

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL042021\
 Data File : VL036822.D
 Acq On : 20 Apr 2021 15:20
 Operator : SY/AP
 Sample : M2096-04 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: Apr 21 06:36:46 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	5.67	49	1292424	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	3108820	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.10	117	2639405	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.43	95	1969410	9.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

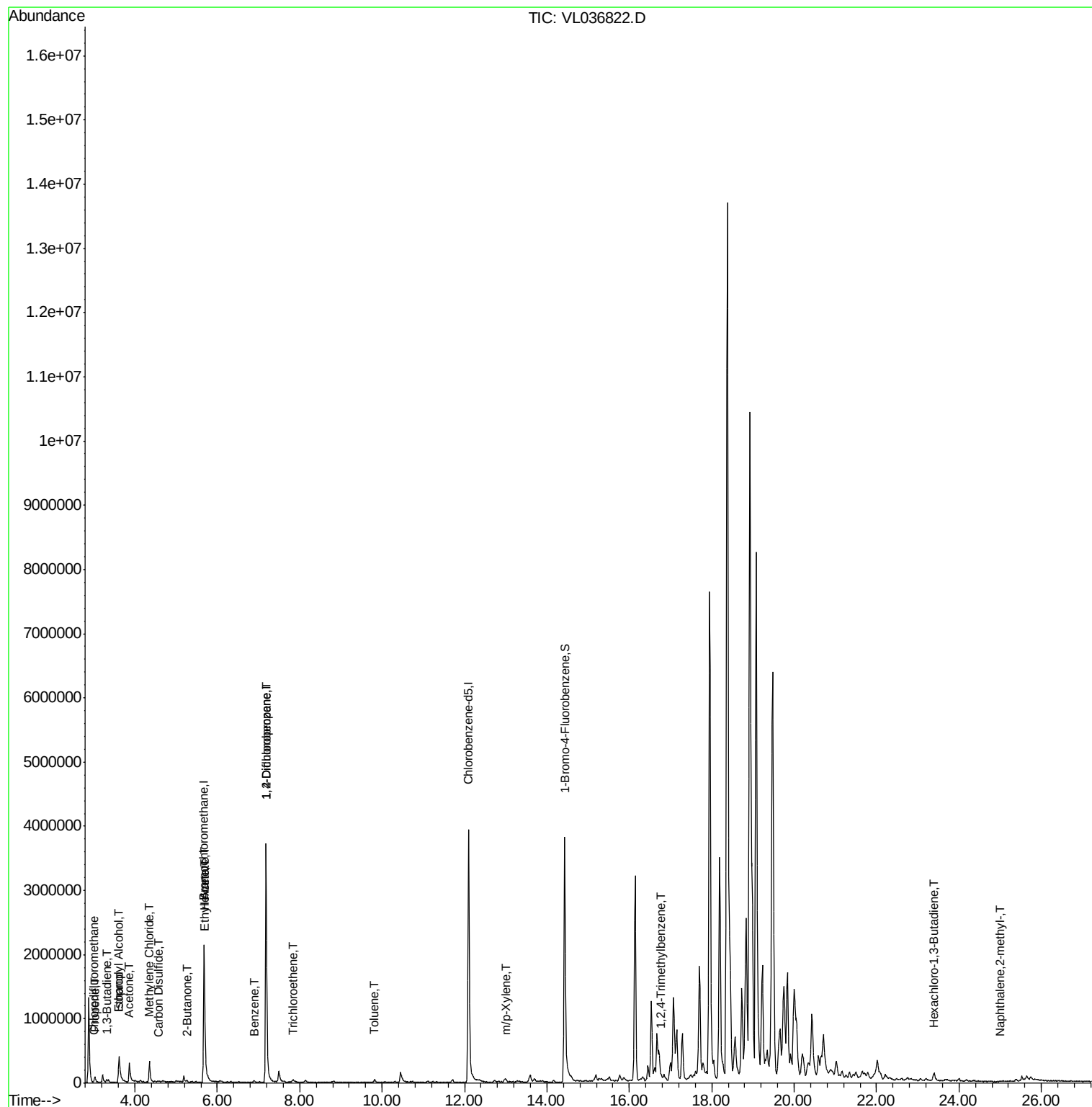
Target Compounds					Ovalue
3) Chlorodifluoromethane	3.00	51	11029	0.046	ppbv 96
9) Propene	3.02	41	32873	0.427	ppbv 92
13) Ethanol	3.61	45	698392	76.185	ppbv 91
15) Acetone	3.86	43	396825	3.120	ppbv # 86
16) 1,3-Butadiene	3.32	39	5830	0.066	ppbv # 82
19) Isopropyl Alcohol	3.61	45	698392	9.981	ppbv # 89
20) Methylene Chloride	4.35	84	110162	1.850	ppbv 88
25) Ethyl Acetate	5.70	43	81250	0.269	ppbv # 81
26) Hexane	5.69	57	58922	0.420	ppbv # 1
27) Carbon Disulfide	4.56	76	11652	0.084	ppbv # 75
34) 2-Butanone	5.25	43	9944	0.066	ppbv # 1
36) Benzene	6.90	78	11465	0.040	ppbv # 85
38) Trichloroethene	7.85	130	5617	0.050	ppbv # 62
39) 1,2-Dichloropropane	7.18	63	820370	7.054	ppbv # 24
53) Toluene	9.82	91	19339	0.063	ppbv # 20
59) m/p-Xylene	13.01	91	15344	0.046	ppbv # 32
74) 1,2,4-Trimethylbenzene	16.77	105	23943	0.068	ppbv # 65
78) Hexachloro-1,3-Butadiene	23.39	225	5733	0.034	ppbv # 18
80) Naphthalene,2-methyl-	24.99	142	6163	0.151	ppbv # 87

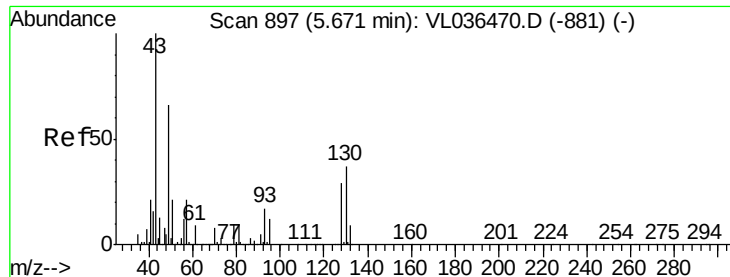
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL042021\
Data File : VL036822.D
Acq On : 20 Apr 2021 15:20
Operator : SY/AP
Sample : M2096-04 10X
Misc : 400mL/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :

Quant Time: Apr 21 06:36:46 2021
Quant Method : Z:\V0ASRV\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





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 20 Apr 2021 15:20

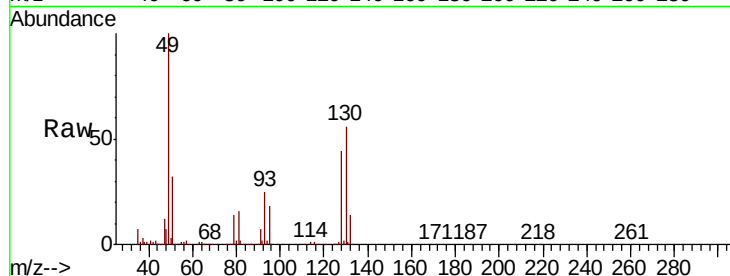
Tot Ion: 49 Resp: 1292424

Ion Ratio Lower Upper

49 100

128 46.1 23.5 70.6

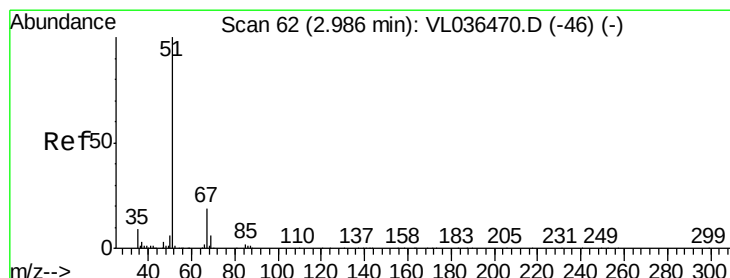
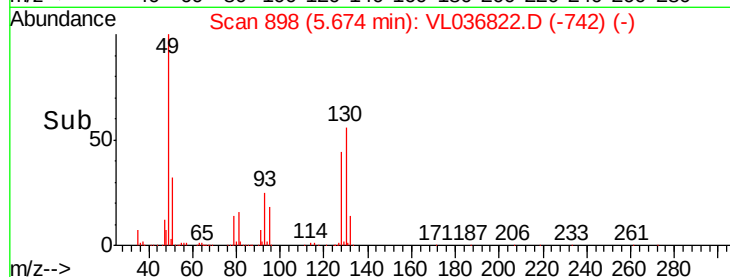
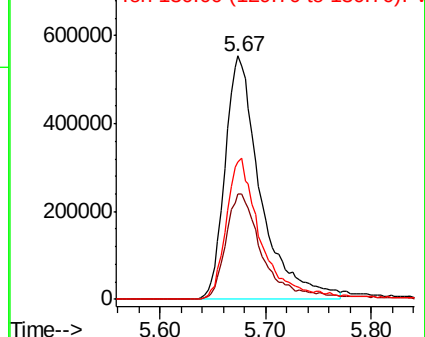
130 58.1 29.1 87.4



