

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022222\
 Data File : VL038402.D
 Acq On : 23 Feb 2022 00:05
 Operator : SY/AP
 Sample : N1607-09 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 MP-3DL

Quant Time: Feb 23 07:08:01 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL022222AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 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	892339	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.18	114	2126526	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	1972232	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.41	95	1578375	9.67	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.70%

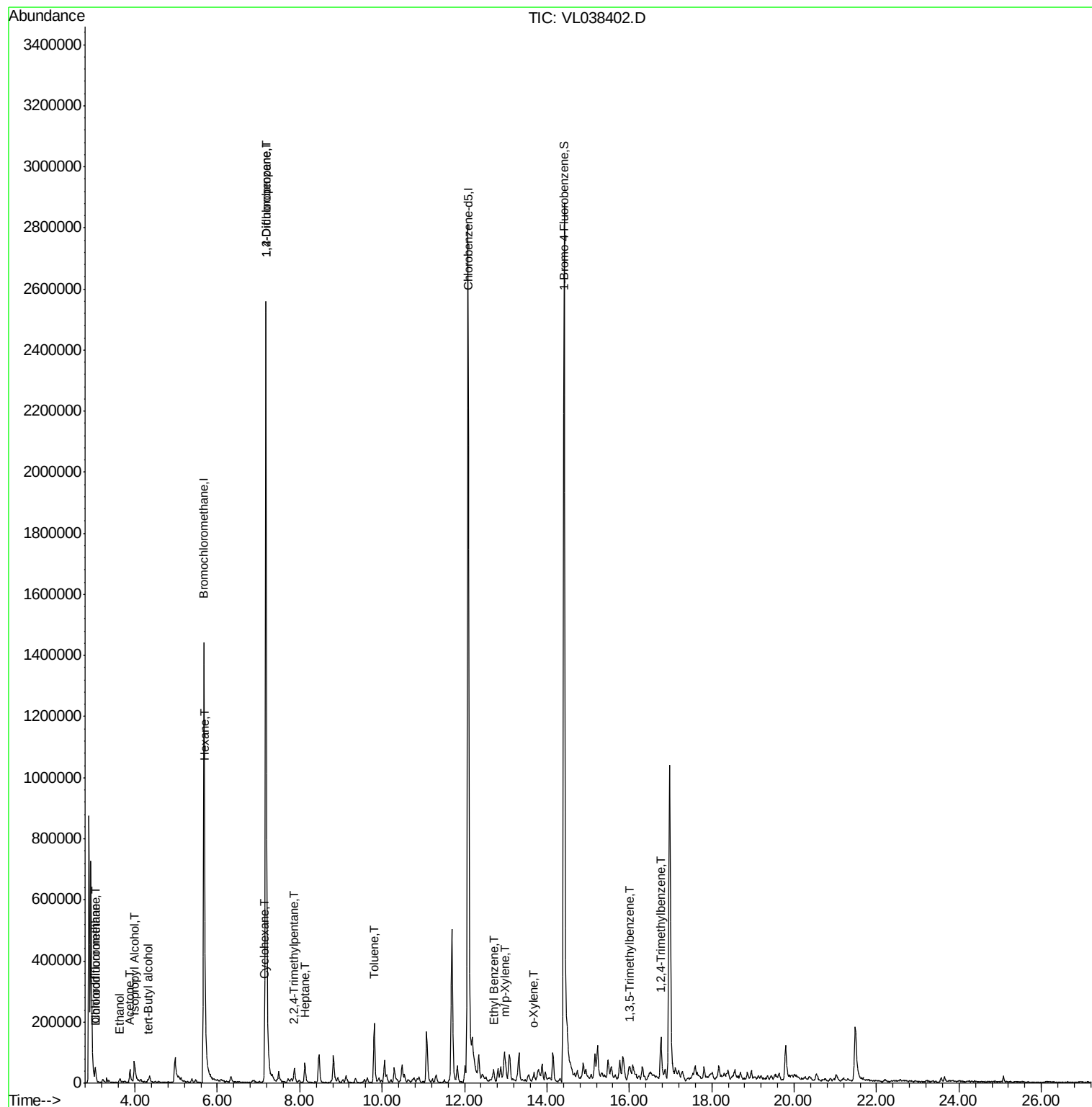
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	6508	0.05	ppbv #	81
3) Chlorodifluoromethane	3.03	51	16997	0.11	ppbv #	67
10) Heptane	8.12	43	28428	0.22	ppbv	91
13) Ethanol	3.63	45	6711	1.29	ppbv #	31
15) Acetone	3.87	43	21801	0.29	ppbv #	48
17) tert-Butyl alcohol	4.31	59	2712	0.04	ppbv #	72
19) Isopropyl Alcohol	3.99	45	41625	0.95	ppbv #	79
26) Hexane	5.70	57	6651	0.07	ppbv #	1
30) Cyclohexane	7.14	84	2436	0.03	ppbv #	1
39) 1,2-Dichloropropane	7.18	63	566727	7.60	ppbv #	25
44) 2,2,4-Trimethylpentane	7.88	57	12584	0.04	ppbv #	42
53) Toluene	9.81	91	162673	0.80	ppbv	99
58) Ethyl Benzene	12.71	91	21510	0.08	ppbv	99
59) m/p-Xylene	13.00	91	16268	0.07	ppbv #	33
60) o-Xylene	13.69	91	17404	0.08	ppbv	96
73) 1,3,5-Trimethylbenzene	16.00	105	14331	0.07	ppbv	91
74) 1,2,4-Trimethylbenzene	16.76	105	75334	0.33	ppbv #	67

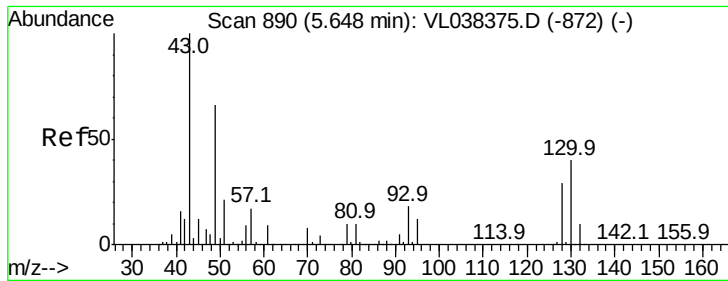
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Feb 2022 00:05

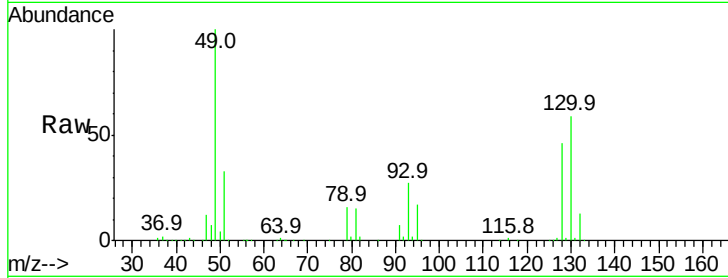
Tgt Ion: 49 Resp: 892339

Ion Ratio Lower Upper

49 100

128 45.7 24.3 72.9

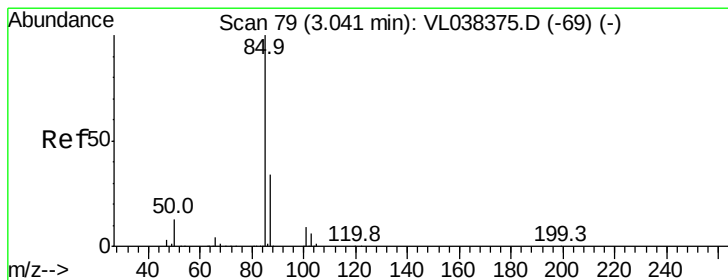
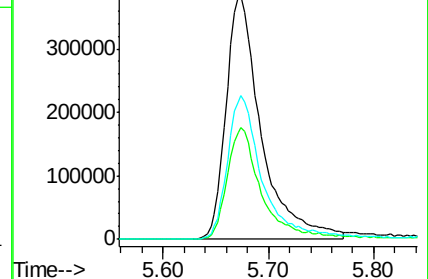
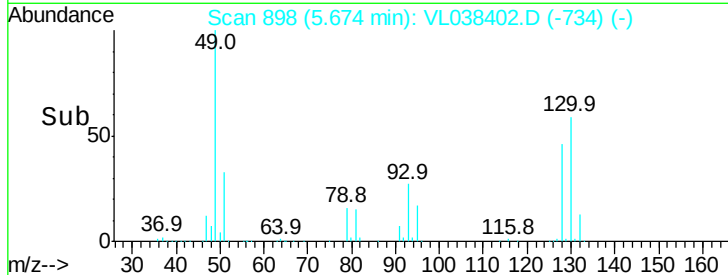
130 60.1 30.1 90.5



