

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081722\
 Data File : VL039553.D
 Acq On : 17 Aug 2022 18:16
 Operator : SY/AP
 Sample : N4125-02DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1DL

Quant Time: Aug 18 05:37:26 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081722AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug 17 12:06:24 2022
 QLast Update : Wed Aug 17 12:06:24 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.21	49	1060332	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	6.66	114	2808703	10.00	ppbv	0.00
55) Chlorobenzene-d5	11.47	117	2522951	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	13.78	95	1887709	9.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

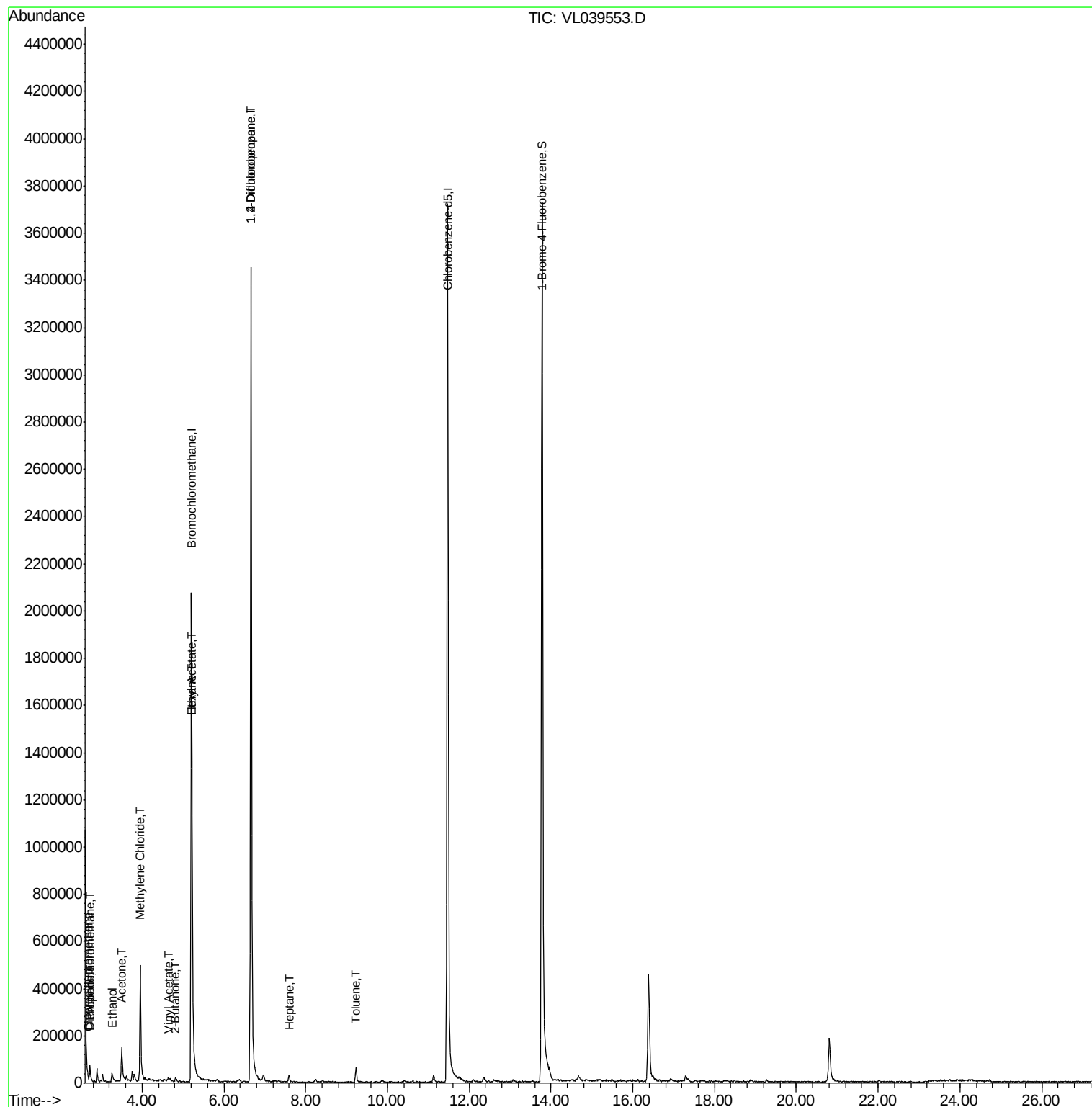
Target Compounds					Ovalue
2) Dichlorodifluoromethane	2.75	85	4832	0.034 ppbv	96
3) Chlorodifluoromethane	2.69	51	11506	0.091 ppbv #	79
9) Propene	2.73	41	17184	0.297 ppbv #	76
10) Heptane	7.59	43	4629	0.034 ppbv #	28
13) Ethanol	3.27	45	19359	4.646 ppbv #	29
15) Acetone	3.50	43	115409	0.963 ppbv #	73
20) Methylene Chloride	3.95	84	169540	3.476 ppbv	97
23) Vinyl Acetate	4.64	43	3510	0.058 ppbv #	46
25) Ethyl Acetate	5.23	43	112235	0.439 ppbv #	96
26) Hexane	5.23	57	64053	0.612 ppbv #	79
34) 2-Butanone	4.82	43	6163	0.044 ppbv #	1
39) 1,2-Dichloropropane	6.66	63	701014	8.738 ppbv #	22
53) Toluene	9.23	91	23120	0.096 ppbv #	21

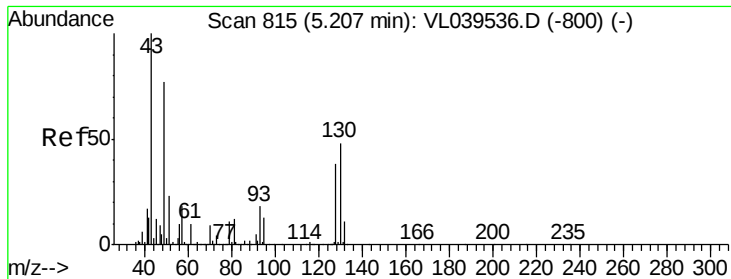
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.21 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Aug 2022 18:16

