

Data Path : Z:\voasrv\HPCHEM1\MSVOA L\Data\VL091721\
 Data File : VL037645.D
 Acq On : 17 Sep 2021 17:23
 Operator : SY/AP
 Sample : M3801-02DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Manual Integrations
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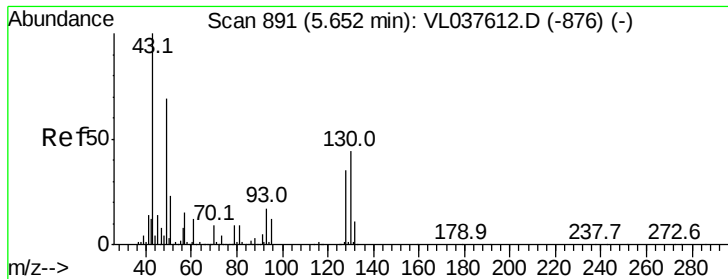
Quant Time: Sep 18 09:18:26 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 1
 QLast Update : Thu Sep 16 13:42:46 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1400841	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	4025009	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3480900	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2423512	9.63	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	65769	0.259	ppbv	92
3) Chlorodifluoromethane	2.98	51	237790m	0.900	ppbv	
4) Chloromethane	3.13	50	52921	0.542	ppbv #	77
9) Propene	3.01	41	85051	0.913	ppbv	86
10) Heptane	8.11	43	33445m	0.154	ppbv	
11) Trichlorofluoromethane	3.94	101	214218	1.053	ppbv	94
13) Ethanol	3.59	45	3960097	434.375	ppbv	91
15) Acetone	3.84	43	1464086	10.059	ppbv	99
19) Isopropyl Alcohol	3.95	45	7653759	96.648	ppbv #	93
20) Methylene Chloride	4.33	84	2142679	30.837	ppbv	98
26) Hexane	5.67	57	789340	4.714	ppbv #	51
29) Chloroform	5.74	83	35821m	0.146	ppbv	
34) 2-Butanone	5.23	43	152102	0.930	ppbv #	90
35) Carbon Tetrachloride	7.00	117	12533m	0.055	ppbv	
36) Benzene	6.87	78	71858	0.214	ppbv #	90
44) 2,2,4-Trimethylpentane	7.85	57	80140	0.142	ppbv #	83
50) 4-Methyl-2-Pentanone	8.74	43	49024m	0.236	ppbv	
52) Tetrachloroethene	11.20	164	6644m	0.052	ppbv	
53) Toluene	9.79	91	147363m	0.395	ppbv	
59) m/p-Xylene	12.94	91	83329m	0.207	ppbv	
61) Styrene	13.50	104	65155m	0.345	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	52122m	0.121	ppbv	
76) 1,4-Dichlorobenzene	17.12	146	73015m	0.276	ppbv	
79) Naphthalene	22.18	128	40757m	0.154	ppbv	

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



#1

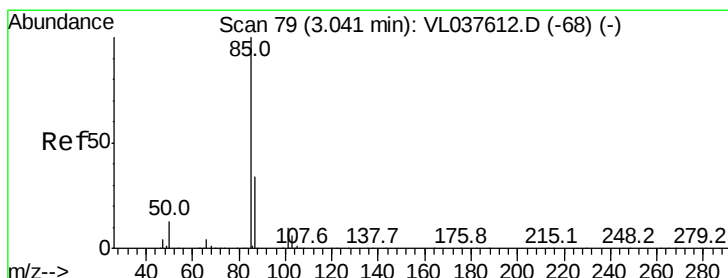
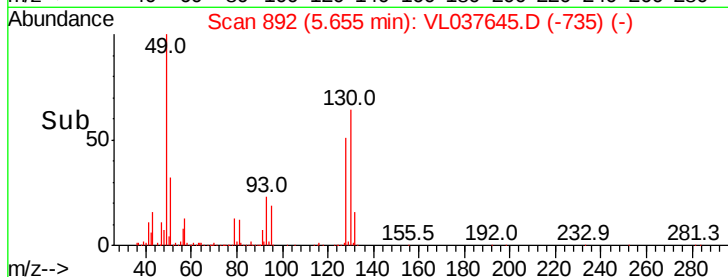
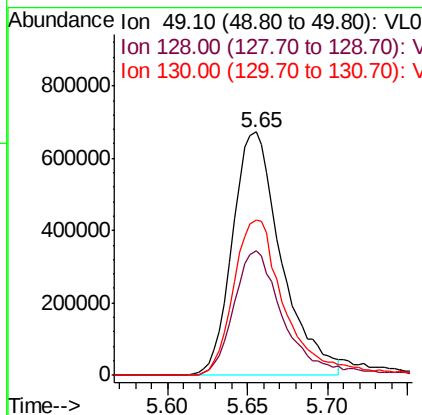
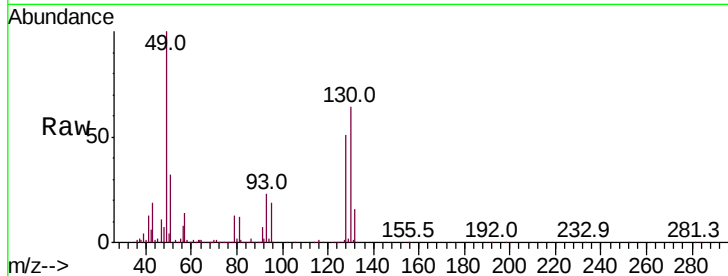
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 892
 Delta R.T. 0.00 min
 Lab File: VL037645.D
 Acq: 17 Sep 2021 17:23

Instrument :
 MSVOA_L
 ClientSampled :
 IA1DUP

Tot Ion: 49 Resp: 1400841
 Ion Ratio Lower Upper
 49 100
 128 54.2 27.9 83.6
 130 68.4 33.9 101.7

Manual Integrations
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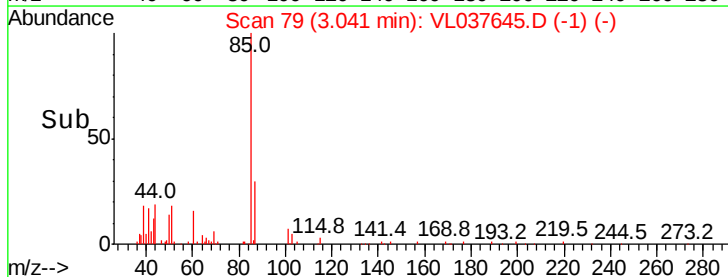
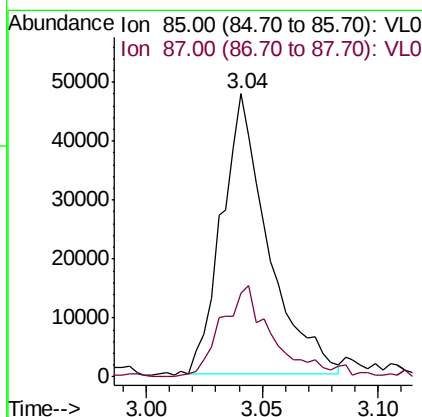
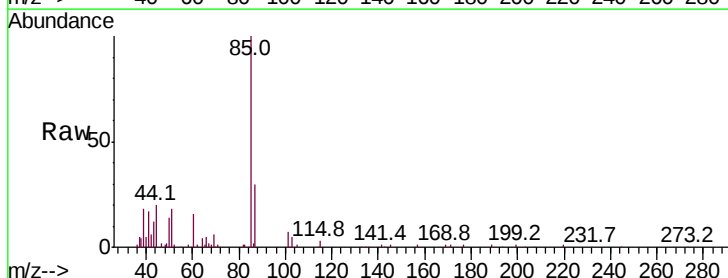
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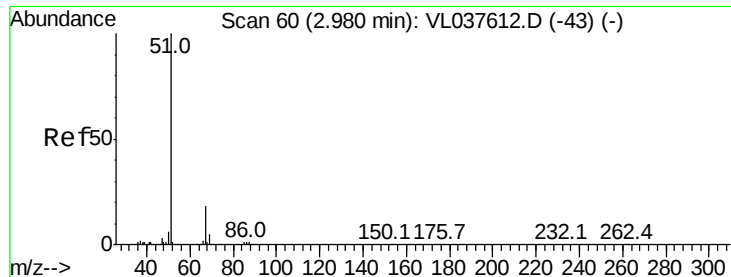


#2

Dichlorodifluoromethane
 Concen: 0.259 ppbv
 RT: 3.04 min Scan# 79
 Delta R.T. 0.00 min
 Lab File: VL037645.D
 Acq: 17 Sep 2021 17:23

Tgt Ion: 85 Resp: 65769
 Ion Ratio Lower Upper
 85 100
 87 28.9 26.8 40.2





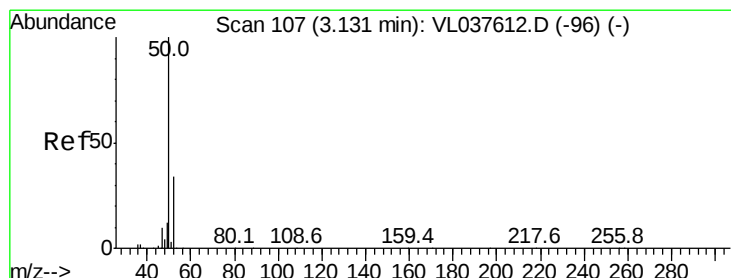
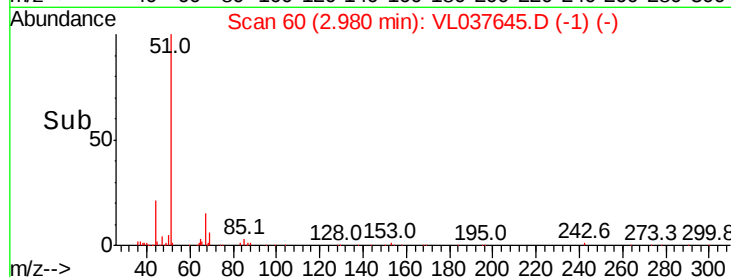
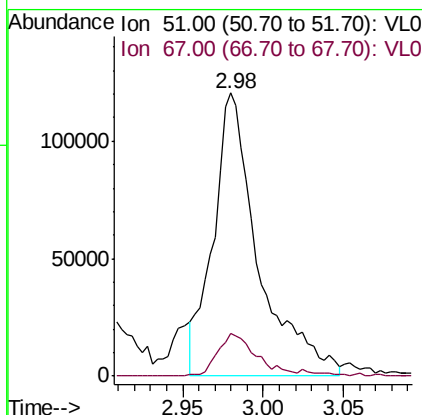
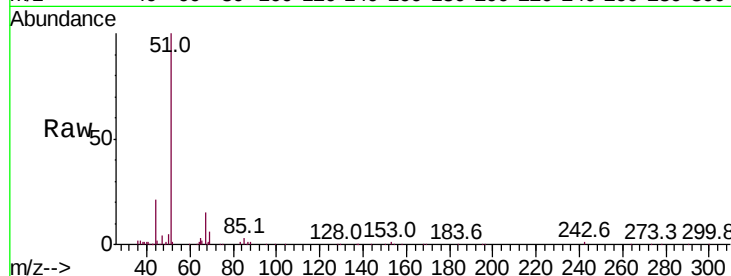
#3
Chlorodifluoromethane
Concen: 0.900 ppbv
RT: 2.98 min Scan# 60
Delta R.T. 0.00 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ratio	Lower	Upper
51	100		
67	14.2	14.0	21.0

