

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL052322\
 Data File : VL039090.D
 Acq On : 23 May 2022 19:03
 Operator : SY/AP
 Sample : N2956-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AP-1DUP

Quant Time: May 24 05:59:54 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050522AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LThu May 05 10:12:15 2022
 QLast Update : Thu May 05 10:12:15 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	961215	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	2145089	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.06	117	1806725	10.00	ppbv	-0.01

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.39	95	1539599	10.76	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	107.60%

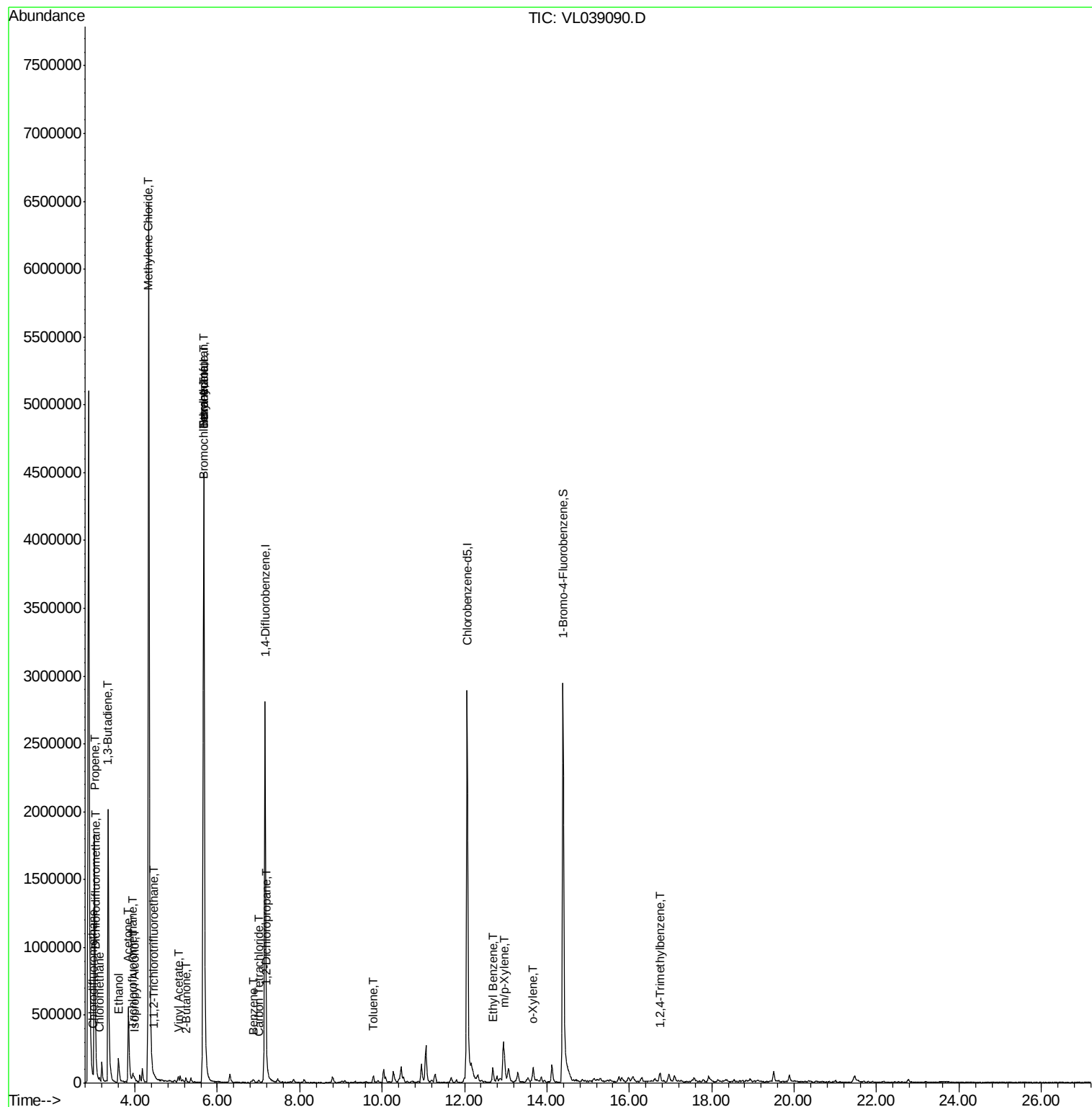
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	57776	0.384	ppbv 96
3) Chlorodifluoromethane	2.98	51	54267	0.455	ppbv 93
4) Chloromethane	3.14	50	28754	0.481	ppbv 98
9) Propene	3.02	41	444487	8.533	ppbv # 56
11) Trichlorofluoromethane	3.94	101	33048	0.256	ppbv 93
12) 1,1,2-Trichlorotrifluoroet	4.47	101	5031	0.057	ppbv # 48
13) Ethanol	3.60	45	223555	60.647	ppbv 88
15) Acetone	3.84	43	691523	7.627	ppbv 97
16) 1,3-Butadiene	3.35	39	311737	5.984	ppbv # 11
19) Isopropyl Alcohol	3.99	45	3269	0.076	ppbv # 95
20) Methylene Chloride	4.33	84	2866745	83.887	ppbv 98
23) Vinyl Acetate	5.06	43	2896	0.040	ppbv # 89
25) Ethyl Acetate	5.67	43	1193994	5.502	ppbv # 77
26) Hexane	5.67	57	1695890	17.587	ppbv # 39
34) 2-Butanone	5.24	43	34783	0.318	ppbv # 89
35) Carbon Tetrachloride	7.00	117	5760	0.041	ppbv # 55
36) Benzene	6.87	78	7468	0.041	ppbv # 89
39) 1,2-Dichloropropane	7.20	63	10082	0.141	ppbv # 25
41) Tetrahydrofuran	5.67	42	634626	8.628	ppbv # 50
53) Toluene	9.78	91	17843	0.087	ppbv # 21
58) Ethyl Benzene	12.69	91	93016	0.358	ppbv 94
59) m/p-Xylene	12.97	91	70016	0.315	ppbv # 33
60) o-Xylene	13.67	91	81106	0.388	ppbv 99
74) 1,2,4-Trimethylbenzene	16.74	105	42512	0.181	ppbv # 62

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

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AP-1DUP

Acq: 23 May 2022 19:03

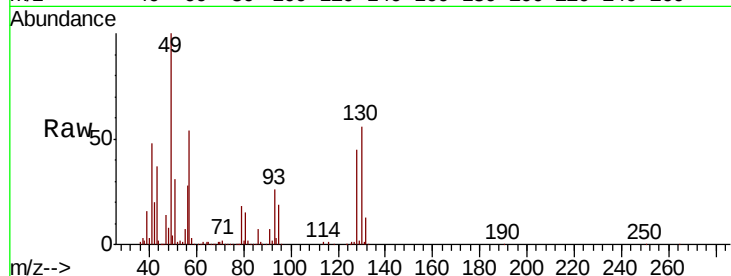
Tot Ion: 49 Resp: 961215

Ion Ratio Lower Upper

49 100

128 46.4 23.3 69.8

130 58.6 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

5.65

600000

500000

400000

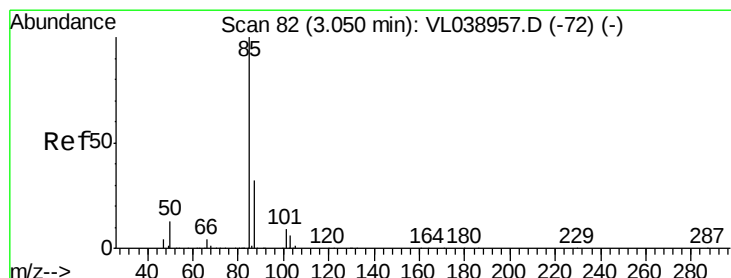
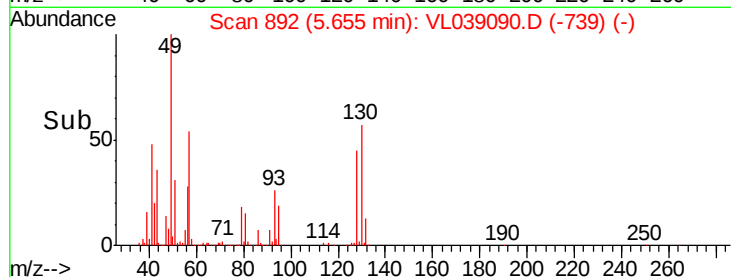
300000

