

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL102521\
 Data File : VL037896.D
 Acq On : 25 Oct 2021 16:25
 Operator : SY/AP
 Sample : M4339-01 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-INFLUENT

Quant Time: Oct 25 23:51:08 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	1502675	10.00	ppbv	0.01
33) 1,4-Difluorobenzene	7.19	114	4324987	10.00	ppbv	0.01
55) Chlorobenzene-d5	12.10	117	3636122	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.43	95	2600854	10.23	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.30%

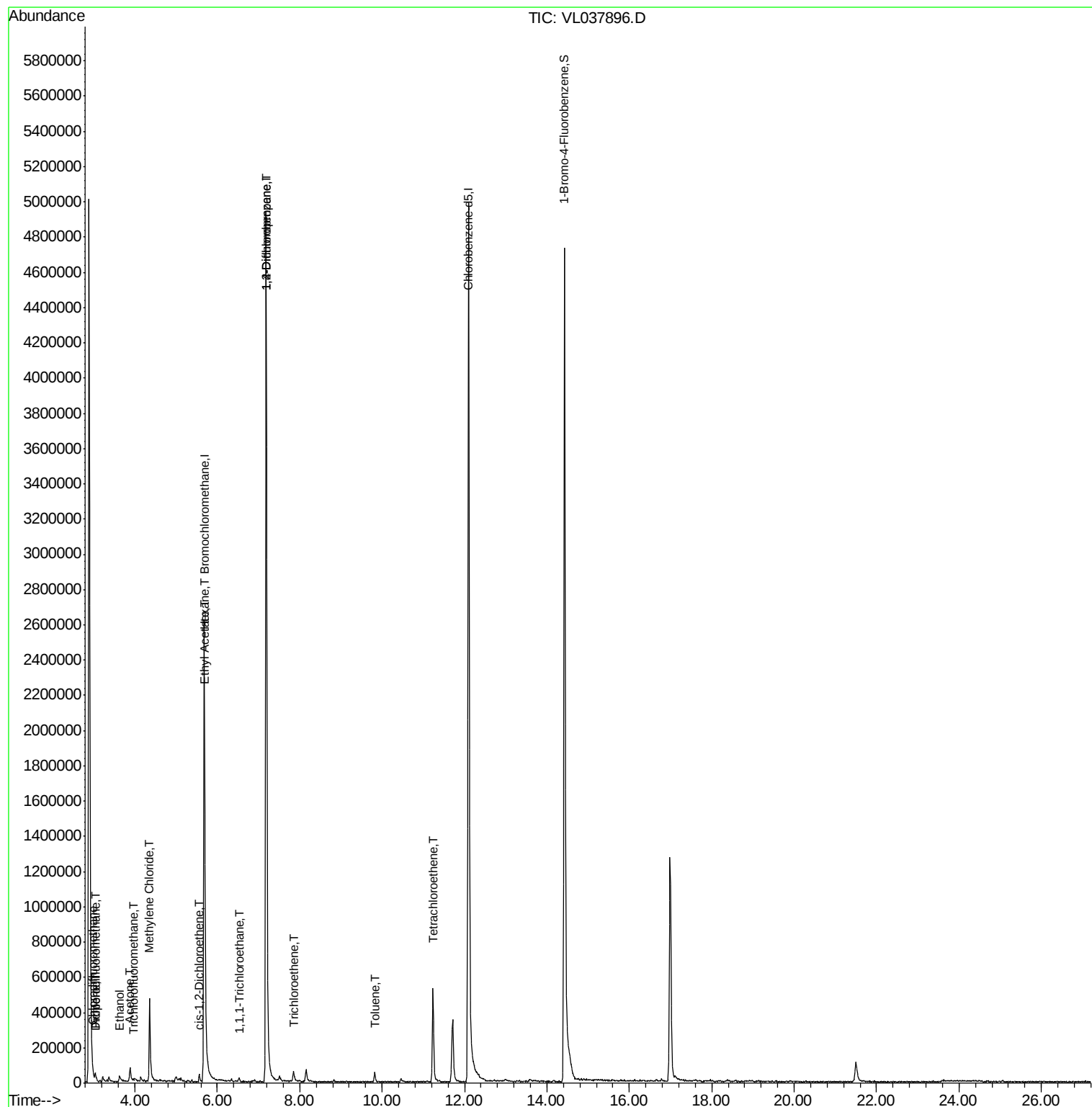
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	5153	0.021	ppbv #	53
3) Chlorodifluoromethane	2.99	51	18120	0.063	ppbv #	81
9) Propene	3.03	41	5736	0.054	ppbv #	16
11) Trichlorofluoromethane	3.96	101	4592	0.021	ppbv	87
13) Ethanol	3.63	45	26820	3.087	ppbv	72
15) Acetone	3.88	43	76578	0.568	ppbv	96
20) Methylene Chloride	4.36	84	193645	2.841	ppbv	96
25) Ethyl Acetate	5.70	43	46733	0.123	ppbv #	84
26) Hexane	5.70	57	74377	0.399	ppbv #	43
31) cis-1,2-Dichloroethene	5.56	61	26977	0.159	ppbv #	85
32) 1,1,1-Trichloroethane	6.53	97	7709	0.031	ppbv #	46
38) Trichloroethene	7.85	130	9690	0.066	ppbv #	74
39) 1,2-Dichloropropane	7.19	63	1020011	7.341	ppbv #	28
52) Tetrachloroethene	11.24	164	141542	0.985	ppbv	97
53) Toluene	9.82	91	34492	0.084	ppbv	94

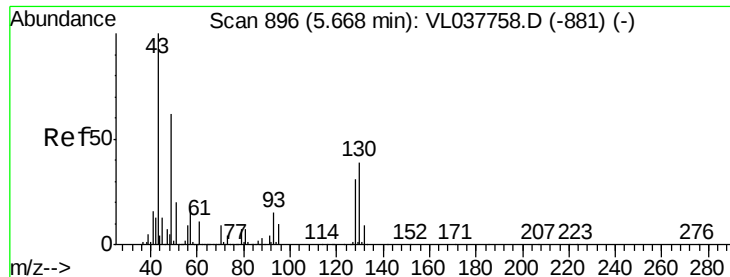
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Mon Oct 04 17:43:54 2021
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

