

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050522\
 Data File : VL038976.D
 Acq On : 5 May 2022 17:20
 Operator : SY/AP
 Sample : N2698-03DL 5X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :

Quant Time: May 06 07:29:08 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 05 07:41:27 2022
 QLast Update : Thu May 05 07:41:27 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1303271	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3408220	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2986947	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1097673	4.64	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	46.40%#

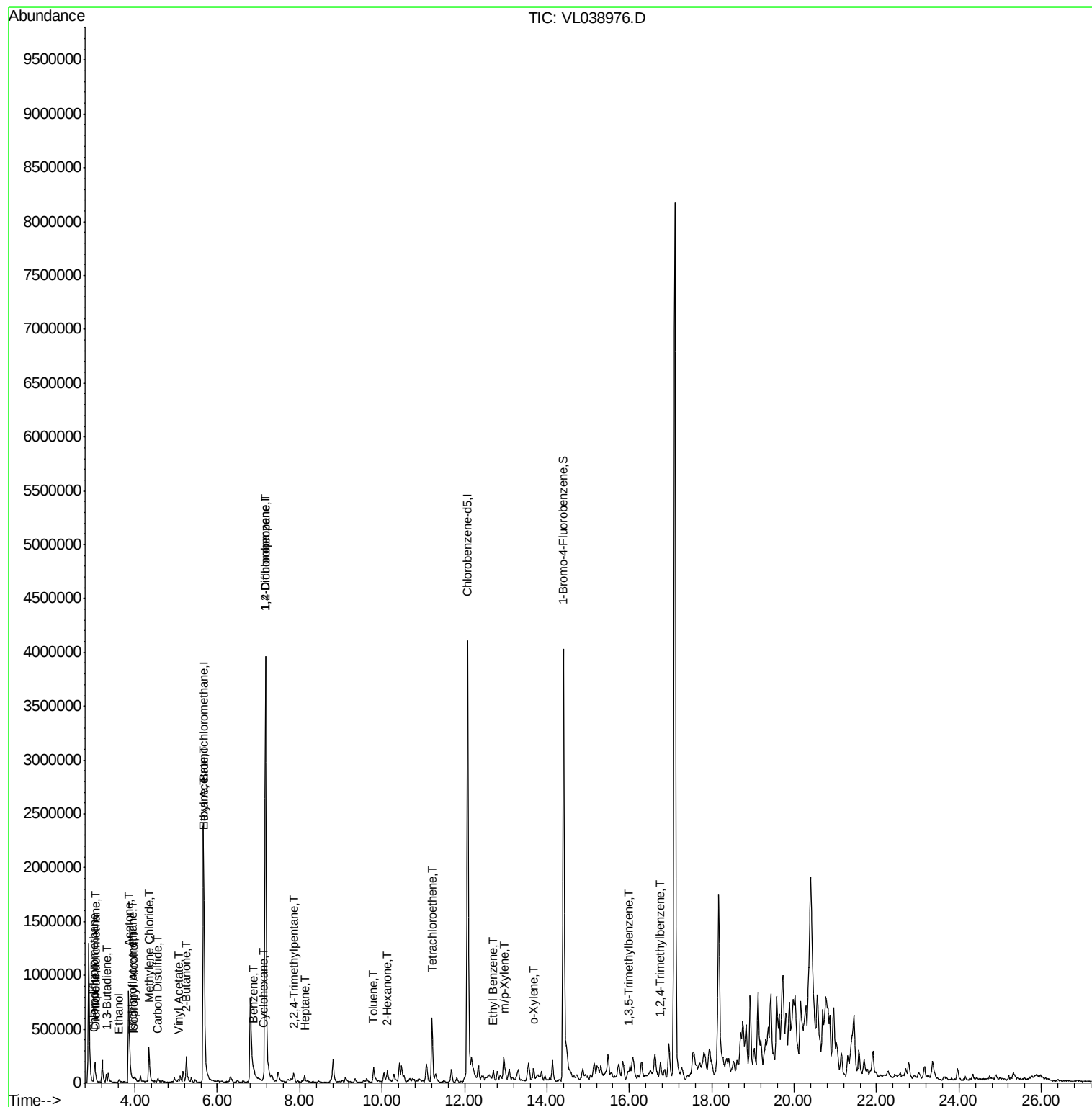
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	28871	0.141 ppbv #	83
3) Chlorodifluoromethane	2.99	51	10556	0.065 ppbv	93
9) Propene	3.02	41	60101	0.851 ppbv #	82
10) Heptane	8.12	43	16615	0.096 ppbv #	30
11) Trichlorofluoromethane	3.95	101	8779	0.050 ppbv	93
13) Ethanol	3.61	45	15016	2.723 ppbv #	2
15) Acetone	3.85	43	1183105	9.624 ppbv	98
16) 1,3-Butadiene	3.32	39	7543	0.107 ppbv #	33
19) Isopropyl Alcohol	3.97	45	14650	0.251 ppbv #	95
20) Methylene Chloride	4.35	84	124655	2.690 ppbv	97
23) Vinyl Acetate	5.05	43	8706	0.090 ppbv #	1
25) Ethyl Acetate	5.68	43	148323	0.504 ppbv #	78
26) Hexane	5.68	57	214546	1.641 ppbv #	37
27) Carbon Disulfide	4.55	76	48249	0.388 ppbv #	81
30) Cyclohexane	7.12	84	5738	0.052 ppbv #	1
34) 2-Butanone	5.25	43	312289	1.796 ppbv #	88
36) Benzene	6.89	78	14320	0.049 ppbv	93
39) 1,2-Dichloropropane	7.17	63	826401	7.282 ppbv #	26
44) 2,2,4-Trimethylpentane	7.86	57	34409	0.067 ppbv #	1
51) 2-Hexanone	10.13	43	95458	0.429 ppbv	93
52) Tetrachloroethene	11.21	164	147392	1.414 ppbv	96
53) Toluene	9.80	91	90256	0.276 ppbv	100
58) Ethyl Benzene	12.70	91	63839	0.149 ppbv	97
59) m/p-Xylene	12.95	91	216827	0.591 ppbv	95
60) o-Xylene	13.68	91	18452	0.053 ppbv #	1
73) 1,3,5-Trimethylbenzene	15.99	105	32035	0.090 ppbv	90
74) 1,2,4-Trimethylbenzene	16.75	105	40633	0.105 ppbv #	68

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 17:20

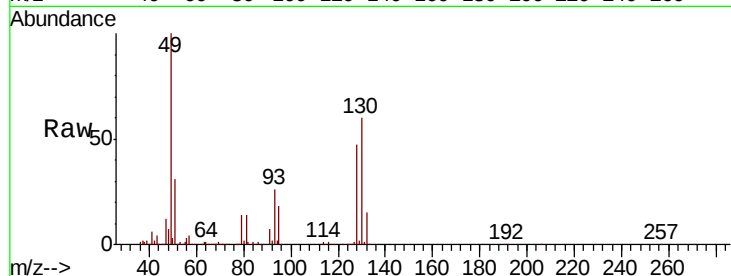
Tot Ion: 49 Resp: 1303271

Ion Ratio Lower Upper

49 100

128 48.5 23.3 69.8

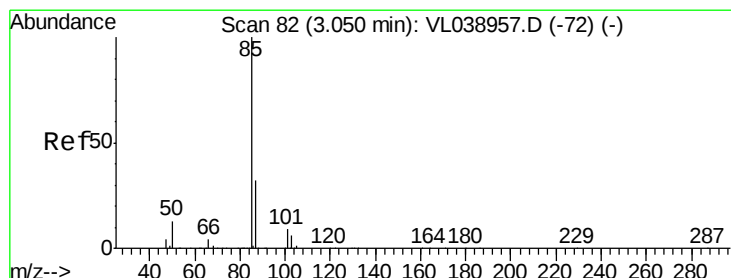
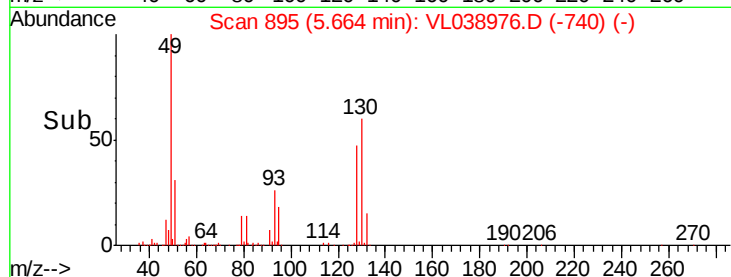
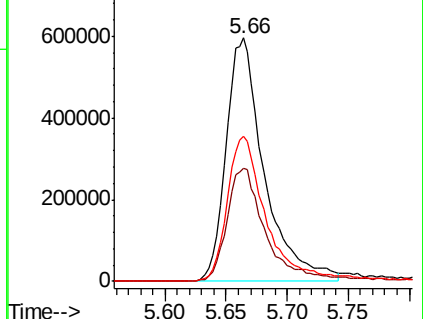
130 62.0 29.8 89.3



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: 0.141 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.00 min

Lab File: VL038976.D

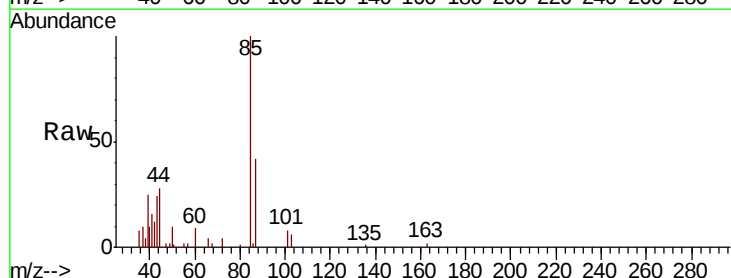
Acq: 5 May 2022 17:20

Tgt Ion: 85 Resp: 28871

Ion Ratio Lower Upper

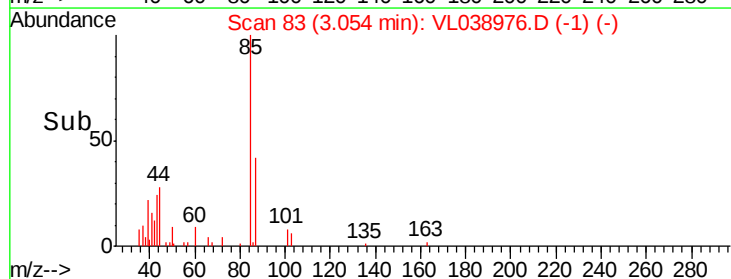
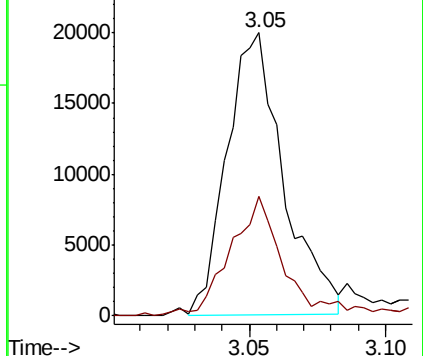
85 100

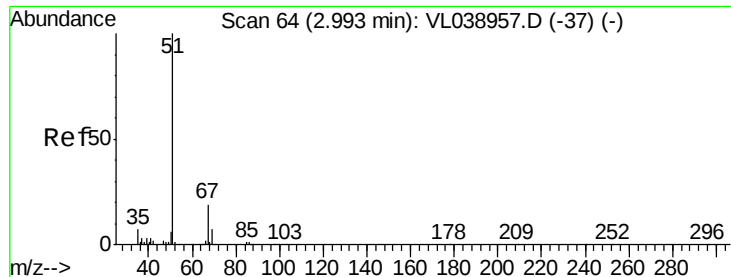
87 41.4 25.7 38.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.065 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

