

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102521\
 Data File : VL037898.D
 Acq On : 25 Oct 2021 17:43
 Operator : SY/AP
 Sample : M4339-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-EFFLUENT

Quant Time: Oct 25 23:51:34 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL100421AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 04 17:43:54 2021
 QLast Update : Mon Oct 04 17:43:54 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1308822	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	3738768	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	3089745	10.00	ppbv	0.00

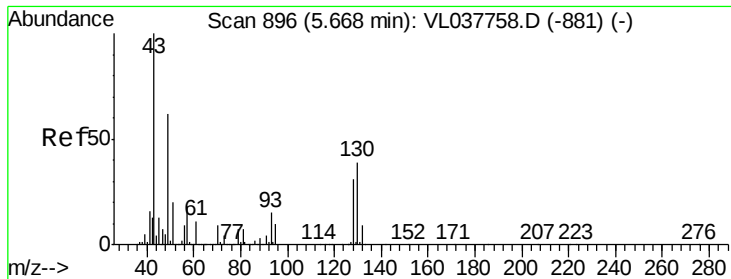
System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2272006	10.52	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	105.20%

Target Compounds					Qvalue	
3) Chlorodifluoromethane	2.99	51	111640	0.444	ppbv	# 77
4) Chloromethane	3.15	50	5054	0.055	ppbv	96
9) Propene	3.03	41	24733	0.267	ppbv	94
10) Heptane	8.14	43	27038	0.129	ppbv	# 19
11) Trichlorofluoromethane	3.97	101	70694	0.379	ppbv	87
12) 1,1,2-Trichlorotrifluoroet	4.49	101	2954	0.021	ppbv	# 1
13) Ethanol	3.63	45	73892	9.765	ppbv	# 55
15) Acetone	3.87	43	236182	2.010	ppbv	# 71
19) Isopropyl Alcohol	3.99	45	94695	1.295	ppbv	# 65
20) Methylene Chloride	4.36	84	250045	4.212	ppbv	95
22) trans-1,2-Dichloroethene	4.90	96	5615	0.087	ppbv	# 36
23) Vinyl Acetate	5.07	43	7036	0.040	ppbv	# 1
25) Ethyl Acetate	5.70	43	167212	0.507	ppbv	# 81
26) Hexane	5.70	57	201150	1.239	ppbv	# 45
29) Chloroform	5.76	83	83217	0.359	ppbv	87
31) cis-1,2-Dichloroethene	5.56	61	587169	3.984	ppbv	96
32) 1,1,1-Trichloroethane	6.52	97	143778	0.654	ppbv	94
34) 2-Butanone	5.27	43	35051	0.232	ppbv	# 75
36) Benzene	6.91	78	10880	0.034	ppbv	# 55
39) 1,2-Dichloropropane	7.19	63	872609	7.265	ppbv	# 28
44) 2,2,4-Trimethylpentane	7.89	57	61248	0.114	ppbv	# 66
52) Tetrachloroethene	11.24	164	18834	0.152	ppbv	92
53) Toluene	9.82	91	812361	2.295	ppbv	99
58) Ethyl Benzene	12.73	91	34736	0.084	ppbv	97
60) o-Xylene	13.71	91	11930	0.035	ppbv	# 30

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

Data Path : Z:\V0ASRV\HPCHEM1\MSV0A_L\DATA\VL102521\
Data File : VL037898.D
Acq On : 25 Oct 2021 17:43
Operator : SY/AP
Sample : M4339-02
Misc : 400mL/MSV0A_L
ALS Vial : 1 Sample Multiplier: 1



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 25 Oct 2021 17:43 SVE-EFFLUENT

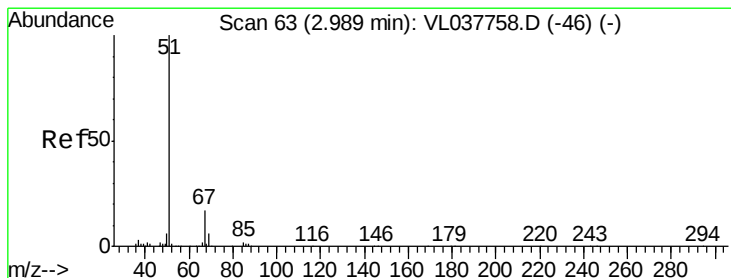
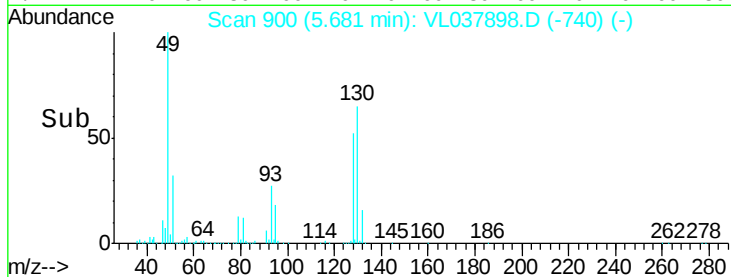
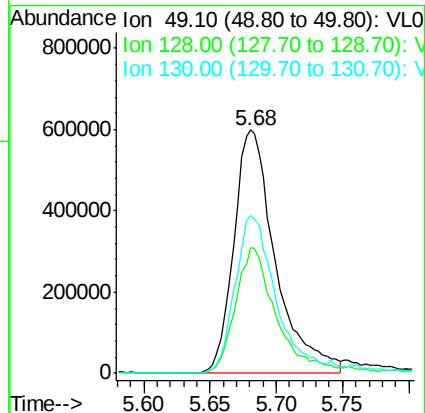
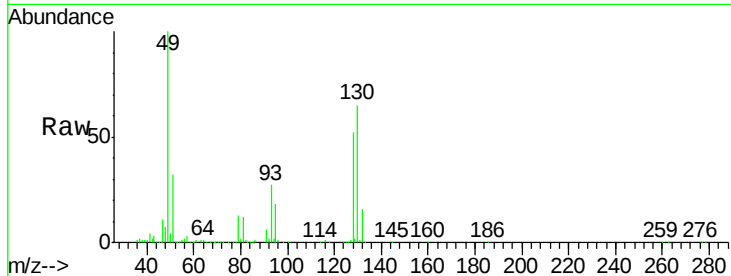
Tgt Ion: 49 Resp: 1308822

Ion Ratio Lower Upper

49 100

128 53.6 27.1 81.3

130 69.3 33.2 99.6



#3

Chlorodifluoromethane

Concen: 0.444 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL037898.D

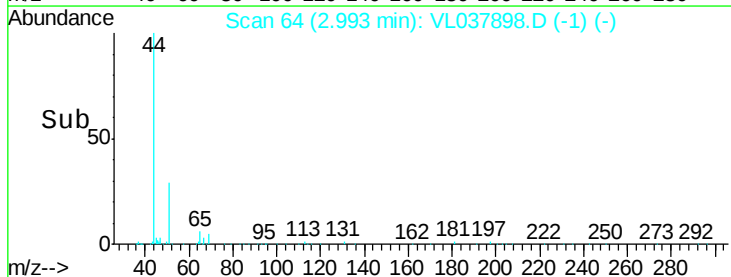
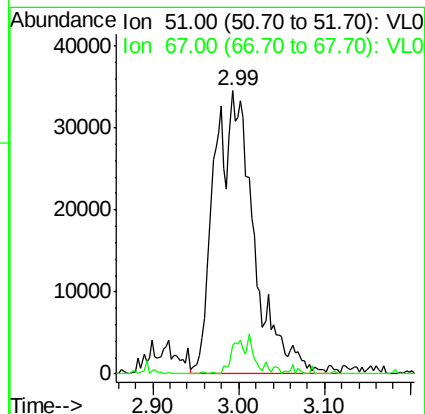
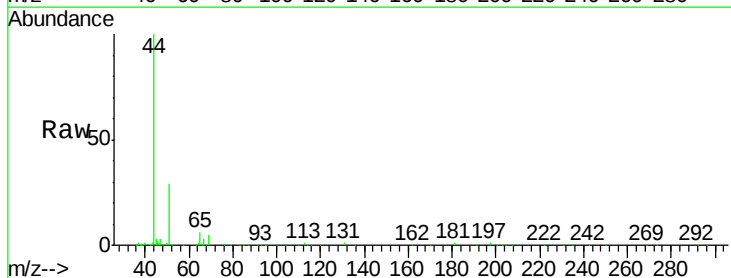
Acq: 25 Oct 2021 17:43

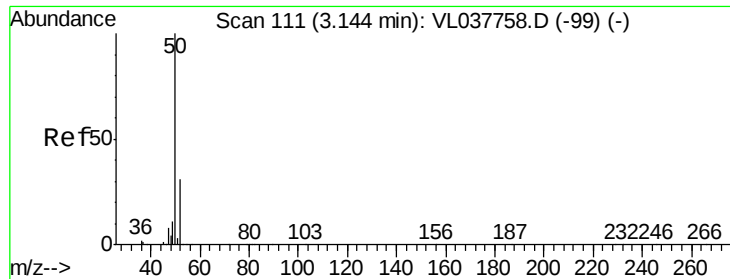
Tgt Ion: 51 Resp: 111640

Ion Ratio Lower Upper

51 100

67 7.0 13.5 20.3#





#4

Chloromethane

Concen: 0.055 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

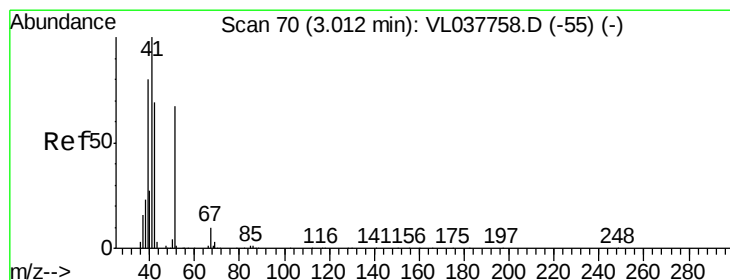
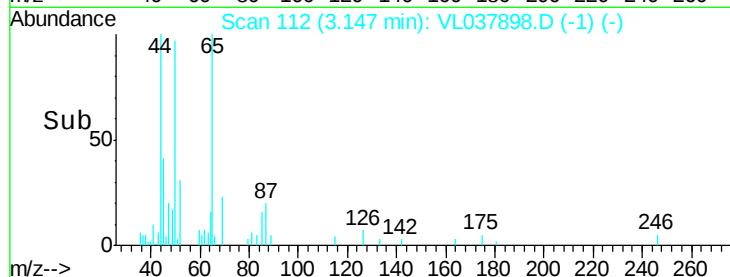
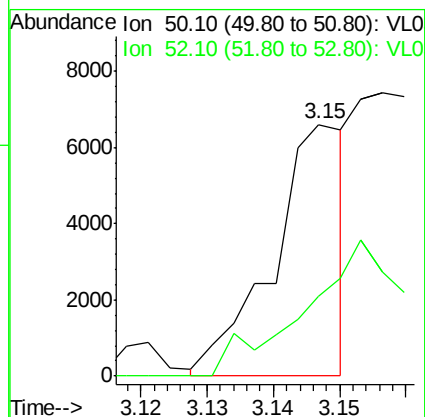
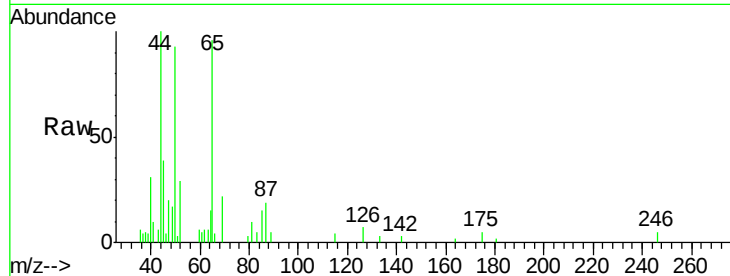
Acq: 25 Oct 2021 17:43 SVE-EFFLUENT

