

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL030122\
 Data File : VL038465.D
 Acq On : 2 Mar 2022 00:18
 Operator : SY/AP
 Sample : N1723-01DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 FSG2DL

Quant Time: Mar 02 03:08:56 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

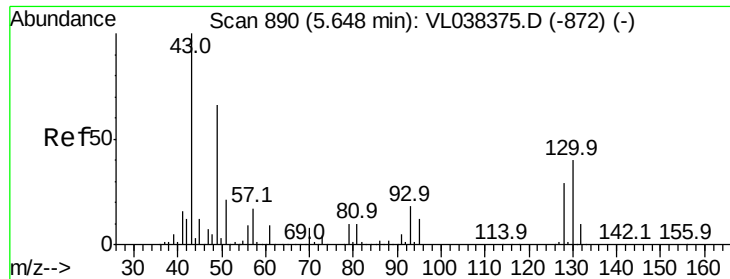
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	904702	10.00	ppbv	0.03
33) 1,4-Difluorobenzene	7.18	114	2326566	10.00	ppbv	0.03
55) Chlorobenzene-d5	12.09	117	1998439	10.00	ppbv	0.03

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1602190	9.69	ppbv	0.03
Spiked Amount	10.000	Range	65 - 135	Recovery	=	96.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.06	85	5817	0.04	ppbv #	72
3) Chlorodifluoromethane	3.00	51	7262	0.05	ppbv #	77
4) Chloromethane	3.15	50	3298	0.06	ppbv	89
9) Propene	3.21	41	193003	3.66	ppbv	91
10) Heptane	8.13	43	139376	1.09	ppbv	99
13) Ethanol	3.63	45	9262	1.76	ppbv #	1
15) Acetone	3.88	43	924108	12.01	ppbv #	81
16) 1,3-Butadiene	3.31	39	90805	1.77	ppbv #	48
17) tert-Butyl alcohol	4.32	59	18266	0.24	ppbv #	72
20) Methylene Chloride	4.35	84	8229	0.22	ppbv #	89
21) Allyl Chloride	4.38	41	42126	0.65	ppbv #	22
23) Vinyl Acetate	5.06	43	73828	0.72	ppbv #	1
25) Ethyl Acetate	5.70	43	142835	0.69	ppbv #	79
26) Hexane	5.69	57	197083	2.11	ppbv #	42
27) Carbon Disulfide	4.56	76	27409	0.26	ppbv #	69
30) Cyclohexane	7.14	84	70845	0.93	ppbv	92
34) 2-Butanone	5.27	43	64332	0.88	ppbv #	87
36) Benzene	6.90	78	356249	1.74	ppbv	94
39) 1,2-Dichloropropane	7.18	63	590132	7.23	ppbv #	24
44) 2,2,4-Trimethylpentane	7.87	57	579957	1.65	ppbv	91
53) Toluene	9.81	91	832832	3.75	ppbv	96
58) Ethyl Benzene	12.71	91	82024	0.30	ppbv	93
59) m/p-Xylene	13.00	91	23014	0.10	ppbv #	33
60) o-Xylene	13.69	91	44536	0.20	ppbv	93
61) Styrene	13.53	104	6316	0.06	ppbv #	10
62) Isopropylbenzene	14.67	105	1155877	3.88	ppbv	100

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



#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.67 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 2 Mar 2022 00:18 FSG2DL

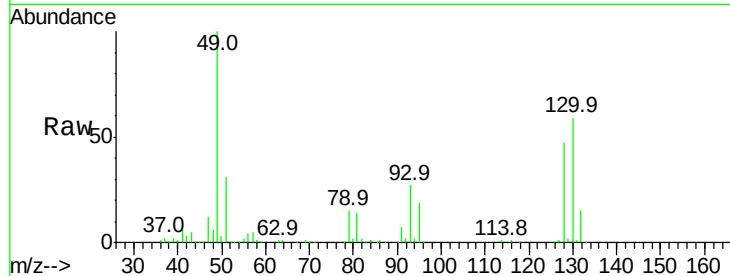
Tgt Ion: 49 Resp: 904702

Ion Ratio Lower Upper

49 100

128 48.6 24.3 72.9

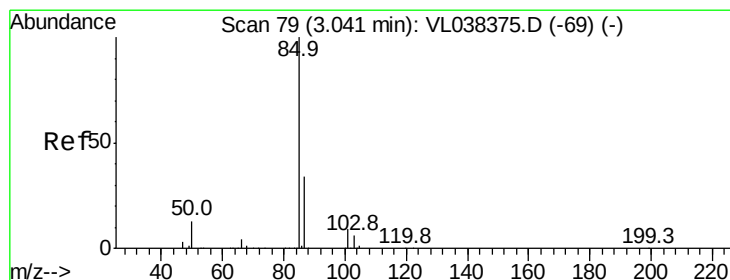
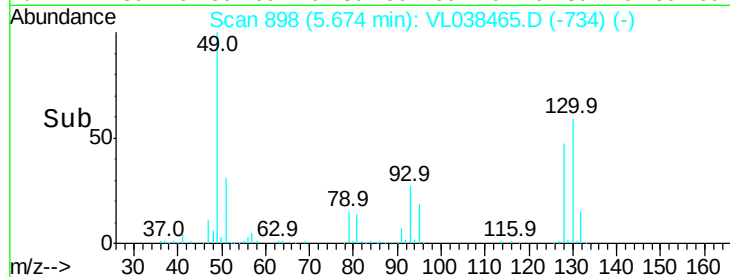
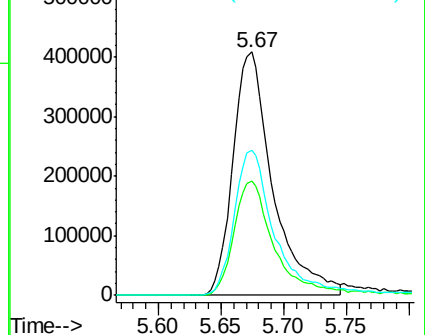
130 62.0 30.1 90.5



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: 0.04 ppbv

RT: 3.06 min Scan# 85

Delta R.T. 0.02 min

Lab File: VL038465.D

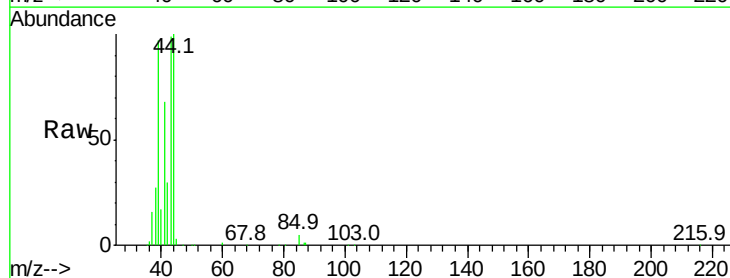
Acq: 2 Mar 2022 00:18

Tgt Ion: 85 Resp: 5817

Ion Ratio Lower Upper

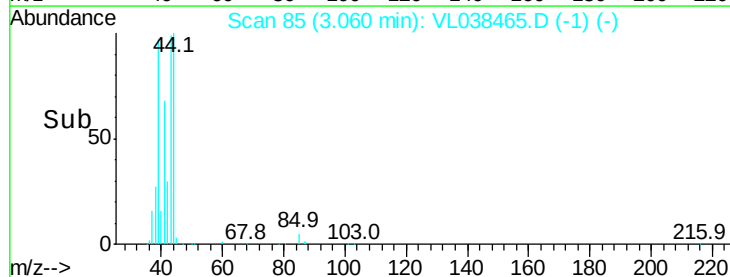
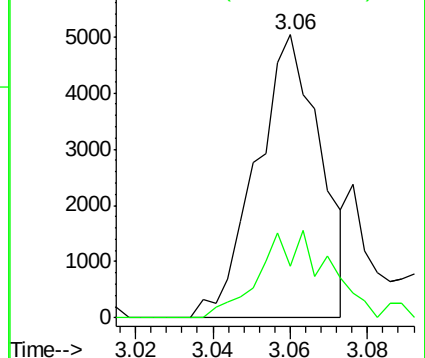
85 100

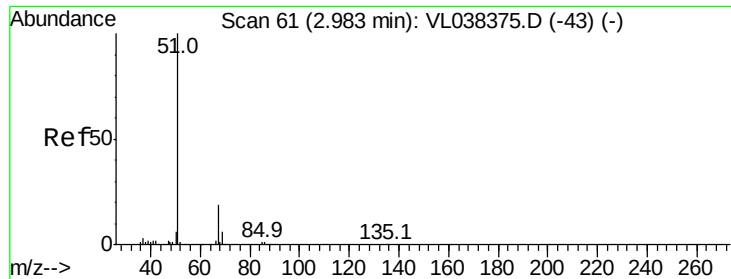
87 18.4 27.4 41.0#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.05 ppbv

RT: 3.00 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

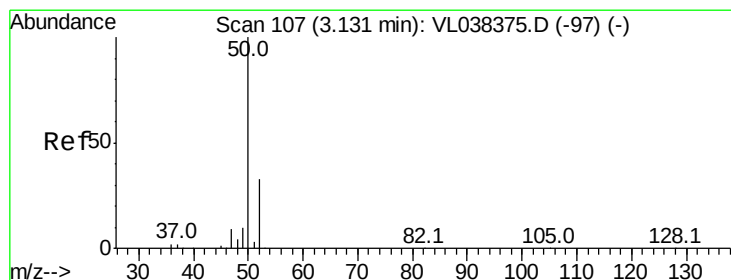
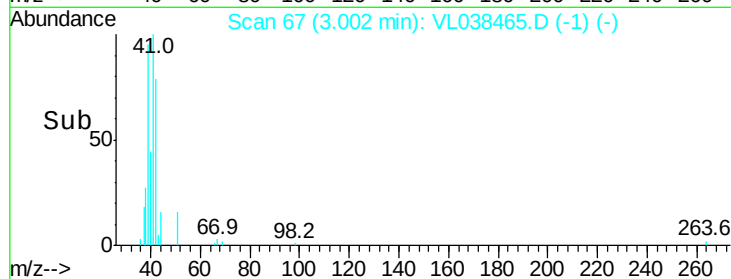
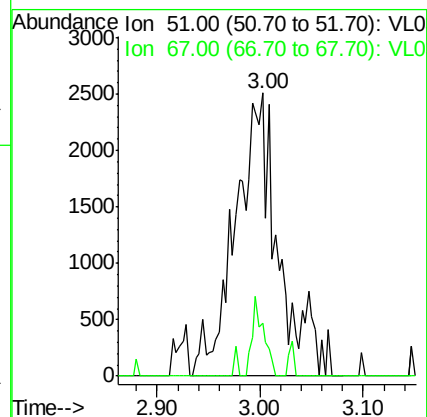
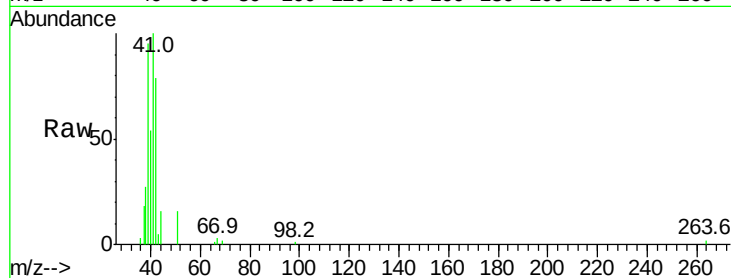
Acq: 2 Mar 2022 00:18 FSG2DL