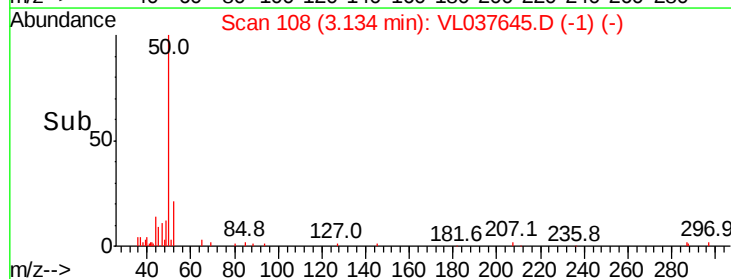
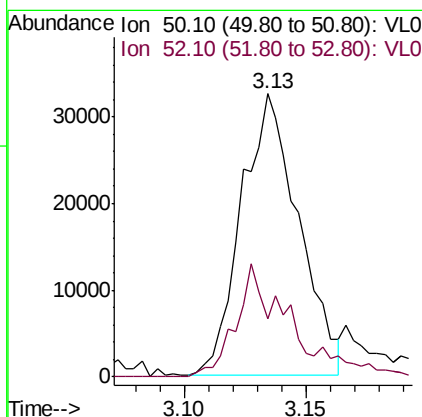
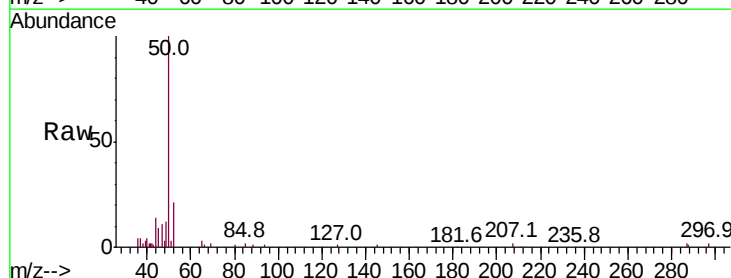
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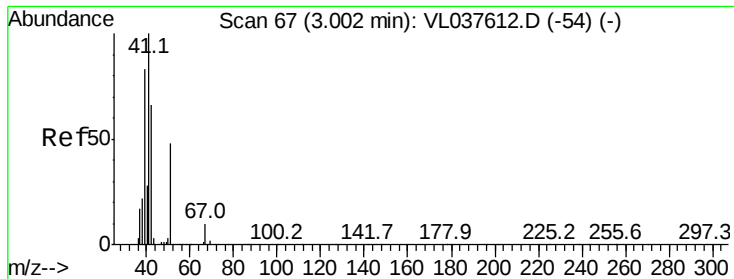
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#4
Chloromethane
Concen: 0.542 ppbv
RT: 3.13 min Scan# 108
Delta R.T. 0.00 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

Tgt Ion	Ratio	Lower	Upper
50	100		
52	20.7	27.1	40.7#





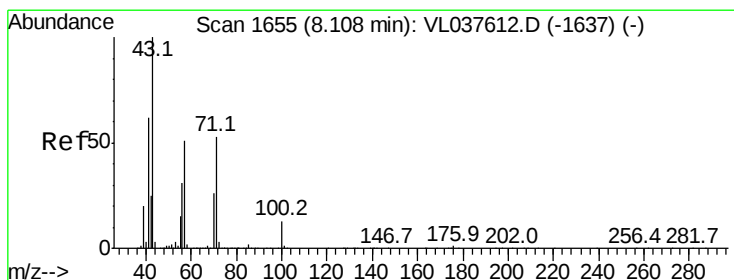
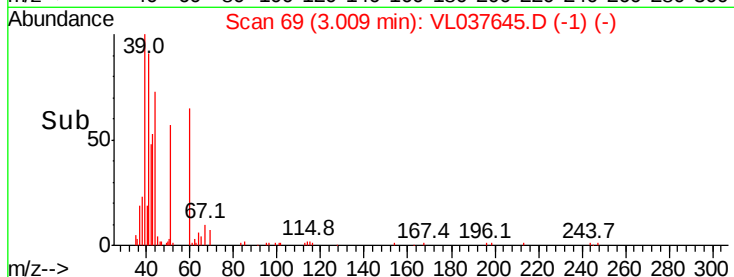
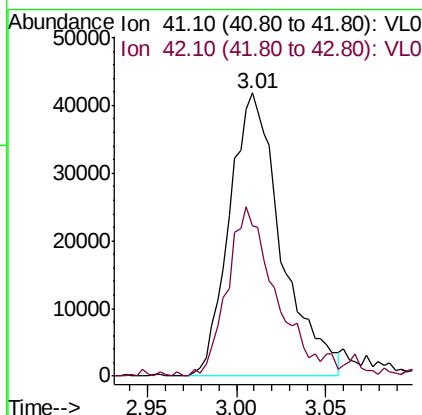
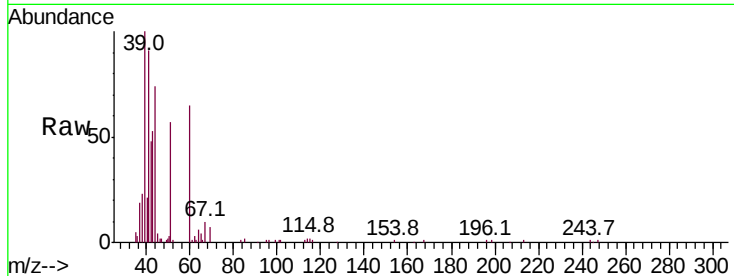
#9
 Propene
 Concen: 0.913 ppbv
 RT: 3.01 min Scan# 69
 Delta R.T. 0.01 min
 Lab File: VL037645.D
 Acq: 17 Sep 2021 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tot Ion	Ratio	Lower	Upper
41	100		
42	60.0	57.2	85.8

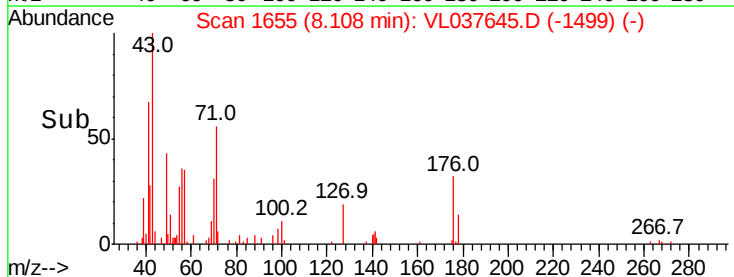
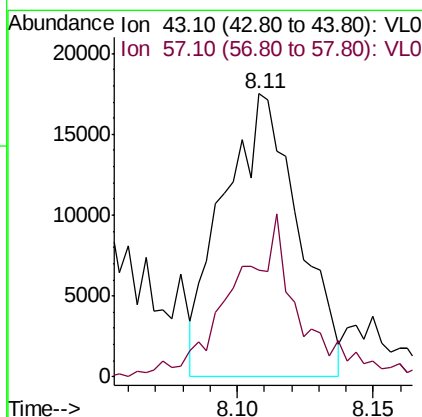
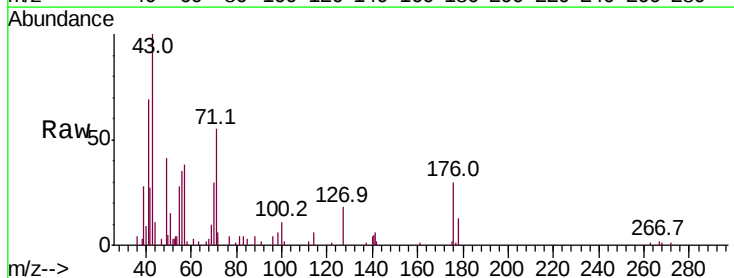
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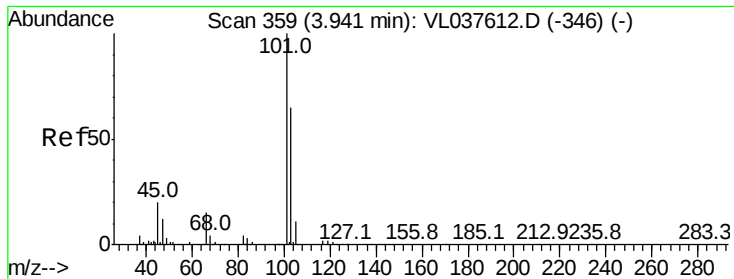
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#10
 Heptane
 Concen: 0.154 ppbv m
 RT: 8.11 min Scan# 1655
 Delta R.T. 0.00 min
 Lab File: VL037645.D
 Acq: 17 Sep 2021 17:23