200000

100000

0

Time-->



#2

Dichlorodifluoromethane

Concen: 0.384 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.00 min

Lab File: VL039090.D

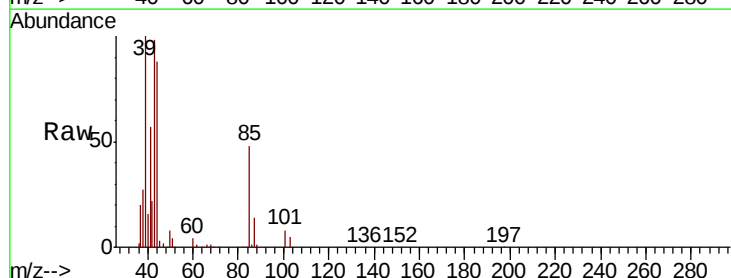
Acq: 23 May 2022 19:03

Tgt Ion: 85 Resp: 57776

Ion Ratio Lower Upper

85 100

87 29.6 25.7 38.5



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

40000

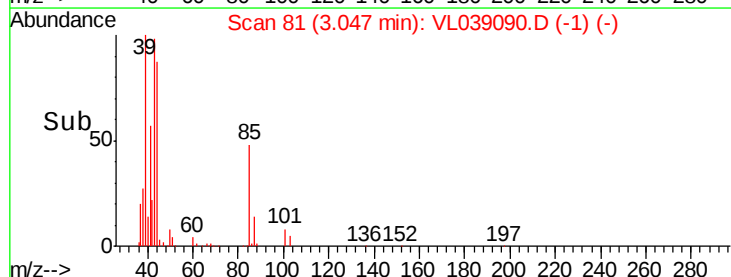
30000

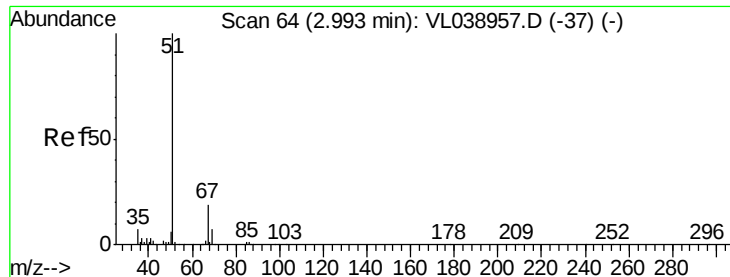
20000

10000

0

Time-->





#3

Chlorodifluoromethane

Concen: 0.455 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AP-1DUP

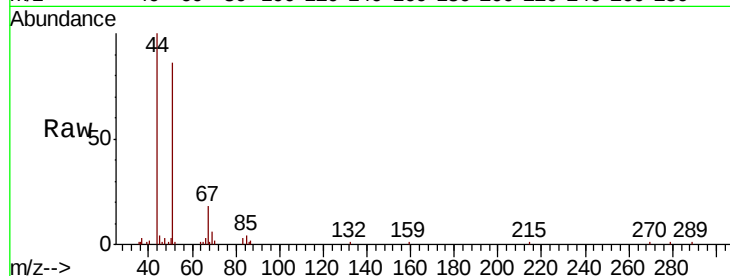
Acq: 23 May 2022 19:03

Tot Ion: 51 Resp: 54267

Ion Ratio Lower Upper

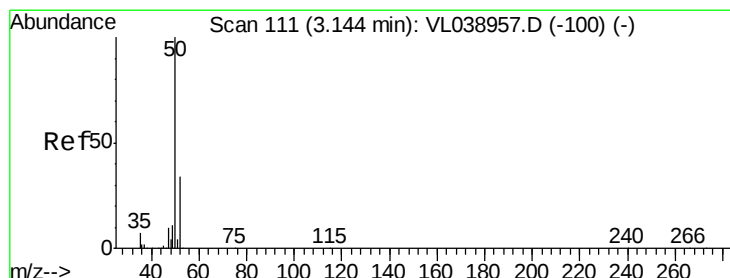
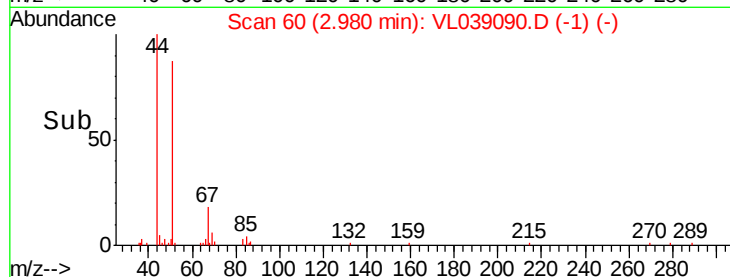
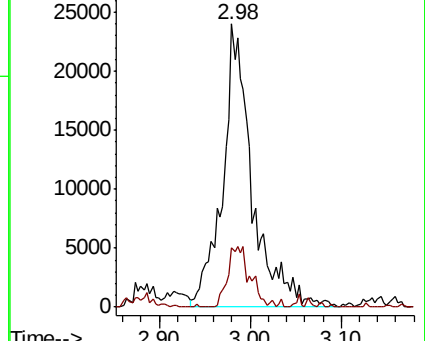
51 100

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



#4

Chloromethane

Concen: 0.481 ppbv

RT: 3.14 min Scan# 110

Delta R.T. -0.00 min

Lab File: VL039090.D

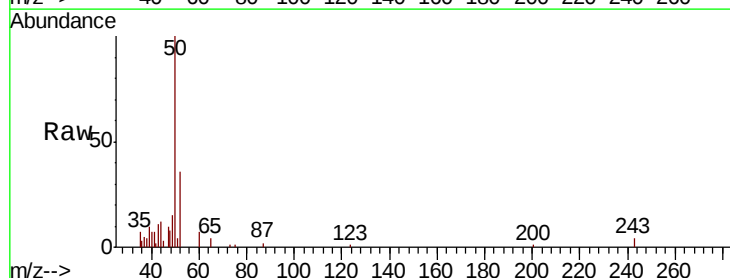
Acq: 23 May 2022 19:03

Tgt Ion: 50 Resp: 28754

Ion Ratio Lower Upper

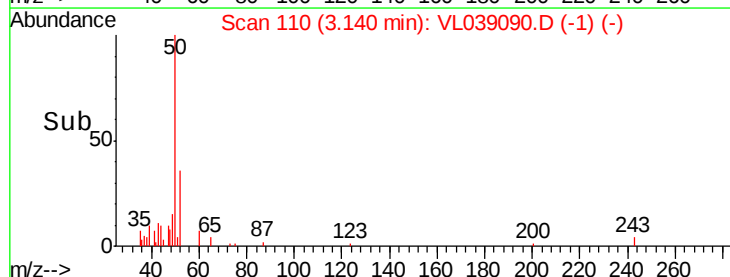
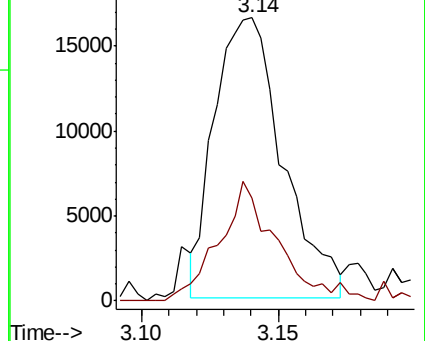
50 100

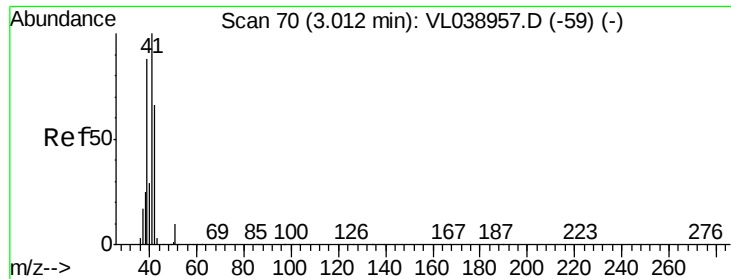
52 33.2 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 8.533 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

AP-1DUP

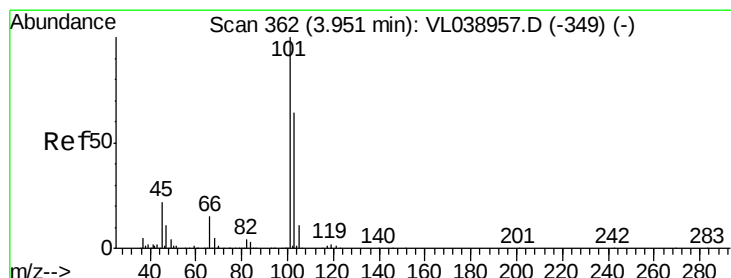
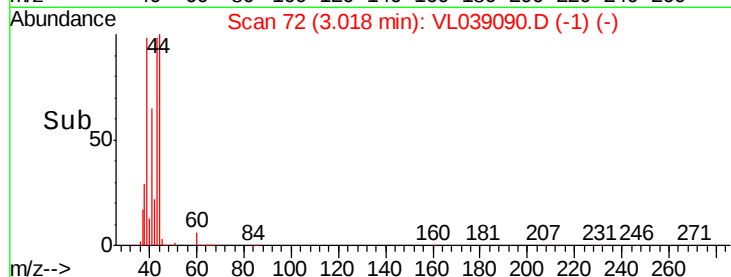
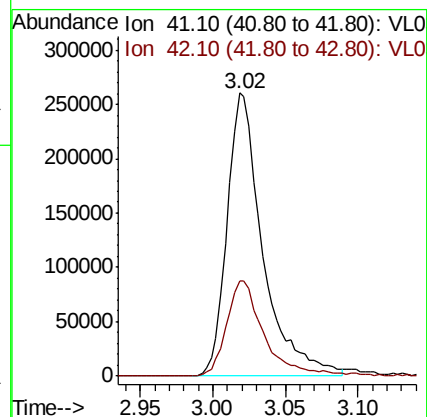
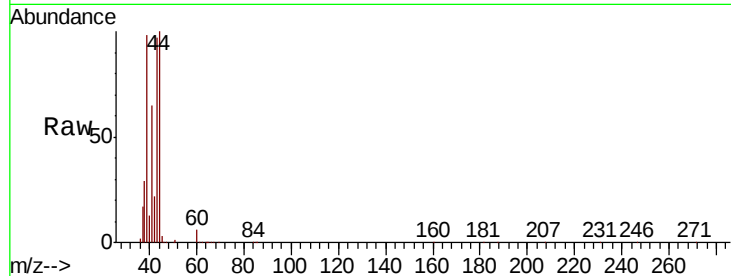
Acq: 23 May 2022 19:03

Tot Ion: 41 Resp: 444487

Ion Ratio Lower Upper

41 100

42 36.4 58.3 87.5#



#11

Trichlorofluoromethane

Concen: 0.256 ppbv

RT: 3.94 min Scan# 360

Delta R.T. -0.01 min

Lab File: VL039090.D

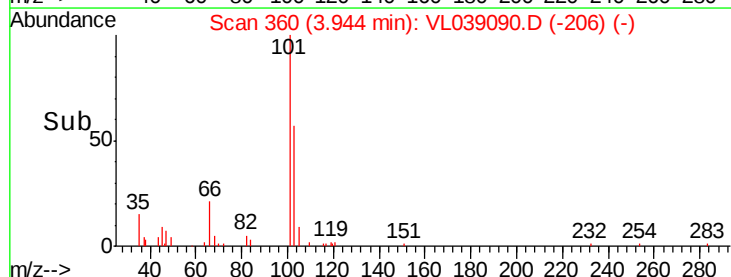
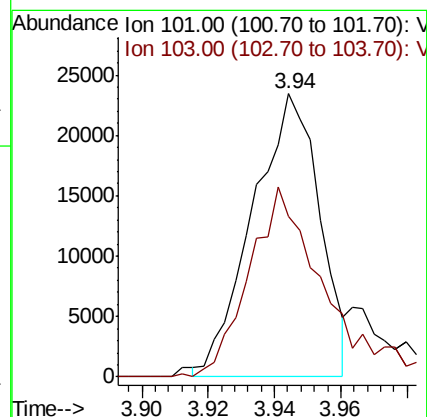
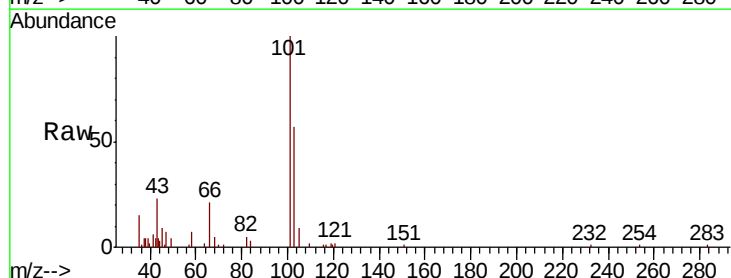
Acq: 23 May 2022 19:03