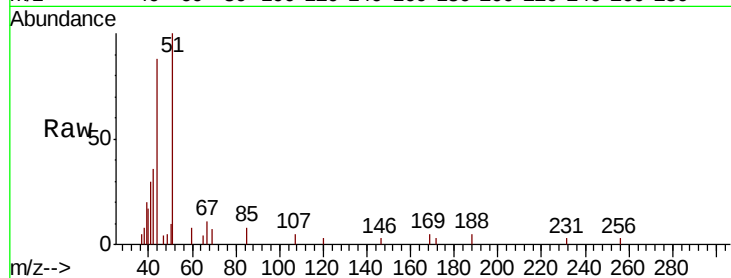
Acq: 5 May 2022 17:20

Tot Ion: 51 Resp: 10556

Ion Ratio Lower Upper

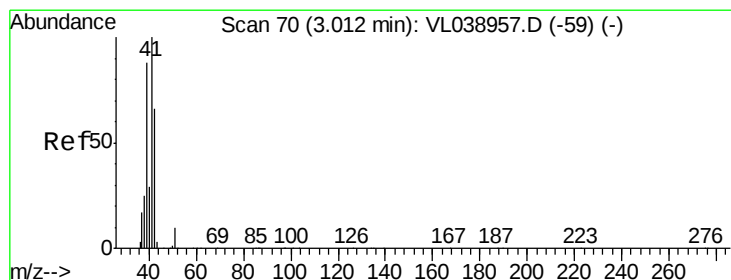
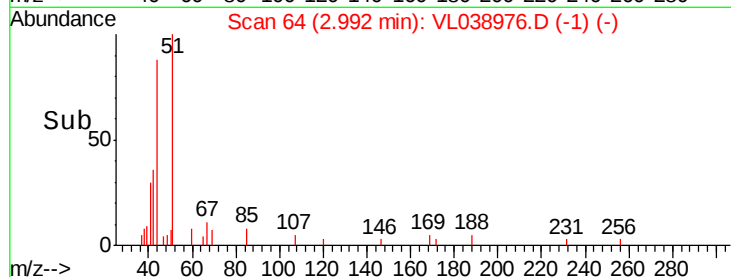
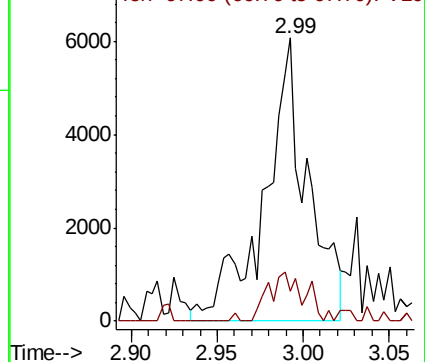
51 100

67 16.4 15.8 23.8



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.851 ppbv

RT: 3.02 min Scan# 74

Delta R.T. 0.01 min

Lab File: VL038976.D

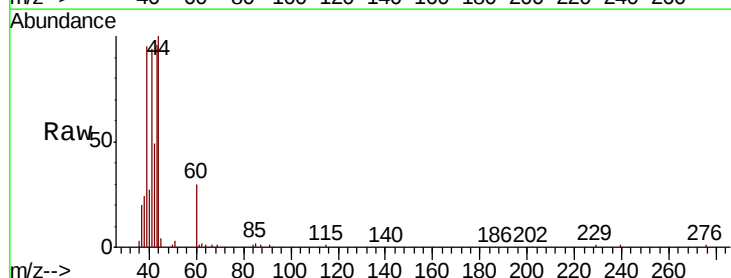
Acq: 5 May 2022 17:20

Tgt Ion: 41 Resp: 60101

Ion Ratio Lower Upper

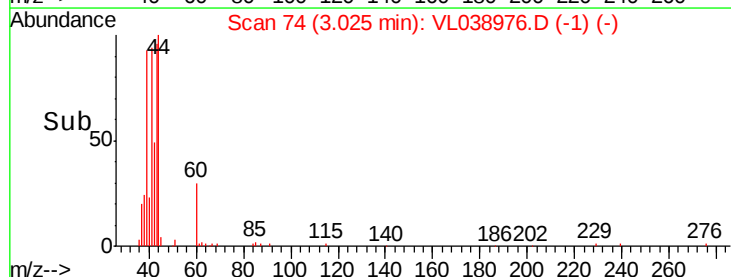
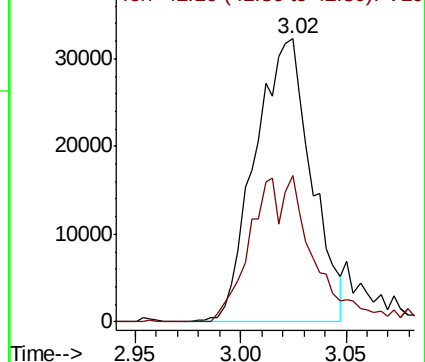
41 100

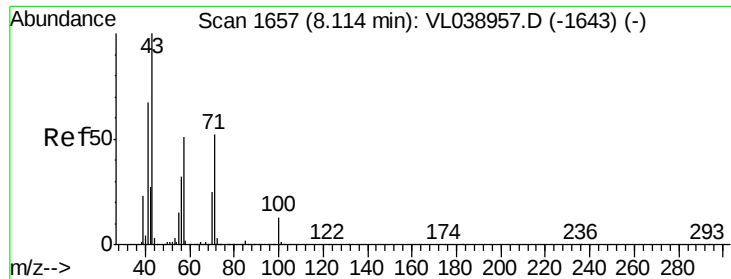
42 57.4 58.3 87.5#



Abundance Ion 41.10 (40.80 to 41.80): VL0

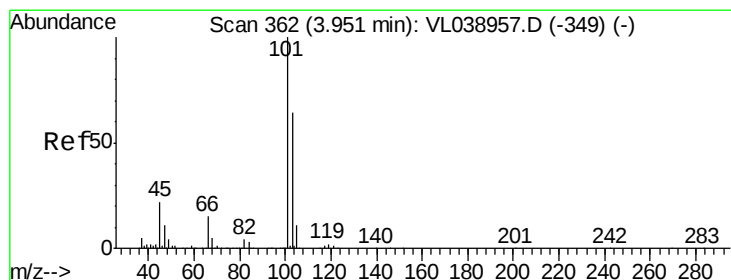
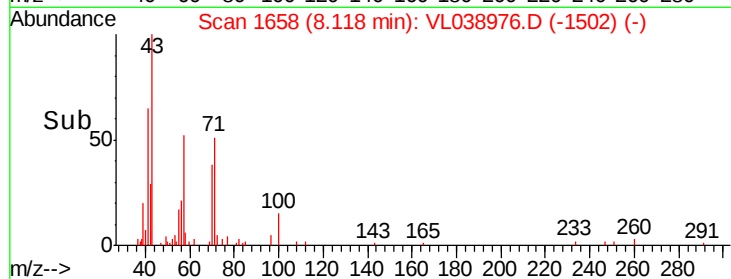
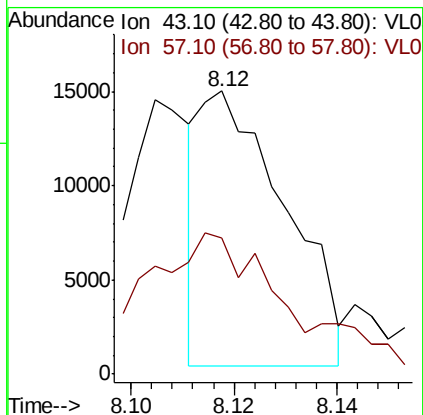
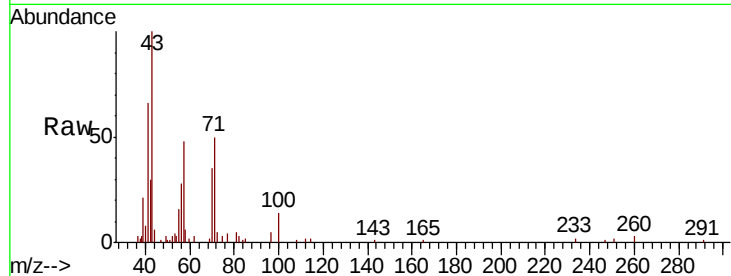
Ion 42.10 (41.80 to 42.80): VL0





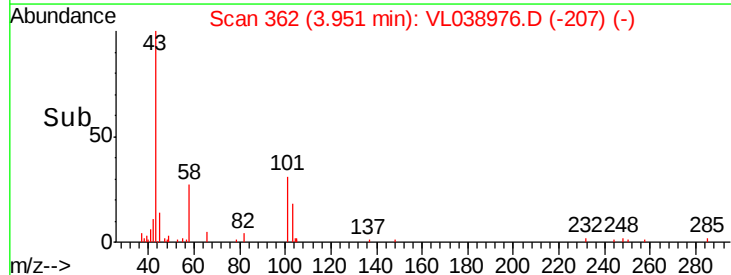
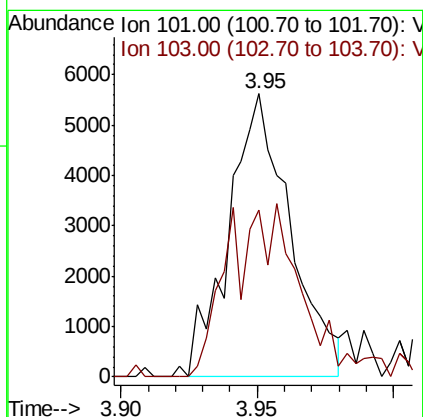
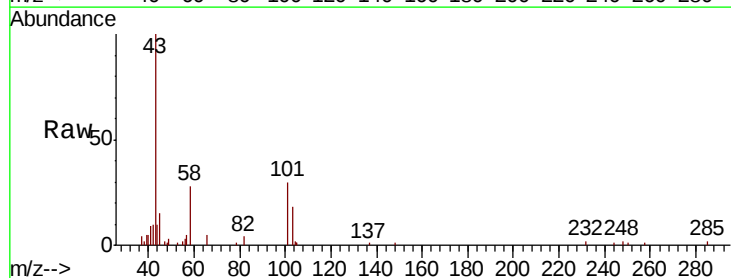
#10
 Heptane
 Concen: 0.096 ppbv
 RT: 8.12
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 17:20

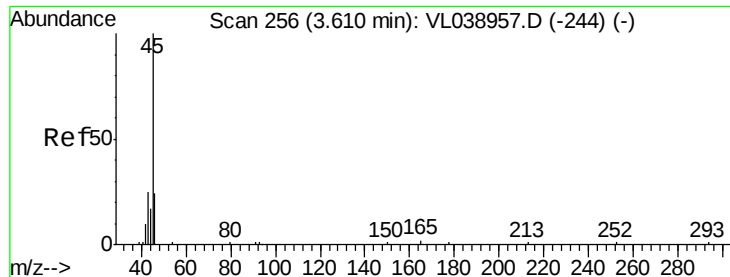
Tot Ion: 43 Resp: 16615
 Ion Ratio Lower Upper
 43 100
 57 99.1 40.5 60.7#



#11
 Trichlorofluoromethane
 Concen: 0.050 ppbv
 RT: 3.95 min Scan# 362
 Delta R.T. -0.00 min
 Lab File: VL038976.D
 Acq: 5 May 2022 17:20