Tgt Ion: 50 Resp: 5054

Ion Ratio Lower Upper

50 100

52 32.6 24.4 36.6



#9

Propene

Concen: 0.267 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.02 min

Lab File: VL037898.D

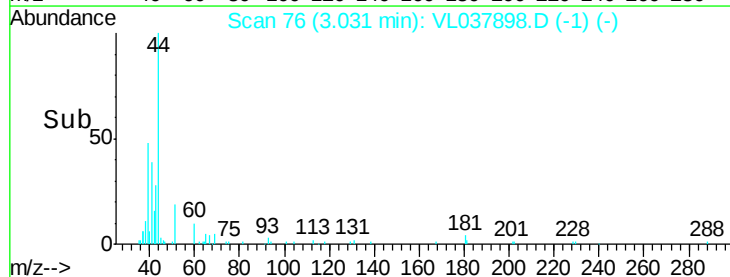
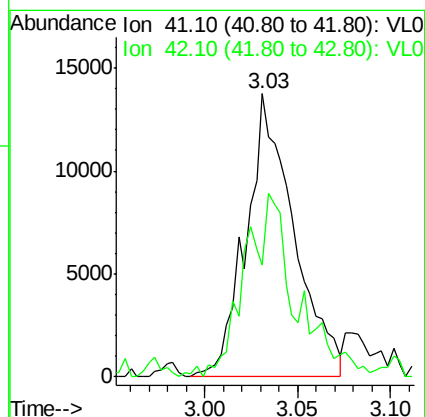
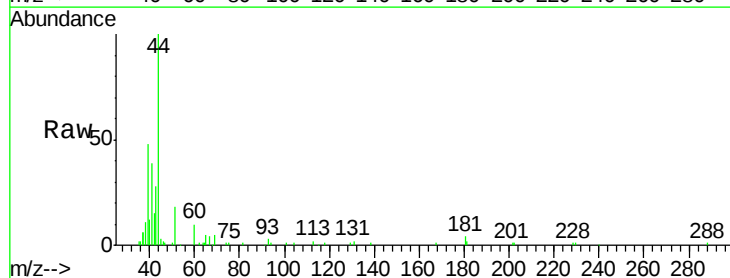
Acq: 25 Oct 2021 17:43

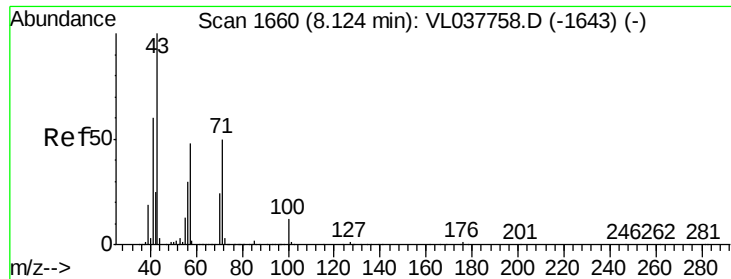
Tgt Ion: 41 Resp: 24733

Ion Ratio Lower Upper

41 100

42 72.6 54.2 81.2





#10

Heptane

Concen: 0.129 ppbv

RT: 8.14 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

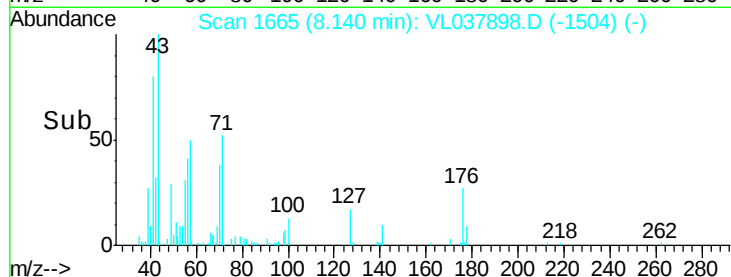
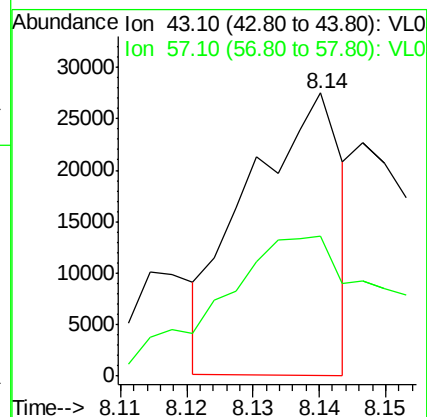
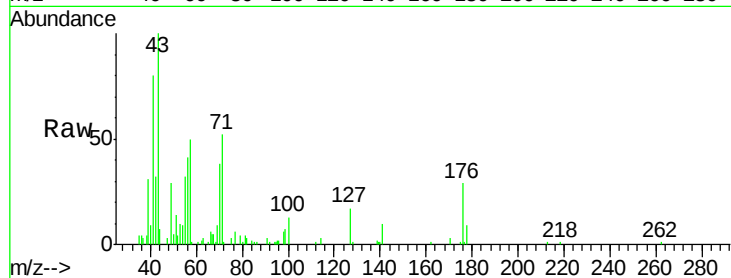
Acq: 25 Oct 2021 17:43 SVE-EFFLUENT

Tgt Ion: 43 Resp: 27038

Ion Ratio Lower Upper

43 100

57 105.8 40.0 60.0#



#11

Trichlorofluoromethane

Concen: 0.379 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.02 min

Lab File: VL037898.D

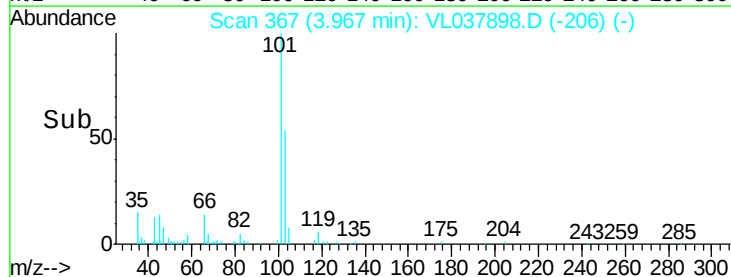
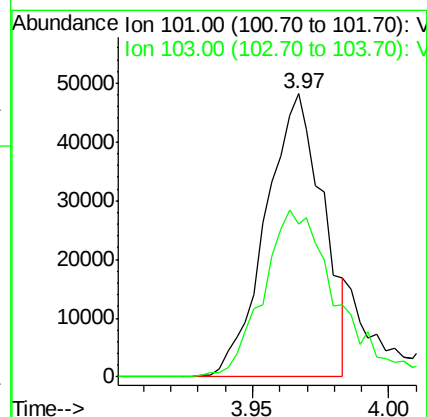
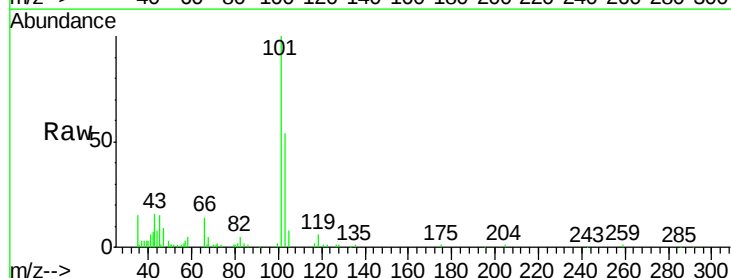
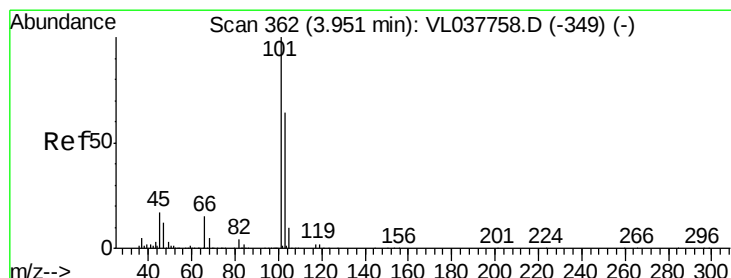
Acq: 25 Oct 2021 17:43

