

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL032222\
 Data File : VL038695.D
 Acq On : 22 Mar 2022 22:23
 Operator : SY/AP
 Sample : N1961-14DL 5X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 C0P77DL

Quant Time: Mar 23 04:16:01 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	5.65	49	848875	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2330925	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.06	117	2039369	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.39	95	1493142	9.55	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.50%	

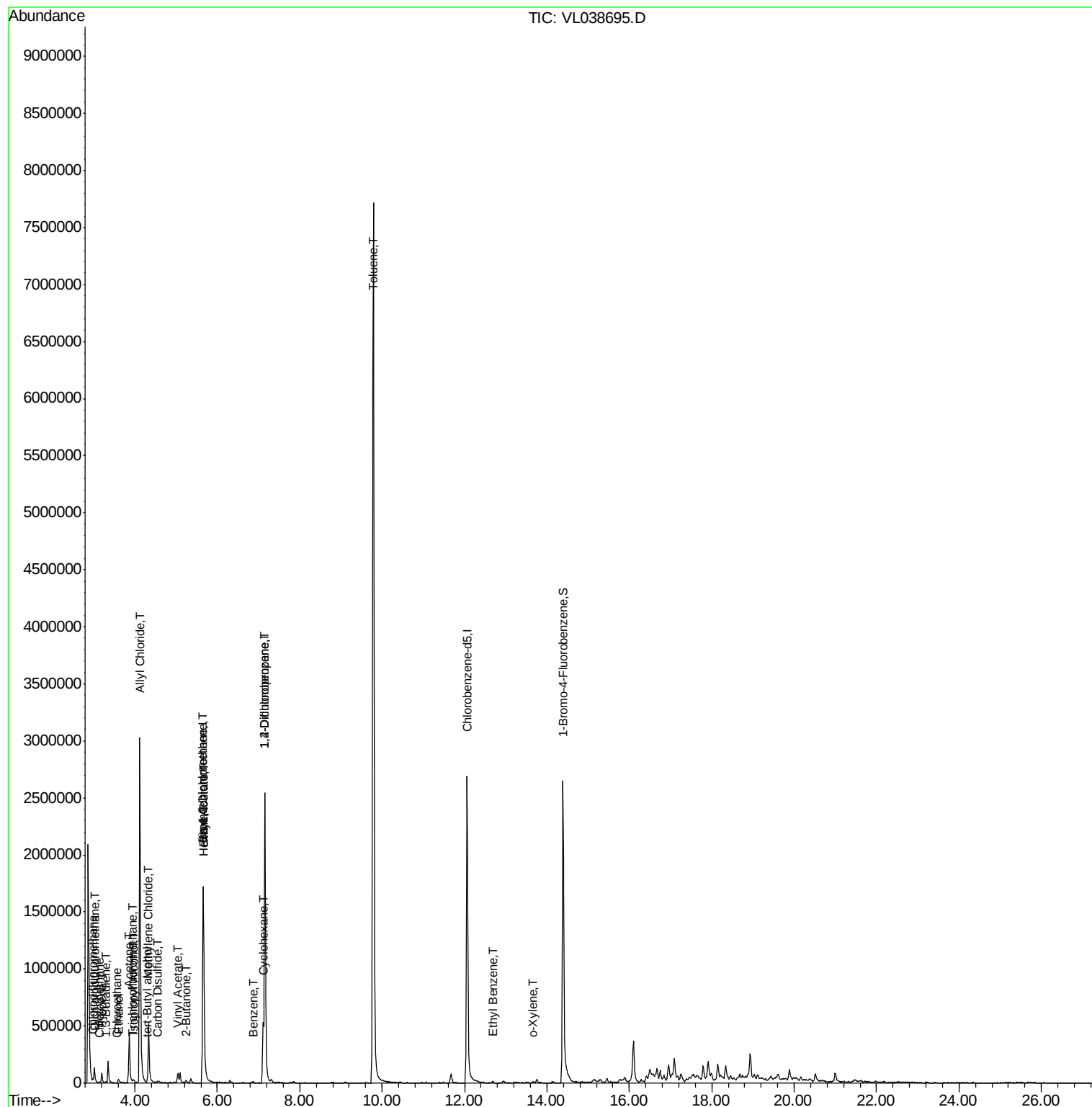
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.04	85	8667	0.08	ppbv	97
3) Chlorodifluoromethane	2.99	51	36239	0.40	ppbv #	92
4) Chloromethane	3.13	50	5024	0.10	ppbv	93
7) Chloroethane	3.55	64	1429	0.09	ppbv	89
9) Propene	3.19	41	27209	0.63	ppbv	88
11) Trichlorofluoromethane	3.94	101	4234	0.04	ppbv #	78
13) Ethanol	3.60	45	1584	0.33	ppbv #	37
15) Acetone	3.86	43	264831	3.62	ppbv #	68
16) 1,3-Butadiene	3.30	39	1135	0.03	ppbv	95
17) tert-Butyl alcohol	4.29	59	1915	0.03	ppbv #	73
19) Isopropyl Alcohol	3.96	45	28161	0.69	ppbv #	87
20) Methylene Chloride	4.33	84	225459	7.31	ppbv	98
21) Allyl Chloride	4.12	41	1119138	21.23	ppbv #	51
23) Vinyl Acetate	5.04	43	11401	0.16	ppbv #	1
25) Ethyl Acetate	5.67	43	355099	1.93	ppbv #	90
26) Hexane	5.67	57	307133	3.72	ppbv #	58
27) Carbon Disulfide	4.54	76	6103	0.08	ppbv #	71
30) Cyclohexane	7.11	84	211945	2.95	ppbv	90
31) cis-1,2-Dichloroethene	5.66	61	19170	0.25	ppbv #	28
34) 2-Butanone	5.24	43	28937	0.31	ppbv	99
36) Benzene	6.87	78	10533	0.06	ppbv #	74
39) 1,2-Dichloropropane	7.15	63	514120	7.31	ppbv #	29
53) Toluene	9.79	91	7503215	38.82	ppbv	96
58) Ethyl Benzene	12.69	91	14421	0.06	ppbv	98
60) o-Xylene	13.67	91	4501	0.02	ppbv #	30

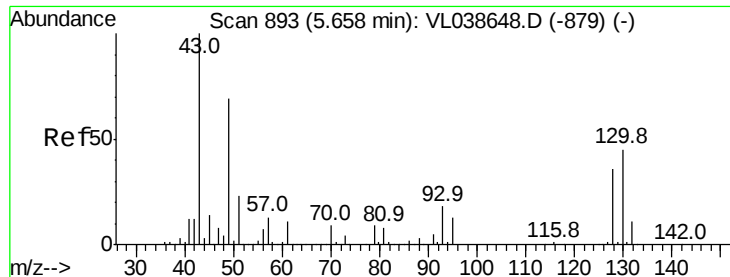
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: C0P77DL

Acq: 22 Mar 2022 22:23

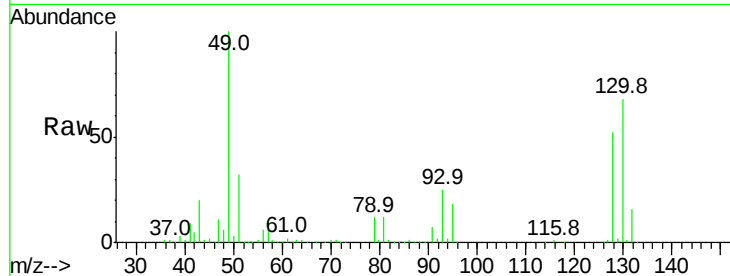
Tgt Ion: 49 Resp: 848875

Ion Ratio Lower Upper

49 100

128 54.3 26.2 78.6

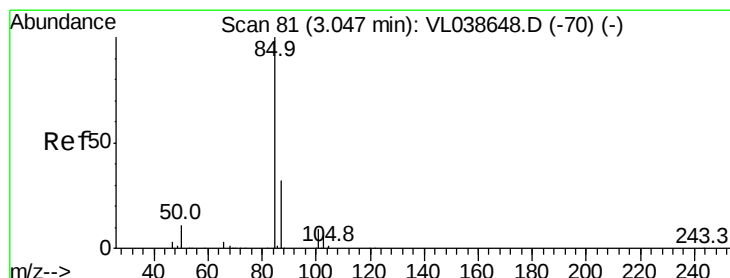
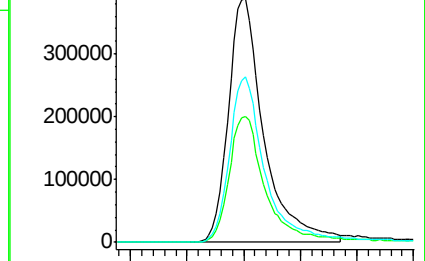
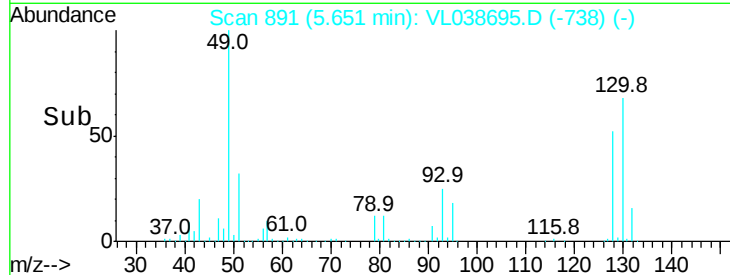
130 70.3 33.7 101.1



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



#2

Dichlorodifluoromethane

Concen: 0.08 ppbv

RT: 3.04 min Scan# 78

Delta R.T. -0.01 min

Lab File: VL038695.D

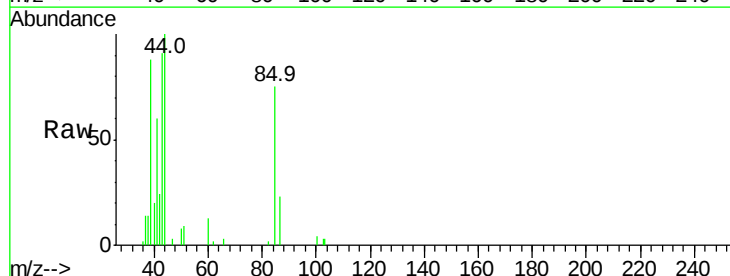
Acq: 22 Mar 2022 22:23

Tgt Ion: 85 Resp: 8667

Ion Ratio Lower Upper

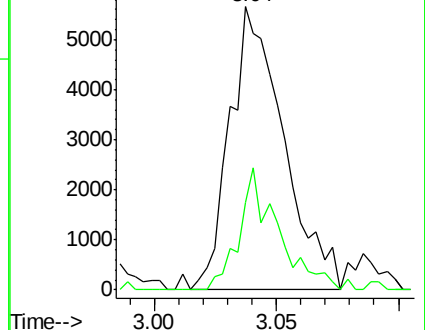
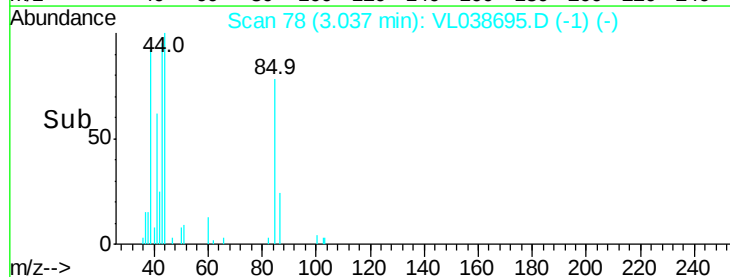
85 100

