

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030122\
 Data File : VL038472.D
 Acq On : 2 Mar 2022 4:54
 Operator : SY/AP
 Sample : N1723-04DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FSG4DL

Quant Time: Mar 02 06:05:21 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	857644	10.00	ppbv	0.02
33) 1,4-Difluorobenzene	7.18	114	2206330	10.00	ppbv	0.02
55) Chlorobenzene-d5	12.08	117	1905754	10.00	ppbv	0.03

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	1451382	9.20	ppbv	0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.00%	

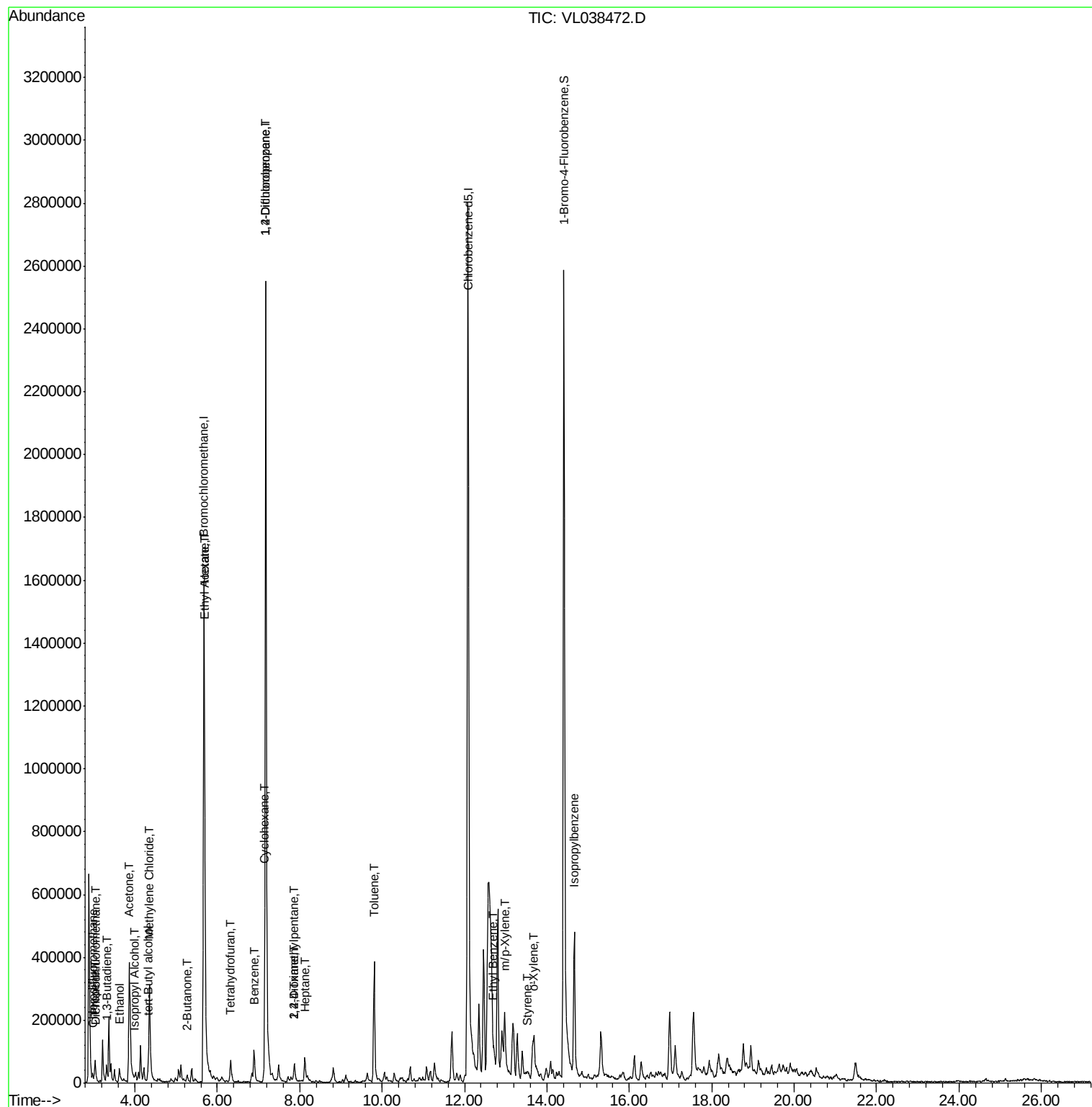
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.05	85	6501	0.05	ppbv	92
3) Chlorodifluoromethane	2.97	51	22509	0.15	ppbv #	64
9) Propene	3.03	41	22954	0.46	ppbv #	83
10) Heptane	8.12	43	19903	0.16	ppbv #	37
13) Ethanol	3.62	45	45677	9.15	ppbv	95
15) Acetone	3.86	43	551560	7.56	ppbv	100
16) 1,3-Butadiene	3.31	39	9604	0.20	ppbv #	41
17) tert-Butyl alcohol	4.32	59	11806	0.16	ppbv #	66
19) Isopropyl Alcohol	3.99	45	4015	0.10	ppbv #	93
20) Methylene Chloride	4.35	84	130171	3.60	ppbv	98
25) Ethyl Acetate	5.69	43	174896	0.89	ppbv #	78
26) Hexane	5.69	57	248149	2.80	ppbv #	43
30) Cyclohexane	7.14	84	4585	0.06	ppbv #	1
34) 2-Butanone	5.27	43	26045	0.38	ppbv #	80
36) Benzene	6.89	78	91442	0.47	ppbv #	89
39) 1,2-Dichloropropane	7.17	63	554672	7.17	ppbv #	24
40) 1,4-Dioxane	7.87	88	8595	0.47	ppbv #	1
41) Tetrahydrofuran	6.31	42	3991	0.09	ppbv #	40
44) 2,2,4-Trimethylpentane	7.87	57	27867	0.08	ppbv #	48
53) Toluene	9.81	91	317025	1.50	ppbv	99
58) Ethyl Benzene	12.71	91	35722	0.14	ppbv	96
59) m/p-Xylene	12.99	91	14113	0.06	ppbv #	33
60) o-Xylene	13.69	91	10411	0.05	ppbv #	32
61) Styrene	13.53	104	3572	0.04	ppbv #	66
62) Isopropylbenzene	14.66	105	428644	1.51	ppbv	99

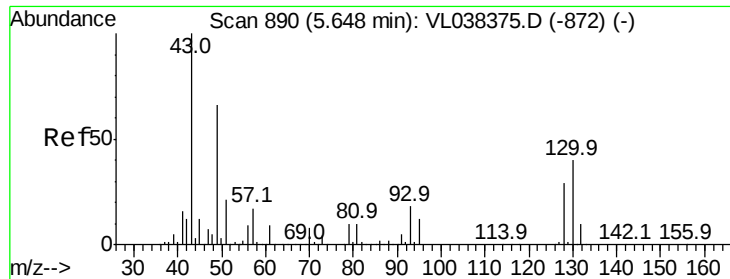
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 2 Mar 2022 4:54

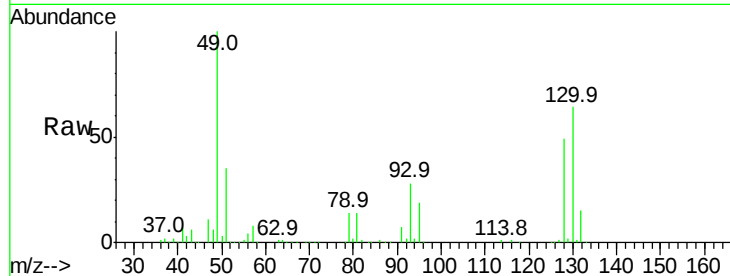
Tgt Ion: 49 Resp: 857644

Ion Ratio Lower Upper

49 100

128 50.1 24.3 72.9

130 63.4 30.1 90.5



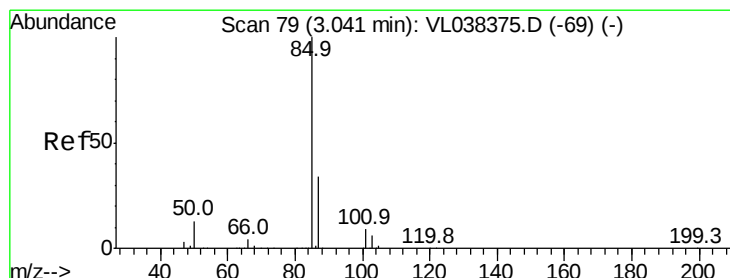
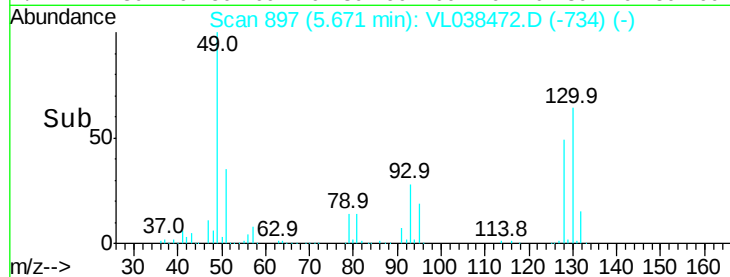
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): VL0

Ion 130.00 (129.70 to 130.70): VL0

5.67

Time-->



#2

Dichlorodifluoromethane

Concen: 0.05 ppbv

RT: 3.05 min Scan# 83

Delta R.T. 0.01 min

Lab File: VL038472.D

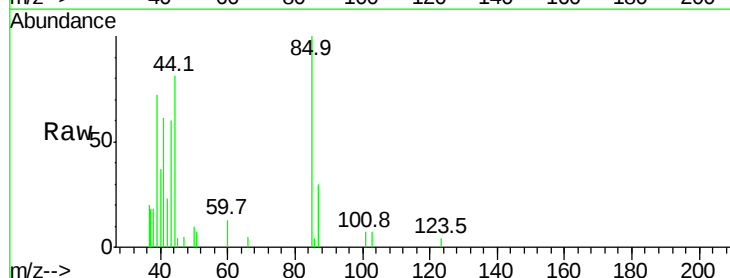
Acq: 2 Mar 2022 4:54

Tgt Ion: 85 Resp: 6501

Ion Ratio Lower Upper

85 100

87 29.8 27.4 41.0

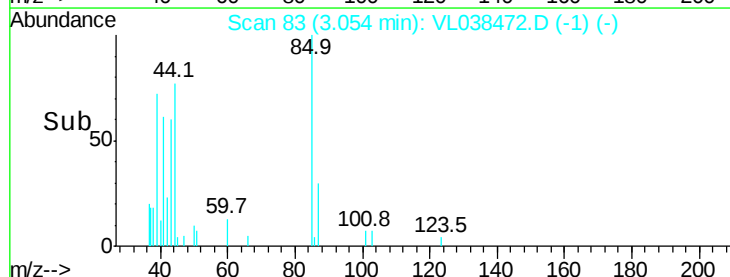


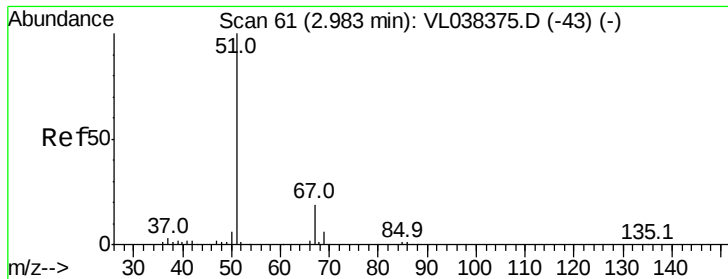
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.05

