

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL022422\
 Data File : VL038438.D
 Acq On : 24 Feb 2022 17:30
 Operator : SY/AP
 Sample : N1607-07DL 10X
 Misc : 400mL/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2DL

Quant Time: Feb 25 00:44:44 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	5.64	49	822005	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.14	114	1979682	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.05	117	1697202	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.37	95	1363423	9.71	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%

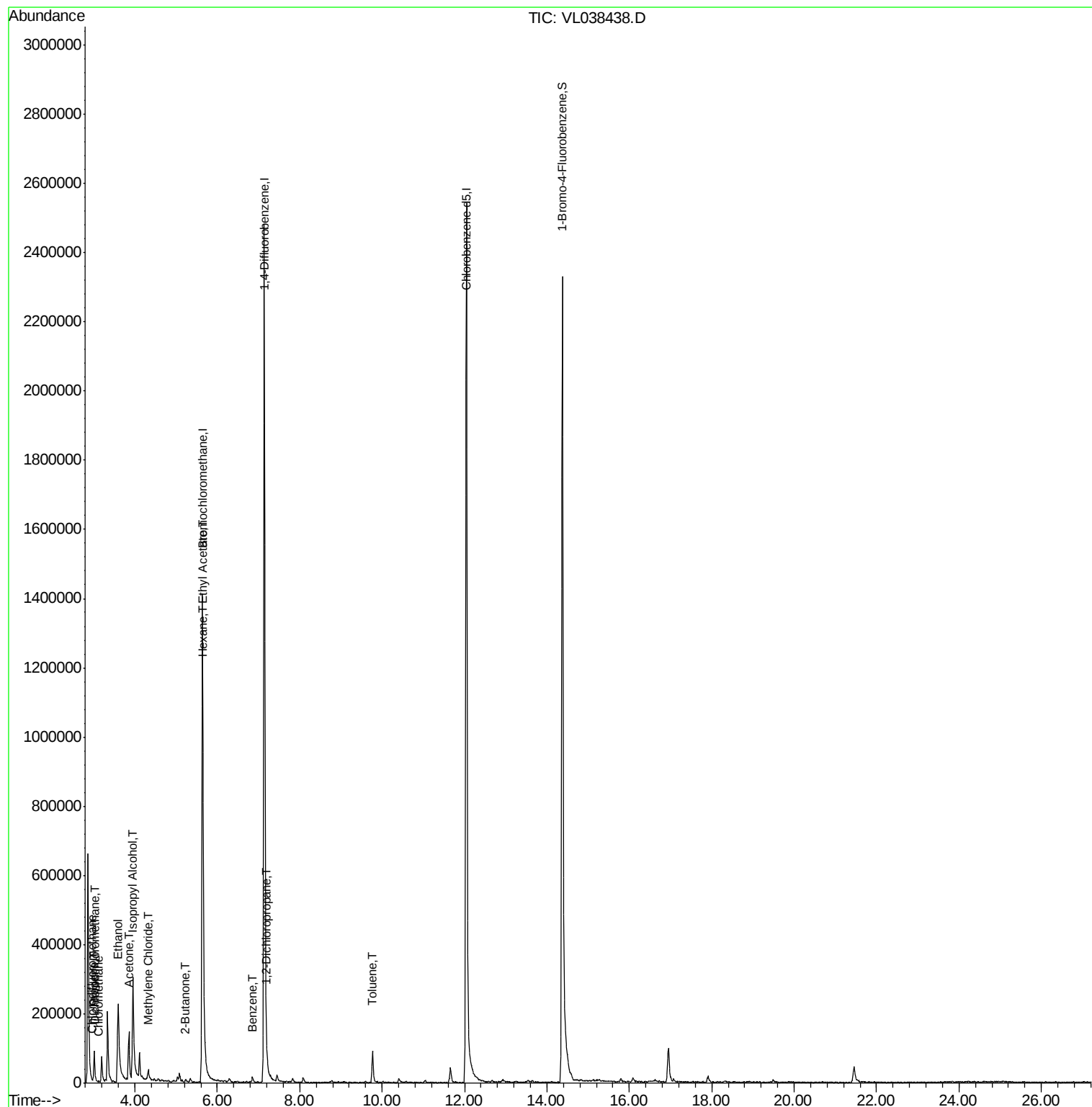
Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	5136	0.04	ppbv	97
3) Chlorodifluoromethane	2.96	51	5492	0.04	ppbv #	73
4) Chloromethane	3.13	50	2838	0.06	ppbv #	79
9) Propene	3.01	41	15377	0.32	ppbv	98
13) Ethanol	3.59	45	357281	74.70	ppbv	94
15) Acetone	3.85	43	94153	1.35	ppbv #	85
19) Isopropyl Alcohol	3.95	45	435681	10.76	ppbv #	98
20) Methylene Chloride	4.31	84	5436	0.16	ppbv #	73
25) Ethyl Acetate	5.65	43	42420	0.23	ppbv #	85
26) Hexane	5.66	57	50182	0.59	ppbv #	45
34) 2-Butanone	5.22	43	4402	0.07	ppbv #	31
36) Benzene	6.86	78	5274	0.03	ppbv #	84
39) 1,2-Dichloropropane	7.20	63	6718	0.10	ppbv #	31
53) Toluene	9.76	91	36020	0.19	ppbv #	20

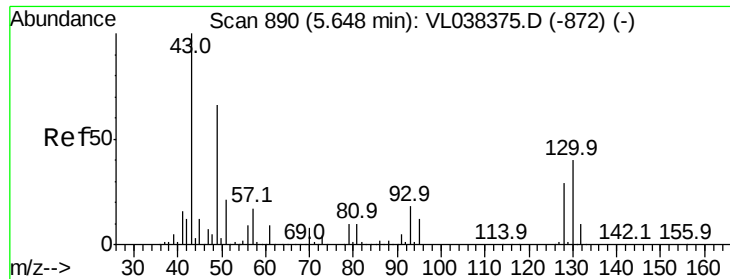
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.00 ppbv

