

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL012622\
 Data File : VL038290.D
 Acq On : 26 Jan 2022 16:06
 Operator : SY/AP
 Sample : N1268-02
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA-1

Quant Time: Jan 27 02:54:36 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

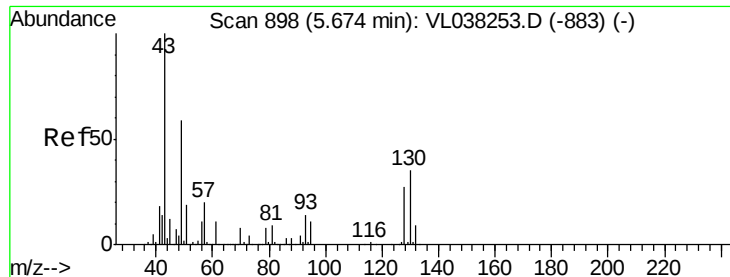
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	778550	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.15	114	2090879	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.05	117	1728563	10.00	ppbv	-0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.38	95	1289959	9.83	ppbv	-0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.30%

Target Compounds						Qvalue
2) Dichlorodifluoromethane	3.04	85	77866	0.470	ppbv	93
3) Chlorodifluoromethane	2.98	51	42740	0.276	ppbv #	85
4) Chloromethane	3.13	50	23683	0.444	ppbv	97
9) Propene	3.20	41	34830	0.690	ppbv	83
11) Trichlorofluoromethane	3.93	101	23519	0.182	ppbv	97
13) Ethanol	3.59	45	90021	16.620	ppbv #	21
15) Acetone	3.84	43	192827	2.810	ppbv	94
16) 1,3-Butadiene	3.31	39	1680	0.034	ppbv #	80
19) Isopropyl Alcohol	3.96	45	34187	0.796	ppbv #	91
20) Methylene Chloride	4.33	84	14616	0.366	ppbv #	81
23) Vinyl Acetate	5.05	43	4793	0.048	ppbv #	76
25) Ethyl Acetate	5.66	43	15574	0.081	ppbv #	96
26) Hexane	5.66	57	6461	0.072	ppbv #	36
34) 2-Butanone	5.23	43	8455	0.124	ppbv #	53
36) Benzene	6.87	78	33558	0.181	ppbv	96
39) 1,2-Dichloropropane	7.15	63	541865	7.227	ppbv #	26
53) Toluene	9.78	91	30230	0.148	ppbv	97

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA-1

Acq: 26 Jan 2022 16:00

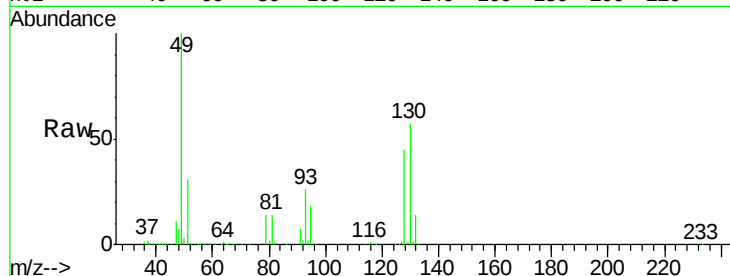
Tgt Ion: 49 Resp: 778550

Ion Ratio Lower Upper

49 100

128 49.7 24.5 73.5

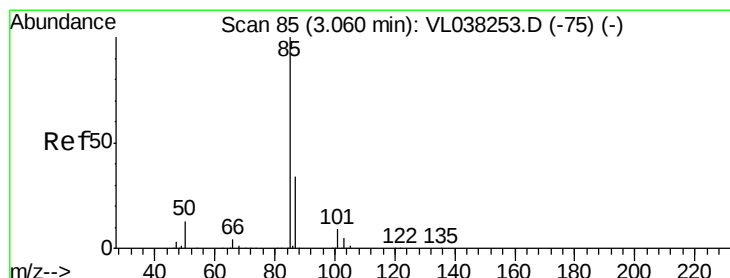
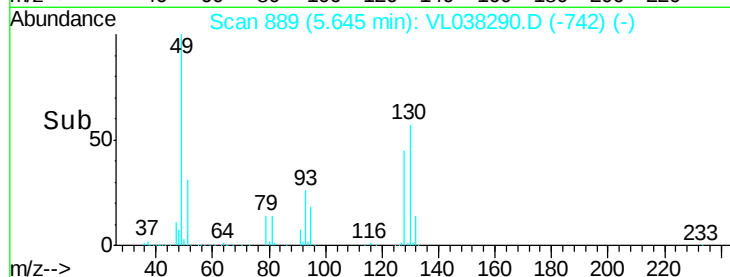
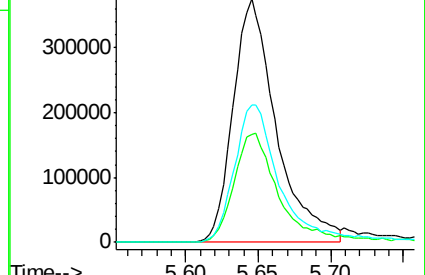
130 62.1 30.1 90.5



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: 0.470 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.02 min

Lab File: VL038290.D

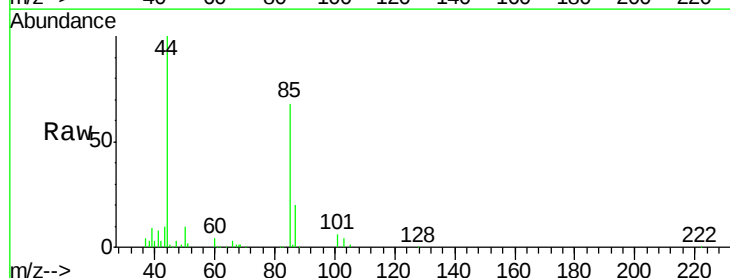
Acq: 26 Jan 2022 16:00

Tgt Ion: 85 Resp: 77866

Ion Ratio Lower Upper

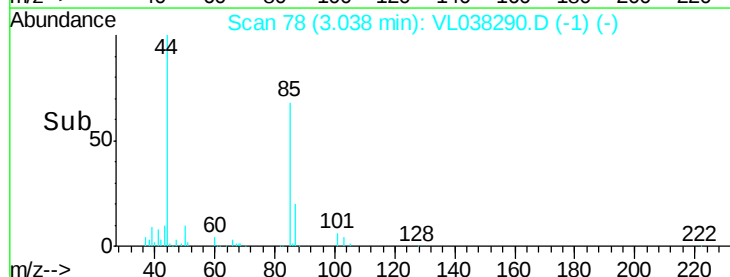
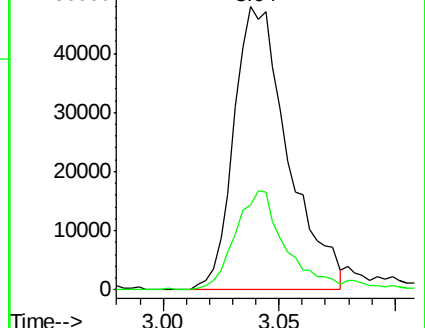
85 100

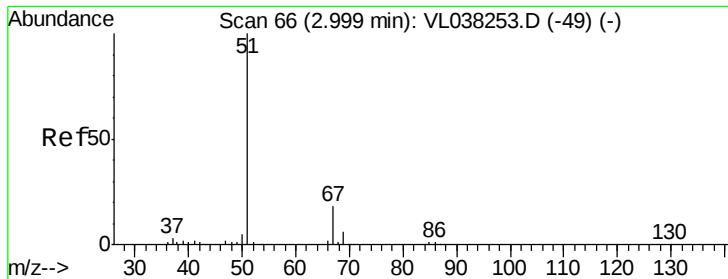
87 30.0 27.0 40.6



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.276 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: OA-1

