

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL041222\
 Data File : VL038900.D
 Acq On : 12 Apr 2022 21:15
 Operator : SY/AP
 Sample : N2339-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SVE-EFFLUENTDUP

Quant Time: Apr 13 01:18:33 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	1005667	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2389174	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	1943627	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	1582795	10.74	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.40%

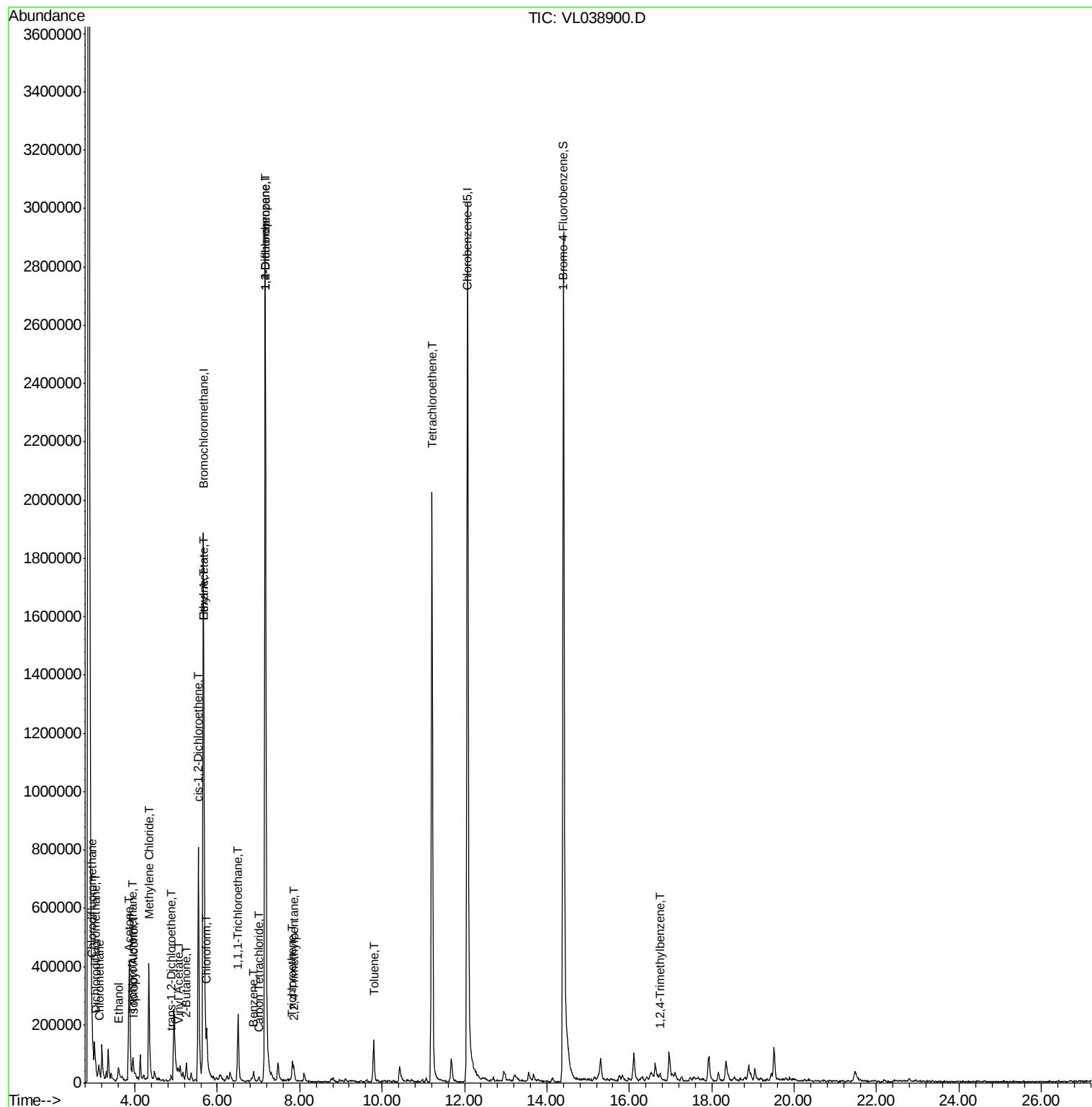
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	41076	0.288	ppbv #	80
3) Chlorodifluoromethane	2.96	51	83372	0.679	ppbv #	81
4) Chloromethane	3.13	50	20279	0.319	ppbv #	79
11) Trichlorofluoromethane	3.94	101	45937	0.401	ppbv	92
13) Ethanol	3.60	45	27023	6.848	ppbv #	100
15) Acetone	3.85	43	180363	1.801	ppbv #	70
19) Isopropyl Alcohol	3.97	45	16706	0.326	ppbv #	100
20) Methylene Chloride	4.34	84	162277	4.469	ppbv	93
22) trans-1,2-Dichloroethene	4.88	96	4018	0.099	ppbv	89
23) Vinyl Acetate	5.07	43	5611	0.058	ppbv #	47
25) Ethyl Acetate	5.68	43	111889	0.440	ppbv #	77
26) Hexane	5.68	57	157625	1.363	ppbv #	40
29) Chloroform	5.74	83	78922	0.488	ppbv	94
31) cis-1,2-Dichloroethene	5.54	61	513246	4.827	ppbv	89
32) 1,1,1-Trichloroethane	6.50	97	151372	0.929	ppbv	95
34) 2-Butanone	5.24	43	48737	0.516	ppbv #	51
35) Carbon Tetrachloride	7.01	117	8560	0.060	ppbv #	70
36) Benzene	6.88	78	25310	0.116	ppbv #	92
38) Trichloroethene	7.82	130	12652	0.142	ppbv #	82
39) 1,2-Dichloropropane	7.17	63	650752	7.828	ppbv #	27
44) 2,2,4-Trimethylpentane	7.85	57	27960	0.076	ppbv #	56
52) Tetrachloroethene	11.21	164	494438	6.513	ppbv	96
53) Toluene	9.79	91	52210	0.208	ppbv #	20
74) 1,2,4-Trimethylbenzene	16.75	105	9492	0.037	ppbv #	64

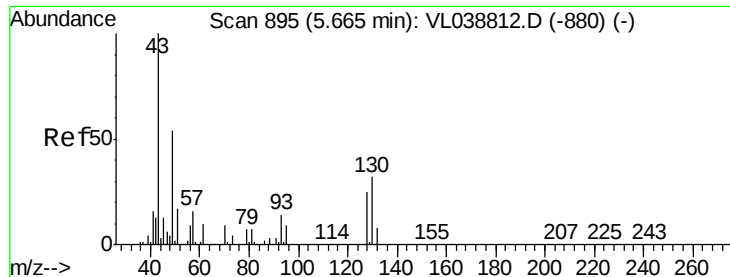
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Apr 06 06:12:53 2022
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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

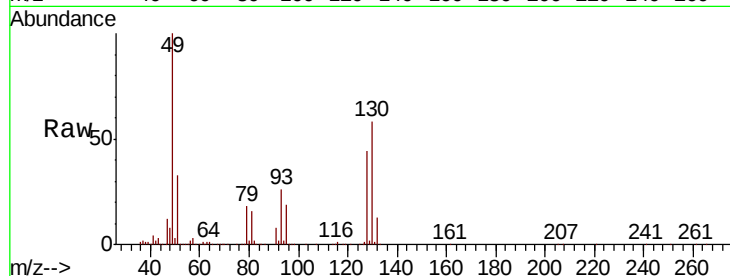
Delta R.T. ClientSampleId:

Lab File: SVE-EFFLUENTDUP

Acq: 12 Apr 2022 21:15

Tot Ion: 49 Resp: 1005667

Ion	Ratio	Lower	Upper
49	100		
128	46.9	24.1	72.3
130	59.7	30.9	92.8



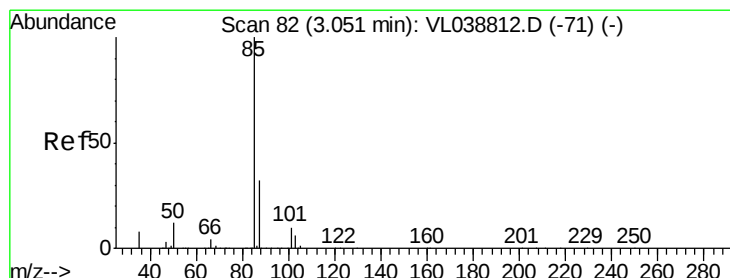
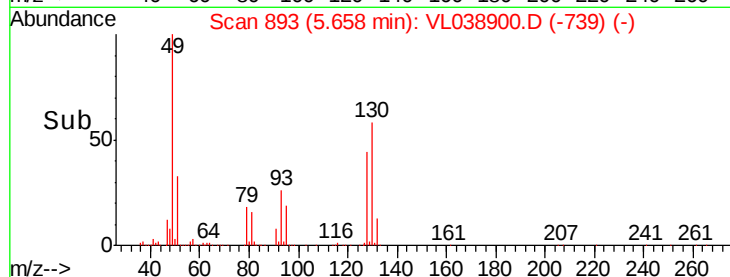
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.66

Time-->



#2

Dichlorodifluoromethane

Concen: 0.288 ppbv

RT: 3.05 min Scan# 81

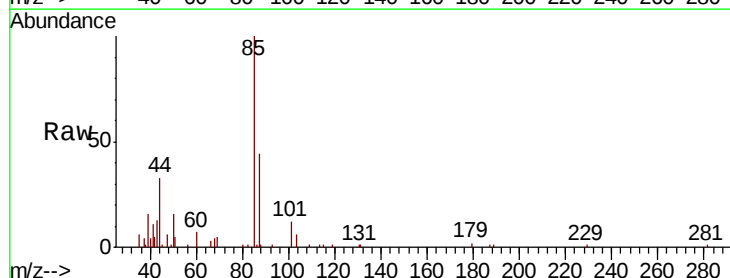
Delta R.T. -0.00 min

Lab File: VL038900.D

Acq: 12 Apr 2022 21:15

Tgt Ion: 85 Resp: 41076

Ion	Ratio	Lower	Upper
85	100		
87	43.9	25.9	38.9

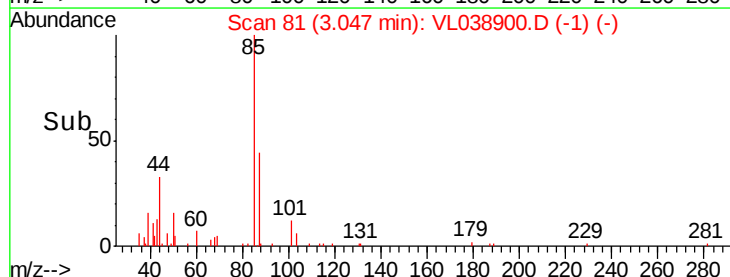


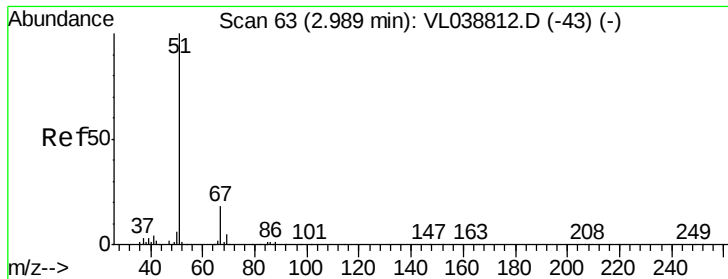
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.679 ppbv