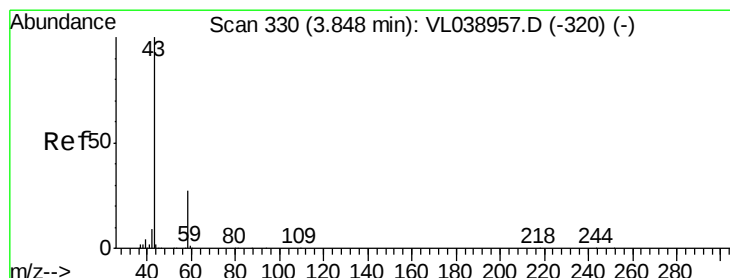
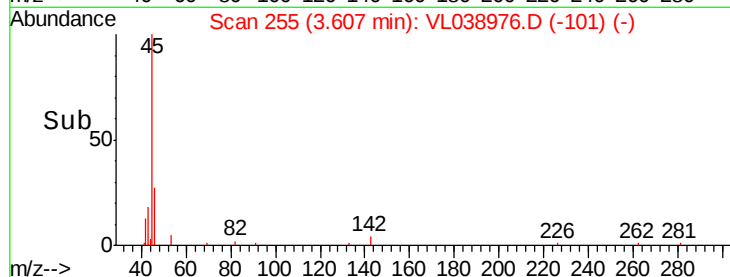
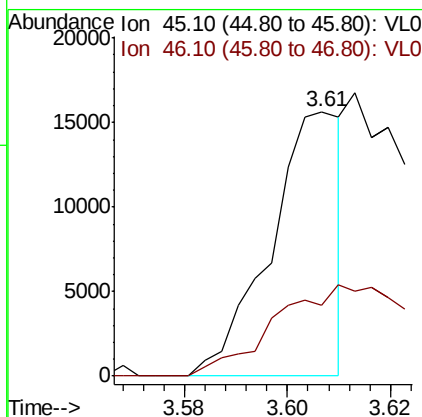
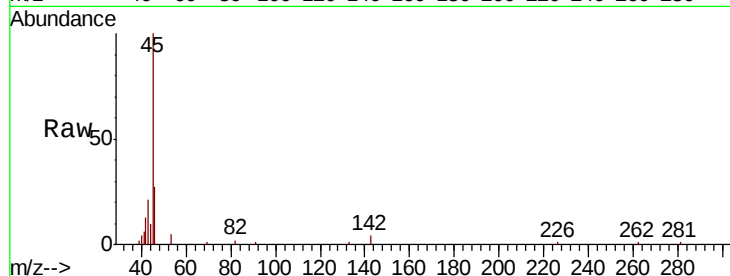
Tgt Ion:101 Resp: 8779
 Ion Ratio Lower Upper
 101 100
 103 59.1 51.5 77.3





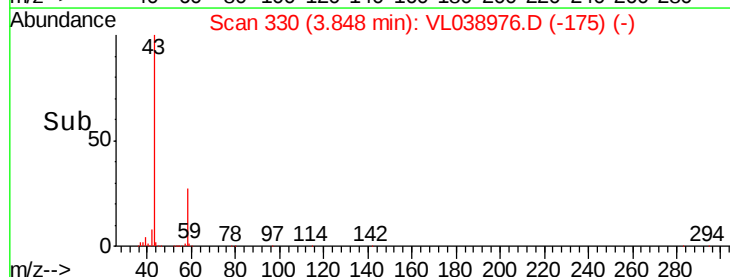
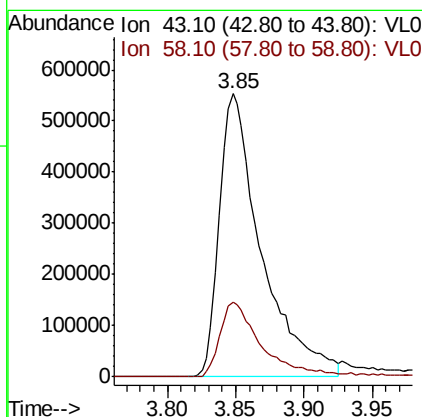
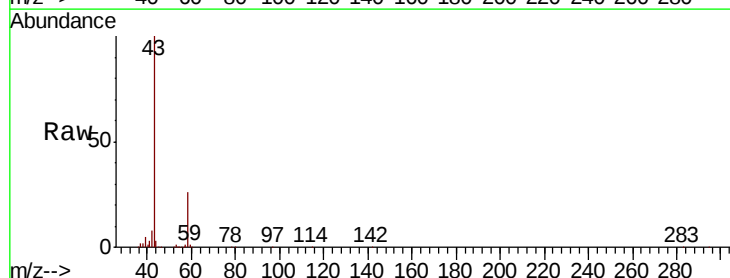
#13
Ethanol
Concen: 2.723 ppbv
RT: 3.61
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 5 May 2022 17:20

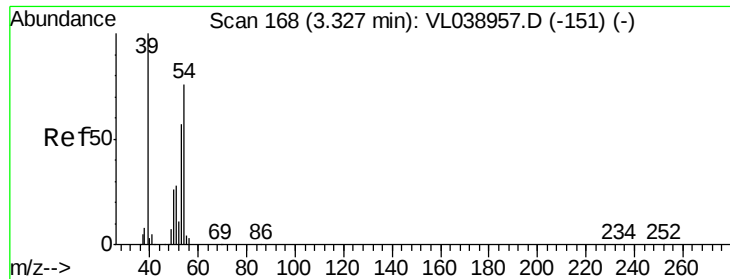
Tot Ion: 45 Resp: 15016
Ion Ratio Lower Upper
45 100
46 109.0 18.0 72.2#



#15
Acetone
Concen: 9.624 ppbv
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL038976.D
Acq: 5 May 2022 17:20

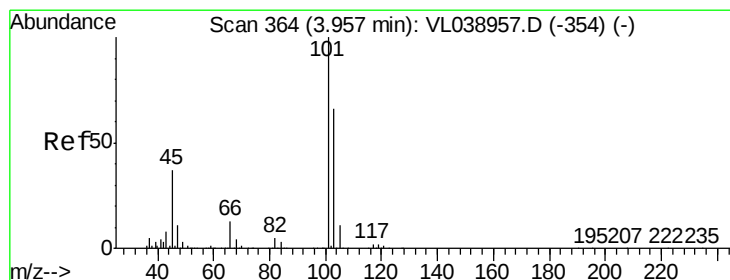
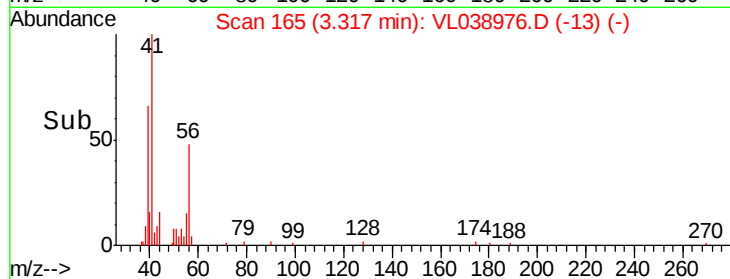
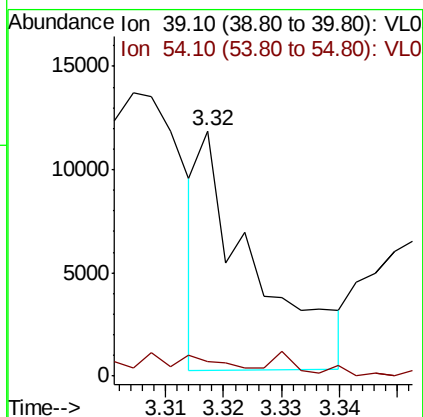
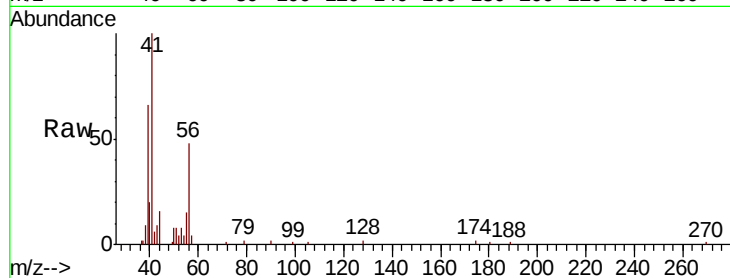
Tgt Ion: 43 Resp: 1183105
Ion Ratio Lower Upper
43 100
58 27.7 21.3 31.9





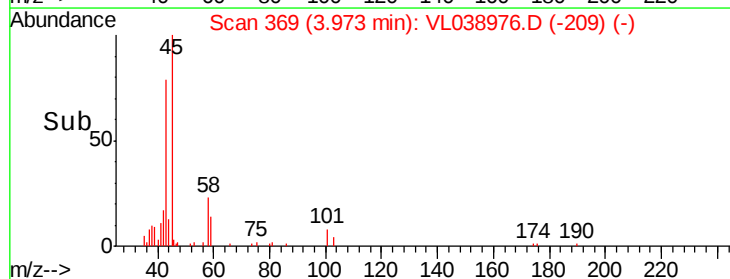
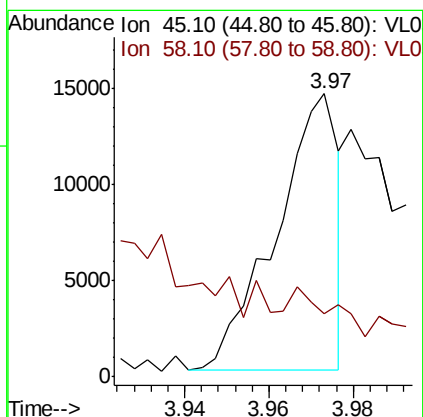
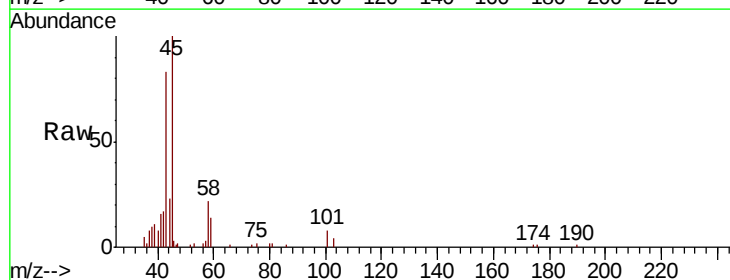
#16
1,3-Butadiene
Concen: 0.107 ppbv
RT: 3.32 Instrument :
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 5 May 2022 17:20

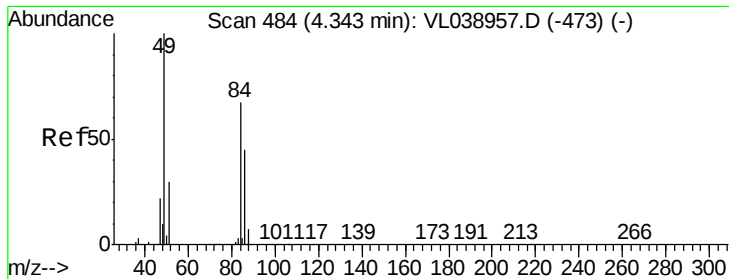
Tot Ion: 39 Resp: 7543
Ion Ratio Lower Upper
39 100
54 21.8 65.2 97.8#



#19
Isopropyl Alcohol
Concen: 0.251 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.02 min
Lab File: VL038976.D
Acq: 5 May 2022 17:20