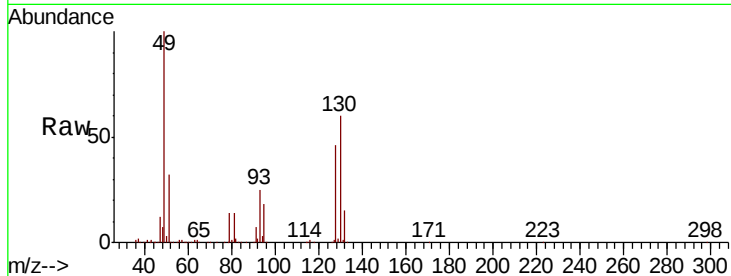
Tot Ion: 49 Resp: 1060332

Ion Ratio Lower Upper

49 100

128 49.3 25.7 77.0

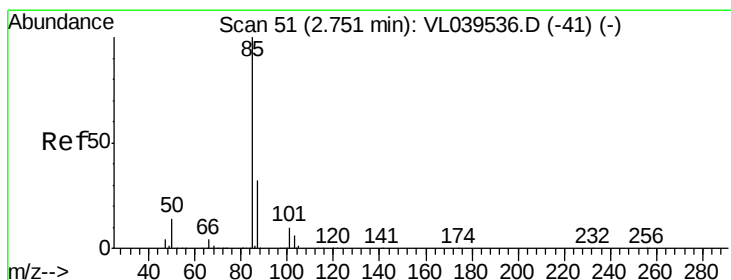
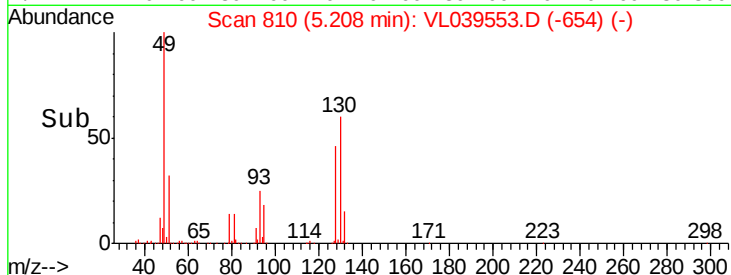
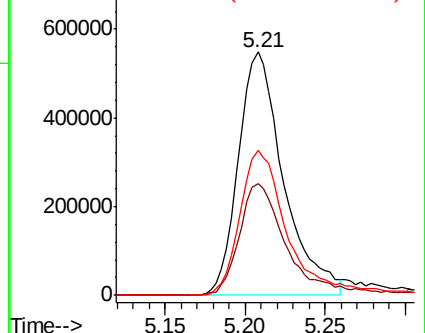
130 65.4 31.6 95.0



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: 0.034 ppbv

RT: 2.75 min Scan# 46

Delta R.T. 0.00 min

Lab File: VL039553.D

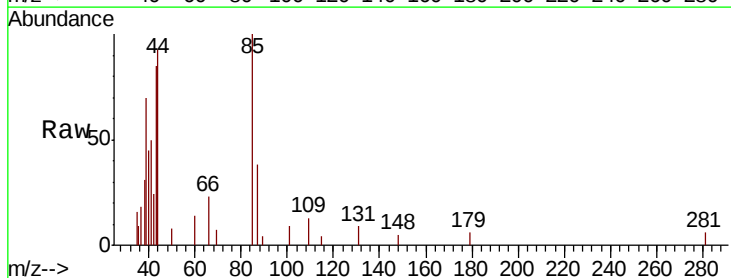
Acq: 17 Aug 2022 18:16

Tgt Ion: 85 Resp: 4832

Ion Ratio Lower Upper

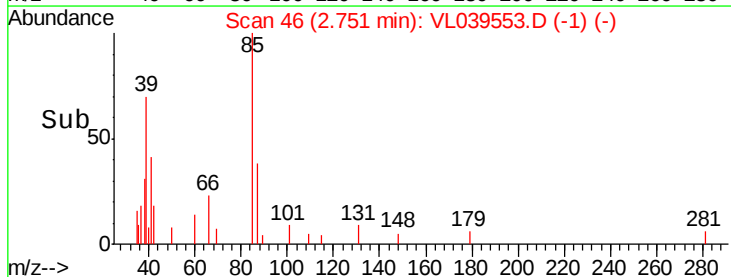
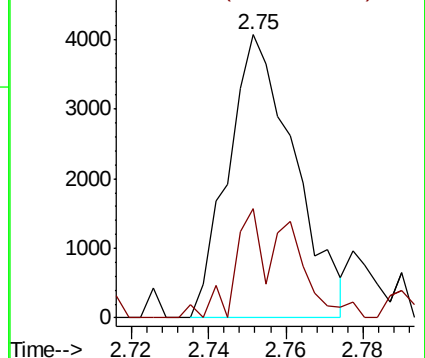
85 100

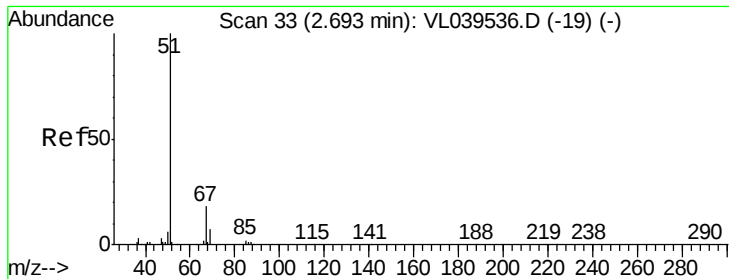
87 34.8 25.9 38.9



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.091 ppbv

RT: 2.69 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

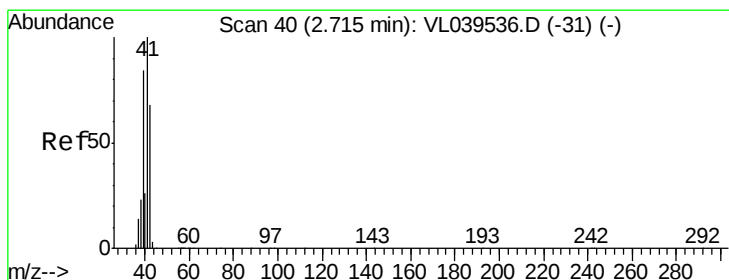
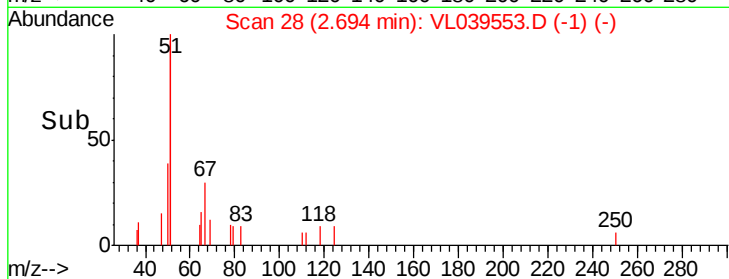
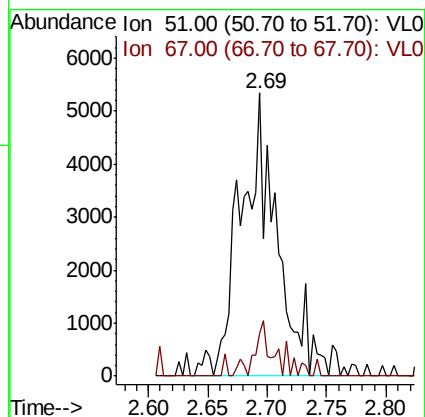
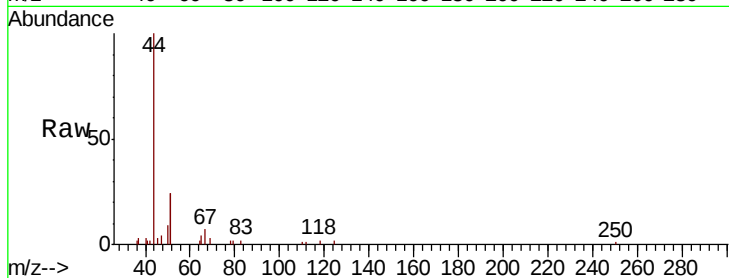
Acq: 17 Aug 2022 18:16