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



#3

Chlorodifluoromethane

Concen: 0.046 ppbv

RT: 3.00 min Scan# 66

Delta R.T. 0.01 min

Lab File: VL036822.D

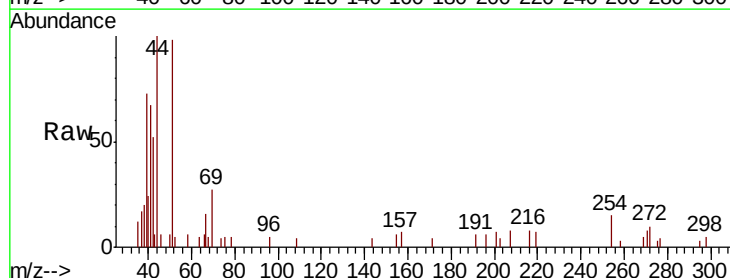
Acq: 20 Apr 2021 15:20

Tgt Ion: 51 Resp: 11029

Ion Ratio Lower Upper

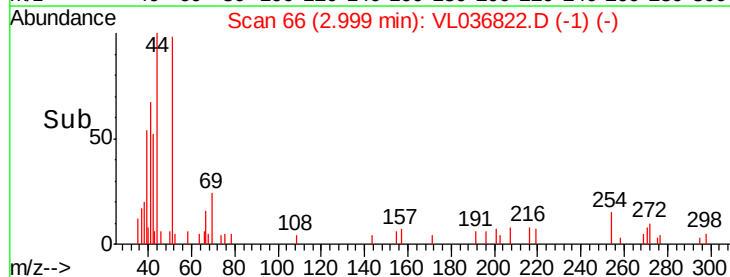
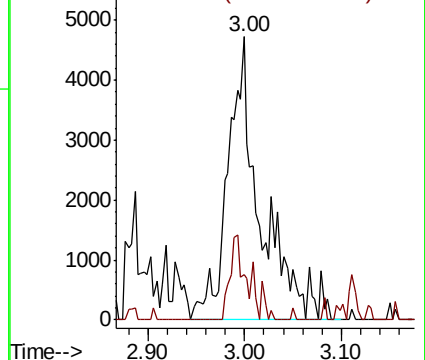
51 100

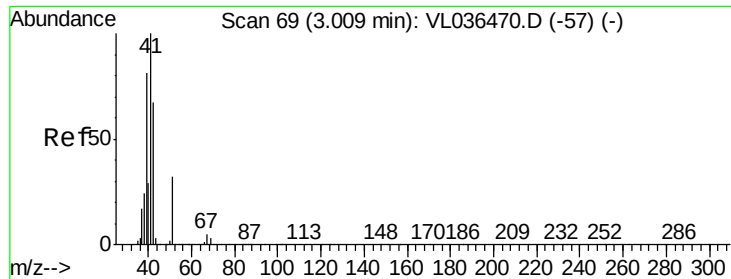
67 16.5 14.7 22.1



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0





#9

Propene

Concen: 0.427 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

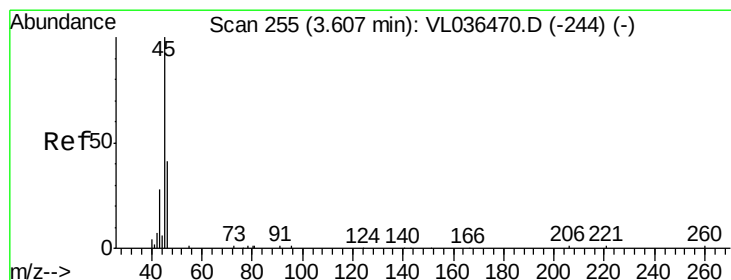
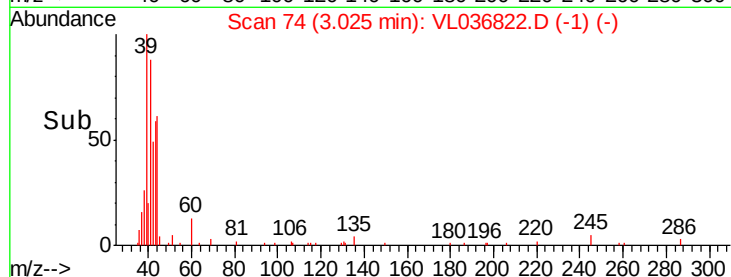
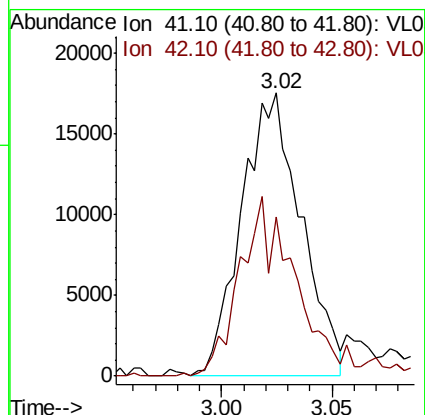
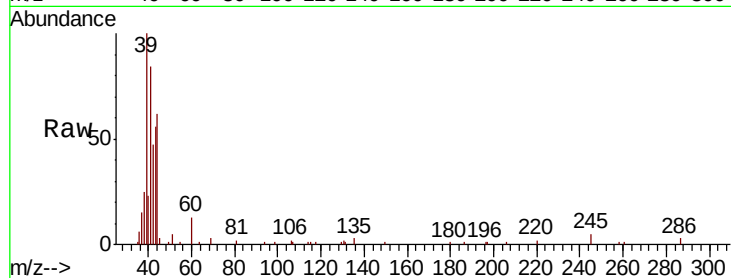
Acq: 20 Apr 2021 15:20

Tot Ion: 41 Resp: 32873

Ion Ratio Lower Upper

41 100

42 64.7 57.0 85.4



#13

Ethanol

Concen: 76.185 ppbv

RT: 3.61 min Scan# 257

Delta R.T. 0.01 min

Lab File: VL036822.D

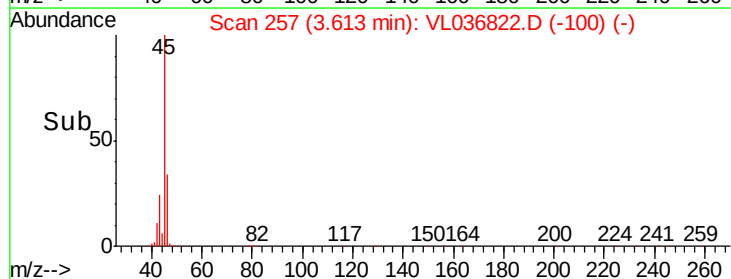
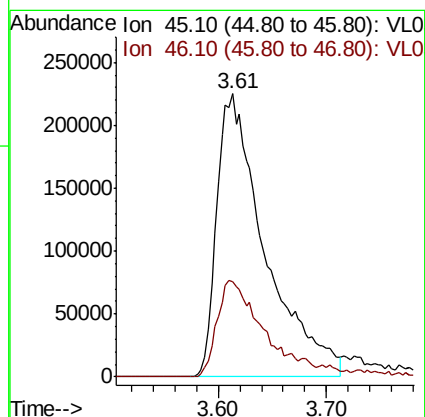
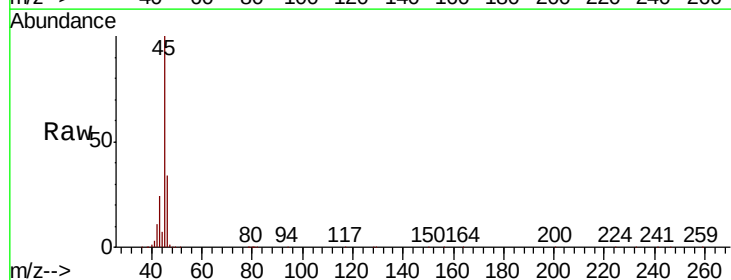
Acq: 20 Apr 2021 15:20

