

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022222\
 Data File : VL038401.D
 Acq On : 22 Feb 2022 23:27
 Operator : SY/AP
 Sample : N1607-08DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MP-1DL

Quant Time: Mar 14 08:04:36 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Feb 22 19:45:51 2022
 QLast Update : Tue Feb 22 19:45:51 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	907020	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2165675	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	1891625	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1573175	10.05	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

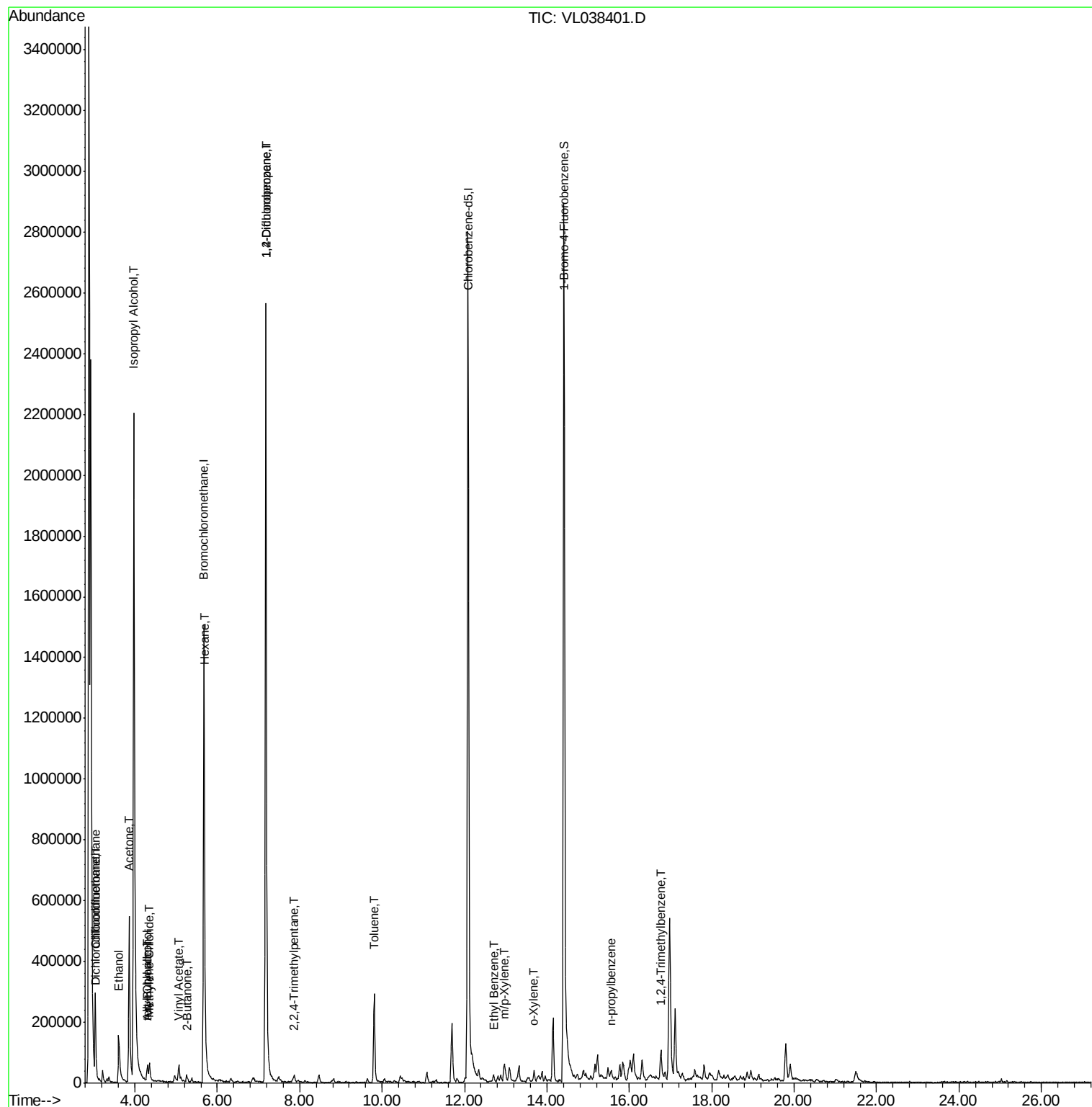
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	7800	0.05	ppbv #	69
3) Chlorodifluoromethane	3.04	51	149068	0.93	ppbv #	59
13) Ethanol	3.61	45	207710	39.36	ppbv	93
15) Acetone	3.86	43	726250	9.42	ppbv	98
17) tert-Butyl alcohol	4.30	59	54518	0.71	ppbv	95
19) Isopropyl Alcohol	3.97	45	3219322	72.08	ppbv #	97
20) Methylene Chloride	4.35	84	14551	0.38	ppbv #	84
21) Allyl Chloride	4.31	41	4862	0.07	ppbv #	20
23) Vinyl Acetate	5.07	43	13805	0.14	ppbv #	1
26) Hexane	5.69	57	15506	0.17	ppbv #	49
34) 2-Butanone	5.26	43	31339	0.46	ppbv	94
39) 1,2-Dichloropropane	7.18	63	573542	7.55	ppbv #	25
44) 2,2,4-Trimethylpentane	7.87	57	14607	0.04	ppbv #	64
53) Toluene	9.81	91	238923	1.15	ppbv	97
58) Ethyl Benzene	12.71	91	13294	0.05	ppbv	98
59) m/p-Xylene	12.96	91	45224	0.20	ppbv #	81
60) o-Xylene	13.68	91	23318	0.11	ppbv	91
64) n-propylbenzene	15.56	120	2930	0.04	ppbv #	1
74) 1,2,4-Trimethylbenzene	16.77	105	20046	0.09	ppbv #	68

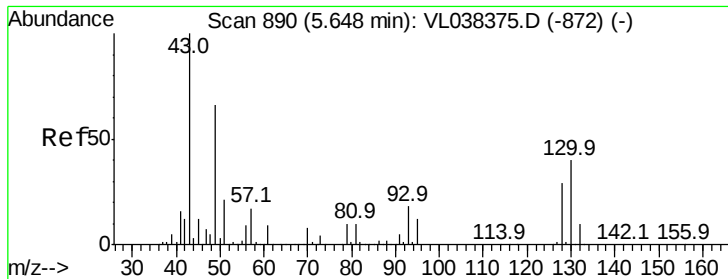
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 22 Feb 2022 23:27 MP-1DL

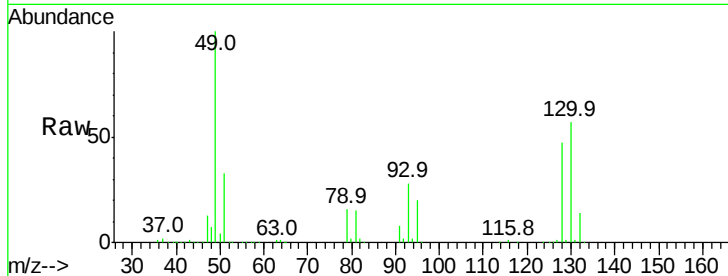
Tgt Ion: 49 Resp: 907020

Ion Ratio Lower Upper

49 100

128 46.2 24.3 72.9

130 58.5 30.1 90.5



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.67

400000

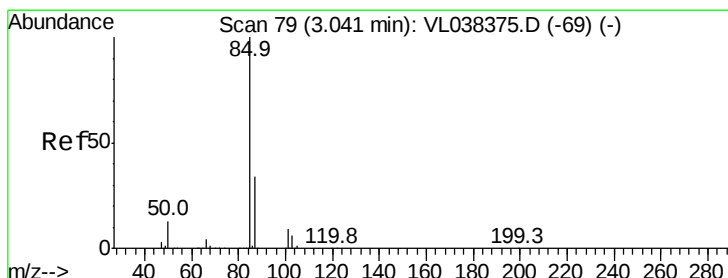
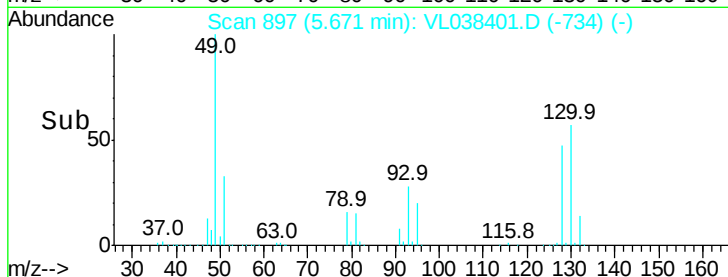
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.05 ppbv