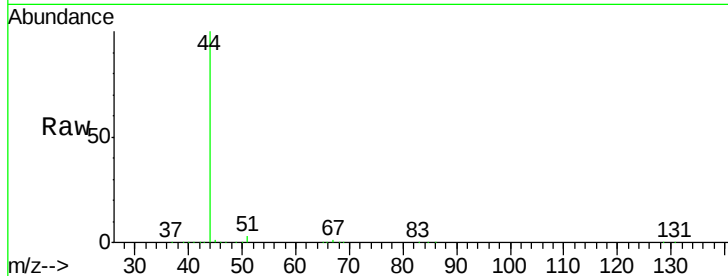
Acq: 26 Jan 2022 16:06

Tgt Ion: 51 Resp: 42740

Ion Ratio Lower Upper

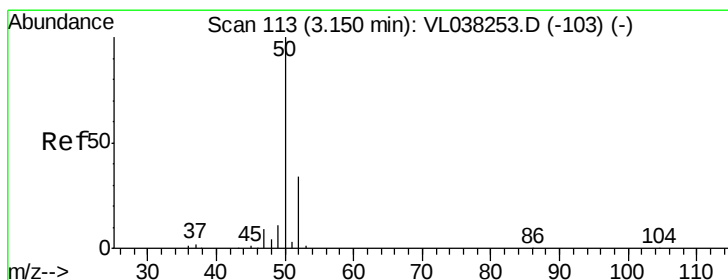
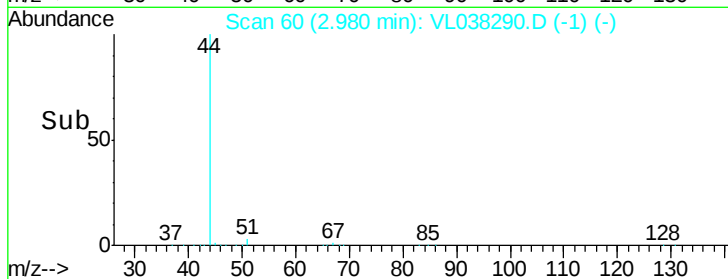
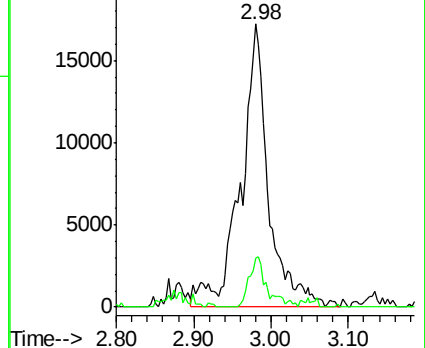
51 100

67 11.4 14.4 21.6#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.444 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.02 min

Lab File: VL038290.D

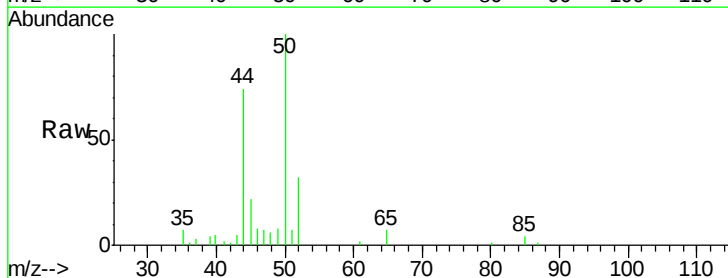
Acq: 26 Jan 2022 16:06

Tgt Ion: 50 Resp: 23683

Ion Ratio Lower Upper

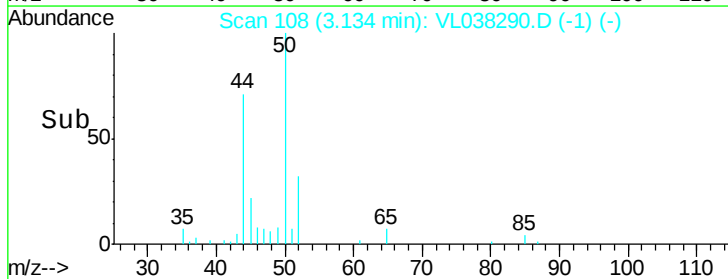
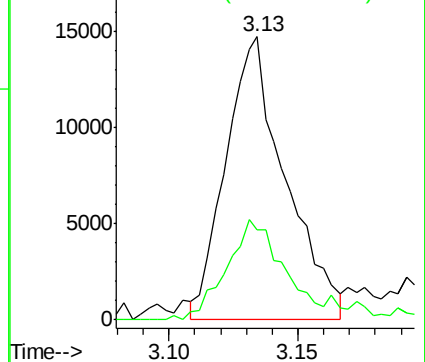
50 100

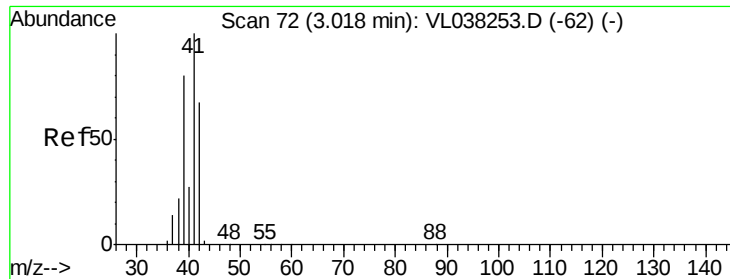
52 31.9 27.1 40.7



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.690 ppbv

RT: 3.20 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

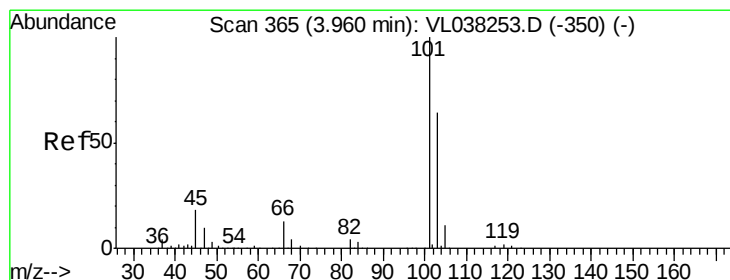
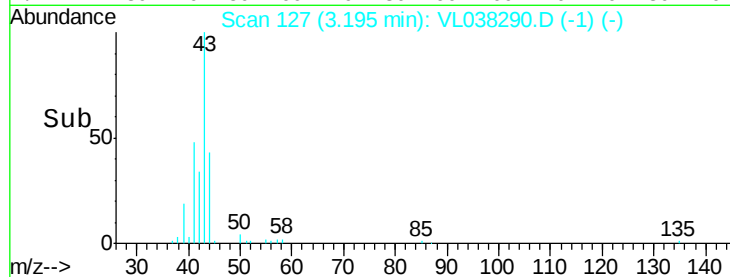
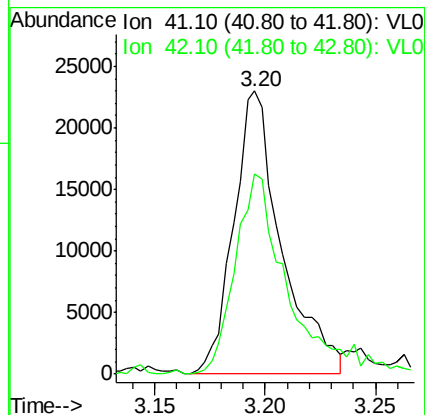
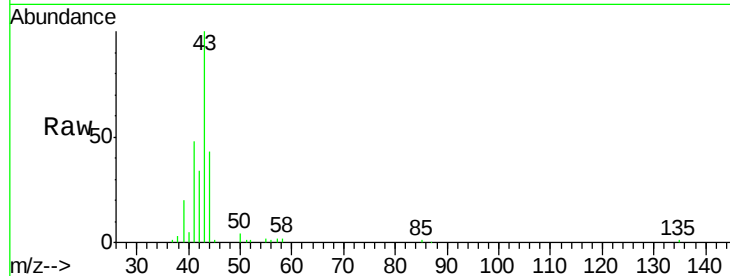
Acq: 26 Jan 2022 16:00