RT: 2.96 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

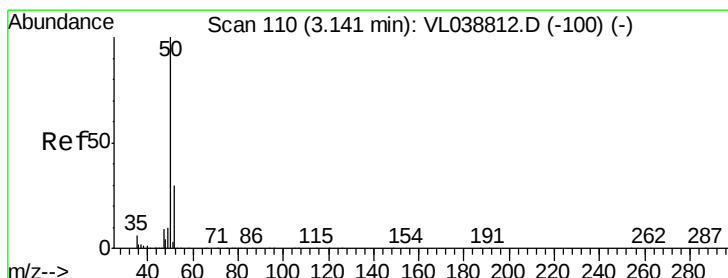
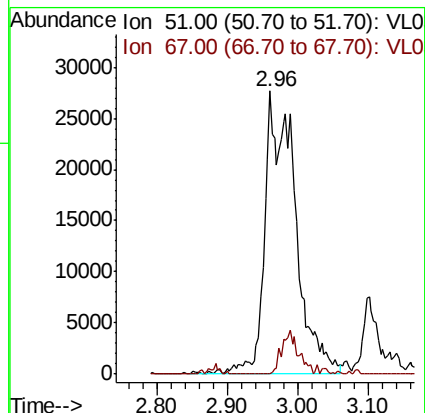
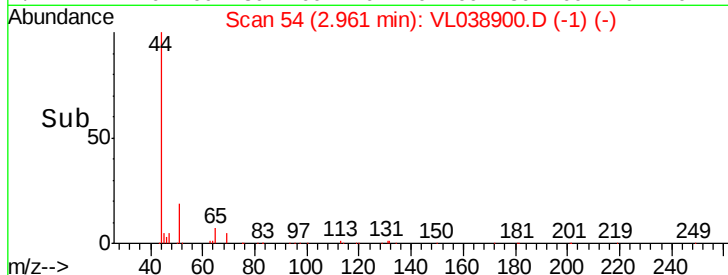
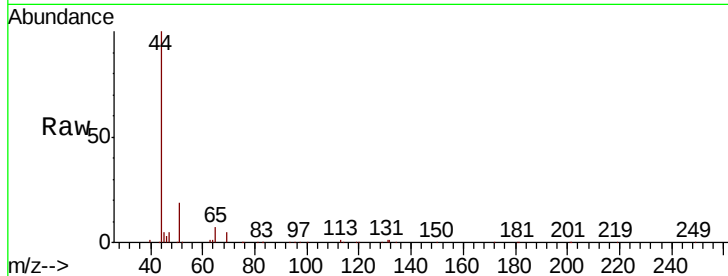
Acq: 12 Apr 2022 21:15 SVE-EFFLUENTDUP

Tot Ion: 51 Resp: 83372

Ion Ratio Lower Upper

51 100

67 8.6 13.4 20.0#



#4

Chloromethane

Concen: 0.319 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.01 min

Lab File: VL038900.D

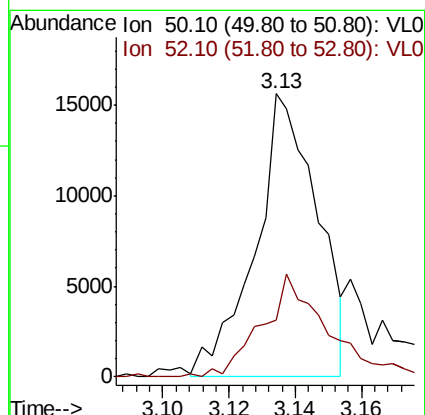
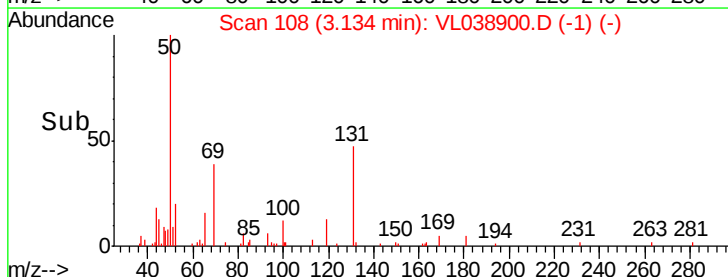
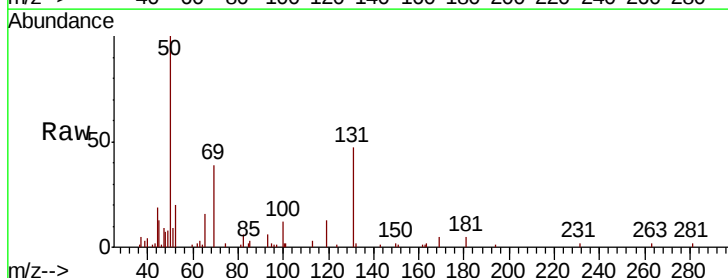
Acq: 12 Apr 2022 21:15

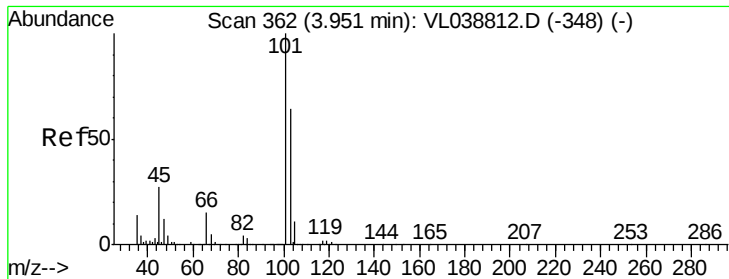
Tgt Ion: 50 Resp: 20279

Ion Ratio Lower Upper

50 100

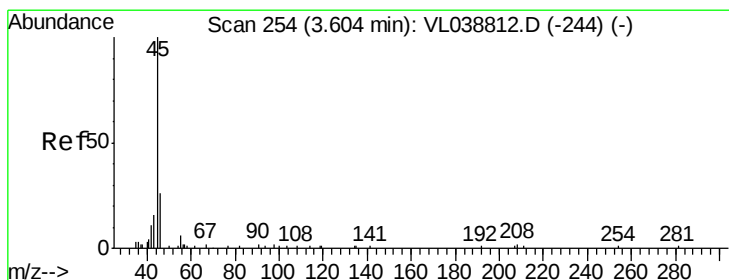
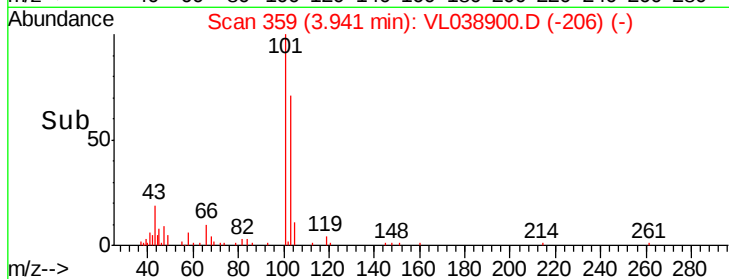
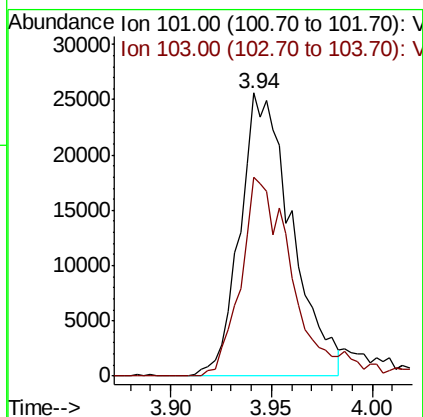
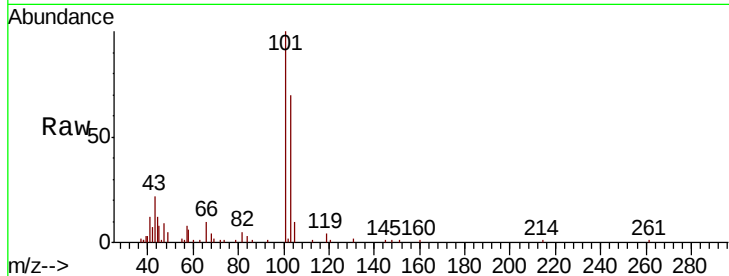
52 18.9 24.3 36.5#





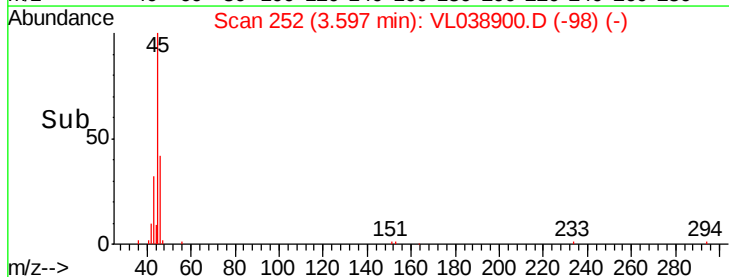
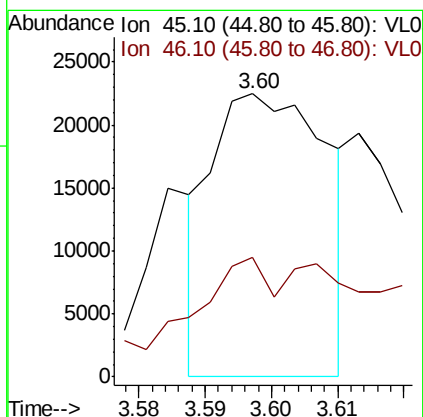
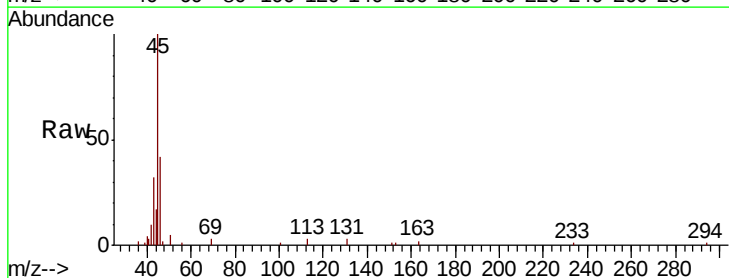
#11
 Trichlorofluoromethane
 Concen: 0.401 ppbv
 RT: 3.94
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 SVE-EFFLUENTDUP
 Acq: 12 Apr 2022 21:15