Tot Ion: 51 Resp: 11506

Ion Ratio Lower Upper

51 100

67 9.0 14.7 22.1#



#9

Propene

Concen: 0.297 ppbv

RT: 2.73 min Scan# 40

Delta R.T. 0.02 min

Lab File: VL039553.D

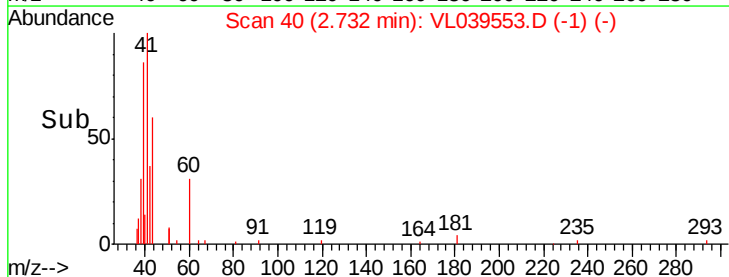
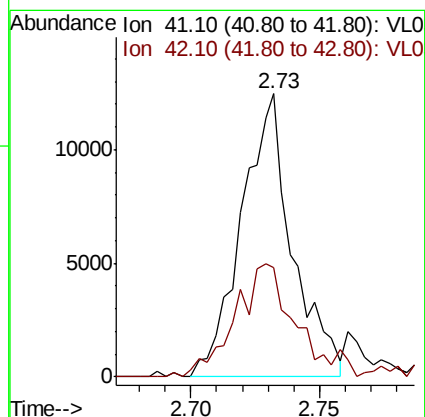
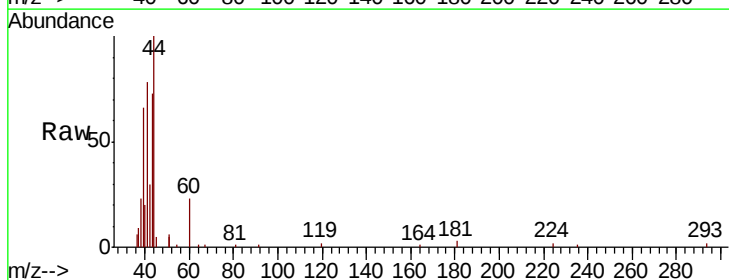
Acq: 17 Aug 2022 18:16

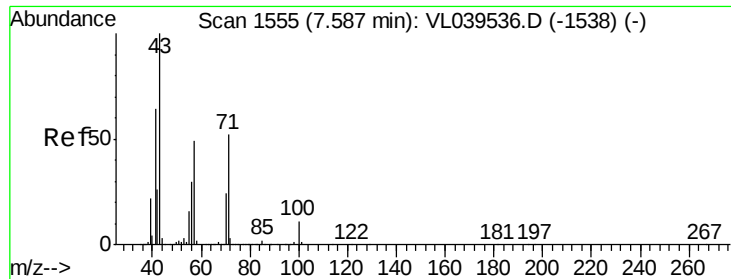
Tgt Ion: 41 Resp: 17184

Ion Ratio Lower Upper

41 100

42 49.8 55.4 83.0#





#10

Heptane

Concen: 0.034 ppbv

RT: 7.59 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

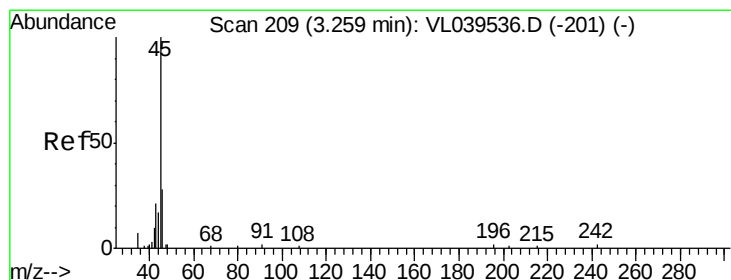
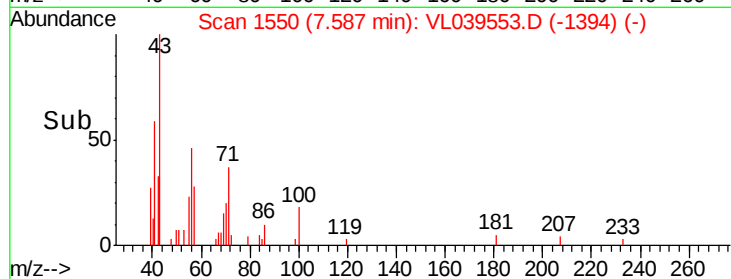
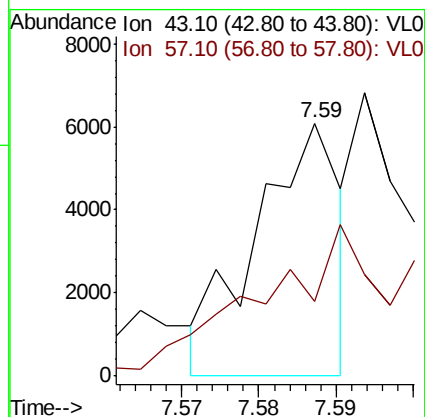
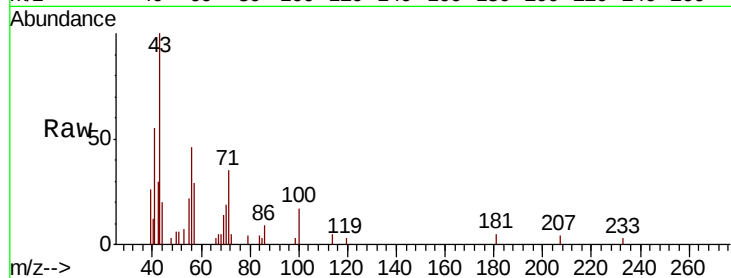
Acq: 17 Aug 2022 18:16