Tgt Ion: 51 Resp: 7262

Ion Ratio Lower Upper

51 100

67 8.3 14.7 22.1#



#4

Chloromethane

Concen: 0.06 ppbv

RT: 3.15 min Scan# 112

Delta R.T. 0.02 min

Lab File: VL038465.D

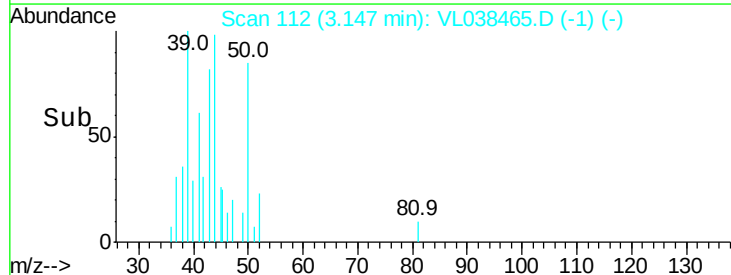
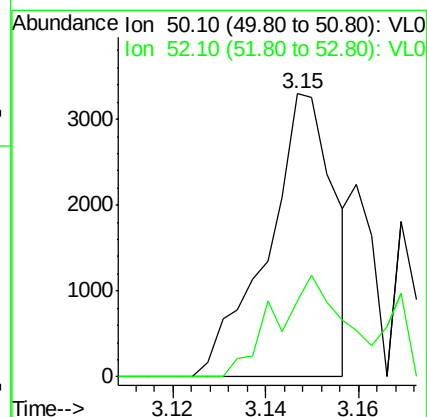
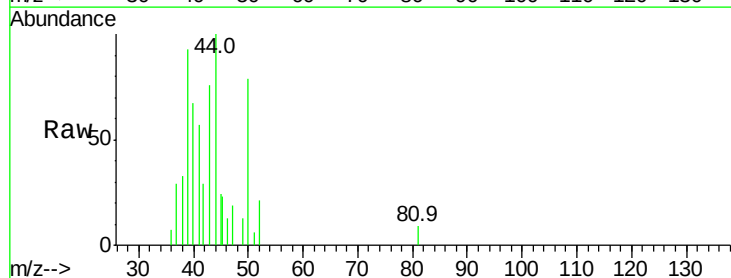
Acq: 2 Mar 2022 00:18

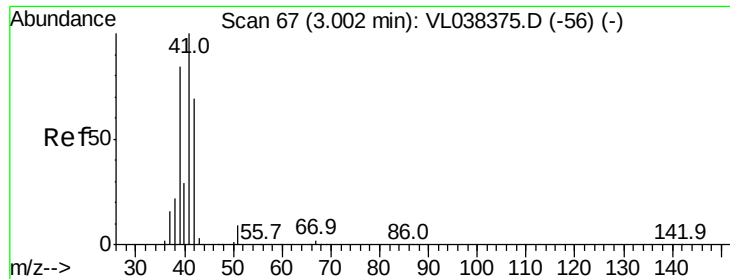
Tgt Ion: 50 Resp: 3298

Ion Ratio Lower Upper

50 100

52 26.9 26.5 39.7





#9

Propene

Concen: 3.66 ppbv

RT: 3.21 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

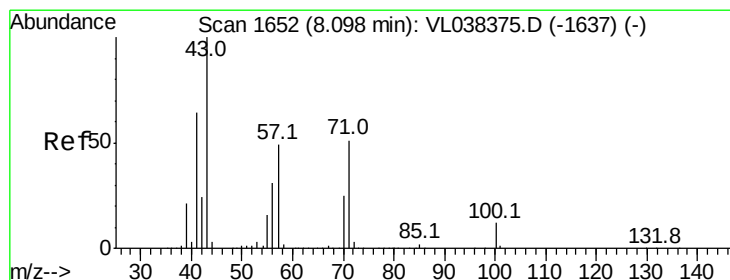
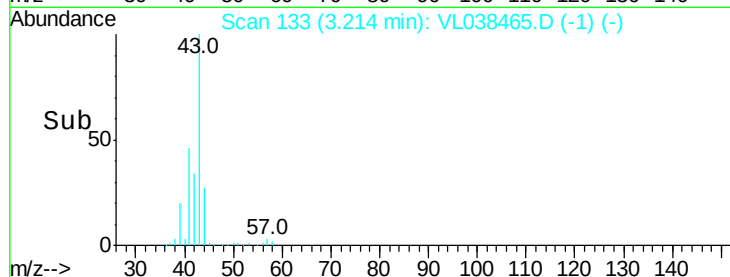
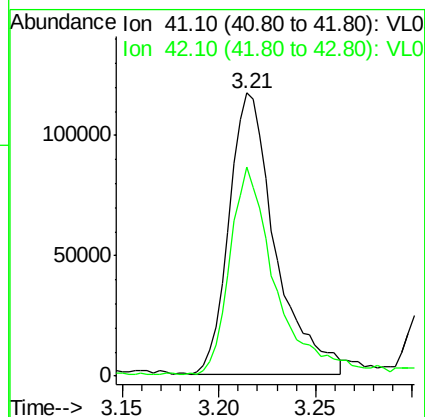
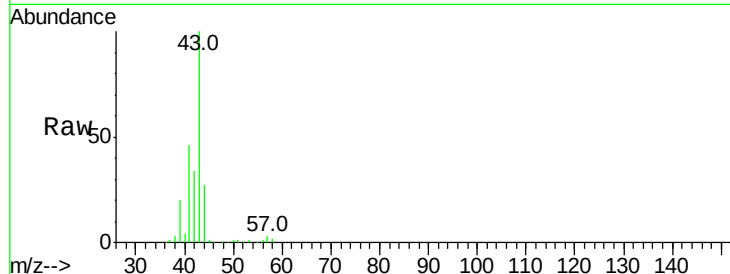
Acq: 2 Mar 2022 00:18

Tgt Ion: 41 Resp: 193003

Ion Ratio Lower Upper

41 100

42 75.4 54.6 82.0



#10

Heptane

Concen: 1.09 ppbv

RT: 8.13 min Scan# 1662

Delta R.T. 0.03 min

Lab File: VL038465.D

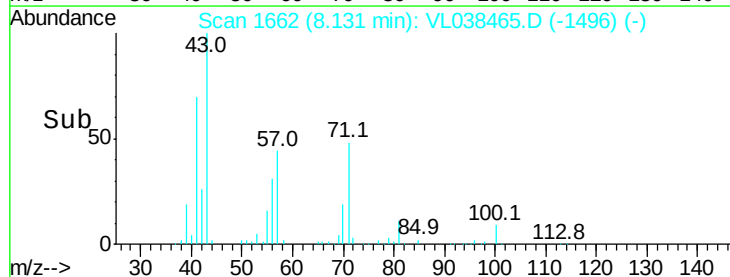
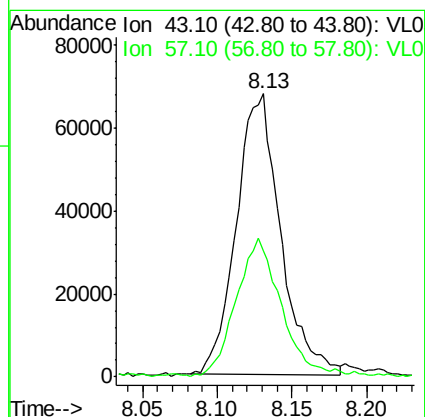
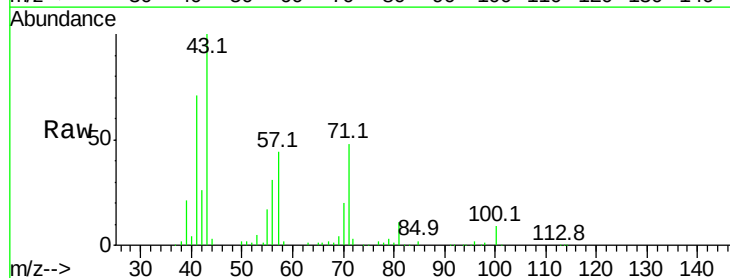
Acq: 2 Mar 2022 00:18

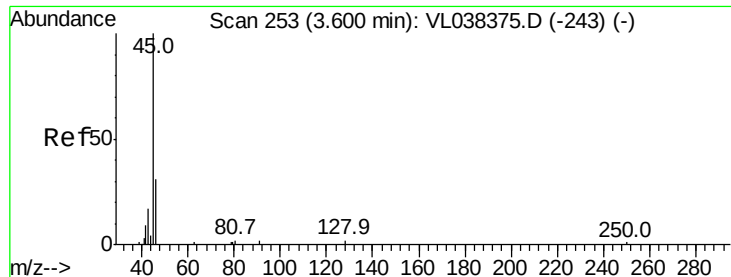
Tgt Ion: 43 Resp: 139376

Ion Ratio Lower Upper

43 100

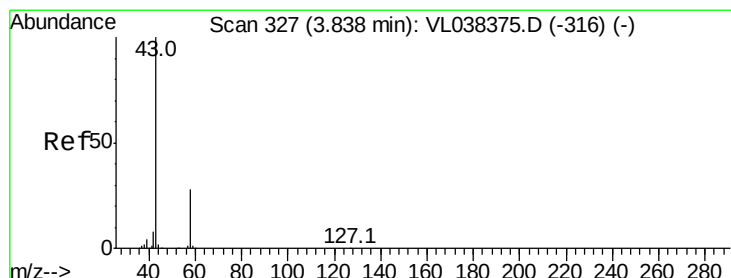
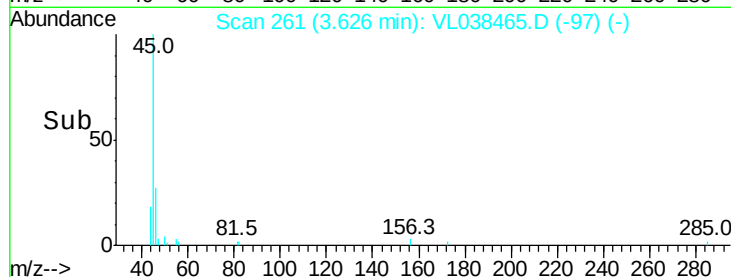
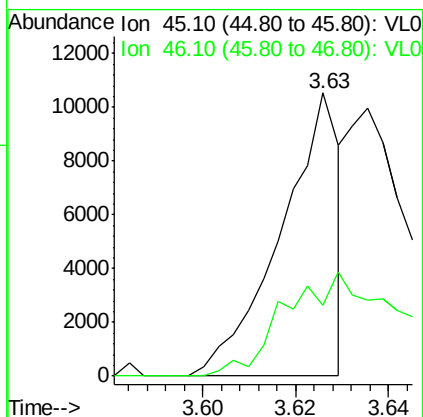
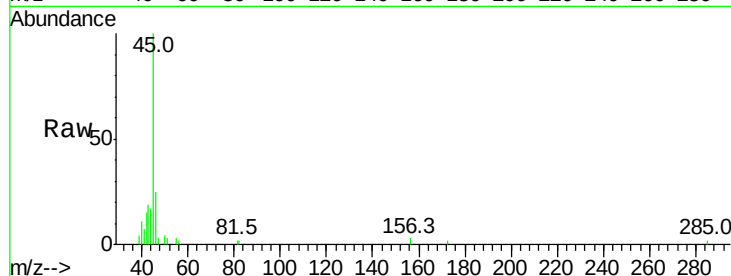
57 50.5 39.8 59.8