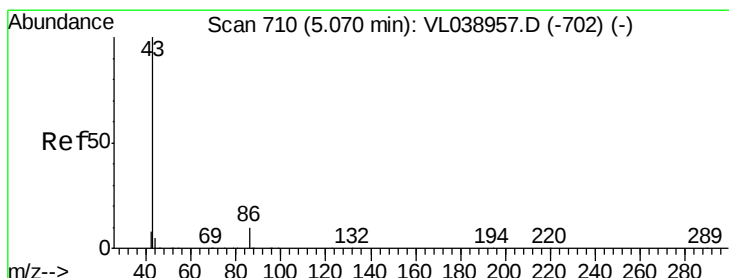
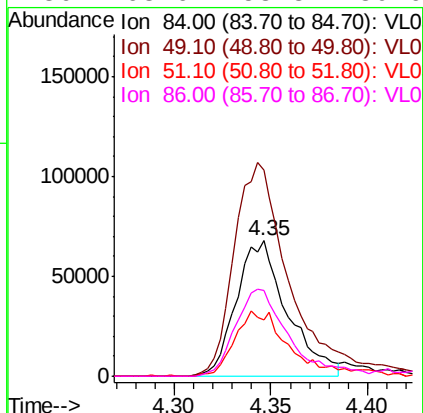
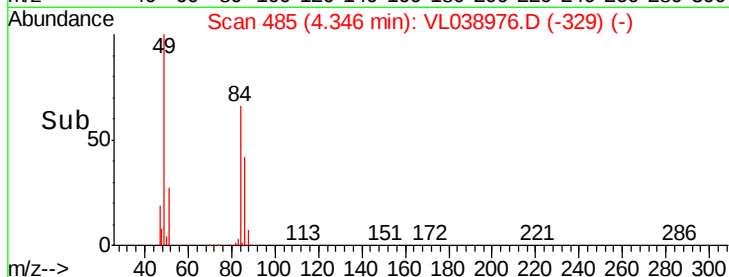
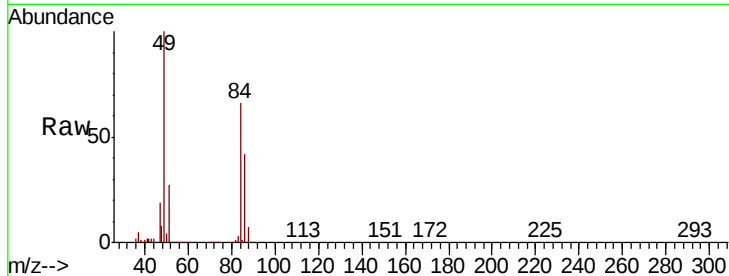
Tgt Ion: 45 Resp: 14650
Ion Ratio Lower Upper
45 100
58 0.0 1.4 2.2#





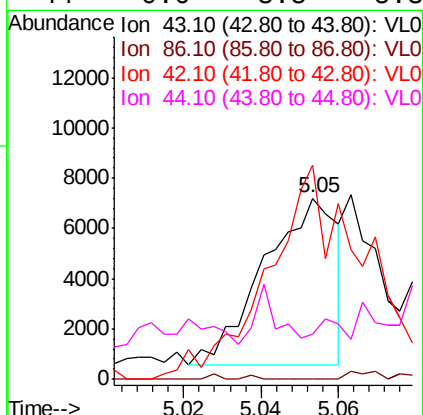
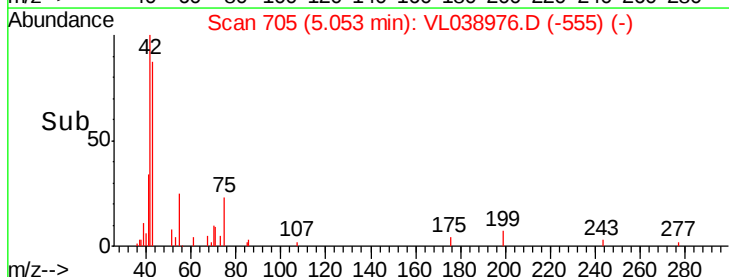
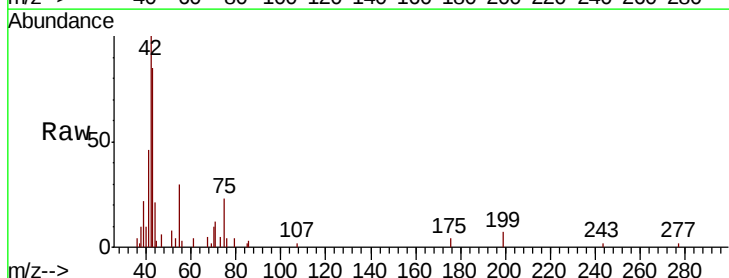
#20
Methvlene Chloride
Concen: 2.690 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 5 May 2022 17:20

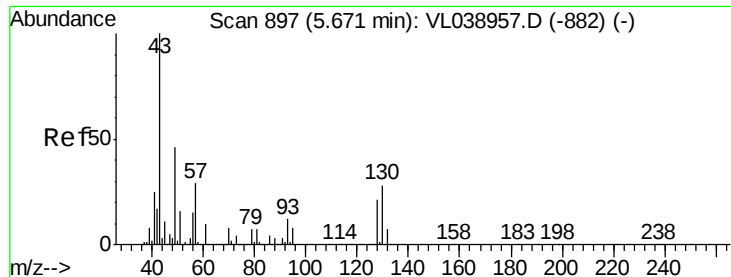
Tot Ion:	84	Resp:	124655
Ion	Ratio	Lower	Upper
84	100		
49	151.7	119.9	179.9
51	41.0	35.7	53.5
86	63.6	53.8	80.6



#23
Vinyl Acetate
Concen: 0.090 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.02 min
Lab File: VL038976.D
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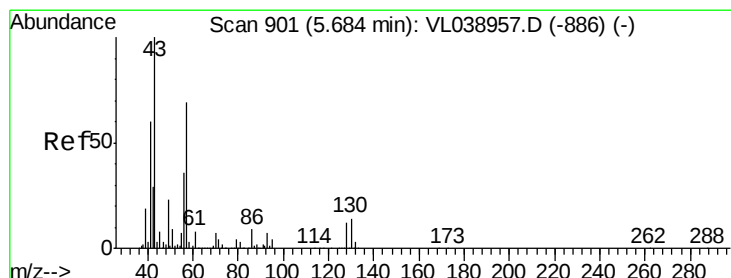
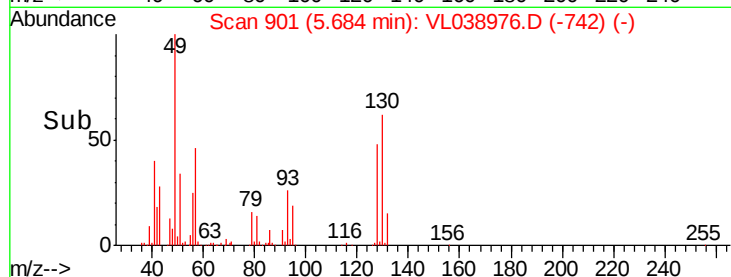
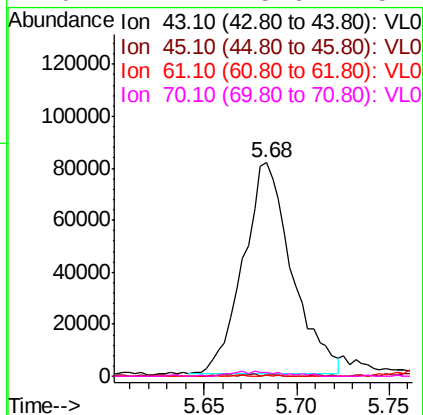
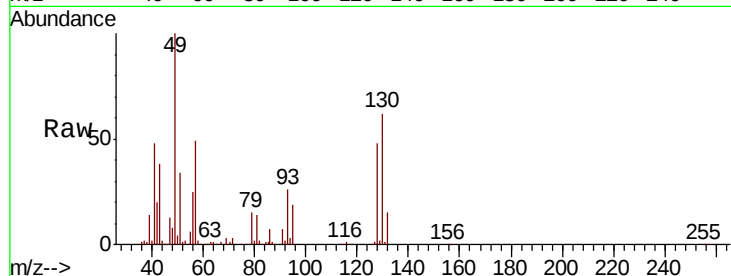
Tgt Ion:	43	Resp:	8706
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.6	9.8#
42	110.6	8.1	12.1#
44	0.0	3.5	5.3#





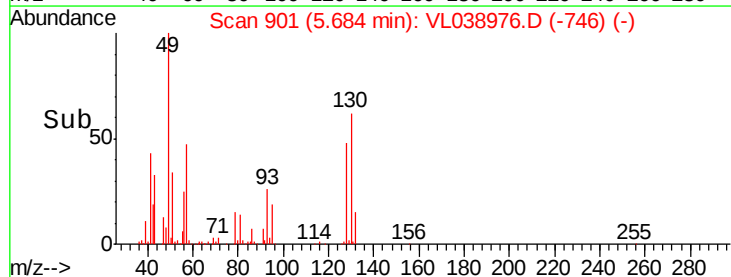
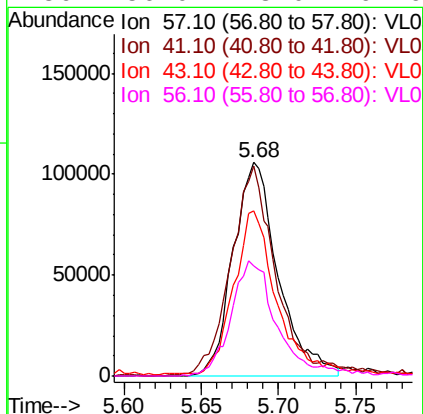
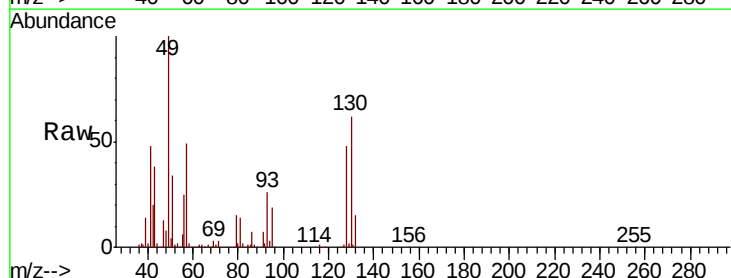
#25
Ethyl Acetate
Concen: 0.504 ppbv
RT: 5.68 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 5 May 2022 17:20

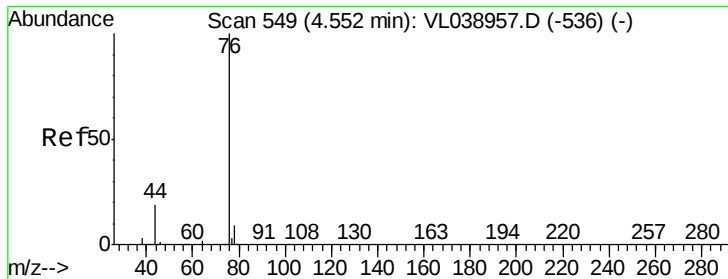
Tot Ion:	43	Resp:	148323
Ion	Ratio	Lower	Upper
43	100		
45	0.8	8.1	12.1#
61	0.4	7.8	11.6#
70	2.7	5.6	8.4#