RT: 5.64 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Feb 2022 17:30

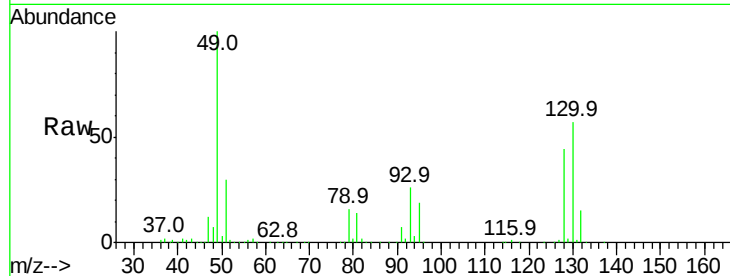
Tgt Ion: 49 Resp: 822005

Ion Ratio Lower Upper

49 100

128 48.4 24.3 72.9

130 60.7 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

500000

400000

300000

200000

100000

0

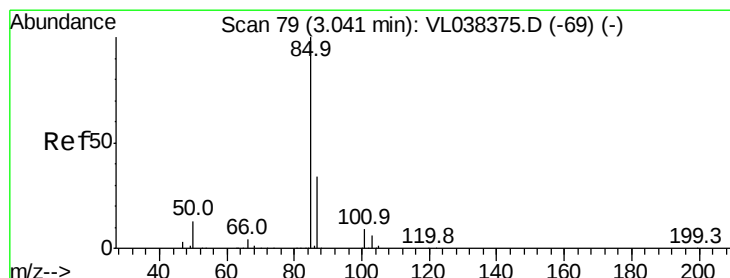
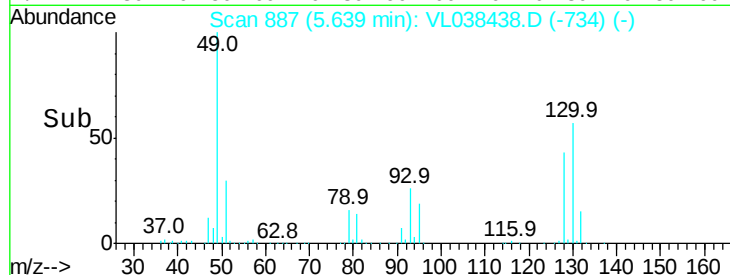
5.55

5.60

5.64

5.70

Time-->



#2

Dichlorodifluoromethane

Concen: 0.04 ppbv

RT: 3.03 min Scan# 77

Delta R.T. -0.01 min

Lab File: VL038438.D

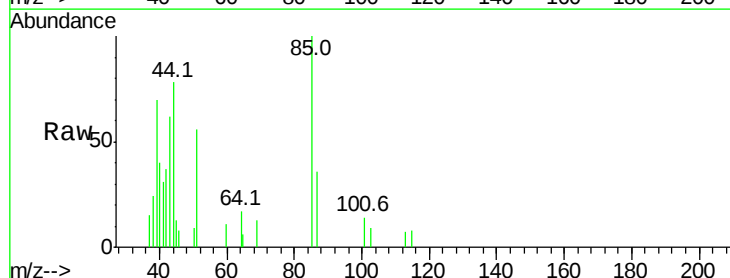
Acq: 24 Feb 2022 17:30

Tgt Ion: 85 Resp: 5136

Ion Ratio Lower Upper

85 100

87 36.0 27.4 41.0



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

4000

3000

2000

1000

0

3.00

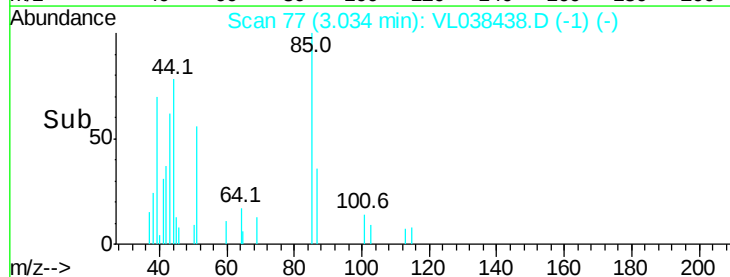
3.02

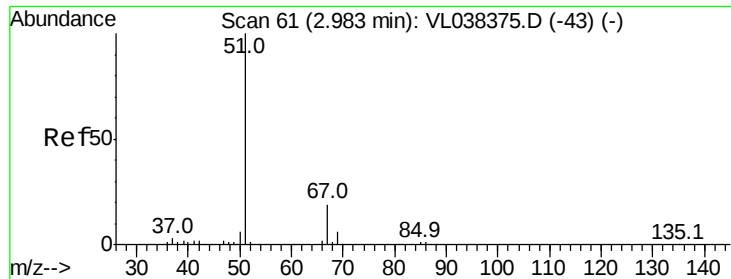
3.03

3.04

3.06

Time-->





#3

Chlorodifluoromethane

Concen: 0.04 ppbv

RT: 2.96 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

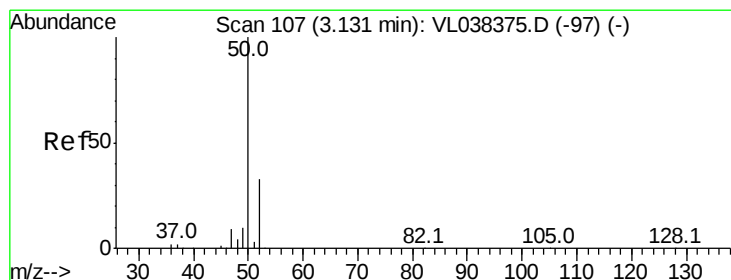
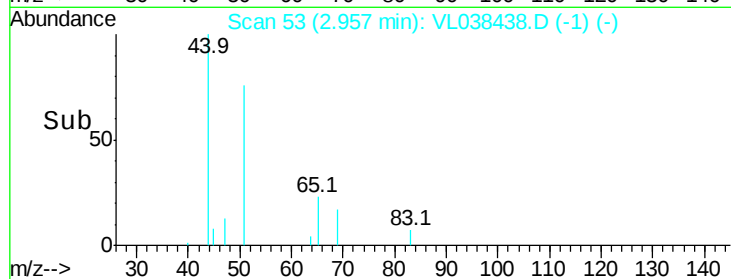
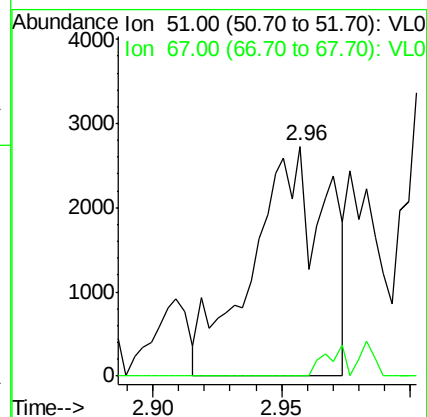
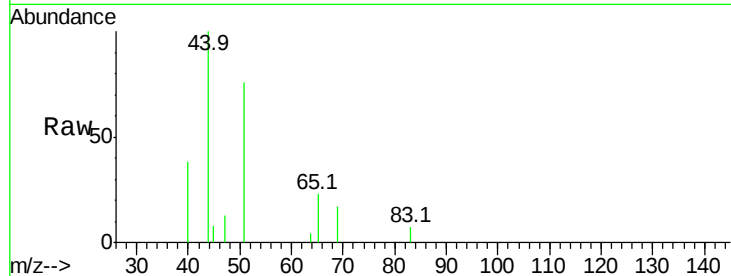
Acq: 24 Feb 2022 17:30