Tgt Ion	Ratio	Lower	Upper
43	100		
57	51.2	40.1	60.1





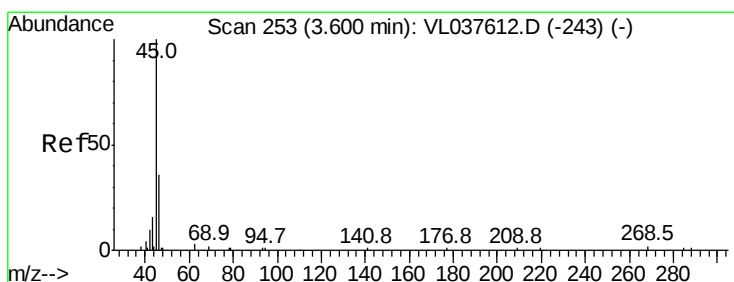
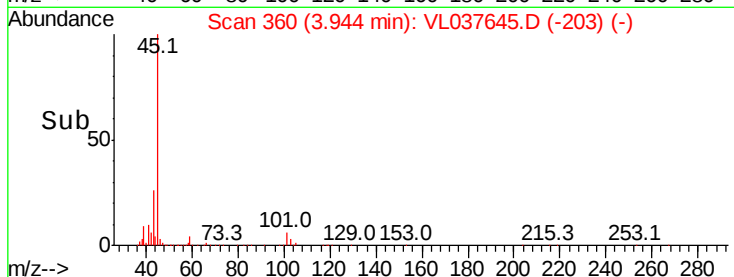
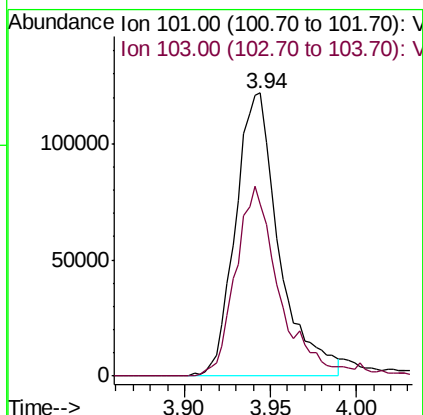
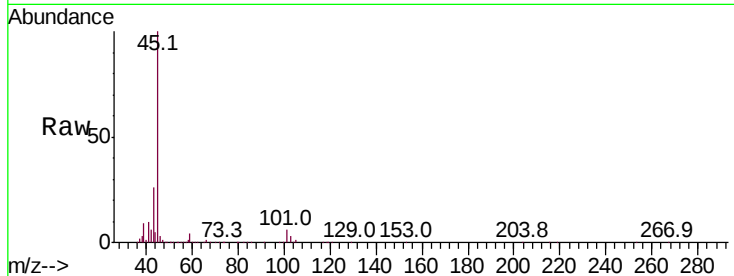
#11
 Trichlorofluoromethane
 Concen: 1.053 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. 0.00 min
 Lab File: VL037645.D
 Acq: 17 Sep 2021 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tot Ion	Ratio	Resp	Lower	Upper
101	100	214218		
103	60.4	51.9	77.9	

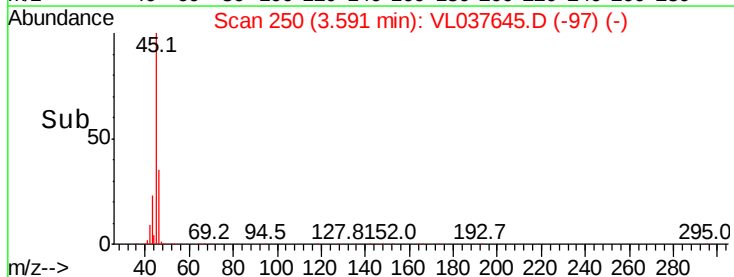
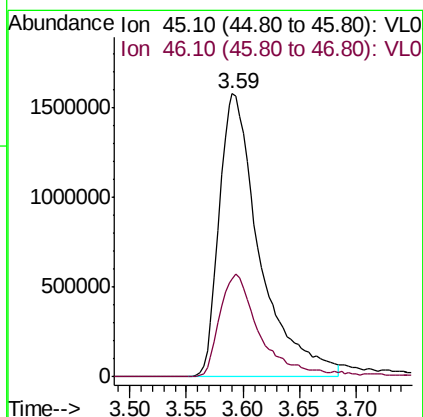
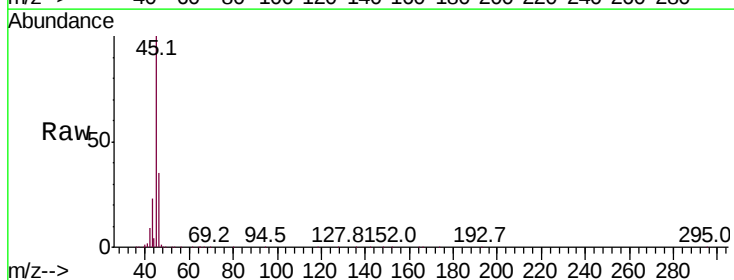
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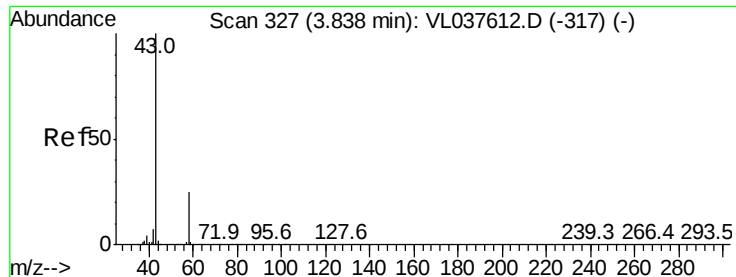
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#13
 Ethanol
 Concen: 434.375 ppbv
 RT: 3.59 min Scan# 250
 Delta R.T. -0.01 min
 Lab File: VL037645.D
 Acq: 17 Sep 2021 17:23

Tgt Ion	Ratio	Resp	Lower	Upper
45	100	3960097		
46	37.5	17.2	68.8	





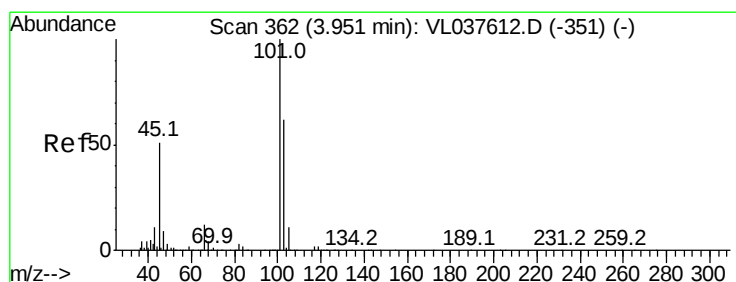
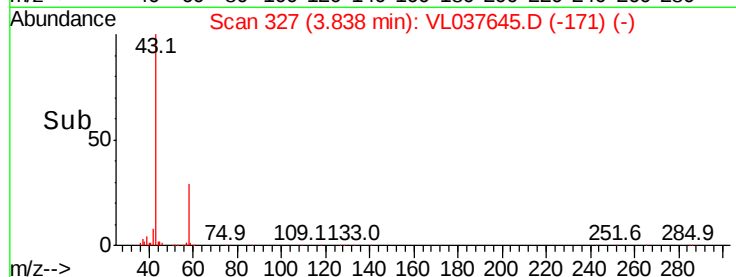
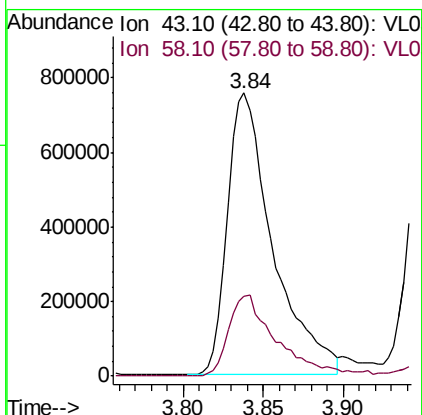
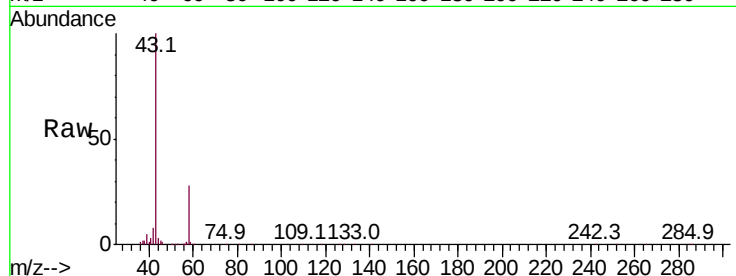
#15
Acetone
Concen: 10.059 ppbv
RT: 3.84 min Scan# 327
Delta R.T. 0.00 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion: 43 Resp: 1464086
Ion Ratio Lower Upper
43 100
58 30.6 24.9 37.3