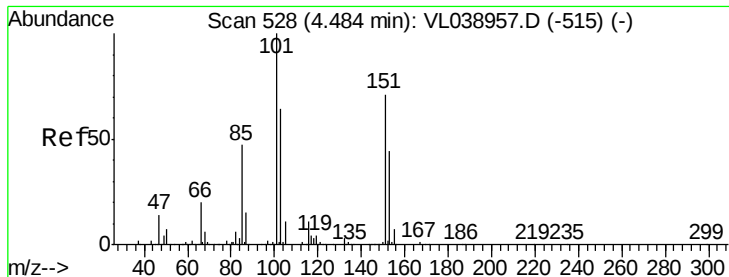
Tgt Ion: 101 Resp: 33048

Ion Ratio Lower Upper

101 100

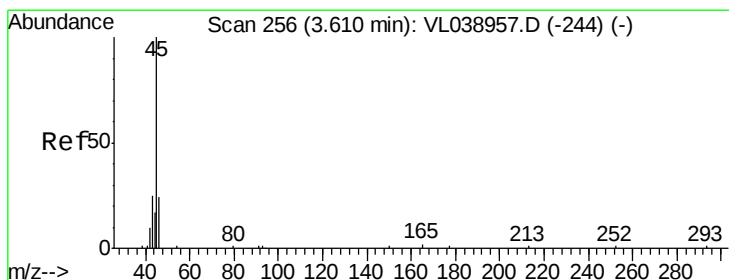
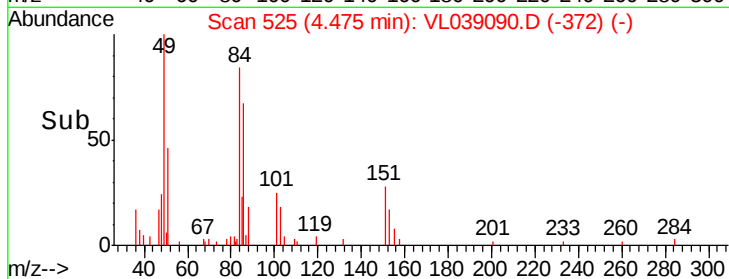
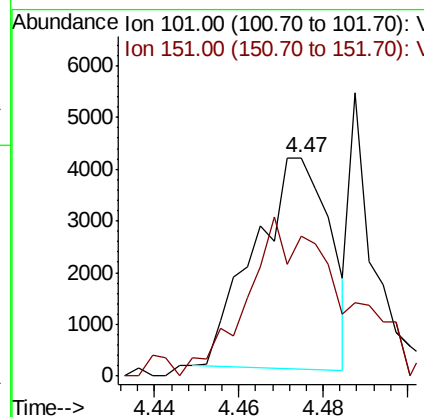
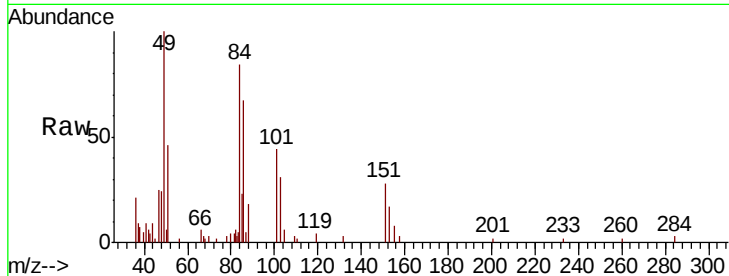
103 58.7 51.5 77.3





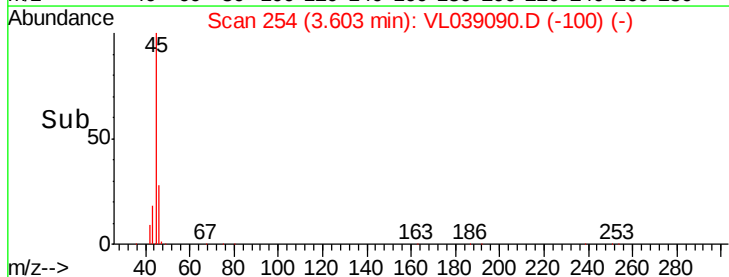
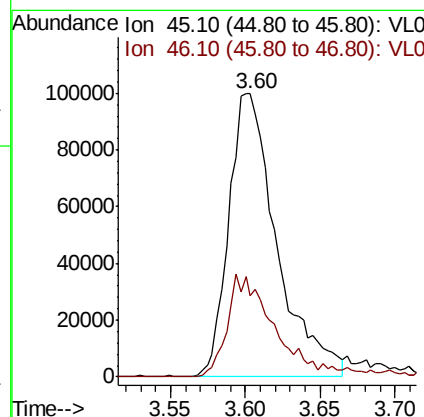
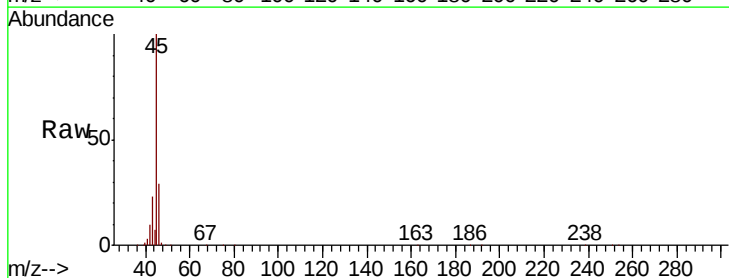
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.057 ppbv
 RT: 4.47
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 23 May 2022 19:03

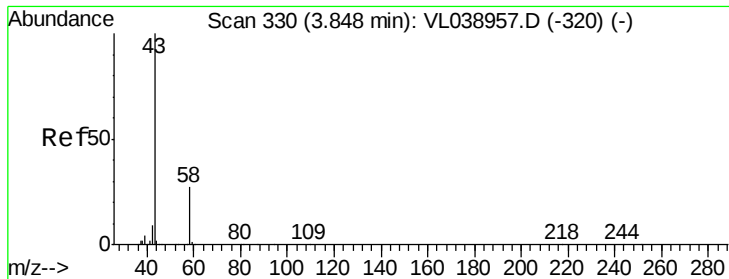
Tot Ion: 101 Resp: 5031
 Ion Ratio Lower Upper
 101 100
 151 111.9 55.4 83.0#



#13
 Ethanol
 Concen: 60.647 ppbv
 RT: 3.60 min Scan# 254
 Delta R.T. -0.01 min
 Lab File: VL039090.D
 Acq: 23 May 2022 19:03

Tgt Ion: 45 Resp: 223555
 Ion Ratio Lower Upper
 45 100
 46 37.4 18.0 72.2





#15

Acetone

Concen: 7.627 ppbv

RT: 3.84

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

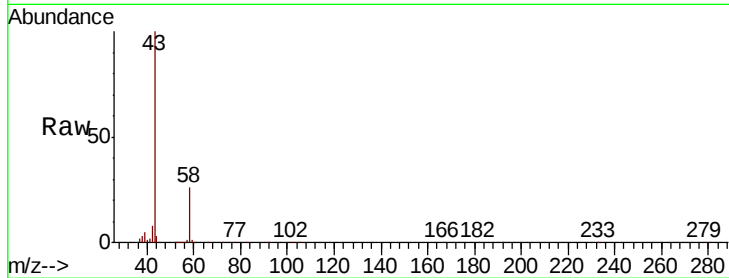
Acq: 23 May 2022 19:03

Tot Ion: 43 Resp: 691523

Ion Ratio Lower Upper

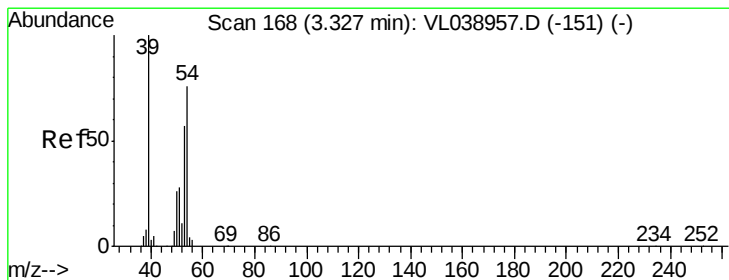
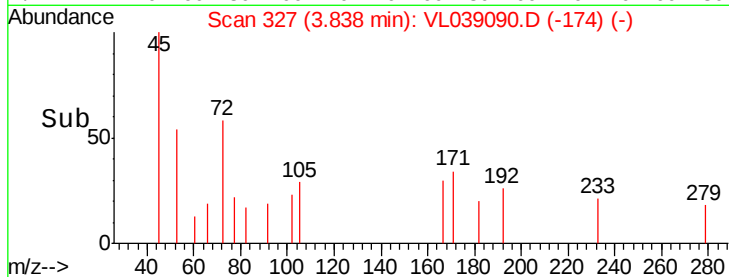
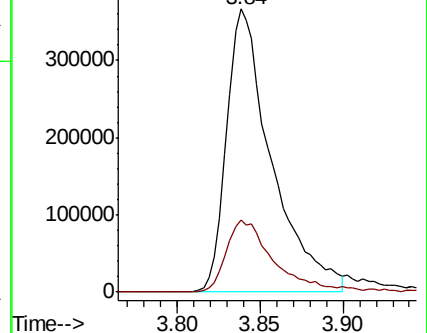
43 100

