

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080621\
 Data File : VL037358.D
 Acq On : 7 Aug 2021 00:39
 Operator : SY/AP
 Sample : M3157-04
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INFLUENT

Manual Integrations
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 8/10/2021 6:10:00 PM

Quant Time: Aug 07 04:34:38 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080621AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 0
 QLast Update : Fri Aug 06 17:52:04 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	868557	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2854025	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	2321181	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	1640792	10.03	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	44156	0.224	ppbv	97
3) Chlorodifluoromethane	2.97	51	254226m	1.468	ppbv	
4) Chloromethane	3.13	50	22977	0.388	ppbv	97
9) Propene	3.01	41	24345	0.419	ppbv	86
10) Heptane	8.12	43	26477m	0.196	ppbv	
11) Trichlorofluoromethane	3.94	101	66353	0.393	ppbv	91
13) Ethanol	3.60	45	293635	27.388	ppbv	100
15) Acetone	3.84	43	787960	8.706	ppbv	95
17) tert-Butyl alcohol	4.30	59	9418m	0.098	ppbv	
19) Isopropyl Alcohol	3.97	45	182854m	3.338	ppbv	
20) Methylene Chloride	4.34	84	807270	10.650	ppbv	98
26) Hexane	5.68	57	422646	3.341	ppbv #	51
29) Chloroform	5.74	83	31107m	0.183	ppbv	
30) Cyclohexane	7.12	84	16398m	0.166	ppbv	
31) cis-1,2-Dichloroethene	5.54	61	134804	1.350	ppbv	96
32) 1,1,1-Trichloroethane	6.50	97	48602m	0.270	ppbv	
34) 2-Butanone	5.24	43	123408m	1.288	ppbv	
35) Carbon Tetrachloride	7.01	117	11091m	0.062	ppbv	
36) Benzene	6.88	78	87908m	0.402	ppbv	
38) Trichloroethene	7.82	130	31526	0.294	ppbv	93
44) 2,2,4-Trimethylpentane	7.86	57	158110	0.432	ppbv #	91
52) Tetrachloroethene	11.21	164	41447m	0.397	ppbv	
53) Toluene	9.80	91	531398	2.084	ppbv	98
58) Ethyl Benzene	12.70	91	44908m	0.148	ppbv	
59) m/p-Xylene	12.96	91	139299m	0.528	ppbv	
60) o-Xylene	13.67	91	47949	0.196	ppbv	92
61) Styrene	13.51	104	13679m	0.109	ppbv	
74) 1,2,4-Trimethylbenzene	16.75	105	51364m	0.179	ppbv	

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

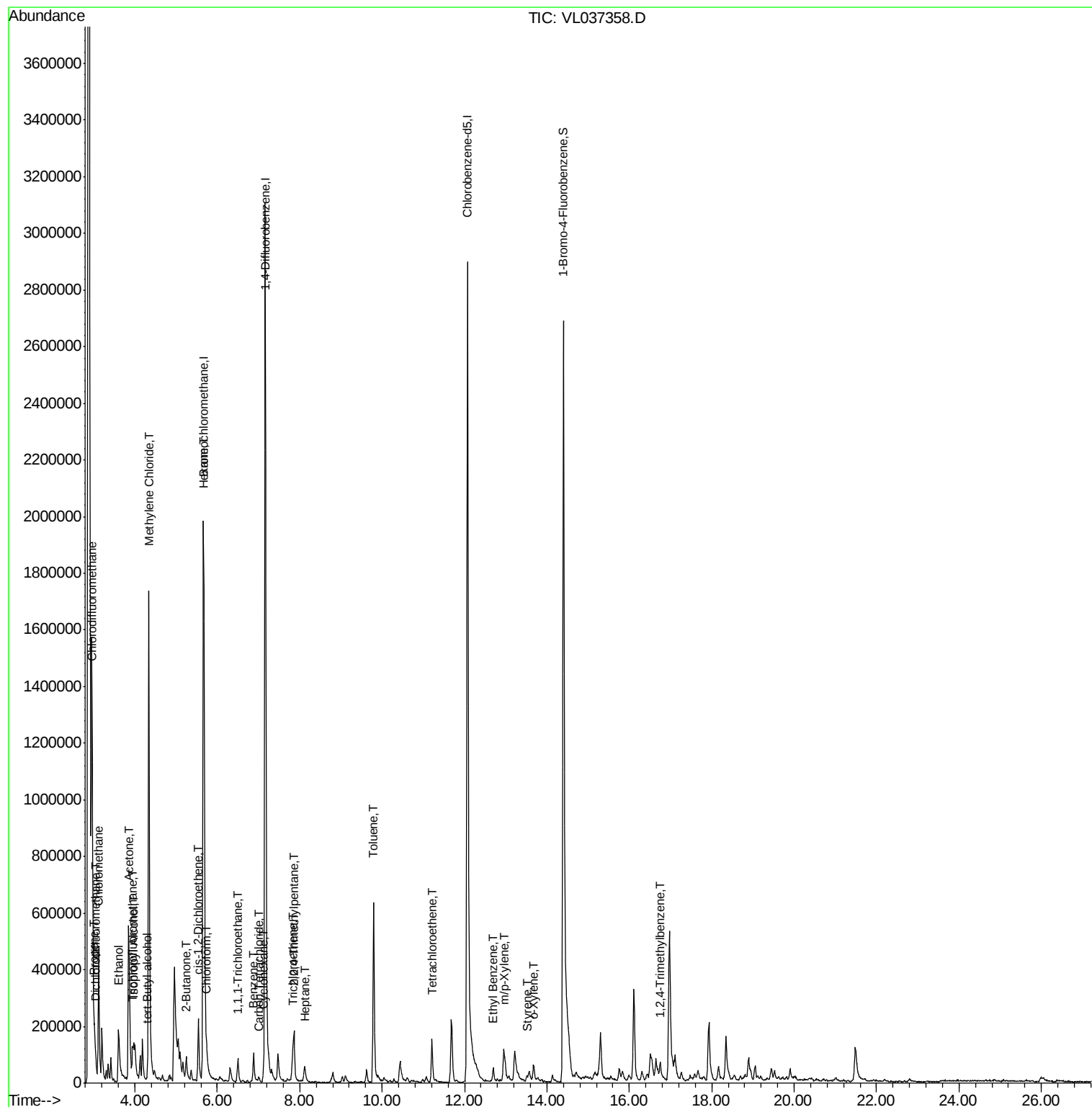
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL080621\
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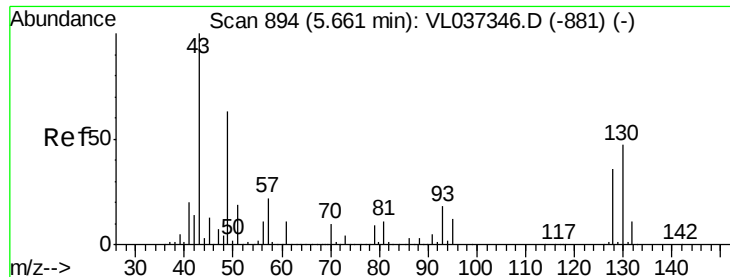
Instrument :
MSVOA_L
ClientSampleId :
SVE-INFLUENT

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Quant Time: Aug 07 04:34:38 2021
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL080621AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 06 17:52:04 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. -0.00 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Instrument :

MSVOA_L

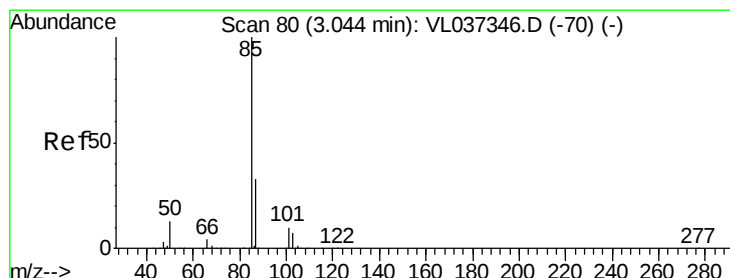
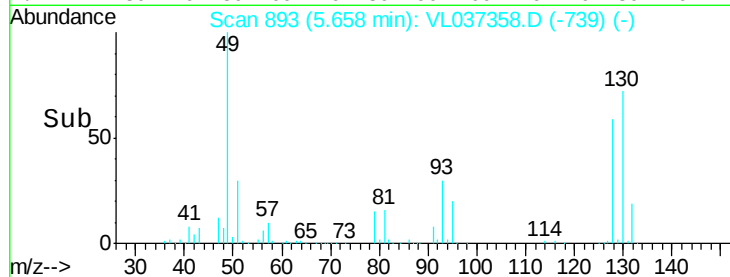
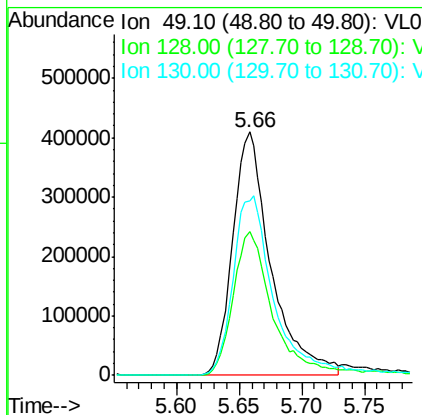
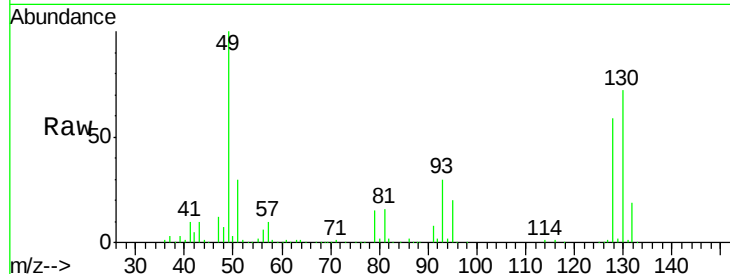
ClientSampleId :

SVE-INFLUENT

Tot Ion:	49	Resp:	868557
Ion	Ratio	Lower	Upper
49	100		
128	63.5	32.1	96.3
130	81.7	40.0	120.0

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#2

Dichlorodifluoromethane

Concen: 0.224 ppbv

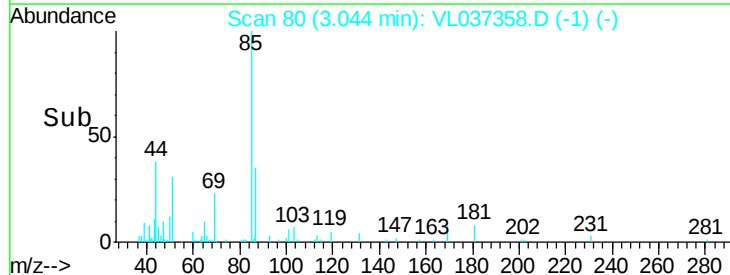
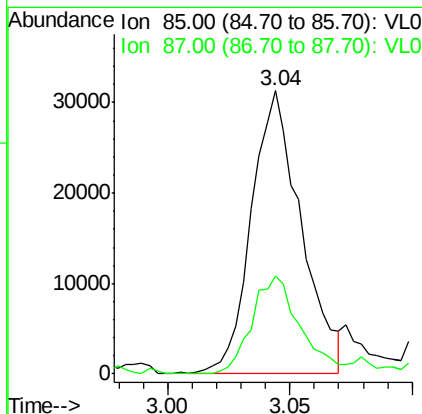
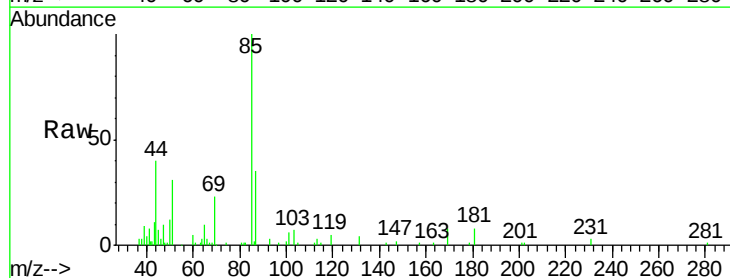
RT: 3.04 min Scan# 80

