

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL012722\
 Data File : VL038306.D
 Acq On : 27 Jan 2022 21:15
 Operator : SY/AP
 Sample : N1300-01 2X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-18C

Quant Time: Jan 28 05:14:49 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL012422AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Jan 24 14:12:48 2022
 QLast Update : Mon Jan 24 14:12:48 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	756672	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	1974290	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.06	117	1634779	10.00	ppbv	-0.03

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.39	95	1197672	9.65	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.50%

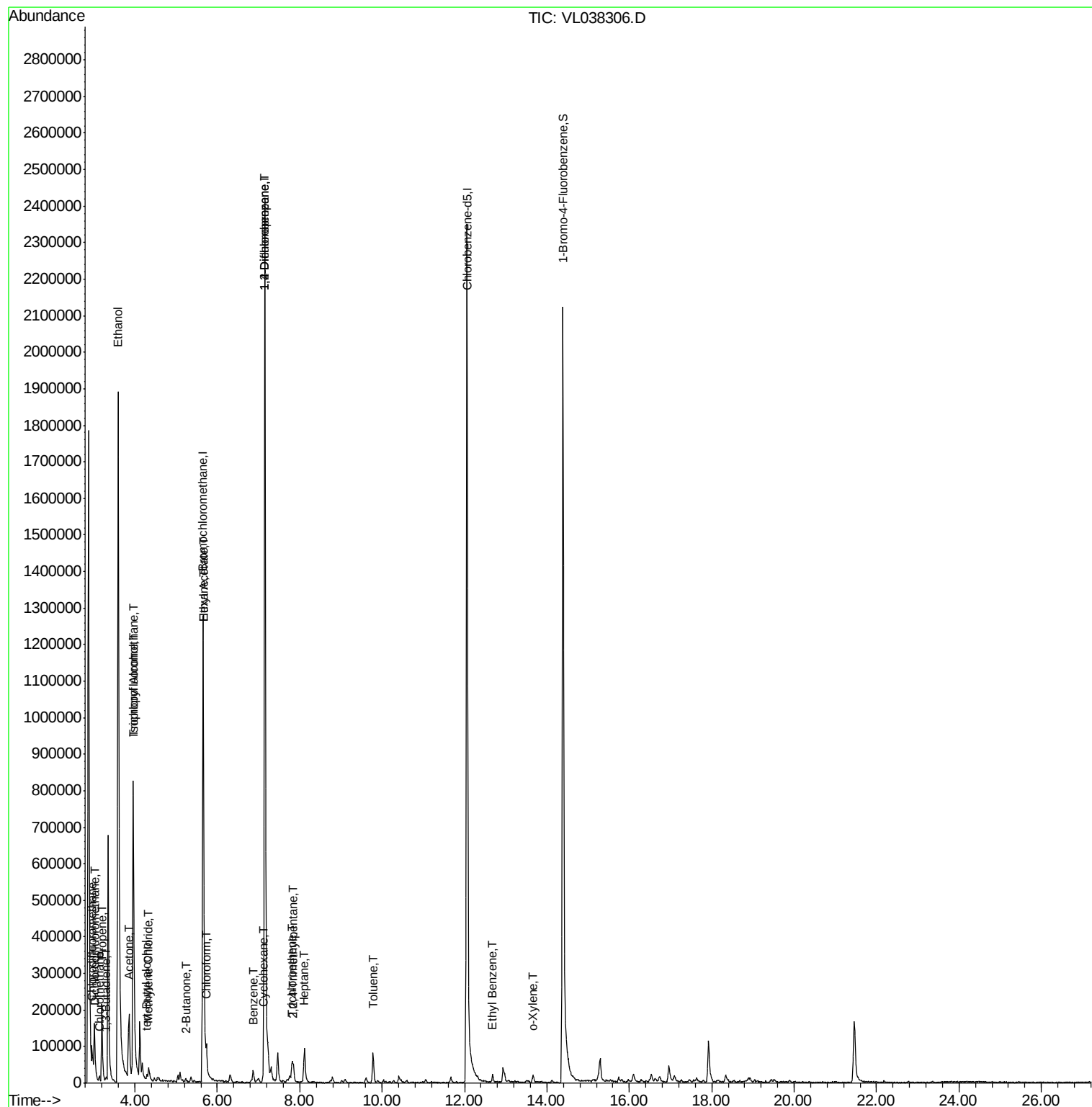
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	19285	0.120	ppbv #	80
3) Chlorodifluoromethane	2.96	51	114135	0.758	ppbv #	77
4) Chloromethane	3.14	50	11507	0.222	ppbv	95
9) Propene	3.20	41	65072	1.327	ppbv	84
10) Heptane	8.10	43	13276	0.105	ppbv #	28
11) Trichlorofluoromethane	3.94	101	8365	0.067	ppbv	85
13) Ethanol	3.59	45	2731096	518.814	ppbv	97
15) Acetone	3.84	43	181991	2.728	ppbv	93
16) 1,3-Butadiene	3.30	39	3063	0.064	ppbv #	10
17) tert-Butyl alcohol	4.28	59	2996	0.041	ppbv #	70
19) Isopropyl Alcohol	3.95	45	1140722	27.337	ppbv #	96
20) Methylene Chloride	4.33	84	4681	0.121	ppbv #	91
25) Ethyl Acetate	5.67	43	49767	0.266	ppbv #	85
26) Hexane	5.67	57	61539	0.708	ppbv #	47
29) Chloroform	5.74	83	42588	0.300	ppbv	99
30) Cyclohexane	7.11	84	3074	0.041	ppbv #	1
34) 2-Butanone	5.23	43	5384	0.083	ppbv #	53
36) Benzene	6.87	78	25903	0.148	ppbv #	91
38) Trichloroethene	7.82	130	9891	0.152	ppbv	88
39) 1,2-Dichloropropane	7.15	63	517779	7.313	ppbv #	26
44) 2,2,4-Trimethylpentane	7.85	57	32361	0.105	ppbv #	64
53) Toluene	9.78	91	27346	0.141	ppbv #	10
58) Ethyl Benzene	12.69	91	8013	0.033	ppbv	99
60) o-Xylene	13.66	91	10600	0.056	ppbv #	32

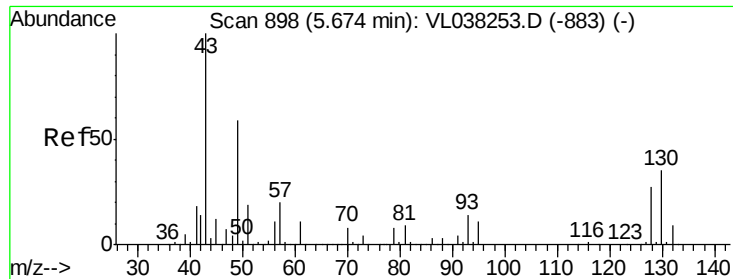
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: LA-18C

Acq: 27 Jan 2022 21:15

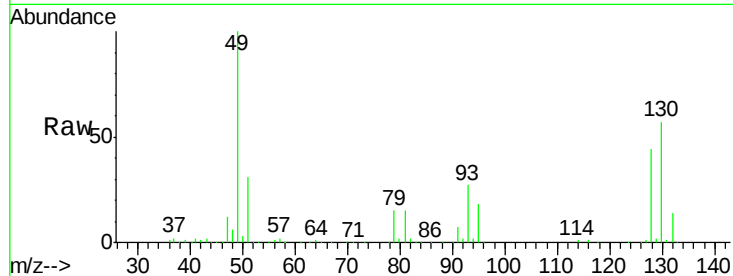
Tgt Ion: 49 Resp: 756672

Ion Ratio Lower Upper

49 100

128 46.2 24.5 73.5

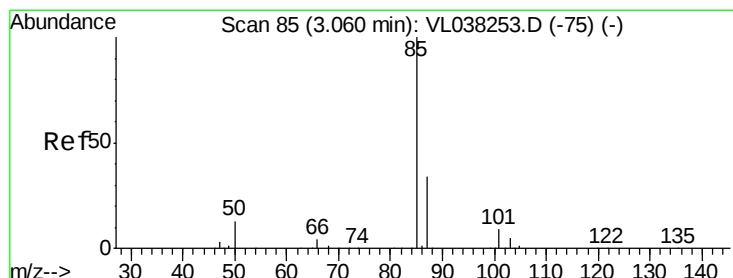
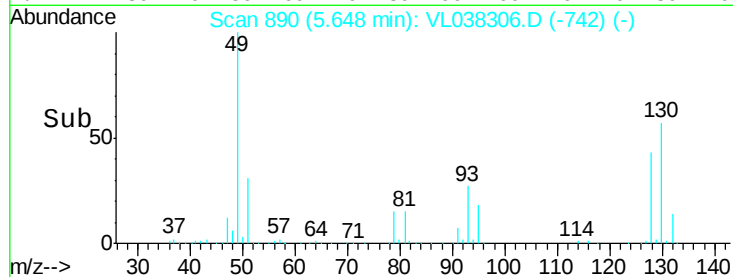
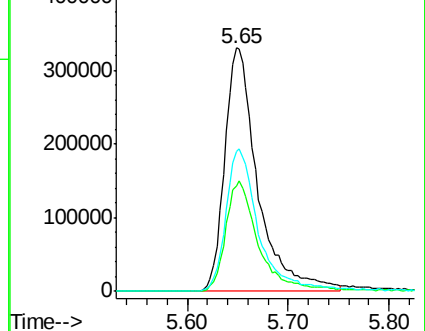
130 59.4 30.1 90.5



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: 0.120 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.02 min

Lab File: VL038306.D

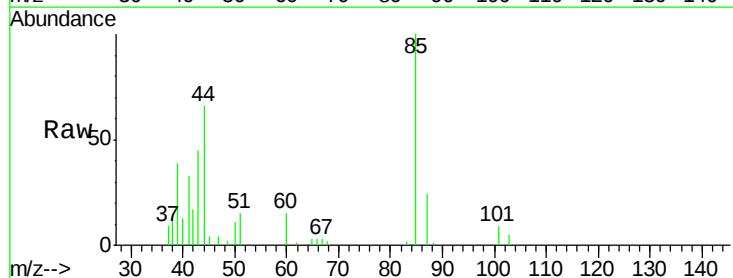
Acq: 27 Jan 2022 21:15

Tgt Ion: 85 Resp: 19285

Ion Ratio Lower Upper

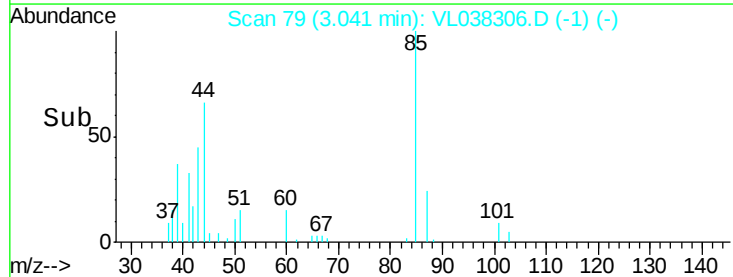
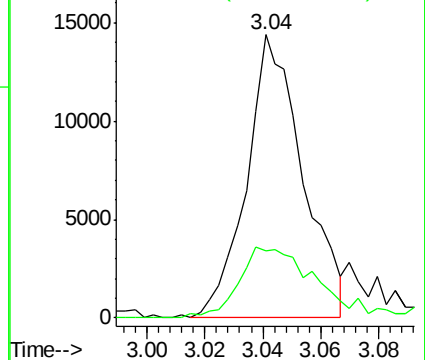
85 100