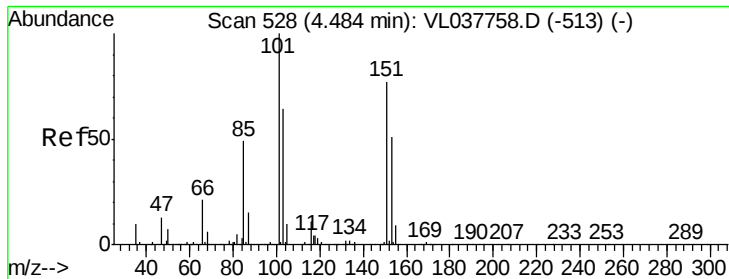
Tgt Ion: 101 Resp: 70694

Ion Ratio Lower Upper

101 100

103 54.0 51.5 77.3





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.021 ppbv

RT: 4.49 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

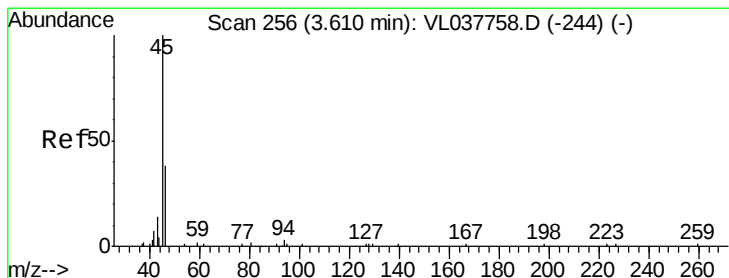
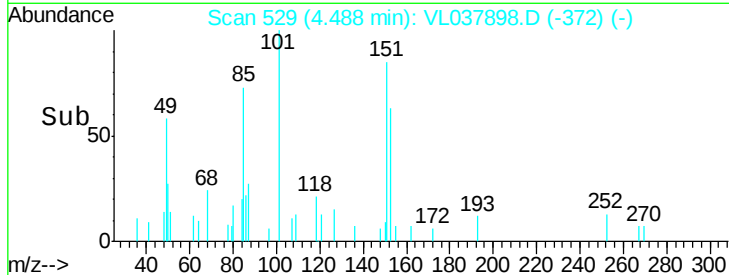
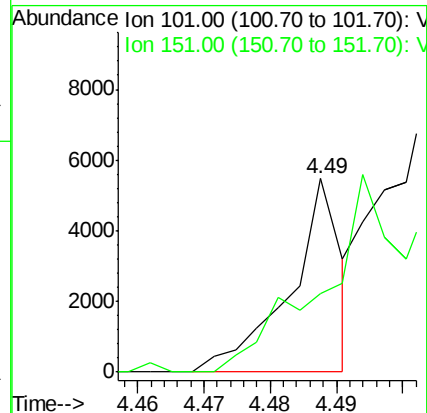
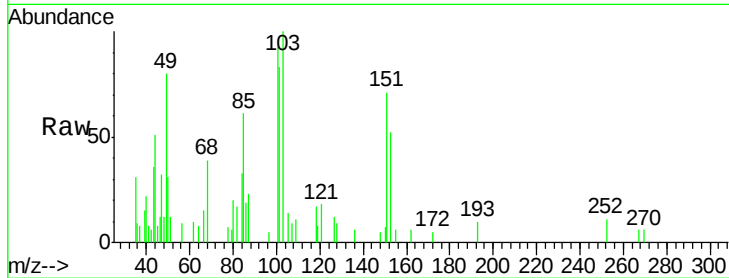
Acq: 25 Oct 2021 17:43 SVE-EFFLUENT

Tgt Ion:101 Resp: 2954

Ion Ratio Lower Upper

101 100

151 315.6 62.9 94.3#



#13

Ethanol

Concen: 9.765 ppbv

RT: 3.63 min Scan# 261

Delta R.T. 0.02 min

Lab File: VL037898.D

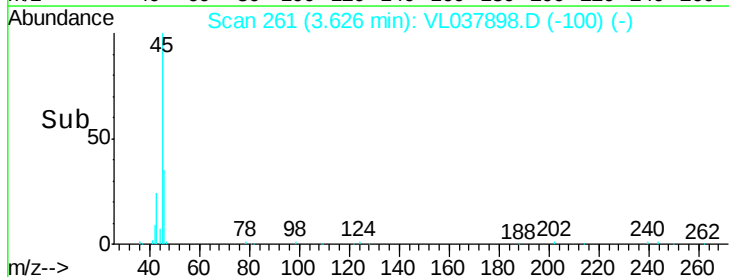
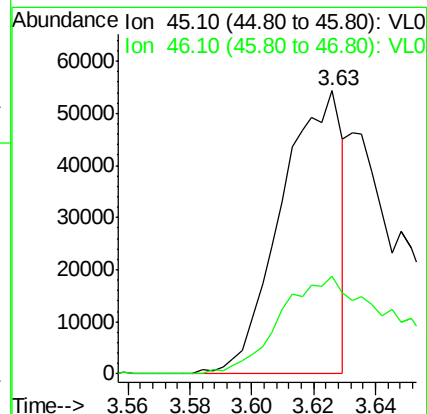
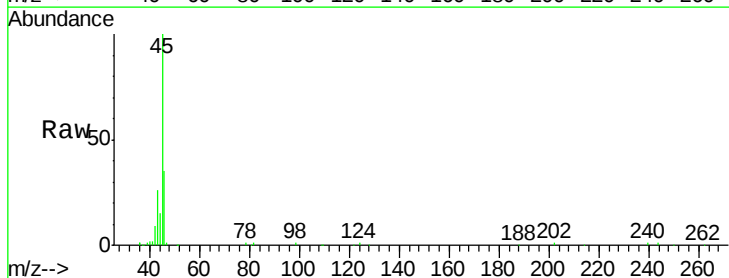
Acq: 25 Oct 2021 17:43

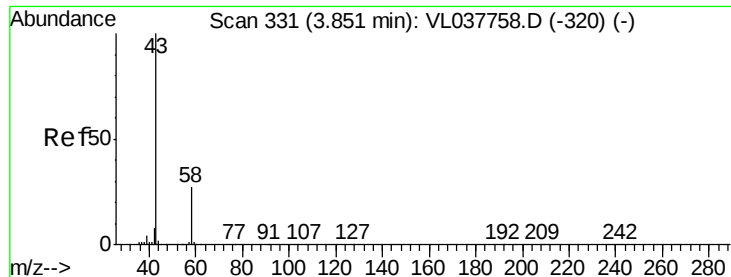
Tgt Ion: 45 Resp: 73892

Ion Ratio Lower Upper

45 100

46 81.6 20.2 81.0#





#15

Acetone

Concen: 2.010 ppbv

RT: 3.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

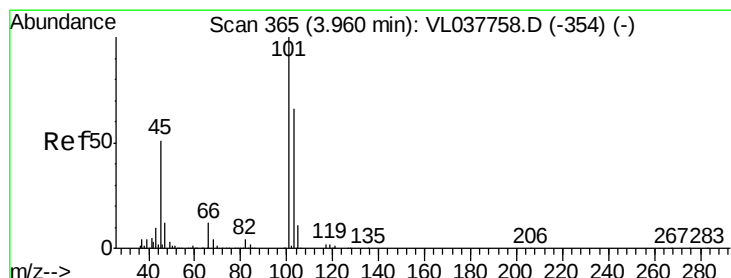
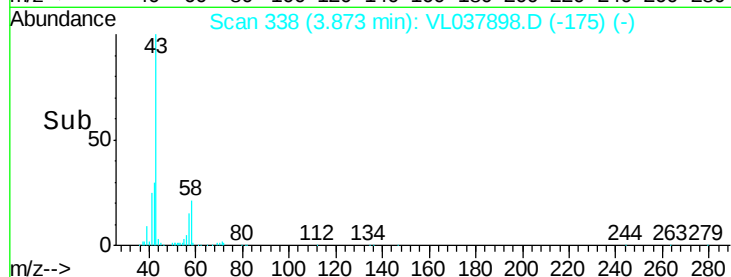
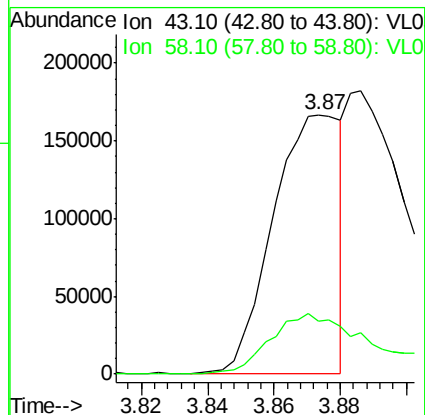
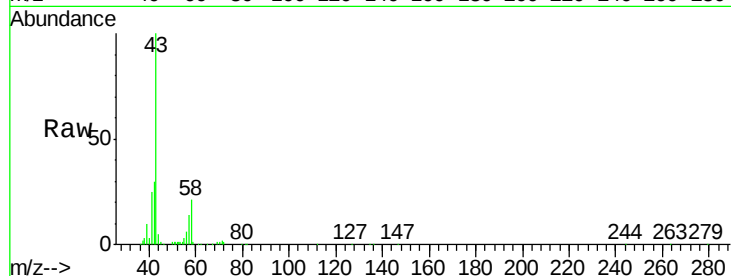
Acq: 25 Oct 2021 17:43 SVE-EFFLUENT

Tgt Ion: 43 Resp: 236182

Ion Ratio Lower Upper

43 100

58 44.2 23.0 34.6#



#19

Isopropyl Alcohol

Concen: 1.295 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.03 min

Lab File: VL037898.D

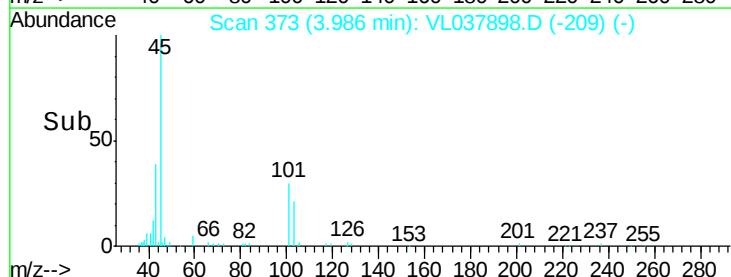
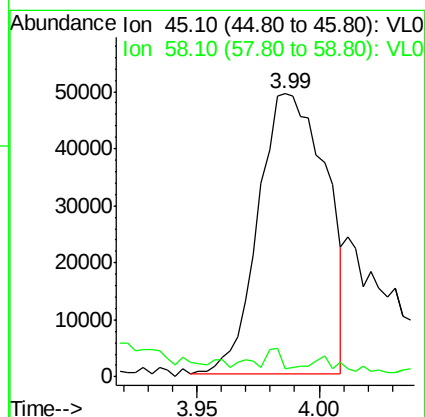
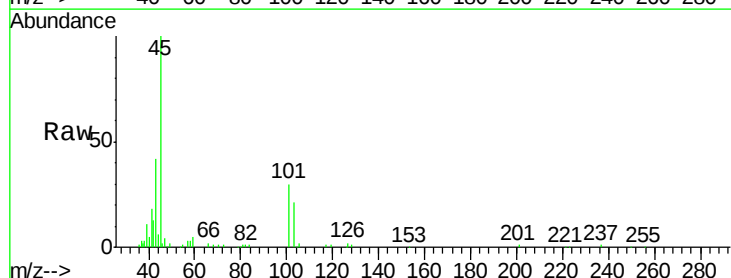
Acq: 25 Oct 2021 17:43