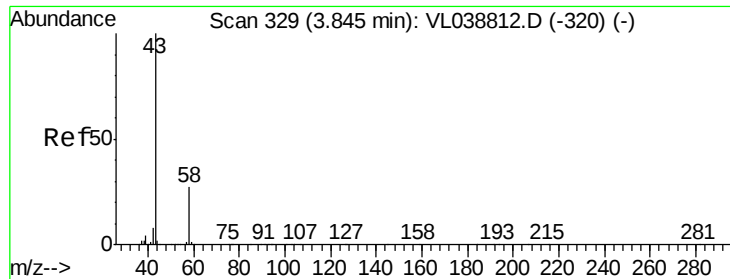
Tot Ion: 101 Resp: 45937
 Ion Ratio Lower Upper
 101 100
 103 70.1 51.4 77.0



#13
 Ethanol
 Concen: 6.848 ppbv
 RT: 3.60 min Scan# 252
 Delta R.T. -0.01 min
 Lab File: VL038900.D
 Acq: 12 Apr 2022 21:15

Tgt Ion: 45 Resp: 27023
 Ion Ratio Lower Upper
 45 100
 46 98.5 0.0 0.0#





#15

Acetone

Concen: 1.801 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

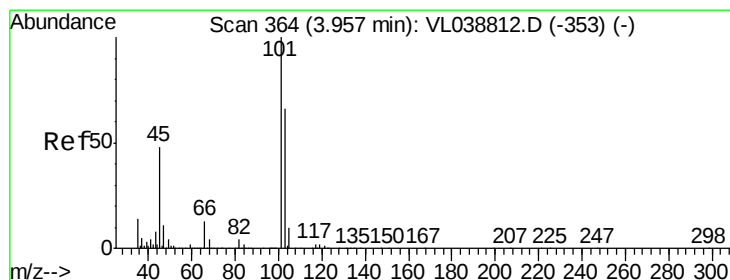
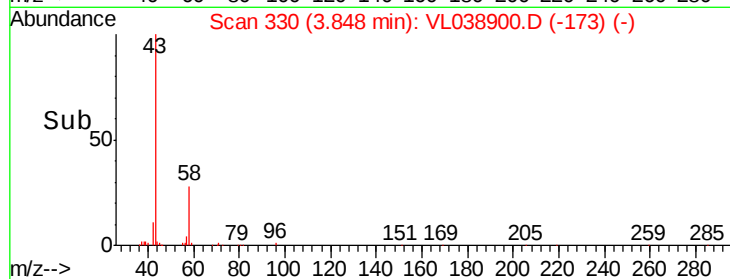
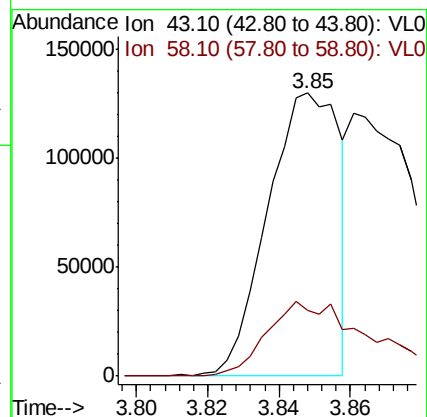
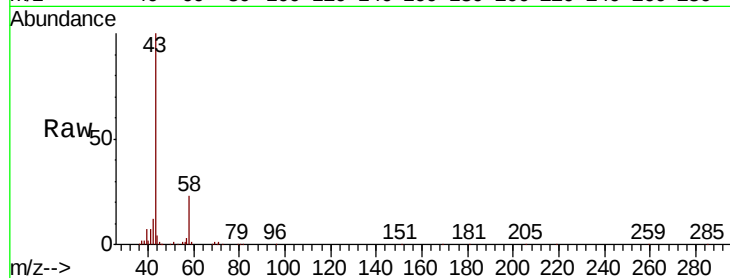
Acq: 12 Apr 2022 21:15 SVE-EFFLUENTDUP

Tot Ion: 43 Resp: 180363

Ion Ratio Lower Upper

43 100

58 43.9 22.5 33.7#



#19

Isopropyl Alcohol

Concen: 0.326 ppbv

RT: 3.97 min Scan# 367

Delta R.T. 0.01 min

Lab File: VL038900.D

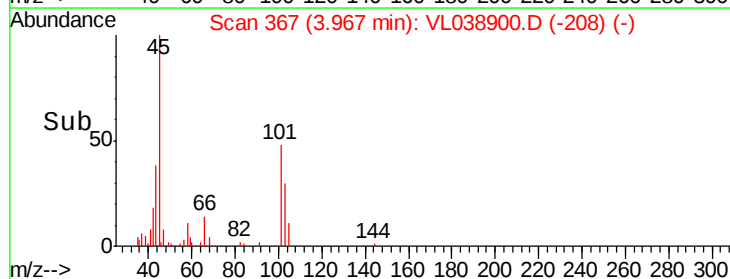
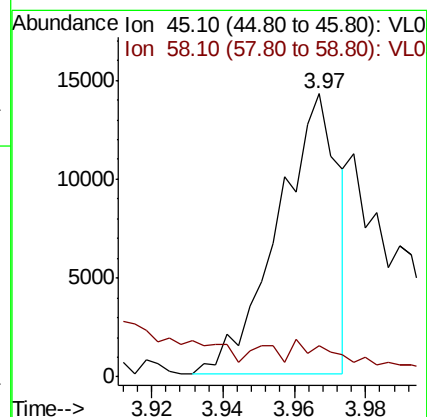
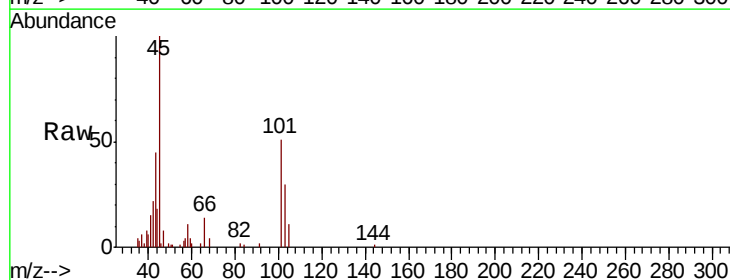
Acq: 12 Apr 2022 21:15

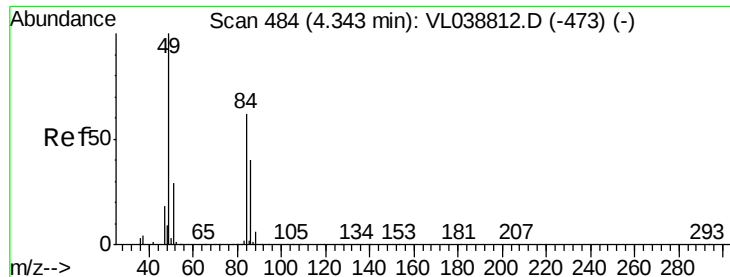
Tgt Ion: 45 Resp: 16706

Ion Ratio Lower Upper

45 100

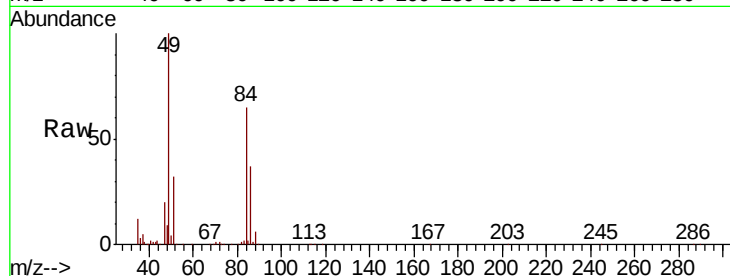
58 17.4 0.0 0.0#





#20
Methylene Chloride
Concen: 4.469 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
ClientSampleId:
Lab File: SVE-EFFLUENTDUP
Acq: 12 Apr 2022 21:15

Tot Ion:	84	Resp:	162277
Ion	Ratio	Lower	Upper
84	100		
49	152.9	129.4	194.0
51	48.8	37.4	56.2
86	55.5	51.4	77.2



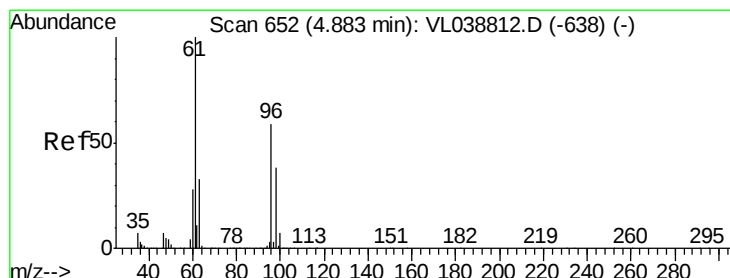
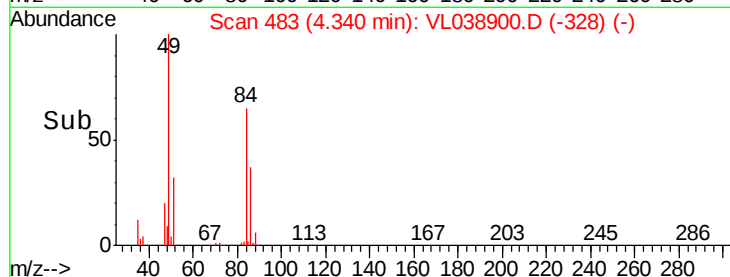
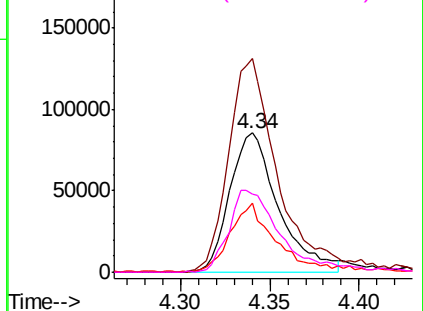
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