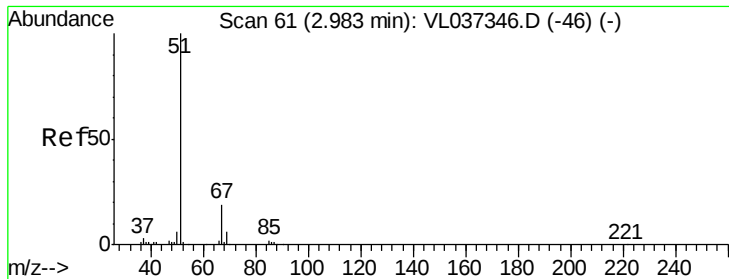
Delta R.T. -0.00 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Tgt Ion:	85	Resp:	44156
Ion	Ratio	Lower	Upper
85	100		
87	34.5	26.4	39.6





#3

Chlorodifluoromethane

Concen: 1.468 ppbv

RT: 2.97 min Scan# 58

Delta R.T. -0.01 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Instrument :

MSVOA_L

ClientSampleId :

SVE-INFLUENT

Tot Ion: 51 Resp: 254226

Ion Ratio Lower Upper

51 100

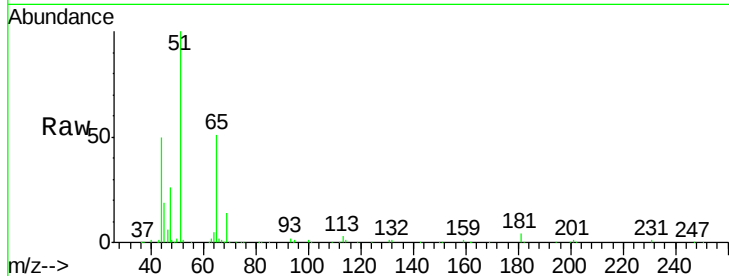
67 5.4 15.6 23.4#

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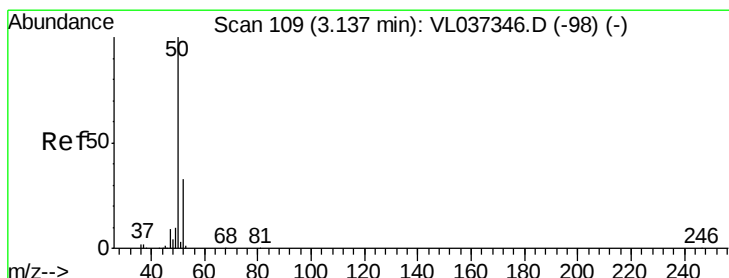
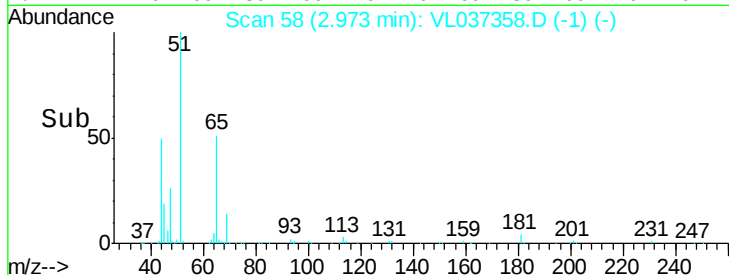
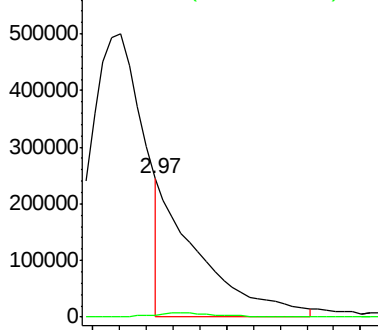
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.388 ppbv

RT: 3.13 min Scan# 107

Delta R.T. -0.01 min

Lab File: VL037358.D

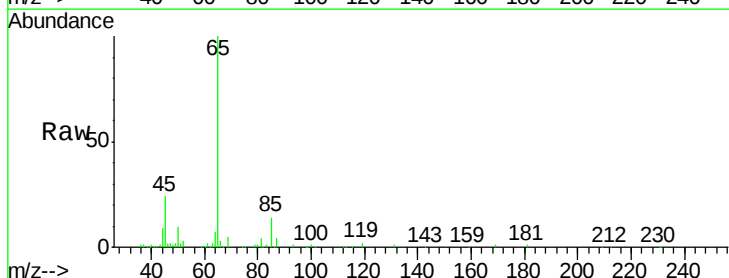
Acq: 7 Aug 2021 00:39

Tgt Ion: 50 Resp: 22977

Ion Ratio Lower Upper

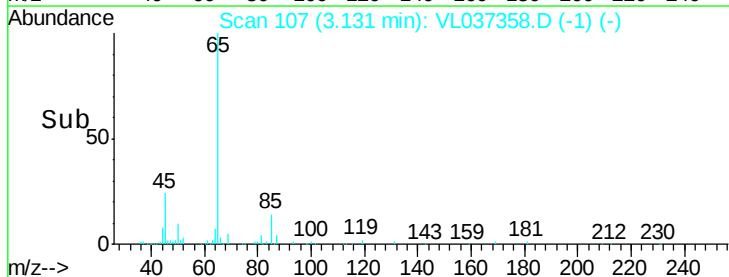
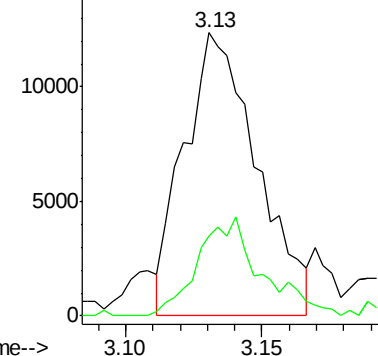
50 100

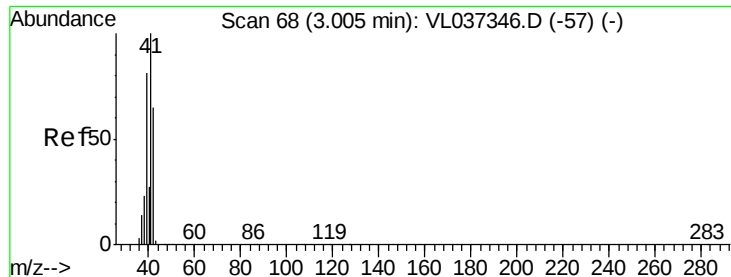
52 31.3 26.3 39.5



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.419 ppbv

RT: 3.01 min Scan# 70

Delta R.T. 0.01 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 41 Resp: 24345

Ion Ratio Lower Upper

41 100

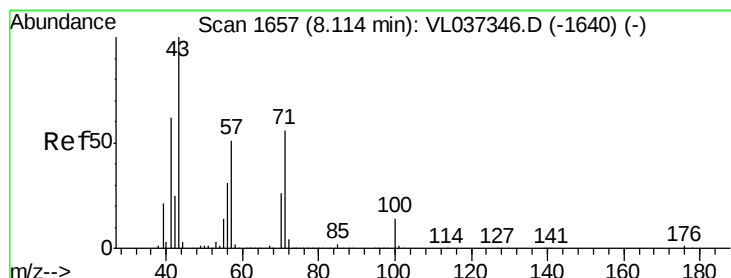
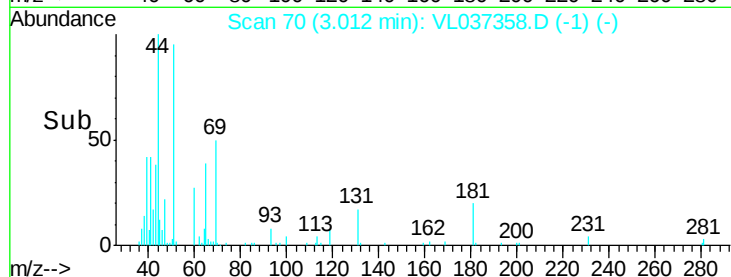
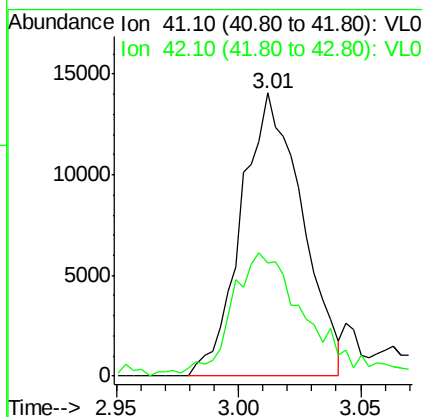
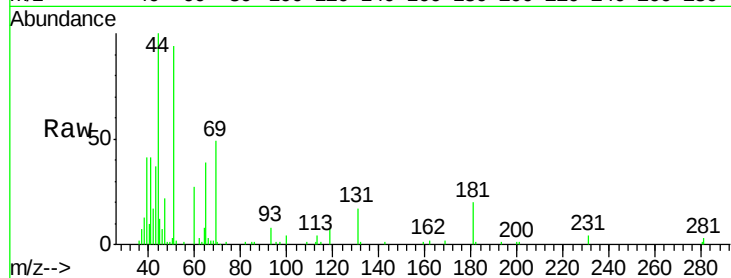
42 56.7 54.3 81.5

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#10

Heptane

Concen: 0.196 ppbv m

RT: 8.12 min Scan# 1658

Delta R.T. 0.00 min

Lab File: VL037358.D

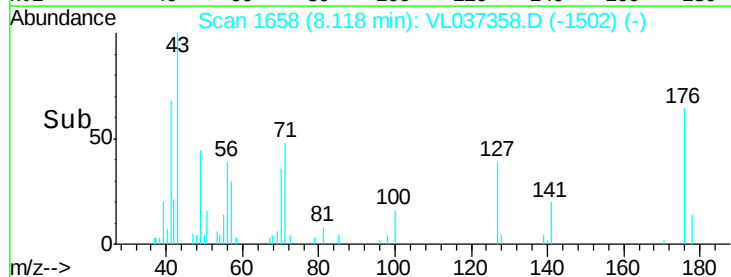
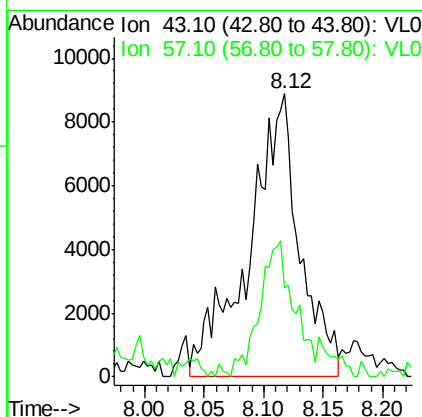
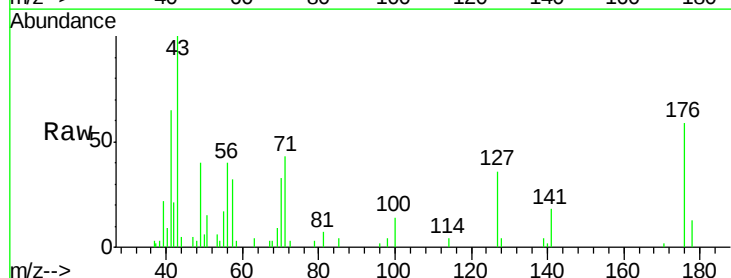
Acq: 7 Aug 2021 00:39