Tgt Ion: 51 Resp: 5492

Ion Ratio Lower Upper

51 100

67 6.4 14.7 22.1#



#4

Chloromethane

Concen: 0.06 ppbv

RT: 3.13 min Scan# 106

Delta R.T. -0.00 min

Lab File: VL038438.D

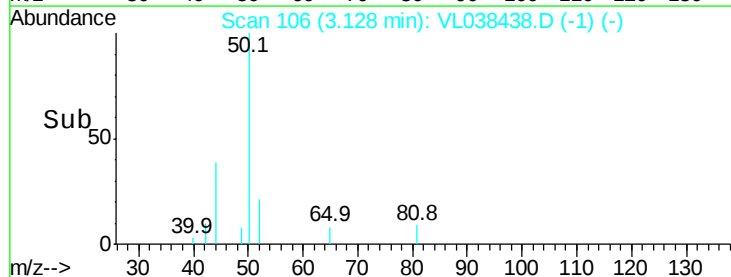
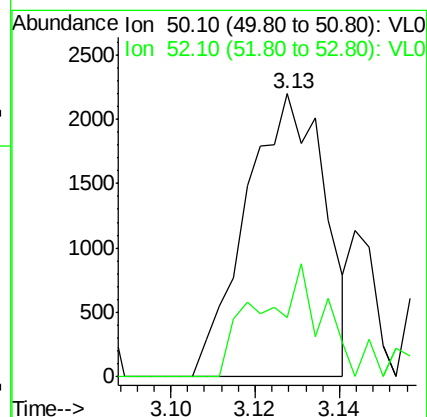
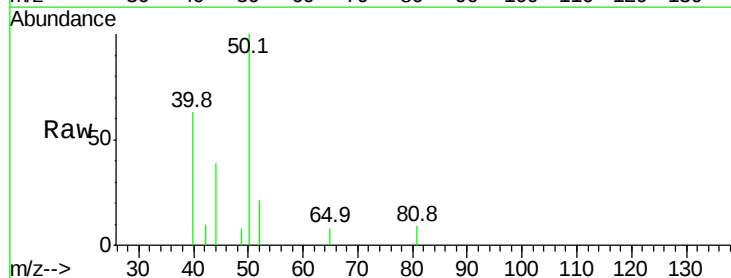
Acq: 24 Feb 2022 17:30

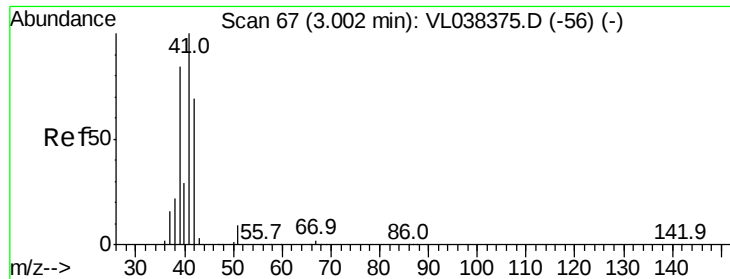
Tgt Ion: 50 Resp: 2838

Ion Ratio Lower Upper

50 100

52 21.0 26.5 39.7#





#9

Propene

Concen: 0.32 ppbv

RT: 3.01 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

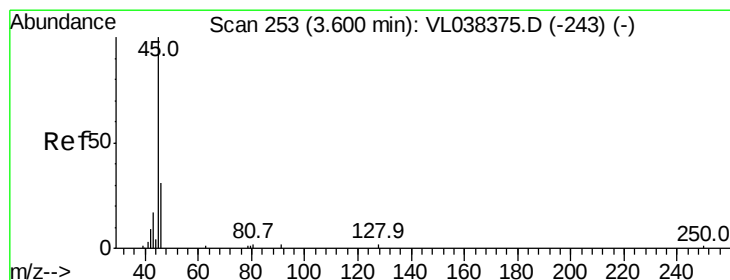
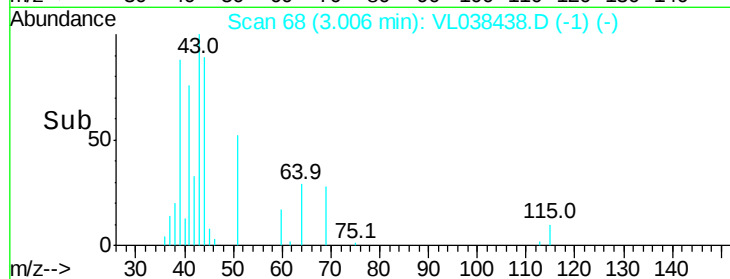
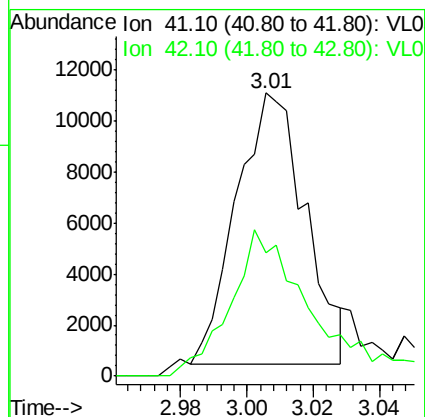
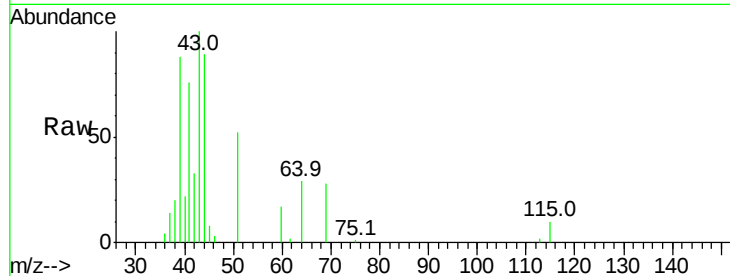
Acq: 24 Feb 2022 17:30