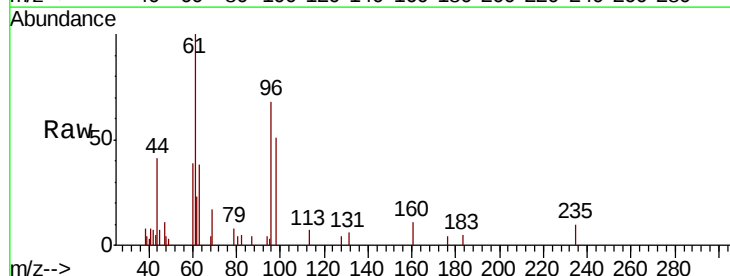
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#22
trans-1,2-Dichloroethene
Concen: 0.099 ppbv
RT: 4.88 min Scan# 652
Delta R.T.: 0.00 min
Lab File: VL038900.D
Acq: 12 Apr 2022 21:15

Tgt Ion:	96	Resp:	4018
Ion	Ratio	Lower	Upper
96	100		
61	181.6	134.8	202.2
98	75.0	51.9	77.9

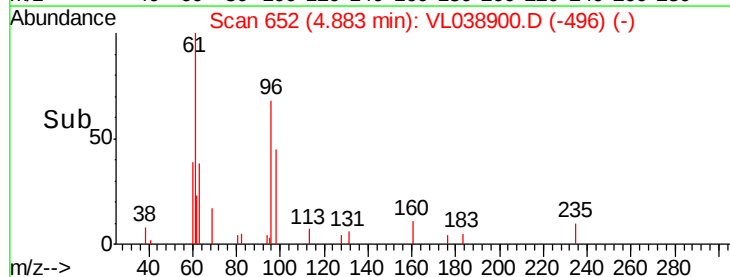
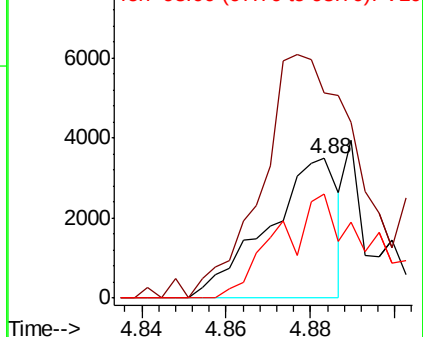


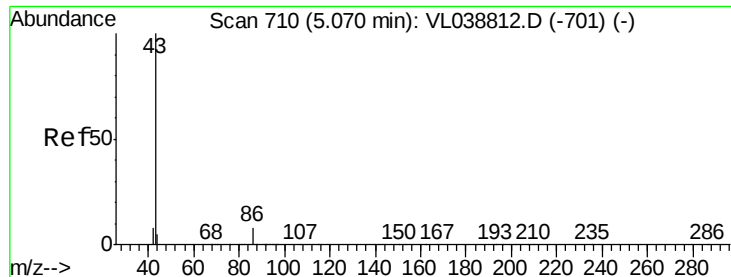
Abundance

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: 0.058 ppbv

RT: 5.07 Instrument: MSVOA_1

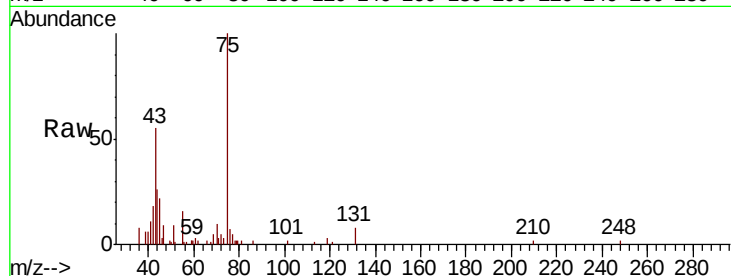
Delta R.T.

Lab File: ClientSampleId:

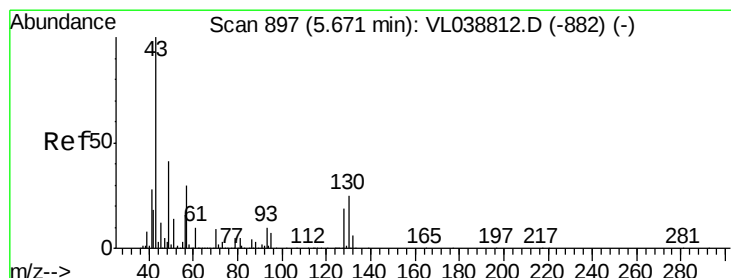
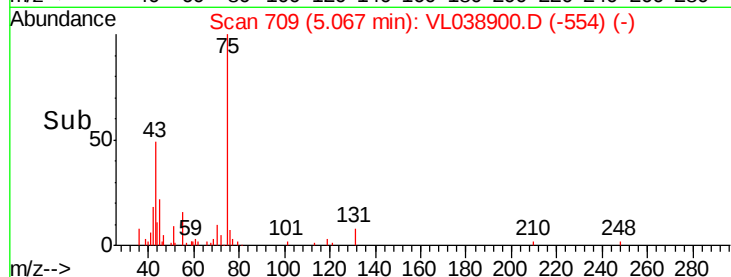
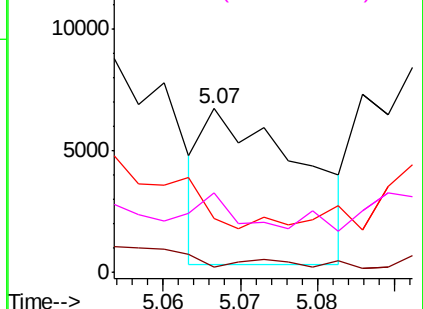
Acq: 12 Apr 2022 21:15 SVE-EFFLUENTDUP

Tot Ion: 43 Resp: 5611

Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.8	8.6#
42	0.0	7.8	11.6#
44	57.9	3.6	5.4#



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: 0.440 ppbv

RT: 5.68 min Scan# 900

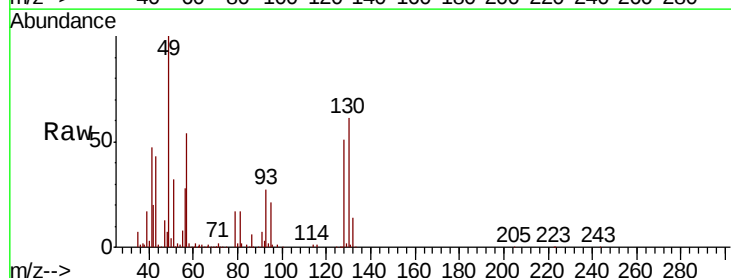
Delta R.T. 0.01 min

Lab File: VL038900.D

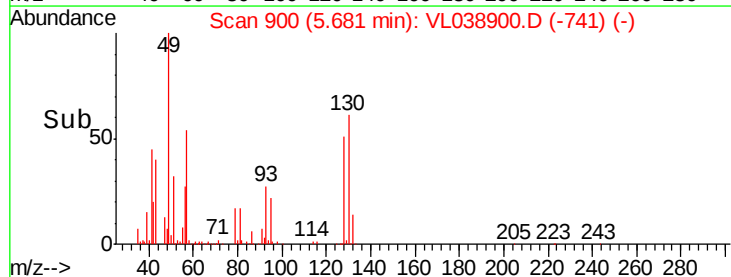
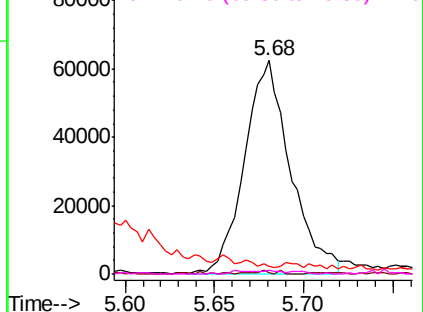
Acq: 12 Apr 2022 21:15

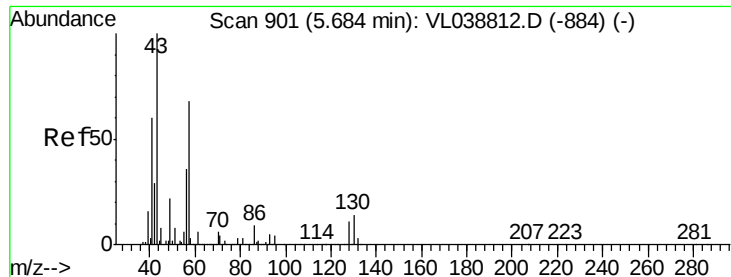
Tgt Ion: 43 Resp: 111889

Ion	Ratio	Lower	Upper
43	100		
45	1.6	8.4	12.6#
61	0.0	7.9	11.9#
70	2.0	5.6	8.4#



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: 1.363 ppbv

RT: 5.68

Delta R.T.