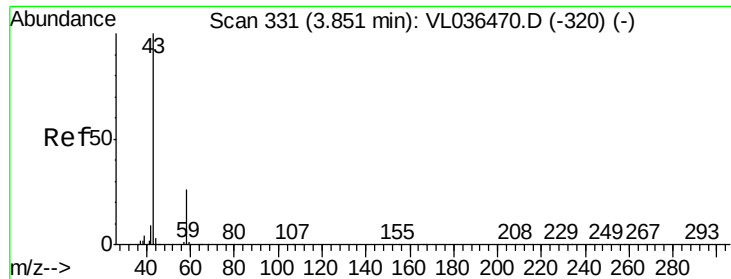
Tgt Ion: 45 Resp: 698392

Ion Ratio Lower Upper

45 100

46 35.9 16.6 66.2





#15

Acetone

Concen: 3.120 ppbv

RT: 3.86 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

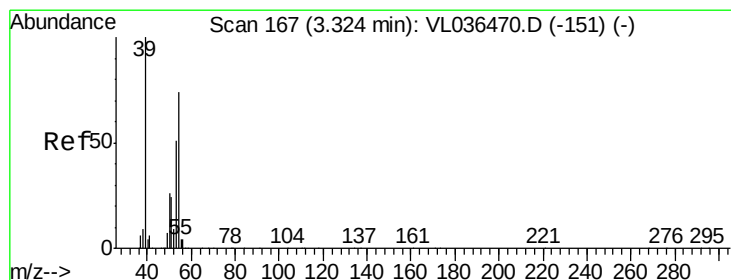
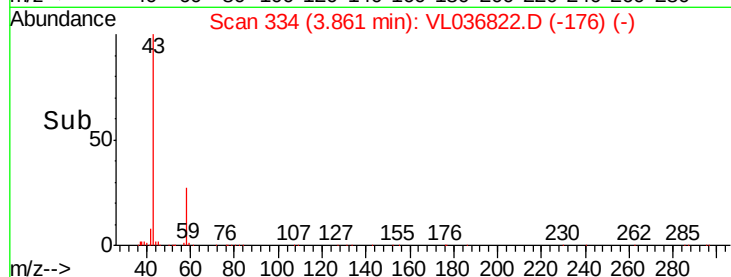
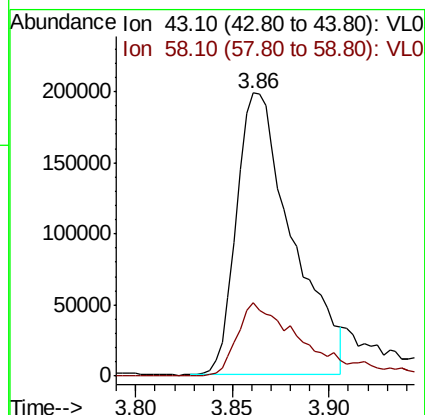
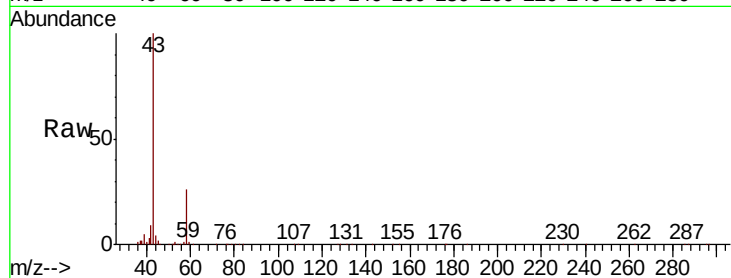
Acq: 20 Apr 2021 15:20

Tot Ion: 43 Resp: 396825

Ion Ratio Lower Upper

43 100

58 33.7 21.2 31.8#



#16

1,3-Butadiene

Concen: 0.066 ppbv

RT: 3.32 min Scan# 167

Delta R.T. -0.00 min

Lab File: VL036822.D

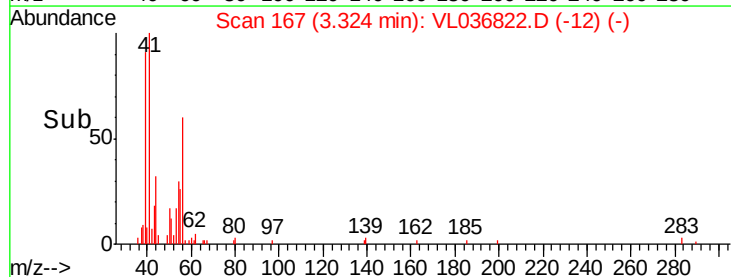
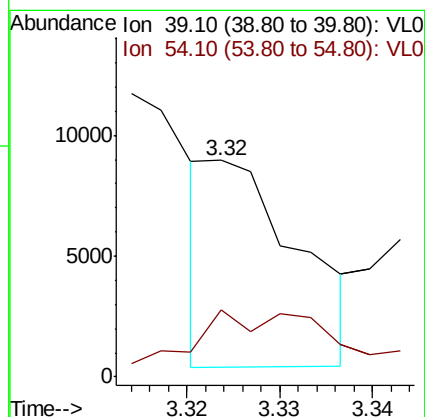
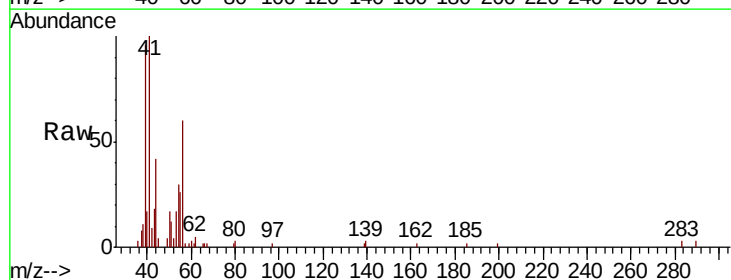
Acq: 20 Apr 2021 15:20

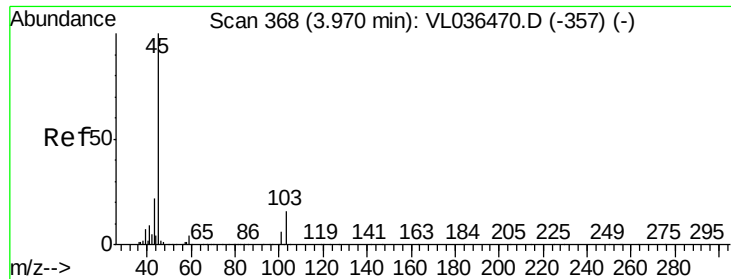
Tgt Ion: 39 Resp: 5830

Ion Ratio Lower Upper

39 100

54 89.0 58.8 88.2#





#19

Isopropyl Alcohol

Concen: 9.981 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

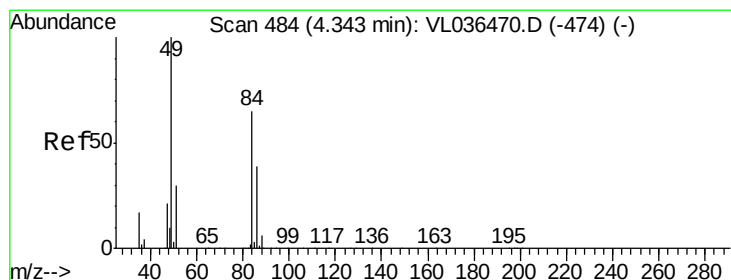
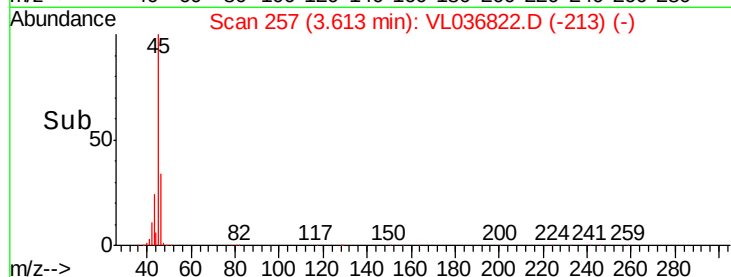
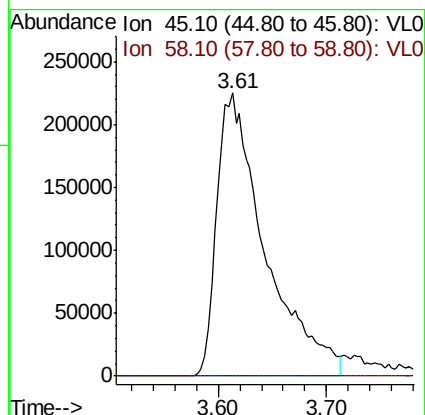
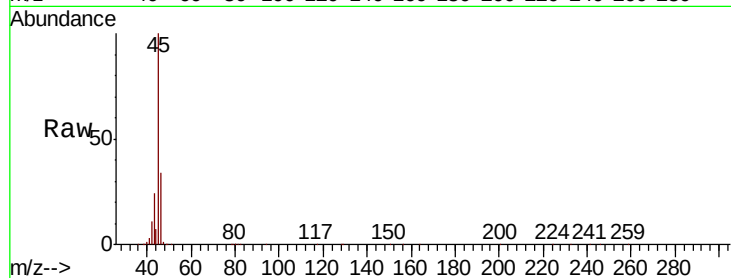
Acq: 20 Apr 2021 15:20

