

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041222\
 Data File : VL038896.D
 Acq On : 12 Apr 2022 17:49
 Operator : SY/AP
 Sample : N2339-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-EFFLUENT

Quant Time: Apr 13 01:17:13 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

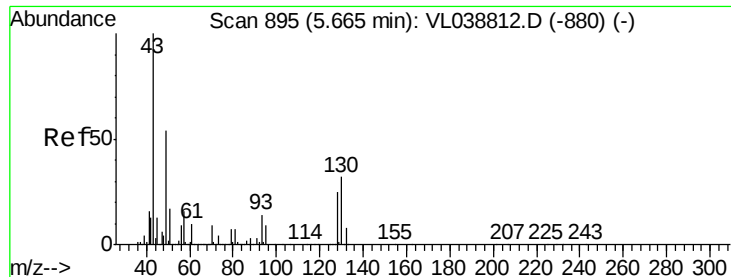
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1095855	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	2663691	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2266595	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1780793	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	105463	0.678	ppbv 99
3) Chlorodifluoromethane	2.99	51	87754	0.656	ppbv # 82
4) Chloromethane	3.14	50	21941	0.317	ppbv # 89
9) Propene	3.02	41	21188	0.299	ppbv 90
10) Heptane	8.11	43	6501	0.036	ppbv # 1
11) Trichlorofluoromethane	3.95	101	44970	0.360	ppbv 88
13) Ethanol	3.60	45	60737	14.124	ppbv # 100
15) Acetone	3.85	43	152540	1.398	ppbv # 54
16) 1,3-Butadiene	3.31	39	2513	0.040	ppbv # 9
19) Isopropyl Alcohol	3.99	45	5179	0.093	ppbv # 100
20) Methylene Chloride	4.34	84	173235	4.378	ppbv 98
22) trans-1,2-Dichloroethene	4.88	96	6140	0.139	ppbv # 91
23) Vinyl Acetate	5.06	43	12005	0.113	ppbv # 1
25) Ethyl Acetate	5.69	43	139913	0.505	ppbv # 77
26) Hexane	5.68	57	198208	1.573	ppbv # 41
29) Chloroform	5.75	83	91886	0.521	ppbv 93
31) cis-1,2-Dichloroethene	5.55	61	576934	4.980	ppbv 93
32) 1,1,1-Trichloroethane	6.51	97	163437	0.920	ppbv 96
34) 2-Butanone	5.25	43	96274	0.915	ppbv # 88
35) Carbon Tetrachloride	7.01	117	4879	0.031	ppbv # 77
36) Benzene	6.88	78	29309	0.121	ppbv 95
38) Trichloroethene	7.83	130	14672	0.148	ppbv # 87
39) 1,2-Dichloropropane	7.17	63	702083	7.575	ppbv # 27
41) Tetrahydrofuran	6.06	42	6982	0.070	ppbv # 30
44) 2,2,4-Trimethylpentane	7.86	57	19500	0.048	ppbv # 32
52) Tetrachloroethene	11.21	164	554305	6.549	ppbv 96
53) Toluene	9.80	91	115818	0.414	ppbv 95
60) o-Xylene	13.68	91	9374	0.035	ppbv # 45

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SVE-EFFLUENT

Acq: 12 Apr 2022 17:49

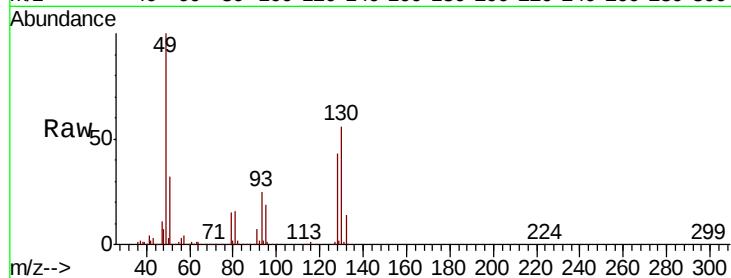
Tot Ion: 49 Resp: 1095855

Ion Ratio Lower Upper

49 100

128 45.6 24.1 72.3

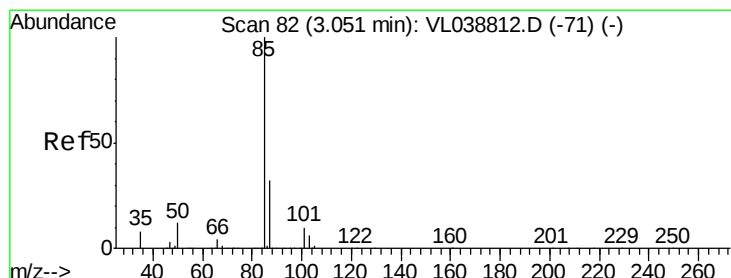
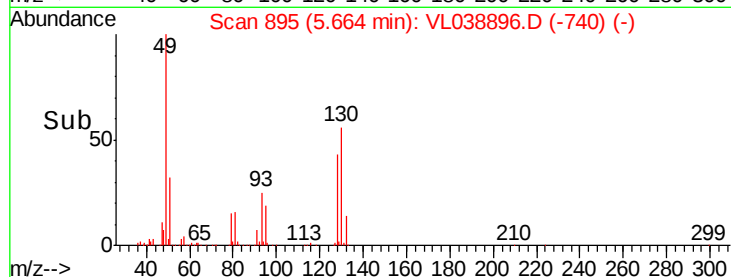
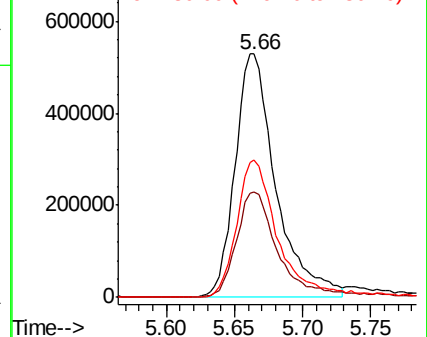
130 59.7 30.9 92.8



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: 0.678 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL038896.D

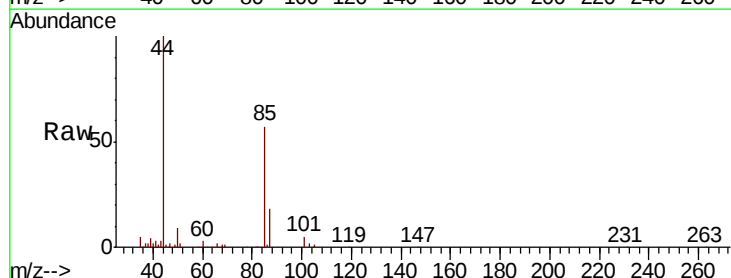
Acq: 12 Apr 2022 17:49

Tgt Ion: 85 Resp: 105463

Ion Ratio Lower Upper

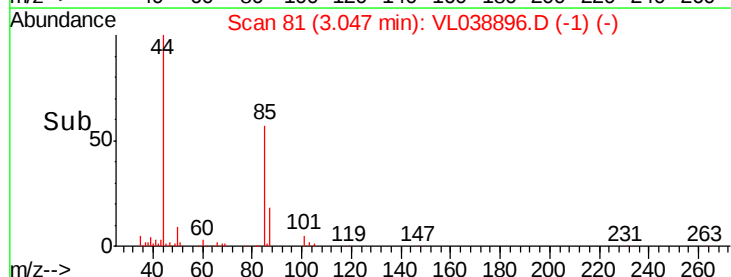
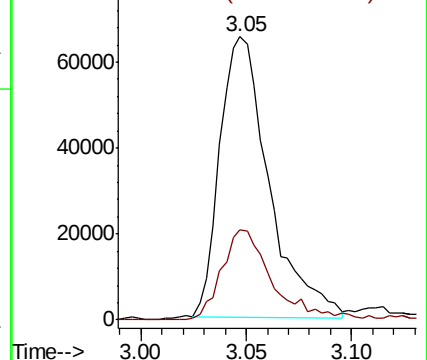
85 100

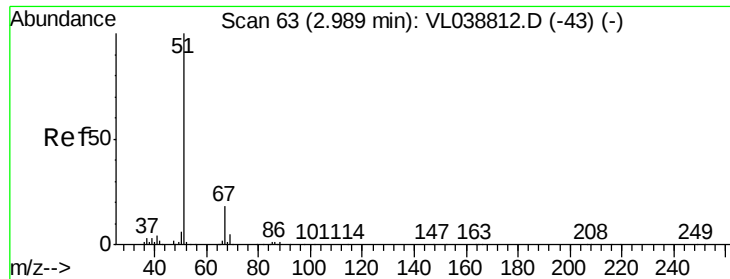
87 31.6 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.656 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SVE-EFFLUENT

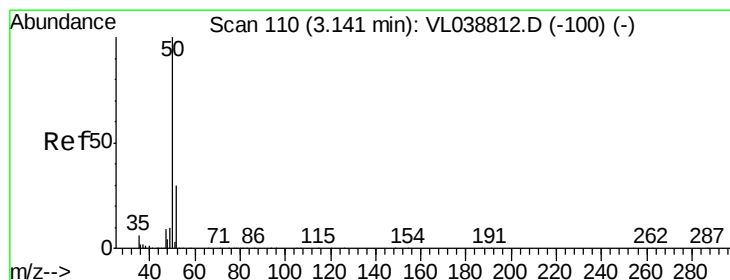
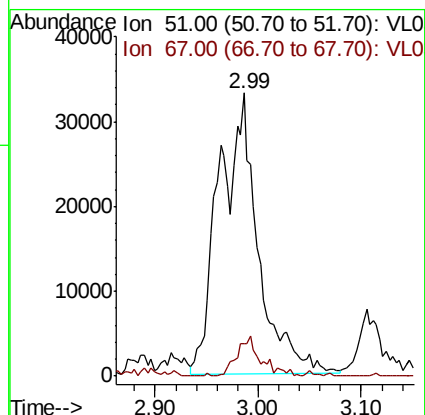
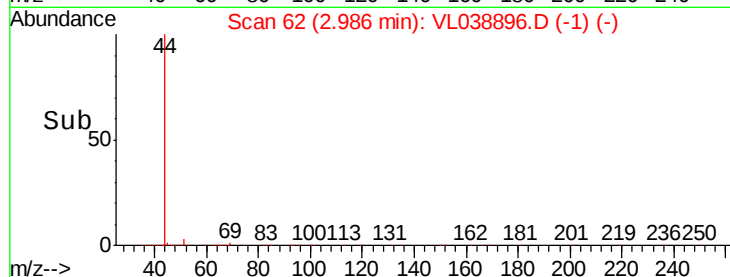
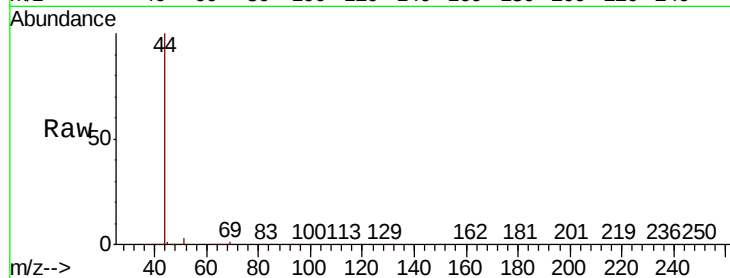
Acq: 12 Apr 2022 17:49