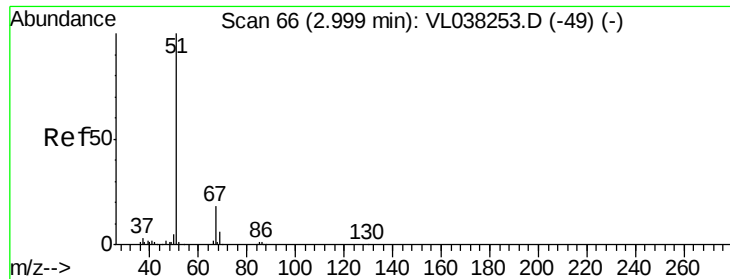
87 22.1 27.0 40.6#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.758 ppbv

RT: 2.96 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

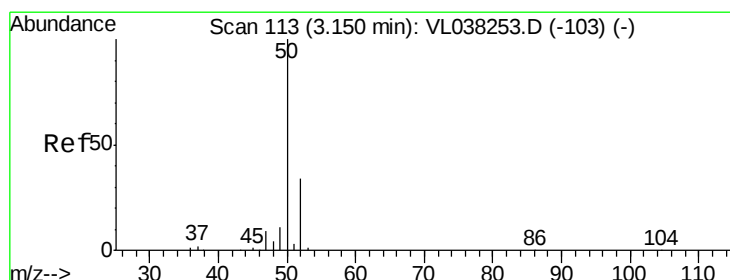
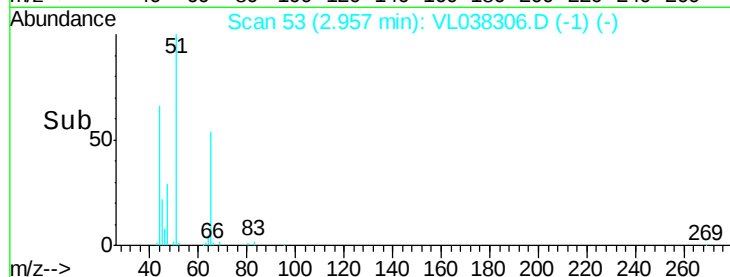
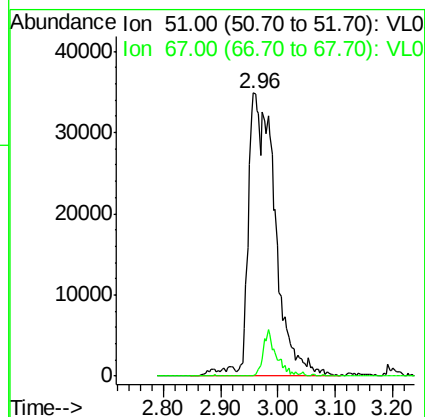
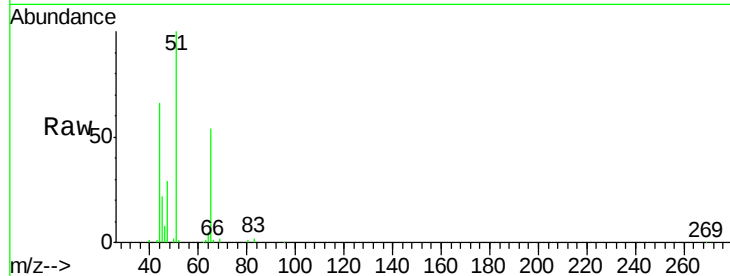
Acq: 27 Jan 2022 21:15

Tgt Ion: 51 Resp: 114135

Ion Ratio Lower Upper

51 100

67 8.0 14.4 21.6#



#4

Chloromethane

Concen: 0.222 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL038306.D

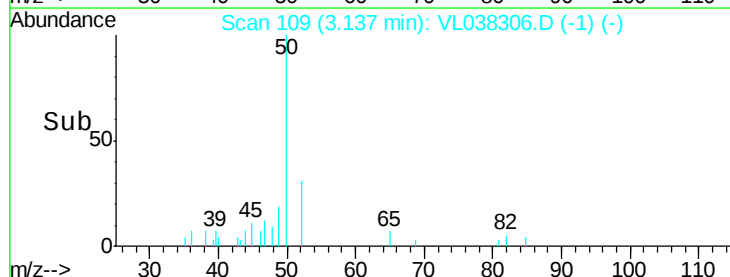
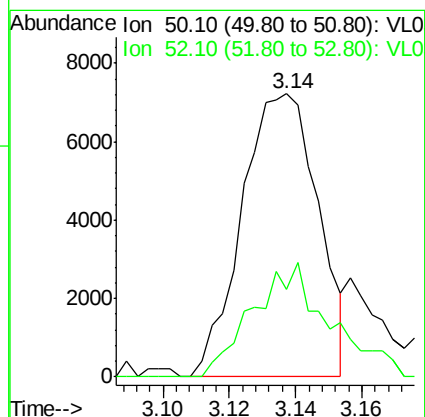
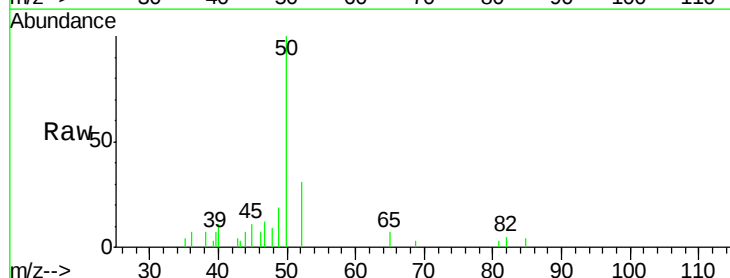
Acq: 27 Jan 2022 21:15

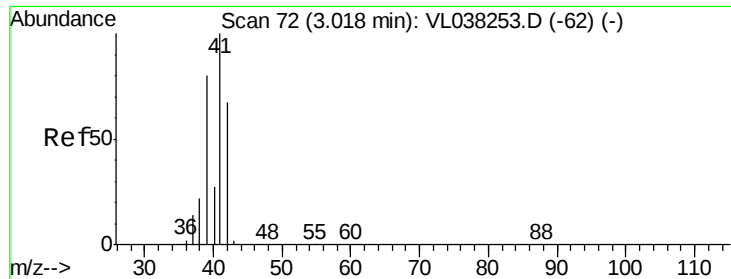
Tgt Ion: 50 Resp: 11507

Ion Ratio Lower Upper

50 100

52 30.8 27.1 40.7





#9

Propene

Concen: 1.327 ppbv

RT: 3.20 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

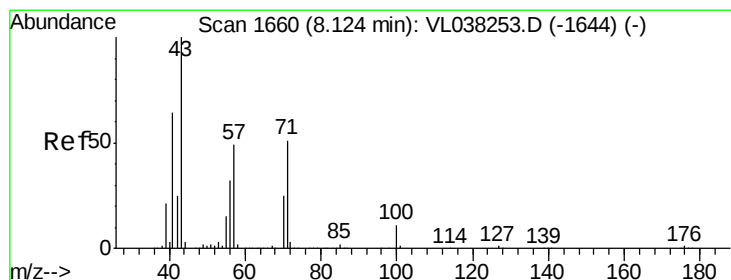
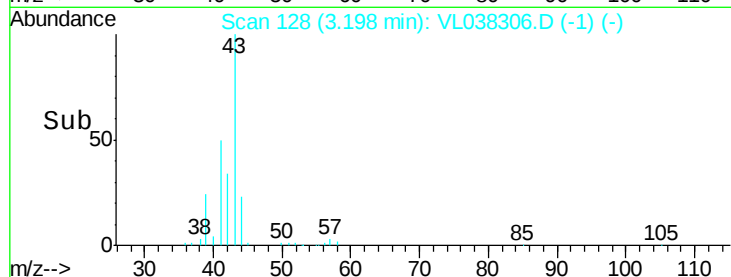
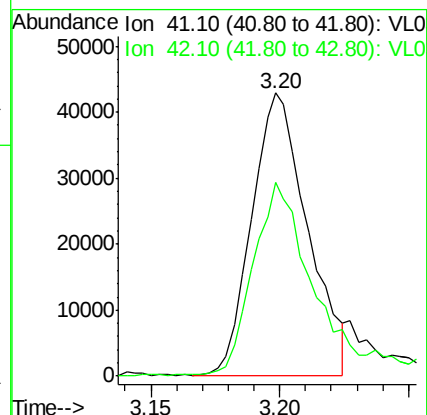
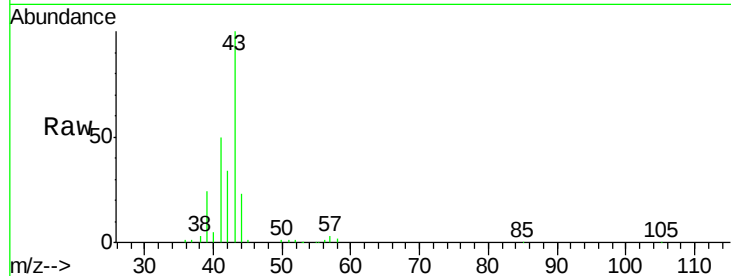
Acq: 27 Jan 2022 21:15