Acq: 25 Oct 2021 16:25 SVE-INFLUENT

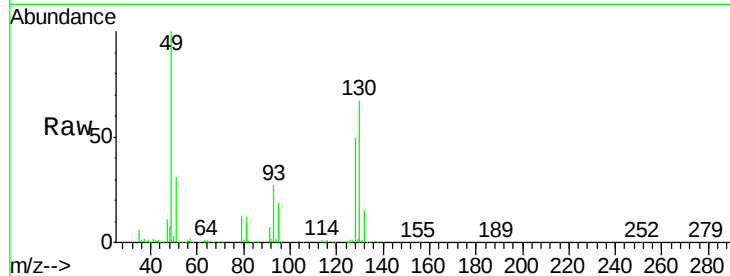
Tgt Ion: 49 Resp: 1502675

Ion Ratio Lower Upper

49 100

128 53.3 27.1 81.3

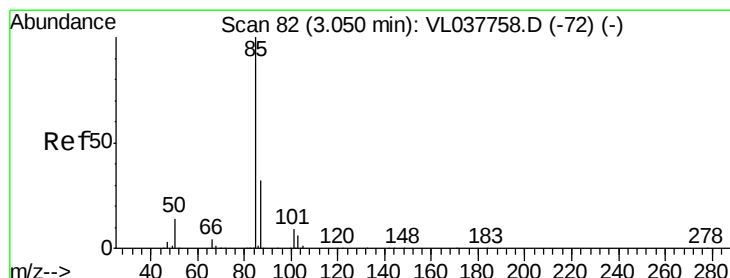
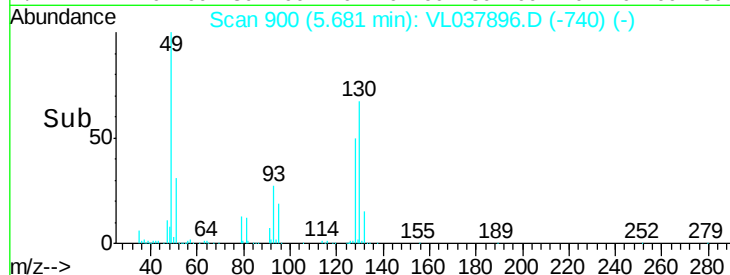
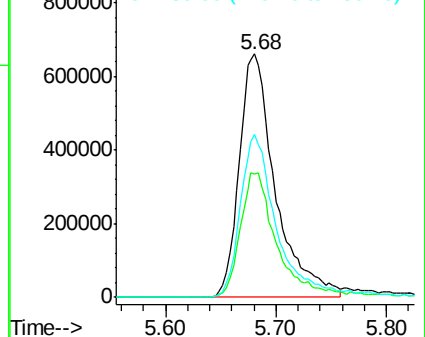
130 68.7 33.2 99.6



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: 0.021 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL037896.D

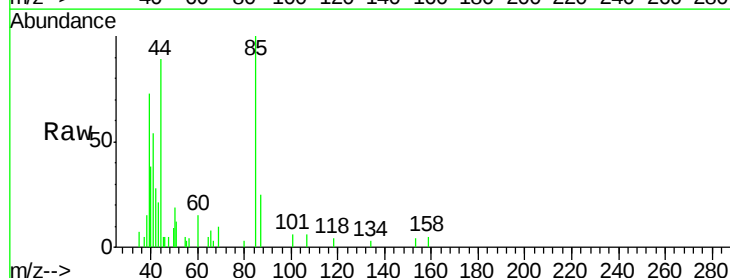
Acq: 25 Oct 2021 16:25

Tgt Ion: 85 Resp: 5153

Ion Ratio Lower Upper

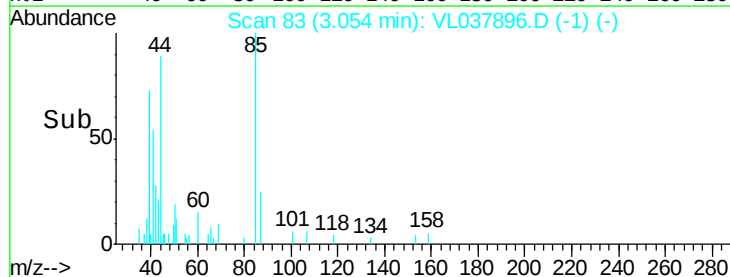
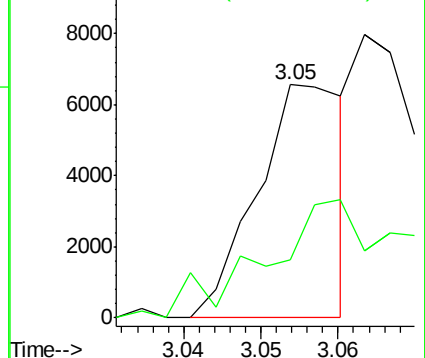
85 100

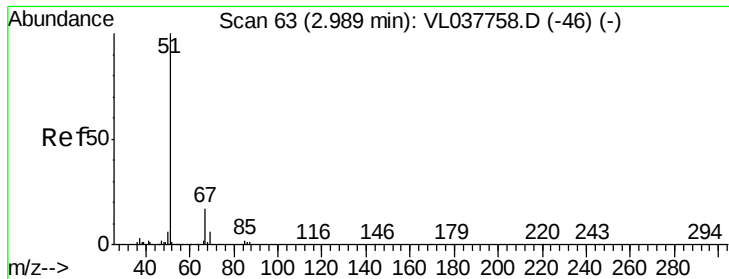
87 5.7 25.7 38.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.063 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

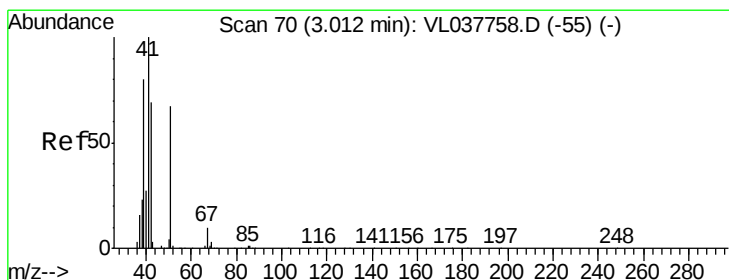
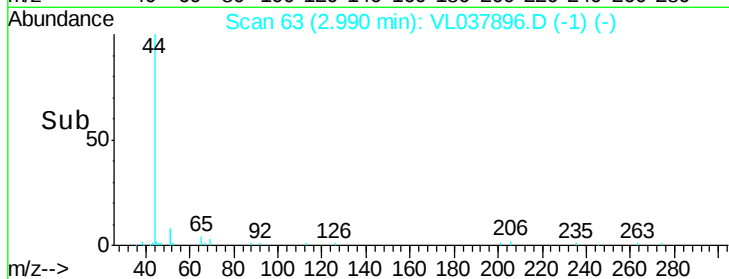
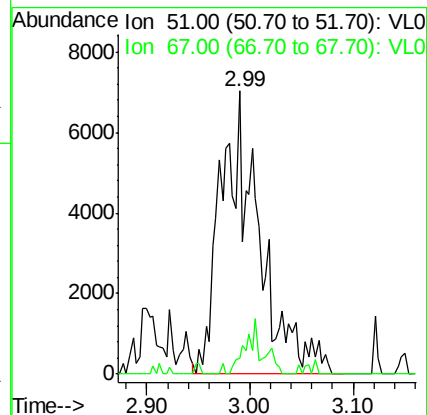
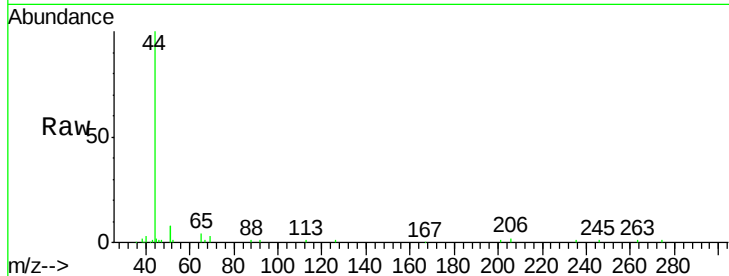
Acq: 25 Oct 2021 16:25 SVE-INFLUENT