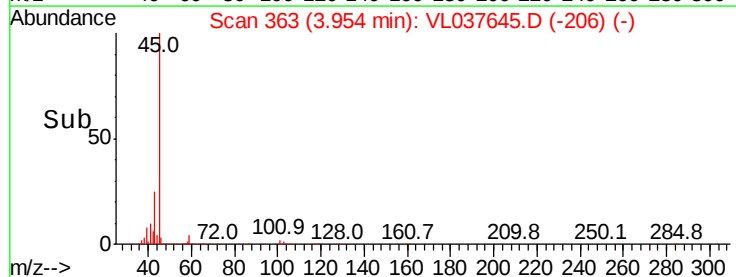
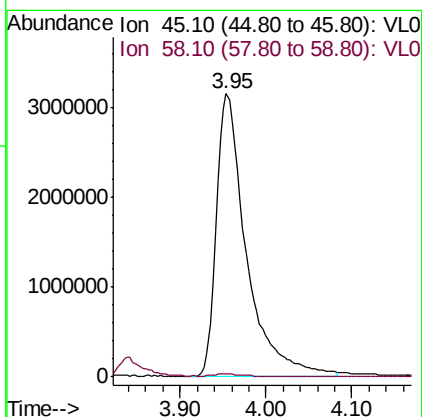
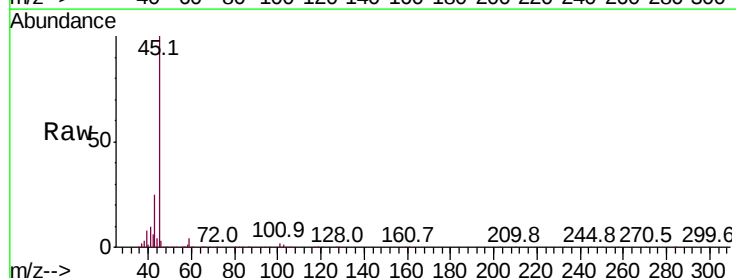
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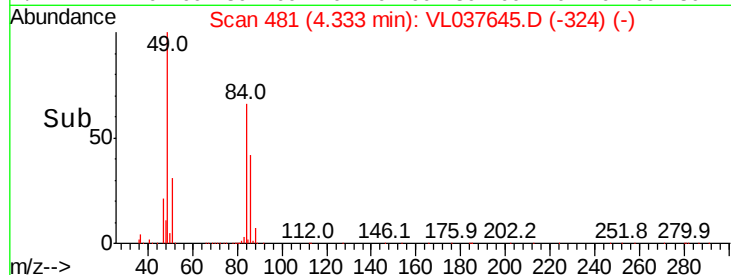
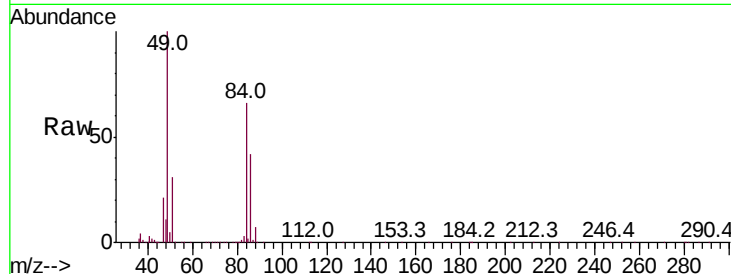
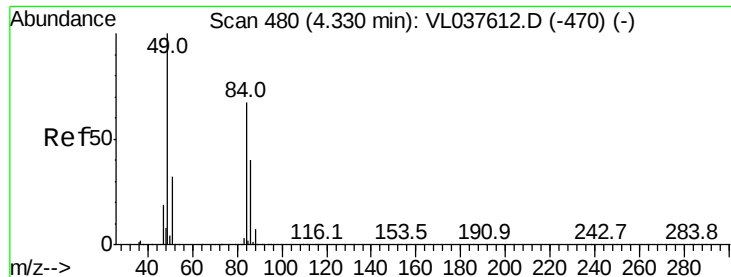
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#19
Isopropyl Alcohol
Concen: 96.648 ppbv
RT: 3.95 min Scan# 363
Delta R.T. 0.00 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

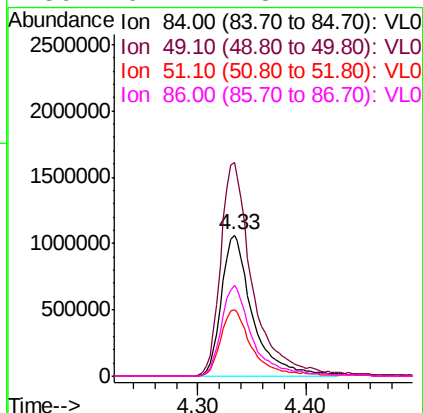
Tgt Ion: 45 Resp: 7653759
Ion Ratio Lower Upper
45 100
58 1.3 2.9 4.3#





#20
Methvlene Chloride
Concen: 30.837 ppbv
RT: 4.33 min Scan# 481
Delta R.T. 0.00 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

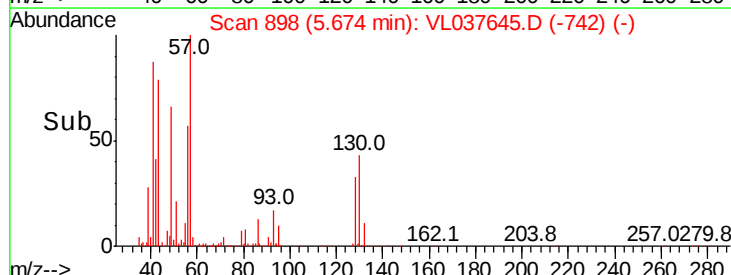
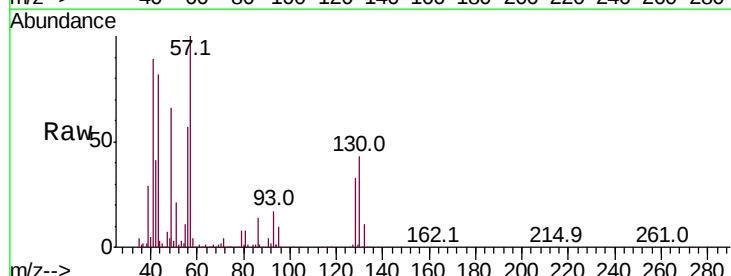
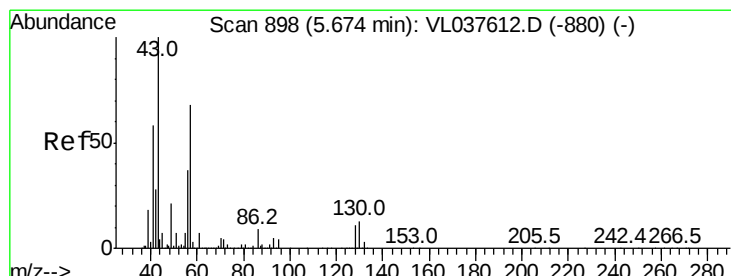
Tot Ion	84	Resp	2142679
Ion	Ratio	Lower	Upper
84	100		
49	151.5	120.0	180.0
51	47.3	38.0	57.0
86	64.1	48.2	72.2



Instrument :
MSVOA_L
ClientSampled :
IA1DUP

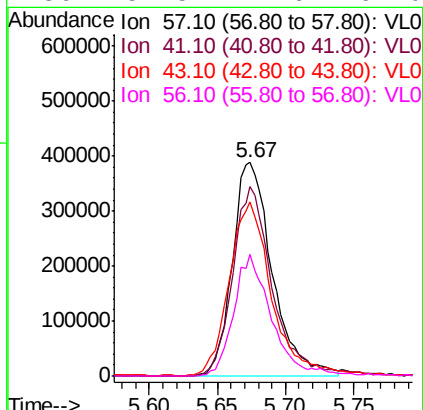
Manual Integrations
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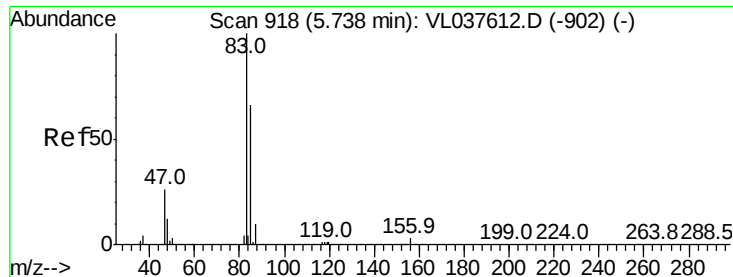
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#26
Hexane
Concen: 4.714 ppbv
RT: 5.67 min Scan# 898
Delta R.T. 0.00 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

Tgt Ion	57	Resp	789340
Ion	Ratio	Lower	Upper
57	100		
41	89.5	70.9	106.3
43	86.5	170.4	255.6#
56	54.5	42.6	64.0





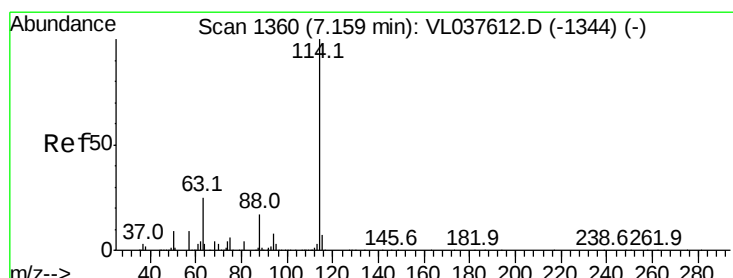
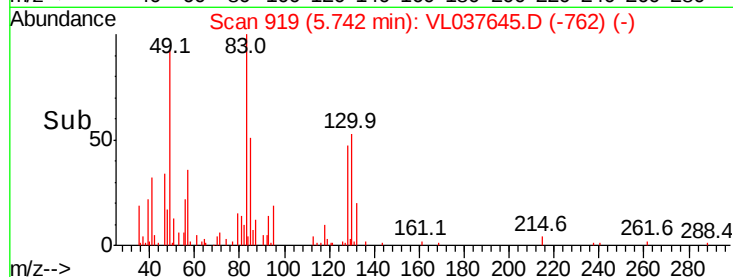
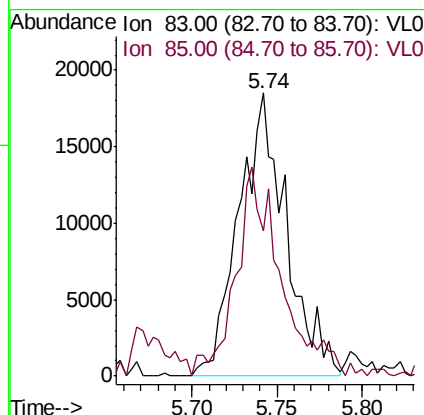
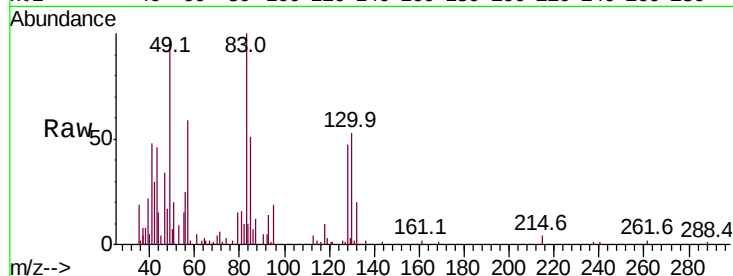
#29
Chloroform
Concen: 0.146 ppbv m
RT: 5.74 min Scan# 919
Delta R.T. 0.00 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

