

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL012422\
 Data File : VL038265.D
 Acq On : 24 Jan 2022 18:30
 Operator : SY/AP
 Sample : N1211-01
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-EFFLUENT

Quant Time: Jan 24 22:04:58 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	750555	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1966752	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	1596869	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1220342	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

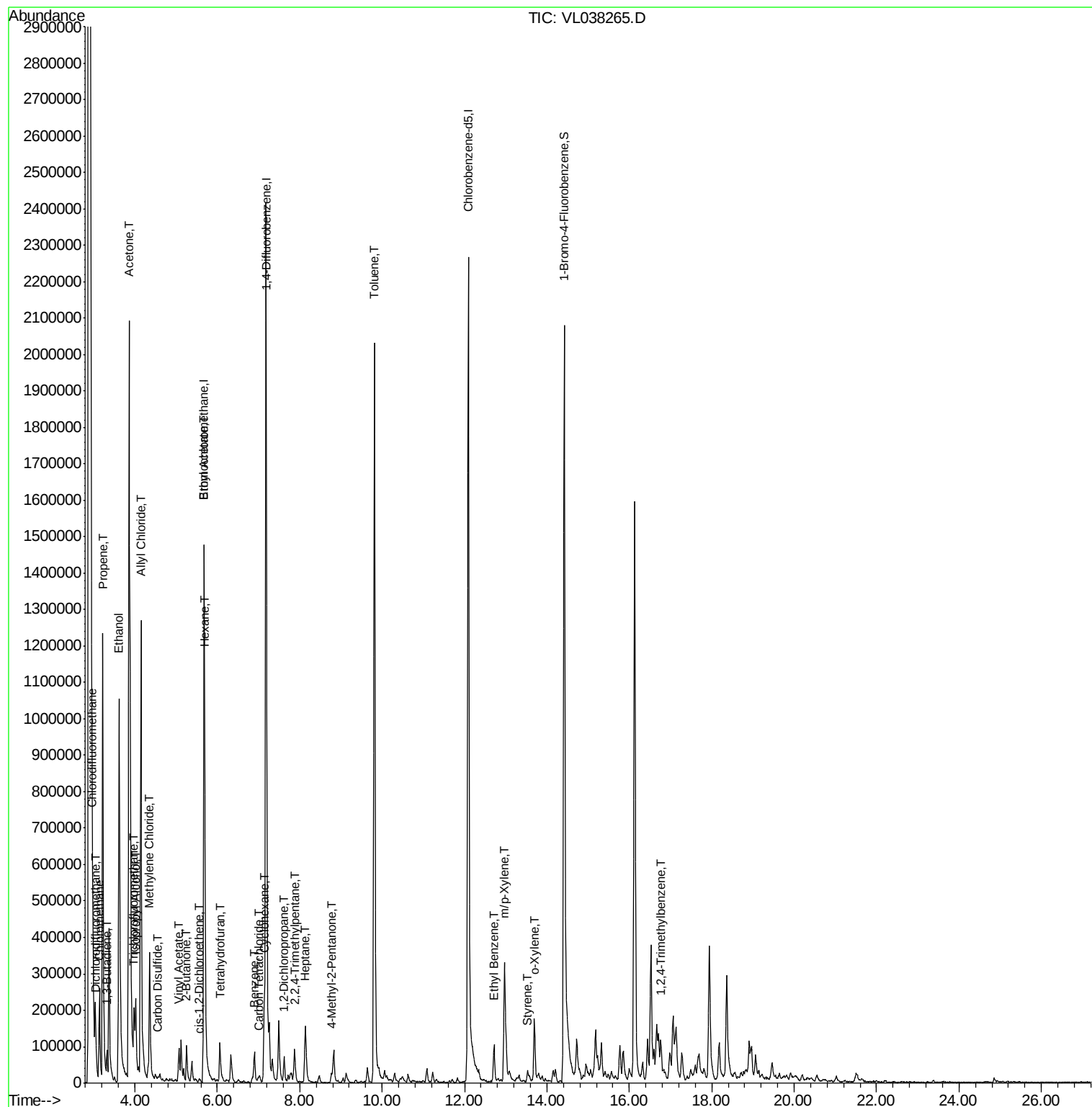
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	36359	0.228	ppbv	99
3) Chlorodifluoromethane	2.98	51	167316	1.120	ppbv #	69
4) Chloromethane	3.15	50	17787	0.346	ppbv	92
9) Propene	3.22	41	444471	9.138	ppbv	98
10) Heptane	8.13	43	51551	0.412	ppbv	92
11) Trichlorofluoromethane	3.96	101	25212	0.203	ppbv	97
13) Ethanol	3.61	45	1426329	273.161	ppbv	100
15) Acetone	3.86	43	2987544	45.154	ppbv	98
16) 1,3-Butadiene	3.32	39	26515	0.558	ppbv #	26
19) Isopropyl Alcohol	4.01	45	33906	0.819	ppbv #	91
20) Methylene Chloride	4.36	84	141112	3.667	ppbv	96
21) Allyl Chloride	4.14	41	442265	7.555	ppbv #	52
23) Vinyl Acetate	5.07	43	27288	0.284	ppbv #	1
25) Ethyl Acetate	5.69	43	219989	1.188	ppbv	98
26) Hexane	5.70	57	101859	1.182	ppbv	95
27) Carbon Disulfide	4.56	76	4465	0.044	ppbv #	1
30) Cyclohexane	7.14	84	71850	0.958	ppbv	93
31) cis-1,2-Dichloroethene	5.55	61	2713	0.036	ppbv #	93
34) 2-Butanone	5.25	43	63565	0.988	ppbv #	47
35) Carbon Tetrachloride	7.02	117	4703	0.034	ppbv	88
36) Benzene	6.90	78	67128	0.386	ppbv	99
39) 1,2-Dichloropropane	7.62	63	13103	0.186	ppbv	88
41) Tetrahydrofuran	6.06	42	68975	1.595	ppbv	99
44) 2,2,4-Trimethylpentane	7.87	57	67550	0.220	ppbv #	70
50) 4-Methyl-2-Pentanone	8.76	43	4556	0.040	ppbv #	1
53) Toluene	9.81	91	1733011	9.000	ppbv	97
58) Ethyl Benzene	12.72	91	48768	0.208	ppbv	99
59) m/p-Xylene	12.97	91	340499	1.701	ppbv	94
60) o-Xylene	13.69	91	141131	0.758	ppbv	99
61) Styrene	13.53	104	8851	0.102	ppbv #	26
74) 1,2,4-Trimethylbenzene	16.77	105	65198	0.353	ppbv #	73

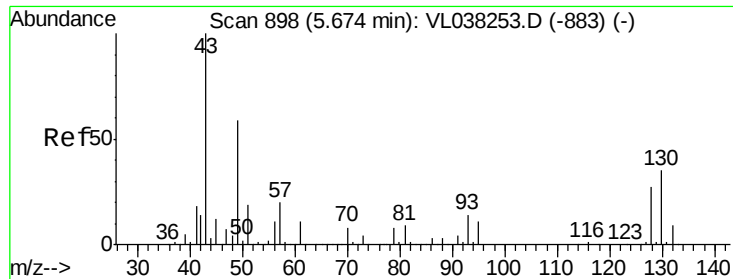
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument: MSVOA_1

Delta R.T. 0.00

Lab File: ClientSampleId: SVE-EFFLUENT

Acq: 24 Jan 2022 18:30

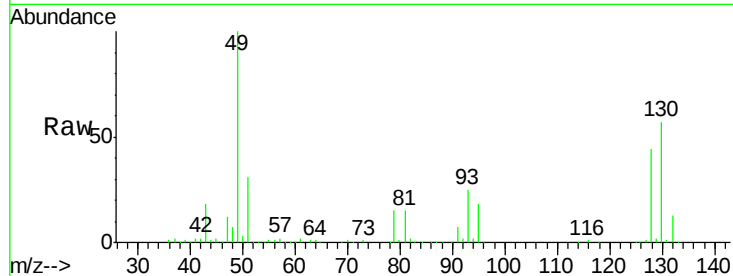
Tgt Ion: 49 Resp: 750555

Ion Ratio Lower Upper

49 100

128 46.6 24.5 73.5

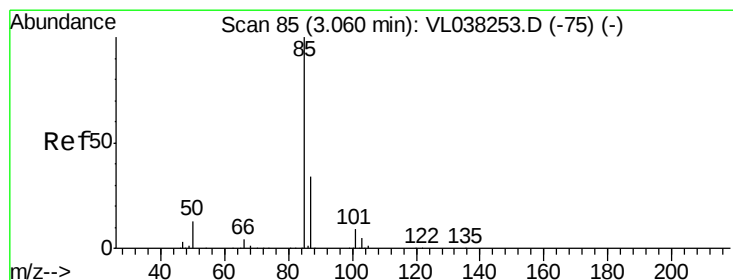
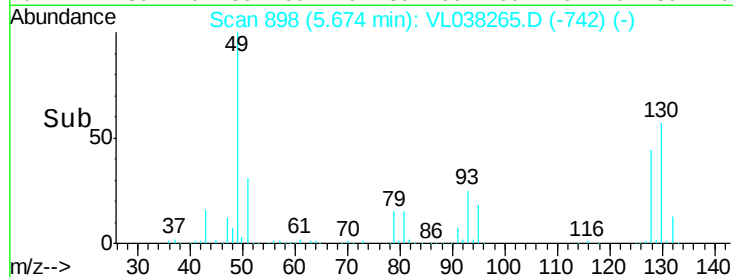
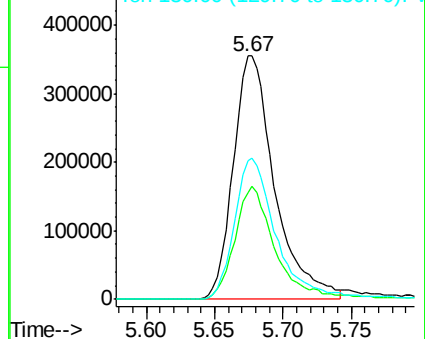
130 59.7 30.1 90.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0



#2

Dichlorodifluoromethane

Concen: 0.228 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.00 min

Lab File: VL038265.D

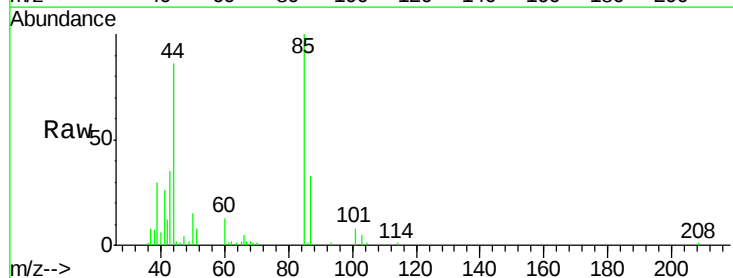
Acq: 24 Jan 2022 18:30

Tgt Ion: 85 Resp: 36359

Ion Ratio Lower Upper

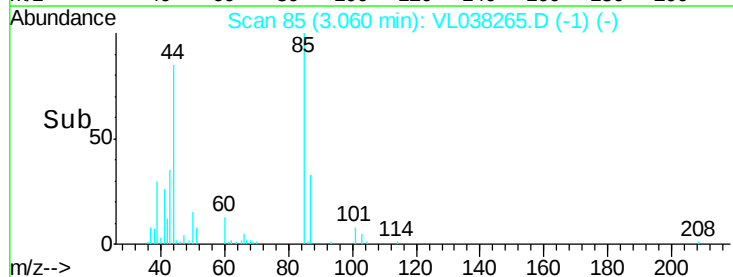
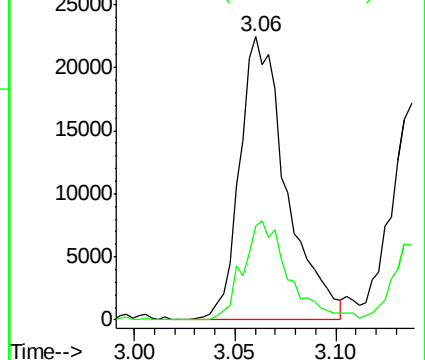
85 100

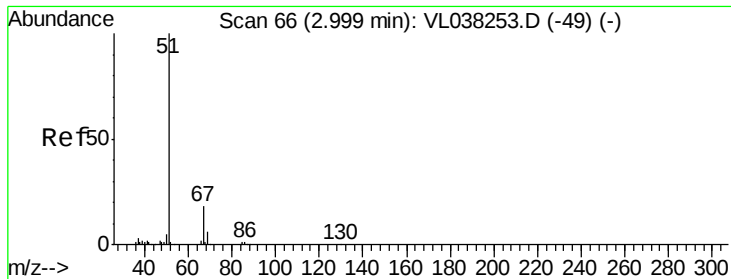
87 33.2 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 1.120 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SVE-EFFLUENT