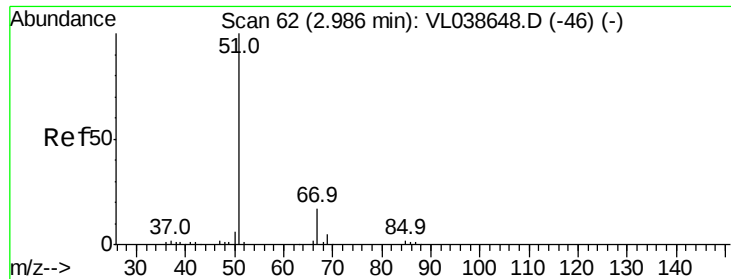
87 30.8 26.0 39.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.40 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: C0P77DL

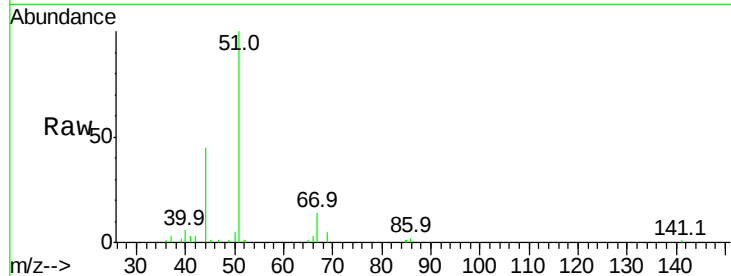
Acq: 22 Mar 2022 22:23

Tgt Ion: 51 Resp: 36239

Ion Ratio Lower Upper

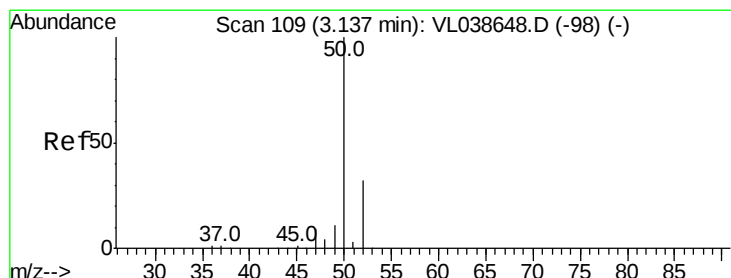
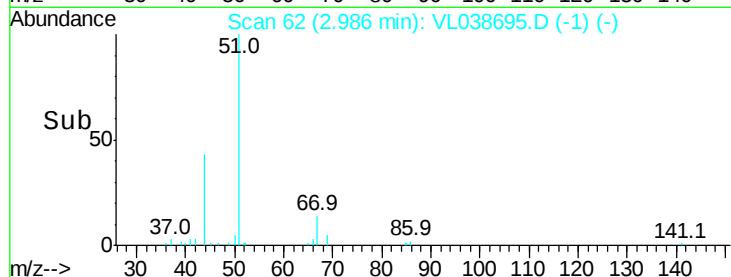
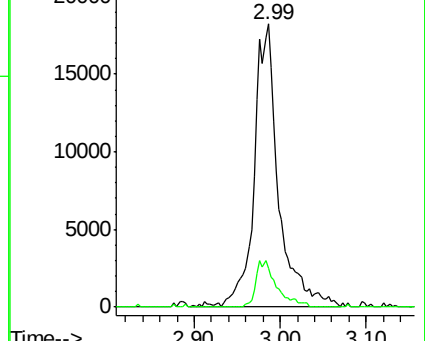
51 100

67 14.0 14.1 21.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.10 ppbv

RT: 3.13 min Scan# 108

Delta R.T. -0.00 min

Lab File: VL038695.D

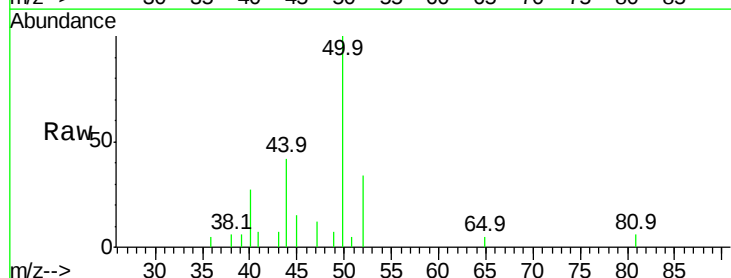
Acq: 22 Mar 2022 22:23

Tgt Ion: 50 Resp: 5024

Ion Ratio Lower Upper

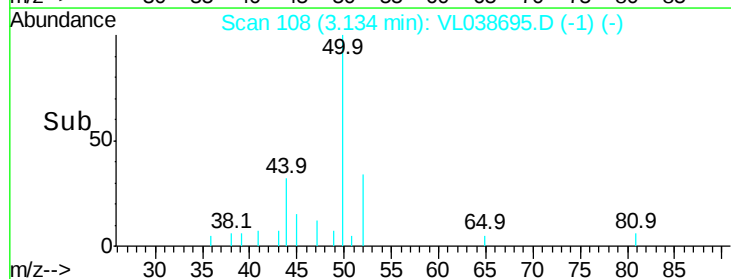
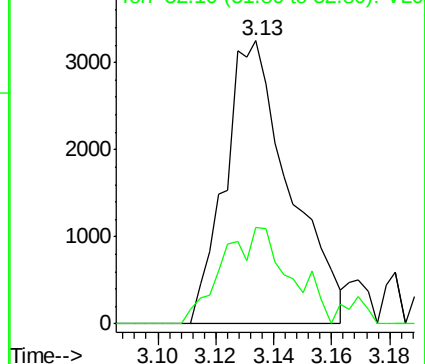
50 100

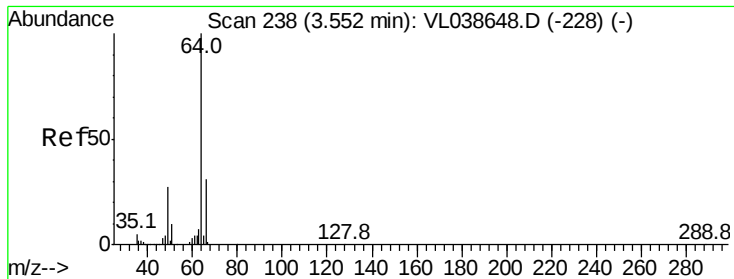
52 27.7 25.5 38.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#7

Chloroethane

Concen: 0.09 ppbv

RT: 3.55 Instrument: MSVOA_L

Delta R.T. ClientSampleId:

Lab File: C0P77DL

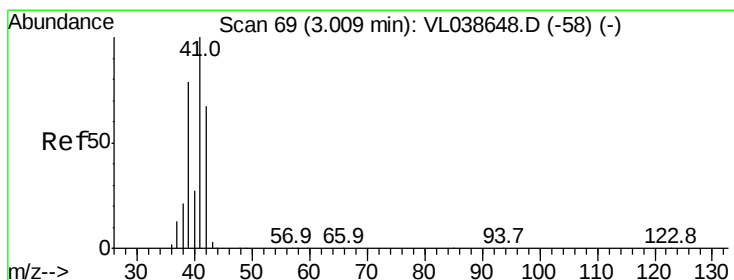
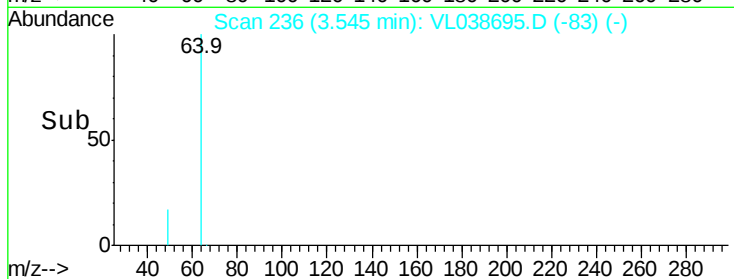
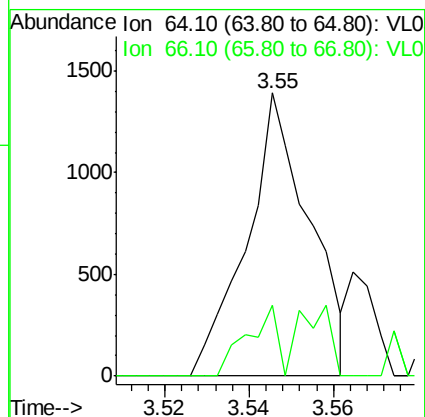
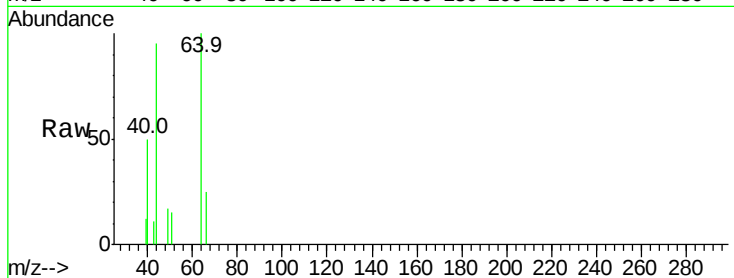
Acq: 22 Mar 2022 22:23

Tgt Ion: 64 Resp: 1429

Ion Ratio Lower Upper

64 100

66 25.1 25.0 37.6



#9

Propene

Concen: 0.63 ppbv

RT: 3.19 min Scan# 127

Delta R.T. 0.19 min

Lab File: VL038695.D

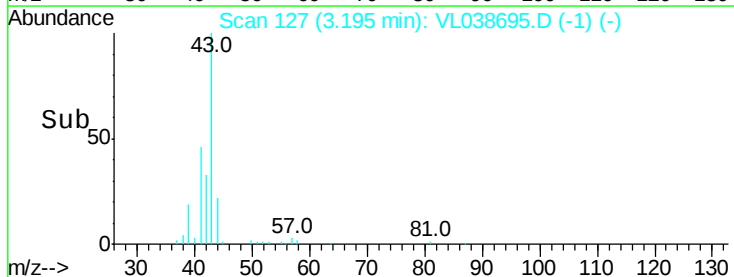
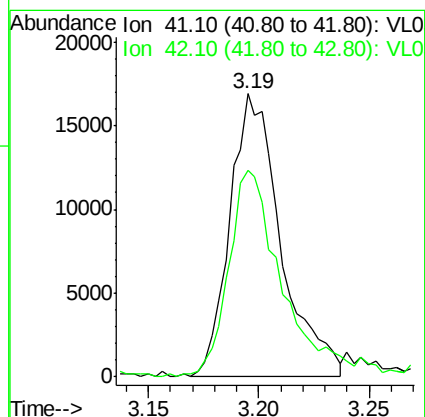
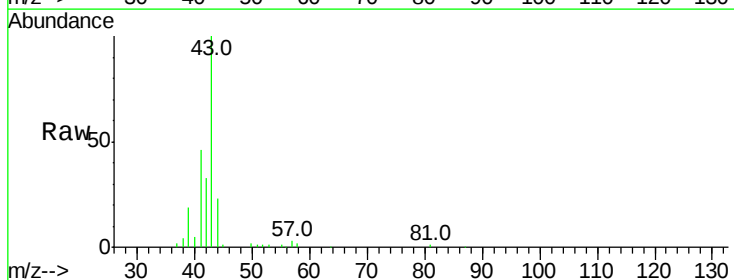
Acq: 22 Mar 2022 22:23