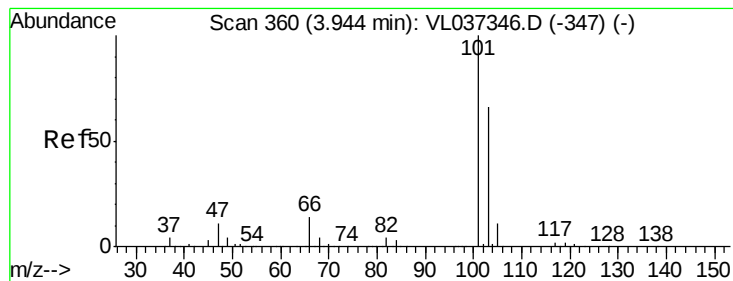
Tgt Ion: 43 Resp: 26477

Ion Ratio Lower Upper

43 100

57 0.0 41.6 62.4#





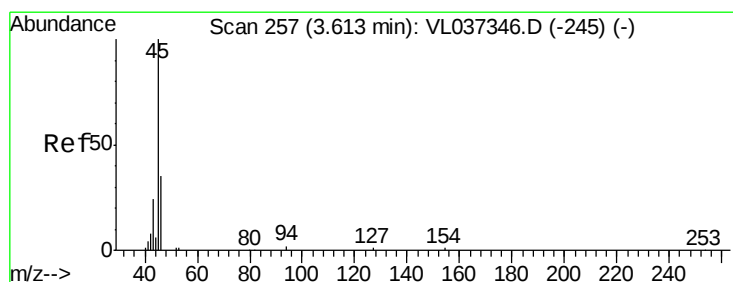
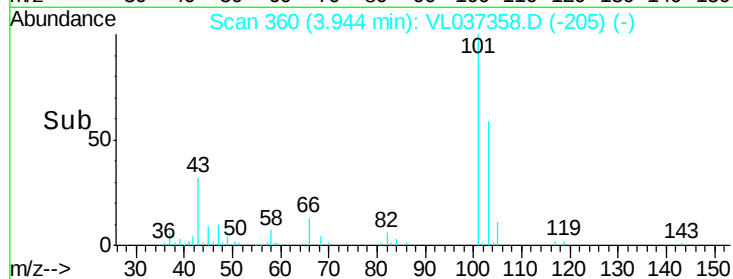
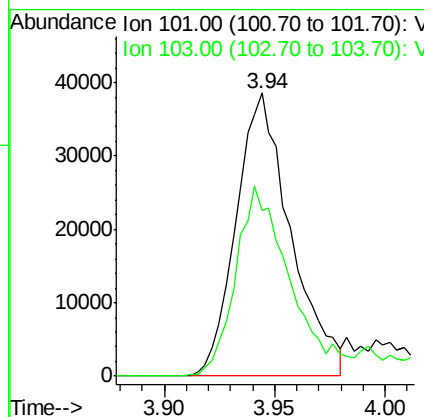
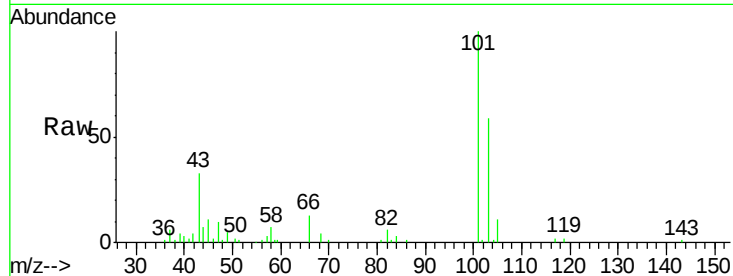
#11
 Trichlorofluoromethane
 Concen: 0.393 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.00 min
 Lab File: VL037358.D
 Acq: 7 Aug 2021 00:39

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INFLUENT

Tot Ion:101 Resp: 66353
 Ion Ratio Lower Upper
 101 100
 103 58.1 52.5 78.7

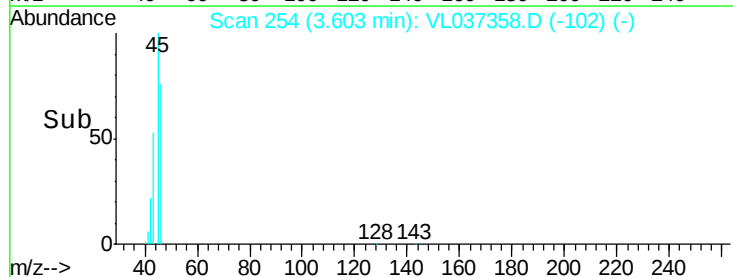
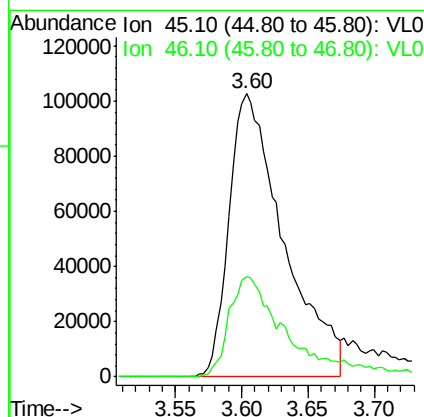
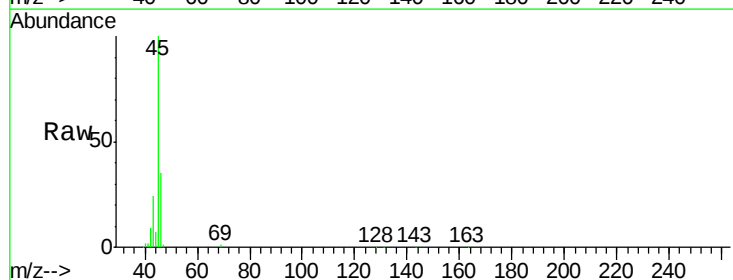
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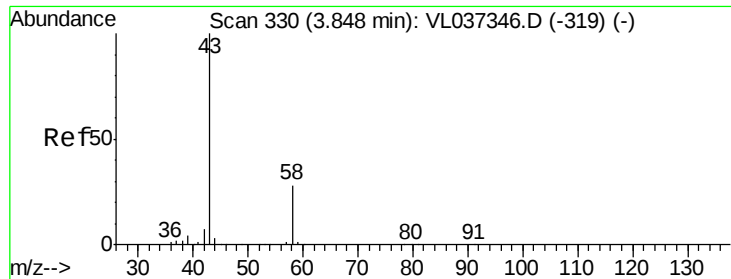
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#13
 Ethanol
 Concen: 27.388 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.01 min
 Lab File: VL037358.D
 Acq: 7 Aug 2021 00:39

Tgt Ion: 45 Resp: 293635
 Ion Ratio Lower Upper
 45 100
 46 39.1 15.7 62.9





#15

Acetone

Concen: 8.706 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.00 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Instrument :

MSVOA_L

ClientSampleId :

SVE-INFLUENT

Tot Ion: 43 Resp: 787960

Ion Ratio Lower Upper

43 100

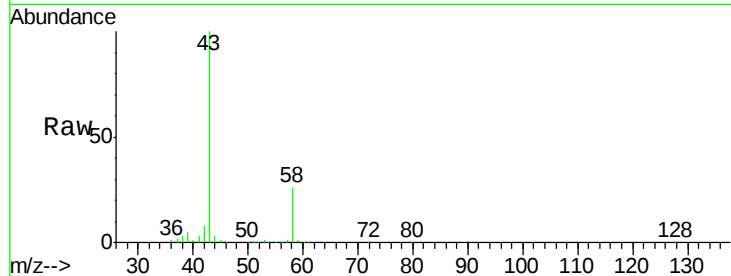
58 28.1 24.6 36.8

Manual Integrations

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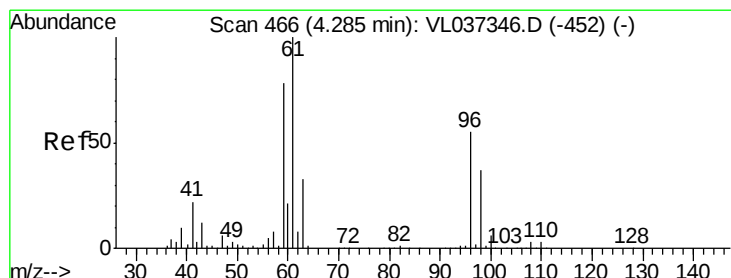
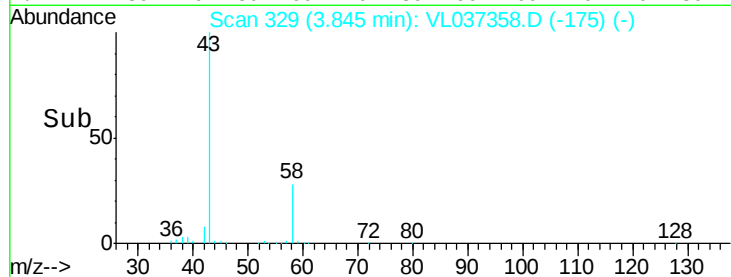
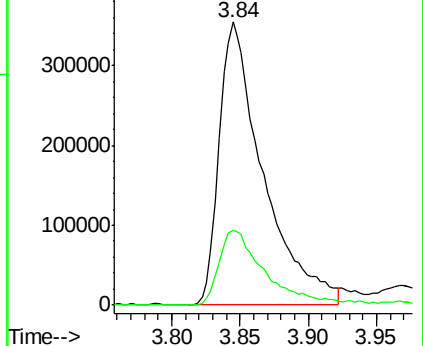
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.098 ppbv m

RT: 4.30 min Scan# 470

Delta R.T. 0.01 min

Lab File: VL037358.D

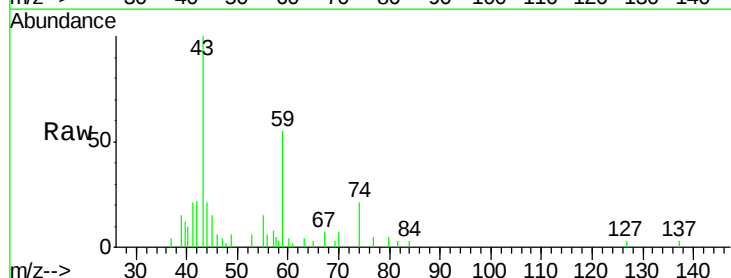
Acq: 7 Aug 2021 00:39

Tgt Ion: 59 Resp: 9418

Ion Ratio Lower Upper

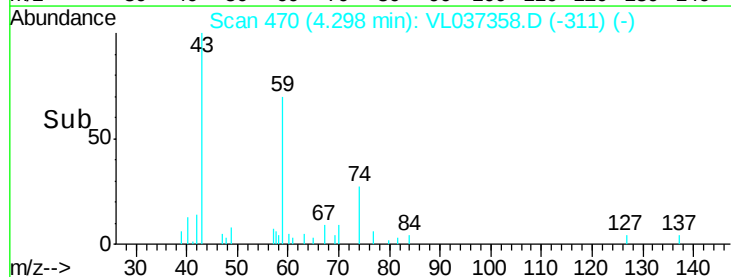
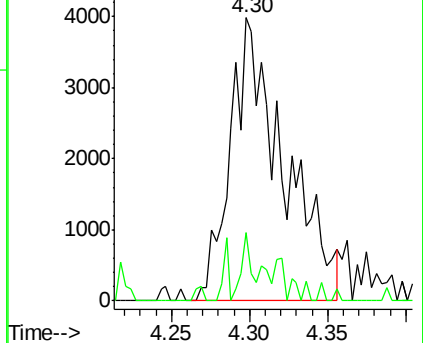
59 100

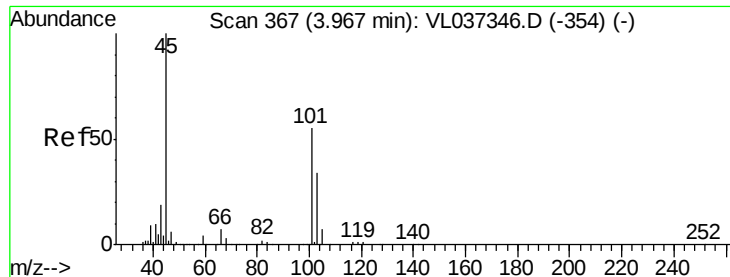
57 0.0 8.7 13.1#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





#19

Isopropyl Alcohol

Concen: 3.338 ppbv m

RT: 3.97 min Scan# 368

Delta R.T. 0.00 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Instrument :

MSVOA_L

ClientSampleId :