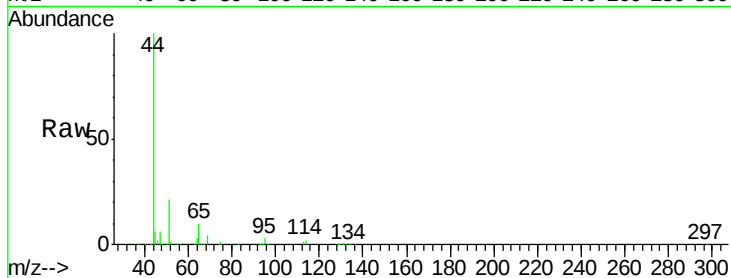
Acq: 24 Jan 2022 18:30

Tgt Ion: 51 Resp: 167316

Ion Ratio Lower Upper

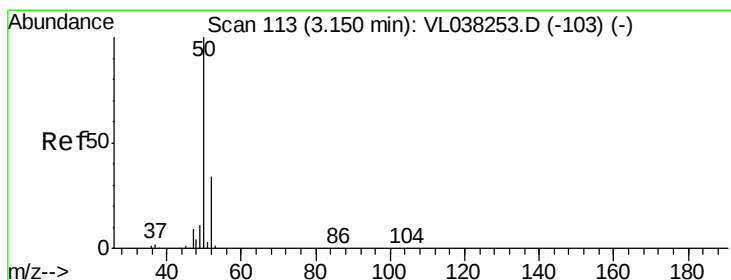
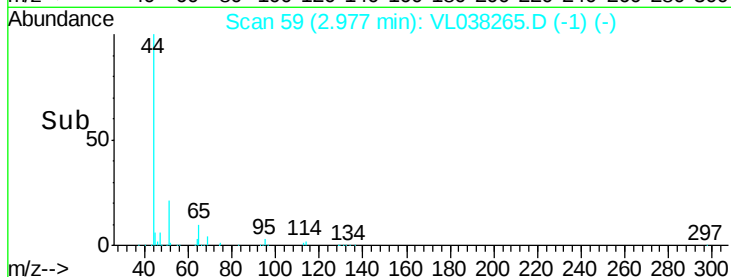
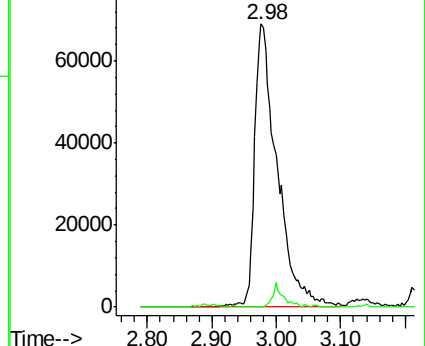
51 100

67 4.3 14.4 21.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.346 ppbv

RT: 3.15 min Scan# 114

Delta R.T. 0.00 min

Lab File: VL038265.D

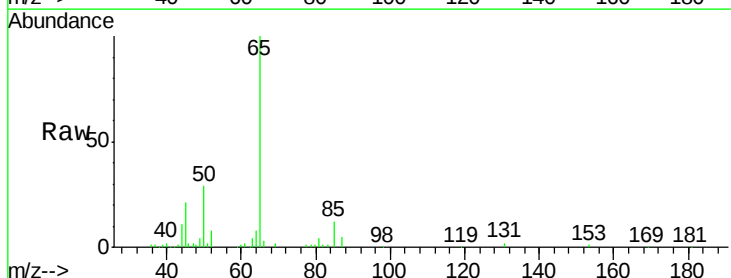
Acq: 24 Jan 2022 18:30

Tgt Ion: 50 Resp: 17787

Ion Ratio Lower Upper

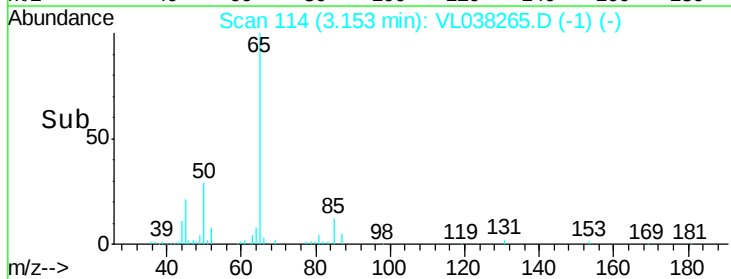
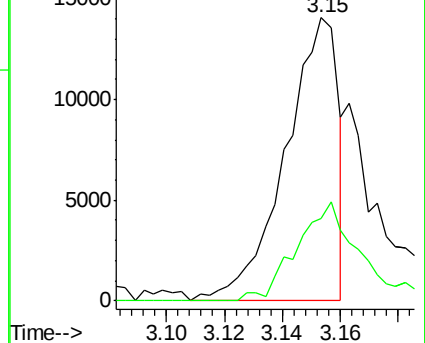
50 100

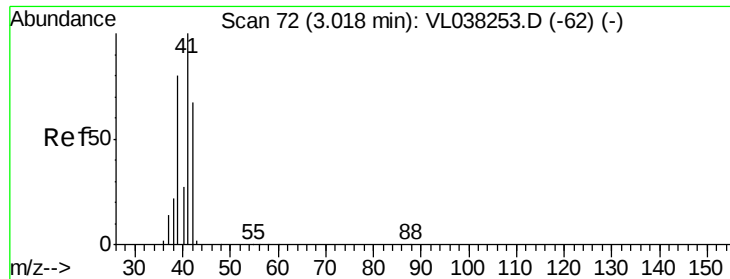
52 29.2 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 9.138 ppbv

RT: 3.22 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

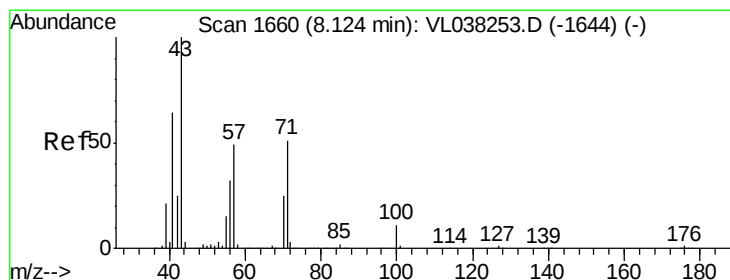
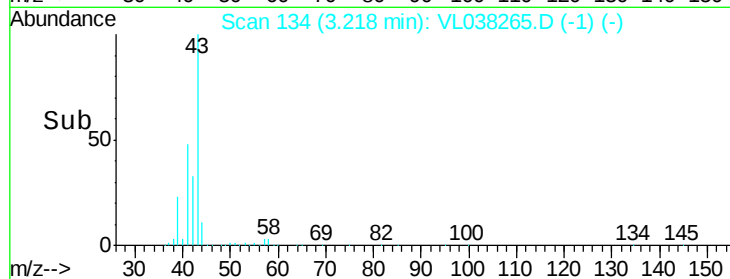
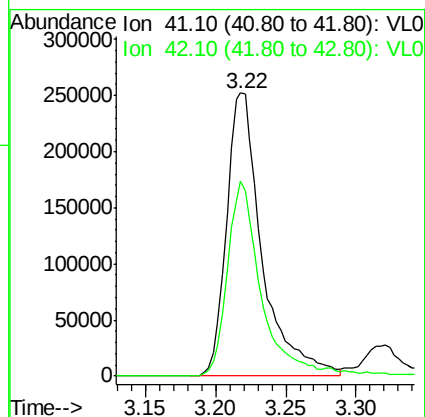
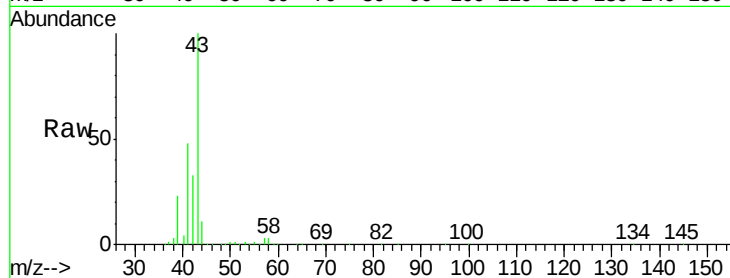
Acq: 24 Jan 2022 18:30 SVE-EFFLUENT

Tgt Ion: 41 Resp: 444471

Ion Ratio Lower Upper

41 100

42 66.8 54.9 82.3



#10

Heptane

Concen: 0.412 ppbv

RT: 8.13 min Scan# 1661

Delta R.T. 0.00 min

Lab File: VL038265.D

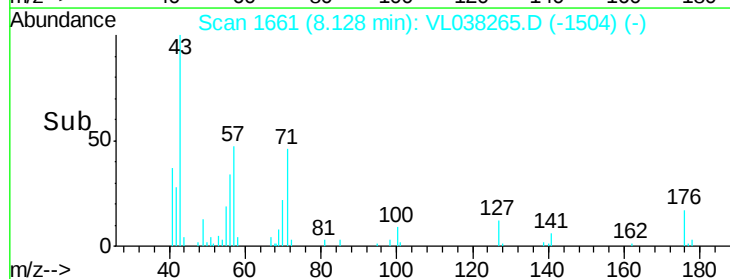
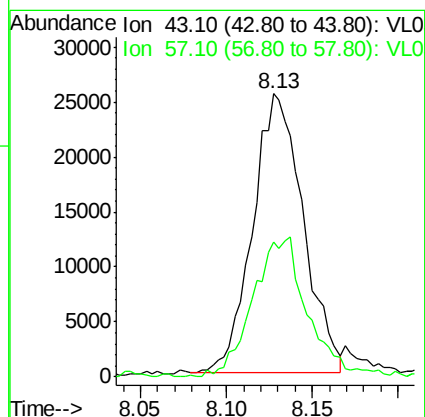
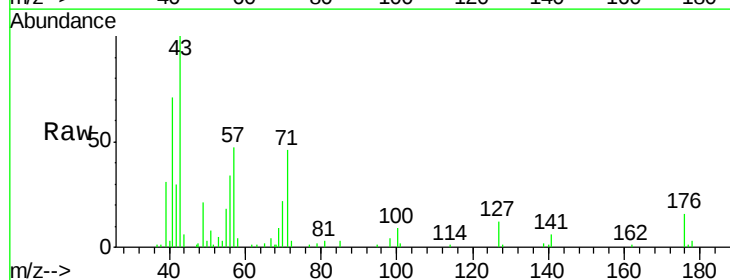
Acq: 24 Jan 2022 18:30

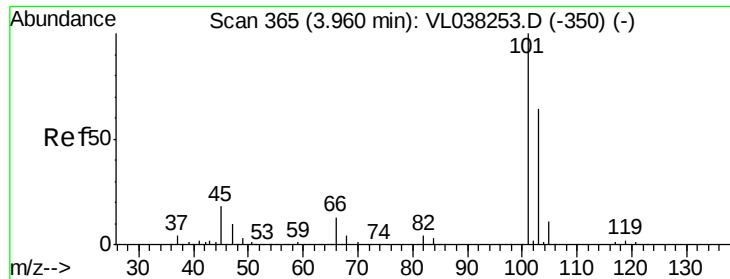
Tgt Ion: 43 Resp: 51551

Ion Ratio Lower Upper

43 100

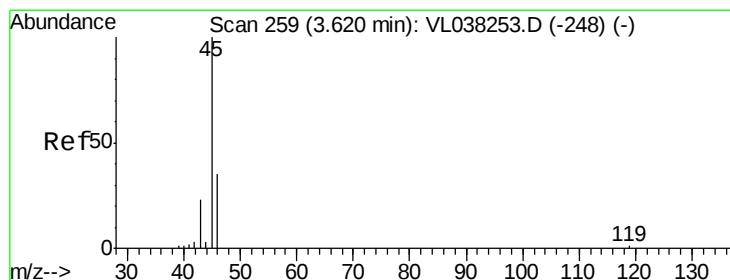
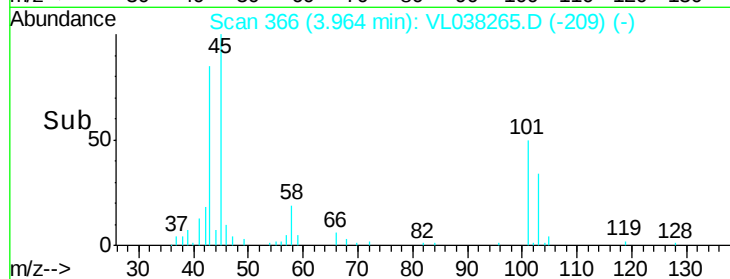
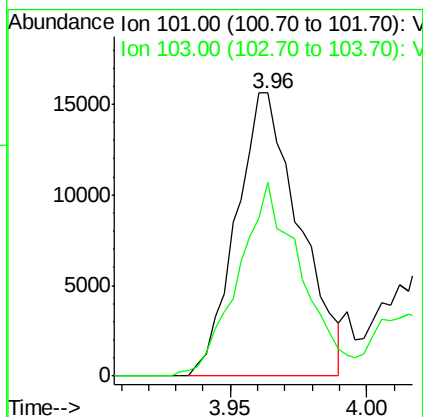
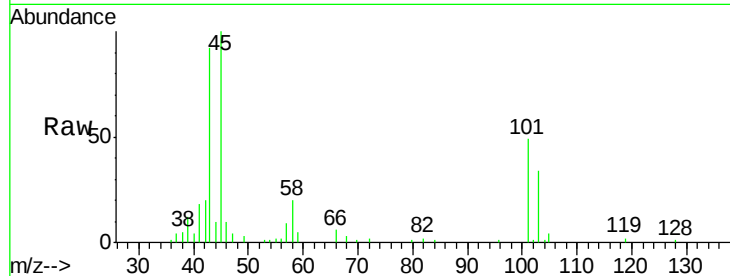
57 55.0 39.5 59.3