Tot Ion: 43 Resp: 4629

Ion Ratio Lower Upper

43 100

57 0.0 39.8 59.6#



#13

Ethanol

Concen: 4.646 ppbv

RT: 3.27 min Scan# 206

Delta R.T. 0.01 min

Lab File: VL039553.D

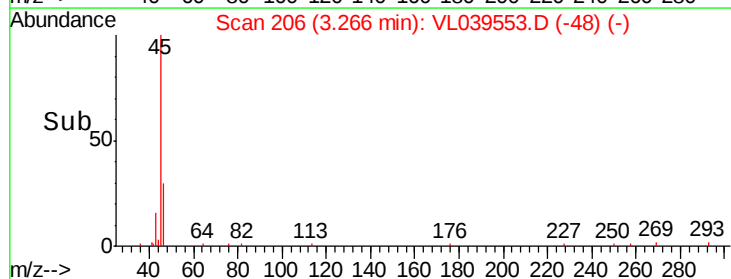
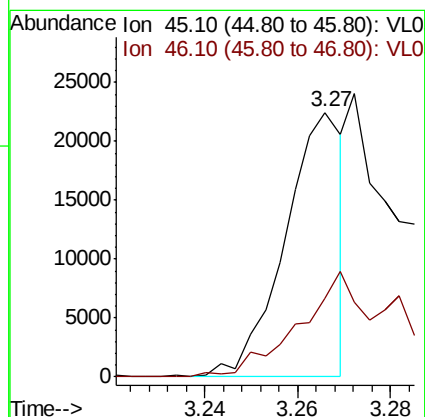
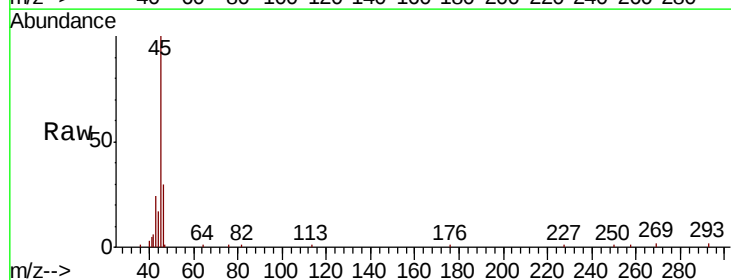
Acq: 17 Aug 2022 18:16

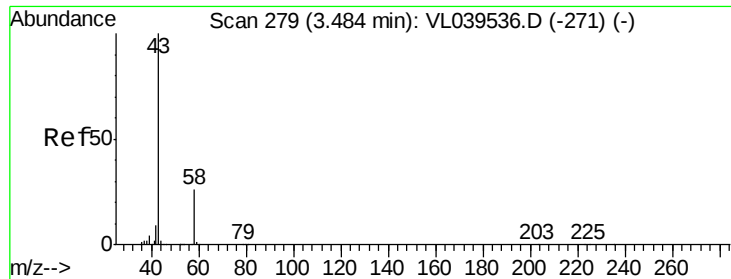
Tgt Ion: 45 Resp: 19359

Ion Ratio Lower Upper

45 100

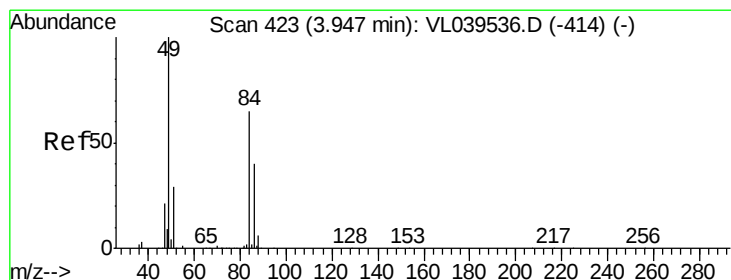
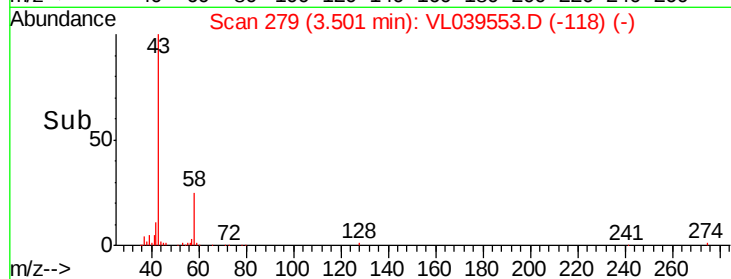
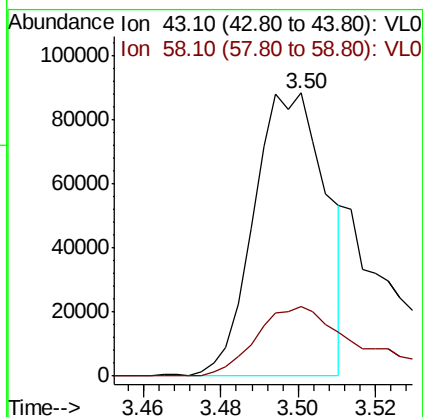
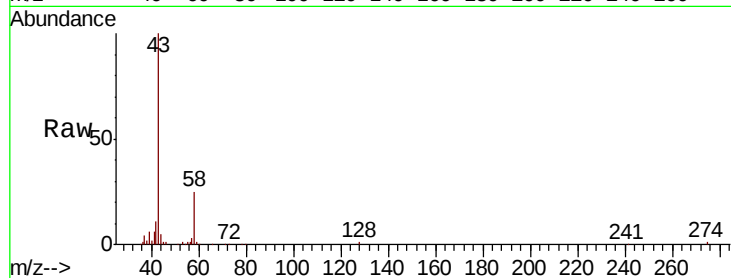
46 0.0 19.3 77.1#