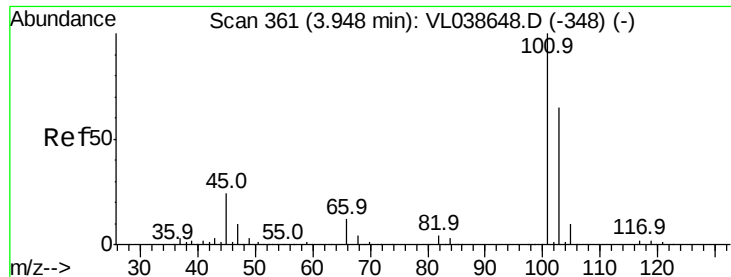
Tgt Ion: 41 Resp: 27209

Ion Ratio Lower Upper

41 100

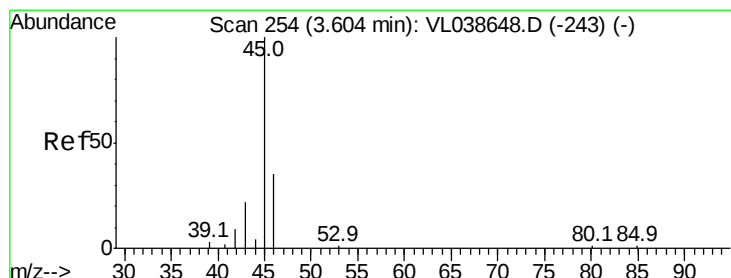
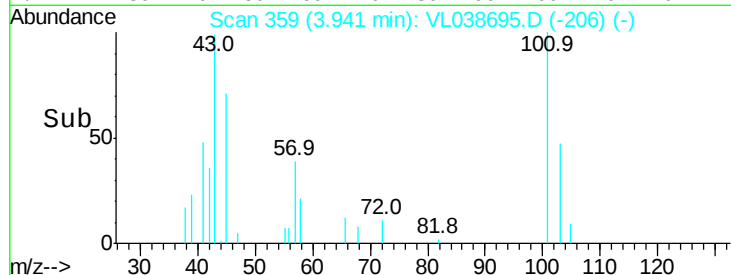
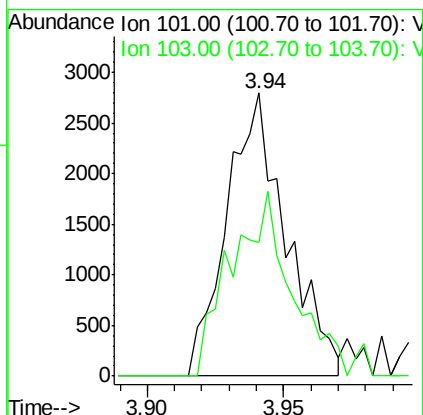
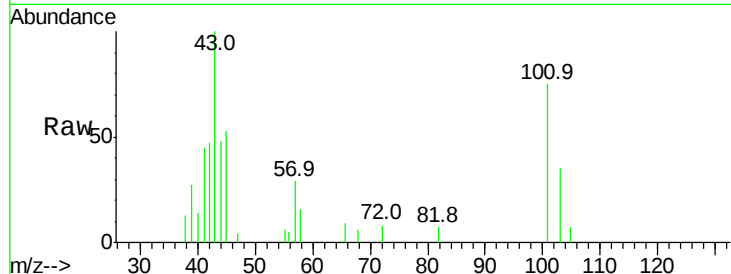
42 80.1 56.2 84.4





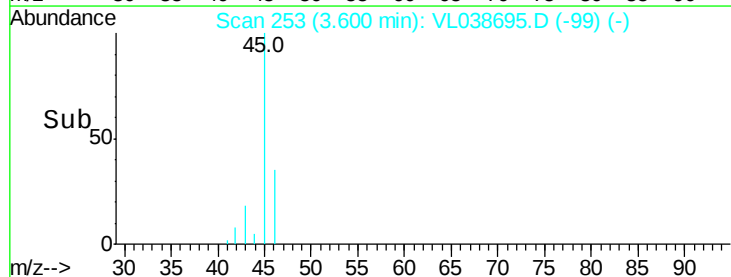
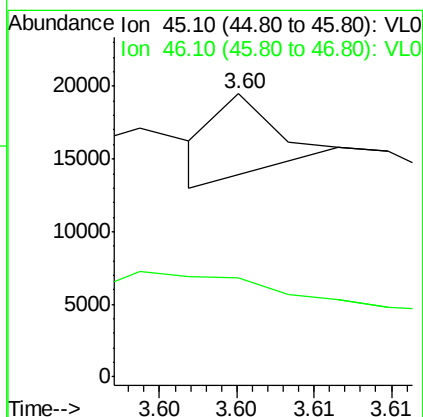
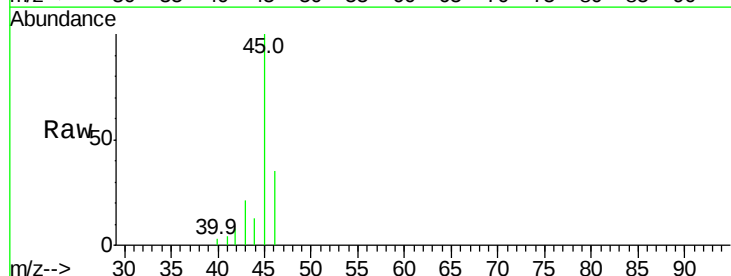
#11
 Trichlorofluoromethane
 Concen: 0.04 ppbv
 RT: 3.94
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Mar 2022 22:23

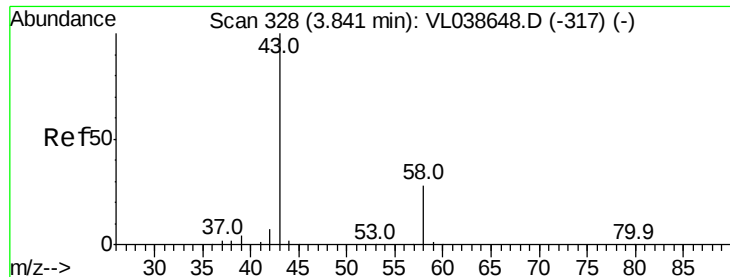
Tgt Ion: 101 Resp: 4234
 Ion Ratio Lower Upper
 101 100
 103 47.4 51.9 77.9#



#13
 Ethanol
 Concen: 0.33 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VL038695.D
 Acq: 22 Mar 2022 22:23

Tgt Ion: 45 Resp: 1584
 Ion Ratio Lower Upper
 45 100
 46 0.0 15.1 60.5#





#15

Acetone

Concen: 3.62 ppbv

RT: 3.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

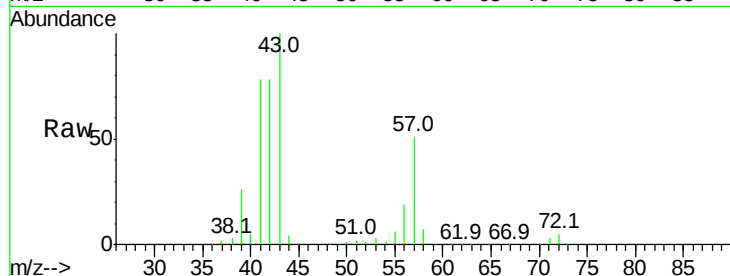
Acq: 22 Mar 2022 22:23

Tgt Ion: 43 Resp: 264831

Ion Ratio Lower Upper

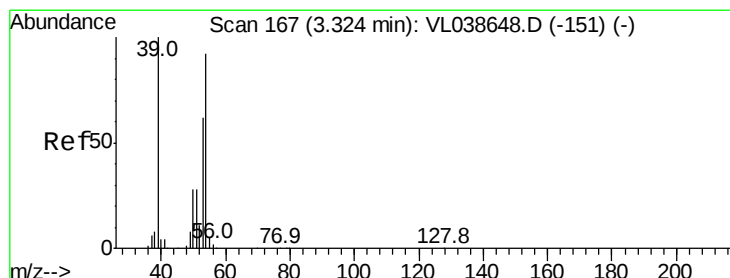
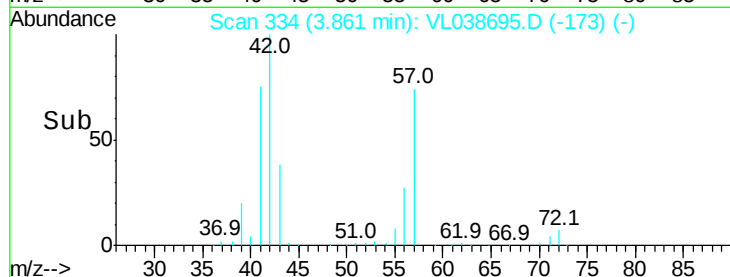
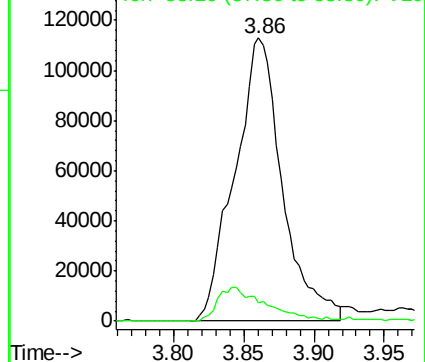
43 100