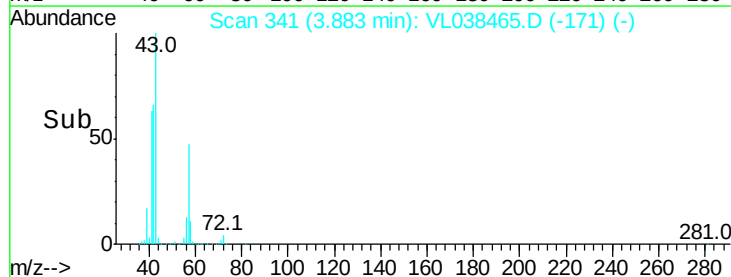
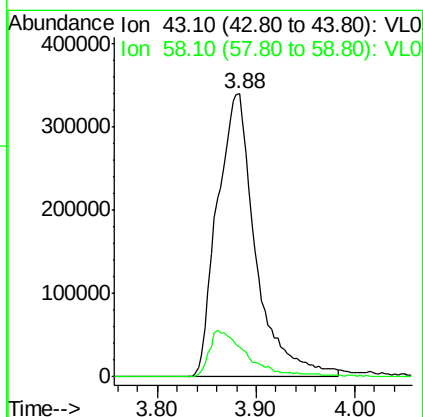
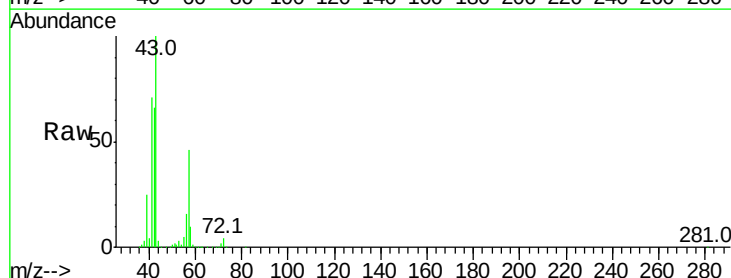
#13
Ethanol
Concen: 1.76 ppbv
RT: 3.63
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 00:18

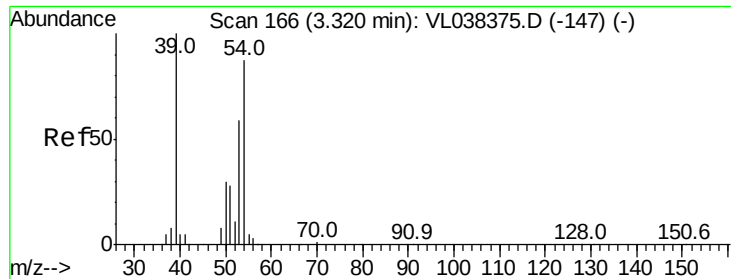
Tgt Ion: 45 Resp: 9262
Ion Ratio Lower Upper
45 100
46 120.7 18.2 72.8#



#15
Acetone
Concen: 12.01 ppbv
RT: 3.88 min Scan# 341
Delta R.T. 0.05 min
Lab File: VL038465.D
Acq: 2 Mar 2022 00:18

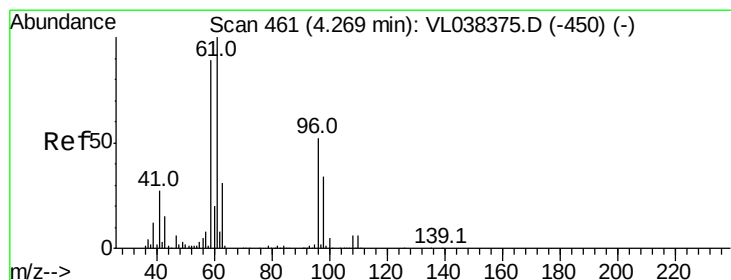
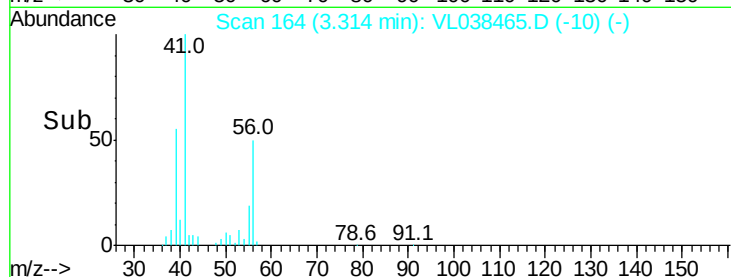
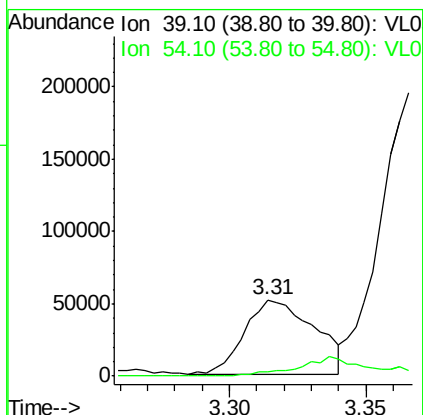
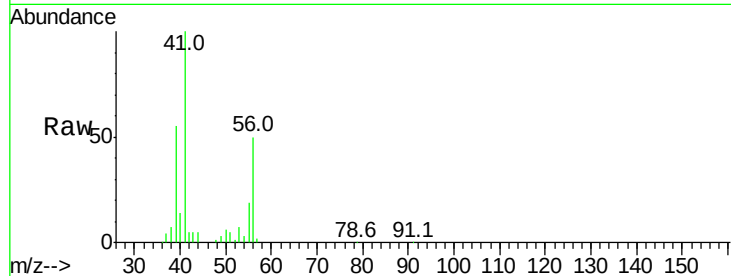
Tgt Ion: 43 Resp: 924108
Ion Ratio Lower Upper
43 100
58 17.1 21.7 32.5#





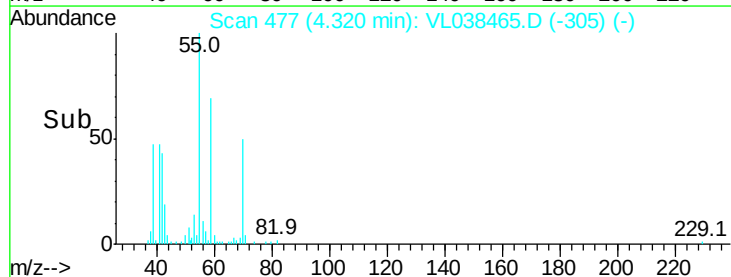
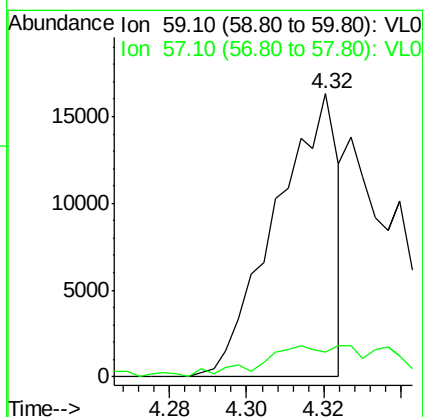
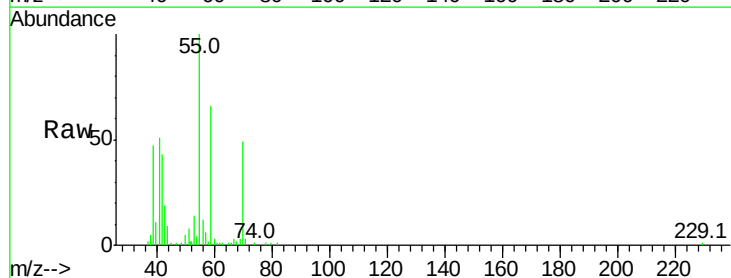
#16
 1,3-Butadiene
 Concen: 1.77 ppbv
 RT: 3.31
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 FSG2DL
 Acq: 2 Mar 2022 00:18

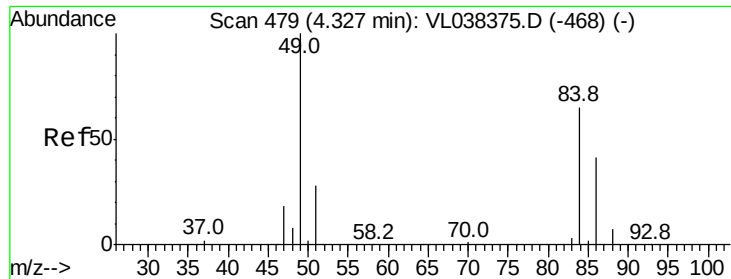
Tgt Ion: 39 Resp: 90805
 Ion Ratio Lower Upper
 39 100
 54 30.8 60.3 90.5#



#17
 tert-Butyl alcohol
 Concen: 0.24 ppbv
 RT: 4.32 min Scan# 477
 Delta R.T. 0.05 min
 Lab File: VL038465.D
 Acq: 2 Mar 2022 00:18