RT: 3.06 min Scan# 84

Delta R.T. 0.02 min

Lab File: VL038401.D

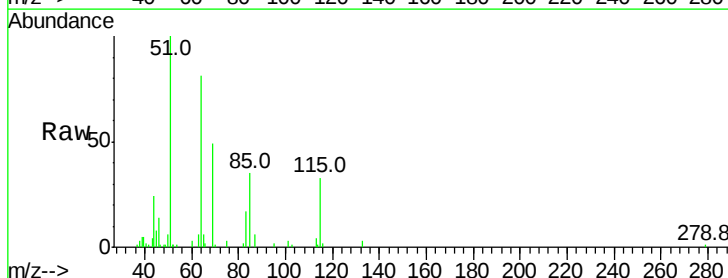
Acq: 22 Feb 2022 23:27

Tgt Ion: 85 Resp: 7800

Ion Ratio Lower Upper

85 100

87 16.7 27.4 41.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.06

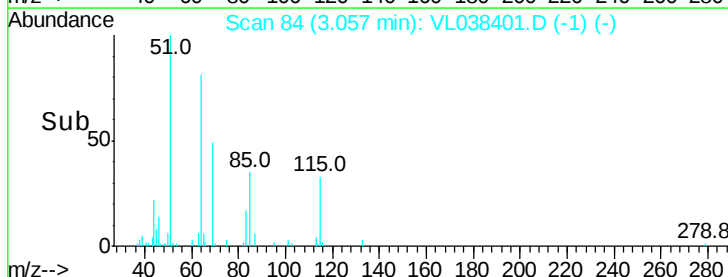
6000

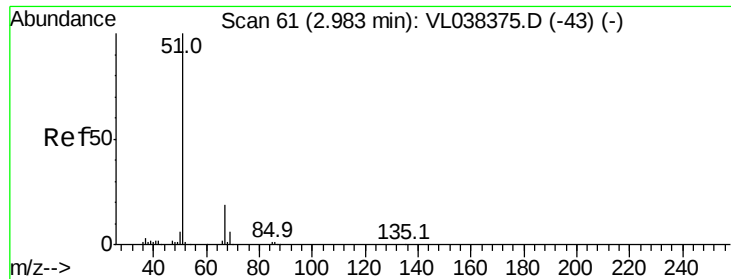
4000

2000

0

Time-->





#3

Chlorodifluoromethane

Concen: 0.93 ppbv

RT: 3.04 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: MP-1DL

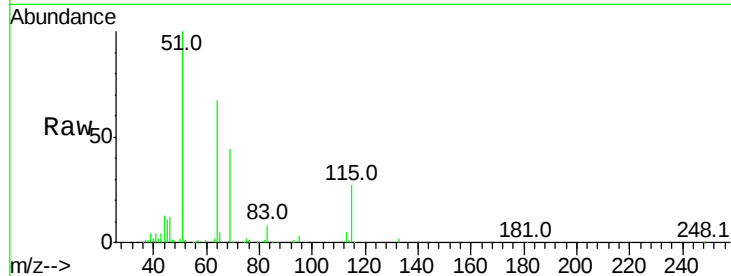
Acq: 22 Feb 2022 23:27

Tgt Ion: 51 Resp: 149068

Ion Ratio Lower Upper

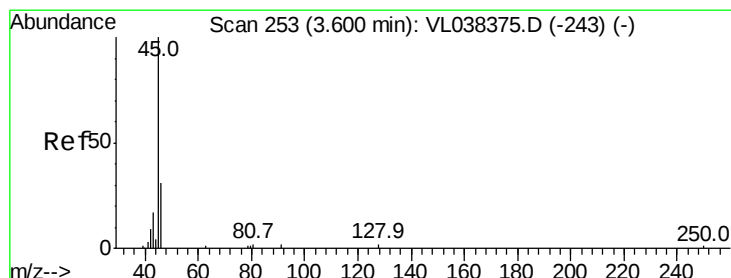
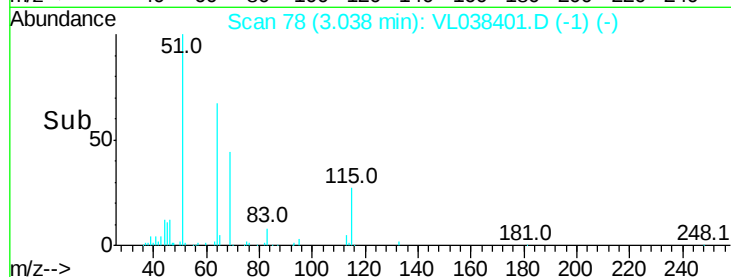
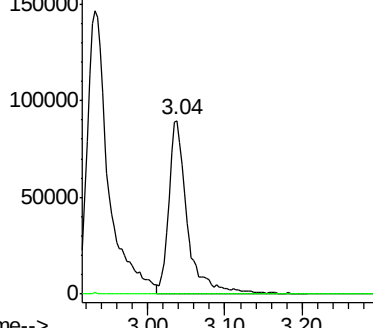
51 100

67 0.2 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#13

Ethanol

Concen: 39.36 ppbv

RT: 3.61 min Scan# 255

Delta R.T. 0.01 min

Lab File: VL038401.D

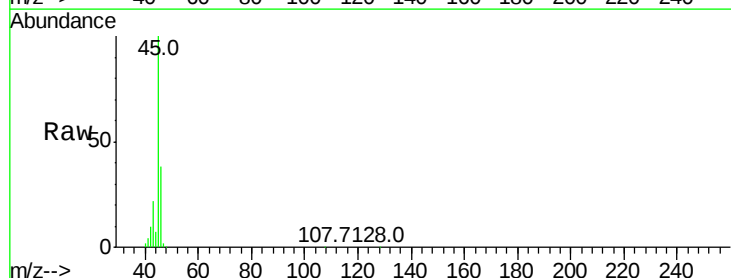
Acq: 22 Feb 2022 23:27

Tgt Ion: 45 Resp: 207710

Ion Ratio Lower Upper

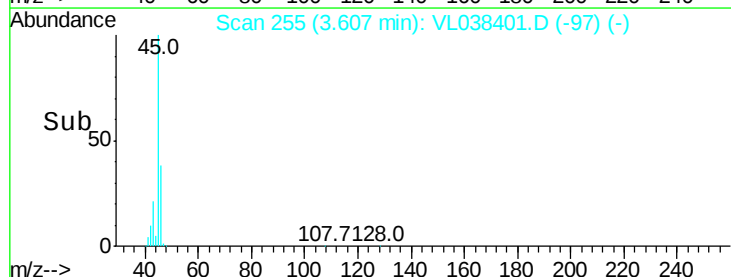
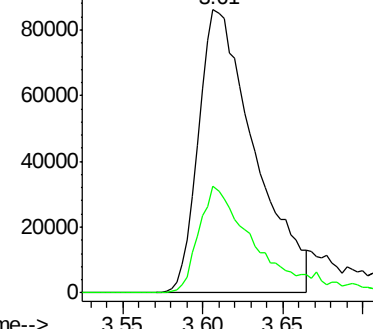
45 100

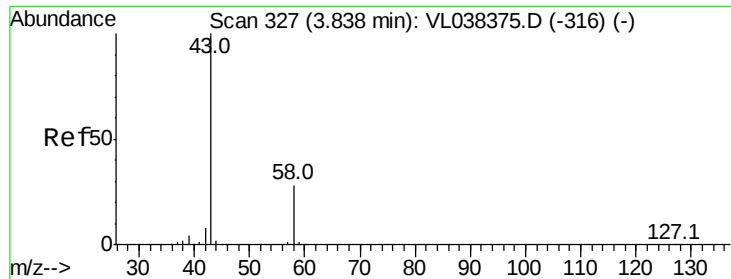
46 41.2 18.2 72.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 9.42 ppbv

