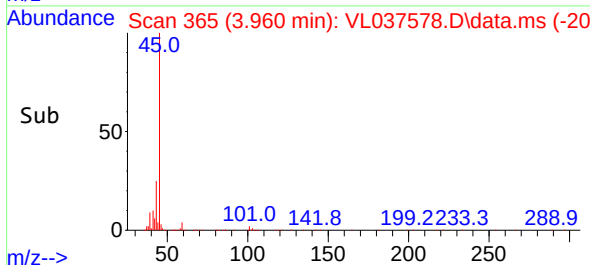
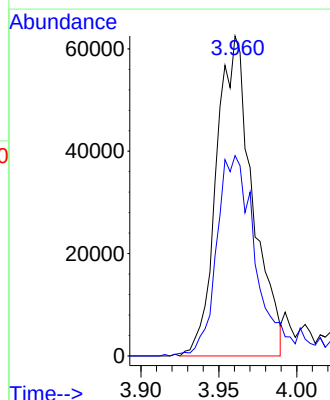
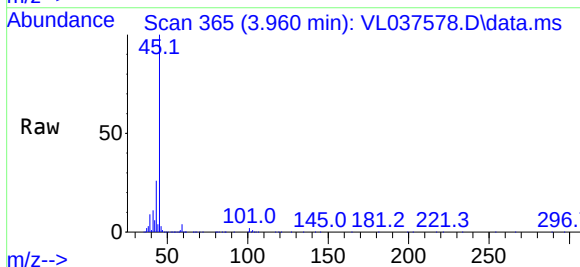
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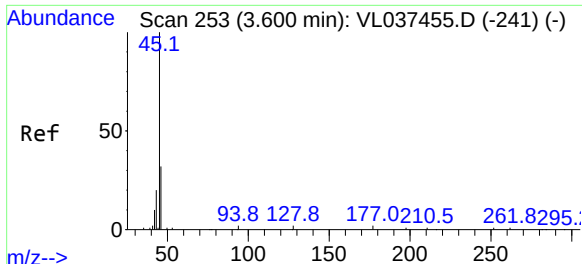
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#11
Trichlorofluoromethane
Concen: 0.436 ppbv
RT: 3.960 min Scan# 365
Delta R.T. 0.022 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

Tgt Ion: 101 Resp: 100598
Ion Ratio Lower Upper
101 100
103 61.8 51.8 77.6





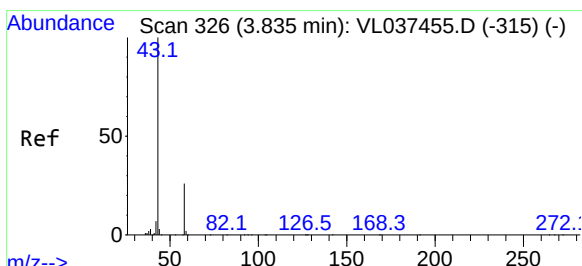
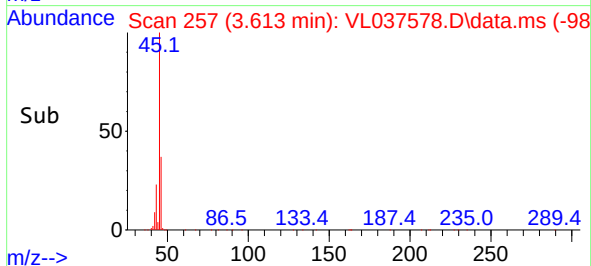
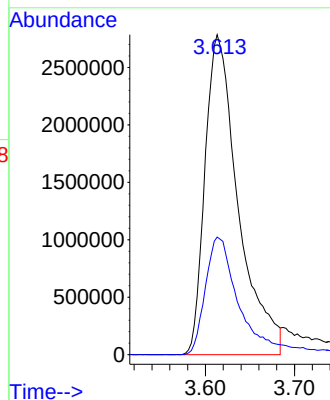
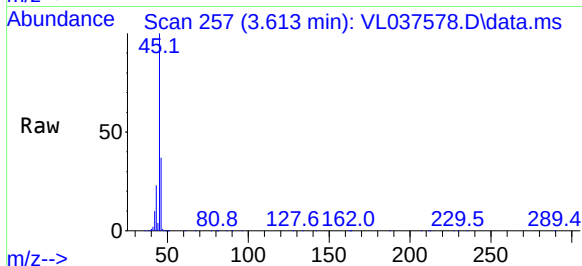
#13
Ethanol
Concen: 706.485 ppbv
RT: 3.613 min Scan# 257
Delta R.T. 0.013 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

Tgt Ion: 45 Resp: 7216795
Ion Ratio Lower Upper
45 100
46 39.9 14.1 56.5

Instrument :
MSVOA_L
ClientSampled :
IA-1

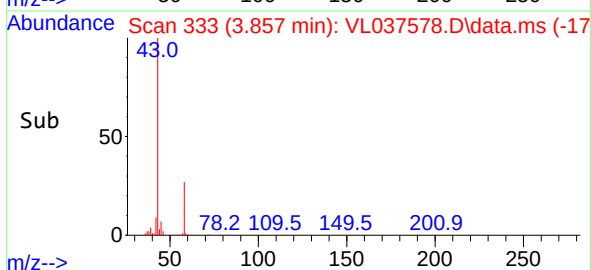
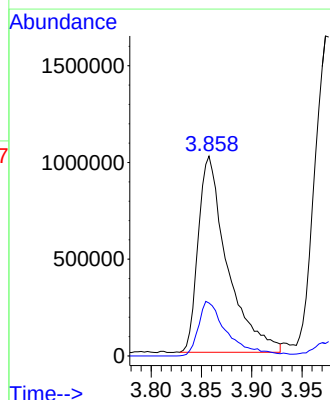
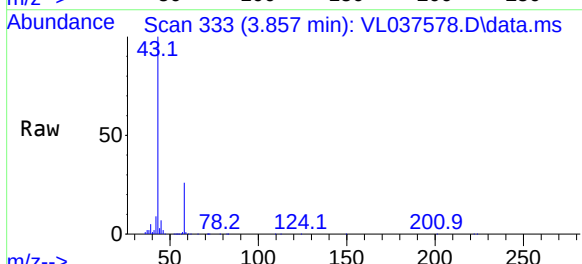
Manual Integrations
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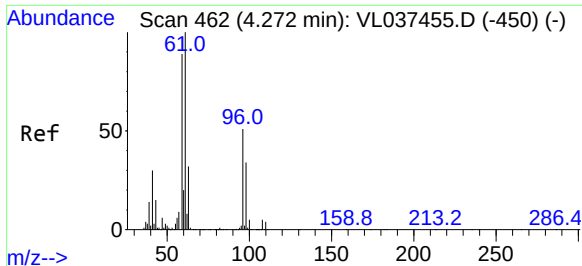
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#15
Acetone
Concen: 13.073 ppbv
RT: 3.857 min Scan# 333
Delta R.T. 0.022 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