Tot Ion: 51 Resp: 87754

Ion Ratio Lower Upper

51 100

67 8.8 13.4 20.0#



#4

Chloromethane

Concen: 0.317 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.00 min

Lab File: VL038896.D

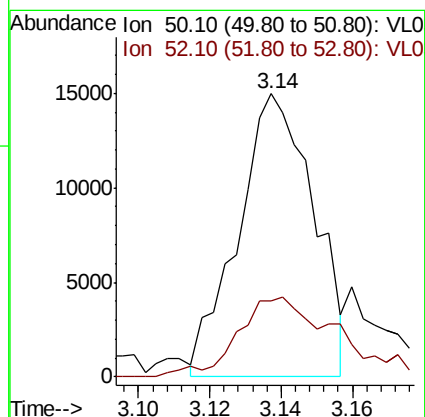
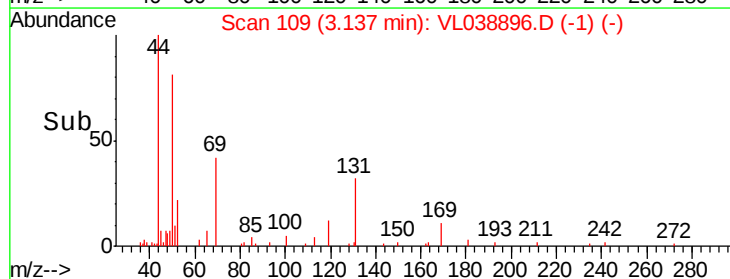
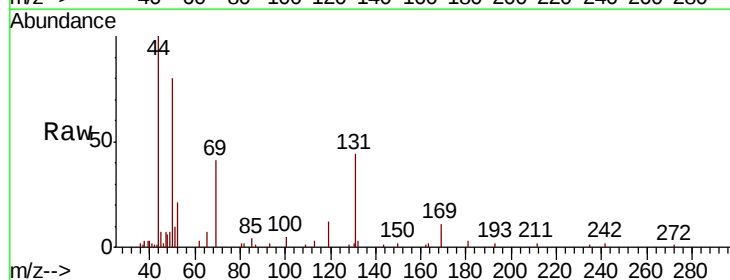
Acq: 12 Apr 2022 17:49

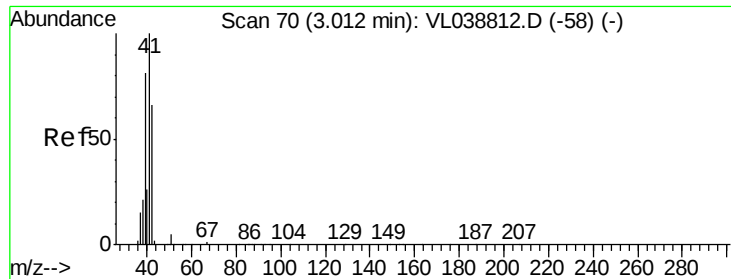
Tgt Ion: 50 Resp: 21941

Ion Ratio Lower Upper

50 100

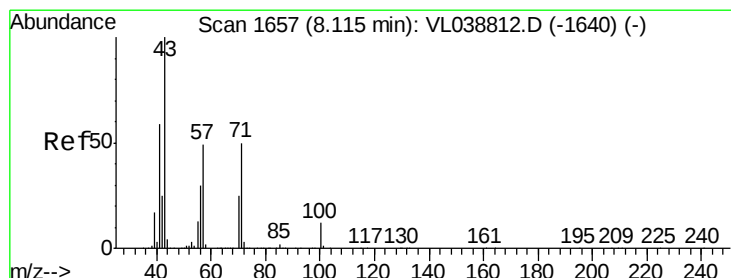
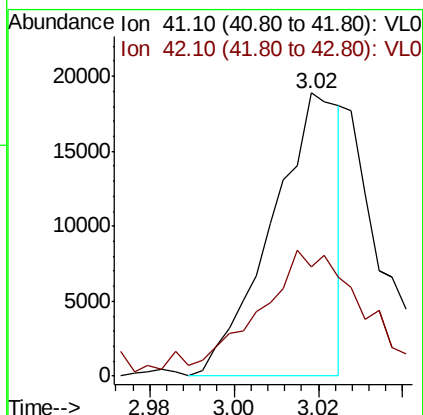
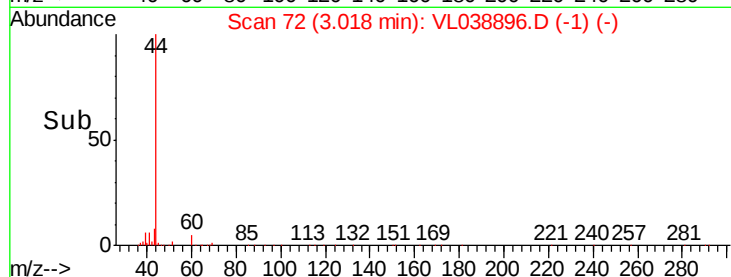
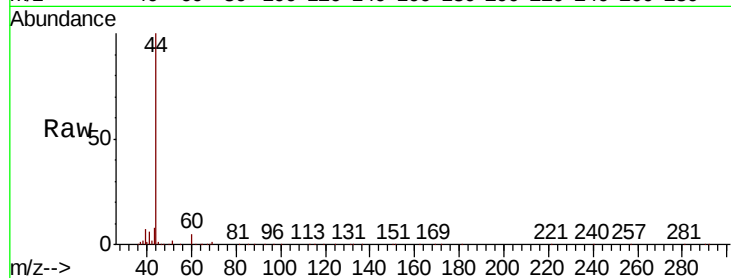
52 24.2 24.3 36.5#





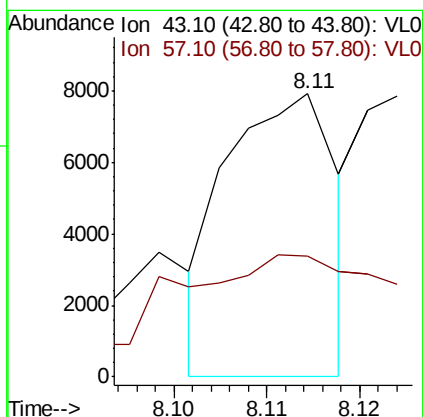
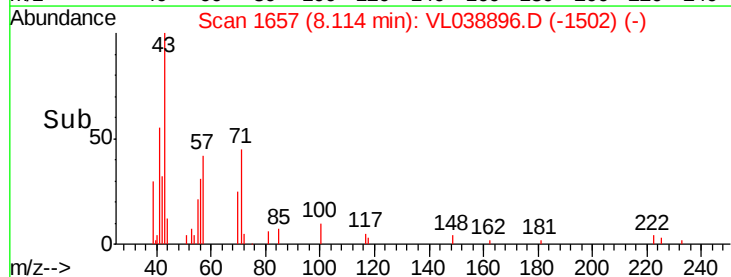
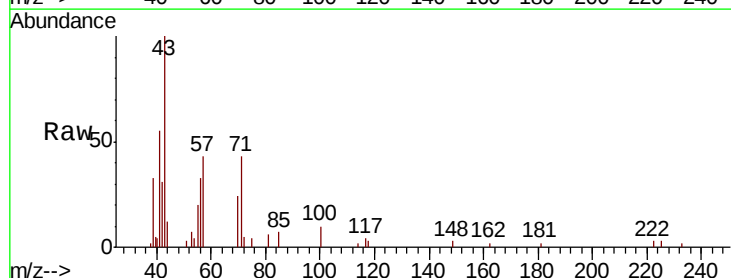
#9
 Propene
 Concen: 0.299 ppbv
 RT: 3.02
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 SVE-EFFLUENT
 Acq: 12 Apr 2022 17:49

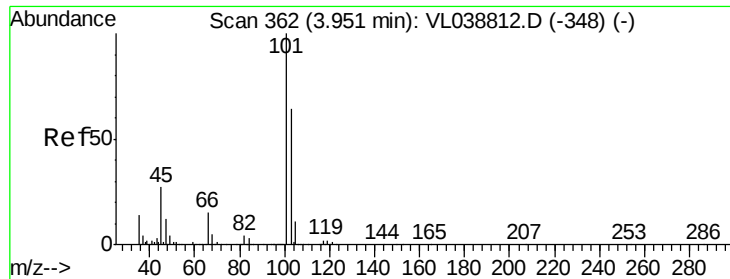
Tot Ion: 41 Resp: 21188
 Ion Ratio Lower Upper
 41 100
 42 75.9 54.2 81.4



#10
 Heptane
 Concen: 0.036 ppbv
 RT: 8.11 min Scan# 1657
 Delta R.T. -0.00 min
 Lab File: VL038896.D
 Acq: 12 Apr 2022 17:49

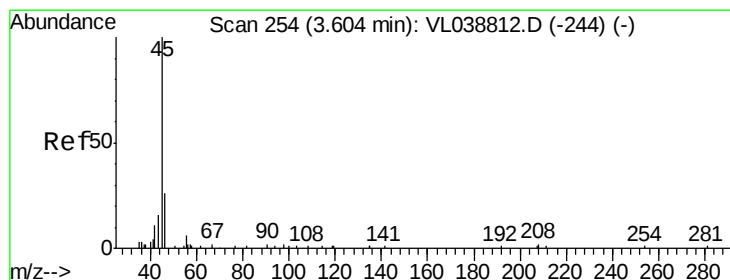
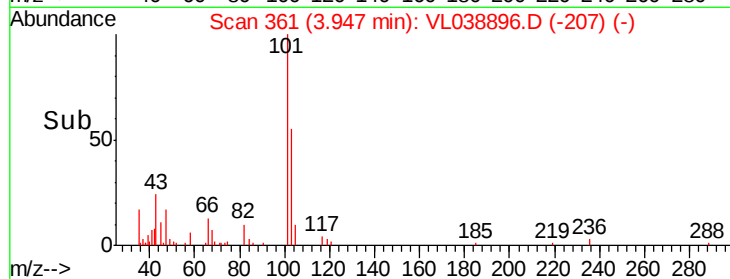
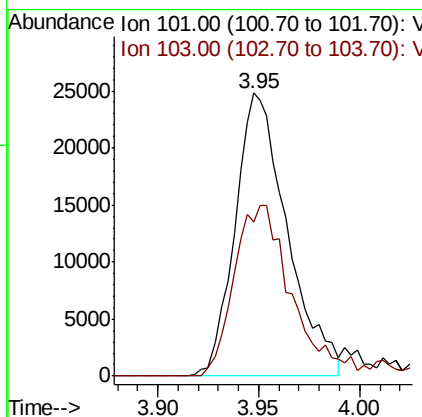
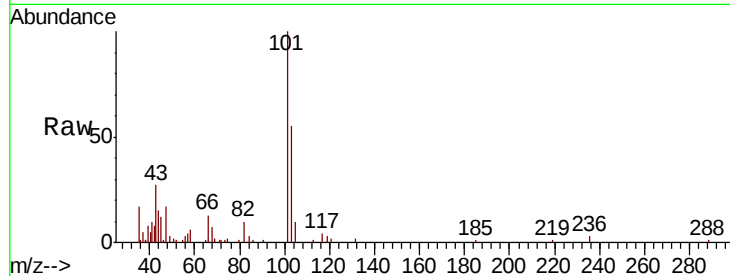
Tgt Ion: 43 Resp: 6501
 Ion Ratio Lower Upper
 43 100
 57 133.3 39.3 58.9#





