

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032422\
 Data File : VL038759.D
 Acq On : 25 Mar 2022 8:06
 Operator : SY/AP
 Sample : N2078-02DUP
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 V-10DUP

Quant Time: Mar 25 23:21:03 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
 QLast Update : Mon Mar 21 17:09:26 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	7379	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.19	114	1778166	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.10	117	1750990	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.44	95	1298993	9.68	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.80%

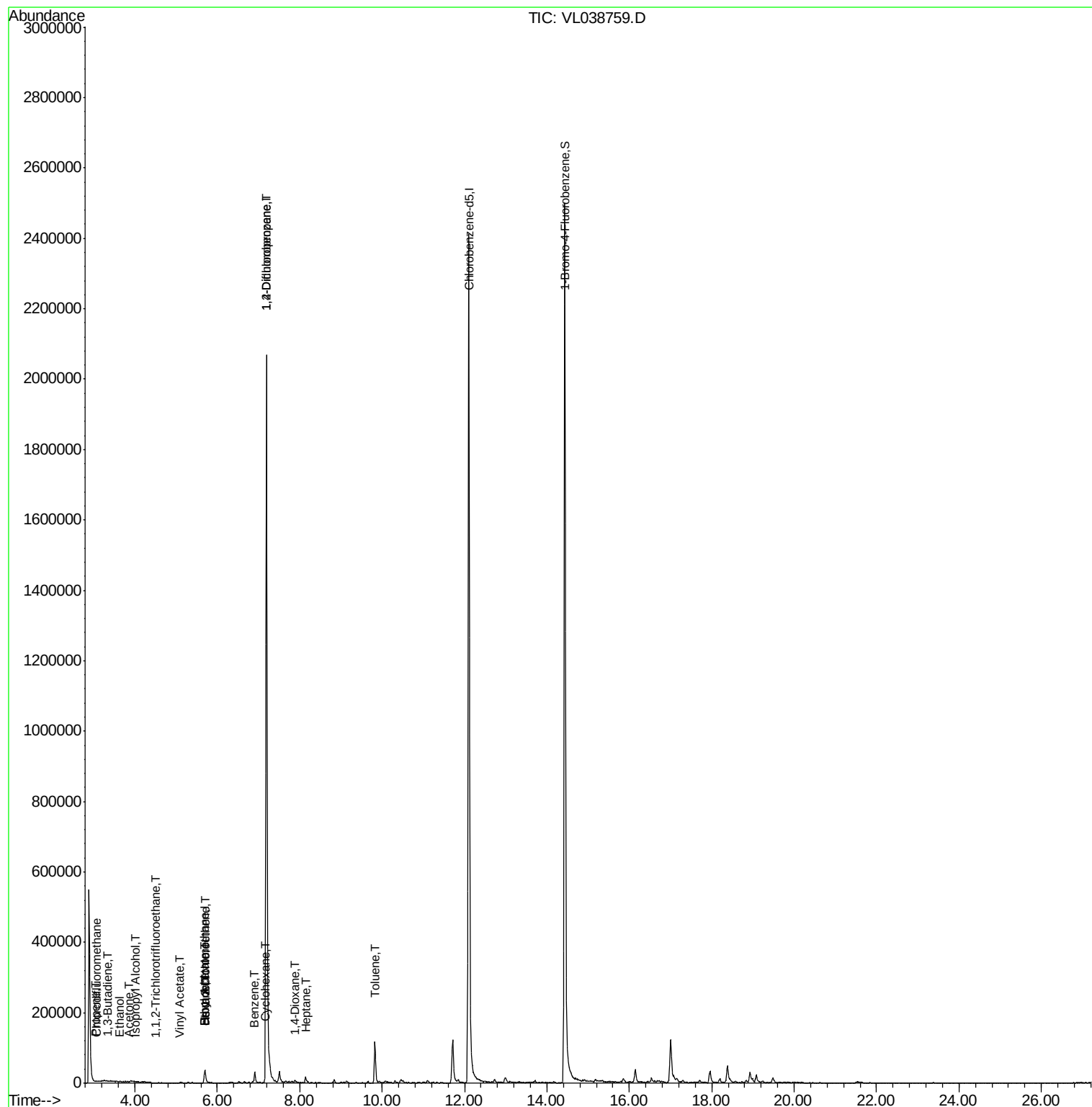
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
3) Chlorodifluoromethane	3.07	51	33	0.04	ppbv #	60
9) Propene	3.04	41	119	0.32	ppbv	90
10) Heptane	8.15	43	1906	2.12	ppbv #	26
12) 1,1,2-Trichlorotrifluoroet	4.51	101	43	0.06	ppbv	83
13) Ethanol	3.64	45	319	7.69	ppbv #	55
15) Acetone	3.86	43	60	0.09	ppbv #	46
16) 1,3-Butadiene	3.34	39	165	0.46	ppbv #	6
19) Isopropyl Alcohol	4.00	45	48	0.14	ppbv #	1
23) Vinyl Acetate	5.09	43	1480	2.40	ppbv #	81
25) Ethyl Acetate	5.70	43	1246	0.78	ppbv #	74
26) Hexane	5.71	57	1952	2.72	ppbv #	9
30) Cyclohexane	7.15	84	74	0.12	ppbv #	1
31) cis-1,2-Dichloroethene	5.71	61	118	0.17	ppbv #	21
36) Benzene	6.91	78	28788	0.21	ppbv	96
39) 1,2-Dichloropropane	7.19	63	408579	7.62	ppbv #	29
40) 1,4-Dioxane	7.89	88	857	0.05	ppbv #	3
53) Toluene	9.83	91	99396	0.67	ppbv	99

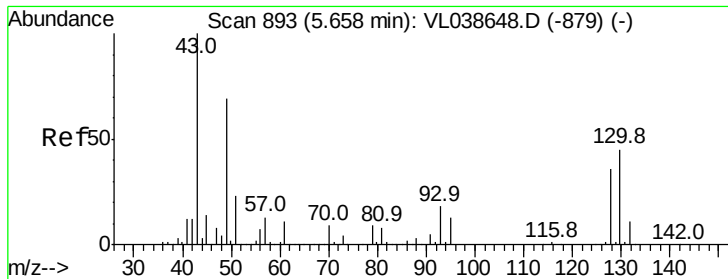
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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V-10DUP

Quant Time: Mar 25 23:21:03 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL032122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 21 17:09:26 2022
QLast Update : Mon Mar 21 17:09:26 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 25 Mar 2022 8:00 V-10DUP

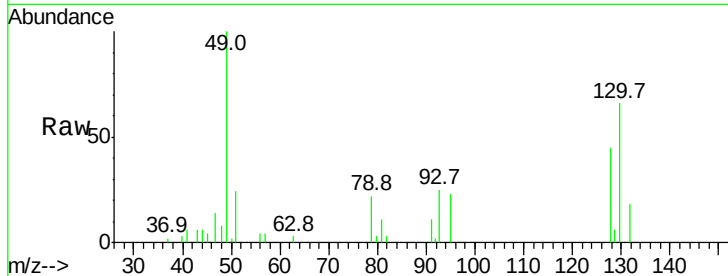
Tgt Ion: 49 Resp: 7379

Ion Ratio Lower Upper

49 100

128 0.0 26.2 78.6#

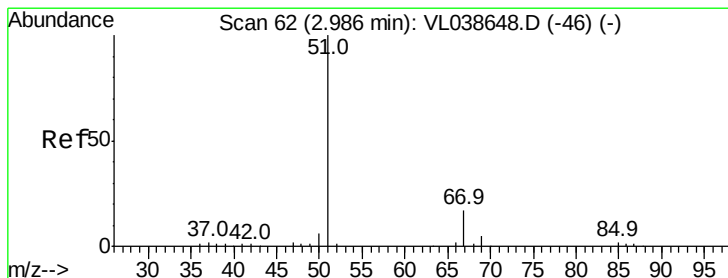
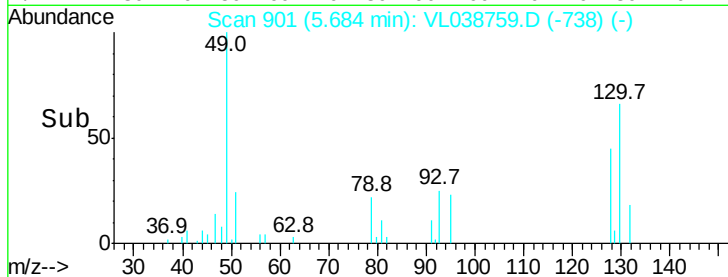
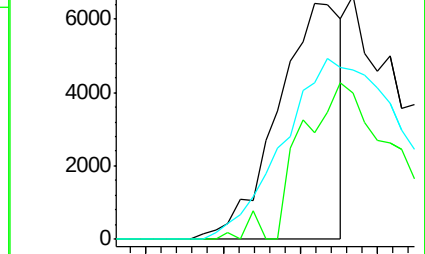
130 0.0 33.7 101.1#