Instrument :
MSVOA_L
ClientSampled :
IA1DUP

Tot Ion: 83 Resp: 35821
Ion Ratio Lower Upper
83 100
85 51.3 52.6 79.0#

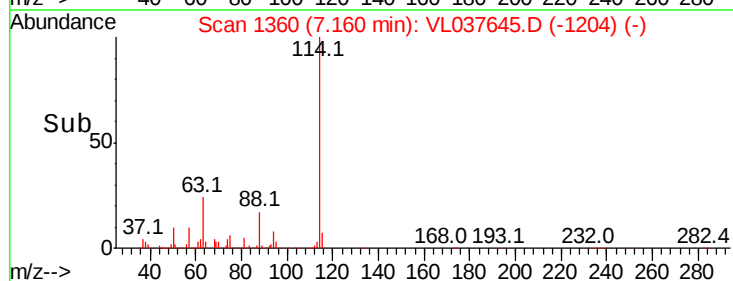
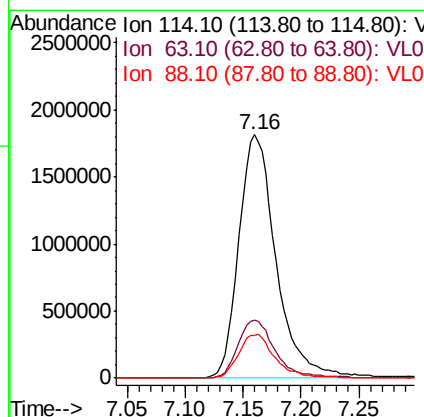
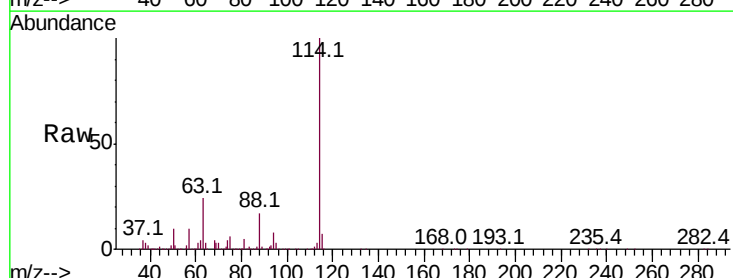
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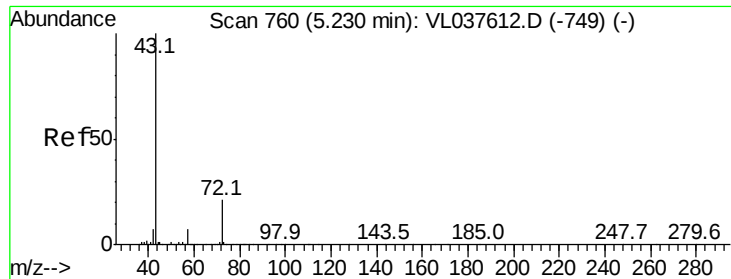
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. 0.00 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

Tgt Ion: 114 Resp: 4025009
Ion Ratio Lower Upper
114 100
63 24.2 19.6 29.4
88 17.9 14.2 21.4





#34

2-Butanone

Concen: 0.930 ppbv

RT: 5.23 min Scan# 761

Delta R.T. 0.00 min

Lab File: VL037645.D

Acq: 17 Sep 2021 17:23

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 43 Resp: 152102

Ion Ratio Lower Upper

43 100

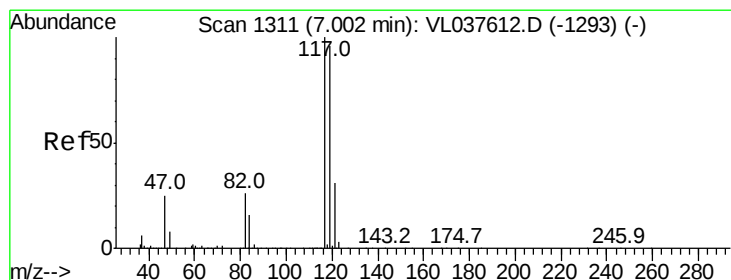
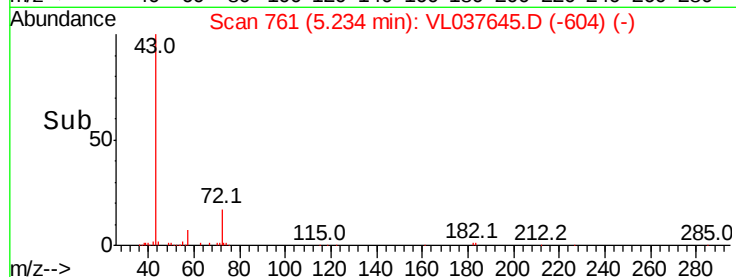
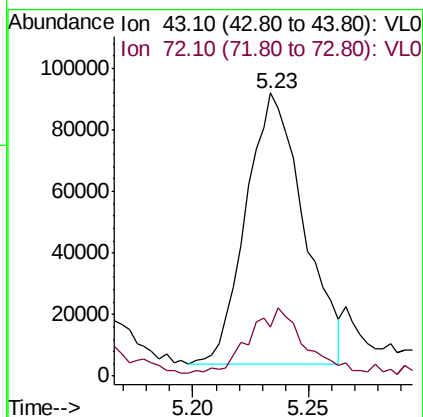
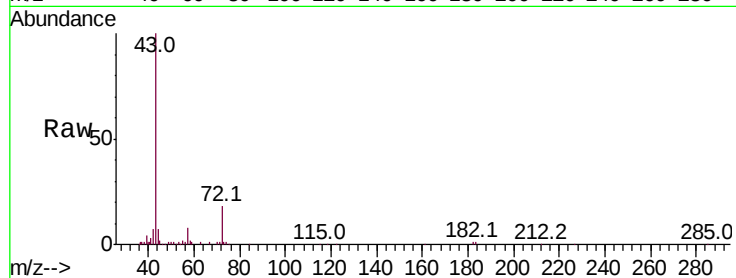
72 28.0 18.4 27.6#

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#35

Carbon Tetrachloride

Concen: 0.055 ppbv m

RT: 7.00 min Scan# 1310

Delta R.T. -0.00 min

Lab File: VL037645.D

Acq: 17 Sep 2021 17:23

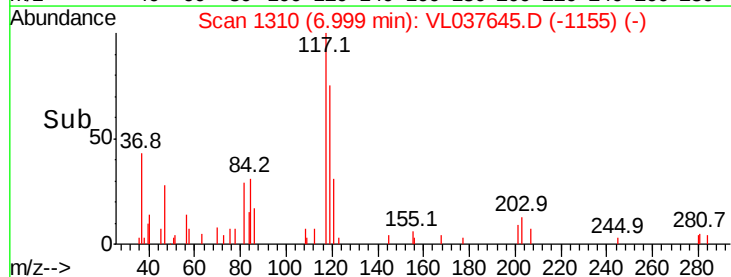
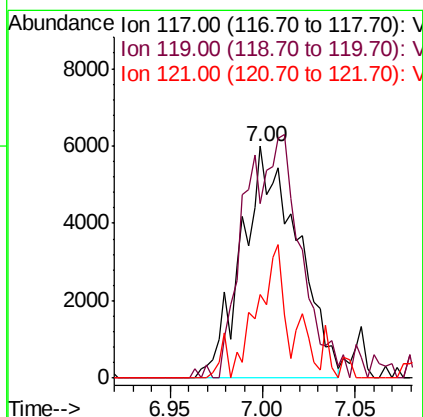
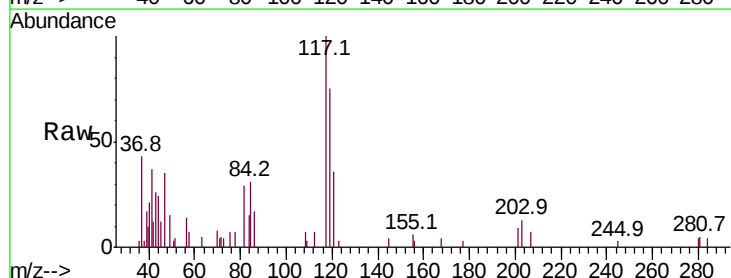
Tgt Ion: 117 Resp: 12533

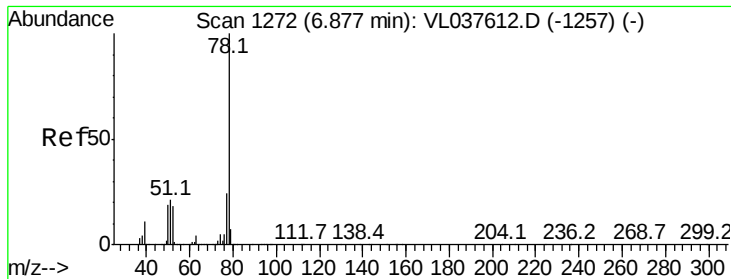
Ion Ratio Lower Upper

117 100

119 75.4 77.0 115.6#

121 36.1 24.5 36.7





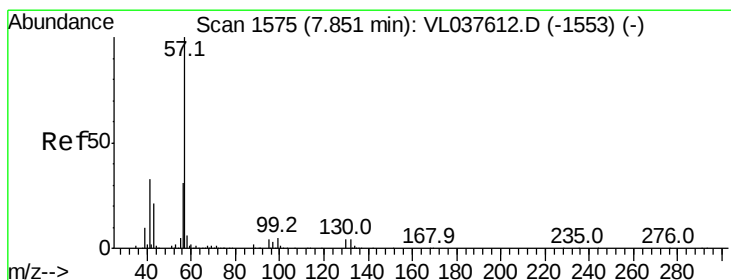
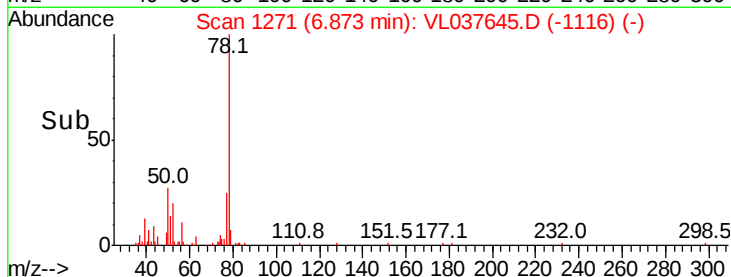
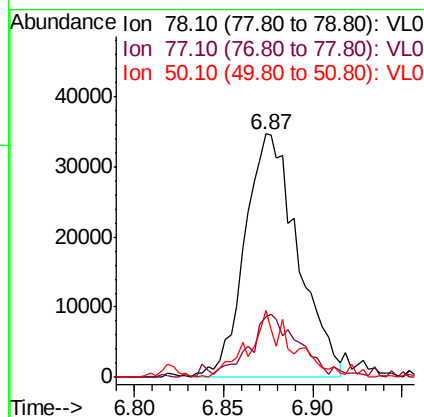
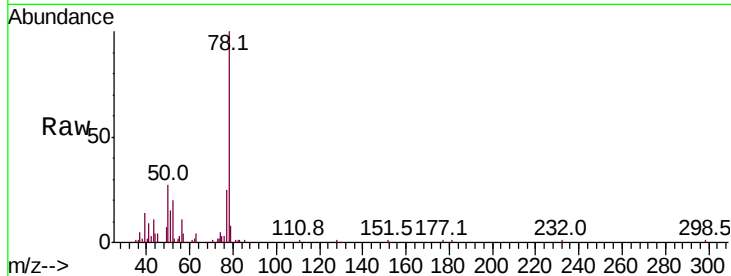
#36
Benzene
Concen: 0.214 ppbv
RT: 6.87 min Scan# 1271
Delta R.T. -0.00 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion	Ratio	Resp Lower	Upper
78	100		
77	25.1	19.0	28.4
50	26.7	14.8	22.2#