Time-->





#3

Chlorodifluoromethane

Concen: 0.15 ppbv

RT: 2.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

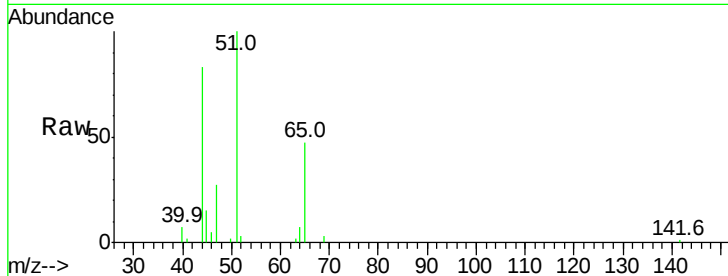
Acq: 2 Mar 2022 4:54

Tgt Ion: 51 Resp: 22509

Ion Ratio Lower Upper

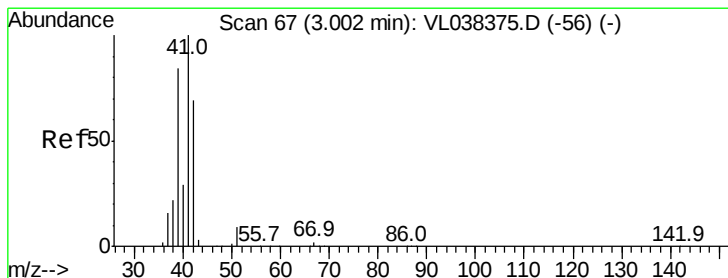
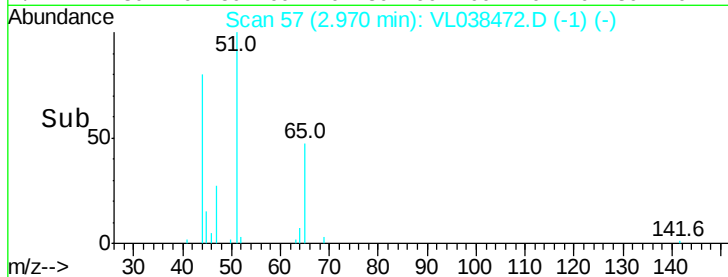
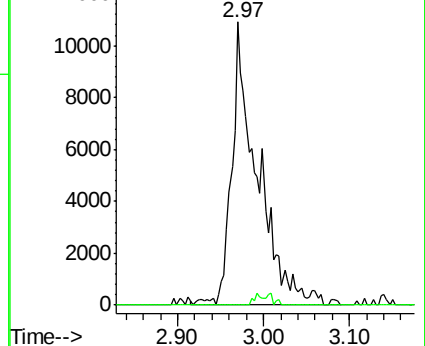
51 100

67 2.5 14.7 22.1#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.46 ppbv

RT: 3.03 min Scan# 76

Delta R.T. 0.03 min

Lab File: VL038472.D

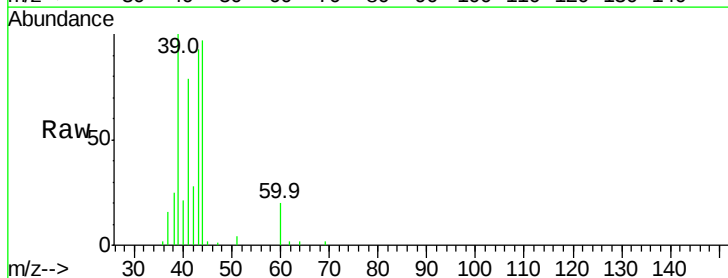
Acq: 2 Mar 2022 4:54

Tgt Ion: 41 Resp: 22954

Ion Ratio Lower Upper

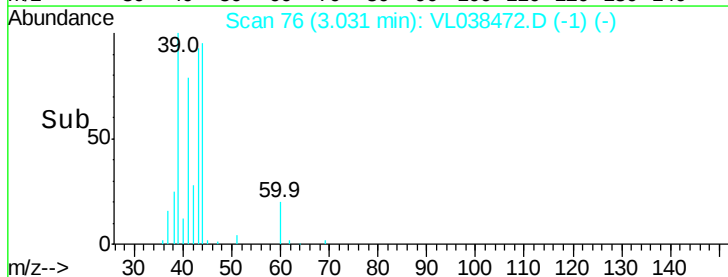
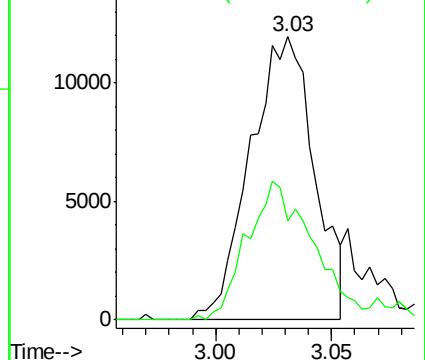
41 100

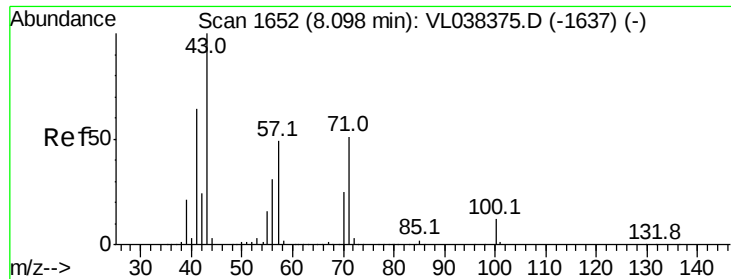
42 54.6 54.6 82.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 0.16 ppbv

RT: 8.12 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

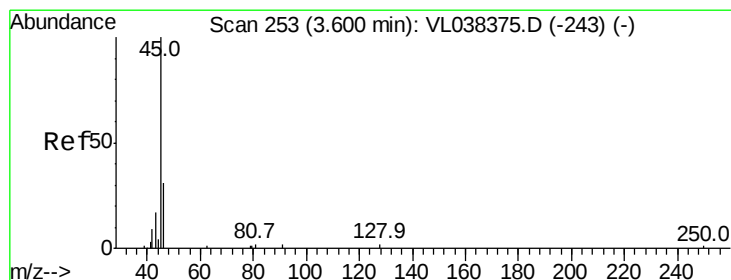
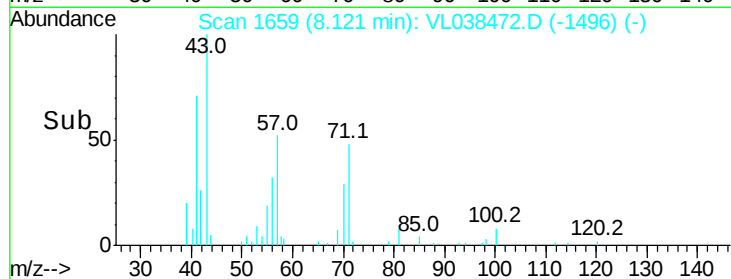
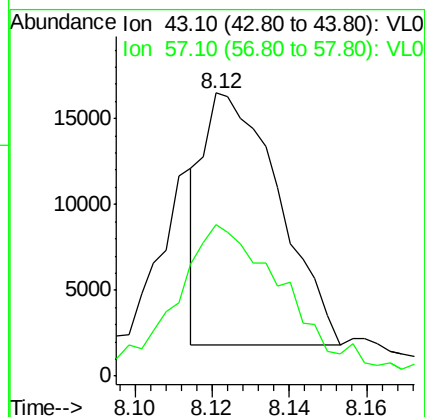
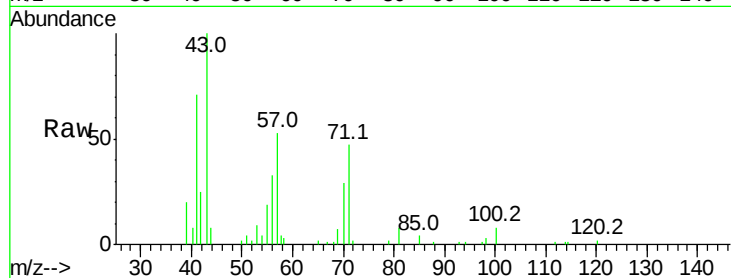
Acq: 2 Mar 2022 4:54

Tgt Ion: 43 Resp: 19903

Ion Ratio Lower Upper

43 100

57 93.1 39.8 59.8#



#13

Ethanol

Concen: 9.15 ppbv

RT: 3.62 min Scan# 260

Delta R.T. 0.02 min

Lab File: VL038472.D

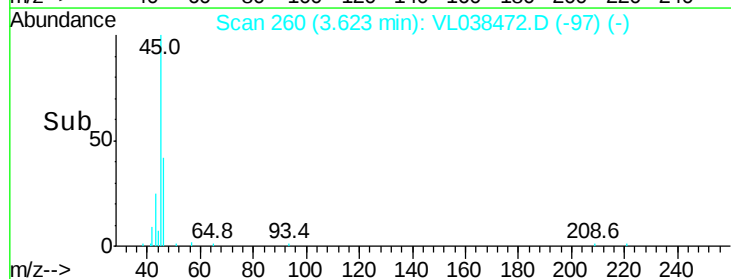
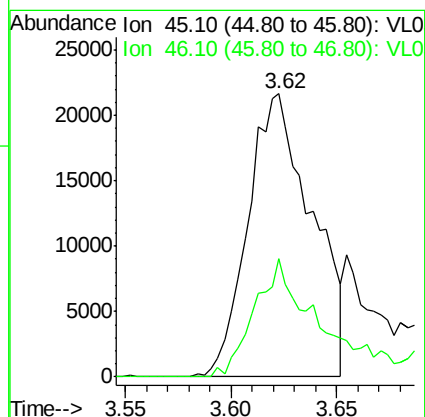
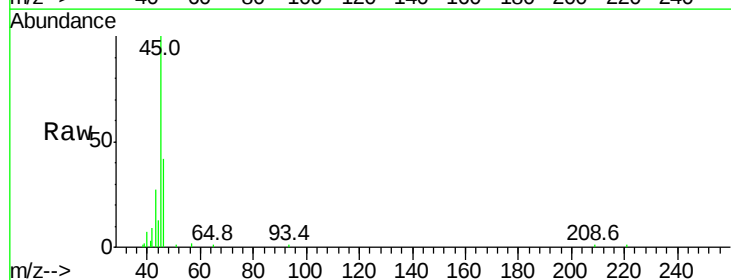
Acq: 2 Mar 2022 4:54