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



#2

Dichlorodifluoromethane

Concen: 0.05 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038402.D

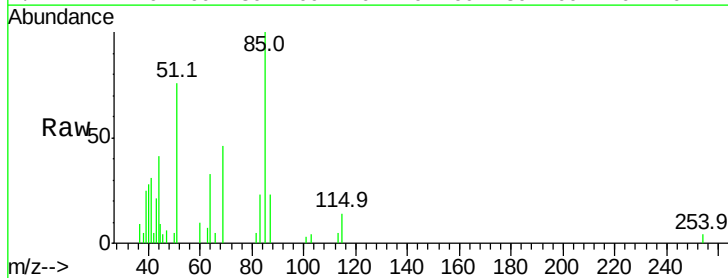
Acq: 23 Feb 2022 00:05

Tgt Ion: 85 Resp: 6508

Ion Ratio Lower Upper

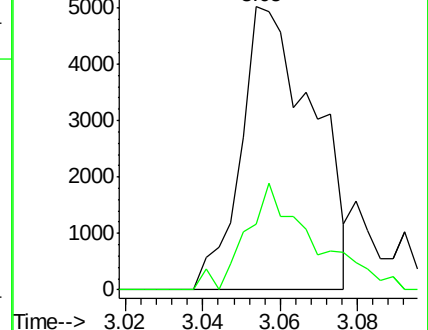
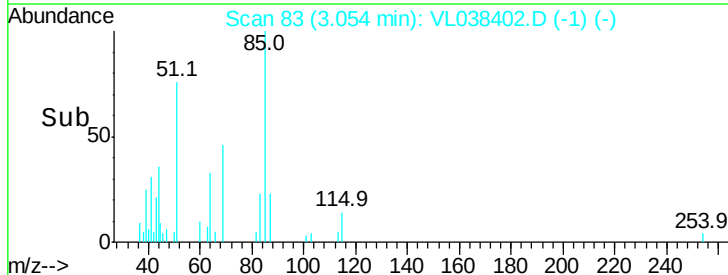
85 100

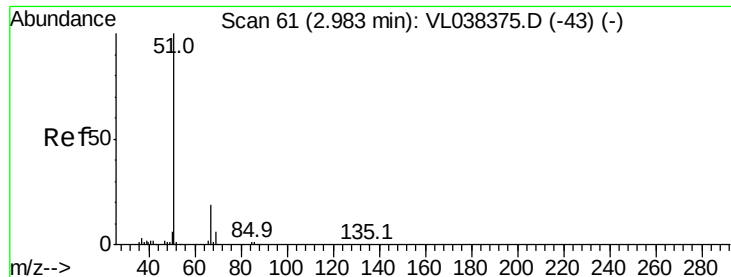
87 23.4 27.4 41.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.11 ppbv

RT: 3.03 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

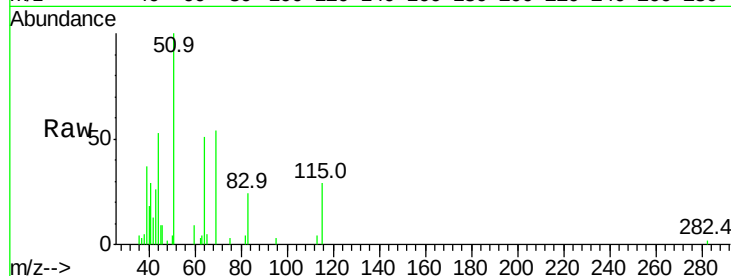
Acq: 23 Feb 2022 00:05

Tgt Ion: 51 Resp: 16997

Ion Ratio Lower Upper

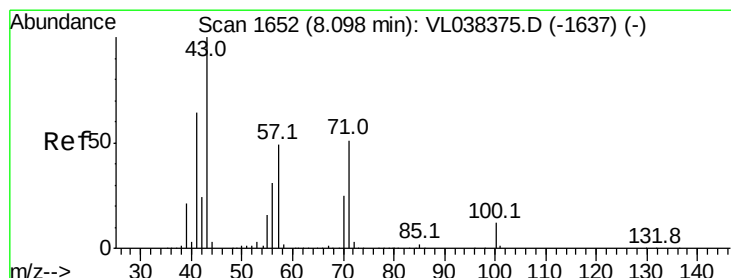
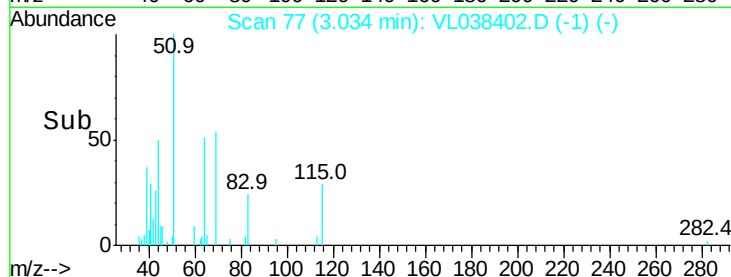
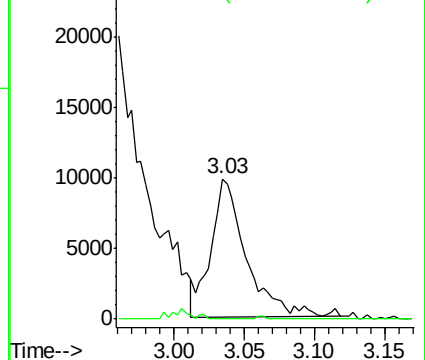
51 100

67 3.9 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#10

Heptane

Concen: 0.22 ppbv

RT: 8.12 min Scan# 1659

Delta R.T. 0.02 min

Lab File: VL038402.D

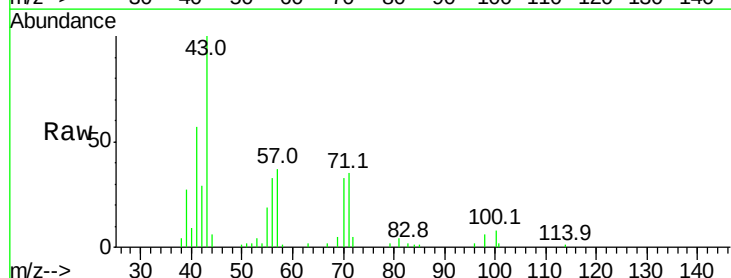
Acq: 23 Feb 2022 00:05

Tgt Ion: 43 Resp: 28428

Ion Ratio Lower Upper

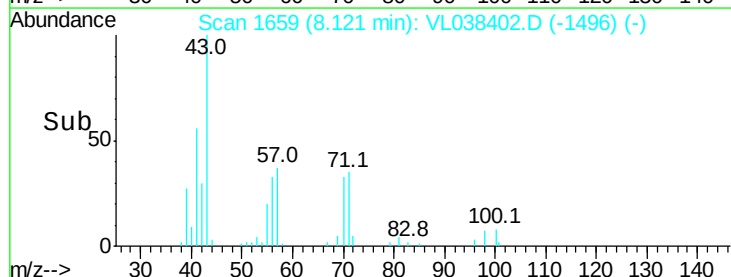
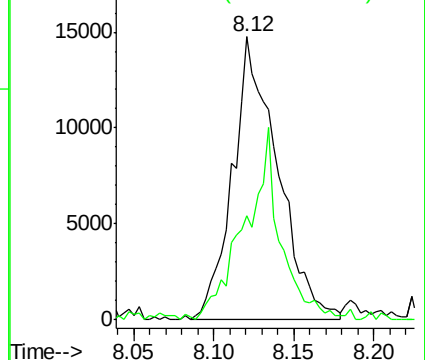
43 100