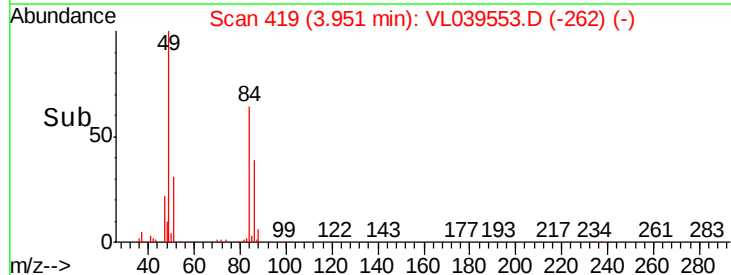
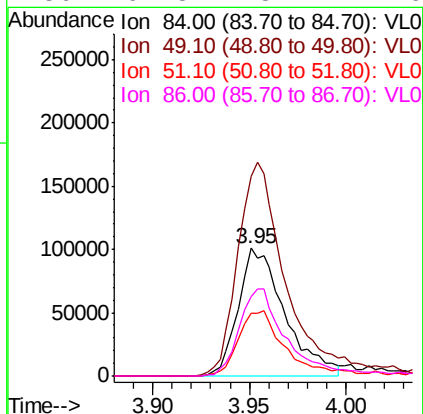
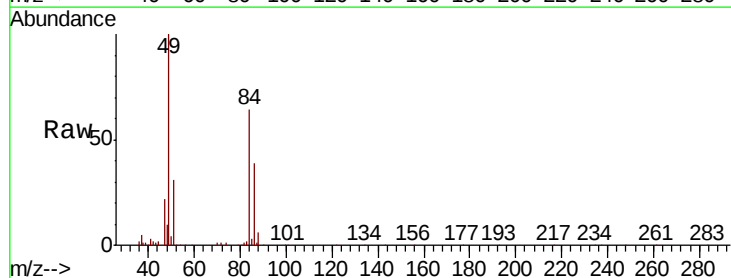
#15
Acetone
Concen: 0.963 ppbv
RT: 3.50
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 17 Aug 2022 18:16

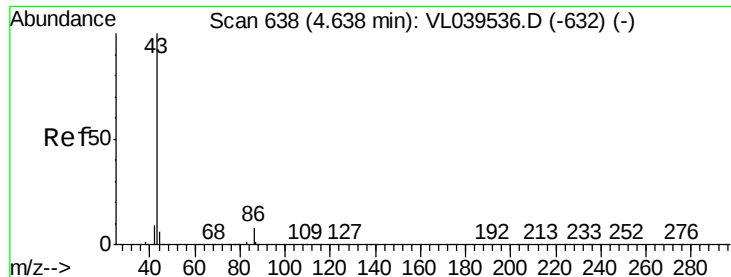
Tot Ion: 43 Resp: 115409
Ion Ratio Lower Upper
43 100
58 39.5 20.7 31.1#



#20
Methylene Chloride
Concen: 3.476 ppbv
RT: 3.95 min Scan# 419
Delta R.T. 0.00 min
Lab File: VL039553.D
Acq: 17 Aug 2022 18:16

Tgt Ion: 84 Resp: 169540
Ion Ratio Lower Upper
84 100
49 156.1 122.2 183.4
51 48.9 35.8 53.6
86 61.8 48.4 72.6





#23

Vinyl Acetate

Concen: 0.058 ppbv

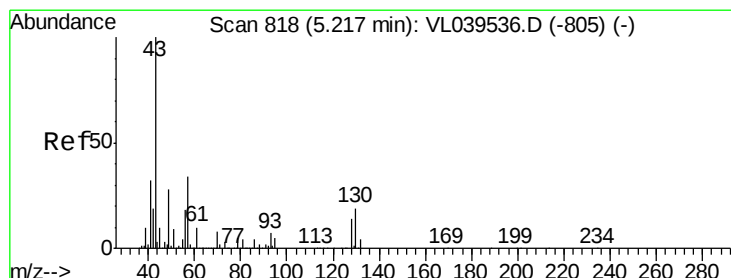
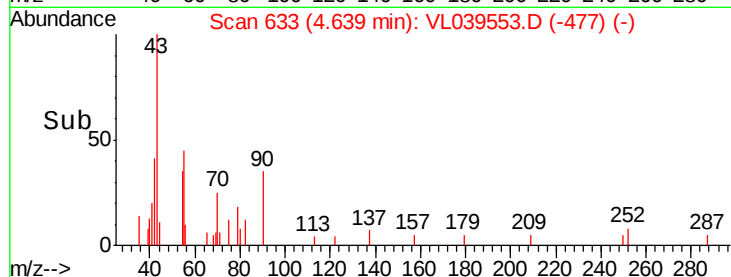
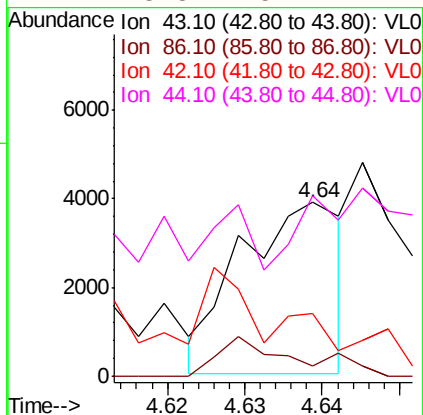
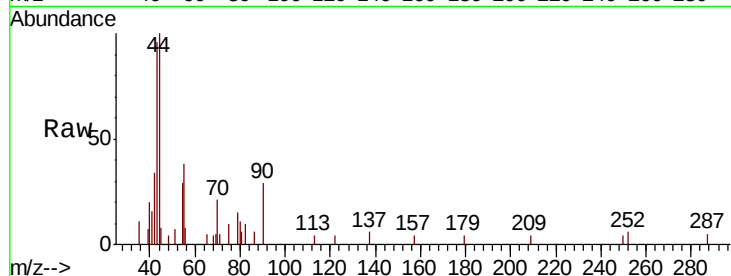
RT: 4.64 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 17 Aug 2022 18:16

Tot Ion:	43	Resp:	3510
Ion	Ratio	Lower	Upper
43	100		
86	7.8	5.3	7.9
42	26.9	8.7	13.1#
44	48.8	5.1	7.7#



#25

Ethyl Acetate

Concen: 0.439 ppbv

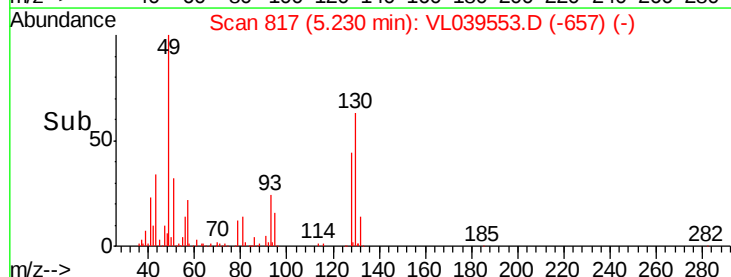
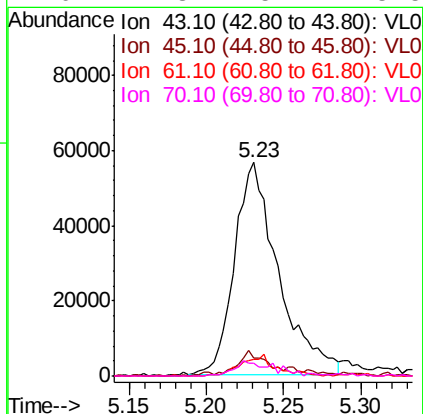
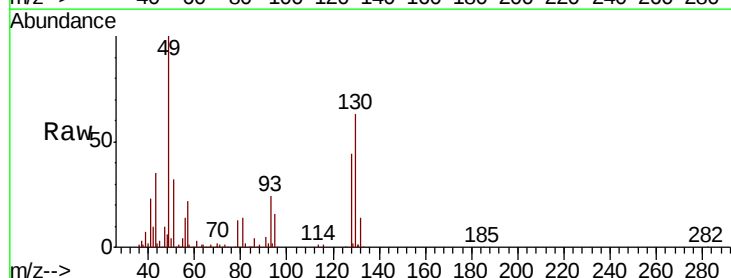
RT: 5.23 min Scan# 817