SVE-INFLUENT

Tot Ion: 45 Resp: 182854

Ion Ratio Lower Upper

45 100

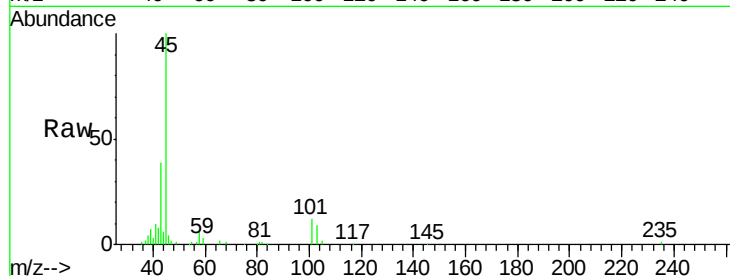
58 126.2 1.8 2.8#

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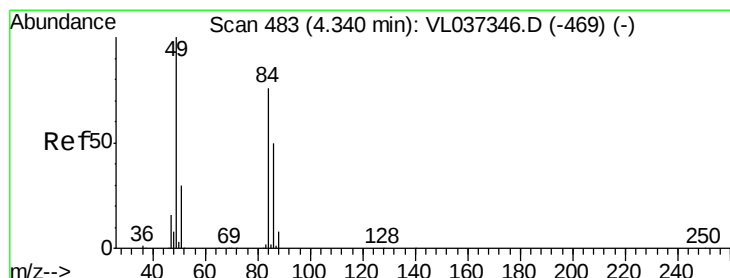
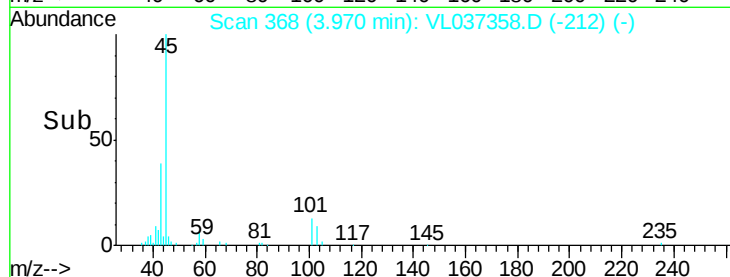
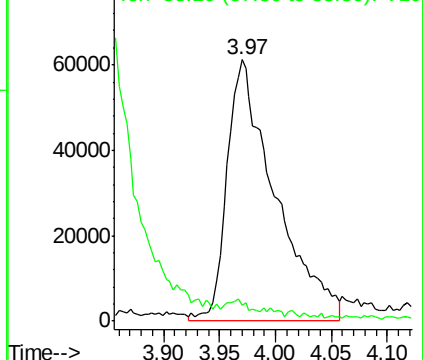
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 10.650 ppbv

RT: 4.34 min Scan# 482

Delta R.T. -0.00 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Tgt Ion: 84 Resp: 807270

Ion Ratio Lower Upper

84 100

49 136.2 107.3 160.9

51 43.4 33.0 49.4

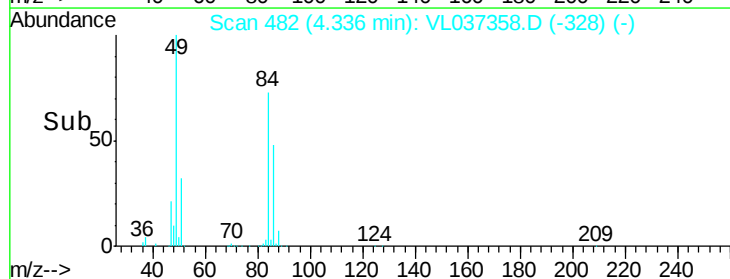
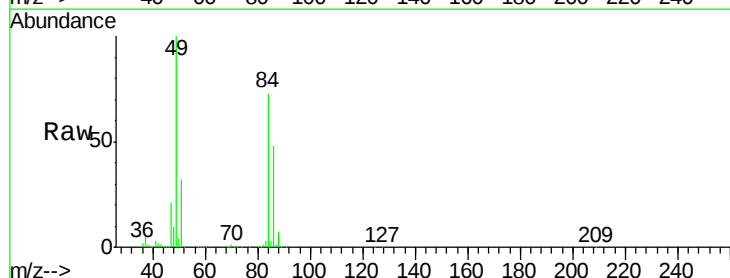
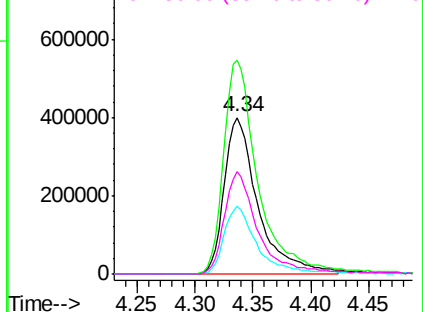
86 65.3 51.8 77.8

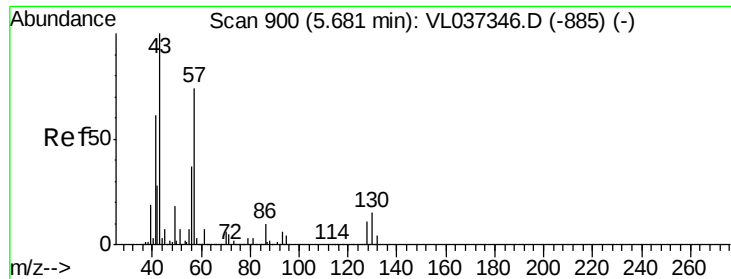
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





#26

Hexane

Concen: 3.341 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.00 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Instrument :

MSVOA_L

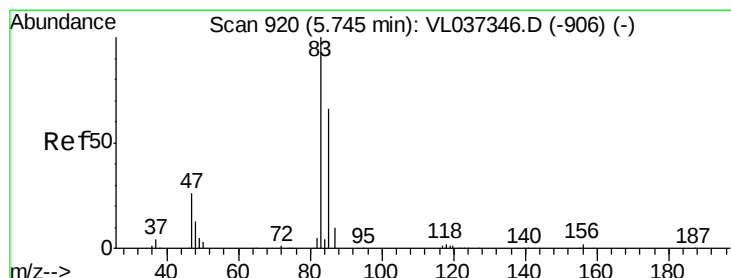
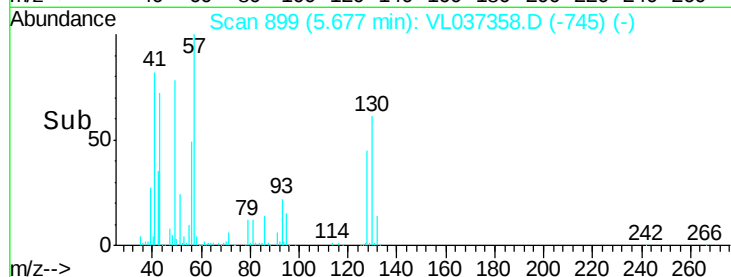
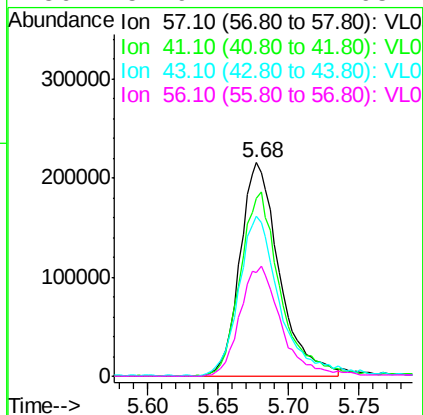
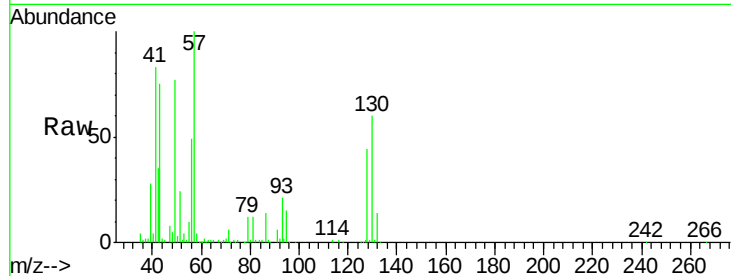
ClientSampleId :

SVE-INFLUENT

Tot Ion	57	Resp	422646
Ion Ratio	Lower	Upper	
57	100		
41	89.2	69.2	103.8
43	79.6	162.1	243.1#
56	54.9	42.2	63.4

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#29

Chloroform

Concen: 0.183 ppbv m

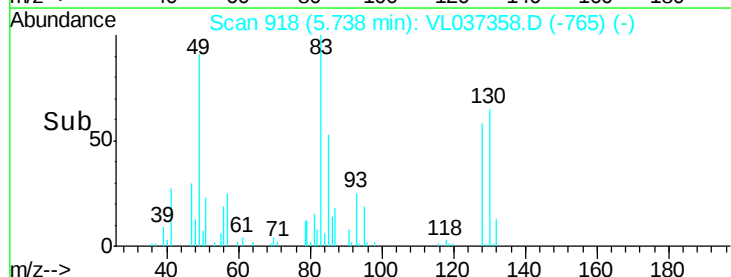
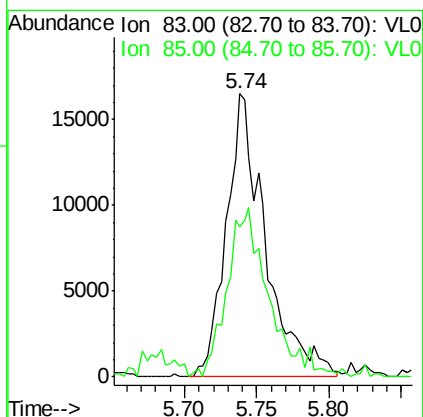
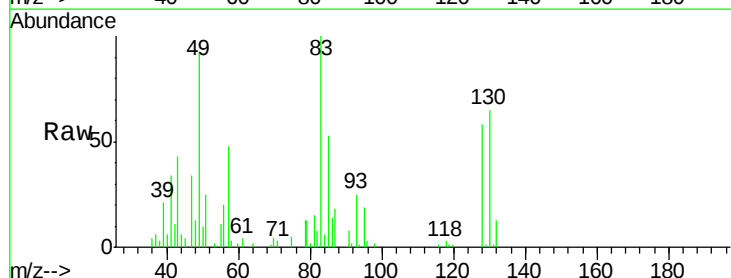
RT: 5.74 min Scan# 918

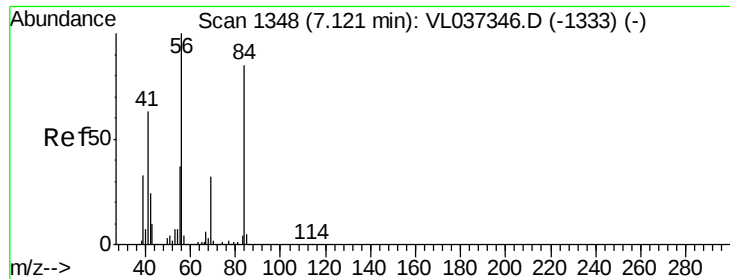
Delta R.T. -0.01 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Tgt Ion	83	Resp	31107
Ion Ratio	Lower	Upper	
83	100		
85	53.1	53.1	79.7





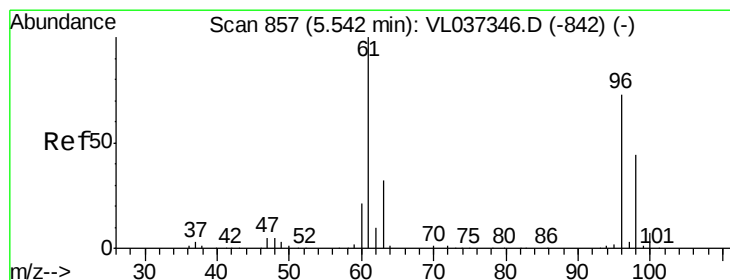
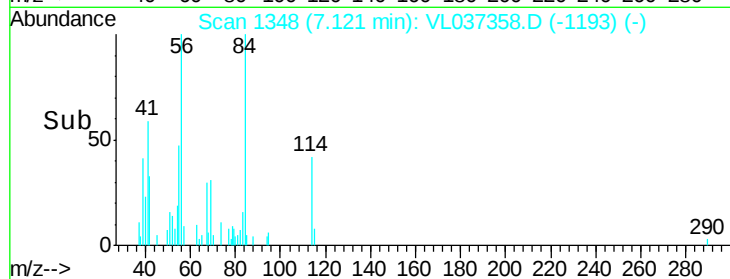
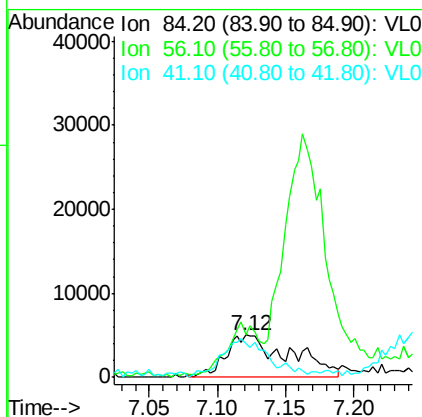
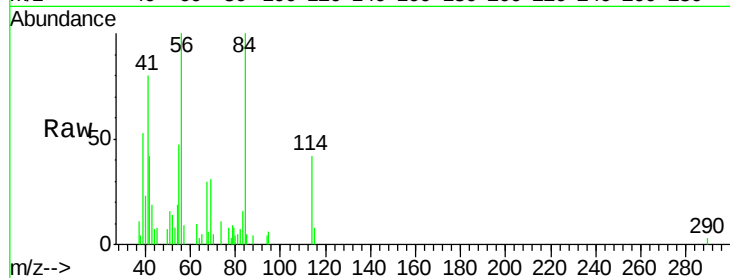
#30
Cvclohexane
Concen: 0.166 ppbv m
RT: 7.12 min Scan# 1348
Delta R.T. -0.00 min
Lab File: VL037358.D
Acq: 7 Aug 2021 00:39