RT: 3.86 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: MP-1DL

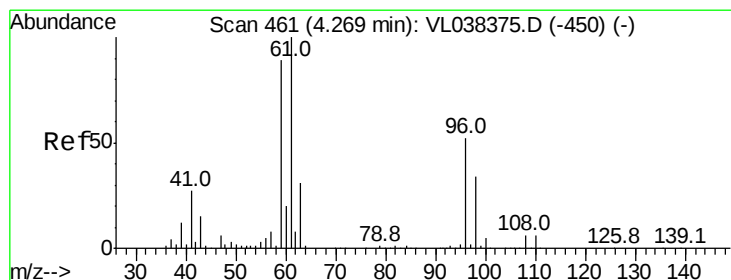
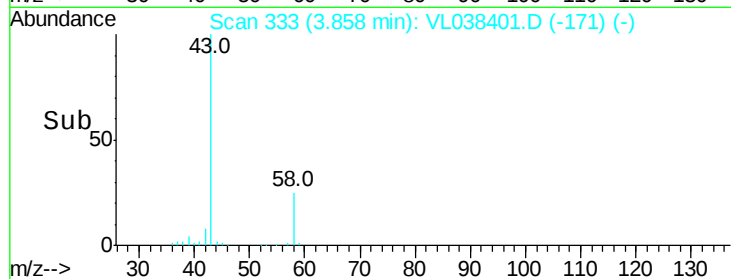
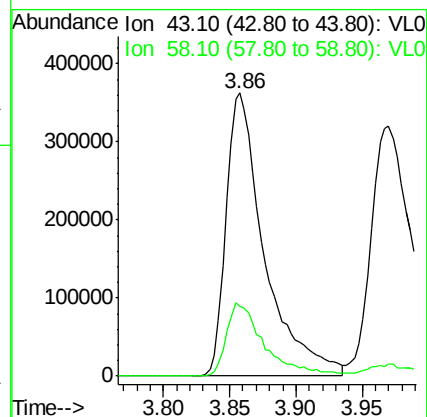
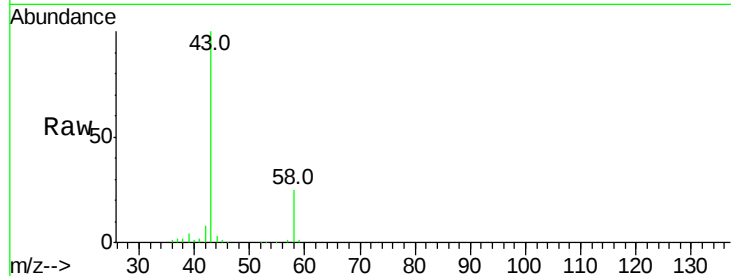
Acq: 22 Feb 2022 23:27

Tgt Ion: 43 Resp: 726250

Ion Ratio Lower Upper

43 100

58 26.1 21.7 32.5



#17

tert-Butyl alcohol

Concen: 0.71 ppbv

RT: 4.30 min Scan# 472

Delta R.T. 0.04 min

Lab File: VL038401.D

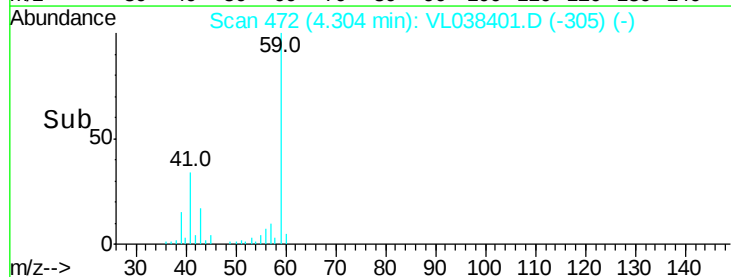
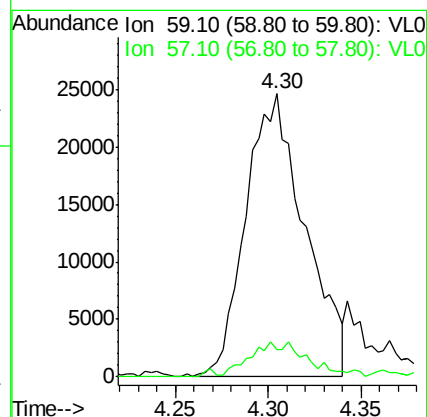
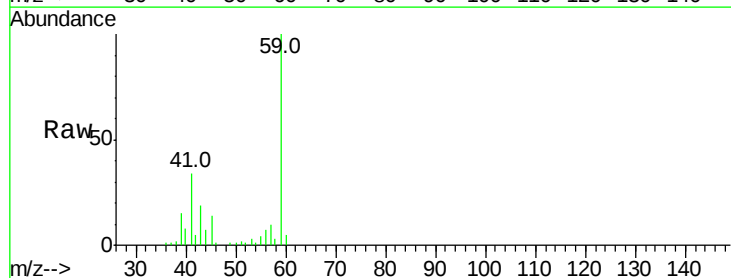
Acq: 22 Feb 2022 23:27

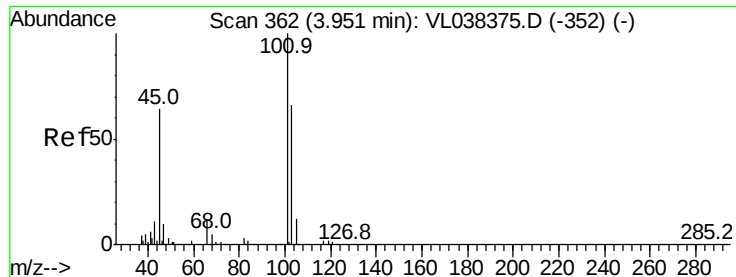
Tgt Ion: 59 Resp: 54518

Ion Ratio Lower Upper

59 100

57 12.5 8.4 12.6





#19

Isopropyl Alcohol

Concen: 72.08 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

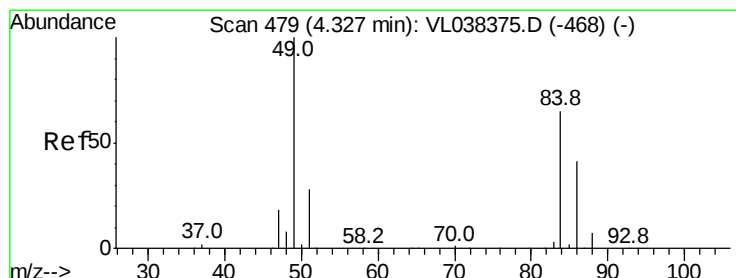
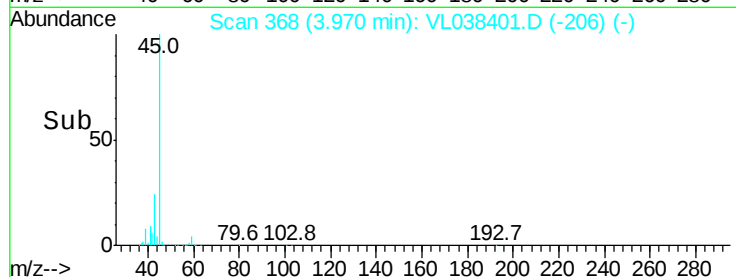
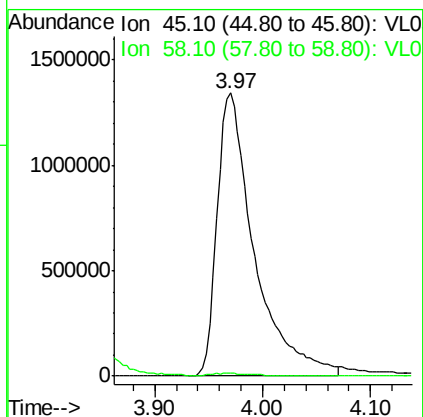
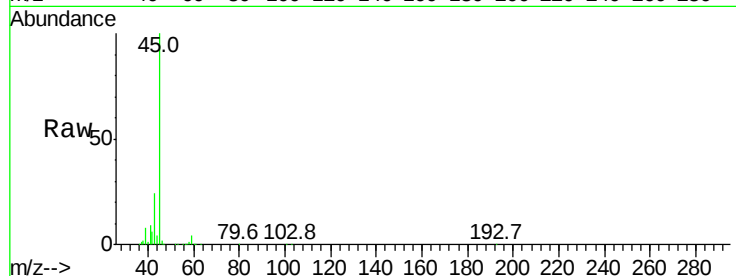
Acq: 22 Feb 2022 23:27