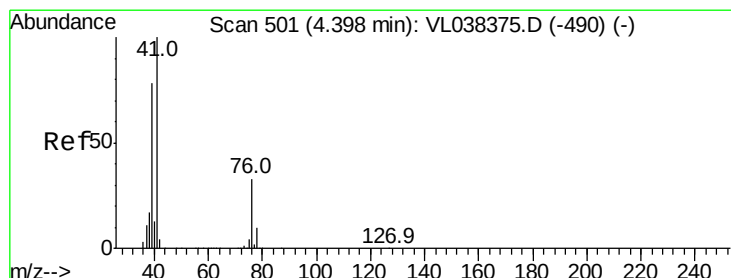
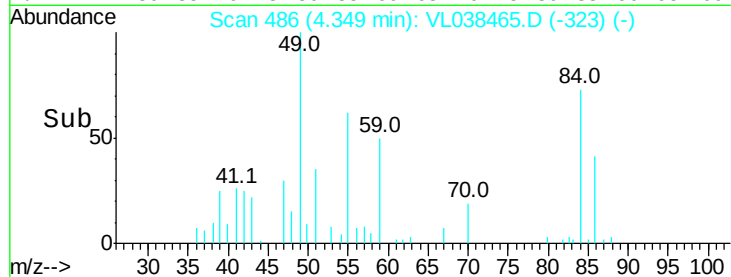
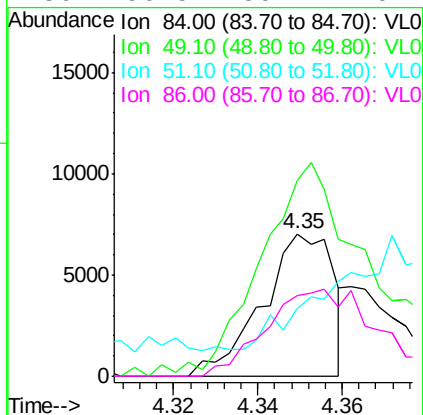
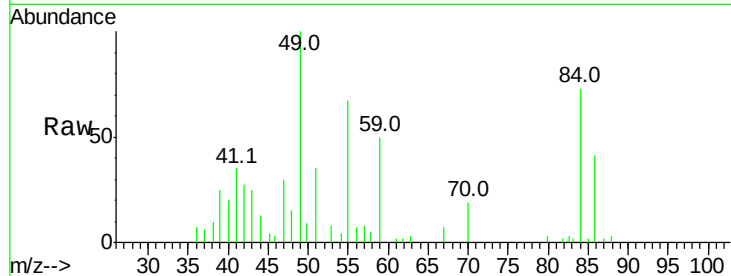
Tgt Ion: 59 Resp: 18266
 Ion Ratio Lower Upper
 59 100
 57 0.0 8.4 12.6#





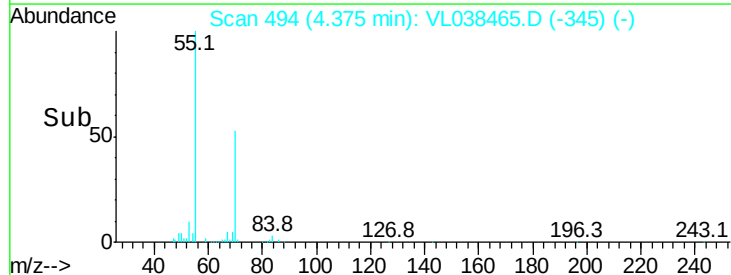
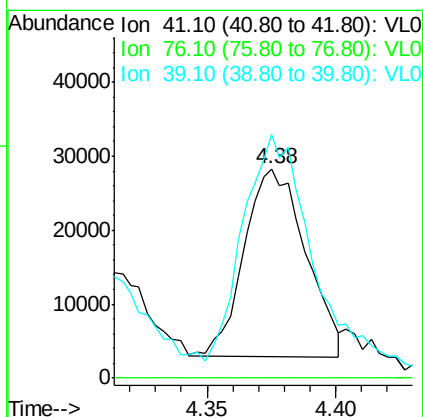
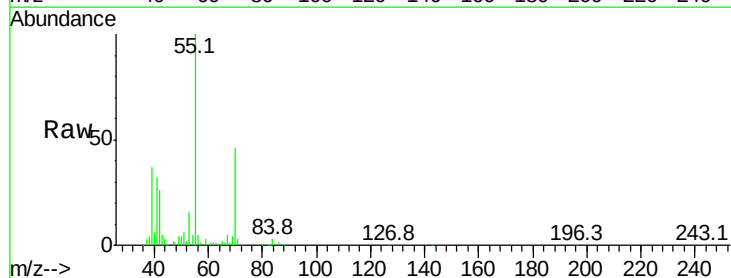
#20
Methylene Chloride
Concen: 0.22 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
FSG2DL
Acq: 2 Mar 2022 00:18

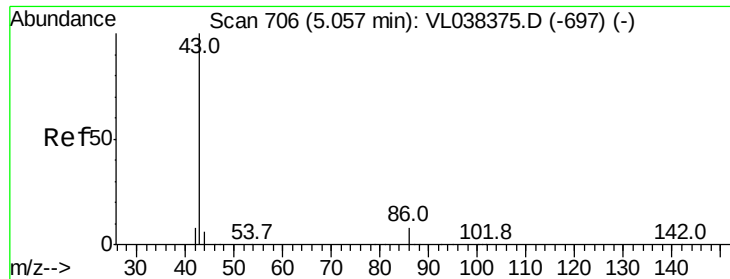
Tgt Ion: 84 Resp: 8229
Ion Ratio Lower Upper
84 100
49 140.5 122.4 183.6
51 28.6 33.3 49.9#
86 56.5 50.7 76.1



#21
Allyl Chloride
Concen: 0.65 ppbv
RT: 4.38 min Scan# 494
Delta R.T. -0.02 min
Lab File: VL038465.D
Acq: 2 Mar 2022 00:18

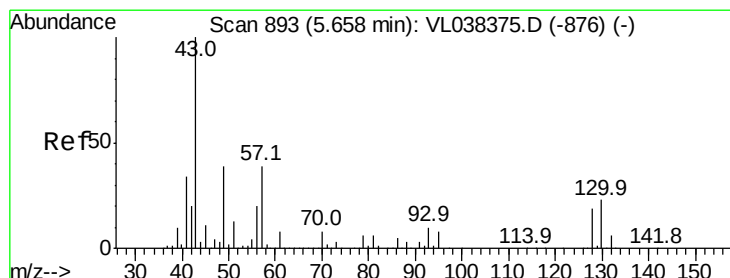
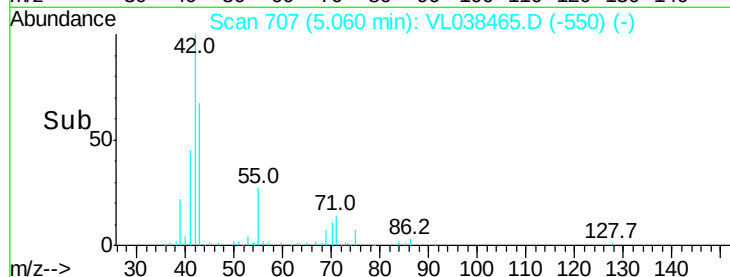
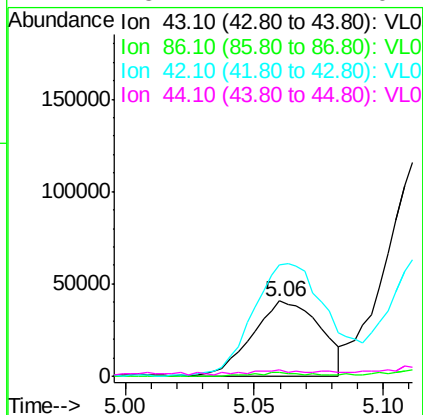
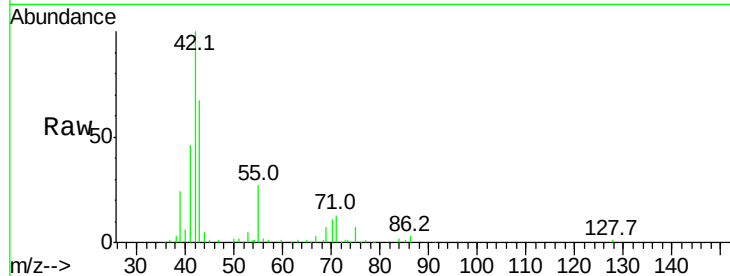
Tgt Ion: 41 Resp: 42126
Ion Ratio Lower Upper
41 100
76 0.0 25.4 38.0#
39 154.8 63.0 94.6#





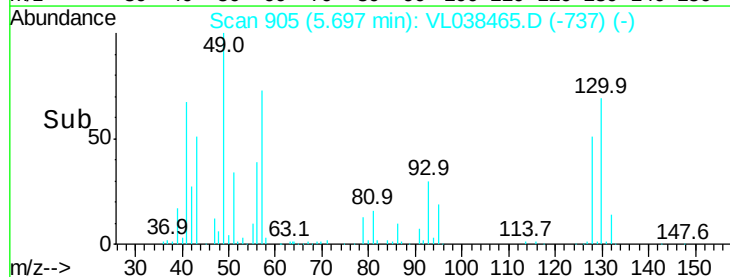
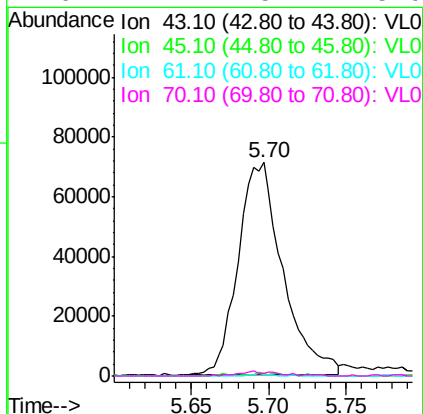
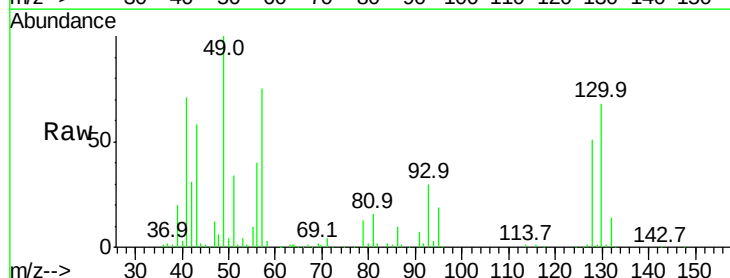
#23
 Vinyl Acetate
 Concen: 0.72 ppbv
 RT: 5.06
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 2 Mar 2022 00:18

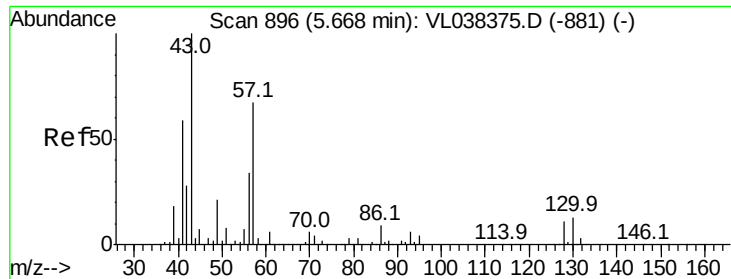
Tgt Ion:	43	Resp:	73828
Ion	Ratio	Lower	Upper
43	100		
86	4.6	5.8	8.6#
42	149.1	7.4	11.0#
44	5.7	4.2	6.2



#25
 Ethyl Acetate
 Concen: 0.69 ppbv
 RT: 5.70 min Scan# 905
 Delta R.T. 0.04 min
 Lab File: VL038465.D
 Acq: 2 Mar 2022 00:18