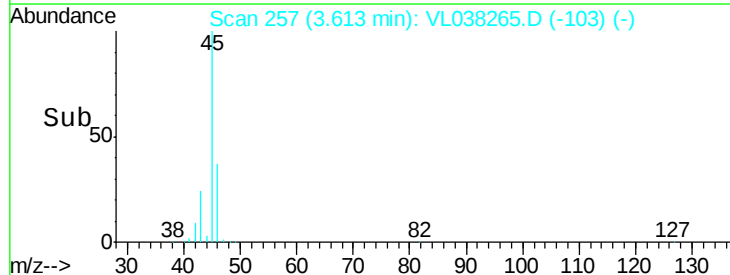
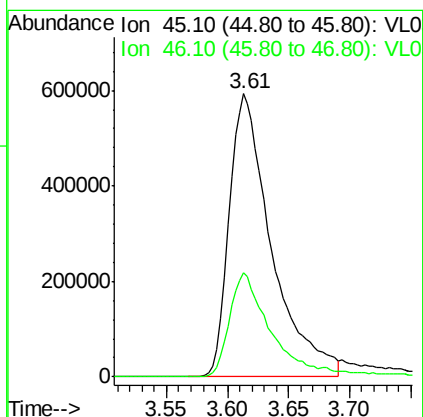
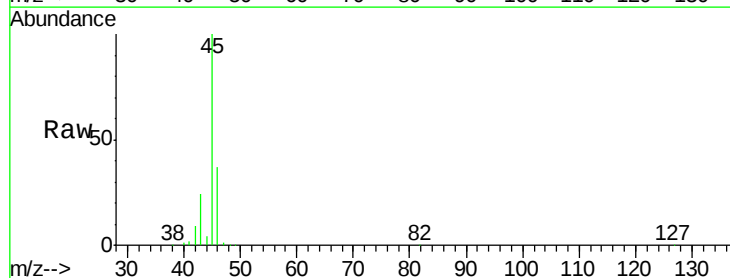
#11
 Trichlorofluoromethane
 Concen: 0.203 ppbv
 RT: 3.96
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jan 2022 18:30

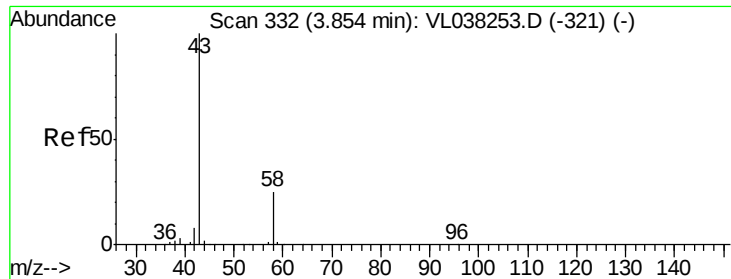
Tgt Ion: 101 Resp: 25212
 Ion Ratio Lower Upper
 101 100
 103 66.3 51.2 76.8



#13
 Ethanol
 Concen: 273.161 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T. -0.01 min
 Lab File: VL038265.D
 Acq: 24 Jan 2022 18:30

Tgt Ion: 45 Resp: 1426329
 Ion Ratio Lower Upper
 45 100
 46 38.8 15.4 61.6





#15

Acetone

Concen: 45.154 ppbv

RT: 3.86 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

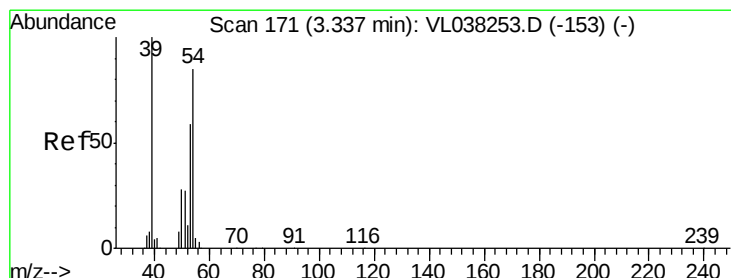
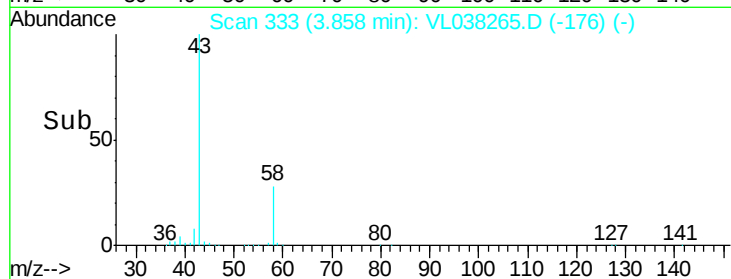
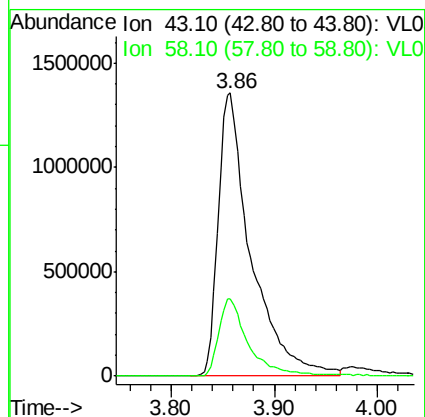
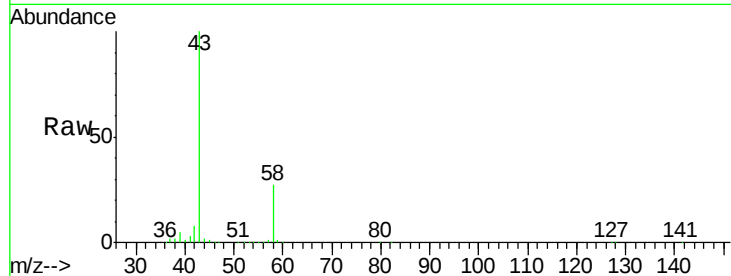
Acq: 24 Jan 2022 18:30 SVE-EFFLUENT

Tgt Ion: 43 Resp: 2987544

Ion Ratio Lower Upper

43 100

58 25.7 21.5 32.3



#16

1,3-Butadiene

Concen: 0.558 ppbv

RT: 3.32 min Scan# 166

Delta R.T. -0.02 min

Lab File: VL038265.D

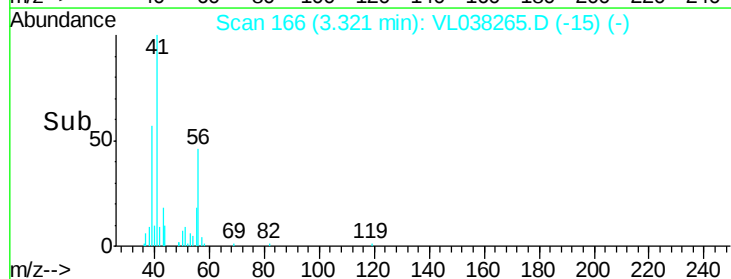
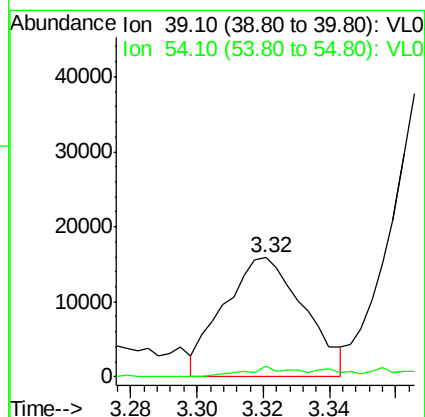
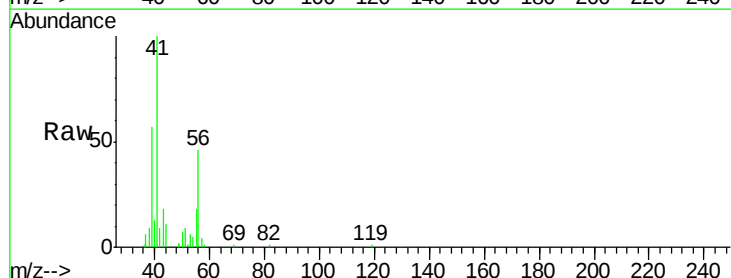
Acq: 24 Jan 2022 18:30

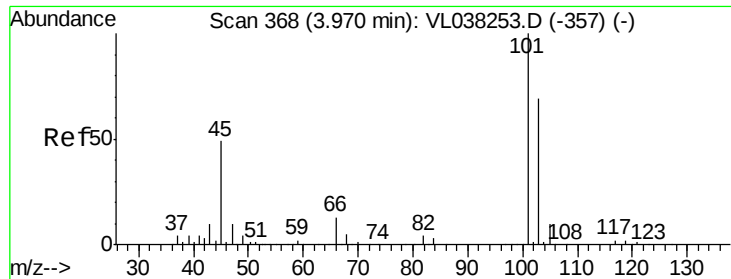
Tgt Ion: 39 Resp: 26515

Ion Ratio Lower Upper

39 100

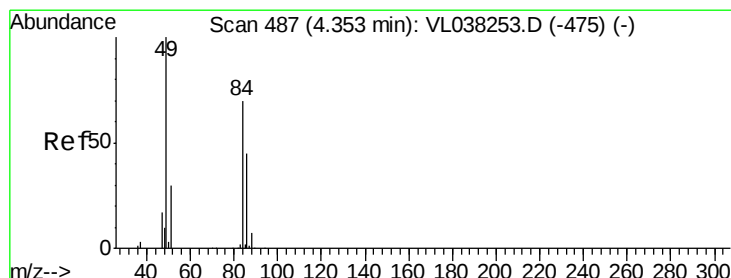
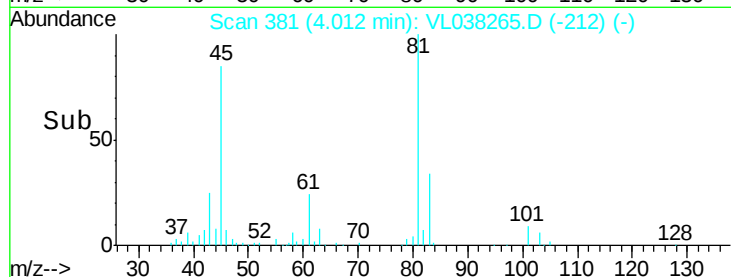
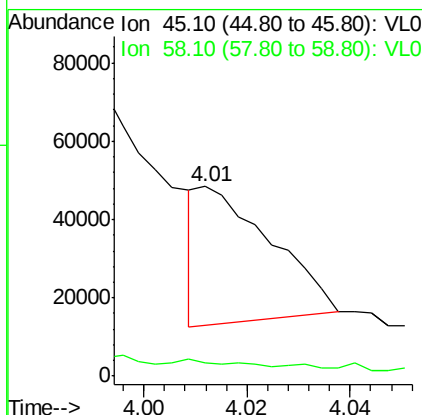
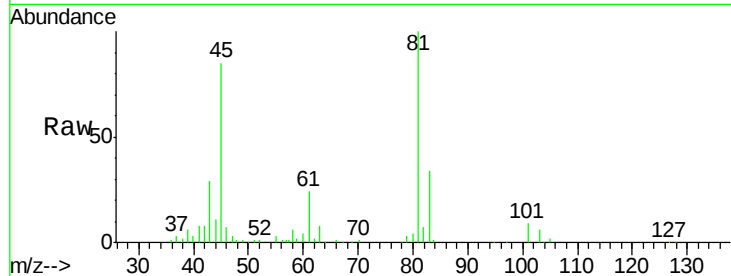
54 13.8 62.6 94.0#





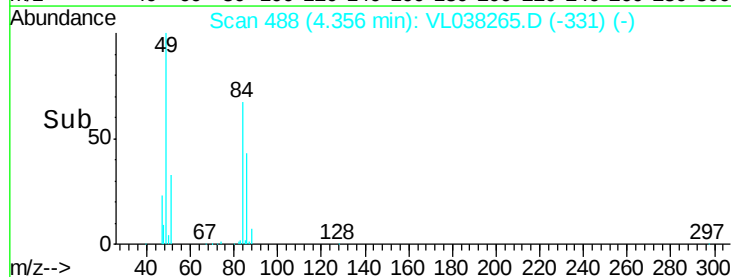
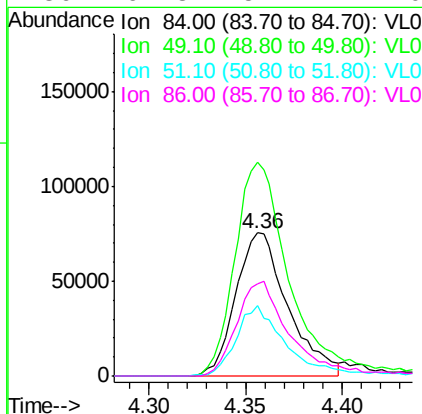
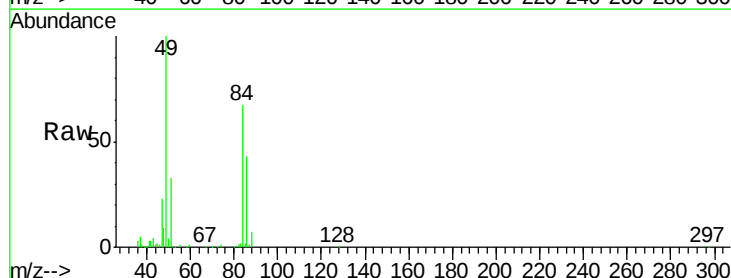
#19
Isopropyl Alcohol
Concen: 0.819 ppbv
RT: 4.01
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jan 2022 18:30