58 12.0 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: 0.03 ppbv

RT: 3.30 min Scan# 159

Delta R.T. -0.03 min

Lab File: VL038695.D

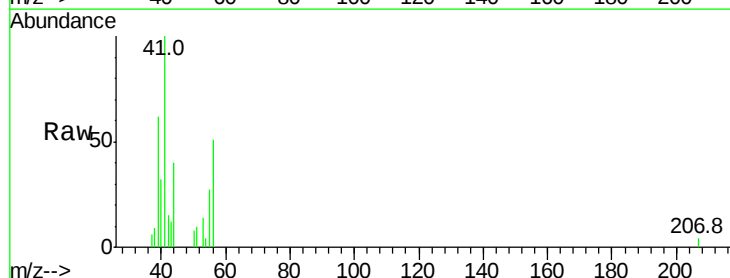
Acq: 22 Mar 2022 22:23

Tgt Ion: 39 Resp: 1135

Ion Ratio Lower Upper

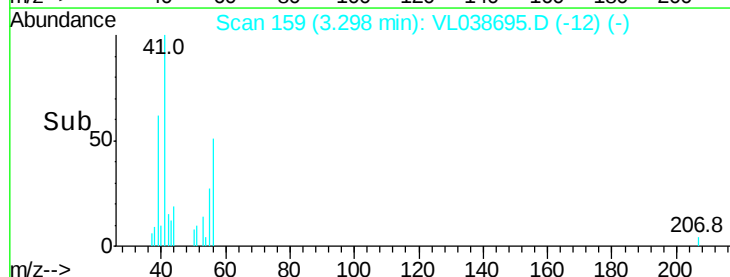
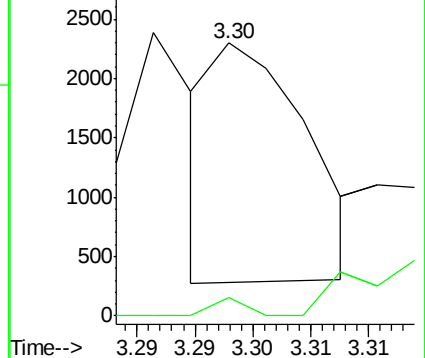
39 100

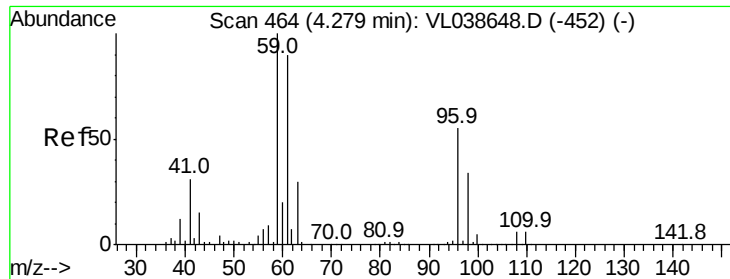
54 91.2 69.1 103.7



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#17

tert-Butyl alcohol

Concen: 0.03 ppbv

RT: 4.29 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

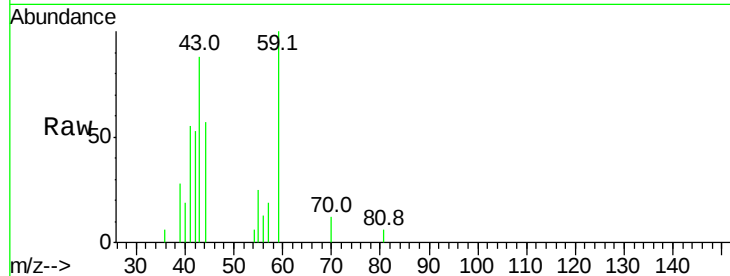
Acq: 22 Mar 2022 22:23

Tgt Ion: 59 Resp: 1915

Ion Ratio Lower Upper

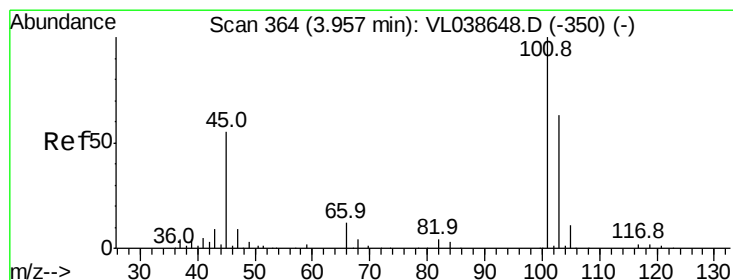
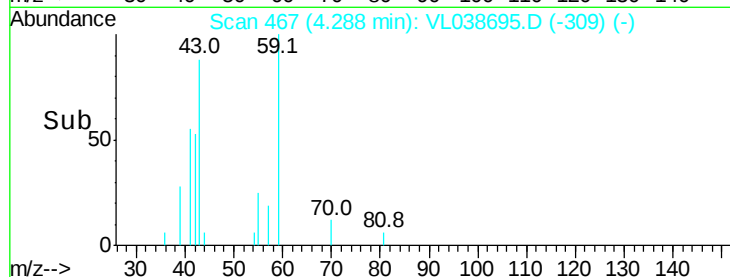
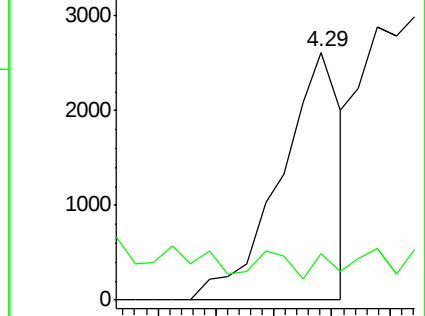
59 100

57 0.0 8.2 12.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#19

Isopropyl Alcohol

Concen: 0.69 ppbv

RT: 3.96 min Scan# 366

Delta R.T. 0.01 min

Lab File: VL038695.D

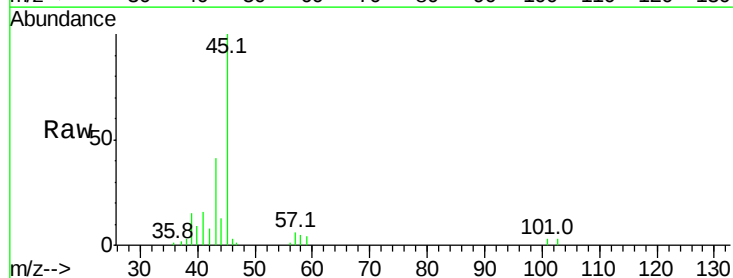
Acq: 22 Mar 2022 22:23

Tgt Ion: 45 Resp: 28161

Ion Ratio Lower Upper

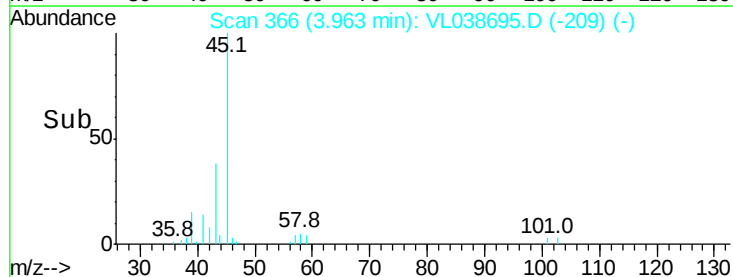
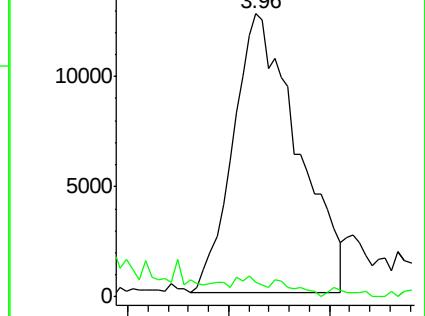
45 100

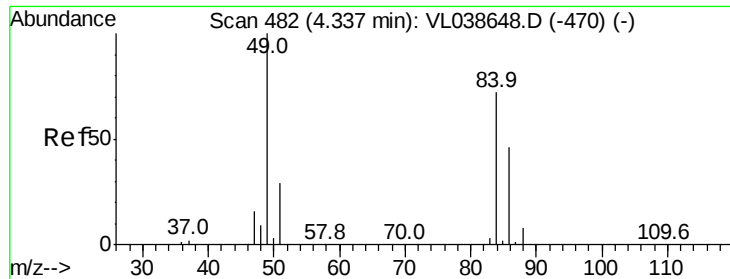
58 7.1 2.3 3.5#



Abundance Ion 45.10 (44.80 to 45.80): VL0

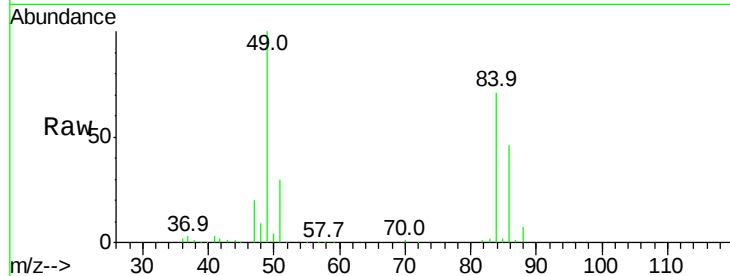
Ion 58.10 (57.80 to 58.80): VL0



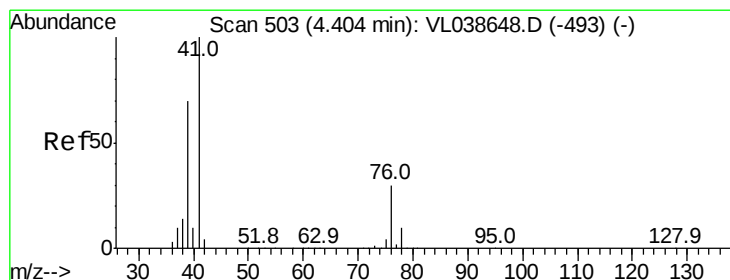
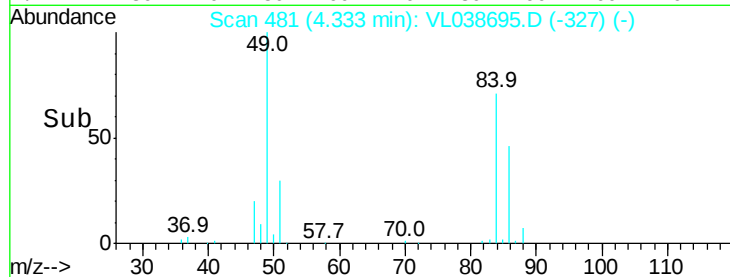
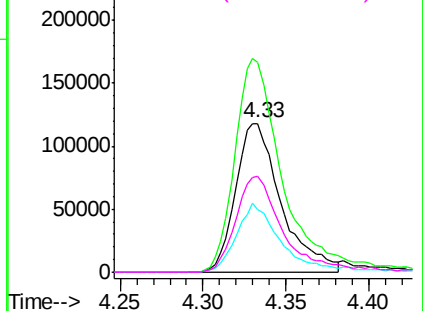


#20
Methylene Chloride
Concen: 7.31 ppbv
RT: 4.33
Delta R.T. MSVOA.L
Lab File: ClientSampleId :
Acq: 22 Mar 2022 22:23

Tgt Ion: 84 Resp: 225459
Ion Ratio Lower Upper
84 100
49 141.2 111.2 166.8
51 42.4 32.8 49.2
86 64.7 51.4 77.0