Tgt Ion: 41 Resp: 15377

Ion Ratio Lower Upper

41 100

42 67.0 54.6 82.0



#13

Ethanol

Concen: 74.70 ppbv

RT: 3.59 min Scan# 251

Delta R.T. -0.01 min

Lab File: VL038438.D

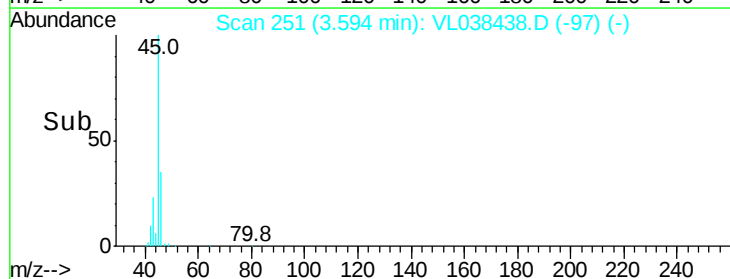
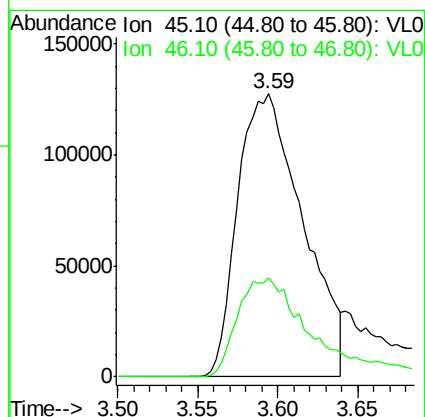
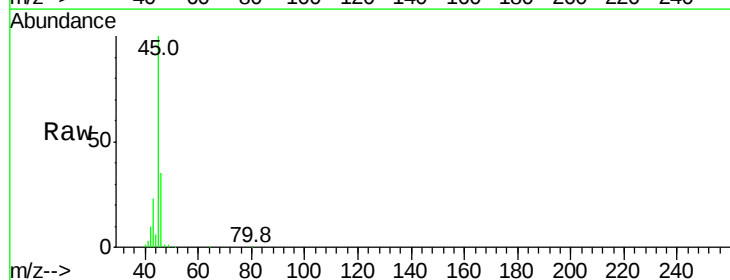
Acq: 24 Feb 2022 17:30

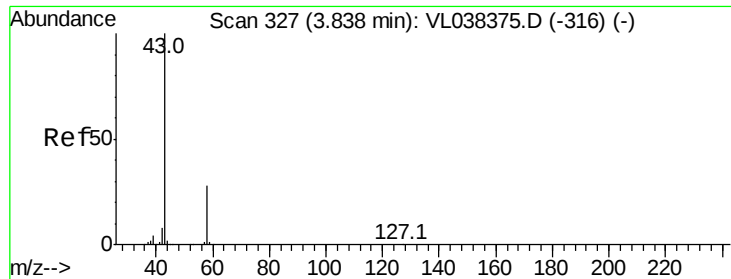
Tgt Ion: 45 Resp: 357281

Ion Ratio Lower Upper

45 100

46 41.7 18.2 72.8





#15

Acetone

Concen: 1.35 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

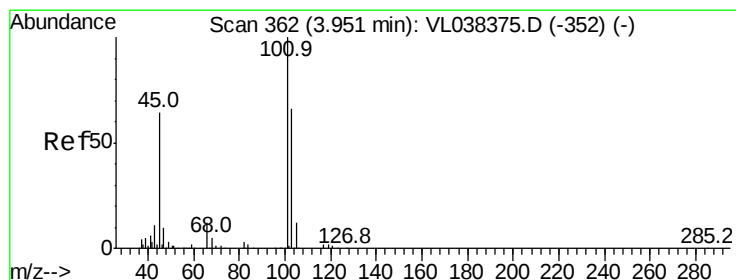
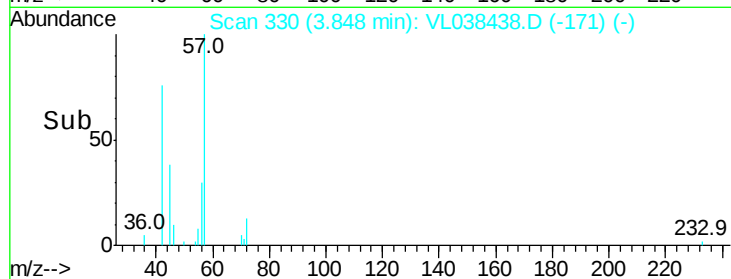
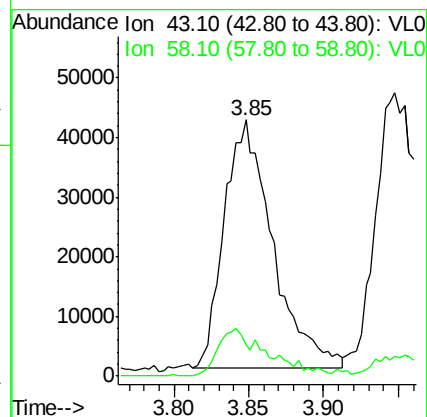
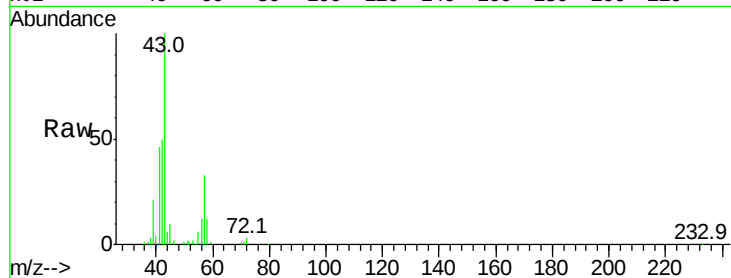
Acq: 24 Feb 2022 17:30

Tgt Ion: 43 Resp: 94153

Ion Ratio Lower Upper

43 100

58 19.3 21.7 32.5#



#19

Isopropyl Alcohol

Concen: 10.76 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.00 min

Lab File: VL038438.D

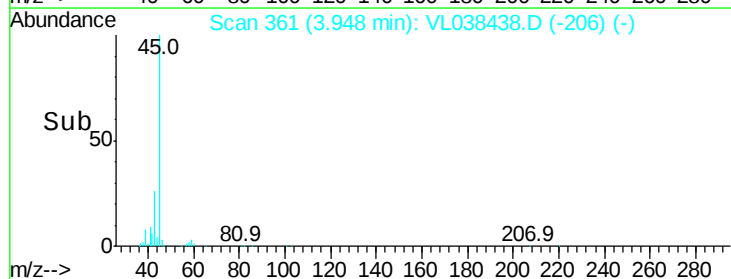
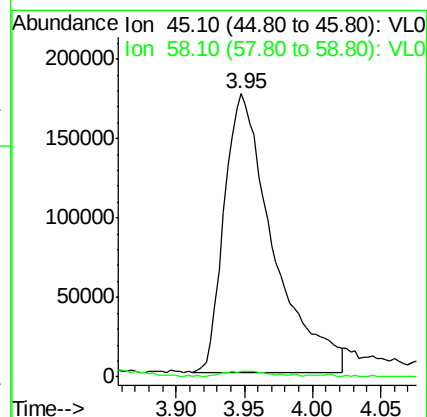
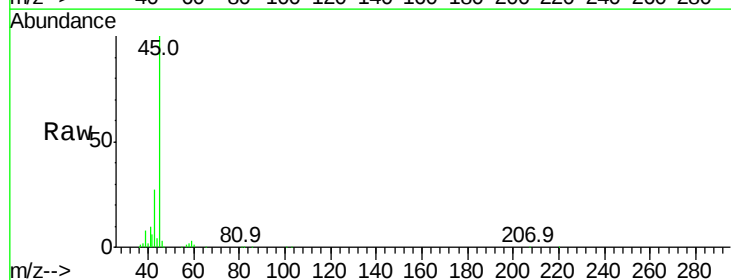
Acq: 24 Feb 2022 17:30