Instrument :
MSVOA_L
ClientSampleId :
SVE-INFLUENT

Tot Ion	Ratio	Lower	Upper
84	100		
56	0.0	103.5	155.3#
41	67.7	61.4	92.2

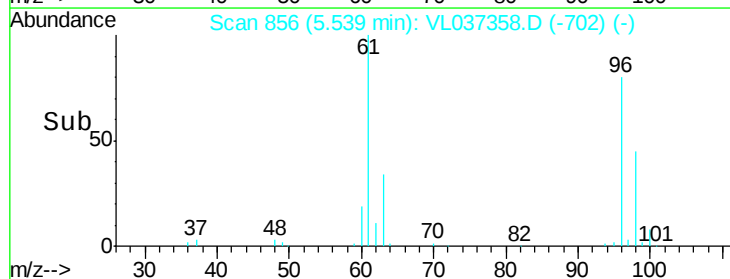
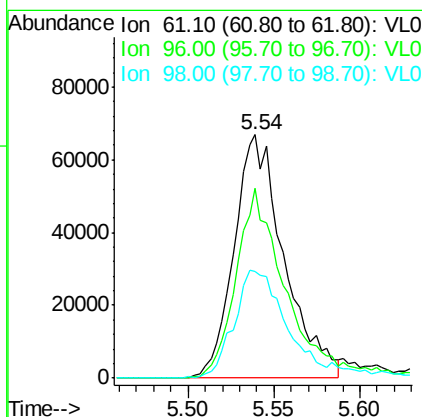
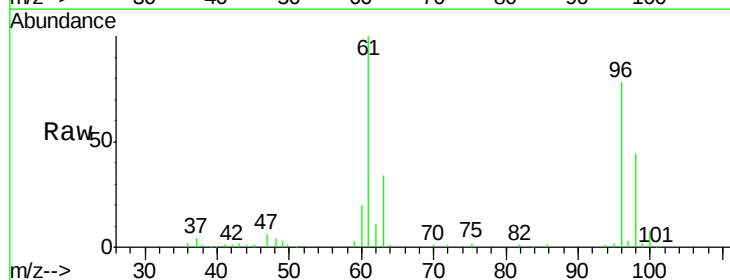
Manual Integrations
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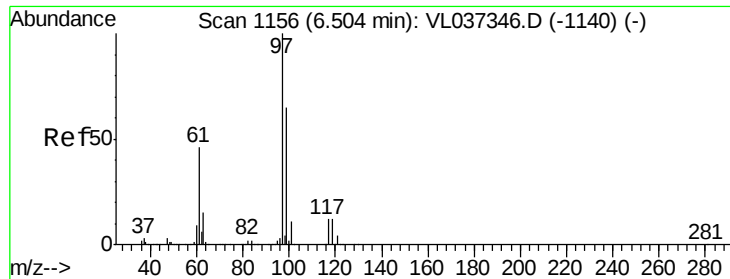
MMDadoda
8/10/2021 6:10:00 PM



#31
cis-1,2-Dichloroethene
Concen: 1.350 ppbv
RT: 5.54 min Scan# 856
Delta R.T. -0.00 min
Lab File: VL037358.D
Acq: 7 Aug 2021 00:39

Tgt Ion	Ratio	Lower	Upper
61	100		
96	78.0	58.5	87.7
98	43.3	35.1	52.7





#32

1,1,1-Trichloroethane

Concen: 0.270 ppbv m

RT: 6.50 min Scan# 1154

Delta R.T. -0.01 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Instrument :

MSVOA_L

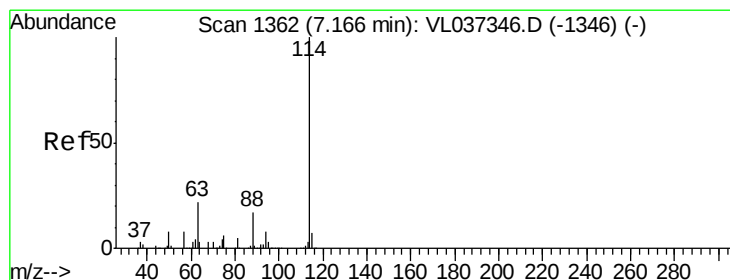
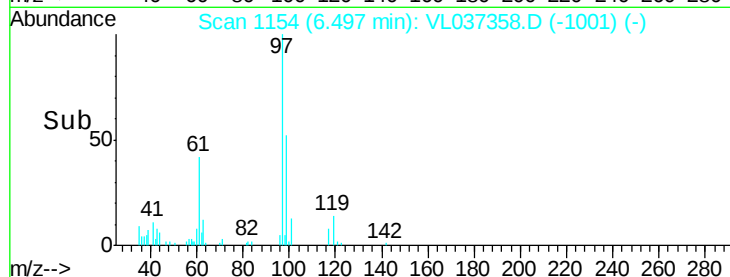
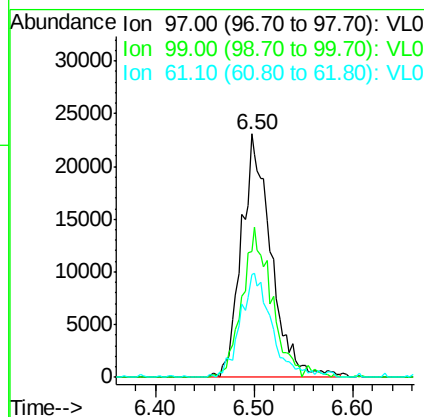
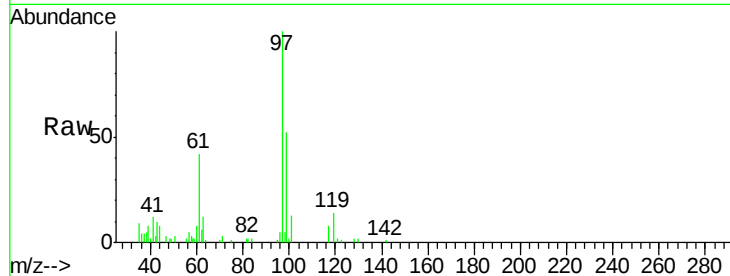
ClientSampleId :

SVE-INFLUENT

Tot Ion:	97	Resp:	48602
Ion	Ratio	Lower	Upper
97	100		
99	62.1	51.8	77.6
61	45.6	37.0	55.6

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

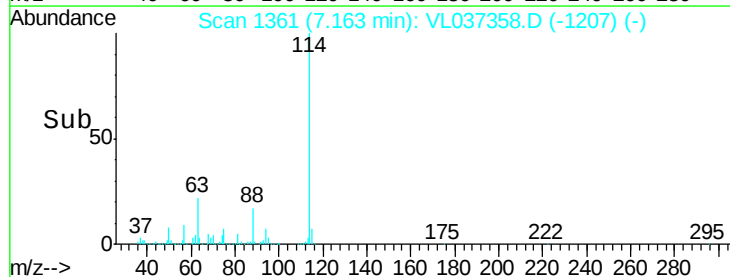
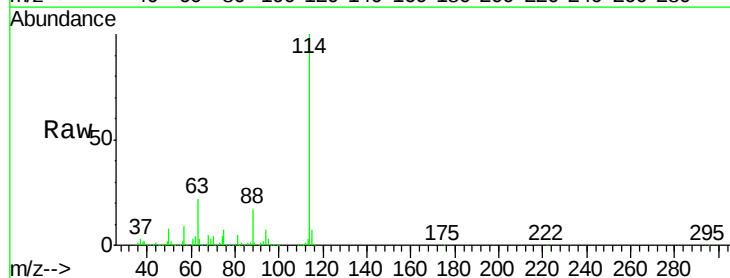
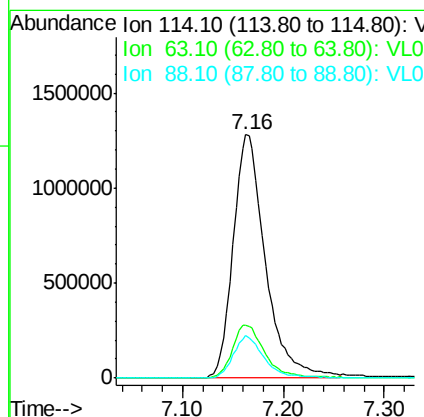
RT: 7.16 min Scan# 1361

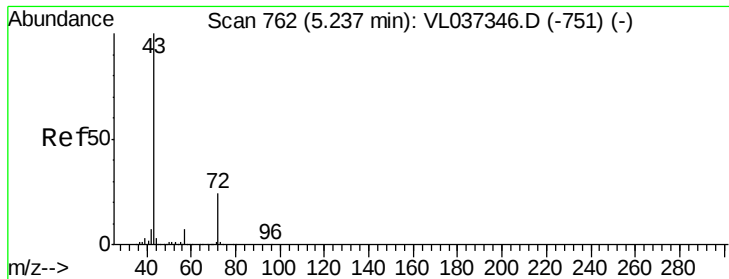
Delta R.T. -0.00 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Tgt Ion:	114	Resp:	2854025
Ion	Ratio	Lower	Upper
114	100		
63	22.3	17.8	26.6
88	17.0	13.5	20.3





#34

2-Butanone

Concen: 1.288 ppbv m

RT: 5.24 min Scan# 763

Delta R.T. 0.00 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Instrument :

MSVOA_L

ClientSampleId :

SVE-INFLUENT

Tot Ion: 43 Resp: 123408

Ion Ratio Lower Upper

43 100

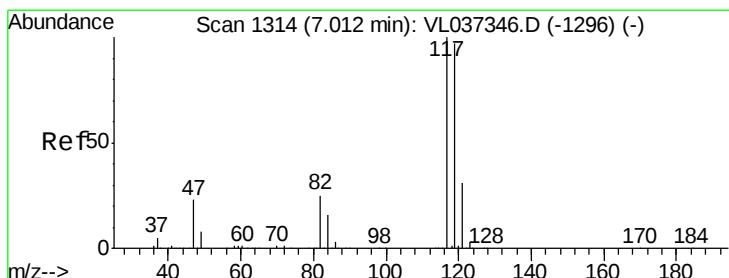
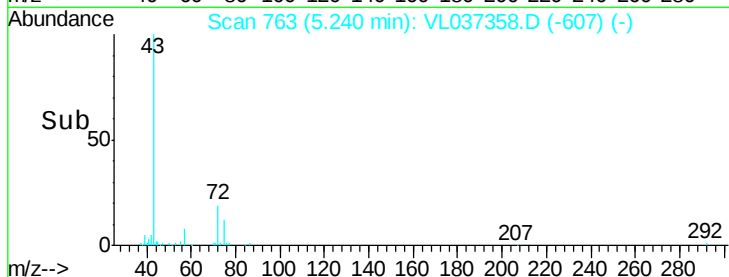
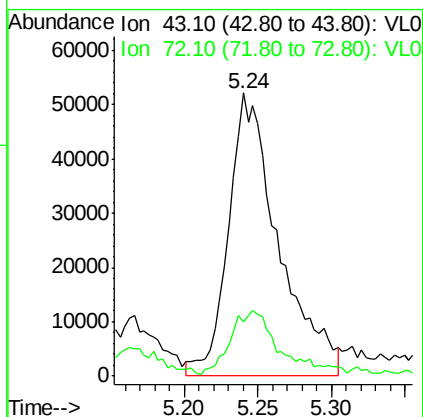
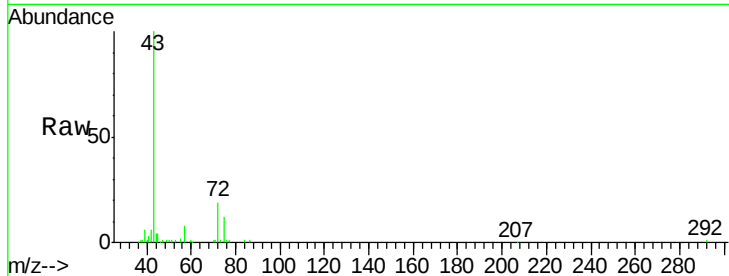
72 0.0 19.8 29.6#