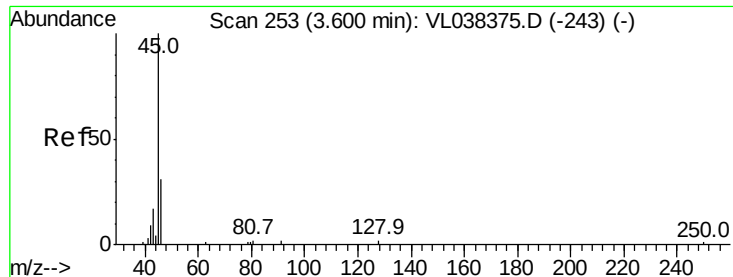
57 55.8 39.8 59.8



Abundance Ion 43.10 (42.80 to 43.80): VL0

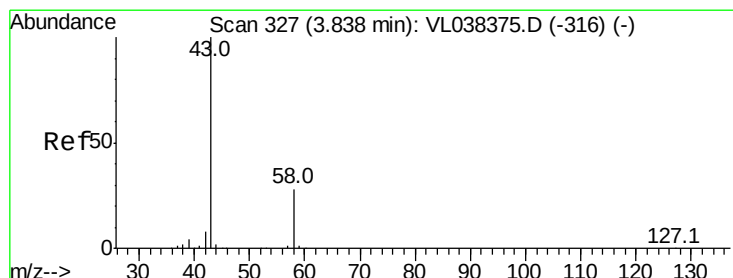
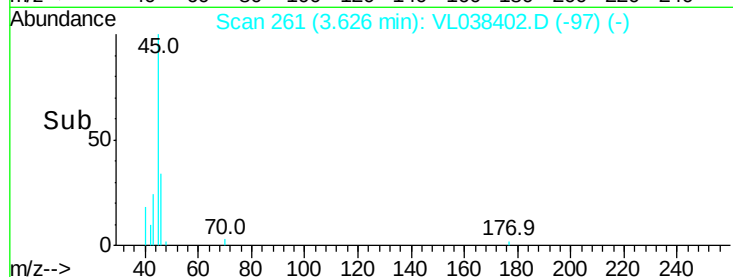
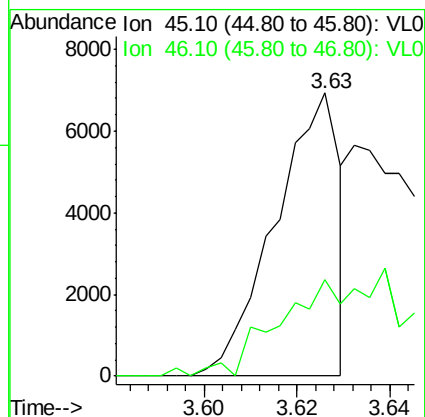
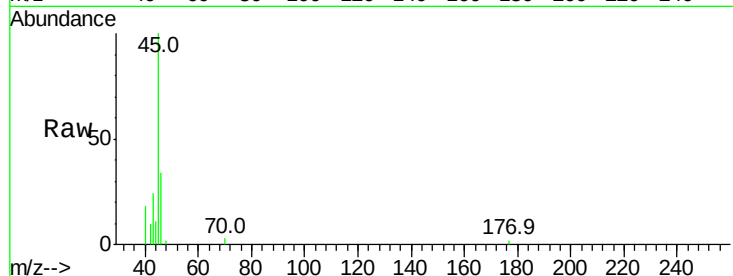
Ion 57.10 (56.80 to 57.80): VL0





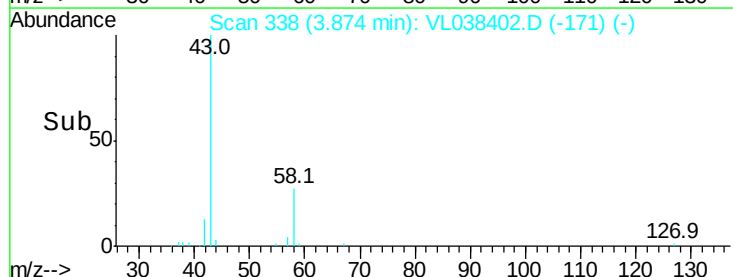
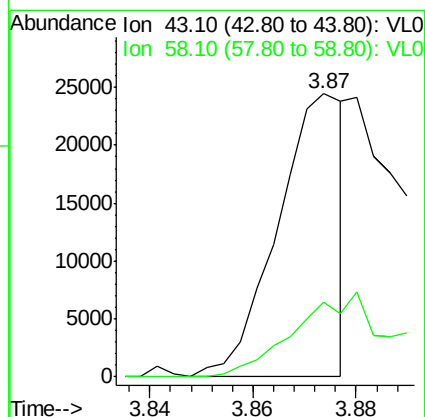
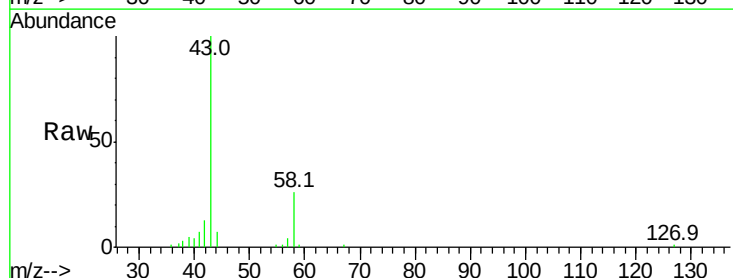
#13
Ethanol
Concen: 1.29 ppbv
RT: 3.63
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 23 Feb 2022 00:05

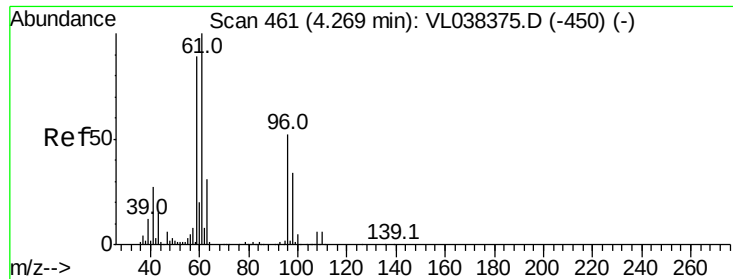
Tgt Ion: 45 Resp: 6711
Ion Ratio Lower Upper
45 100
46 0.0 18.2 72.8#



#15
Acetone
Concen: 0.29 ppbv
RT: 3.87 min Scan# 338
Delta R.T. 0.04 min
Lab File: VL038402.D
Acq: 23 Feb 2022 00:05