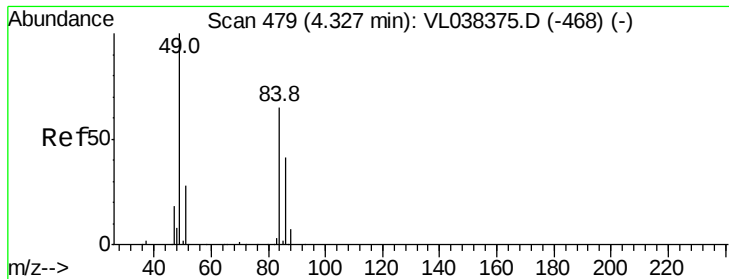
Tgt Ion: 45 Resp: 435681

Ion Ratio Lower Upper

45 100

58 2.8 1.8 2.8#





#20

Methylene Chloride

Concen: 0.16 ppbv

RT: 4.31 Instrument:

Delta R.T. MSVOA_1

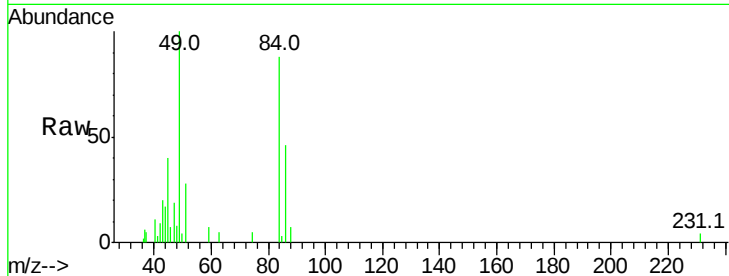
Lab File: ClientSampleId:

Acq: 24 Feb 2022 17:30

Tgt Ion: 84 Resp: 5436

Ion Ratio Lower Upper

84	100		
49	108.4	122.4	183.6#
51	32.2	33.3	49.9#
86	51.8	50.7	76.1

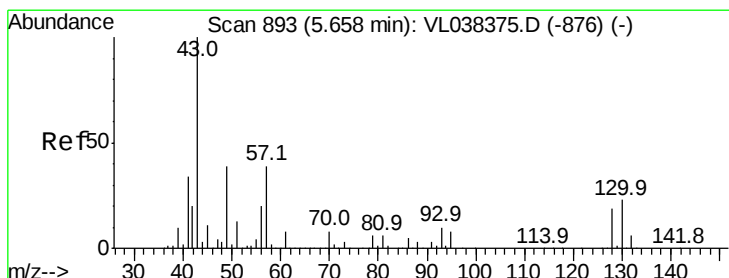
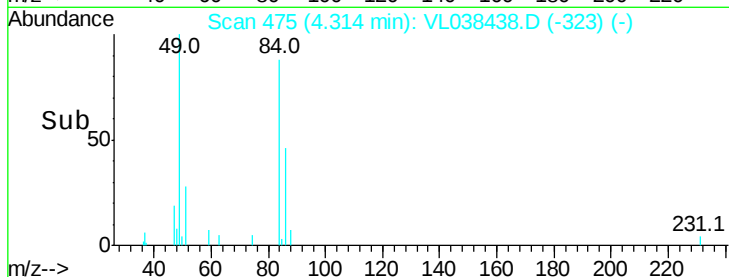
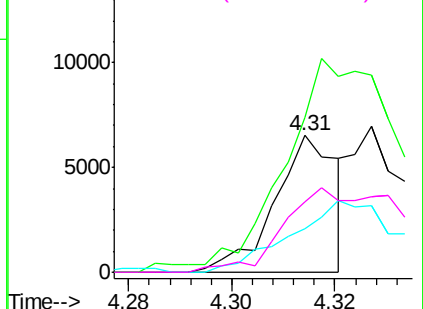


Abundance Ion 84.00 (83.70 to 84.70): VL0

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: 0.23 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.00 min

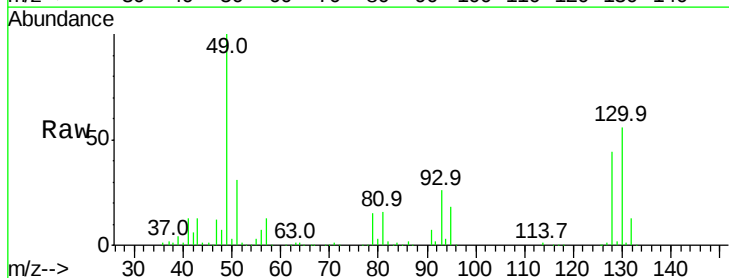
Lab File: VL038438.D

Acq: 24 Feb 2022 17:30

Tgt Ion: 43 Resp: 42420

Ion Ratio Lower Upper

43	100		
45	5.4	7.8	11.6#
61	1.4	7.5	11.3#
70	3.1	5.4	8.0#

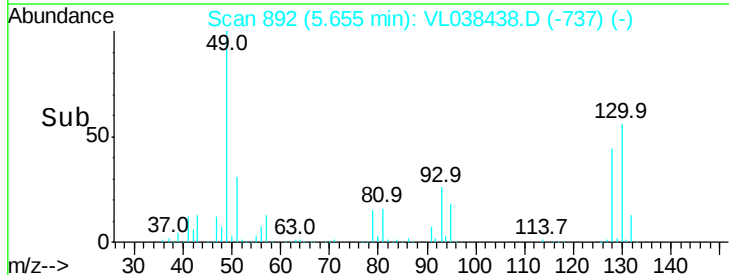
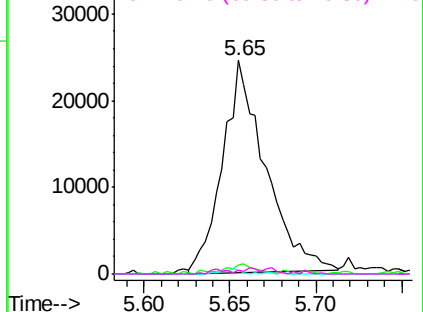


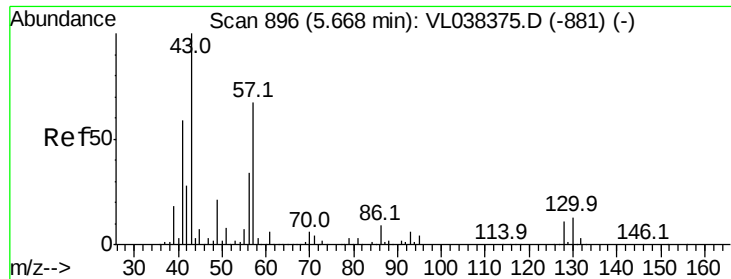
Abundance Ion 43.10 (42.80 to 43.80): VL0

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: 0.59 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