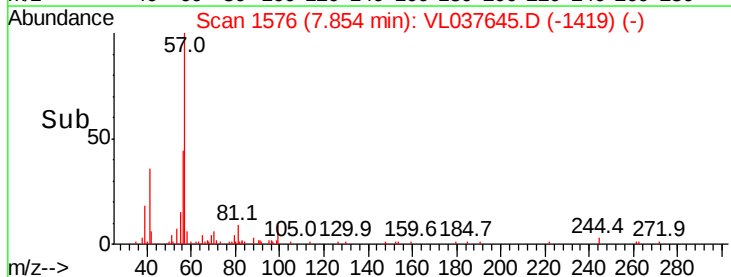
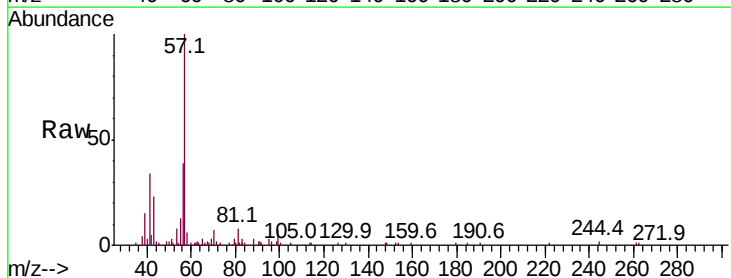
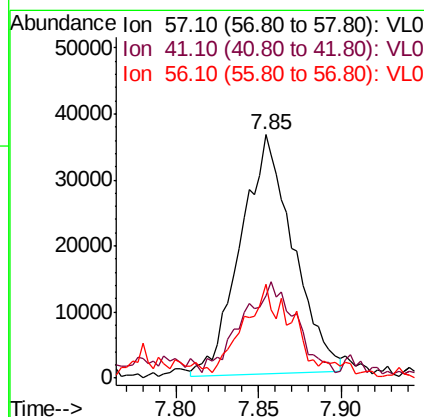
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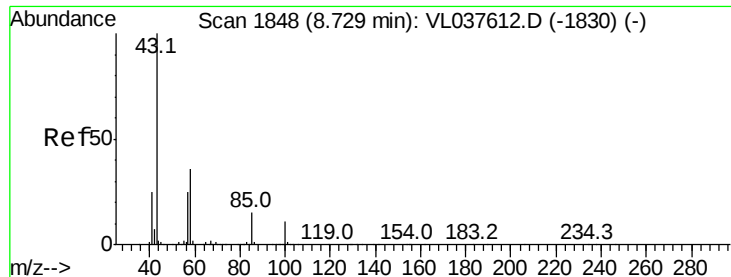
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#44
2,2,4-Trimethylpentane
Concen: 0.142 ppbv
RT: 7.85 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

Tgt Ion	Ratio	Resp Lower	Upper
57	100		
41	44.6	26.1	39.1#
56	38.9	25.7	38.5#





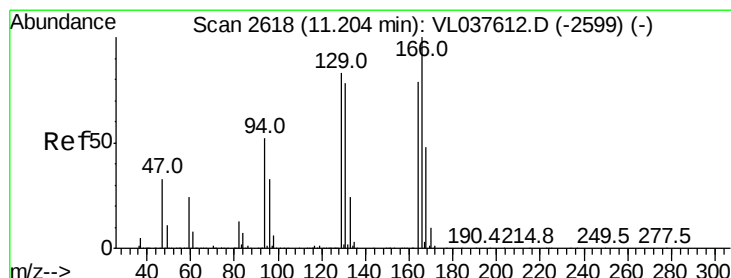
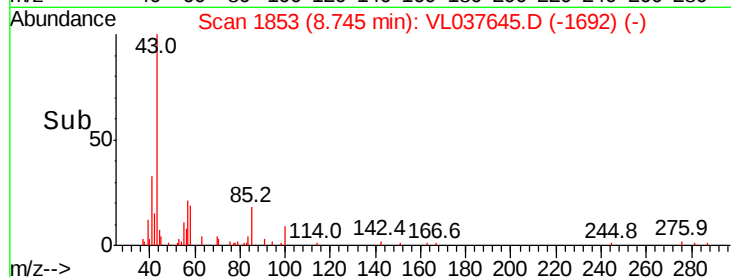
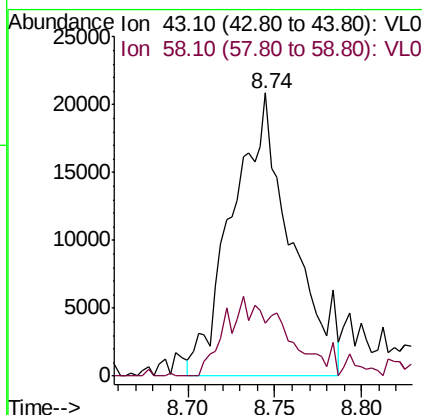
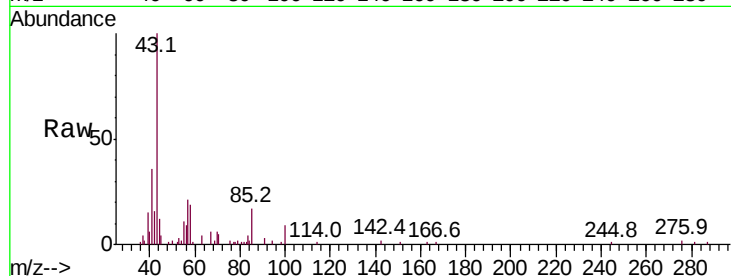
#50
4-Methyl-2-Pentanone
Concen: 0.236 ppbv m
RT: 8.74 min Scan# 1853
Delta R.T. 0.02 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion: 43 Resp: 49024
Ion Ratio Lower Upper
43 100
58 29.0 29.4 44.2#

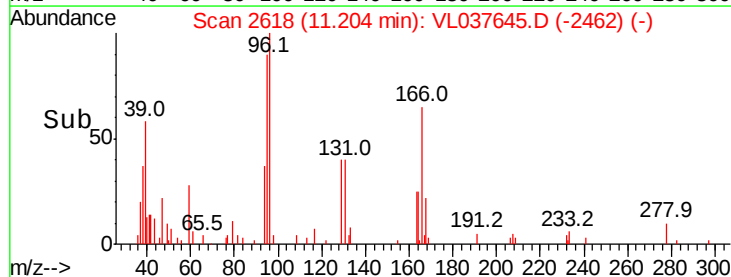
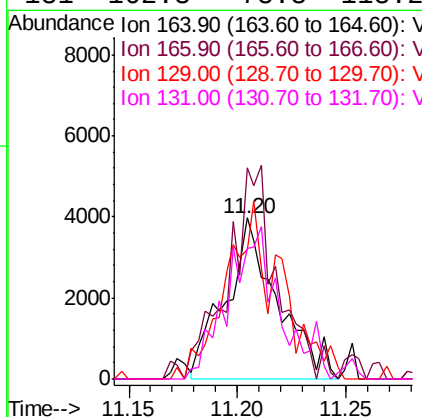
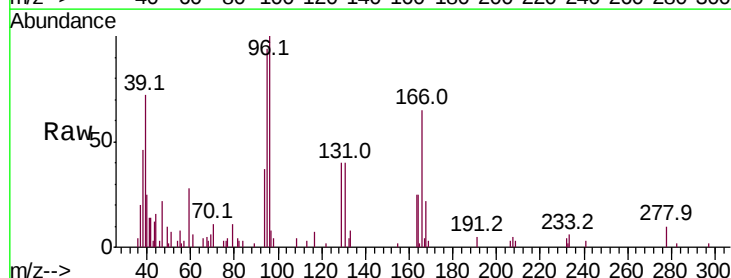
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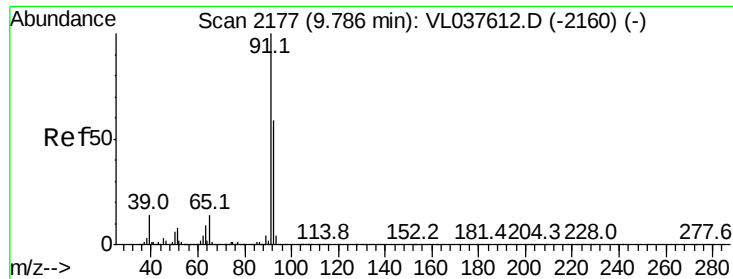
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#52
Tetrachloroethene
Concen: 0.052 ppbv m
RT: 11.20 min Scan# 2618
Delta R.T. 0.00 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

Tgt Ion: 164 Resp: 6644
Ion Ratio Lower Upper
164 100
166 260.8 101.2 151.8#
129 159.6 84.0 126.0#
131 162.3 78.8 118.2#





#53

Toluene

Concen: 0.395 ppbv m

RT: 9.79 min Scan# 2179

Delta R.T. 0.01 min

Lab File: VL037645.D

Acq: 17 Sep 2021 17:23

Instrument :

MSVOA_L

ClientSampleId :