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



#3

Chlorodifluoromethane

Concen: 0.04 ppbv

RT: 3.07 min Scan# 88

Delta R.T. 0.08 min

Lab File: VL038759.D

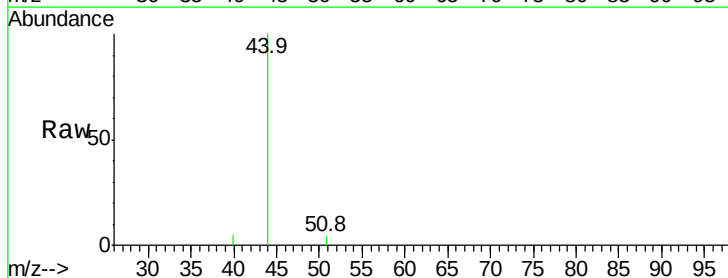
Acq: 25 Mar 2022 8:06

Tgt Ion: 51 Resp: 33

Ion Ratio Lower Upper

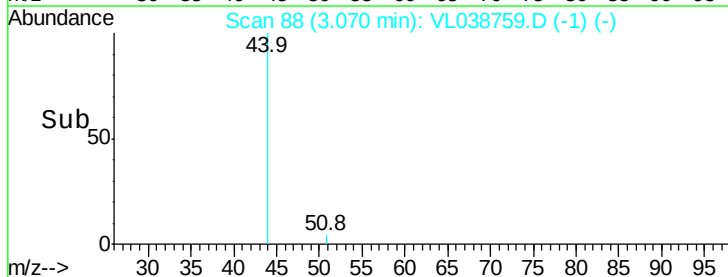
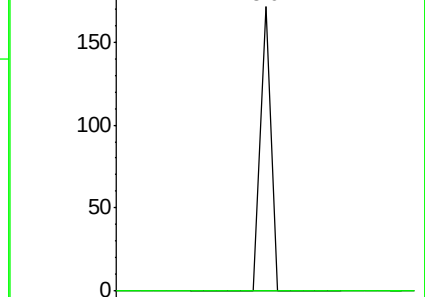
51 100

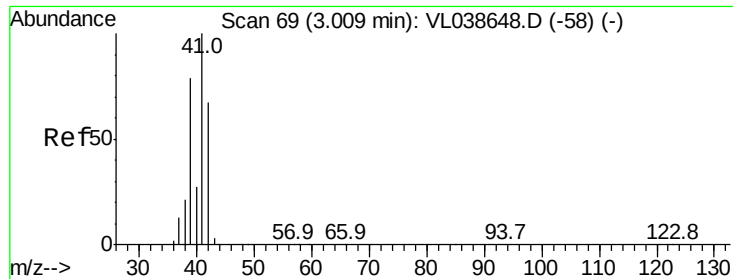
67 0.0 14.1 21.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.32 ppbv

RT: 3.04 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

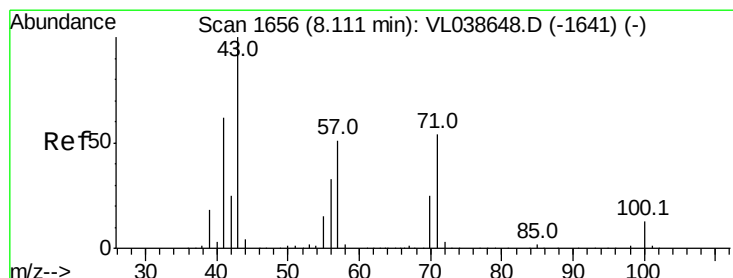
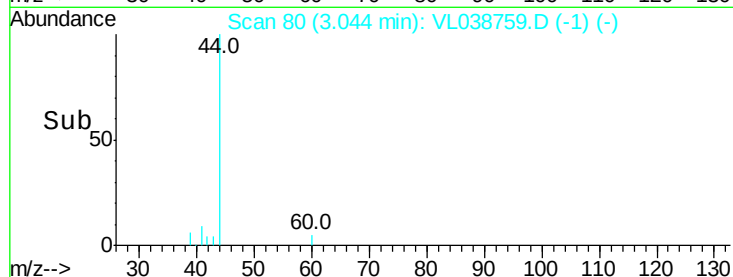
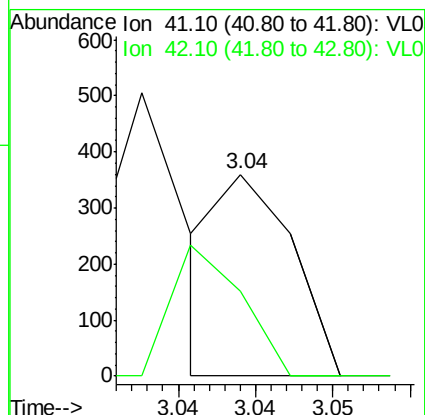
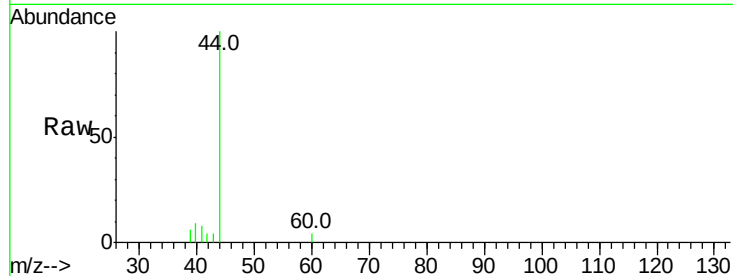
Acq: 25 Mar 2022 8:00

Tgt Ion: 41 Resp: 119

Ion Ratio Lower Upper

41 100

42 62.2 56.2 84.4



#10

Heptane

Concen: 2.12 ppbv

RT: 8.15 min Scan# 1667

Delta R.T. 0.04 min

Lab File: VL038759.D

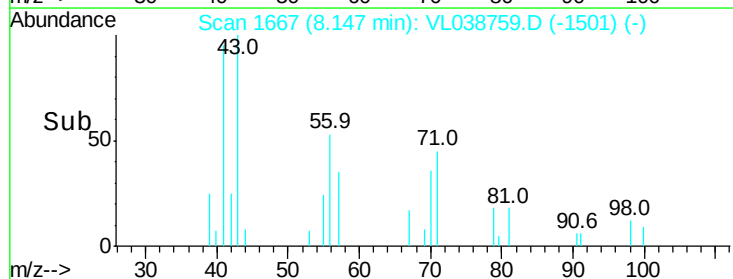
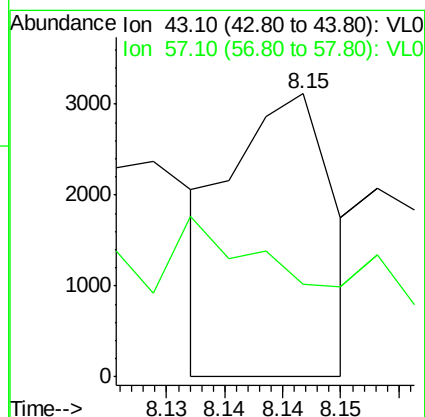
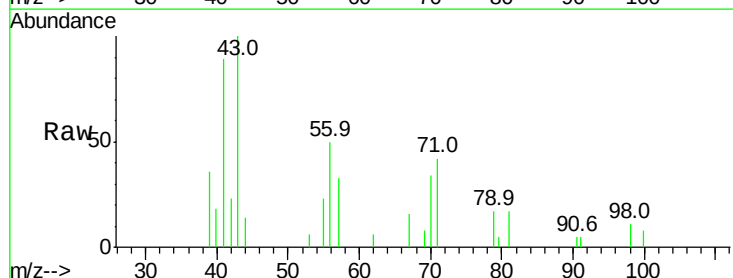
Acq: 25 Mar 2022 8:06

