

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042021\
 Data File : VL036838.D
 Acq On : 21 Apr 2021 1:34
 Operator : SY/AP
 Sample : M2096-05 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 21 06:40:24 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032521AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Mar 25 09:42:40 2021
 QLast Update : Thu Mar 25 09:42:40 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1161848	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2963663	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2589951	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	2020366	9.79	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.90%

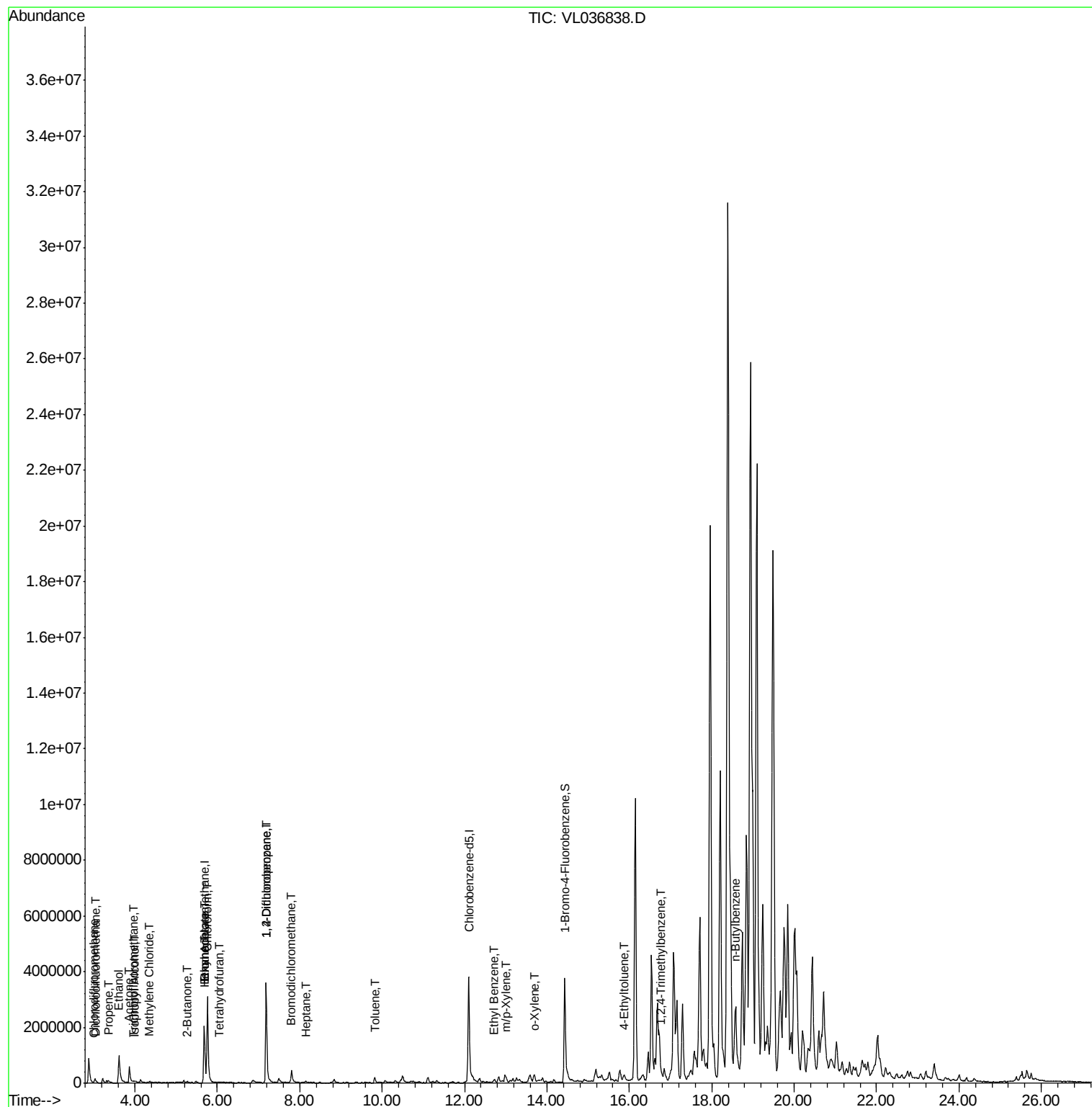
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	16426	0.087	ppbv	91
3) Chlorodifluoromethane	2.99	51	23164	0.107	ppbv #	85
9) Propene	3.36	41	17746	0.256	ppbv	89
10) Heptane	8.13	43	6405	0.036	ppbv #	1
11) Trichlorofluoromethane	3.96	101	9971	0.052	ppbv #	73
13) Ethanol	3.61	45	1539455	186.806	ppbv	94
15) Acetone	3.86	43	778272	6.806	ppbv	96
19) Isopropyl Alcohol	3.98	45	18378	0.292	ppbv #	1
20) Methylene Chloride	4.35	84	12401	0.232	ppbv	95
25) Ethyl Acetate	5.69	43	70223	0.258	ppbv #	82
26) Hexane	5.70	57	149631	1.186	ppbv #	45
29) Chloroform	5.76	83	2358212	11.688	ppbv	100
34) 2-Butanone	5.26	43	28796	0.199	ppbv #	55
39) 1,2-Dichloropropane	7.19	63	793232	7.154	ppbv #	23
41) Tetrahydrofuran	6.06	42	3567	0.053	ppbv #	41
42) Bromodichloromethane	7.80	83	312674	1.429	ppbv	99
53) Toluene	9.83	91	170470	0.586	ppbv	100
58) Ethyl Benzene	12.73	91	33249	0.088	ppbv	99
59) m/p-Xylene	13.01	91	62685	0.191	ppbv #	32
60) o-Xylene	13.71	91	100228	0.315	ppbv	95
70) n-Butylbenzene	18.58	91	51026	0.120	ppbv #	90
72) 4-Ethyltoluene	15.86	105	23565	0.068	ppbv #	44
74) 1,2,4-Trimethylbenzene	16.78	105	149530	0.430	ppbv #	65

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 21 Apr 2021 1:34

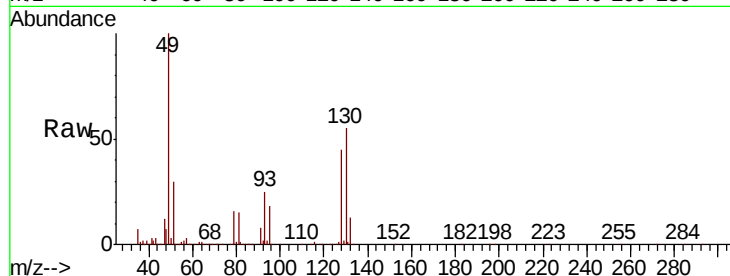
Tot Ion: 49 Resp: 1161848

Ion Ratio Lower Upper

49 100

128 47.7 23.5 70.6

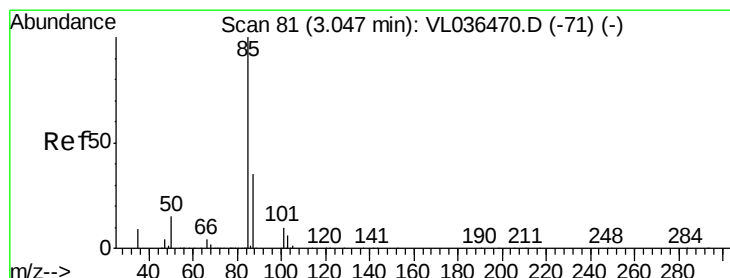
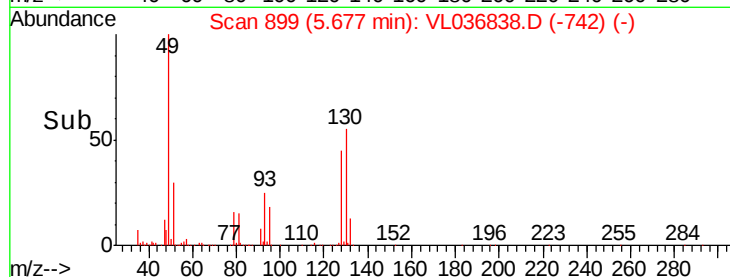
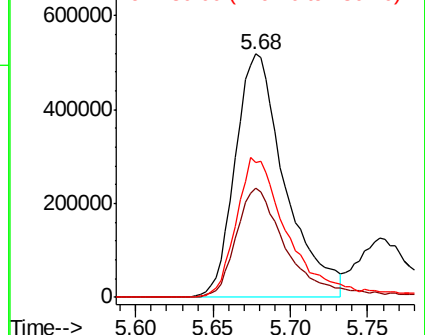
130 61.7 29.1 87.4



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.087 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.01 min

Lab File: VL036838.D

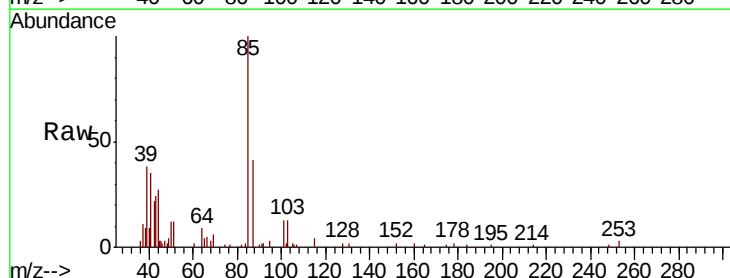
Acq: 21 Apr 2021 1:34

Tgt Ion: 85 Resp: 16426

Ion Ratio Lower Upper

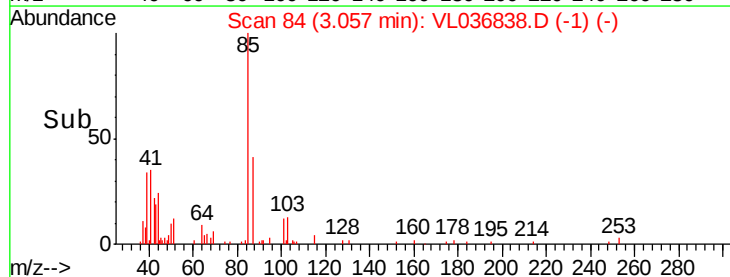
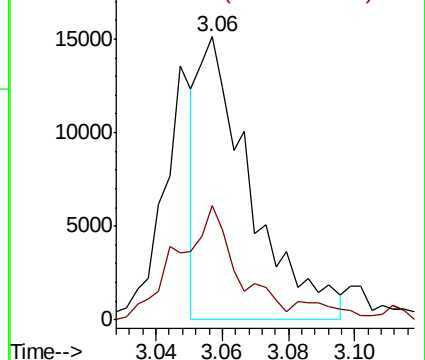
85 100