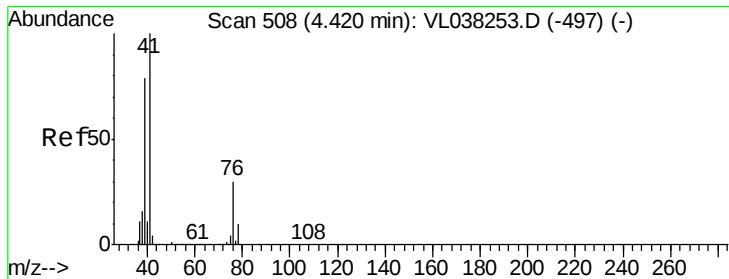
Tgt Ion: 45 Resp: 33906
Ion Ratio Lower Upper
45 100
58 0.0 2.3 3.5#



#20
Methylene Chloride
Concen: 3.667 ppbv
RT: 4.36 min Scan# 488
Delta R.T. 0.00 min
Lab File: VL038265.D
Acq: 24 Jan 2022 18:30

Tgt Ion: 84 Resp: 141112
Ion Ratio Lower Upper
84 100
49 148.9 115.0 172.6
51 49.0 35.0 52.6
86 64.8 51.4 77.0





#21

Allyl Chloride

Concen: 7.555 ppbv

RT: 4.14 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 24 Jan 2022 18:30 SVE-EFFLUENT

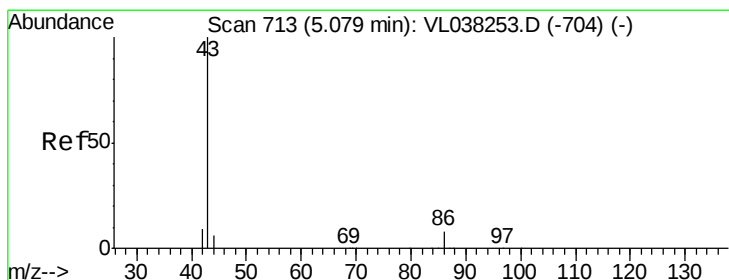
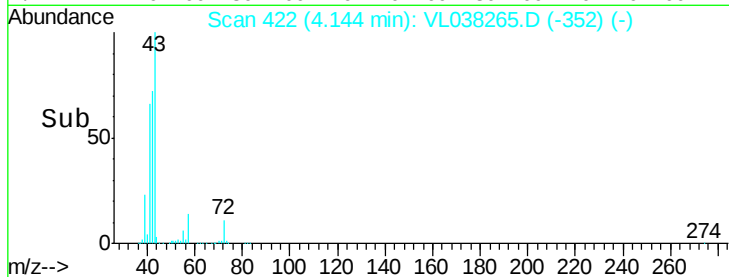
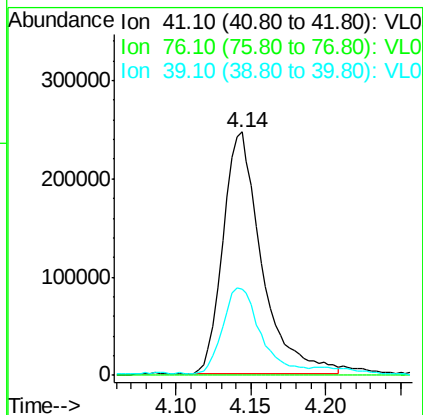
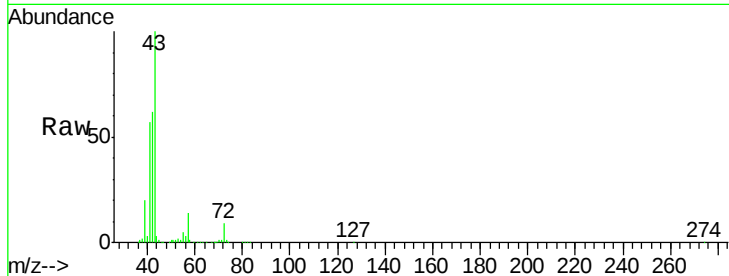
Tgt Ion: 41 Resp: 442265

Ion Ratio Lower Upper

41 100

76 0.0 25.0 37.6#

39 40.2 63.0 94.6#



#23

Vinyl Acetate

Concen: 0.284 ppbv

RT: 5.07 min Scan# 709

Delta R.T. -0.01 min

Lab File: VL038265.D

Acq: 24 Jan 2022 18:30

Tgt Ion: 43 Resp: 27288

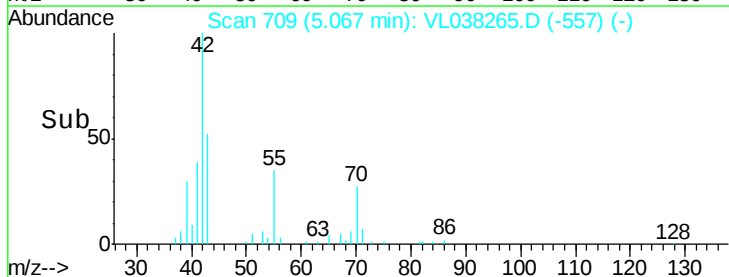
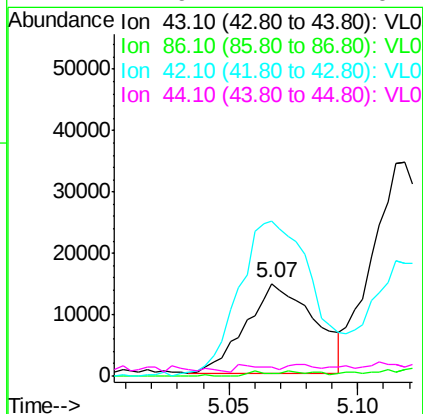
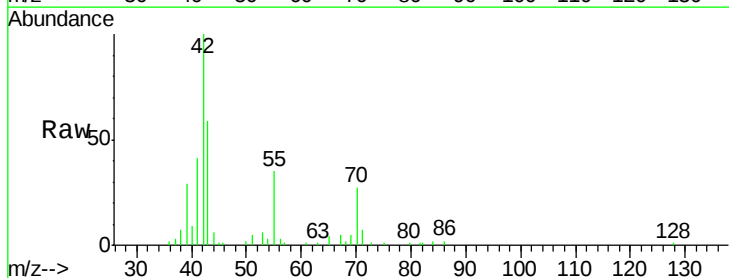
Ion Ratio Lower Upper

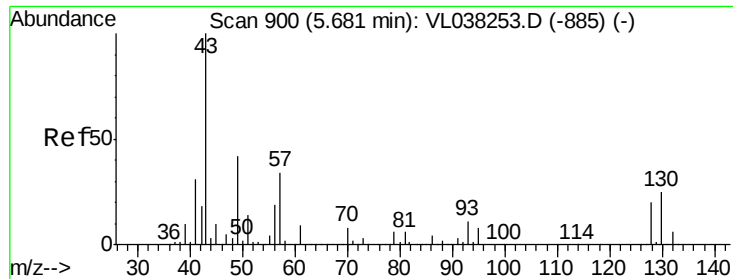
43 100

86 3.4 5.7 8.5#

42 168.1 7.7 11.5#

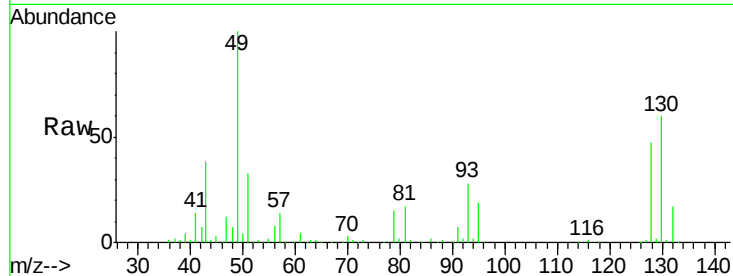
44 1.9 4.2 6.4#





#25
Ethyl Acetate
Concen: 1.188 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SVE-EFFLUENT
Acq: 24 Jan 2022 18:30

Tgt Ion:	43	Resp:	219989
Ion	Ratio	Lower	Upper
43	100		
45	11.0	7.9	11.9
61	9.4	7.8	11.8
70	6.9	5.4	8.0



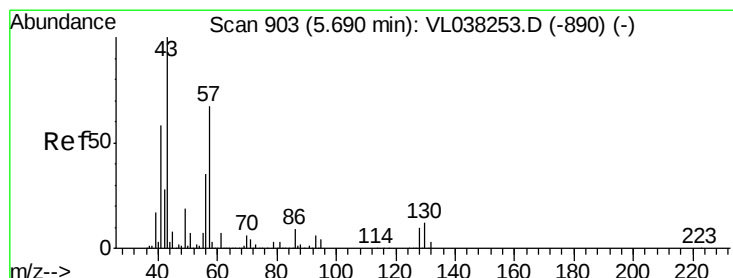
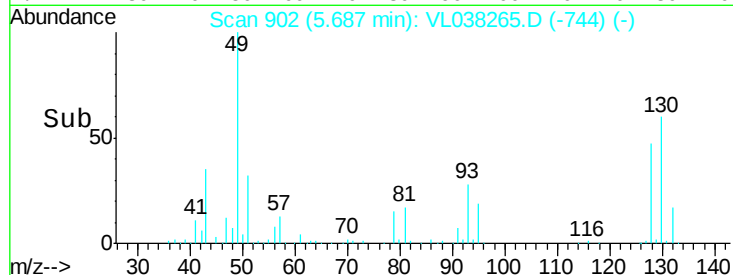
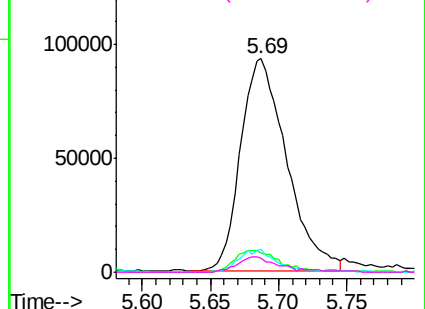
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

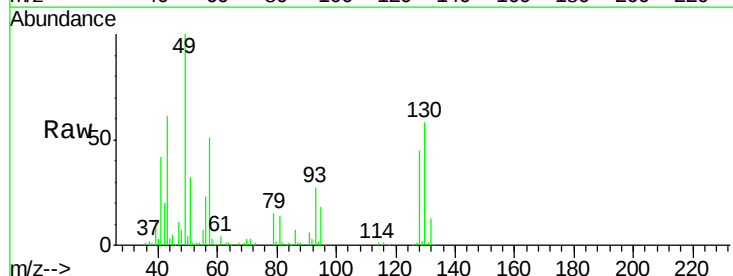
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 1.182 ppbv
RT: 5.70 min Scan# 906
Delta R.T. 0.01 min
Lab File: VL038265.D
Acq: 24 Jan 2022 18:30

Tgt Ion:	57	Resp:	101859
Ion	Ratio	Lower	Upper
57	100		
41	97.3	72.8	109.2
43	229.6	177.0	265.6
56	55.7	43.3	64.9



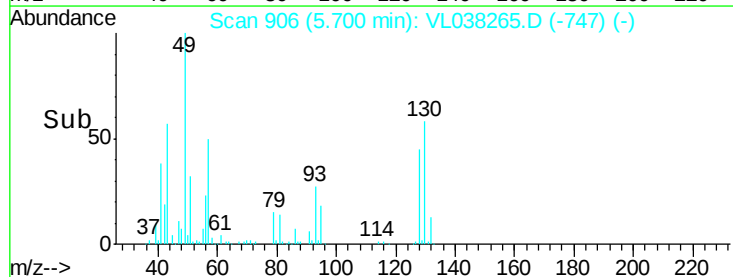
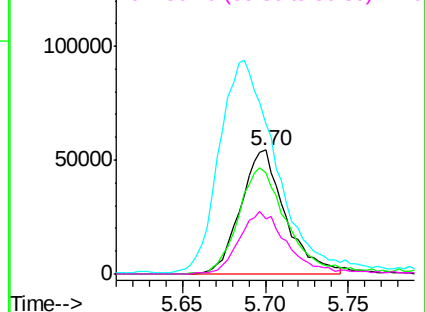
Abundance

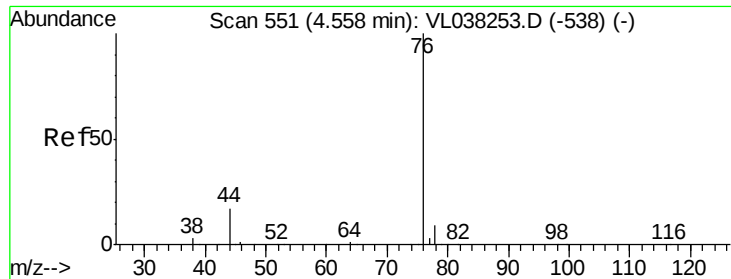
Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