Tot Ion: 45 Resp: 698392

Ion Ratio Lower Upper

45 100

58 0.0 2.9 4.3#



#20

Methylene Chloride

Concen: 1.850 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.01 min

Lab File: VL036822.D

Acq: 20 Apr 2021 15:20

Tgt Ion: 84 Resp: 110162

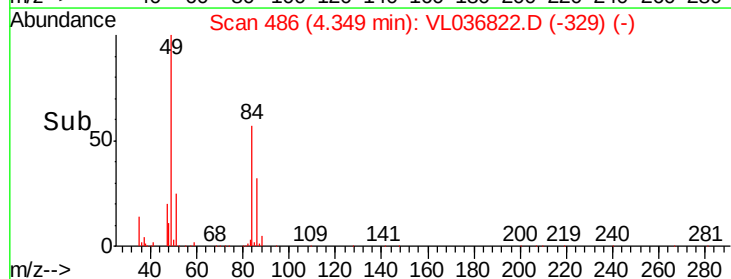
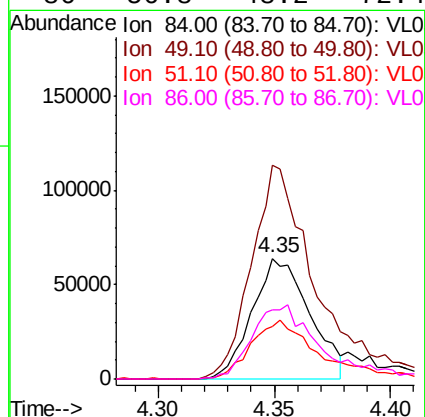
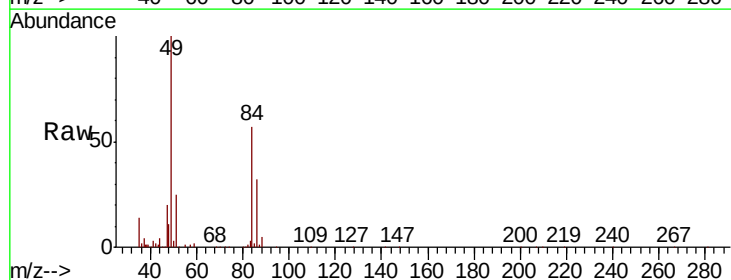
Ion Ratio Lower Upper

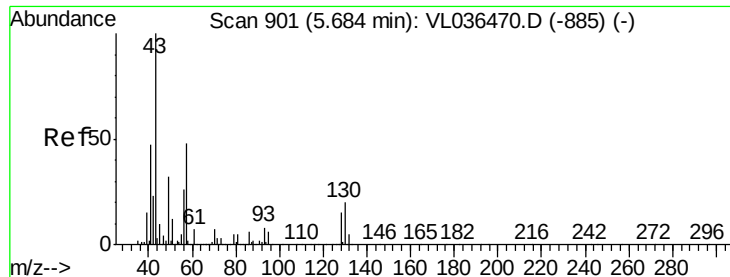
84 100

49 176.5 122.9 184.3

51 43.9 36.9 55.3

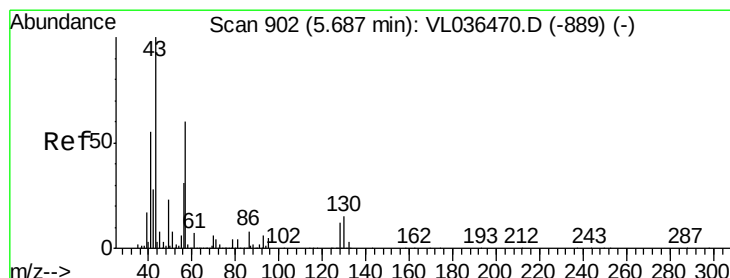
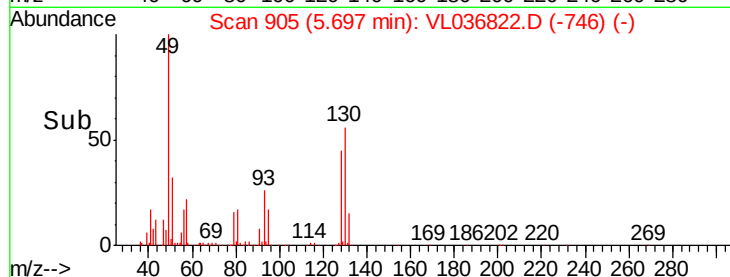
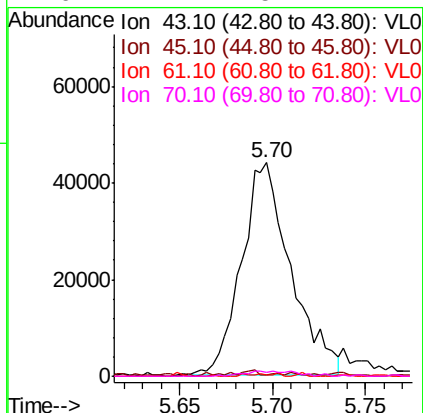
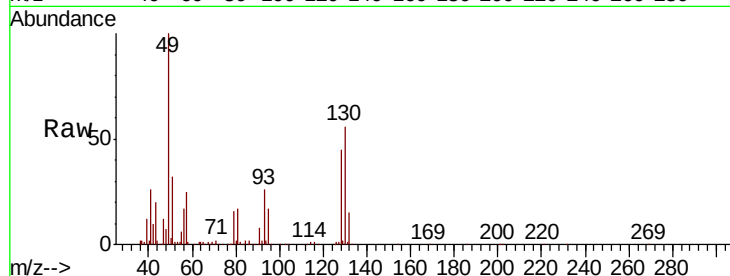
86 56.8 48.2 72.4





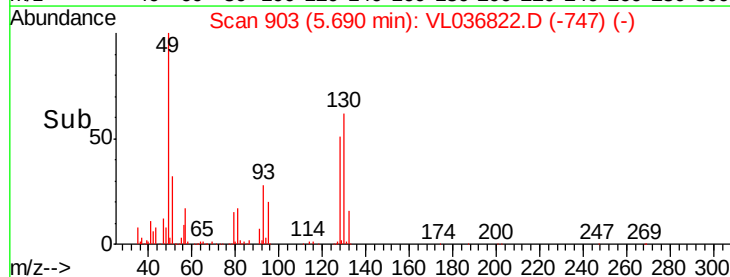
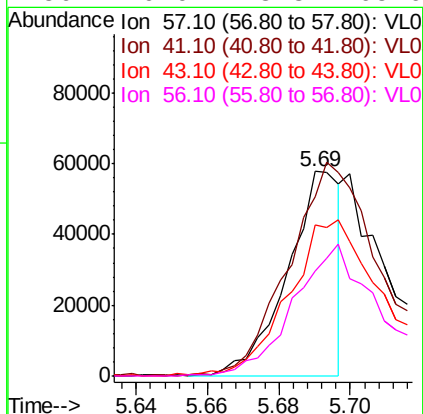
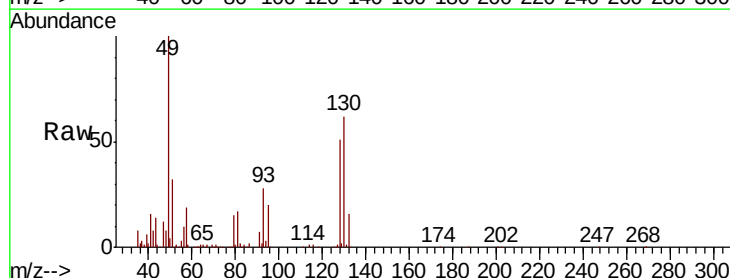
#25
Ethyl Acetate
Concen: 0.269 ppbv
RT: 5.70 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 20 Apr 2021 15:20

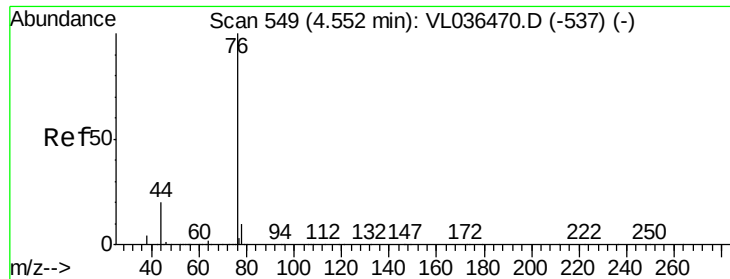
Tot Ion:	43	Resp:	81250
Ion	Ratio	Lower	Upper
43	100		
45	2.6	7.9	11.9#
61	0.7	7.4	11.2#
70	2.7	5.1	7.7#



#26
Hexane
Concen: 0.420 ppbv
RT: 5.69 min Scan# 903
Delta R.T.: 0.00 min
Lab File: VL036822.D
Acq: 20 Apr 2021 15:20

Tgt Ion:	57	Resp:	58922
Ion	Ratio	Lower	Upper
57	100		
41	0.0	77.2	115.8#
43	0.0	173.8	260.6#
56	0.0	43.8	65.6#