58 28.3 21.3 31.9



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#16

1,3-Butadiene

Concen: 5.984 ppbv

RT: 3.35 min Scan# 175

Delta R.T. 0.02 min

Lab File: VL039090.D

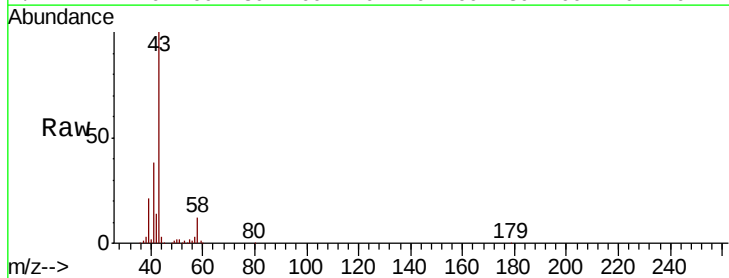
Acq: 23 May 2022 19:03

Tgt Ion: 39 Resp: 311737

Ion Ratio Lower Upper

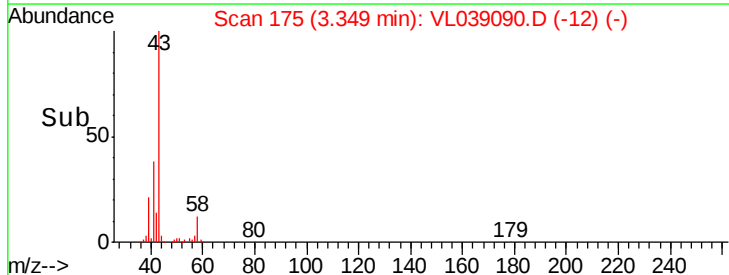
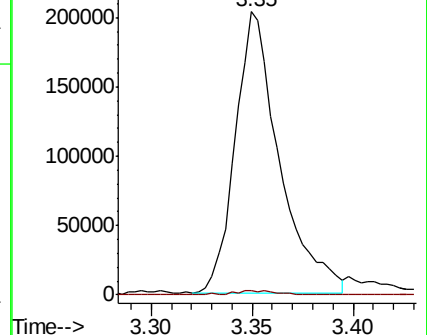
39 100

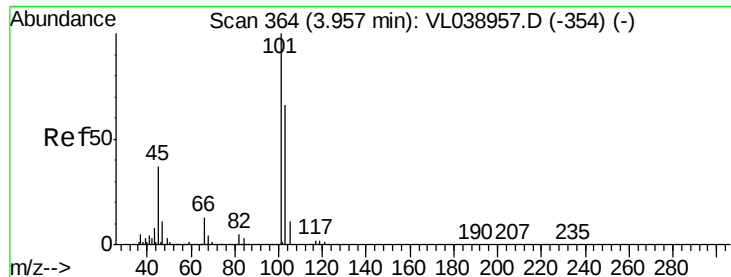
54 1.9 65.2 97.8#



Abundance Ion 39.10 (38.80 to 39.80): VL0

Ion 54.10 (53.80 to 54.80): VL0





#19

Isopropyl Alcohol

Concen: 0.076 ppbv

RT: 3.99 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

AP-1DUP

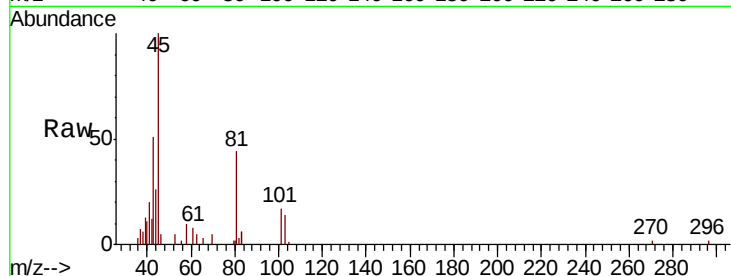
Acq: 23 May 2022 19:03

Tot Ion: 45 Resp: 3269

Ion Ratio Lower Upper

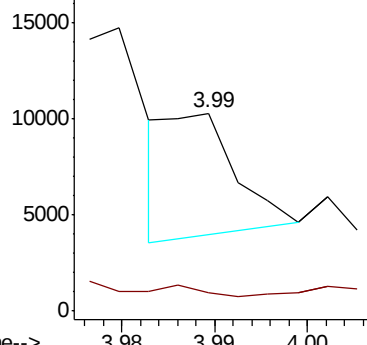
45 100

58 0.0 1.4 2.2#

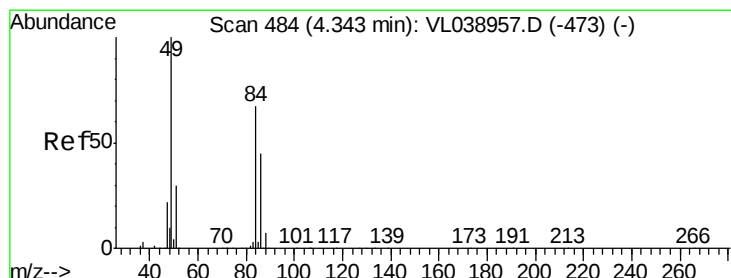
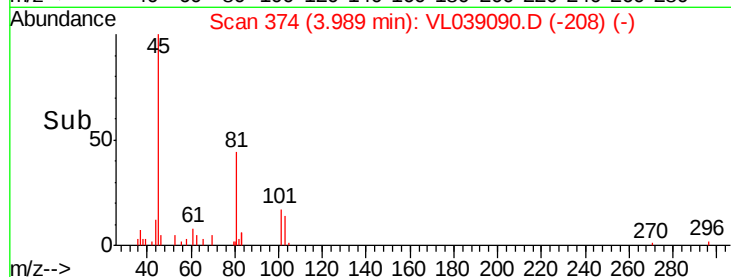


Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



Time-->



#20

Methylene Chloride

Concen: 83.887 ppbv

RT: 4.33 min Scan# 481

Delta R.T. -0.01 min

Lab File: VL039090.D

Acq: 23 May 2022 19:03

Tgt Ion: 84 Resp: 2866745

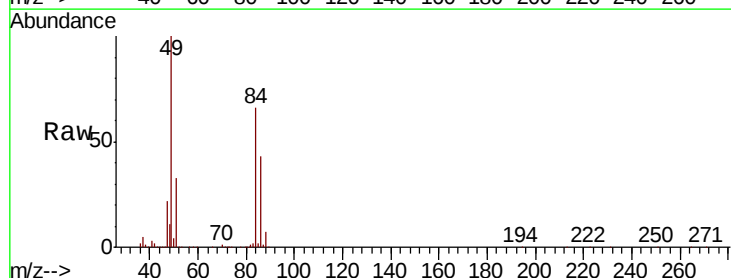
Ion Ratio Lower Upper

84 100

49 150.9 119.9 179.9

51 49.1 35.7 53.5

86 65.4 53.8 80.6

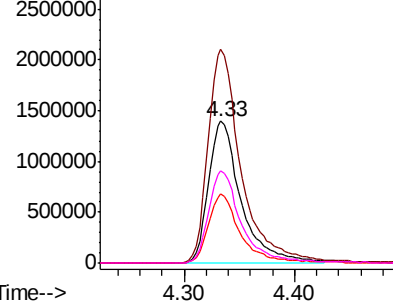


Abundance Ion 84.00 (83.70 to 84.70): VL0

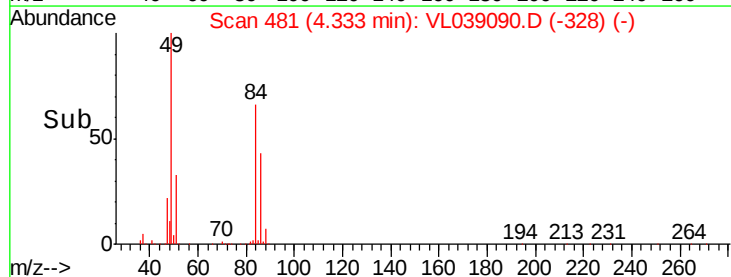
Ion 49.10 (48.80 to 49.80): VL0

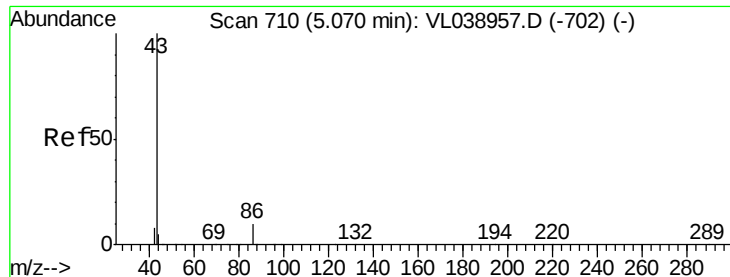
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



Time-->





#23

Vinyl Acetate

Concen: 0.040 ppbv

RT: 5.06 Instrument:

Delta R.T. MSVOA_1

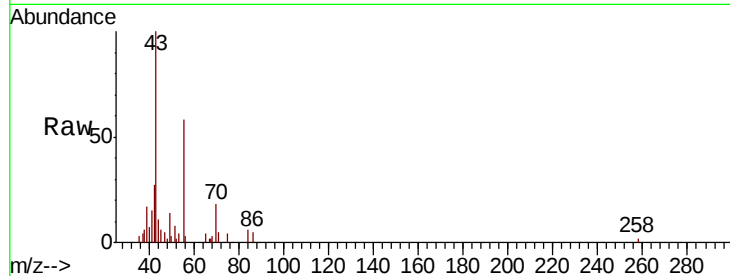
Lab File: ClientSampleId:

AP-1DUP

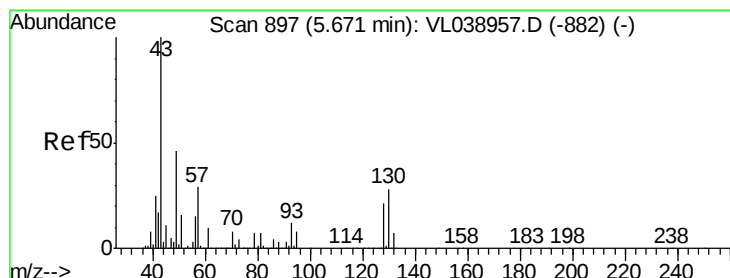
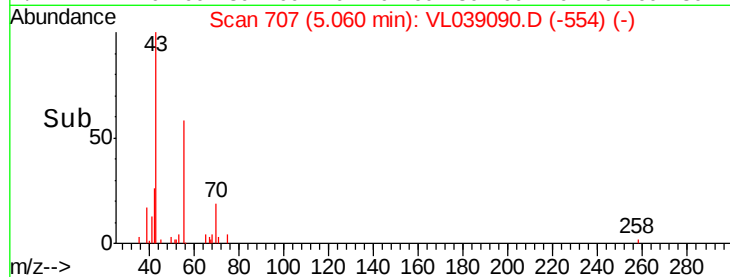
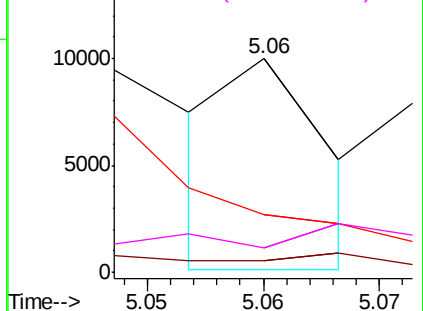
Acq: 23 May 2022 19:03