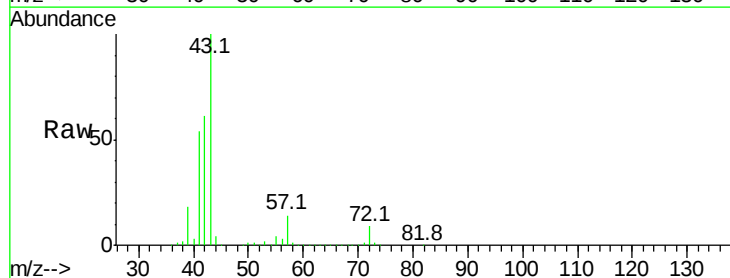


Abundance Ion 84.00 (83.70 to 84.70): VL0
Ion 49.10 (48.80 to 49.80): VL0
Ion 51.10 (50.80 to 51.80): VL0
Ion 86.00 (85.70 to 86.70): VL0

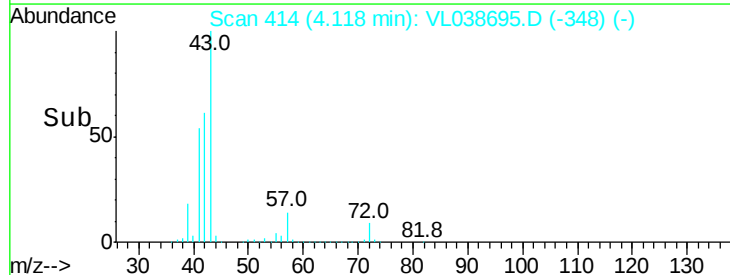
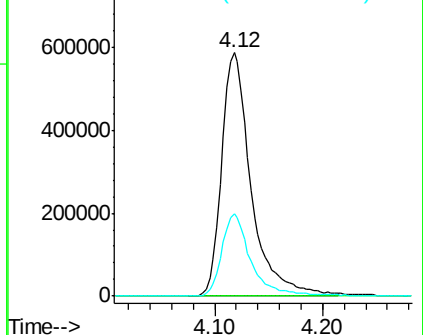


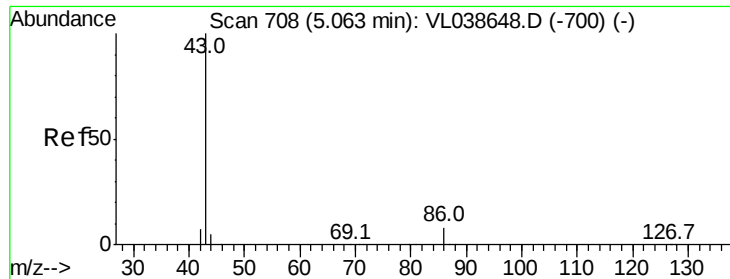
#21
Allyl Chloride
Concen: 21.23 ppbv
RT: 4.12 min Scan# 414
Delta R.T. -0.29 min
Lab File: VL038695.D
Acq: 22 Mar 2022 22:23

Tgt Ion: 41 Resp: 1119138
Ion Ratio Lower Upper
41 100
76 0.0 25.0 37.6#
39 33.6 56.6 85.0#



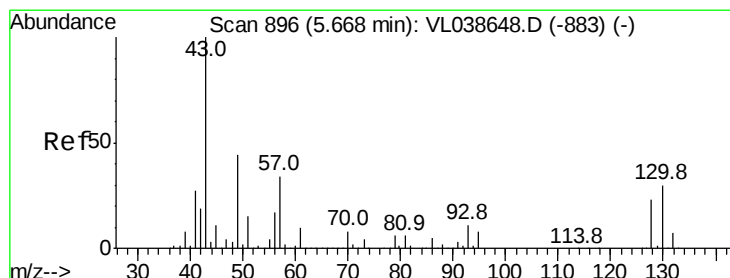
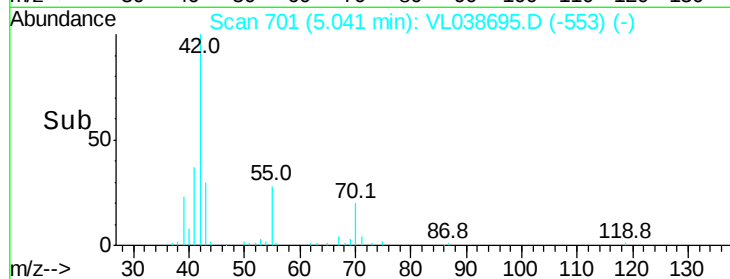
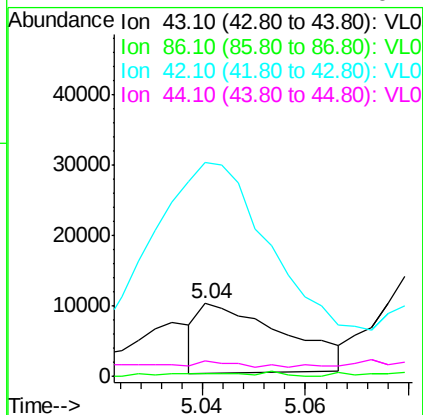
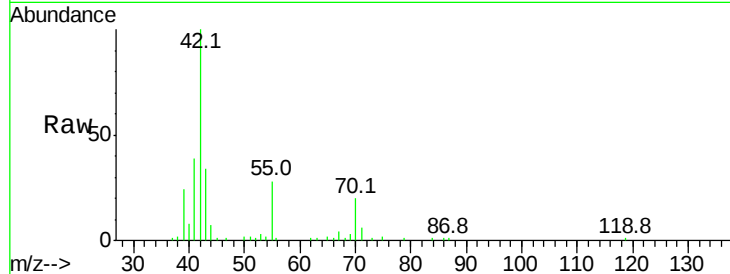
Abundance Ion 41.10 (40.80 to 41.80): VL0
Ion 76.10 (75.80 to 76.80): VL0
Ion 39.10 (38.80 to 39.80): VL0





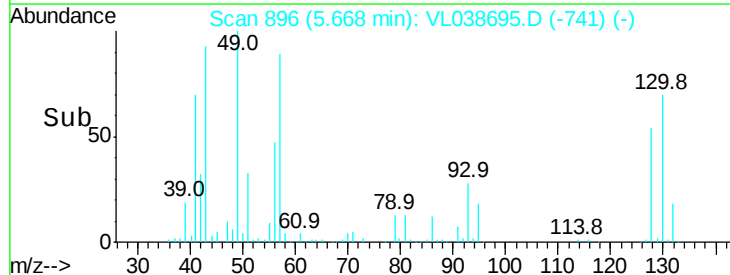
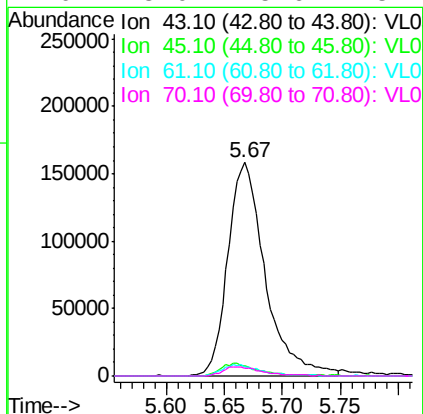
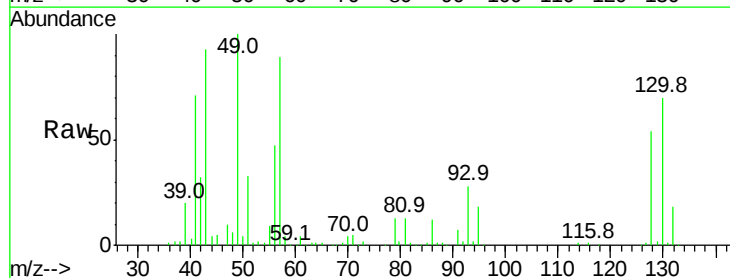
#23
 Vinyl Acetate
 Concen: 0.16 ppbv
 RT: 5.04
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Mar 2022 22:23

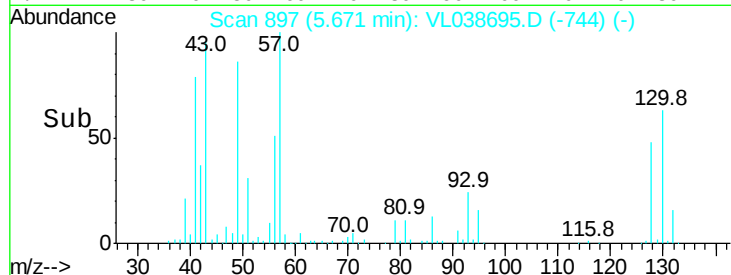
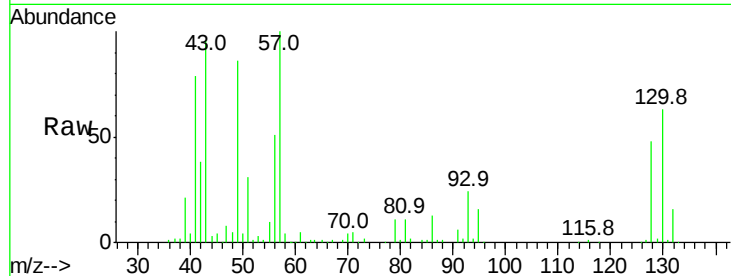
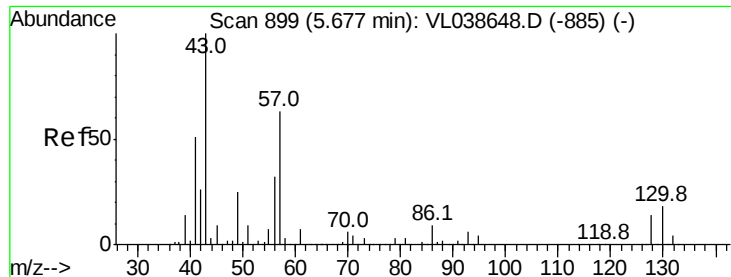
Tgt Ion:	43	Resp:	11401
Ion	Ratio	Lower	Upper
43	100		
86	3.5	5.6	8.4#
42	394.1	6.8	10.2#
44	12.1	4.2	6.2#



#25
 Ethyl Acetate
 Concen: 1.93 ppbv
 RT: 5.67 min Scan# 896
 Delta R.T. -0.00 min
 Lab File: VL038695.D
 Acq: 22 Mar 2022 22:23