#27

Carbon Disulfide

Concen: 0.084 ppbv

RT: 4.56 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 15:20

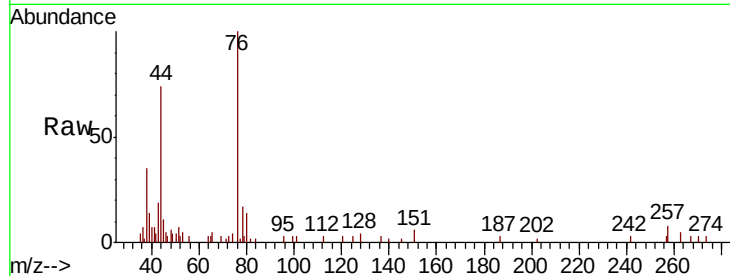
Tot Ion: 76 Resp: 11652

Ion Ratio Lower Upper

76 100

44 35.7 17.5 26.3#

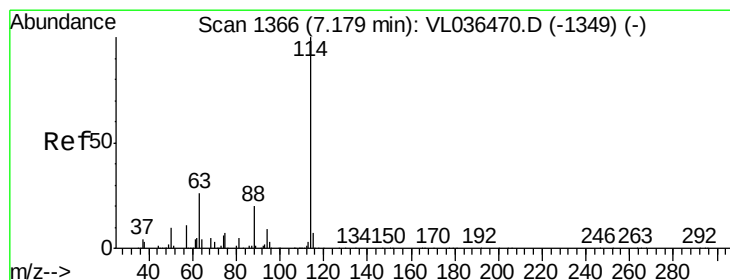
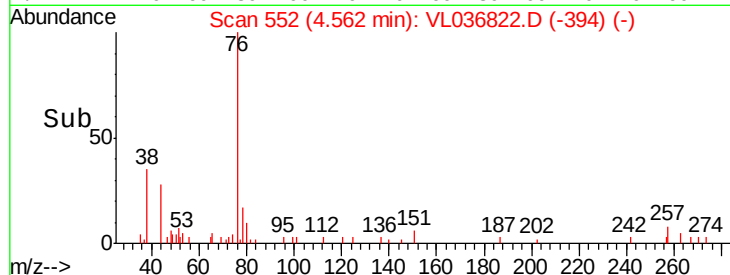
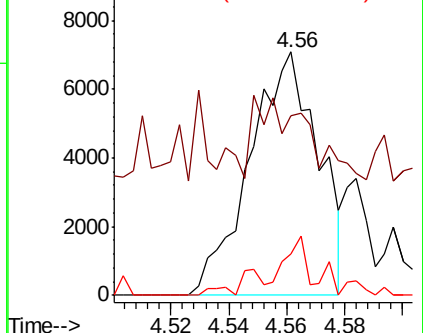
78 16.9 8.6 13.0#



Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.19 min Scan# 1368

Delta R.T. 0.01 min

Lab File: VL036822.D

Acq: 20 Apr 2021 15:20

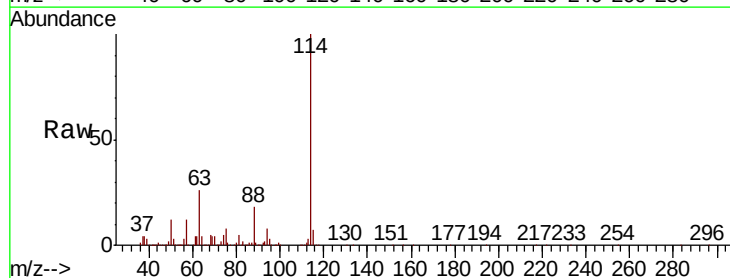
Tgt Ion: 114 Resp: 3108820

Ion Ratio Lower Upper

114 100

63 26.9 22.4 33.6

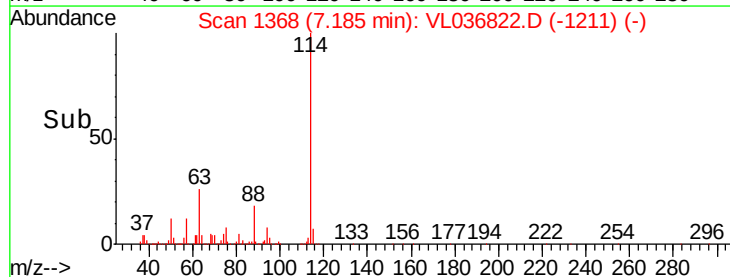
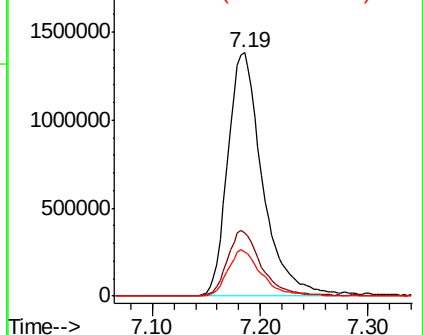
88 18.6 15.4 23.0

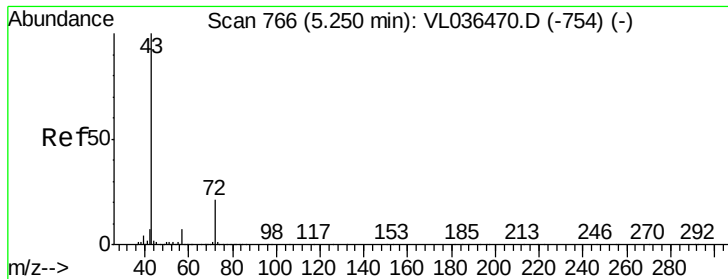


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

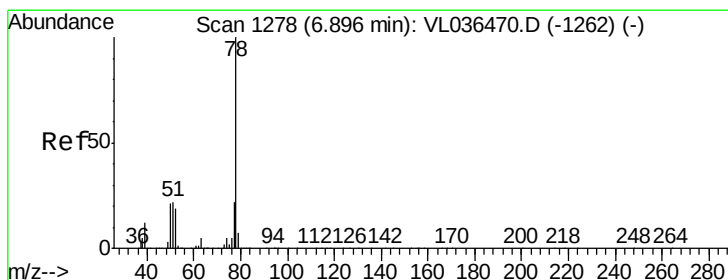
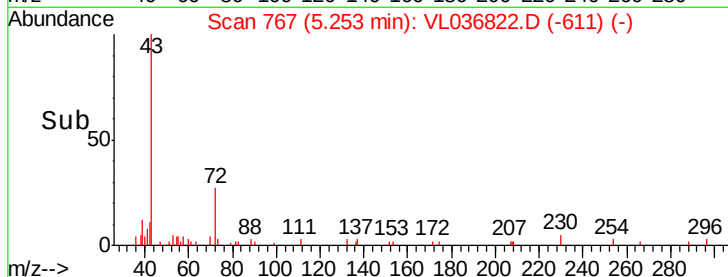
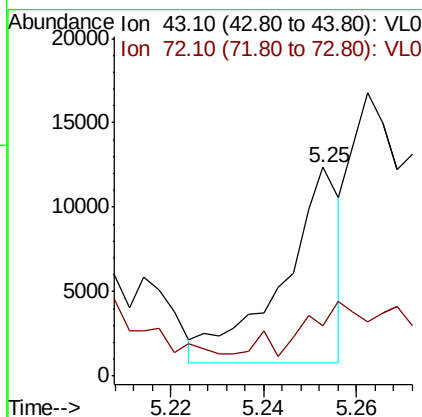
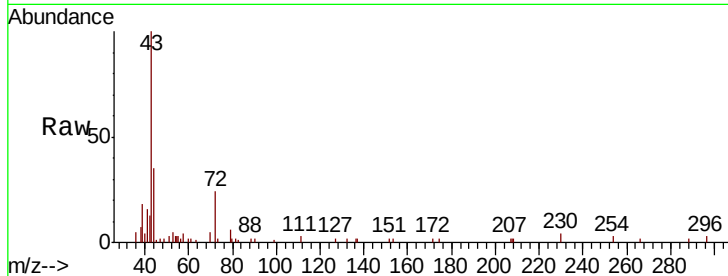
Ion 88.10 (87.80 to 88.80): VL0