Tgt Ion: 43 Resp: 2038462
Ion Ratio Lower Upper
43 100
58 27.8 24.8 37.2





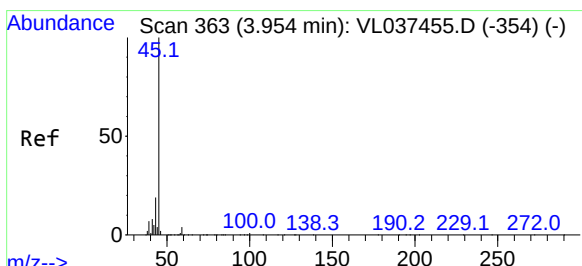
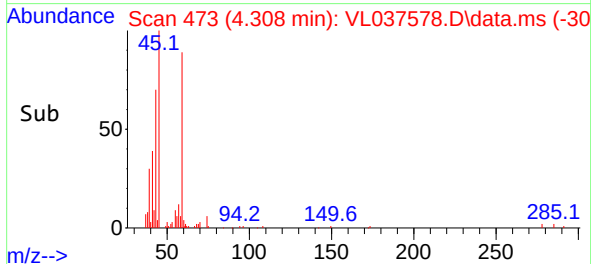
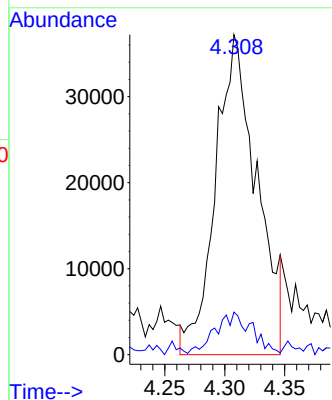
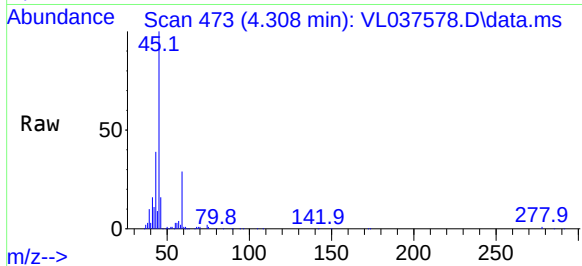
#17
tert-Butyl alcohol
Concen: 0.624 ppbv m
RT: 4.308 min Scan# 473
Delta R.T. 0.035 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

Instrument :
MSVOA_L
ClientSampled :
IA-1

Tgt Ion: 59 Resp: 88906
Ion Ratio Lower Upper
59 100
57 0.0 8.3 12.5#

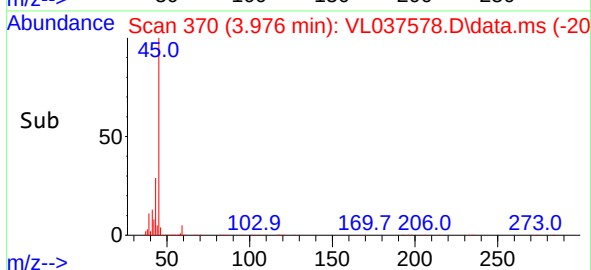
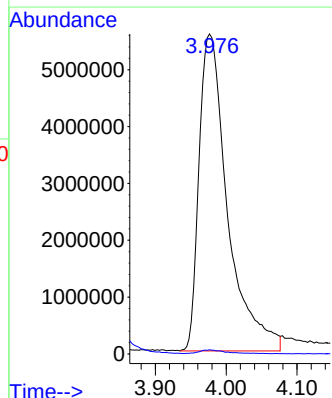
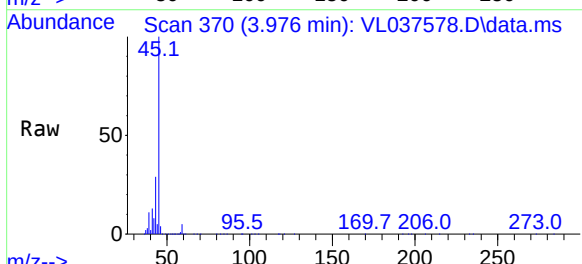
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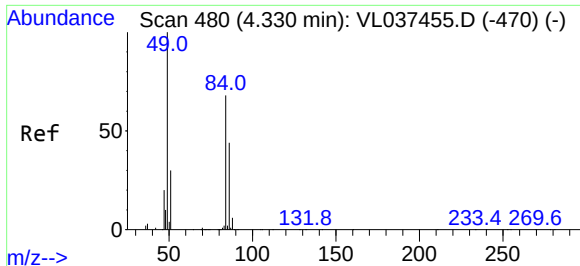
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#19
Isopropyl Alcohol
Concen: 174.768 ppbv
RT: 3.976 min Scan# 370
Delta R.T. 0.022 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

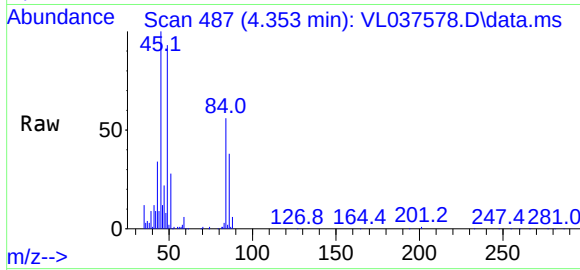
Tgt Ion: 45 Resp: 15612796
Ion Ratio Lower Upper
45 100
58 1.4 1.4 2.2#





#20
Methylene Chloride
Concen: 1.594 ppbv
RT: 4.353 min Scan# 487
Delta R.T. 0.022 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

Instrument :
MSVOA_L
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IA-1

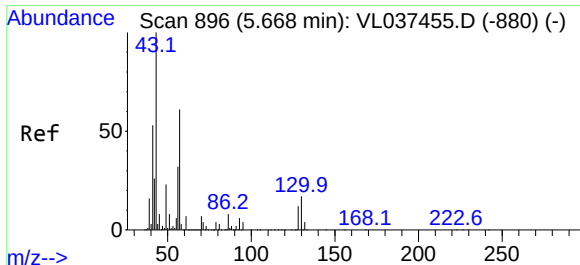
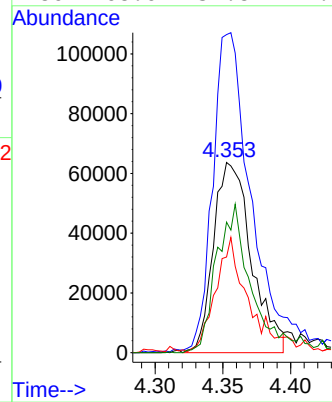
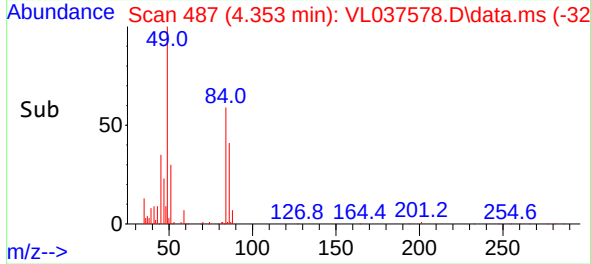


Tgt Ion: 84 Resp: 124474

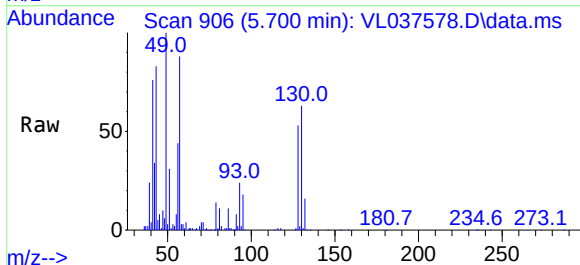
Ion	Ratio	Lower	Upper
84	100		
49	165.8	118.2	177.2
51	48.8	36.6	55.0
86	68.6	51.8	77.6

Manual Integrations
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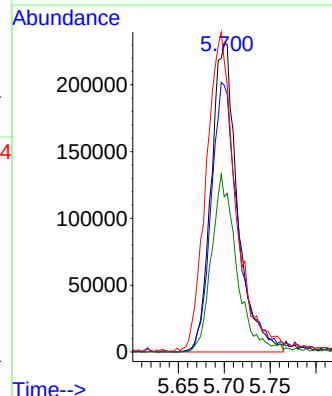
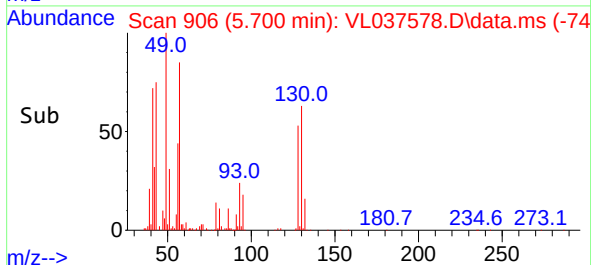