Tgt Ion: 51 Resp: 18120

Ion Ratio Lower Upper

51 100

67 8.8 13.5 20.3#



#9

Propene

Concen: 0.054 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.02 min

Lab File: VL037896.D

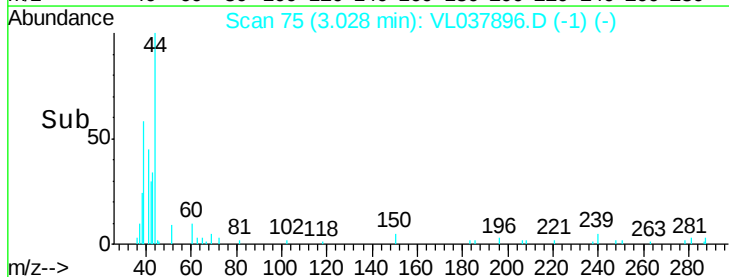
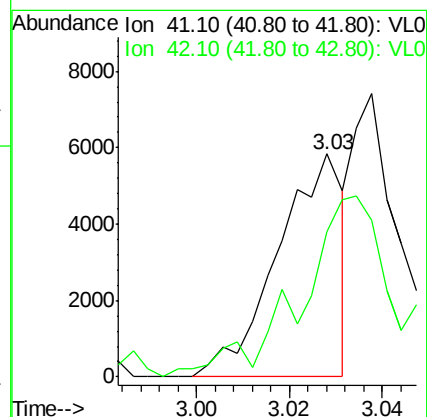
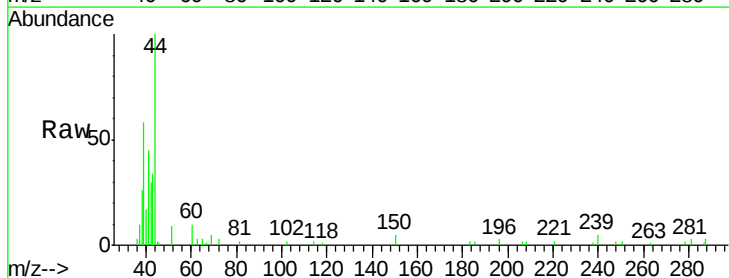
Acq: 25 Oct 2021 16:25

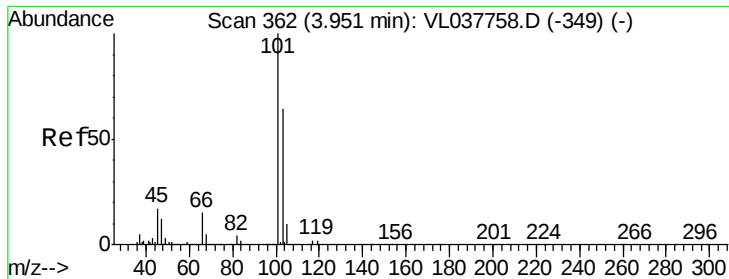
Tgt Ion: 41 Resp: 5736

Ion Ratio Lower Upper

41 100

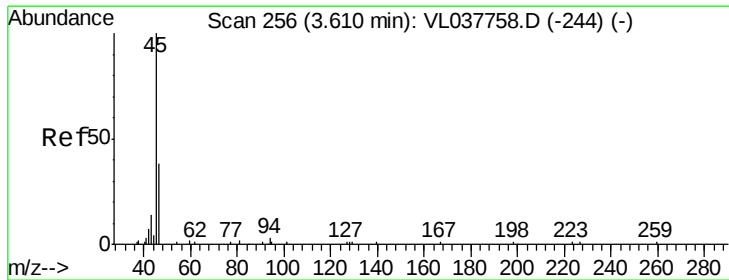
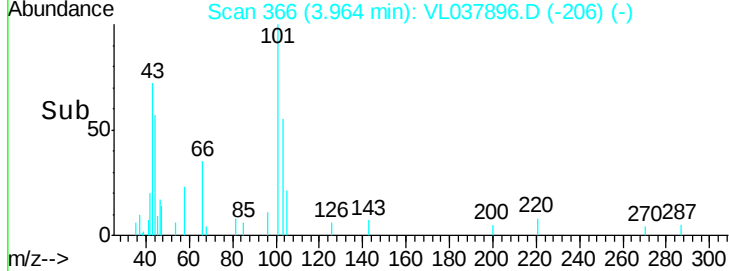
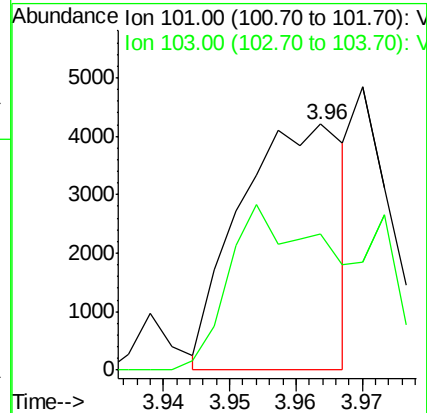
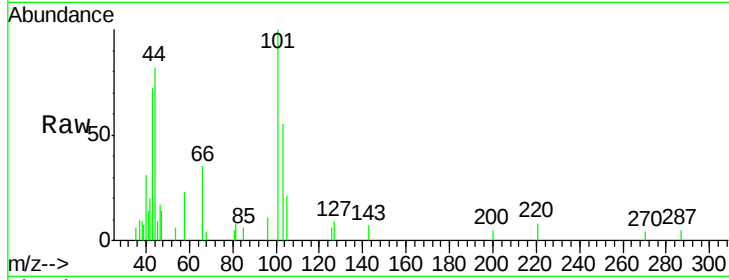
42 0.0 54.2 81.2#





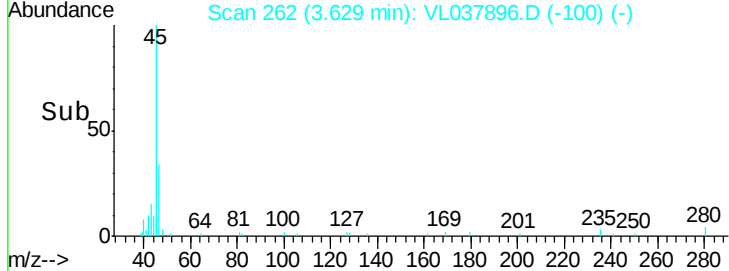
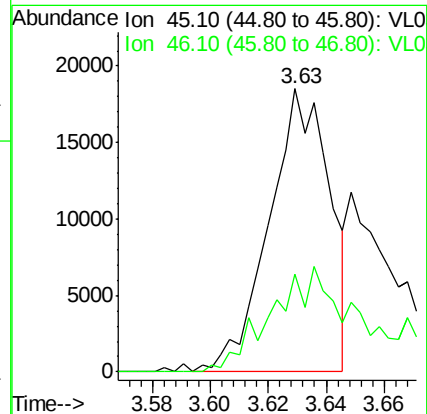
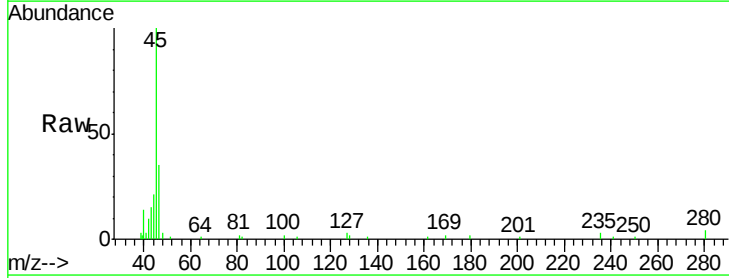
#11
 Trichlorofluoromethane
 Concen: 0.021 ppbv
 RT: 3.96
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 SVE-INFLUENT
 Acq: 25 Oct 2021 16:25