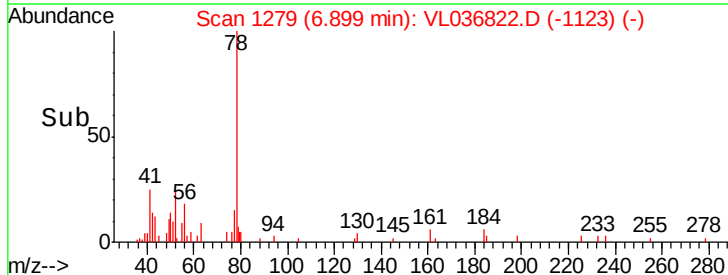
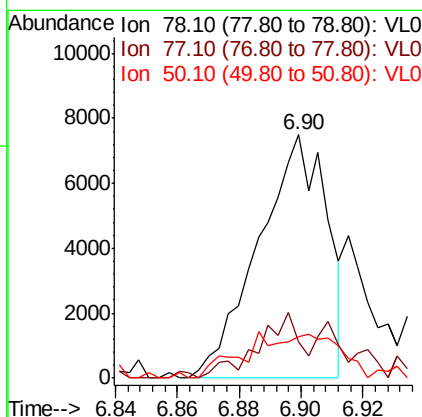
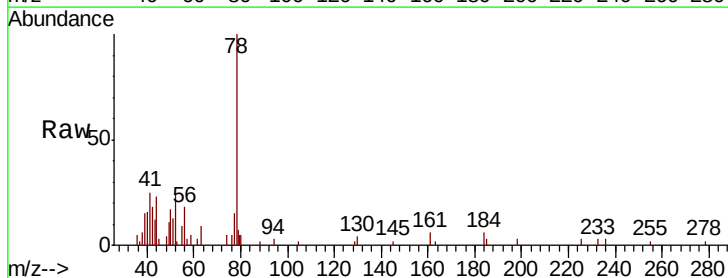
#34
 2-Butanone
 Concen: 0.066 ppbv
 RT: 5.25
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 20 Apr 2021 15:20

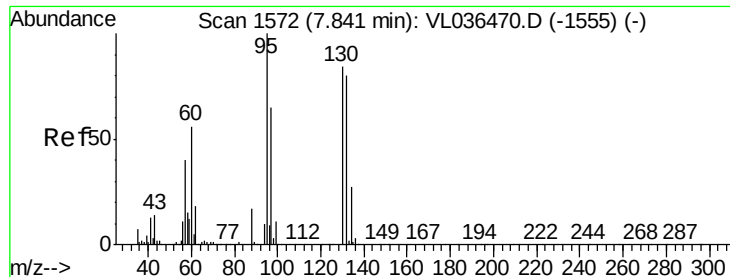
Tot Ion: 43 Resp: 9944
 Ion Ratio Lower Upper
 43 100
 72 117.9 17.0 25.6#



#36
 Benzene
 Concen: 0.040 ppbv
 RT: 6.90 min Scan# 1279
 Delta R.T.: 0.00 min
 Lab File: VL036822.D
 Acq: 20 Apr 2021 15:20

Tgt Ion: 78 Resp: 11465
 Ion Ratio Lower Upper
 78 100
 77 12.3 18.0 27.0#
 50 16.9 16.5 24.7





#38

Trichloroethene

Concen: 0.050 ppbv

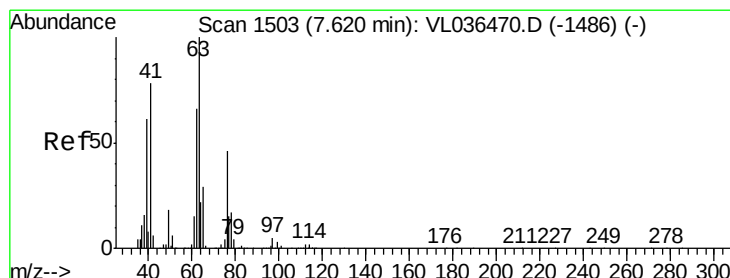
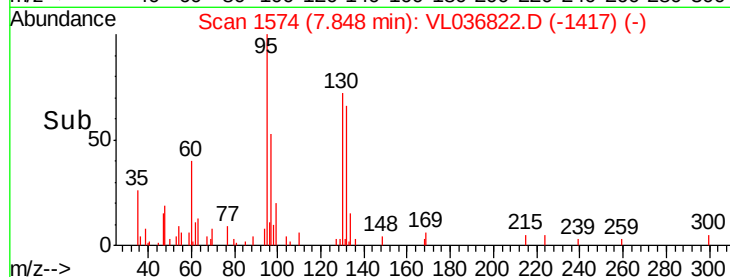
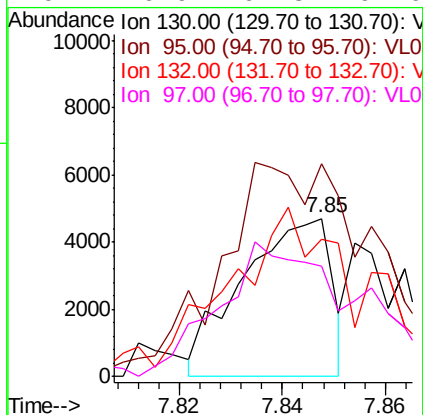
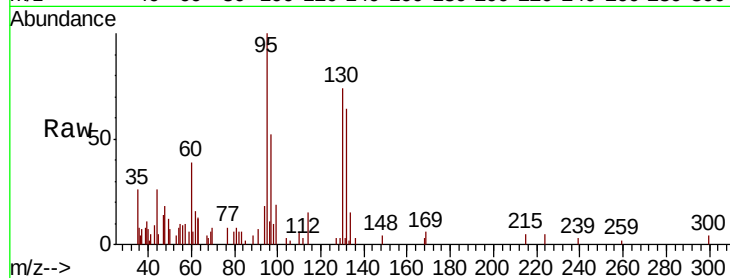
RT: 7.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 15:20

Tot Ion:	130	Resp:	5617
Ion	Ratio	Lower	Upper
130	100		
95	90.1	95.7	143.5#
132	46.8	76.2	114.4#
97	40.9	61.8	92.6#



#39

1,2-Dichloropropane

Concen: 7.054 ppbv

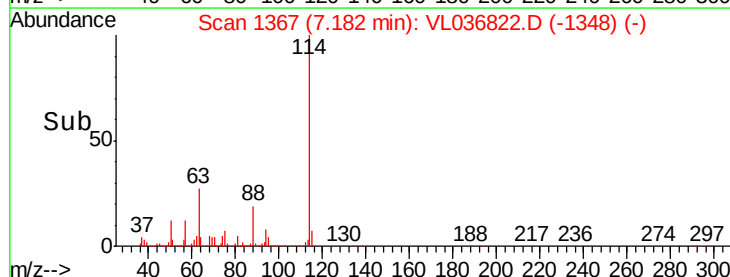
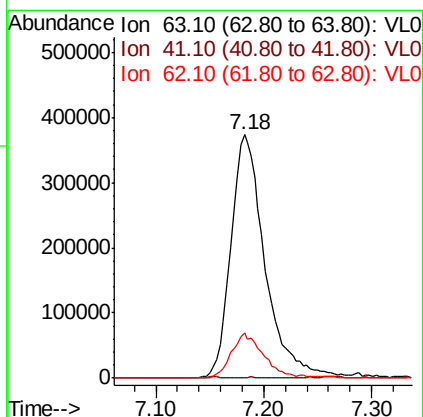
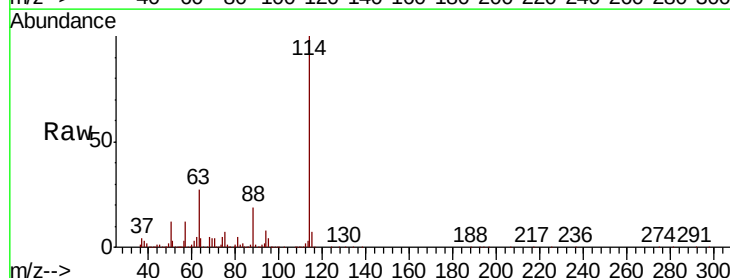
RT: 7.18 min Scan# 1367

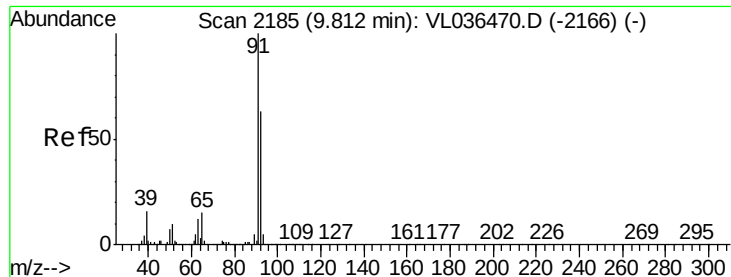
Delta R.T. -0.44 min

Lab File: VL036822.D

Acq: 20 Apr 2021 15:20

Tgt Ion:	63	Resp:	820370
Ion	Ratio	Lower	Upper
63	100		
41	0.0	62.4	93.6#
62	18.4	52.8	79.2#