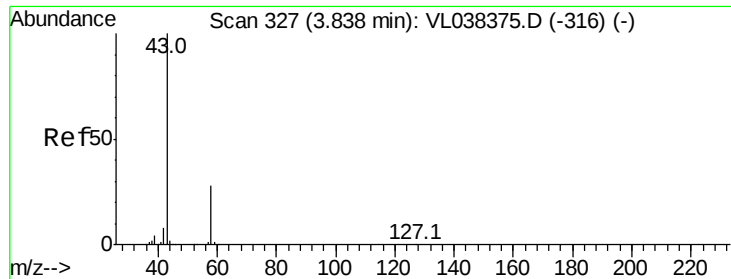
Tgt Ion: 45 Resp: 45677

Ion Ratio Lower Upper

45 100

46 49.0 18.2 72.8





#15

Acetone

Concen: 7.56 ppbv

RT: 3.86 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: FSG4DL

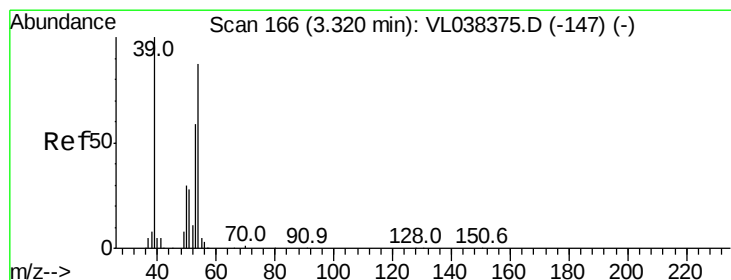
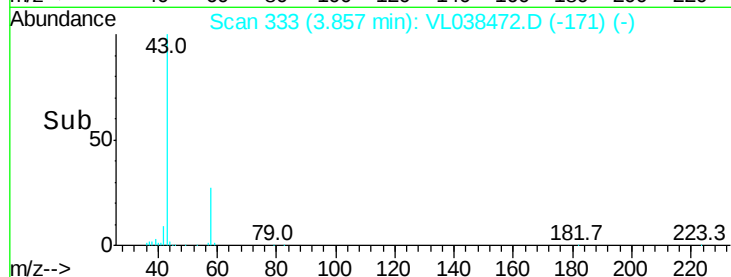
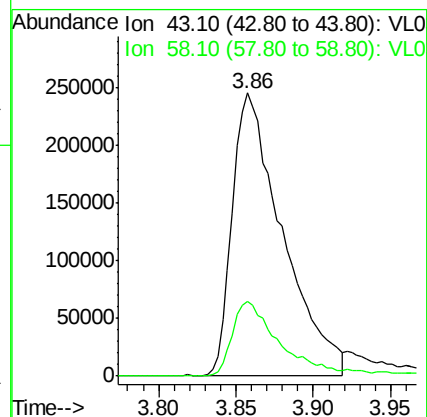
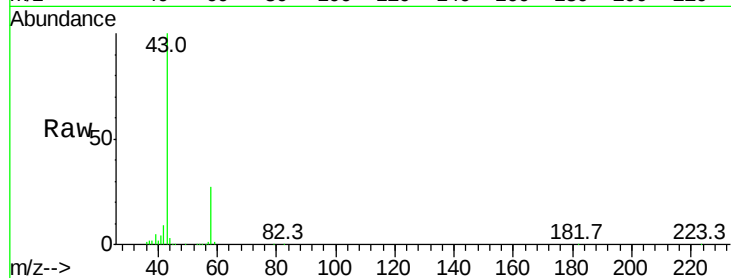
Acq: 2 Mar 2022 4:54

Tgt Ion: 43 Resp: 551560

Ion Ratio Lower Upper

43 100

58 26.9 21.7 32.5



#16

1,3-Butadiene

Concen: 0.20 ppbv

RT: 3.31 min Scan# 164

Delta R.T. -0.01 min

Lab File: VL038472.D

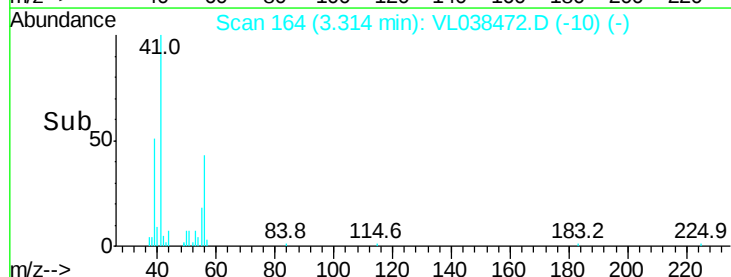
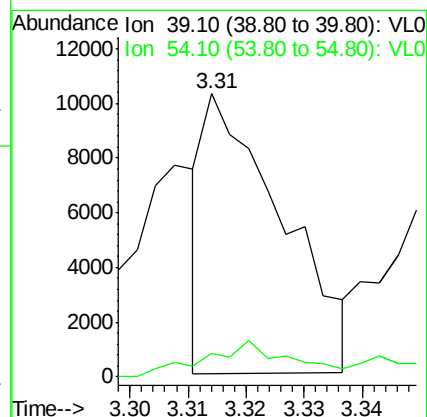
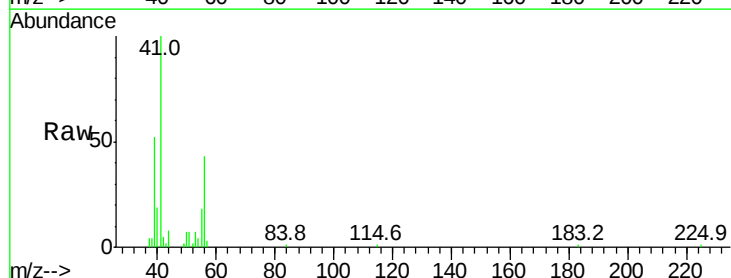
Acq: 2 Mar 2022 4:54

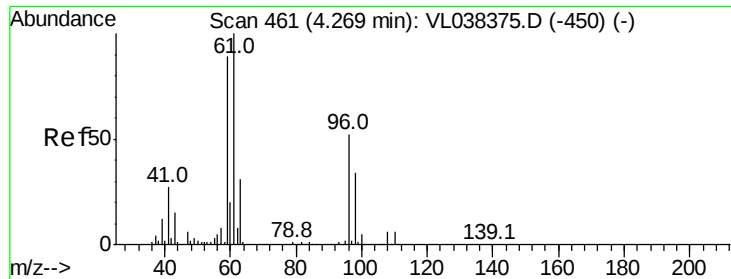
Tgt Ion: 39 Resp: 9604

Ion Ratio Lower Upper

39 100

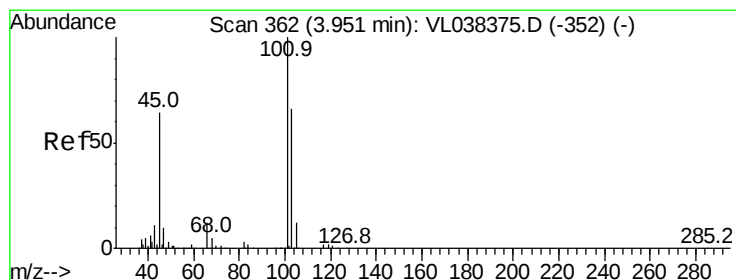
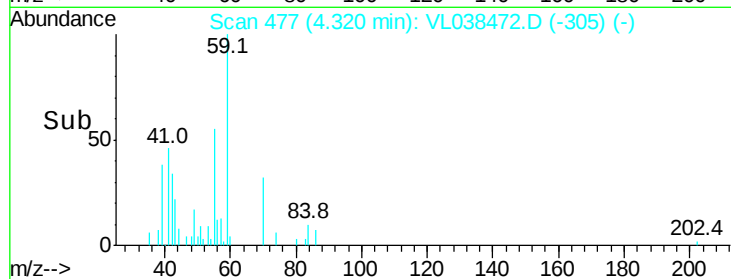
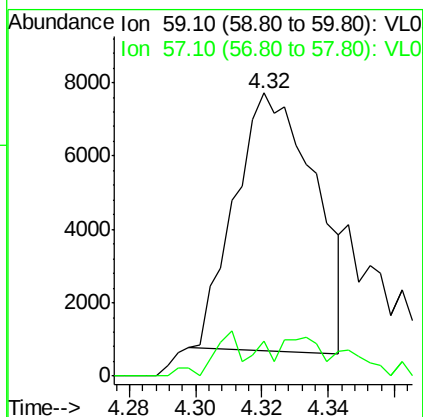
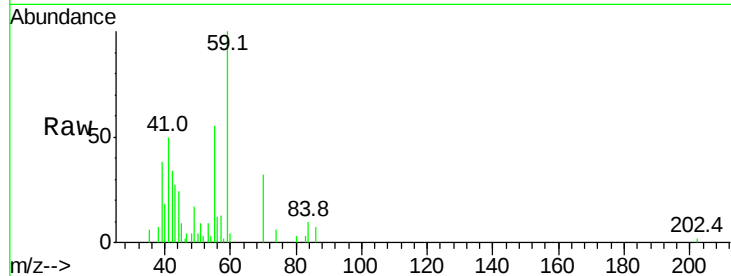
54 25.4 60.3 90.5#





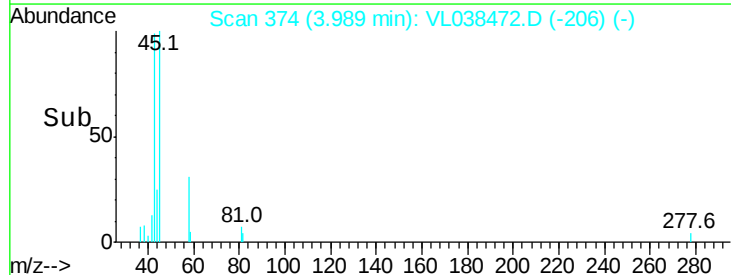
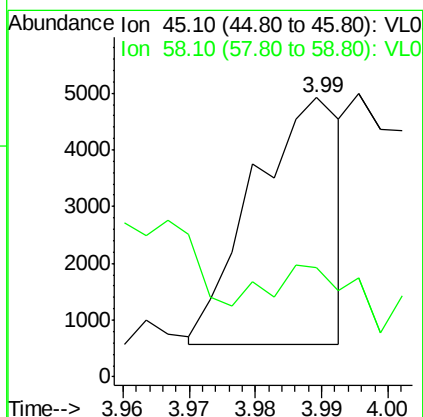
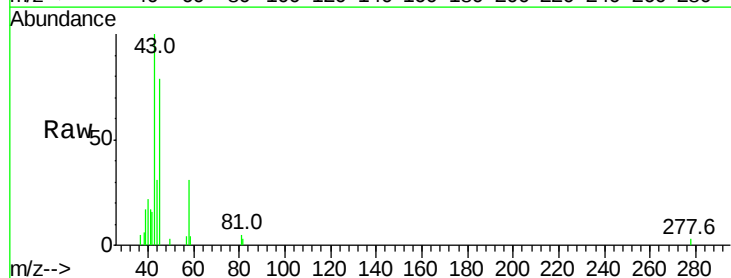
#17
 tert-Butyl alcohol
 Concen: 0.16 ppbv
 RT: 4.32
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 FSG4DL
 Acq: 2 Mar 2022 4:54