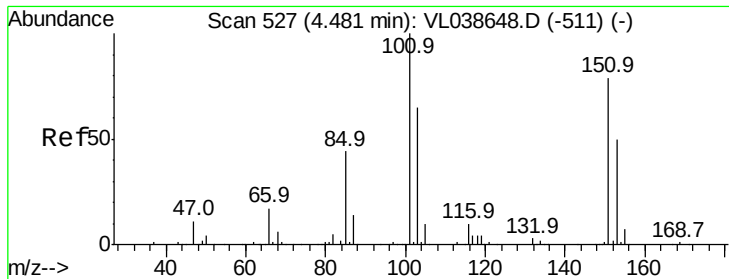
Tgt Ion: 43 Resp: 1906

Ion Ratio Lower Upper

43 100

57 0.0 41.4 62.2#





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.06 ppbv

RT: 4.51 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

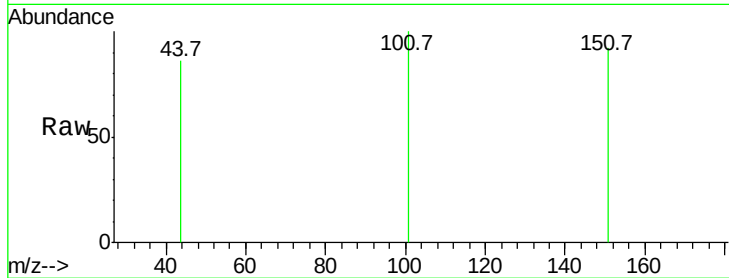
Acq: 25 Mar 2022 8:00

Tgt Ion: 101 Resp: 43

Ion Ratio Lower Upper

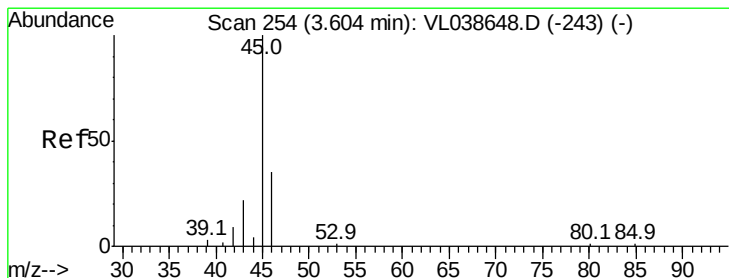
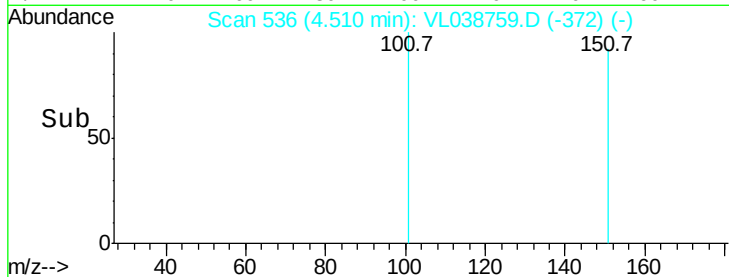
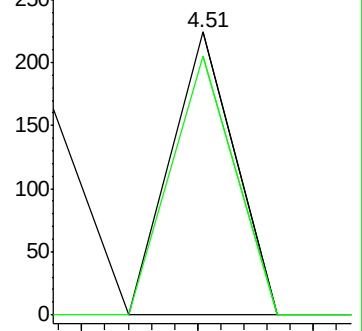
101 100

151 93.0 62.9 94.3



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V



#13

Ethanol

Concen: 7.69 ppbv

RT: 3.64 min Scan# 264

Delta R.T. 0.03 min

Lab File: VL038759.D

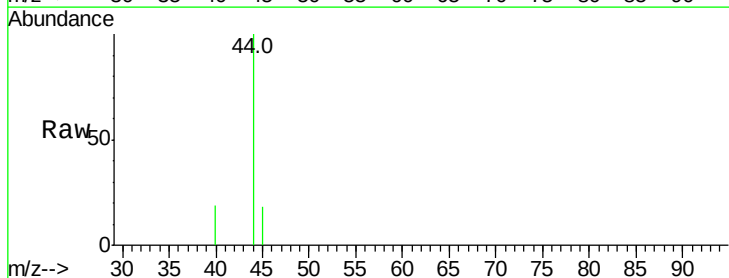
Acq: 25 Mar 2022 8:06

Tgt Ion: 45 Resp: 319

Ion Ratio Lower Upper

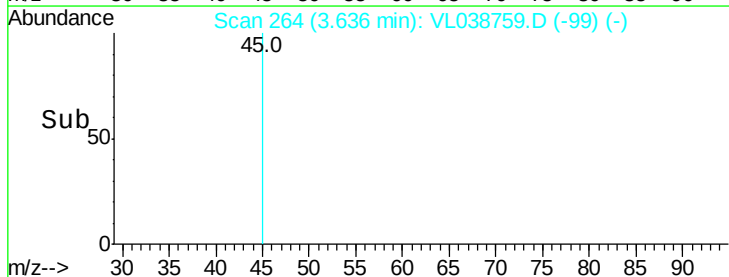
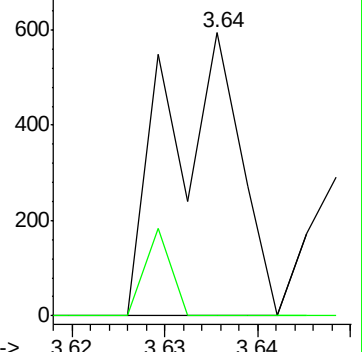
45 100

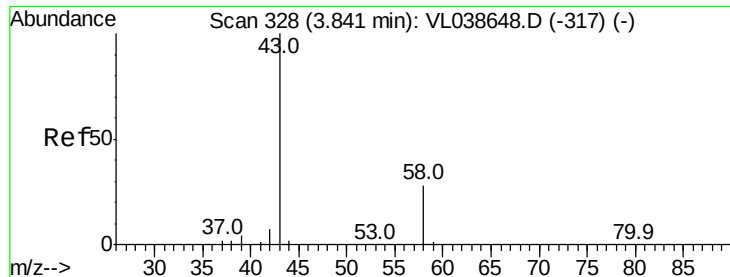
46 11.0 15.1 60.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.09 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