Tgt Ion: 41 Resp: 34830

Ion Ratio Lower Upper

41 100

42 82.3 54.9 82.3



#11

Trichlorofluoromethane

Concen: 0.182 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.03 min

Lab File: VL038290.D

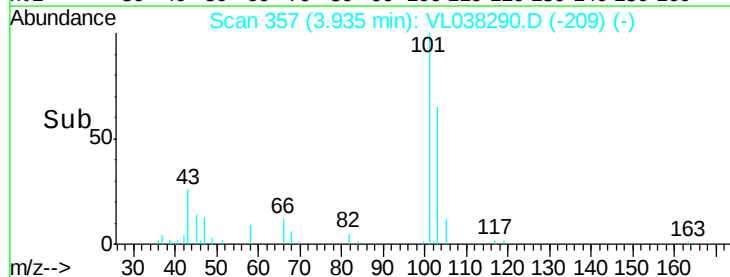
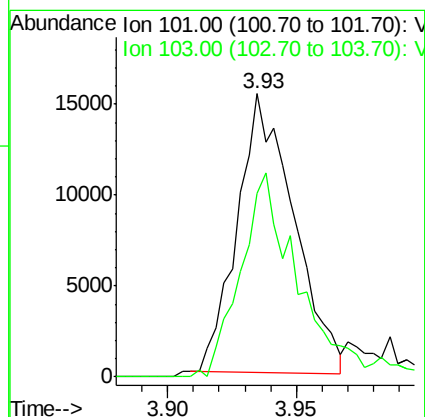
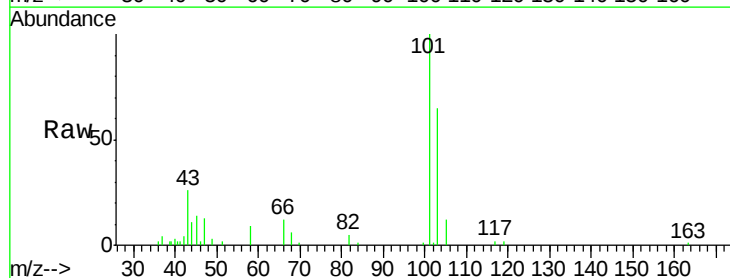
Acq: 26 Jan 2022 16:06

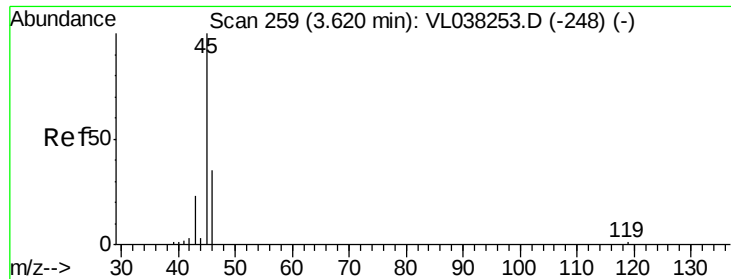
Tgt Ion: 101 Resp: 23519

Ion Ratio Lower Upper

101 100

103 66.1 51.2 76.8





#13

Ethanol

Concen: 16.620 ppbv

RT: 3.59 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

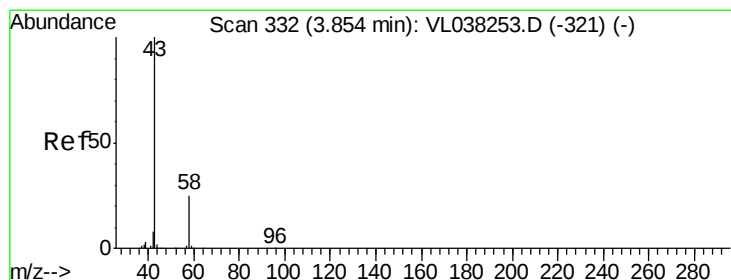
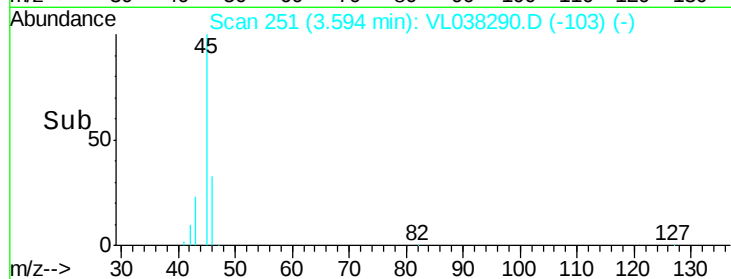
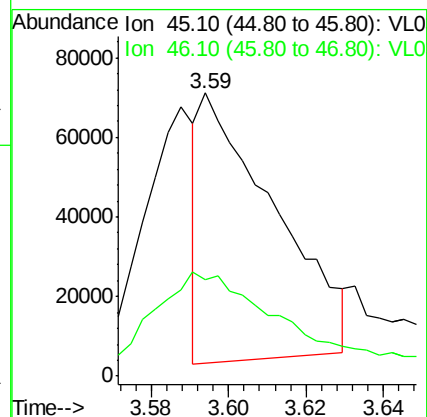
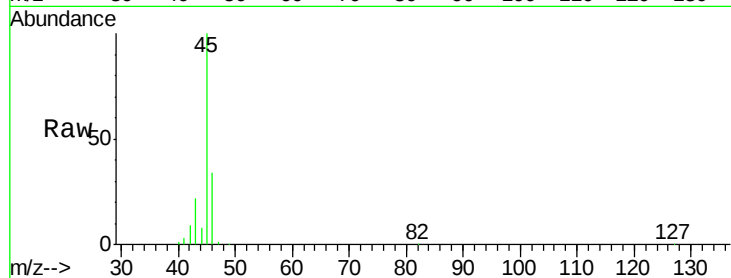
Acq: 26 Jan 2022 16:00