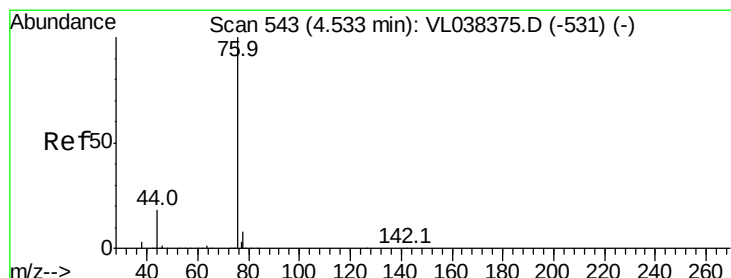
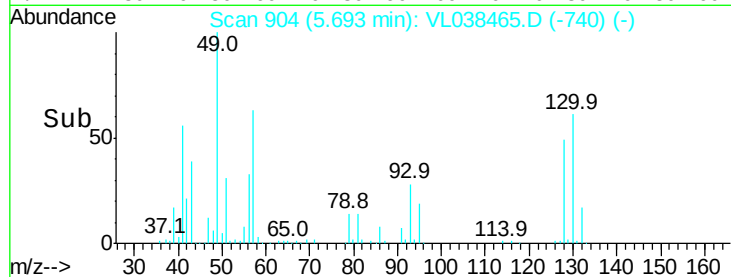
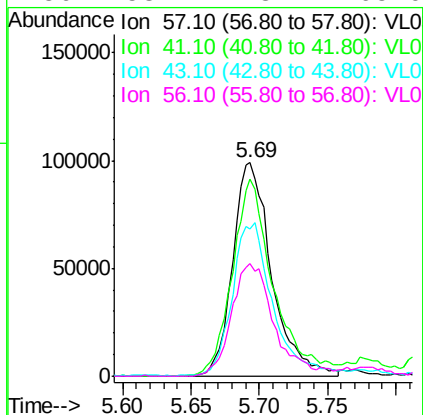
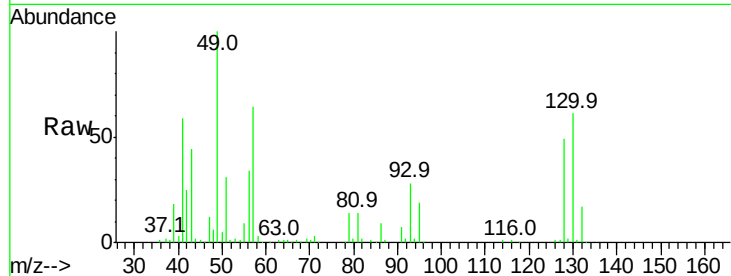
Tgt Ion:	43	Resp:	142835
Ion	Ratio	Lower	Upper
43	100		
45	1.3	7.8	11.6#
61	0.5	7.5	11.3#
70	2.2	5.4	8.0#





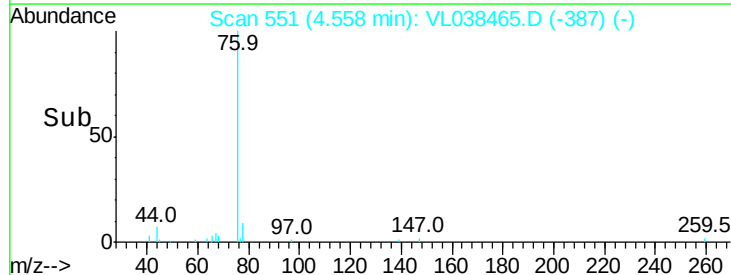
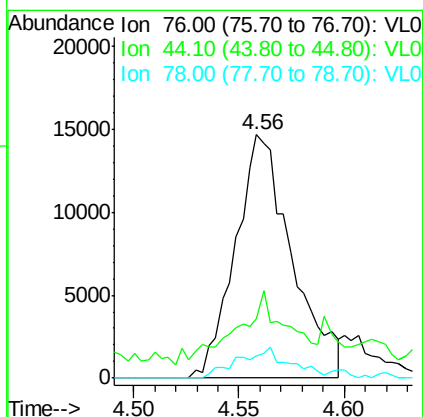
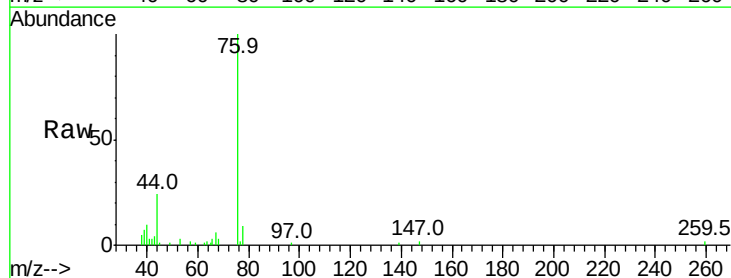
#26
Hexane
Concen: 2.11 ppbv
RT: 5.69
Delta R.T.: MSVOA_L
Lab File: ClientSampleId : FSG2DL
Acq: 2 Mar 2022 00:18

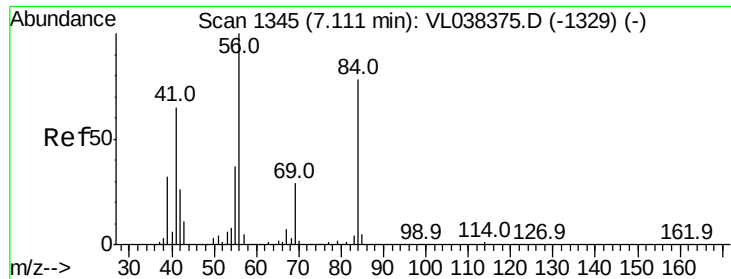
Tgt Ion	Ratio	Lower	Upper
57	100		
41	98.7	73.1	109.7
43	77.7	181.0	271.4#
56	58.2	43.4	65.0



#27
Carbon Disulfide
Concen: 0.26 ppbv
RT: 4.56 min Scan# 551
Delta R.T.: 0.03 min
Lab File: VL038465.D
Acq: 2 Mar 2022 00:18

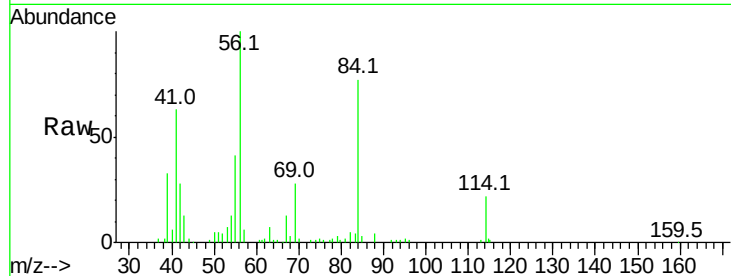
Tgt Ion	Ratio	Lower	Upper
76	100		
44	36.5	14.2	21.2#
78	13.1	7.8	11.6#



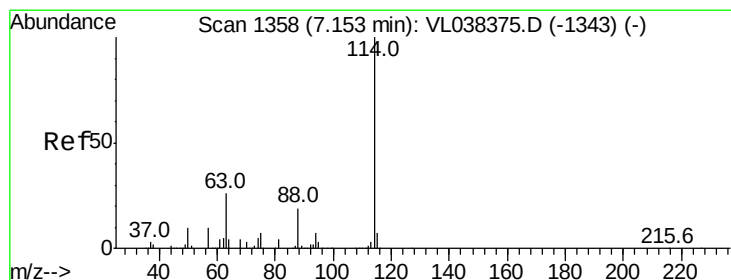
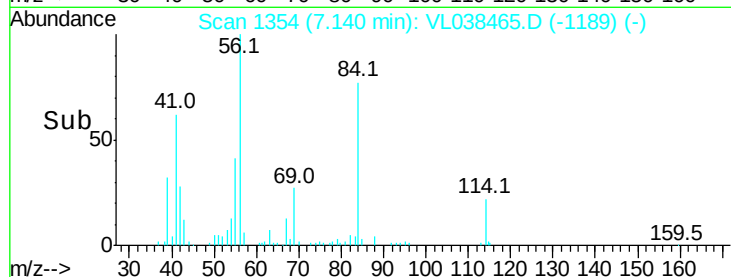
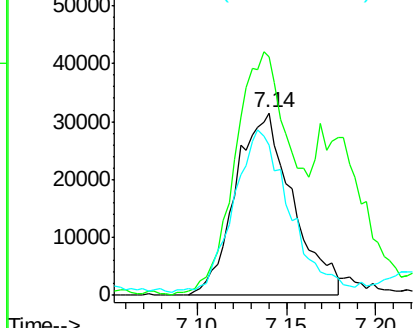


#30
Cyclohexane
Concen: 0.93 ppbv
RT: 7.14
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 2 Mar 2022 00:18

Tgt Ion: 84 Resp: 70845
Ion Ratio Lower Upper
84 100
56 131.3 116.2 174.4
41 90.7 74.3 111.5

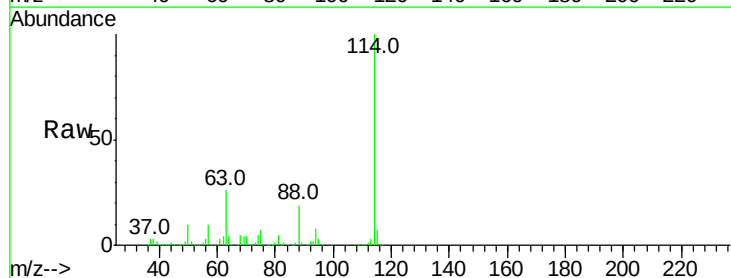


Abundance Ion 84.20 (83.90 to 84.90): VL0
Ion 56.10 (55.80 to 56.80): VL0
Ion 41.10 (40.80 to 41.80): VL0

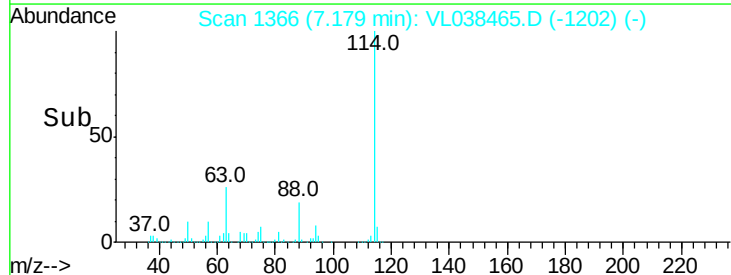
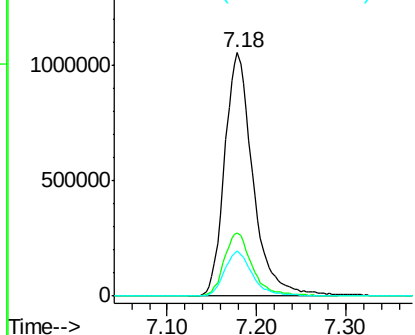