#26
Hexane
Concen: 1.641 ppbv
RT: 5.68 min Scan# 901
Delta R.T.: -0.00 min
Lab File: VL038976.D
Acq: 5 May 2022 17:20

Tgt Ion:	57	Resp:	214546
Ion	Ratio	Lower	Upper
57	100		
41	101.9	75.2	112.8
43	73.2	190.8	286.2#
56	56.0	43.0	64.6





#27

Carbon Disulfide

Concen: 0.388 ppbv

RT: 4.55 Instrument:

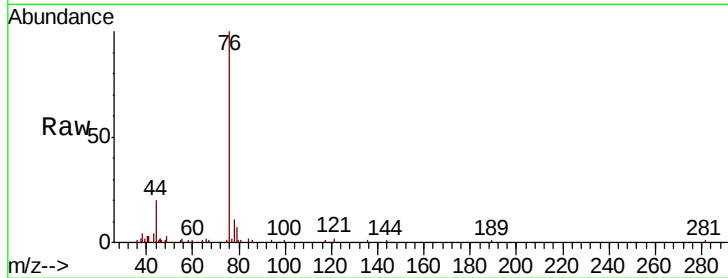
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

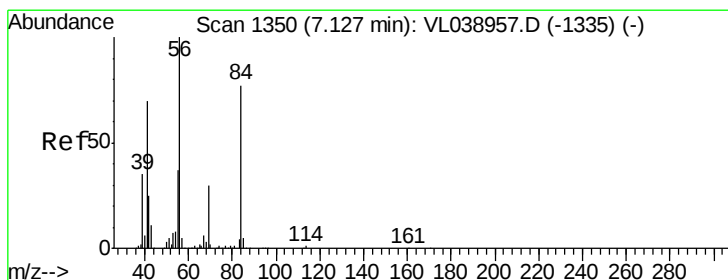
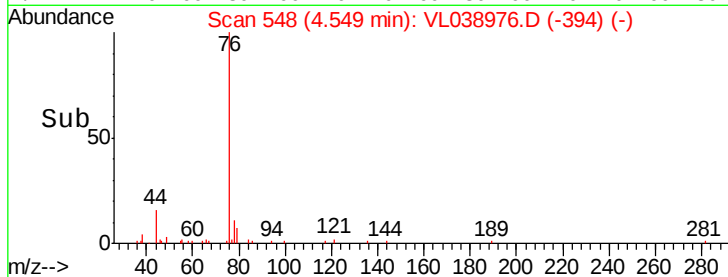
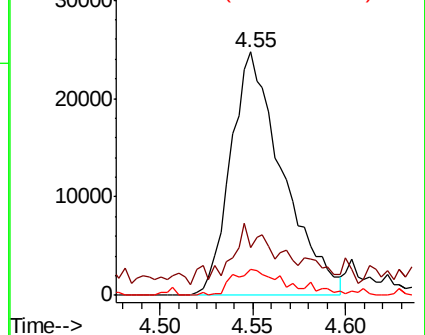
Acq: 5 May 2022 17:20

Tot Ion: 76 Resp: 48249

Ion	Ratio	Lower	Upper
76	100		
44	30.9	15.3	22.9#
78	11.8	8.2	12.2



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



#30

Cyclohexane

Concen: 0.052 ppbv

RT: 7.12 min Scan# 1348

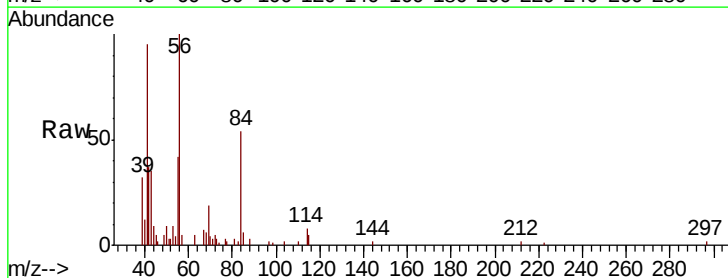
Delta R.T. -0.01 min

Lab File: VL038976.D

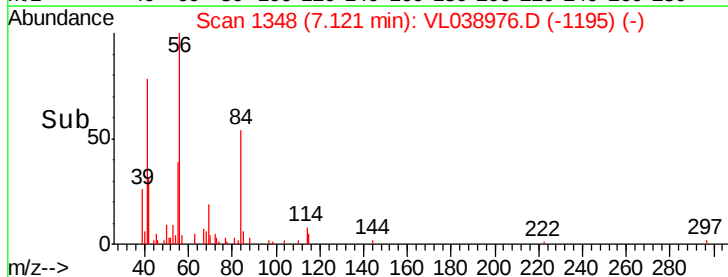
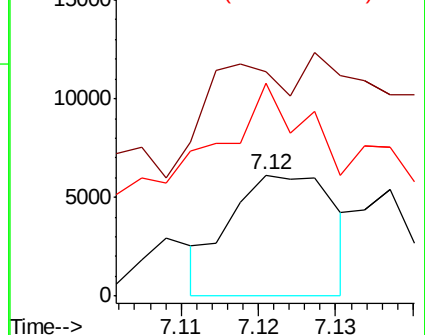
Acq: 5 May 2022 17:20

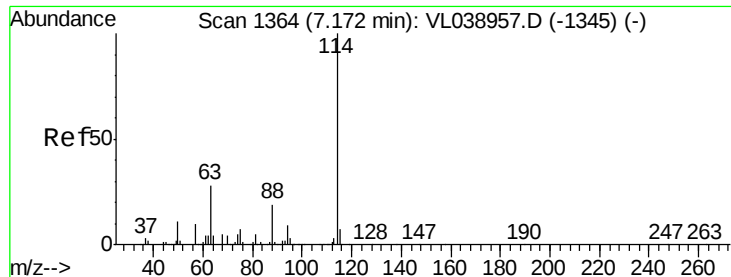
Tgt Ion: 84 Resp: 5738

Ion	Ratio	Lower	Upper
84	100		
56	0.0	115.3	172.9#
41	344.8	72.0	108.0#



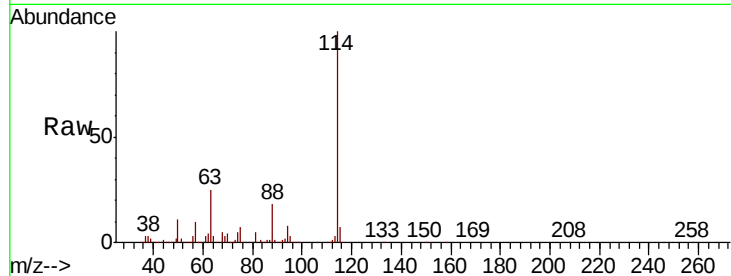
Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0



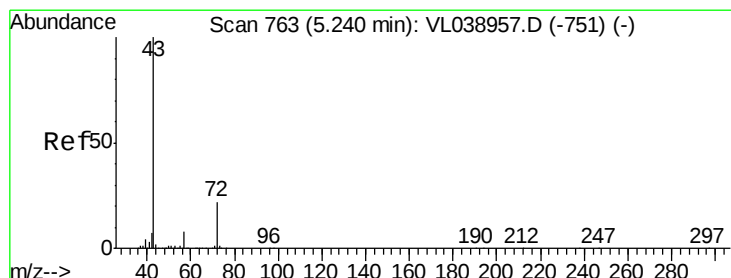
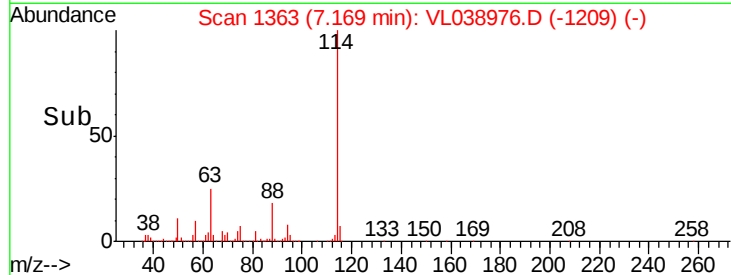
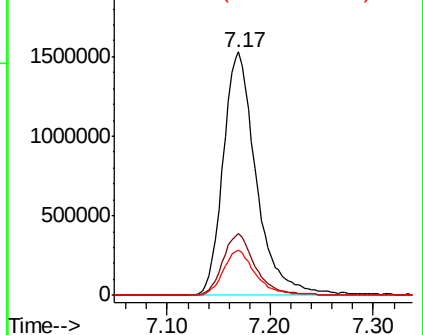


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 17:20

Tot Ion:114 Resp: 3408220
 Ion Ratio Lower Upper
 114 100
 63 25.4 22.6 33.8
 88 18.4 15.4 23.0

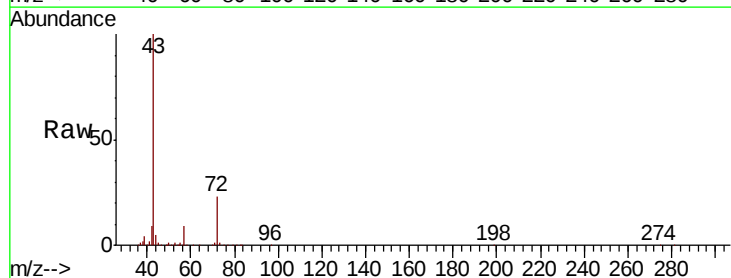


Abundance Ion 114.10 (113.80 to 114.80): V
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

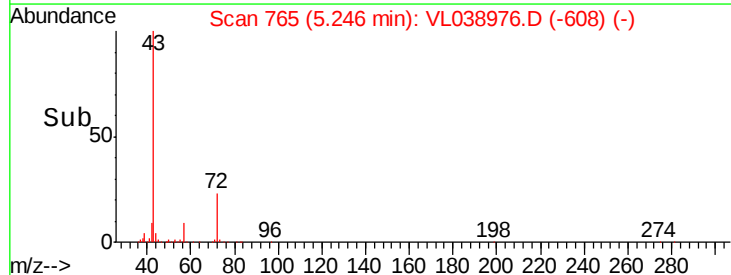
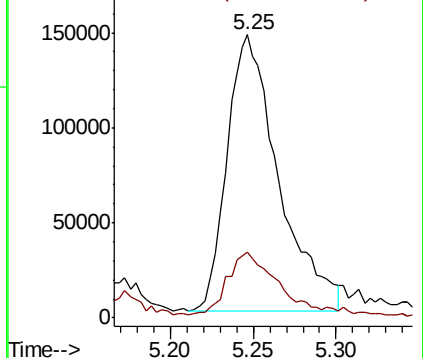


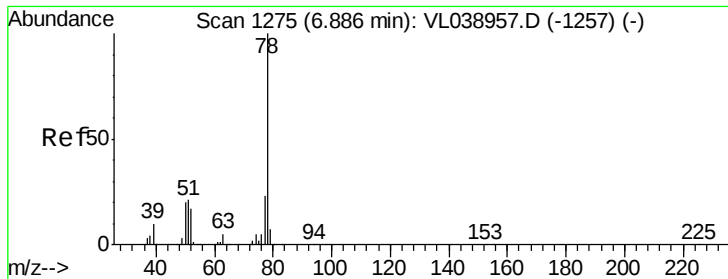
#34
 2-Butanone
 Concen: 1.796 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.01 min
 Lab File: VL038976.D
 Acq: 5 May 2022 17:20