V-10DUP

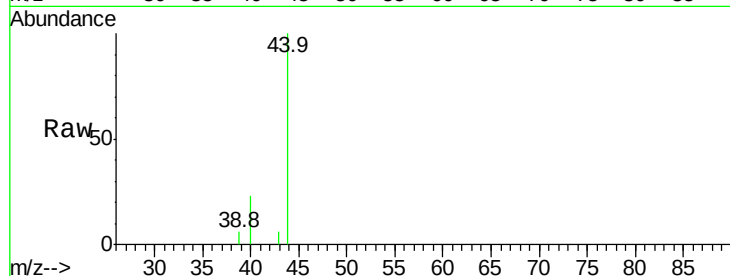
Acq: 25 Mar 2022 8:00

Tgt Ion: 43 Resp: 60

Ion Ratio Lower Upper

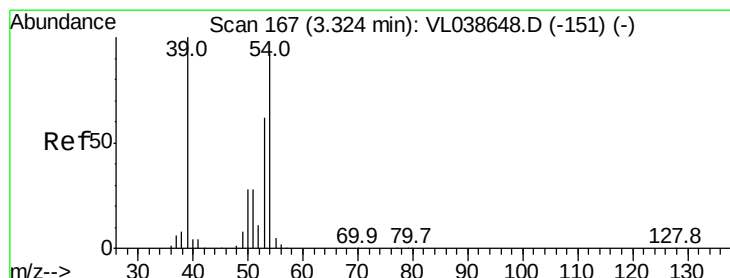
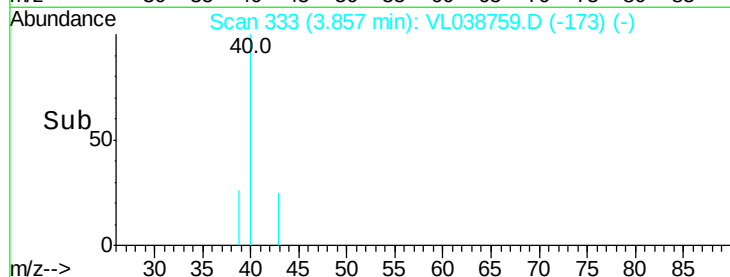
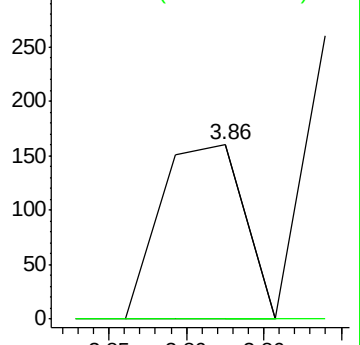
43 100

58 0.0 23.3 34.9#



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 0.46 ppbv

RT: 3.34 min Scan# 173

Delta R.T. 0.02 min

Lab File: VL038759.D

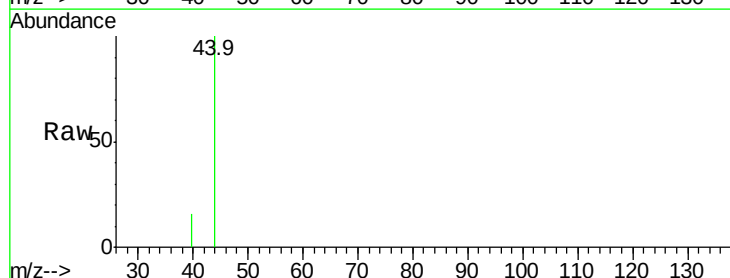
Acq: 25 Mar 2022 8:06

Tgt Ion: 39 Resp: 165

Ion Ratio Lower Upper

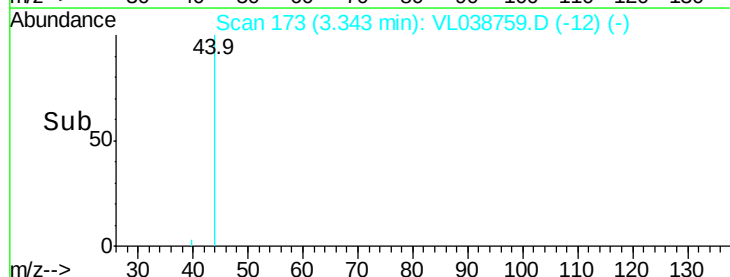
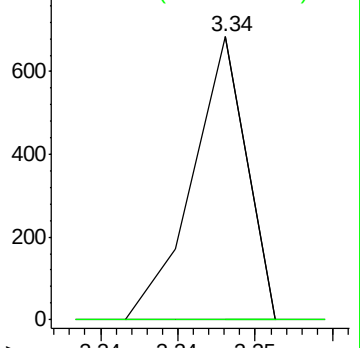
39 100

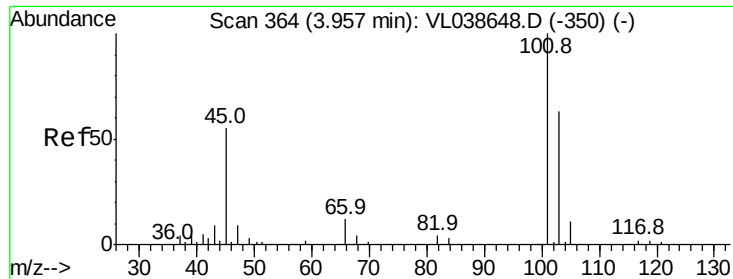
54 0.0 69.1 103.7#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 0.14 ppbv

RT: 4.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

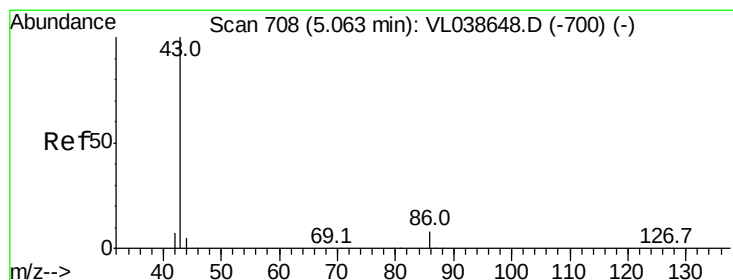
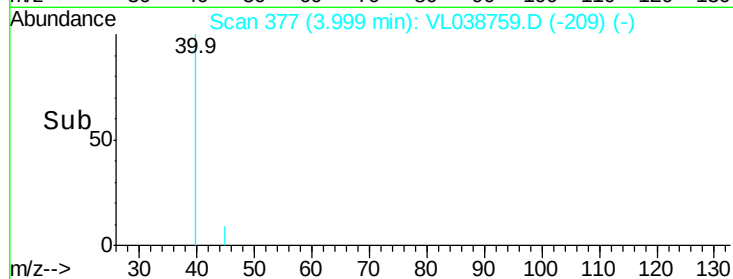
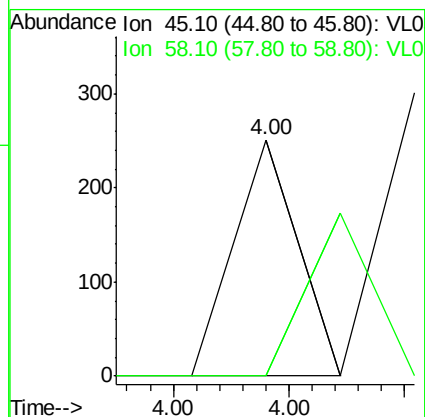
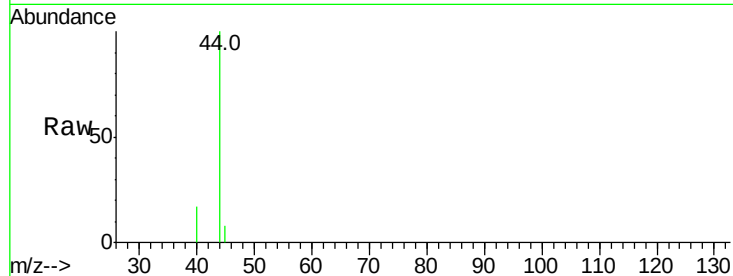
Acq: 25 Mar 2022 8:00

Tgt Ion: 45 Resp: 48

Ion Ratio Lower Upper

45 100

58 3156.3 2.3 3.5#



#23

Vinyl Acetate

Concen: 2.40 ppbv

RT: 5.09 min Scan# 717

Delta R.T. 0.03 min

Lab File: VL038759.D

Acq: 25 Mar 2022 8:06

Tgt Ion: 43 Resp: 1480

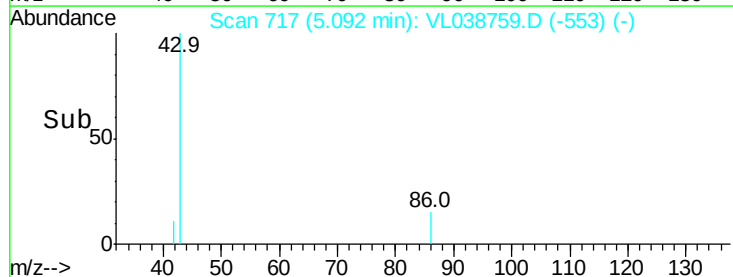
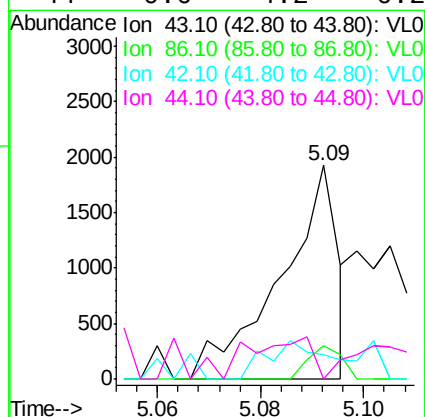
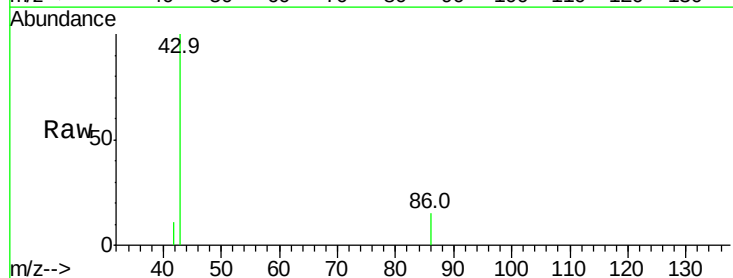
Ion Ratio Lower Upper