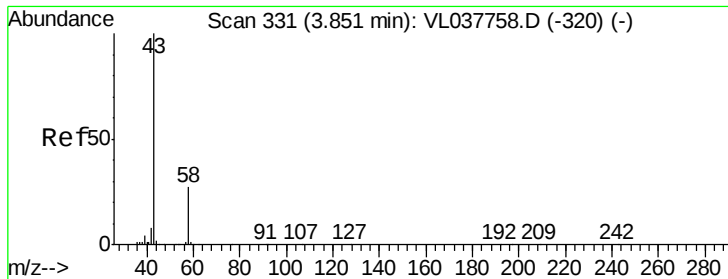
Tgt Ion: 101 Resp: 4592
 Ion Ratio Lower Upper
 101 100
 103 54.3 51.5 77.3



#13
 Ethanol
 Concen: 3.087 ppbv
 RT: 3.63 min Scan# 262
 Delta R.T.: 0.02 min
 Lab File: VL037896.D
 Acq: 25 Oct 2021 16:25

Tgt Ion: 45 Resp: 26820
 Ion Ratio Lower Upper
 45 100
 46 70.2 20.2 81.0





#15

Acetone

Concen: 0.568 ppbv

RT: 3.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

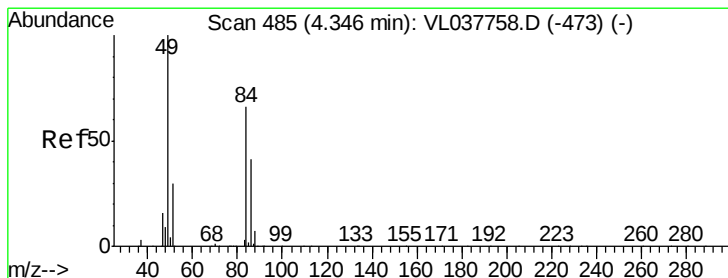
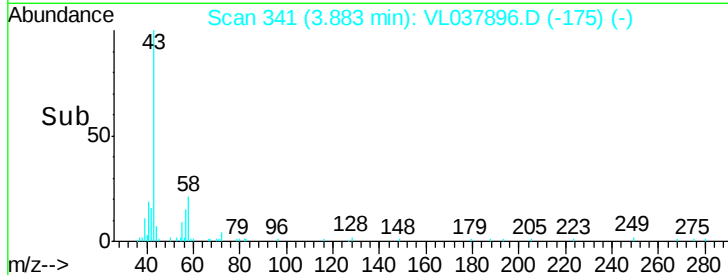
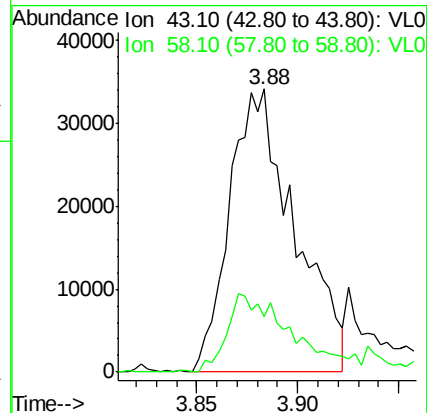
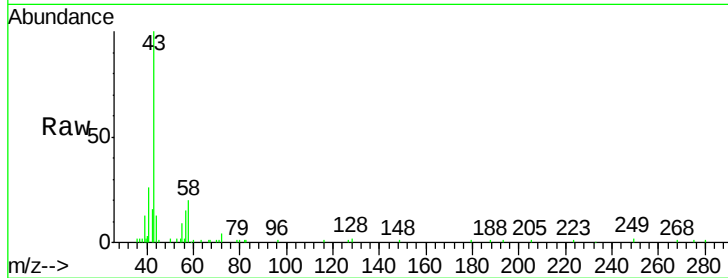
Acq: 25 Oct 2021 16:25 SVE-INFLUENT

Tgt Ion: 43 Resp: 76578

Ion Ratio Lower Upper

43 100

58 31.0 23.0 34.6



#20

Methylene Chloride

Concen: 2.841 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.01 min

Lab File: VL037896.D

Acq: 25 Oct 2021 16:25

Tgt Ion: 84 Resp: 193645

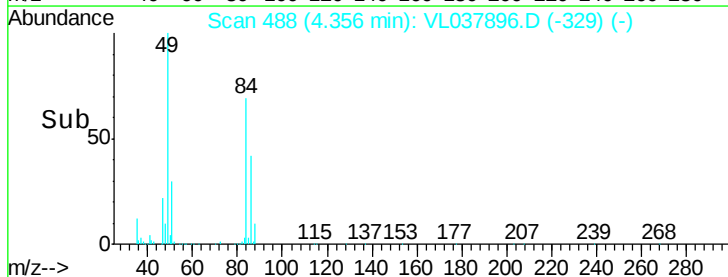
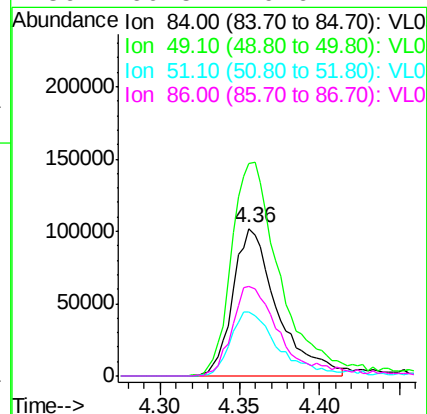
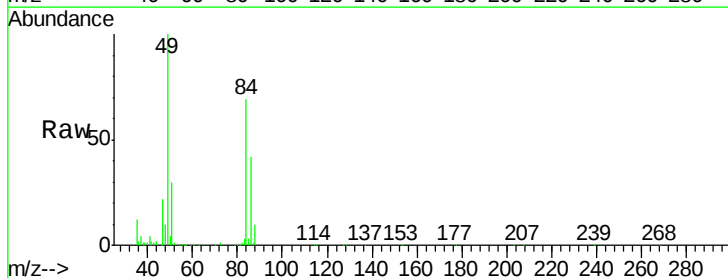
Ion Ratio Lower Upper

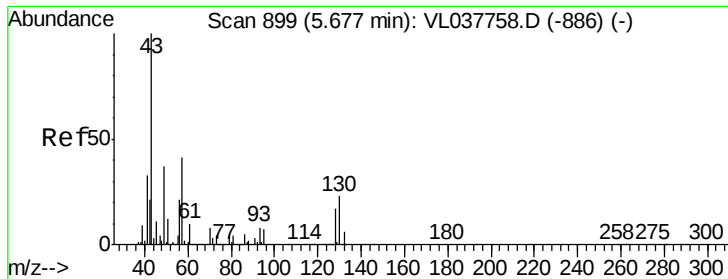
84 100

49 143.7 120.7 181.1

51 43.5 36.2 54.4

86 60.5 49.6 74.4





#25

Ethyl Acetate

Concen: 0.123 ppbv

RT: 5.70 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 25 Oct 2021 16:25 SVE-INFLUENT