Tot Ion: 43 Resp: 2896

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.6	9.8#
42	9.9	8.1	12.1
44	0.0	3.5	5.3#



Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 86.10 (85.80 to 86.80): VL0
Ion 42.10 (41.80 to 42.80): VL0
Ion 44.10 (43.80 to 44.80): VL0



#25

Ethyl Acetate

Concen: 5.502 ppbv

RT: 5.67 min Scan# 897

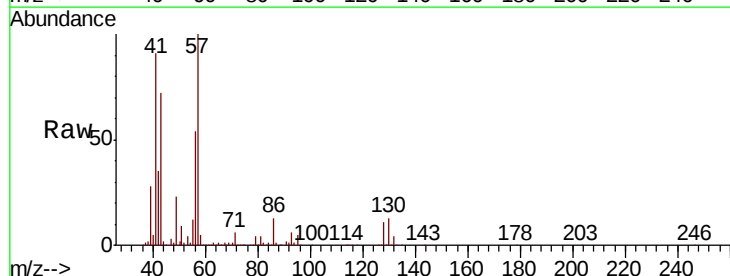
Delta R.T. 0.00 min

Lab File: VL039090.D

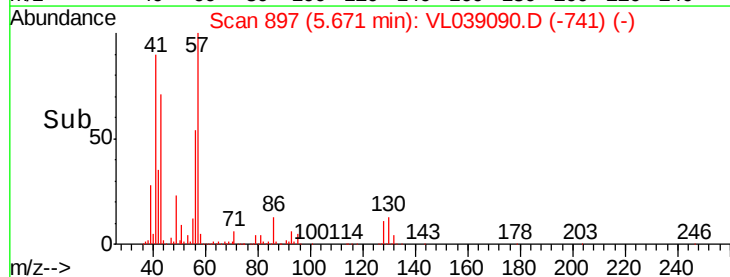
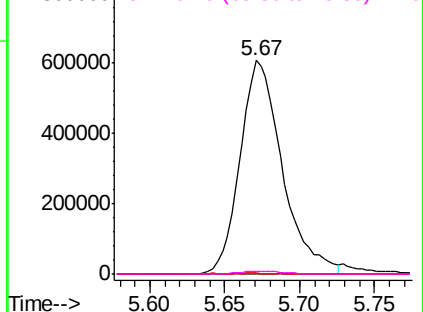
Acq: 23 May 2022 19:03

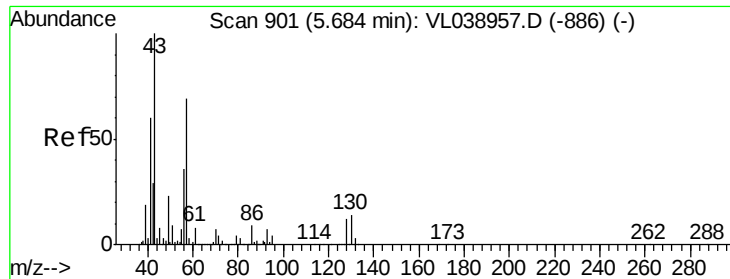
Tgt Ion: 43 Resp: 1193994

Ion	Ratio	Lower	Upper
43	100		
45	0.4	8.1	12.1#
61	0.4	7.8	11.6#
70	1.5	5.6	8.4#



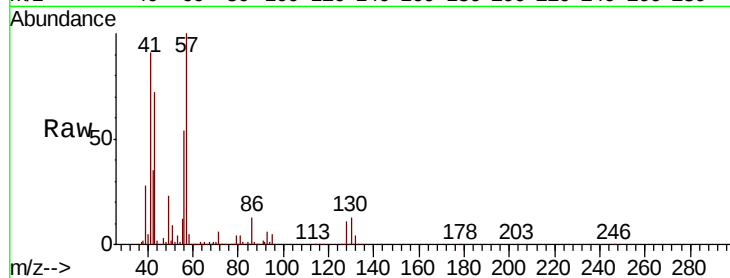
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0



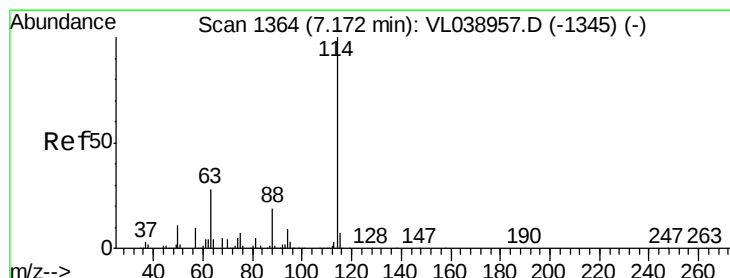
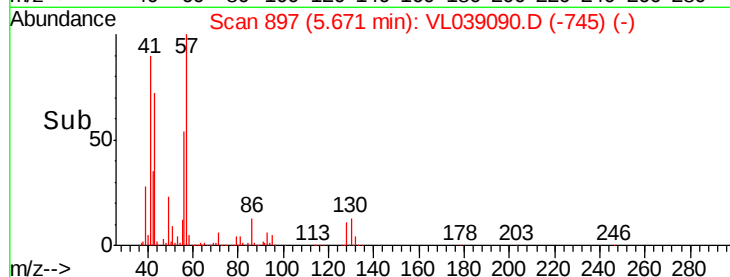
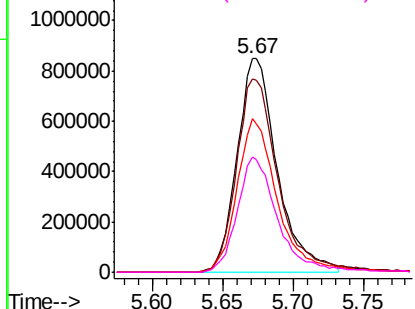


#26
Hexane
Concen: 17.587 ppbv
RT: 5.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 23 May 2022 19:03

Tot Ion:	57	Resp:	1695890
Ion	Ratio	Lower	Upper
57	100		
41	95.1	75.2	112.8
43	73.0	190.8	286.2#
56	54.6	43.0	64.6

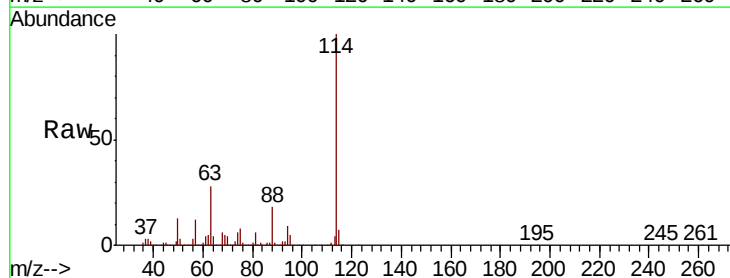


Abundance Ion 57.10 (56.80 to 57.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 43.10 (42.80 to 43.80): VL0
Ion 56.10 (55.80 to 56.80): VL0

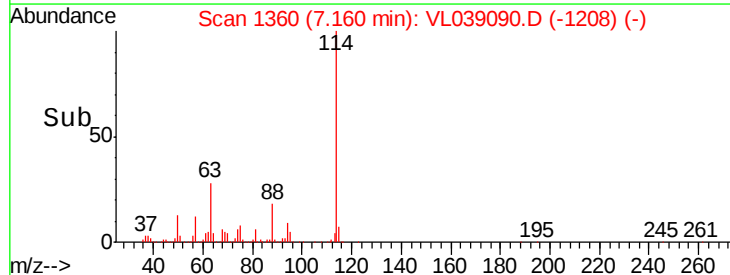
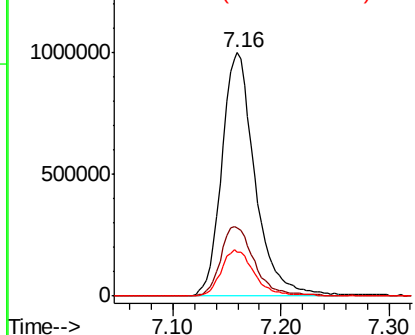


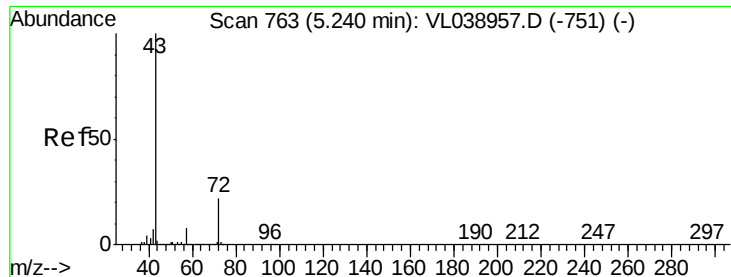
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.16 min Scan# 1360
Delta R.T. -0.01 min
Lab File: VL039090.D
Acq: 23 May 2022 19:03

Tgt Ion:	114	Resp:	2145089
Ion	Ratio	Lower	Upper
114	100		
63	29.2	22.6	33.8
88	19.2	15.4	23.0



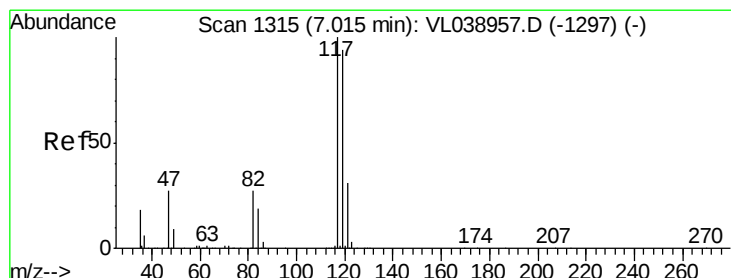
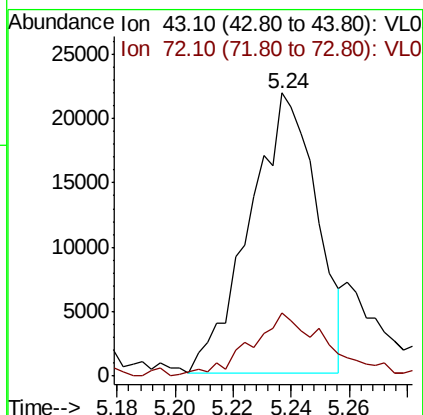
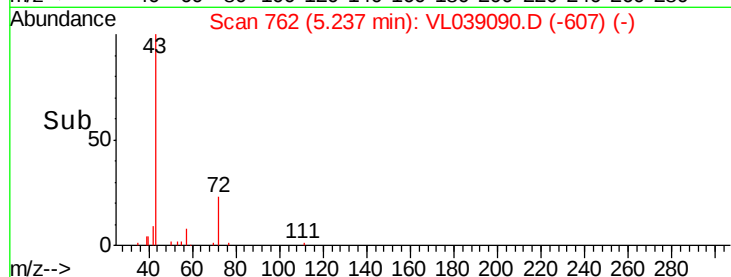
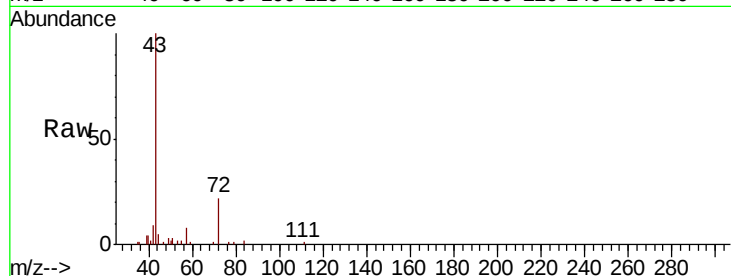
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