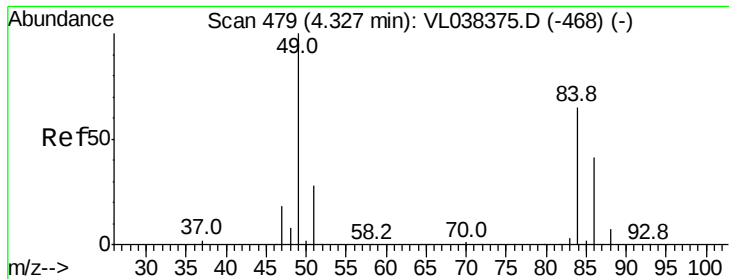
Tgt Ion: 59 Resp: 11806
 Ion Ratio Lower Upper
 59 100
 57 23.3 8.4 12.6#



#19
 Isopropyl Alcohol
 Concen: 0.10 ppbv
 RT: 3.99 min Scan# 374
 Delta R.T.: 0.04 min
 Lab File: VL038472.D
 Acq: 2 Mar 2022 4:54

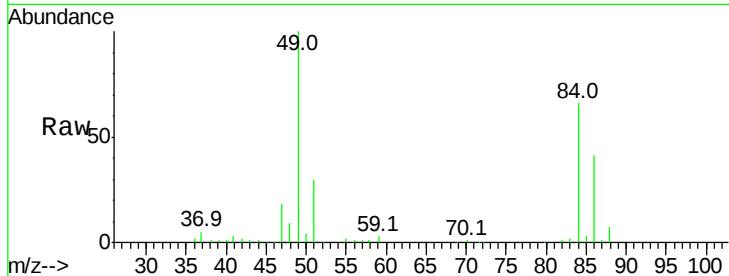
Tgt Ion: 45 Resp: 4015
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.8 2.8#





#20
Methylene Chloride
Concen: 3.60 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 2 Mar 2022 4:54

Tgt Ion:	84	Resp:	130171
Ion	Ratio	Lower	Upper
84	100		
49	150.5	122.4	183.6
51	43.6	33.3	49.9
86	62.1	50.7	76.1



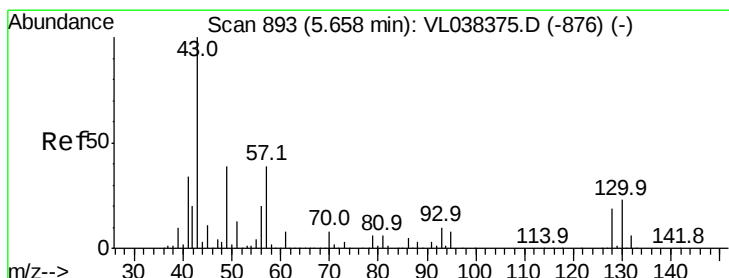
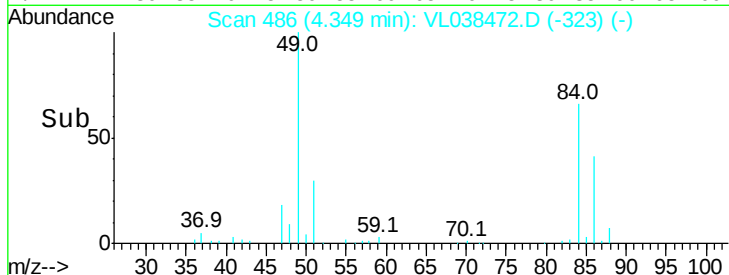
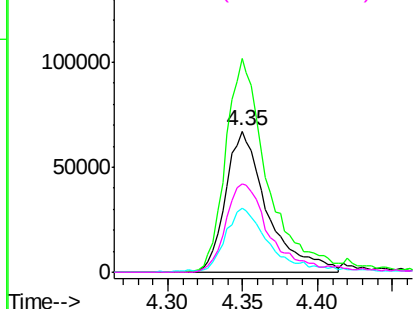
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

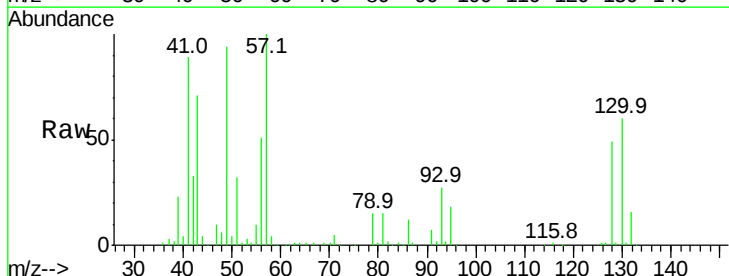
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#25
Ethyl Acetate
Concen: 0.89 ppbv
RT: 5.69 min Scan# 904
Delta R.T. 0.04 min
Lab File: VL038472.D
Acq: 2 Mar 2022 4:54

Tgt Ion:	43	Resp:	174896
Ion	Ratio	Lower	Upper
43	100		
45	0.4	7.8	11.6#
61	0.2	7.5	11.3#
70	2.0	5.4	8.0#



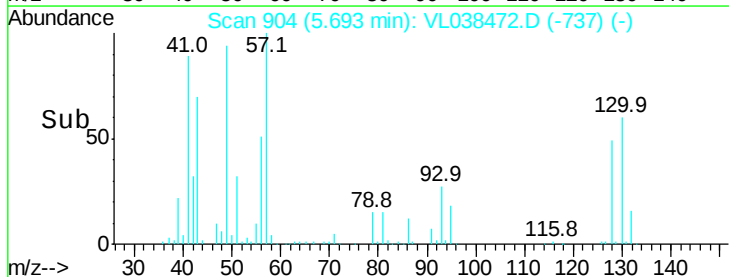
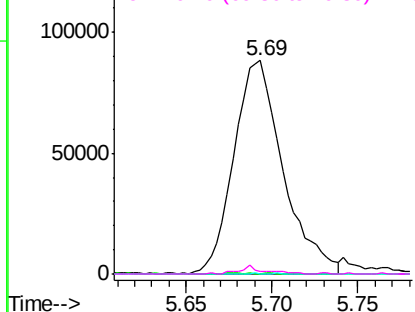
Abundance

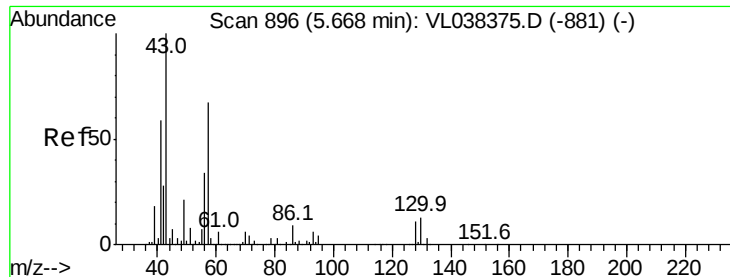
Ion 43.10 (42.80 to 43.80): VL0

Ion 45.10 (44.80 to 45.80): VL0

Ion 61.10 (60.80 to 61.80): VL0

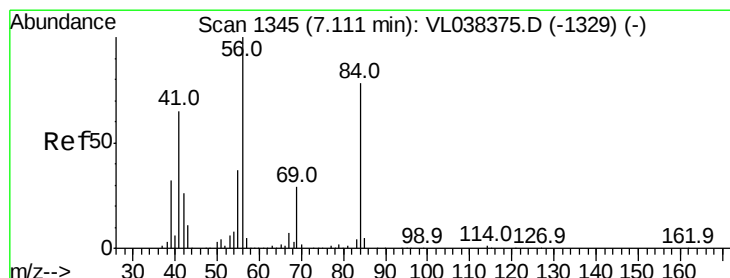
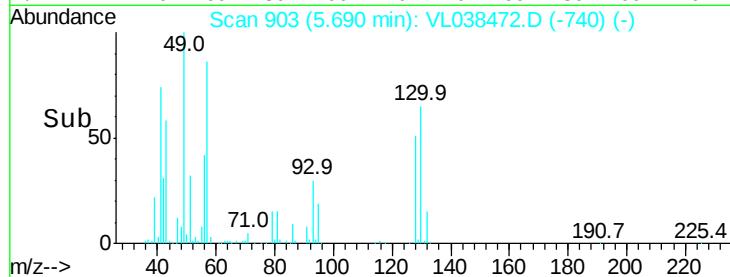
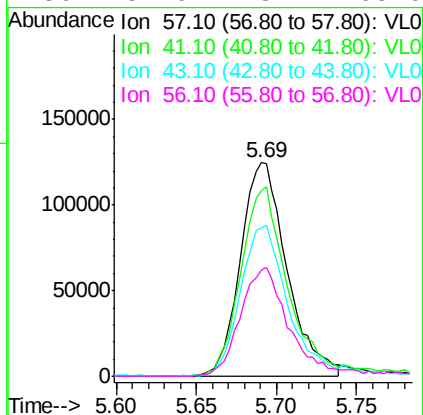
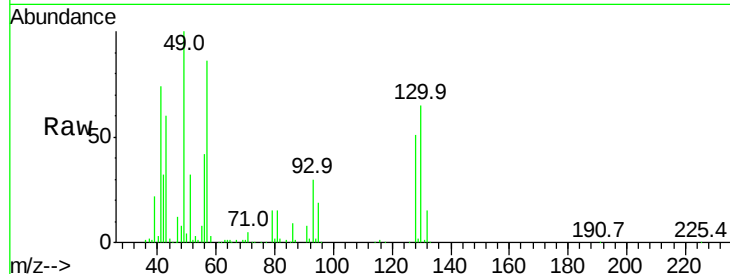
Ion 70.10 (69.80 to 70.80): VL0