Tgt Ion: 43 Resp: 46733

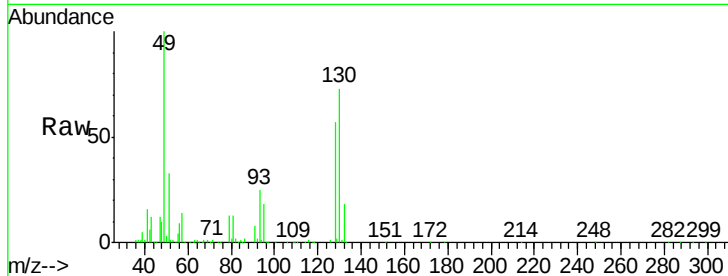
Ion Ratio Lower Upper

43 100

45 4.8 8.1 12.1#

61 4.8 7.5 11.3#

70 0.0 5.9 8.9#

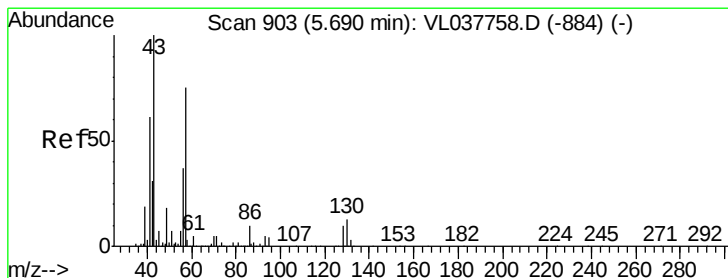
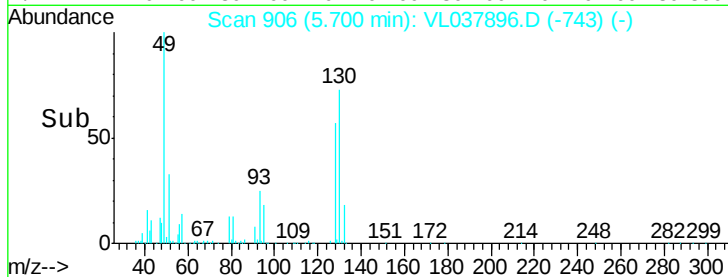
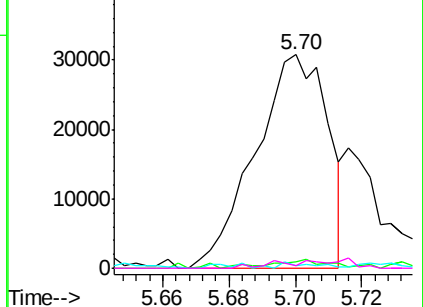


Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.399 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.01 min

Lab File: VL037896.D

Acq: 25 Oct 2021 16:25

Tgt Ion: 57 Resp: 74377

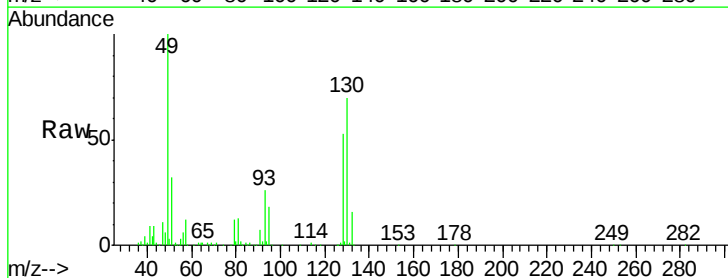
Ion Ratio Lower Upper

57 100

41 109.8 69.6 104.4#

43 87.4 171.4 257.0#

56 64.1 42.0 63.0#

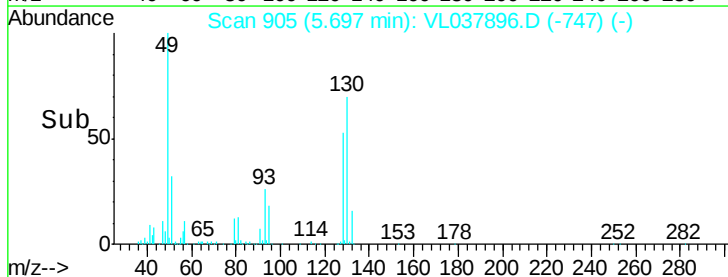
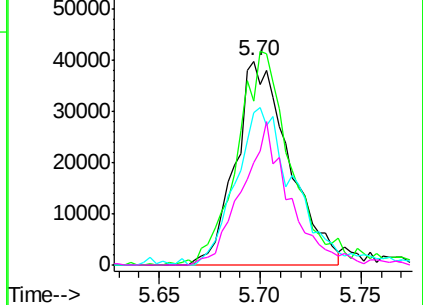


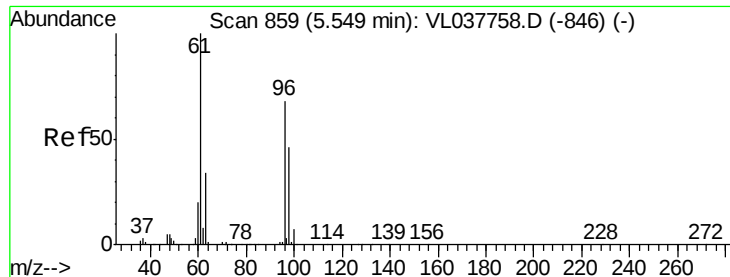
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





#31

cis-1,2-Dichloroethene

Concen: 0.159 ppbv

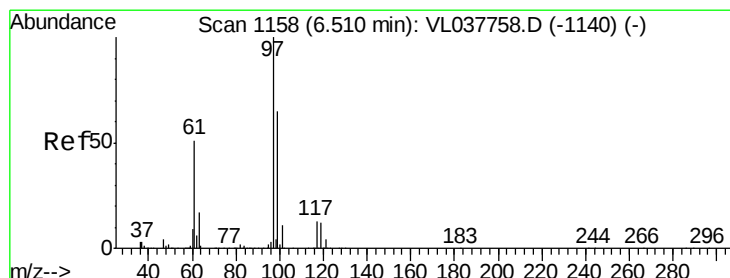
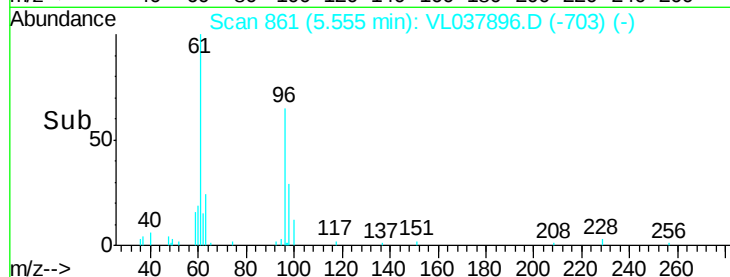
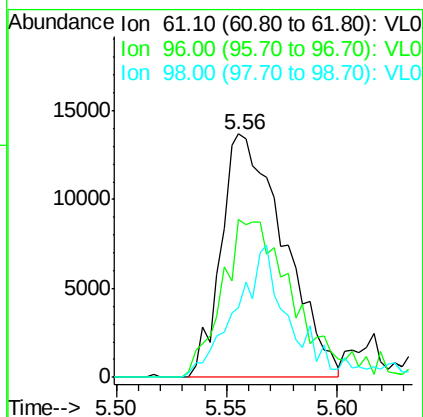
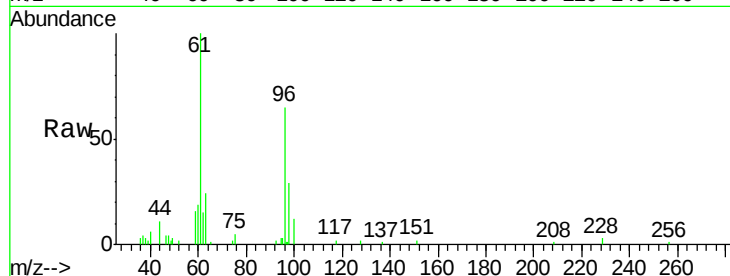
RT: 5.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Oct 2021 16:25 SVE-INFLUENT