Tgt Ion: 45 Resp: 3219322

Ion Ratio Lower Upper

45 100

58 1.4 1.8 2.8#



#20

Methylene Chloride

Concen: 0.38 ppbv

RT: 4.35 min Scan# 486

Delta R.T. 0.02 min

Lab File: VL038401.D

Acq: 22 Feb 2022 23:27

Tgt Ion: 84 Resp: 14551

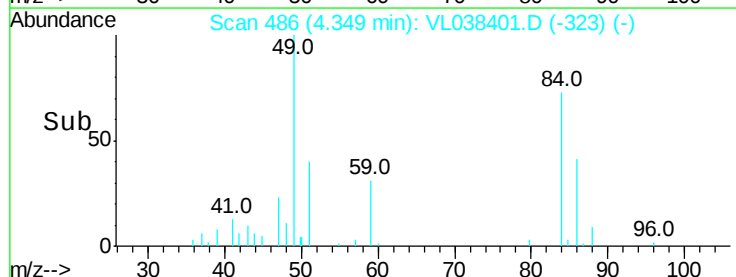
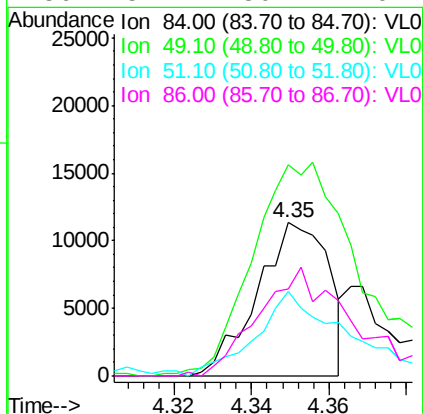
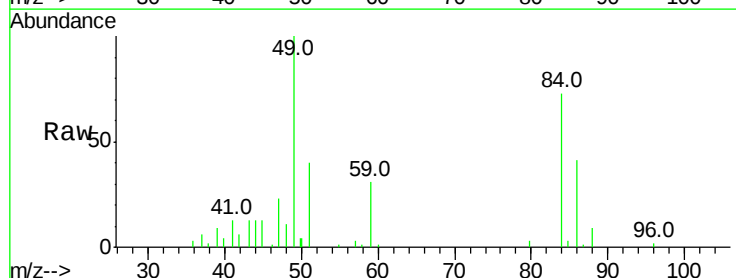
Ion Ratio Lower Upper

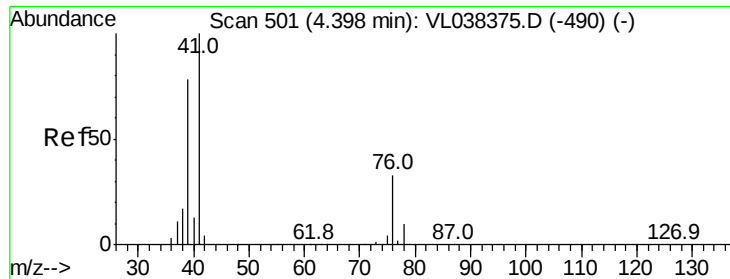
84 100

49 133.4 122.4 183.6

51 52.9 33.3 49.9#

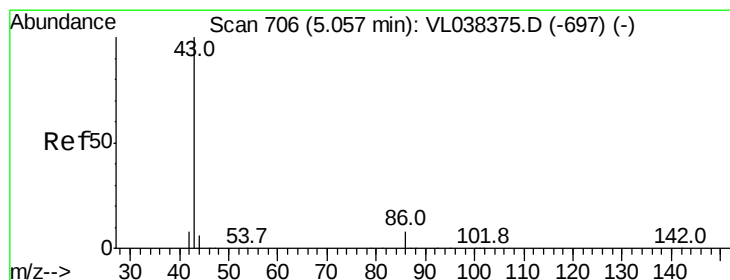
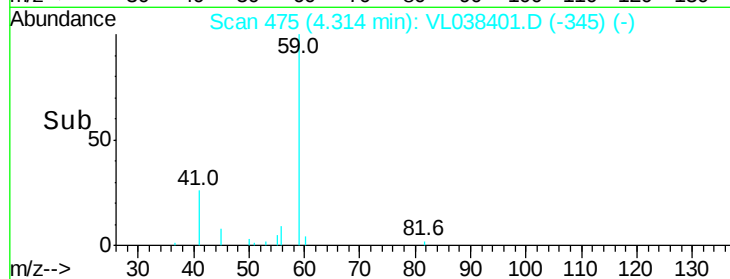
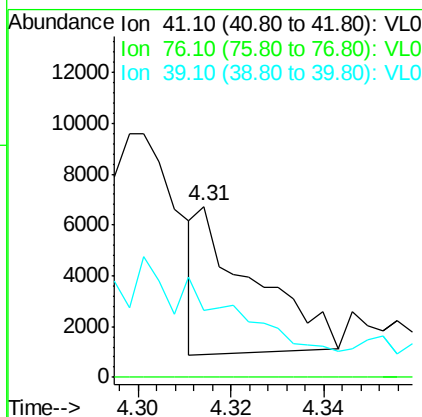
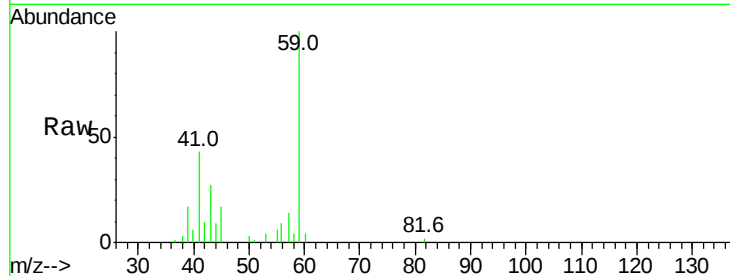
86 52.1 50.7 76.1





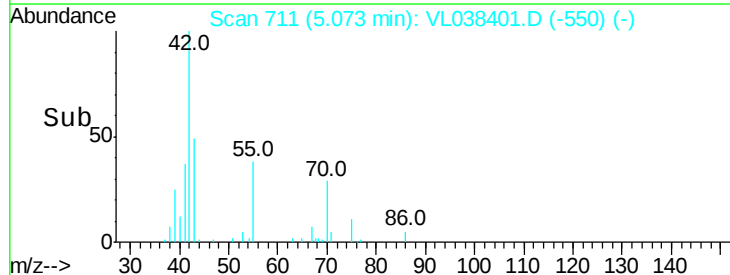
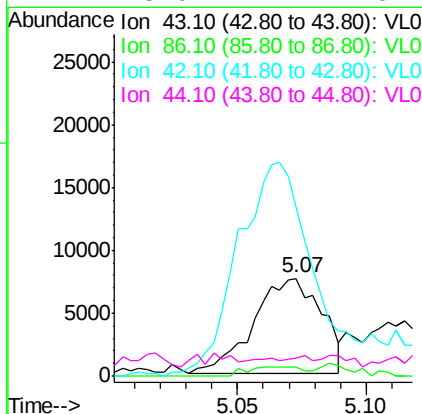
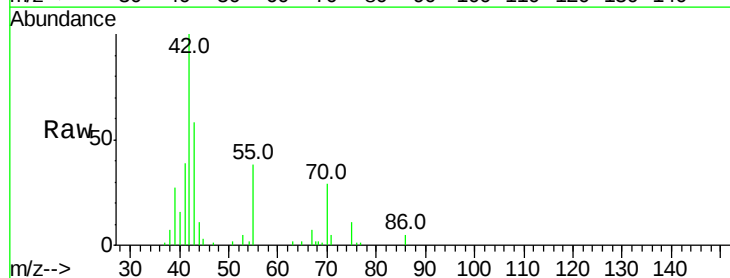
#21
 Allyl Chloride
 Concen: 0.07 ppbv
 RT: 4.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 23:27

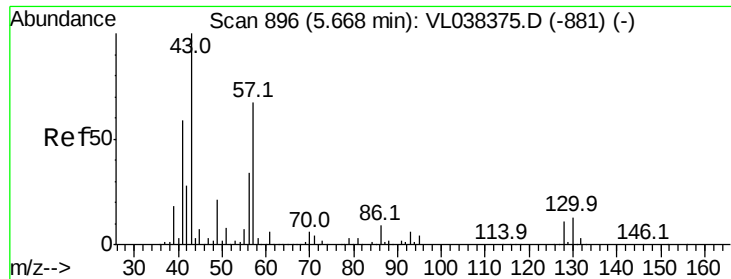
Tgt Ion: 41 Resp: 4862
 Ion Ratio Lower Upper
 41 100
 76 1.1 25.4 38.0#
 39 0.0 63.0 94.6#



#23
 Vinyl Acetate
 Concen: 0.14 ppbv
 RT: 5.07 min Scan# 711
 Delta R.T. 0.02 min
 Lab File: VL038401.D
 Acq: 22 Feb 2022 23:27

Tgt Ion: 43 Resp: 13805
 Ion Ratio Lower Upper
 43 100
 86 9.1 5.8 8.6#
 42 167.7 7.4 11.0#
 44 3.0 4.2 6.2#





#26

Hexane

Concen: 0.17 ppbv

RT: 5.69 Instrument:

Delta R.T. MSVOA_L

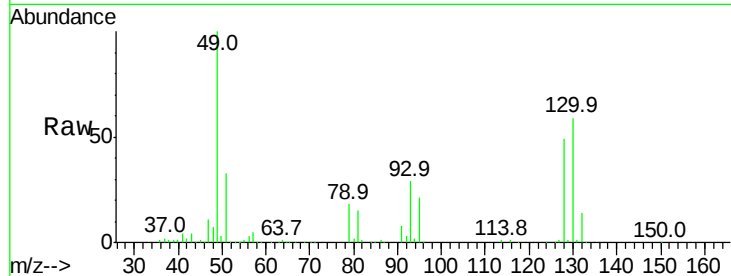
Lab File: ClientSampleId:

Acq: 22 Feb 2022 23:27 MP-1DL

Tgt Ion: 57 Resp: 15506

Ion Ratio Lower Upper

57	100		
41	106.7	73.1	109.7
43	102.3	181.0	271.4
56	58.1	43.4	65.0

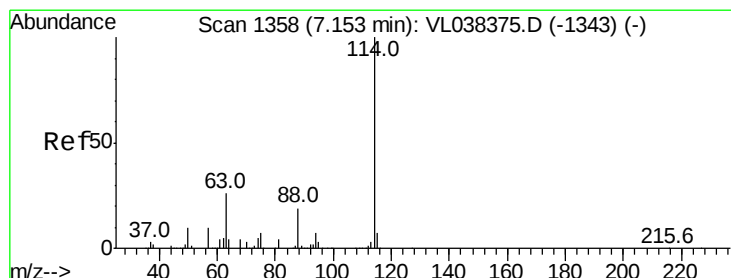
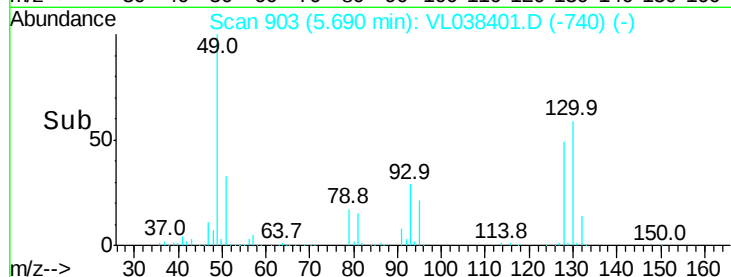
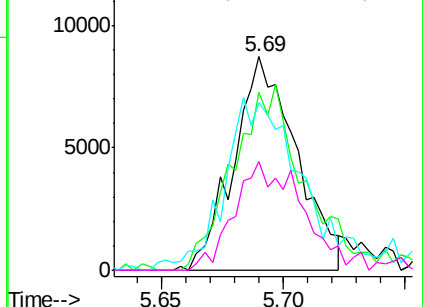


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

RT: 7.18 min Scan# 1366

Delta R.T. 0.03 min

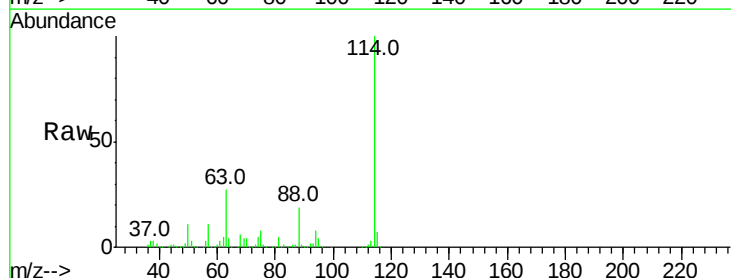
Lab File: VL038401.D

Acq: 22 Feb 2022 23:27

Tgt Ion: 114 Resp: 2165675

Ion Ratio Lower Upper

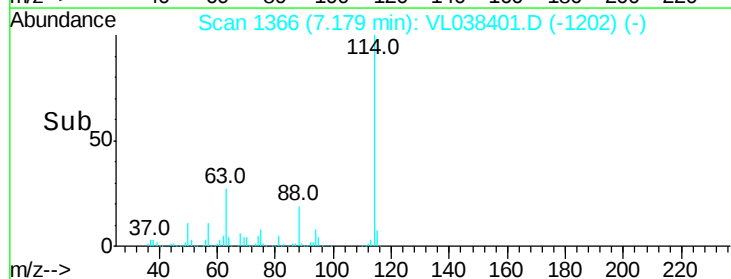
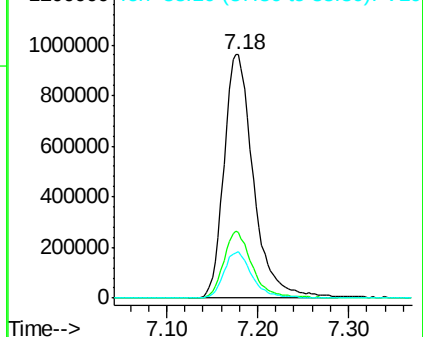
114	100		
63	27.0	22.2	33.2
88	18.7	15.2	22.8

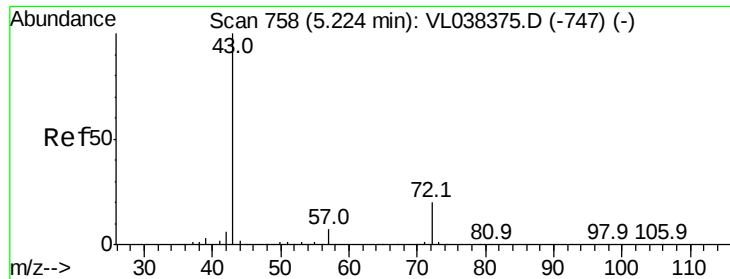


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.46 ppbv

RT: 5.26 Instrument: MSVOA_1

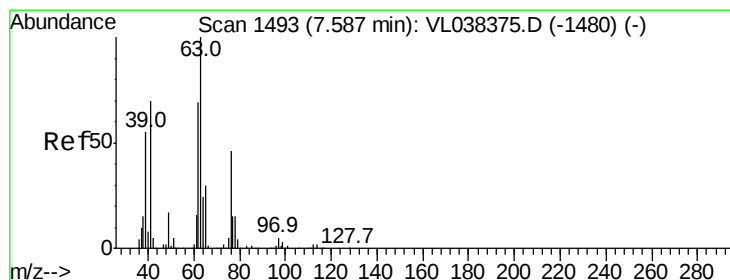
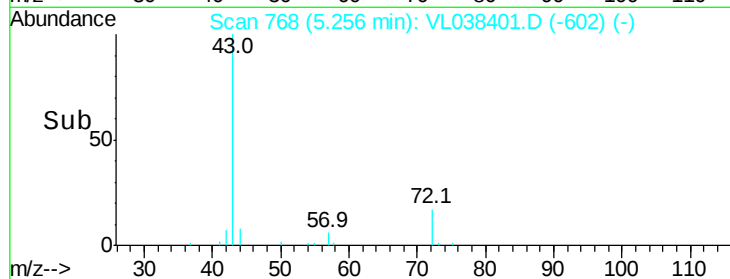
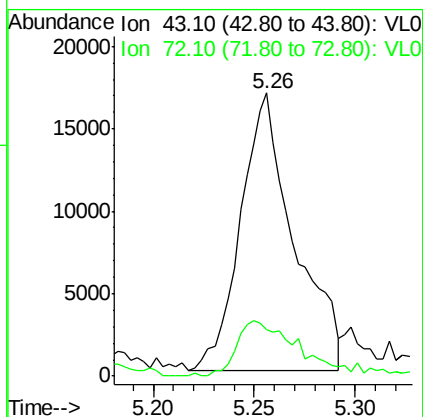
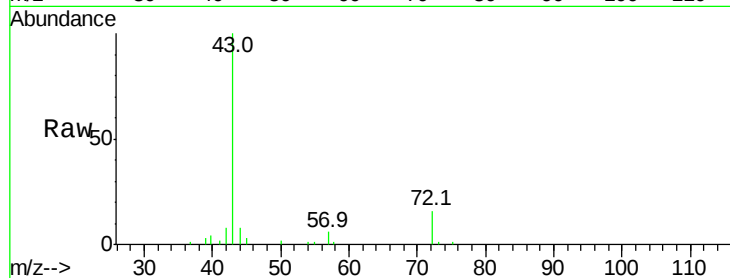
Delta R.T. ClientSampleId:

Lab File: MP-1DL

Acq: 22 Feb 2022 23:27

Tgt Ion: 43 Resp: 31339

Ion	Ratio	Lower	Upper
43	100		
72	24.7	17.4	26.2



#39

1,2-Dichloropropane

Concen: 7.55 ppbv

RT: 7.18 min Scan# 1365

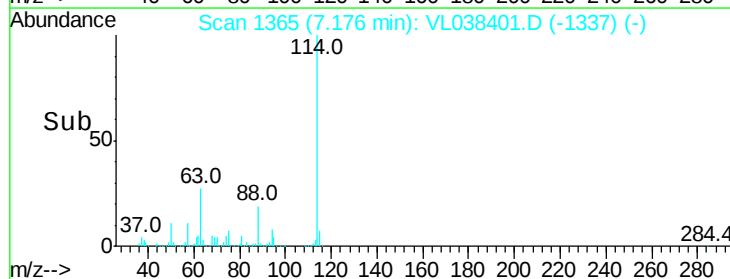
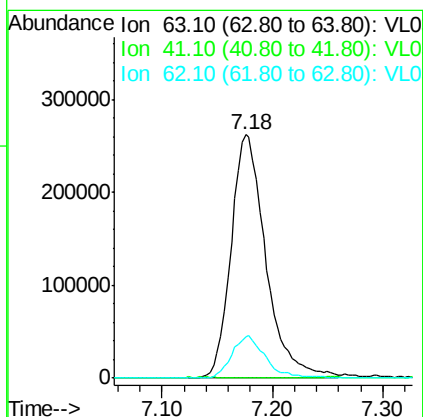
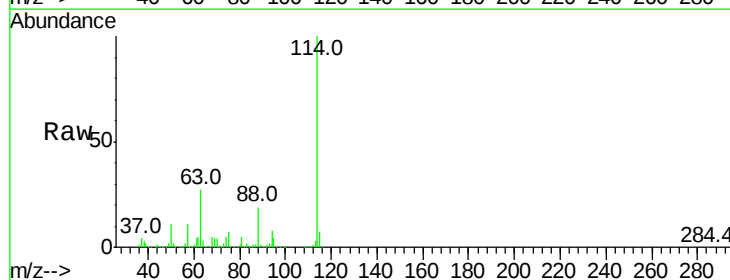
Delta R.T. -0.41 min

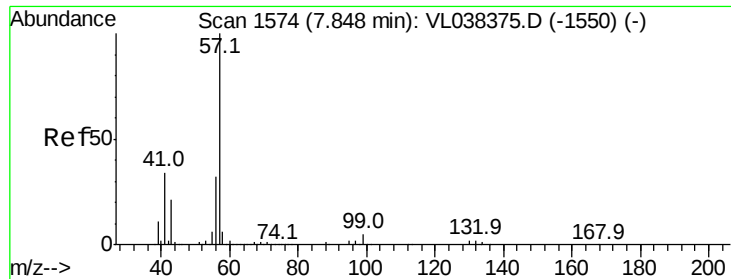
Lab File: VL038401.D

Acq: 22 Feb 2022 23:27

Tgt Ion: 63 Resp: 573542

Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.1	84.1#
62	17.1	55.5	83.3#





#44

2,2,4-Trimethylpentane

Concen: 0.04 ppbv

RT: 7.87 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 22 Feb 2022 23:27

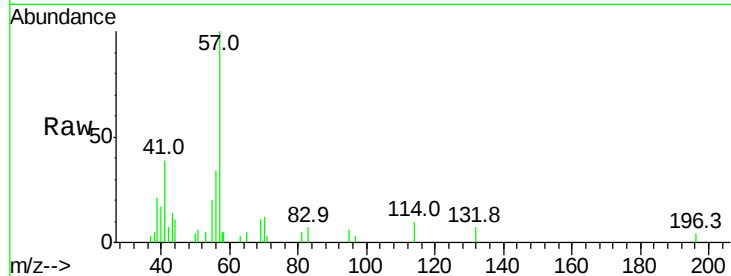
Tgt Ion: 57 Resp: 14607

Ion Ratio Lower Upper

57 100

41 56.1 26.6 39.8#

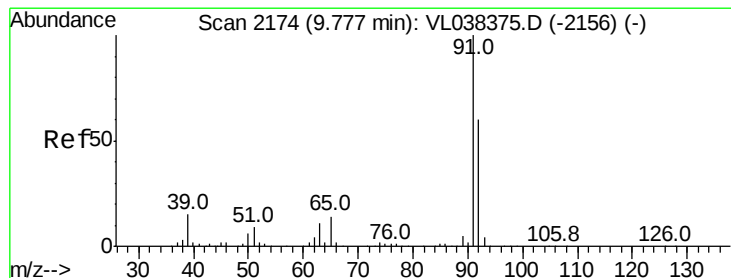
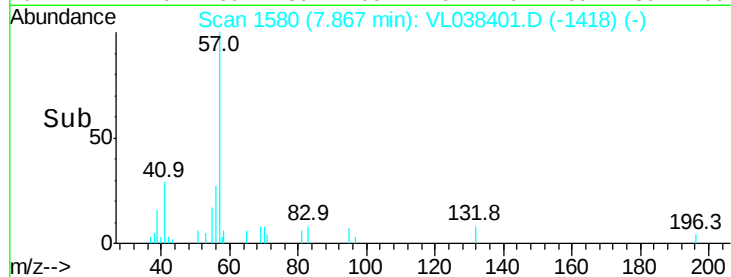
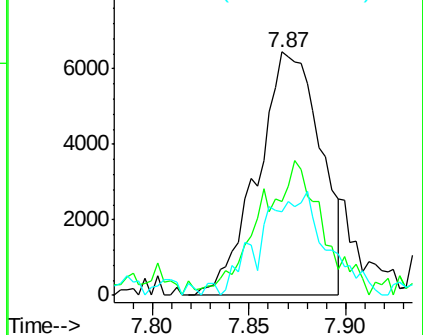
56 48.1 25.0 37.6#



Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#53

Toluene

Concen: 1.15 ppbv

RT: 9.81 min Scan# 2183

Delta R.T. 0.03 min

Lab File: VL038401.D

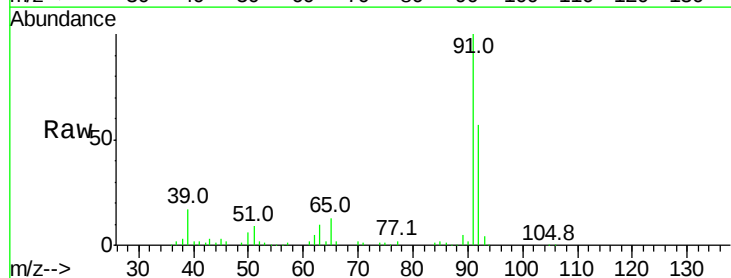
Acq: 22 Feb 2022 23:27

Tgt Ion: 91 Resp: 238923

Ion Ratio Lower Upper

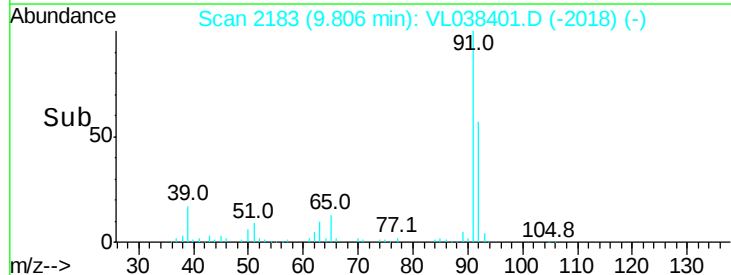
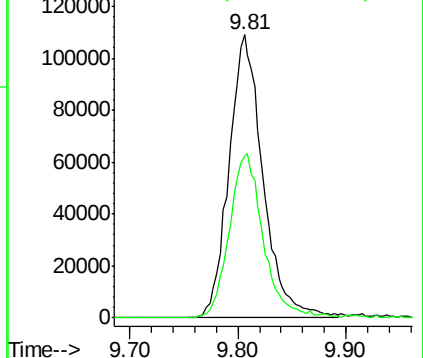
91 100