Tgt Ion: 45 Resp: 90021

Ion Ratio Lower Upper

45 100

46 86.7 15.4 61.6#



#15

Acetone

Concen: 2.810 ppbv

RT: 3.84 min Scan# 327

Delta R.T. -0.02 min

Lab File: VL038290.D

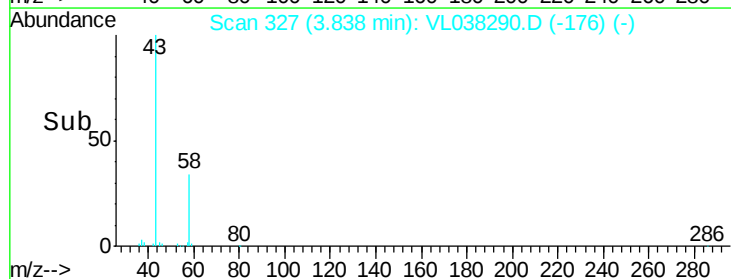
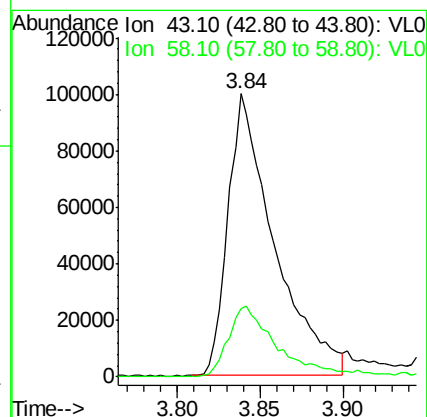
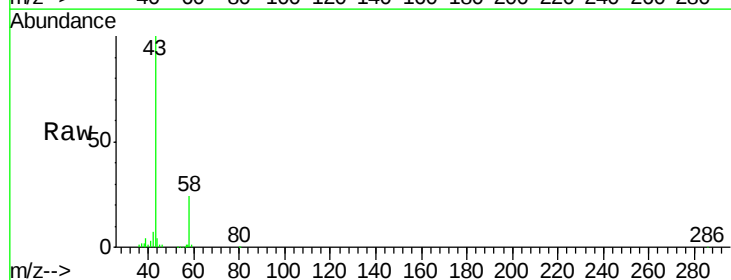
Acq: 26 Jan 2022 16:06

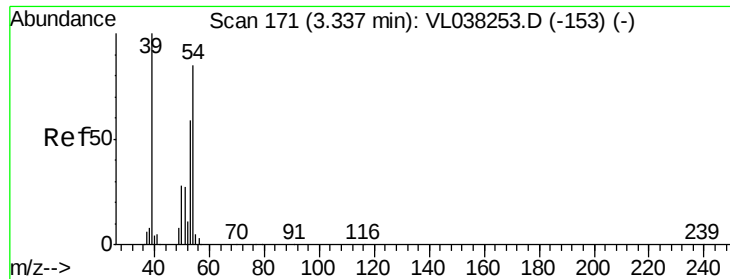
Tgt Ion: 43 Resp: 192827

Ion Ratio Lower Upper

43 100

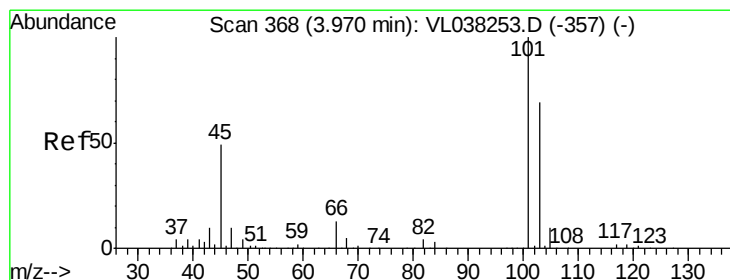
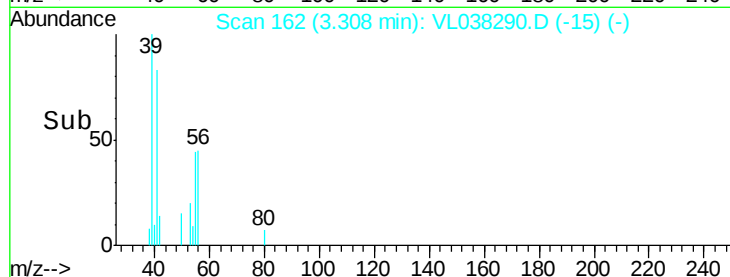
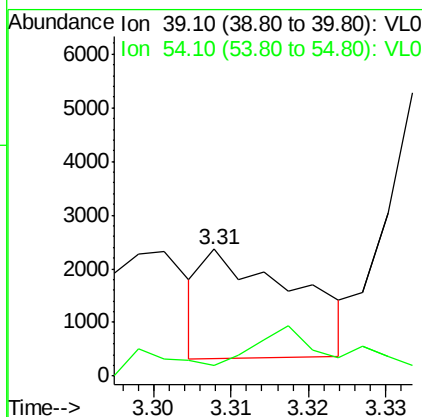
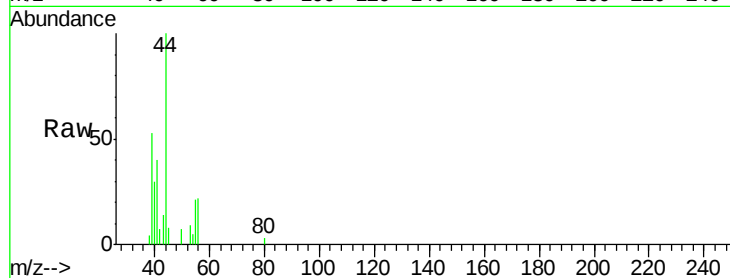
58 29.9 21.5 32.3





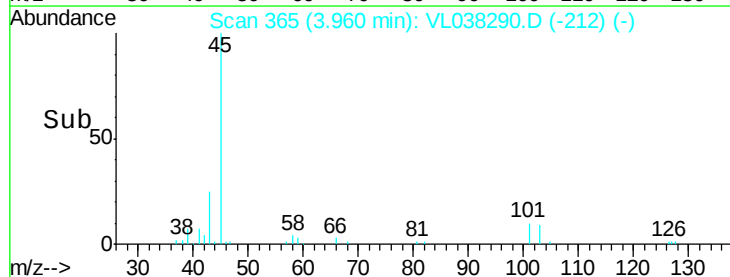
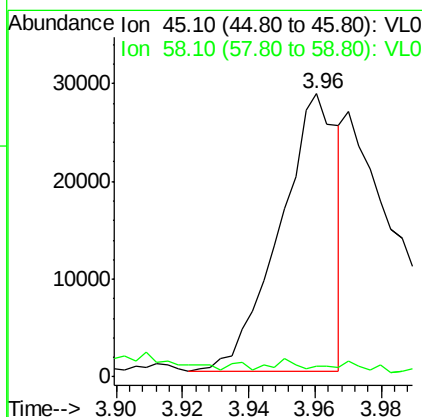
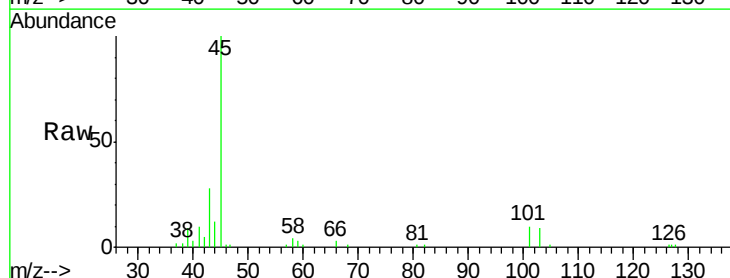
#16
 1,3-Butadiene
 Concen: 0.034 ppbv
 RT: 3.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 26 Jan 2022 16:00

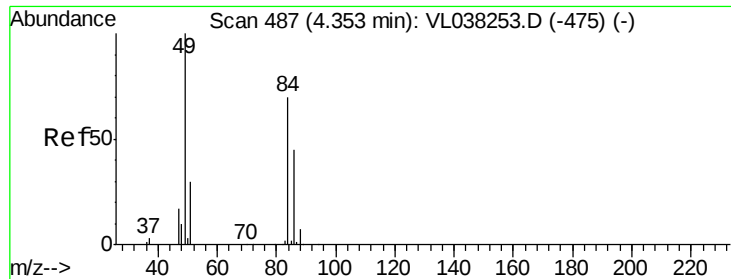
Tgt Ion: 39 Resp: 1680
 Ion Ratio Lower Upper
 39 100
 54 60.8 62.6 94.0#