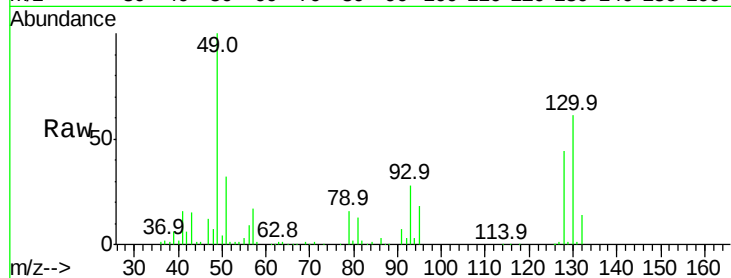
Lab File: ClientSampleId:

Acq: 24 Feb 2022 17:30

Tgt Ion: 57 Resp: 50182

Ion Ratio Lower Upper

57	100		
41	107.1	73.1	109.7
43	91.7	181.0	271.4#
56	60.9	43.4	65.0

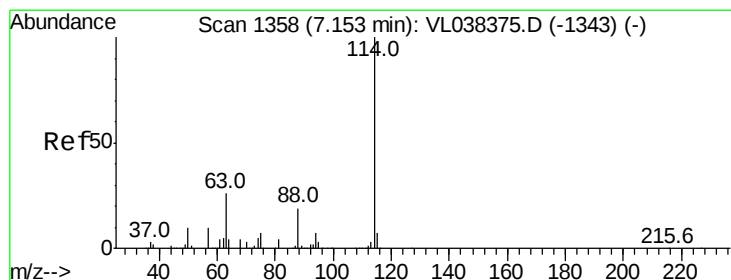
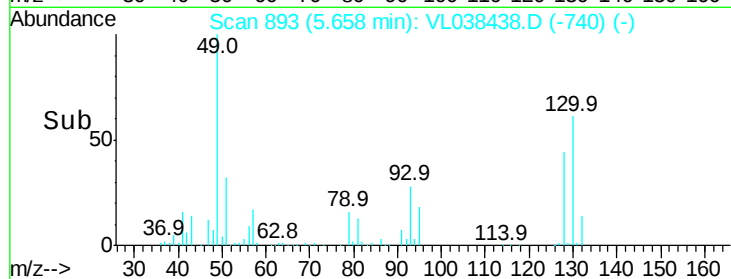
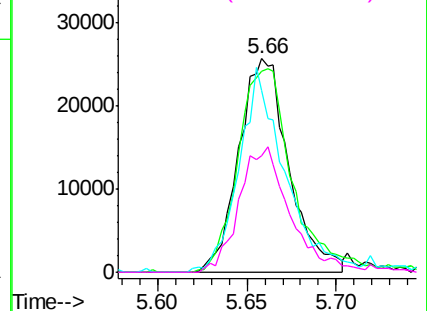


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.00 ppbv

RT: 7.14 min Scan# 1354

Delta R.T. -0.01 min

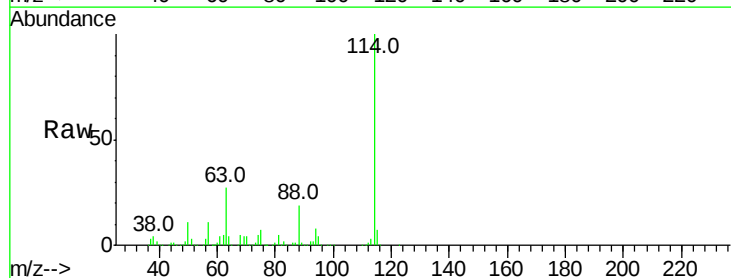
Lab File: VL038438.D

Acq: 24 Feb 2022 17:30

Tgt Ion: 114 Resp: 1979682

Ion Ratio Lower Upper

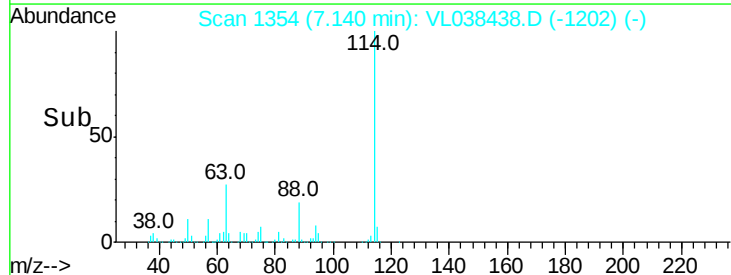
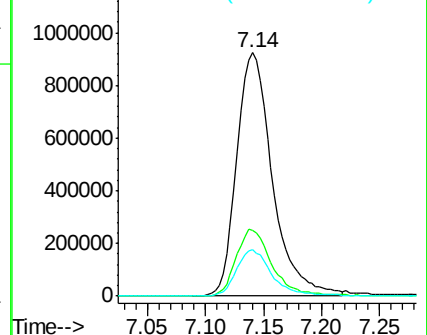
114	100		
63	28.1	22.2	33.2
88	19.3	15.2	22.8

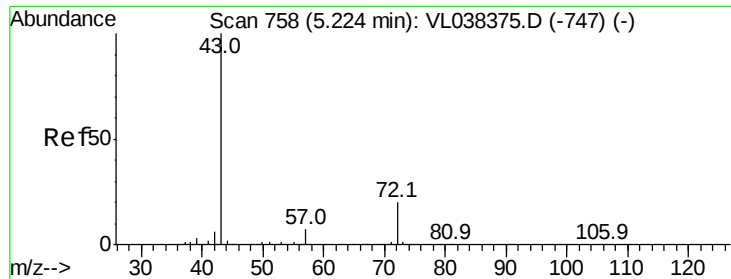


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

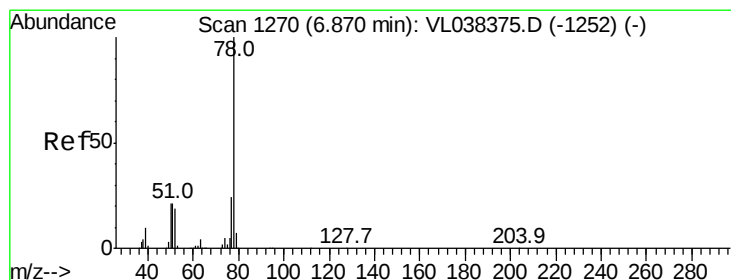
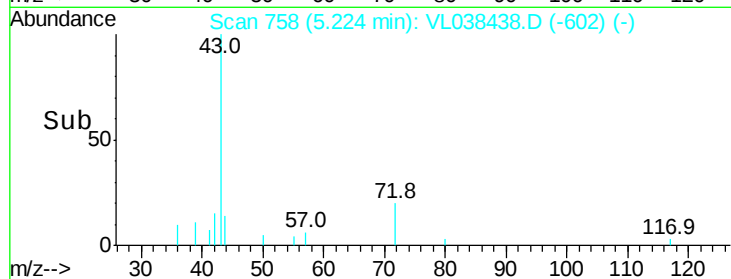
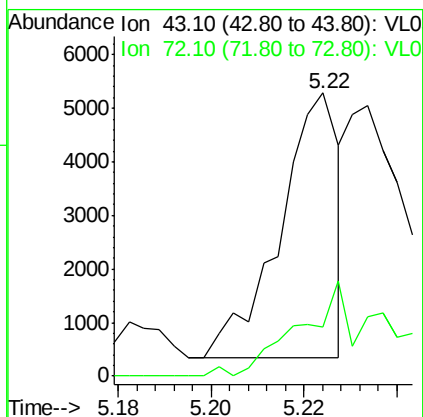
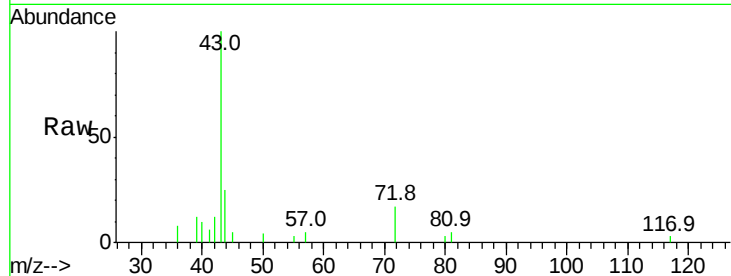
Ion 88.10 (87.80 to 88.80): VL0





