

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040722\
 Data File : VL038839.D
 Acq On : 7 Apr 2022 13:37
 Operator : SY/AP
 Sample : N2245-01
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 BD-INDOOR

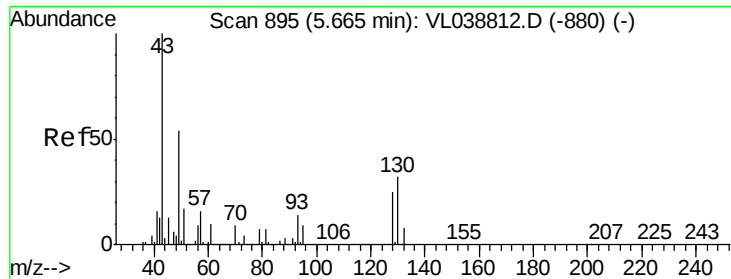
Quant Time: Apr 08 05:23:03 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL040522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Apr 06 06:12:53 2022
 QLast Update : Wed Apr 06 06:12:53 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1275417	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.19	114	3281965	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.10	117	2869690	10.00	ppbv	0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2167131	9.96	ppbv	0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.07	85	53097	0.294	ppbv 97
3) Chlorodifluoromethane	3.00	51	84305	0.542	ppbv # 92
4) Chloromethane	3.16	50	39405	0.489	ppbv # 89
9) Propene	3.22	41	132799	1.613	ppbv 95
10) Heptane	8.14	43	7154	0.034	ppbv # 1
11) Trichlorofluoromethane	3.97	101	16913	0.116	ppbv 92
12) 1,1,2-Trichlorotrifluoroet	4.50	101	4904	0.044	ppbv # 38
13) Ethanol	3.62	45	218917	43.742	ppbv # 100
15) Acetone	3.87	43	592999	4.670	ppbv 95
16) 1,3-Butadiene	3.33	39	4035	0.056	ppbv # 63
19) Isopropyl Alcohol	4.00	45	25147	0.387	ppbv # 100
20) Methylene Chloride	4.36	84	3898956	84.665	ppbv 93
21) Allyl Chloride	4.41	41	3467	0.036	ppbv # 38
23) Vinyl Acetate	5.09	43	5069	0.041	ppbv # 1
25) Ethyl Acetate	5.70	43	2491221	7.732	ppbv # 76
26) Hexane	5.71	57	3576275	24.386	ppbv # 39
30) Cyclohexane	7.14	84	10002	0.077	ppbv # 1
34) 2-Butanone	5.27	43	31149	0.240	ppbv # 91
35) Carbon Tetrachloride	7.03	117	7826	0.040	ppbv # 72
36) Benzene	6.91	78	47564	0.159	ppbv 96
39) 1,2-Dichloropropane	7.19	63	842488	7.377	ppbv # 27
41) Tetrahydrofuran	5.77	42	23115	0.188	ppbv # 38
44) 2,2,4-Trimethylpentane	7.89	57	74716	0.148	ppbv # 88
53) Toluene	9.82	91	126334	0.367	ppbv 99
60) o-Xylene	13.71	91	11390	0.034	ppbv # 16
72) 4-Ethyltoluene	15.85	105	12127	0.030	ppbv # 55
74) 1,2,4-Trimethylbenzene	16.78	105	37443	0.098	ppbv # 73

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_L

Delta R.T.

Lab File: ClientSampleId:

Acq: 7 Apr 2022 13:37 BD-INDOOR

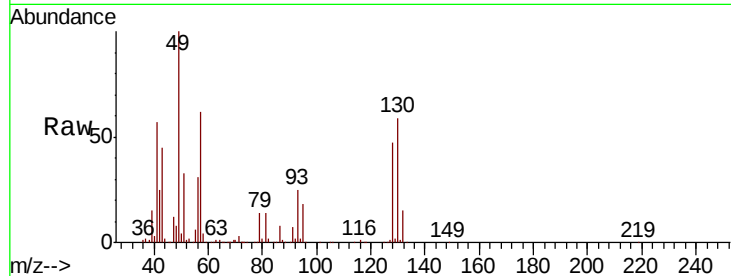
Tot Ion: 49 Resp: 1275417

Ion Ratio Lower Upper

49 100

128 45.4 24.1 72.3

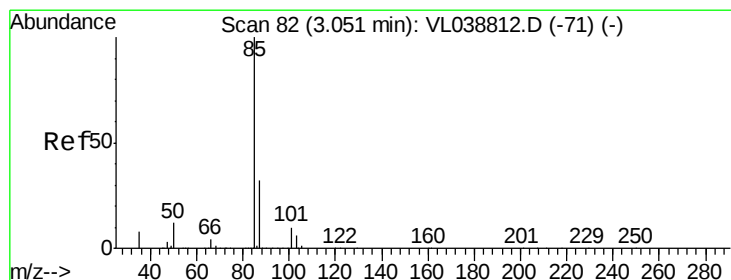
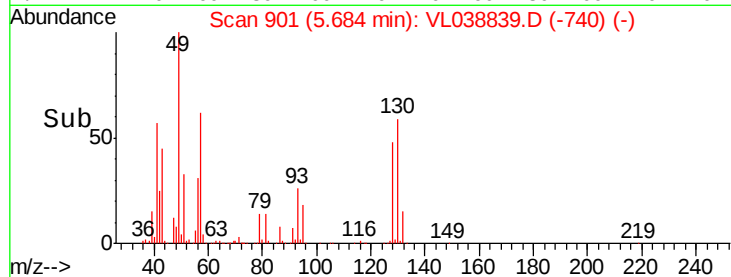
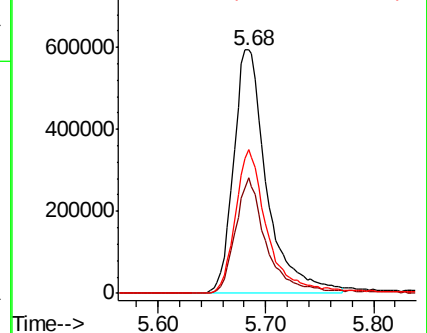
130 58.5 30.9 92.8



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



#2

Dichlorodifluoromethane

Concen: 0.294 ppbv

RT: 3.07 min Scan# 87

Delta R.T. 0.02 min

Lab File: VL038839.D

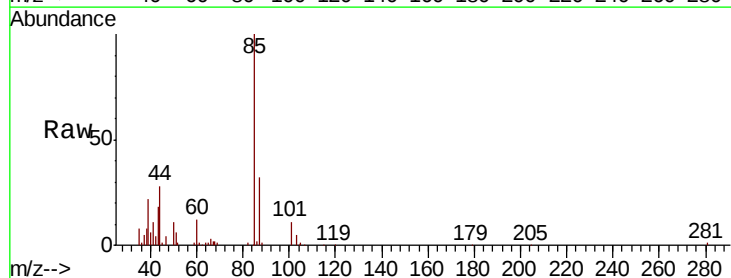
Acq: 7 Apr 2022 13:37

Tgt Ion: 85 Resp: 53097

Ion Ratio Lower Upper

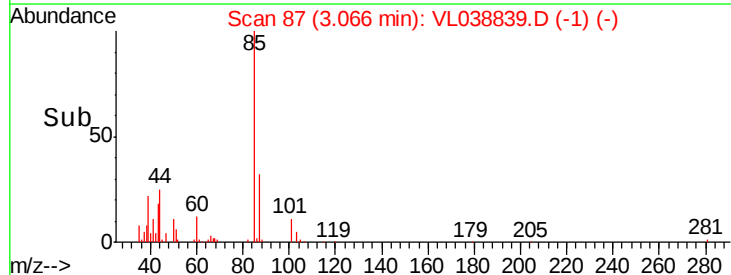
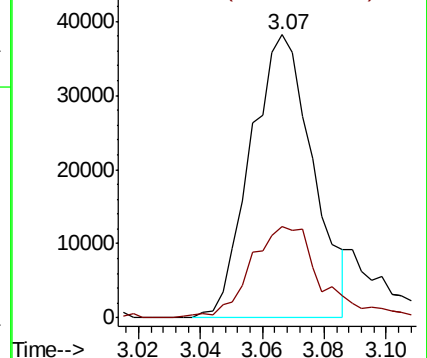
85 100

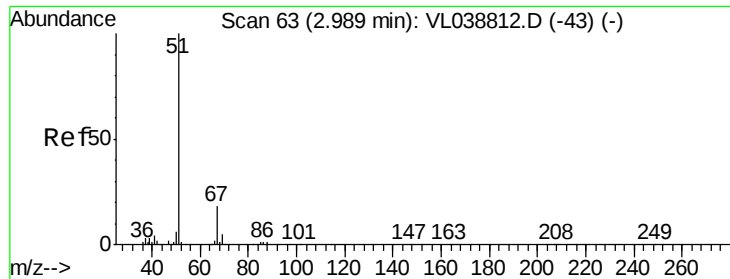
87 30.9 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

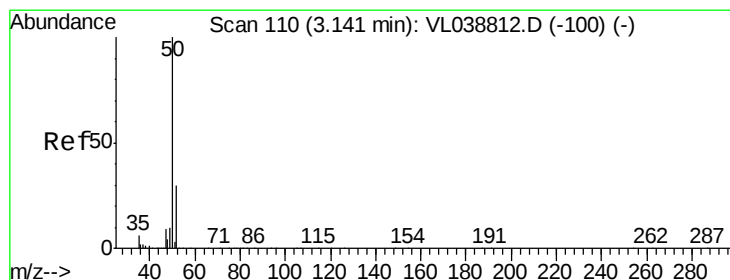
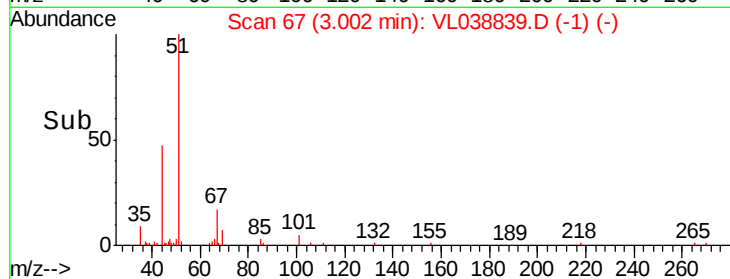
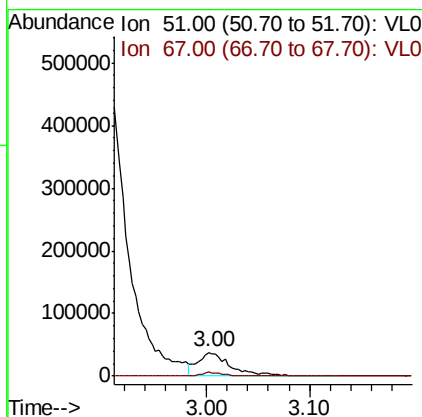
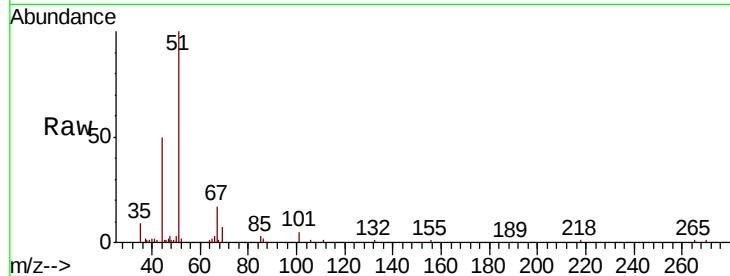
Ion 87.00 (86.70 to 87.70): VL0