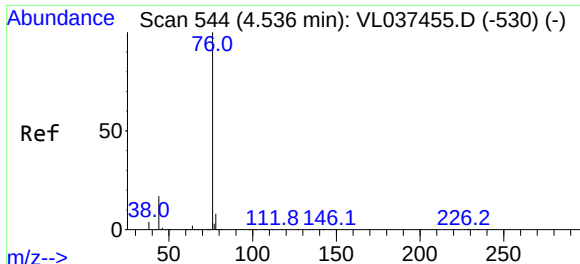
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Hexane
Concen: 2.397 ppbv
RT: 5.700 min Scan# 906
Delta R.T. 0.032 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08



Tgt Ion: 57 Resp: 464010

Ion	Ratio	Lower	Upper
57	100		
41	89.0	72.3	108.5
43	118.6	172.3	258.5#
56	56.2	42.8	64.2





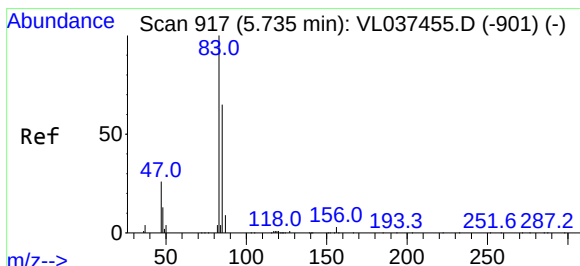
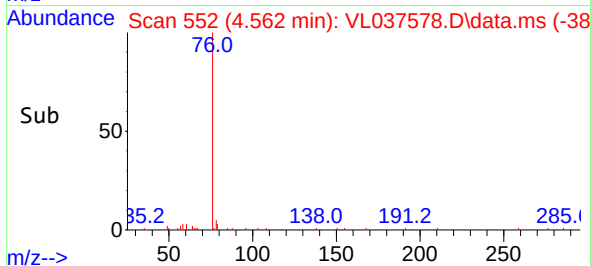
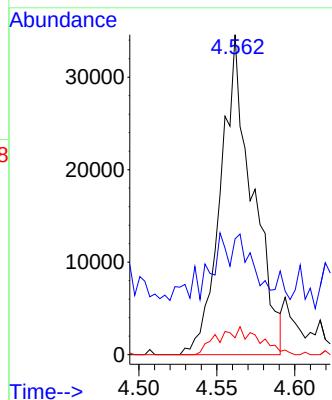
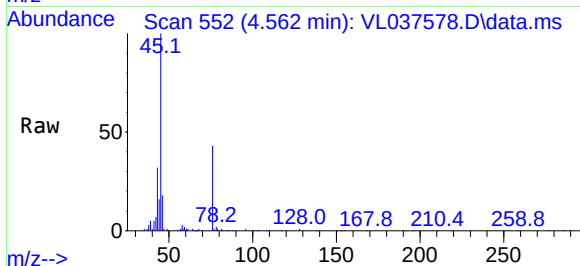
#27
Carbon Disulfide
Concen: 0.284 ppbv
RT: 4.562 min Scan# 552
Delta R.T. 0.026 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

Tgt Ion:	76	Resp:	49036
Ion	Ratio	Lower	Upper
76	100		
44	28.7	13.9	20.9#
78	11.1	7.9	11.9

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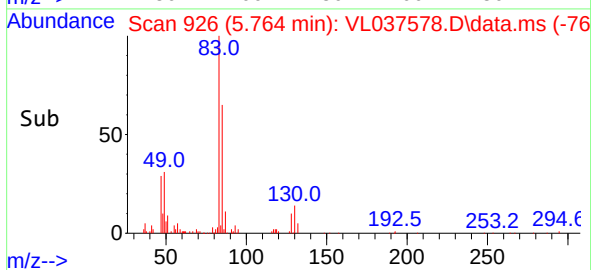
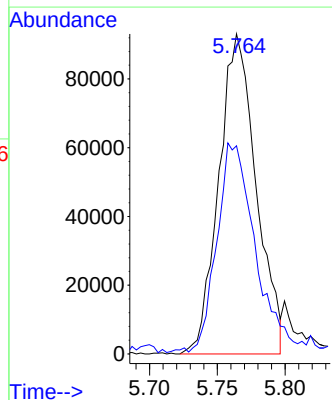
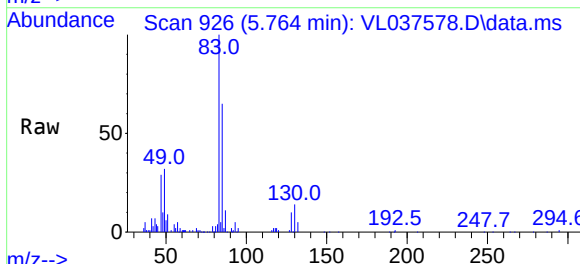
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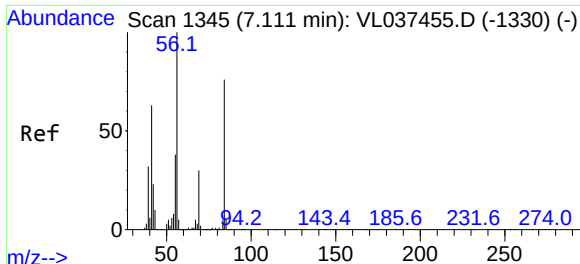
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#29
Chloroform
Concen: 0.650 ppbv
RT: 5.764 min Scan# 926
Delta R.T. 0.029 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

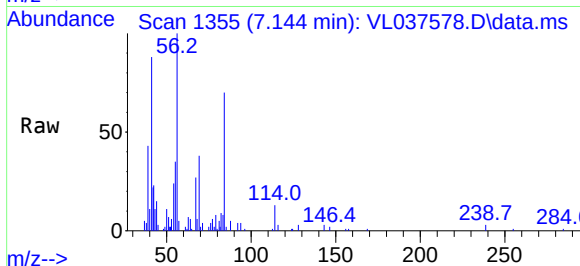
Tgt Ion:	83	Resp:	178175
Ion	Ratio	Lower	Upper
83	100		
85	63.8	52.3	78.5





#30
Cyclohexane
Concen: 0.265 ppbv m
RT: 7.144 min Scan# 1355
Delta R.T. 0.032 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

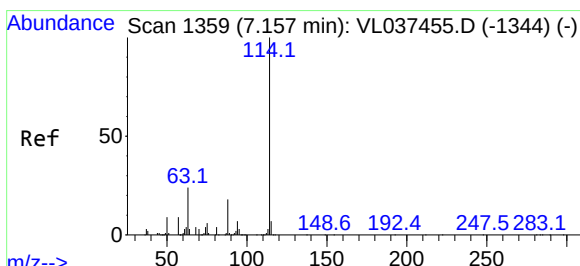
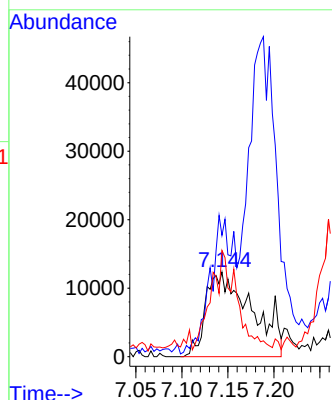
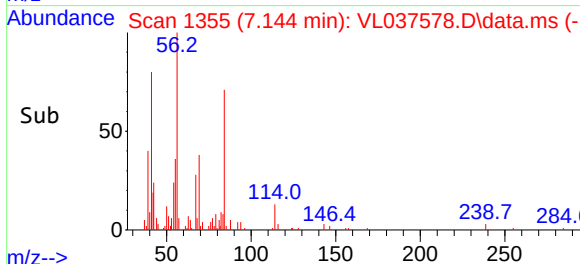
Instrument :
MSVOA_L
ClientSampled :
IA-1