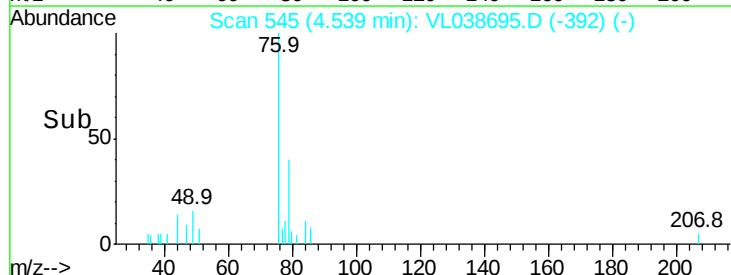
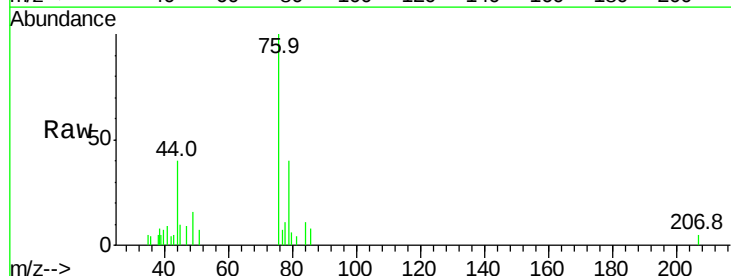
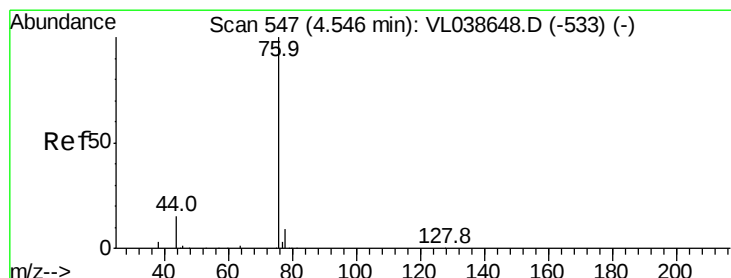
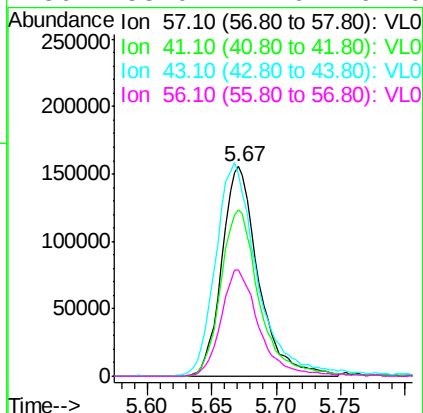
Tgt Ion:	43	Resp:	355099
Ion	Ratio	Lower	Upper
43	100		
45	6.4	8.2	12.4#
61	5.8	8.3	12.5#
70	5.0	5.6	8.4#





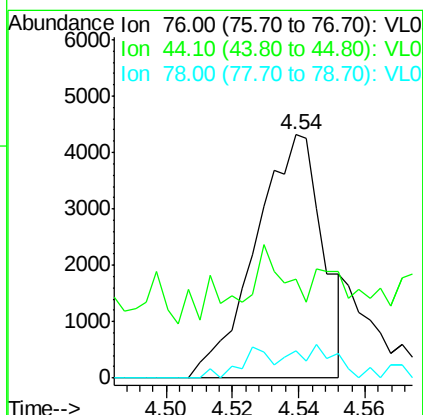
#26
Hexane
Concen: 3.72 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
COP77DL
Acq: 22 Mar 2022 22:23

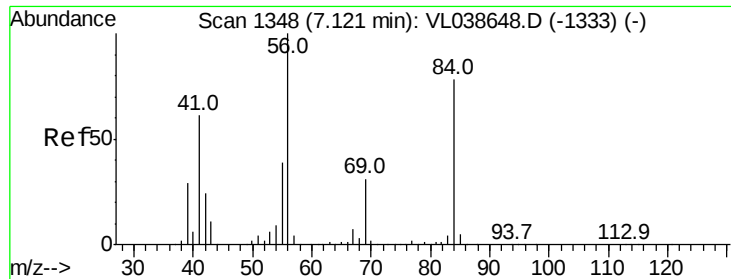
Tgt Ion: 57 Resp: 307133
Ion Ratio Lower Upper
57 100
41 84.0 67.0 100.4
43 119.1 184.2 276.2#
56 53.0 42.6 64.0



#27
Carbon Disulfide
Concen: 0.08 ppbv
RT: 4.54 min Scan# 545
Delta R.T. -0.01 min
Lab File: VL038695.D
Acq: 22 Mar 2022 22:23

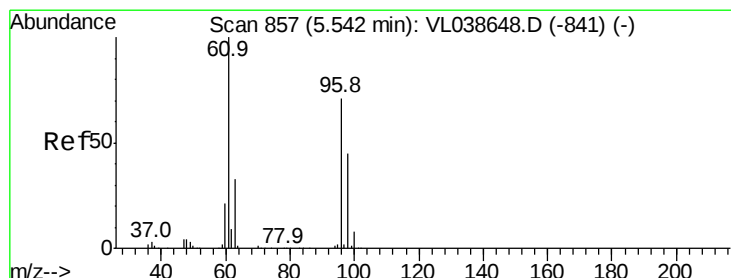
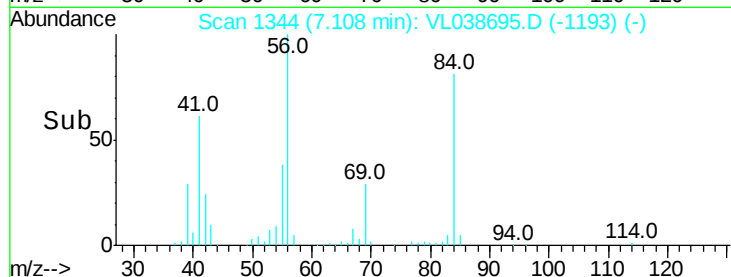
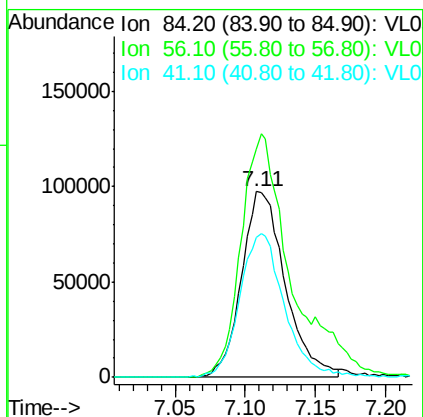
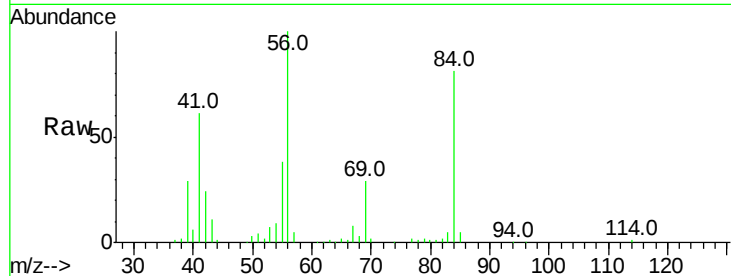
Tgt Ion: 76 Resp: 6103
Ion Ratio Lower Upper
76 100
44 0.0 12.4 18.6#
78 16.4 7.8 11.8#





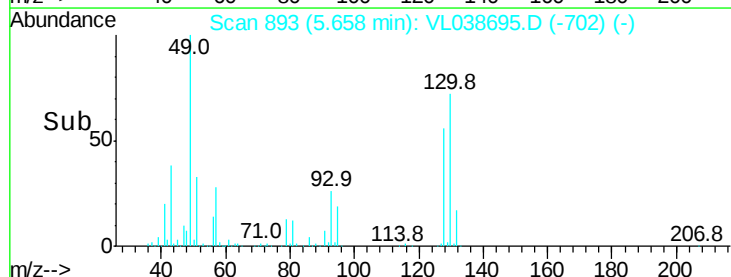
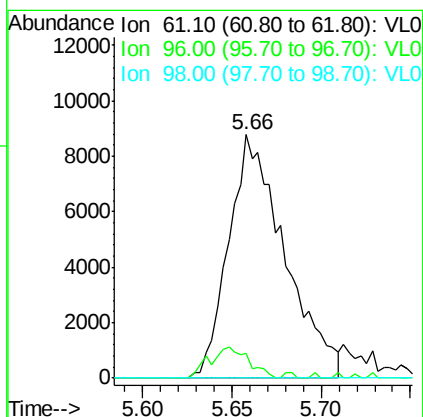
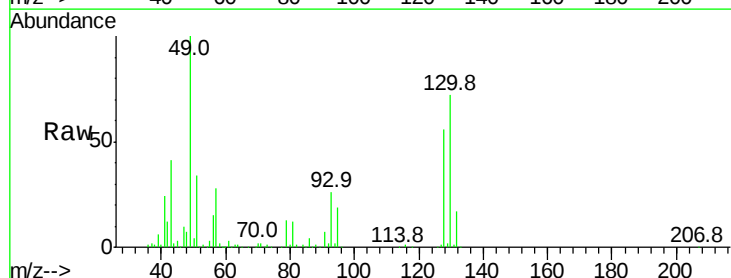
#30
Cyclohexane
Concen: 2.95 ppbv
RT: 7.11
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 22 Mar 2022 22:23

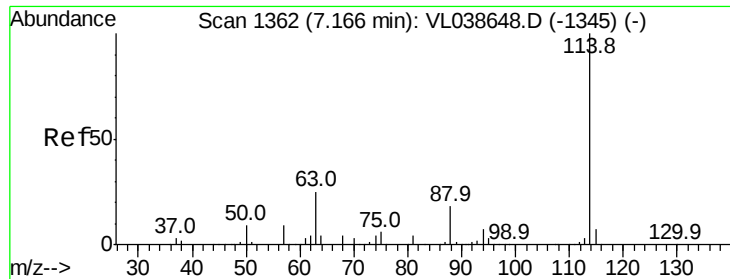
Tgt Ion: 84 Resp: 211945
Ion Ratio Lower Upper
84 100
56 151.8 108.2 162.4
41 79.4 61.8 92.6



#31
cis-1,2-Dichloroethene
Concen: 0.25 ppbv
RT: 5.66 min Scan# 893
Delta R.T. 0.12 min
Lab File: VL038695.D
Acq: 22 Mar 2022 22:23

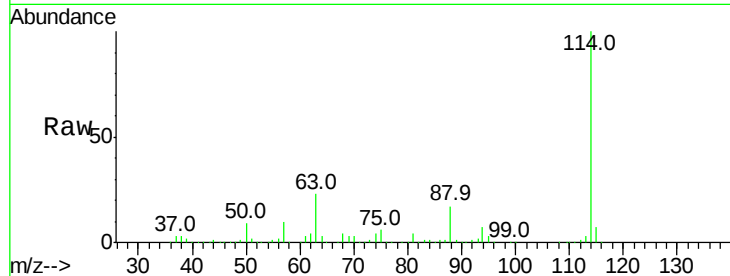
Tgt Ion: 61 Resp: 19170
Ion Ratio Lower Upper
61 100
96 10.2 56.6 84.8#
98 0.0 36.3 54.5#