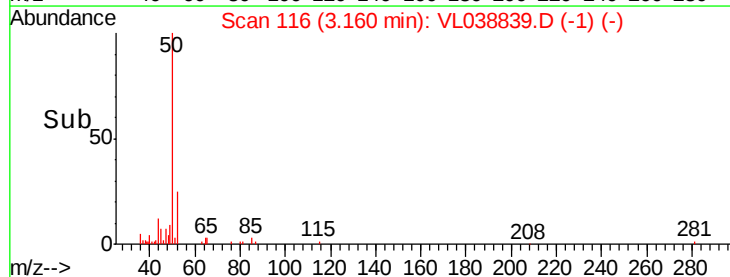
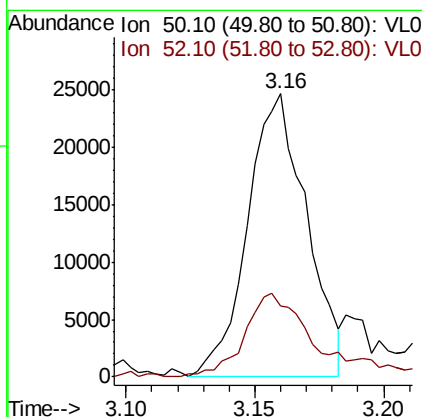
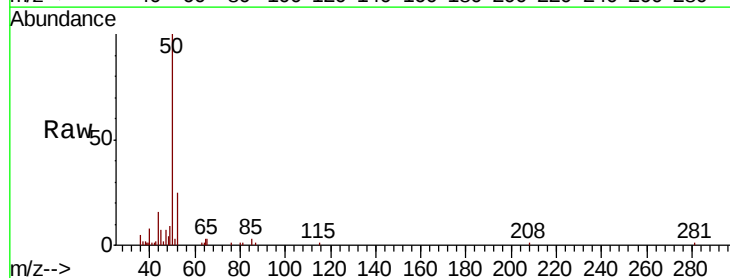
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 Chlorodifluoromethane
 Concen: 0.542 ppbv
 RT: 3.00
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 13:37

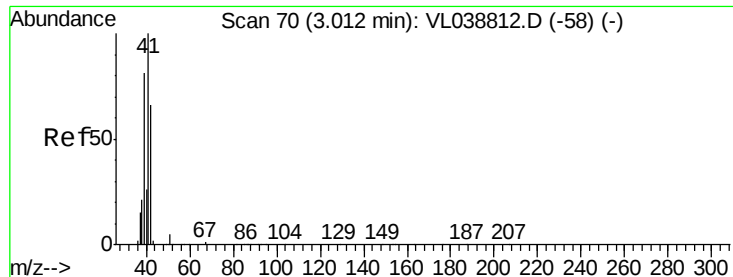
Tot Ion: 51 Resp: 84305
 Ion Ratio Lower Upper
 51 100
 67 13.1 13.4 20.0#



#4
 Chloromethane
 Concen: 0.489 ppbv
 RT: 3.16 min Scan# 116
 Delta R.T. 0.02 min
 Lab File: VL038839.D
 Acq: 7 Apr 2022 13:37

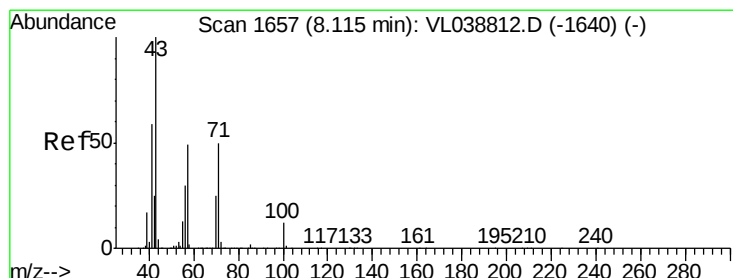
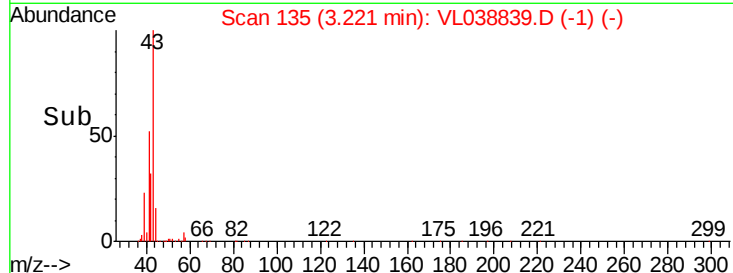
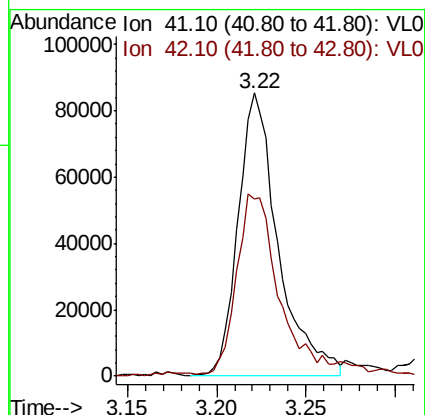
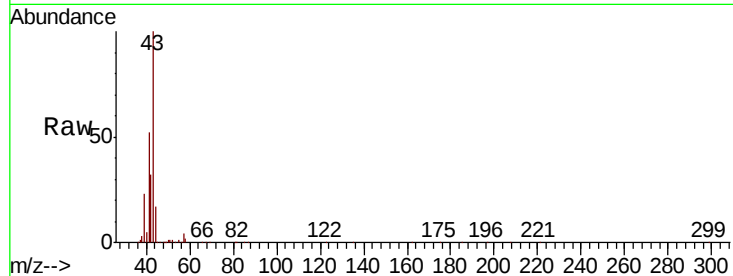
Tgt Ion: 50 Resp: 39405
 Ion Ratio Lower Upper
 50 100
 52 24.3 24.3 36.5#





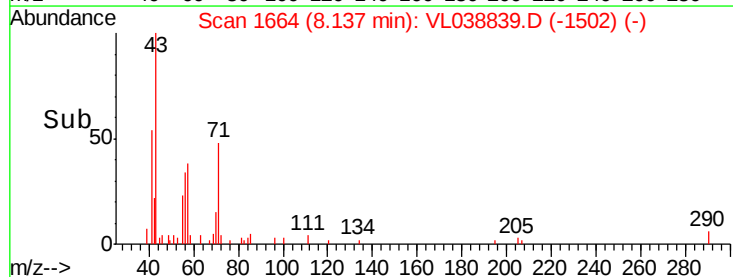
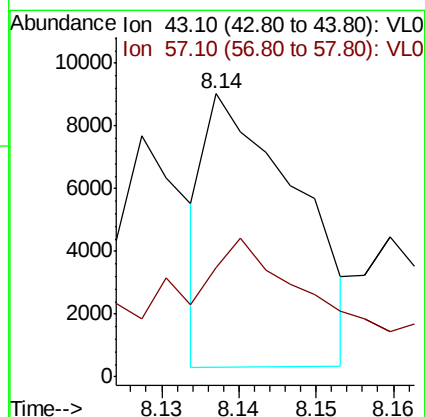
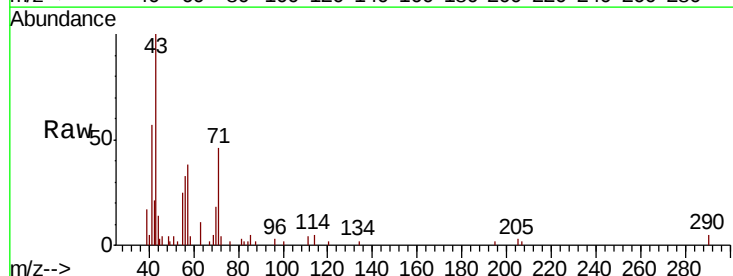
#9
 Propene
 Concen: 1.613 ppbv
 RT: 3.22
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 13:37

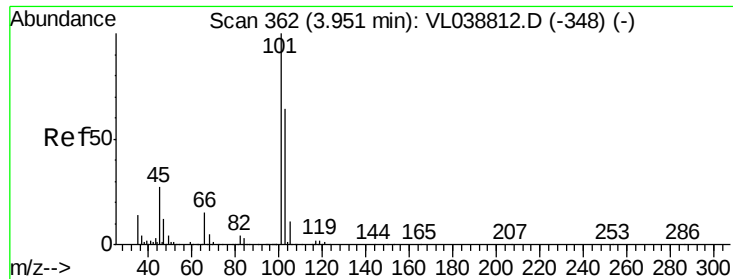
Tot Ion: 41 Resp: 132799
 Ion Ratio Lower Upper
 41 100
 42 71.7 54.2 81.4



#10
 Heptane
 Concen: 0.034 ppbv
 RT: 8.14 min Scan# 1664
 Delta R.T. 0.02 min
 Lab File: VL038839.D
 Acq: 7 Apr 2022 13:37

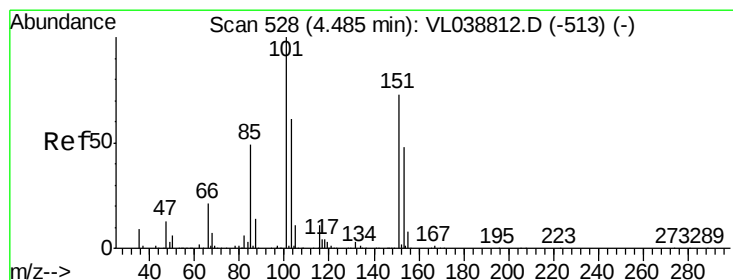
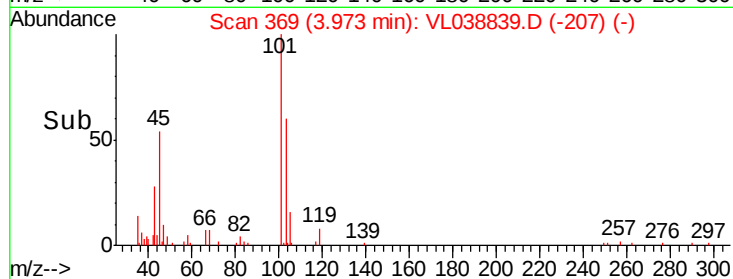
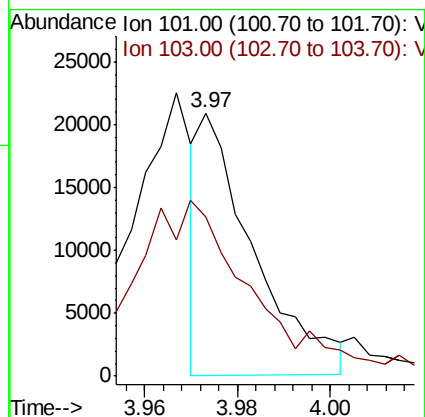
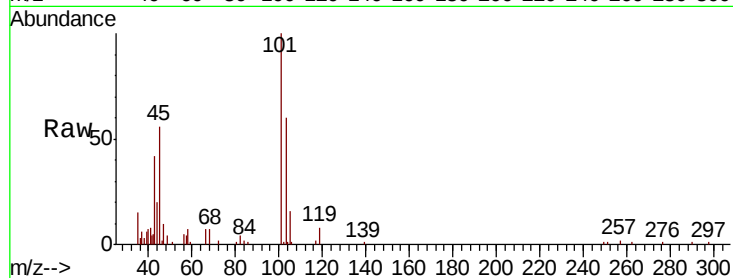
Tgt Ion: 43 Resp: 7154
 Ion Ratio Lower Upper
 43 100
 57 126.0 39.3 58.9#