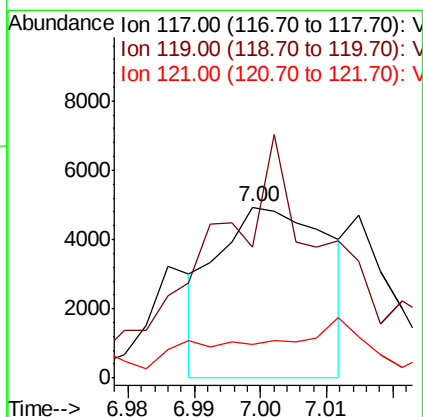
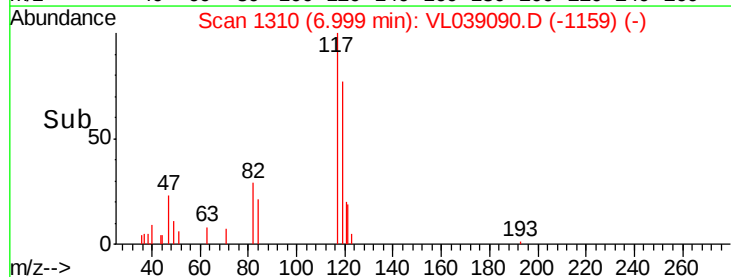
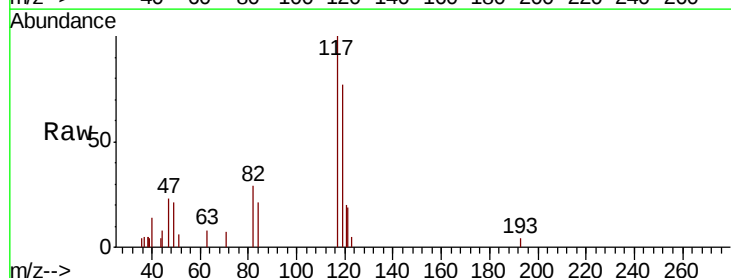
#34
2-Butanone
Concen: 0.318 ppbv
RT: 5.24
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
AP-1DUP
Acq: 23 May 2022 19:03

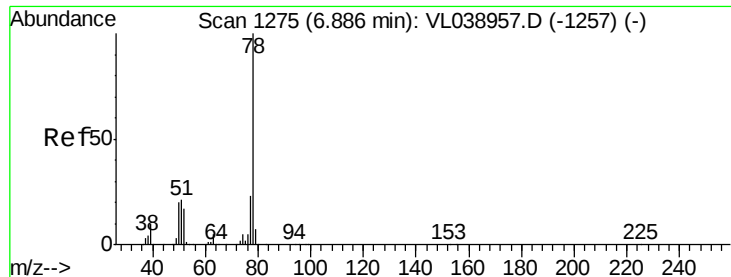
Tot Ion: 43 Resp: 34783
Ion Ratio Lower Upper
43 100
72 27.6 17.8 26.6#



#35
Carbon Tetrachloride
Concen: 0.041 ppbv
RT: 7.00 min Scan# 1310
Delta R.T. -0.02 min
Lab File: VL039090.D
Acq: 23 May 2022 19:03

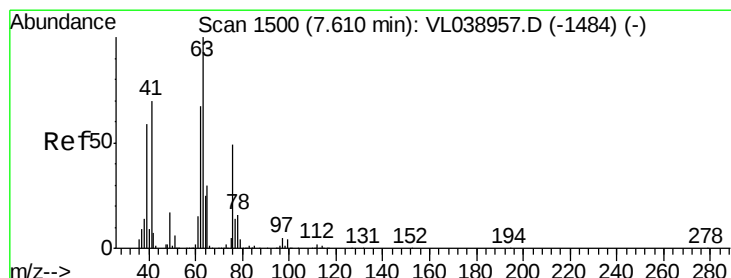
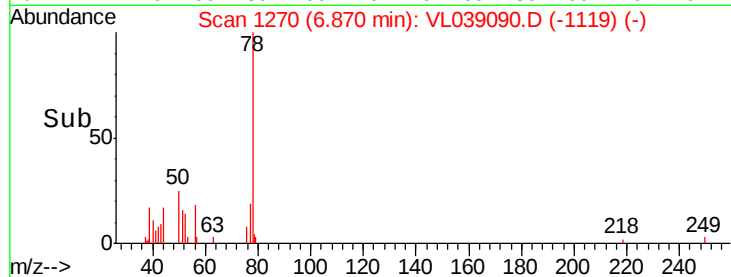
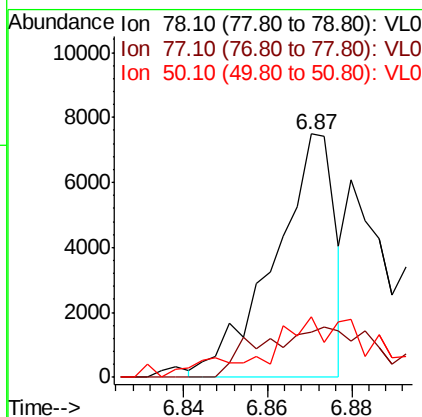
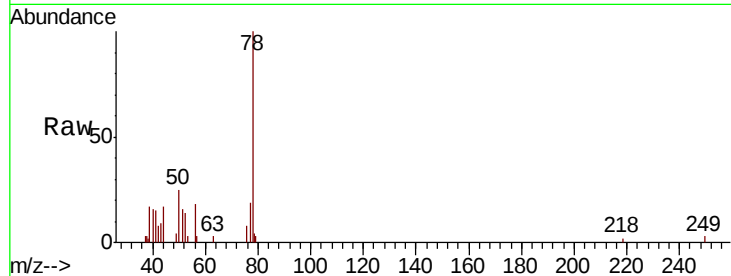
Tgt Ion: 117 Resp: 5760
Ion Ratio Lower Upper
117 100
119 54.4 75.2 112.8#
121 0.0 24.6 37.0#





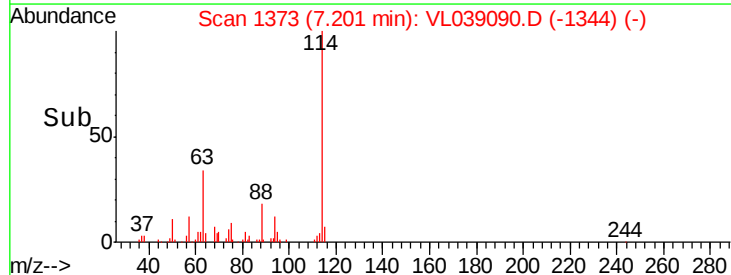
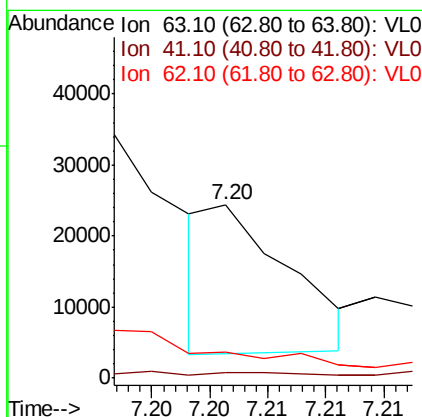
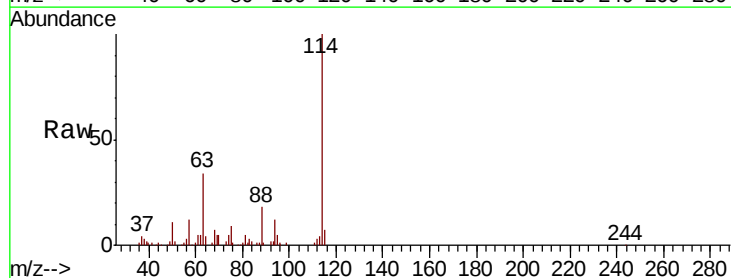
#36
Benzene
Concen: 0.041 ppbv
RT: 6.87 Instrument : MSVOA_1
Delta R.T. ClientSampleId :
Lab File: AP-1DUP
Acq: 23 May 2022 19:03

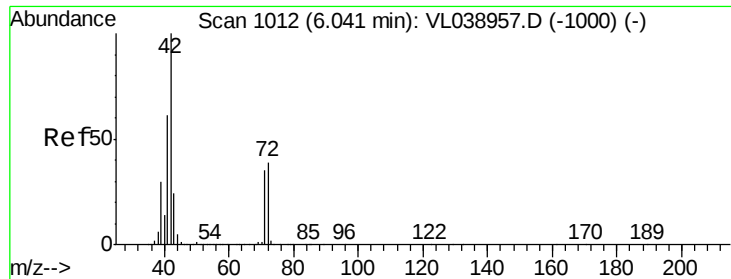
Tot Ion: 78 Resp: 7468
Ion Ratio Lower Upper
78 100
77 18.5 18.6 28.0#
50 14.1 15.6 23.4#



#39
1,2-Dichloropropane
Concen: 0.141 ppbv
RT: 7.20 min Scan# 1373
Delta R.T. -0.41 min
Lab File: VL039090.D
Acq: 23 May 2022 19:03

Tgt Ion: 63 Resp: 10082
Ion Ratio Lower Upper
63 100
41 3.2 55.9 83.9#
62 12.1 53.8 80.6#