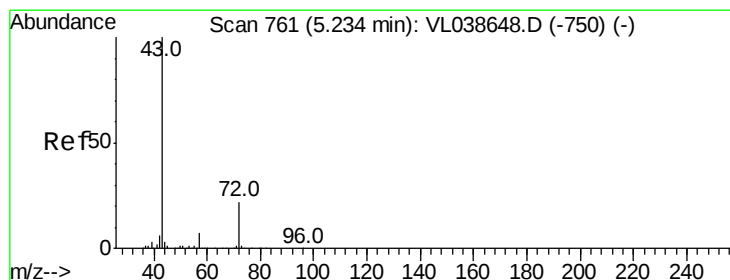
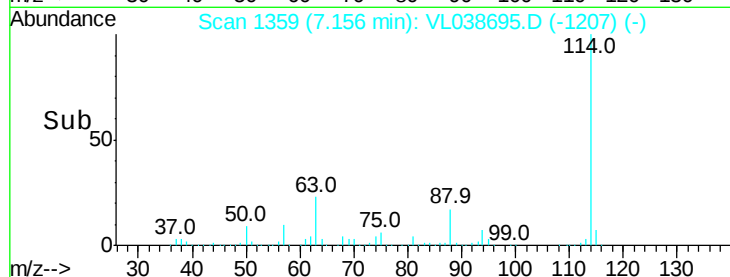
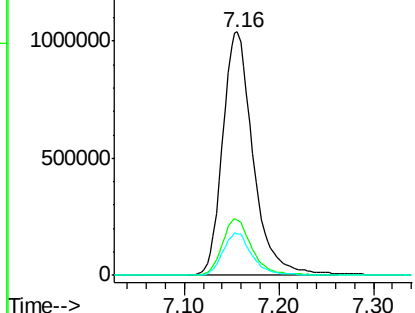


#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.16
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 COP77DL
 Acq: 22 Mar 2022 22:23

Tgt Ion: 114 Resp: 2330925
 Ion Ratio Lower Upper
 114 100
 63 23.0 19.4 29.0
 88 16.7 13.9 20.9

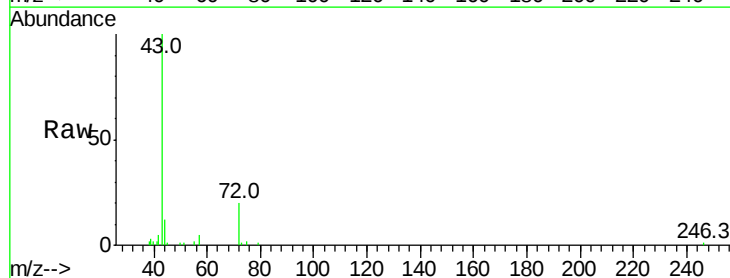


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

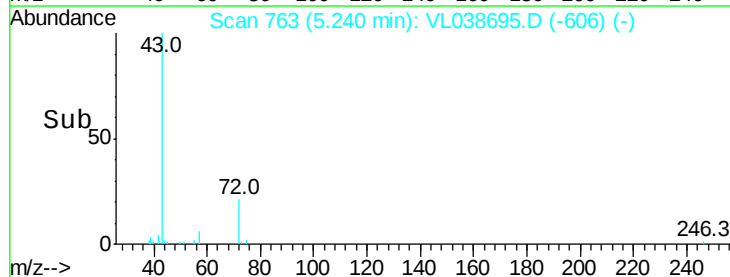
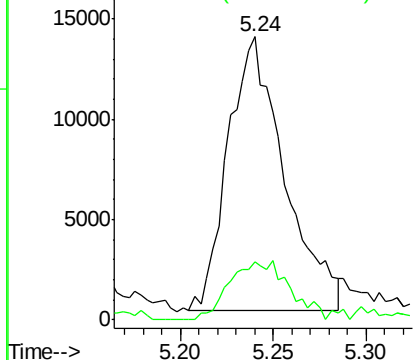


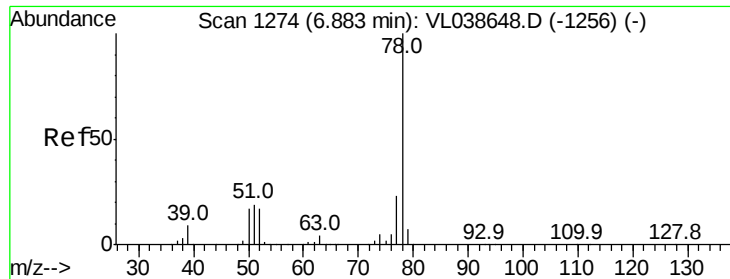
#34
 2-Butanone
 Concen: 0.31 ppbv
 RT: 5.24 min Scan# 763
 Delta R.T. 0.01 min
 Lab File: VL038695.D
 Acq: 22 Mar 2022 22:23

Tgt Ion: 43 Resp: 28937
 Ion Ratio Lower Upper
 43 100
 72 22.7 17.8 26.8



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.06 ppbv

RT: 6.87

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Mar 2022 22:23

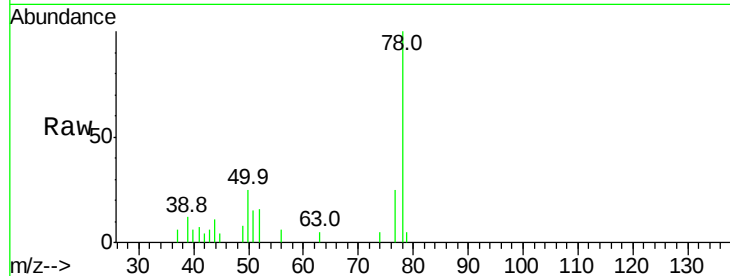
Tgt Ion: 78 Resp: 10533

Ion Ratio Lower Upper

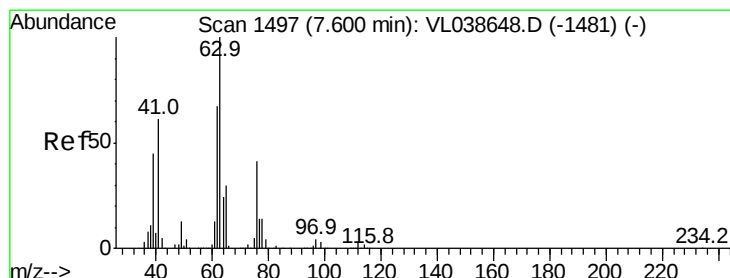
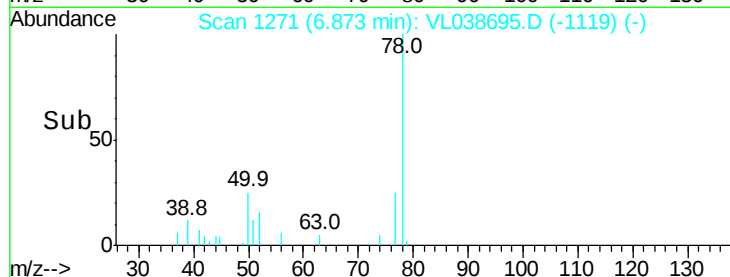
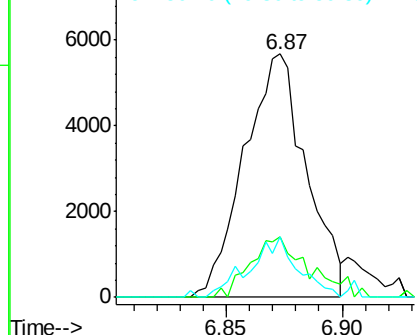
78 100

77 24.9 18.1 27.1

50 40.5 13.6 20.4#



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: 7.31 ppbv

RT: 7.15 min Scan# 1358

Delta R.T. -0.45 min

Lab File: VL038695.D

Acq: 22 Mar 2022 22:23

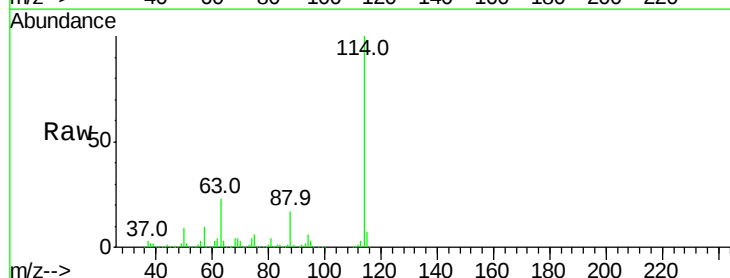
Tgt Ion: 63 Resp: 514120

Ion Ratio Lower Upper

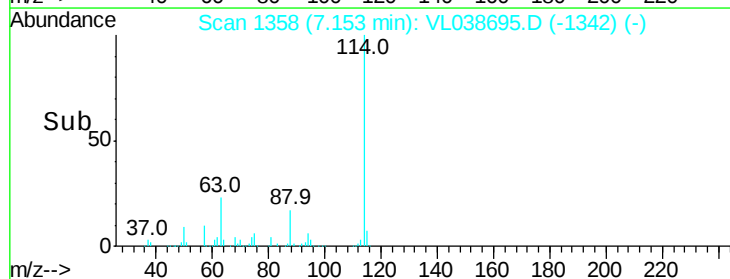
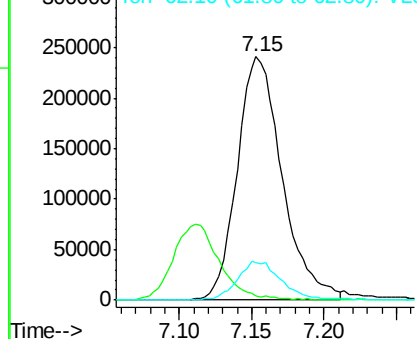
63 100

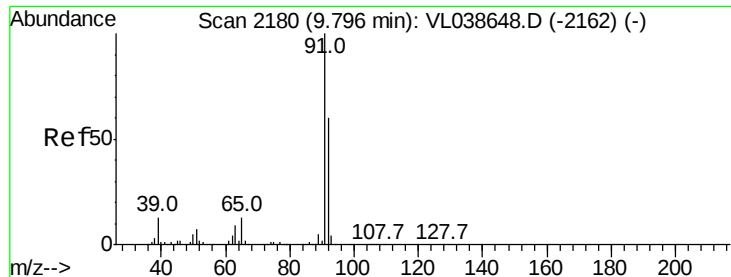
41 1.6 49.0 73.6#

62 15.7 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: 38.82 ppbv

RT: 9.79 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

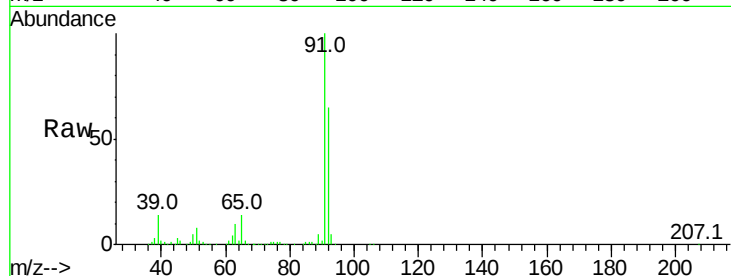
Acq: 22 Mar 2022 22:23

Tgt Ion: 91 Resp: 7503215

Ion Ratio Lower Upper

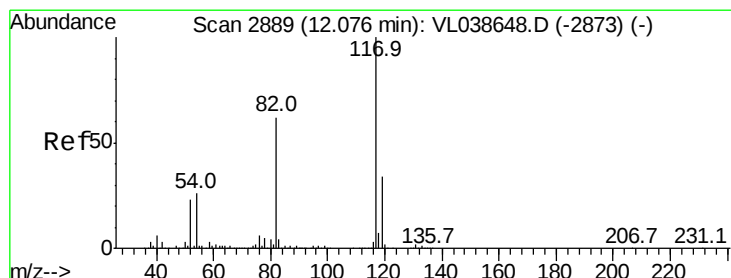
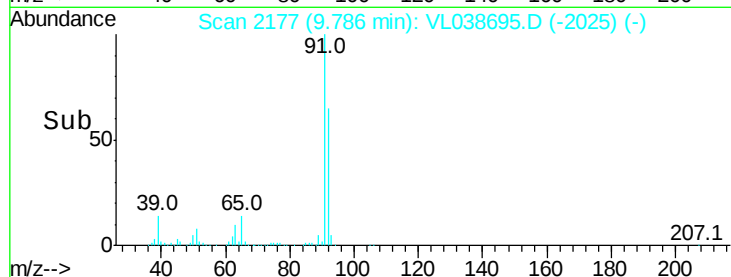
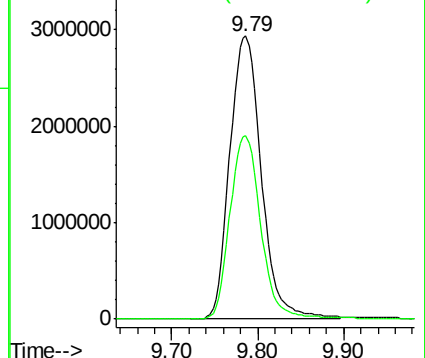
91 100