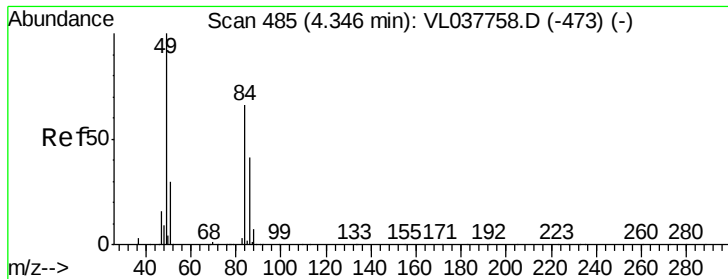
Tgt Ion: 45 Resp: 94695

Ion Ratio Lower Upper

45 100

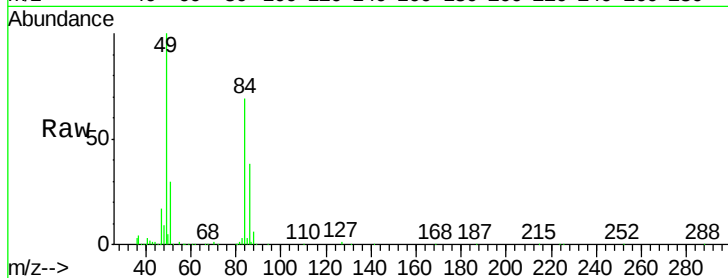
58 15.1 1.1 1.7#





#20
Methylene Chloride
Concen: 4.212 ppbv
RT: 4.36
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Oct 2021 17:43

Tgt Ion:	84	Resp:	250045
Ion	Ratio	Lower	Upper
84	100		
49	145.1	120.7	181.1
51	42.8	36.2	54.4
86	55.1	49.6	74.4



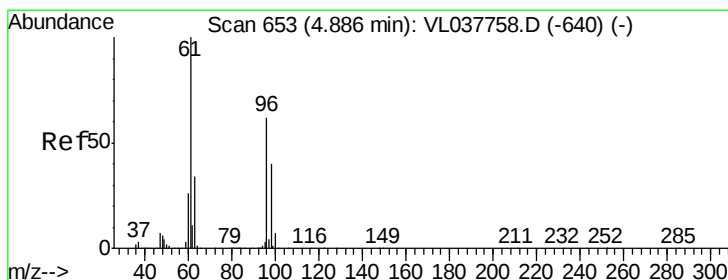
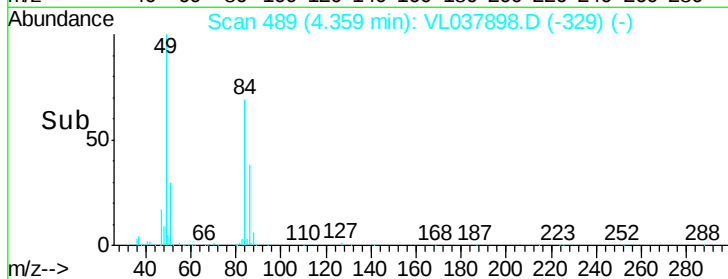
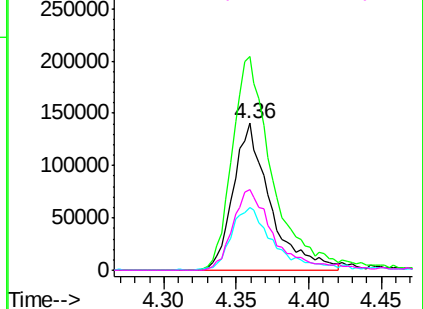
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

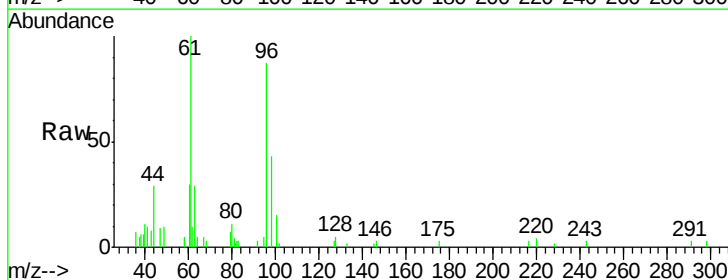
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#22
trans-1,2-Dichloroethene
Concen: 0.087 ppbv
RT: 4.90 min Scan# 658
Delta R.T. 0.02 min
Lab File: VL037898.D
Acq: 25 Oct 2021 17:43

Tgt Ion:	96	Resp:	5615
Ion	Ratio	Lower	Upper
96	100		
61	65.3	129.0	193.6#
98	31.9	51.7	77.5#

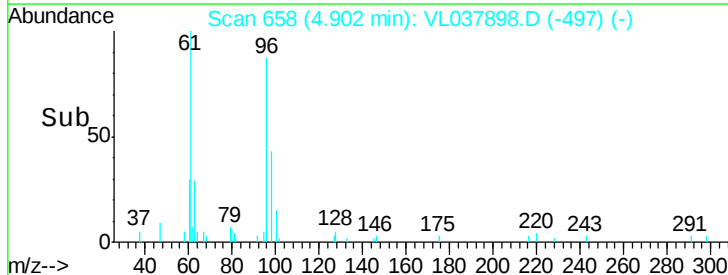
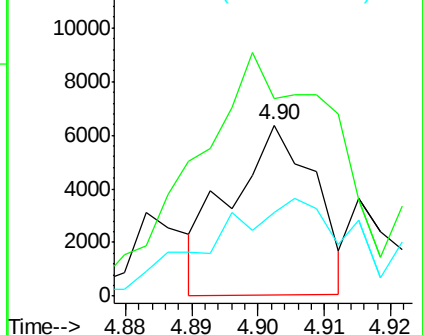


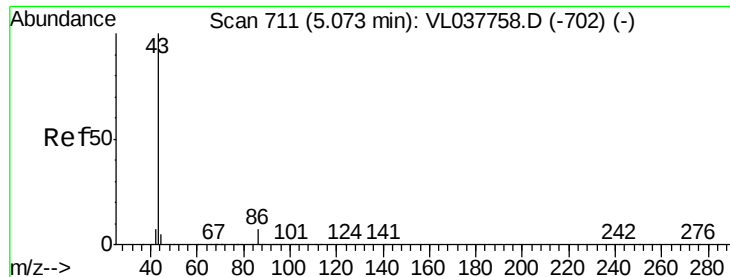
Abundance

Ion 96.00 (95.70 to 96.70): VL0

Ion 61.10 (60.80 to 61.80): VL0

Ion 98.00 (97.70 to 98.70): VL0





#23

Vinyl Acetate

Concen: 0.040 ppbv

RT: 5.07 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 25 Oct 2021 17:43 SVE-EFFLUENT

Tgt Ion: 43 Resp: 7036

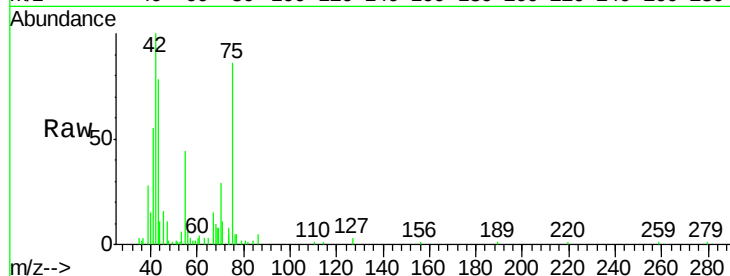
Ion Ratio Lower Upper

43 100

86 0.8 5.0 7.4#

42 216.3 7.4 11.0#

44 18.9 3.8 5.6#

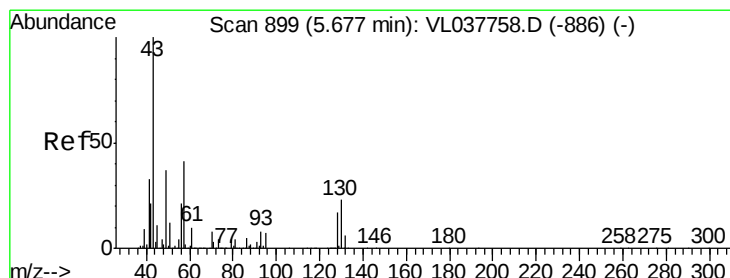
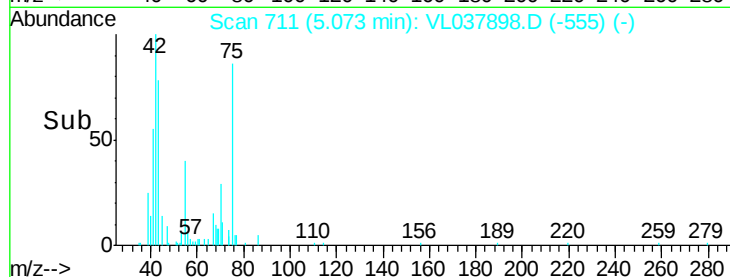
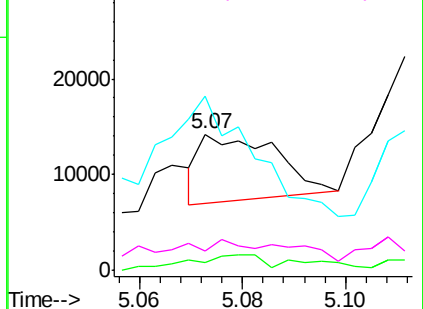


Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 0.507 ppbv

RT: 5.70 min Scan# 906

Delta R.T. 0.02 min

Lab File: VL037898.D

Acq: 25 Oct 2021 17:43

Tgt Ion: 43 Resp: 167212

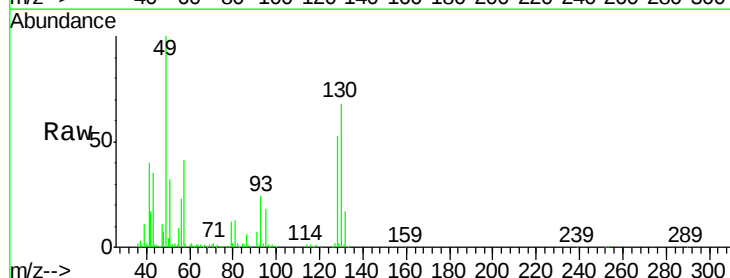
Ion Ratio Lower Upper

43 100

45 3.8 8.1 12.1#

61 0.0 7.5 11.3#

70 3.0 5.9 8.9#

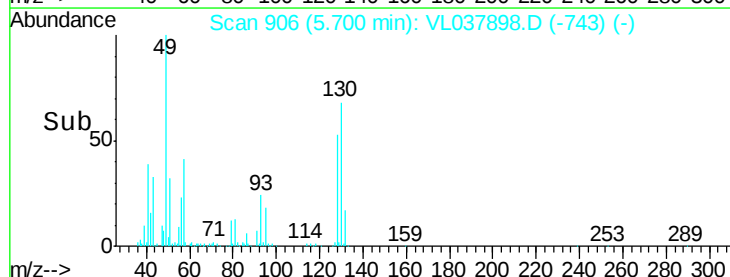
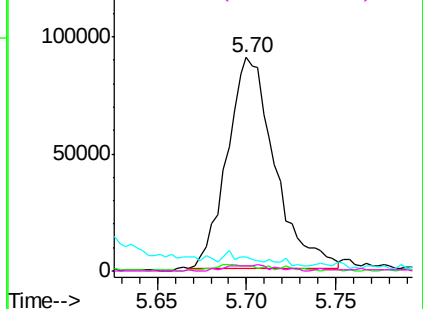