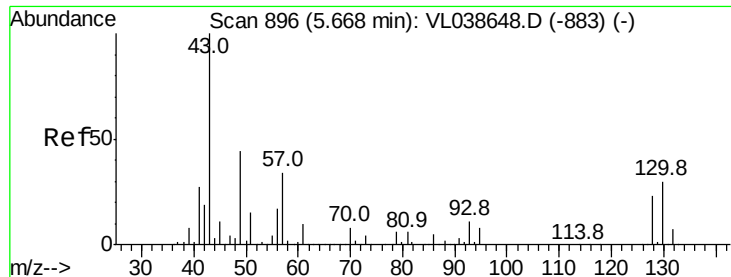
43 100

86 15.4 5.6 8.4#

42 2.2 6.8 10.2#

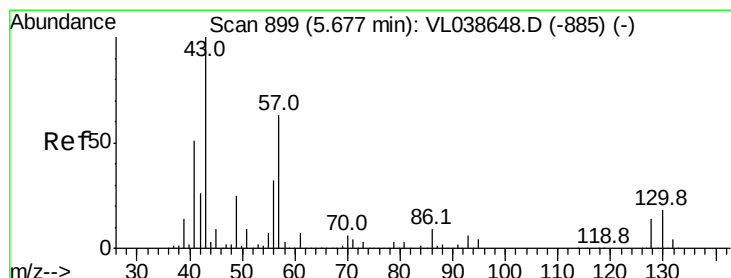
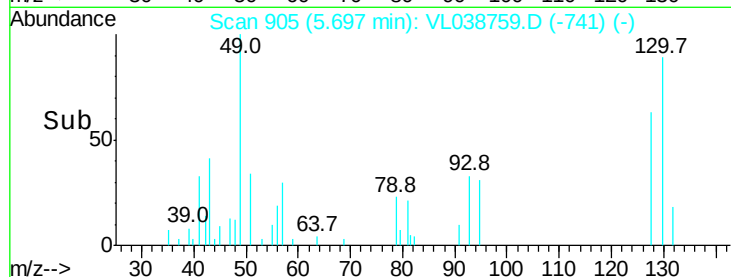
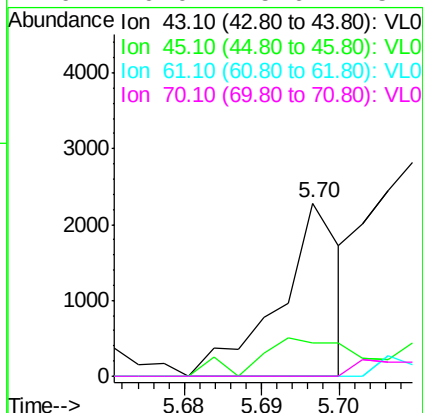
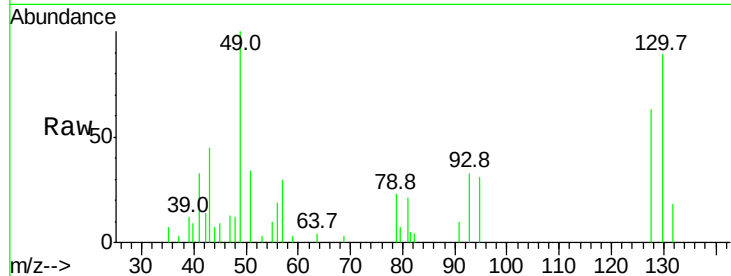
44 0.0 4.2 6.2#





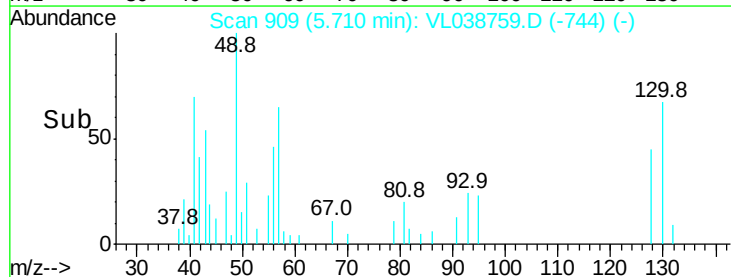
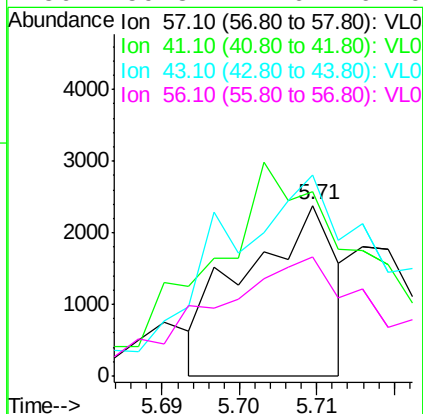
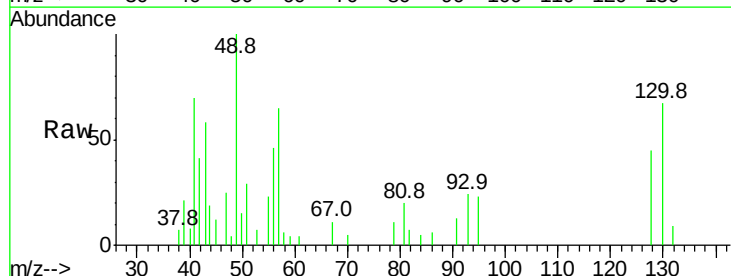
#25
Ethyl Acetate
Concen: 0.78 ppbv
RT: 5.70
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
V-10DUP
Acq: 25 Mar 2022 8:00

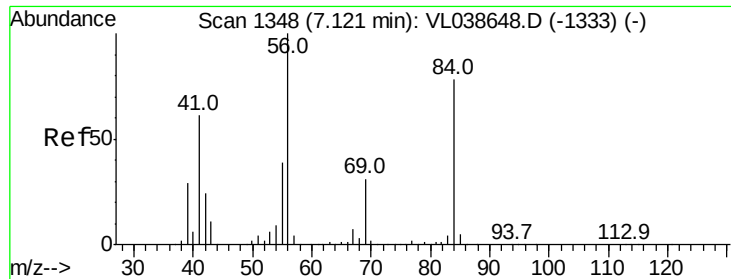
Tgt Ion:	43	Resp:	1246
Ion	Ratio	Lower	Upper
43	100		
45	0.0	8.2	12.4#
61	0.0	8.3	12.5#
70	0.0	5.6	8.4#



#26
Hexane
Concen: 2.72 ppbv
RT: 5.71 min Scan# 909
Delta R.T.: 0.03 min
Lab File: VL038759.D
Acq: 25 Mar 2022 8:06

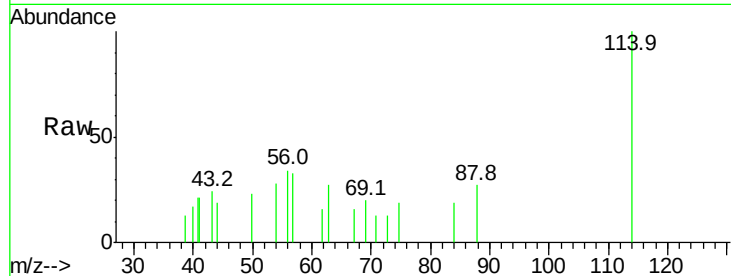
Tgt Ion:	57	Resp:	1952
Ion	Ratio	Lower	Upper
57	100		
41	272.0	67.0	100.4#
43	288.6	184.2	276.2#
56	159.8	42.6	64.0#