87 40.1 27.8 41.8



Abundance Ion 85.00 (84.70 to 85.70): VL0

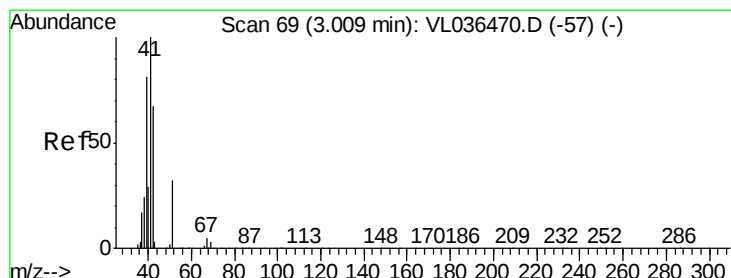
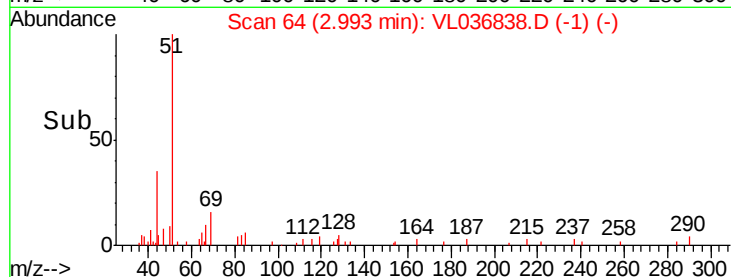
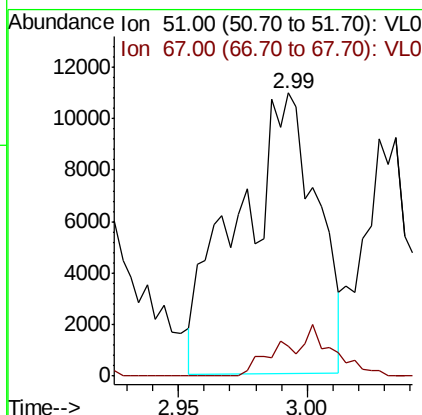
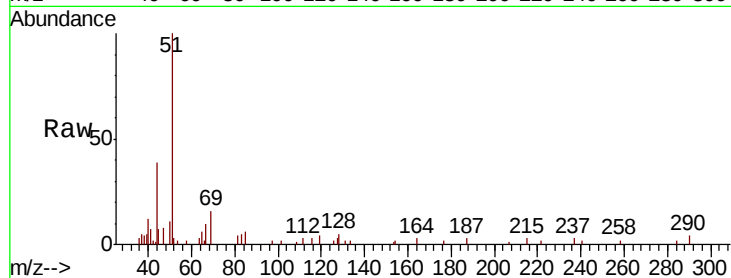
Ion 87.00 (86.70 to 87.70): VL0





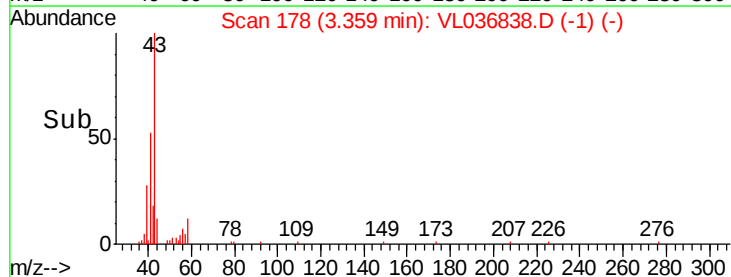
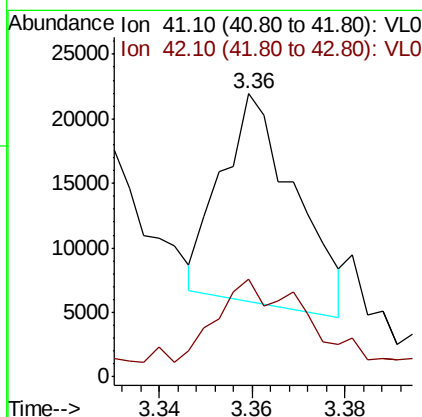
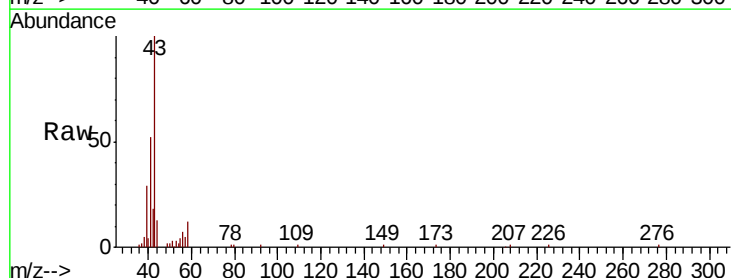
#3
 Chlorodifluoromethane
 Concen: 0.107 ppbv
 RT: 2.99 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 21 Apr 2021 1:34

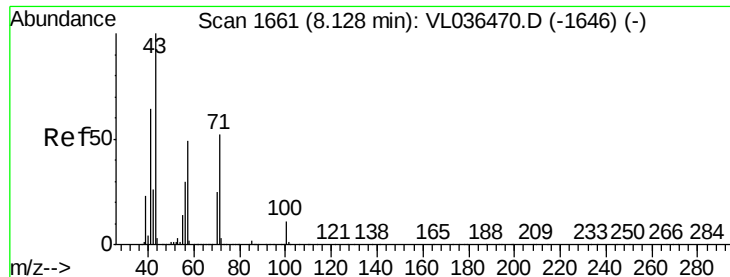
Tot Ion: 51 Resp: 23164
 Ion Ratio Lower Upper
 51 100
 67 11.7 14.7 22.1#



#9
 Propene
 Concen: 0.256 ppbv
 RT: 3.36 min Scan# 178
 Delta R.T.: 0.35 min
 Lab File: VL036838.D
 Acq: 21 Apr 2021 1:34

Tgt Ion: 41 Resp: 17746
 Ion Ratio Lower Upper
 41 100
 42 62.3 57.0 85.4





#10

Heptane

Concen: 0.036 ppbv

RT: 8.13 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

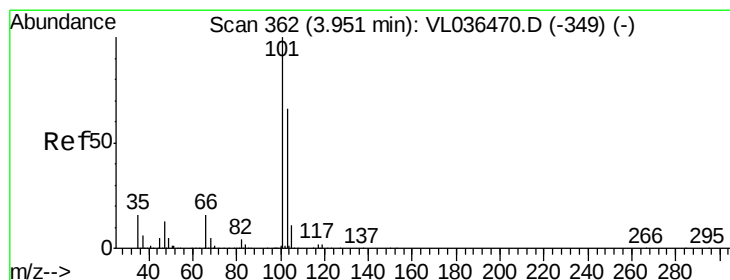
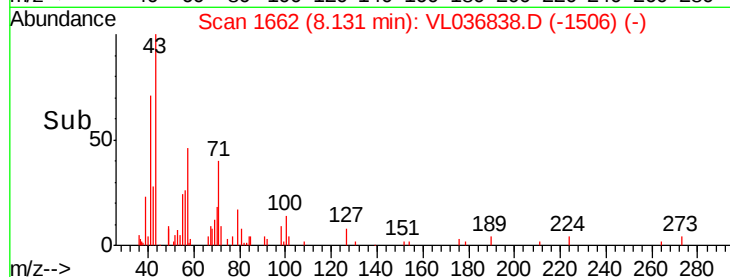
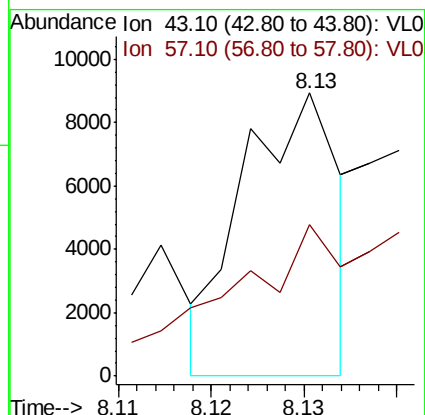
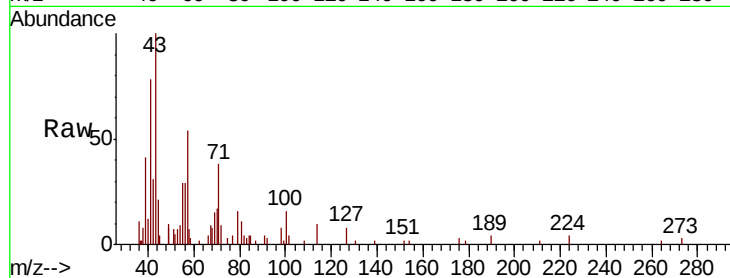
Acq: 21 Apr 2021 1:34