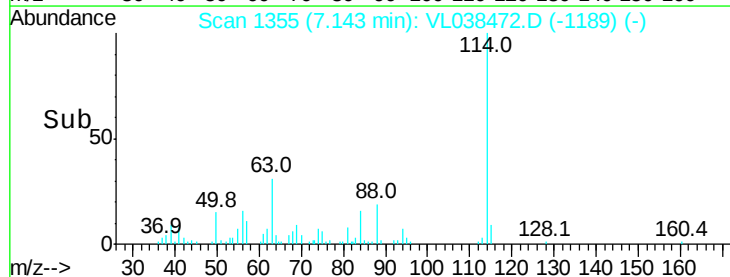
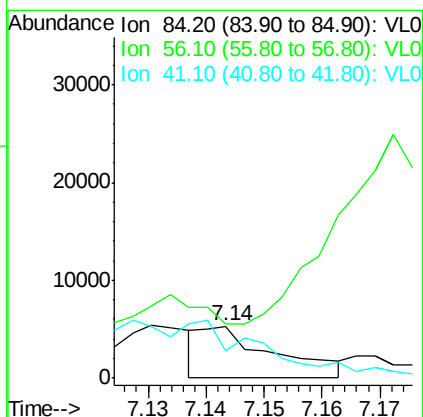
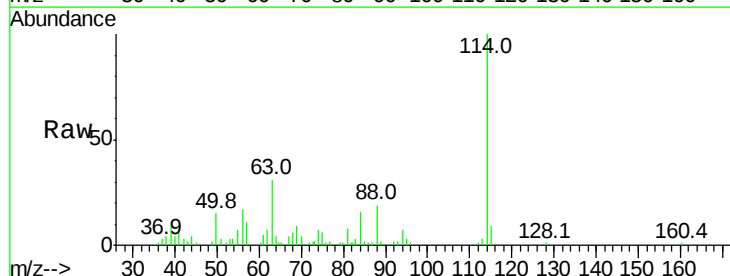
#26
Hexane
Concen: 2.80 ppbv
RT: 5.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 4:54

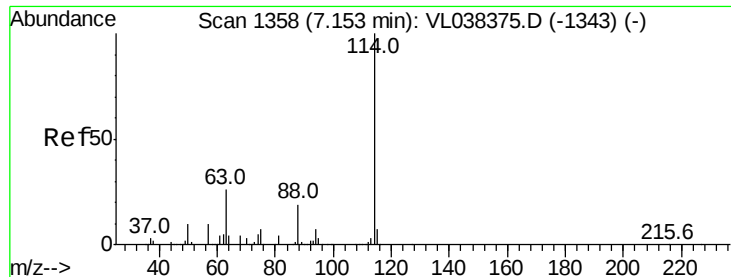
Tgt Ion:	57	Resp:	248149
Ion	Ratio	Lower	Upper
57	100		
41	93.1	73.1	109.7
43	73.4	181.0	271.4#
56	54.9	43.4	65.0



#30
Cyclohexane
Concen: 0.06 ppbv
RT: 7.14 min Scan# 1355
Delta R.T. 0.03 min
Lab File: VL038472.D
Acq: 2 Mar 2022 4:54

Tgt Ion:	84	Resp:	4585
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

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 2 Mar 2022 4:54

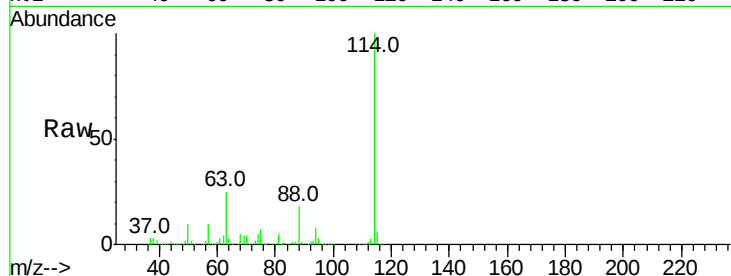
Tgt Ion:114 Resp: 2206330

Ion Ratio Lower Upper

114 100

63 25.7 22.2 33.2

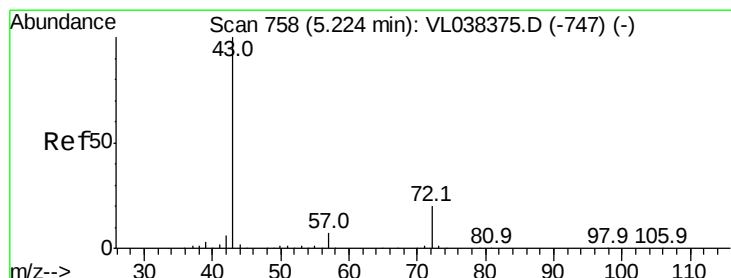
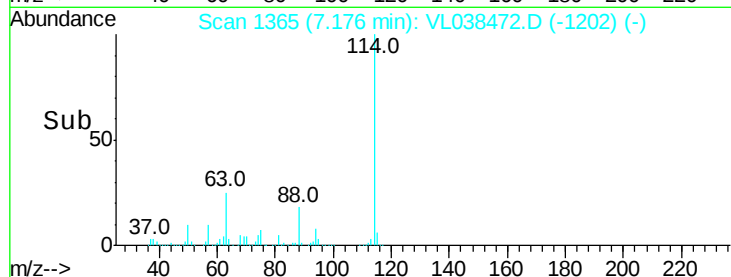
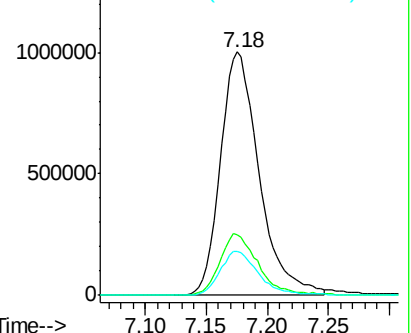
88 18.4 15.2 22.8



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: 0.38 ppbv

RT: 5.27 min Scan# 771

Delta R.T. 0.04 min

Lab File: VL038472.D

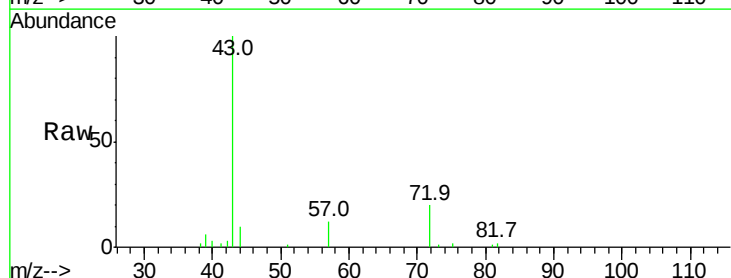
Acq: 2 Mar 2022 4:54

Tgt Ion: 43 Resp: 26045

Ion Ratio Lower Upper

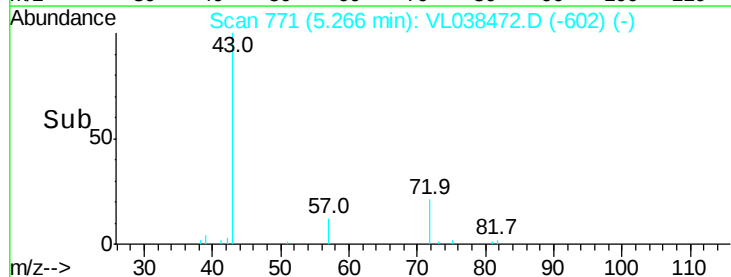
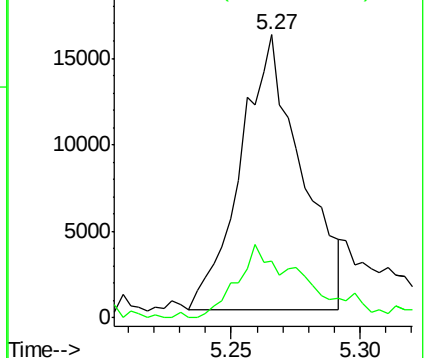
43 100

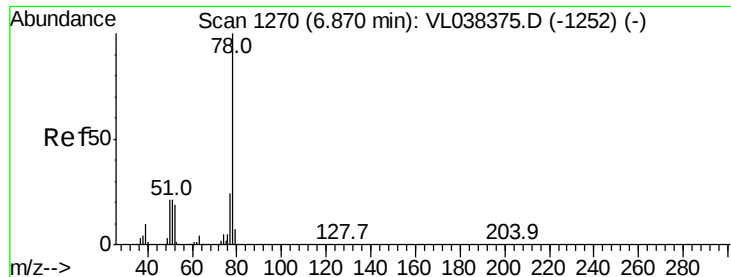
72 31.2 17.4 26.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0

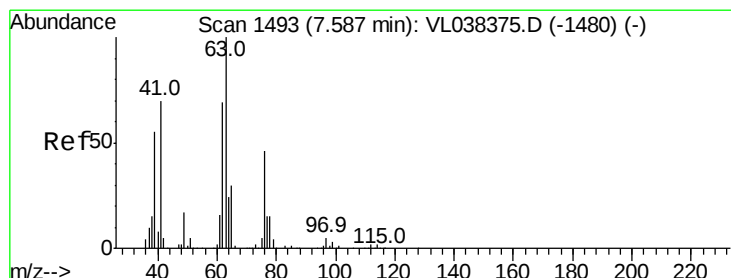
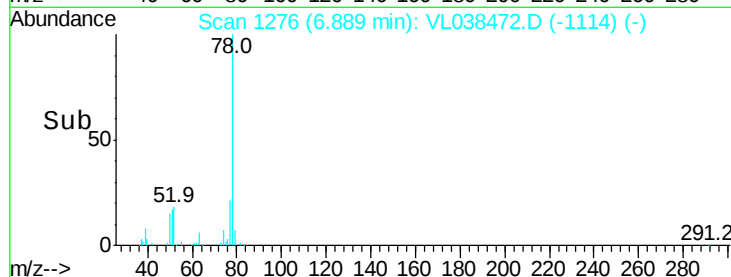
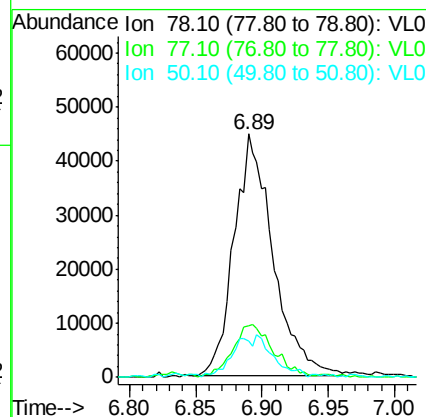
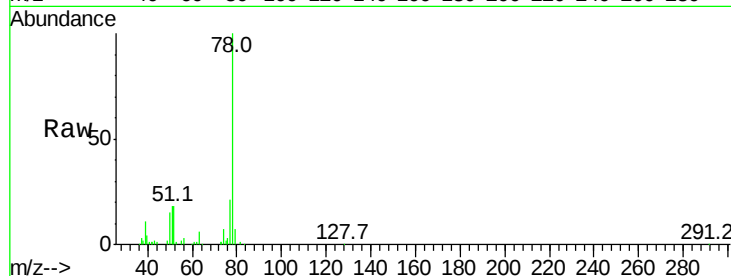
Ion 72.10 (71.80 to 72.80): VL0