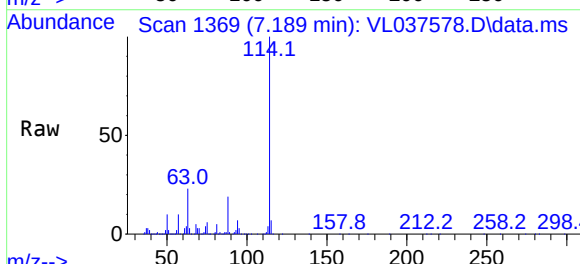
Tgt Ion: 84 Resp: 42656
Ion Ratio Lower Upper
84 100
56 0.0 110.6 165.8#
41 0.0 67.0 100.6#

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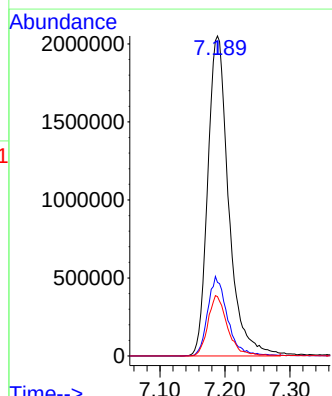
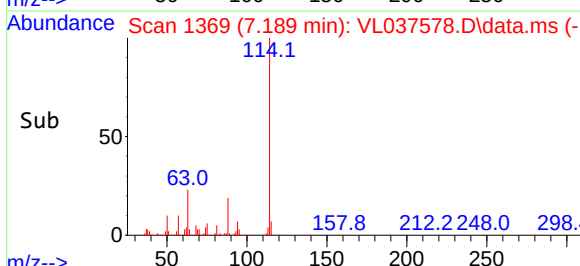
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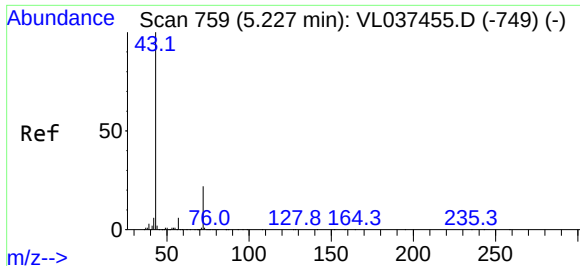


#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.189 min Scan# 1369
Delta R.T. 0.032 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08



Tgt Ion: 114 Resp: 4581780
Ion Ratio Lower Upper
114 100
63 23.7 19.3 28.9
88 17.9 14.2 21.4





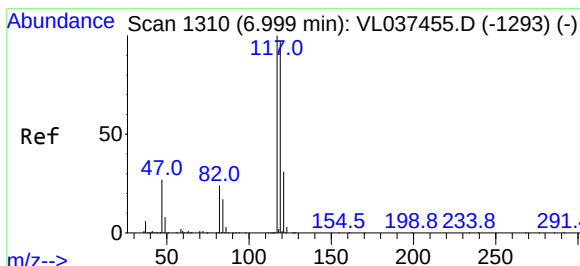
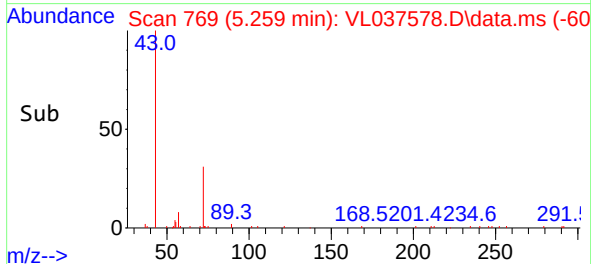
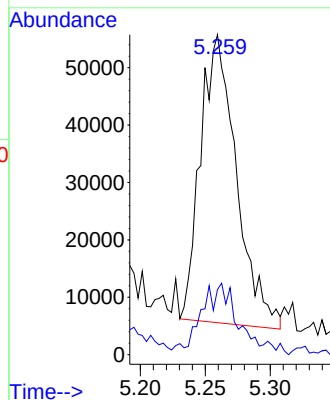
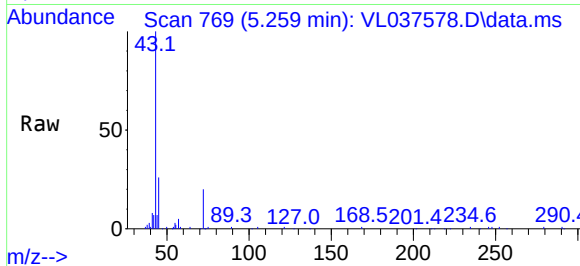
#34
2-Butanone
Concen: 0.516 ppbv
RT: 5.259 min Scan# 769
Delta R.T. 0.032 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

Tgt Ion: 43 Resp: 96605
Ion Ratio Lower Upper
43 100
72 27.9 17.4 26.0#

Instrument :
MSVOA_L
ClientSampleId :
IA-1

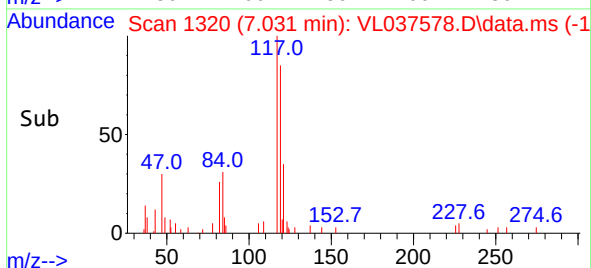
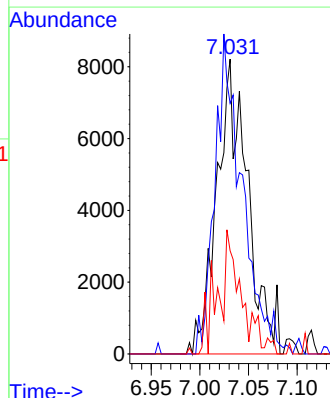
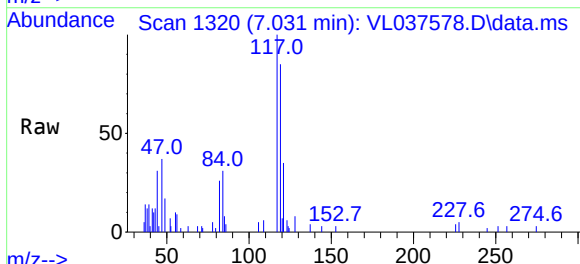
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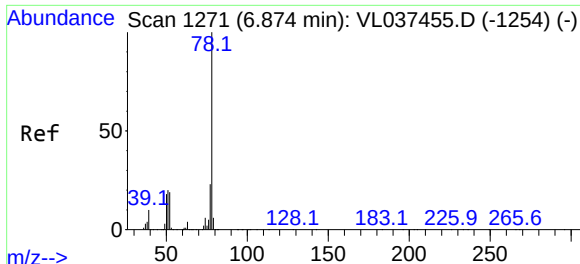
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#35
Carbon Tetrachloride
Concen: 0.066 ppbv m
RT: 7.031 min Scan# 1320
Delta R.T. 0.032 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

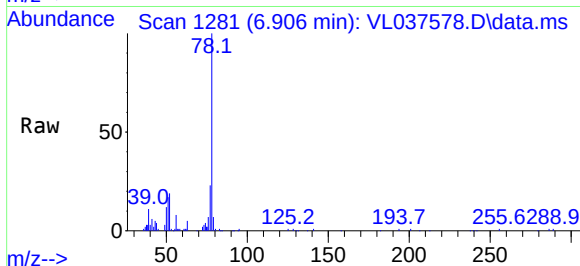
Tgt Ion: 117 Resp: 17975
Ion Ratio Lower Upper
117 100
119 85.0 77.3 115.9
121 35.0 25.2 37.8