Tgt Ion: 43 Resp: 21801
Ion Ratio Lower Upper
43 100
58 0.0 21.7 32.5#





#17

tert-Butyl alcohol

Concen: 0.04 ppbv

RT: 4.31 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

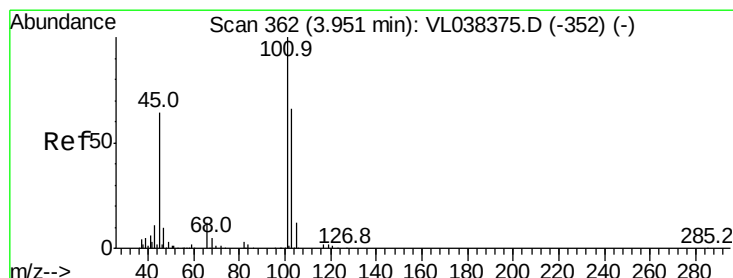
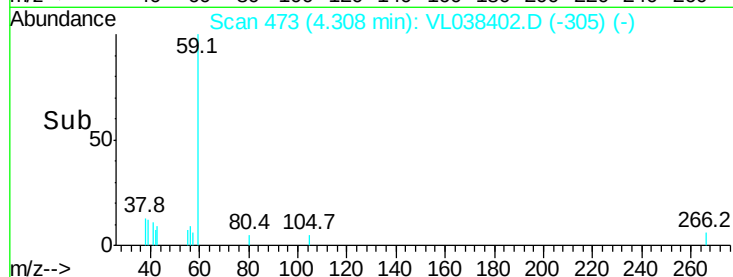
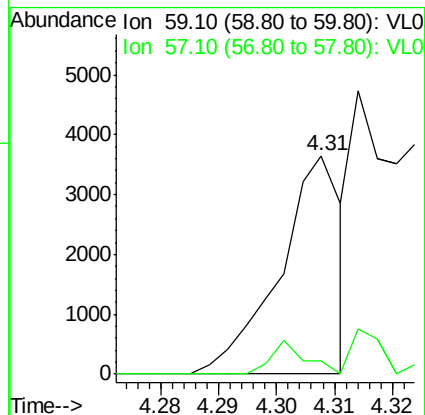
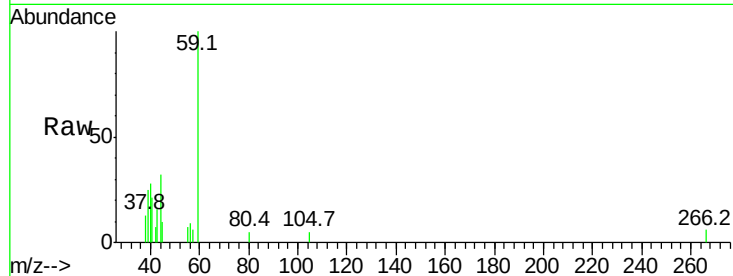
Acq: 23 Feb 2022 00:05

Tgt Ion: 59 Resp: 2712

Ion Ratio Lower Upper

59 100

57 0.0 8.4 12.6#



#19

Isopropyl Alcohol

Concen: 0.95 ppbv

RT: 3.99 min Scan# 373

Delta R.T. 0.04 min

Lab File: VL038402.D

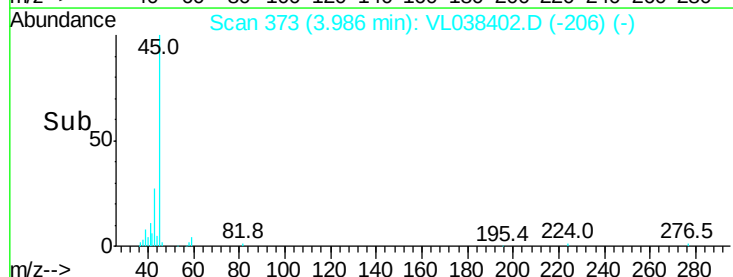
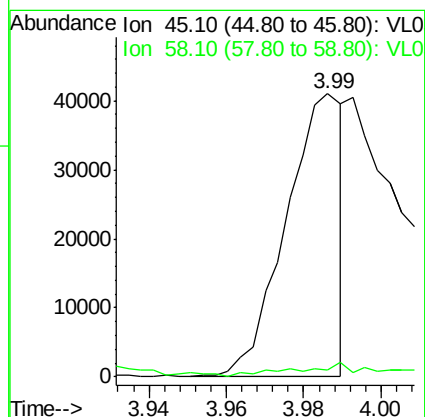
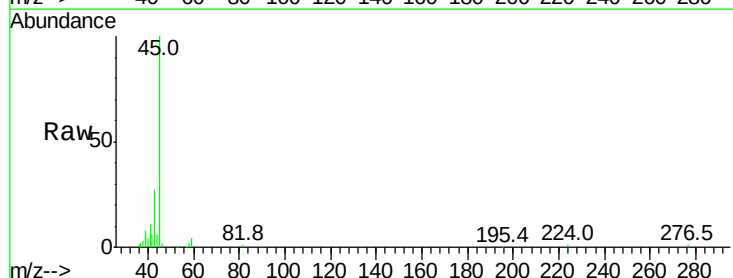
Acq: 23 Feb 2022 00:05

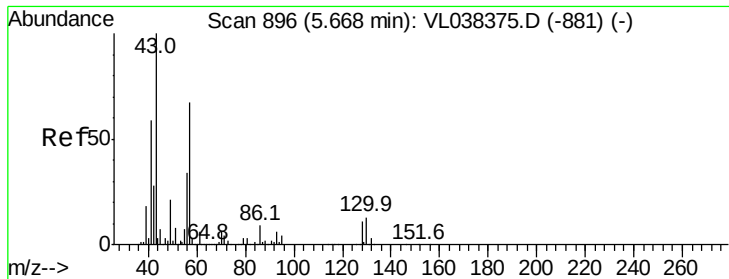
Tgt Ion: 45 Resp: 41625

Ion Ratio Lower Upper

45 100

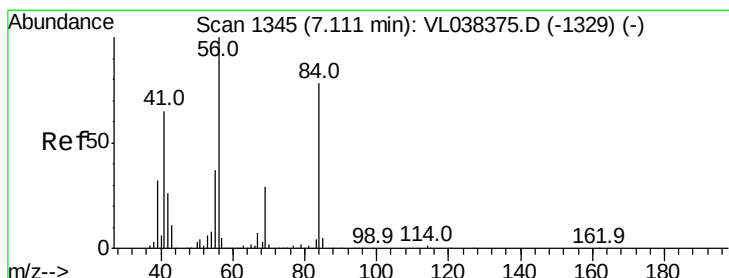
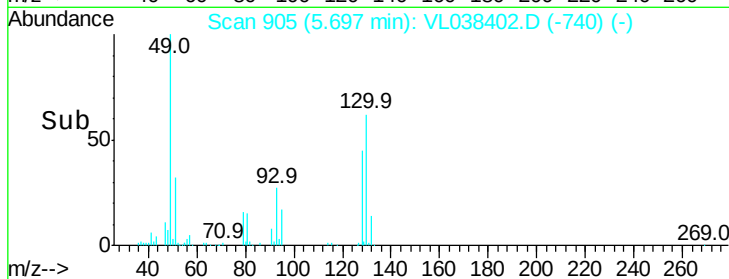
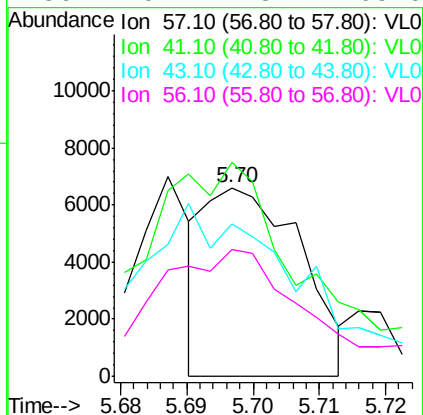
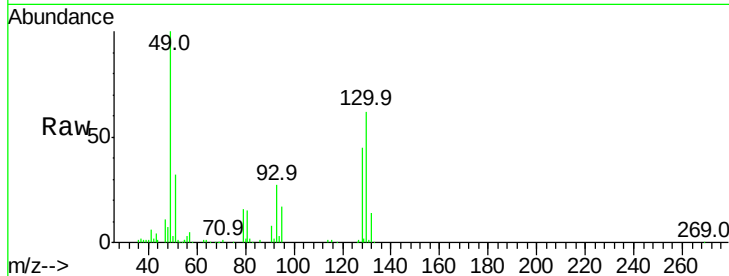
58 9.3 1.8 2.8#