#53

Toluene

Concen: 0.063 ppbv

RT: 9.82 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

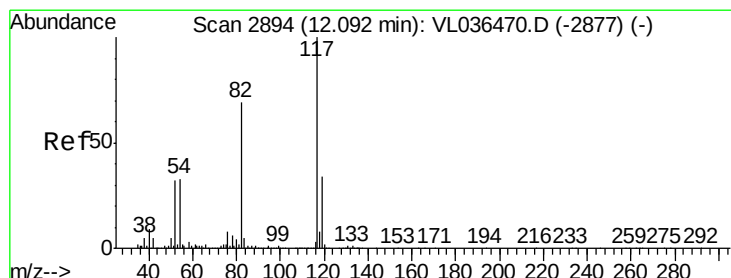
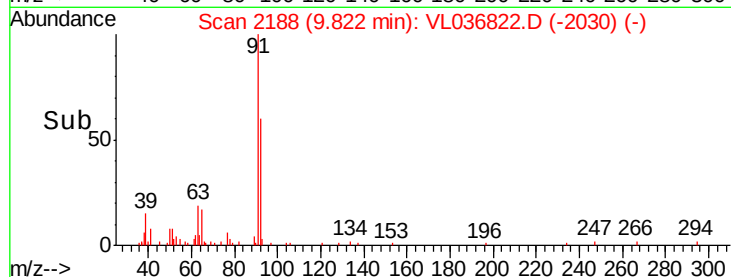
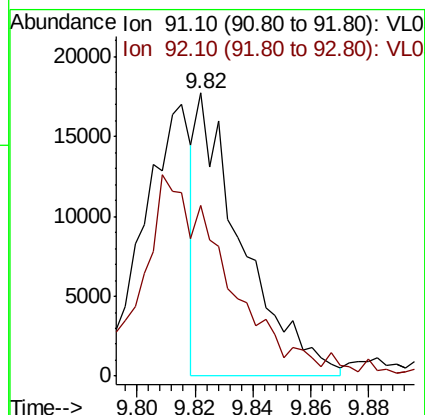
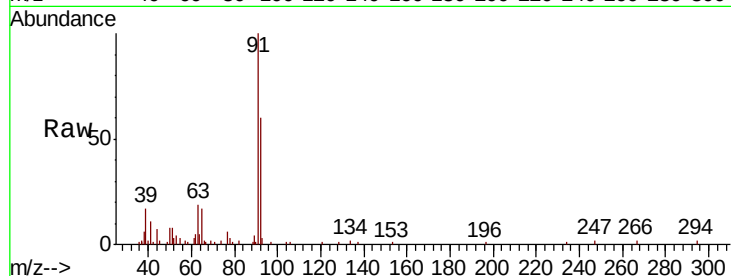
Acq: 20 Apr 2021 15:20

Tot Ion: 91 Resp: 19339

Ion Ratio Lower Upper

91 100

92 0.0 48.8 73.2#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.10 min Scan# 2896

Delta R.T. 0.01 min

Lab File: VL036822.D

Acq: 20 Apr 2021 15:20

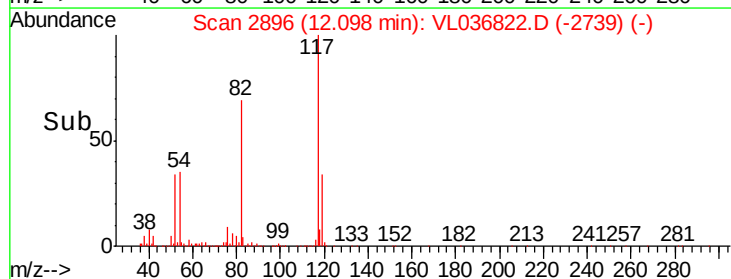
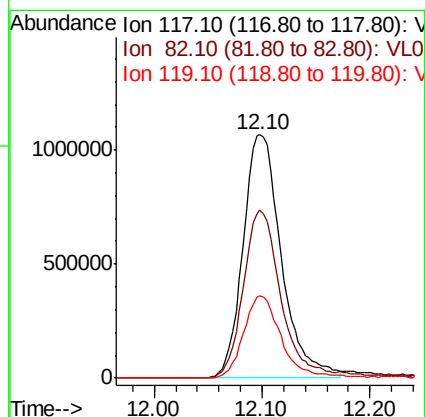
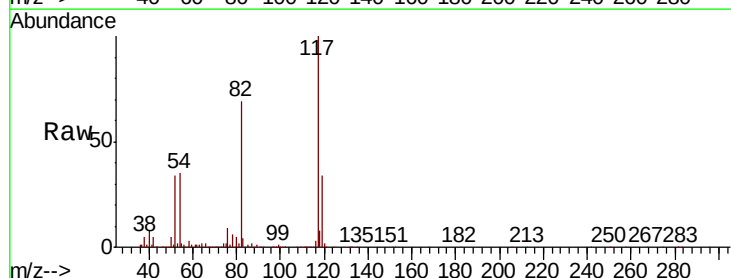
Tgt Ion: 117 Resp: 2639405

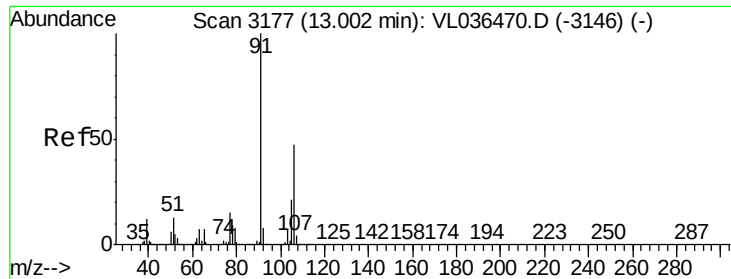
Ion Ratio Lower Upper

117 100

82 70.6 57.4 86.0

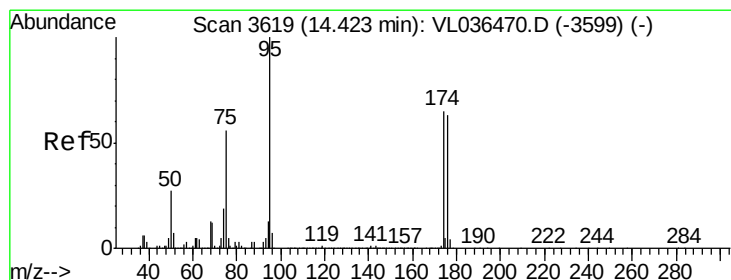
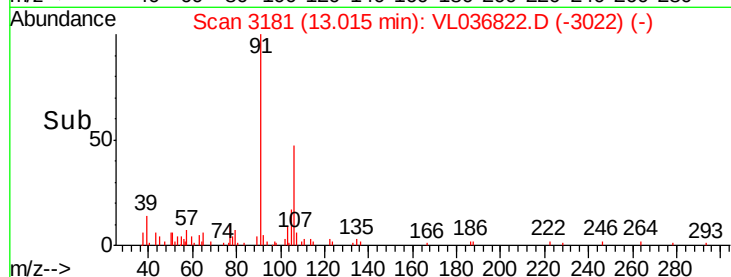
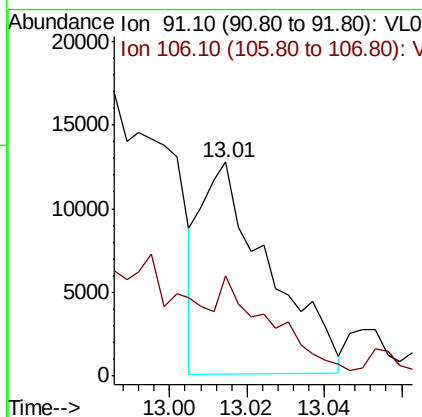
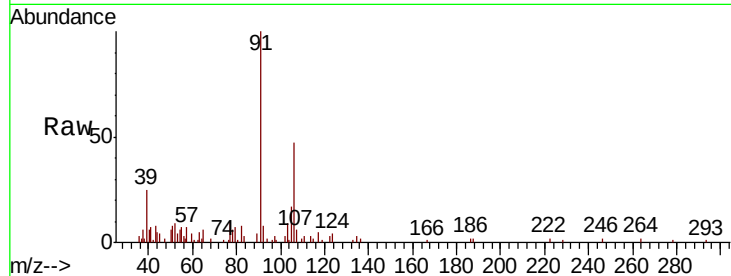
119 33.8 47.4 71.0#





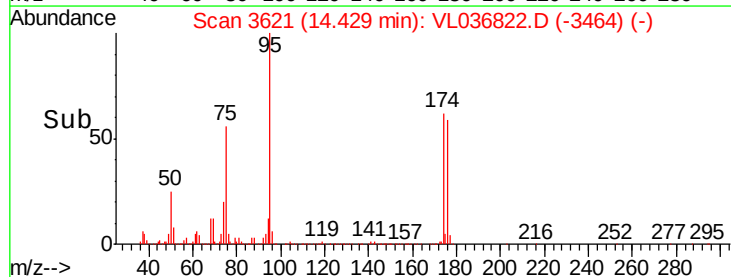
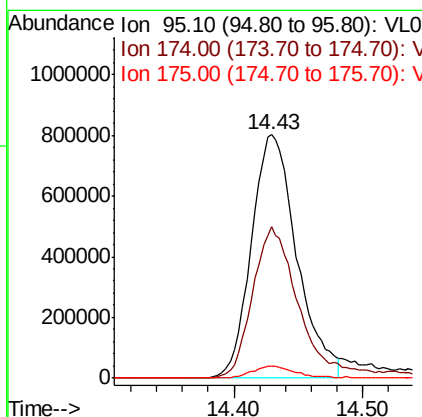
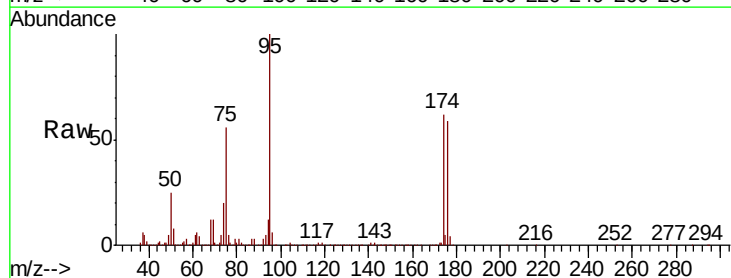
#59
m/p-Xylene
Concen: 0.046 ppbv
RT: 13.01 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 20 Apr 2021 15:20