Tgt Ion:	61	Resp:	26977
Ion	Ratio	Lower	Upper
61	100		
96	62.9	54.2	81.2
98	27.1	36.6	54.8#



#32

1,1,1-Trichloroethane

Concen: 0.031 ppbv

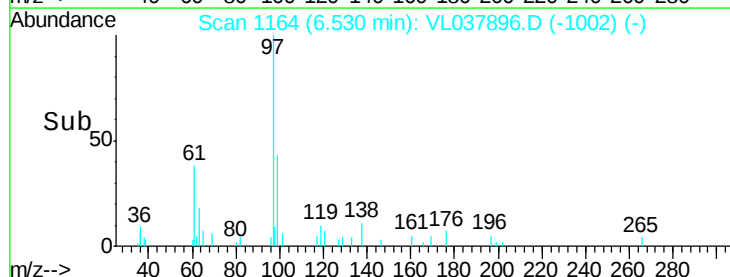
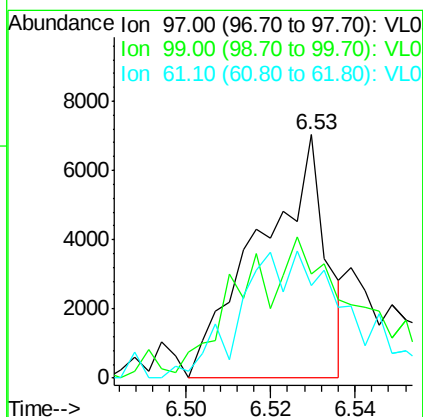
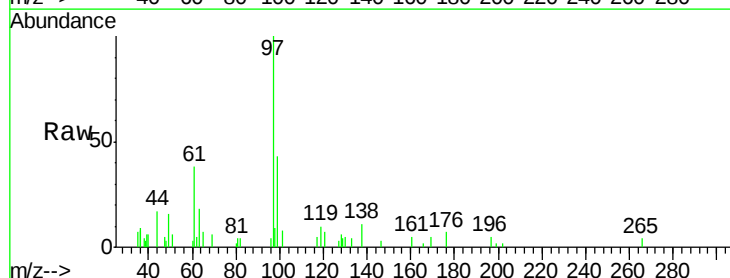
RT: 6.53 min Scan# 1164

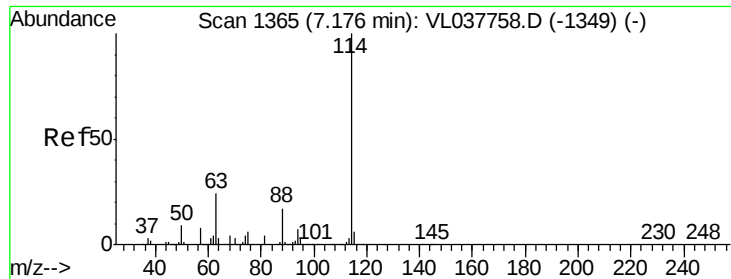
Delta R.T. 0.02 min

Lab File: VL037896.D

Acq: 25 Oct 2021 16:25

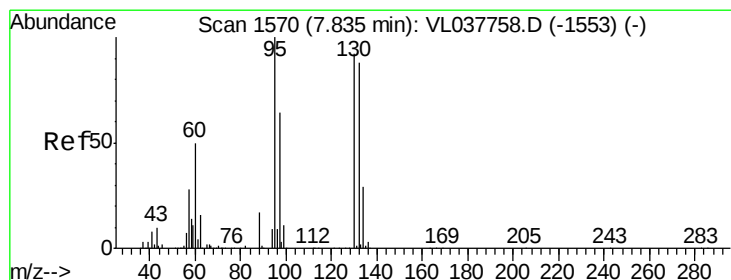
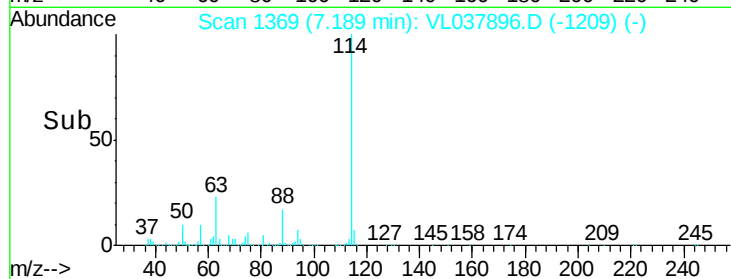
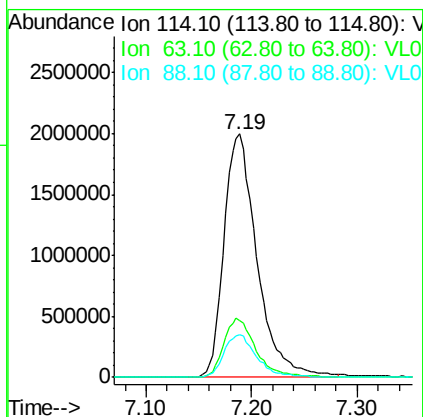
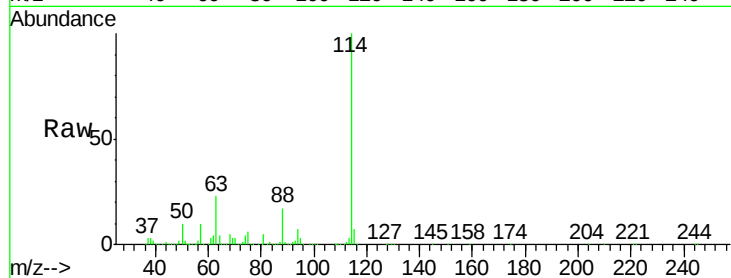
Tgt Ion:	97	Resp:	7709
Ion	Ratio	Lower	Upper
97	100		
99	105.8	52.6	78.8#
61	90.2	40.2	60.4#