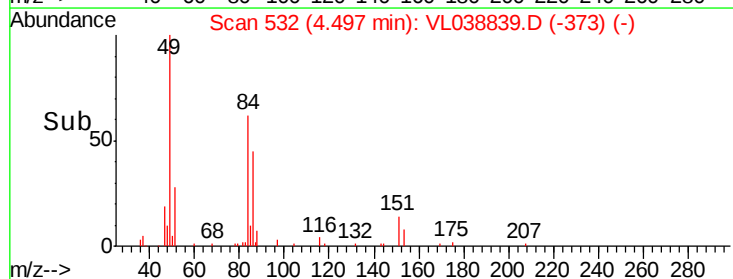
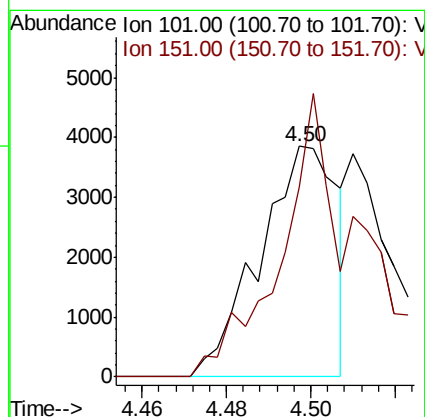
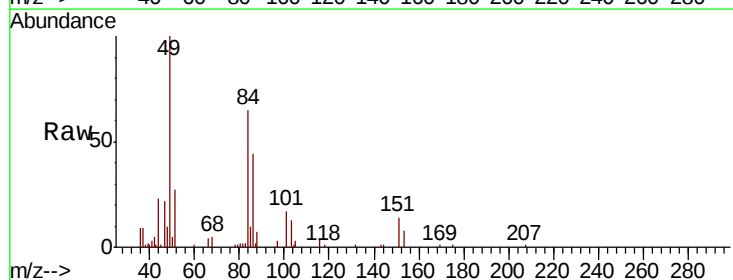
#11
 Trichlorofluoromethane
 Concen: 0.116 ppbv
 RT: 3.97
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 13:37

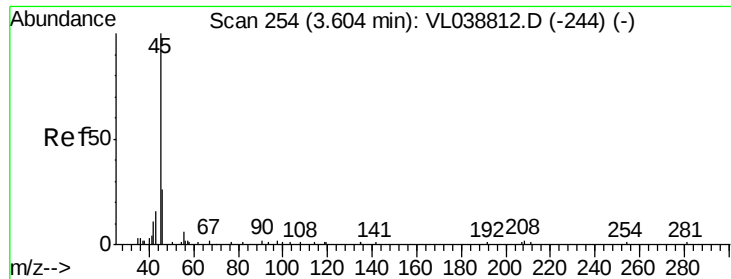
Tot Ion:101 Resp: 16913
 Ion Ratio Lower Upper
 101 100
 103 57.9 51.4 77.0



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.044 ppbv
 RT: 4.50 min Scan# 532
 Delta R.T. 0.01 min
 Lab File: VL038839.D
 Acq: 7 Apr 2022 13:37

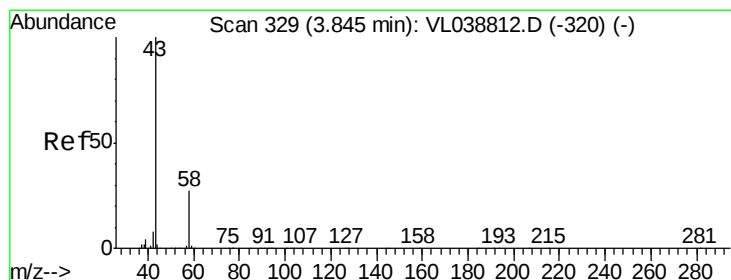
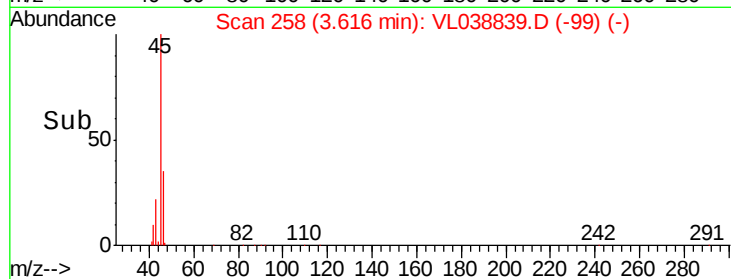
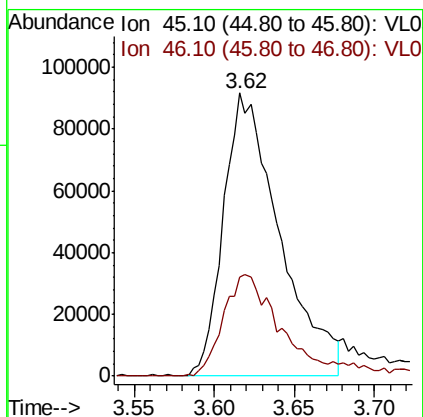
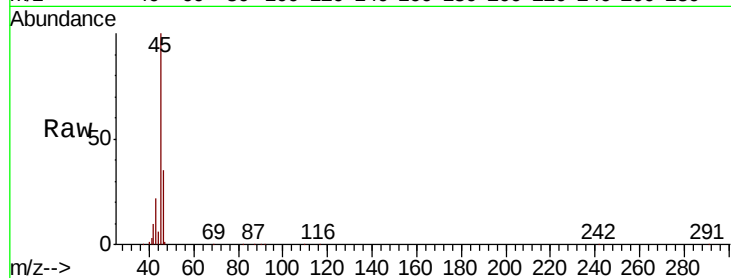
Tgt Ion:101 Resp: 4904
 Ion Ratio Lower Upper
 101 100
 151 128.1 59.9 89.9#





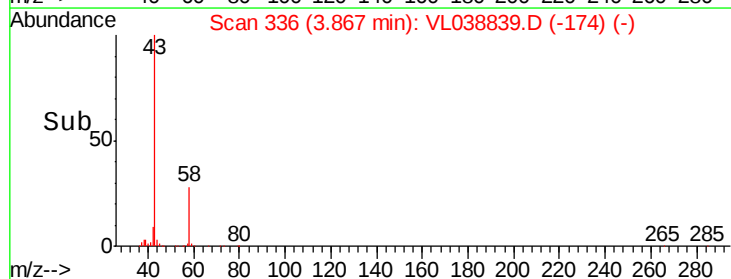
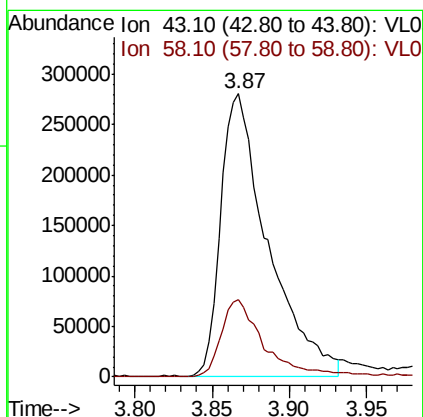
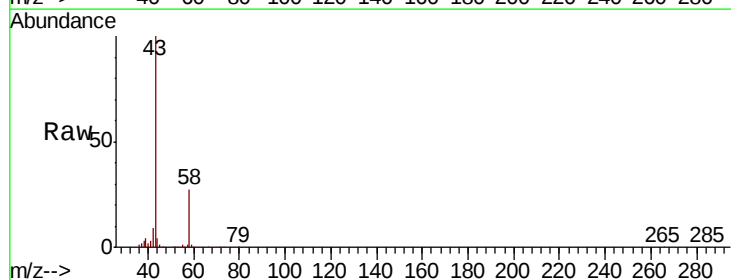
#13
 Ethanol
 Concen: 43.742 ppbv
 RT: 3.62
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 13:37

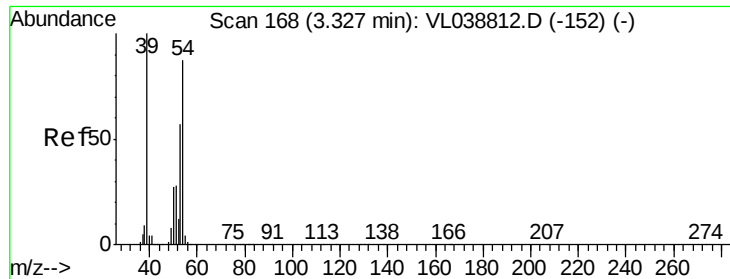
Tot Ion: 45 Resp: 218917
 Ion Ratio Lower Upper
 45 100
 46 40.4 0.0 0.0#



#15
 Acetone
 Concen: 4.670 ppbv
 RT: 3.87 min Scan# 336
 Delta R.T. 0.02 min
 Lab File: VL038839.D
 Acq: 7 Apr 2022 13:37

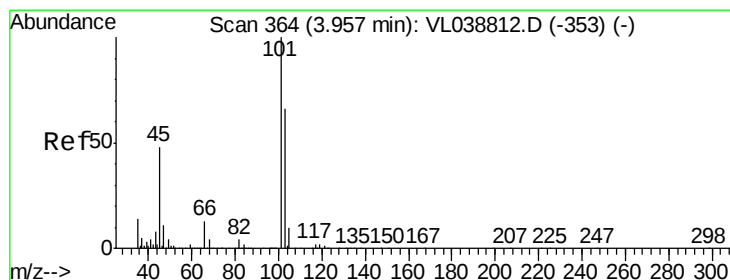
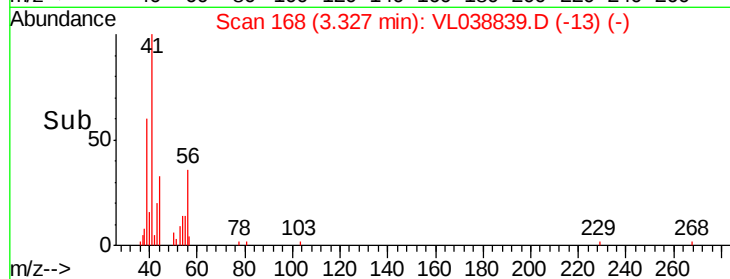
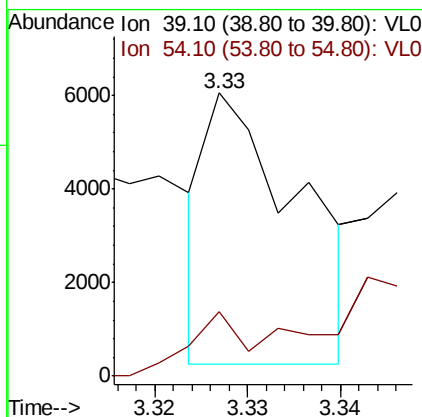
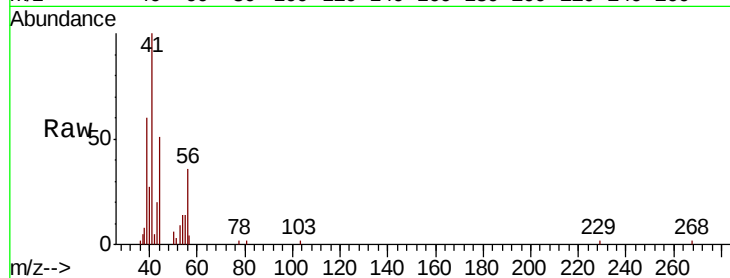
Tgt Ion: 43 Resp: 592999
 Ion Ratio Lower Upper
 43 100
 58 25.7 22.5 33.7