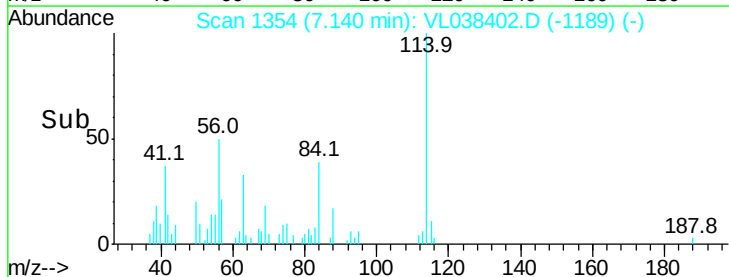
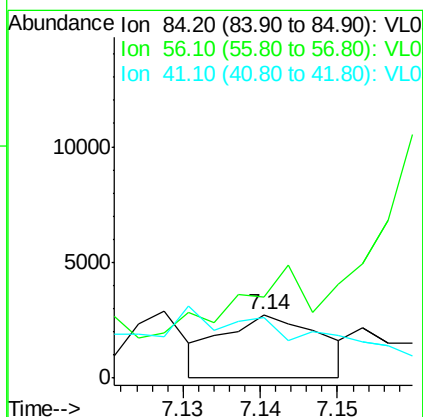
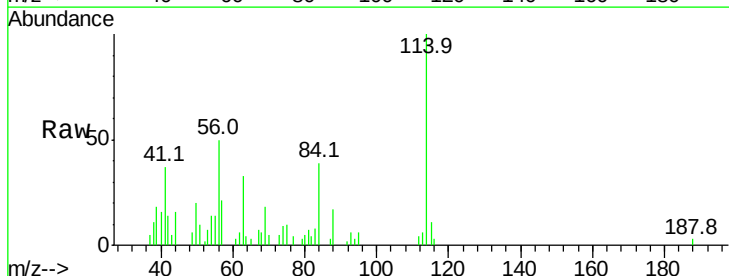
#26
Hexane
Concen: 0.07 ppbv
RT: 5.70
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 23 Feb 2022 00:05

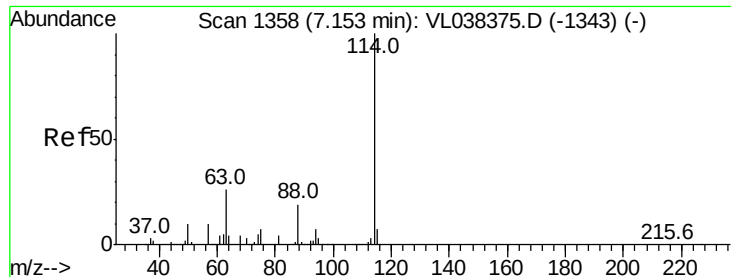
Tgt Ion: 57 Resp: 6651
Ion Ratio Lower Upper
57 100
41 236.4 73.1 109.7#
43 0.0 181.0 271.4#
56 129.1 43.4 65.0#



#30
Cyclohexane
Concen: 0.03 ppbv
RT: 7.14 min Scan# 1354
Delta R.T. 0.03 min
Lab File: VL038402.D
Acq: 23 Feb 2022 00:05

Tgt Ion: 84 Resp: 2436
Ion Ratio Lower Upper
84 100
56 0.0 116.2 174.4#
41 0.0 74.3 111.5#

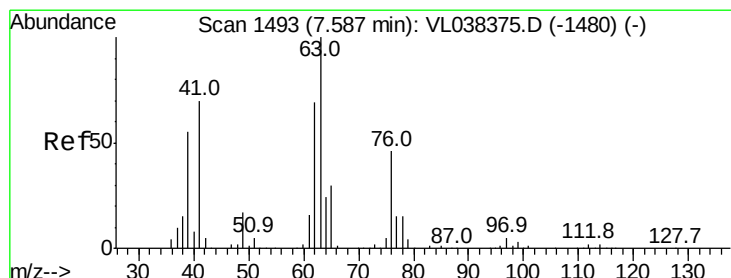
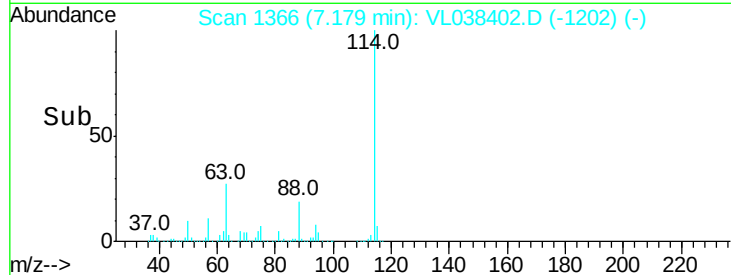
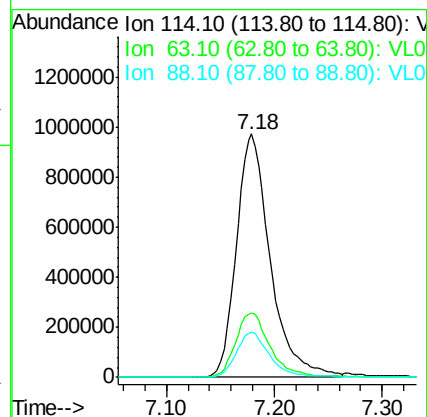
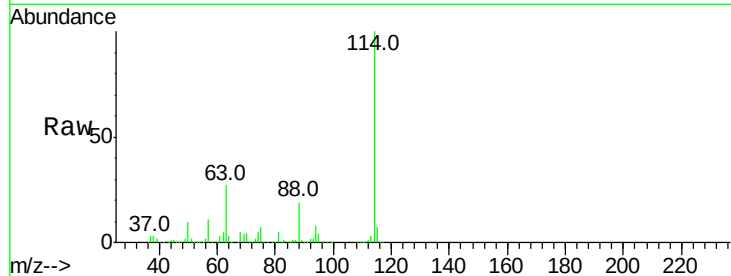




#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.18 min
 Delta R.T.: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Feb 2022 00:05

Tgt Ion: 114 Resp: 2126526

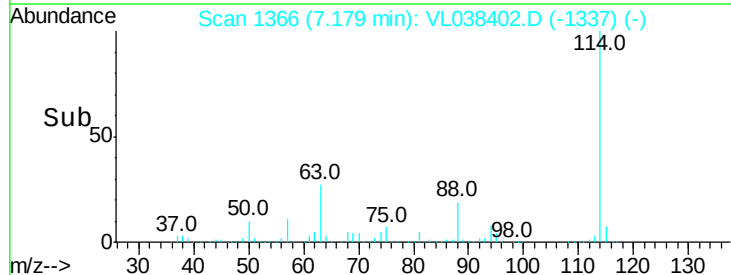
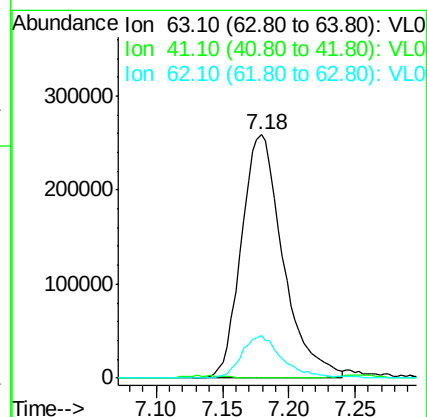
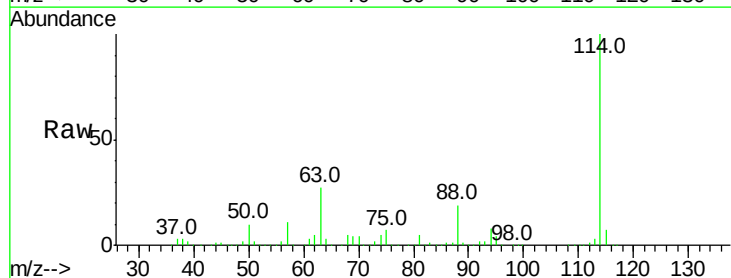
Ion	Ratio	Lower	Upper
114	100		
63	27.7	22.2	33.2
88	19.0	15.2	22.8

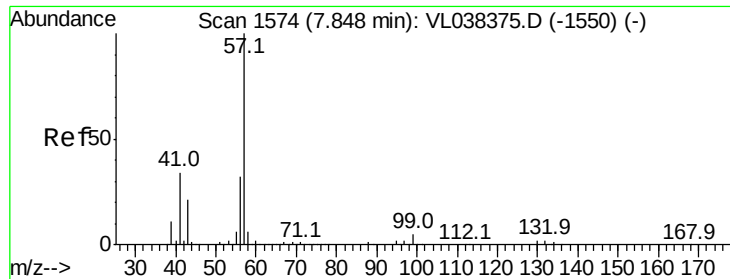


#39
 1,2-Dichloropropane
 Concen: 7.60 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T.: -0.41 min
 Lab File: VL038402.D
 Acq: 23 Feb 2022 00:05