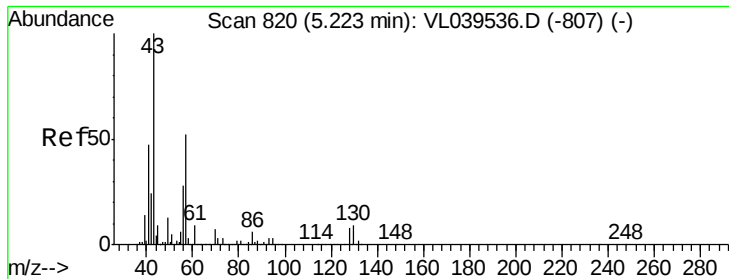
Delta R.T. 0.01 min

Lab File: VL039553.D

Acq: 17 Aug 2022 18:16

Tgt Ion:	43	Resp:	112235
Ion	Ratio	Lower	Upper
43	100		
45	11.3	8.2	12.4
61	7.8	8.6	12.8#
70	7.3	5.7	8.5





#26

Hexane

Concen: 0.612 ppbv

RT: 5.23 Instrument: MSVOA_1

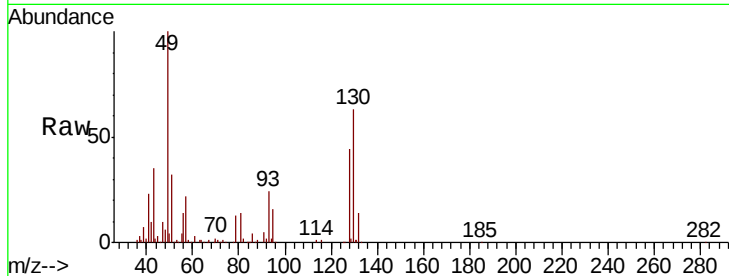
Delta R.T. ClientSampleId:

Lab File: IA1DL

Acq: 17 Aug 2022 18:16

Tot Ion: 57 Resp: 64053

Ion	Ratio	Lower	Upper
57	100		
41	103.1	79.4	119.2
43	195.6	199.7	299.5#
56	59.1	44.0	66.0

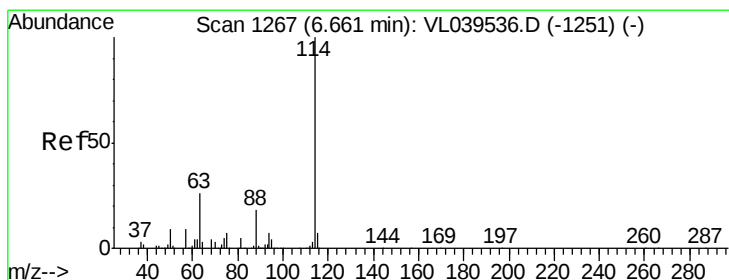
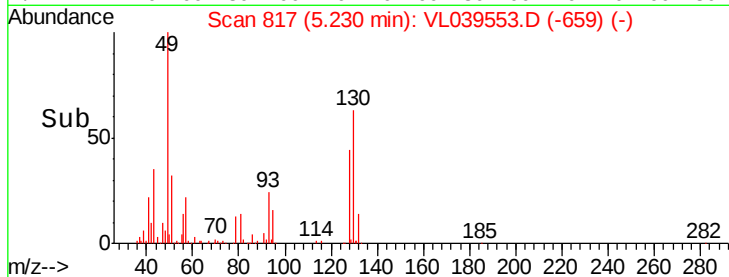
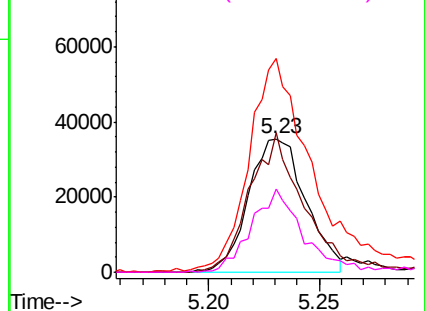


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 10.000 ppbv

RT: 6.66 min Scan# 1263

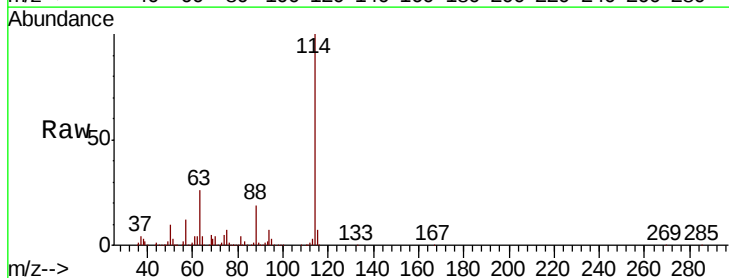
Delta R.T. 0.00 min

Lab File: VL039553.D

Acq: 17 Aug 2022 18:16

Tgt Ion: 114 Resp: 2808703

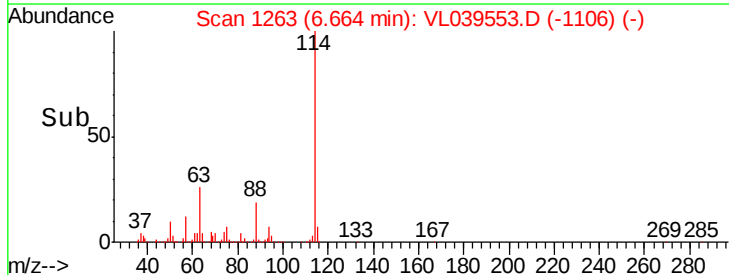
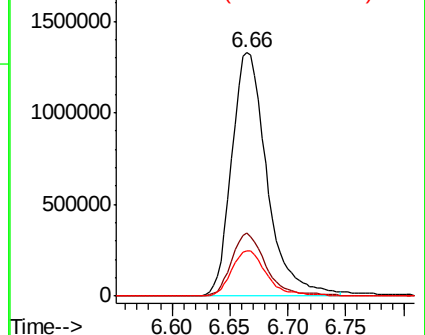
Ion	Ratio	Lower	Upper
114	100		
63	25.5	20.6	31.0
88	18.8	14.6	22.0