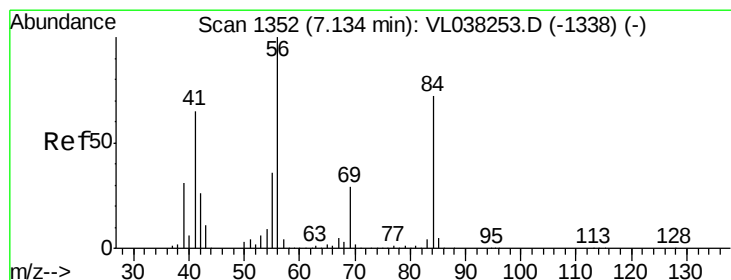
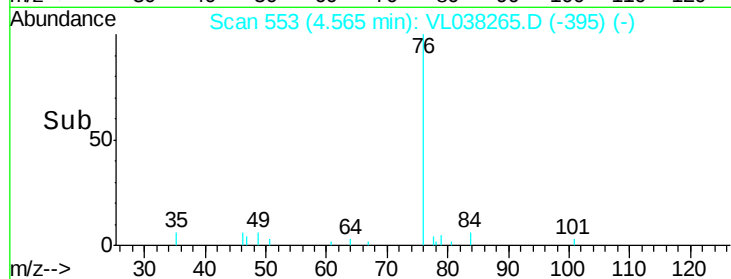
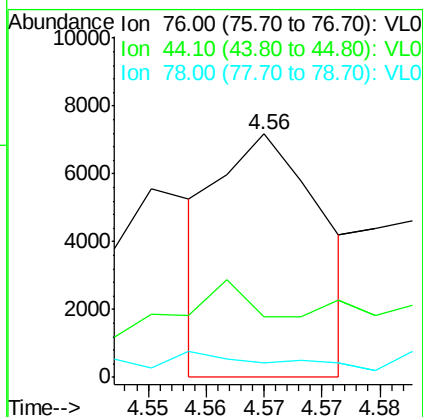
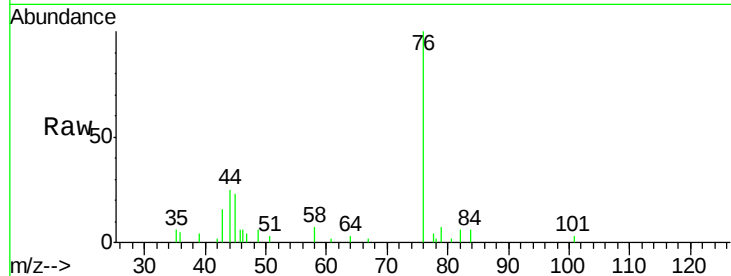
Ion 56.10 (55.80 to 56.80): VL0





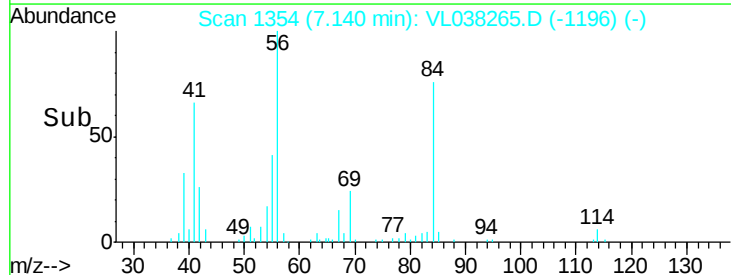
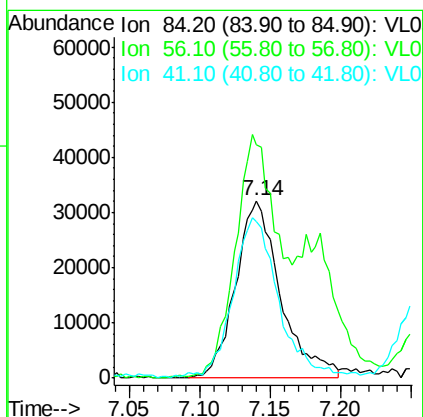
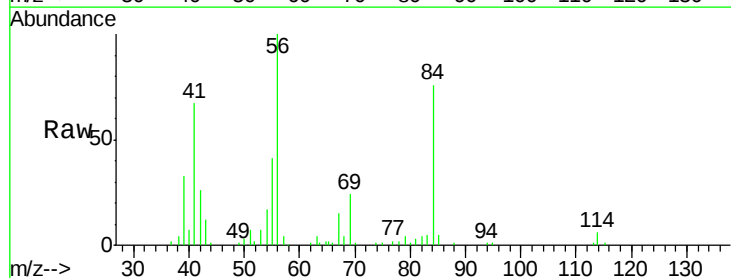
#27
Carbon Disulfide
Concen: 0.044 ppbv
RT: 4.56
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jan 2022 18:30 SVE-EFFLUENT

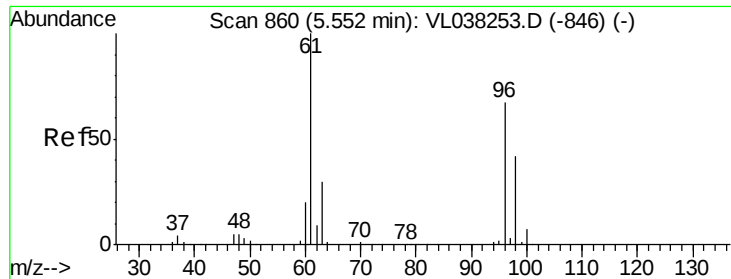
Tgt Ion: 76 Resp: 4465
Ion Ratio Lower Upper
76 100
44 109.2 14.8 22.2#
78 27.1 7.9 11.9#



#30
Cyclohexane
Concen: 0.958 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. 0.01 min
Lab File: VL038265.D
Acq: 24 Jan 2022 18:30

Tgt Ion: 84 Resp: 71850
Ion Ratio Lower Upper
84 100
56 130.6 112.7 169.1
41 92.6 71.1 106.7





#31

cis-1,2-Dichloroethene

Concen: 0.036 ppbv

RT: 5.55 Instrument: MSVOA_1

Delta R.T. 0.00

Lab File: ClientSampleId: SVE-EFFLUENT

Acq: 24 Jan 2022 18:30

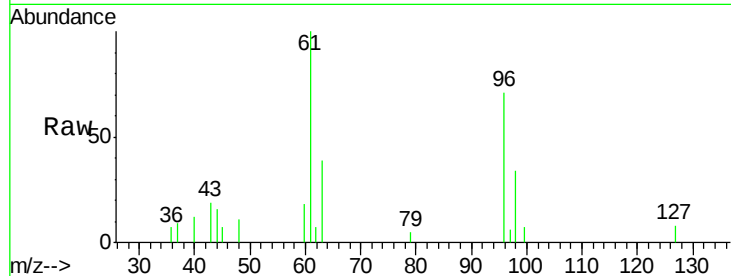
Tgt Ion: 61 Resp: 2713

Ion Ratio Lower Upper

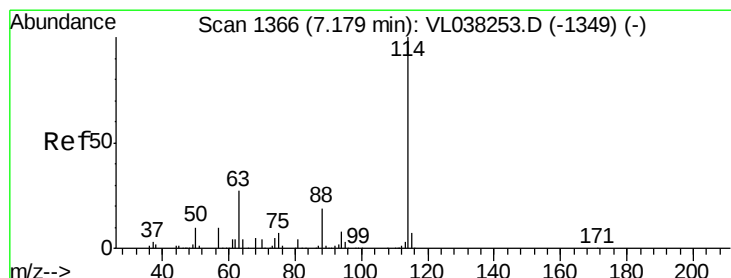
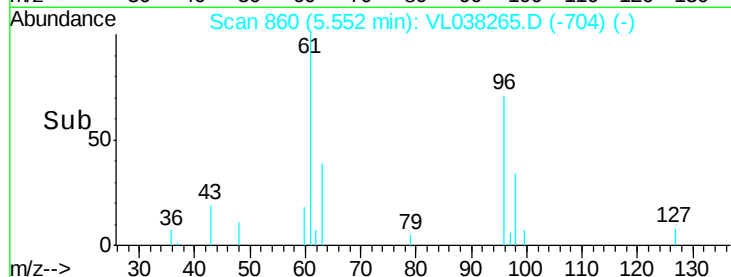
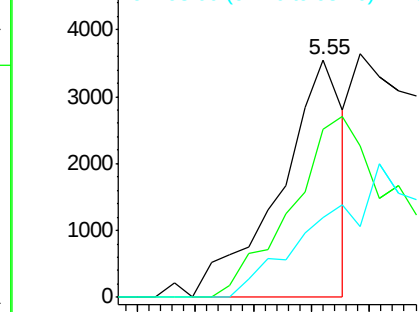
61 100

96 66.5 53.3 79.9

98 31.4 33.7 50.5#



Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.18 min Scan# 1367

Delta R.T. 0.00 min

Lab File: VL038265.D

Acq: 24 Jan 2022 18:30

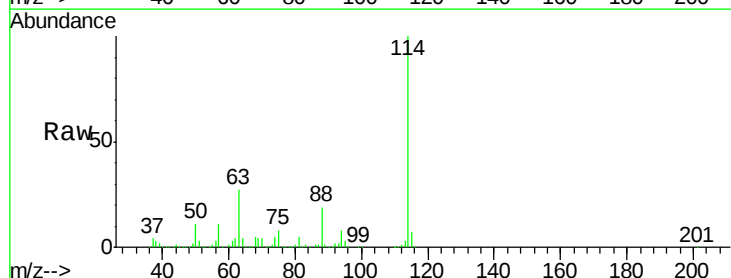
Tgt Ion: 114 Resp: 1966752

Ion Ratio Lower Upper

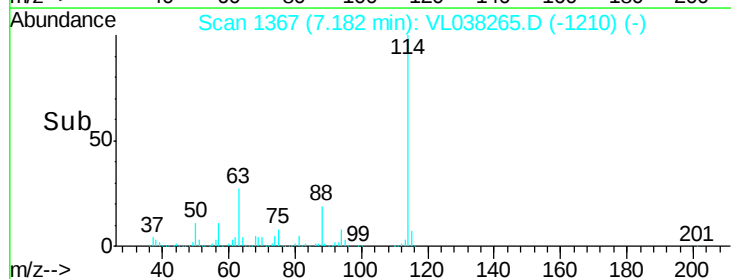
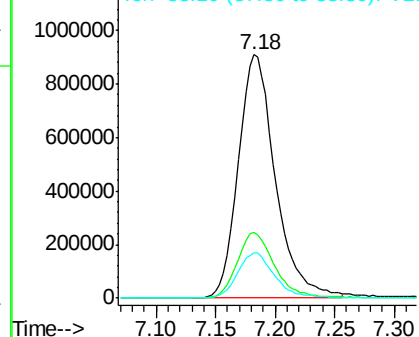
114 100

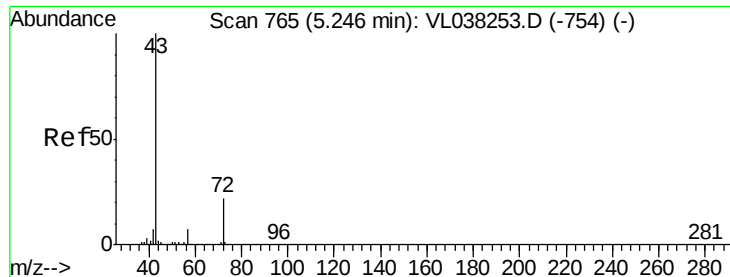
63 27.7 22.0 33.0

88 19.0 15.0 22.6



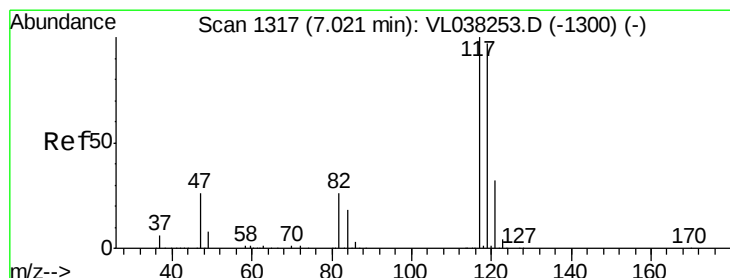
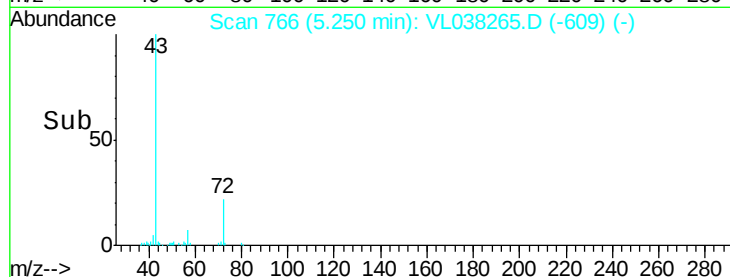
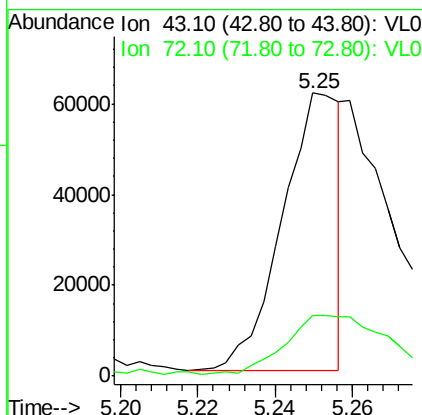
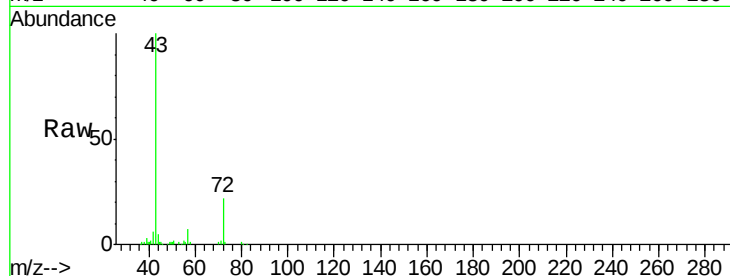
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