Tgt Ion: 41 Resp: 65072

Ion Ratio Lower Upper

41 100

42 81.4 54.9 82.3



#10

Heptane

Concen: 0.105 ppbv

RT: 8.10 min Scan# 1652

Delta R.T. -0.03 min

Lab File: VL038306.D

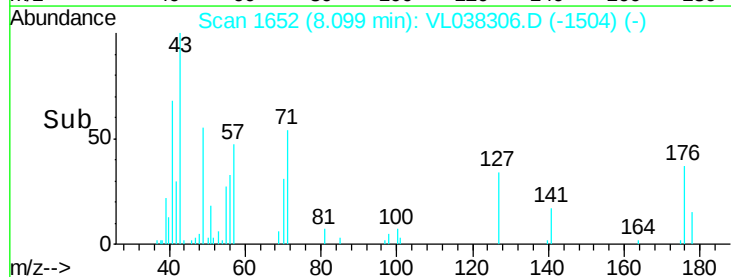
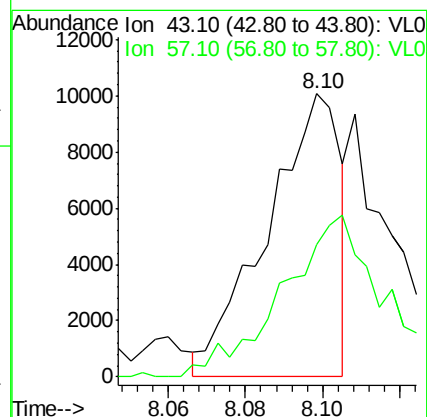
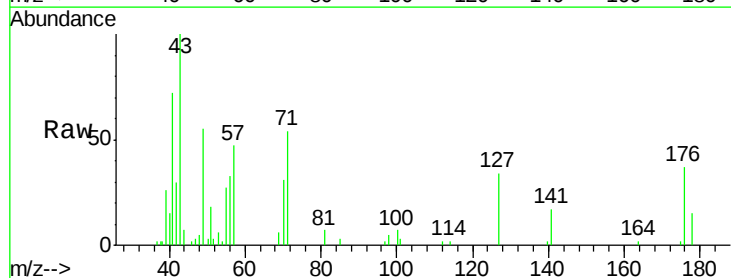
Acq: 27 Jan 2022 21:15

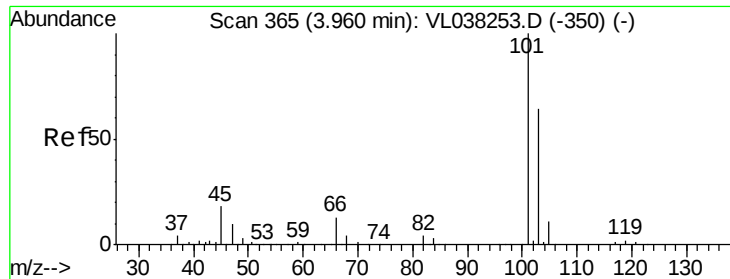
Tgt Ion: 43 Resp: 13276

Ion Ratio Lower Upper

43 100

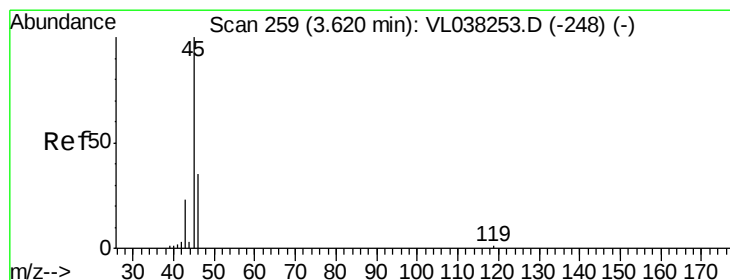
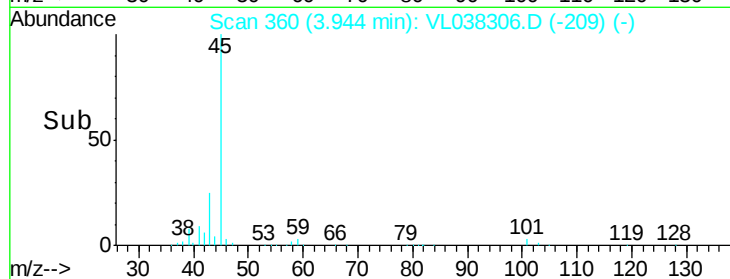
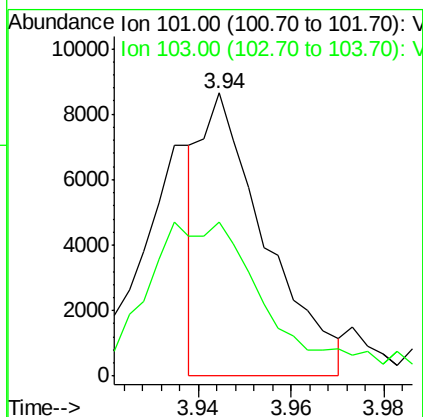
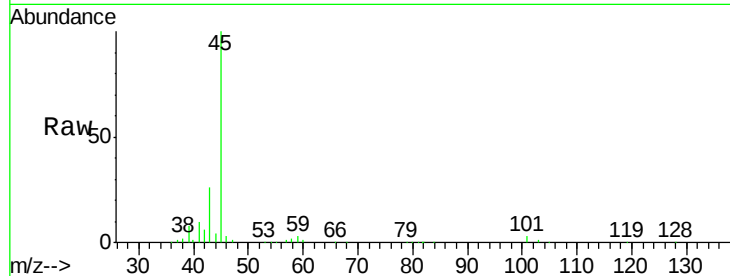
57 0.0 39.5 59.3#





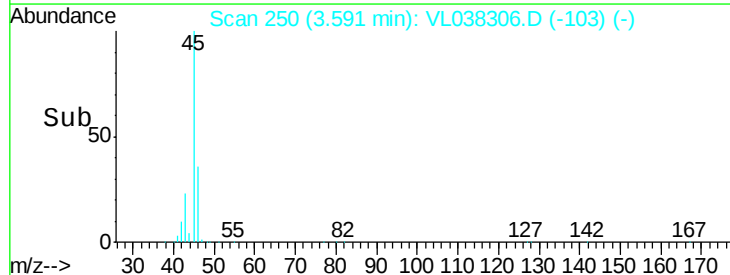
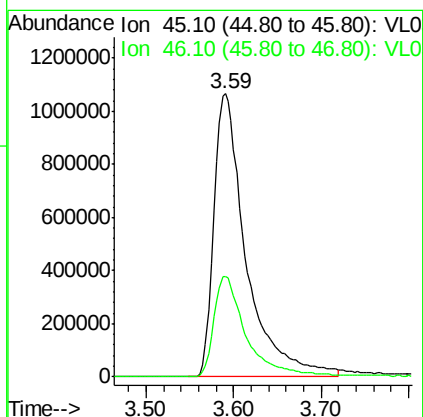
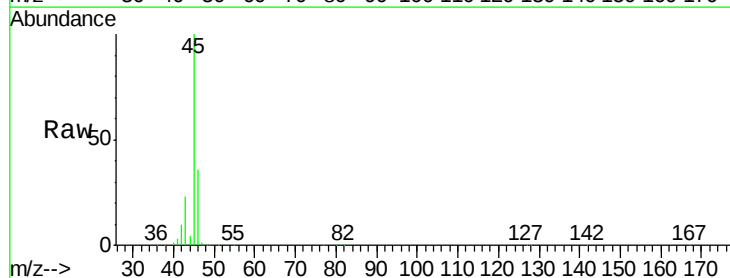
#11
 Trichlorofluoromethane
 Concen: 0.067 ppbv
 RT: 3.94
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 21:15

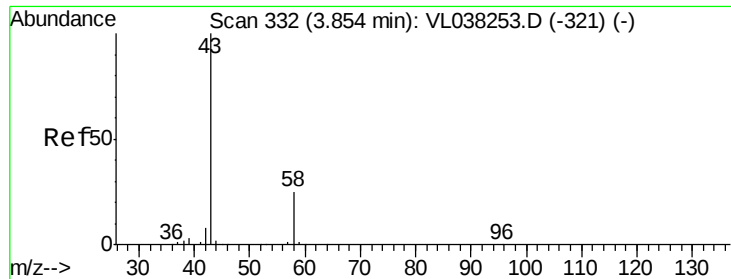
Tgt Ion: 101 Resp: 8365
 Ion Ratio Lower Upper
 101 100
 103 51.9 51.2 76.8



#13
 Ethanol
 Concen: 518.814 ppbv
 RT: 3.59 min Scan# 250
 Delta R.T. -0.03 min
 Lab File: VL038306.D
 Acq: 27 Jan 2022 21:15

Tgt Ion: 45 Resp: 2731096
 Ion Ratio Lower Upper
 45 100
 46 36.5 15.4 61.6





#15

Acetone

Concen: 2.728 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

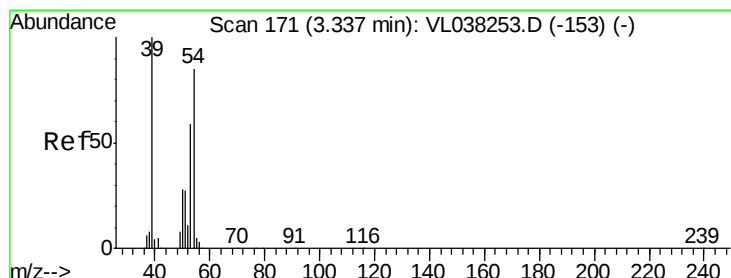
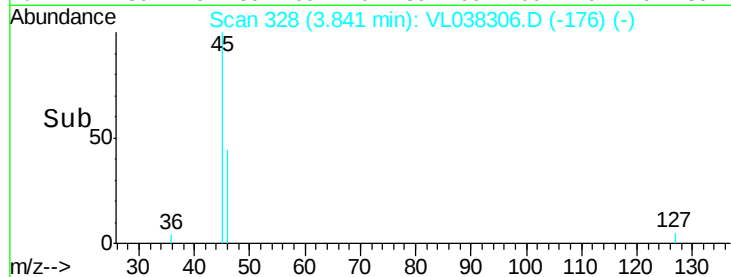
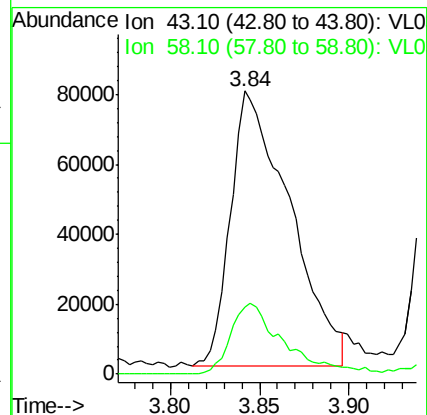
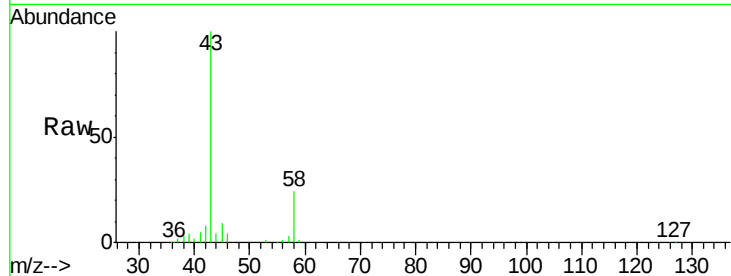
Acq: 27 Jan 2022 21:15