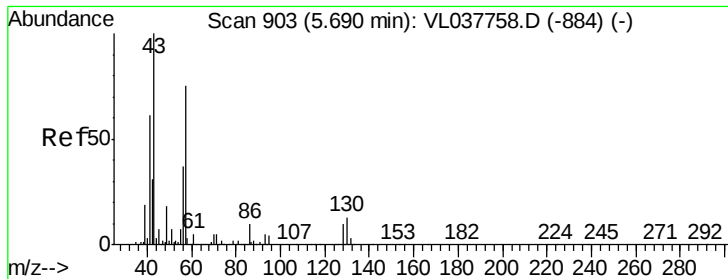
Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

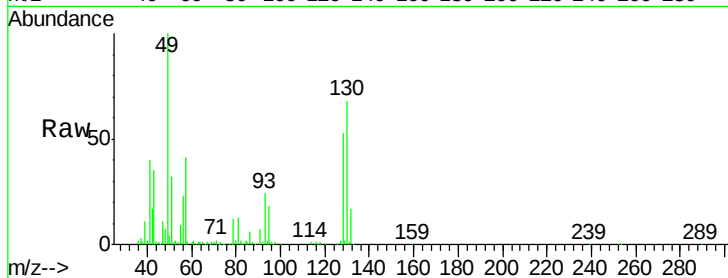
Ion 70.10 (69.80 to 70.80): VL0





#26
Hexane
Concen: 1.239 ppbv
RT: 5.70
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Oct 2021 17:43 SVE-EFFLUENT

Tgt Ion:	57	Resp:	201150
Ion	Ratio	Lower	Upper
57	100		
41	105.1	69.6	104.4#
43	89.2	171.4	257.0#
56	63.8	42.0	63.0#

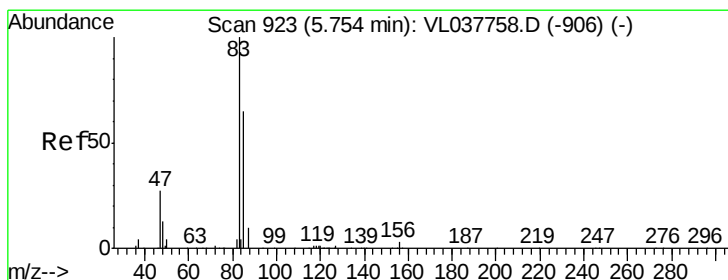
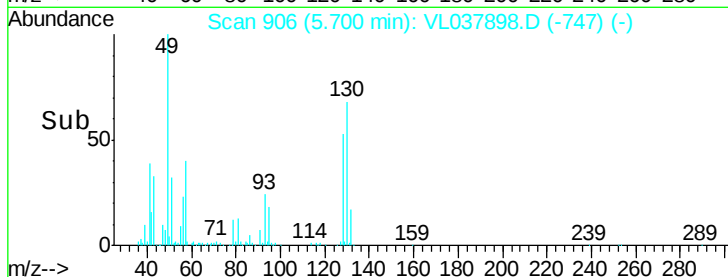
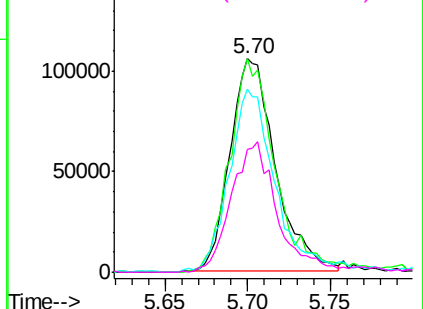


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

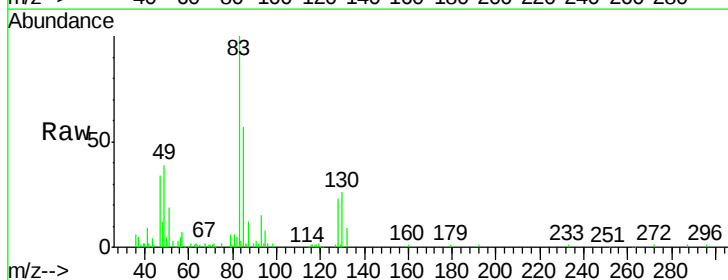
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



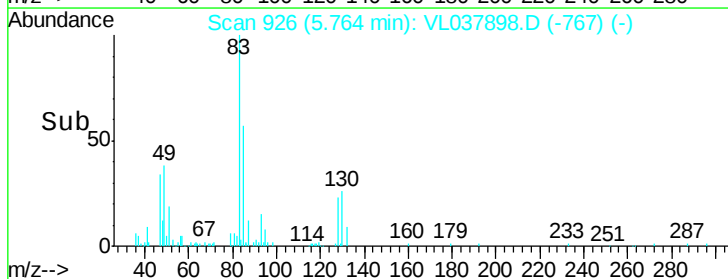
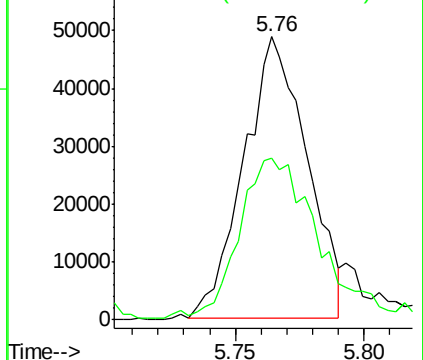
#29
Chloroform
Concen: 0.359 ppbv
RT: 5.76 min Scan# 926
Delta R.T. 0.01 min
Lab File: VL037898.D
Acq: 25 Oct 2021 17:43

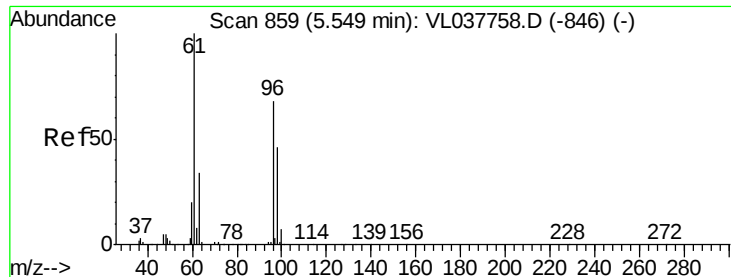
Tgt Ion:	83	Resp:	83217
Ion	Ratio	Lower	Upper
83	100		
85	55.0	51.8	77.8



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: 3.984 ppbv

RT: 5.56

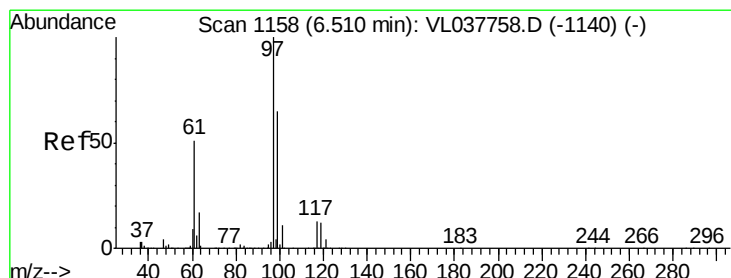
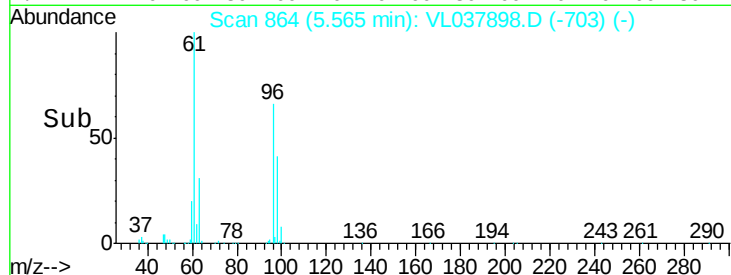
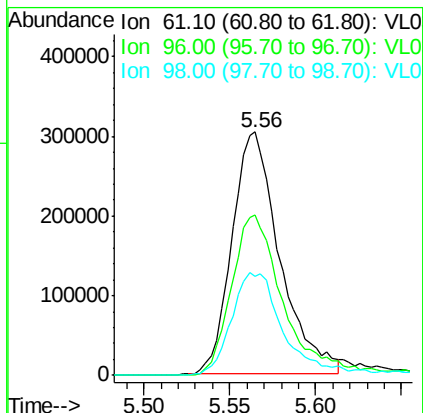
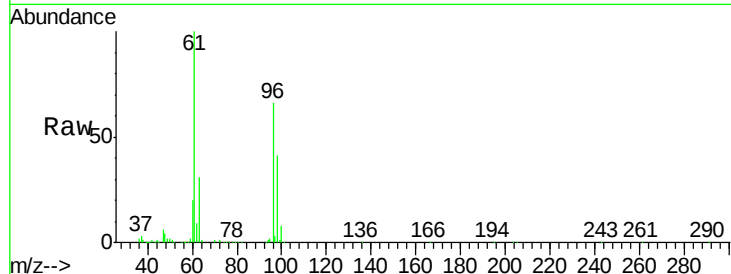
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 25 Oct 2021 17:43