Tgt Ion: 43 Resp: 312289
 Ion Ratio Lower Upper
 43 100
 72 28.0 17.8 26.6#



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





#36

Benzene

Concen: 0.049 ppbv

RT: 6.89 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 17:20

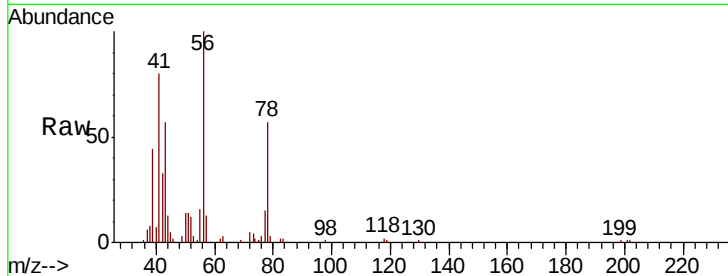
Tot Ion: 78 Resp: 14320

Ion Ratio Lower Upper

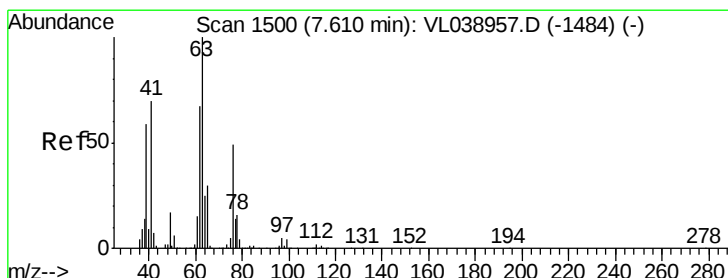
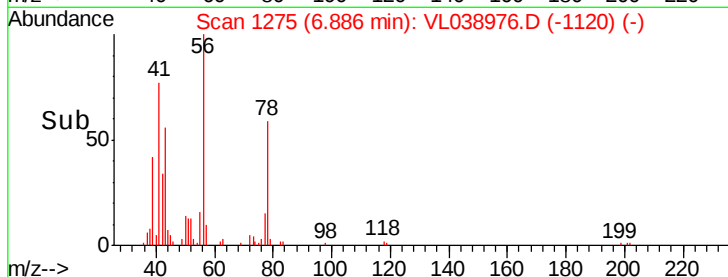
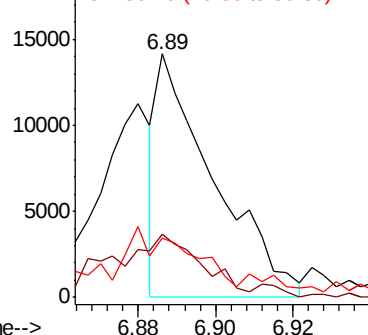
78 100

77 27.7 18.6 28.0

50 21.3 15.6 23.4



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: 7.282 ppbv

RT: 7.17 min Scan# 1363

Delta R.T. -0.44 min

Lab File: VL038976.D

Acq: 5 May 2022 17:20

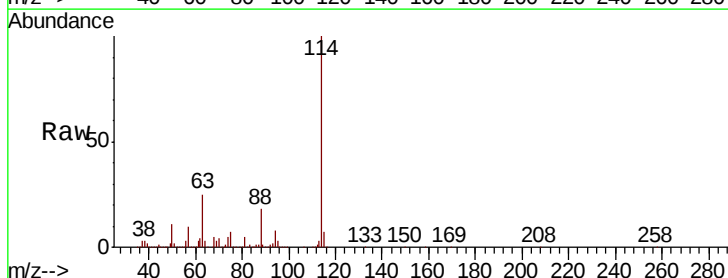
Tgt Ion: 63 Resp: 826401

Ion Ratio Lower Upper

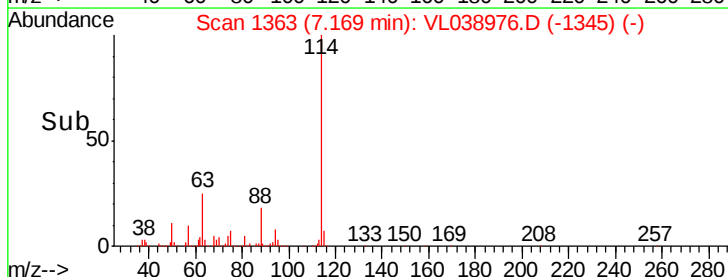
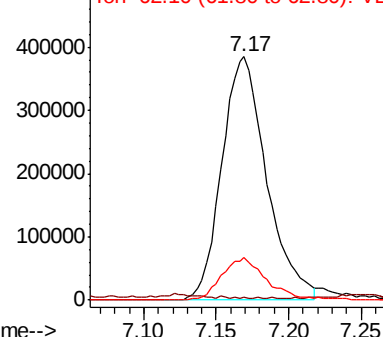
63 100

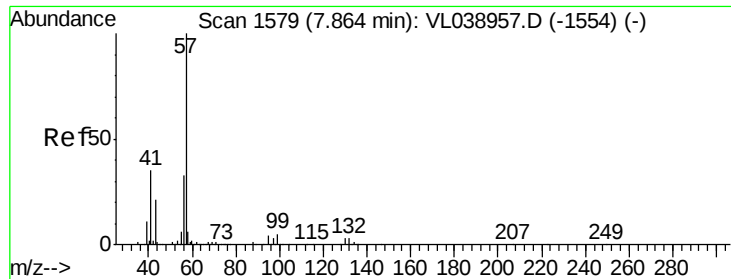
41 0.0 55.9 83.9#

62 17.3 53.8 80.6#



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





#44

2,2,4-Trimethylpentane

Concen: 0.067 ppbv

RT: 7.86 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 17:20

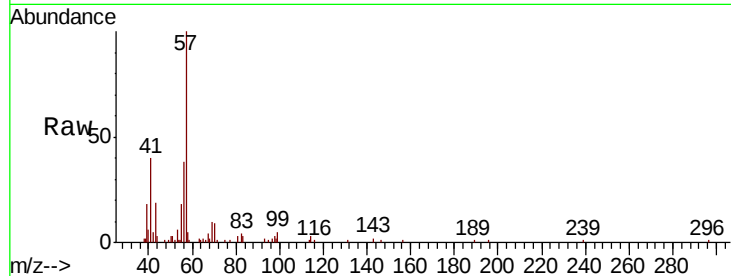
Tot Ion: 57 Resp: 34409

Ion Ratio Lower Upper

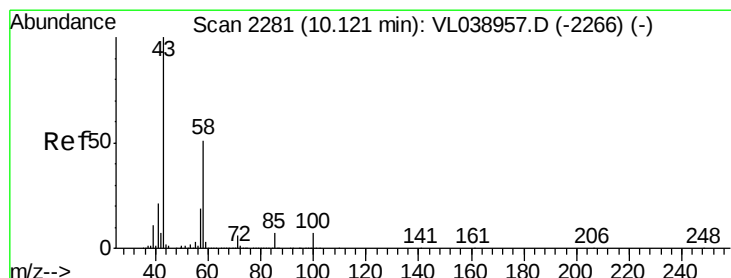
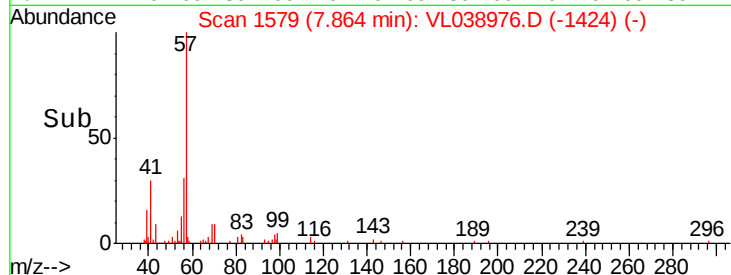
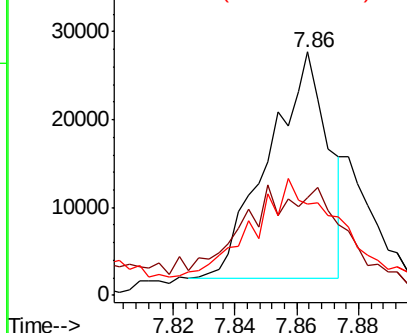
57 100

41 89.7 26.3 39.5#

56 88.7 24.6 37.0#



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



#51

2-Hexanone

Concen: 0.429 ppbv

RT: 10.13 min Scan# 2284

Delta R.T. 0.01 min

Lab File: VL038976.D

Acq: 5 May 2022 17:20

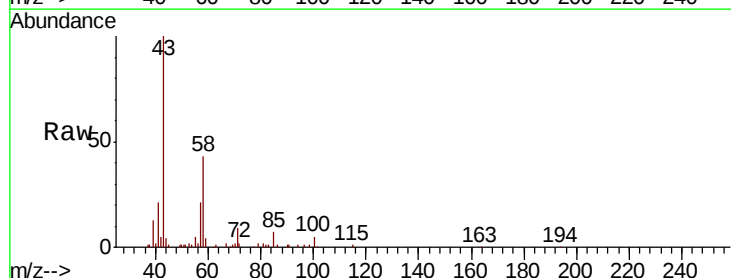
Tgt Ion: 43 Resp: 95458

Ion Ratio Lower Upper

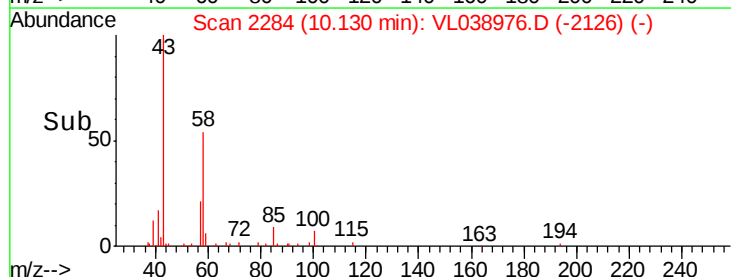
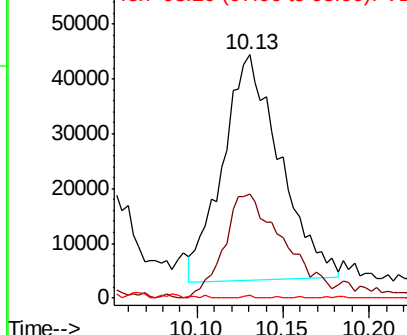
43 100

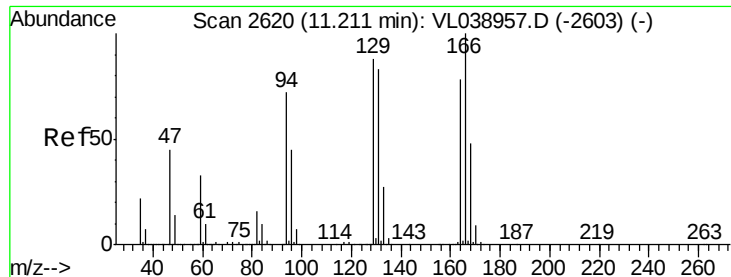
58 53.9 39.3 58.9

98 0.2 0.2 0.2



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 58.10 (57.80 to 58.80): VL0
Ion 98.20 (97.90 to 98.90): VL0