#19
 Isopropyl Alcohol
 Concen: 0.796 ppbv
 RT: 3.96 min Scan# 365
 Delta R.T. -0.01 min
 Lab File: VL038290.D
 Acq: 26 Jan 2022 16:06

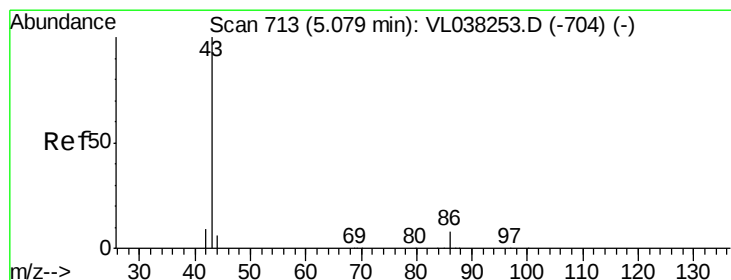
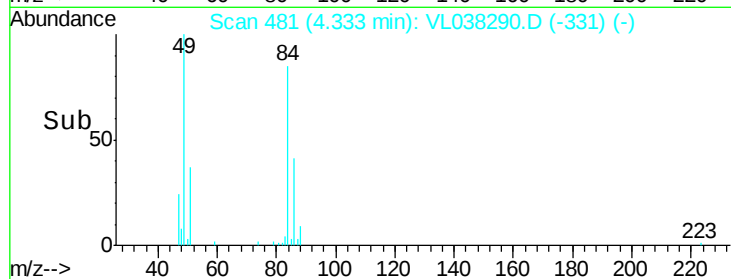
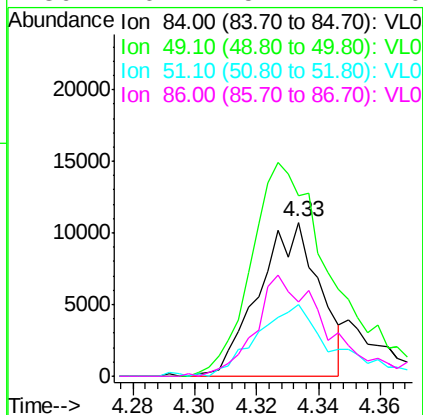
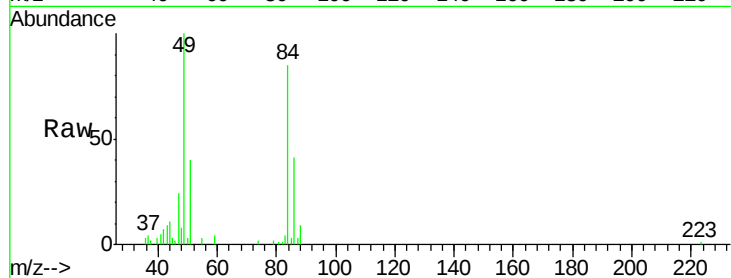
Tgt Ion: 45 Resp: 34187
 Ion Ratio Lower Upper
 45 100
 58 0.0 2.3 3.5#





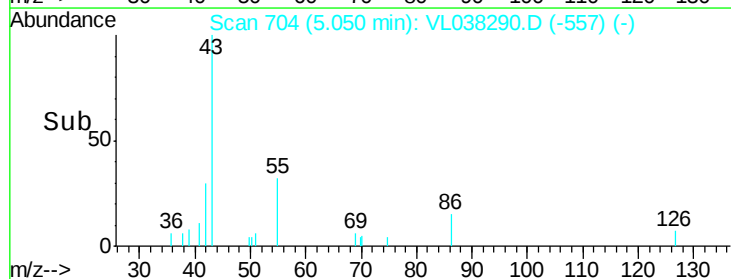
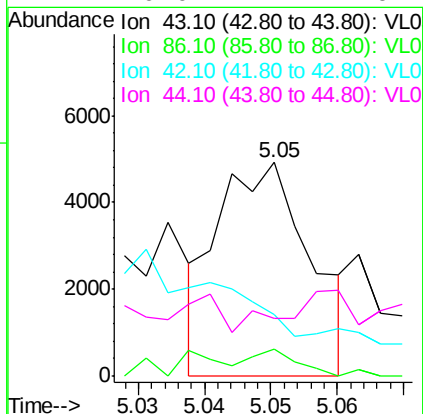
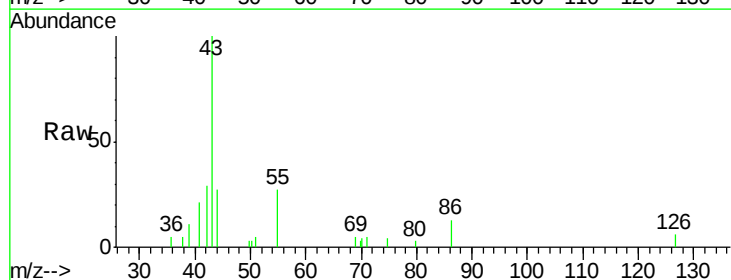
#20
Methylene Chloride
Concen: 0.366 ppbv
RT: 4.33
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 26 Jan 2022 16:06

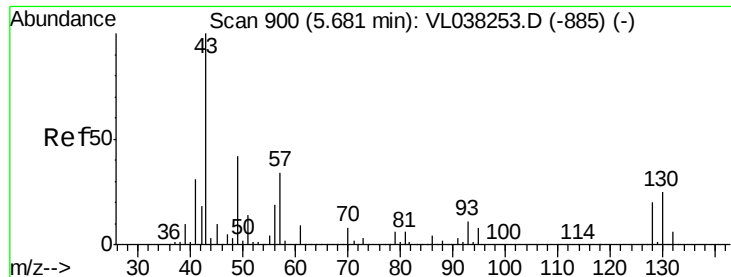
Tgt Ion: 84 Resp: 14616
Ion Ratio Lower Upper
84 100
49 117.1 115.0 172.6
51 46.4 35.0 52.6
86 46.4 51.4 77.0#



#23
Vinyl Acetate
Concen: 0.048 ppbv
RT: 5.05 min Scan# 704
Delta R.T. -0.03 min
Lab File: VL038290.D
Acq: 26 Jan 2022 16:06