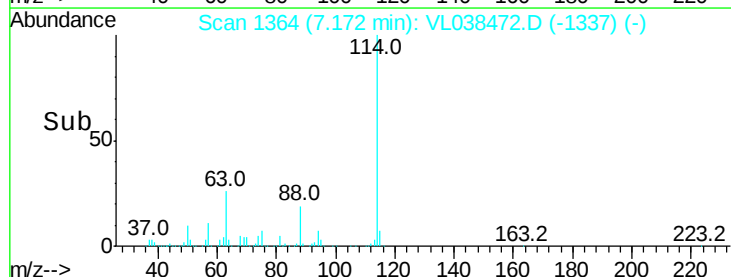
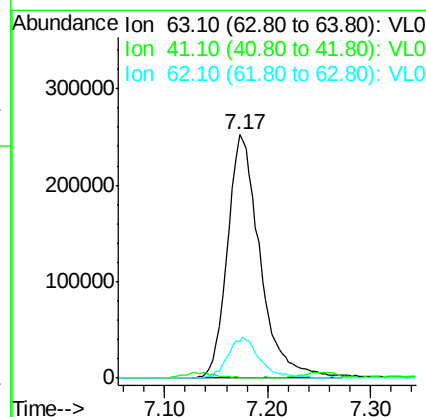
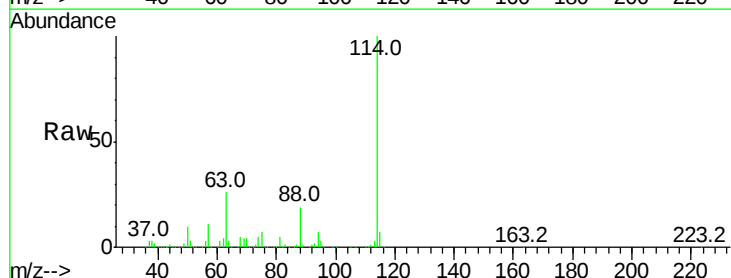
#36
Benzene
Concen: 0.47 ppbv
RT: 6.89
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 4:54

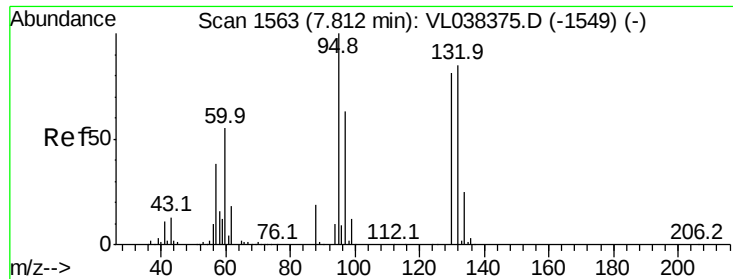
Tgt Ion: 78 Resp: 91442
Ion Ratio Lower Upper
78 100
77 19.9 19.0 28.6
50 13.8 16.6 24.8#



#39
1,2-Dichloropropane
Concen: 7.17 ppbv
RT: 7.17 min Scan# 1364
Delta R.T. -0.41 min
Lab File: VL038472.D
Acq: 2 Mar 2022 4:54

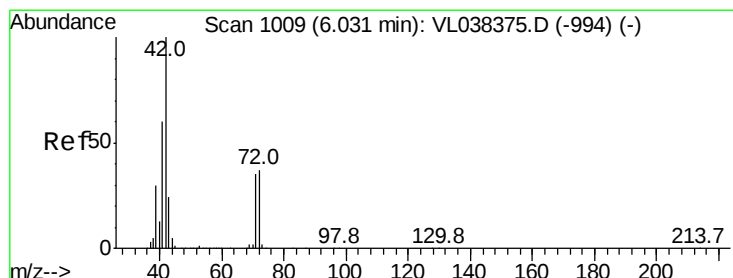
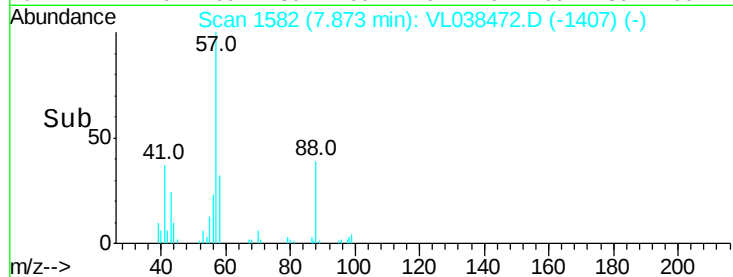
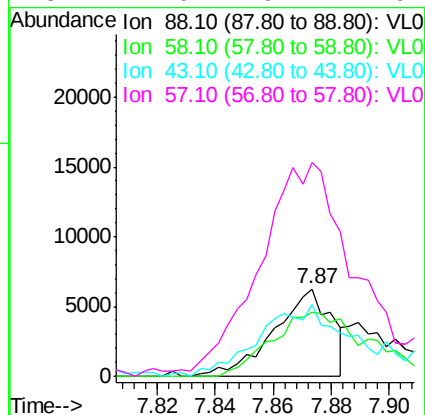
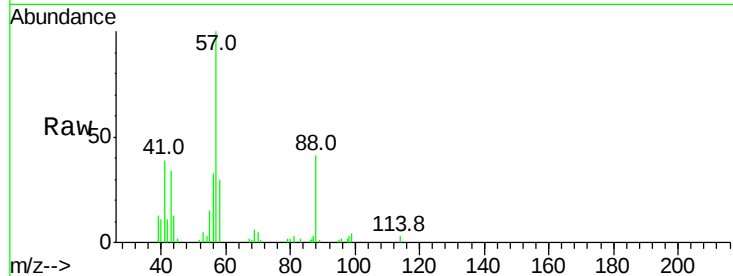
Tgt Ion: 63 Resp: 554672
Ion Ratio Lower Upper
63 100
41 0.0 56.1 84.1#
62 14.9 55.5 83.3#





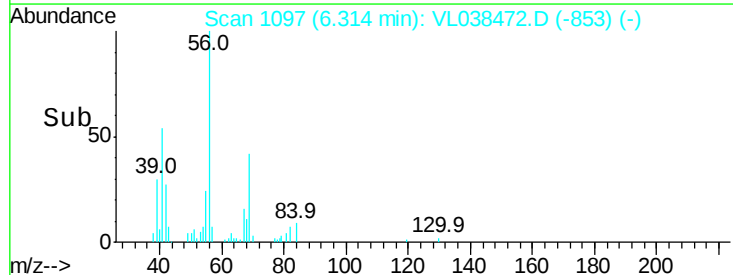
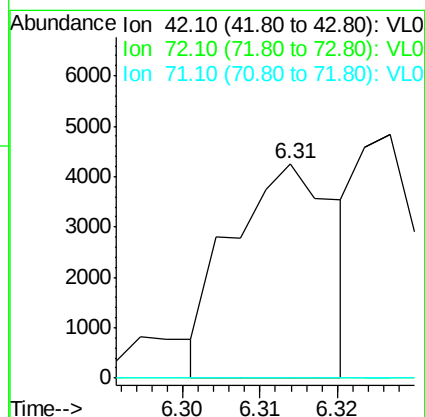
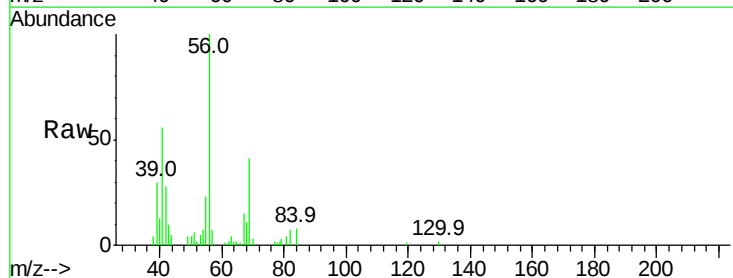
#40
 1,4-Dioxane
 Concen: 0.47 ppbv
 RT: 7.87
 Delta R.T.:
 Lab File: MSVOA_1
 ClientSampleId:
 FSG4DL
 Acq: 2 Mar 2022 4:54

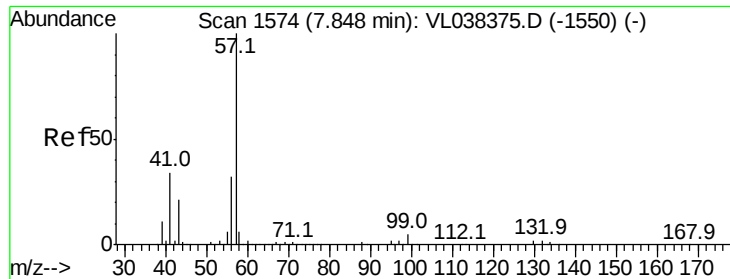
Tgt Ion: 88 Resp: 8595
 Ion Ratio Lower Upper
 88 100
 58 149.3 133.2 199.8
 43 140.5 330.6 496.0#
 57 422.9 1462.7 2194.1#



#41
 Tetrahydrofuran
 Concen: 0.09 ppbv
 RT: 6.31 min Scan# 1097
 Delta R.T.: 0.28 min
 Lab File: VL038472.D
 Acq: 2 Mar 2022 4:54

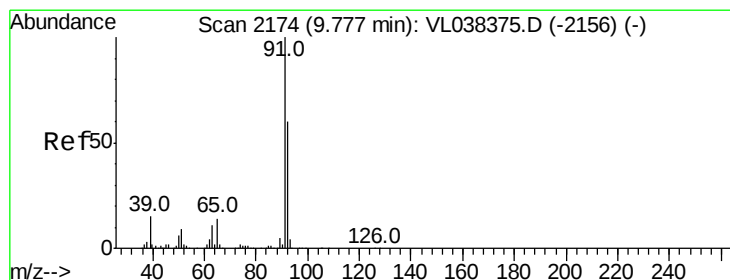
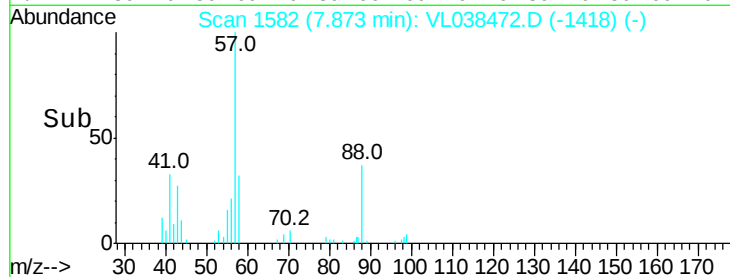
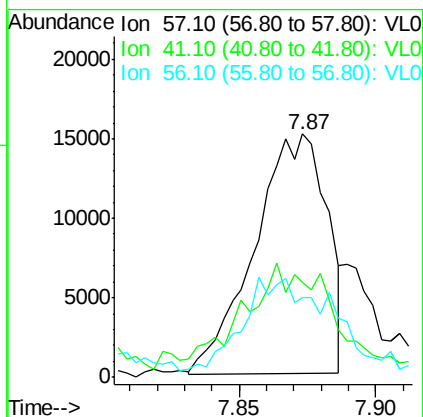
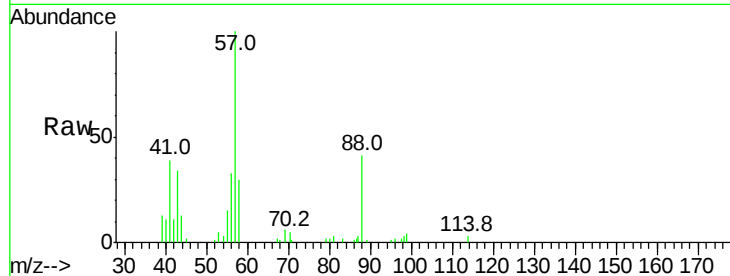
Tgt Ion: 42 Resp: 3991
 Ion Ratio Lower Upper
 42 100
 72 2.0 29.9 44.9#
 71 0.0 28.6 42.8#