#52

Tetrachloroethene

Concen: 1.414 ppbv

RT: 11.21

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 5 May 2022 17:20

Tot Ion:164 Resp: 147392

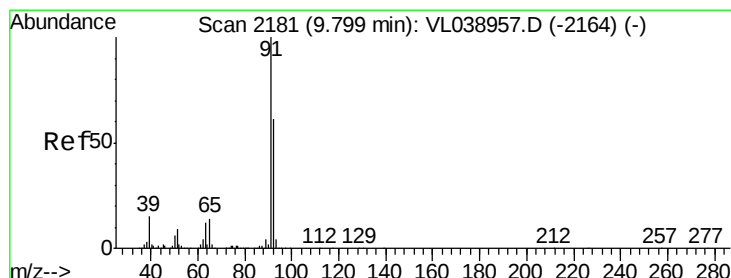
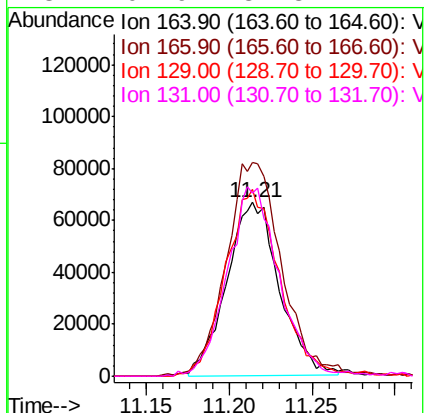
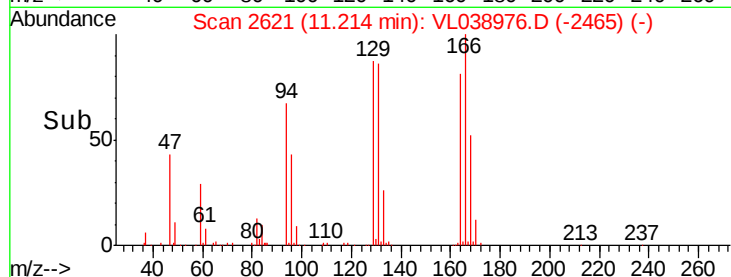
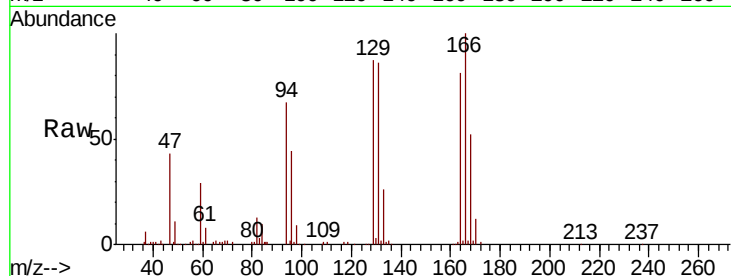
Ion Ratio Lower Upper

164 100

166 122.0 102.5 153.7

129 107.1 90.1 135.1

131 104.9 84.8 127.2



#53

Toluene

Concen: 0.276 ppbv

RT: 9.80 min Scan# 2180

Delta R.T. -0.00 min

Lab File: VL038976.D

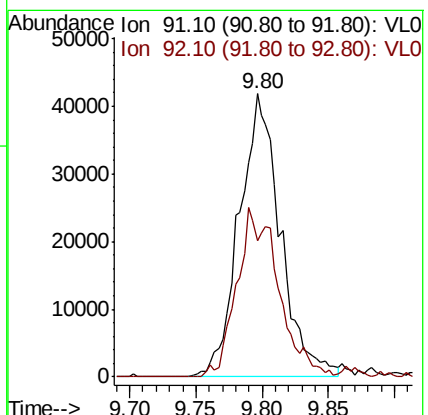
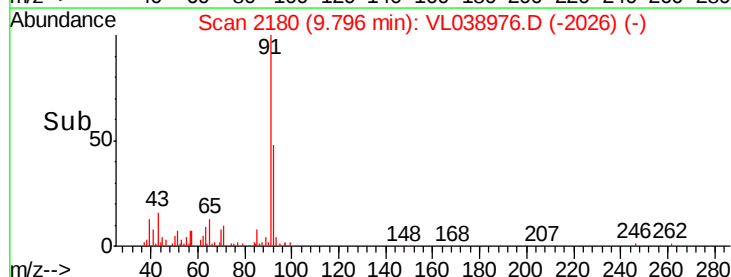
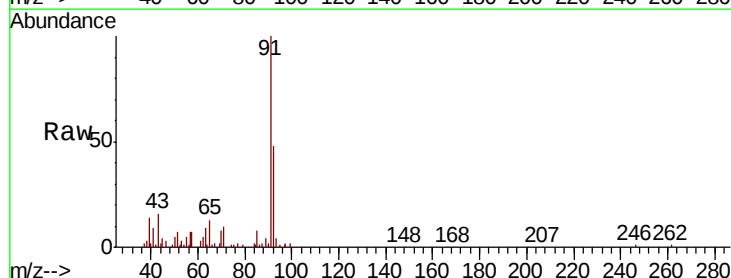
Acq: 5 May 2022 17:20

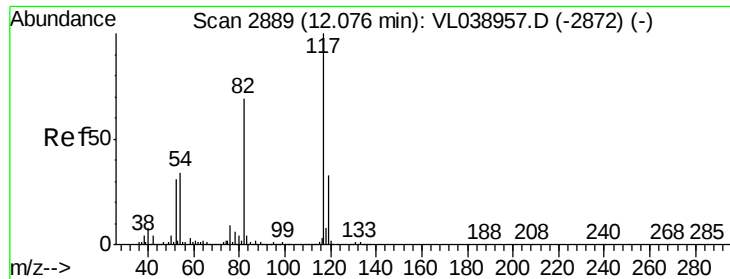
Tgt Ion: 91 Resp: 90256

Ion Ratio Lower Upper

91 100

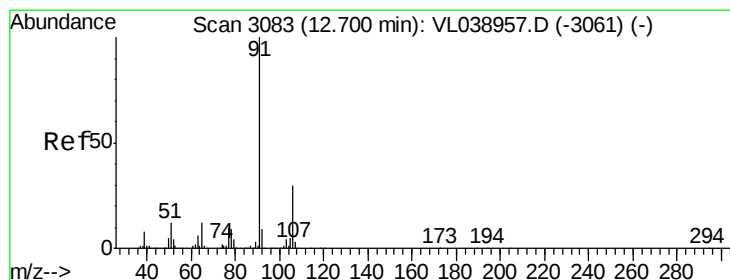
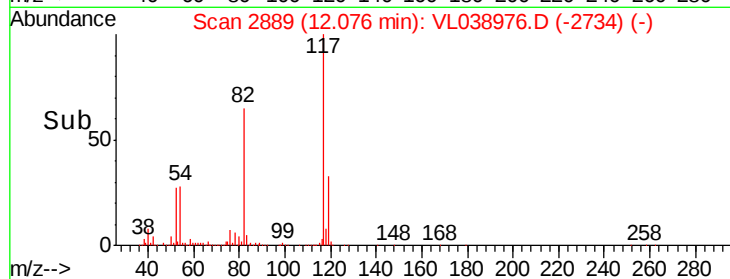
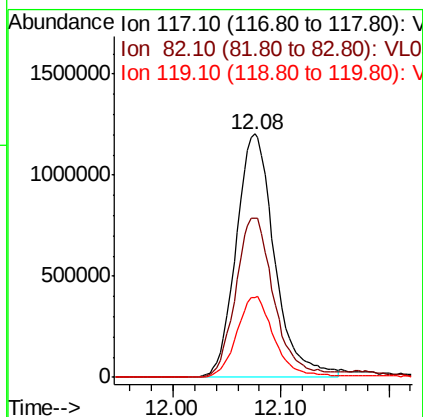
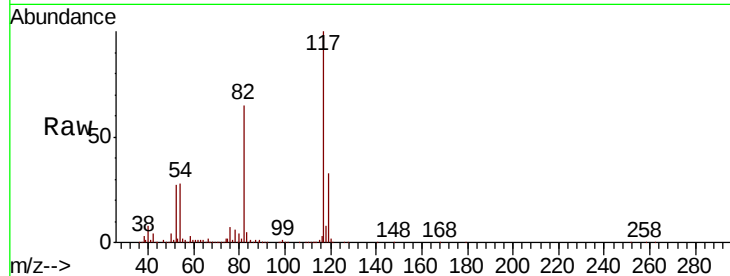
92 60.5 48.2 72.2





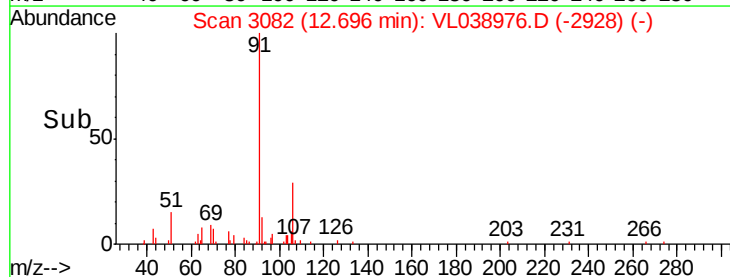
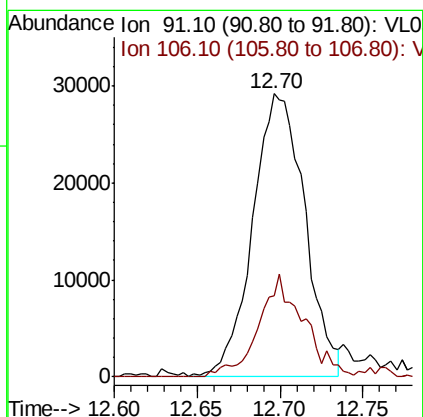
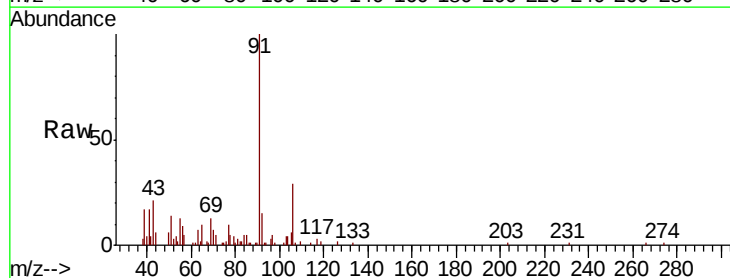
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 5 May 2022 17:20

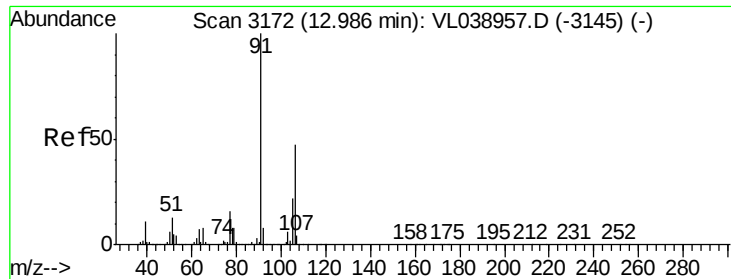
Tot Ion: 117 Resp: 2986947
Ion Ratio Lower Upper
117 100
82 65.6 57.0 85.6
119 33.7 27.2 40.8



#58
Ethyl Benzene
Concen: 0.149 ppbv
RT: 12.70 min Scan# 3082
Delta R.T.: -0.00 min
Lab File: VL038976.D
Acq: 5 May 2022 17:20