Tot Ion: 43 Resp: 6405

Ion Ratio Lower Upper

43 100

57 160.6 39.0 58.6#



#11

Trichlorofluoromethane

Concen: 0.052 ppbv

RT: 3.96 min Scan# 365

Delta R.T. 0.01 min

Lab File: VL036838.D

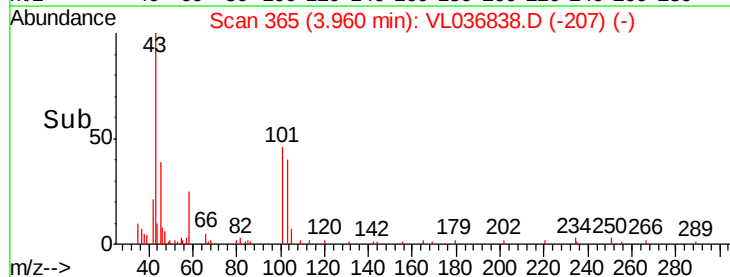
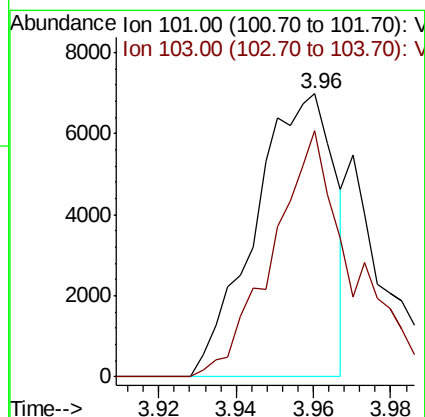
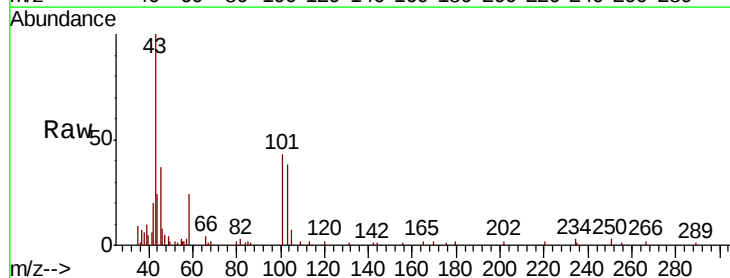
Acq: 21 Apr 2021 1:34

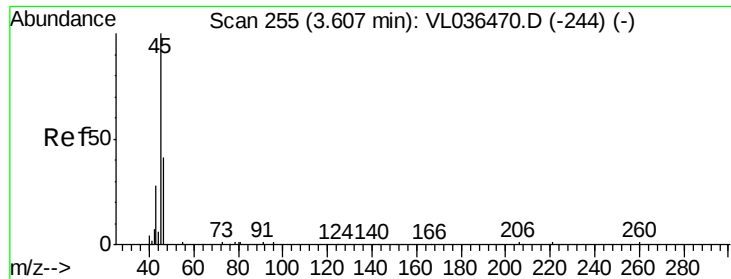
Tgt Ion:101 Resp: 9971

Ion Ratio Lower Upper

101 100

103 87.1 52.5 78.7#





#13

Ethanol

Concen: 186.806 ppbv

RT: 3.61 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

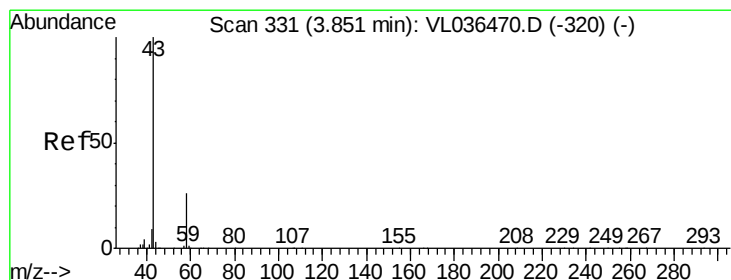
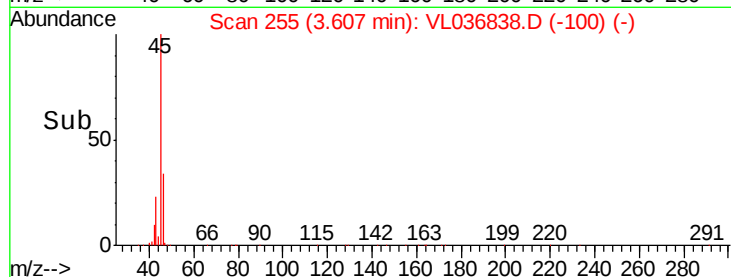
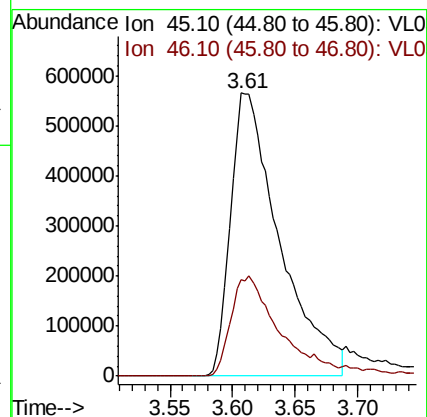
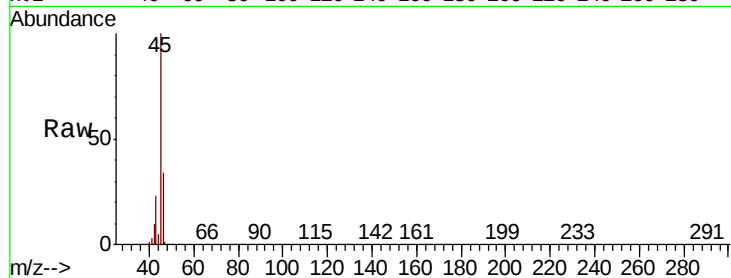
Acq: 21 Apr 2021 1:34

Tot Ion: 45 Resp: 1539455

Ion Ratio Lower Upper

45 100

46 37.9 16.6 66.2



#15

Acetone

Concen: 6.806 ppbv

RT: 3.86 min Scan# 335

Delta R.T. 0.01 min

Lab File: VL036838.D

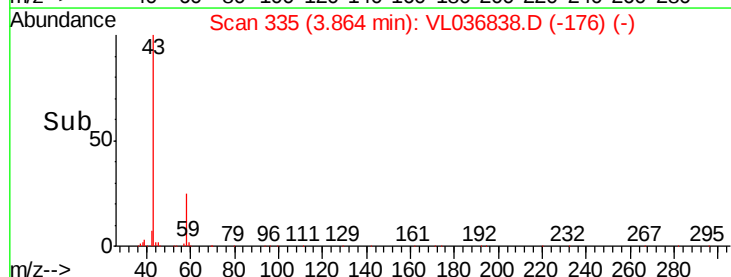
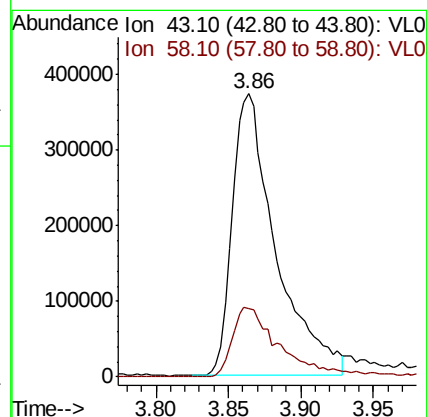
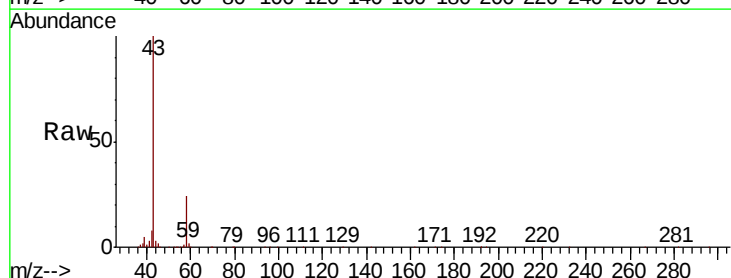
Acq: 21 Apr 2021 1:34

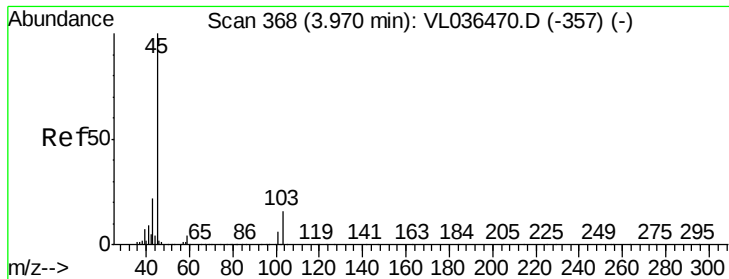
Tgt Ion: 43 Resp: 778272

Ion Ratio Lower Upper

43 100

58 28.4 21.2 31.8





#19

Isopropyl Alcohol

Concen: 0.292 ppbv

RT: 3.98 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

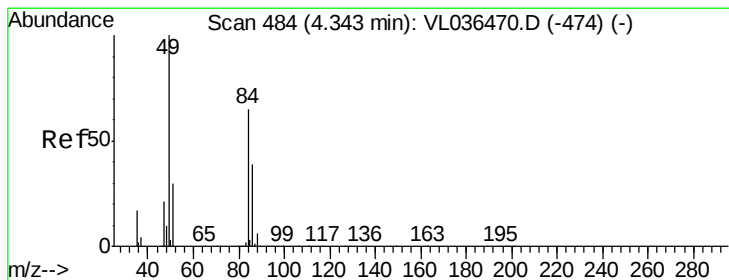
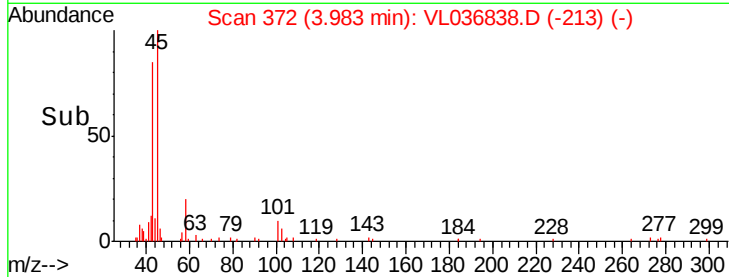
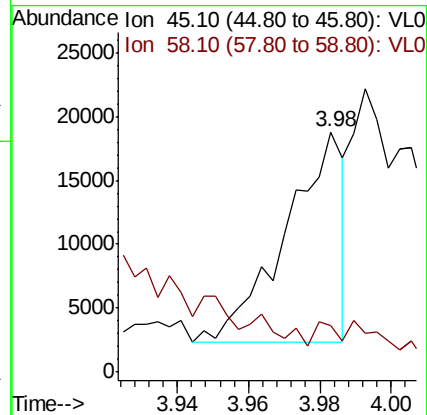
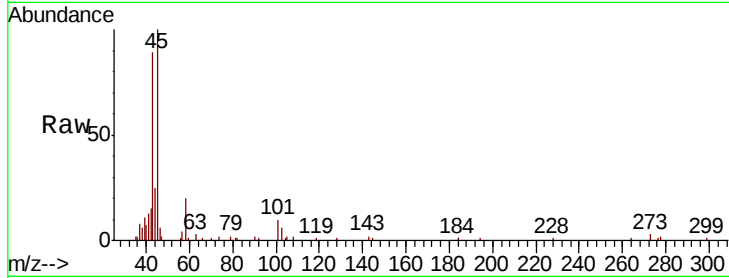
Acq: 21 Apr 2021 1:34