Lab File:

Acq: 12 Apr 2022 21:15

Instrument:

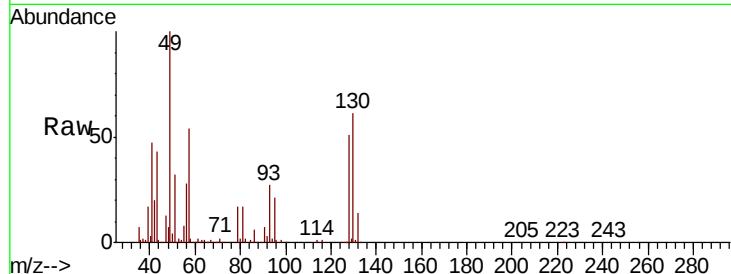
MSVOA_L

ClientSampleId:

SVE-EFFLUENTDUP

Tot Ion: 57 Resp: 157625

Ion	Ratio	Lower	Upper
57	100		
41	93.3	72.0	108.0
43	74.8	186.6	280.0#
56	52.4	42.8	64.2



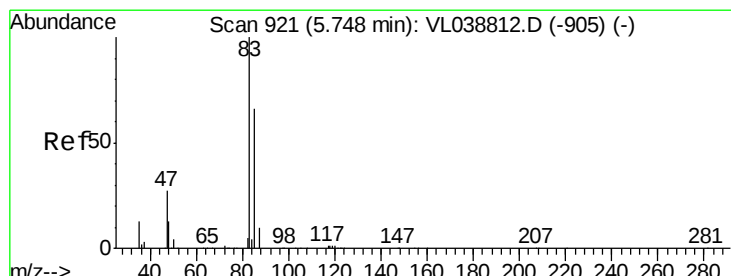
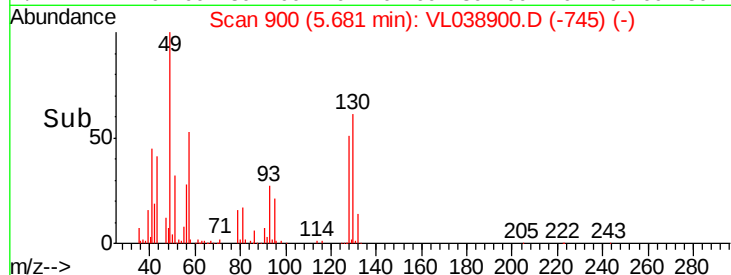
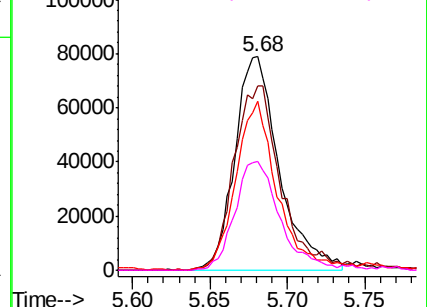
Abundance

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: 0.488 ppbv

RT: 5.74 min Scan# 920

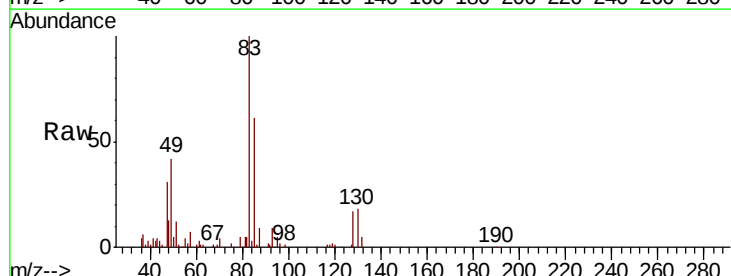
Delta R.T. -0.00 min

Lab File: VL038900.D

Acq: 12 Apr 2022 21:15

Tgt Ion: 83 Resp: 78922

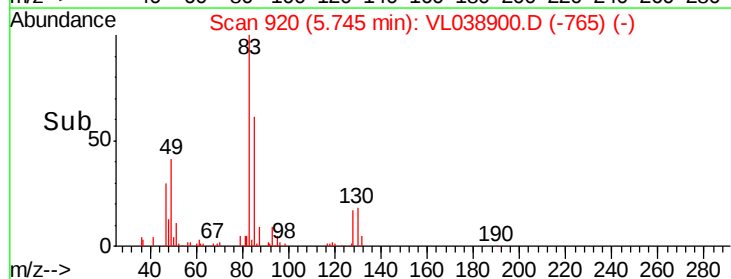
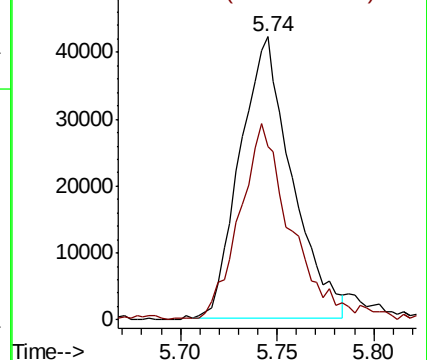
Ion	Ratio	Lower	Upper
83	100		
85	60.6	52.5	78.7

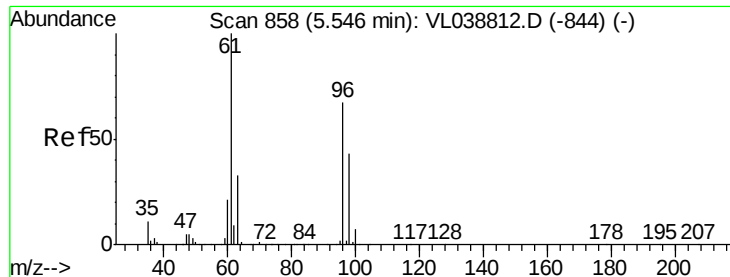


Abundance

Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





#31

cis-1,2-Dichloroethene

Concen: 4.827 ppbv

RT: 5.54 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 21:15 SVE-EFFLUENTDUP

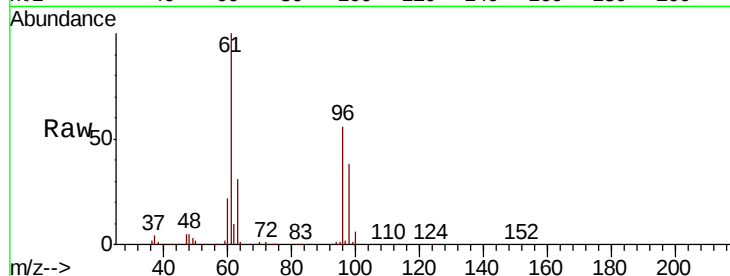
Tot Ion: 61 Resp: 513246

Ion Ratio Lower Upper

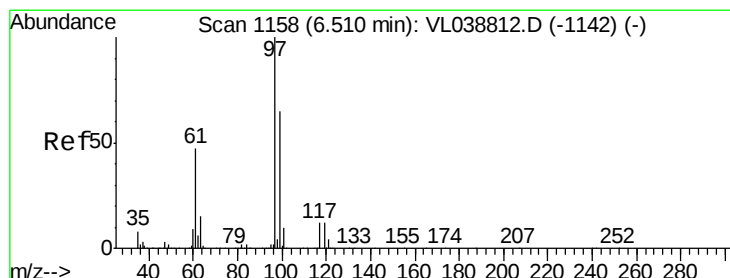
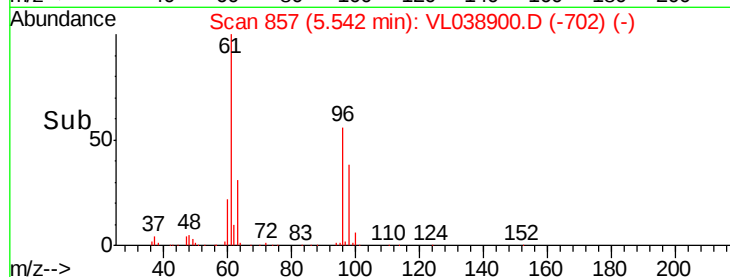
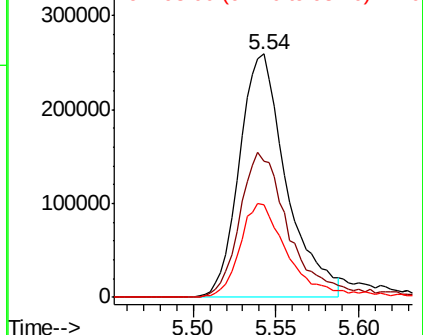
61 100

96 55.8 53.4 80.0

98 38.2 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: 0.929 ppbv

RT: 6.50 min Scan# 1156

Delta R.T. -0.01 min

Lab File: VL038900.D

Acq: 12 Apr 2022 21:15

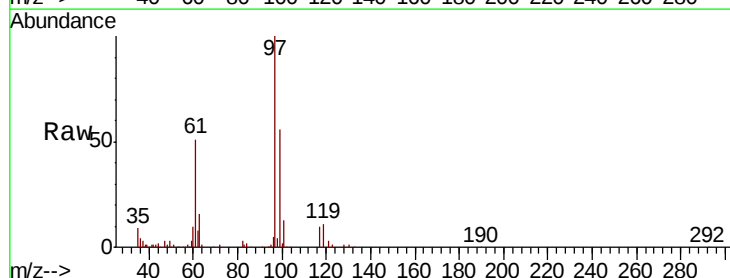
Tgt Ion: 97 Resp: 151372

Ion Ratio Lower Upper

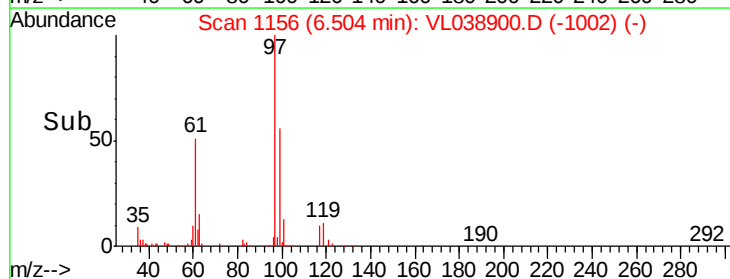
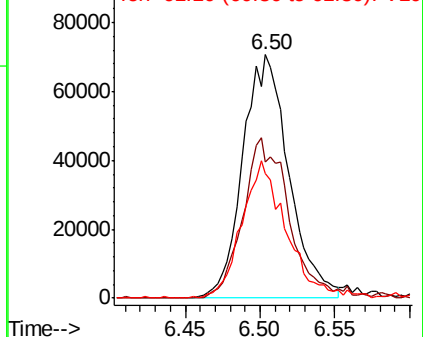
97 100

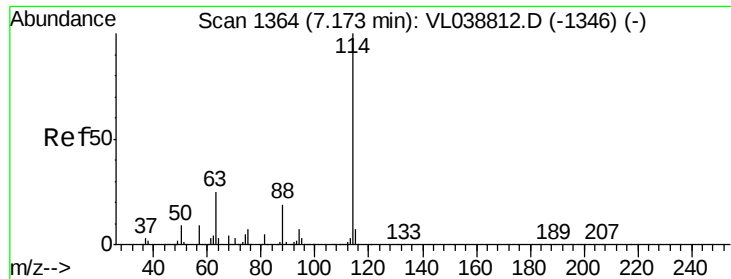
99 67.0 52.4 78.6

61 55.2 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: 7.16

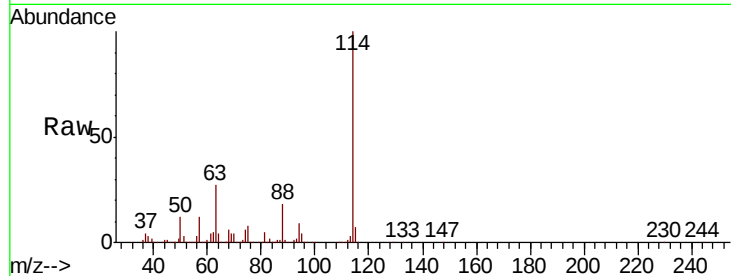
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 21:15