#36
Benzene
Concen: 0.338 ppbv m
RT: 6.906 min Scan# 1281
Delta R.T. 0.032 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

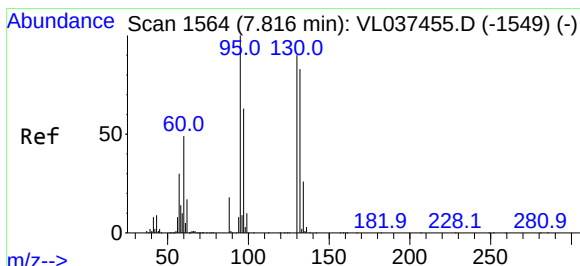
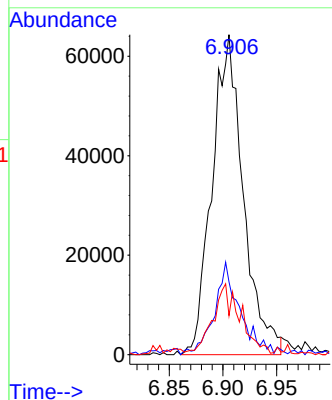
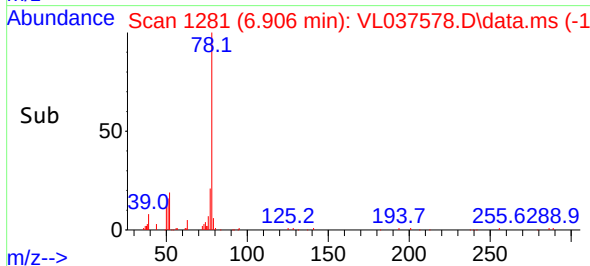
Instrument :
MSVOA_L
ClientSampled :
IA-1



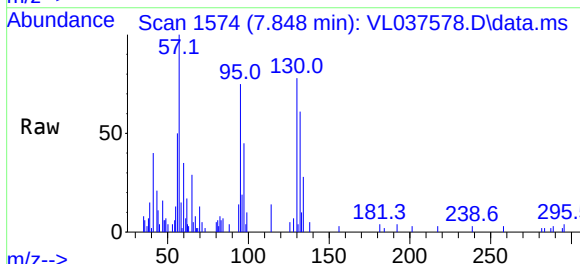
Tgt Ion: 78 Resp: 130356
Ion Ratio Lower Upper
78 100
77 22.8 18.2 27.4
50 12.2 14.6 21.8#

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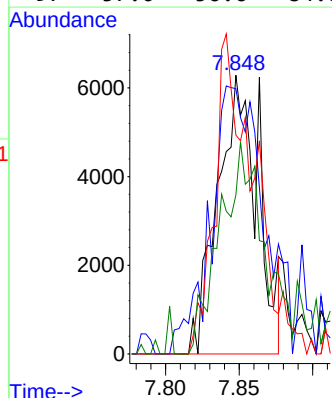
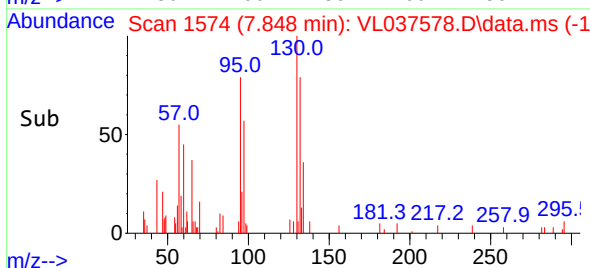
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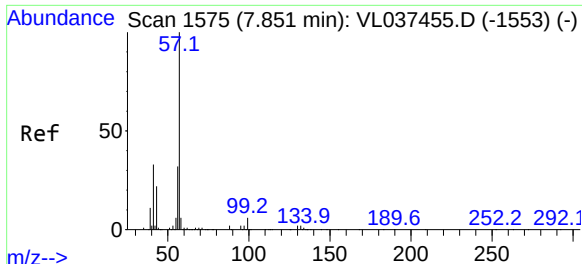


#38
Trichloroethene
Concen: 0.076 ppbv m
RT: 7.848 min Scan# 1574
Delta R.T. 0.032 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08



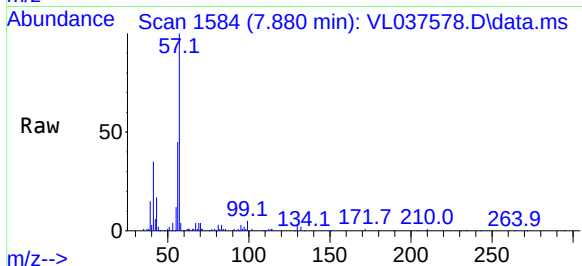
Tgt Ion:130 Resp: 11990
Ion Ratio Lower Upper
130 100
95 95.2 89.2 133.8
132 78.5 74.0 111.0
97 57.0 56.6 84.8





#44
2,2,4-Trimethylpentane
Concen: 0.308 ppbv
RT: 7.880 min Scan# 1584
Delta R.T. 0.029 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

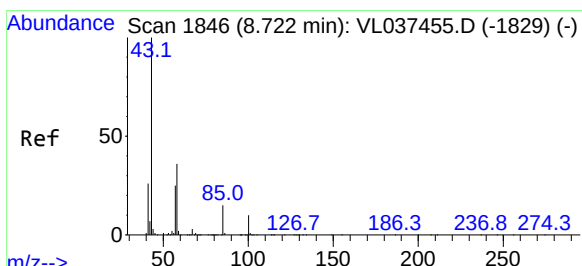
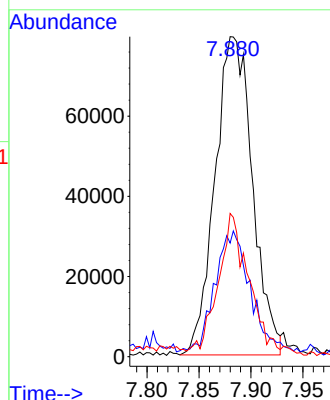
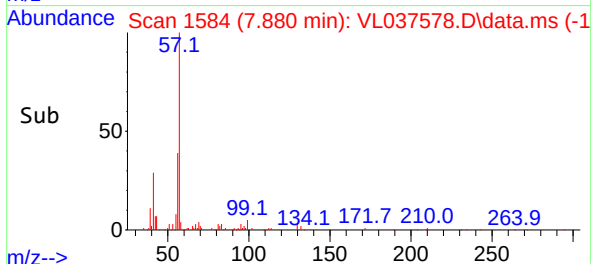
Instrument :
MSVOA_L
ClientSampled :
IA-1



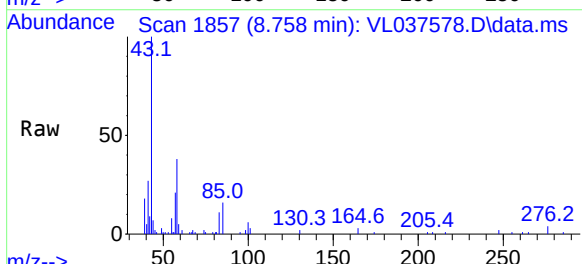
Tgt Ion: 57 Resp: 199363
Ion Ratio Lower Upper
57 100
41 40.4 26.2 39.4#
56 40.0 25.4 38.2#