Tgt Ion: 61 Resp: 587169

Ion	Ratio	Lower	Upper
61	100		
96	66.2	54.2	81.2
98	40.8	36.6	54.8



#32

1,1,1-Trichloroethane

Concen: 0.654 ppbv

RT: 6.52 min Scan# 1162

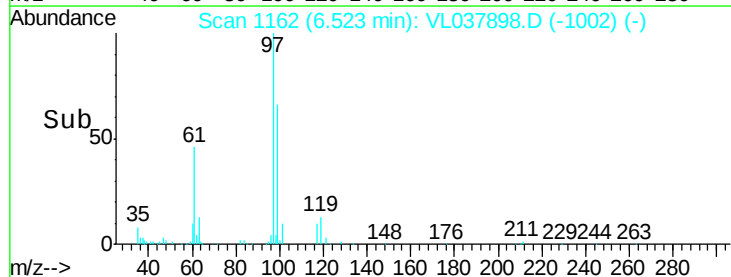
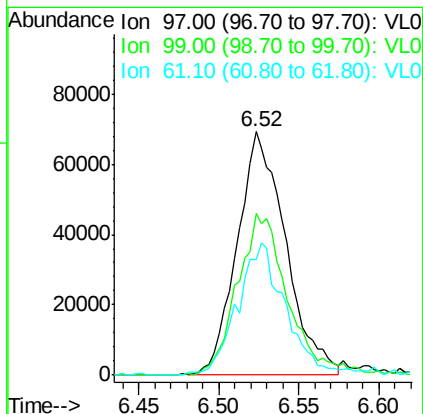
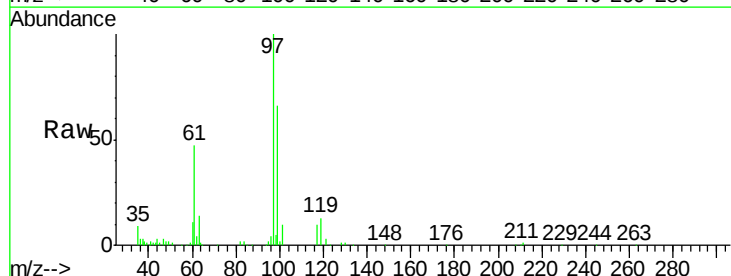
Delta R.T. 0.01 min

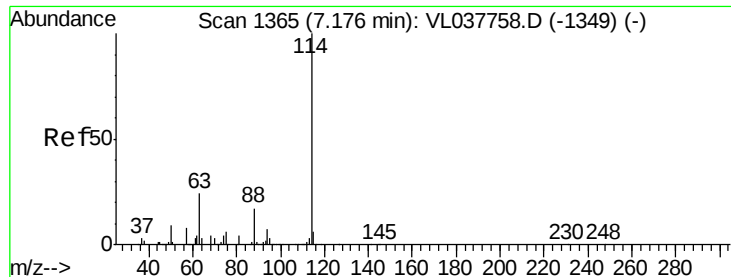
Lab File: VL037898.D

Acq: 25 Oct 2021 17:43

Tgt Ion: 97 Resp: 143778

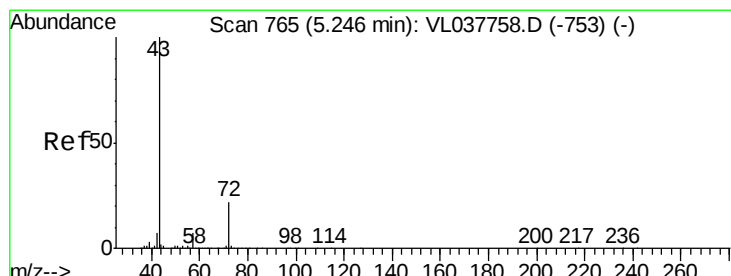
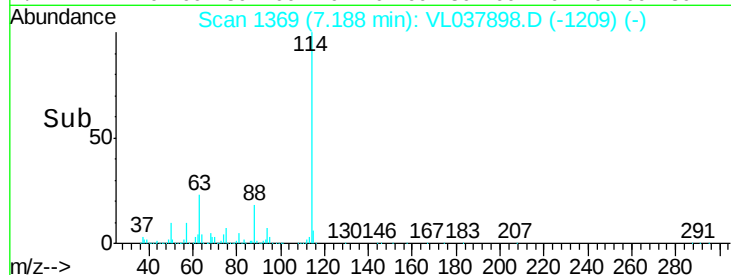
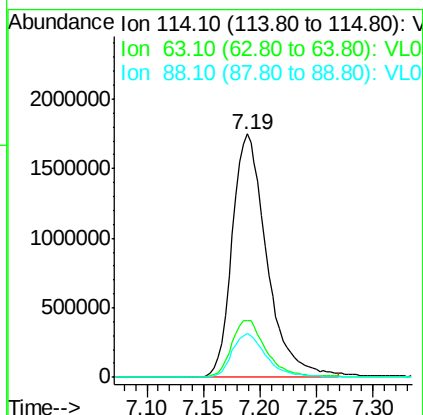
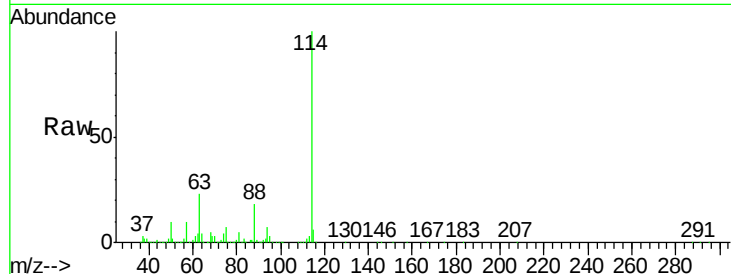
Ion	Ratio	Lower	Upper
97	100		
99	69.7	52.6	78.8
61	54.9	40.2	60.4





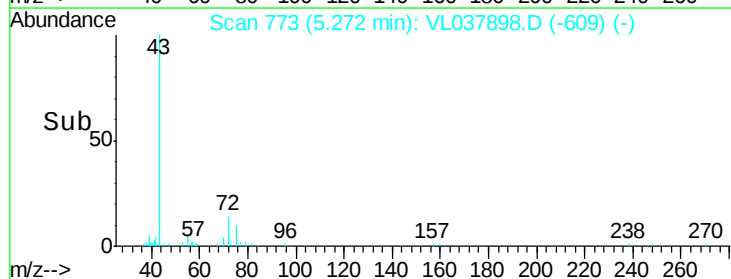
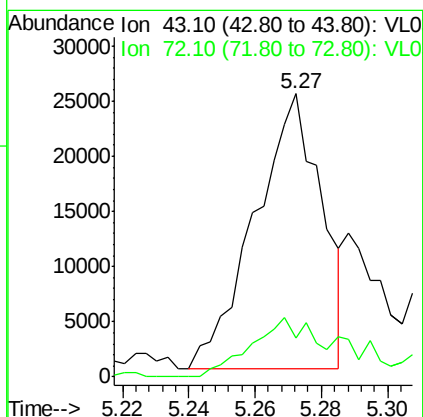
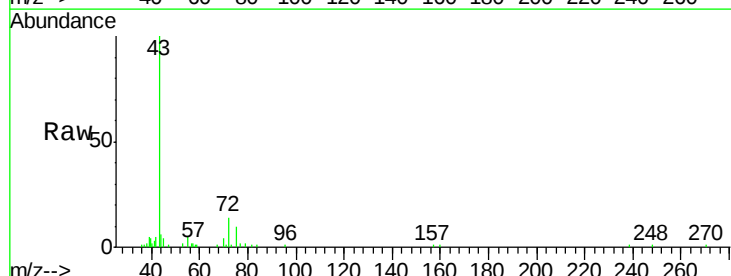
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 SVE-EFFLUENT
 Acq: 25 Oct 2021 17:43

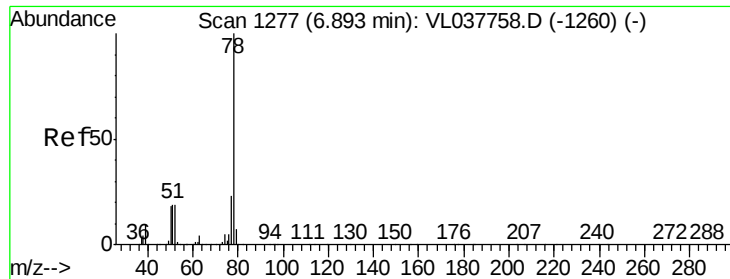
Tgt Ion: 114 Resp: 3738768
 Ion Ratio Lower Upper
 114 100
 63 24.0 19.4 29.2
 88 18.0 14.4 21.6



#34
 2-Butanone
 Concen: 0.232 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T.: 0.03 min
 Lab File: VL037898.D
 Acq: 25 Oct 2021 17:43

Tgt Ion: 43 Resp: 35051
 Ion Ratio Lower Upper
 43 100
 72 35.0 18.2 27.2#





#36

Benzene

Concen: 0.034 ppbv

RT: 6.91 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Oct 2021 17:43 SVE-EFFLUENT

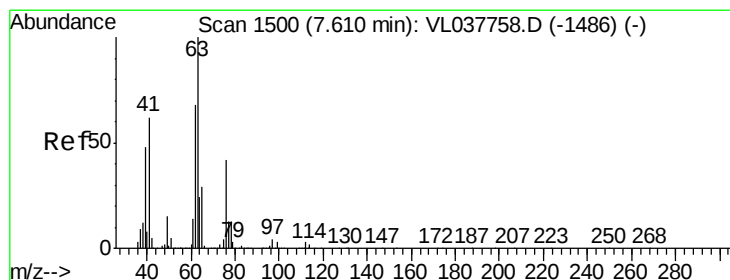
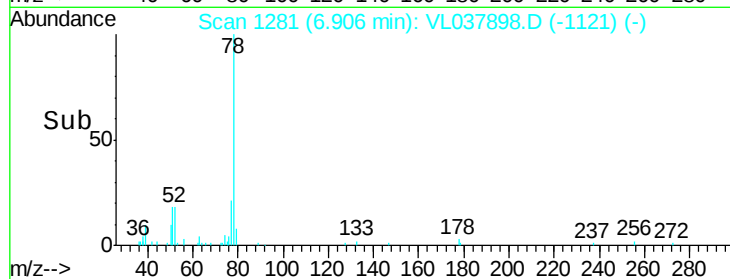
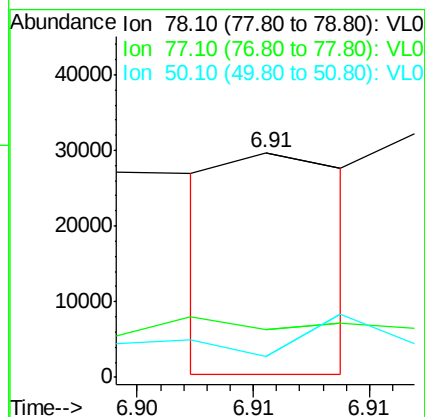
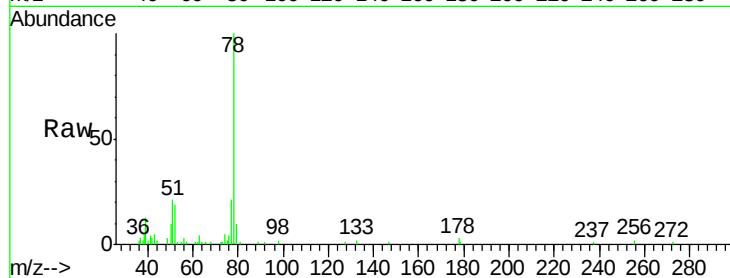
Tgt Ion: 78 Resp: 10880