Tot Ion: 45 Resp: 18378

Ion Ratio Lower Upper

45 100

58 39.5 2.9 4.3#



#20

Methylene Chloride

Concen: 0.232 ppbv

RT: 4.35 min Scan# 487

Delta R.T. 0.01 min

Lab File: VL036838.D

Acq: 21 Apr 2021 1:34

Tgt Ion: 84 Resp: 12401

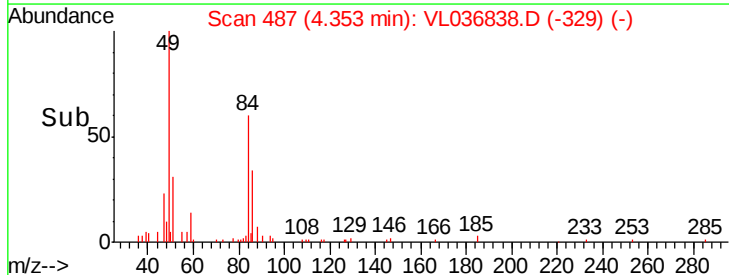
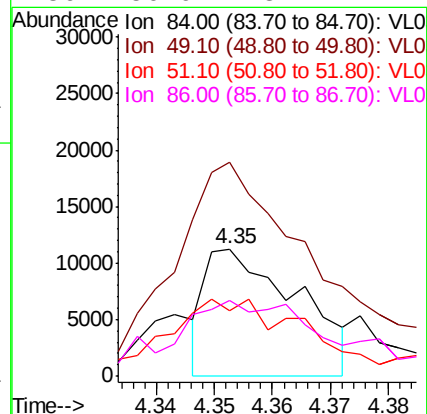
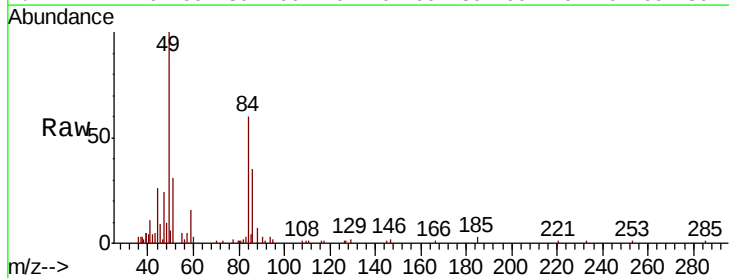
Ion Ratio Lower Upper

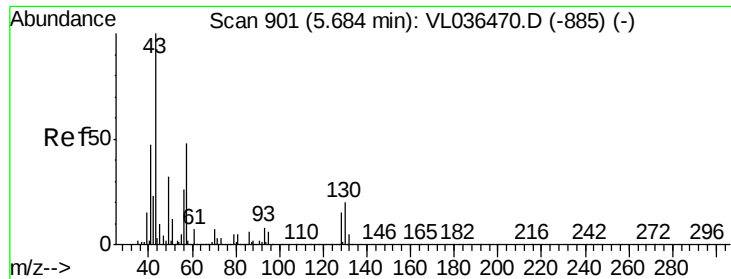
84 100

49 158.6 122.9 184.3

51 52.5 36.9 55.3

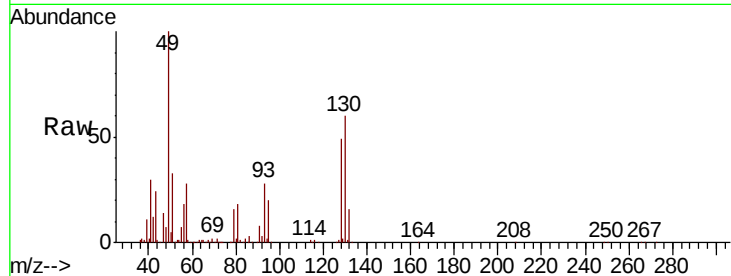
86 56.9 48.2 72.4





#25
Ethyl Acetate
Concen: 0.258 ppbv
RT: 5.69 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 21 Apr 2021 1:34

Tot Ion:	43	Resp:	70223
Ion	Ratio	Lower	Upper
43	100		
45	3.6	7.9	11.9#
61	0.0	7.4	11.2#
70	3.2	5.1	7.7#



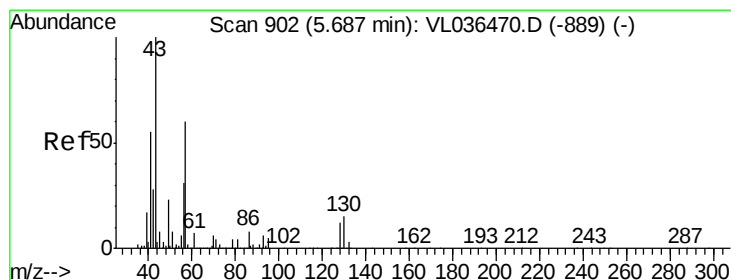
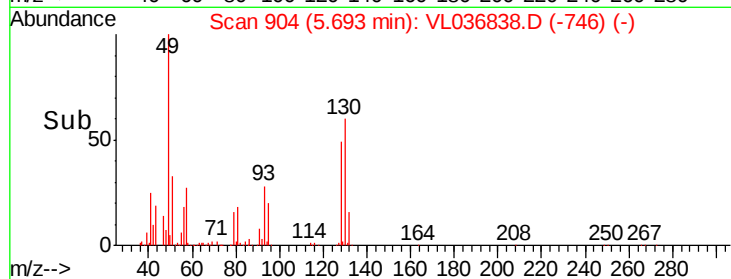
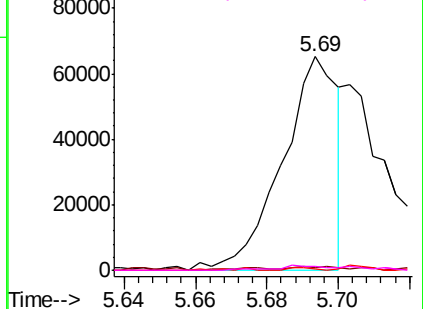
Abundance

Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

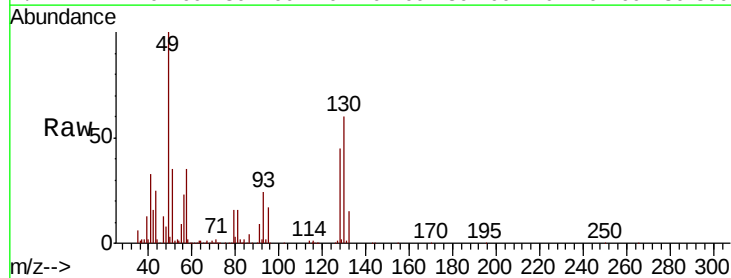
Ion 61.10 (60.80 to 61.80): VL0

Ion 70.10 (69.80 to 70.80): VL0



#26
Hexane
Concen: 1.186 ppbv
RT: 5.70 min Scan# 905
Delta R.T.: 0.01 min
Lab File: VL036838.D
Acq: 21 Apr 2021 1:34

Tgt Ion:	57	Resp:	149631
Ion	Ratio	Lower	Upper
57	100		
41	111.3	77.2	115.8
43	85.9	173.8	260.6#
56	66.0	43.8	65.6#



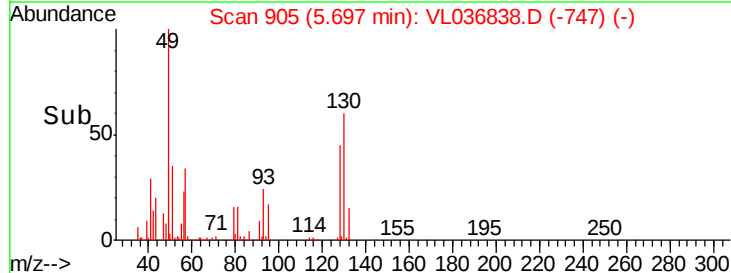
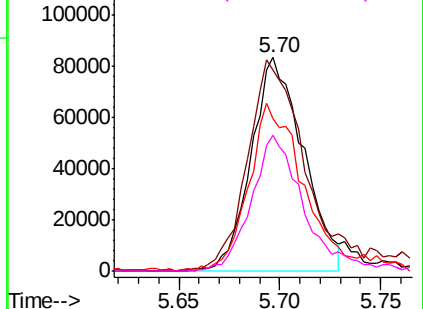
Abundance