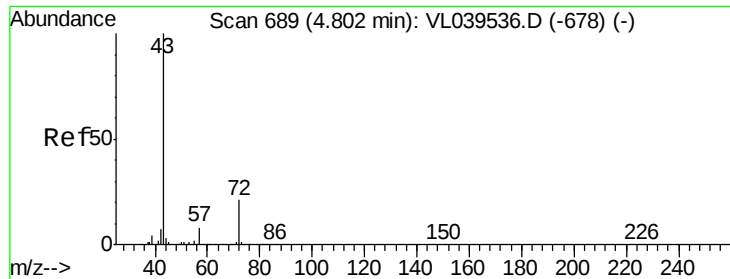


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

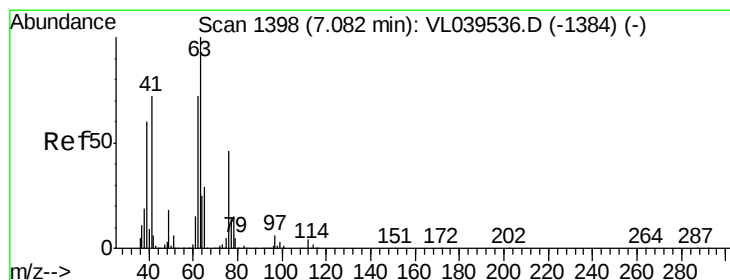
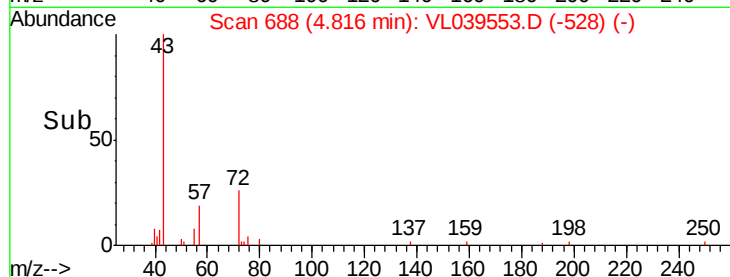
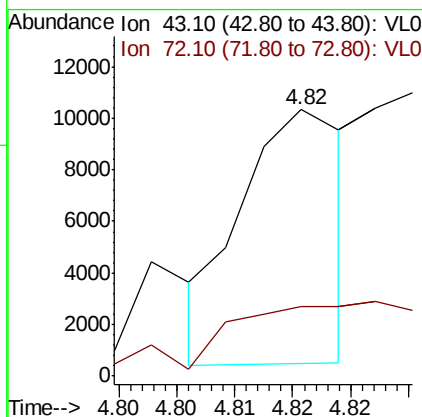
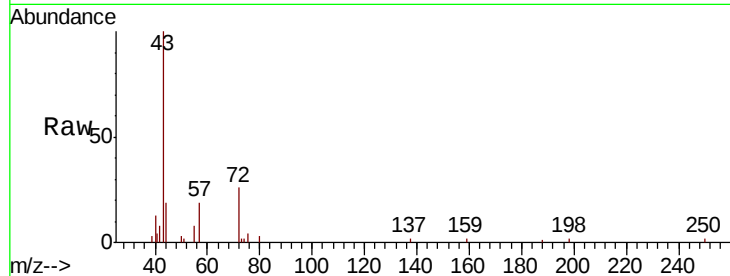
Ion 88.10 (87.80 to 88.80): VL0





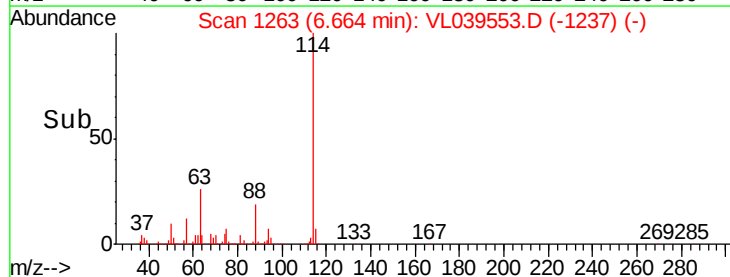
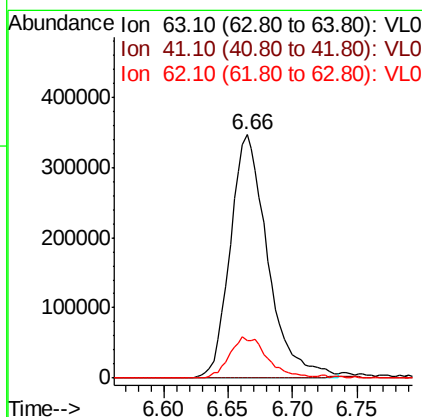
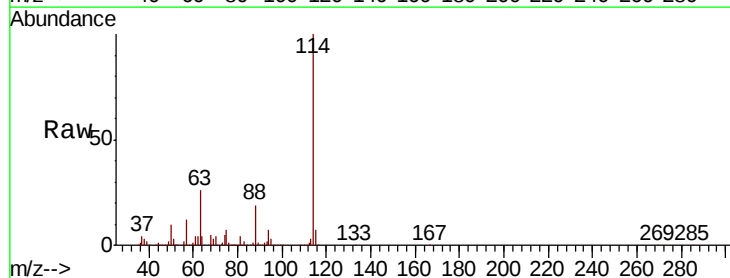
#34
 2-Butanone
 Concen: 0.044 ppbv
 RT: 4.82
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 17 Aug 2022 18:16

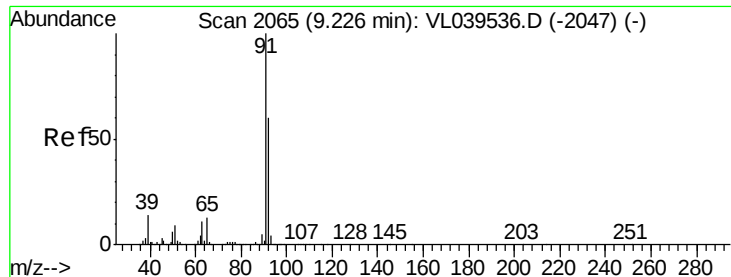
Tot Ion: 43 Resp: 6163
 Ion Ratio Lower Upper
 43 100
 72 86.6 17.4 26.0#



#39
 1,2-Dichloropropane
 Concen: 8.738 ppbv
 RT: 6.66 min Scan# 1263
 Delta R.T. -0.42 min
 Lab File: VL039553.D
 Acq: 17 Aug 2022 18:16

Tgt Ion: 63 Resp: 701014
 Ion Ratio Lower Upper
 63 100
 41 0.0 58.0 87.0#
 62 15.1 57.8 86.8#