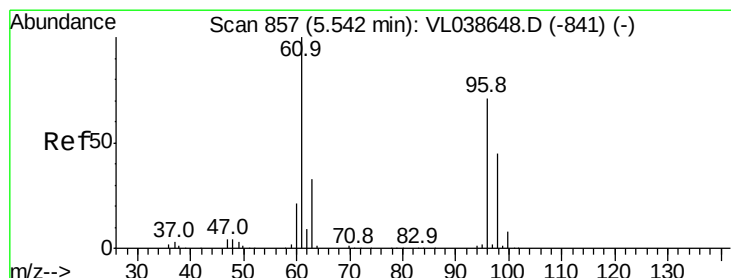
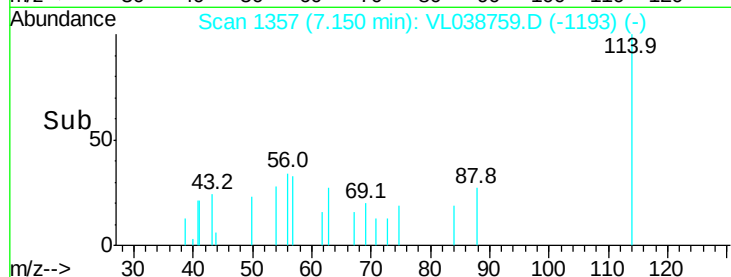
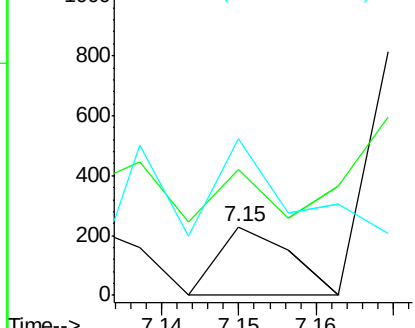


#30
Cyclohexane
Concen: 0.12 ppbv
RT: 7.15
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 25 Mar 2022 8:00

Tgt Ion: 84 Resp: 74
Ion Ratio Lower Upper
84 100
56 0.0 108.2 162.4#
41 1041.9 61.8 92.6#

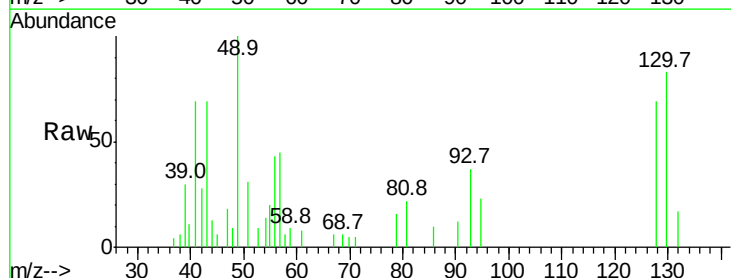


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

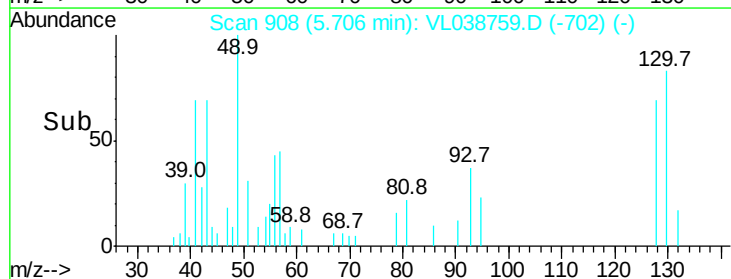
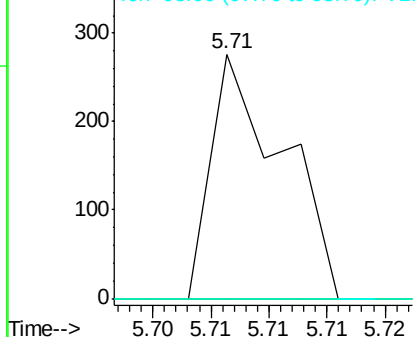


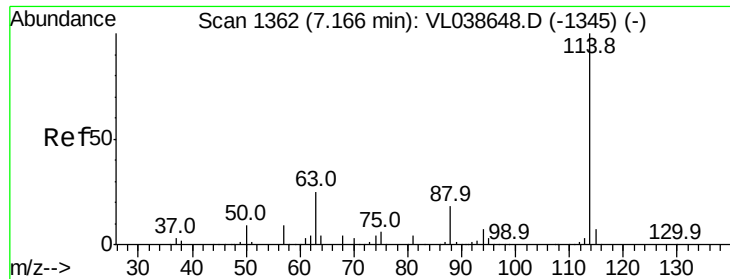
#31
cis-1,2-Dichloroethene
Concen: 0.17 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.16 min
Lab File: VL038759.D
Acq: 25 Mar 2022 8:06

Tgt Ion: 61 Resp: 118
Ion Ratio Lower Upper
61 100
96 0.0 56.6 84.8#
98 0.0 36.3 54.5#



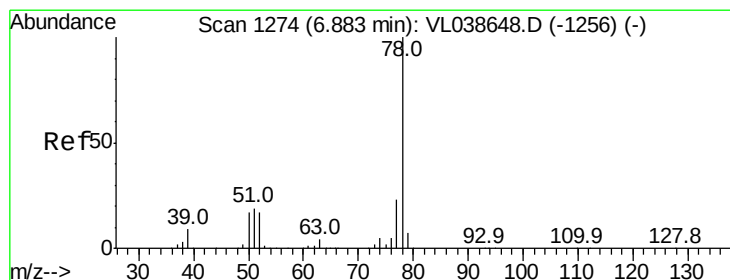
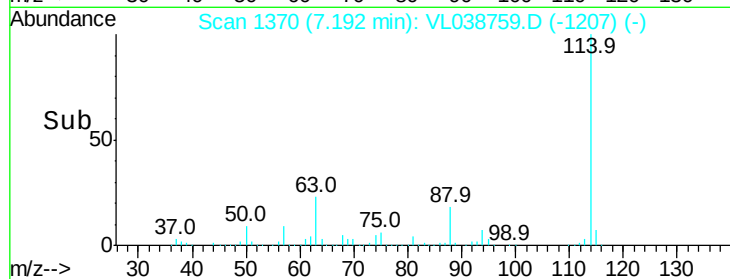
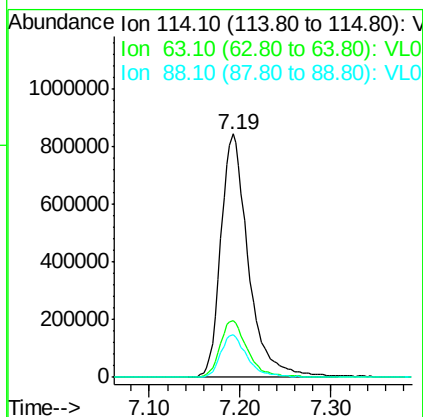
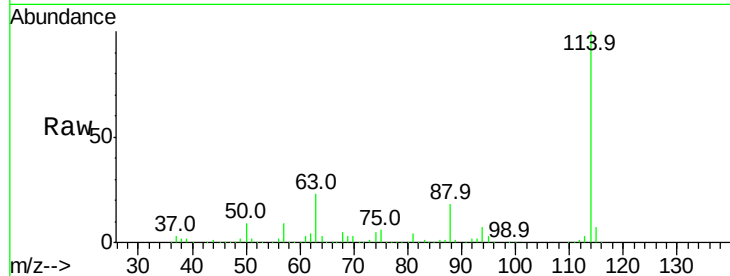
Abundance Ion 61.10 (60.80 to 61.80): VL0
Ion 96.00 (95.70 to 96.70): VL0
Ion 98.00 (97.70 to 98.70): VL0