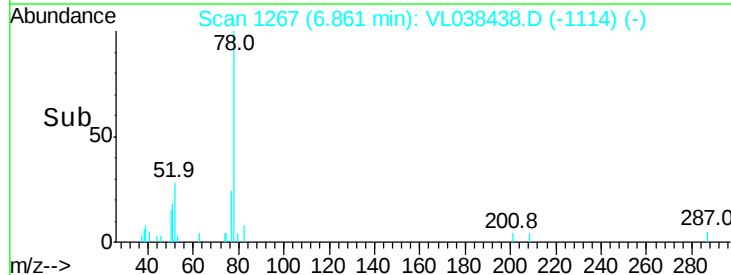
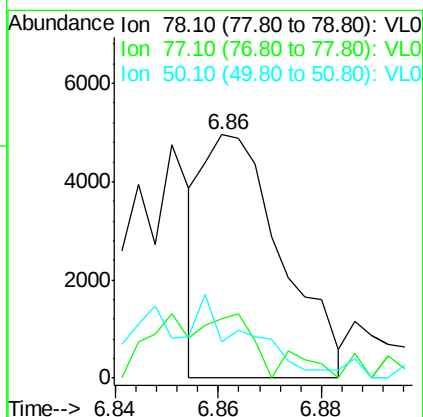
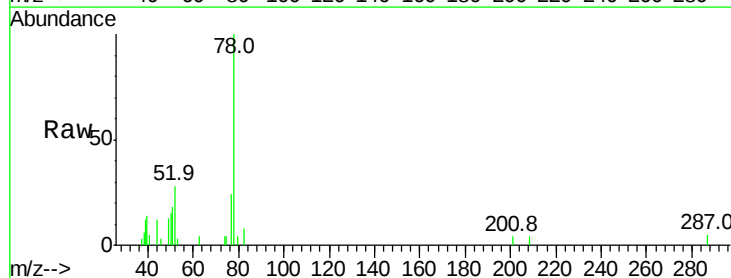
#34
2-Butanone
Concen: 0.07 ppbv
RT: 5.22
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Feb 2022 17:30

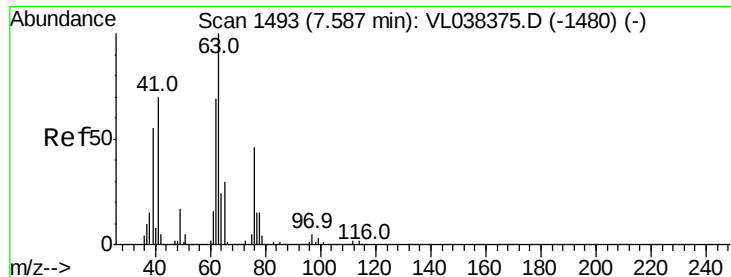
Tgt Ion: 43 Resp: 4402
Ion Ratio Lower Upper
43 100
72 54.5 17.4 26.2#



#36
Benzene
Concen: 0.03 ppbv
RT: 6.86 min Scan# 1267
Delta R.T. -0.01 min
Lab File: VL038438.D
Acq: 24 Feb 2022 17:30

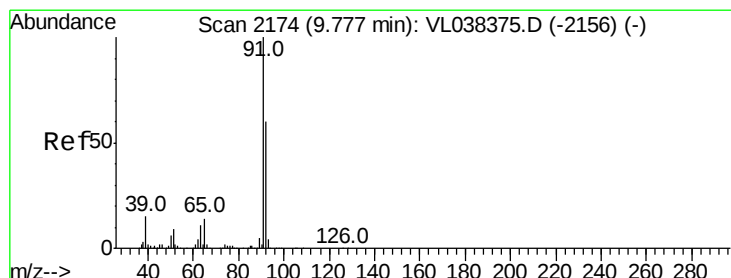
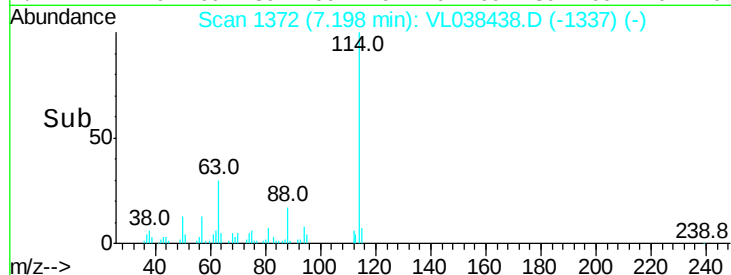
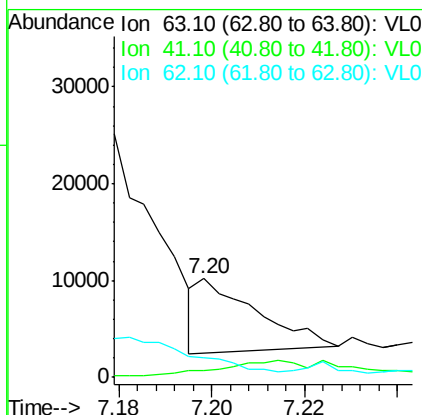
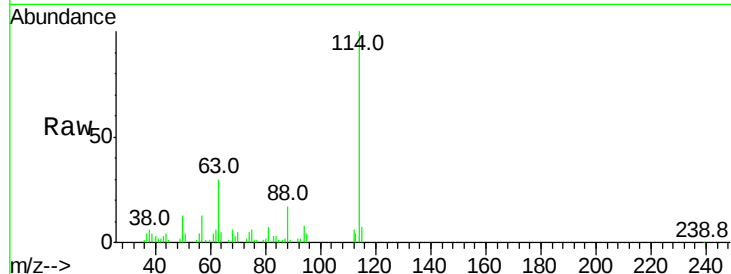
Tgt Ion: 78 Resp: 5274
Ion Ratio Lower Upper
78 100
77 27.3 19.0 28.6
50 33.1 16.6 24.8#