Tgt Ion: 63 Resp: 566727

Ion	Ratio	Lower	Upper
63	100		
41	0.0	56.1	84.1#
62	17.4	55.5	83.3#





#44

2,2,4-Trimethylpentane

Concen: 0.04 ppbv

RT: 7.88 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 23 Feb 2022 00:05

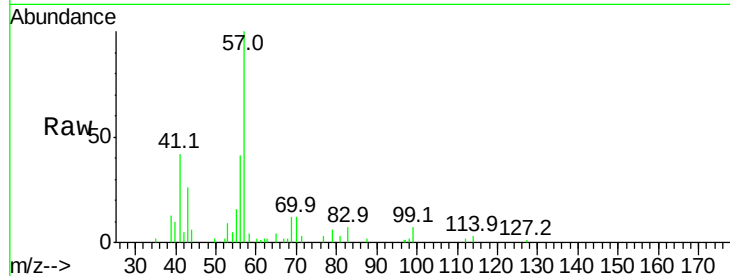
Tgt Ion: 57 Resp: 12584

Ion Ratio Lower Upper

57 100

41 0.0 26.6 39.8#

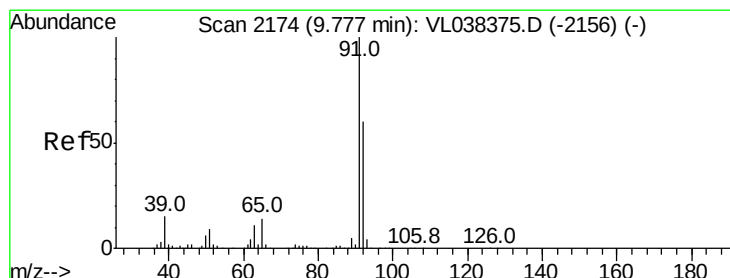
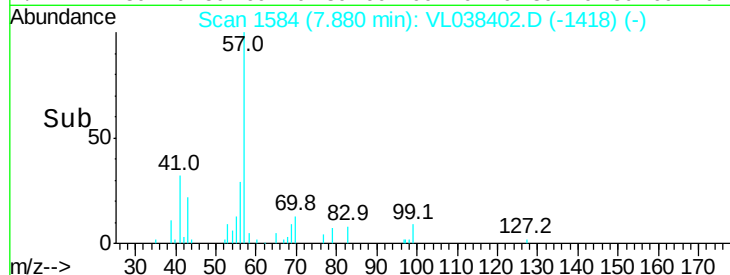
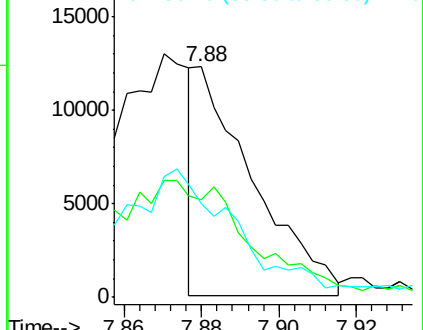
56 0.0 25.0 37.6#



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: 0.80 ppbv

RT: 9.81 min Scan# 2184

Delta R.T. 0.03 min

Lab File: VL038402.D

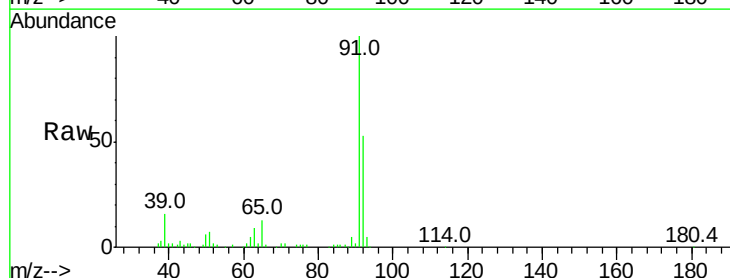
Acq: 23 Feb 2022 00:05

Tgt Ion: 91 Resp: 162673

Ion Ratio Lower Upper

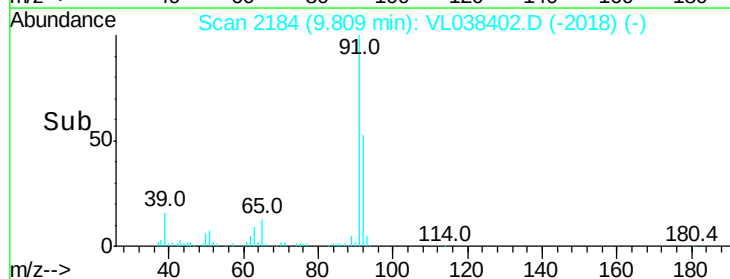
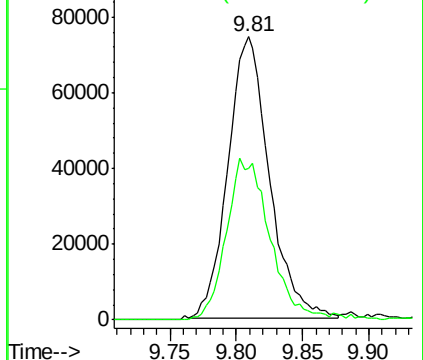
91 100

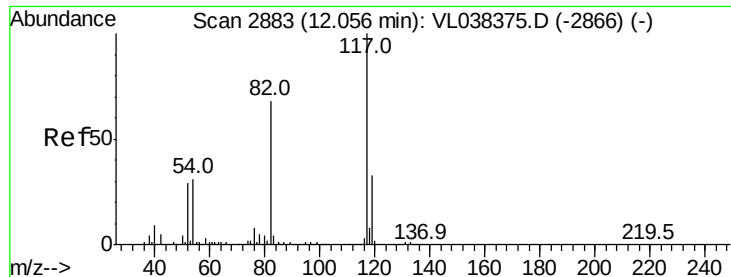
92 60.7 48.2 72.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

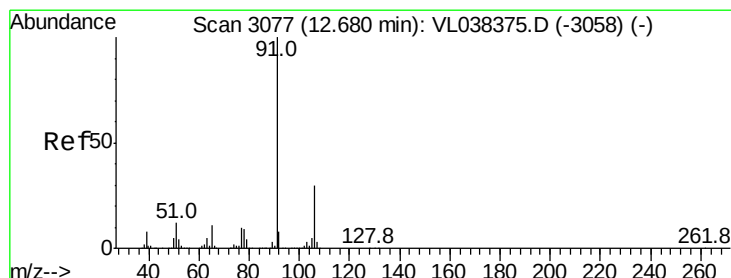
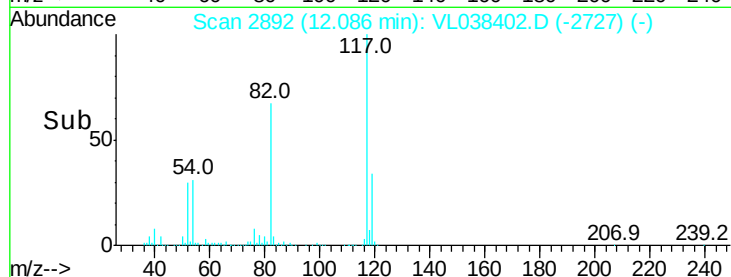
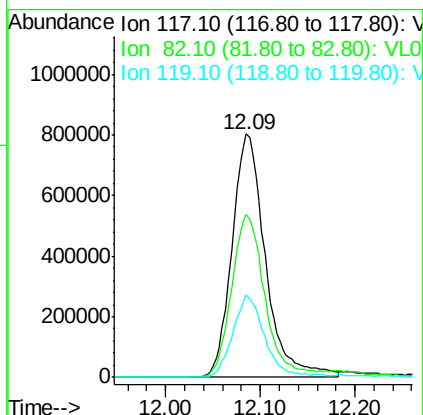
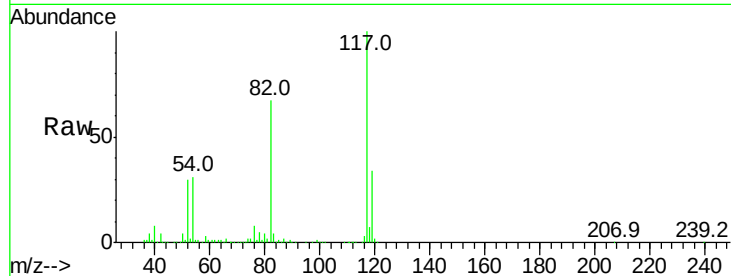
Ion 92.10 (91.80 to 92.80): VL0