Tot Ion:114 Resp: 2389174

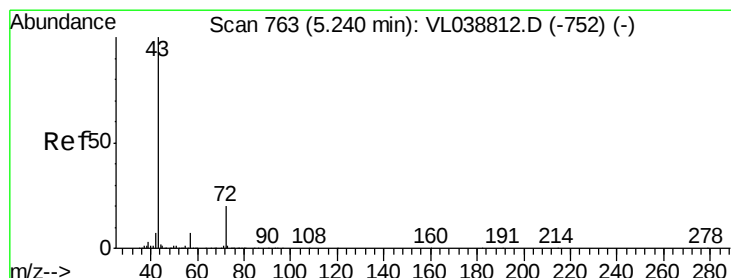
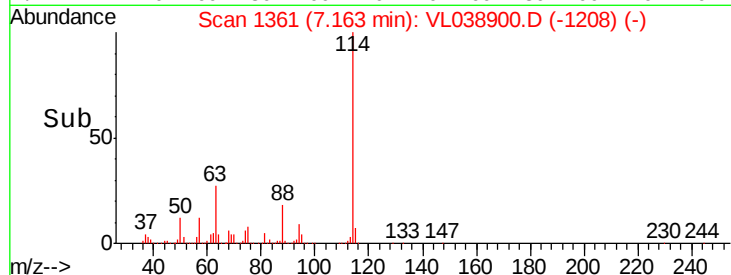
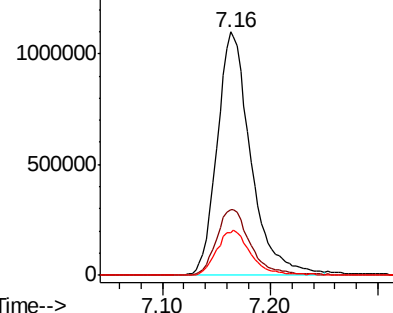
Ion	Ratio	Lower	Upper
114	100		
63	28.0	19.8	29.8
88	19.2	14.2	21.4



Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 0.516 ppbv

RT: 5.24 min Scan# 764

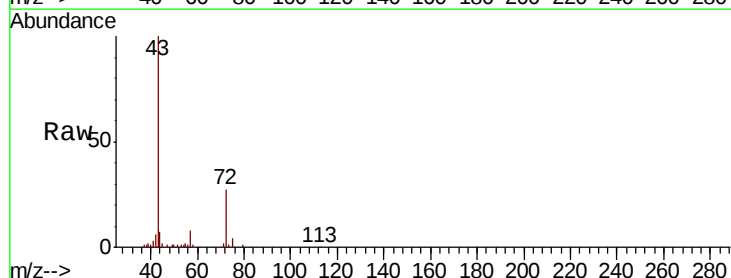
Delta R.T. 0.00 min

Lab File: VL038900.D

Acq: 12 Apr 2022 21:15

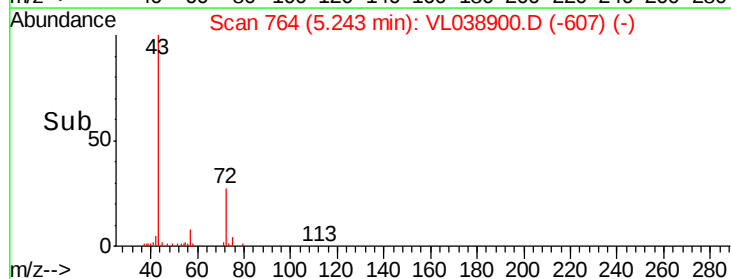
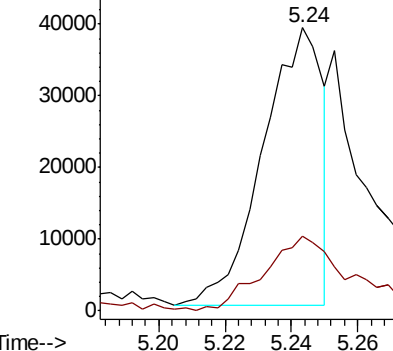
Tgt Ion: 43 Resp: 48737

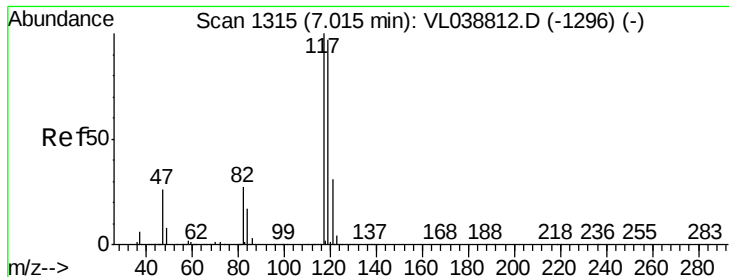
Ion	Ratio	Lower	Upper
43	100		
72	44.2	16.9	25.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#35

Carbon Tetrachloride

Concen: 0.060 ppbv

RT: 7.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 21:15 SVE-EFFLUENTDUP

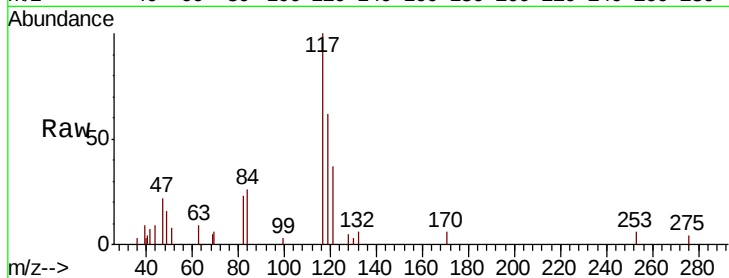
Tot Ion:117 Resp: 8560

Ion Ratio Lower Upper

117 100

119 62.4 77.7 116.5#

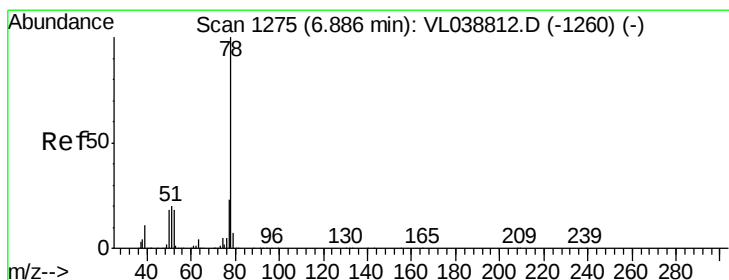
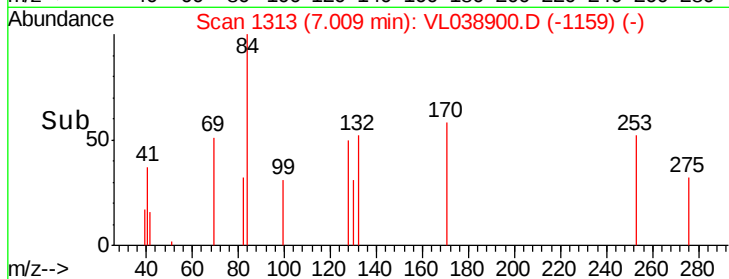
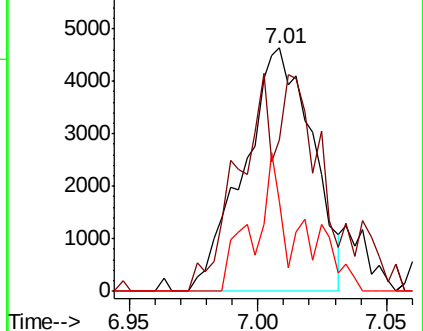
121 37.0 24.5 36.7#



Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.116 ppbv

RT: 6.88 min Scan# 1273

Delta R.T. -0.01 min

Lab File: VL038900.D

Acq: 12 Apr 2022 21:15

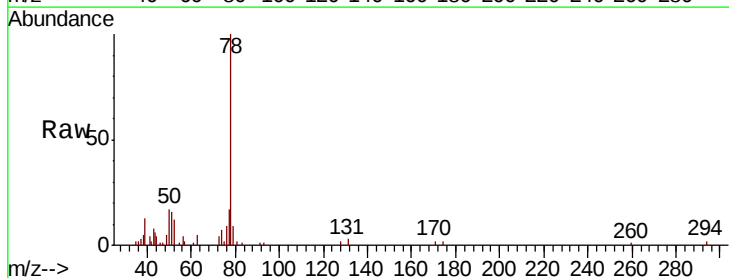
Tgt Ion: 78 Resp: 25310

Ion Ratio Lower Upper

78 100

77 16.8 18.2 27.2#

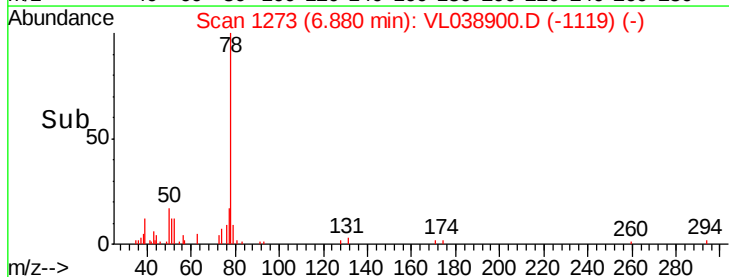
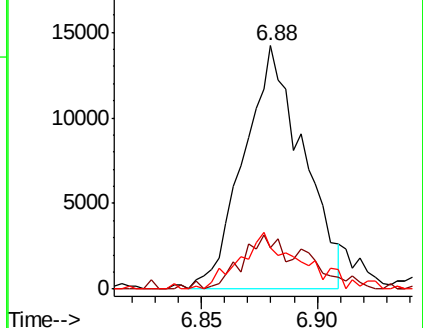
50 16.9 14.0 21.0

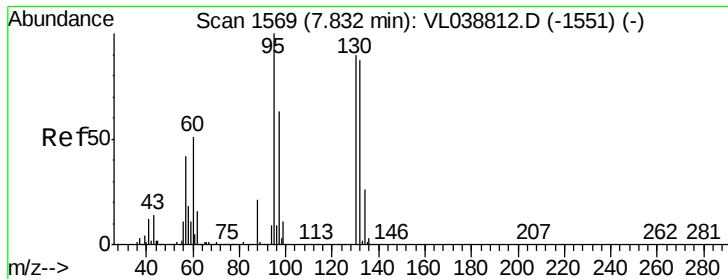


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#38

Trichloroethene

Concen: 0.142 ppbv

RT: 7.82 Instrument:

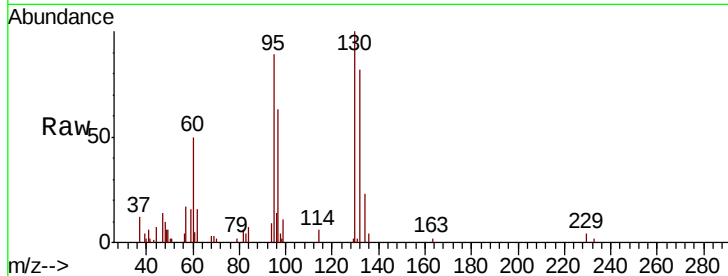
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 12 Apr 2022 21:15 SVE-EFFLUENTDUP

Tot Ion:130 Resp: 12652

Ion	Ratio	Lower	Upper
130	100		
95	85.7	89.4	134.0#
132	80.9	77.7	116.5
97	62.4	56.0	84.0

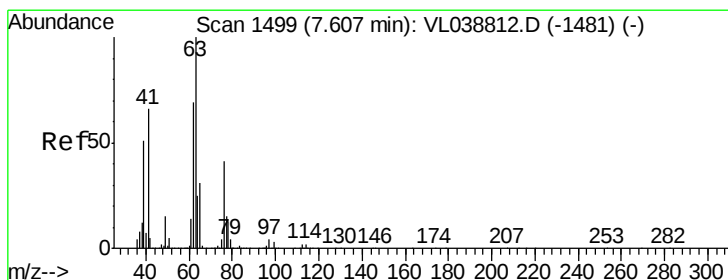
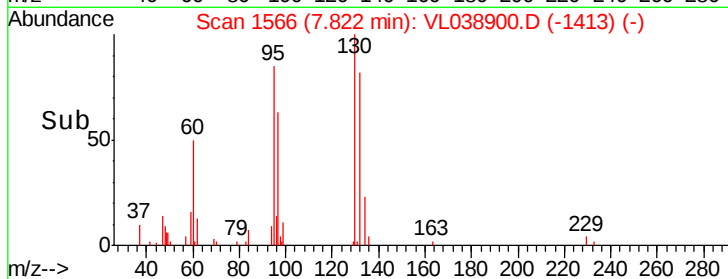
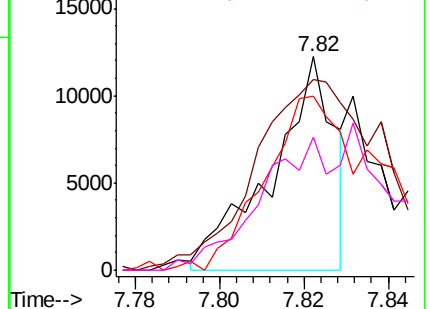


Abundance Ion 130.00 (129.70 to 130.70): V

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: 7.828 ppbv

RT: 7.17 min Scan# 1362

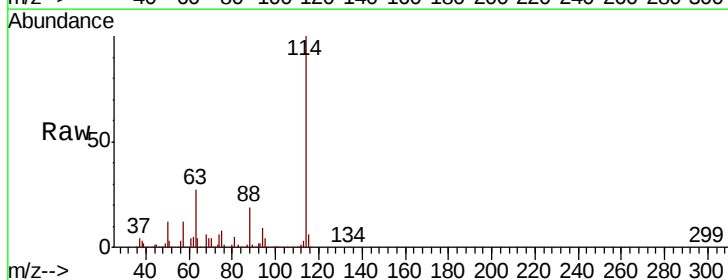
Delta R.T. -0.44 min

Lab File: VL038900.D

Acq: 12 Apr 2022 21:15

Tgt Ion: 63 Resp: 650752

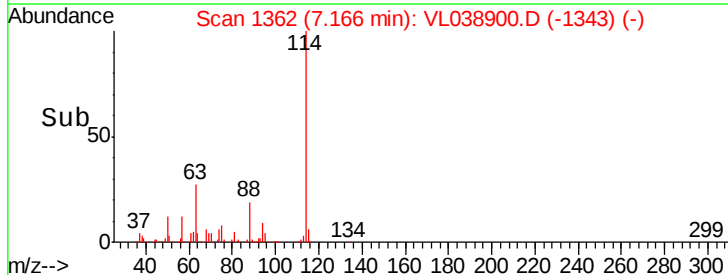
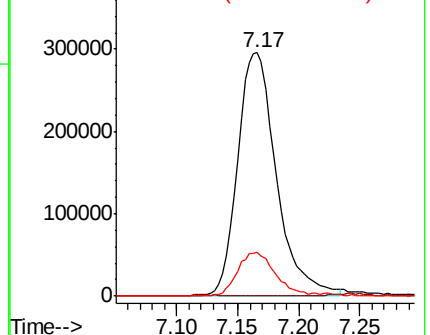
Ion	Ratio	Lower	Upper
63	100		
41	0.0	53.0	79.6#
62	17.9	55.0	82.4#

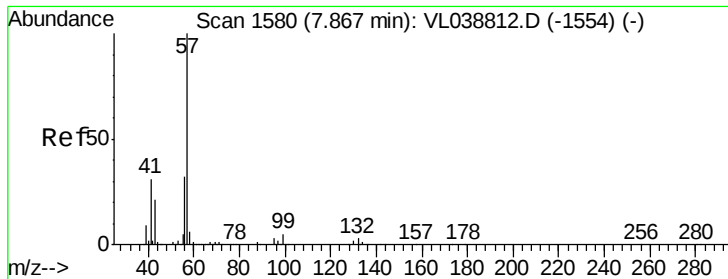


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

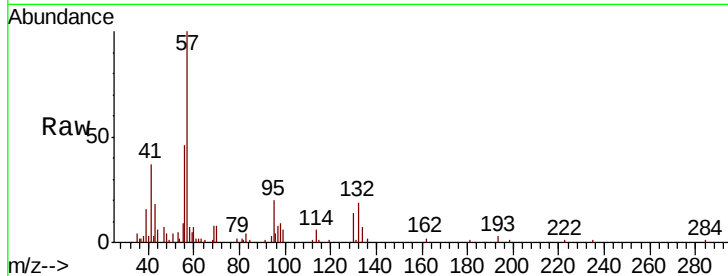
Ion 62.10 (61.80 to 62.80): VL0



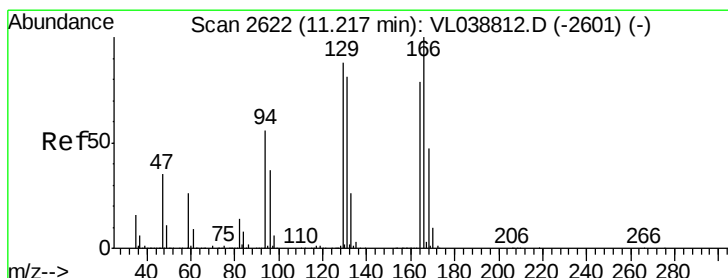
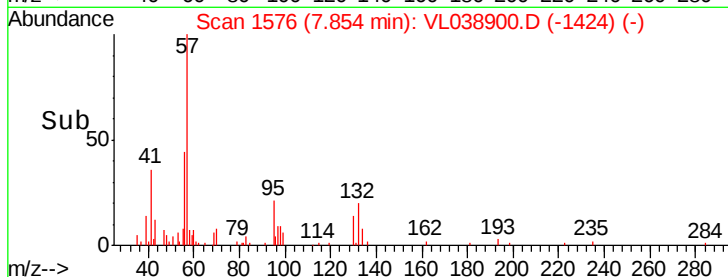
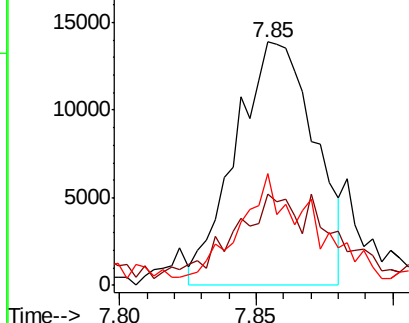


#44
 2,2,4-Trimethylpentane
 Concen: 0.076 ppbv
 RT: 7.85
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 12 Apr 2022 21:15

Tot Ion: 57 Resp: 27960
 Ion Ratio Lower Upper
 57 100
 41 0.0 25.0 37.4#
 56 49.6 25.3 37.9#

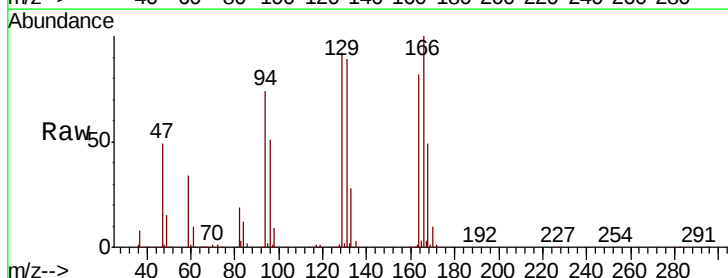


Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0

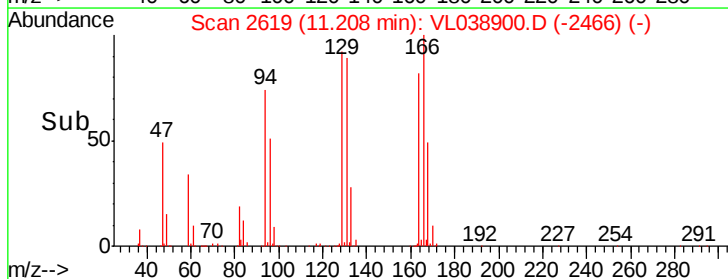
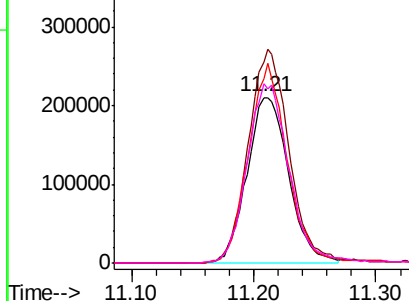