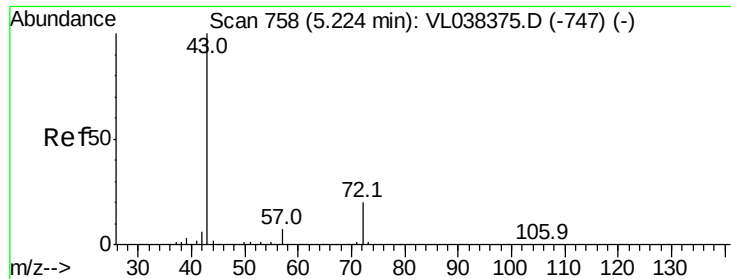
#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.18 min Scan# 1366
Delta R.T.: 0.03 min
Lab File: VL038465.D
Acq: 2 Mar 2022 00:18

Tgt Ion: 114 Resp: 2326566
Ion Ratio Lower Upper
114 100
63 26.1 22.2 33.2
88 18.3 15.2 22.8



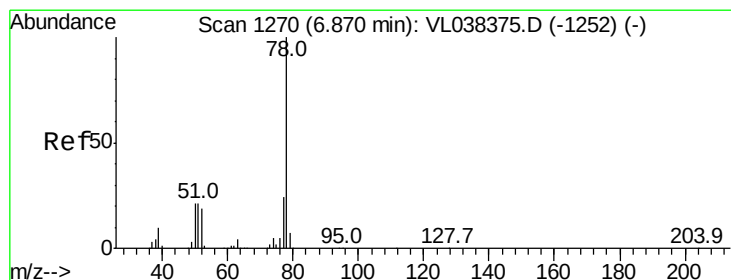
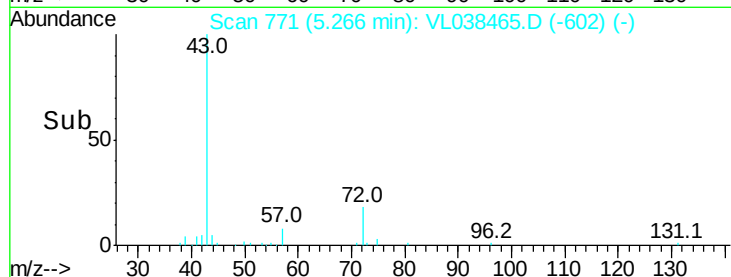
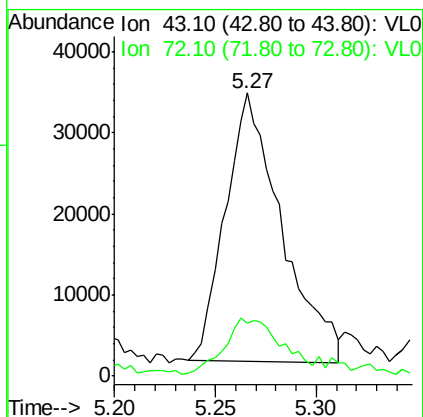
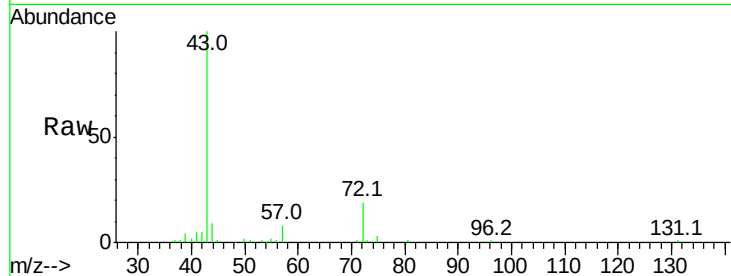
Abundance Ion 114.10 (113.80 to 114.80): V
Ion 63.10 (62.80 to 63.80): VL0
Ion 88.10 (87.80 to 88.80): VL0





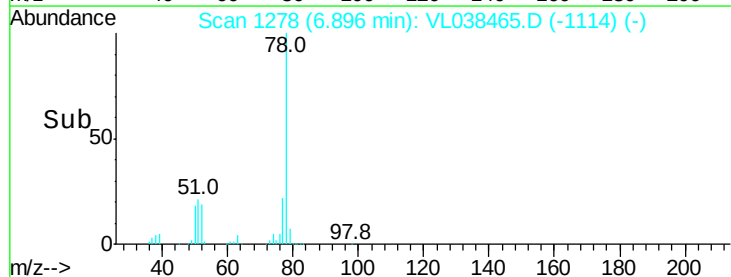
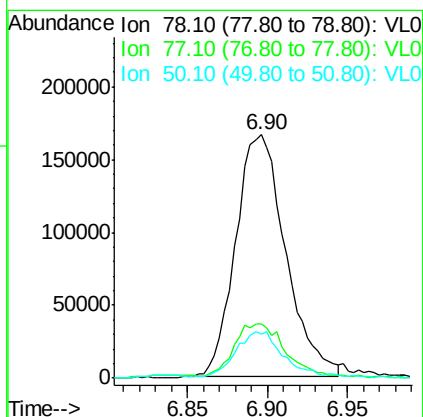
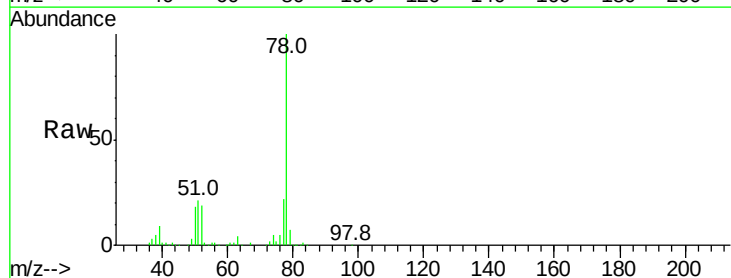
#34
2-Butanone
Concen: 0.88 ppbv
RT: 5.27
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 00:18

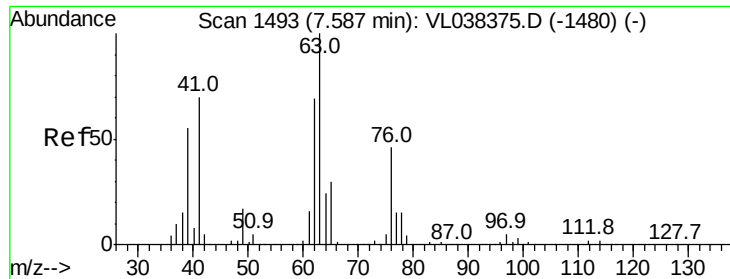
Tgt Ion: 43 Resp: 64332
Ion Ratio Lower Upper
43 100
72 28.0 17.4 26.2#



#36
Benzene
Concen: 1.74 ppbv
RT: 6.90 min Scan# 1278
Delta R.T. 0.03 min
Lab File: VL038465.D
Acq: 2 Mar 2022 00:18

Tgt Ion: 78 Resp: 356249
Ion Ratio Lower Upper
78 100
77 21.2 19.0 28.6
50 17.4 16.6 24.8





#39

1,2-Dichloropropane

Concen: 7.23 ppbv

RT: 7.18 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 2 Mar 2022 00:18 FSG2DL

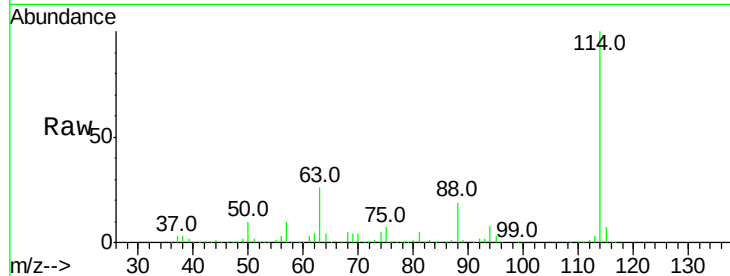
Tgt Ion: 63 Resp: 590132

Ion Ratio Lower Upper

63 100

41 0.0 56.1 84.1#

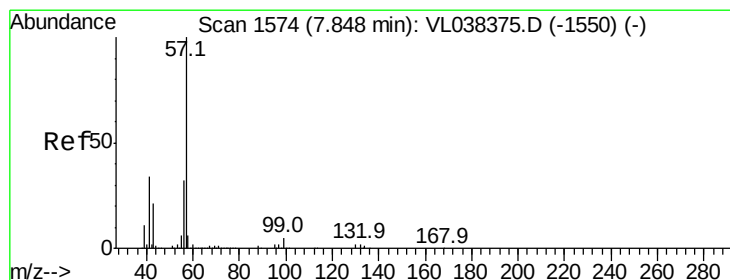
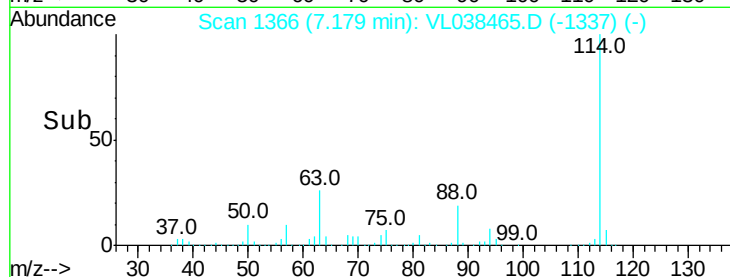
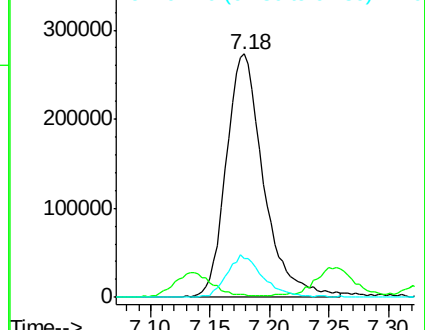
62 15.8 55.5 83.3#



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: 1.65 ppbv

RT: 7.87 min Scan# 1582

Delta R.T. 0.03 min

Lab File: VL038465.D

Acq: 2 Mar 2022 00:18

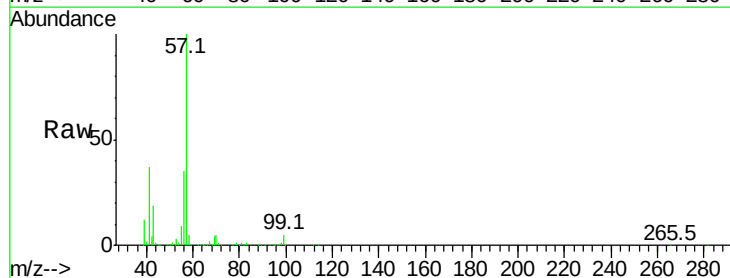
Tgt Ion: 57 Resp: 579957

Ion Ratio Lower Upper

57 100

41 37.2 26.6 39.8

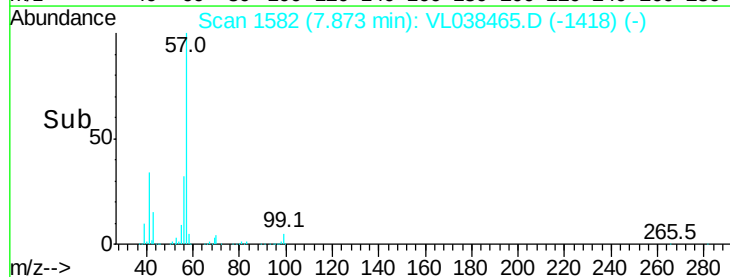
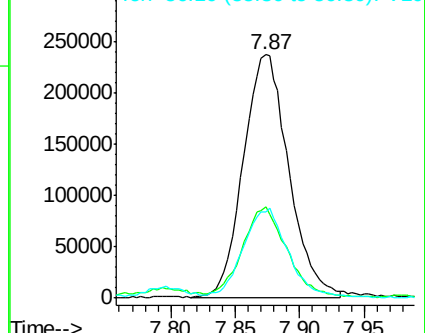
56 37.1 25.0 37.6