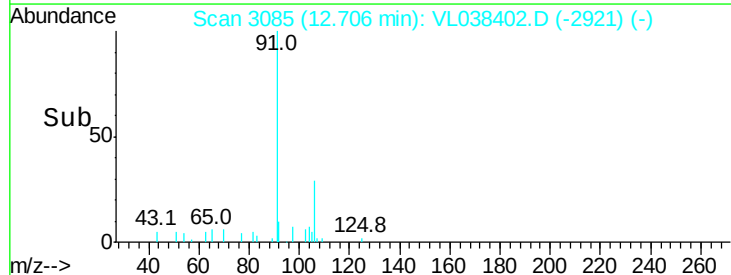
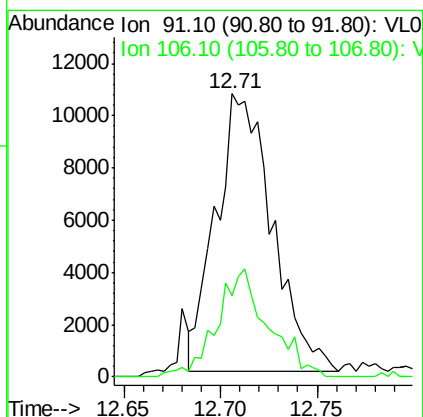
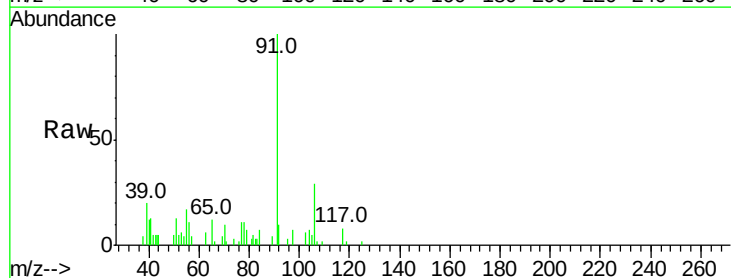
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.09 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 Feb 2022 00:05

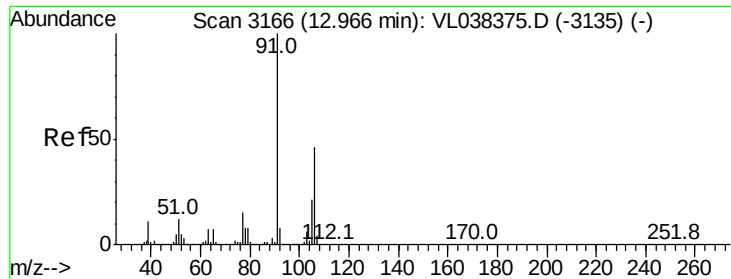
Tgt Ion: 117 Resp: 1972232
Ion Ratio Lower Upper
117 100
82 71.2 54.9 82.3
119 33.6 46.1 69.1#



#58
Ethyl Benzene
Concen: 0.08 ppbv
RT: 12.71 min Scan# 3085
Delta R.T. 0.03 min
Lab File: VL038402.D
Acq: 23 Feb 2022 00:05

Tgt Ion: 91 Resp: 21510
Ion Ratio Lower Upper
91 100
106 29.3 24.0 36.0





#59

m/p-Xylene

Concen: 0.07 ppbv

RT: 13.00

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

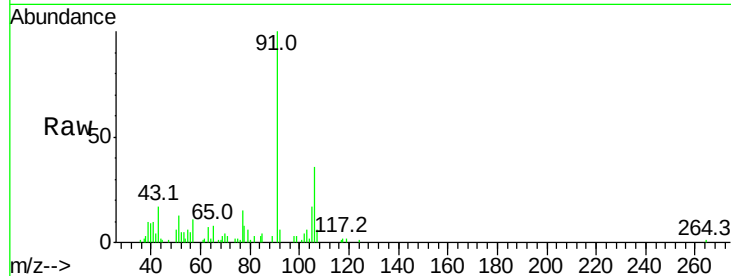
Acq: 23 Feb 2022 00:05

Tgt Ion: 91 Resp: 16268

Ion Ratio Lower Upper

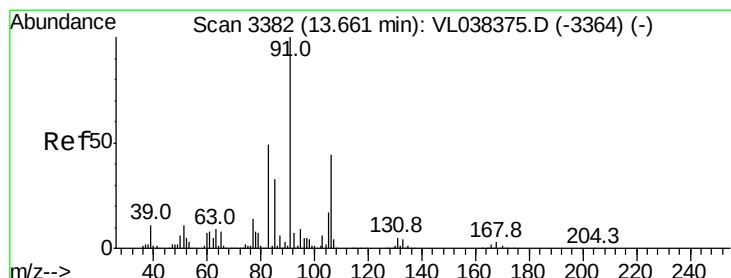
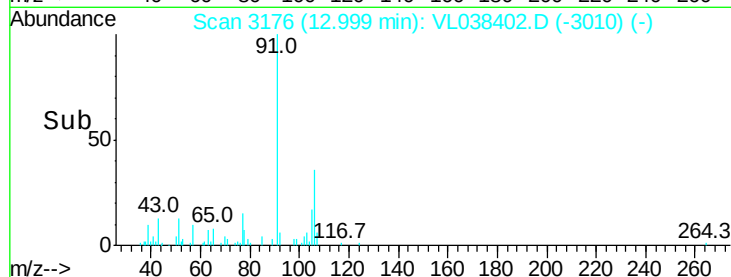
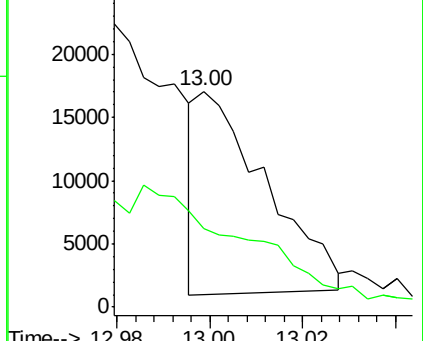
91 100

106 0.0 34.4 51.6#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.08 ppbv

RT: 13.69 min Scan# 3390

Delta R.T. 0.03 min

Lab File: VL038402.D

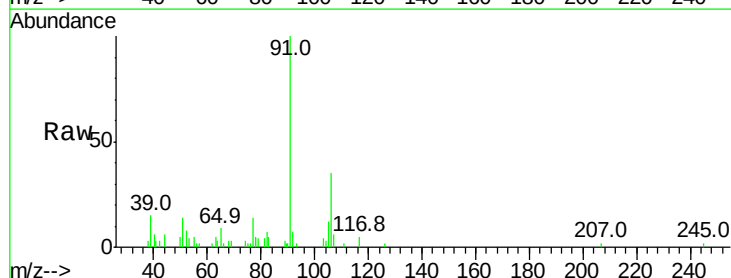
Acq: 23 Feb 2022 00:05

Tgt Ion: 91 Resp: 17404

Ion Ratio Lower Upper

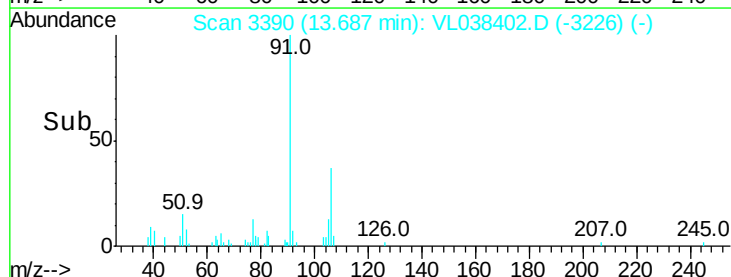
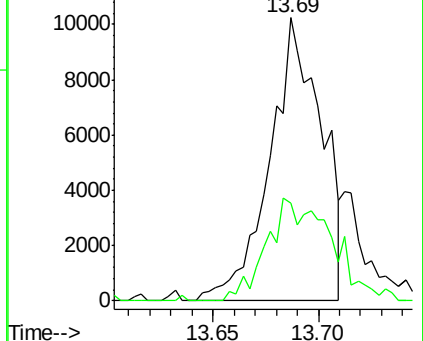
91 100