IA1DUP

Tot Ion: 91 Resp: 147363

Ion Ratio Lower Upper

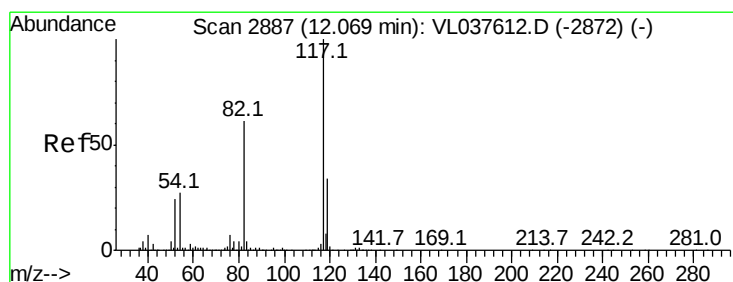
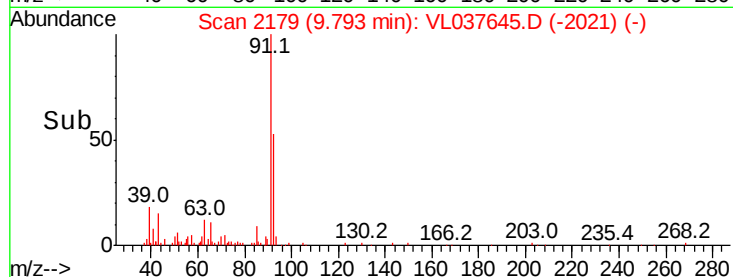
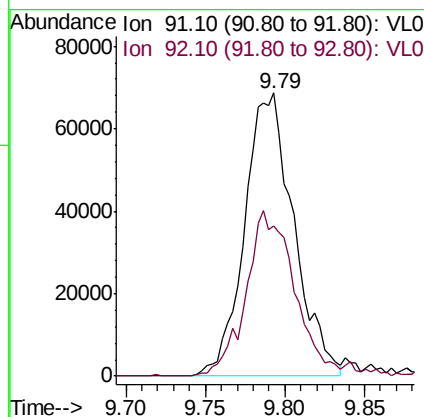
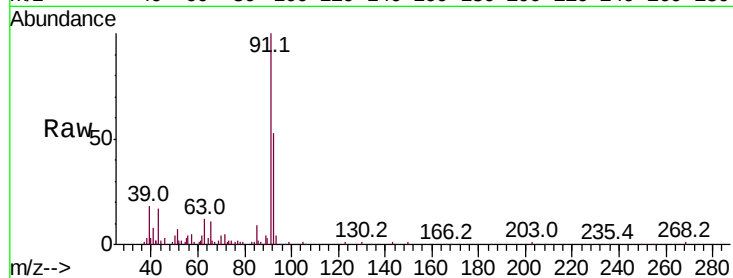
91 100

92 59.4 48.9 73.3

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2887

Delta R.T. 0.00 min

Lab File: VL037645.D

Acq: 17 Sep 2021 17:23

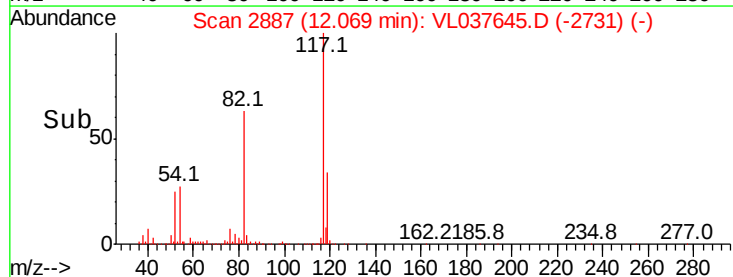
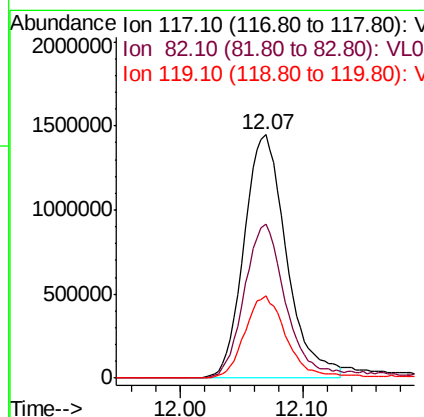
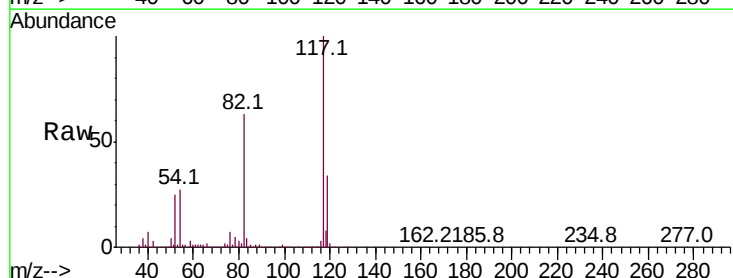
Tgt Ion: 117 Resp: 3480900

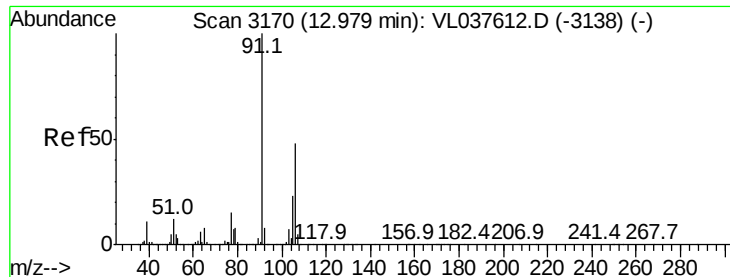
Ion Ratio Lower Upper

117 100

82 65.8 50.6 75.8

119 34.6 26.2 39.2





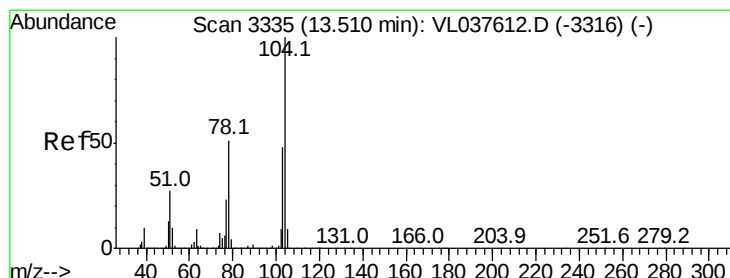
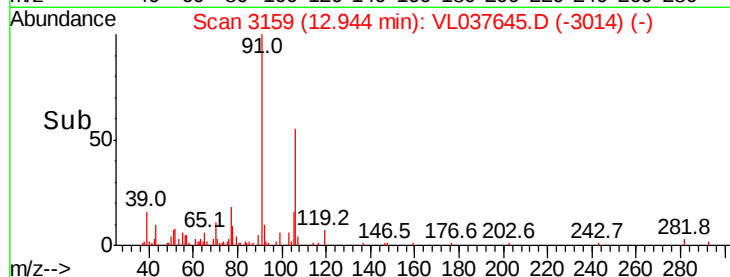
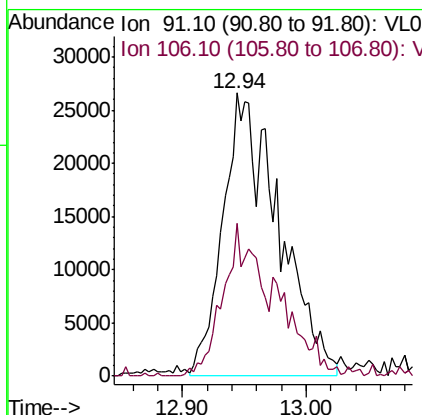
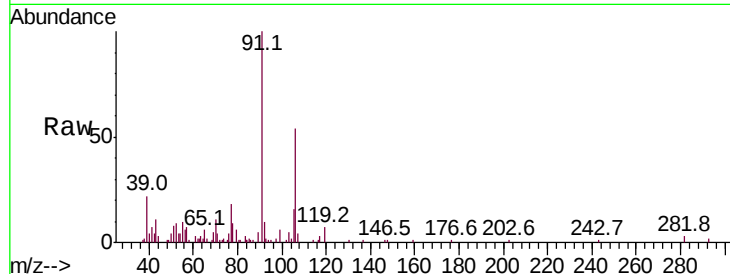
#59
m/p-Xylene
Concen: 0.207 ppbv m
RT: 12.94 min Scan# 3159
Delta R.T. -0.04 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

Instrument :
MSVOA_L
ClientSampleId :
IA1DUP

Tot Ion: 91 Resp: 83329
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

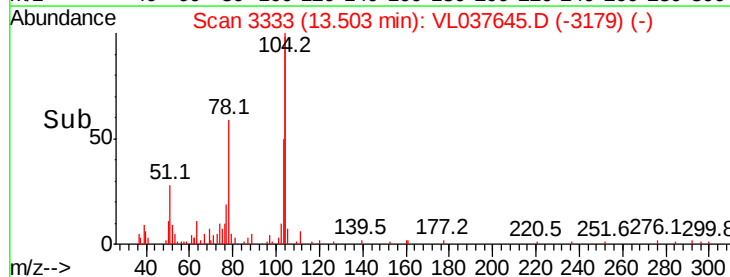
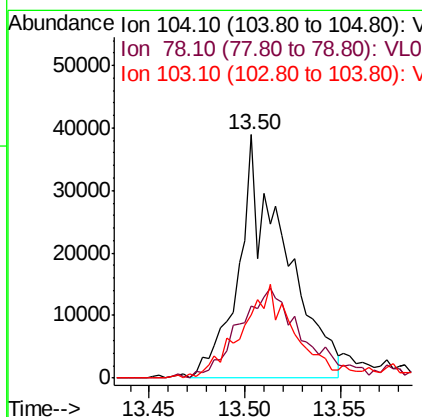
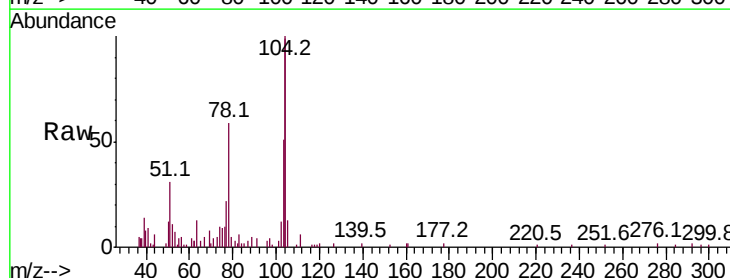
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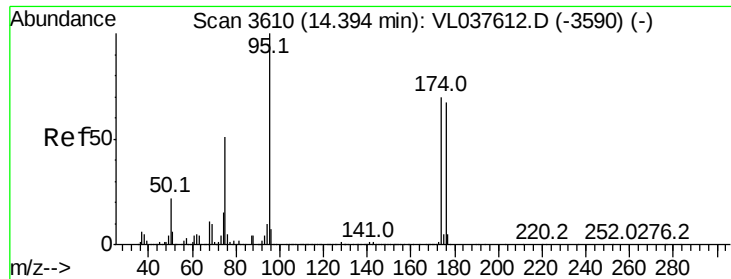
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#61
Styrene
Concen: 0.345 ppbv m
RT: 13.50 min Scan# 3333
Delta R.T. -0.01 min
Lab File: VL037645.D
Acq: 17 Sep 2021 17:23