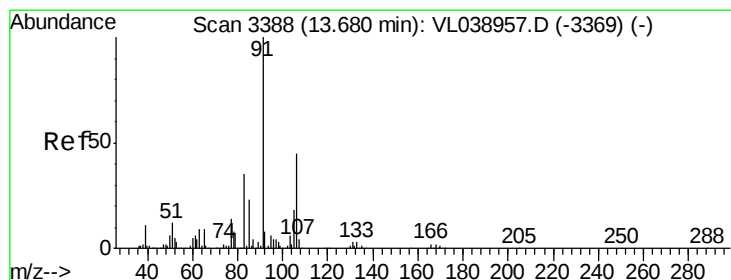
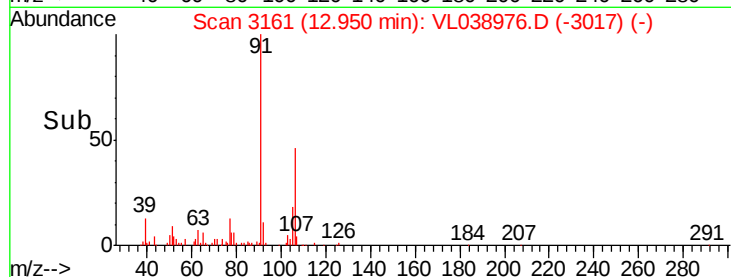
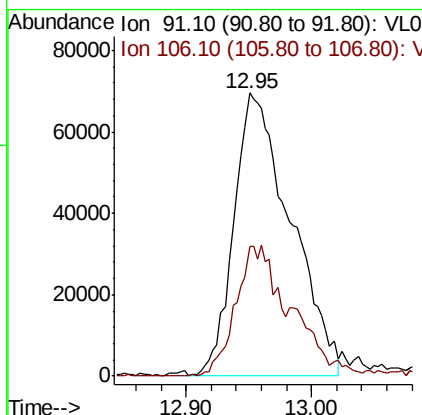
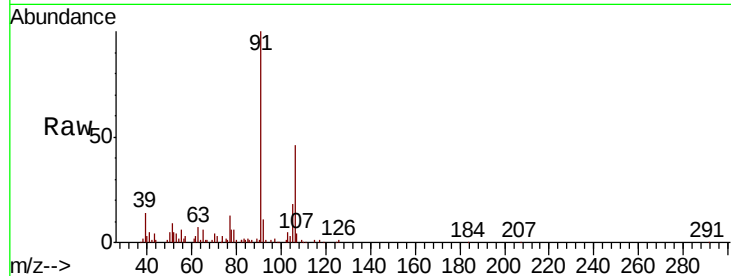
Tgt Ion: 91 Resp: 63839
Ion Ratio Lower Upper
91 100
106 28.6 24.2 36.4





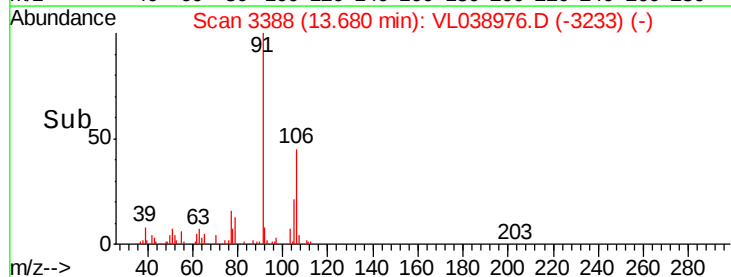
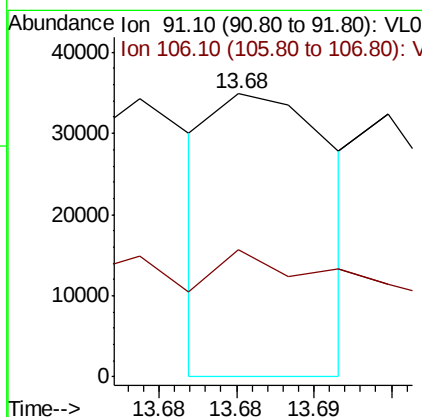
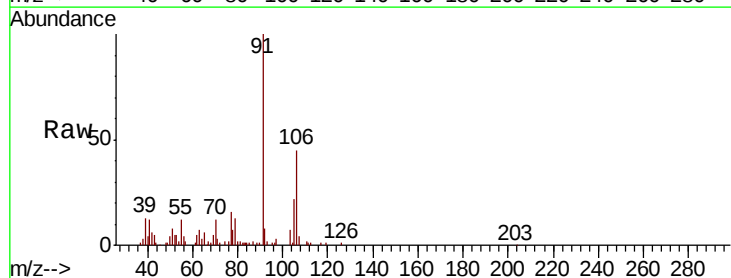
#59
m/p-Xylene
Concen: 0.591 ppbv
RT: 12.95
Delta R.T. MSVOA_L
Lab File: ClientSampled :
Acq: 5 May 2022 17:20

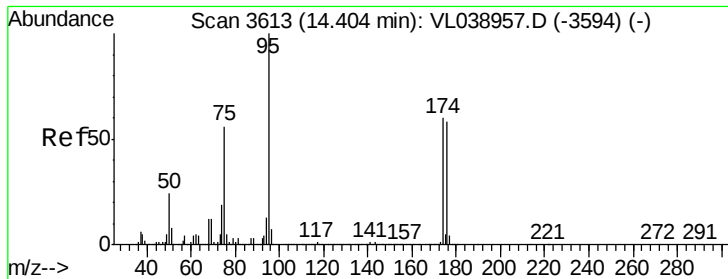
Tot Ion: 91 Resp: 216827
Ion Ratio Lower Upper
91 100
106 46.7 34.6 52.0



#60
o-Xylene
Concen: 0.053 ppbv
RT: 13.68 min Scan# 3388
Delta R.T. -0.00 min
Lab File: VL038976.D
Acq: 5 May 2022 17:20

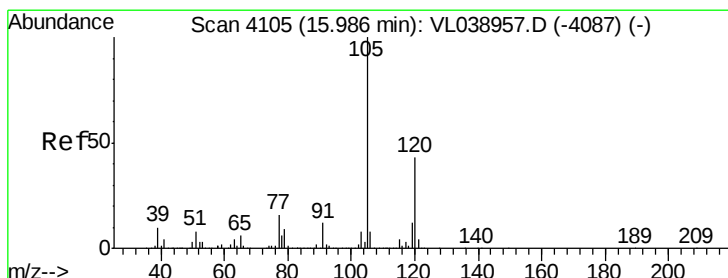
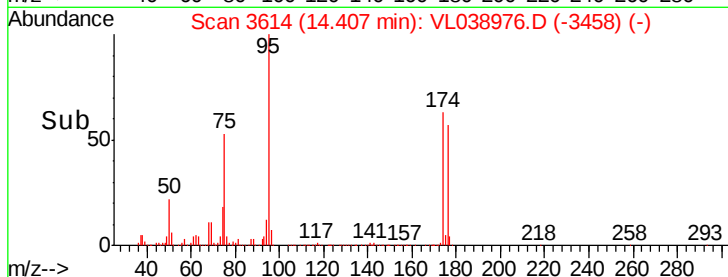
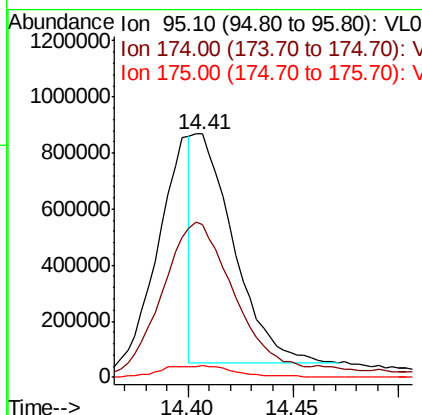
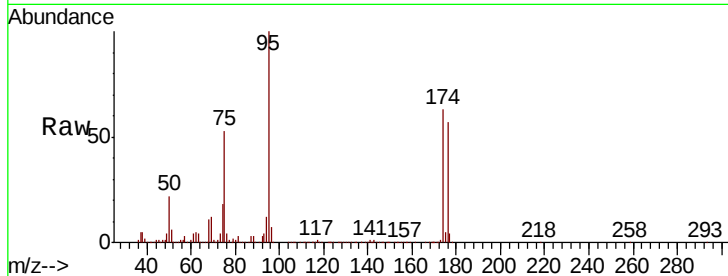
Tgt Ion: 91 Resp: 18452
Ion Ratio Lower Upper
91 100
106 188.5 22.2 66.6#





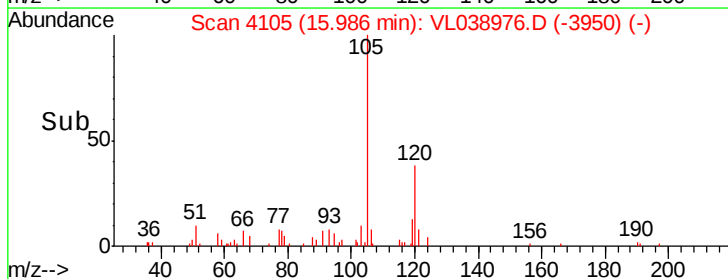
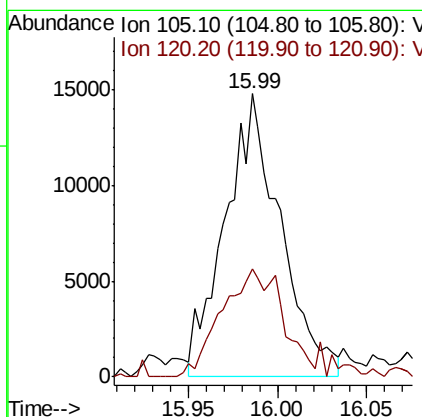
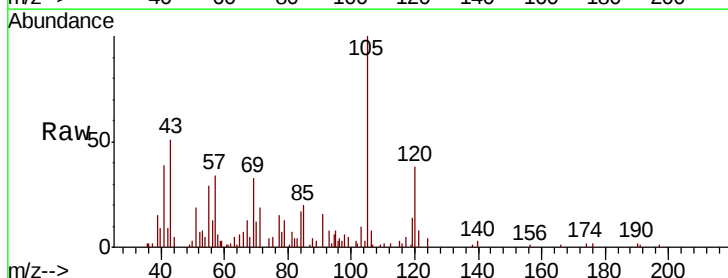
#68
 1-Bromo-4-Fluorobenzene
 Concen: 4.640 ppbv
 RT: 14.41 min
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 17:20

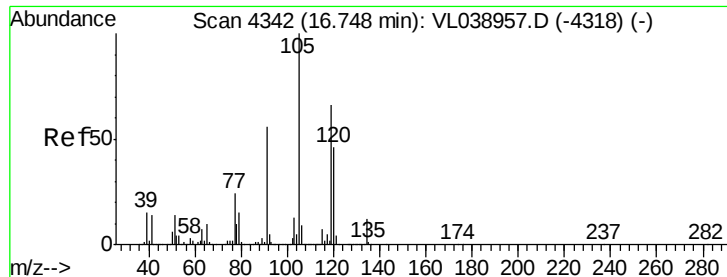
Tot Ion: 95 Resp: 1097673
 Ion Ratio Lower Upper
 95 100
 174 137.1 50.8 76.2#
 175 10.0 3.8 5.6#



#73
 1,3,5-Trimethylbenzene
 Concen: 0.090 ppbv
 RT: 15.99 min Scan# 4105
 Delta R.T. -0.00 min
 Lab File: VL038976.D
 Acq: 5 May 2022 17:20

Tgt Ion:105 Resp: 32035
 Ion Ratio Lower Upper
 105 100
 120 36.4 34.4 51.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.105 ppbv
 RT: 16.75
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 5 May 2022 17:20

Tot Ion:	105	Resp:	40633
Ion Ratio	Lower	Upper	
105	100		
120	42.4	36.9	55.3
91	9.8	45.0	67.4#
77	20.7	19.2	28.8