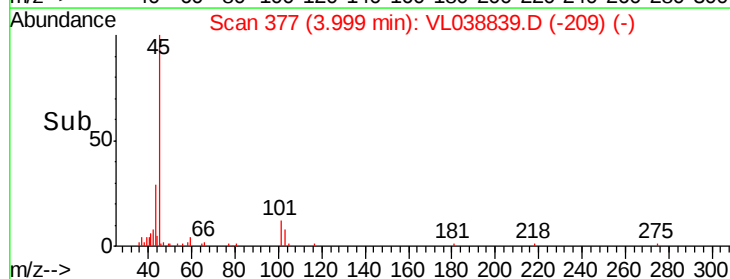
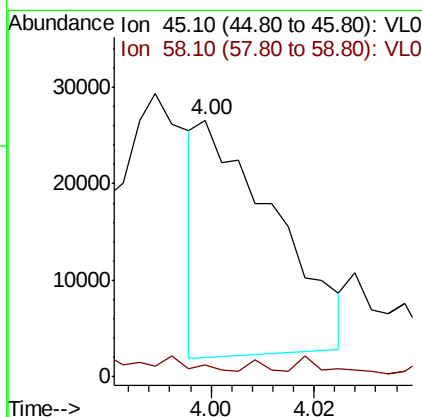
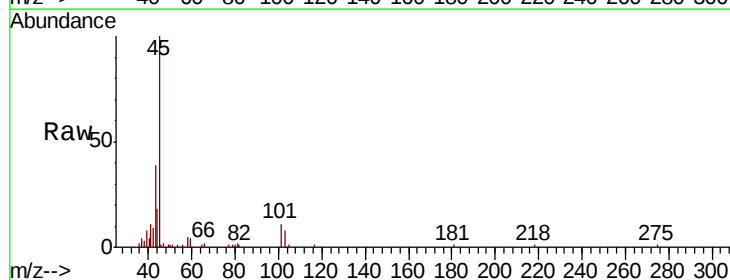
#16
 1,3-Butadiene
 Concen: 0.056 ppbv
 RT: 3.33
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 13:37

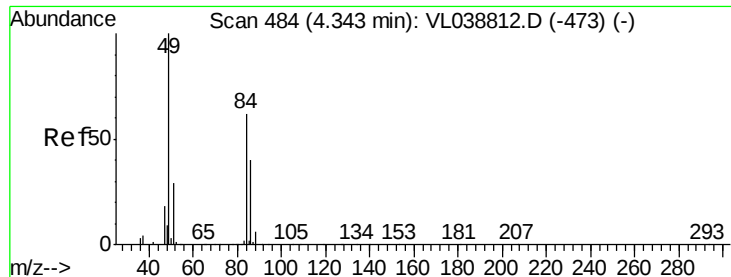
Tot Ion: 39 Resp: 4035
 Ion Ratio Lower Upper
 39 100
 54 48.5 64.8 97.2#



#19
 Isopropyl Alcohol
 Concen: 0.387 ppbv
 RT: 4.00 min Scan# 377
 Delta R.T. 0.04 min
 Lab File: VL038839.D
 Acq: 7 Apr 2022 13:37

Tgt Ion: 45 Resp: 25147
 Ion Ratio Lower Upper
 45 100
 58 0.0 0.0 0.0

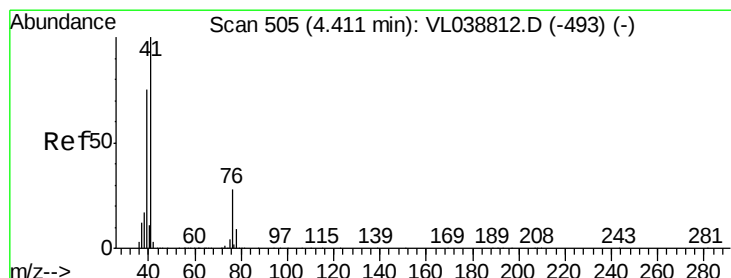
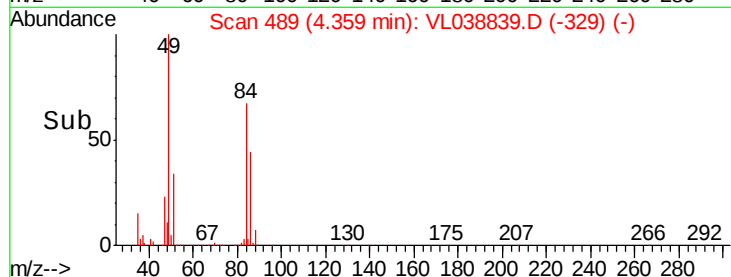
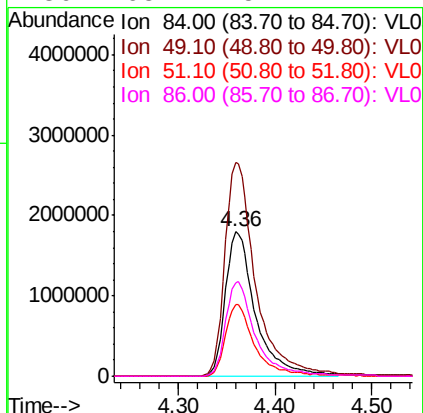
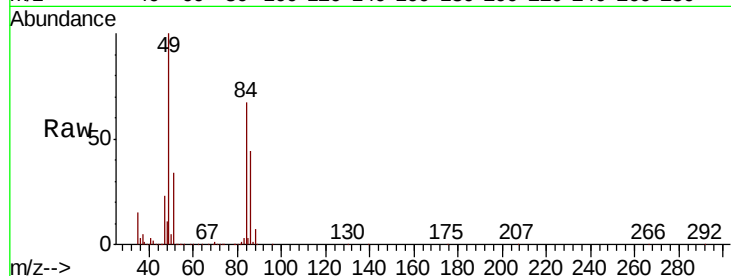




#20
Methvlene Chloride
Concen: 84.665 ppbv
RT: 4.36
Instrument: MSVOA_L
Delta R.T.
Lab File: ClientSampleId :
Acq: 7 Apr 2022 13:37

Tot Ion: 84 Resp: 3898956

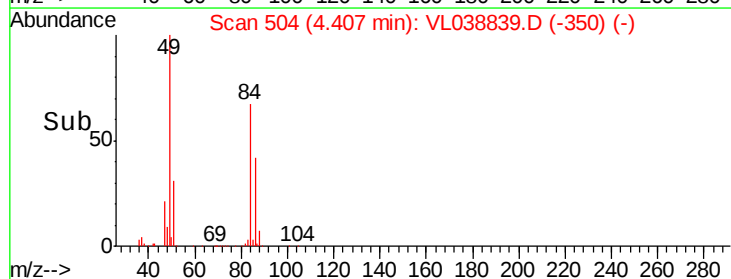
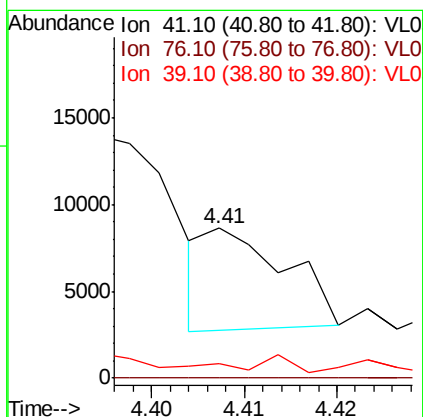
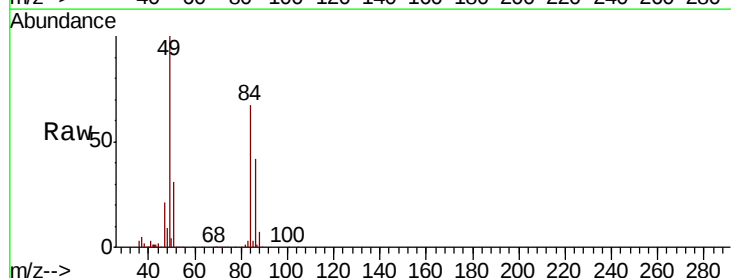
Ion	Ratio	Lower	Upper
84	100		
49	148.2	129.4	194.0
51	50.0	37.4	56.2
86	65.1	51.4	77.2

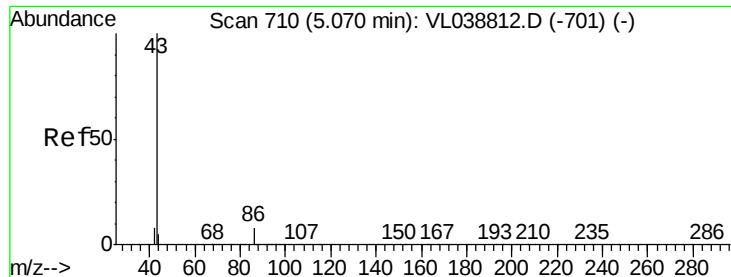


#21
Allyl Chloride
Concen: 0.036 ppbv
RT: 4.41 min Scan# 504
Delta R.T. -0.00 min
Lab File: VL038839.D
Acq: 7 Apr 2022 13:37

Tgt Ion: 41 Resp: 3467

Ion	Ratio	Lower	Upper
41	100		
76	0.0	23.7	35.5#
39	133.8	62.0	93.0#





#23

Vinyl Acetate

Concen: 0.041 ppbv

RT: 5.09 Instrument: MSVOA_1

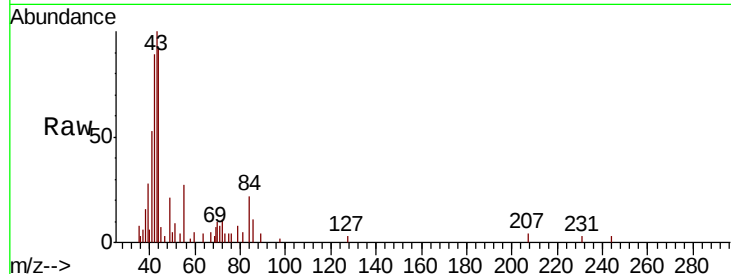
Delta R.T.