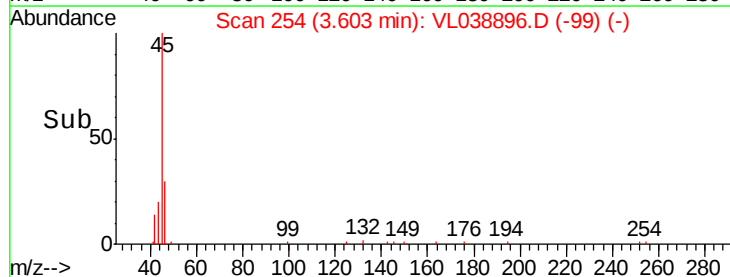
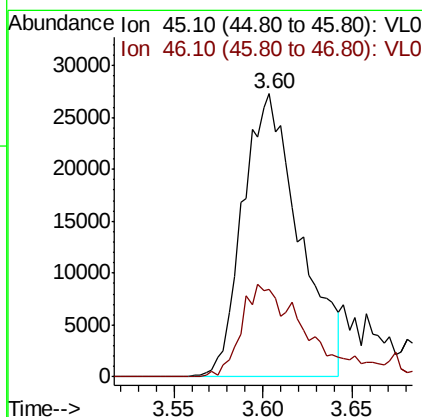
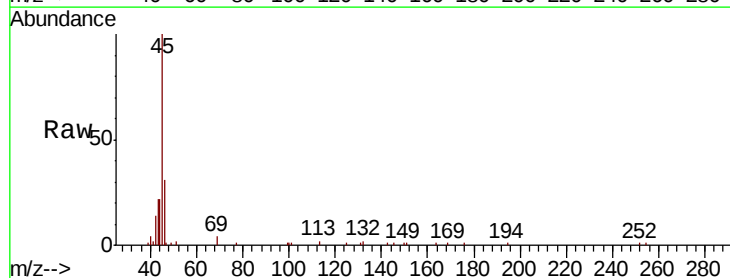
#11
 Trichlorofluoromethane
 Concen: 0.360 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVE-EFFLUENT
 Acq: 12 Apr 2022 17:49

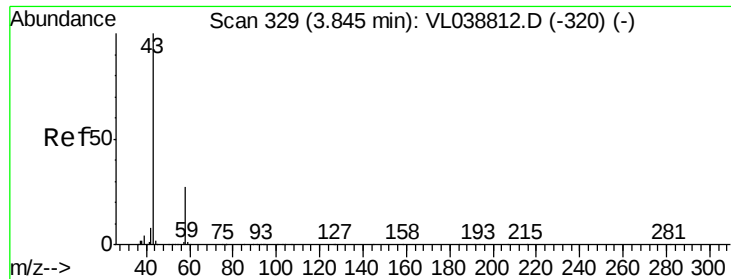
Tot Ion:101 Resp: 44970
 Ion Ratio Lower Upper
 101 100
 103 54.6 51.4 77.0



#13
 Ethanol
 Concen: 14.124 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.00 min
 Lab File: VL038896.D
 Acq: 12 Apr 2022 17:49

Tgt Ion: 45 Resp: 60737
 Ion Ratio Lower Upper
 45 100
 46 35.6 0.0 0.0#





#15

Acetone

Concen: 1.398 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

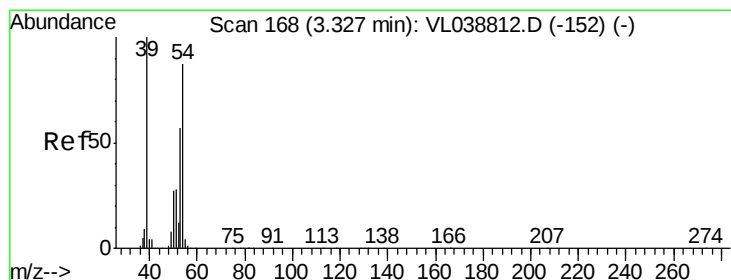
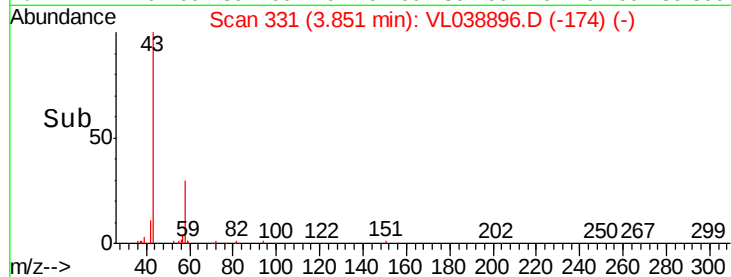
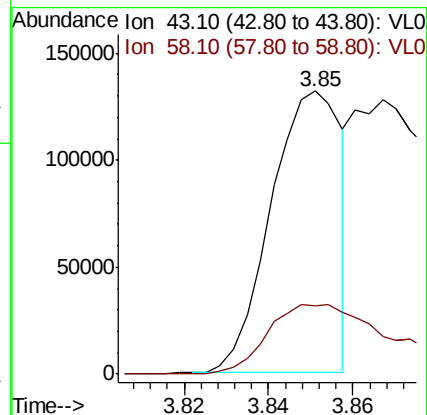
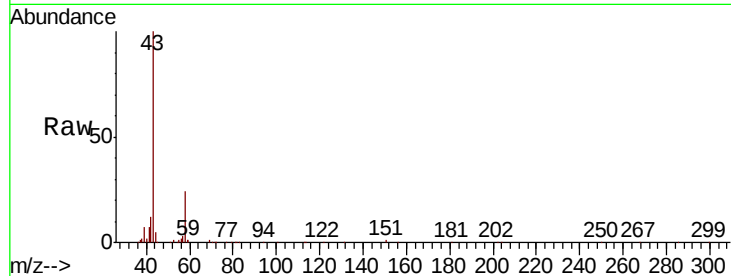
Acq: 12 Apr 2022 17:49 SVE-EFFLUENT

Tot Ion: 43 Resp: 152540

Ion Ratio Lower Upper

43 100

58 52.3 22.5 33.7#



#16

1,3-Butadiene

Concen: 0.040 ppbv

RT: 3.31 min Scan# 163

Delta R.T. -0.02 min

Lab File: VL038896.D

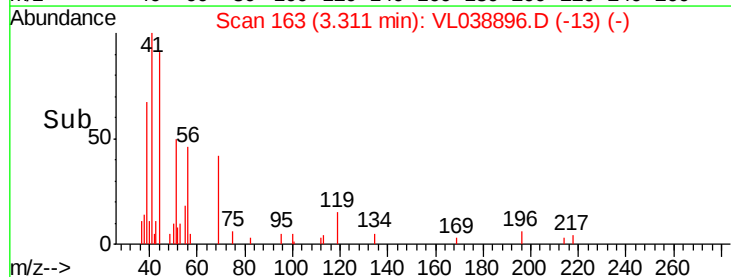
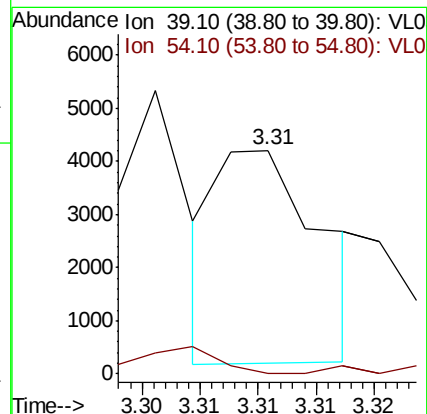
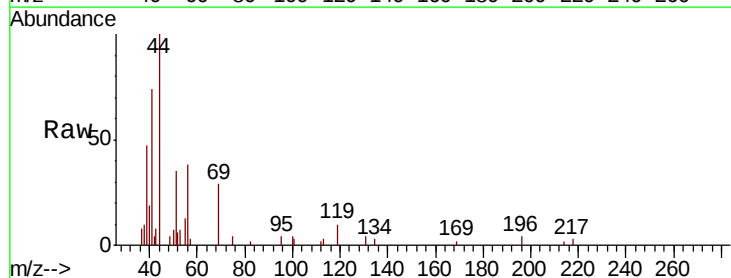
Acq: 12 Apr 2022 17:49

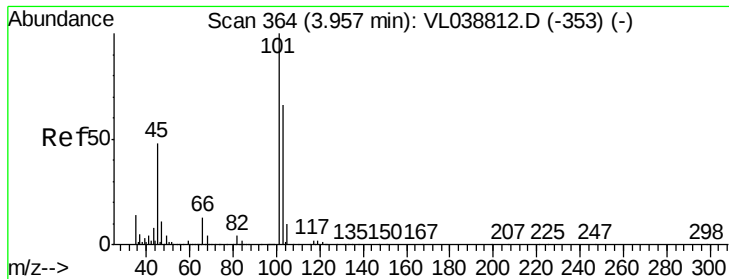
Tgt Ion: 39 Resp: 2513

Ion Ratio Lower Upper

39 100

54 0.0 64.8 97.2#





#19

Isopropyl Alcohol

Concen: 0.093 ppbv

RT: 3.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: SVE-EFFLUENT

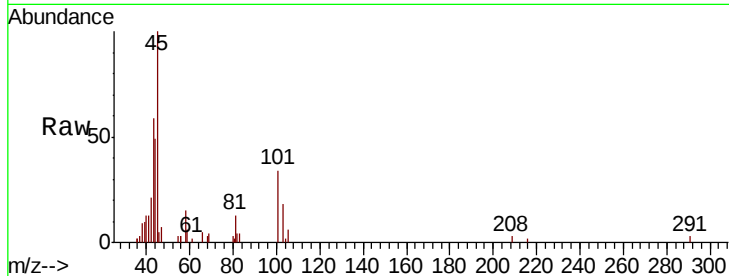
Acq: 12 Apr 2022 17:49

Tot Ion: 45 Resp: 5179

Ion Ratio Lower Upper

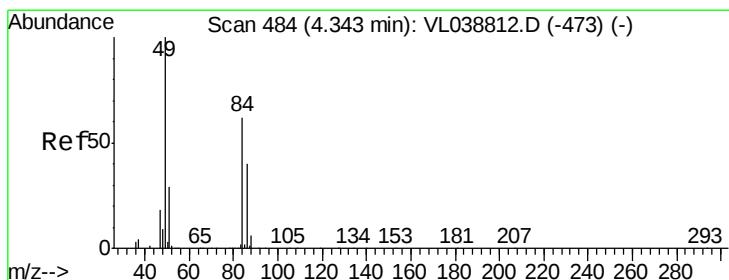
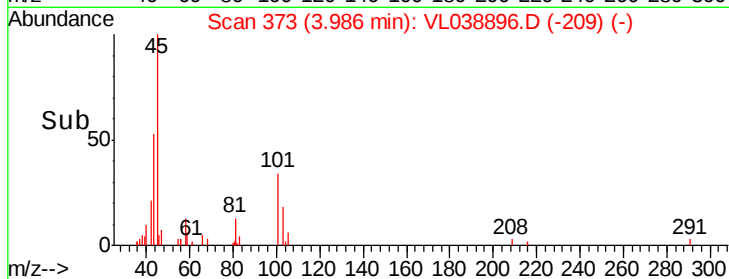
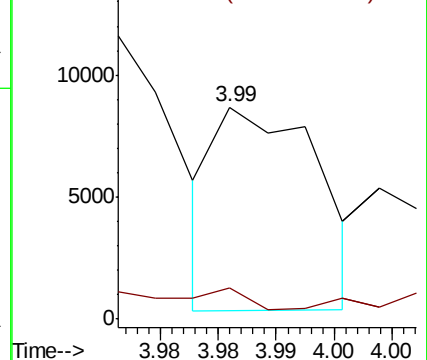
45 100

58 0.0 0.0 0.0



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 4.378 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.00 min