#41

Tetrahydrofuran

Concen: 8.628 ppbv

RT: 5.67

Delta R.T. MSVOA_L

Lab File: AP-1DUP

Acq: 23 May 2022 19:03

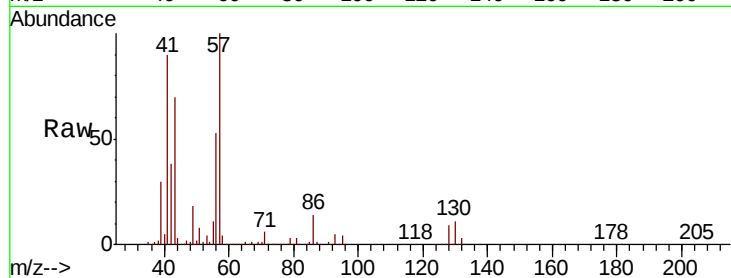
Tot Ion: 42 Resp: 634626

Ion Ratio Lower Upper

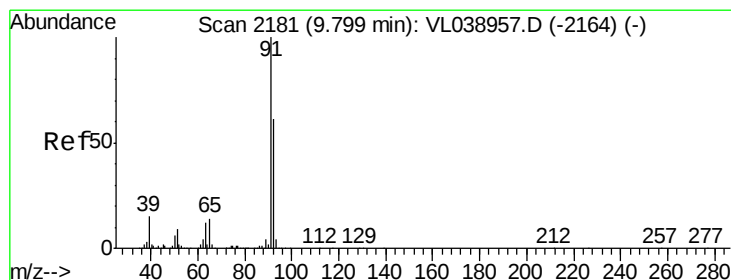
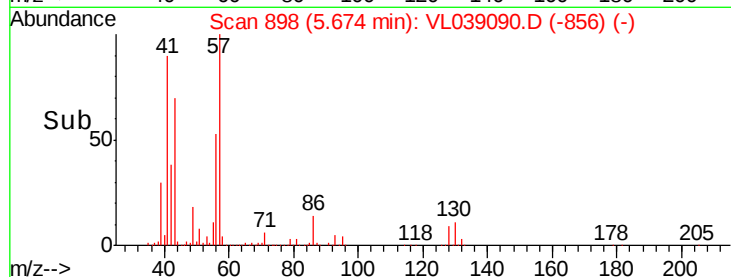
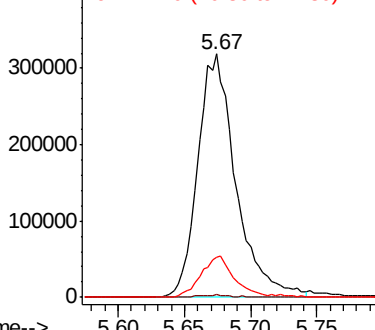
42 100

72 1.0 31.8 47.6#

71 15.7 30.6 45.8#



Abundance Ion 42.10 (41.80 to 42.80): VL0
Ion 72.10 (71.80 to 72.80): VL0
Ion 71.10 (70.80 to 71.80): VL0



#53

Toluene

Concen: 0.087 ppbv

RT: 9.78 min Scan# 2176

Delta R.T. -0.02 min

Lab File: VL039090.D

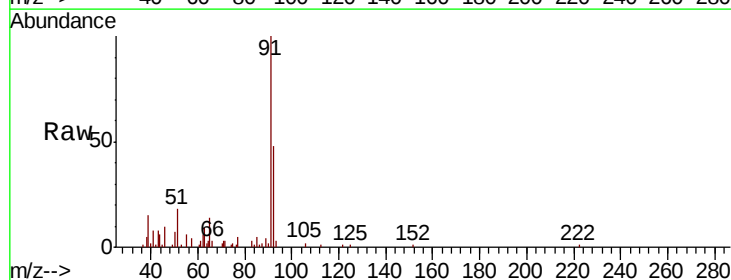
Acq: 23 May 2022 19:03

Tgt Ion: 91 Resp: 17843

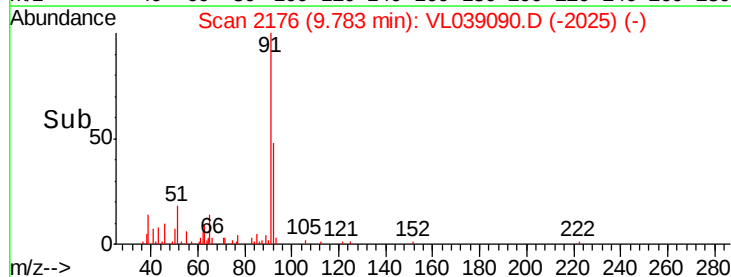
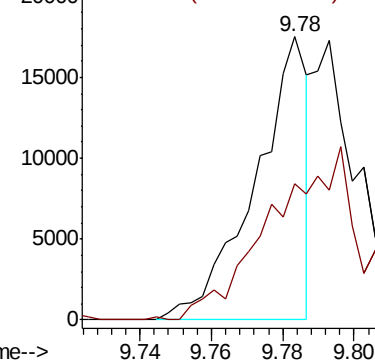
Ion Ratio Lower Upper

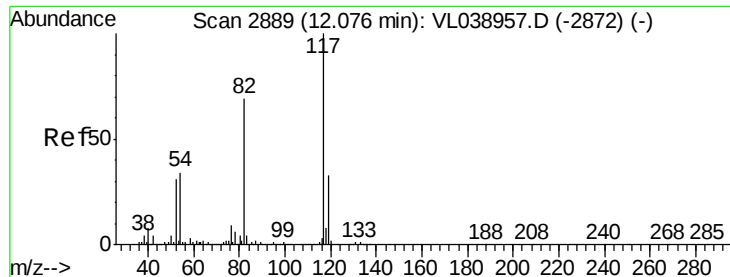
91 100

92 0.0 48.2 72.2#



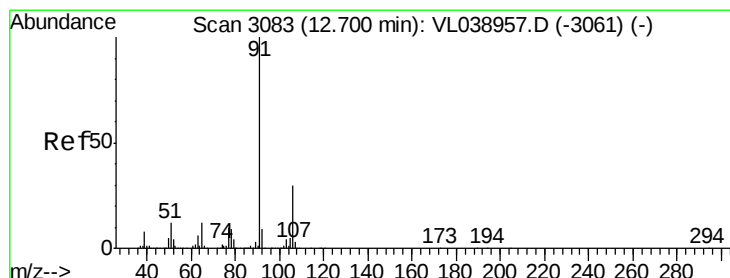
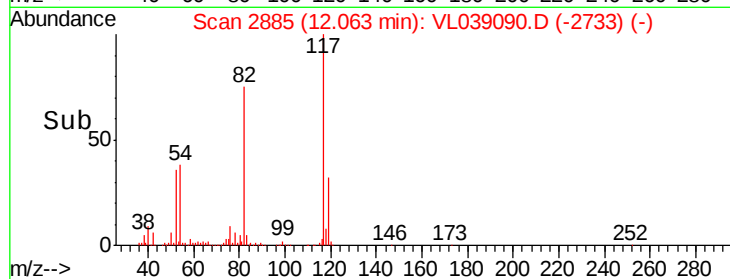
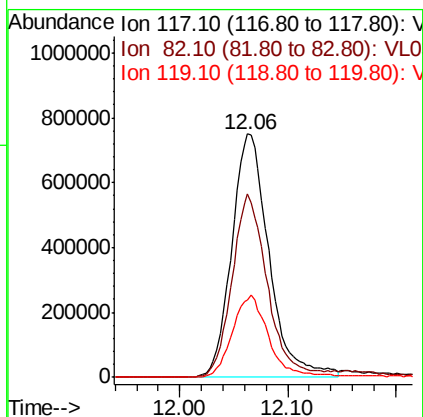
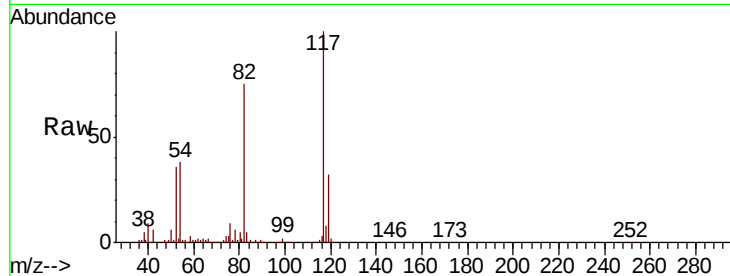
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0





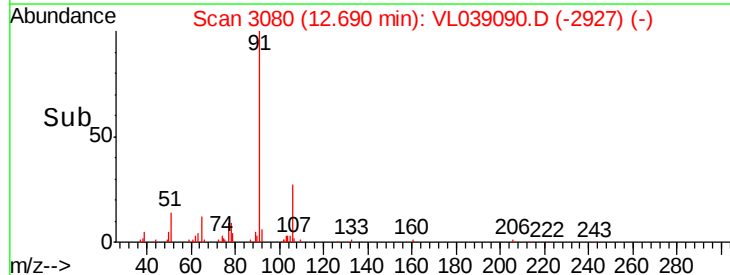
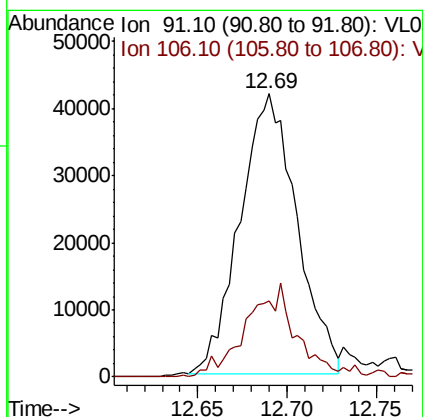
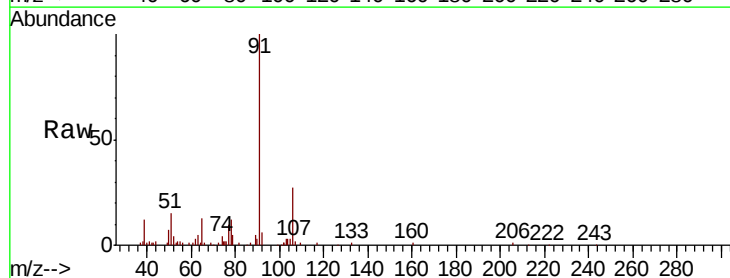
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.06 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
AP-1DUP
Acq: 23 May 2022 19:03