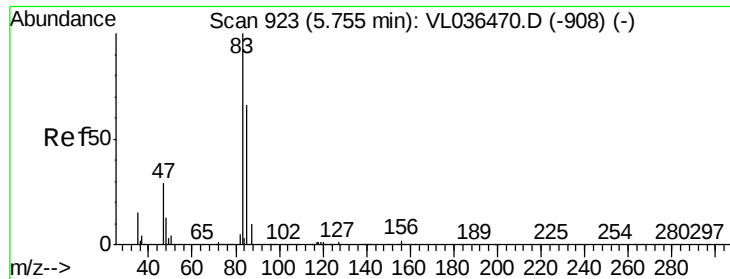
Ion 57.10 (56.80 to 57.80): VL0

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: 11.688 ppbv

RT: 5.76 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

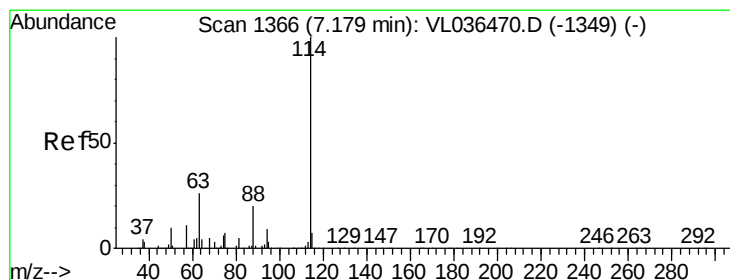
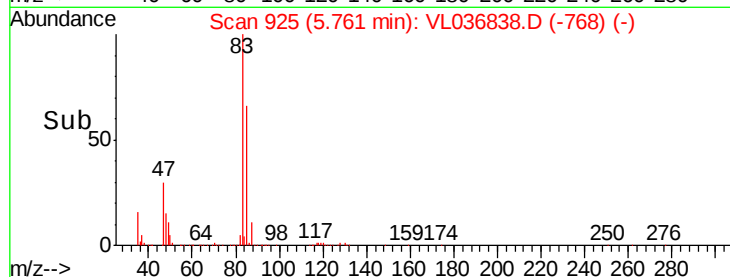
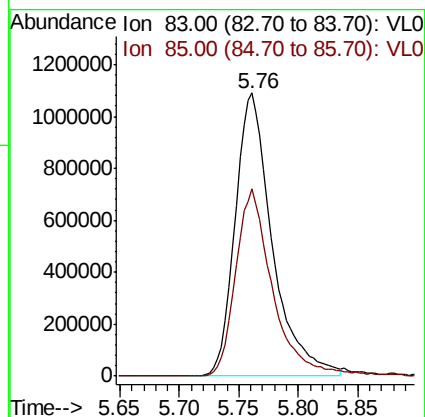
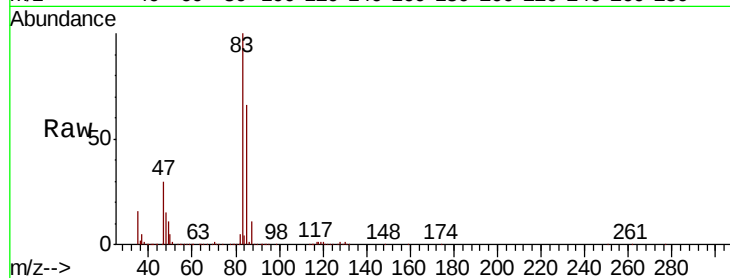
Acq: 21 Apr 2021 1:34

Tot Ion: 83 Resp: 2358212

Ion Ratio Lower Upper

83 100

85 66.1 52.6 78.8



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1369

Delta R.T. 0.01 min

Lab File: VL036838.D

Acq: 21 Apr 2021 1:34

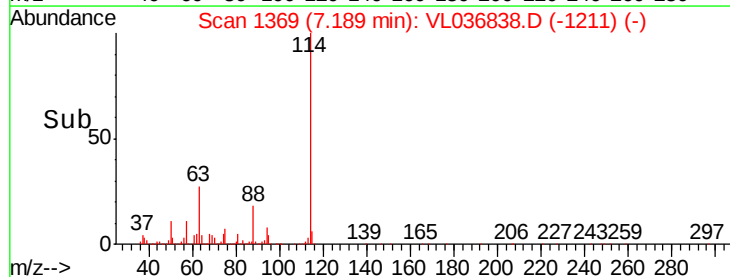
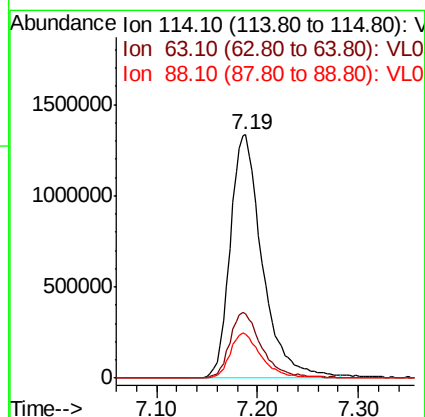
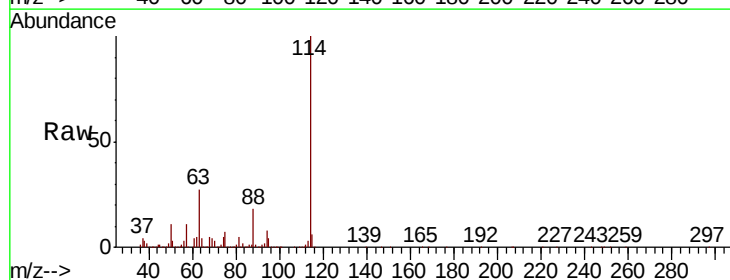
Tgt Ion: 114 Resp: 2963663

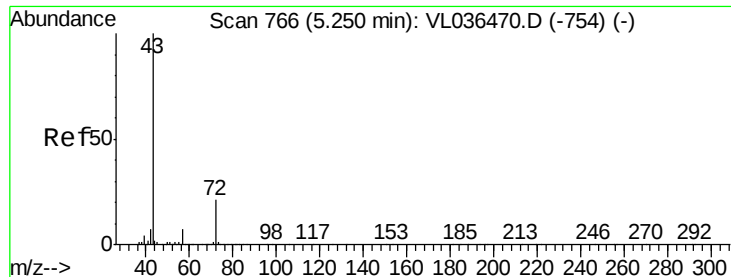
Ion Ratio Lower Upper

114 100

63 27.2 22.4 33.6

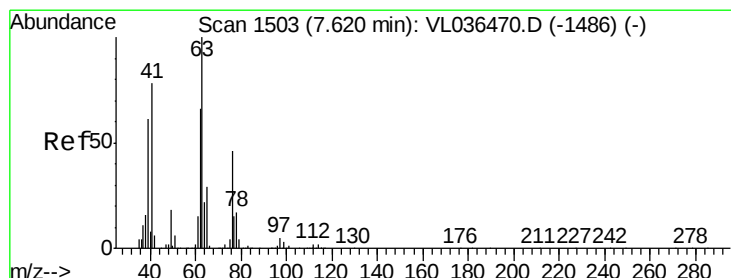
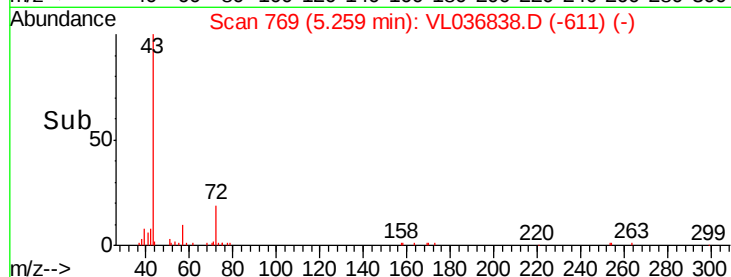
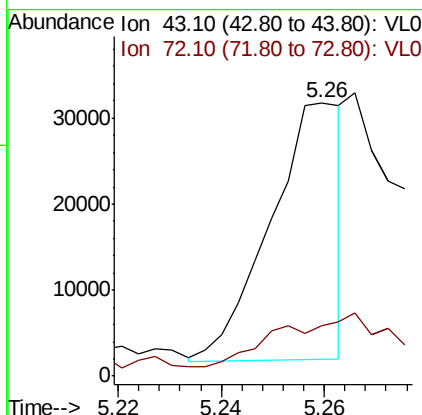
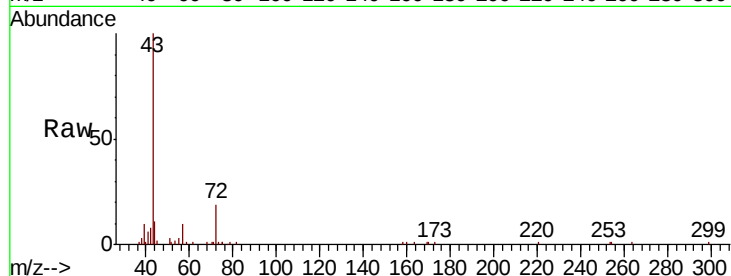
88 18.5 15.4 23.0





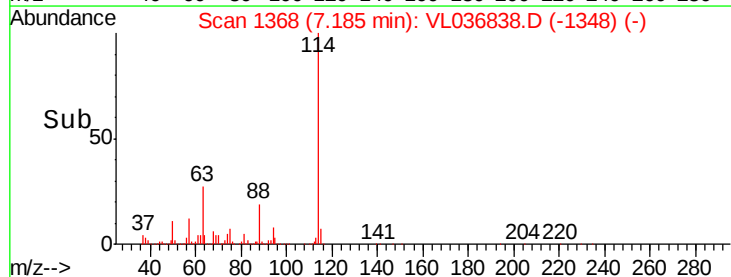
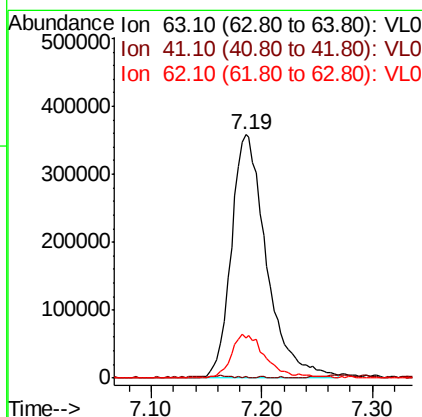
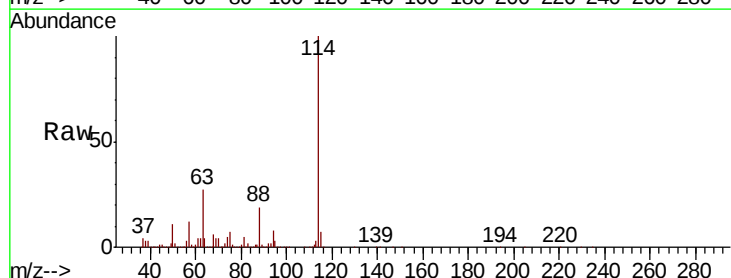
#34
 2-Butanone
 Concen: 0.199 ppbv
 RT: 5.26
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 21 Apr 2021 1:34