Lab File: ClientSampleId:

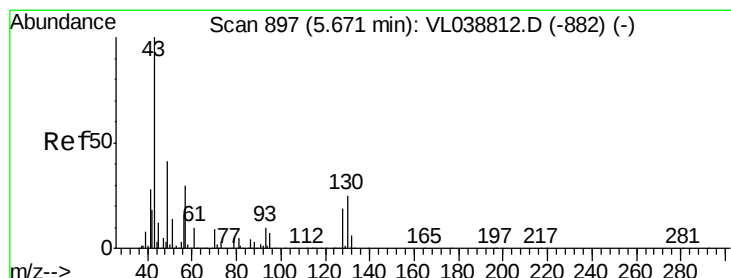
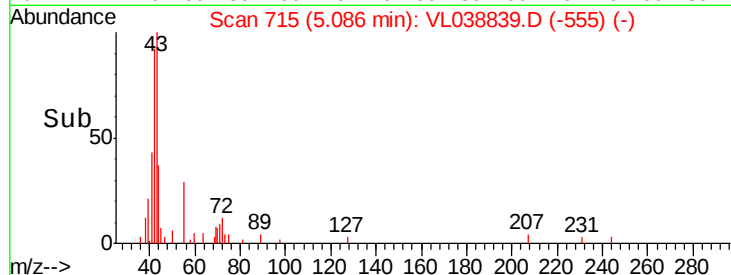
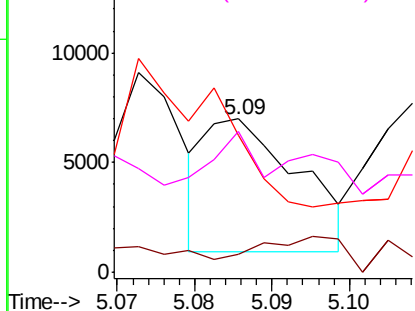
Acq: 7 Apr 2022 13:37

Tot Ion: 43 Resp: 5069

Ion	Ratio	Lower	Upper
43	100		
86	0.0	5.8	8.6#
42	78.7	7.8	11.6#
44	54.1	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: 7.732 ppbv

RT: 5.70 min Scan# 907

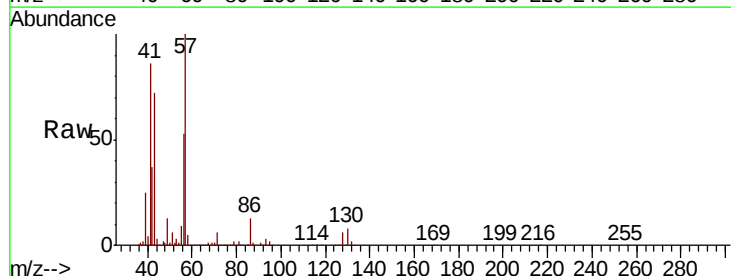
Delta R.T. 0.03 min

Lab File: VL038839.D

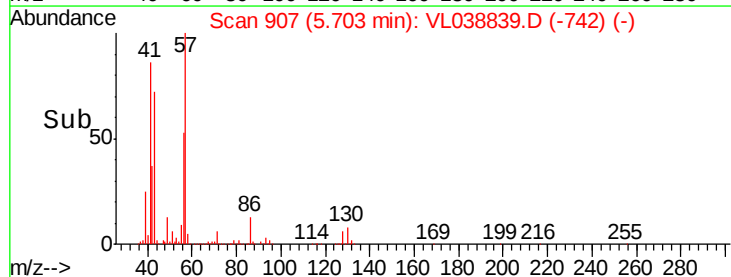
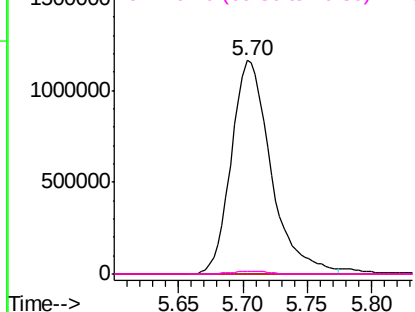
Acq: 7 Apr 2022 13:37

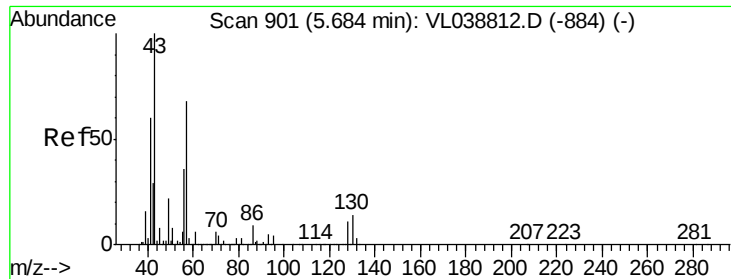
Tgt Ion: 43 Resp: 2491221

Ion	Ratio	Lower	Upper
43	100		
45	0.3	8.4	12.6#
61	0.2	7.9	11.9#
70	1.4	5.6	8.4#



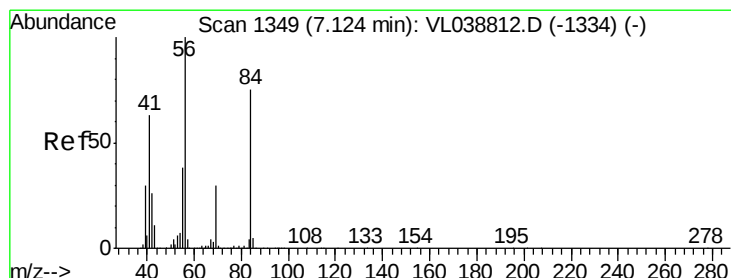
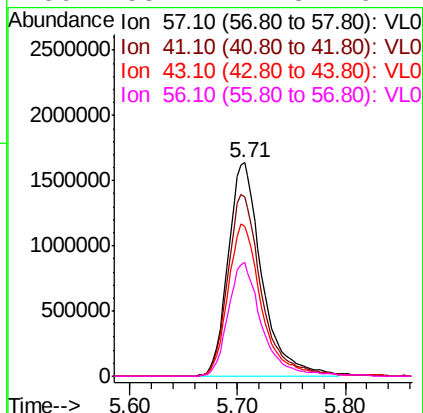
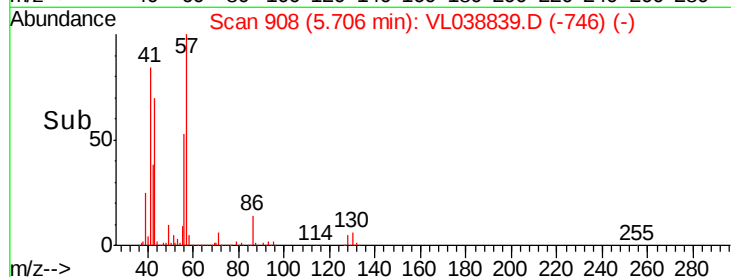
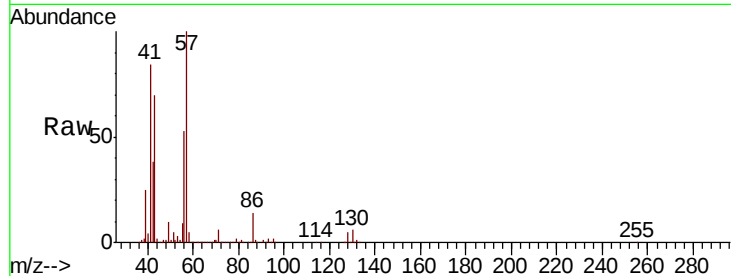
Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 45.10 (44.80 to 45.80): VL0
 Ion 61.10 (60.80 to 61.80): VL0
 Ion 70.10 (69.80 to 70.80): VL0





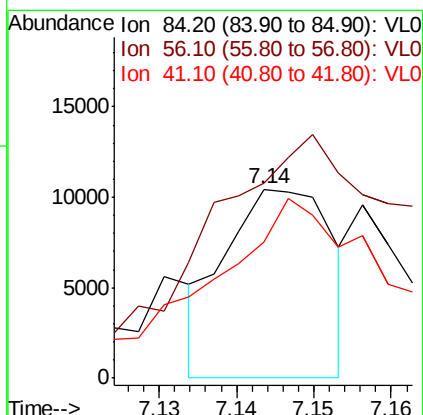
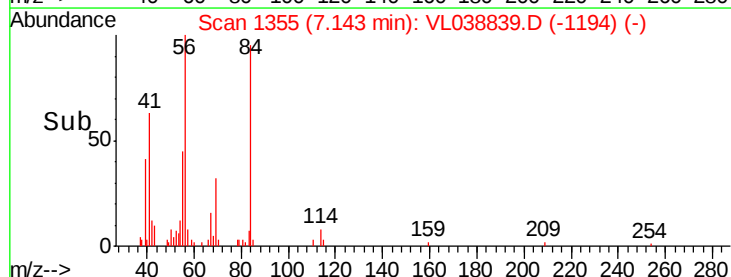
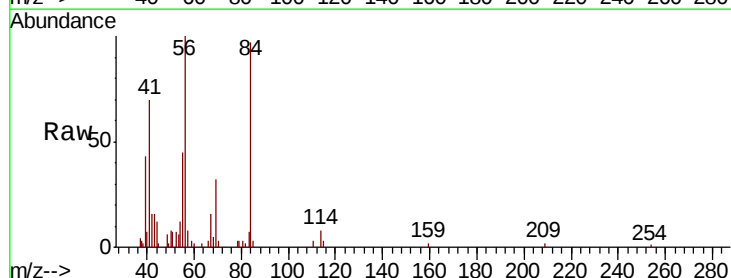
#26
Hexane
Concen: 24.386 ppbv
RT: 5.71
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 13:37

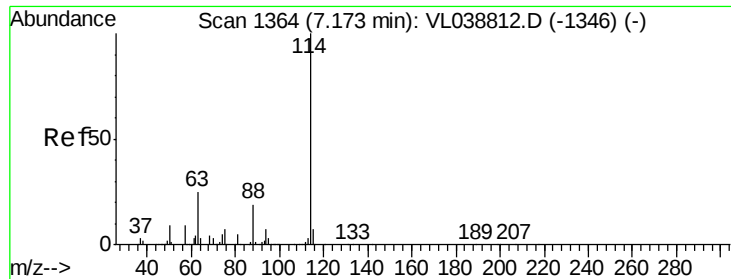
Tot Ion:	57	Resp:	3576275
Ion	Ratio	Lower	Upper
57	100		
41	85.8	72.0	108.0
43	71.3	186.6	280.0#
56	53.1	42.8	64.2



#30
Cyclohexane
Concen: 0.077 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. 0.02 min
Lab File: VL038839.D
Acq: 7 Apr 2022 13:37

Tgt Ion:	84	Resp:	10002
Ion	Ratio	Lower	Upper
84	100		
56	0.0	114.4	171.6#
41	199.1	69.0	103.4#





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19

Instrument: MSVOA_L

Delta R.T.:

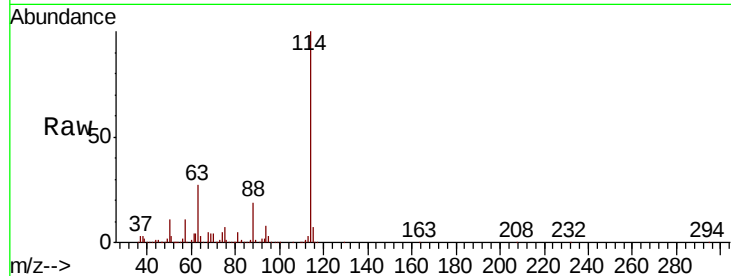
ClientSampleId:

Lab File: BD-INDOOR

Acq: 7 Apr 2022 13:37

Tot Ion:114 Resp: 3281965

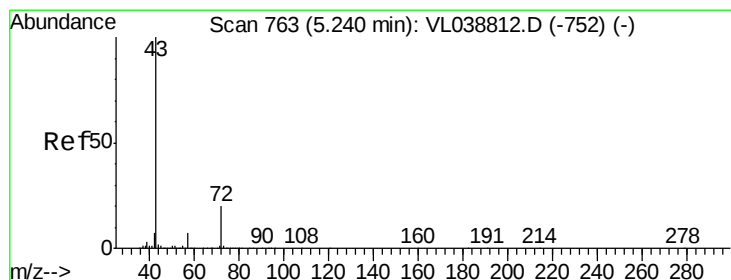
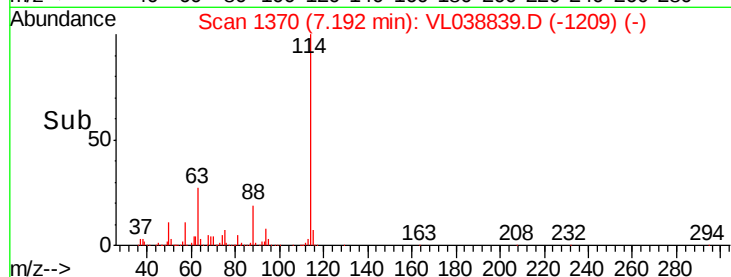
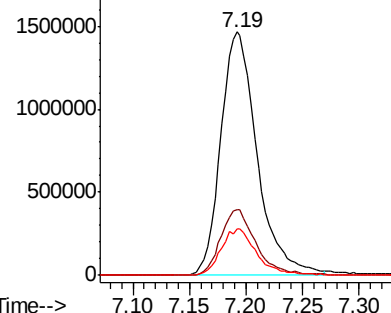
Ion	Ratio	Lower	Upper
114	100		
63	26.8	19.8	29.8
88	19.0	14.2	21.4



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: 0.240 ppbv

RT: 5.27 min Scan# 771

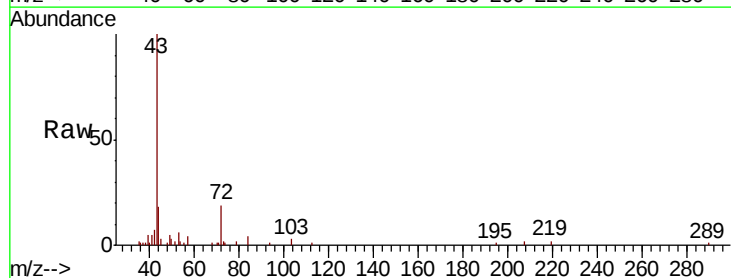
Delta R.T. 0.03 min

Lab File: VL038839.D

Acq: 7 Apr 2022 13:37

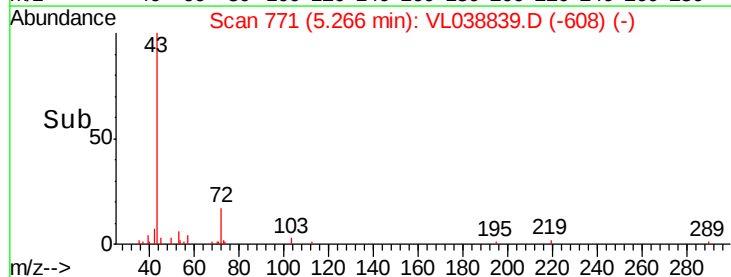
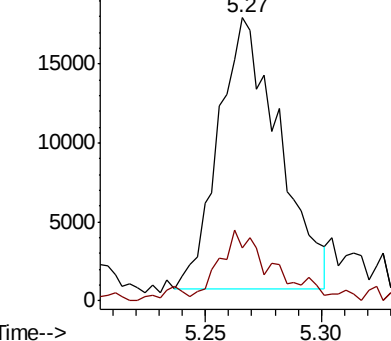
Tgt Ion: 43 Resp: 31149

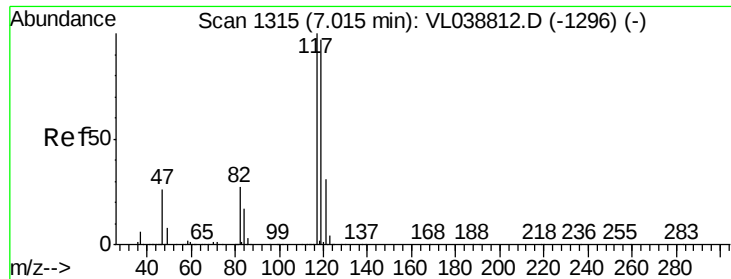
Ion	Ratio	Lower	Upper
43	100		
72	25.5	16.9	25.3



Abundance Ion 43.10 (42.80 to 43.80): VL0

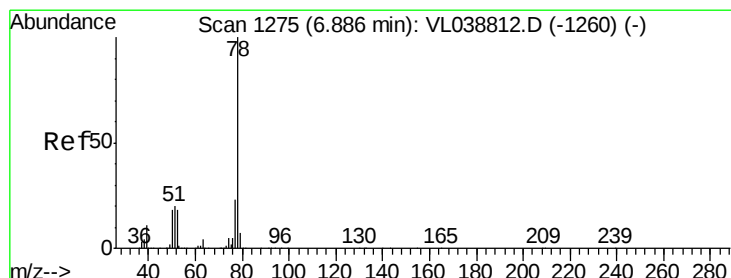
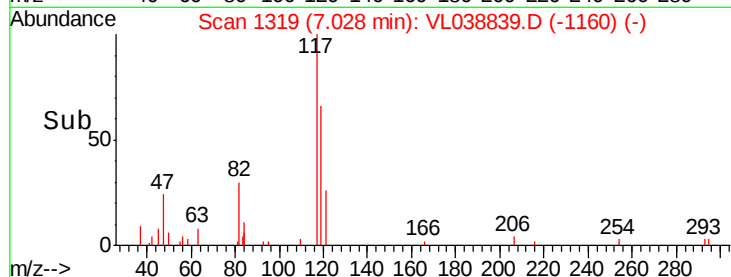
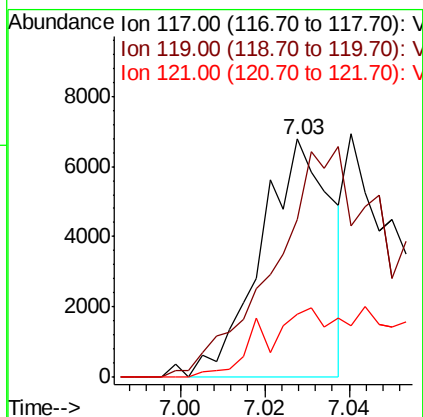
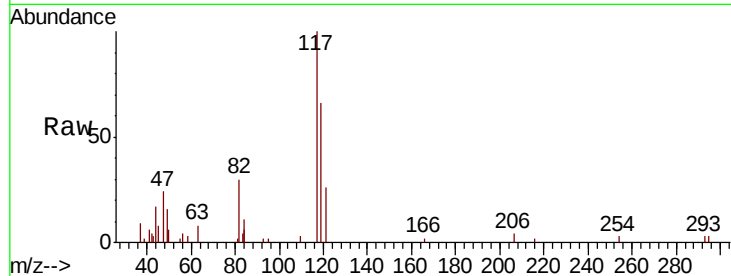
Ion 72.10 (71.80 to 72.80): VL0





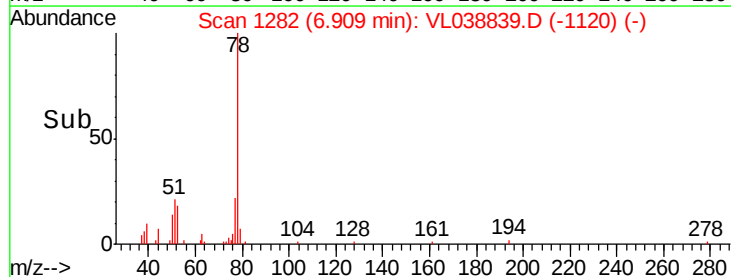
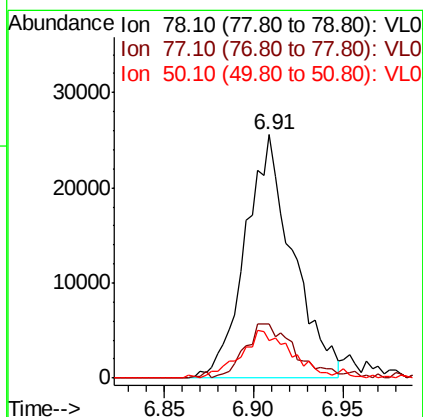
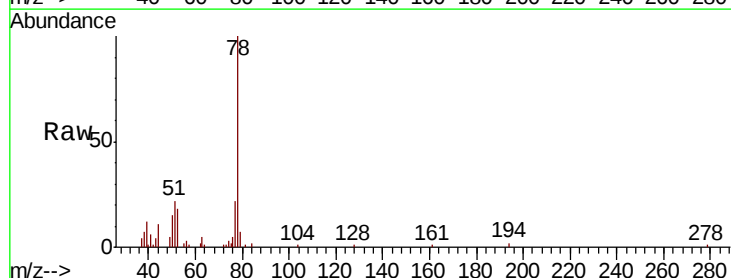
#35
Carbon Tetrachloride
Concen: 0.040 ppbv
RT: 7.03
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 7 Apr 2022 13:37

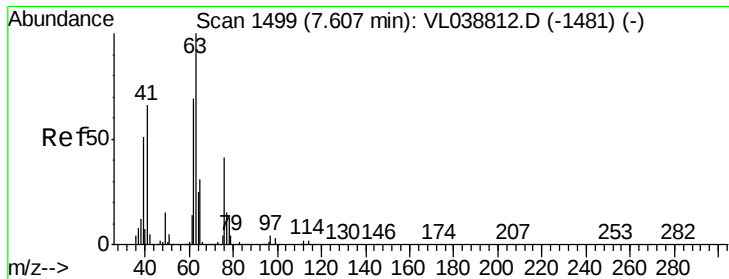
Tot Ion:117 Resp: 7826
Ion Ratio Lower Upper
117 100
119 63.4 77.7 116.5#
121 26.5 24.5 36.7



#36
Benzene
Concen: 0.159 ppbv
RT: 6.91 min Scan# 1282
Delta R.T. 0.02 min
Lab File: VL038839.D
Acq: 7 Apr 2022 13:37