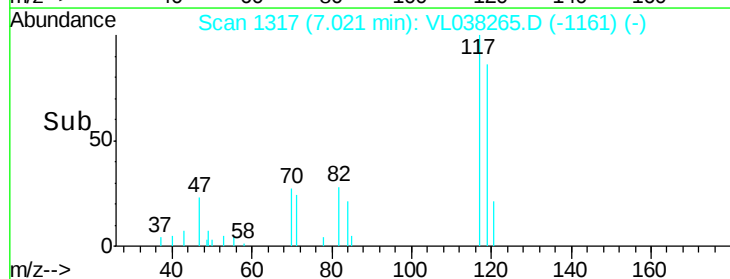
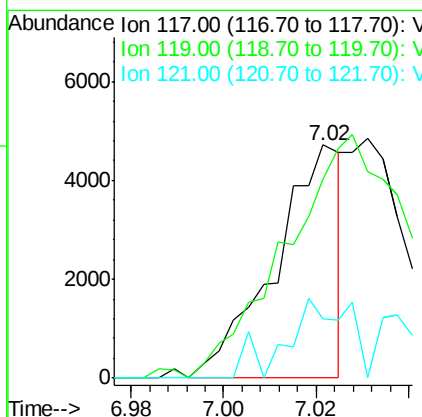
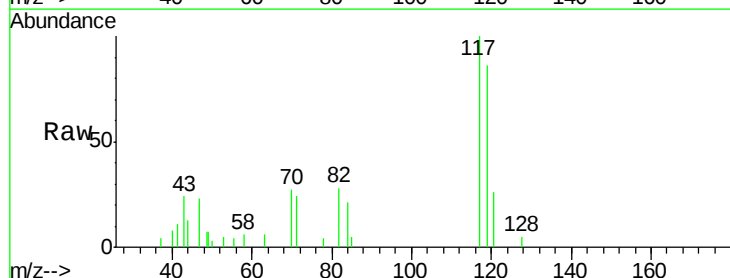
#34
 2-Butanone
 Concen: 0.988 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVE-EFFLUENT
 Acq: 24 Jan 2022 18:30

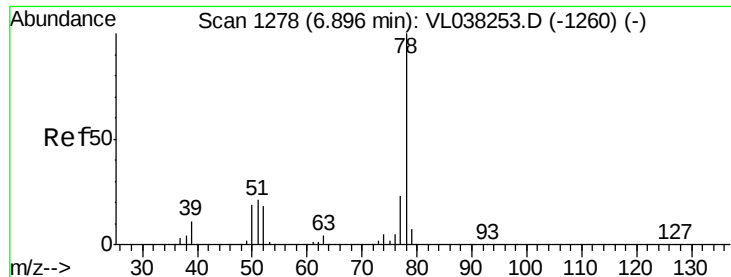
Tgt Ion: 43 Resp: 63565
 Ion Ratio Lower Upper
 43 100
 72 48.2 18.1 27.1#



#35
 Carbon Tetrachloride
 Concen: 0.034 ppbv
 RT: 7.02 min Scan# 1317
 Delta R.T. 0.00 min
 Lab File: VL038265.D
 Acq: 24 Jan 2022 18:30

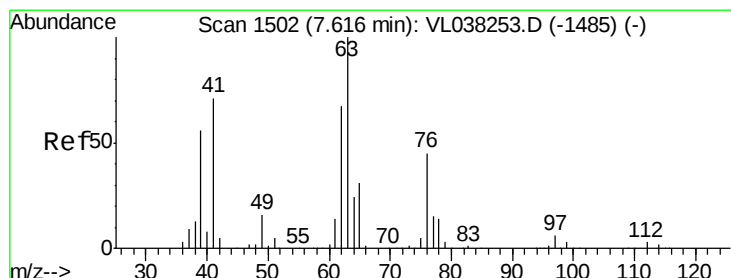
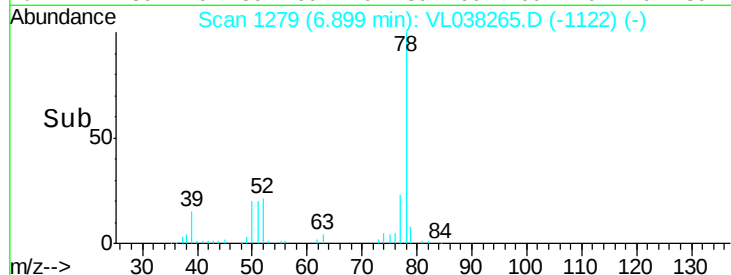
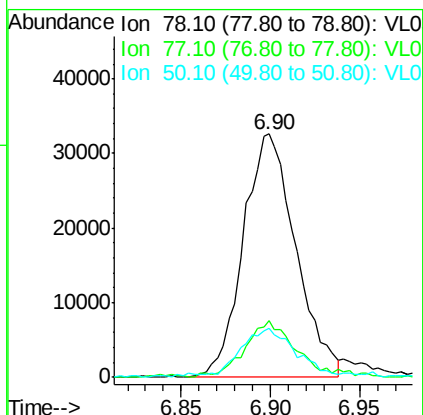
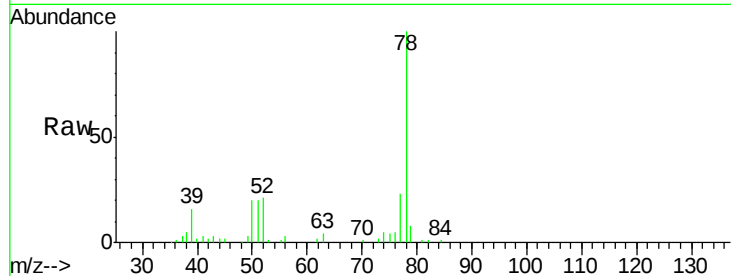
Tgt Ion: 117 Resp: 4703
 Ion Ratio Lower Upper
 117 100
 119 85.6 77.9 116.9
 121 25.6 25.4 38.2





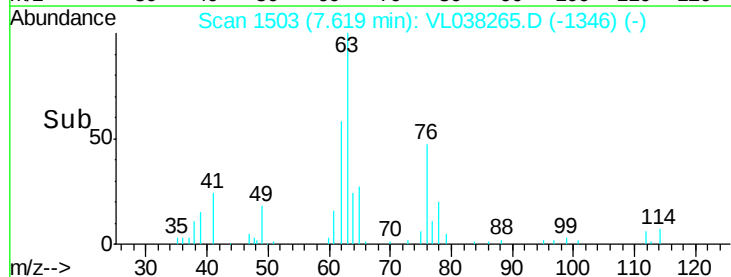
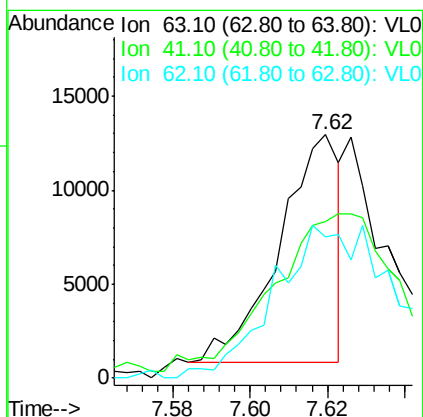
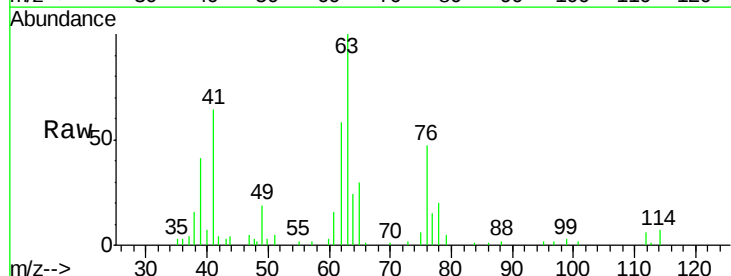
#36
Benzene
Concen: 0.386 ppbv
RT: 6.90
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
SVE-EFFLUENT
Acq: 24 Jan 2022 18:30

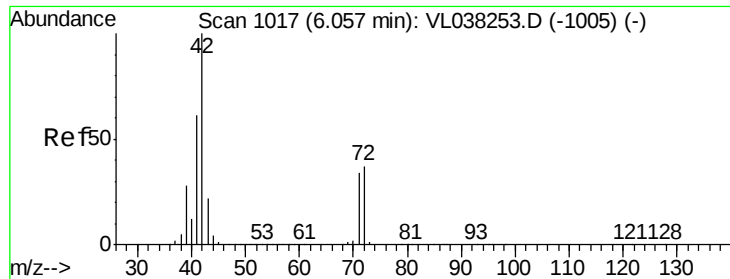
Tgt Ion: 78 Resp: 67128
Ion Ratio Lower Upper
78 100
77 23.3 18.2 27.2
50 19.1 15.1 22.7



#39
1,2-Dichloropropane
Concen: 0.186 ppbv
RT: 7.62 min Scan# 1503
Delta R.T. 0.00 min
Lab File: VL038265.D
Acq: 24 Jan 2022 18:30

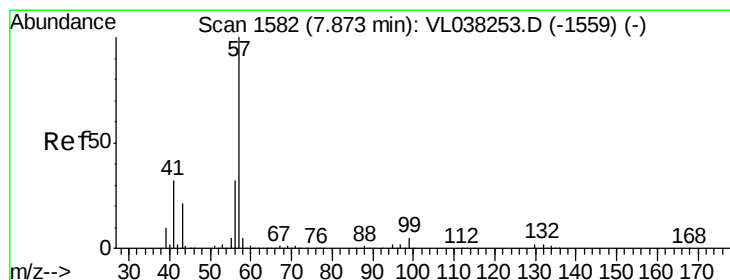
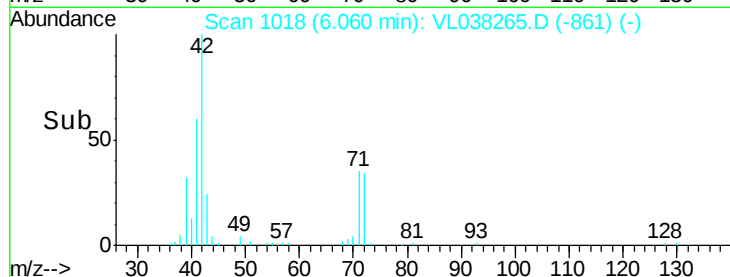
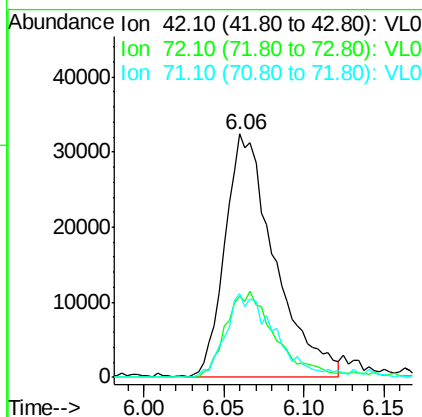
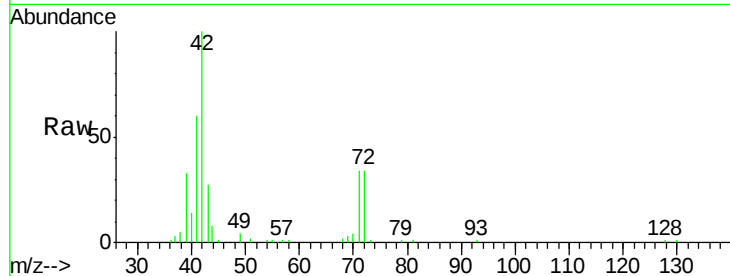
Tgt Ion: 63 Resp: 13103
Ion Ratio Lower Upper
63 100
41 61.0 56.6 85.0
62 58.0 53.9 80.9