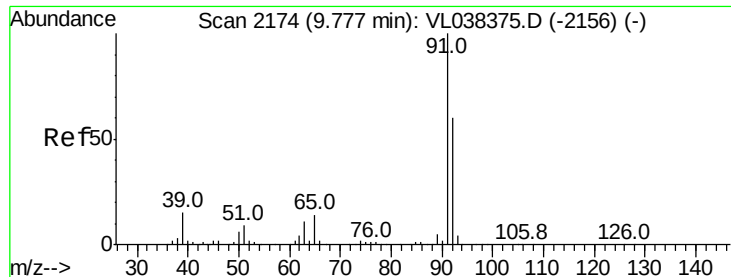


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 56.10 (55.80 to 56.80): VL0





#53

Toluene

Concen: 3.75 ppbv

RT: 9.81 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

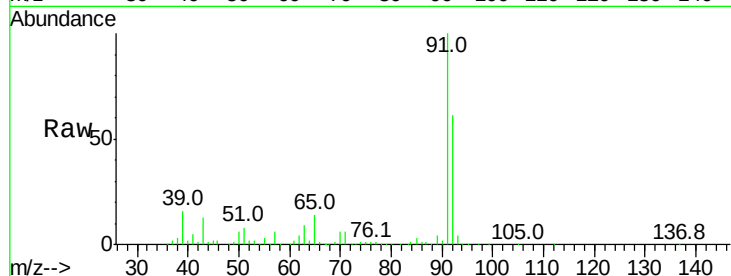
Acq: 2 Mar 2022 00:18 FSG2DL

Tgt Ion: 91 Resp: 832832

Ion Ratio Lower Upper

91 100

92 63.2 48.2 72.4



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.81

400000

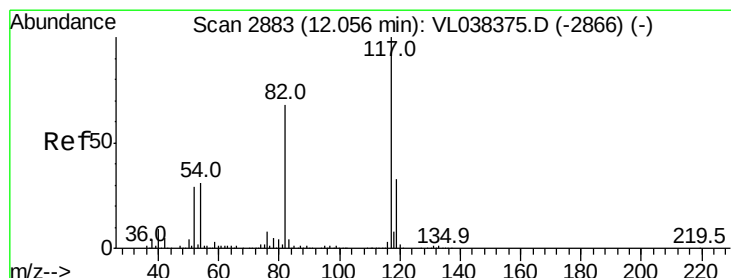
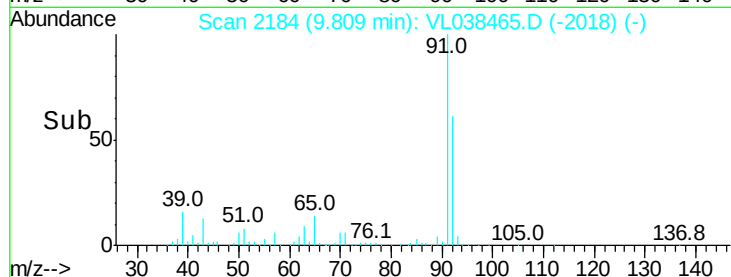
300000

200000

100000

0

Time-->



#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.09 min Scan# 2892

Delta R.T. 0.03 min

Lab File: VL038465.D

Acq: 2 Mar 2022 00:18

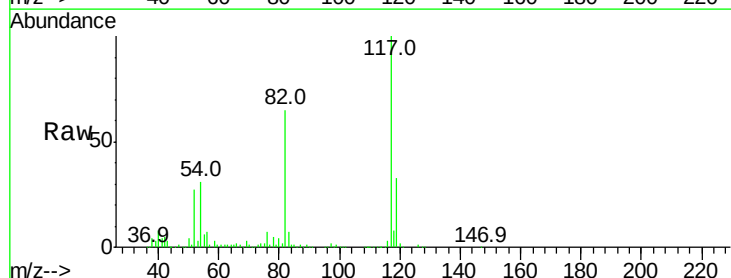
Tgt Ion: 117 Resp: 1998439

Ion Ratio Lower Upper

117 100

82 72.8 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

12.09

1000000

800000

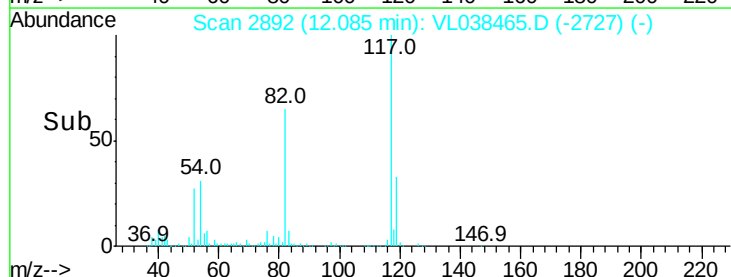
600000

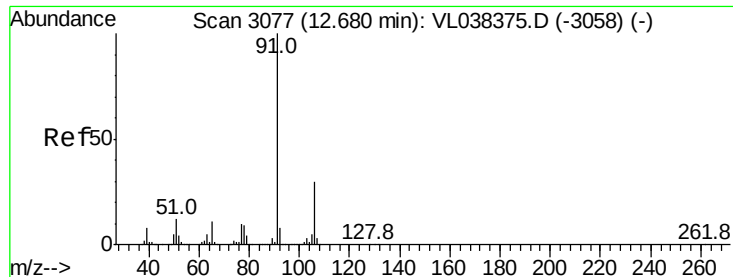
400000

200000

0

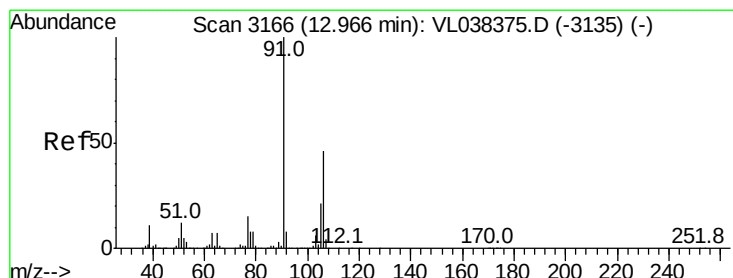
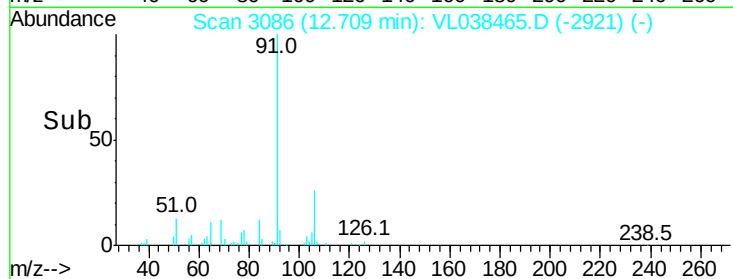
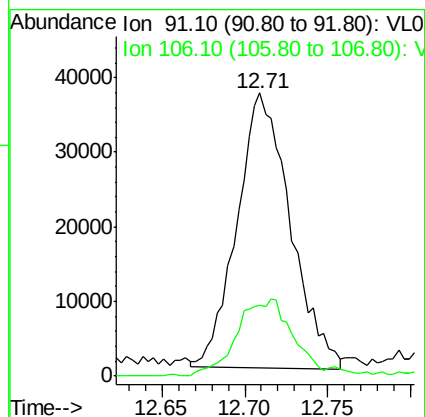
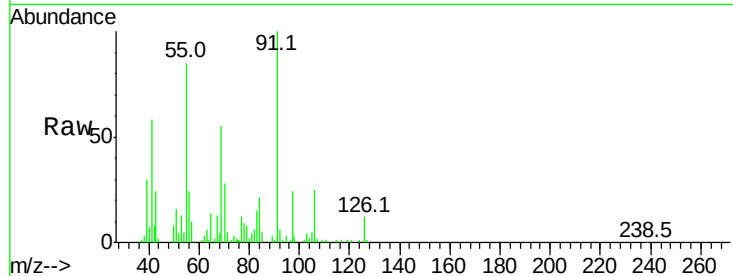
Time-->





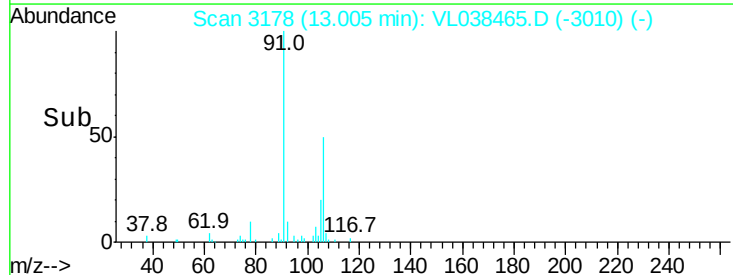
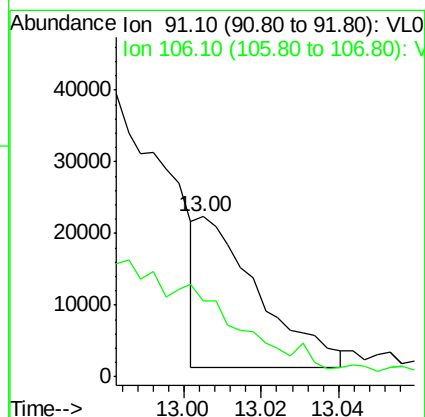
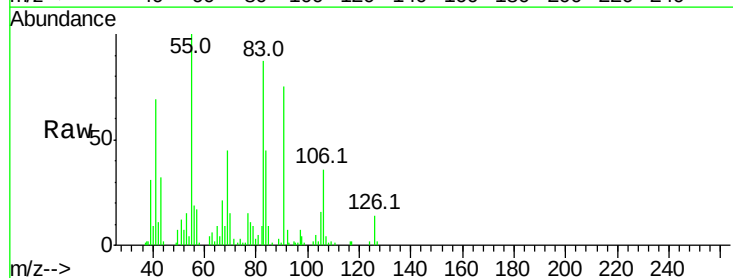
#58
Ethyl Benzene
Concen: 0.30 ppbv
RT: 12.71
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 00:18