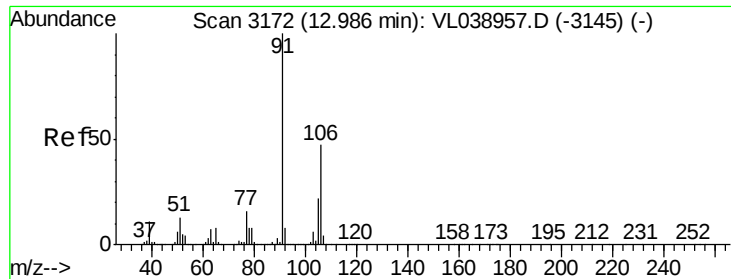
Tot Ion:117 Resp: 1806725
Ion Ratio Lower Upper
117 100
82 71.6 57.0 85.6
119 33.5 27.2 40.8



#58
Ethyl Benzene
Concen: 0.358 ppbv
RT: 12.69 min Scan# 3080
Delta R.T. -0.01 min
Lab File: VL039090.D
Acq: 23 May 2022 19:03

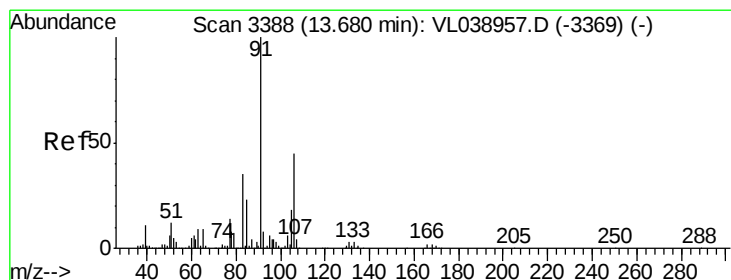
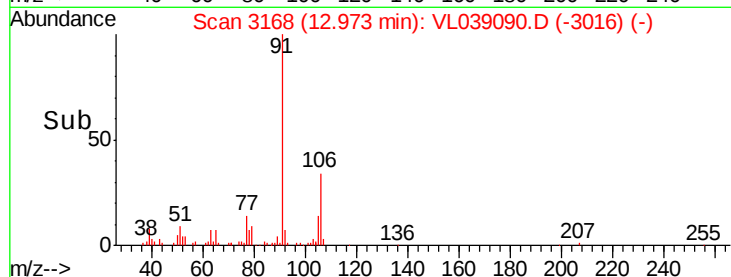
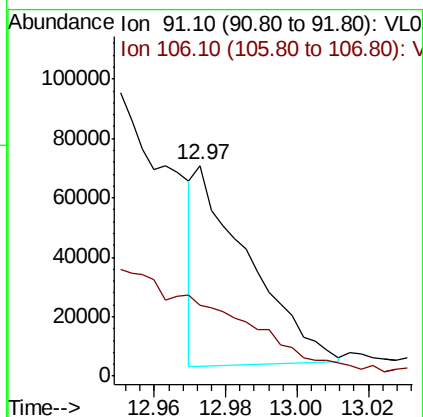
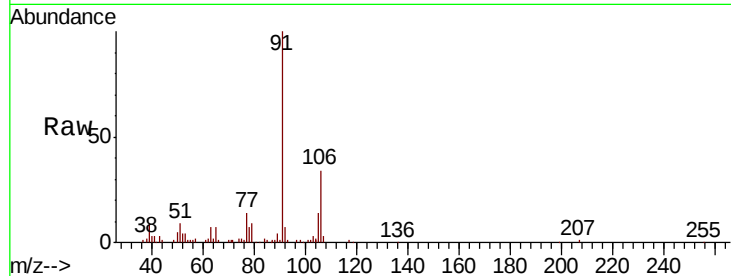
Tgt Ion: 91 Resp: 93016
Ion Ratio Lower Upper
91 100
106 27.1 24.2 36.4





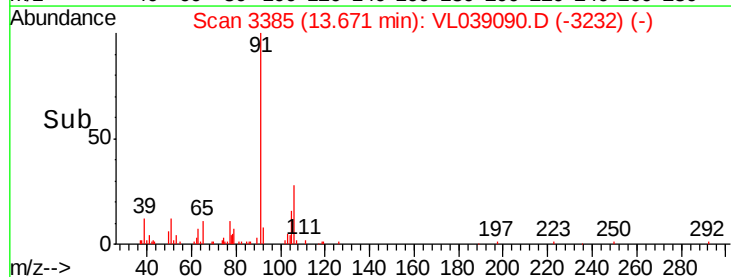
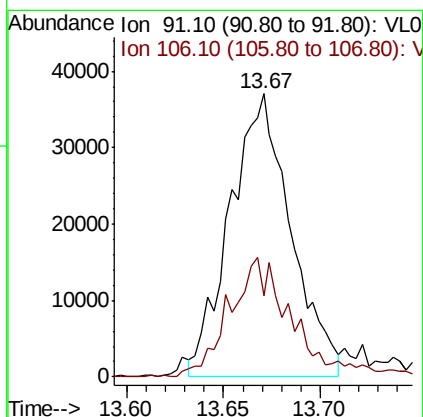
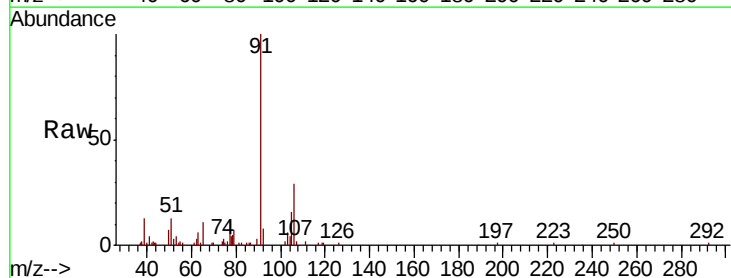
#59
m/p-Xylene
Concen: 0.315 ppbv
RT: 12.97 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
AP-1DUP
Acq: 23 May 2022 19:03

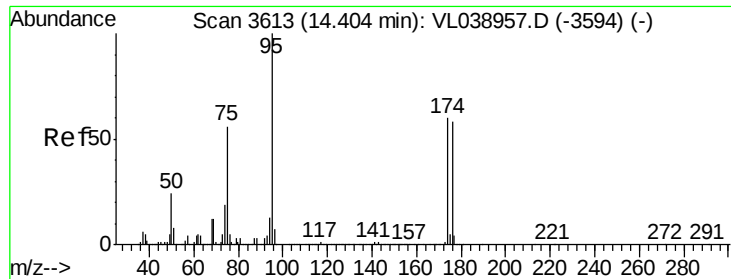
Tot Ion: 91 Resp: 70016
Ion Ratio Lower Upper
91 100
106 0.0 34.6 52.0#



#60
o-Xylene
Concen: 0.388 ppbv
RT: 13.67 min Scan# 3385
Delta R.T. -0.01 min
Lab File: VL039090.D
Acq: 23 May 2022 19:03

Tgt Ion: 91 Resp: 81106
Ion Ratio Lower Upper
91 100
106 44.8 22.2 66.6





#68

1-Bromo-4-Fluorobenzene

Concen: 10.760 ppbv

RT: 14.39

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

AP-1DUP

Acq: 23 May 2022 19:03

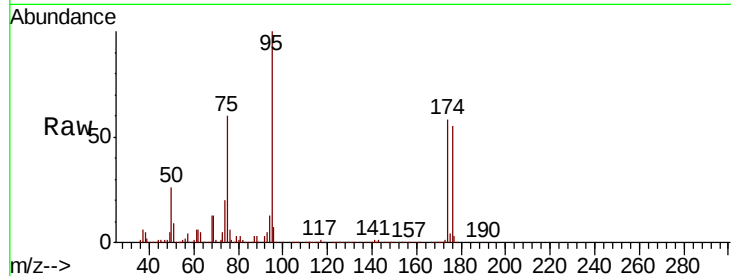
Tot Ion: 95 Resp: 1539599

Ion Ratio Lower Upper

95 100

174 62.9 50.8 76.2

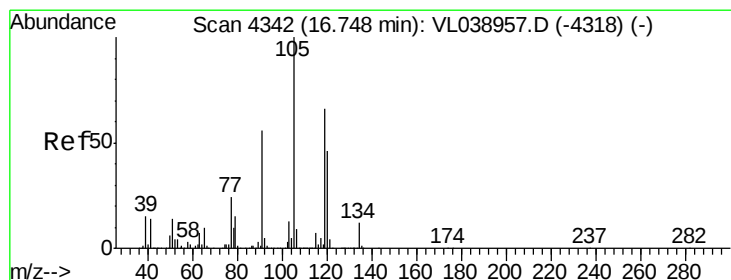
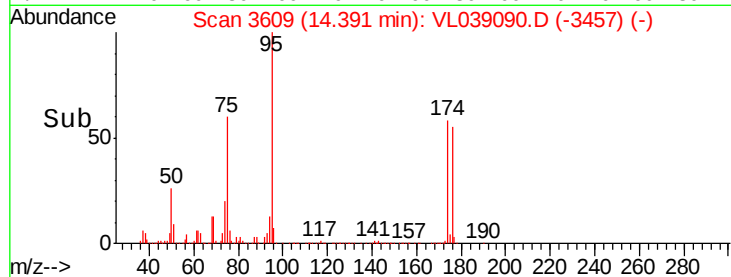
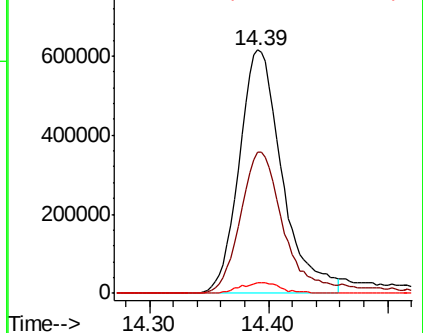
175 4.6 3.8 5.6



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: 0.181 ppbv

RT: 16.74 min Scan# 4340

Delta R.T. -0.01 min

Lab File: VL039090.D

Acq: 23 May 2022 19:03

Tgt Ion: 105 Resp: 42512

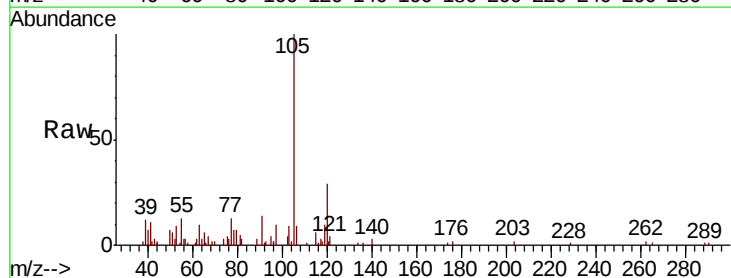
Ion Ratio Lower Upper

105 100

120 29.9 36.9 55.3#

91 15.8 45.0 67.4#

77 11.9 19.2 28.8#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