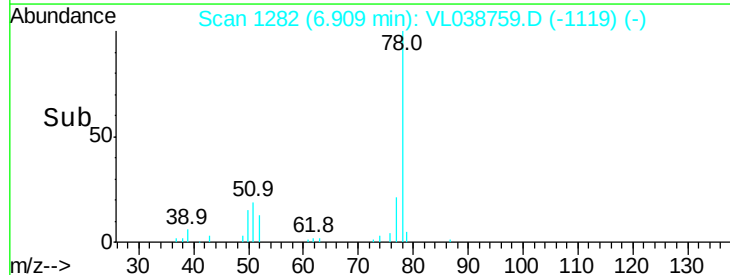
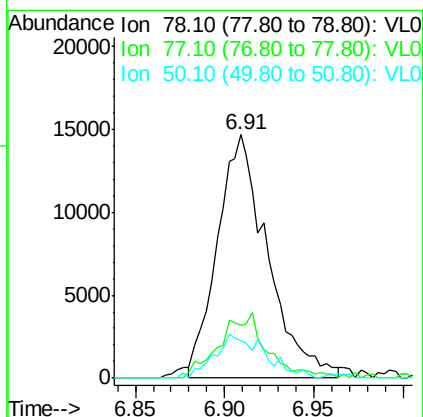
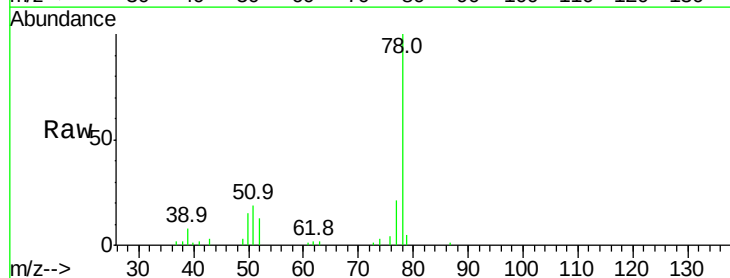
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.19
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 V-10DUP
 Acq: 25 Mar 2022 8:00

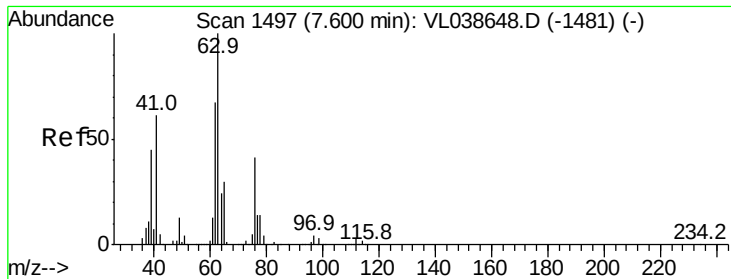
Tgt Ion:114 Resp: 1778166
 Ion Ratio Lower Upper
 114 100
 63 23.7 19.4 29.0
 88 17.3 13.9 20.9



#36
 Benzene
 Concen: 0.21 ppbv
 RT: 6.91 min Scan# 1282
 Delta R.T. 0.03 min
 Lab File: VL038759.D
 Acq: 25 Mar 2022 8:06

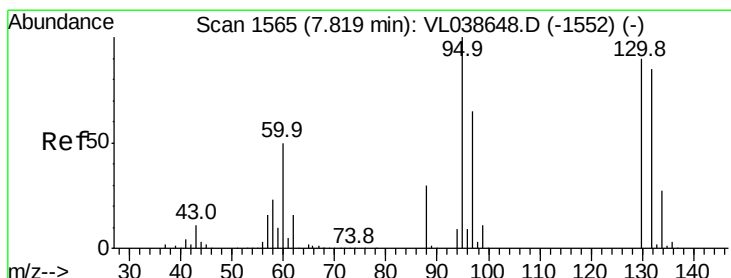
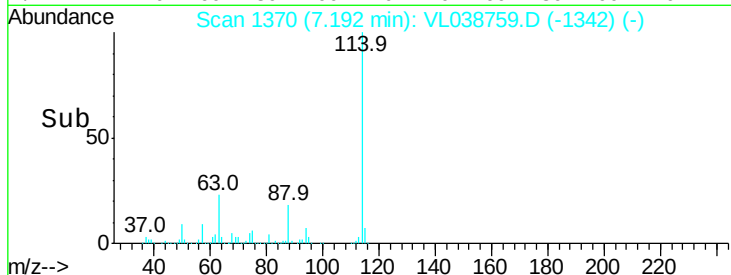
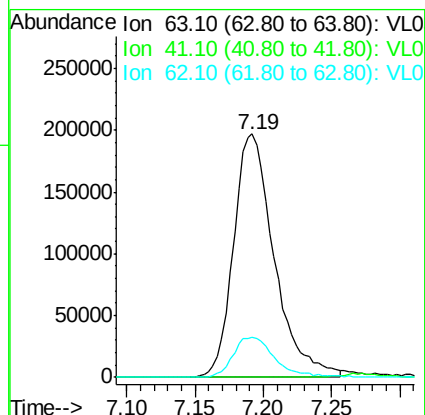
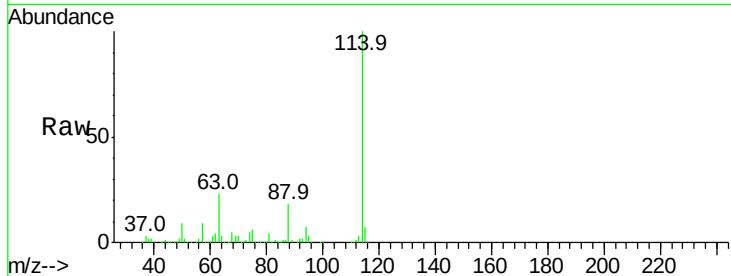
Tgt Ion: 78 Resp: 28788
 Ion Ratio Lower Upper
 78 100
 77 19.8 18.1 27.1
 50 15.8 13.6 20.4





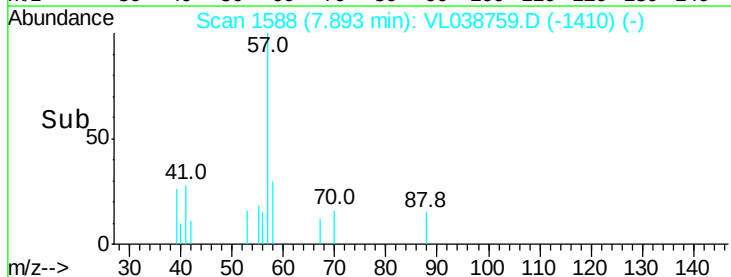
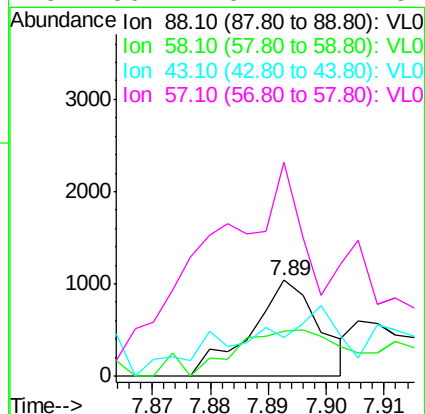
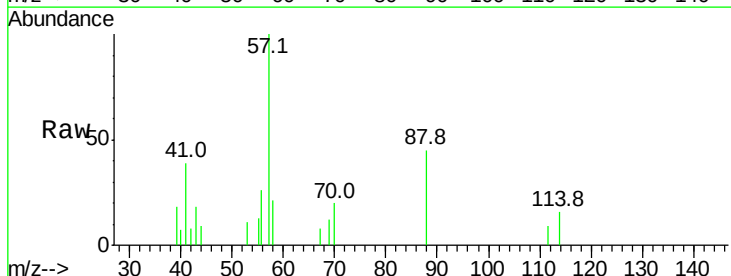
#39
 1,2-Dichloropropane
 Concen: 7.62 ppbv
 RT: 7.19
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 V-10DUP
 Acq: 25 Mar 2022 8:00