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#35

Carbon Tetrachloride

Concen: 0.062 ppbv m

RT: 7.01 min Scan# 1312

Delta R.T. -0.01 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

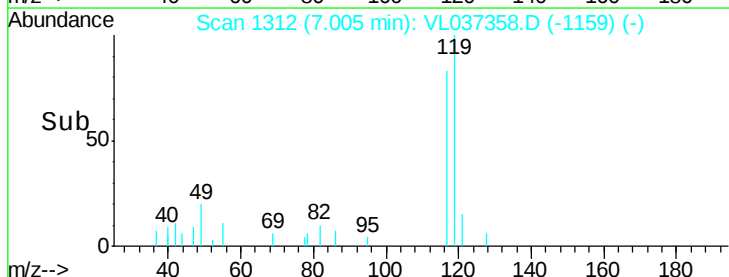
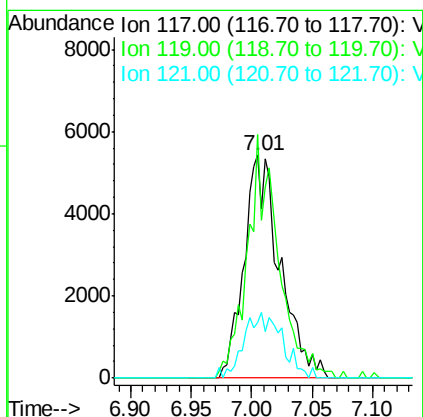
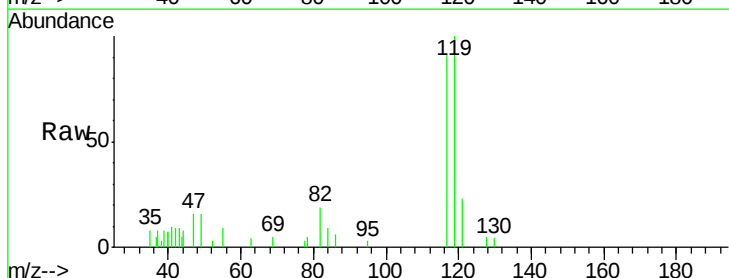
Tgt Ion: 117 Resp: 11091

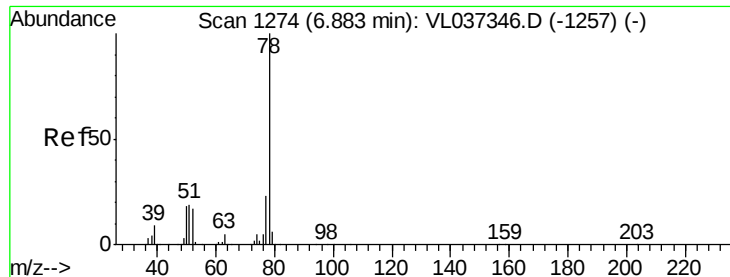
Ion Ratio Lower Upper

117 100

119 109.3 77.8 116.8

121 24.9 24.6 36.8





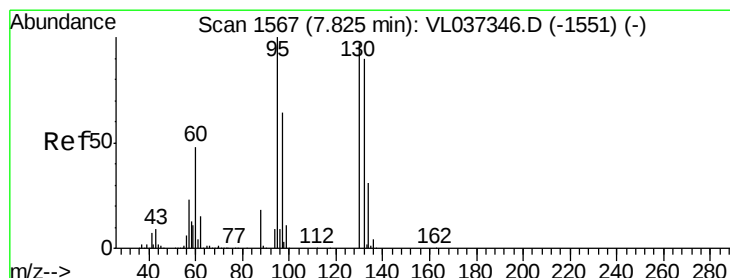
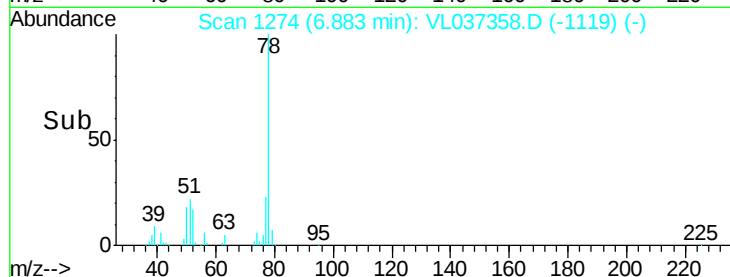
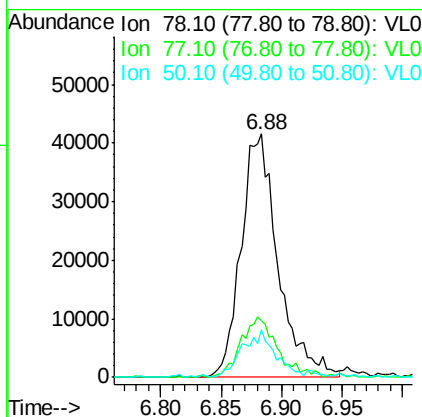
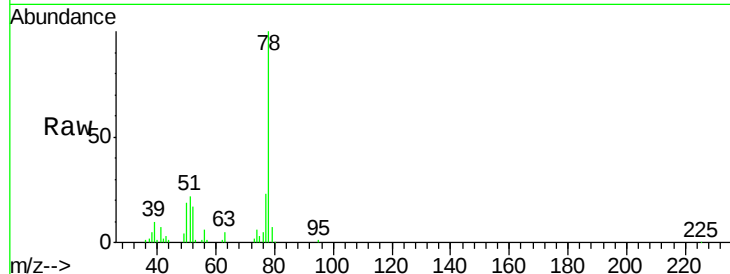
#36
Benzene
Concen: 0.402 ppbv m
RT: 6.88 min Scan# 1274
Delta R.T. -0.00 min
Lab File: VL037358.D
Acq: 7 Aug 2021 00:39

Instrument :
MSVOA_L
ClientSampleId :
SVE-INFLUENT

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.5	18.7	28.1
50	19.5	14.6	22.0

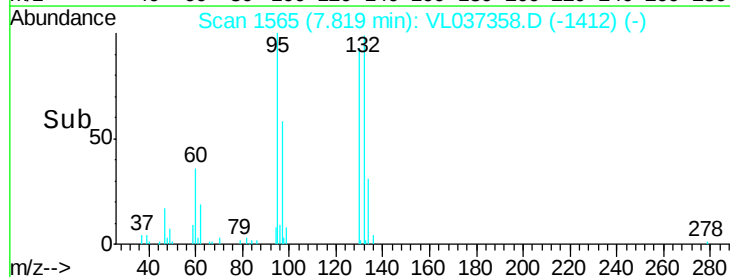
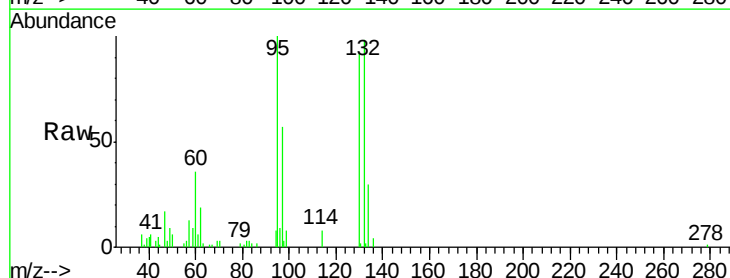
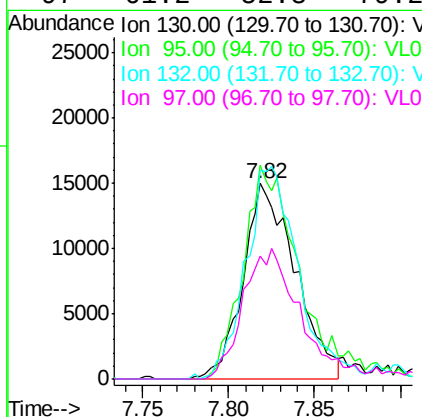
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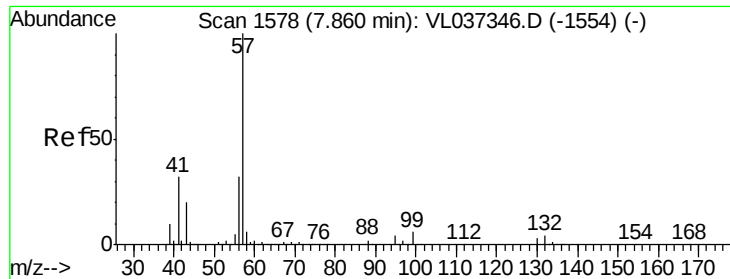
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#38
Trichloroethene
Concen: 0.294 ppbv
RT: 7.82 min Scan# 1565
Delta R.T. -0.01 min
Lab File: VL037358.D
Acq: 7 Aug 2021 00:39

Tgt Ion	Ratio	Lower	Upper
130	100		
95	106.6	82.8	124.2
132	106.2	74.9	112.3
97	61.2	52.8	79.2





#44

2,2,4-Trimethylpentane

Concen: 0.432 ppbv

RT: 7.86 min Scan# 1577

Delta R.T. -0.00 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Instrument :

MSVOA_L

ClientSampleId :

SVE-INFLUENT

Tot Ion: 57 Resp: 158110

Ion Ratio Lower Upper

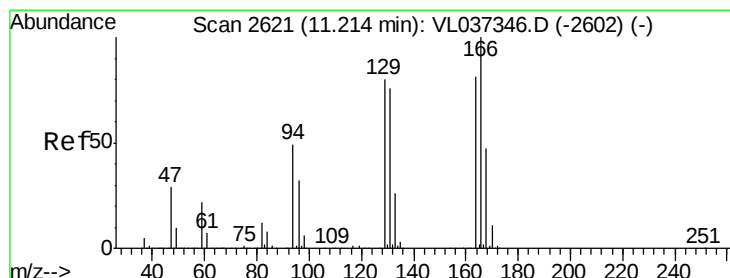
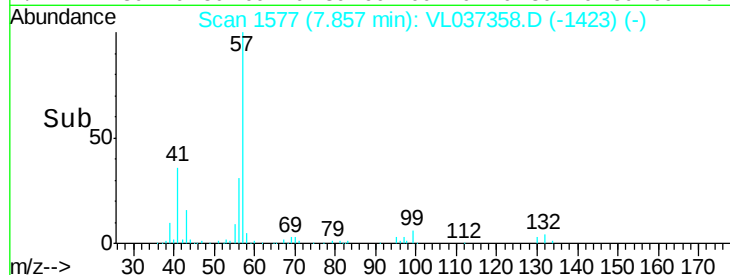
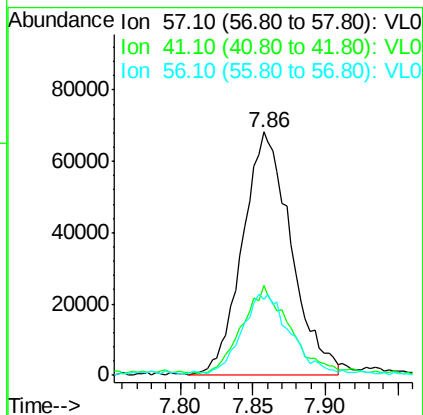
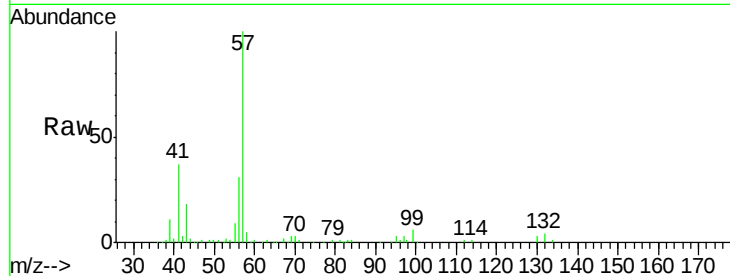
57 100