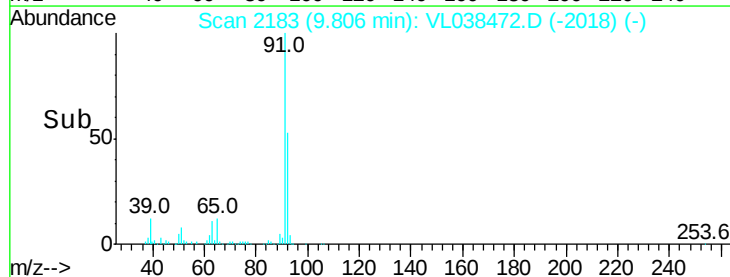
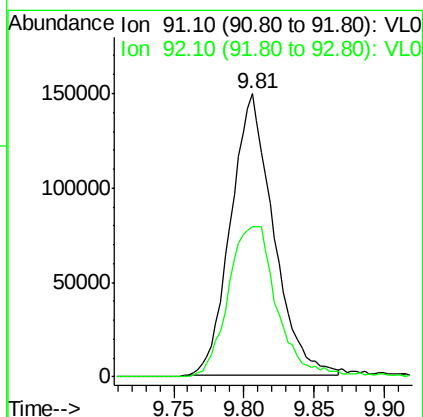
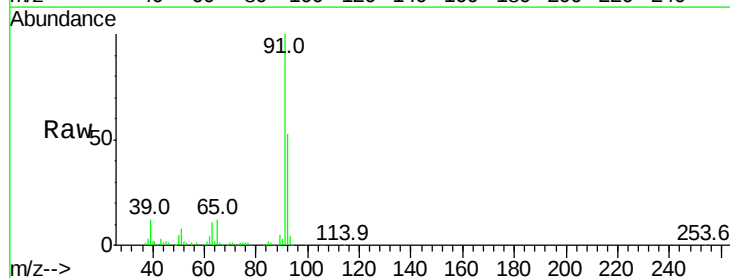
#44
 2,2,4-Trimethylpentane
 Concen: 0.08 ppbv
 RT: 7.87
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 FSG4DL
 Acq: 2 Mar 2022 4:54

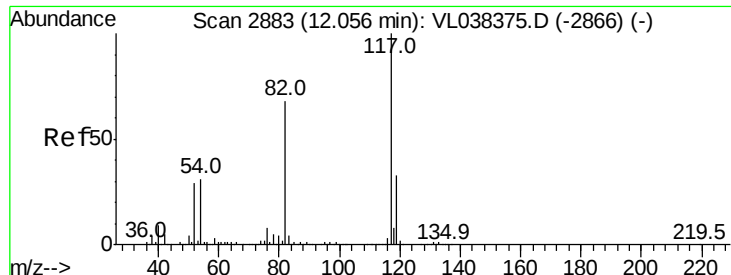
Tgt Ion: 57 Resp: 27867
 Ion Ratio Lower Upper
 57 100
 41 66.6 26.6 39.8#
 56 55.8 25.0 37.6#



#53
 Toluene
 Concen: 1.50 ppbv
 RT: 9.81 min Scan# 2183
 Delta R.T. 0.03 min
 Lab File: VL038472.D
 Acq: 2 Mar 2022 4:54

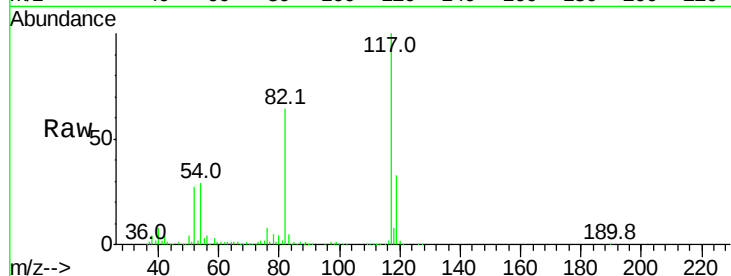
Tgt Ion: 91 Resp: 317025
 Ion Ratio Lower Upper
 91 100
 92 61.4 48.2 72.4



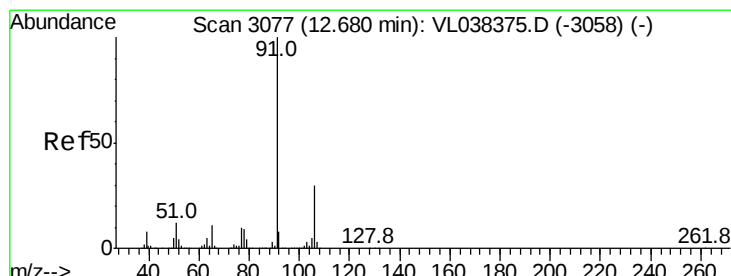
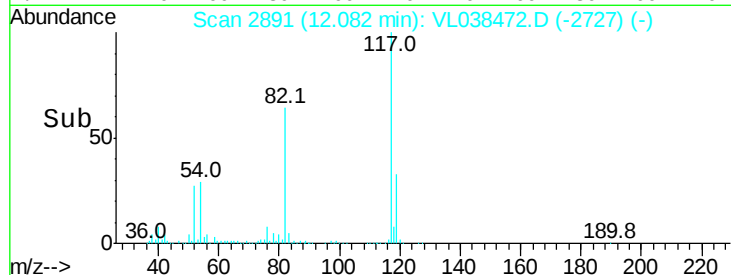
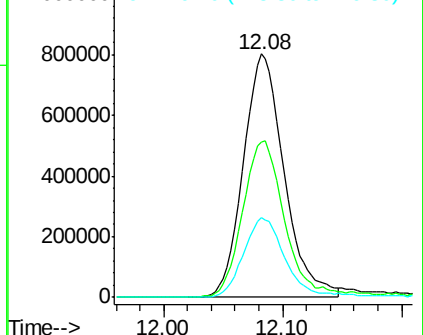


#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 2 Mar 2022 4:54

Tgt Ion: 117 Resp: 1905754
Ion Ratio Lower Upper
117 100
82 69.4 54.9 82.3
119 34.6 46.1 69.1#

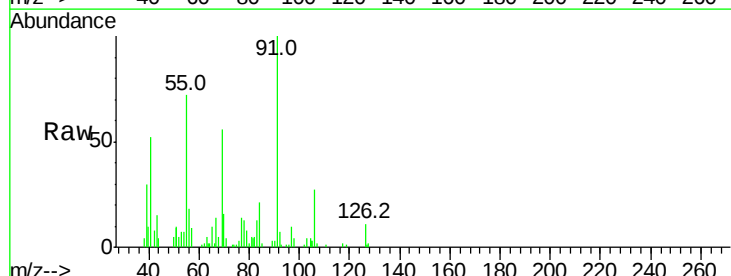


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

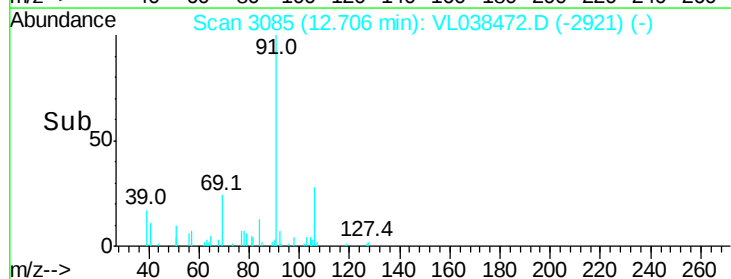
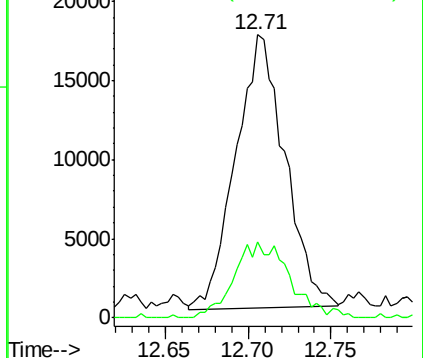


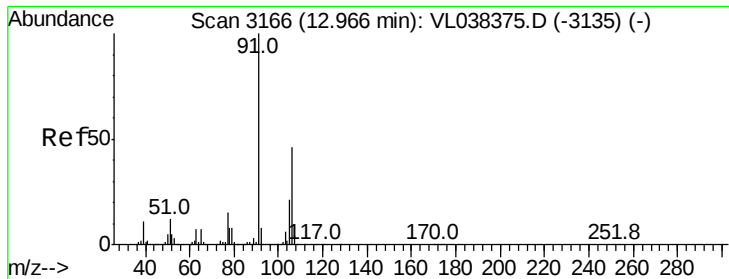
#58
Ethyl Benzene
Concen: 0.14 ppbv
RT: 12.71 min Scan# 3085
Delta R.T.: 0.03 min
Lab File: VL038472.D
Acq: 2 Mar 2022 4:54