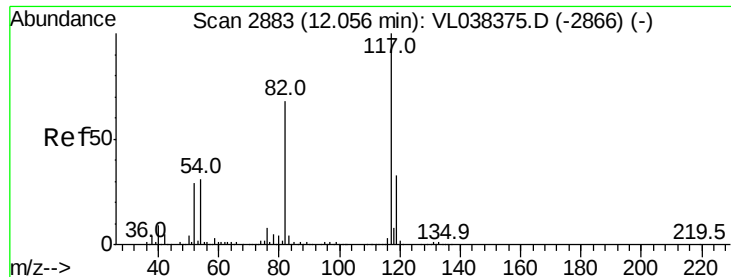
92 58.0 48.2 72.4



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: 12.09

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 22 Feb 2022 23:27

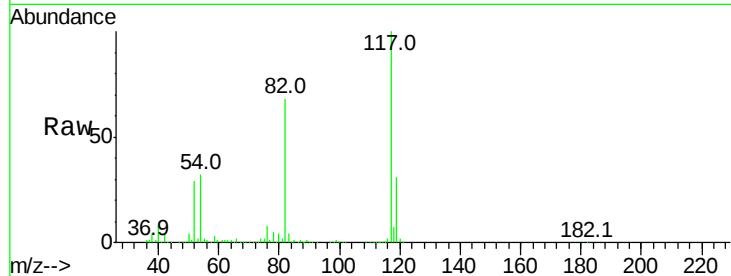
Tgt Ion: 117 Resp: 1891625

Ion Ratio Lower Upper

117 100

82 74.1 54.9 82.3

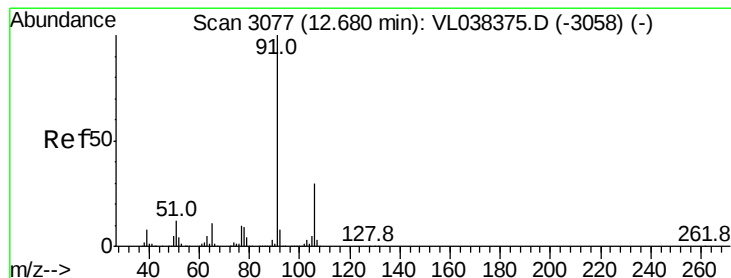
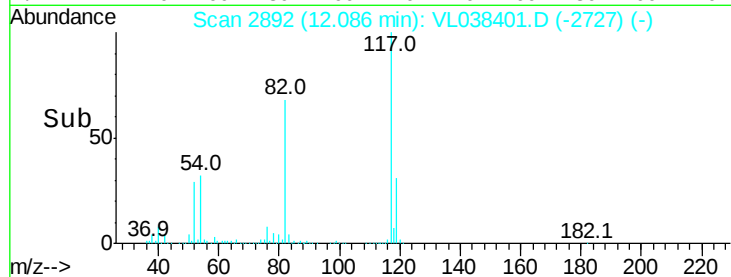
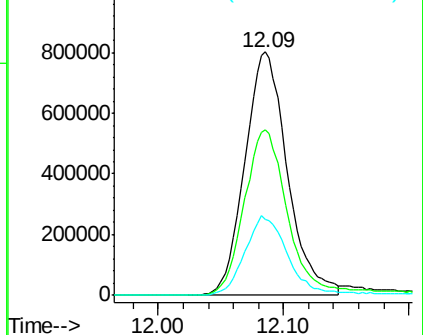
119 34.9 46.1 69.1#



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: 0.05 ppbv

RT: 12.71 min Scan# 3086

Delta R.T. 0.03 min

Lab File: VL038401.D

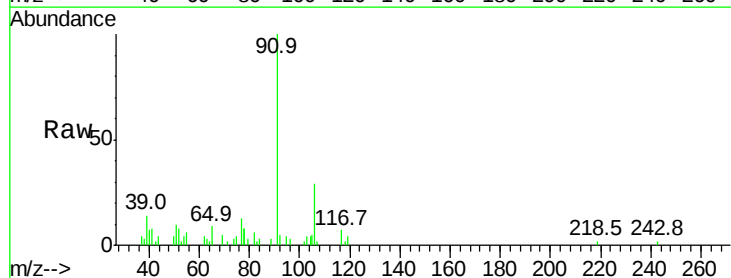
Acq: 22 Feb 2022 23:27

Tgt Ion: 91 Resp: 13294

Ion Ratio Lower Upper

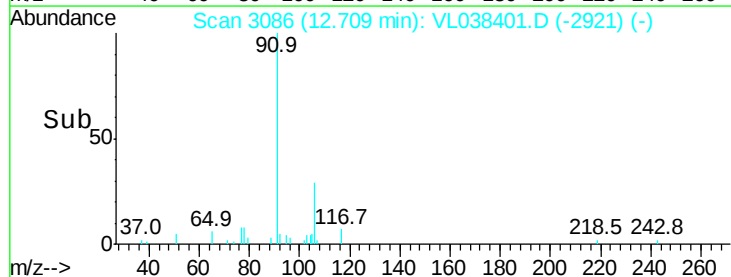
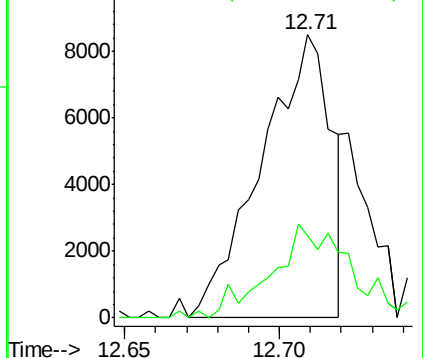
91 100

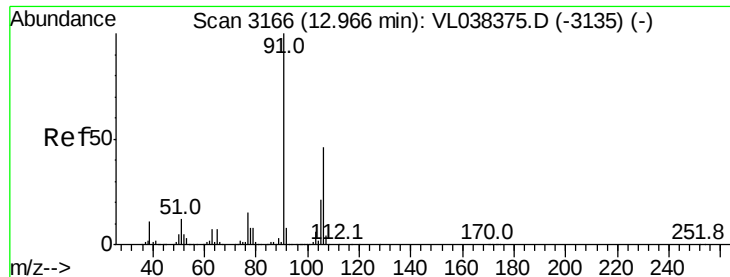
106 29.0 24.0 36.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

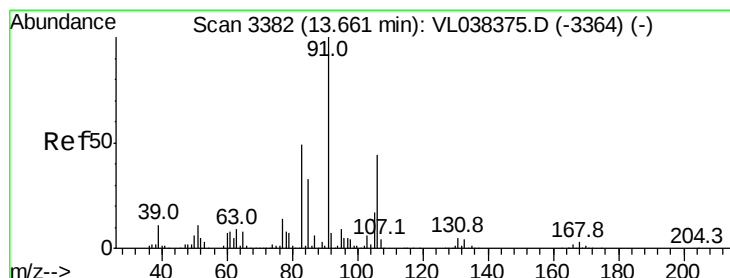
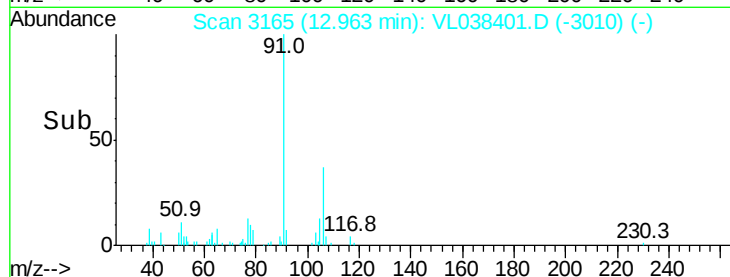
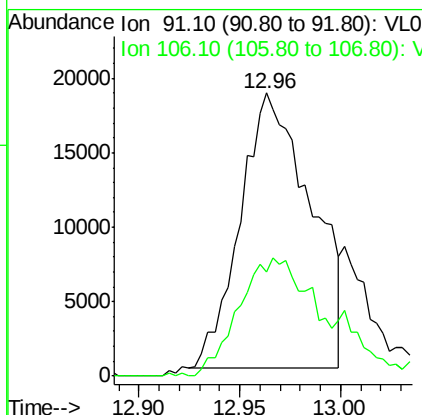
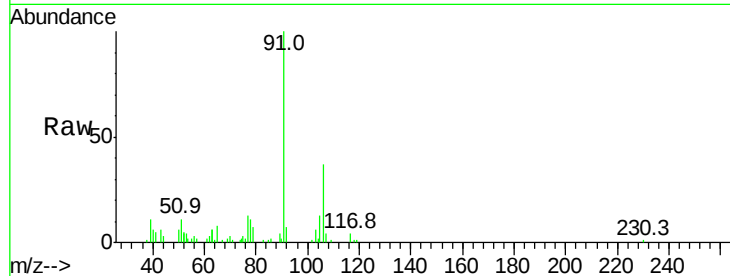
Ion 106.10 (105.80 to 106.80): V