Lab File: VL038896.D

Acq: 12 Apr 2022 17:49

Tgt Ion: 84 Resp: 173235

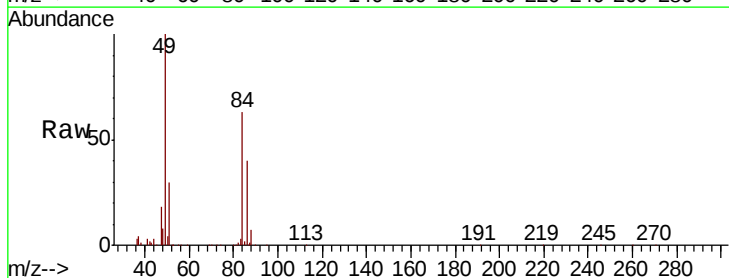
Ion Ratio Lower Upper

84 100

49 157.3 129.4 194.0

51 46.4 37.4 56.2

86 63.0 51.4 77.2

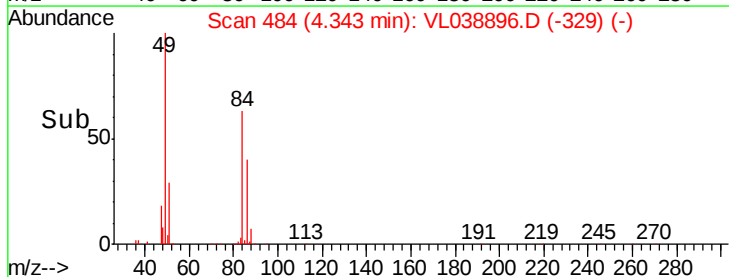
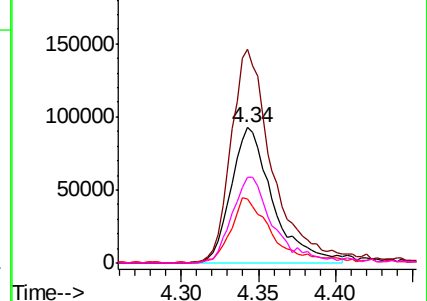


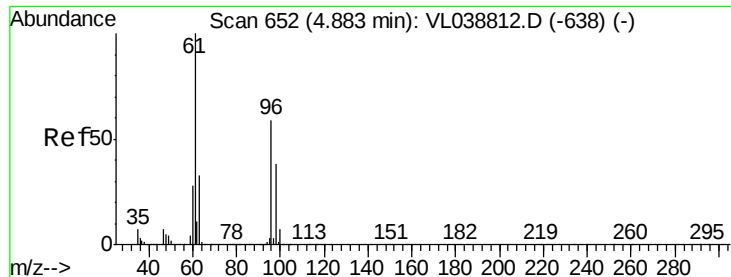
Abundance Ion 84.00 (83.70 to 84.70): VL0

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





#22

trans-1,2-Dichloroethene

Concen: 0.139 ppbv

RT: 4.88 Instrument: MSVOA_1

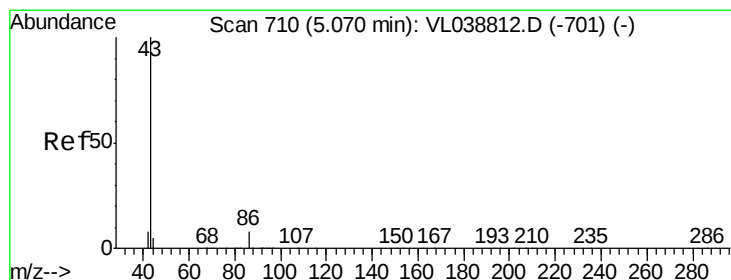
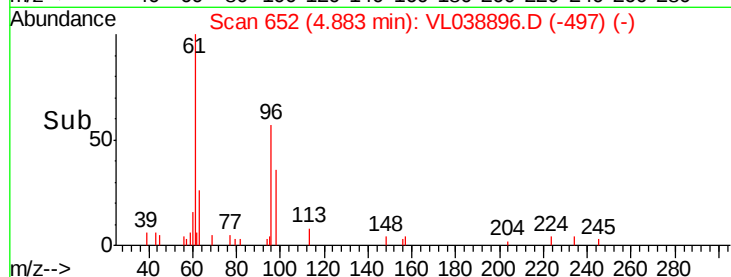
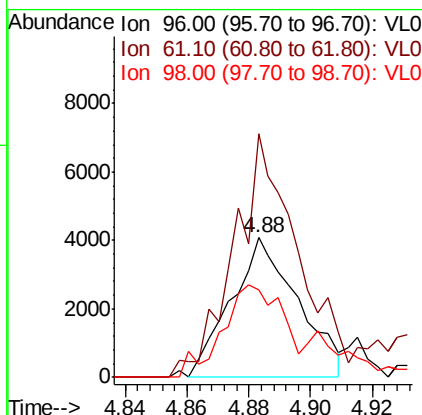
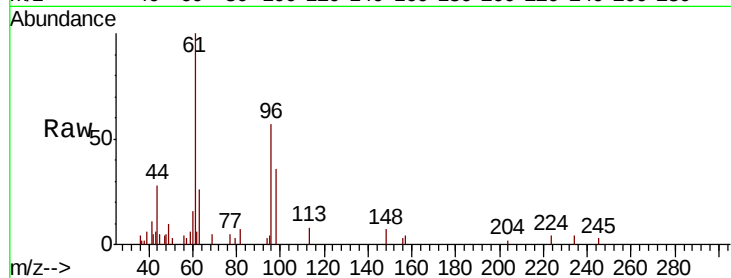
Delta R.T. ClientSampleId:

Lab File: SVE-EFFLUENT

Acq: 12 Apr 2022 17:49

Tot Ion: 96 Resp: 6140

Ion	Ratio	Lower	Upper
96	100		
61	162.8	134.8	202.2
98	47.1	51.9	77.9#



#23

Vinyl Acetate

Concen: 0.113 ppbv

RT: 5.06 min Scan# 708

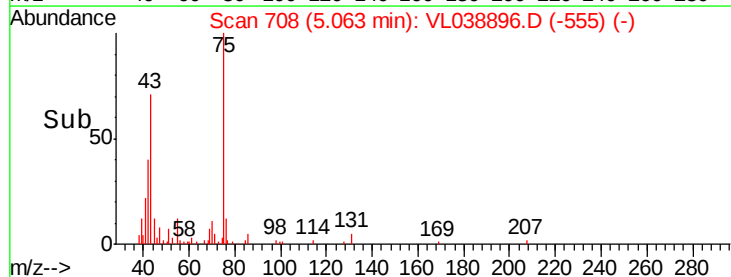
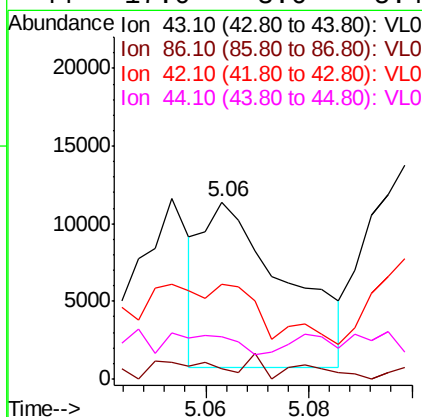
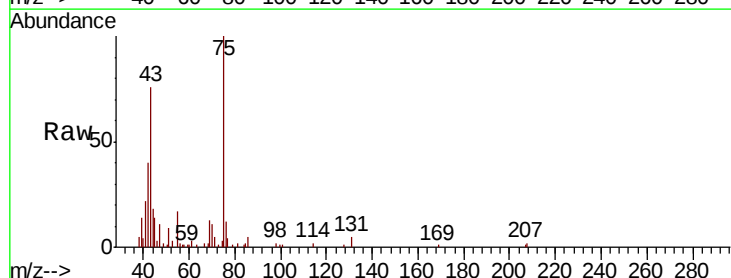
Delta R.T. -0.01 min

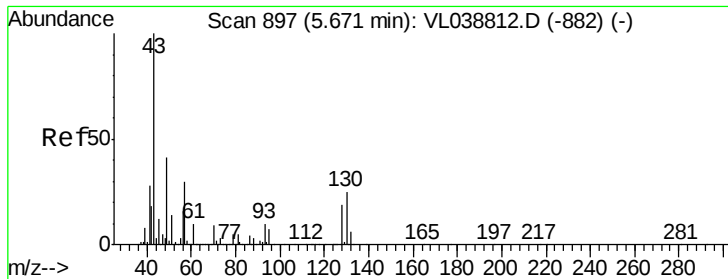
Lab File: VL038896.D

Acq: 12 Apr 2022 17:49

Tgt Ion: 43 Resp: 12005

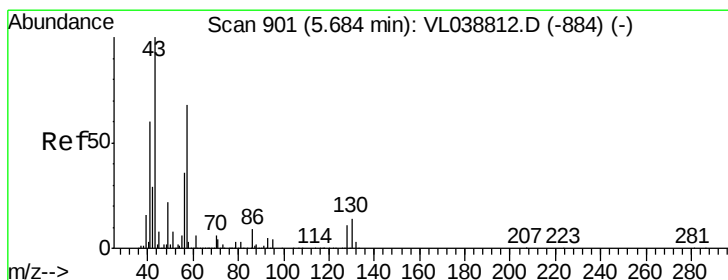
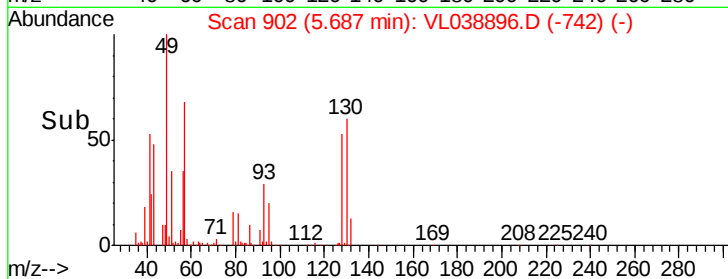
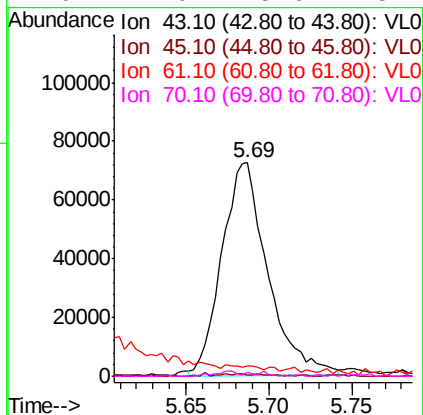
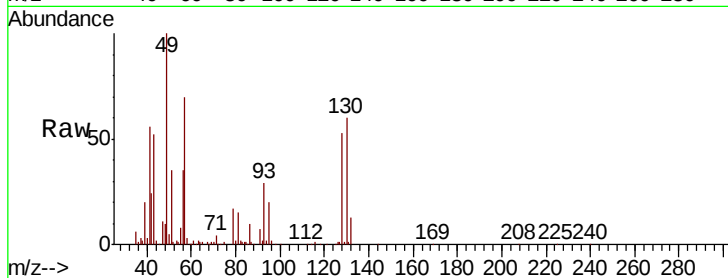
Ion	Ratio	Lower	Upper
43	100		
86	6.6	5.8	8.6
42	87.9	7.8	11.6#
44	17.0	3.6	5.4#