Tgt Ion: 43 Resp: 181991

Ion Ratio Lower Upper

43 100

58 23.2 21.5 32.3



#16

1,3-Butadiene

Concen: 0.064 ppbv

RT: 3.30 min Scan# 161

Delta R.T. -0.03 min

Lab File: VL038306.D

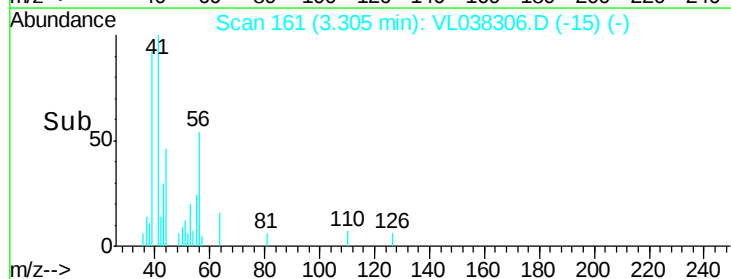
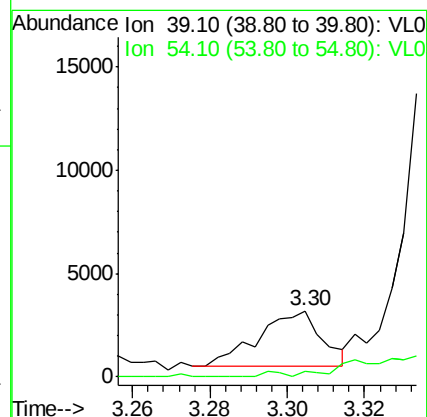
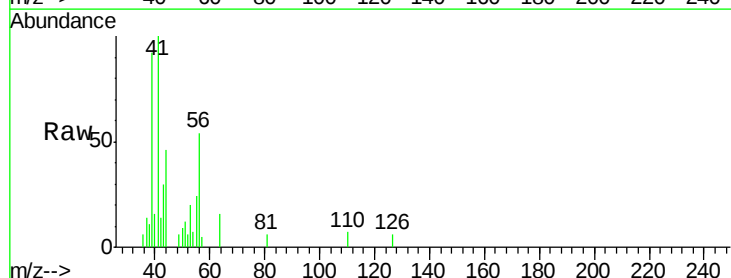
Acq: 27 Jan 2022 21:15

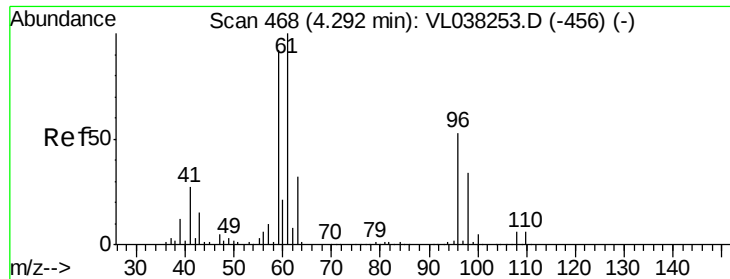
Tgt Ion: 39 Resp: 3063

Ion Ratio Lower Upper

39 100

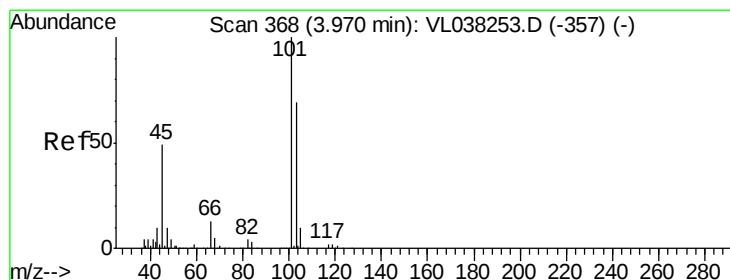
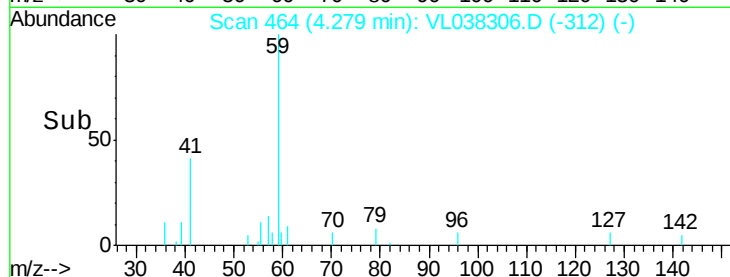
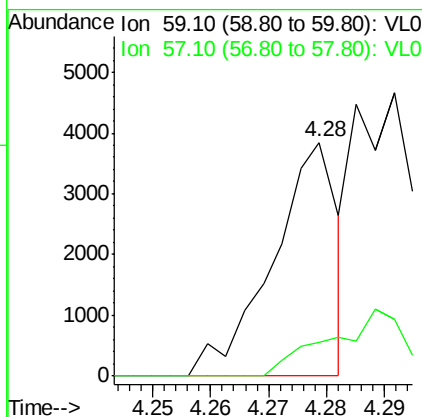
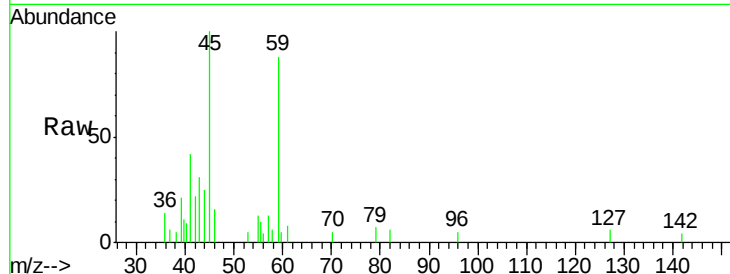
54 0.0 62.6 94.0#





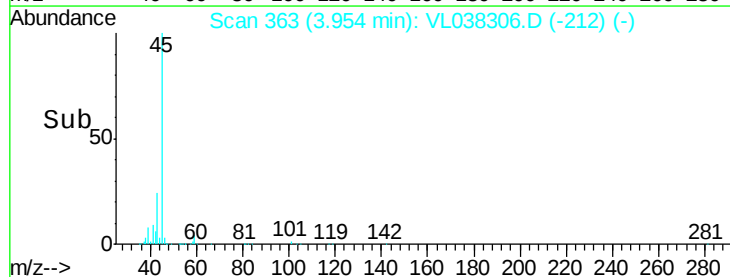
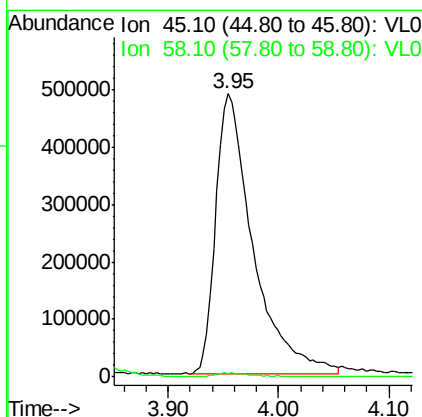
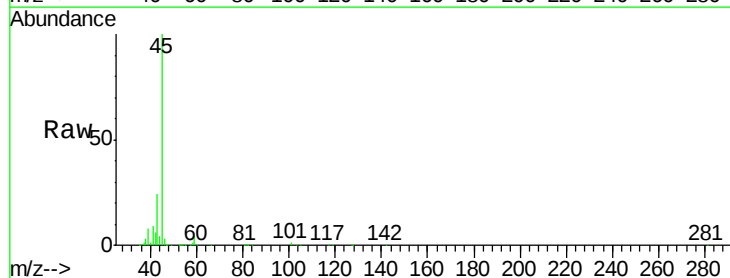
#17
 tert-Butyl alcohol
 Concen: 0.041 ppbv
 RT: 4.28
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 21:15

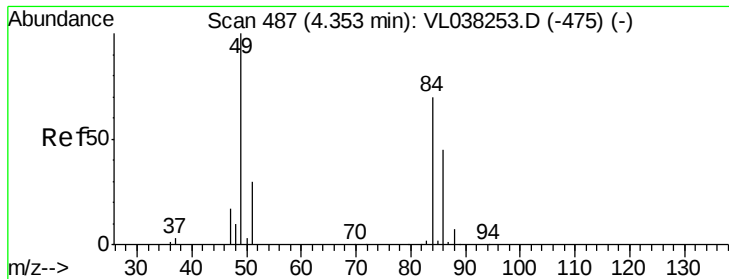
Tgt Ion: 59 Resp: 2996
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.2 13.8#



#19
 Isopropyl Alcohol
 Concen: 27.337 ppbv
 RT: 3.95 min Scan# 363
 Delta R.T. -0.02 min
 Lab File: VL038306.D
 Acq: 27 Jan 2022 21:15