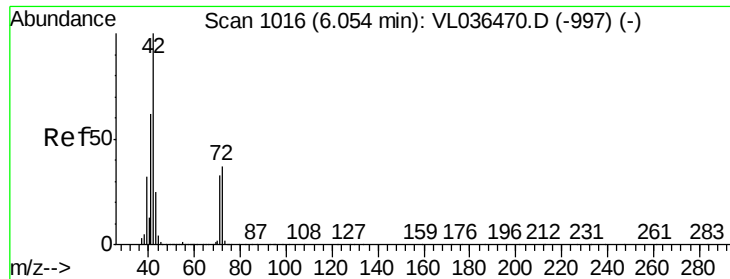
Tot Ion: 43 Resp: 28796
 Ion Ratio Lower Upper
 43 100
 72 0.0 17.0 25.6#



#39
 1,2-Dichloropropane
 Concen: 7.154 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. -0.43 min
 Lab File: VL036838.D
 Acq: 21 Apr 2021 1:34

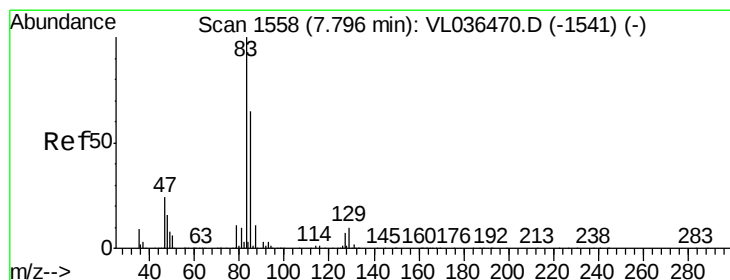
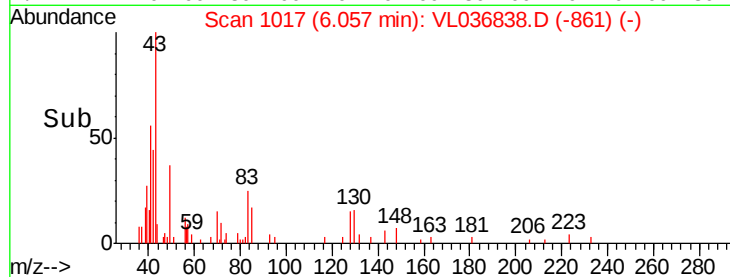
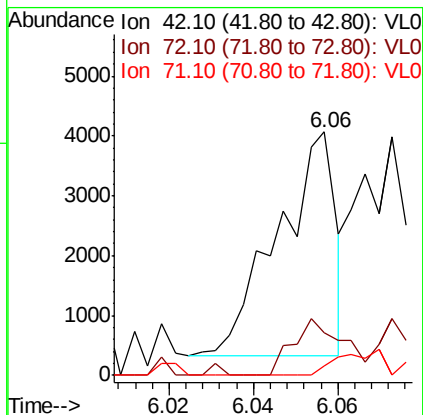
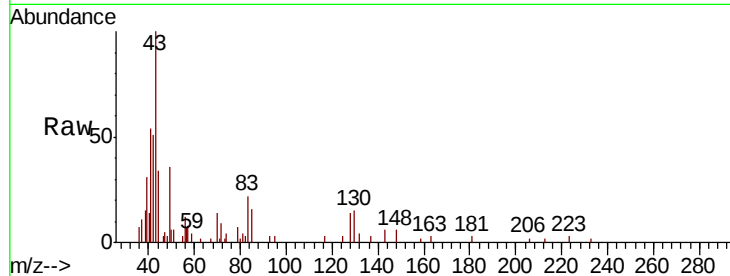
Tgt Ion: 63 Resp: 793232
 Ion Ratio Lower Upper
 63 100
 41 0.0 62.4 93.6#
 62 16.4 52.8 79.2#





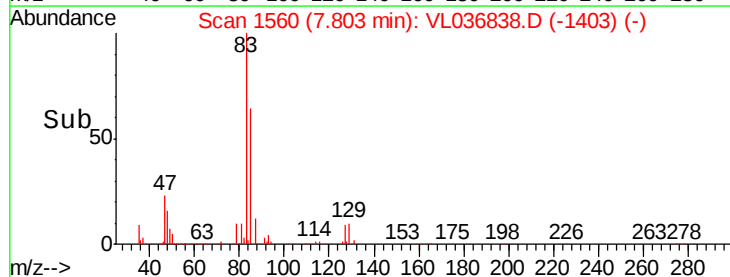
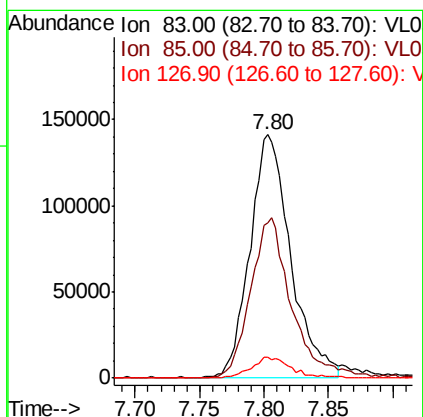
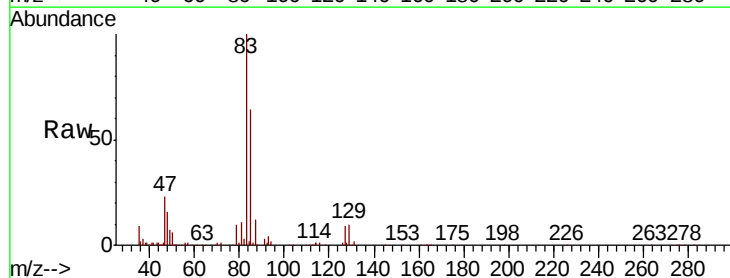
#41
Tetrahydrofuran
Concen: 0.053 ppbv
RT: 6.06 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 21 Apr 2021 1:34

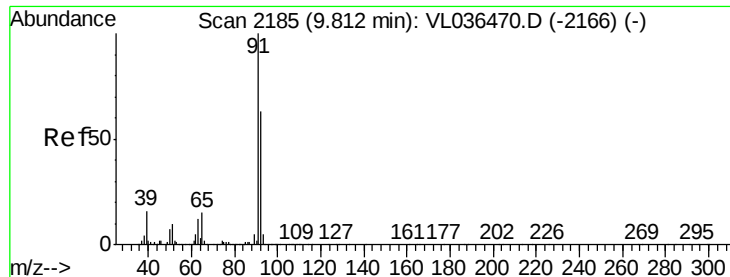
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	27.6	41.4#
71	0.0	27.0	40.4#



#42
Bromodichloromethane
Concen: 1.429 ppbv
RT: 7.80 min Scan# 1560
Delta R.T.: 0.01 min
Lab File: VL036838.D
Acq: 21 Apr 2021 1:34

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.8	51.8	77.6
127	8.7	5.8	8.8





#53

Toluene

Concen: 0.586 ppbv

RT: 9.83 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

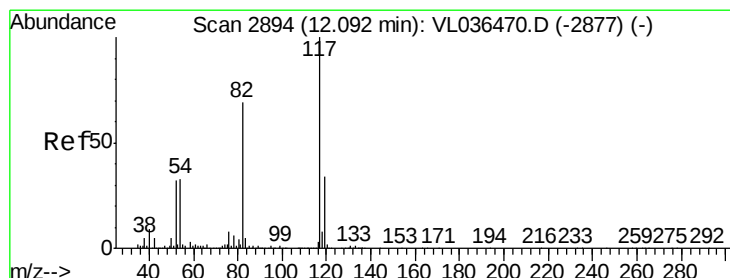
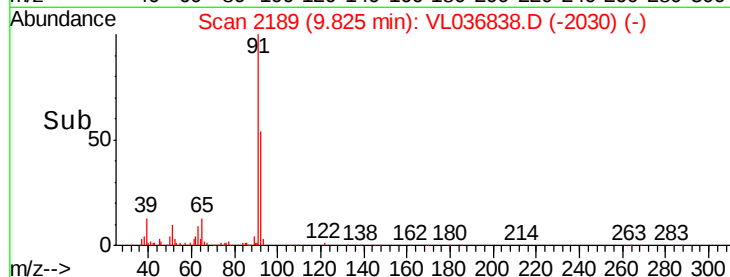
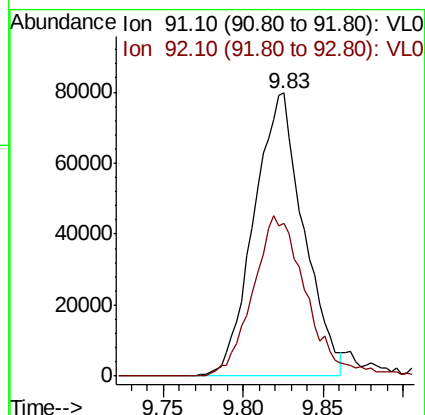
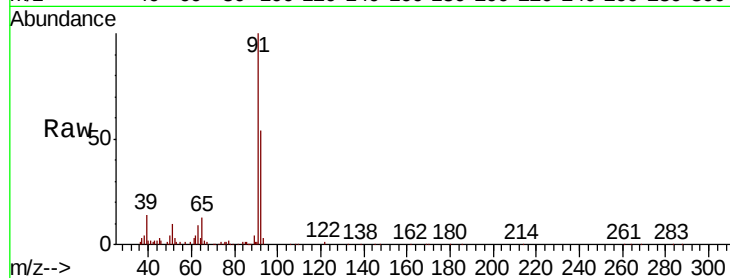
Acq: 21 Apr 2021 1:34