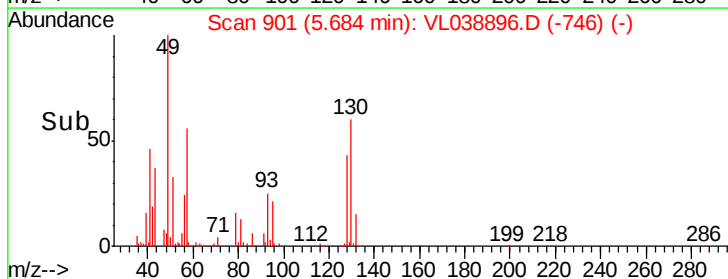
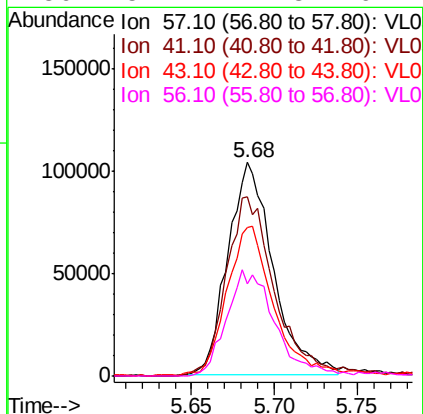
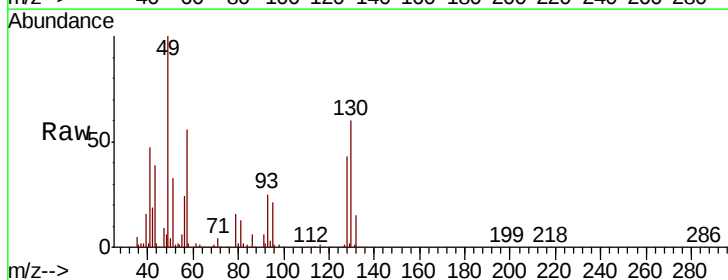
#25
Ethyl Acetate
Concen: 0.505 ppbv
RT: 5.69
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 12 Apr 2022 17:49

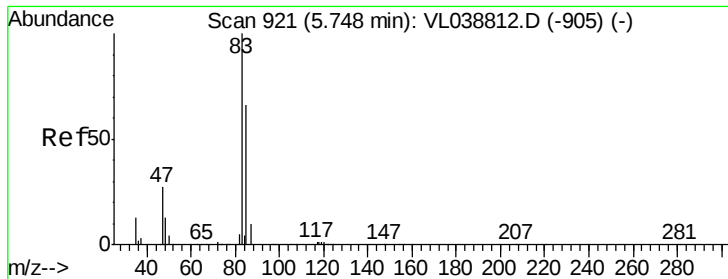
Tot Ion:	43	Resp:	139913
Ion	Ratio	Lower	Upper
43	100		
45	1.5	8.4	12.6#
61	0.0	7.9	11.9#
70	2.0	5.6	8.4#



#26
Hexane
Concen: 1.573 ppbv
RT: 5.68 min Scan# 901
Delta R.T.: -0.00 min
Lab File: VL038896.D
Acq: 12 Apr 2022 17:49

Tgt Ion:	57	Resp:	198208
Ion	Ratio	Lower	Upper
57	100		
41	91.7	72.0	108.0
43	75.3	186.6	280.0#
56	54.1	42.8	64.2





#29

Chloroform

Concen: 0.521 ppbv

RT: 5.75 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

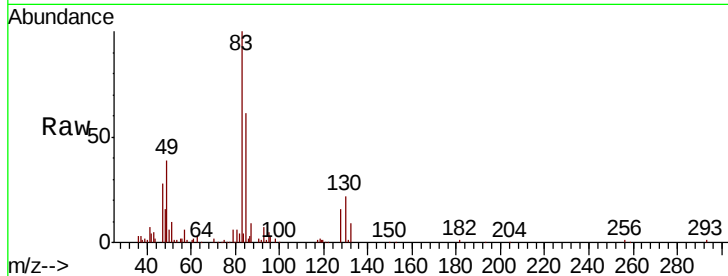
Acq: 12 Apr 2022 17:49 SVE-EFFLUENT

Tot Ion: 83 Resp: 91886

Ion Ratio Lower Upper

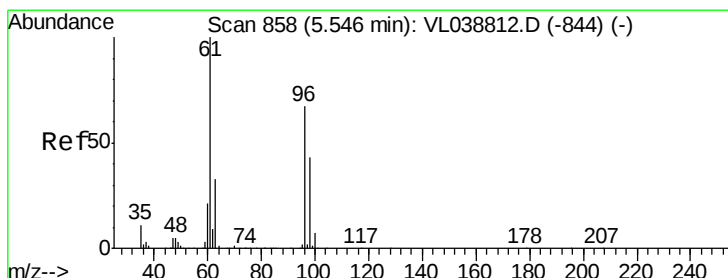
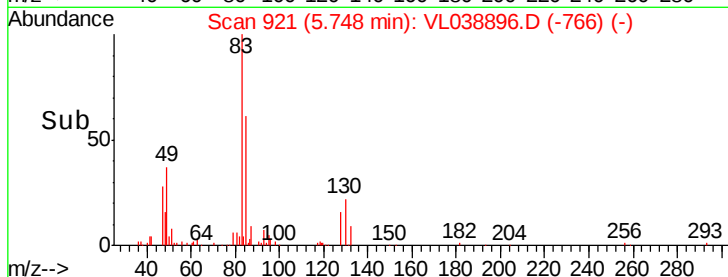
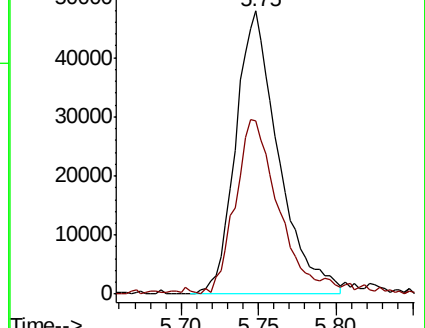
83 100

85 60.3 52.5 78.7



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0



#31

cis-1,2-Dichloroethene

Concen: 4.980 ppbv

RT: 5.55 min Scan# 858

Delta R.T. -0.00 min

Lab File: VL038896.D

Acq: 12 Apr 2022 17:49

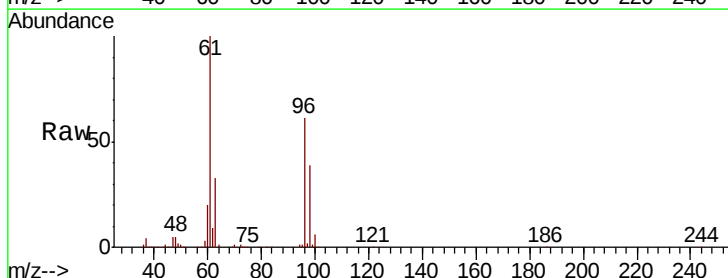
Tgt Ion: 61 Resp: 576934

Ion Ratio Lower Upper

61 100

96 60.4 53.4 80.0

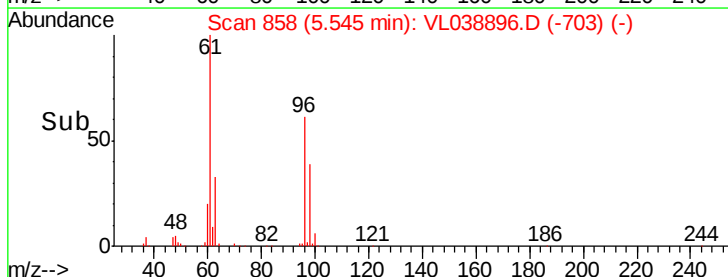
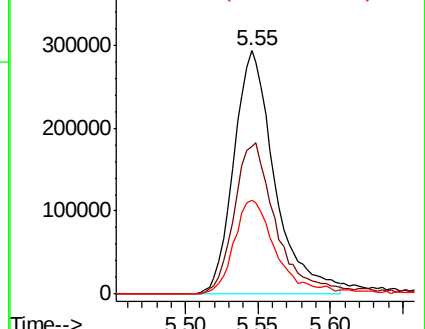
98 38.6 34.2 51.4

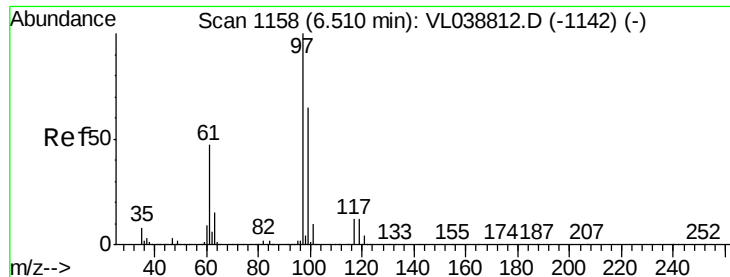


Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0





#32

1,1,1-Trichloroethane

Concen: 0.920 ppbv

RT: 6.51 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 17:49 SVE-EFFLUENT

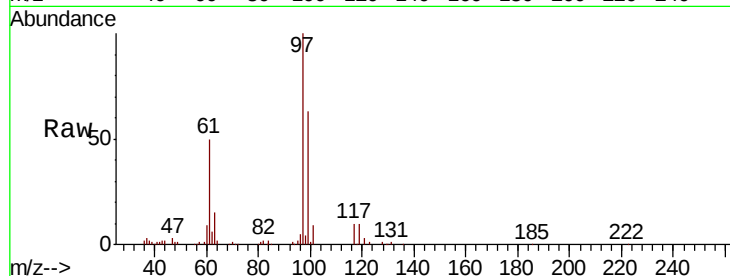
Tot Ion: 97 Resp: 163437

Ion Ratio Lower Upper

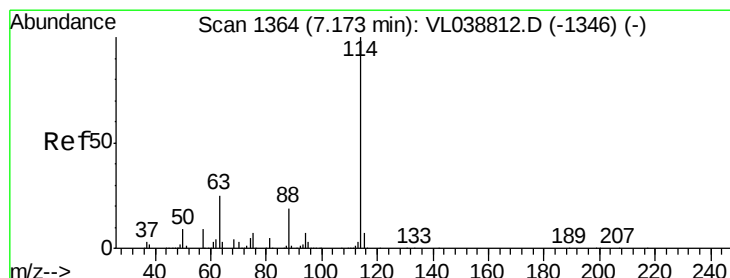
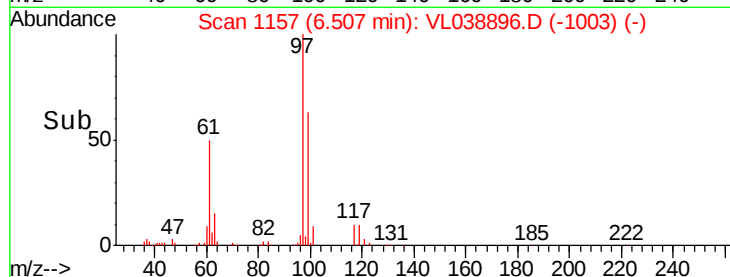
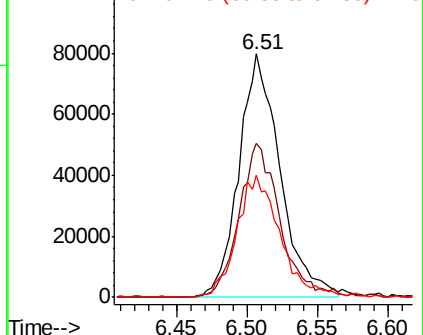
97 100

99 63.9 52.4 78.6

61 53.2 38.6 57.8



Abundance Ion 97.00 (96.70 to 97.70): VL0
Ion 99.00 (98.70 to 99.70): VL0
Ion 61.10 (60.80 to 61.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VL038896.D