Ion Ratio Lower Upper

78 100

77 0.0 18.8 28.2#

50 0.0 14.7 22.1#



#39

1,2-Dichloropropane

Concen: 7.265 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. -0.42 min

Lab File: VL037898.D

Acq: 25 Oct 2021 17:43

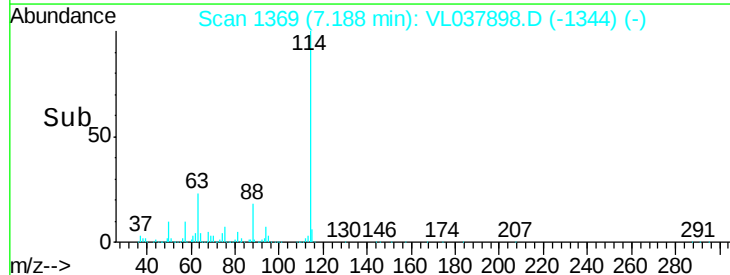
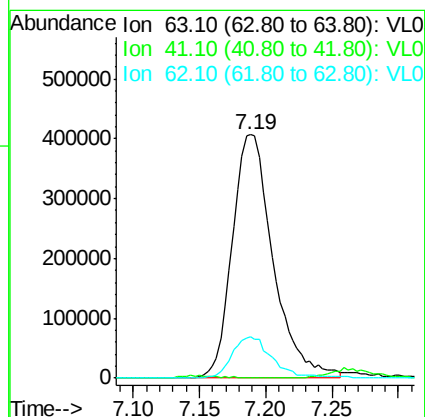
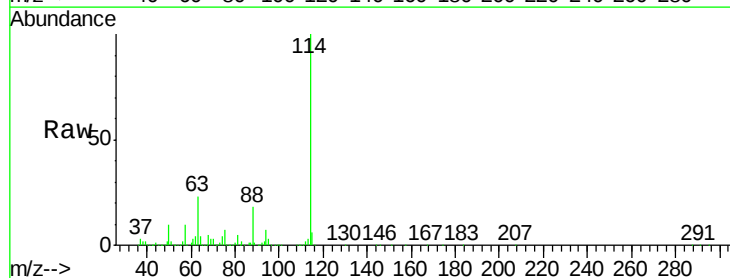
Tgt Ion: 63 Resp: 872609

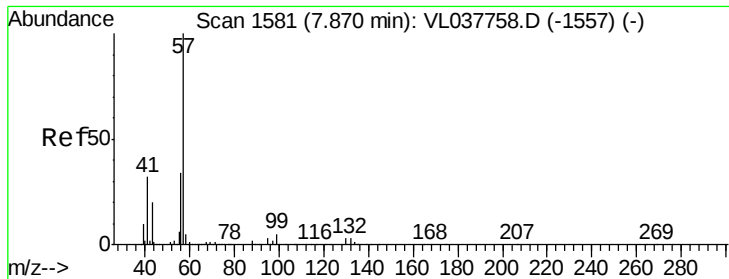
Ion Ratio Lower Upper

63 100

41 0.0 49.8 74.6#

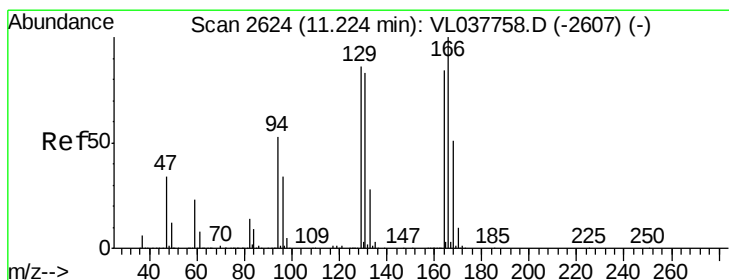
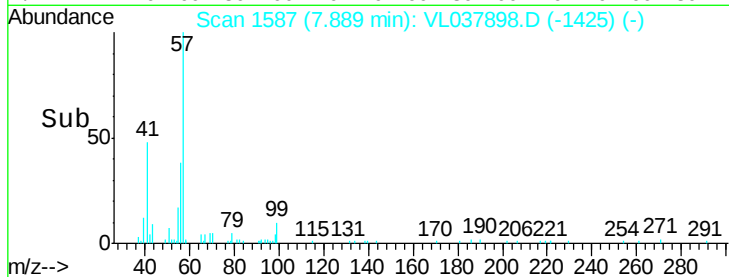
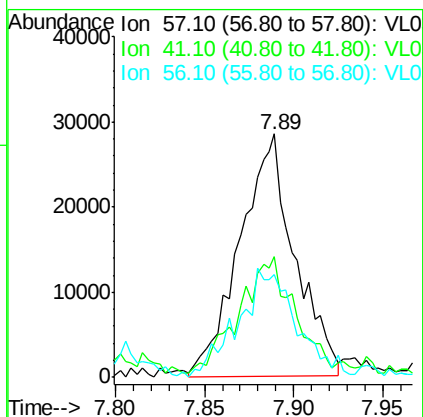
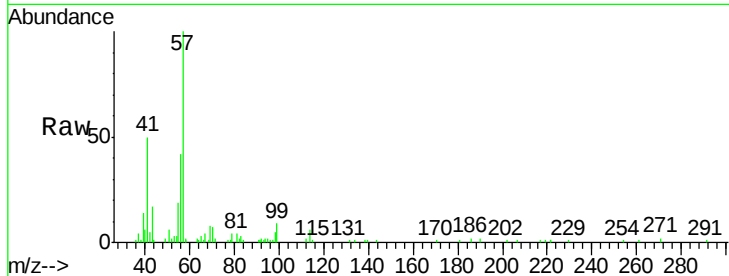
62 16.7 54.6 82.0#





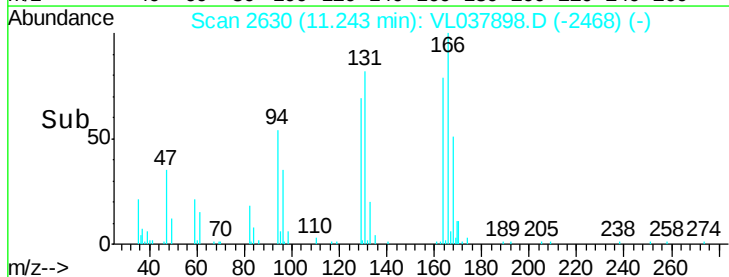
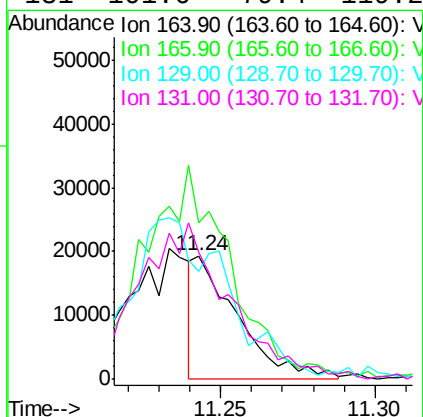
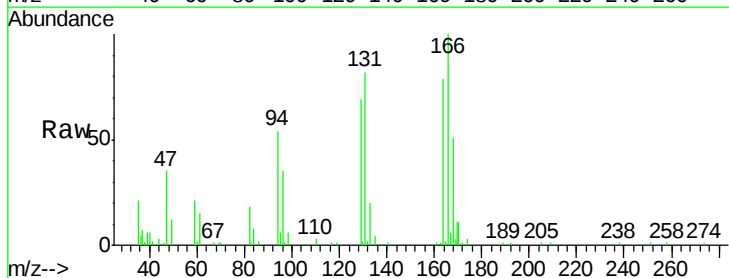
#44
 2,2,4-Trimethylpentane
 Concen: 0.114 ppbv
 RT: 7.89
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 25 Oct 2021 17:43

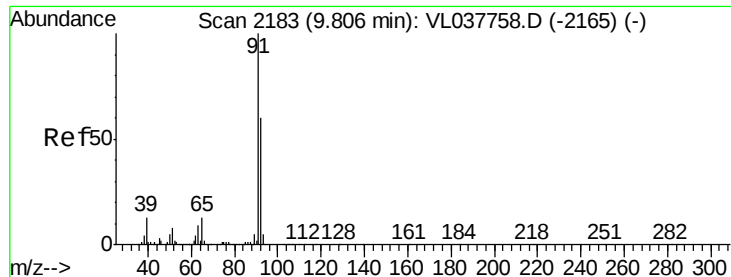
Tgt Ion	Ratio	Lower	Upper
57	100		
41	51.0	25.6	38.4#
56	50.7	25.5	38.3#



#52
 Tetrachloroethene
 Concen: 0.152 ppbv
 RT: 11.24 min Scan# 2630
 Delta R.T. 0.02 min
 Lab File: VL037898.D
 Acq: 25 Oct 2021 17:43

Tgt Ion	Ratio	Lower	Upper
164	100		
166	124.0	95.4	143.2
129	83.4	82.2	123.4
131	101.6	79.4	119.2