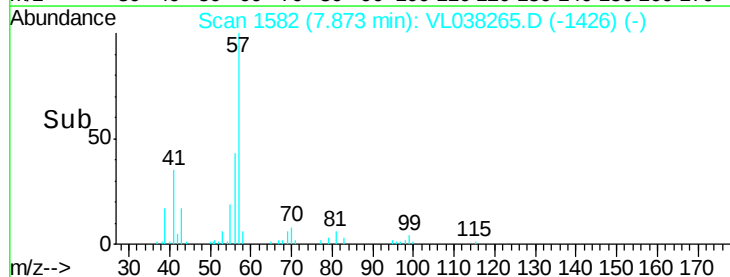
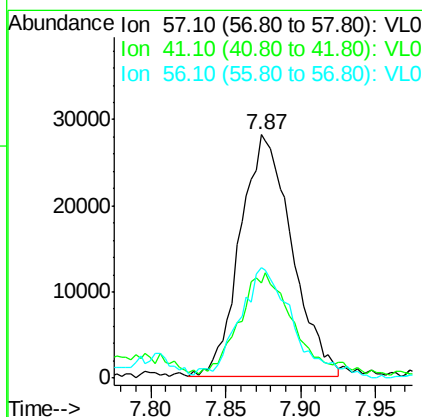
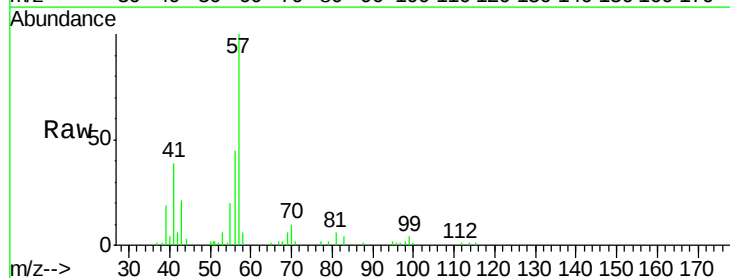
#41
Tetrahydrofuran
Concen: 1.595 ppbv
RT: 6.06
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 24 Jan 2022 18:30

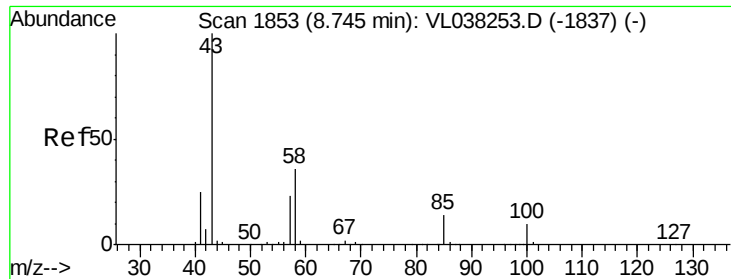
Tgt Ion: 42 Resp: 68975
Ion Ratio Lower Upper
42 100
72 36.7 29.7 44.5
71 35.8 29.4 44.2



#44
2,2,4-Trimethylpentane
Concen: 0.220 ppbv
RT: 7.87 min Scan# 1582
Delta R.T.: 0.00 min
Lab File: VL038265.D
Acq: 24 Jan 2022 18:30

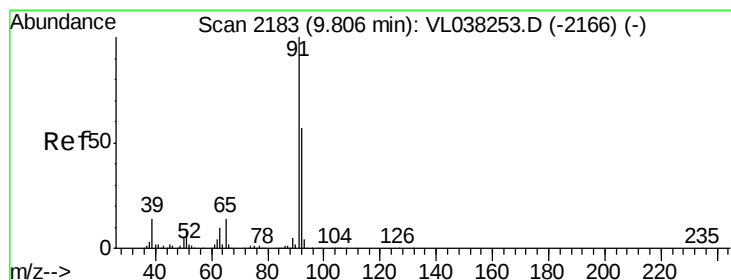
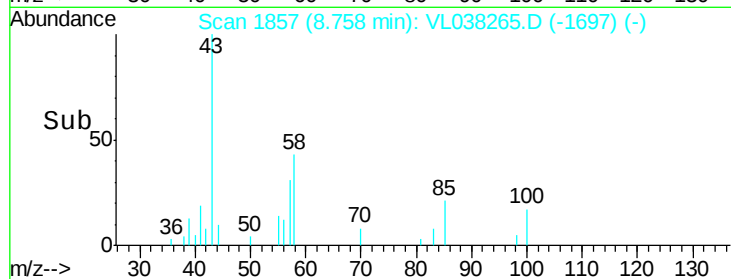
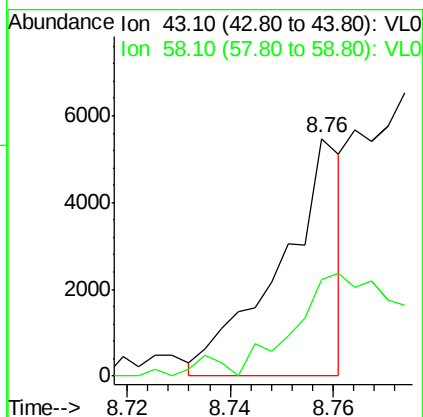
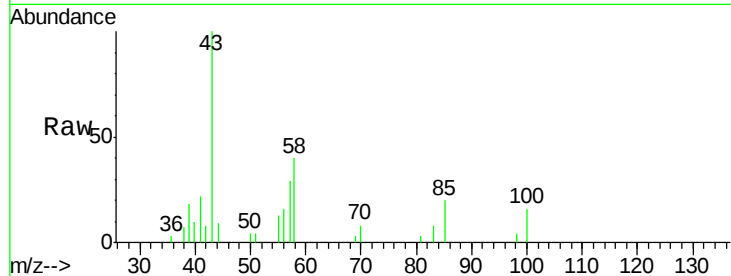
Tgt Ion: 57 Resp: 67550
Ion Ratio Lower Upper
57 100
41 50.1 26.3 39.5#
56 47.6 25.2 37.8#





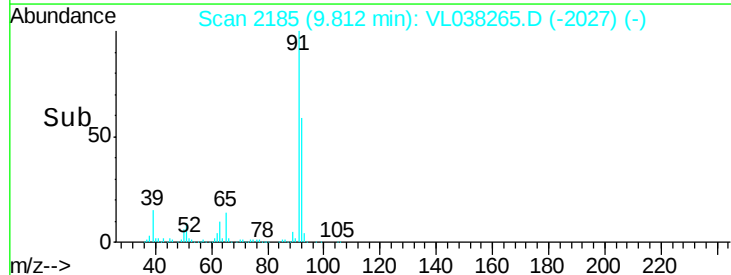
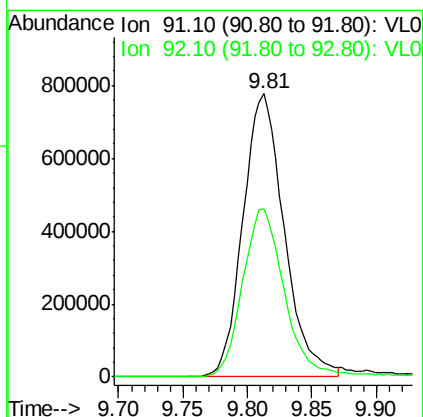
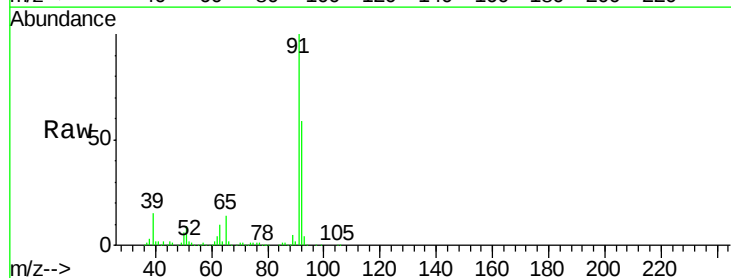
#50
 4-Methyl-2-Pentanone
 Concen: 0.040 ppbv
 RT: 8.76 Instrument : MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 SVE-EFFLUENT
 Acq: 24 Jan 2022 18:30

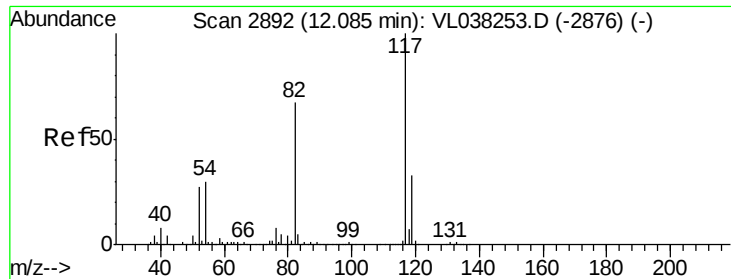
Tgt Ion: 43 Resp: 4556
 Ion Ratio Lower Upper
 43 100
 58 143.9 28.2 42.4#



#53
 Toluene
 Concen: 9.000 ppbv
 RT: 9.81 min Scan# 2185
 Delta R.T. 0.01 min
 Lab File: VL038265.D
 Acq: 24 Jan 2022 18:30

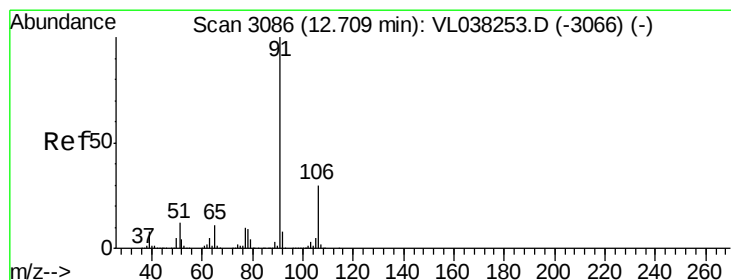
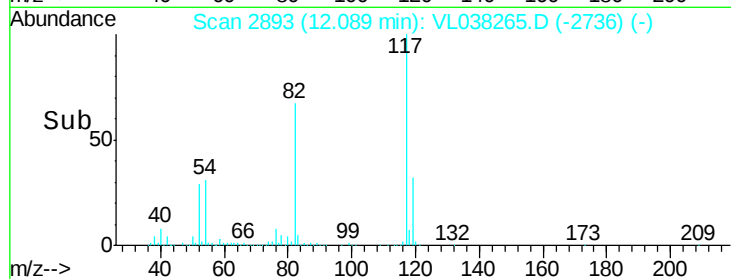
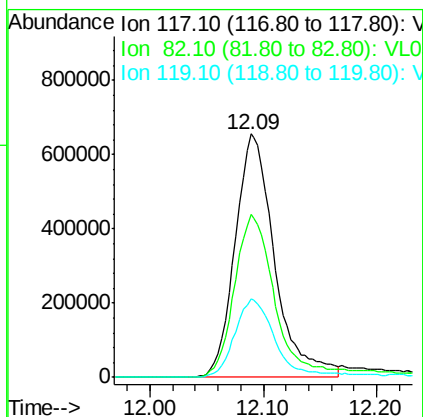
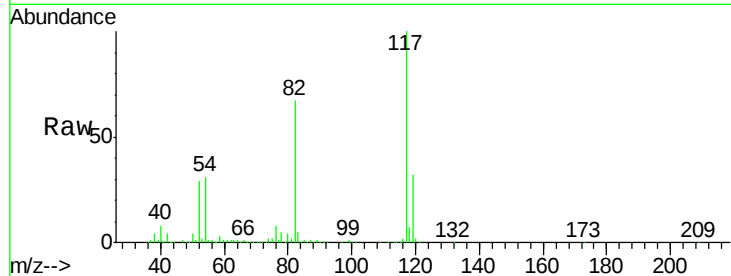
Tgt Ion: 91 Resp: 1733011
 Ion Ratio Lower Upper
 91 100
 92 61.5 47.4 71.0





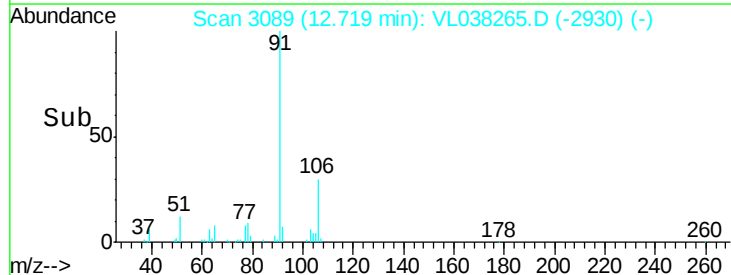
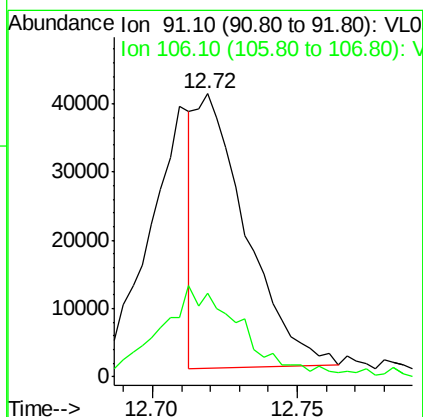
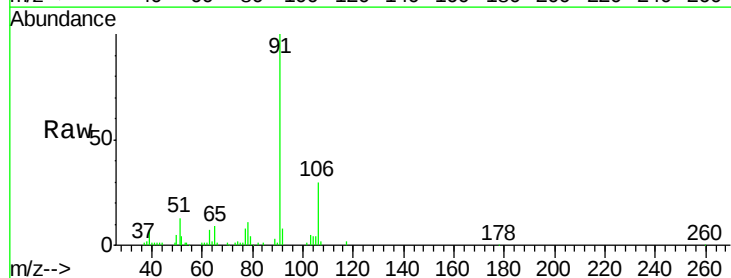
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.09 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SVE-EFFLUENT
Acq: 24 Jan 2022 18:30