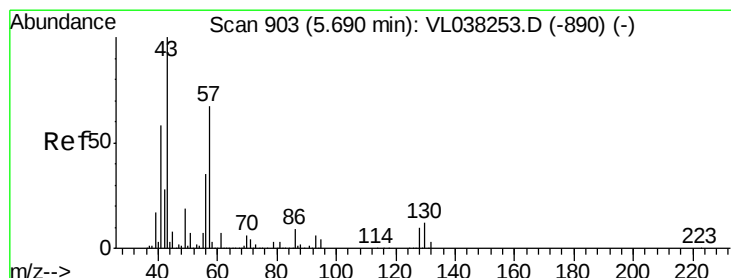
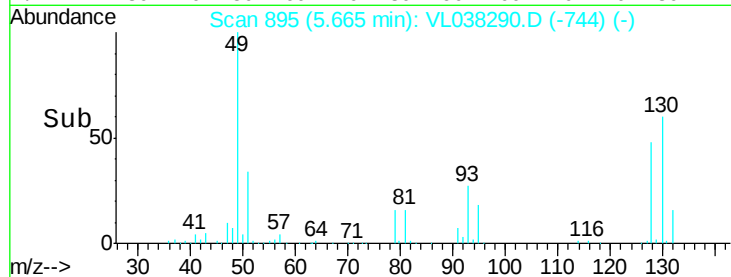
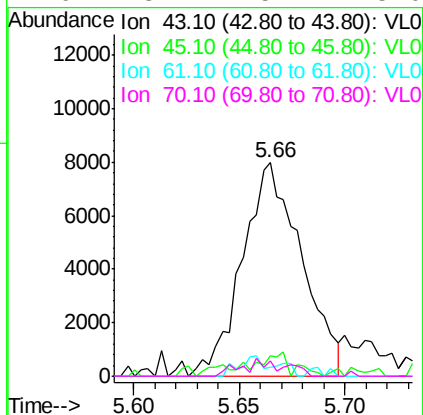
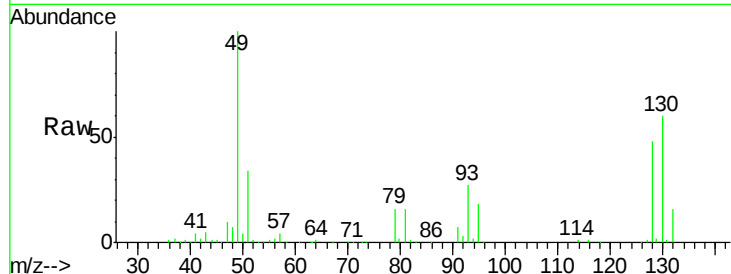
Tgt Ion: 43 Resp: 4793
Ion Ratio Lower Upper
43 100
86 24.5 5.7 8.5#
42 12.6 7.7 11.5#
44 0.0 4.2 6.4#





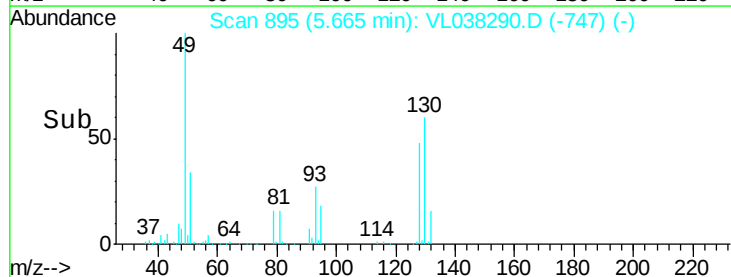
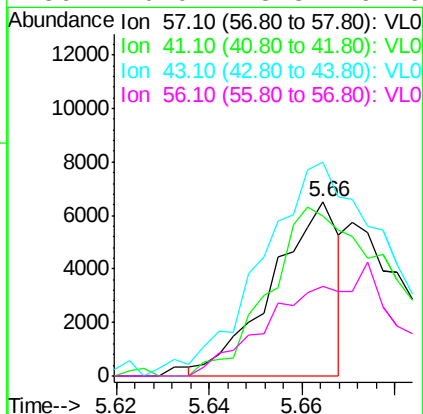
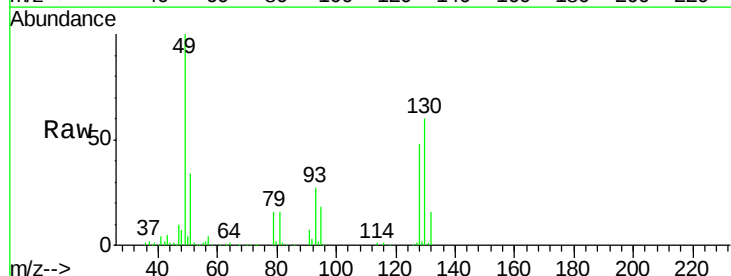
#25
Ethyl Acetate
Concen: 0.081 ppbv
RT: 5.66
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 26 Jan 2022 16:06

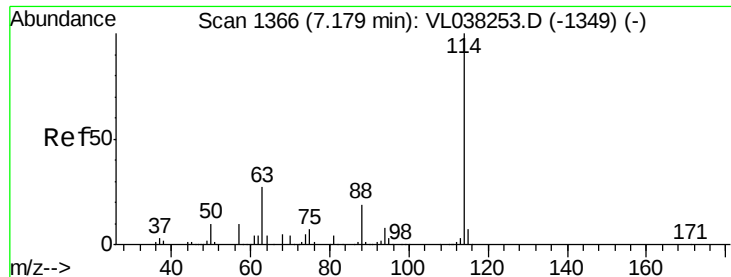
Tgt Ion:	43	Resp:	15574
Ion	Ratio	Lower	Upper
43	100		
45	9.9	7.9	11.9
61	6.9	7.8	11.8#
70	5.7	5.4	8.0



#26
Hexane
Concen: 0.072 ppbv
RT: 5.66 min Scan# 895
Delta R.T.: -0.03 min
Lab File: VL038290.D
Acq: 26 Jan 2022 16:06

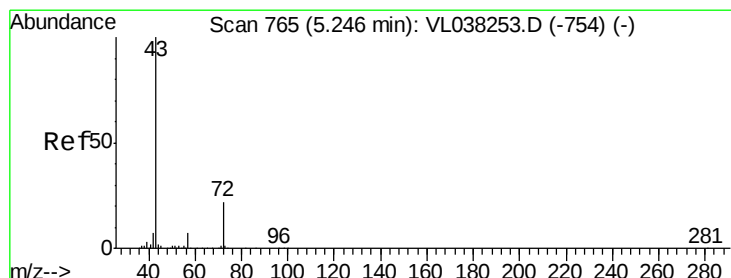
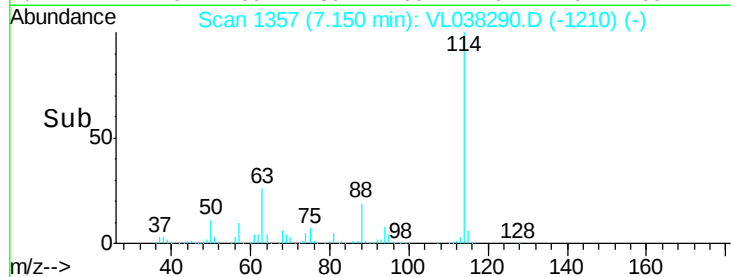
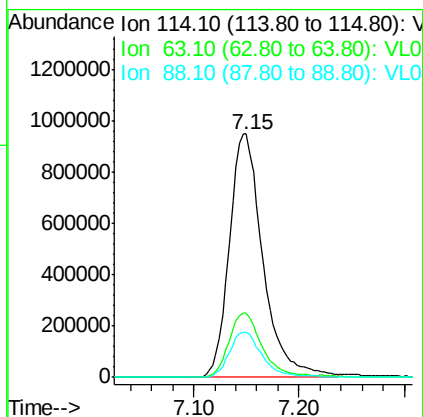
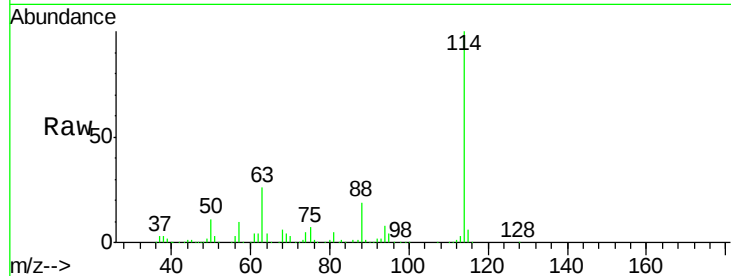
Tgt Ion:	57	Resp:	6461
Ion	Ratio	Lower	Upper
57	100		
41	209.3	72.8	109.2#
43	278.7	177.0	265.6#
56	0.0	43.3	64.9#