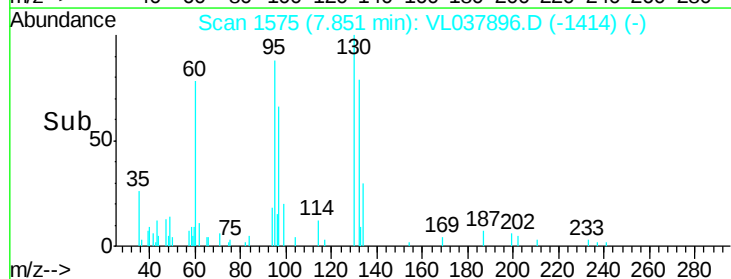
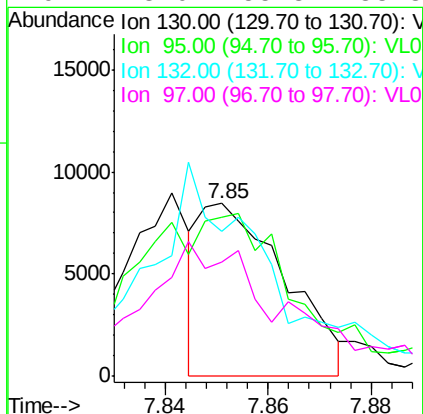
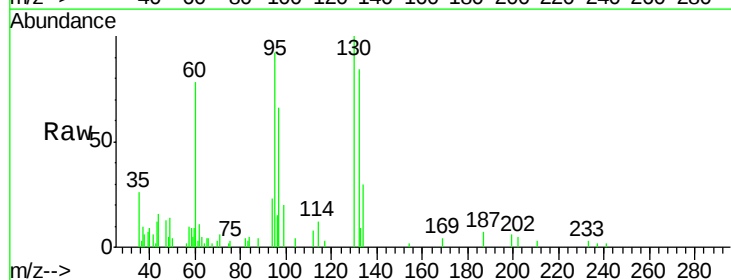
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 SVE-INFLUENT
 Acq: 25 Oct 2021 16:25

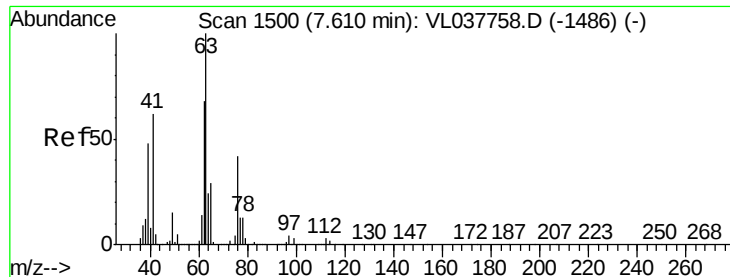
Tgt Ion:114 Resp: 4324987
 Ion Ratio Lower Upper
 114 100
 63 24.0 19.4 29.2
 88 17.7 14.4 21.6



#38
 Trichloroethene
 Concen: 0.066 ppbv
 RT: 7.85 min Scan# 1575
 Delta R.T. 0.02 min
 Lab File: VL037896.D
 Acq: 25 Oct 2021 16:25

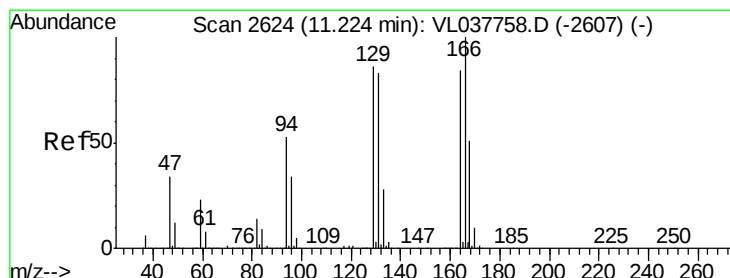
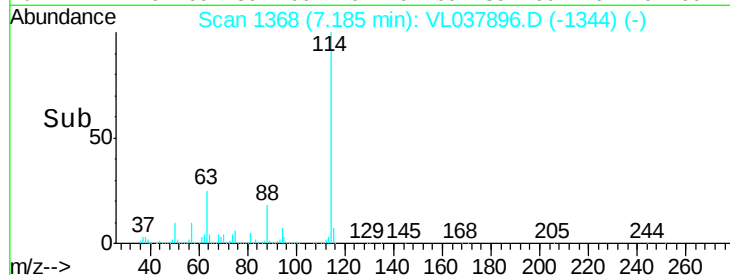
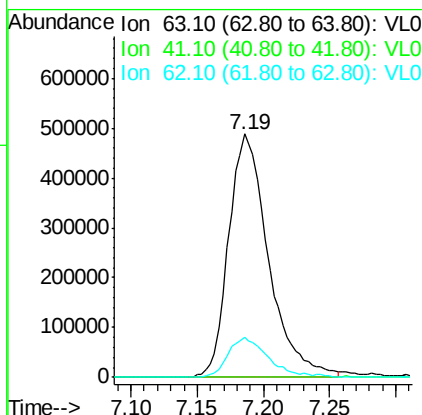
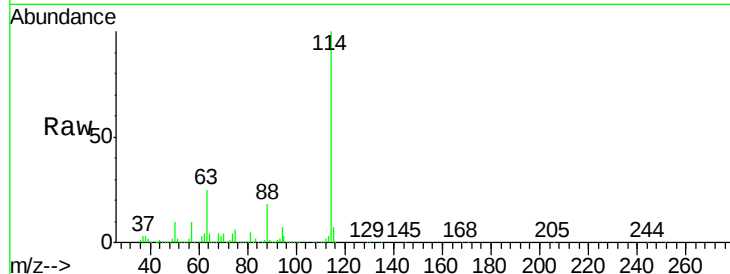
Tgt Ion:130 Resp: 9690
 Ion Ratio Lower Upper
 130 100
 95 83.0 87.4 131.0#
 132 69.6 76.8 115.2#
 97 48.0 55.8 83.8#





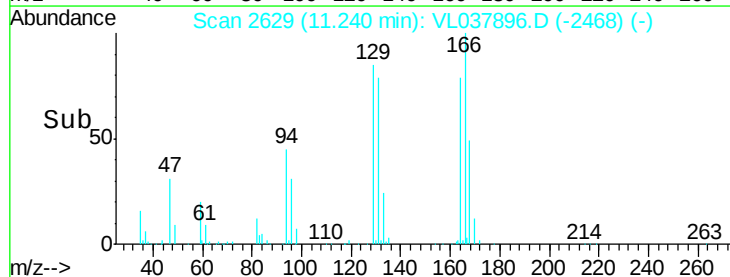
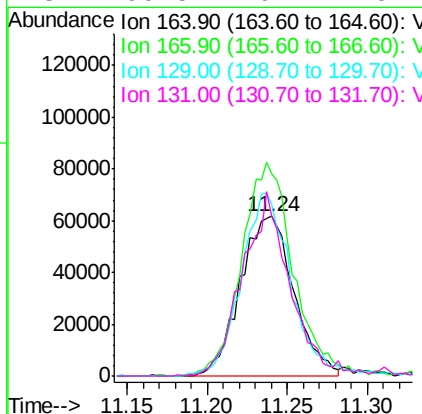
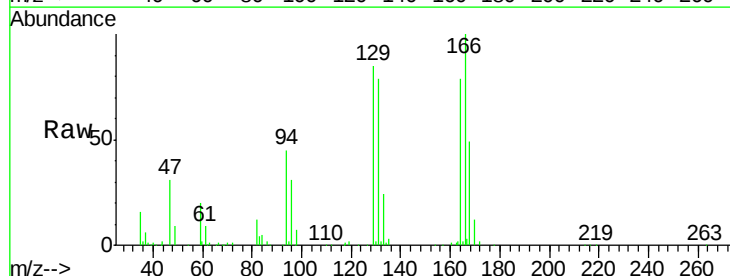
#39
 1,2-Dichloropropane
 Concen: 7.341 ppbv
 RT: 7.19
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId:
 SVE-INFLUENT
 Acq: 25 Oct 2021 16:25