Tot Ion: 91 Resp: 170470

Ion Ratio Lower Upper

91 100

92 61.2 48.8 73.2



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2897

Delta R.T. 0.01 min

Lab File: VL036838.D

Acq: 21 Apr 2021 1:34

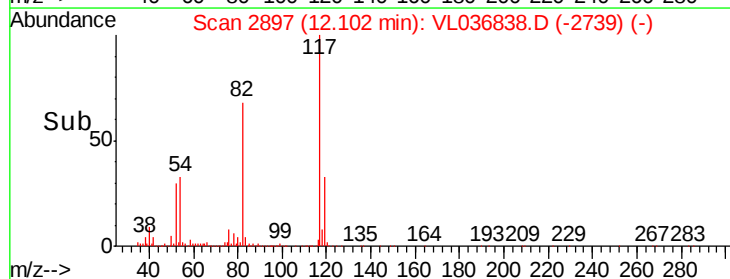
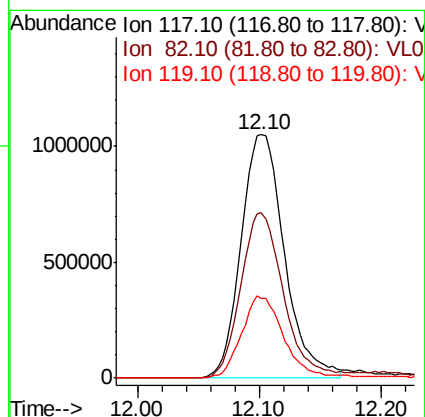
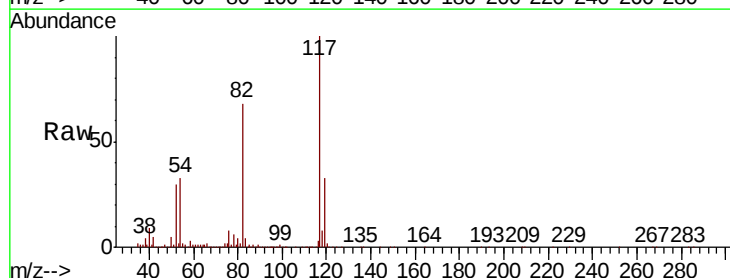
Tgt Ion: 117 Resp: 2589951

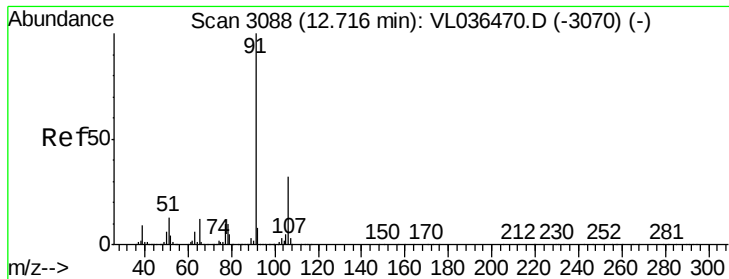
Ion Ratio Lower Upper

117 100

82 71.1 57.4 86.0

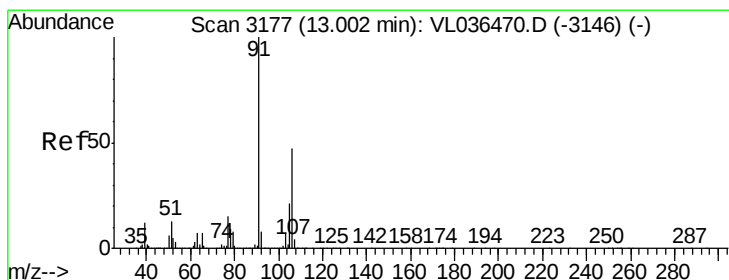
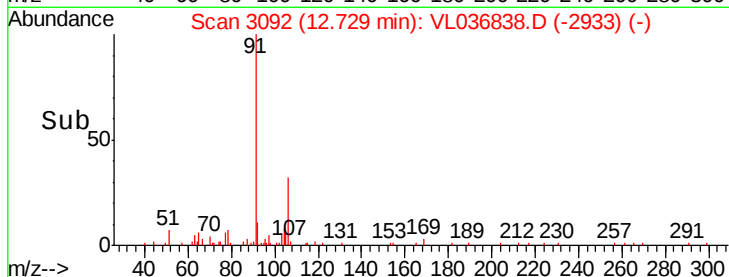
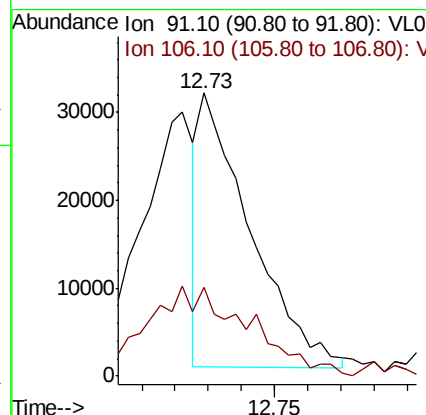
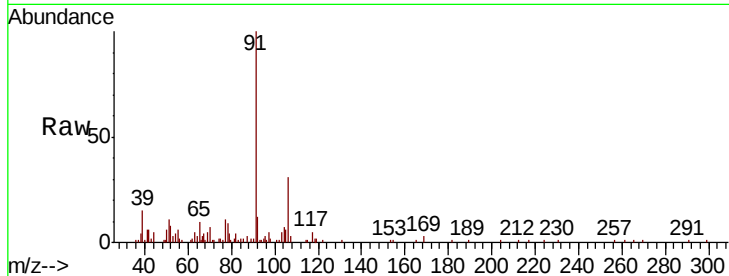
119 34.0 47.4 71.0#





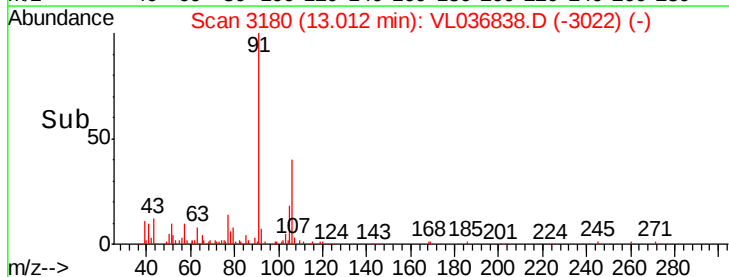
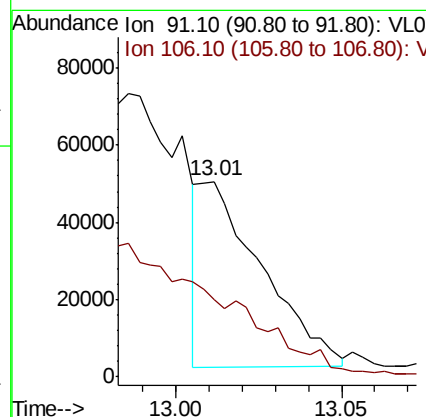
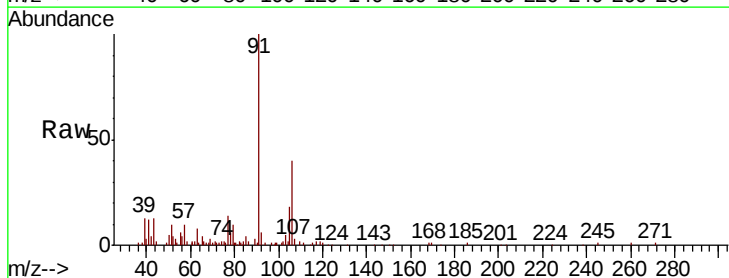
#58
Ethyl Benzene
Concen: 0.088 ppbv
RT: 12.73 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 21 Apr 2021 1:34

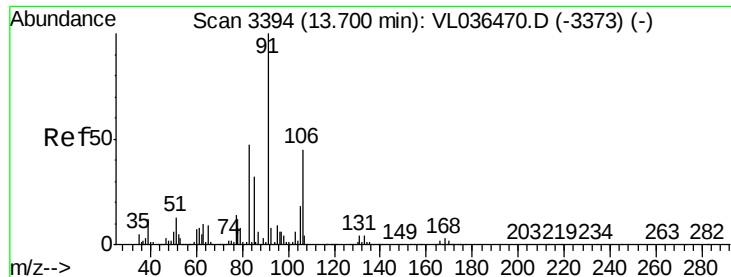
Tot Ion: 91 Resp: 33249
Ion Ratio Lower Upper
91 100
106 32.0 25.3 37.9



#59
m/p-Xylene
Concen: 0.191 ppbv
RT: 13.01 min Scan# 3180
Delta R.T. 0.01 min
Lab File: VL036838.D
Acq: 21 Apr 2021 1:34

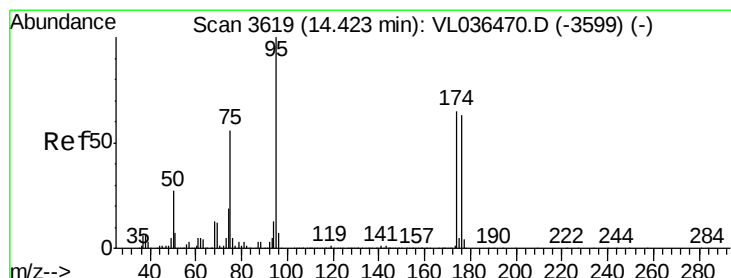
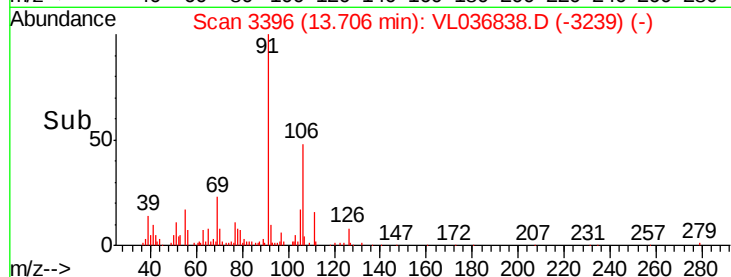
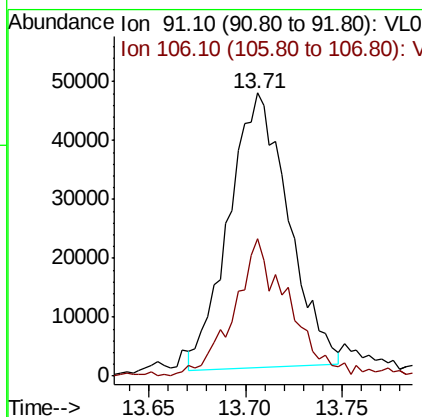
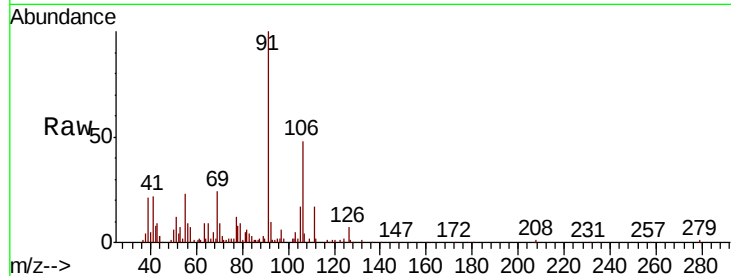
Tgt Ion: 91 Resp: 62685
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#