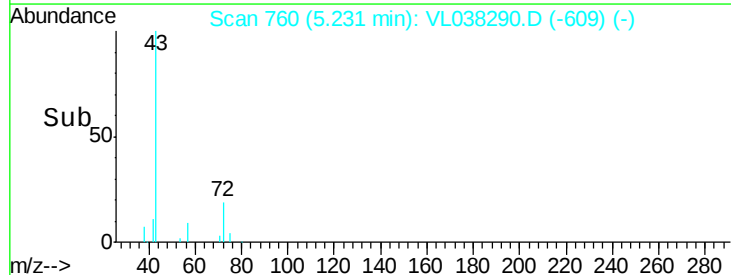
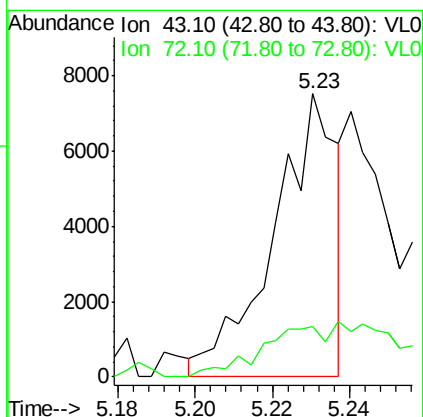
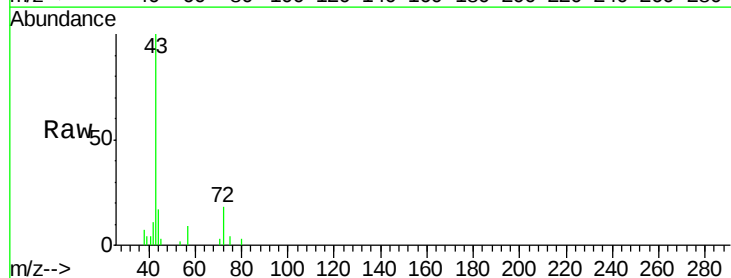
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.15
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 OA-1
 Acq: 26 Jan 2022 16:00

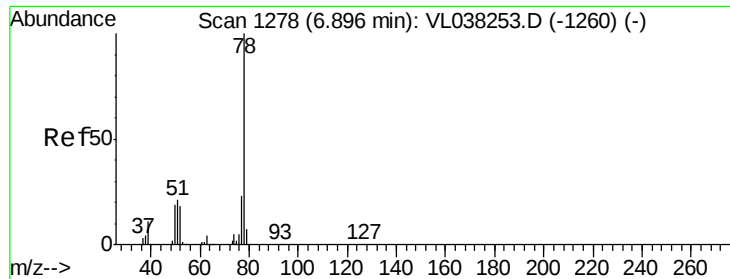
Tgt Ion: 114 Resp: 2090879
 Ion Ratio Lower Upper
 114 100
 63 26.9 22.0 33.0
 88 18.7 15.0 22.6



#34
 2-Butanone
 Concen: 0.124 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. -0.02 min
 Lab File: VL038290.D
 Acq: 26 Jan 2022 16:06

Tgt Ion: 43 Resp: 8455
 Ion Ratio Lower Upper
 43 100
 72 0.0 18.1 27.1#





#36

Benzene

Concen: 0.181 ppbv

RT: 6.87 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 26 Jan 2022 16:06

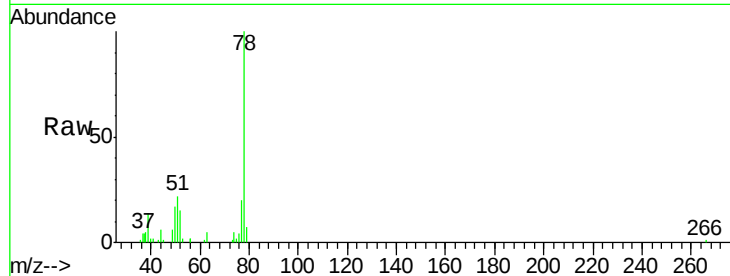
Tgt Ion: 78 Resp: 33558

Ion Ratio Lower Upper

78 100

77 20.5 18.2 27.2

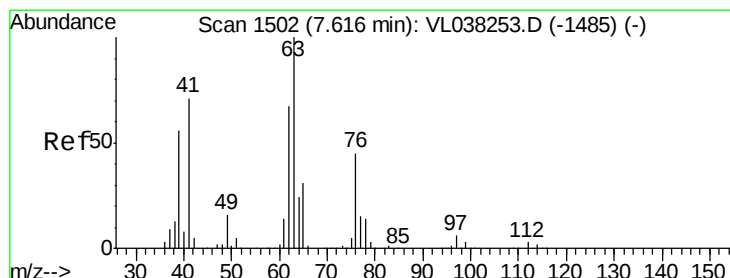
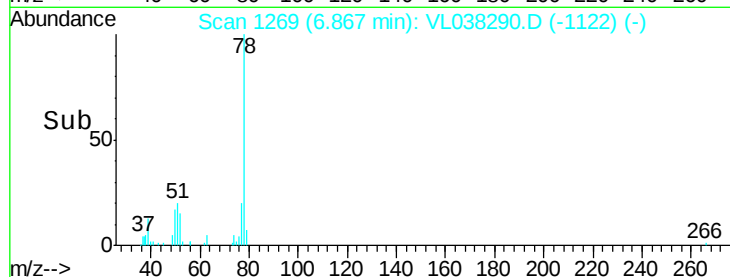
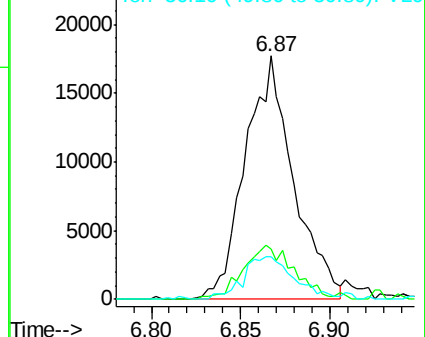
50 17.5 15.1 22.7



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



#39

1,2-Dichloropropane

Concen: 7.227 ppbv

RT: 7.15 min Scan# 1356

Delta R.T. -0.47 min

Lab File: VL038290.D

Acq: 26 Jan 2022 16:06

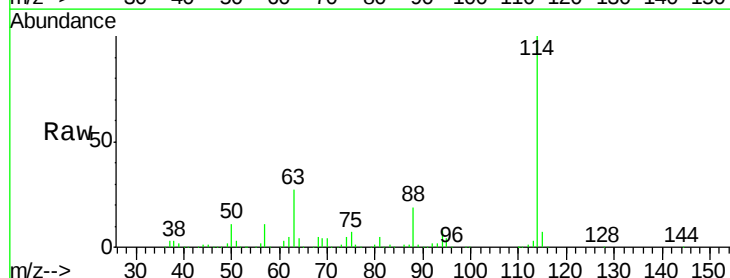
Tgt Ion: 63 Resp: 541865

Ion Ratio Lower Upper

63 100

41 0.0 56.6 85.0#

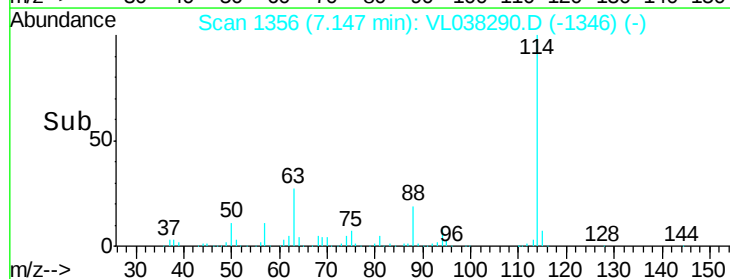
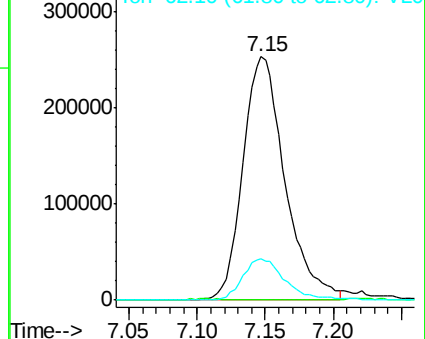
62 17.2 53.9 80.9#