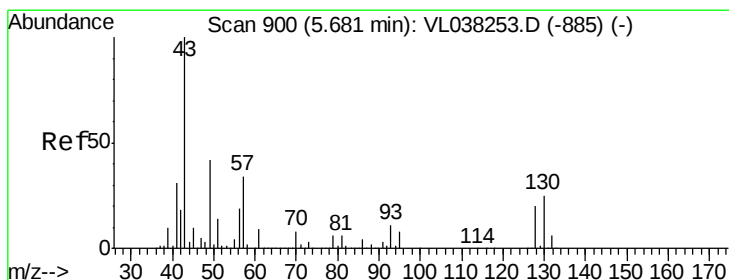
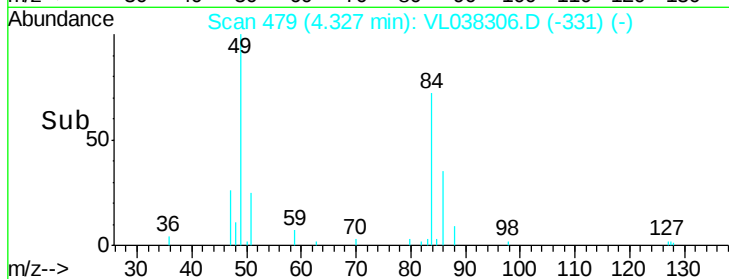
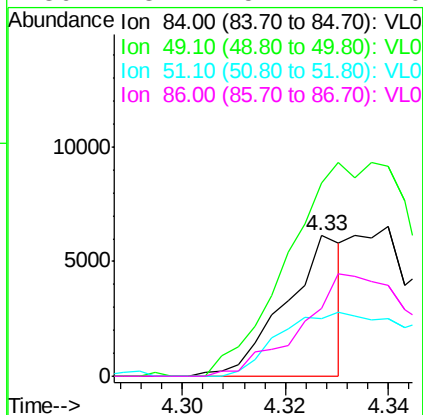
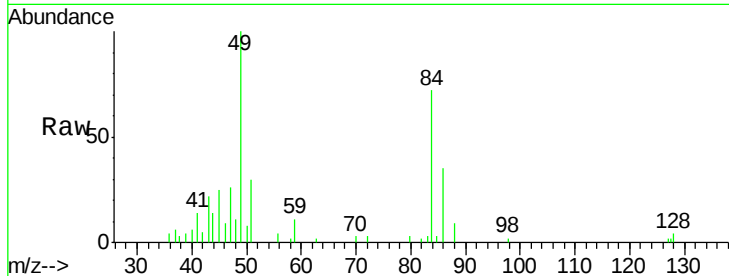
Tgt Ion: 45 Resp: 1140722
 Ion Ratio Lower Upper
 45 100
 58 1.5 2.3 3.5#





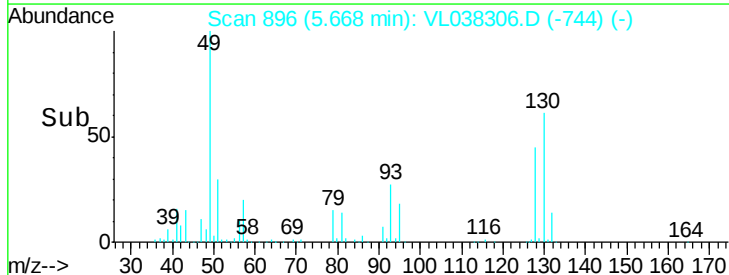
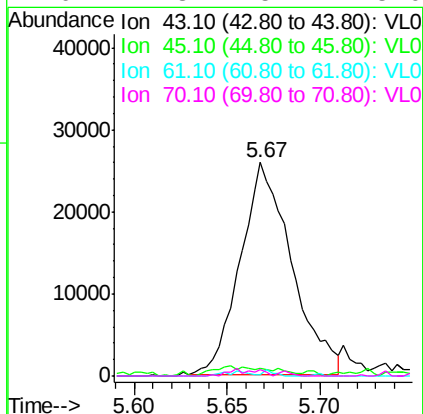
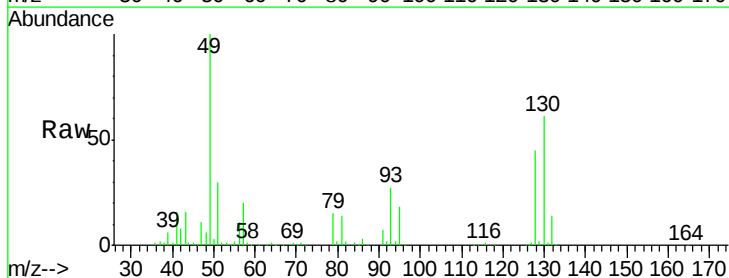
#20
Methylene Chloride
Concen: 0.121 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jan 2022 21:15

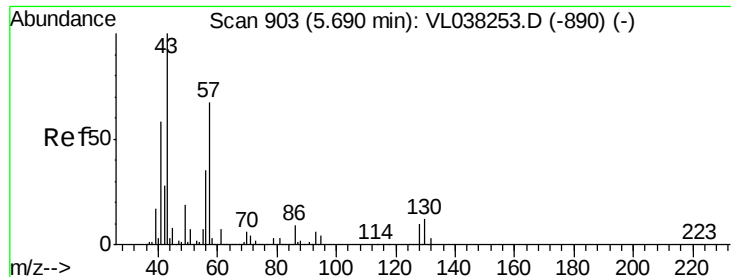
Tgt Ion:	84	Resp:	4681
Ion	Ratio	Lower	Upper
84	100		
49	138.0	115.0	172.6
51	40.7	35.0	52.6
86	48.1	51.4	77.0#



#25
Ethyl Acetate
Concen: 0.266 ppbv
RT: 5.67 min Scan# 896
Delta R.T. -0.01 min
Lab File: VL038306.D
Acq: 27 Jan 2022 21:15

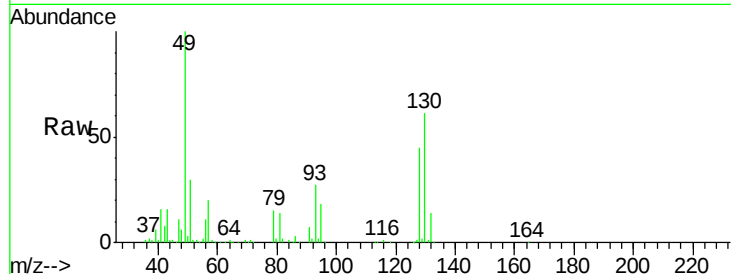
Tgt Ion:	43	Resp:	49767
Ion	Ratio	Lower	Upper
43	100		
45	6.3	7.9	11.9#
61	1.9	7.8	11.8#
70	2.3	5.4	8.0#



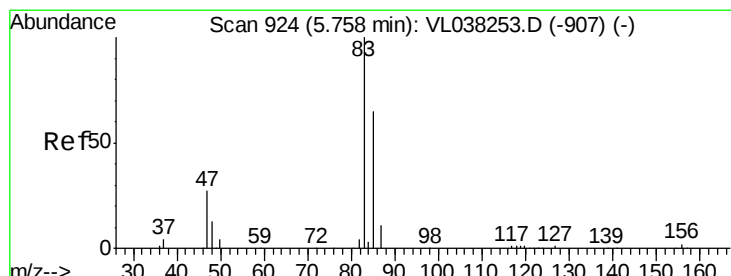
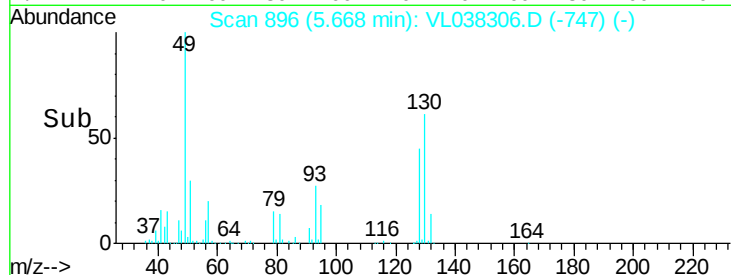
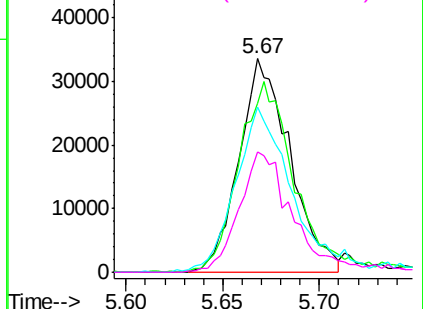


#26
Hexane
Concen: 0.708 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jan 2022 21:15

Tgt Ion:	57	Resp:	61539
Ion	Ratio	Lower	Upper
57	100		
41	102.1	72.8	109.2
43	90.3	177.0	265.6#
56	61.5	43.3	64.9

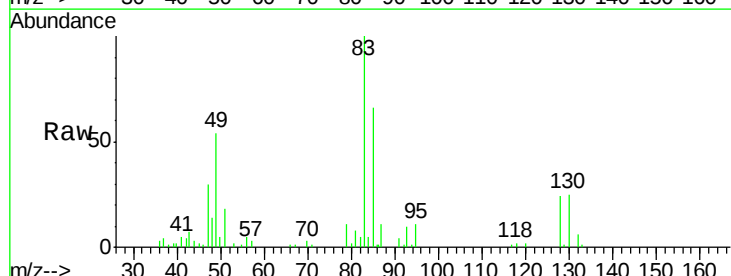


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

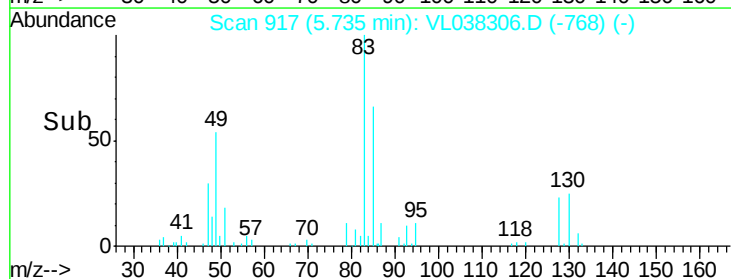
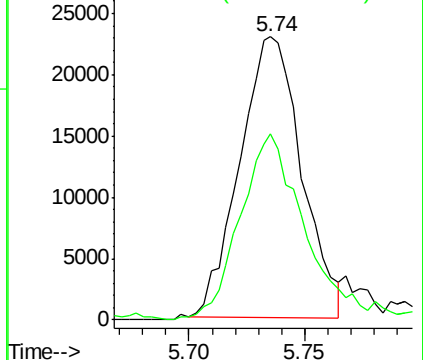


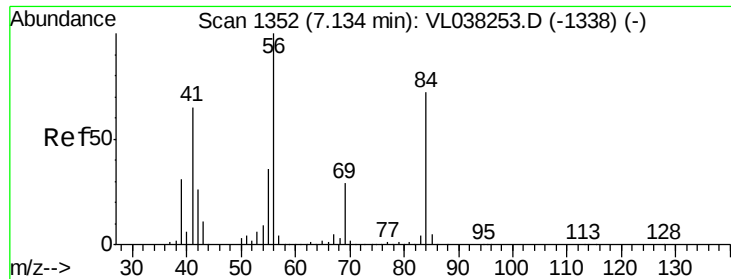
#29
Chloroform
Concen: 0.300 ppbv
RT: 5.74 min Scan# 917
Delta R.T. -0.02 min
Lab File: VL038306.D
Acq: 27 Jan 2022 21:15