41 39.5 26.1 39.1#

56 33.9 25.0 37.4

Manual Integrations
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#52

Tetrachloroethene

Concen: 0.397 ppbv m

RT: 11.21 min Scan# 2620

Delta R.T. -0.00 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Tgt Ion:164 Resp: 41447

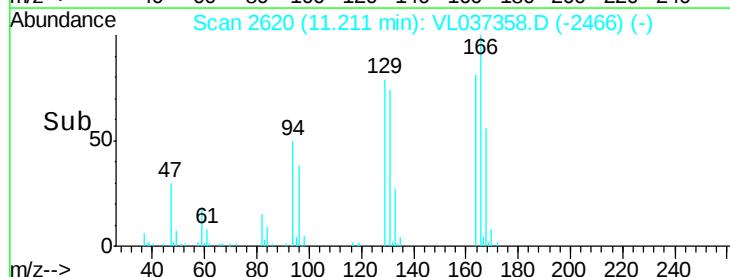
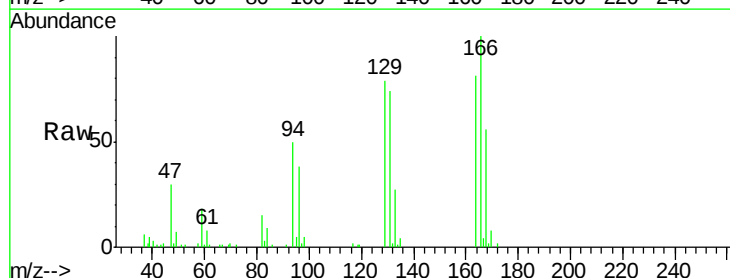
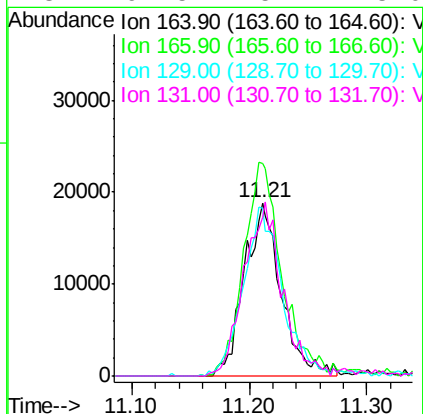
Ion Ratio Lower Upper

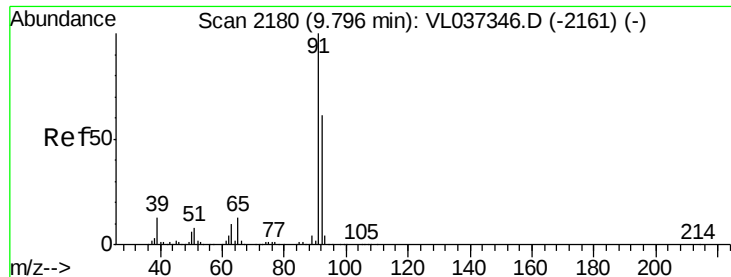
164 100

166 123.3 99.4 149.0

129 97.0 79.2 118.8

131 91.5 75.4 113.0





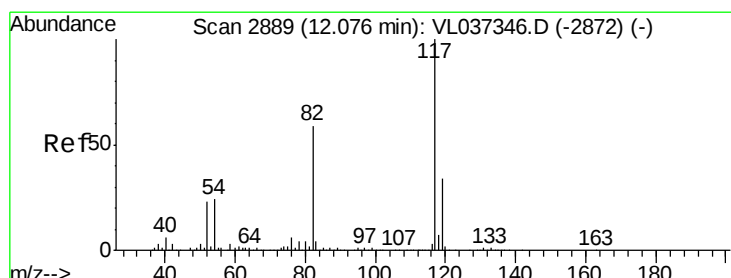
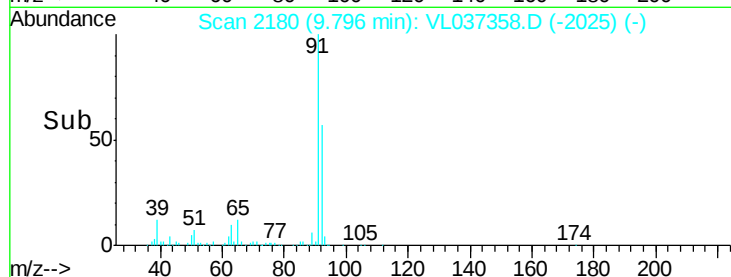
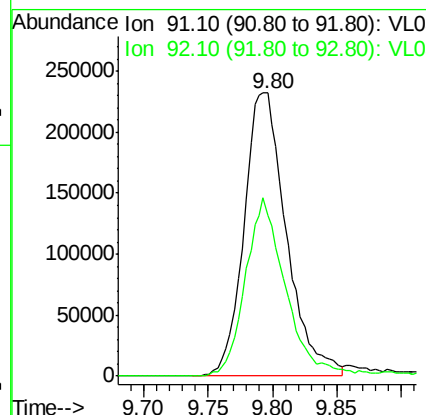
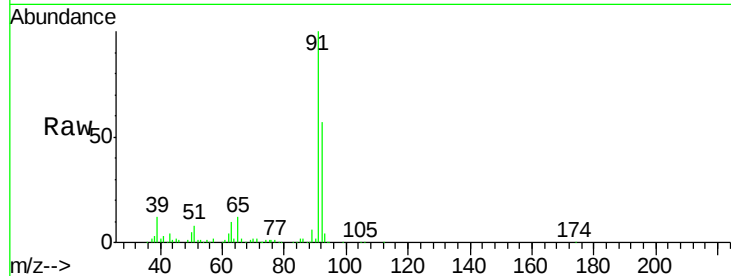
#53
Toluene
Concen: 2.084 ppbv
RT: 9.80 min Scan# 2180
Delta R.T. -0.00 min
Lab File: VL037358.D
Acq: 7 Aug 2021 00:39

Instrument :
MSVOA_L
ClientSampleId :
SVE-INFLUENT

Tot Ion	Ion	Ratio	Resp	Lower	Upper
91	100		531398		
92	61.6	48.2	72.4		

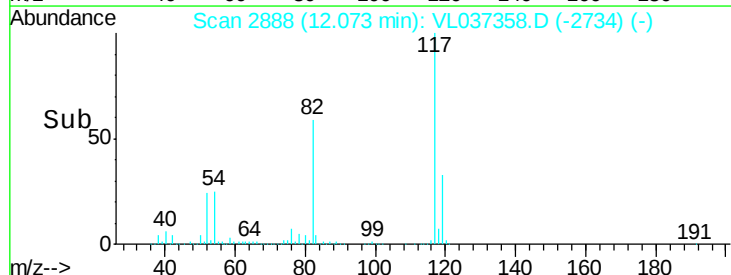
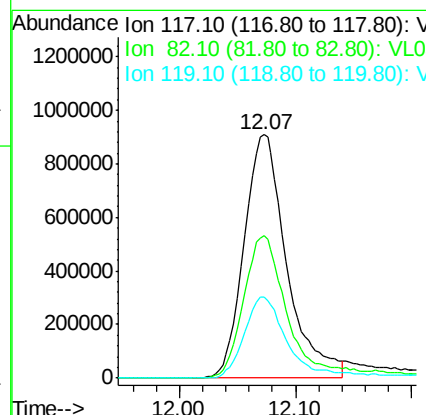
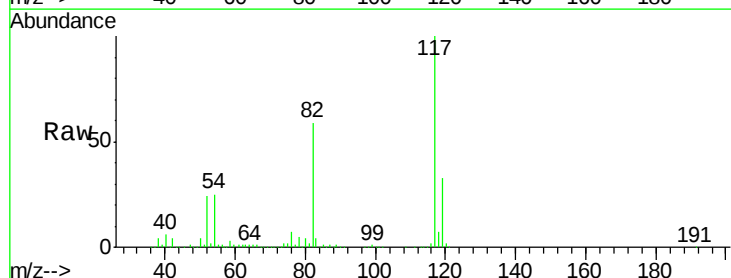
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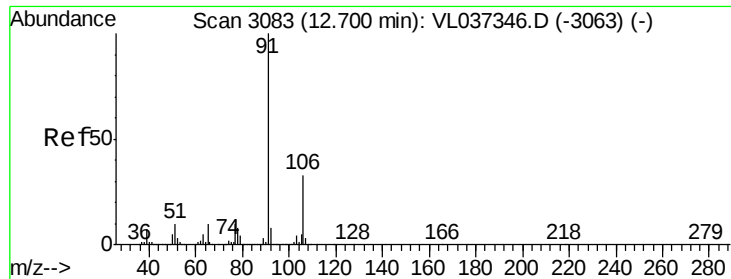
MMDadoda
8/10/2021 6:10:00 PM



#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2888
Delta R.T. -0.00 min
Lab File: VL037358.D
Acq: 7 Aug 2021 00:39

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
117	100		2321181		
82	66.6	46.0	69.0		
119	37.4	24.4	36.6#		





#58

Ethyl Benzene

Concen: 0.148 ppbv m

RT: 12.70 min Scan# 3082

Delta R.T. -0.00 min

Lab File: VL037358.D

Acq: 7 Aug 2021 00:39

Instrument :

MSVOA_L

ClientSampleId :

SVE-INFLUENT

Tot Ion: 91 Resp: 44908

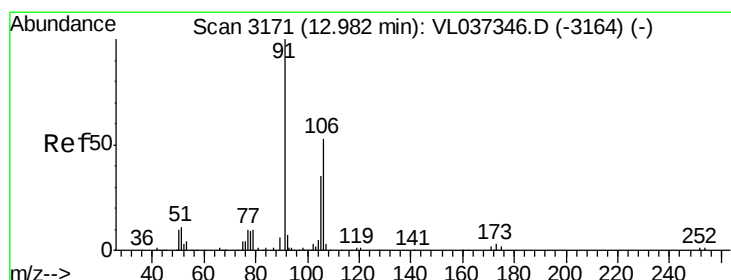
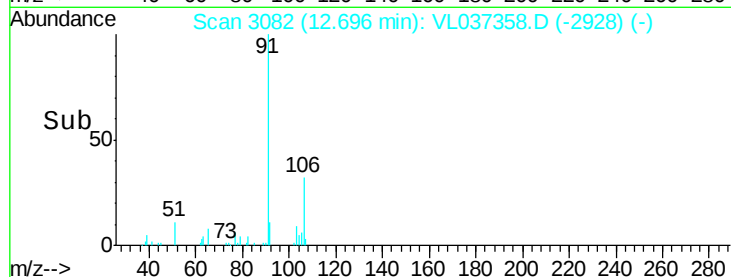
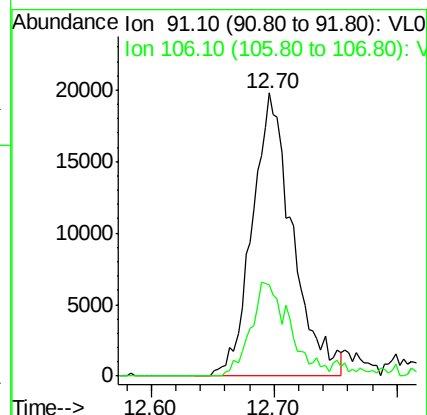
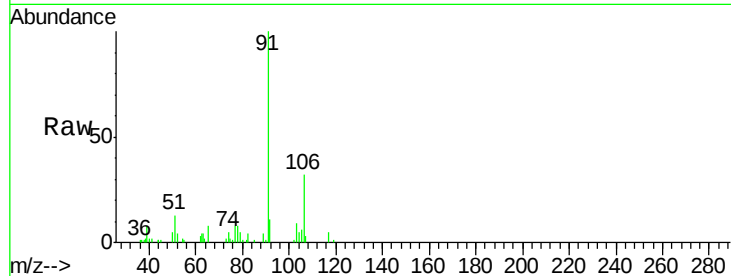
Ion Ratio Lower Upper