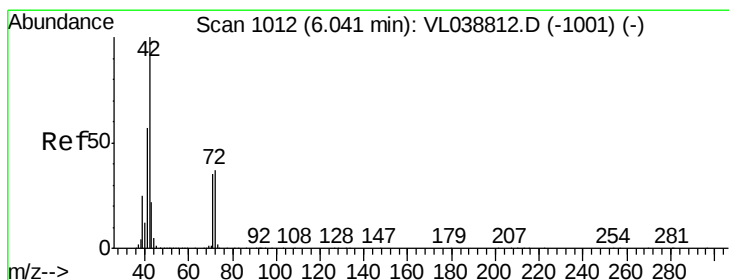
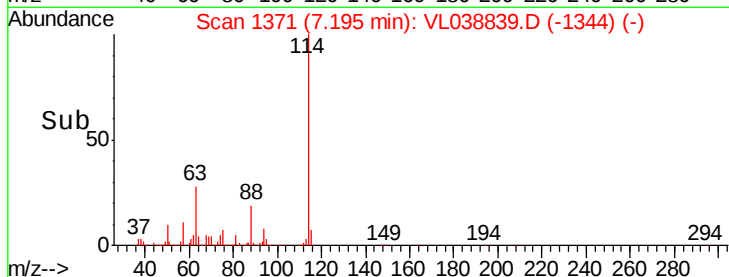
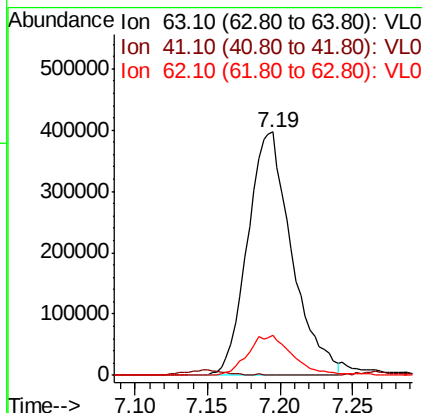
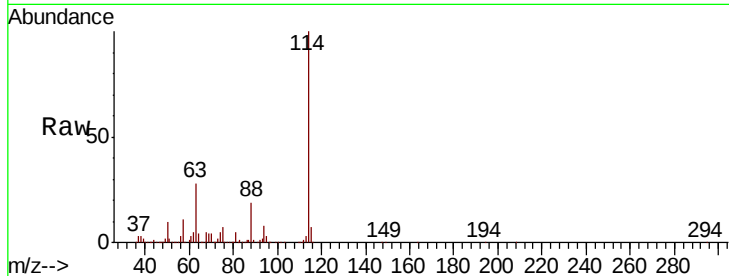
Tgt Ion: 78 Resp: 47564
Ion Ratio Lower Upper
78 100
77 22.1 18.2 27.2
50 14.1 14.0 21.0





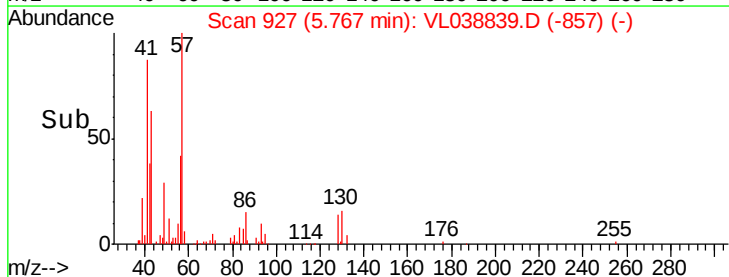
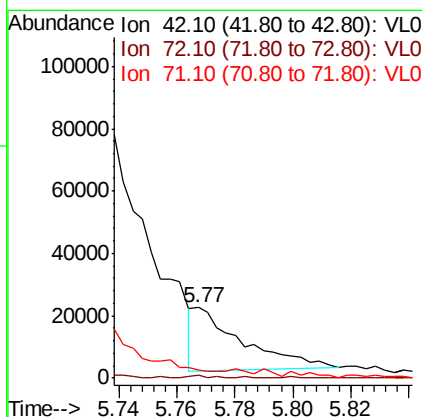
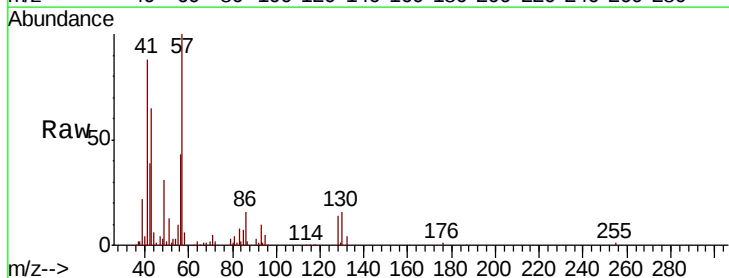
#39
 1,2-Dichloropropane
 Concen: 7.377 ppbv
 RT: 7.19
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 BD-INDOOR
 Acq: 7 Apr 2022 13:37

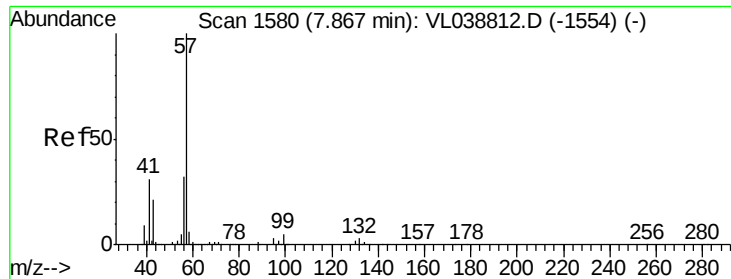
Tot Ion	63	Resp	842488
Ion Ratio	Lower	Upper	
63	100		
41	0.0	53.0	79.6#
62	16.6	55.0	82.4#



#41
 Tetrahydrofuran
 Concen: 0.188 ppbv
 RT: 5.77 min Scan# 927
 Delta R.T. -0.27 min
 Lab File: VL038839.D
 Acq: 7 Apr 2022 13:37

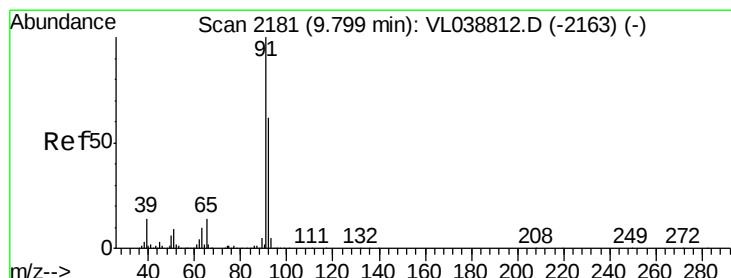
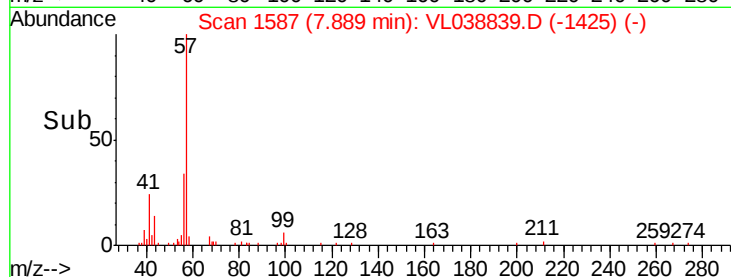
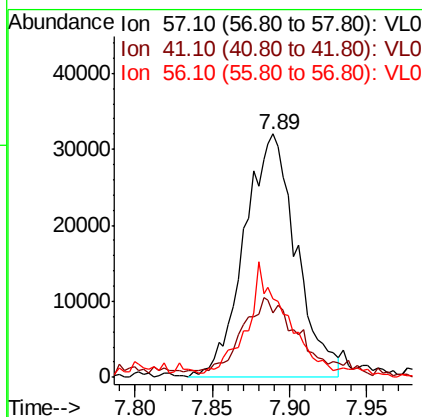
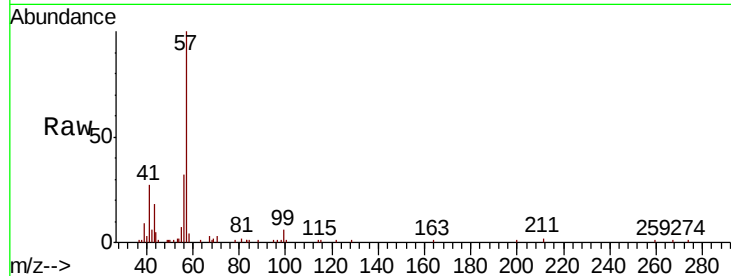
Tgt Ion	42	Resp	23115
Ion Ratio	Lower	Upper	
42	100		
72	2.2	31.4	47.0#
71	0.0	30.2	45.4#





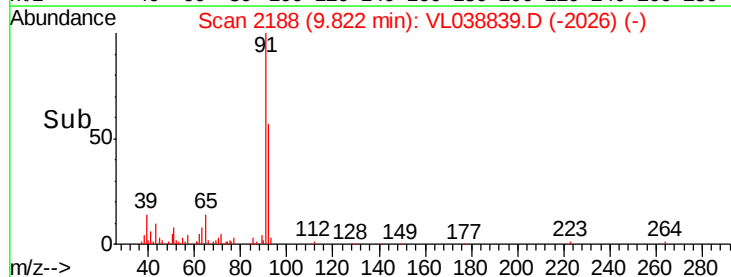
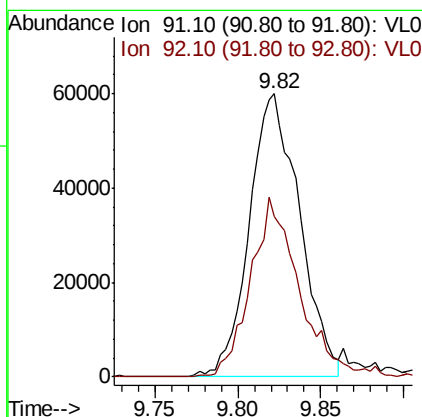
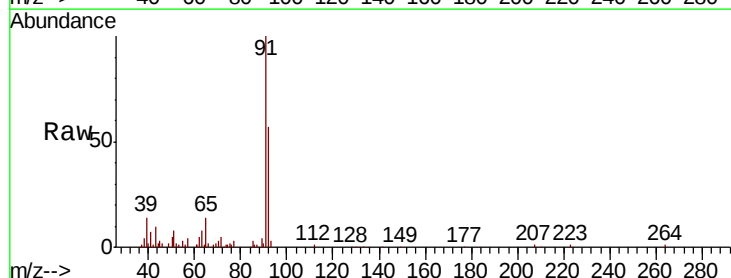
#44
 2,2,4-Trimethylpentane
 Concen: 0.148 ppbv
 RT: 7.89
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 BD-INDOOR
 Acq: 7 Apr 2022 13:37

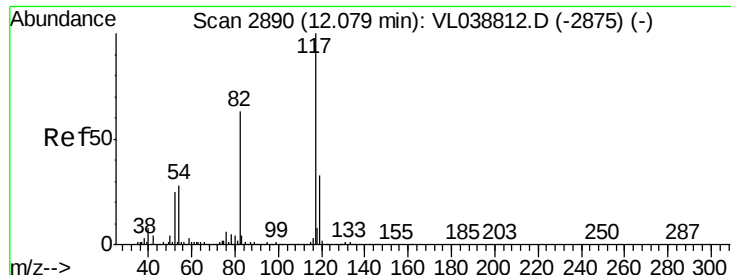
Tot Ion: 57 Resp: 74716
 Ion Ratio Lower Upper
 57 100
 41 38.4 25.0 37.4#
 56 37.2 25.3 37.9



#53
 Toluene
 Concen: 0.367 ppbv
 RT: 9.82 min Scan# 2188
 Delta R.T. 0.02 min
 Lab File: VL038839.D
 Acq: 7 Apr 2022 13:37