Tgt Ion:	83	Resp:	42588
Ion	Ratio	Lower	Upper
83	100		
85	65.3	51.9	77.9



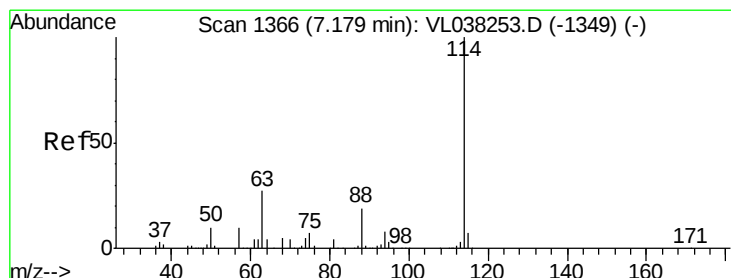
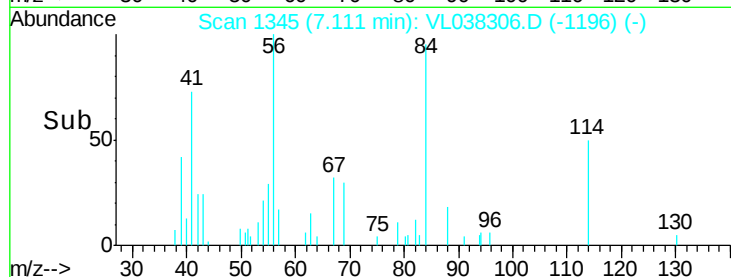
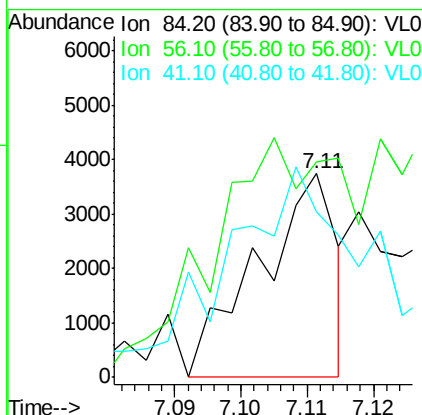
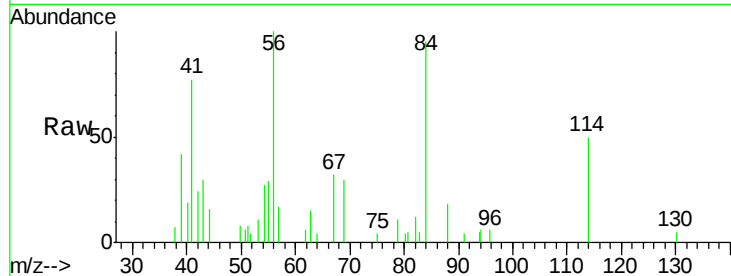
Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





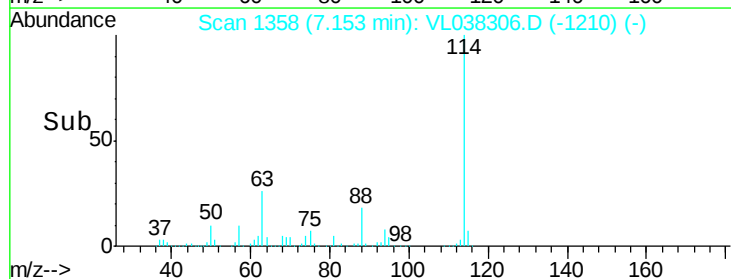
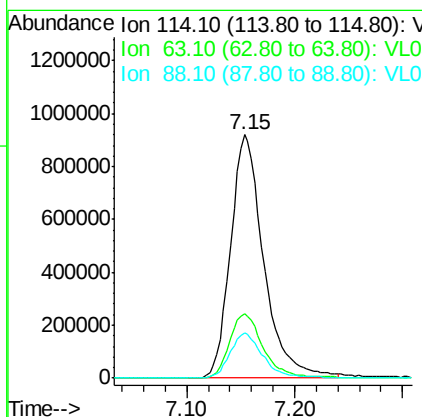
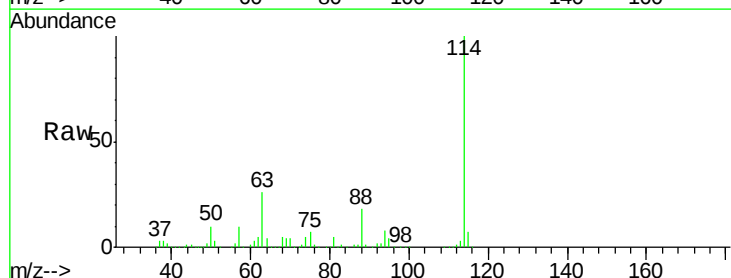
#30
Cyclohexane
Concen: 0.041 ppbv
RT: 7.11 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 27 Jan 2022 21:15

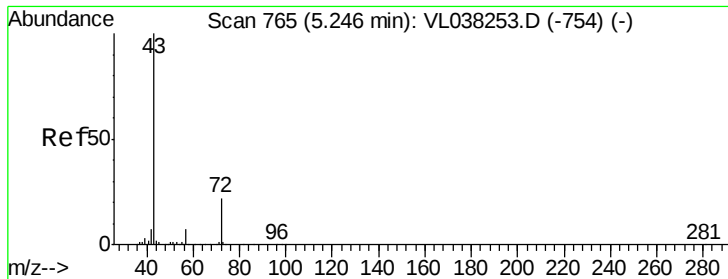
Tgt Ion: 84 Resp: 3074
Ion Ratio Lower Upper
84 100
56 0.0 112.7 169.1#
41 253.5 71.1 106.7#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.15 min Scan# 1358
Delta R.T.: -0.03 min
Lab File: VL038306.D
Acq: 27 Jan 2022 21:15

Tgt Ion: 114 Resp: 1974290
Ion Ratio Lower Upper
114 100
63 27.4 22.0 33.0
88 18.9 15.0 22.6





#34

2-Butanone

Concen: 0.083 ppbv

RT: 5.23 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

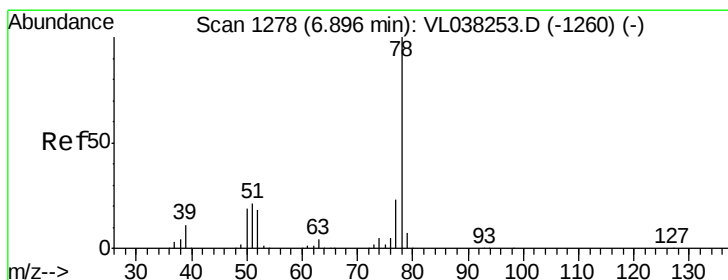
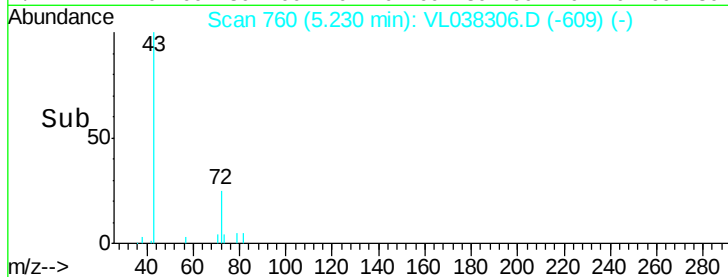
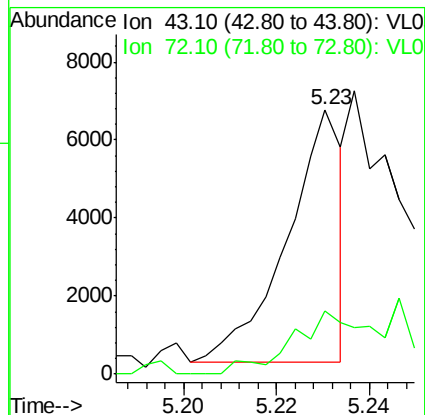
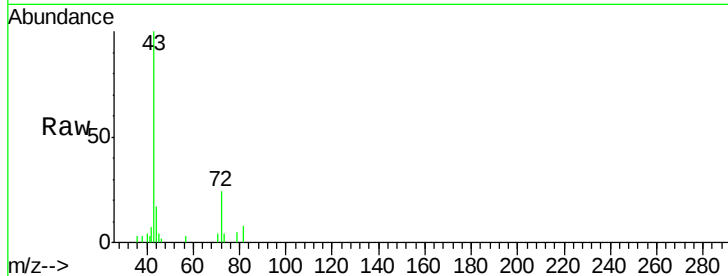
Acq: 27 Jan 2022 21:15

Tgt Ion: 43 Resp: 5384

Ion Ratio Lower Upper

43 100

72 0.0 18.1 27.1#



#36

Benzene

Concen: 0.148 ppbv

RT: 6.87 min Scan# 1271

Delta R.T. -0.02 min

Lab File: VL038306.D

Acq: 27 Jan 2022 21:15

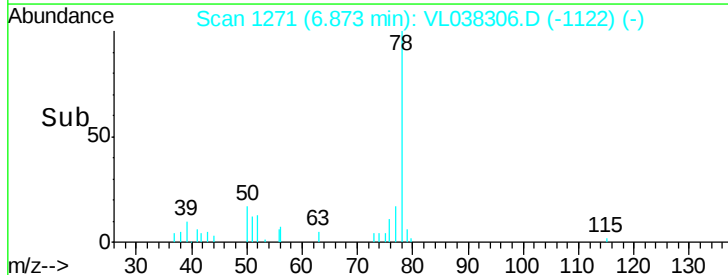
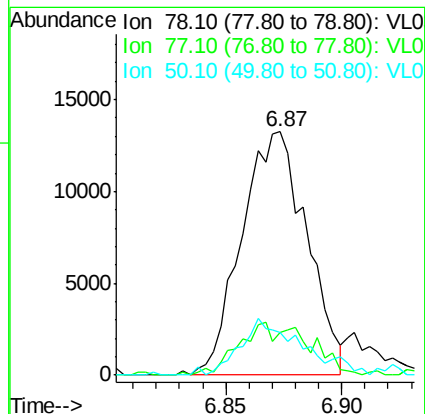
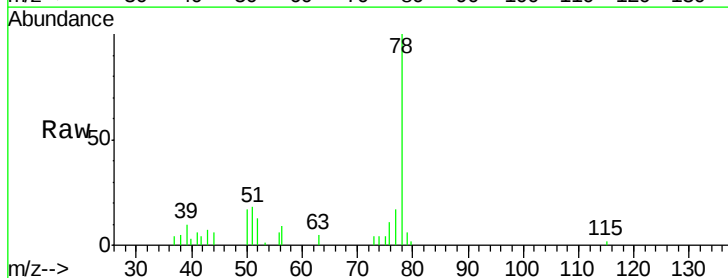
Tgt Ion: 78 Resp: 25903