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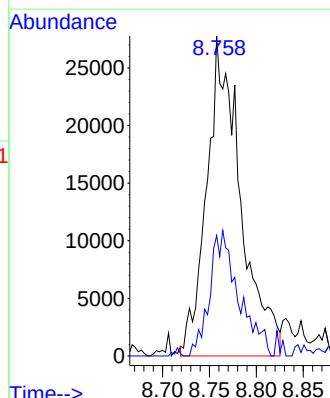
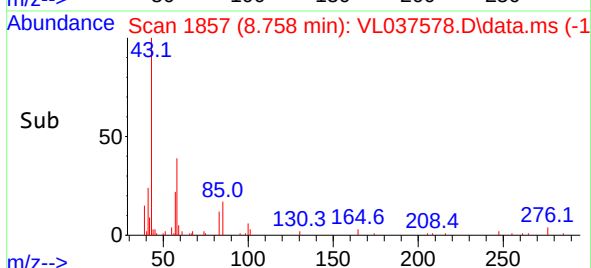
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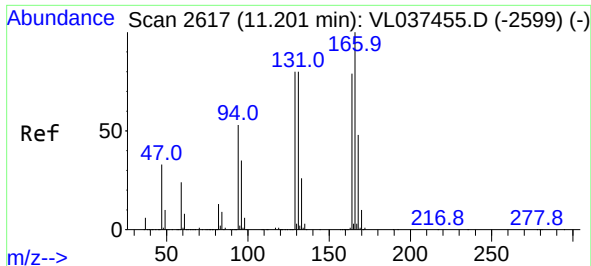


#50
4-Methyl-2-Pentanone
Concen: 0.285 ppbv m
RT: 8.758 min Scan# 1857
Delta R.T. 0.035 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

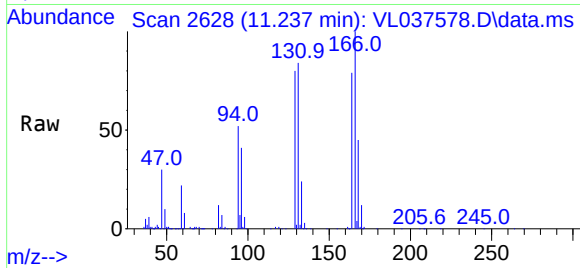


Tgt Ion: 43 Resp: 69635
Ion Ratio Lower Upper
43 100
58 0.0 29.9 44.9#



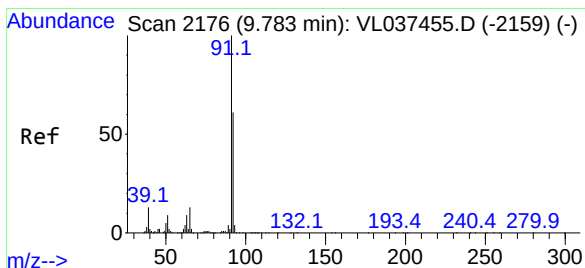
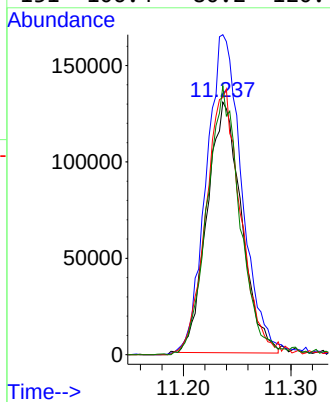
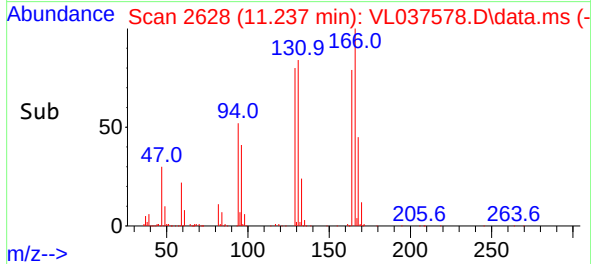


#52
Tetrachloroethene
Concen: 1.832 ppbv
RT: 11.237 min Scan# 2628
Delta R.T. 0.035 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

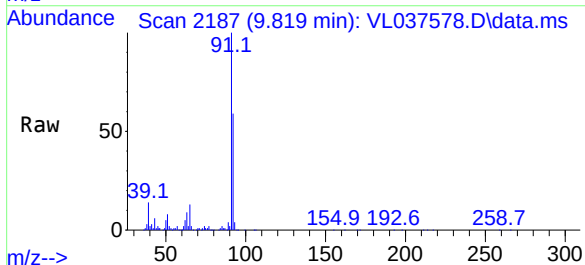


Tgt Ion:164 Resp: 289226

Ion	Ratio	Lower	Upper
164	100		
166	125.5	100.7	151.1
129	101.0	80.9	121.3
131	106.4	80.2	120.4

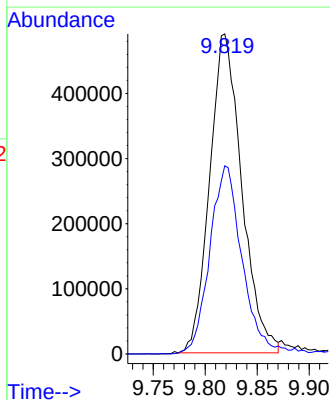
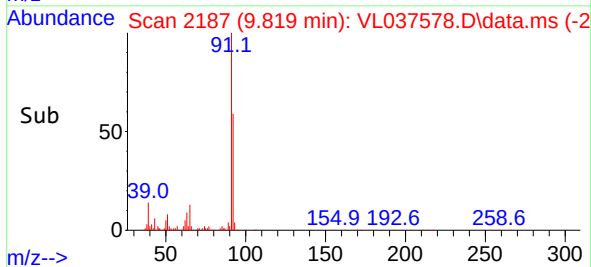


#53
Toluene
Concen: 2.396 ppbv
RT: 9.819 min Scan# 2187
Delta R.T. 0.035 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08



Tgt Ion: 91 Resp: 1053744

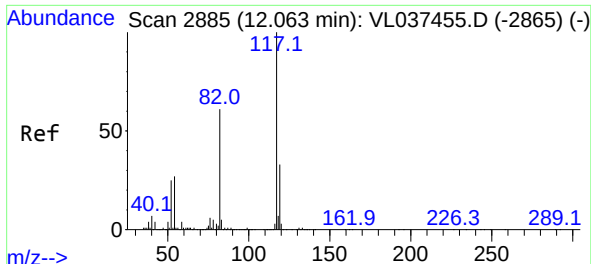
Ion	Ratio	Lower	Upper
91	100		
92	60.4	48.8	73.2



Instrument :
MSVOA_L
ClientSampled :
IA-1

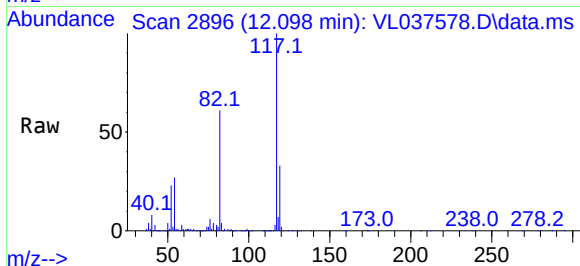
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.098 min Scan# 2896
Delta R.T. 0.035 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

Instrument :
MSVOA_L
ClientSampled :
IA-1

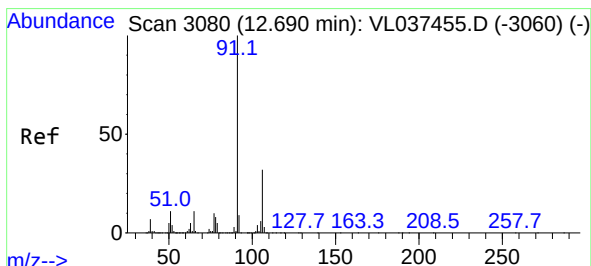
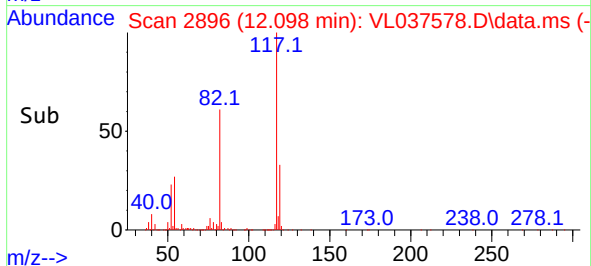
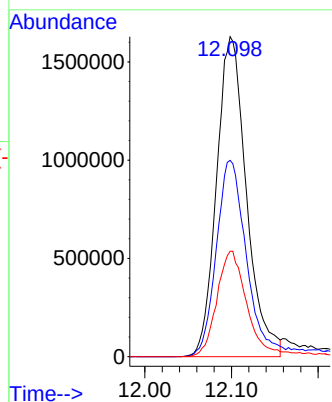