Acq: 12 Apr 2022 17:49

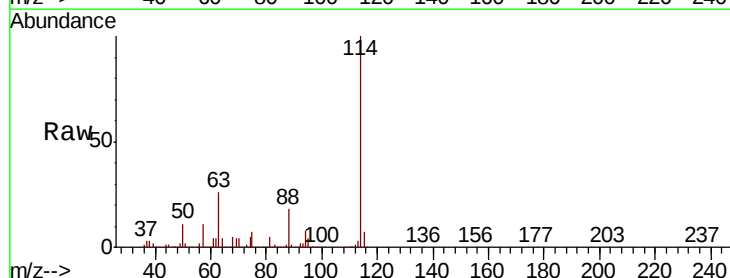
Tgt Ion: 114 Resp: 2663691

Ion Ratio Lower Upper

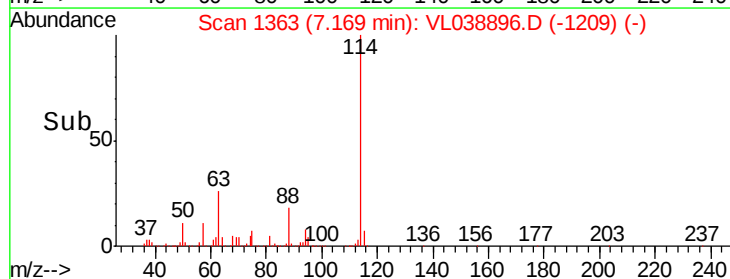
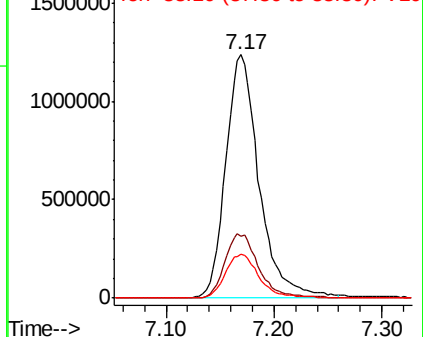
114 100

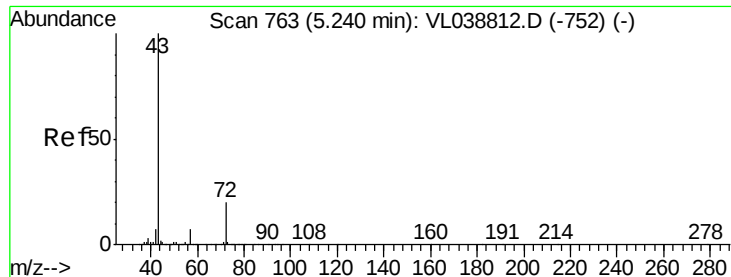
63 27.3 19.8 29.8

88 18.7 14.2 21.4



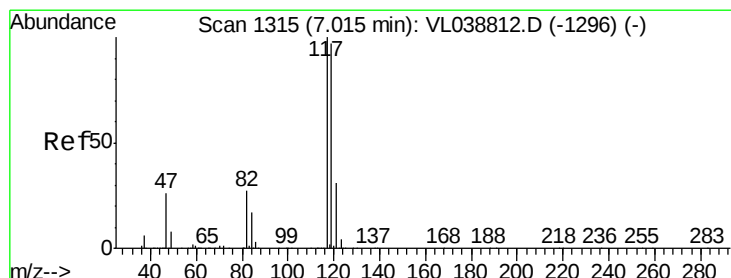
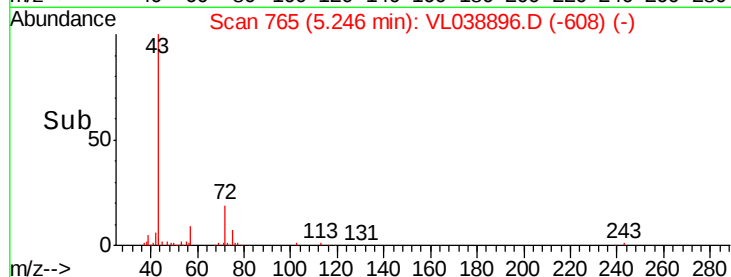
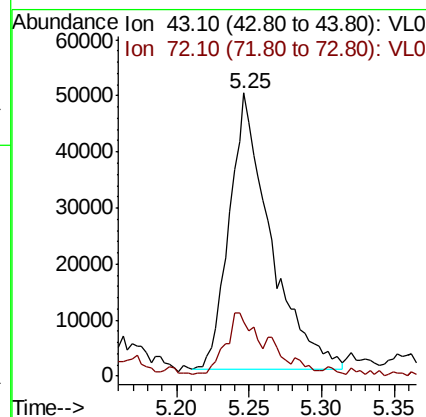
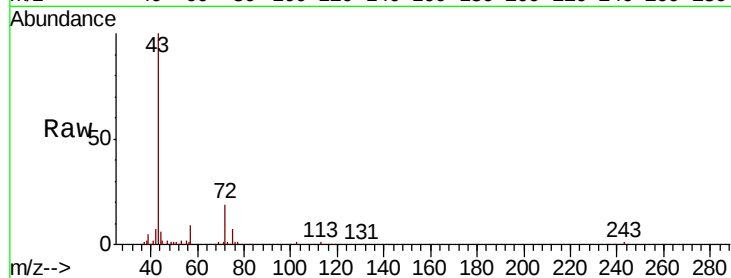
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





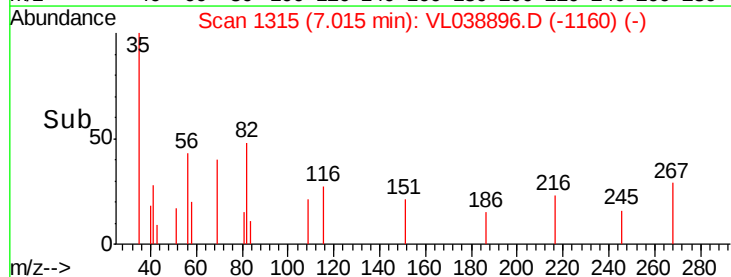
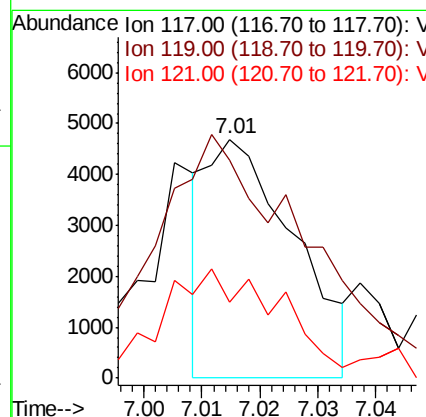
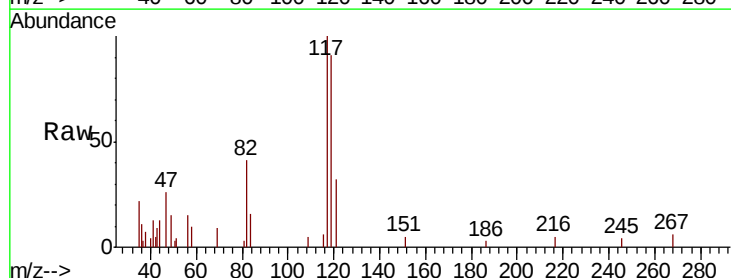
#34
2-Butanone
Concen: 0.915 ppbv
RT: 5.25
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 12 Apr 2022 17:49

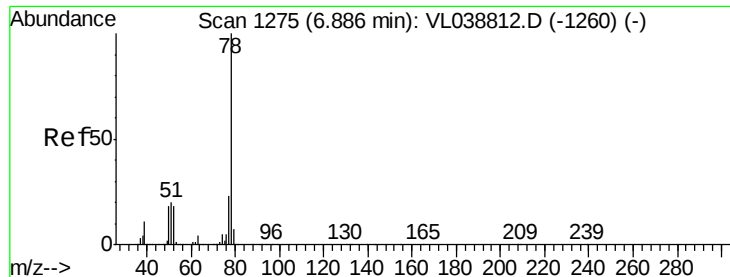
Tot Ion: 43 Resp: 96274
Ion Ratio Lower Upper
43 100
72 27.0 16.9 25.3#



#35
Carbon Tetrachloride
Concen: 0.031 ppbv
RT: 7.01 min Scan# 1315
Delta R.T. -0.00 min
Lab File: VL038896.D
Acq: 12 Apr 2022 17:49

Tgt Ion: 117 Resp: 4879
Ion Ratio Lower Upper
117 100
119 72.7 77.7 116.5#
121 39.4 24.5 36.7#





#36

Benzene

Concen: 0.121 ppbv

RT: 6.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 17:49 SVE-EFFLUENT

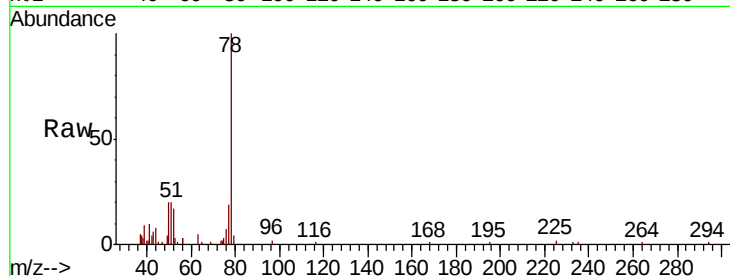
Tot Ion: 78 Resp: 29309

Ion Ratio Lower Upper

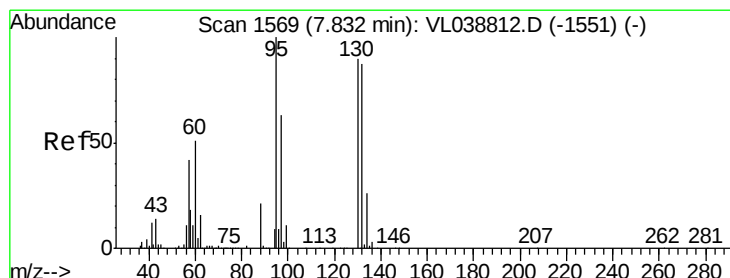
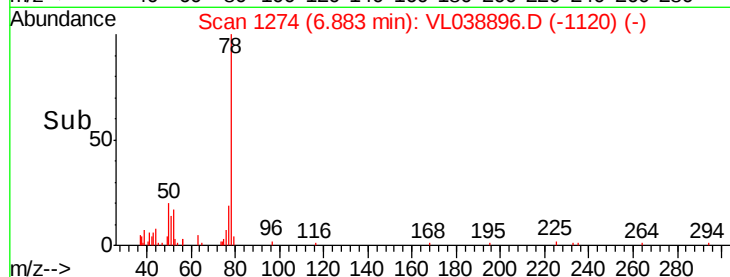
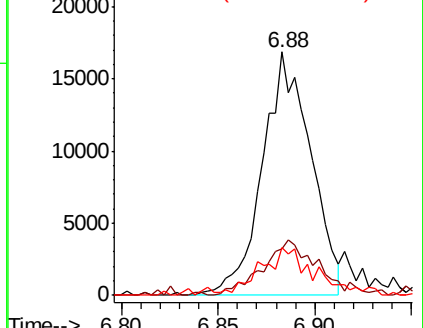
78 100