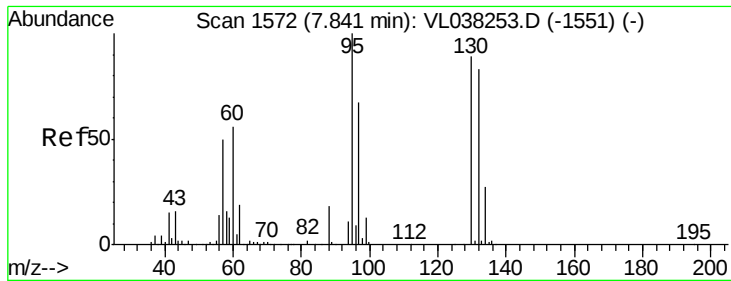
Ion Ratio Lower Upper

78 100

77 17.7 18.2 27.2#

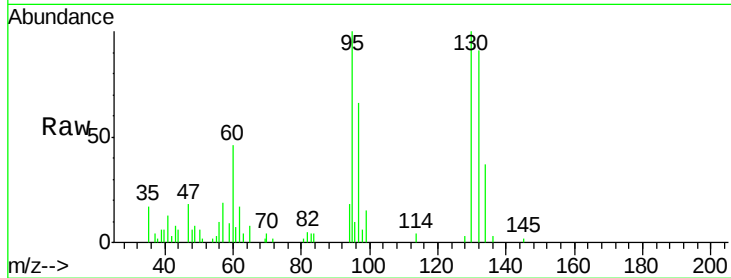
50 15.8 15.1 22.7





#38
 Trichloroethene
 Concen: 0.152 ppbv
 RT: 7.82
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 21:15

Tgt Ion:	130	Resp:	9891
Ion Ratio	Lower	Upper	
130	100		
95	91.7	89.4	134.2
132	91.5	74.6	111.8
97	62.5	59.6	89.4

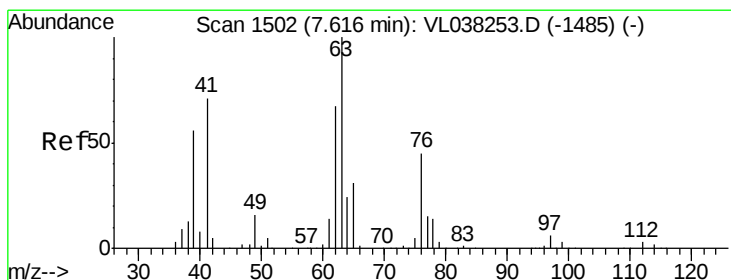
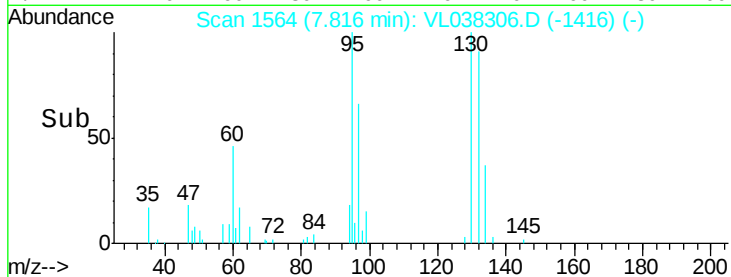
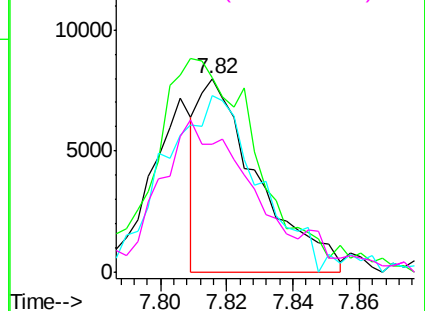


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

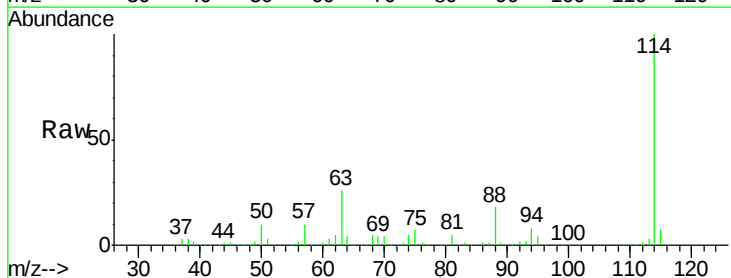
Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#39
 1,2-Dichloropropane
 Concen: 7.313 ppbv
 RT: 7.15 min Scan# 1358
 Delta R.T. -0.46 min
 Lab File: VL038306.D
 Acq: 27 Jan 2022 21:15

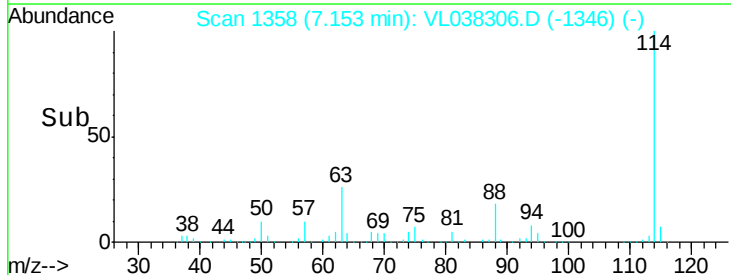
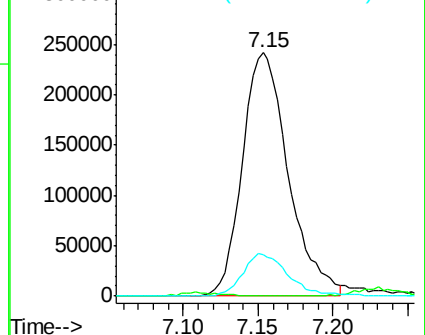
Tgt Ion:	63	Resp:	517779
Ion Ratio	Lower	Upper	
63	100		
41	0.0	56.6	85.0#
62	17.2	53.9	80.9#

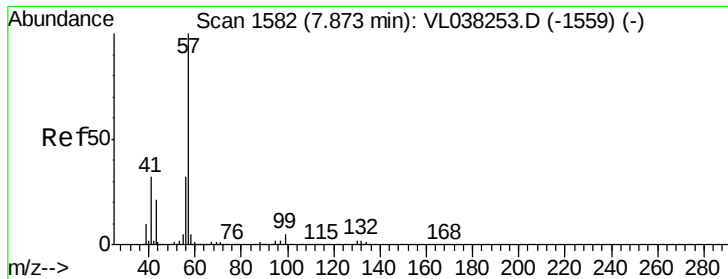


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

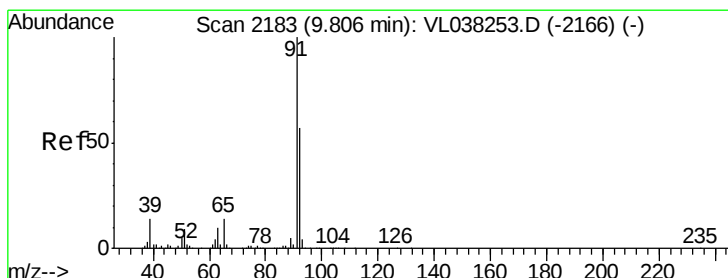
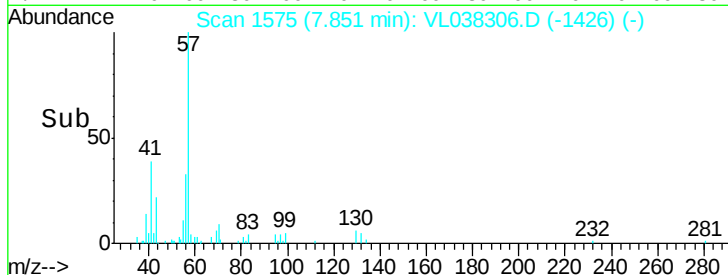
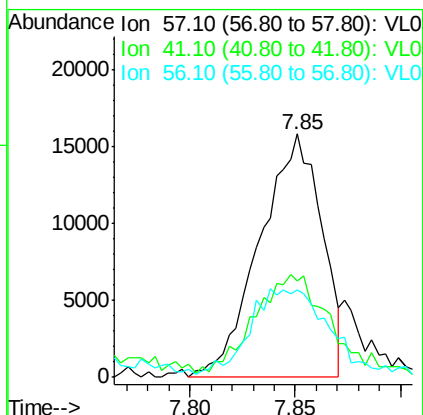
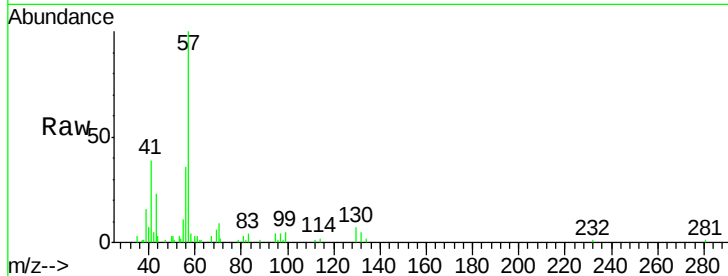
Ion 62.10 (61.80 to 62.80): VL0





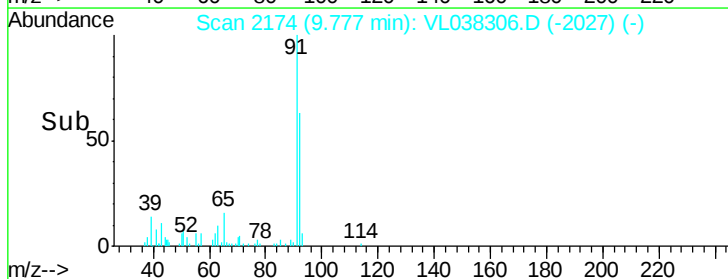
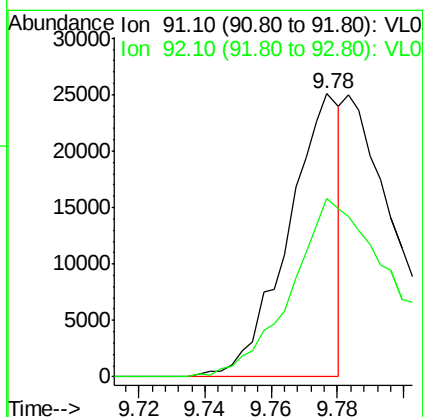
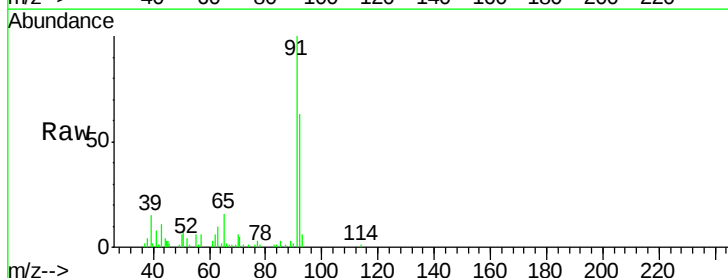
#44
 2,2,4-Trimethylpentane
 Concen: 0.105 ppbv
 RT: 7.85
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jan 2022 21:15