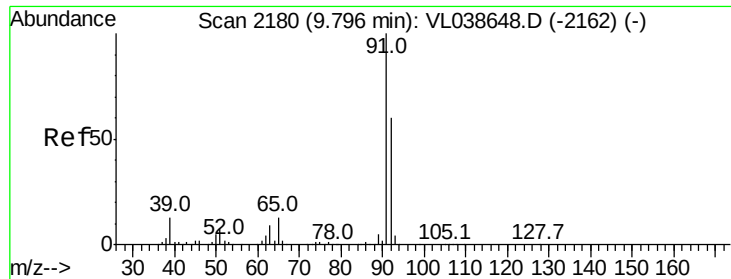
Tgt Ion: 63 Resp: 408579
 Ion Ratio Lower Upper
 63 100
 41 0.0 49.0 73.6#
 62 16.7 53.9 80.9#



#40
 1,4-Dioxane
 Concen: 0.05 ppbv
 RT: 7.89 min Scan# 1588
 Delta R.T. 0.07 min
 Lab File: VL038759.D
 Acq: 25 Mar 2022 8:06

Tgt Ion: 88 Resp: 857
 Ion Ratio Lower Upper
 88 100
 58 117.9 105.6 158.4
 43 202.6 201.9 302.9
 57 567.1 942.1 1413.1#





#53

Toluene

Concen: 0.67 ppbv

RT: 9.83 Instrument: MSVOA_1

Delta R.T. 0.03 min

Lab File: ClientSampleId: V-10DUP

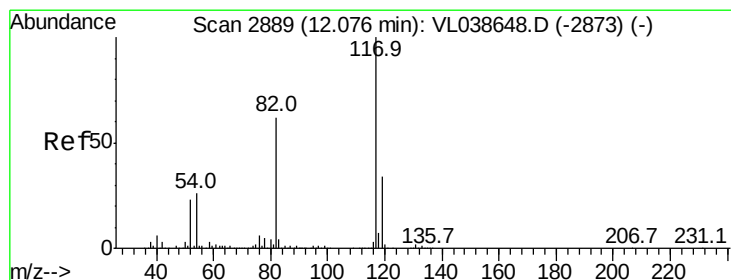
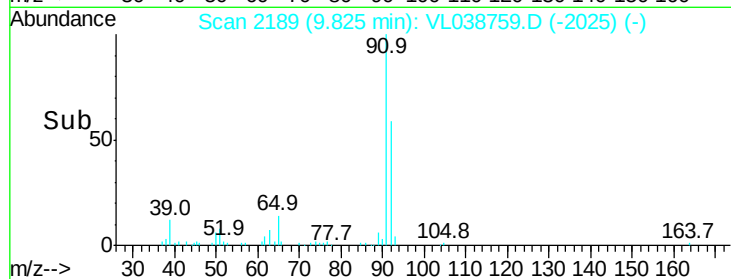
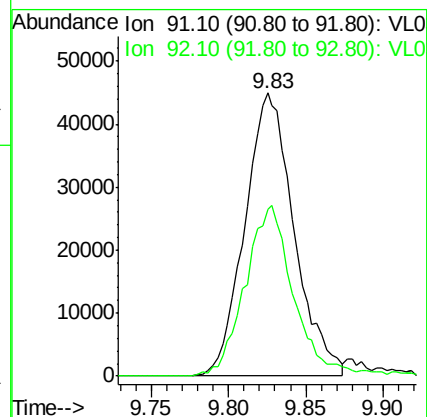
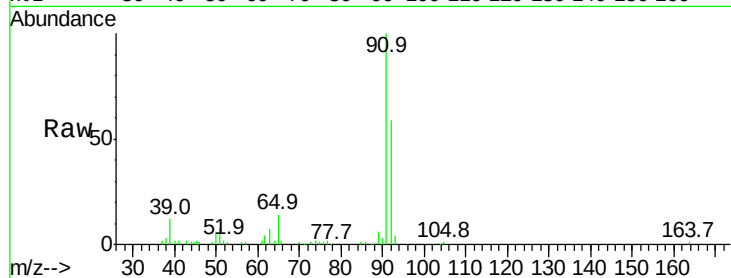
Acq: 25 Mar 2022 8:00

Tgt Ion: 91 Resp: 99396

Ion Ratio Lower Upper

91 100

92 60.2 48.7 73.1



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.10 min Scan# 2898

Delta R.T. 0.03 min

Lab File: VL038759.D

Acq: 25 Mar 2022 8:06

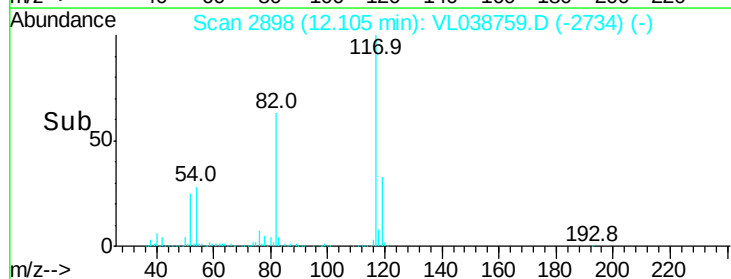
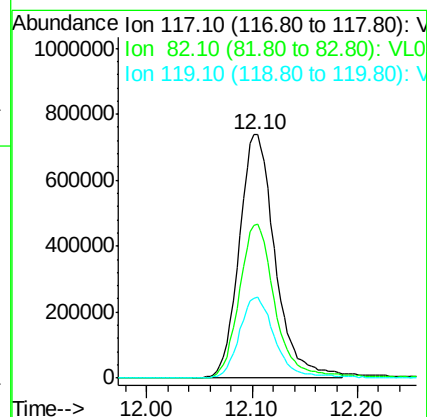
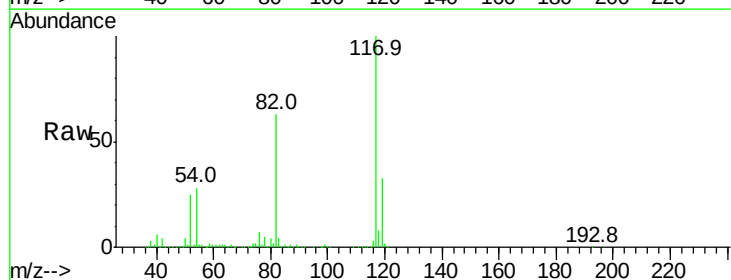
Tgt Ion: 117 Resp: 1750990

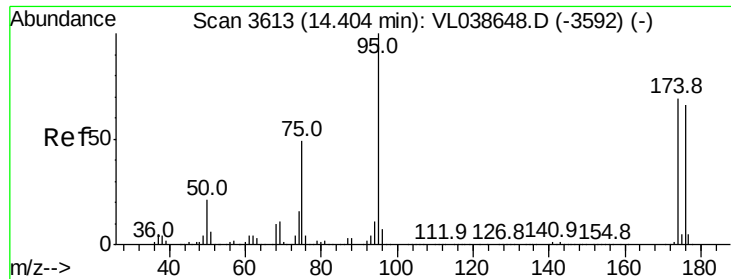
Ion Ratio Lower Upper

117 100

82 64.5 51.6 77.4

119 33.6 26.9 40.3





#68

1-Bromo-4-Fluorobenzene

Concen: 9.68 ppbv

RT: 14.44

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

V-10DUP

Acq: 25 Mar 2022 8:00

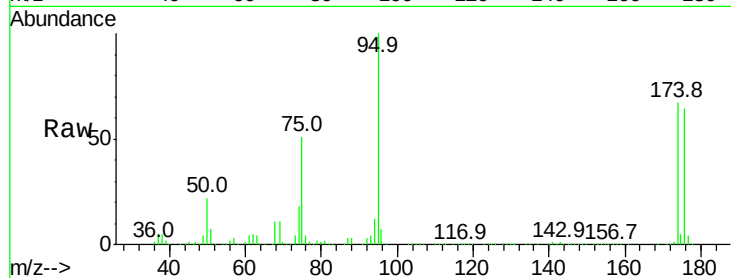
Tgt Ion: 95 Resp: 1298993

Ion Ratio Lower Upper

95 100

174 69.7 56.1 84.1

175 5.1 4.2 6.2



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