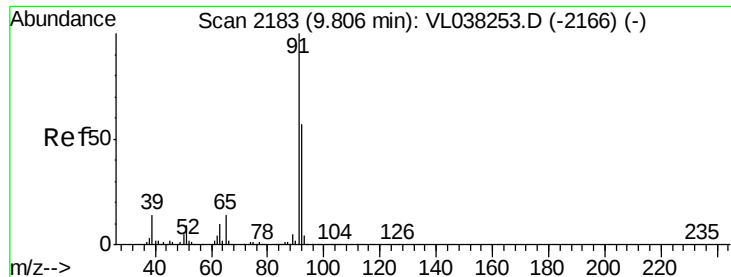


Abundance Ion 63.10 (62.80 to 63.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 62.10 (61.80 to 62.80): VL0





#53

Toluene

Concen: 0.148 ppbv

RT: 9.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

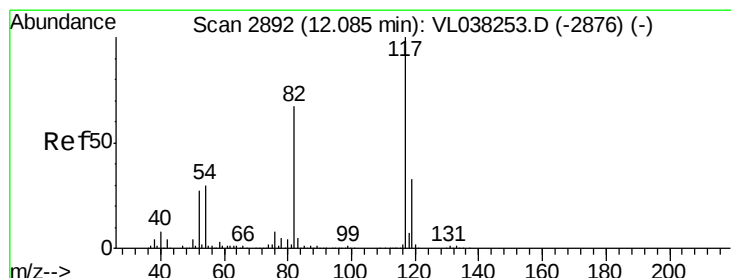
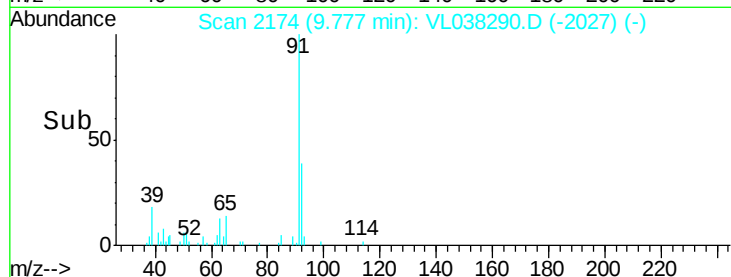
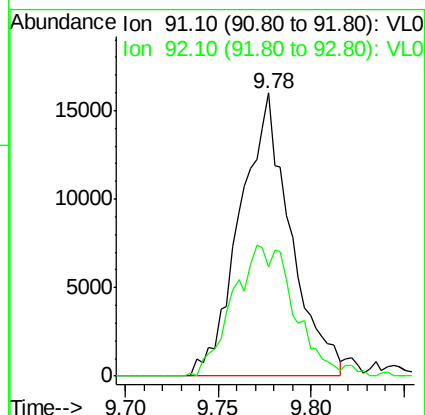
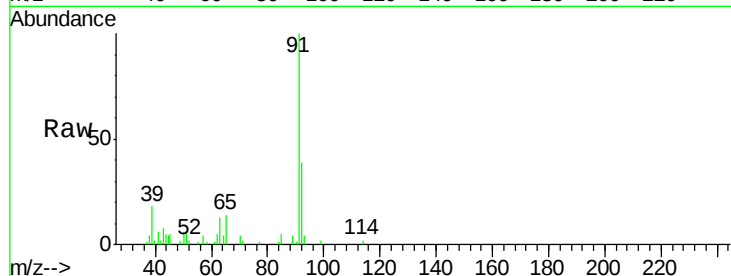
Acq: 26 Jan 2022 16:06

Tgt Ion: 91 Resp: 30230

Ion Ratio Lower Upper

91 100

92 57.0 47.4 71.0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.05 min Scan# 2882

Delta R.T. -0.03 min

Lab File: VL038290.D

Acq: 26 Jan 2022 16:06

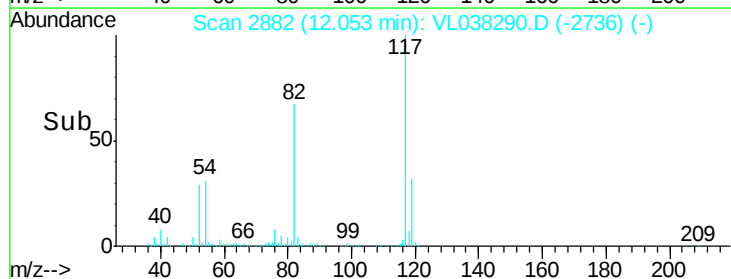
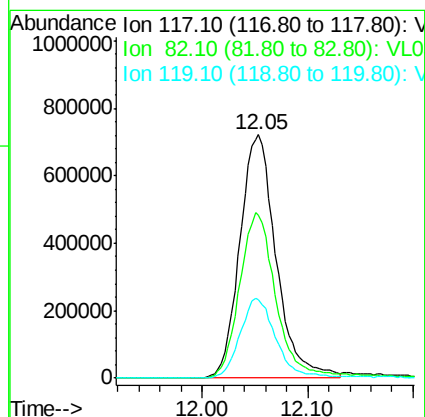
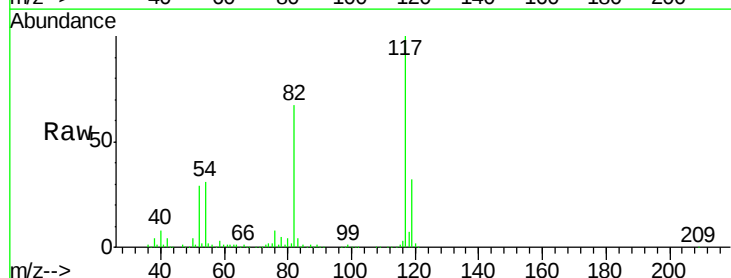
Tgt Ion: 117 Resp: 1728563

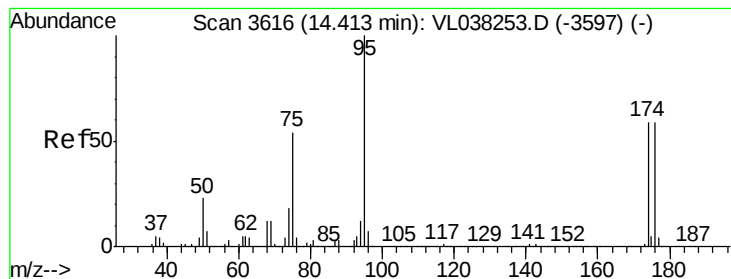
Ion Ratio Lower Upper

117 100

82 69.3 54.4 81.6

119 33.2 45.9 68.9#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.832 ppbv
 RT: 14.38
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 OA-1
 Acq: 26 Jan 2022 18:00

Tgt Ion:	95	Resp:	1289959
Ion	Ratio	Lower	Upper
95	100		
174	61.9	48.3	72.5
175	4.4	3.5	5.3