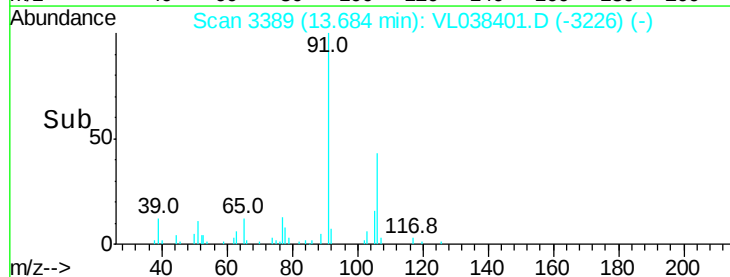
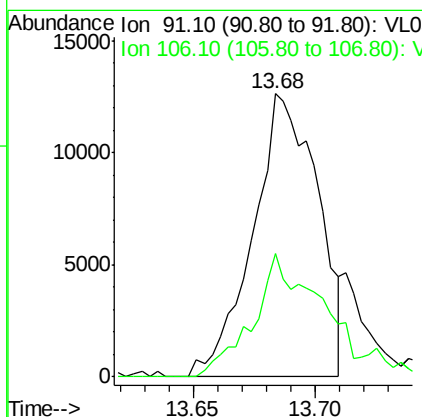
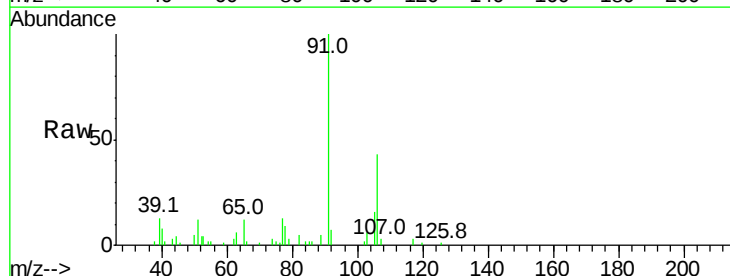
#59
m/p-Xylene
Concen: 0.20 ppbv
RT: 12.96 min
Delta R.T. MSVOA_1
Lab File: ClientSampleId :
Acq: 22 Feb 2022 23:27

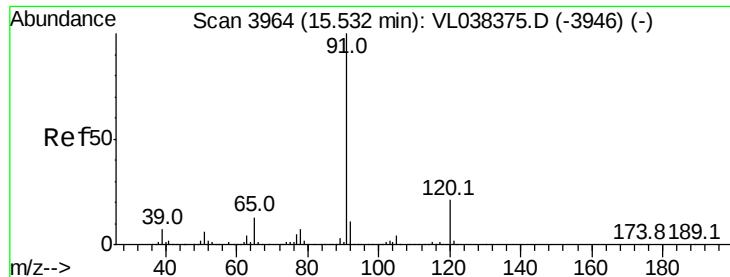
Tgt Ion: 91 Resp: 45224
Ion Ratio Lower Upper
91 100
106 55.2 34.4 51.6#



#60
o-Xylene
Concen: 0.11 ppbv
RT: 13.68 min Scan# 3389
Delta R.T. 0.02 min
Lab File: VL038401.D
Acq: 22 Feb 2022 23:27

Tgt Ion: 91 Resp: 23318
Ion Ratio Lower Upper
91 100
106 49.5 21.9 65.5





#64

n-propylbenzene

Concen: 0.04 ppbv

RT: 15.56

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

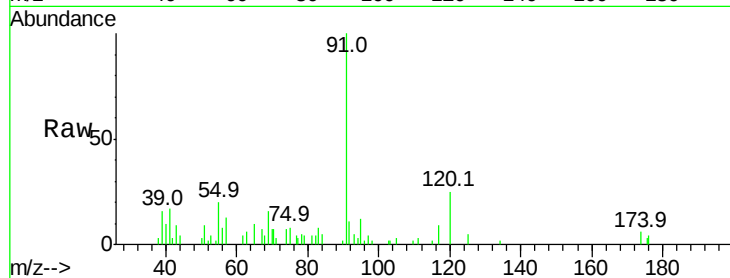
Acq: 22 Feb 2022 23:27

Tgt Ion: 120 Resp: 2930

Ion Ratio Lower Upper

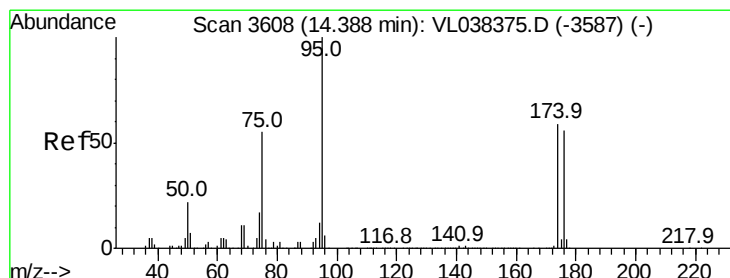
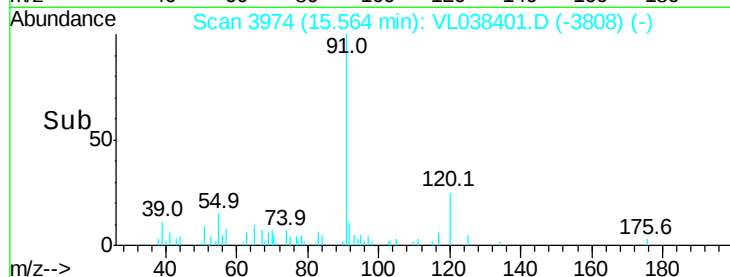
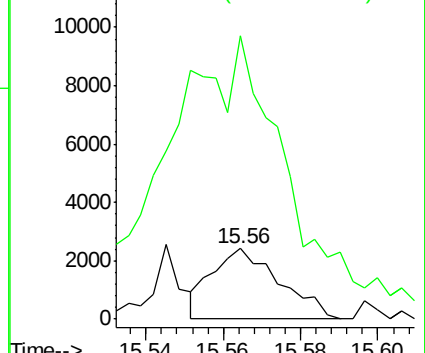
120 100

91 791.2 388.1 582.1#



Abundance Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0



#68

1-Bromo-4-Fluorobenzene

Concen: 10.05 ppbv

RT: 14.41 min Scan# 3616

Delta R.T. 0.03 min

Lab File: VL038401.D

Acq: 22 Feb 2022 23:27

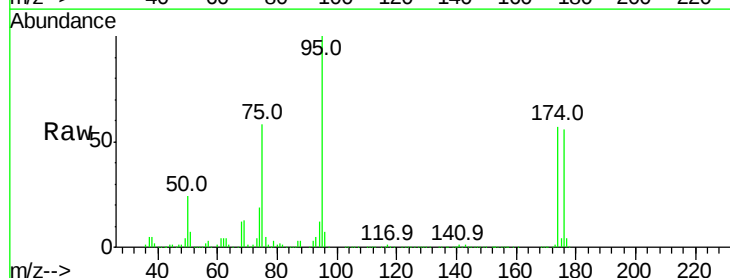
Tgt Ion: 95 Resp: 1573175

Ion Ratio Lower Upper

95 100

174 62.0 49.0 73.4

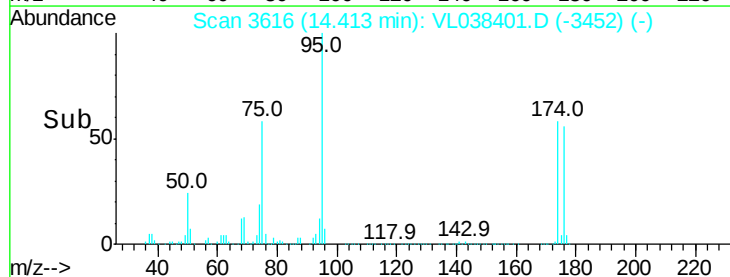
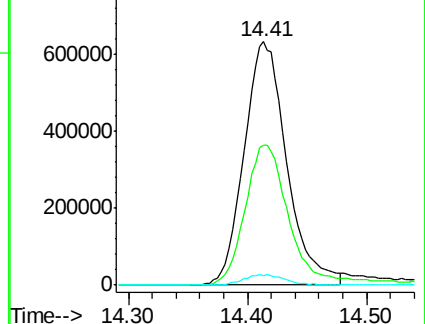
175 4.6 3.6 5.4

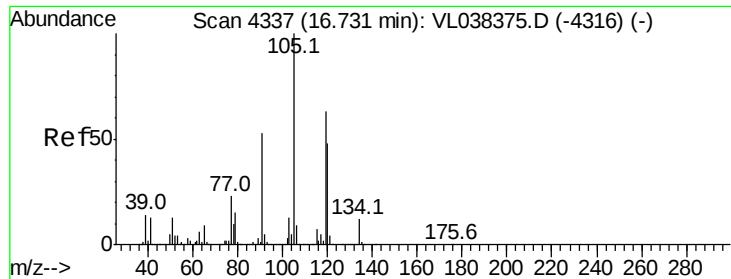


Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V





#74
 1,2,4-Trimethylbenzene
 Concen: 0.09 ppbv
 RT: 16.77
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 22 Feb 2022 23:27

Tgt Ion:	105	Resp:	20046
Ion Ratio	Lower	Upper	
105	100		
120	38.2	38.2	57.4#
91	13.6	42.7	64.1#
77	15.9	18.5	27.7#