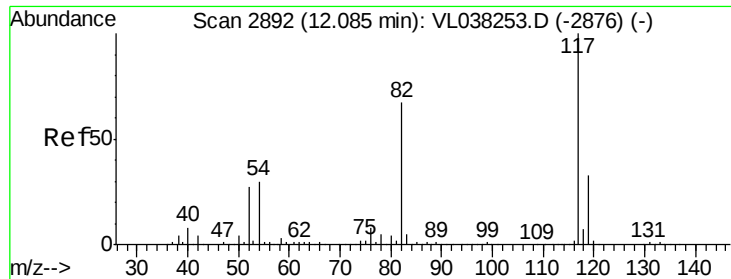
Tgt Ion: 57 Resp: 32361
 Ion Ratio Lower Upper
 57 100
 41 56.9 26.3 39.5#
 56 48.2 25.2 37.8#



#53
 Toluene
 Concen: 0.141 ppbv
 RT: 9.78 min Scan# 2174
 Delta R.T. -0.03 min
 Lab File: VL038306.D
 Acq: 27 Jan 2022 21:15

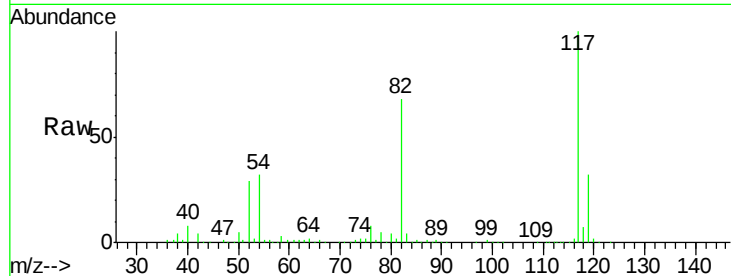
Tgt Ion: 91 Resp: 27346
 Ion Ratio Lower Upper
 91 100
 92 126.5 47.4 71.0#



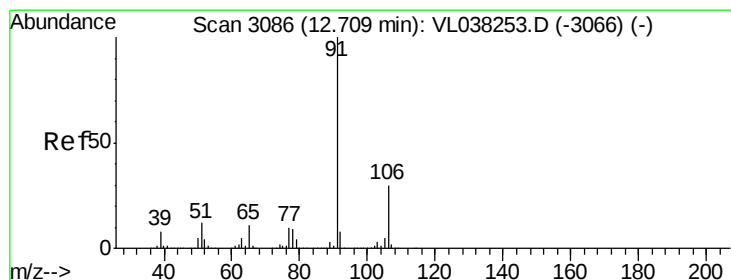
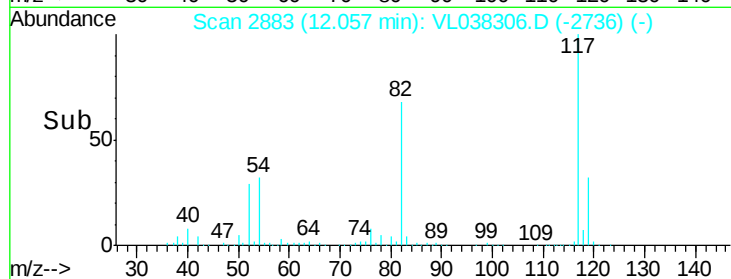
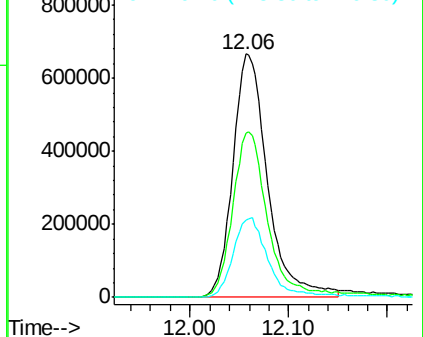


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Jan 2022 21:15

Tgt Ion: 117 Resp: 1634779
Ion Ratio Lower Upper
117 100
82 71.9 54.4 81.6
119 33.2 45.9 68.9#

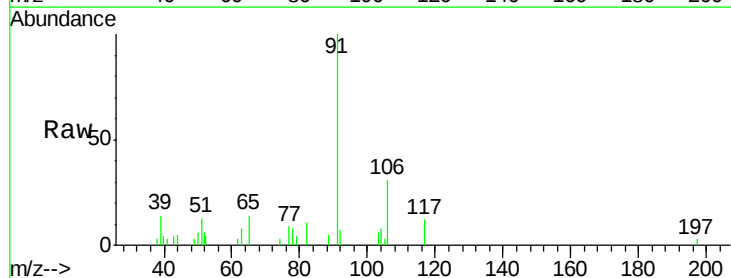


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

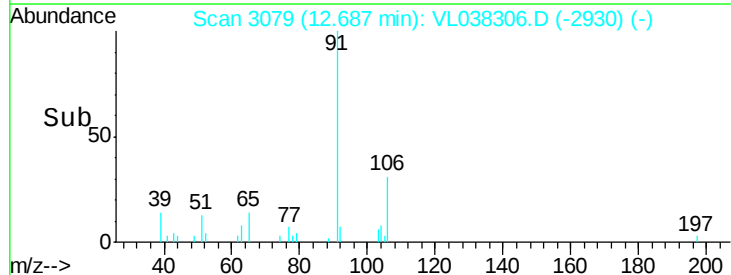
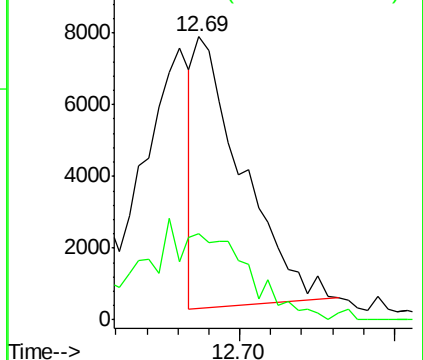


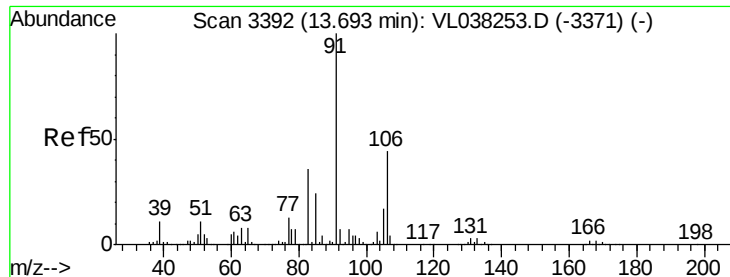
#58
Ethyl Benzene
Concen: 0.033 ppbv
RT: 12.69 min Scan# 3079
Delta R.T. -0.02 min
Lab File: VL038306.D
Acq: 27 Jan 2022 21:15

Tgt Ion: 91 Resp: 8013
Ion Ratio Lower Upper
91 100
106 30.6 24.1 36.1



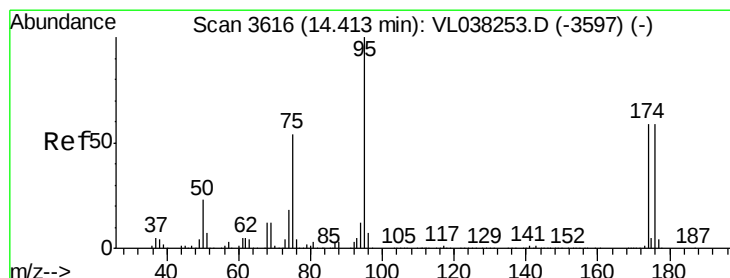
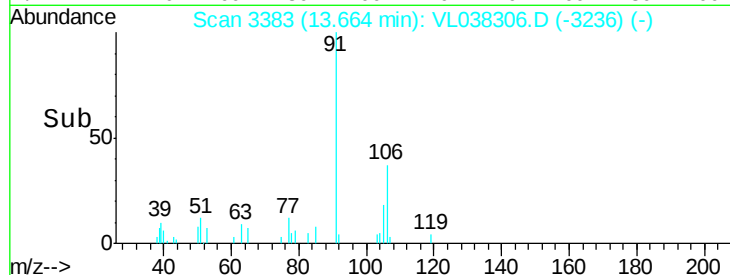
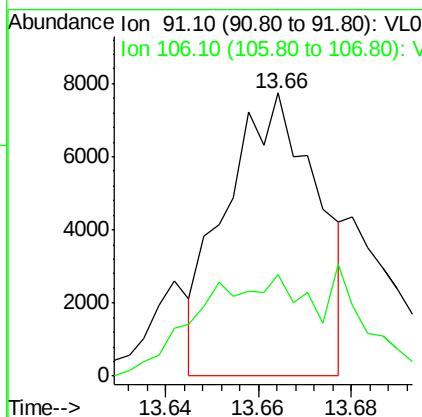
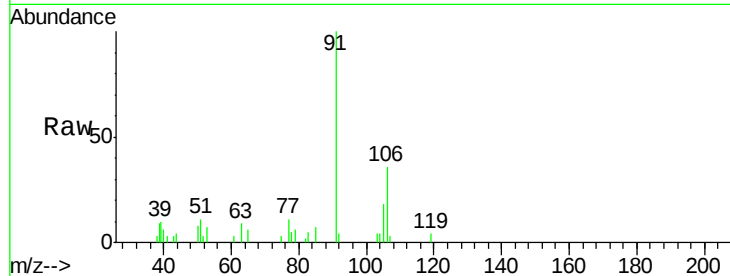
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





#60
o-Xylene
Concen: 0.056 ppbv
RT: 13.66
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 27 Jan 2022 21:15

Tgt Ion: 91 Resp: 10600
Ion Ratio Lower Upper
91 100
106 0.0 22.2 66.6#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.652 ppbv
RT: 14.39 min Scan# 3608
Delta R.T. -0.03 min
Lab File: VL038306.D
Acq: 27 Jan 2022 21:15

Tgt Ion: 95 Resp: 1197672
Ion Ratio Lower Upper
95 100
174 61.7 48.3 72.5
175 4.6 3.5 5.3