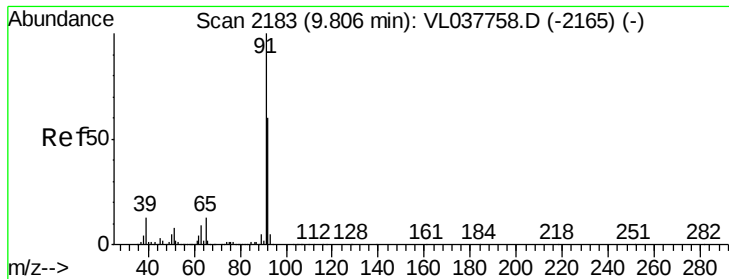
Tgt Ion: 63 Resp: 1020011
 Ion Ratio Lower Upper
 63 100
 41 0.0 49.8 74.6#
 62 16.6 54.6 82.0#



#52
 Tetrachloroethene
 Concen: 0.985 ppbv
 RT: 11.24 min Scan# 2629
 Delta R.T.: 0.02 min
 Lab File: VL037896.D
 Acq: 25 Oct 2021 16:25

Tgt Ion: 164 Resp: 141542
 Ion Ratio Lower Upper
 164 100
 166 126.3 95.4 143.2
 129 106.1 82.2 123.4
 131 99.5 79.4 119.2





#53

Toluene

Concen: 0.084 ppbv

RT: 9.82 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

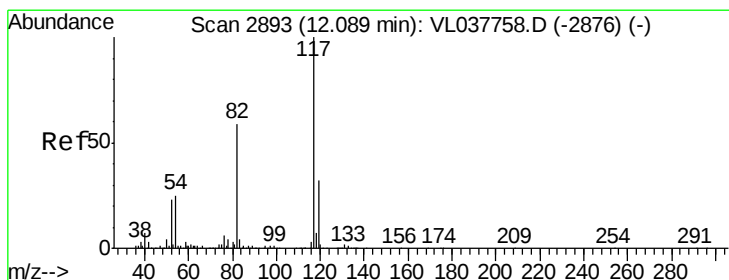
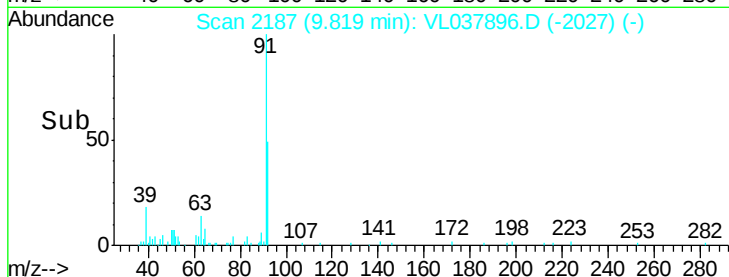
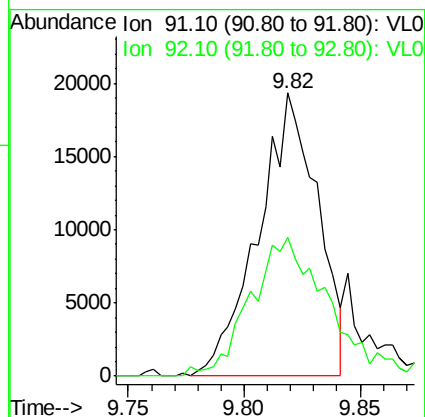
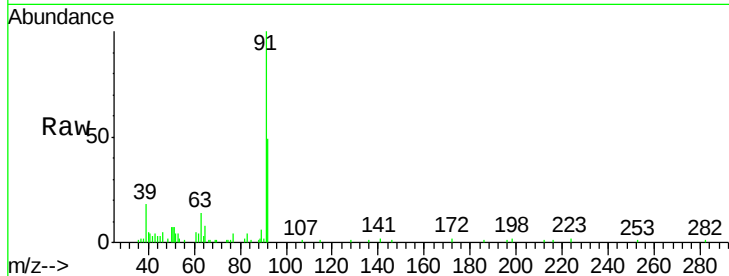
Acq: 25 Oct 2021 16:25 SVE-INFLUENT

Tgt Ion: 91 Resp: 34492

Ion Ratio Lower Upper

91 100

92 65.2 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: VL037896.D

Acq: 25 Oct 2021 16:25

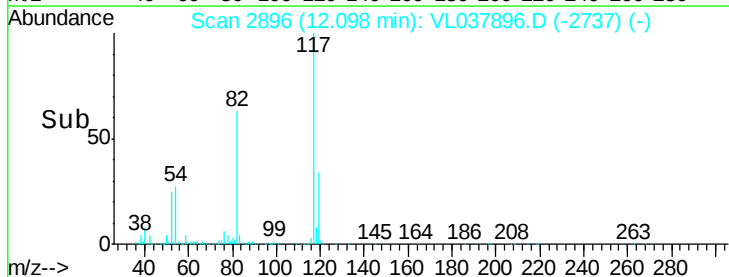
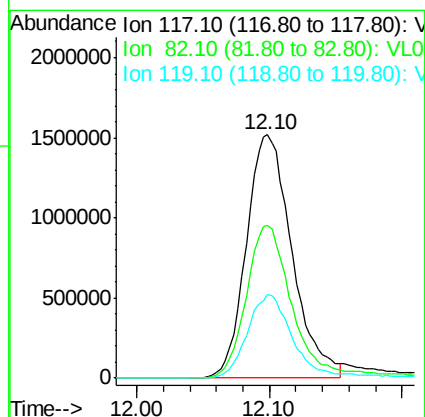
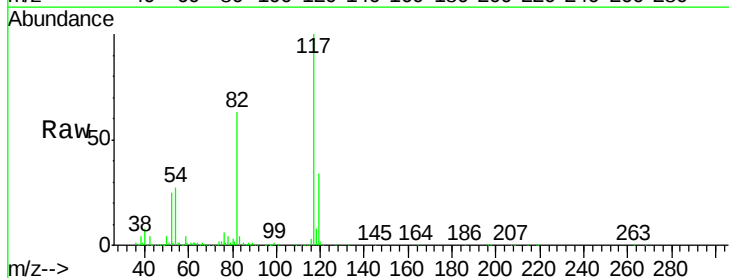
Tgt Ion: 117 Resp: 3636122

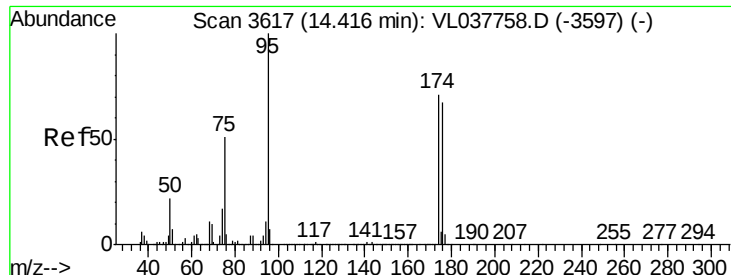
Ion Ratio Lower Upper

117 100

82 65.3 52.2 78.2

119 35.9 26.0 39.0





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.228 ppbv
 RT: 14.43
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 SVE-INFLUENT
 Acq: 25 Oct 2021 18:25

Tgt Ion:	95	Resp:	2600854
Ion	Ratio	Lower	Upper
95	100		
174	74.2	57.8	86.6
175	5.4	4.7	7.1