77 19.0 18.2 27.2

50 16.5 14.0 21.0



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#38

Trichloroethene

Concen: 0.148 ppbv

RT: 7.83 min Scan# 1569

Delta R.T. -0.00 min

Lab File: VL038896.D

Acq: 12 Apr 2022 17:49

Tgt Ion: 130 Resp: 14672

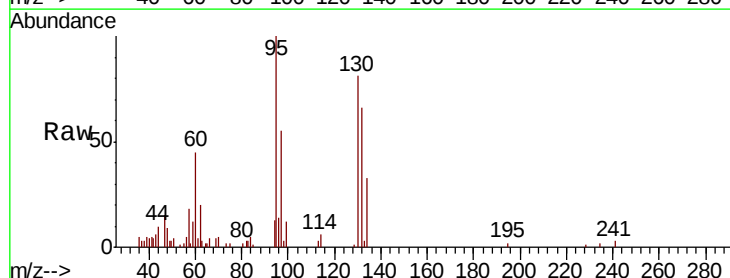
Ion Ratio Lower Upper

130 100

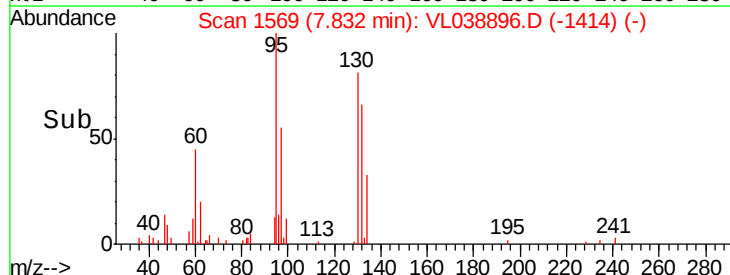
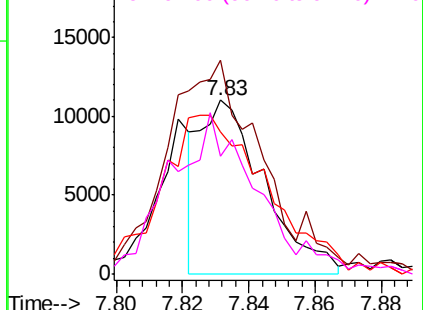
95 118.8 89.4 134.0

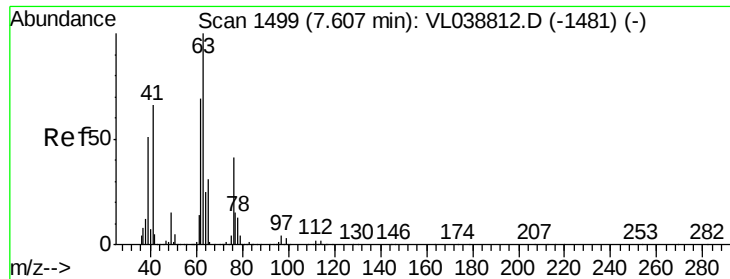
132 74.0 77.7 116.5#

97 62.5 56.0 84.0



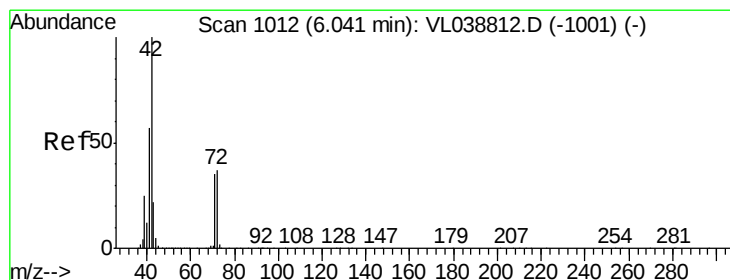
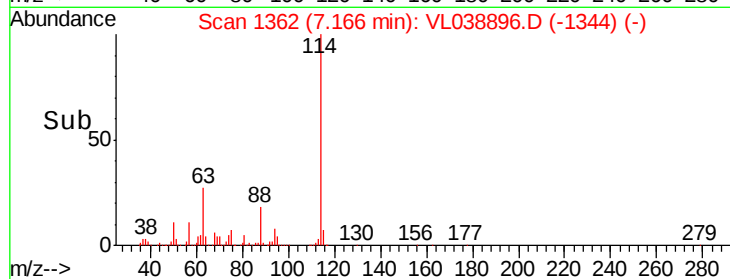
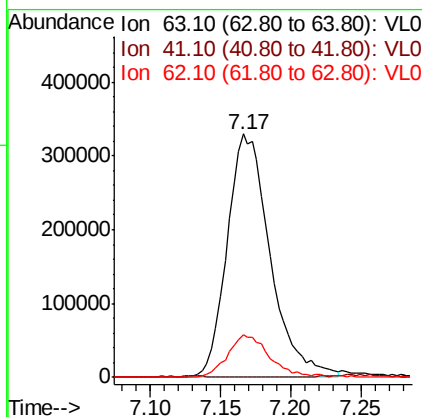
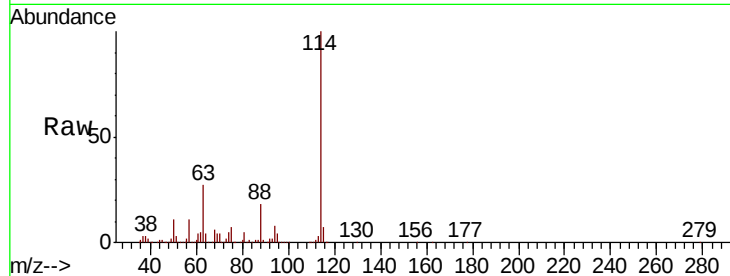
Abundance Ion 130.00 (129.70 to 130.70): V
Ion 95.00 (94.70 to 95.70): VL0
Ion 132.00 (131.70 to 132.70): V
Ion 97.00 (96.70 to 97.70): VL0





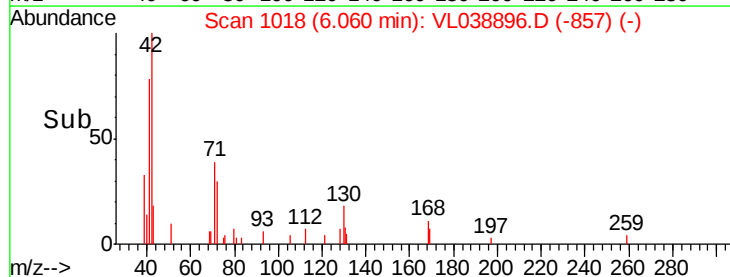
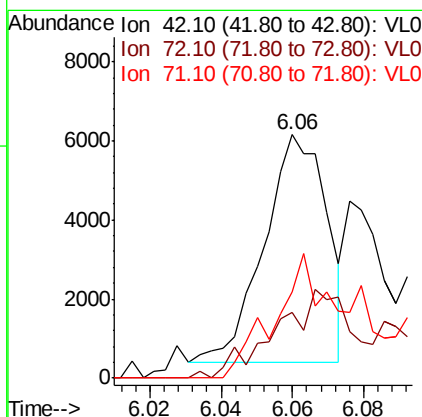
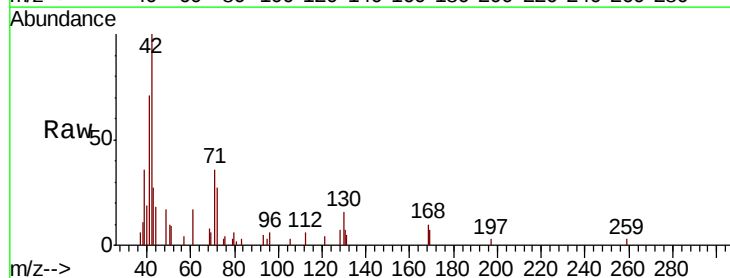
#39
 1,2-Dichloropropane
 Concen: 7.575 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVE-EFFLUENT
 Acq: 12 Apr 2022 17:49

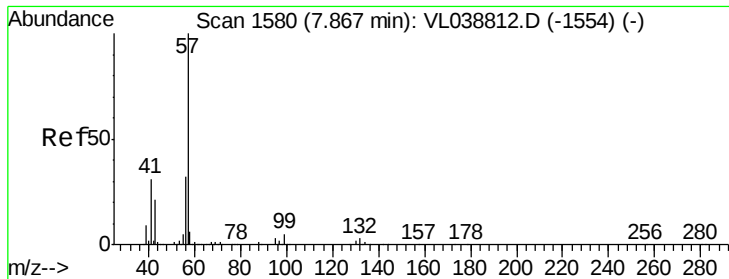
Tot Ion	Ratio	Lower	Upper
63	100		
41	0.0	53.0	79.6#
62	17.5	55.0	82.4#



#41
 Tetrahydrofuran
 Concen: 0.070 ppbv
 RT: 6.06 min Scan# 1018
 Delta R.T. 0.02 min
 Lab File: VL038896.D
 Acq: 12 Apr 2022 17:49

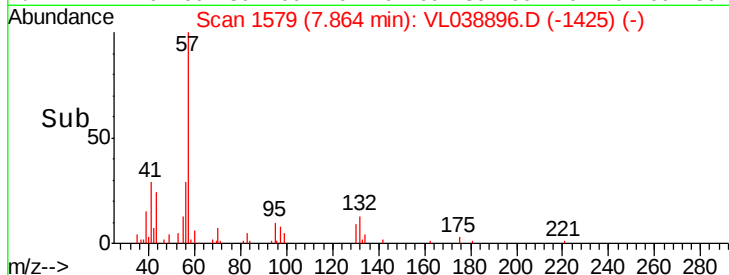
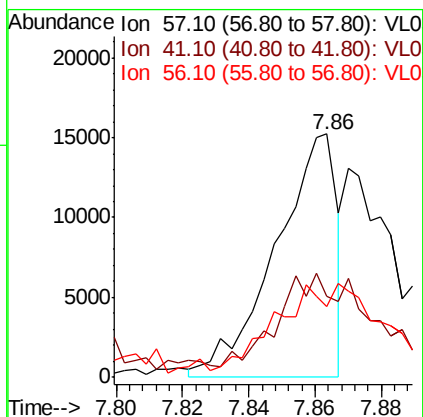
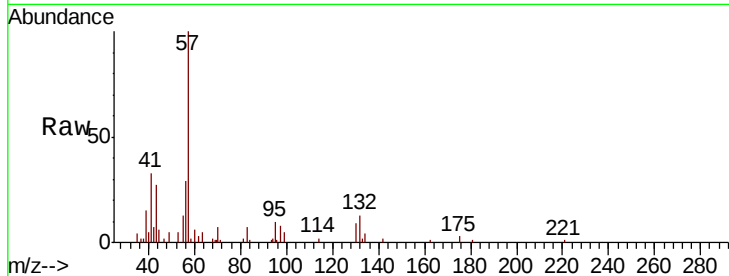
Tgt Ion	Ratio	Lower	Upper
42	100		
72	76.0	31.4	47.0#
71	85.9	30.2	45.4#