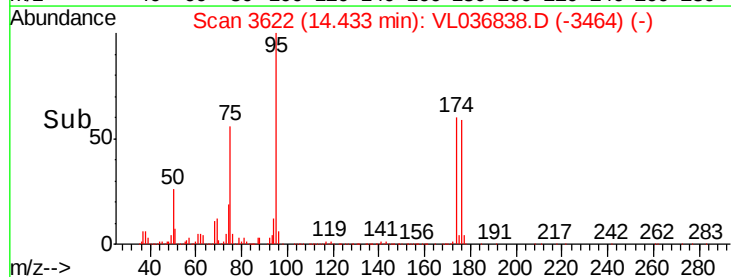
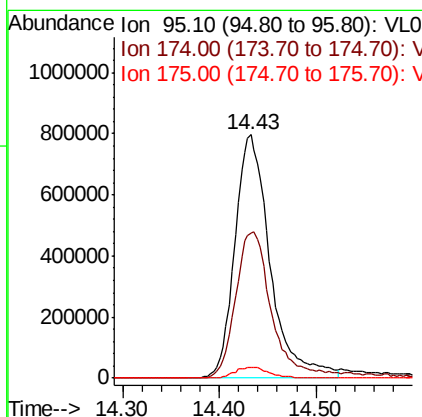
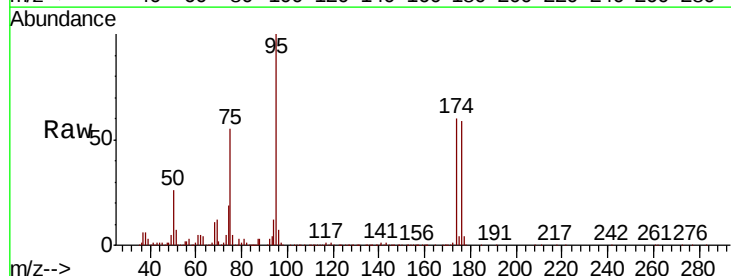
#60
o-Xylene
Concen: 0.315 ppbv
RT: 13.71 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 21 Apr 2021 1:34

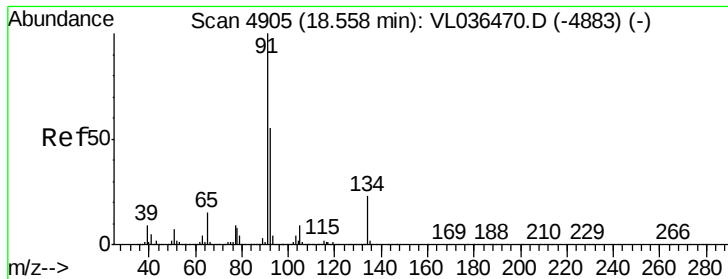
Tot Ion: 91 Resp: 100228
Ion Ratio Lower Upper
91 100
106 48.0 22.3 66.9



#68
1-Bromo-4-Fluorobenzene
Concen: 9.788 ppbv
RT: 14.43 min Scan# 3622
Delta R.T. 0.01 min
Lab File: VL036838.D
Acq: 21 Apr 2021 1:34

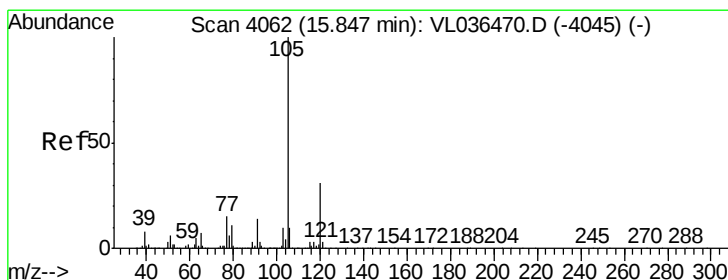
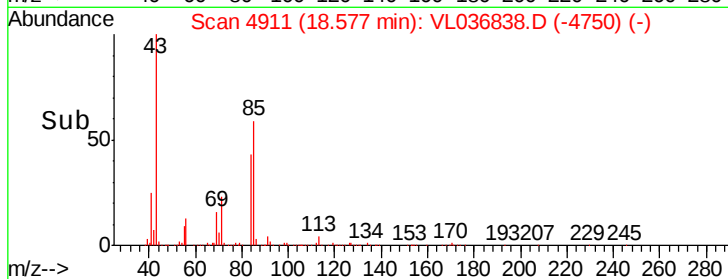
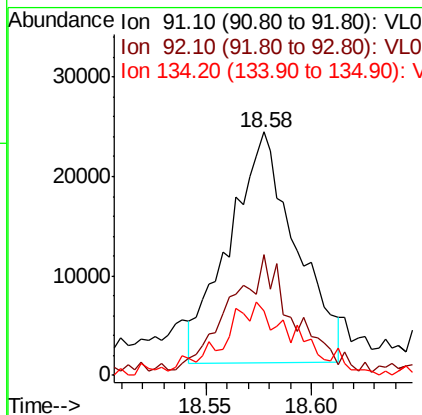
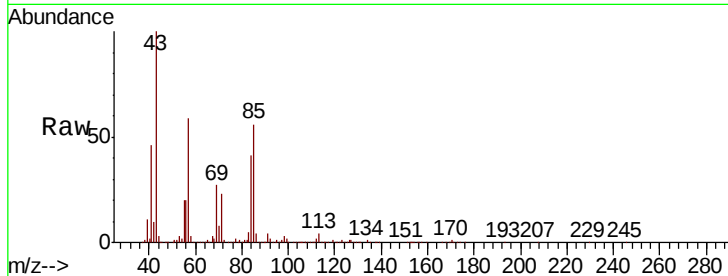
Tgt Ion: 95 Resp: 2020366
Ion Ratio Lower Upper
95 100
174 64.8 51.0 76.6
175 4.7 3.9 5.9





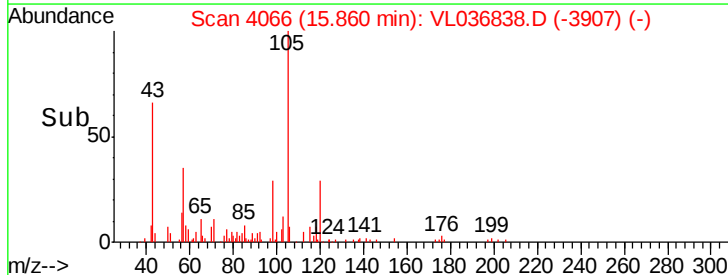
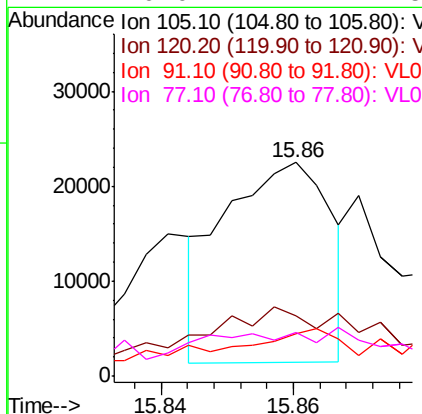
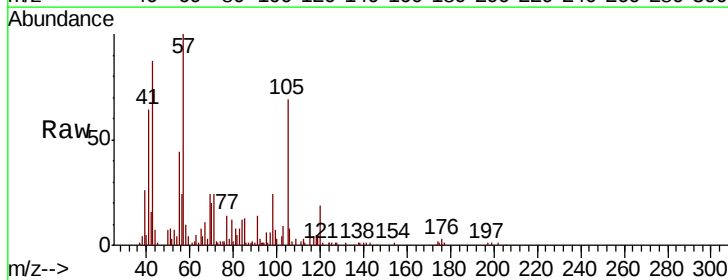
#70
n-Butylbenzene
Concen: 0.120 ppbv
RT: 18.58 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 21 Apr 2021 1:34

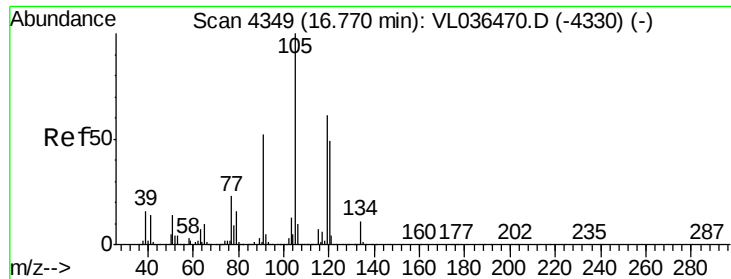
Tot Ion	Ratio	Lower	Upper
91	100		
92	53.4	43.8	65.8
134	37.3	18.0	27.0



#72
4-Ethyltoluene
Concen: 0.068 ppbv
RT: 15.86 min Scan# 4066
Delta R.T.: 0.01 min
Lab File: VL036838.D
Acq: 21 Apr 2021 1:34

Tgt Ion	Ratio	Lower	Upper
105	100		
120	71.1	24.0	36.0
91	0.0	11.0	16.4
77	0.0	11.7	17.5





#74

1,2,4-Trimethylbenzene

Concen: 0.430 ppbv

RT: 16.78

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 21 Apr 2021 1:34

Tot Ion:	105	Resp:	149530
Ion Ratio	Lower	Upper	
105	100		
120	39.7	39.2	58.8
91	11.5	42.6	64.0#
77	11.0	18.6	28.0#