Tgt Ion: 104 Resp: 65155
Ion Ratio Lower Upper
104 100
78 55.6 39.7 59.5
103 45.1 38.8 58.2





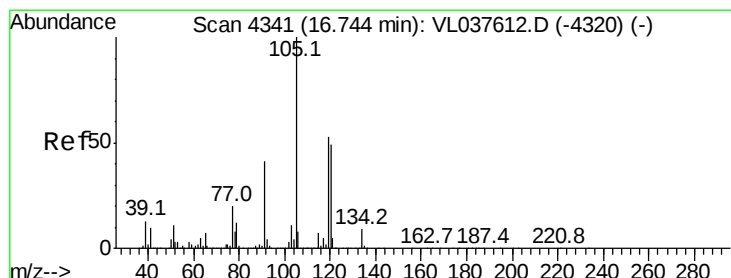
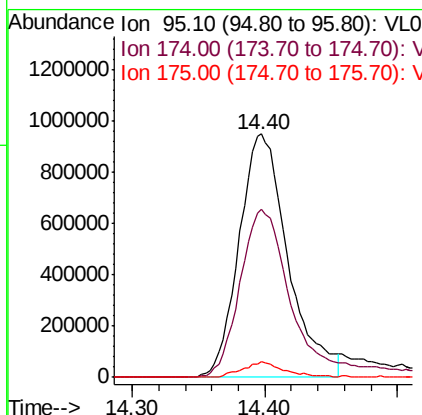
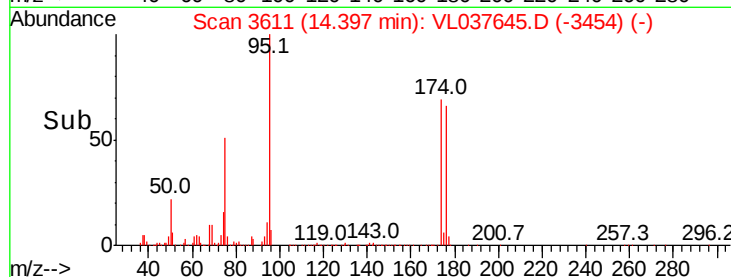
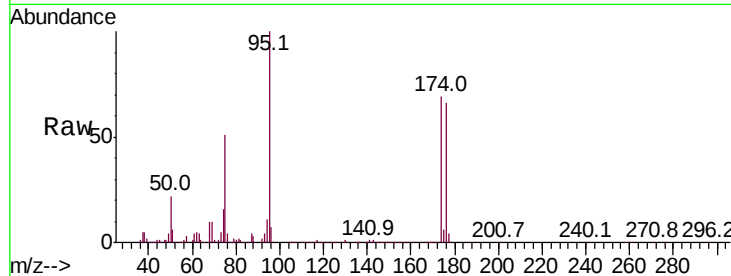
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.634 ppbv
 RT: 14.40 min Scan# 3611
 Delta R.T. 0.00 min
 Lab File: VL037645.D
 Acq: 17 Sep 2021 17:23

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DUP

Tot Ion: 95 Resp: 2423512
 Ion Ratio Lower Upper
 95 100
 174 78.4 56.3 84.5
 175 5.5 4.4 6.6

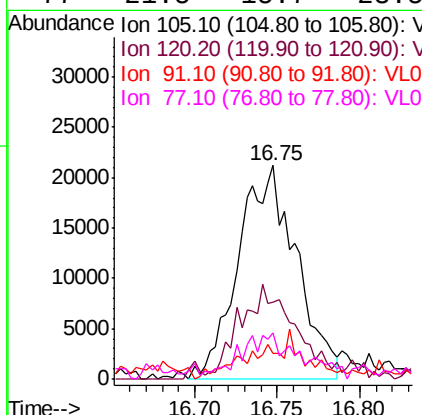
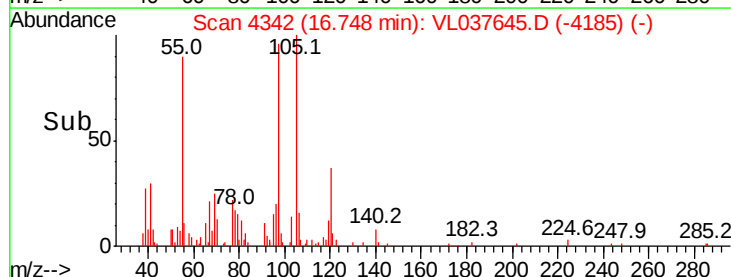
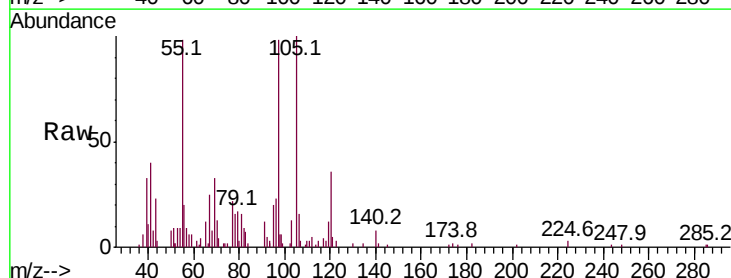
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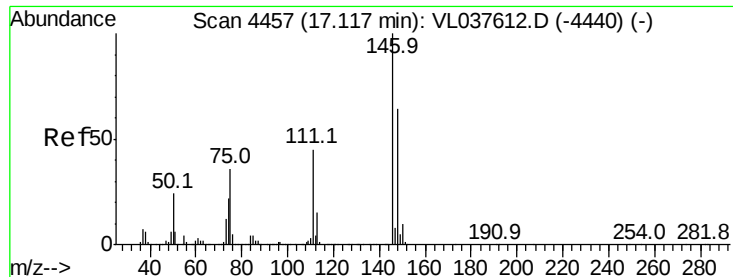
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.121 ppbv m
 RT: 16.75 min Scan# 4342
 Delta R.T. 0.00 min
 Lab File: VL037645.D
 Acq: 17 Sep 2021 17:23

Tgt Ion: 105 Resp: 52122
 Ion Ratio Lower Upper
 105 100
 120 36.3 39.4 59.0#
 91 11.8 33.3 49.9#
 77 21.5 15.7 23.5





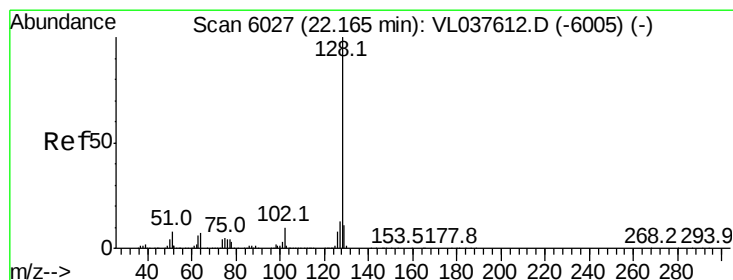
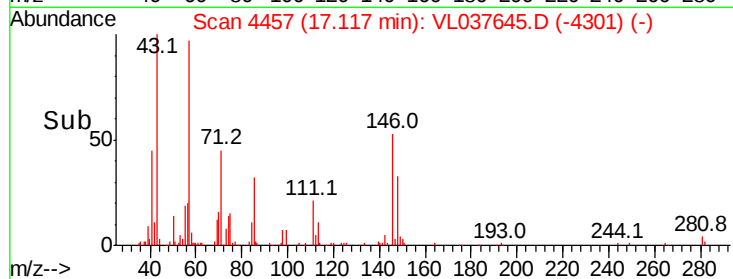
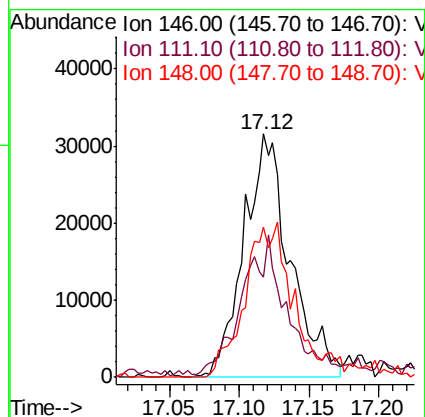
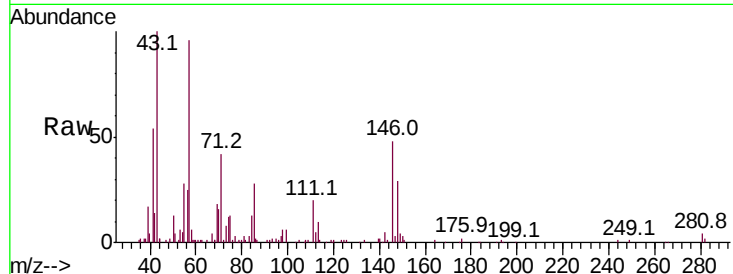
#76
 1,4-Dichlorobenzene
 Concen: 0.276 ppbv m
 RT: 17.12 min Scan# 4457
 Delta R.T. 0.00 min
 Lab File: VL037645.D
 Acq: 17 Sep 2021 17:23

Instrument :
 MSVOA_L
 ClientSampled :
 IA1DUP

Tot Ion	Ratio	Lower	Upper
146	100		
111	61.9	22.5	67.5
148	0.0	32.9	98.6#

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#79
 Naphthalene
 Concen: 0.154 ppbv m
 RT: 22.18 min Scan# 6030
 Delta R.T. 0.01 min
 Lab File: VL037645.D
 Acq: 17 Sep 2021 17:23

Tgt Ion	Ratio	Lower	Upper
128	100		
127	14.3	10.6	16.0
129	5.1	8.6	12.8#