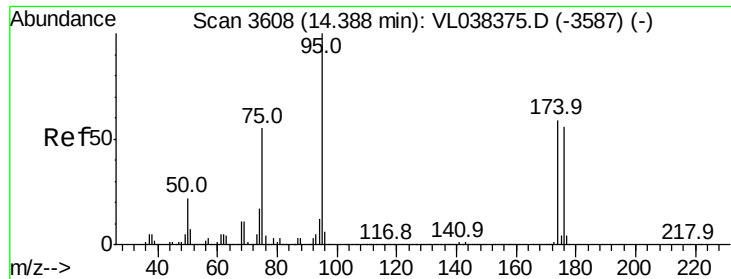
106 46.3 21.9 65.5



Abundance Ion 91.10 (90.80 to 91.80): VL0

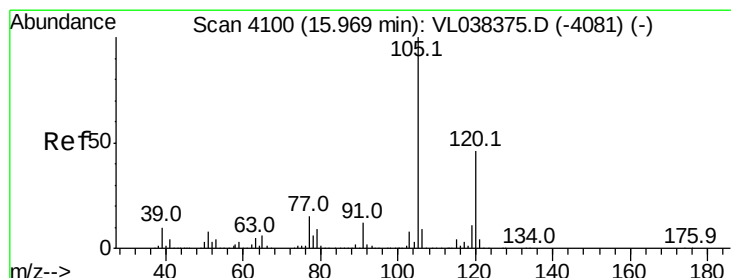
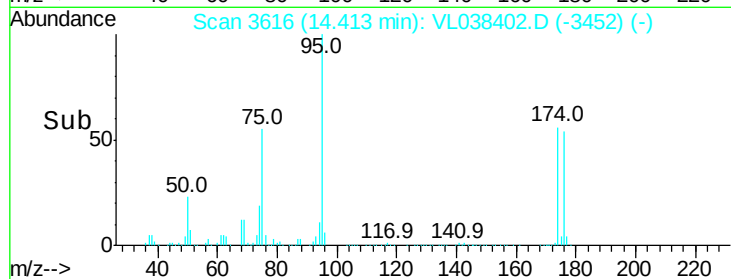
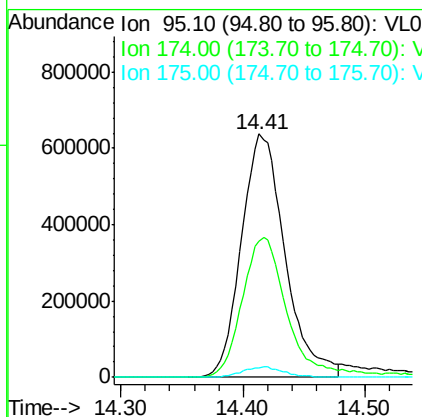
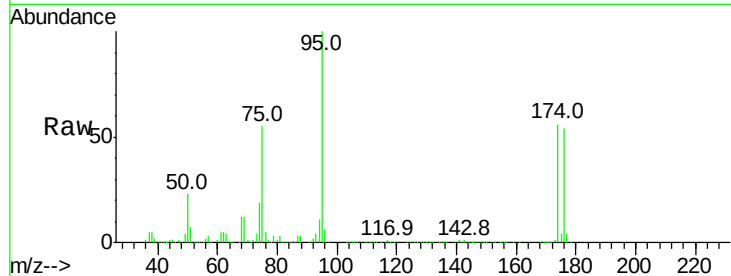
Ion 106.10 (105.80 to 106.80): V





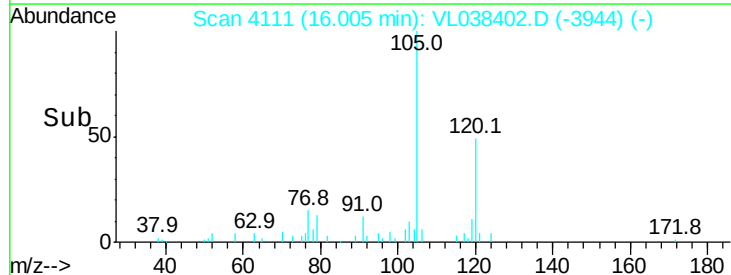
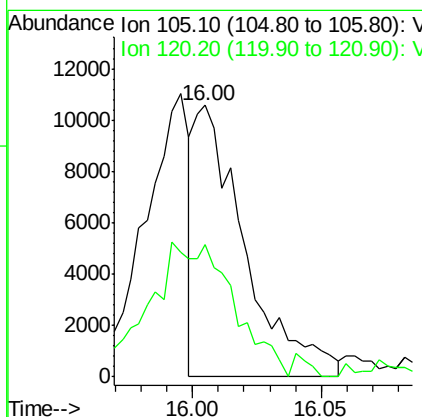
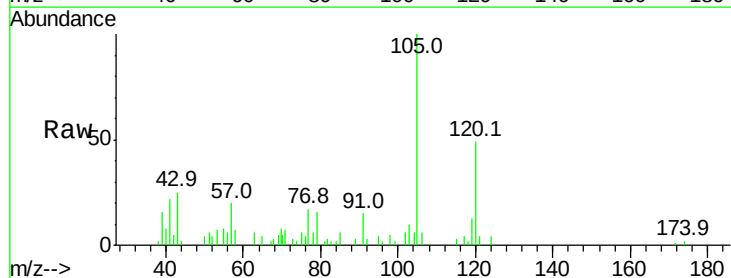
#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.67 ppbv
 RT: 14.41 min
 Delta R.T. 0.04 min
 Lab File: VL038402.D
 Acq: 23 Feb 2022 00:05

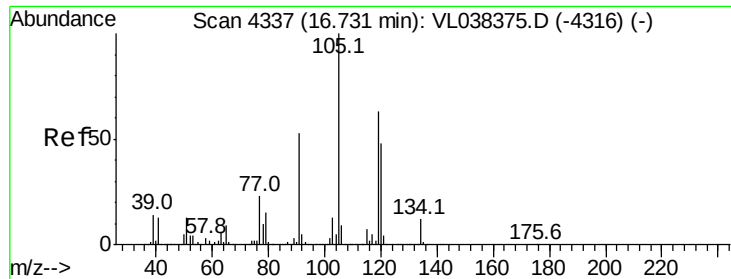
Tgt Ion: 95 Resp: 1578375
 Ion Ratio Lower Upper
 95 100
 174 62.1 49.0 73.4
 175 4.3 3.6 5.4



#73
 1,3,5-Trimethylbenzene
 Concen: 0.07 ppbv
 RT: 16.00 min Scan# 4111
 Delta R.T. 0.04 min
 Lab File: VL038402.D
 Acq: 23 Feb 2022 00:05

Tgt Ion: 105 Resp: 14331
 Ion Ratio Lower Upper
 105 100
 120 51.6 36.6 55.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.33 ppbv
 RT: 16.76
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 Feb 2022 00:05

Tgt Ion	Ratio	Lower	Upper
105	100		
120	36.2	38.2	57.4#
91	14.5	42.7	64.1#
77	15.0	18.5	27.7#