Tgt Ion:117 Resp: 3907499

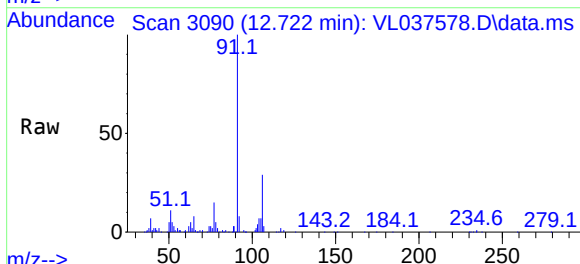
Ion	Ratio	Lower	Upper
117	100		
82	67.5	52.9	79.3
119	34.1	24.8	37.2

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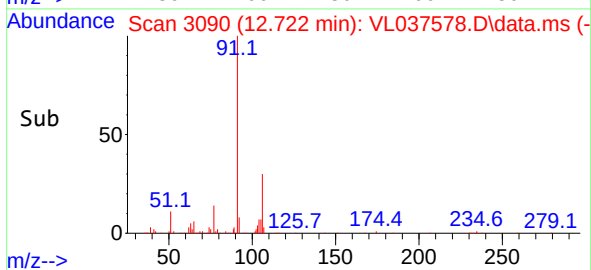
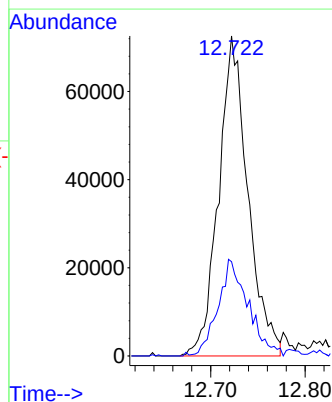


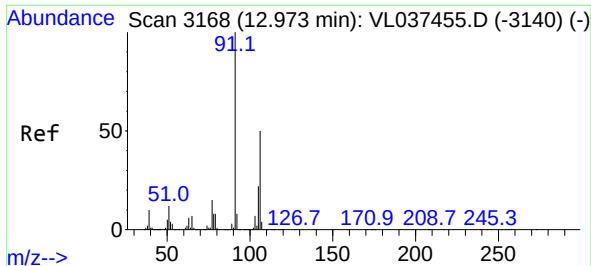
#58
Ethyl Benzene
Concen: 0.288 ppbv
RT: 12.722 min Scan# 3090
Delta R.T. 0.032 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08



Tgt Ion: 91 Resp: 156100

Ion	Ratio	Lower	Upper
91	100		
106	29.5	25.7	38.5





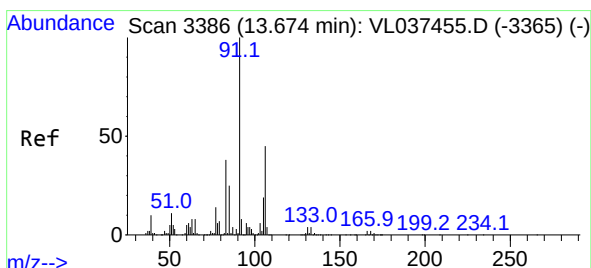
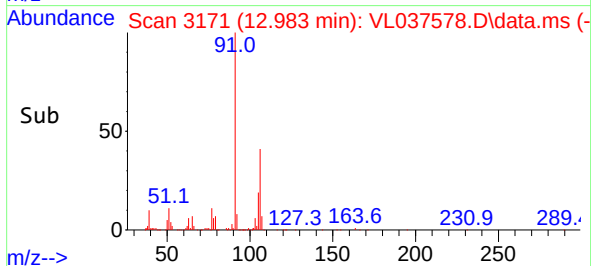
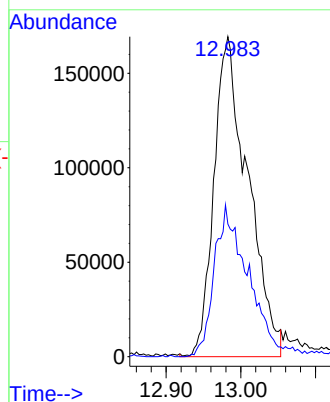
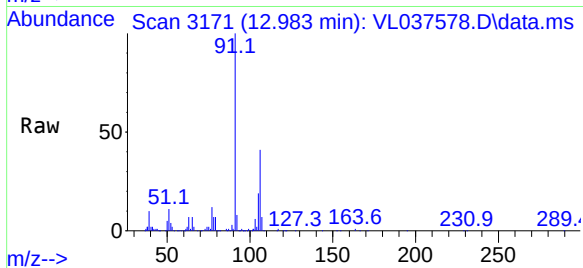
#59
m/p-Xylene
Concen: 1.137 ppbv m
RT: 12.983 min Scan# 3171
Delta R.T. 0.010 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

Tgt Ion: 91 Resp: 534532
Ion Ratio Lower Upper
91 100
106 0.0 36.9 55.3#

Instrument :
MSVOA_L
ClientSampled :
IA-1

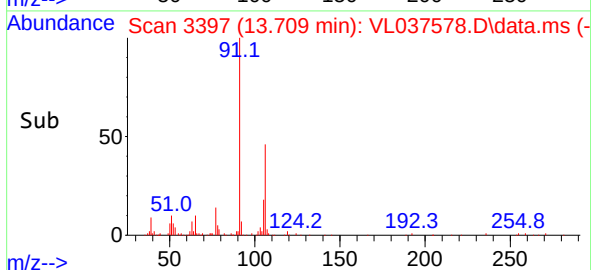
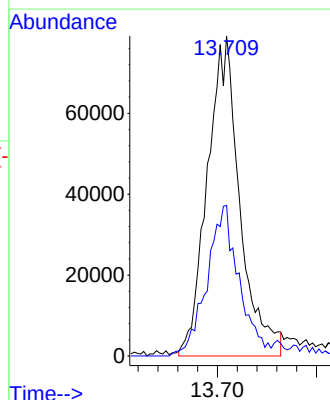
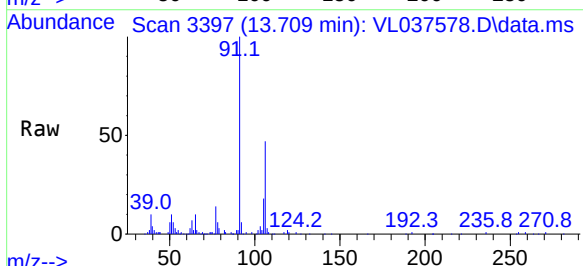
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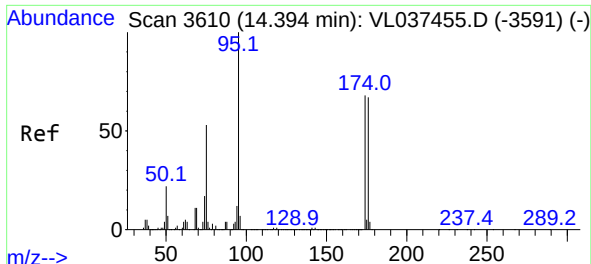
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#60
o-Xylene
Concen: 0.412 ppbv m
RT: 13.709 min Scan# 3397
Delta R.T. 0.035 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