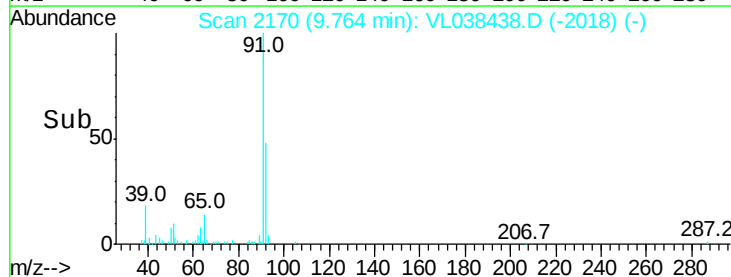
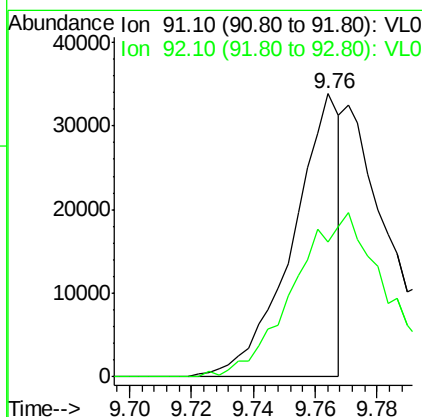
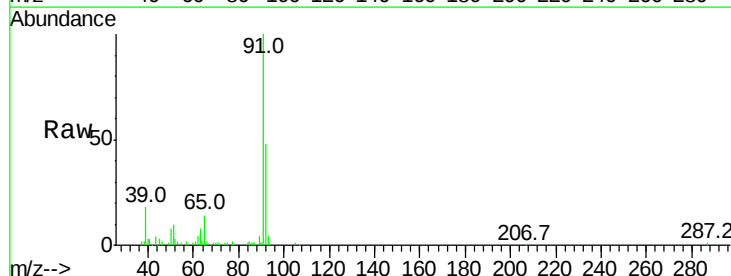
#39
 1,2-Dichloropropane
 Concen: 0.10 ppbv
 RT: 7.20
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Feb 2022 17:30

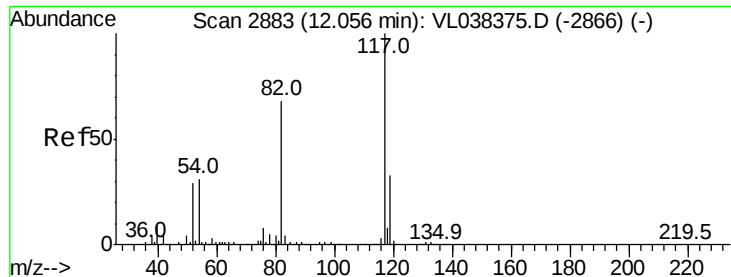
Tgt Ion: 63 Resp: 6718
 Ion Ratio Lower Upper
 63 100
 41 8.1 56.1 84.1#
 62 18.7 55.5 83.3#



#53
 Toluene
 Concen: 0.19 ppbv
 RT: 9.76 min Scan# 2170
 Delta R.T. -0.01 min
 Lab File: VL038438.D
 Acq: 24 Feb 2022 17:30

Tgt Ion: 91 Resp: 36020
 Ion Ratio Lower Upper
 91 100
 92 0.0 48.2 72.4#

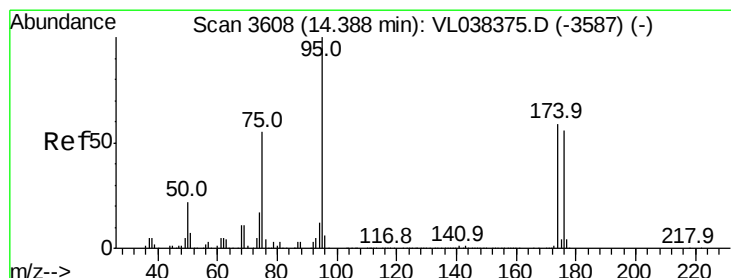
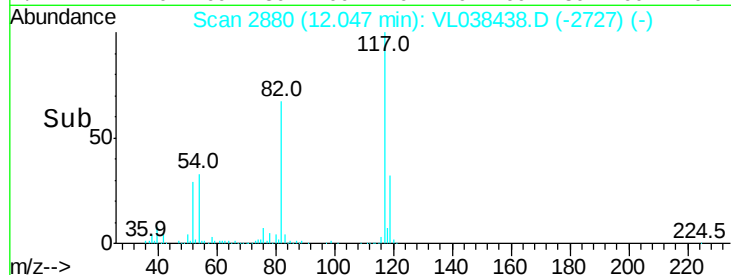
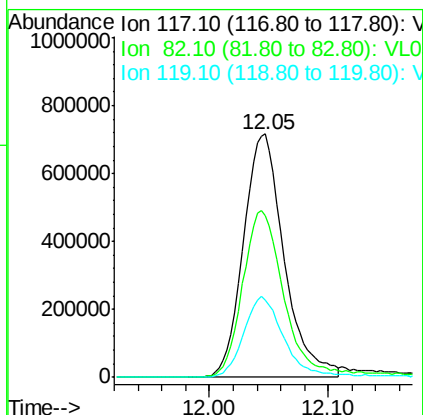
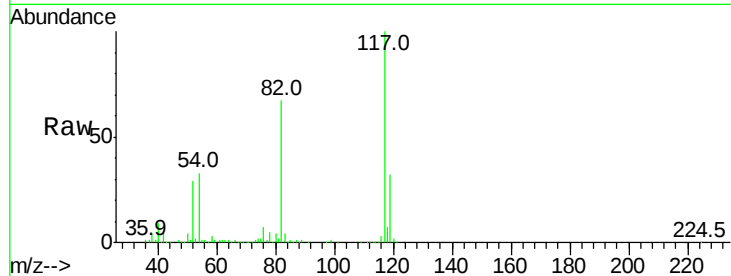




#55
 Chlorobenzene-d5
 Concen: 10.00 ppbv
 RT: 12.05 min
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 24 Feb 2022 17:30

Tgt Ion: 117 Resp: 1697202

Ion	Ratio	Lower	Upper
117	100		
82	74.0	54.9	82.3
119	34.2	46.1	69.1#



#68
 1-Bromo-4-Fluorobenzene
 Concen: 9.71 ppbv
 RT: 14.37 min Scan# 3604
 Delta R.T.: -0.01 min
 Lab File: VL038438.D
 Acq: 24 Feb 2022 17:30

Tgt Ion: 95 Resp: 1363423

Ion	Ratio	Lower	Upper
95	100		
174	60.1	49.0	73.4
175	4.2	3.6	5.4