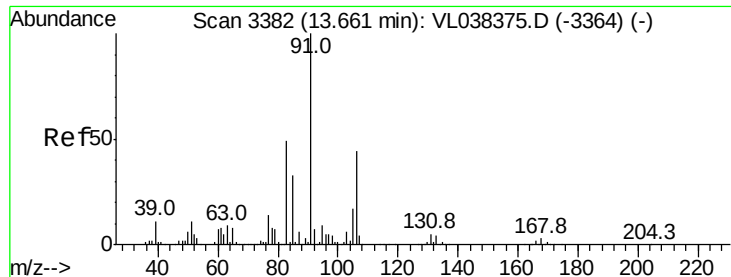
Tgt Ion: 91 Resp: 82024
Ion Ratio Lower Upper
91 100
106 26.4 24.0 36.0



#59
m/p-Xylene
Concen: 0.10 ppbv
RT: 13.00 min Scan# 3178
Delta R.T. 0.04 min
Lab File: VL038465.D
Acq: 2 Mar 2022 00:18

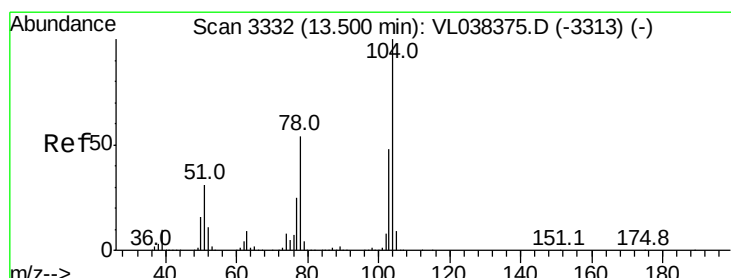
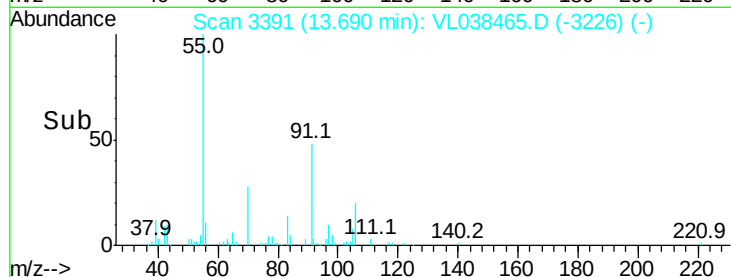
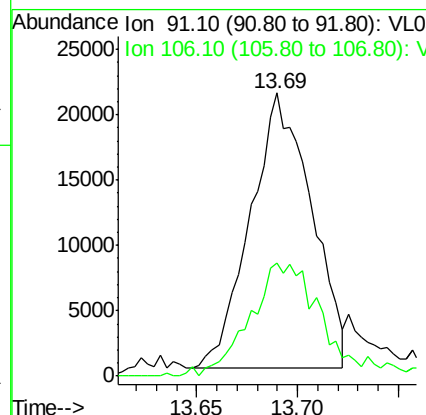
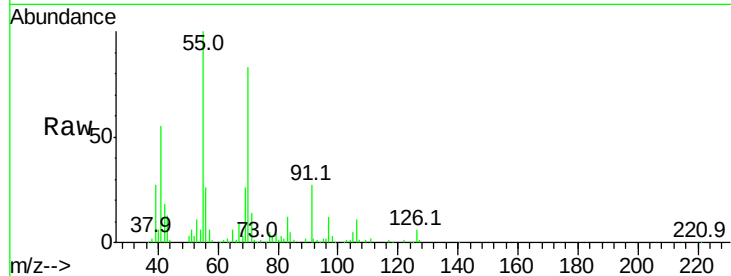
Tgt Ion: 91 Resp: 23014
Ion Ratio Lower Upper
91 100
106 0.0 34.4 51.6#





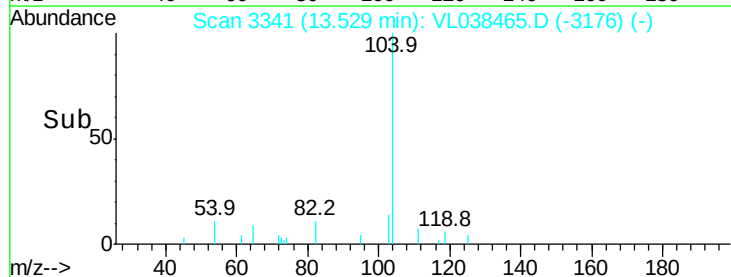
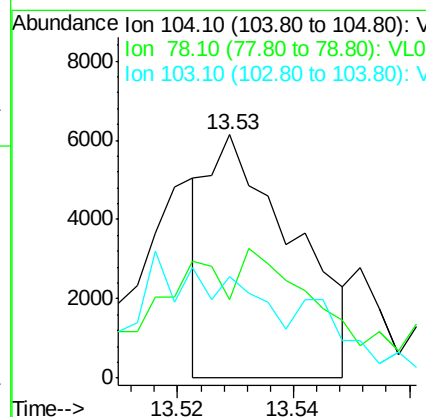
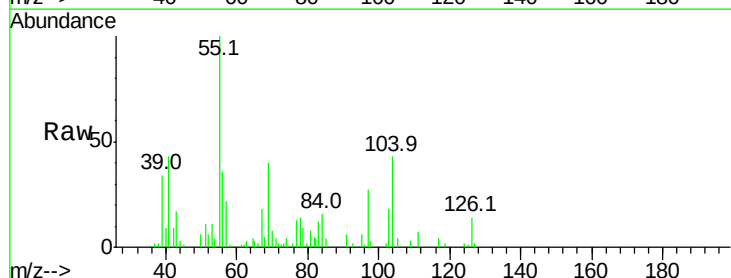
#60
o-Xylene
Concen: 0.20 ppbv
RT: 13.69
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 2 Mar 2022 00:18

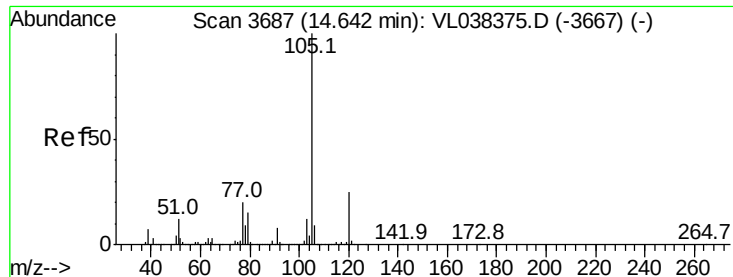
Tgt Ion: 91 Resp: 44536
Ion Ratio Lower Upper
91 100
106 48.1 21.9 65.5



#61
Styrene
Concen: 0.06 ppbv
RT: 13.53 min Scan# 3341
Delta R.T. 0.03 min
Lab File: VL038465.D
Acq: 2 Mar 2022 00:18

Tgt Ion: 104 Resp: 6316
Ion Ratio Lower Upper
104 100
78 131.8 44.2 66.4#
103 0.0 38.4 57.6#





#62

Isopropylbenzene

Concen: 3.88 ppbv

RT: 14.67

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

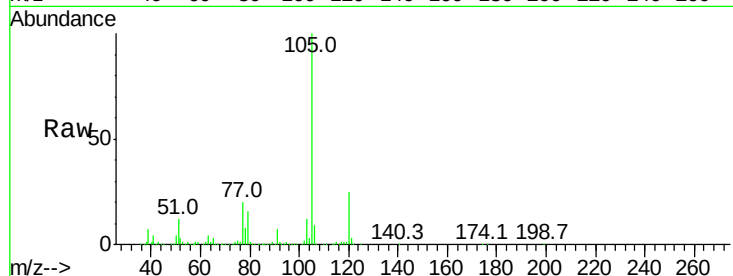
Acq: 2 Mar 2022 00:18

Tgt Ion: 105 Resp: 1155877

Ion Ratio Lower Upper

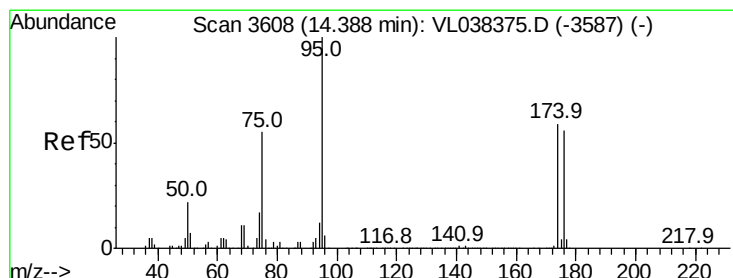
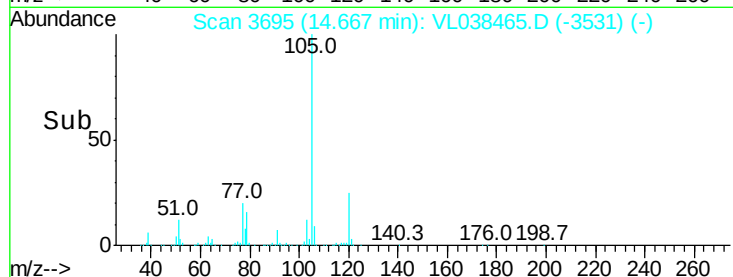
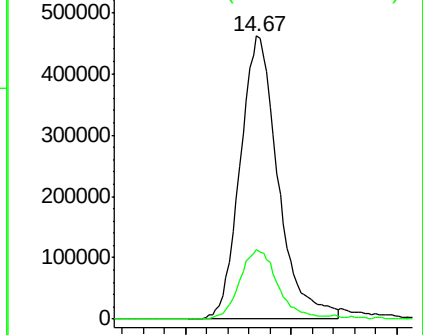
105 100

120 25.7 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: 9.69 ppbv

RT: 14.42 min Scan# 3617

Delta R.T. 0.03 min

Lab File: VL038465.D

Acq: 2 Mar 2022 00:18

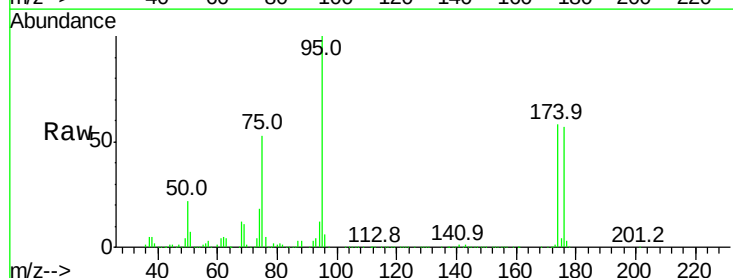
Tgt Ion: 95 Resp: 1602190

Ion Ratio Lower Upper

95 100

174 64.0 49.0 73.4

175 4.5 3.6 5.4



Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V