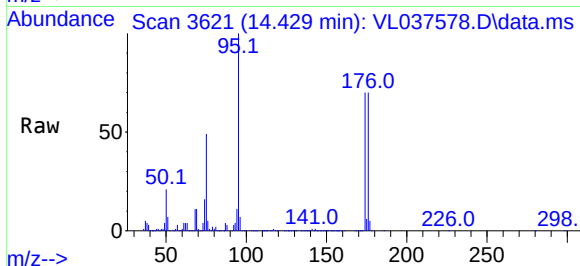
Tgt Ion: 91 Resp: 180672
Ion Ratio Lower Upper
91 100
106 50.1 23.7 71.1





#68
1-Bromo-4-Fluorobenzene
Concen: 10.357 ppbv
RT: 14.429 min Scan# 3621
Delta R.T. 0.035 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

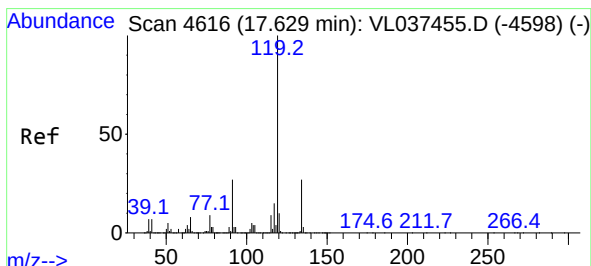
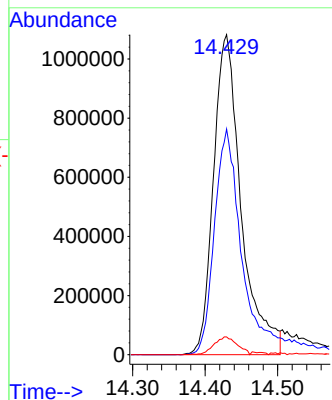
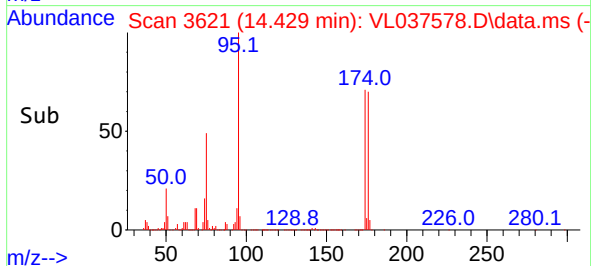
Instrument :
MSVOA_L
ClientSampled :
IA-1



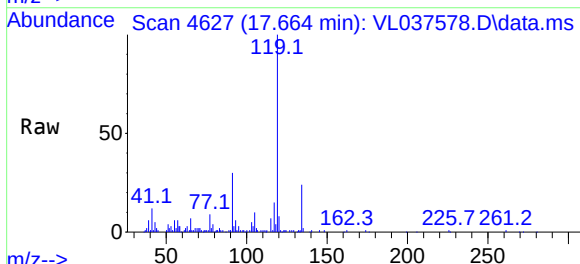
Tgt Ion: 95 Resp: 2875103
Ion Ratio Lower Upper
95 100
174 75.3 59.6 89.4
175 5.3 4.6 7.0

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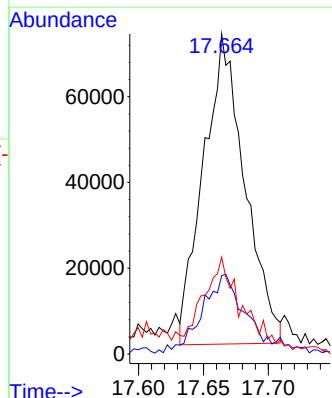
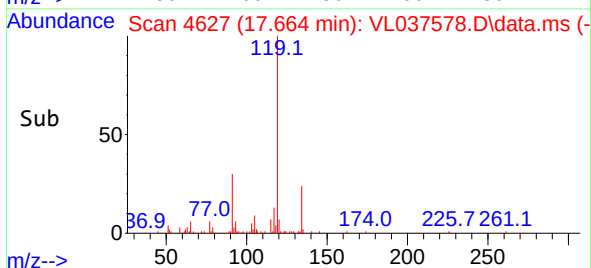
MMDadoda
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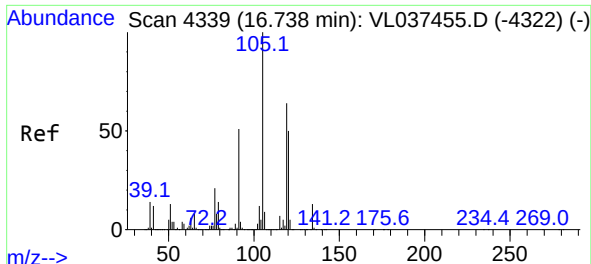


#69
p-Isopropyltoluene
Concen: 0.249 ppbv
RT: 17.664 min Scan# 4627
Delta R.T. 0.035 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08



Tgt Ion: 119 Resp: 160192
Ion Ratio Lower Upper
119 100
134 30.1 21.1 31.7
91 40.5 22.4 33.6#





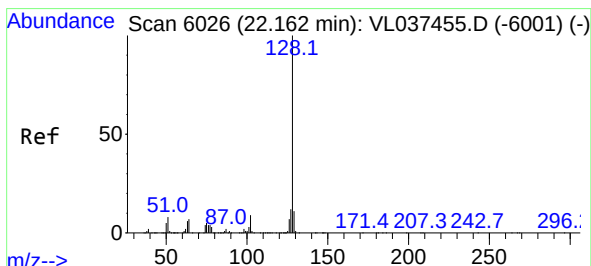
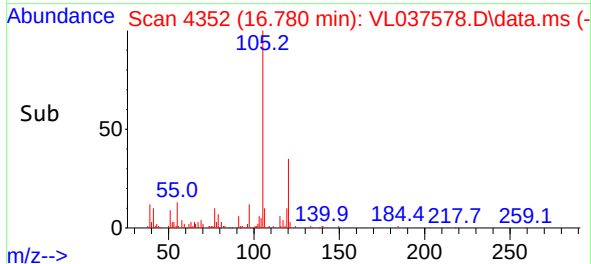
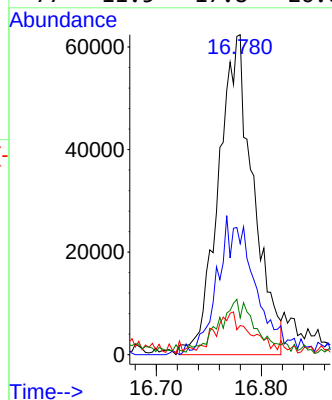
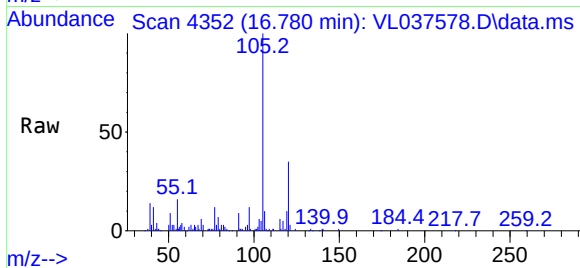
#74
1,2,4-Trimethylbenzene
Concen: 0.279 ppbv m
RT: 16.780 min Scan# 4352
Delta R.T. 0.042 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

Tgt Ion:	105	Resp:	143789
Ion	Ratio	Lower	Upper
105	100		
120	34.7	40.4	60.6#
91	9.1	44.6	67.0#
77	11.5	17.8	26.6#

Instrument :
MSVOA_L
ClientSampled :
IA-1

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#79
Naphthalene
Concen: 0.166 ppbv m
RT: 22.220 min Scan# 6044
Delta R.T. 0.058 min
Lab File: VL037578.D
Acq: 8 Sep 2021 19:08

Tgt Ion:	128	Resp:	57373
Ion	Ratio	Lower	Upper
128	100		
127	5.4	9.4	14.2#
129	7.7	8.8	13.2#