92 63.9 48.7 73.1



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.06 min Scan# 2885

Delta R.T. -0.01 min

Lab File: VL038695.D

Acq: 22 Mar 2022 22:23

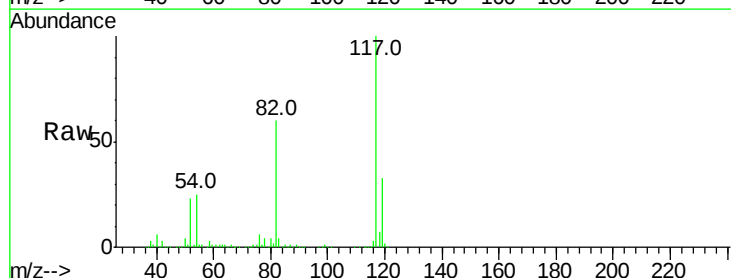
Tgt Ion: 117 Resp: 2039369

Ion Ratio Lower Upper

117 100

82 62.9 51.6 77.4

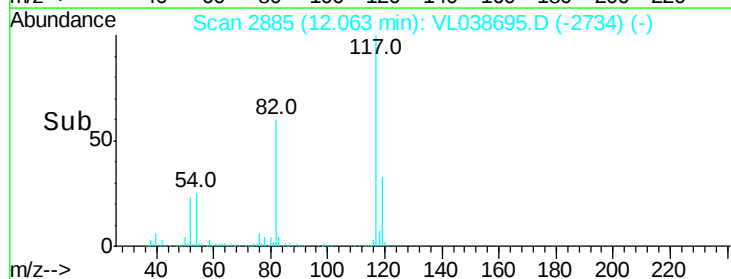
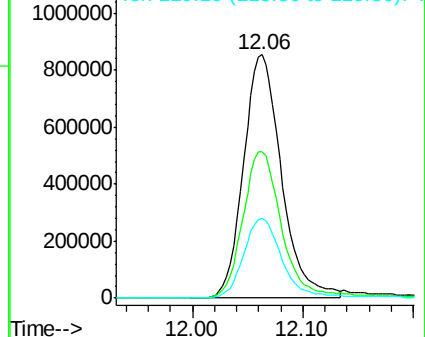
119 34.4 26.9 40.3

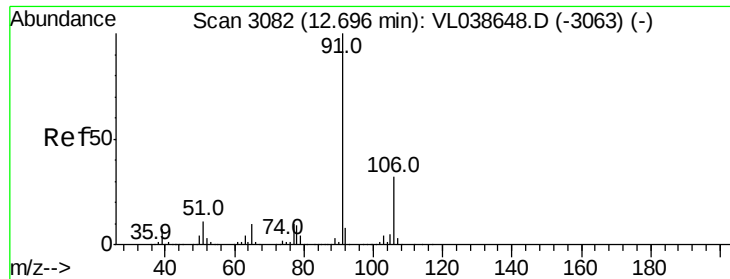


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#58

Ethyl Benzene

Concen: 0.06 ppbv

RT: 12.69

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

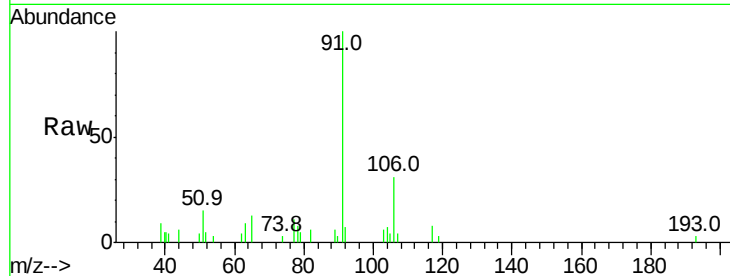
Acq: 22 Mar 2022 22:23

Tgt Ion: 91 Resp: 14421

Ion Ratio Lower Upper

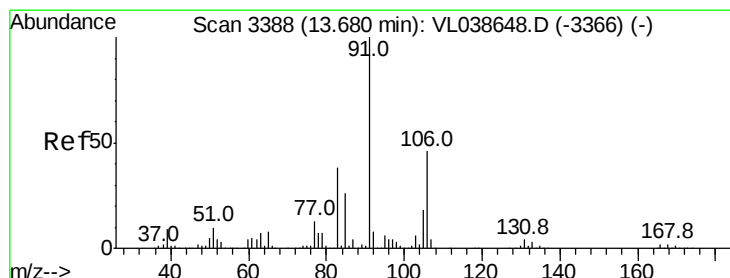
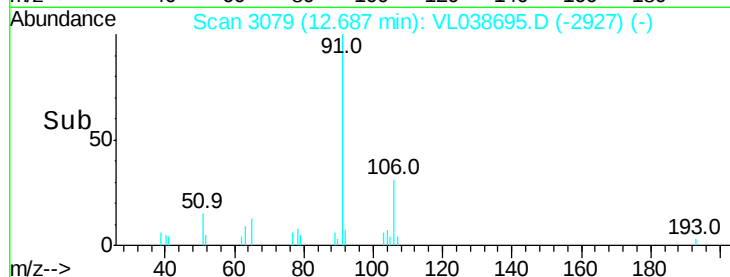
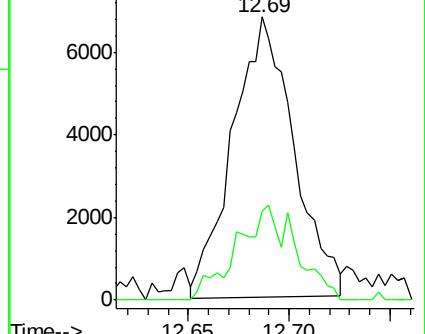
91 100

106 32.7 25.4 38.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.02 ppbv

RT: 13.67 min Scan# 3384

Delta R.T. -0.01 min

Lab File: VL038695.D

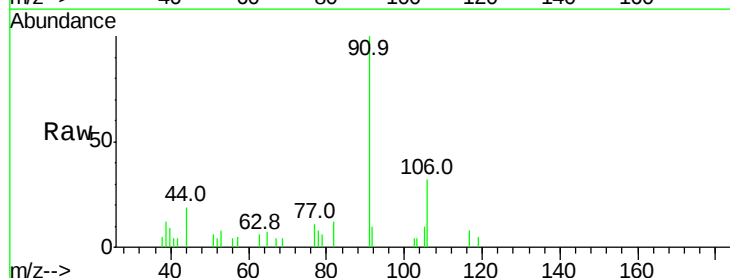
Acq: 22 Mar 2022 22:23

Tgt Ion: 91 Resp: 4501

Ion Ratio Lower Upper

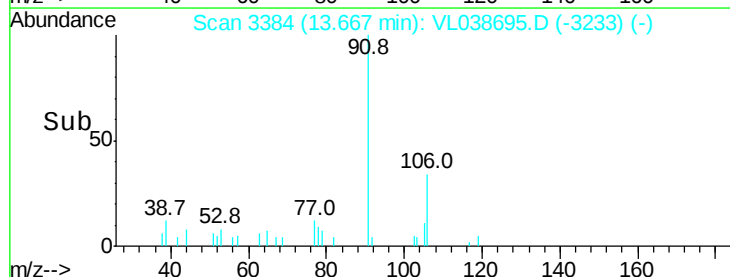
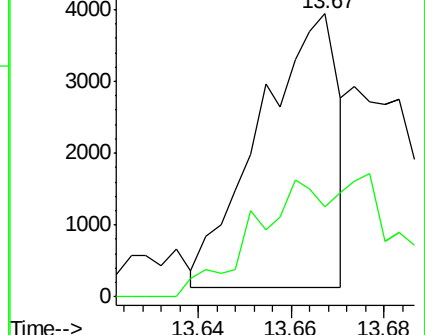
91 100

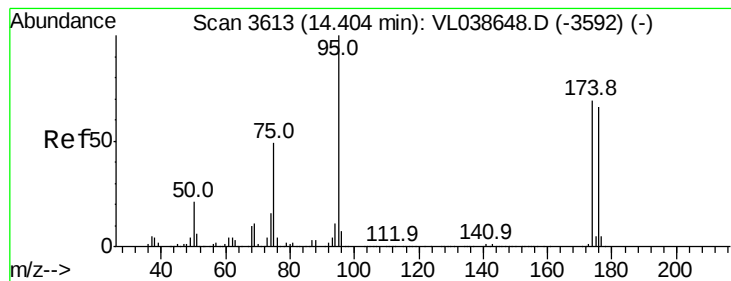
106 0.0 23.5 70.5#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.55 ppbv

RT: 14.39

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

COP77DL

Acq: 22 Mar 2022 22.25

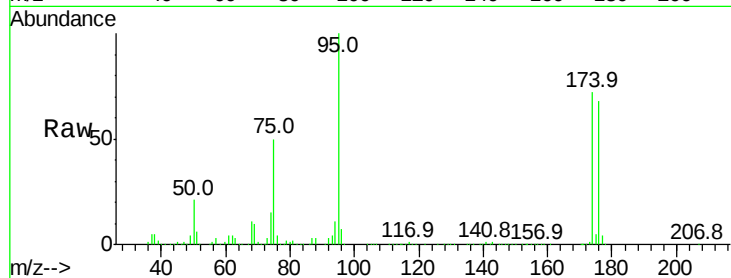
Tgt Ion: 95 Resp: 1493142

Ion Ratio Lower Upper

95 100

174 75.3 56.1 84.1

175 5.6 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