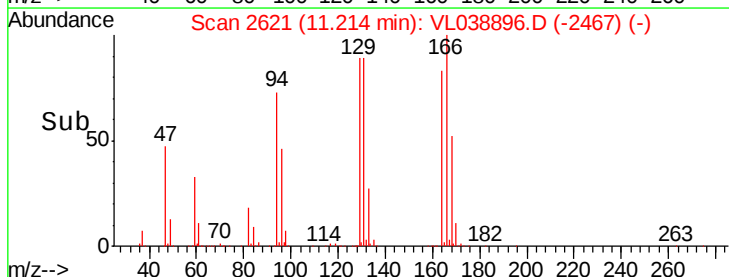
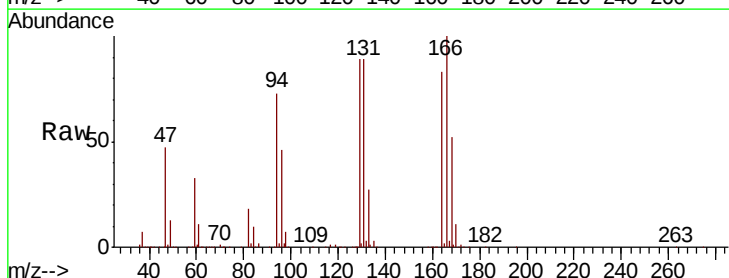
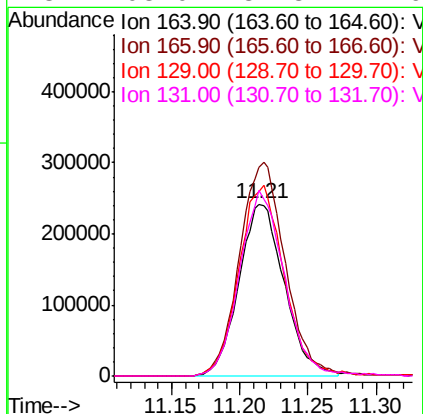
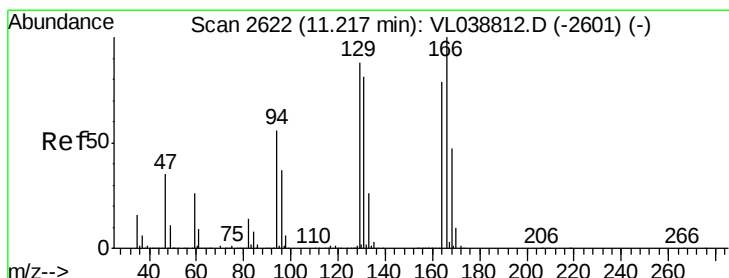
#44
2,2,4-Trimethylpentane
Concen: 0.048 ppbv
RT: 7.86
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 12 Apr 2022 17:49

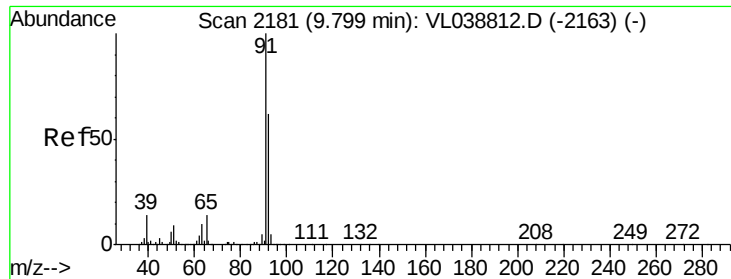
Tot Ion	57	Resp	19500
Ion Ratio	Lower	Upper	
57	100		
41	74.3	25.0	37.4#
56	0.0	25.3	37.9#



#52
Tetrachloroethene
Concen: 6.549 ppbv
RT: 11.21 min Scan# 2621
Delta R.T. -0.00 min
Lab File: VL038896.D
Acq: 12 Apr 2022 17:49

Tgt Ion	164	Resp	554305
Ion Ratio	Lower	Upper	
164	100		
166	121.1	101.0	151.6
129	107.5	88.7	133.1
131	108.0	81.8	122.6





#53

Toluene

Concen: 0.414 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

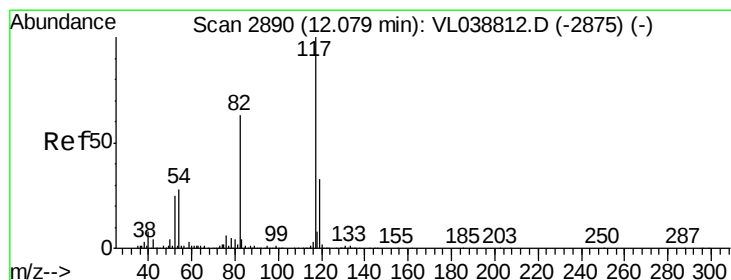
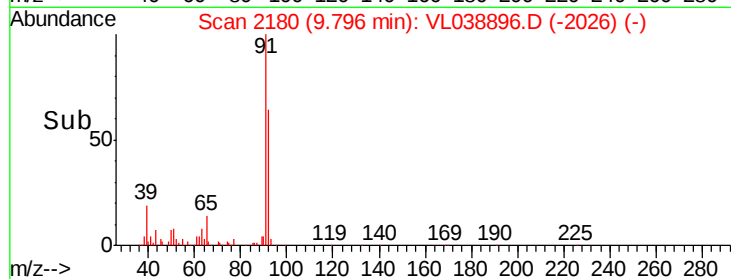
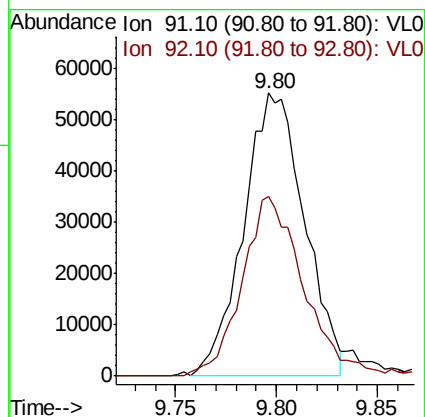
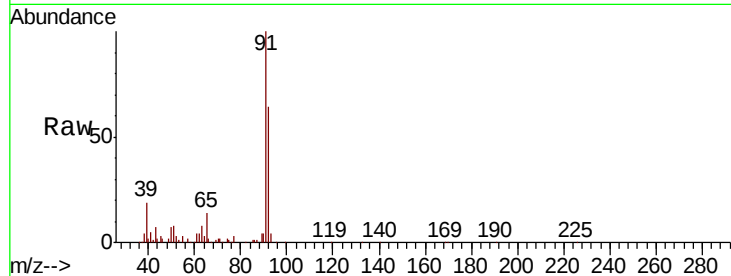
Acq: 12 Apr 2022 17:49 SVE-EFFLUENT

Tot Ion: 91 Resp: 115818

Ion Ratio Lower Upper

91 100

92 65.7 49.2 73.8



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2889

Delta R.T. -0.00 min

Lab File: VL038896.D

Acq: 12 Apr 2022 17:49

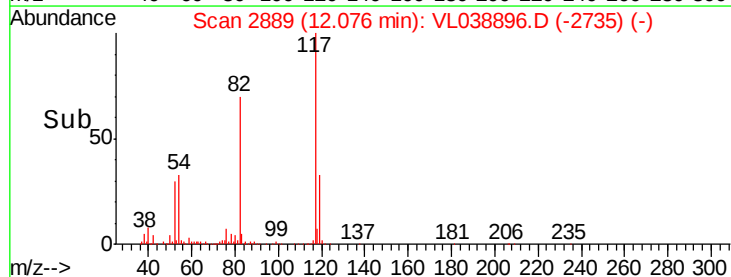
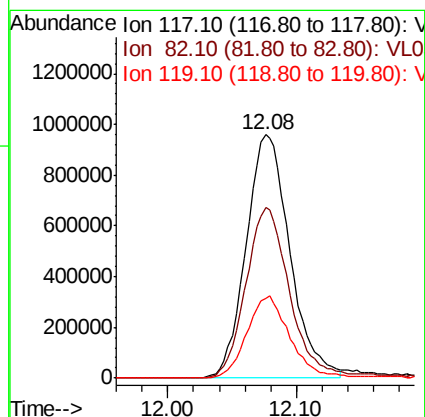
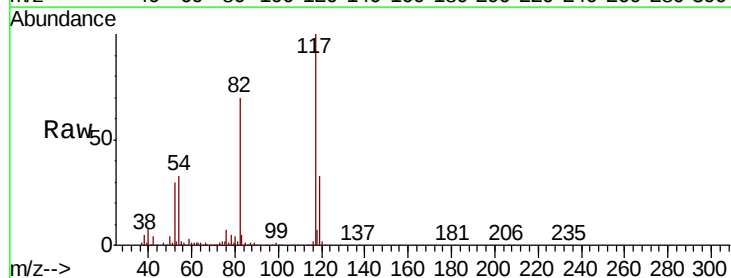
Tgt Ion: 117 Resp: 2266595

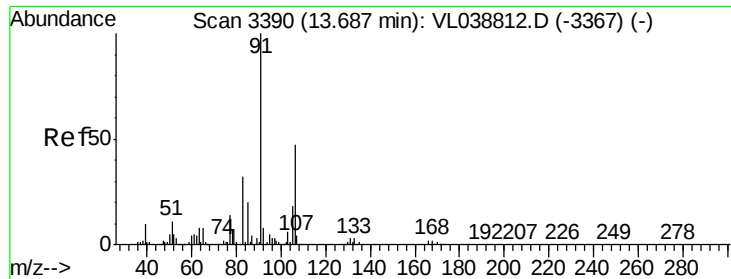
Ion Ratio Lower Upper

117 100

82 72.0 53.0 79.6

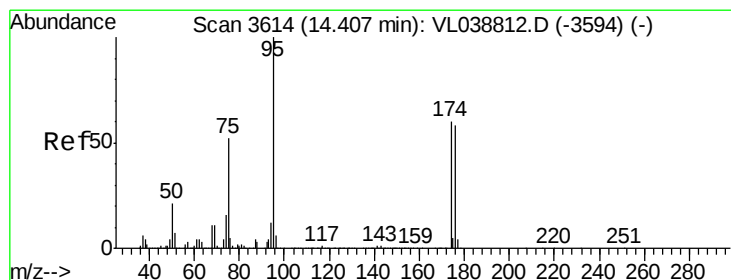
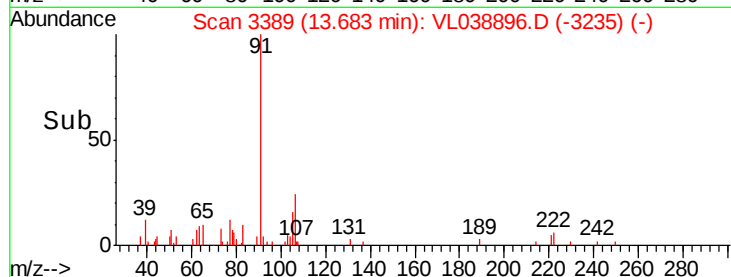
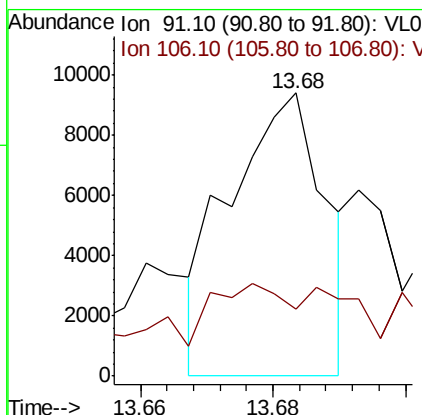
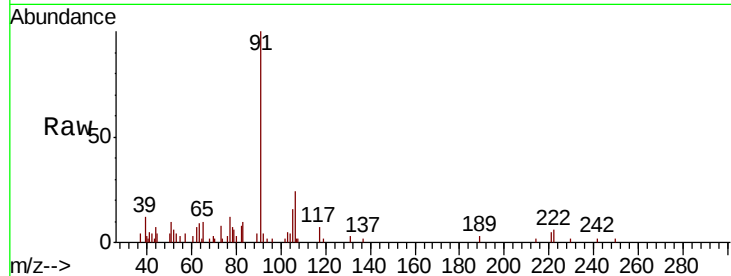
119 34.1 24.9 37.3





#60
o-Xylene
Concen: 0.035 ppbv
RT: 13.68 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
SVE-EFFLUENT
Acq: 12 Apr 2022 17:49

Tot Ion: 91 Resp: 9374
Ion Ratio Lower Upper
91 100
106 84.5 23.8 71.4#



#68
1-Bromo-4-Fluorobenzene
Concen: 10.358 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. -0.00 min
Lab File: VL038896.D
Acq: 12 Apr 2022 17:49

Tgt Ion: 95 Resp: 1780793
Ion Ratio Lower Upper
95 100
174 64.0 52.0 78.0
175 4.6 4.0 6.0