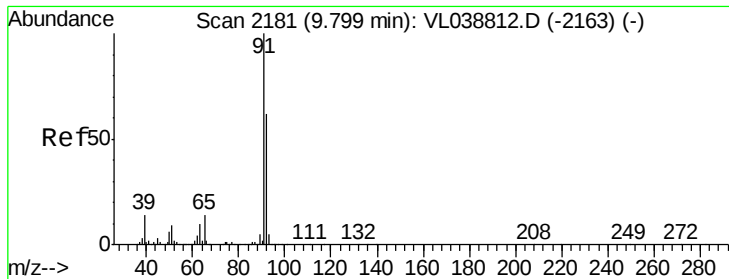
#52
 Tetrachloroethene
 Concen: 6.513 ppbv
 RT: 11.21 min Scan# 2619
 Delta R.T. -0.01 min
 Lab File: VL038900.D
 Acq: 12 Apr 2022 21:15

Tgt Ion:164 Resp: 494438
 Ion Ratio Lower Upper
 164 100
 166 121.6 101.0 151.6
 129 111.7 88.7 133.1
 131 108.1 81.8 122.6



Abundance Ion 163.90 (163.60 to 164.60): V
 Ion 165.90 (165.60 to 166.60): V
 Ion 129.00 (128.70 to 129.70): V
 Ion 131.00 (130.70 to 131.70): V





#53

Toluene

Concen: 0.208 ppbv

RT: 9.79 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

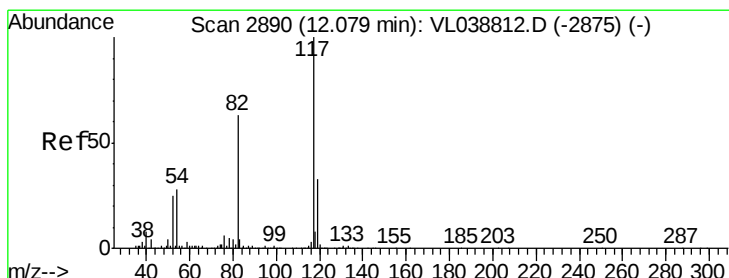
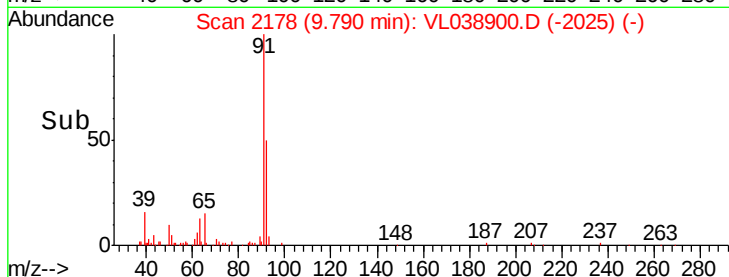
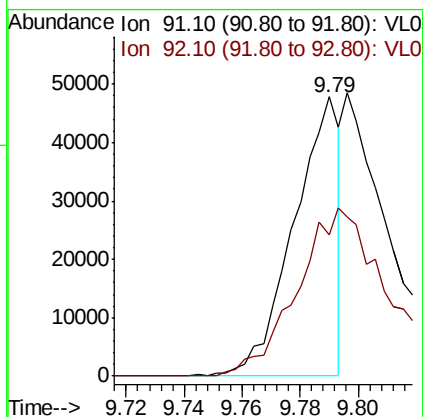
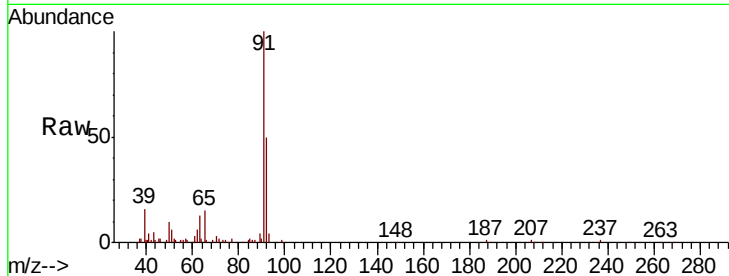
Acq: 12 Apr 2022 21:15 SVE-EFFLUENTDUP

Tot Ion: 91 Resp: 52210

Ion Ratio Lower Upper

91 100

92 0.0 49.2 73.8#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.01 min

Lab File: VL038900.D

Acq: 12 Apr 2022 21:15

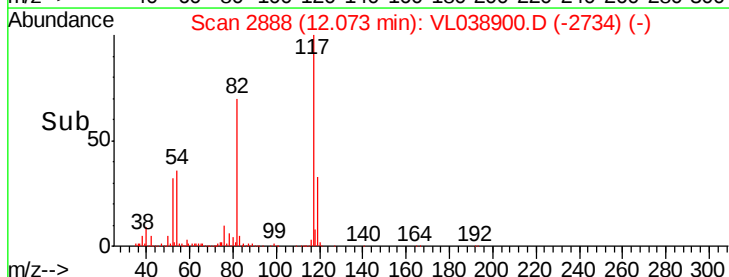
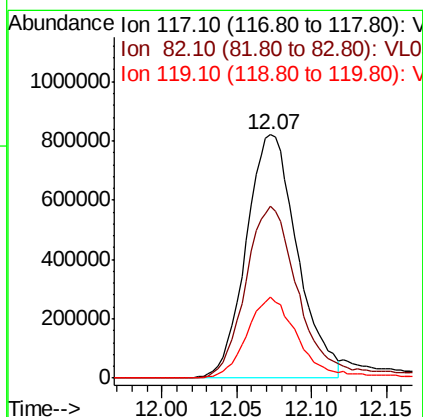
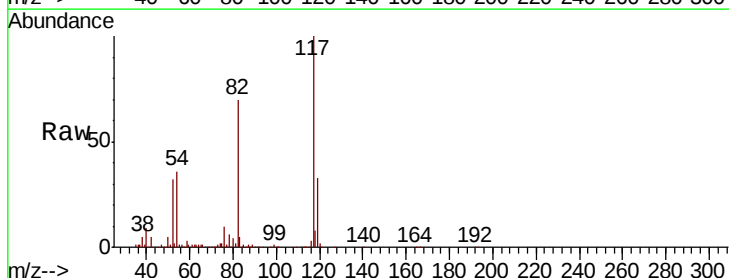
Tgt Ion: 117 Resp: 1943627

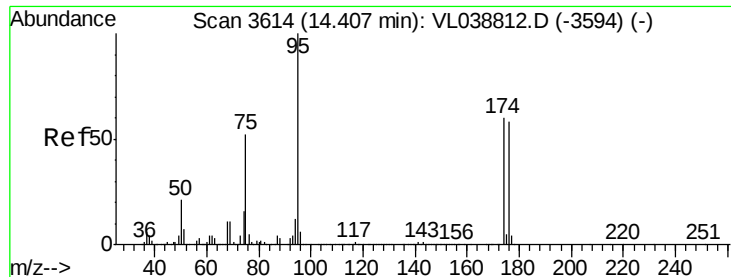
Ion Ratio Lower Upper

117 100

82 76.5 53.0 79.6

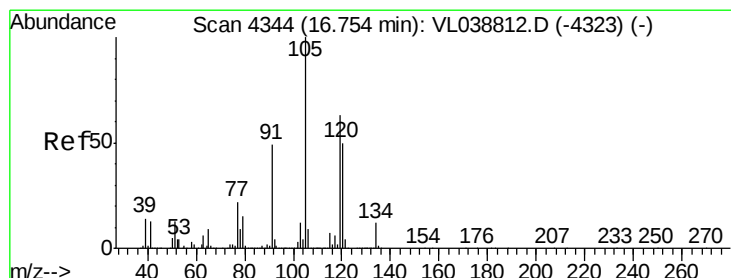
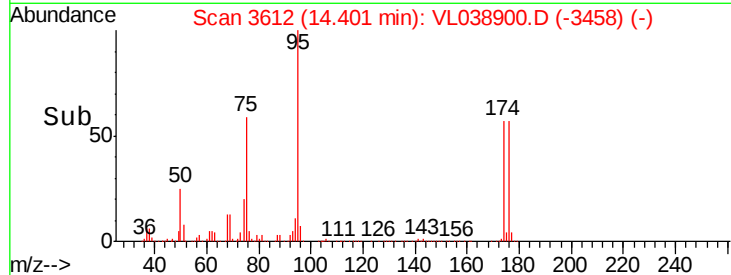
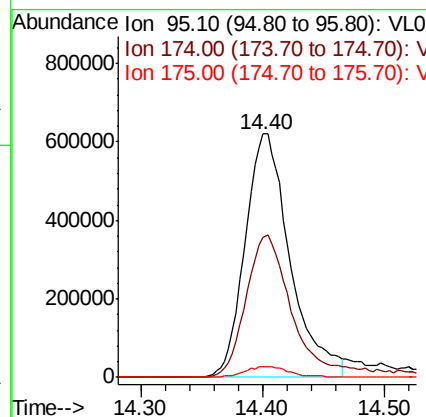
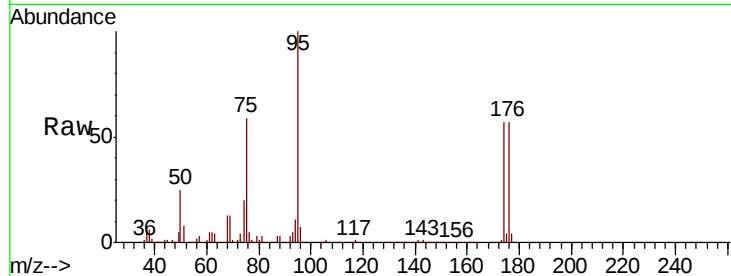
119 34.8 24.9 37.3





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.736 ppbv
 RT: 14.40 min
 Delta R.T.: 0.00 min
 Lab File: SVE-EFFLUENT.DUP
 Acq: 12 Apr 2022 21:15

Tot Ion: 95 Resp: 1582795
 Ion Ratio Lower Upper
 95 100
 174 64.4 52.0 78.0
 175 4.5 4.0 6.0



#74
 1,2,4-Trimethylbenzene
 Concen: 0.037 ppbv
 RT: 16.75 min Scan# 4343
 Delta R.T.: -0.00 min
 Lab File: VL038900.D
 Acq: 12 Apr 2022 21:15

Tgt Ion: 105 Resp: 9492
 Ion Ratio Lower Upper
 105 100
 120 36.1 39.8 59.8#
 91 9.2 39.4 59.0#
 77 10.4 17.3 25.9#