91 100

106 32.1 26.2 39.2

Manual Integrations
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#59

m/p-Xylene

Concen: 0.528 ppbv m

RT: 12.96 min Scan# 3163

Delta R.T. -0.03 min

Lab File: VL037358.D

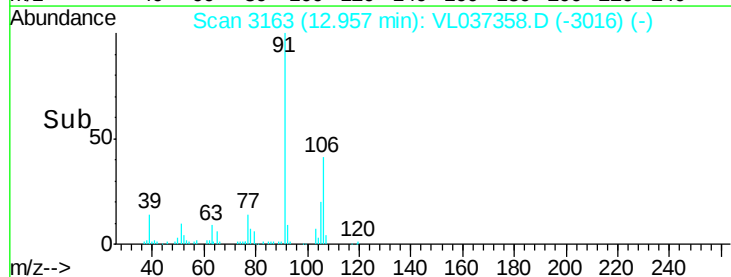
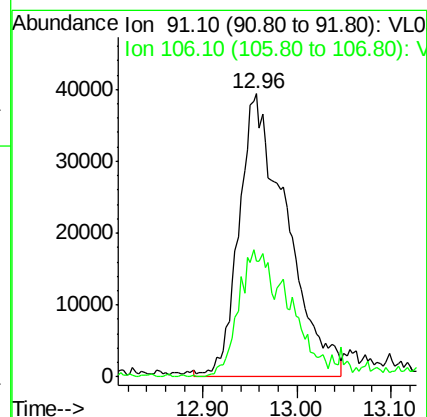
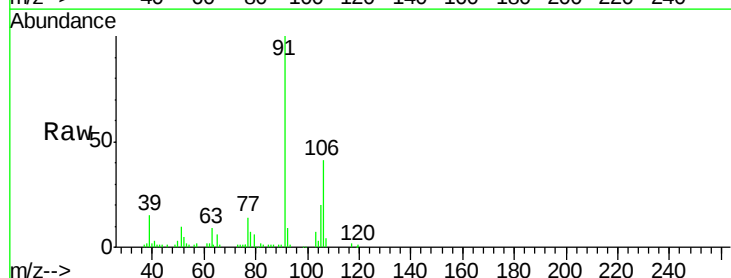
Acq: 7 Aug 2021 00:39

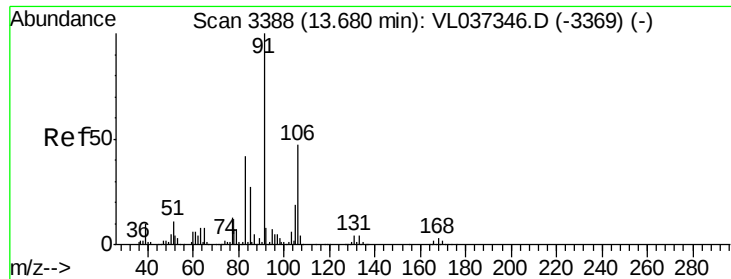
Tgt Ion: 91 Resp: 139299

Ion Ratio Lower Upper

91 100

106 49.3 37.0 55.6





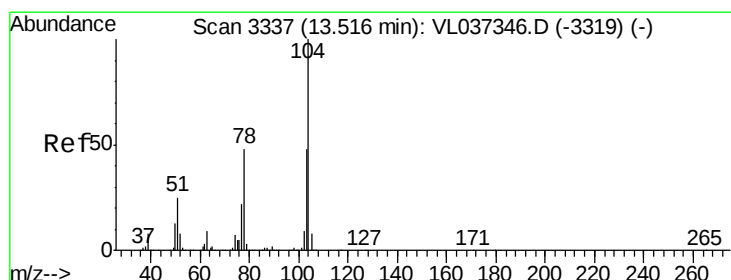
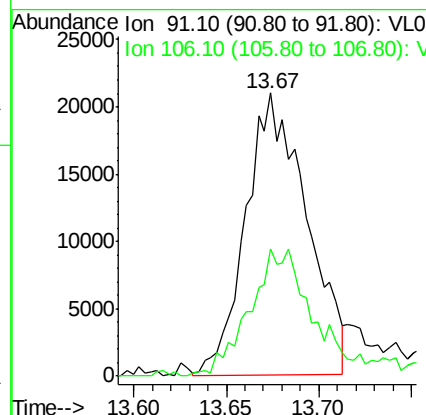
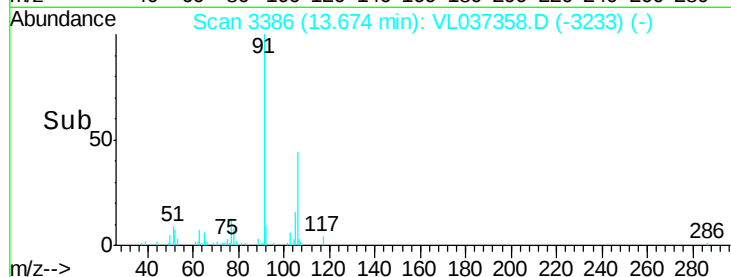
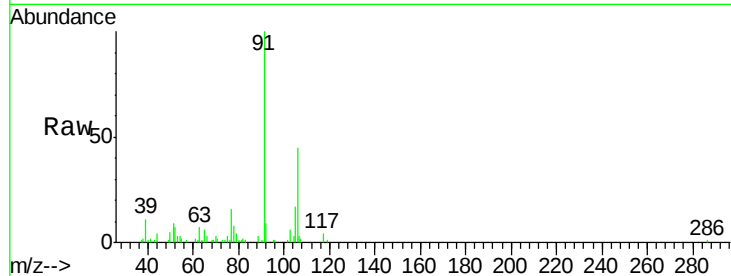
#60
o-Xylene
Concen: 0.196 ppbv
RT: 13.67 min Scan# 3386
Delta R.T. -0.01 min
Lab File: VL037358.D
Acq: 7 Aug 2021 00:39

Instrument :
MSVOA_L
ClientSampleId :
SVE-INFLUENT

Tot Ion: 91 Resp: 47949
Ion Ratio Lower Upper
91 100
106 51.4 23.1 69.3

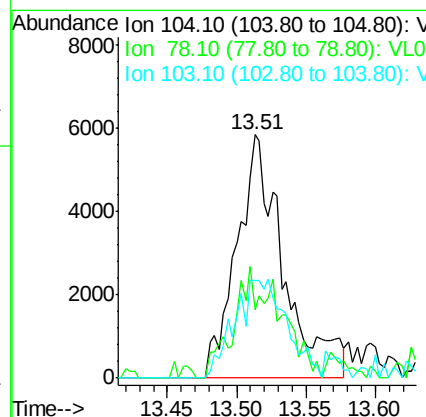
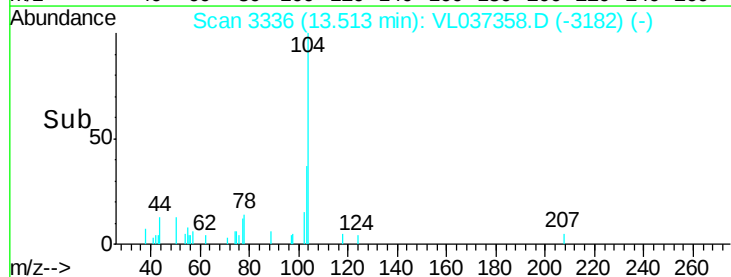
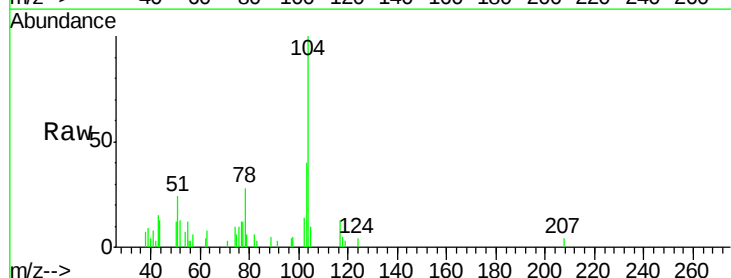
Manual Integrations
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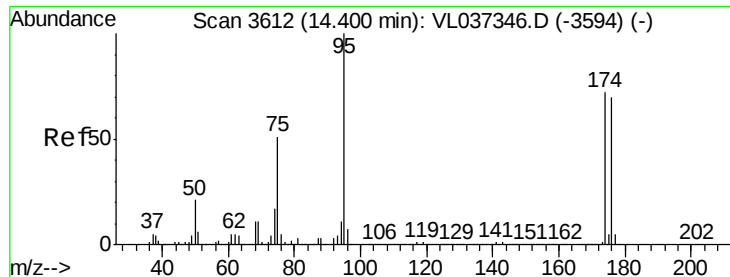
MMDadoda
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#61
Styrene
Concen: 0.109 ppbv m
RT: 13.51 min Scan# 3336
Delta R.T. -0.00 min
Lab File: VL037358.D
Acq: 7 Aug 2021 00:39

Tgt Ion: 104 Resp: 13679
Ion Ratio Lower Upper
104 100
78 47.8 38.2 57.4
103 0.0 38.3 57.5#





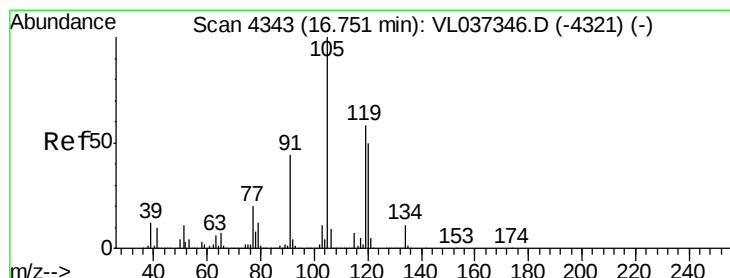
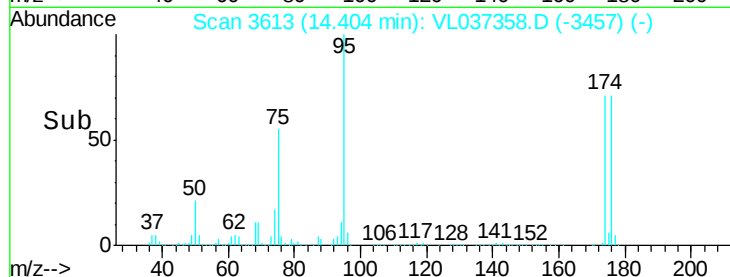
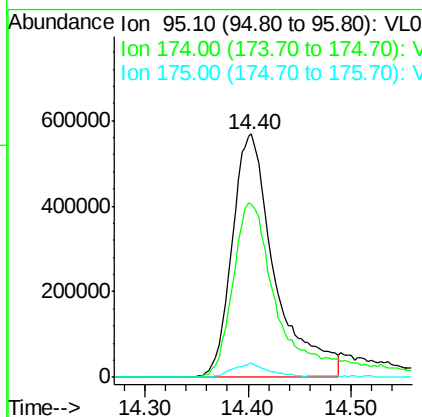
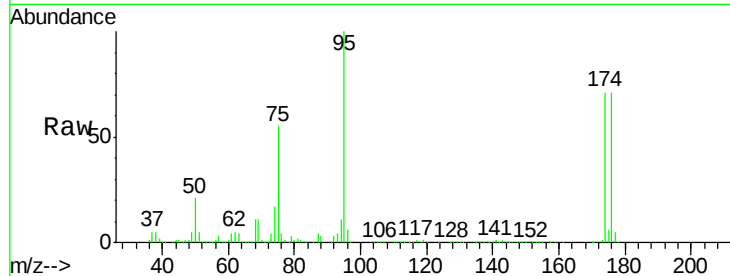
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.034 ppbv
 RT: 14.40 min Scan# 3613
 Delta R.T. 0.00 min
 Lab File: VL037358.D
 Acq: 7 Aug 2021 00:39

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INFLUENT

Tot Ion	Ratio	Lower	Upper
95	100		
174	81.0	60.8	91.2
175	5.0	4.3	6.5

Manual Integrations
 APPROVED

MMDadoda
 8/10/2021 6:10:00 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.179 ppbv m
 RT: 16.75 min Scan# 4343
 Delta R.T. -0.00 min
 Lab File: VL037358.D
 Acq: 7 Aug 2021 00:39

Tgt Ion	Ratio	Lower	Upper
105	100		
120	36.9	39.7	59.5#
91	14.3	35.0	52.6#
77	15.3	16.1	24.1#