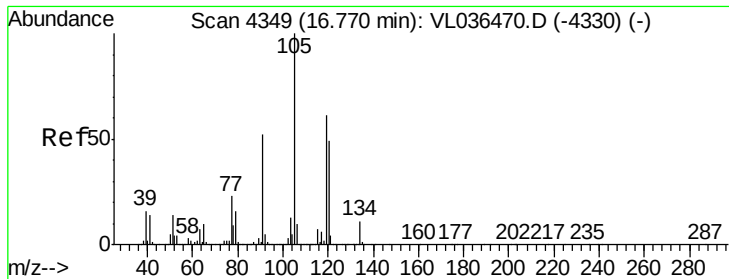
Tot Ion: 91 Resp: 15344
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.362 ppbv
RT: 14.43 min Scan# 3621
Delta R.T. 0.01 min
Lab File: VL036822.D
Acq: 20 Apr 2021 15:20

Tgt Ion: 95 Resp: 1969410
Ion Ratio Lower Upper
95 100
174 68.1 51.0 76.6
175 5.0 3.9 5.9





#74

1,2,4-Trimethylbenzene

Concen: 0.068 ppbv

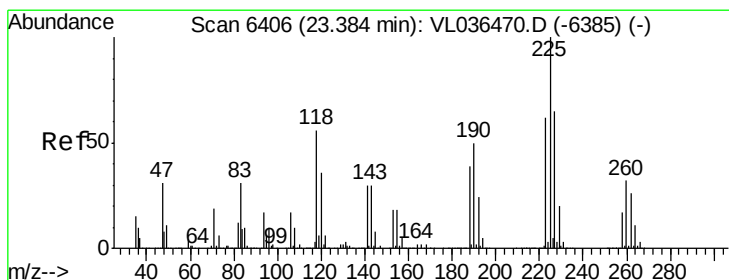
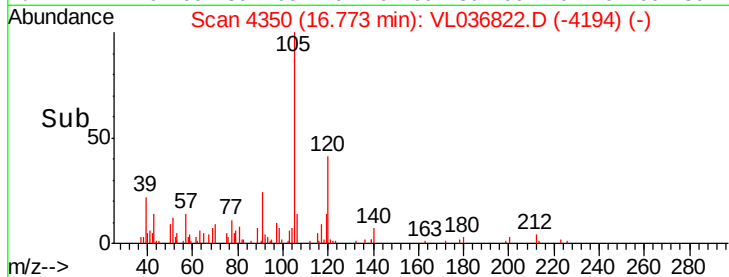
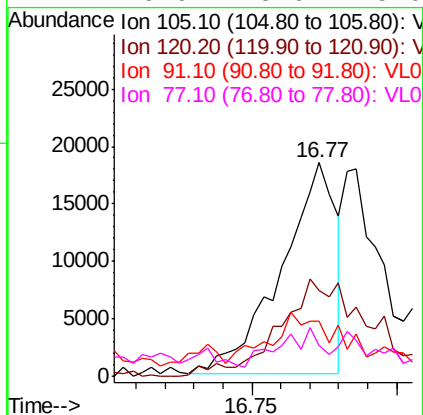
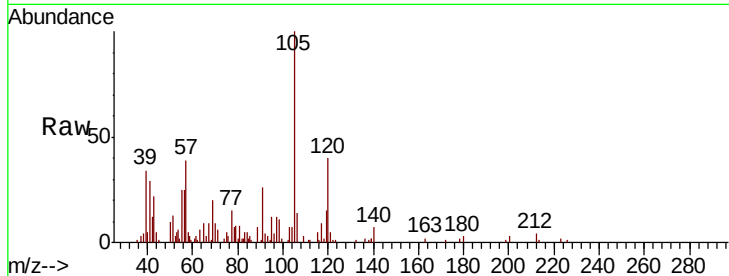
RT: 16.77 min

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 20 Apr 2021 15:20

Tot Ion:	105	Resp:	23943
Ion Ratio	Lower	Upper	
105	100		
120	39.9	39.2	58.8
91	14.7	42.6	64.0#
77	5.9	18.6	28.0#



#78

Hexachloro-1,3-Butadiene

Concen: 0.034 ppbv

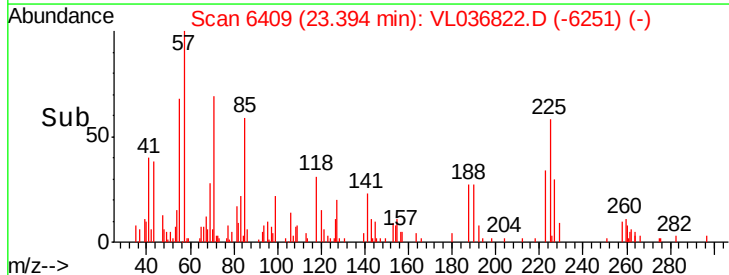
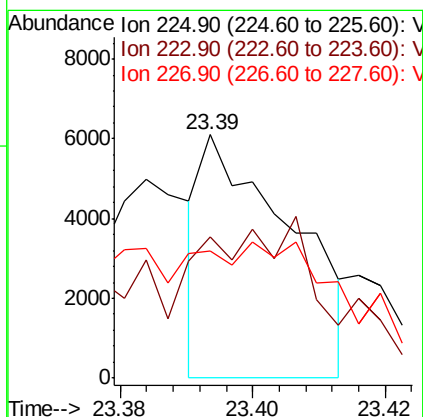
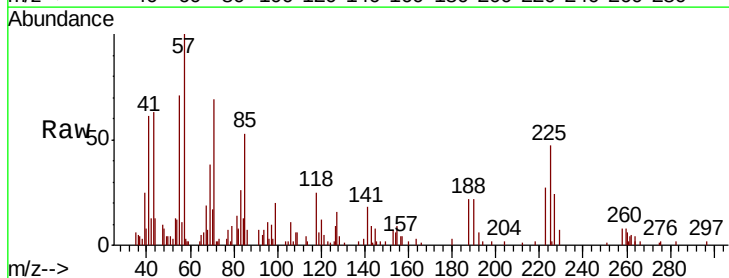
RT: 23.39 min Scan# 6409

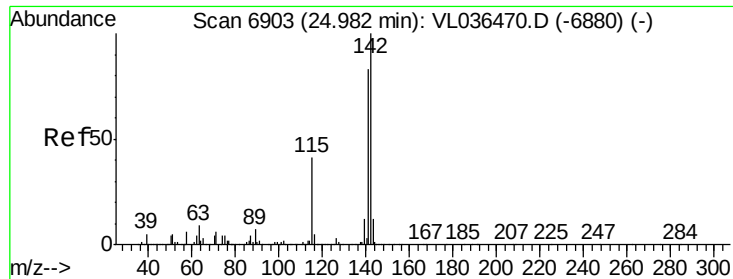
Delta R.T. 0.01 min

Lab File: VL036822.D

Acq: 20 Apr 2021 15:20

Tgt Ion:	225	Resp:	5733
Ion Ratio	Lower	Upper	
225	100		
223	0.0	50.6	75.8#
227	0.0	52.2	78.2#





#80

Naphthalene, 2-methyl-

Concen: 0.151 ppbv

RT: 24.99

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 20 Apr 2021 15:20

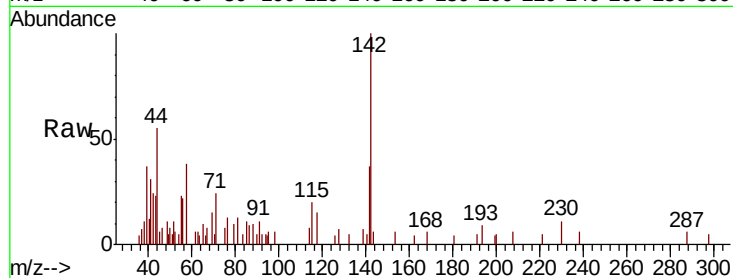
Tot Ion: 142 Resp: 6163

Ion Ratio Lower Upper

142 100

141 75.5 67.8 101.8

115 53.8 34.0 51.0#



Abundance Ion 142.00 (141.70 to 142.70): V

Ion 141.00 (140.70 to 141.70): V

Ion 115.00 (114.70 to 115.70): V