Tgt Ion: 91 Resp: 35722
Ion Ratio Lower Upper
91 100
106 28.0 24.0 36.0



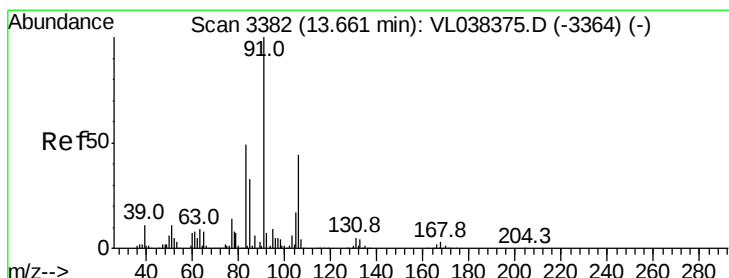
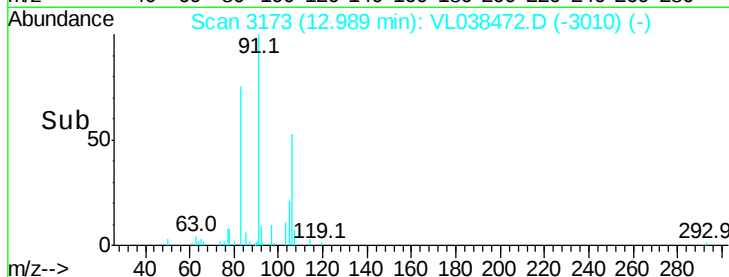
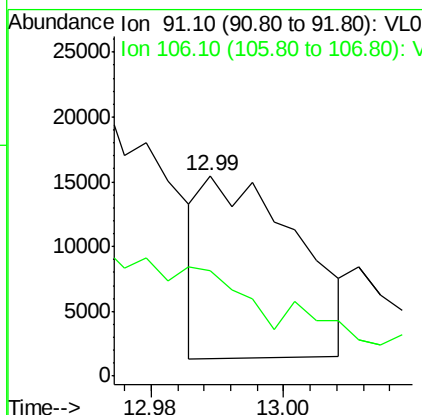
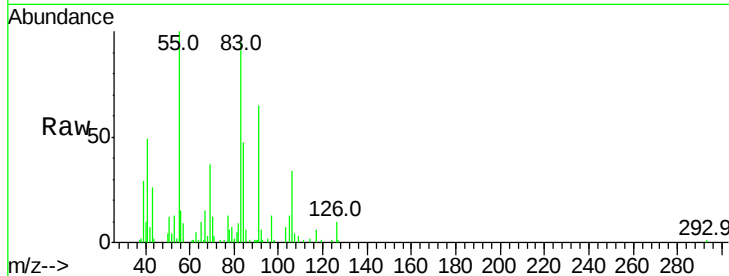
Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V





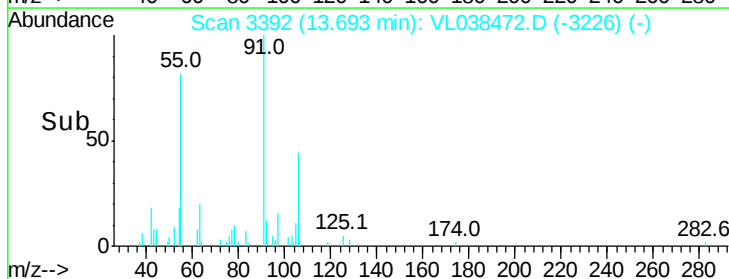
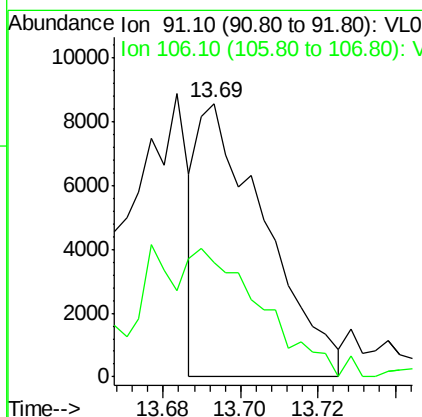
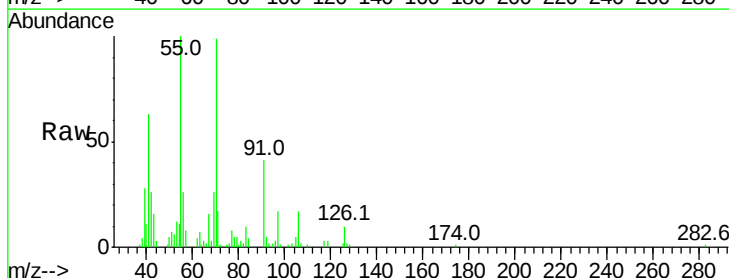
#59
m/p-Xylene
Concen: 0.06 ppbv
RT: 12.99 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 4:54

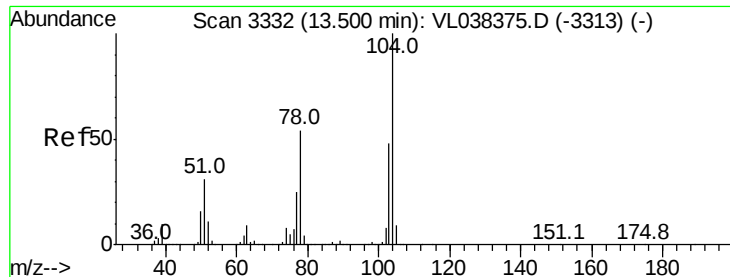
Tgt Ion: 91 Resp: 14113
Ion Ratio Lower Upper
91 100
106 0.0 34.4 51.6#



#60
o-Xylene
Concen: 0.05 ppbv
RT: 13.69 min Scan# 3392
Delta R.T. 0.03 min
Lab File: VL038472.D
Acq: 2 Mar 2022 4:54

Tgt Ion: 91 Resp: 10411
Ion Ratio Lower Upper
91 100
106 0.0 21.9 65.5#





#61

Styrene

Concen: 0.04 ppbv

RT: 13.53

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 2 Mar 2022 4:54

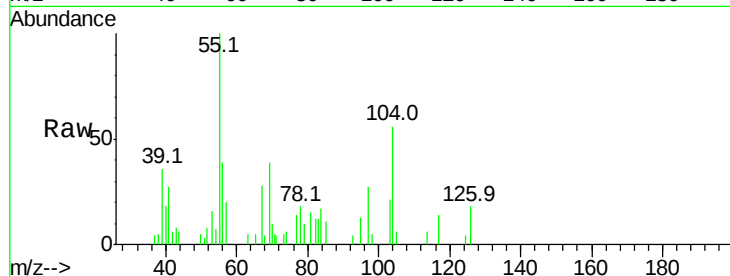
Tgt Ion:104 Resp: 3572

Ion Ratio Lower Upper

104 100

78 86.0 44.2 66.4#

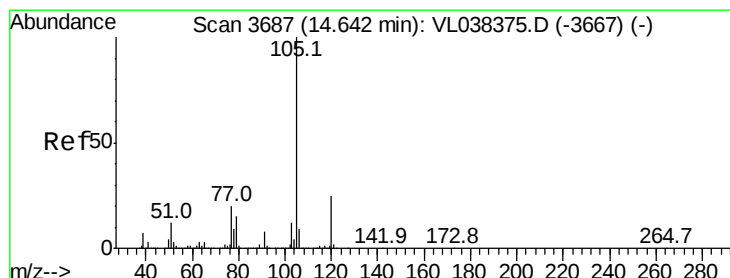
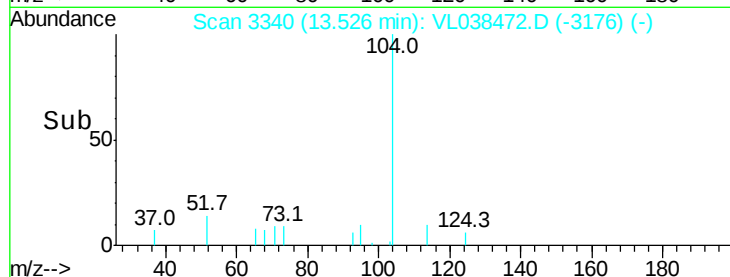
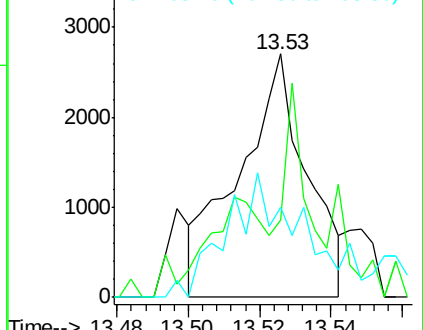
103 64.7 38.4 57.6#



Abundance Ion 104.10 (103.80 to 104.80): V

Ion 78.10 (77.80 to 78.80): VL0

Ion 103.10 (102.80 to 103.80): V



#62

Isopropylbenzene

Concen: 1.51 ppbv

RT: 14.66 min Scan# 3694

Delta R.T. 0.02 min

Lab File: VL038472.D

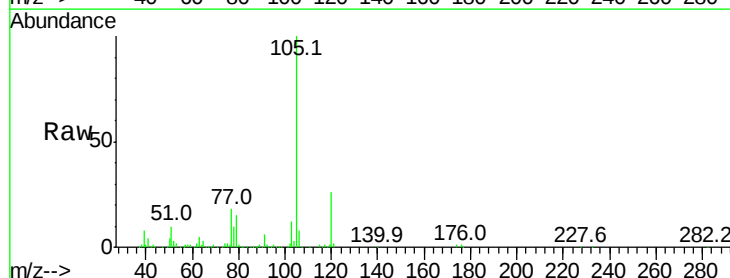
Acq: 2 Mar 2022 4:54

Tgt Ion:105 Resp: 428644

Ion Ratio Lower Upper

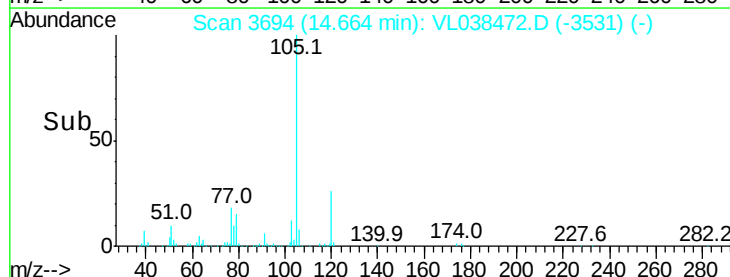
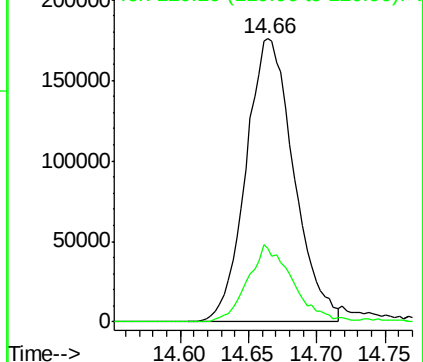
105 100

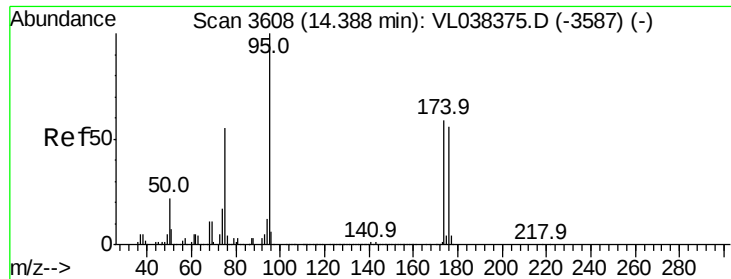
120 26.3 20.6 30.8



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.20 ppbv

RT: 14.41 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 2 Mar 2022 4:34

Tgt Ion: 95 Resp: 1451382

Ion Ratio Lower Upper

95 100

174 67.1 49.0 73.4

175 4.9 3.6 5.4