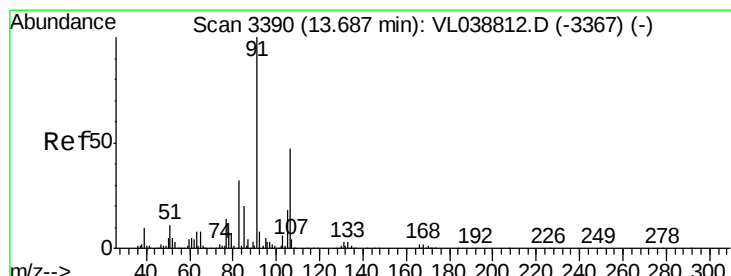
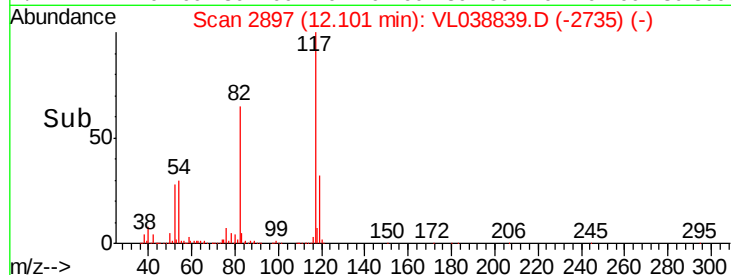
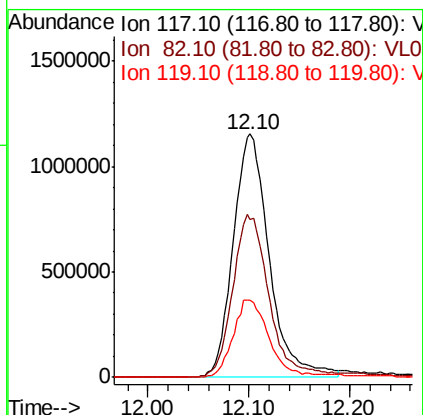
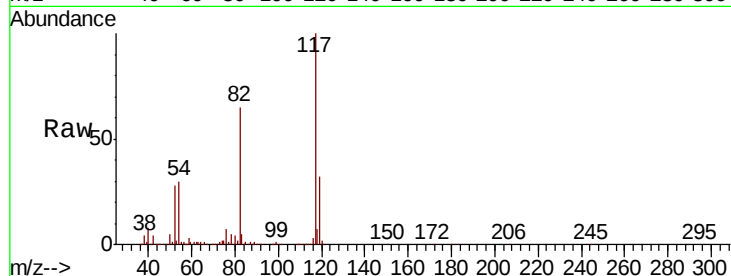
Tgt Ion: 91 Resp: 126334
 Ion Ratio Lower Upper
 91 100
 92 62.4 49.2 73.8





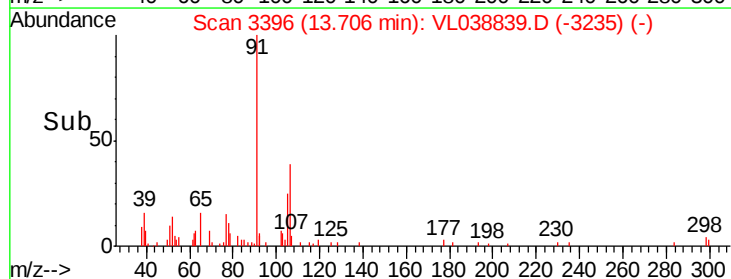
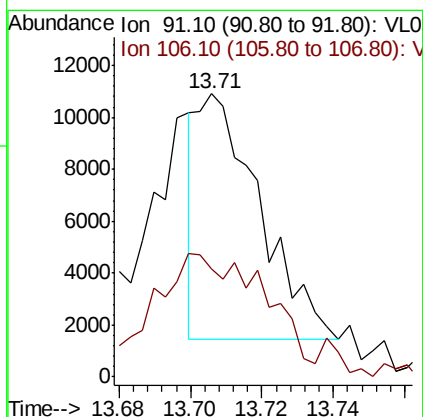
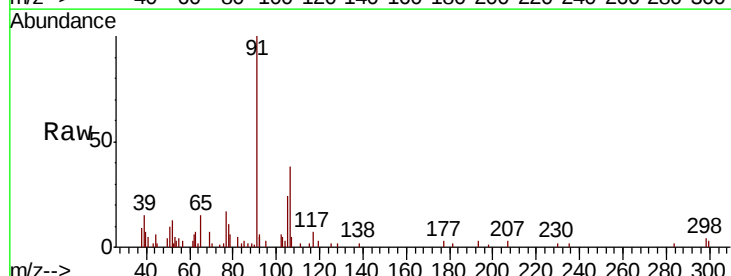
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 7 Apr 2022 13:37

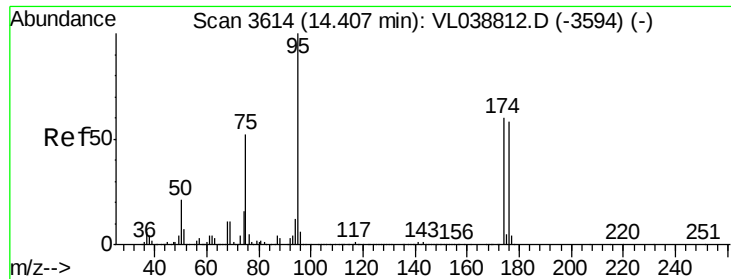
Tot Ion: 117 Resp: 2869690
Ion Ratio Lower Upper
117 100
82 69.4 53.0 79.6
119 33.2 24.9 37.3



#60
o-Xylene
Concen: 0.034 ppbv
RT: 13.71 min Scan# 3396
Delta R.T.: 0.02 min
Lab File: VL038839.D
Acq: 7 Apr 2022 13:37

Tgt Ion: 91 Resp: 11390
Ion Ratio Lower Upper
91 100
106 103.9 23.8 71.4#

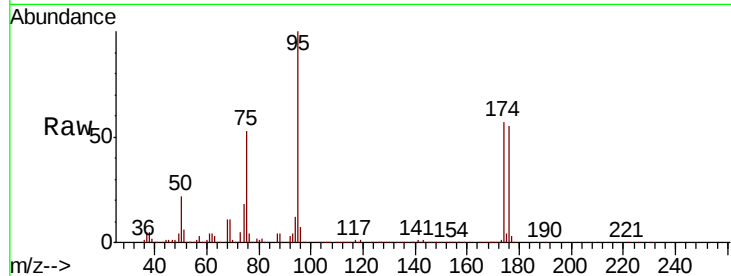




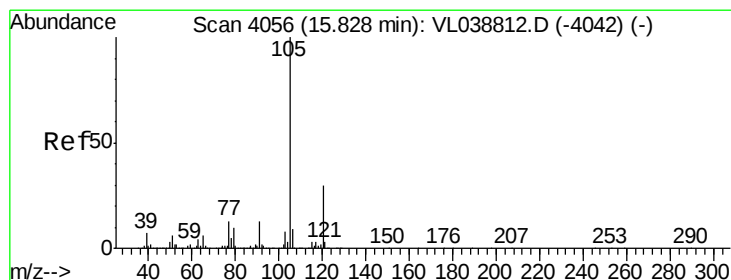
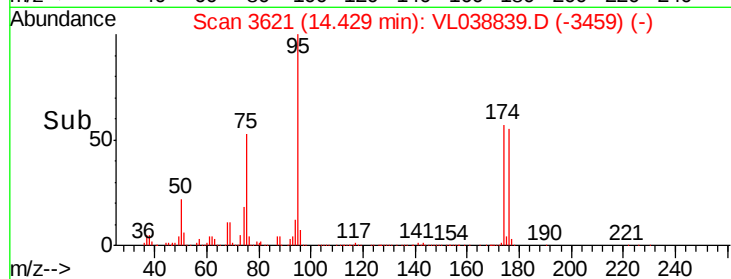
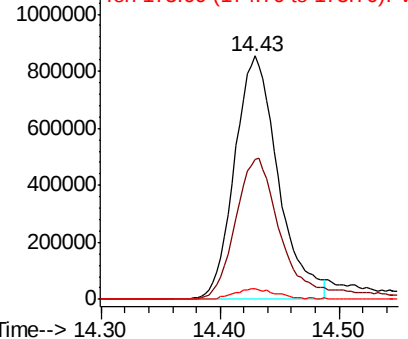
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.956 ppbv
 RT: 14.43 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 BD-INDOOR
 Acq: 7 Apr 2022 13:37

Tot Ion: 95 Resp: 2167131

Ion	Ratio	Lower	Upper
95	100		
174	64.1	52.0	78.0
175	4.7	4.0	6.0



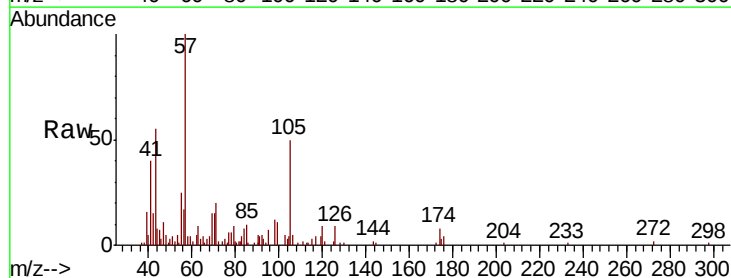
Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



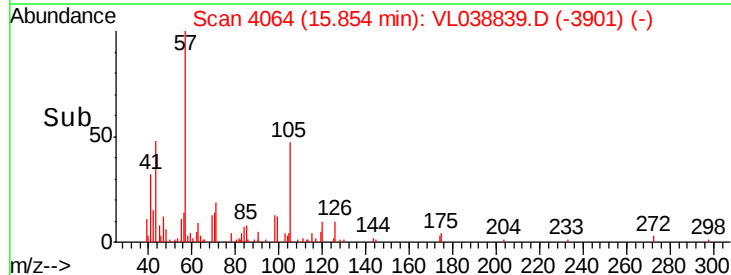
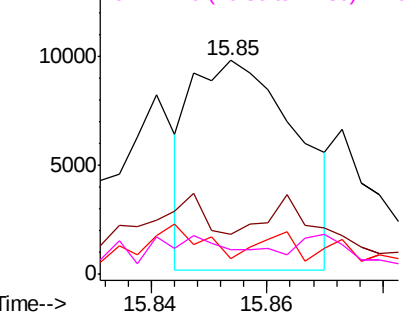
#72
 4-Ethyltoluene
 Concen: 0.030 ppbv
 RT: 15.85 min Scan# 4064
 Delta R.T. 0.03 min
 Lab File: VL038839.D
 Acq: 7 Apr 2022 13:37

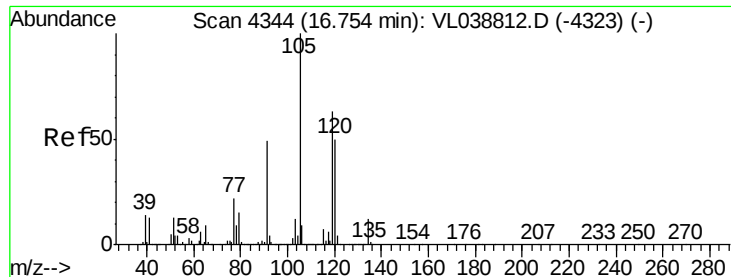
Tgt Ion: 105 Resp: 12127

Ion	Ratio	Lower	Upper
105	100		
120	0.0	24.3	36.5#
91	0.0	9.4	14.2#
77	0.0	10.6	15.8#



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.098 ppbv
 RT: 16.78
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 7 Apr 2022 15:57

Tot Ion:	105	Resp:	37443
Ion	Ratio	Lower	Upper
105	100		
120	48.0	39.8	59.8
91	12.0	39.4	59.0#
77	11.3	17.3	25.9#