#53

Toluene

Concen: 2.295 ppbv

RT: 9.82 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

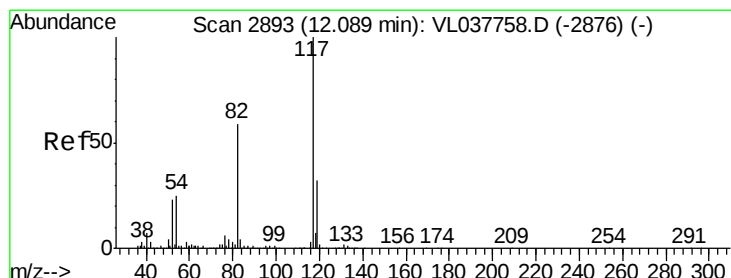
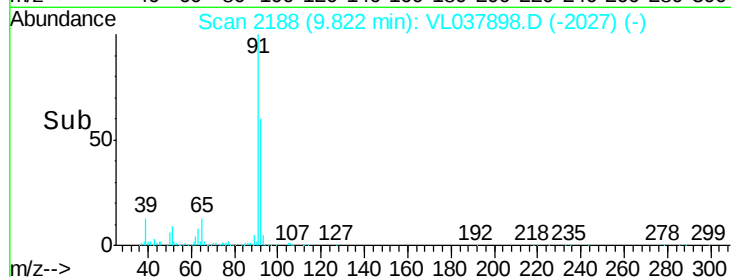
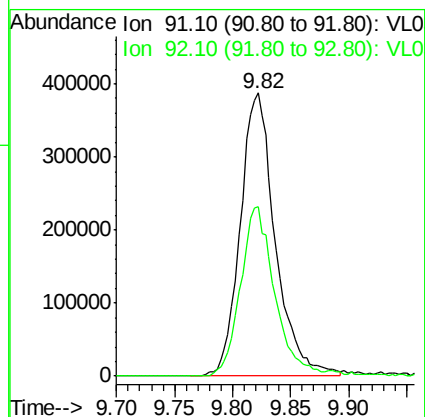
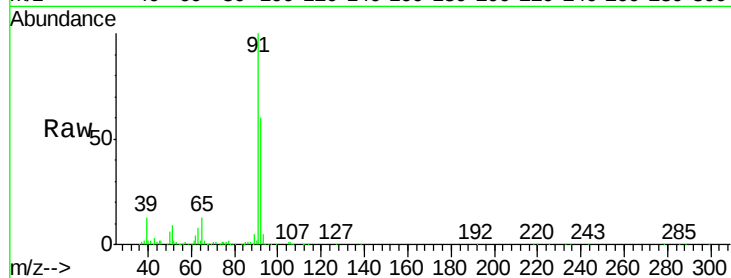
Acq: 25 Oct 2021 17:43 SVE-EFFLUENT

Tgt Ion: 91 Resp: 812361

Ion Ratio Lower Upper

91 100

92 60.0 48.4 72.6



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.01 min

Lab File: VL037898.D

Acq: 25 Oct 2021 17:43

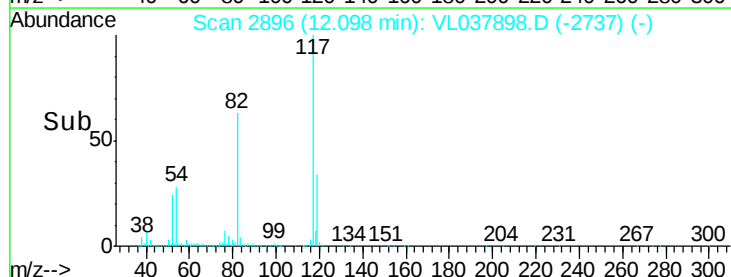
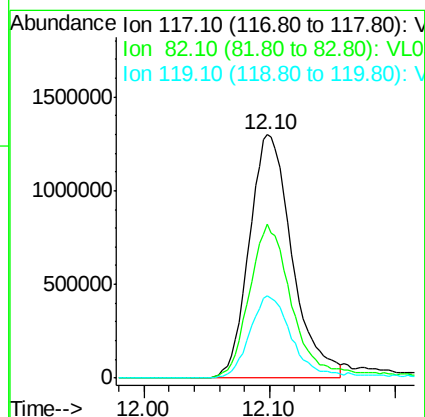
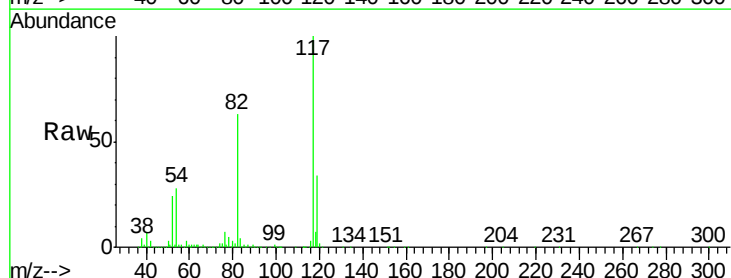
Tgt Ion: 117 Resp: 3089745

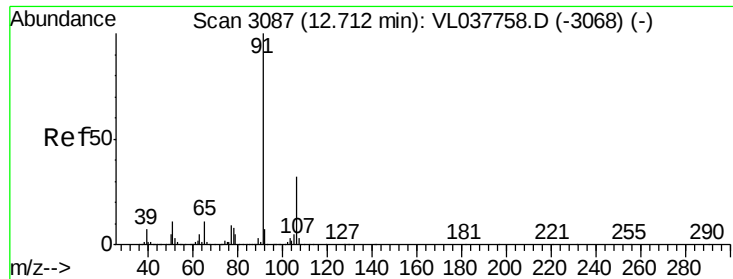
Ion Ratio Lower Upper

117 100

82 66.3 52.2 78.2

119 35.4 26.0 39.0





#58

Ethyl Benzene

Concen: 0.084 ppbv

RT: 12.73

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

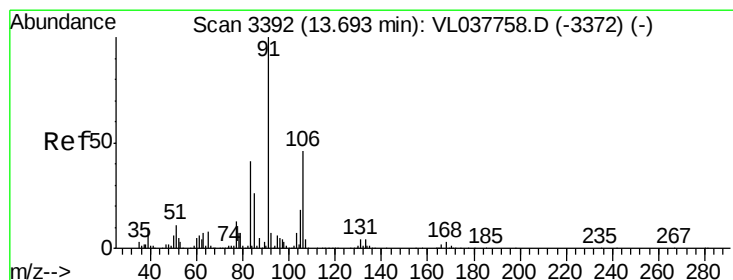
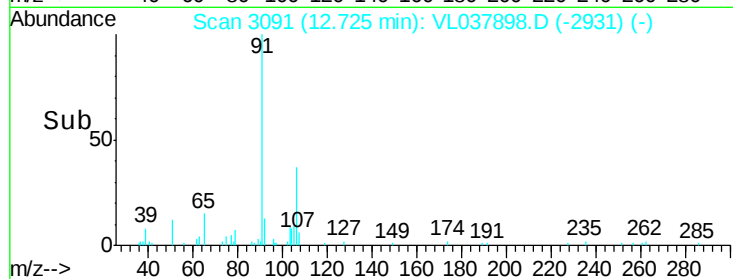
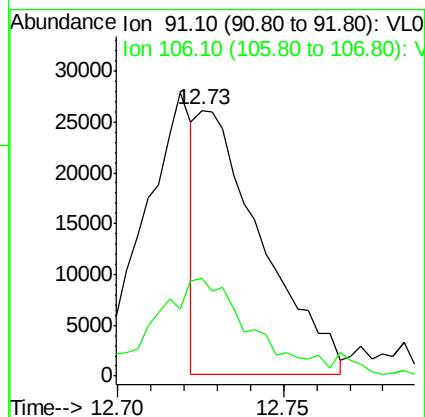
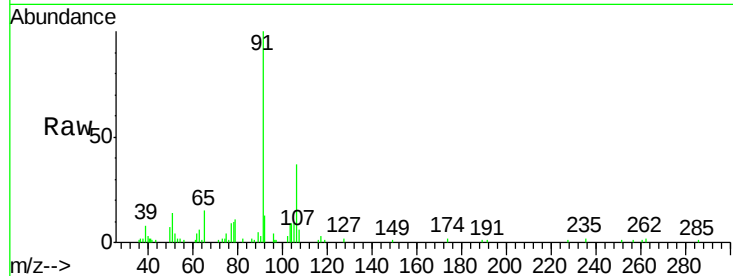
Acq: 25 Oct 2021 17:43

Tgt Ion: 91 Resp: 34736

Ion Ratio Lower Upper

91 100

106 29.7 25.3 37.9



#60

o-Xylene

Concen: 0.035 ppbv

RT: 13.71 min Scan# 3397

Delta R.T. 0.02 min

Lab File: VL037898.D

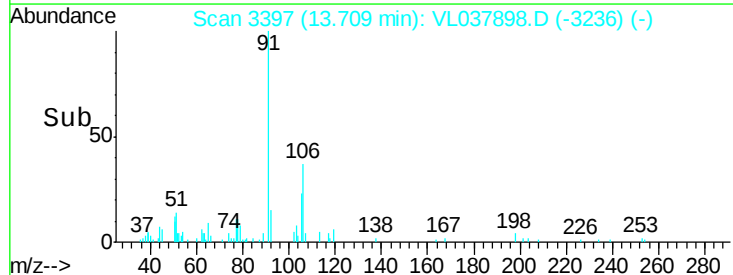
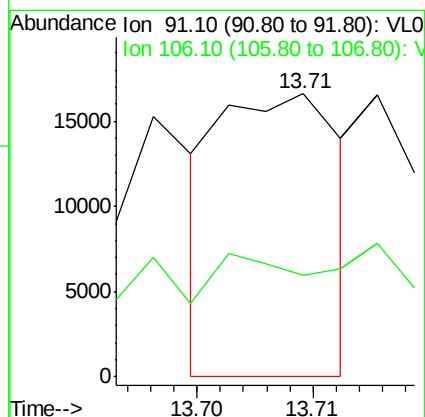
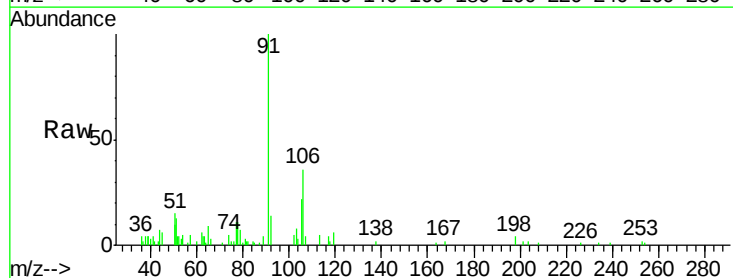
Acq: 25 Oct 2021 17:43

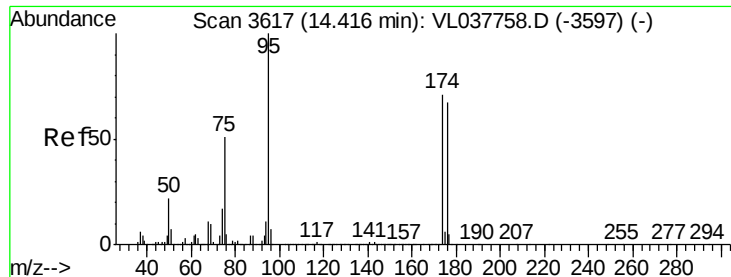
Tgt Ion: 91 Resp: 11930

Ion Ratio Lower Upper

91 100

106 0.0 23.5 70.5#





#68

1-Bromo-4-Fluorobenzene

Concen: 10.515 ppbv

RT: 14.43

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

SVE-EFFLUENT

Acq: 25 Oct 2021 17:43

Tgt Ion: 95 Resp: 2272006

Ion Ratio Lower Upper

95 100

174 72.9 57.8 86.6

175 5.5 4.7 7.1