#53

Toluene

Concen: 0.096 ppbv

RT: 9.23 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

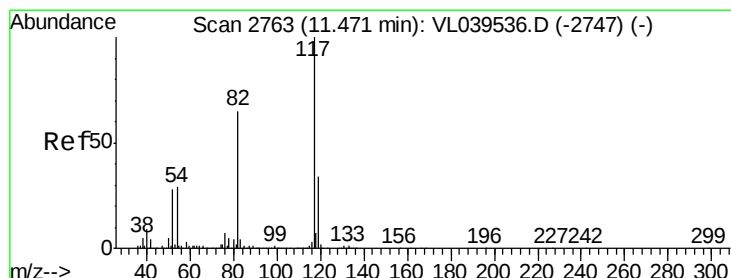
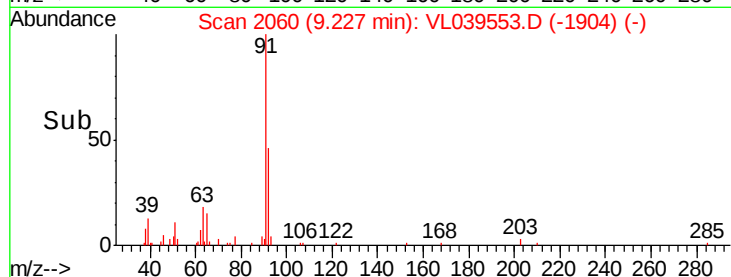
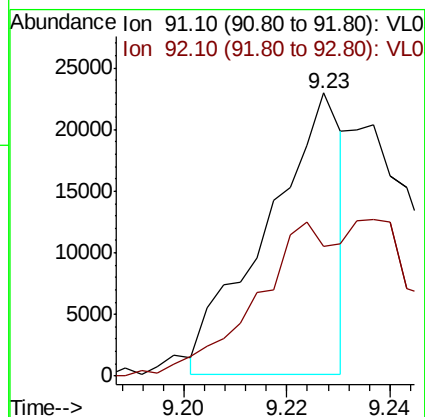
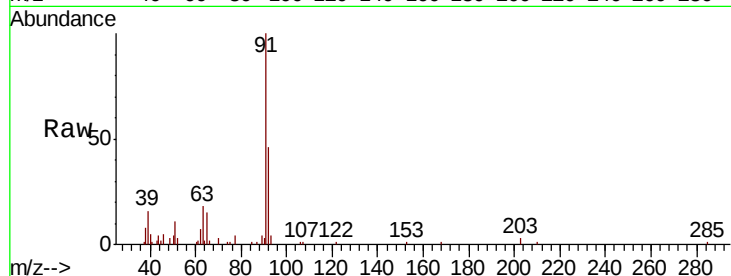
Acq: 17 Aug 2022 18:16

Tot Ion: 91 Resp: 23120

Ion Ratio Lower Upper

91 100

92 0.0 47.9 71.9#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 11.47 min Scan# 2759

Delta R.T. 0.00 min

Lab File: VL039553.D

Acq: 17 Aug 2022 18:16

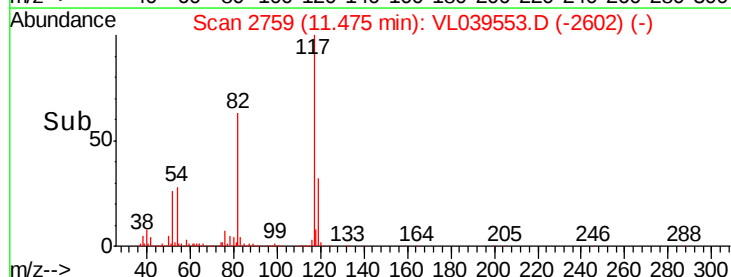
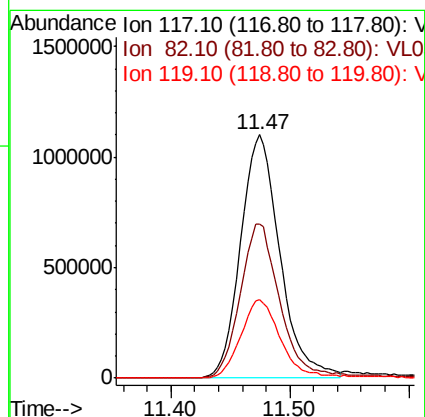
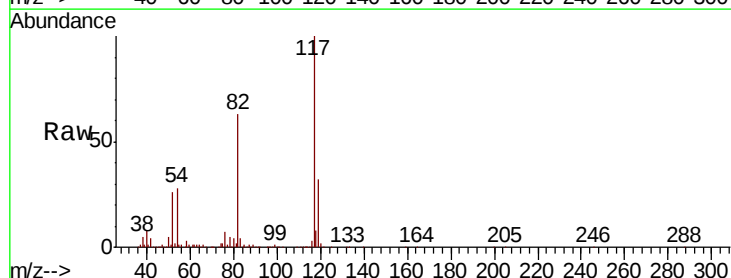
Tgt Ion: 117 Resp: 2522951

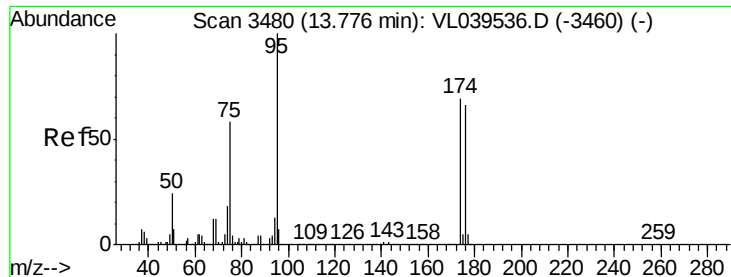
Ion Ratio Lower Upper

117 100

82 65.6 49.1 73.7

119 33.6 25.9 38.9





#68

1-Bromo-4-Fluorobenzene

Concen: 9.939 ppbv

RT: 13.78 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 17 Aug 2022 18:18

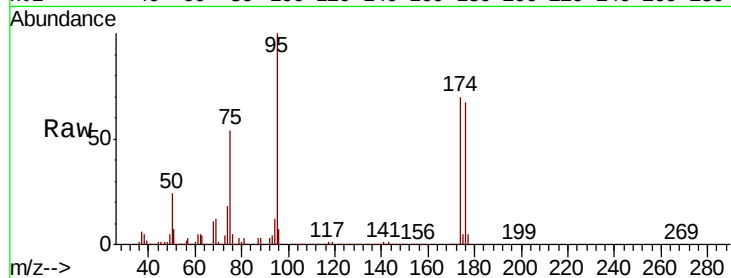
Tot Ion: 95 Resp: 1887709

Ion Ratio Lower Upper

95 100

174 74.3 56.3 84.5

175 5.4 4.3 6.5



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