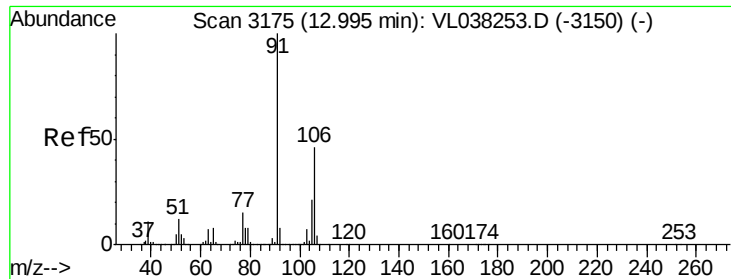
Tgt Ion: 117 Resp: 1596869
Ion Ratio Lower Upper
117 100
82 74.4 54.4 81.6
119 33.8 45.9 68.9#



#58
Ethyl Benzene
Concen: 0.208 ppbv
RT: 12.72 min Scan# 3089
Delta R.T.: 0.01 min
Lab File: VL038265.D
Acq: 24 Jan 2022 18:30

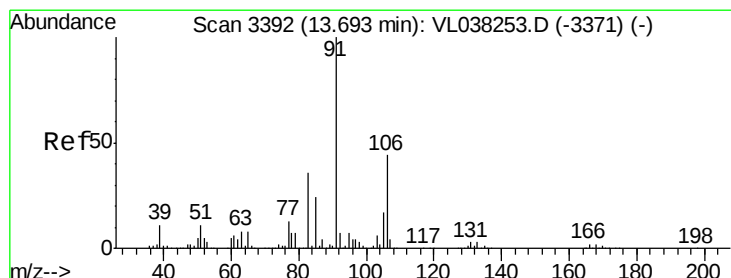
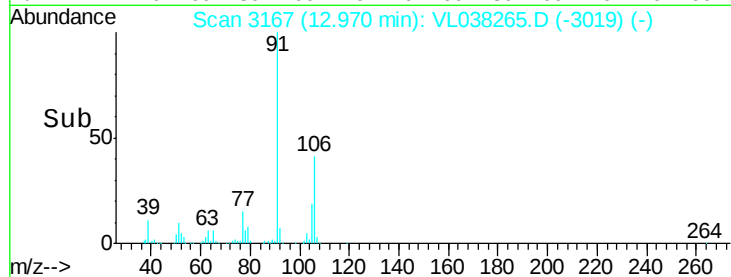
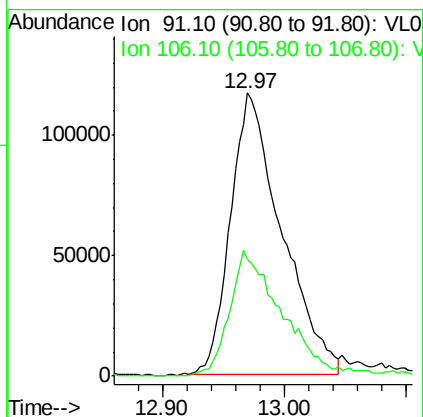
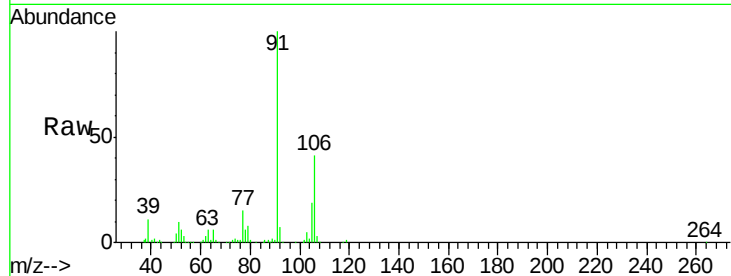
Tgt Ion: 91 Resp: 48768
Ion Ratio Lower Upper
91 100
106 29.4 24.1 36.1





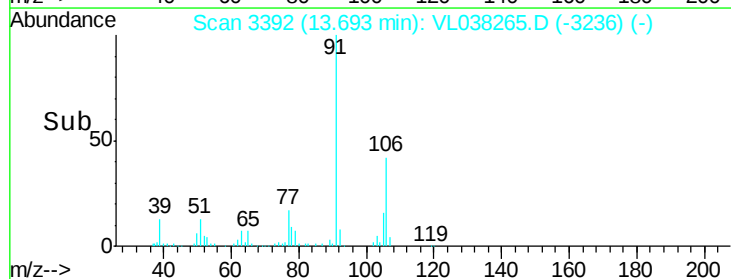
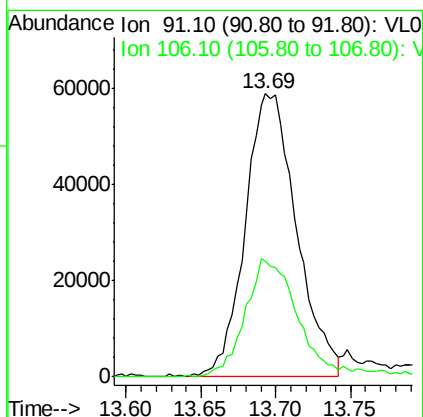
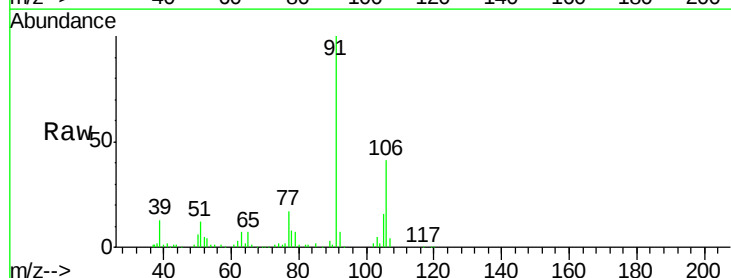
#59
m/p-Xylene
Concen: 1.701 ppbv
RT: 12.97 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
SVE-EFFLUENT
Acq: 24 Jan 2022 18:30

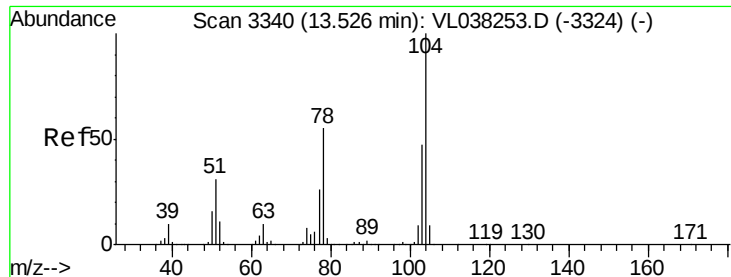
Tgt Ion: 91 Resp: 340499
Ion Ratio Lower Upper
91 100
106 47.0 34.8 52.2



#60
o-Xylene
Concen: 0.758 ppbv
RT: 13.69 min Scan# 3392
Delta R.T.: 0.00 min
Lab File: VL038265.D
Acq: 24 Jan 2022 18:30

Tgt Ion: 91 Resp: 141131
Ion Ratio Lower Upper
91 100
106 43.5 22.2 66.6





#61

Styrene

Concen: 0.102 ppbv

RT: 13.53

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jan 2022 18:30 SVE-EFFLUENT

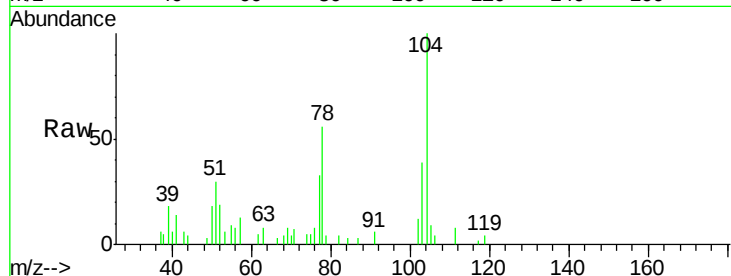
Tgt Ion: 104 Resp: 8851

Ion Ratio Lower Upper

104 100

78 0.0 44.2 66.4#

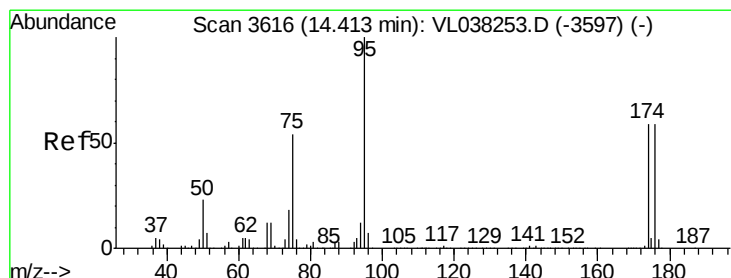
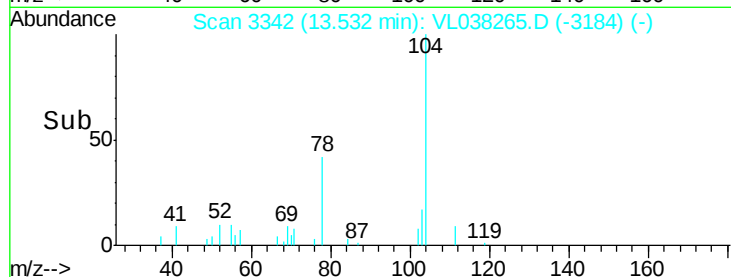
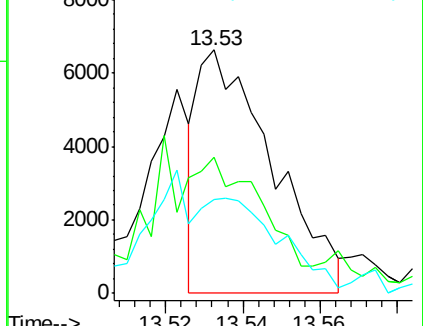
103 0.0 38.2 57.4#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#68

1-Bromo-4-Fluorobenzene

Concen: 10.069 ppbv

RT: 14.42 min Scan# 3618

Delta R.T. 0.01 min

Lab File: VL038265.D

Acq: 24 Jan 2022 18:30

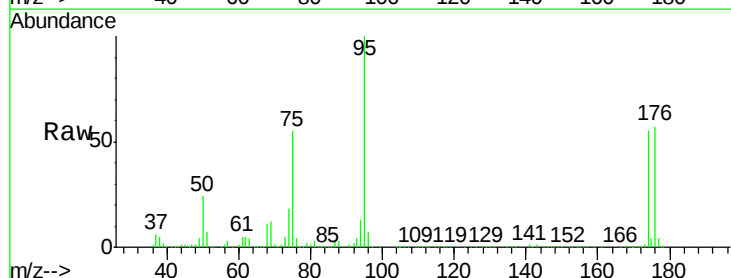
Tgt Ion: 95 Resp: 1220342

Ion Ratio Lower Upper

95 100

174 63.9 48.3 72.5

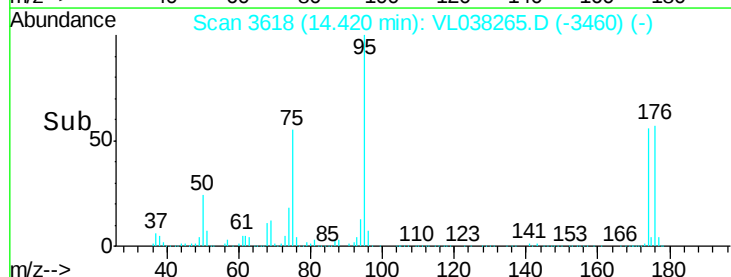
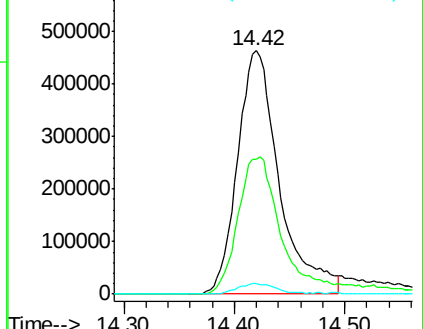
175 4.7 3.5 5.3

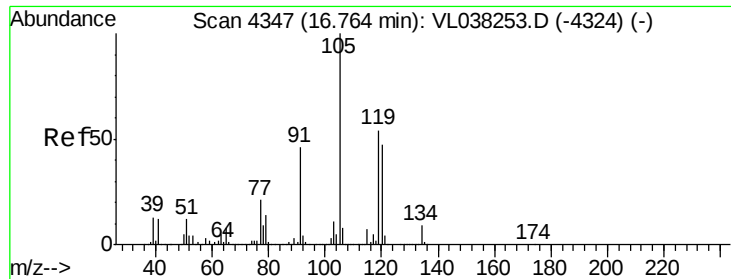


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.353 ppbv
 RT: 16.77
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SVE-EFFLUENT
 Acq: 24 Jan 2022 16:30

Tgt Ion:	105	Resp:	65198
Ion Ratio	Lower	Upper	
105	100		
120	39.2	37.2	55.8
91	13.8	36.6	55.0#
77	13.6	16.9	25.3#

