

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062422\
 Data File : VL039349.D
 Acq On : 24 Jun 2022 20:24
 Operator : SY/AP
 Sample : N3453-05DL 10X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DL

Quant Time: Jun 27 01:51:21 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1125146	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3181257	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	2876410	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.41	95	2027634	8.53	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	85.30%	

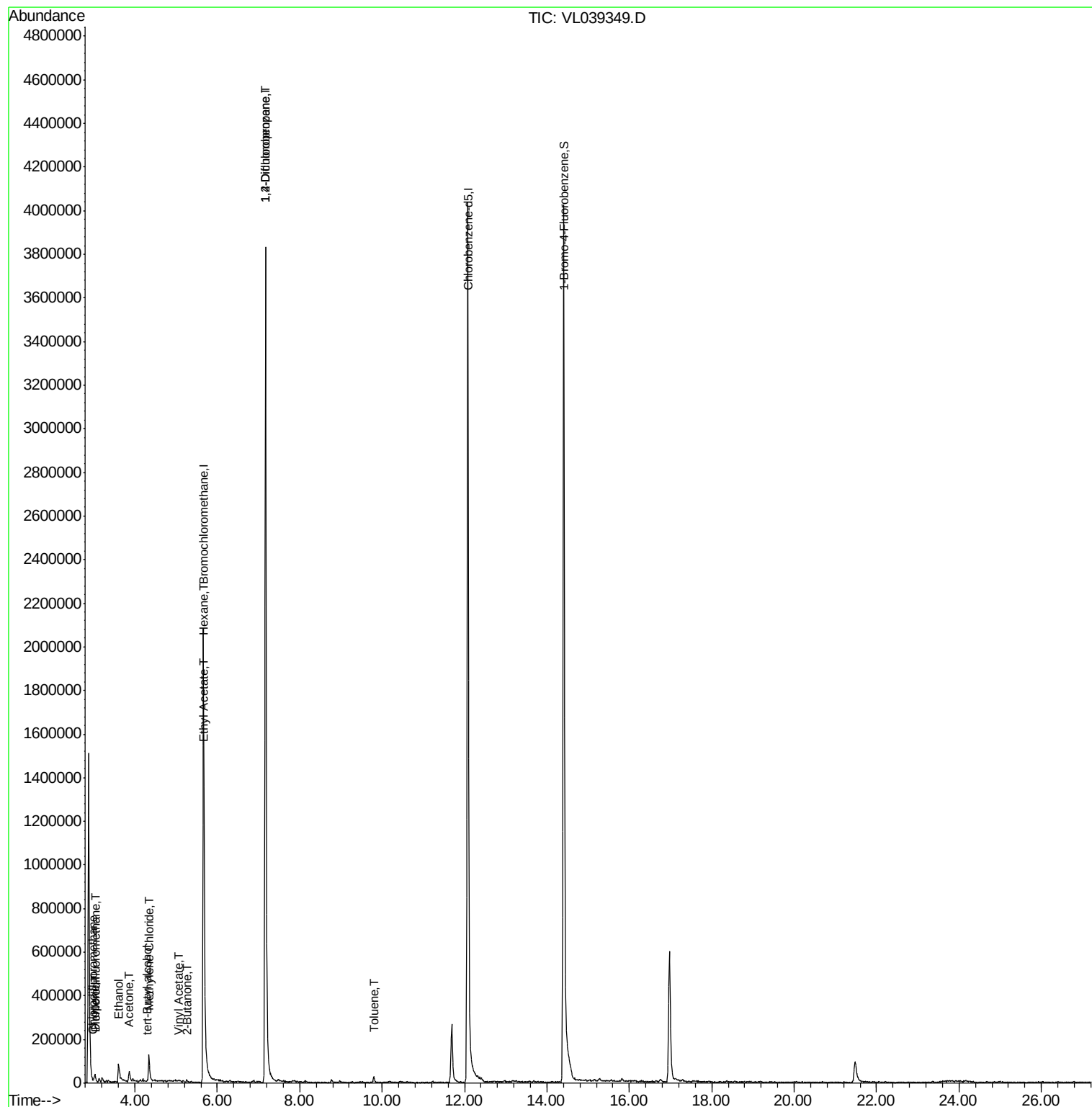
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	10261	0.052	ppbv	99
3) Chlorodifluoromethane	2.99	51	7756	0.054	ppbv	95
9) Propene	3.01	41	5470	0.088	ppbv #	48
13) Ethanol	3.61	45	105404	30.962	ppbv #	100
15) Acetone	3.85	43	63646	0.543	ppbv	98
17) tert-Butyl alcohol	4.30	59	3022	0.033	ppbv	97
20) Methylene Chloride	4.34	84	51030	1.033	ppbv	97
23) Vinyl Acetate	5.06	43	4122	0.043	ppbv #	60
25) Ethyl Acetate	5.69	43	25473	0.096	ppbv #	83
26) Hexane	5.68	57	18731	0.161	ppbv #	1
34) 2-Butanone	5.25	43	5211	0.030	ppbv #	1
39) 1,2-Dichloropropane	7.17	63	779854	7.591	ppbv #	25
53) Toluene	9.80	91	13876	0.047	ppbv #	66

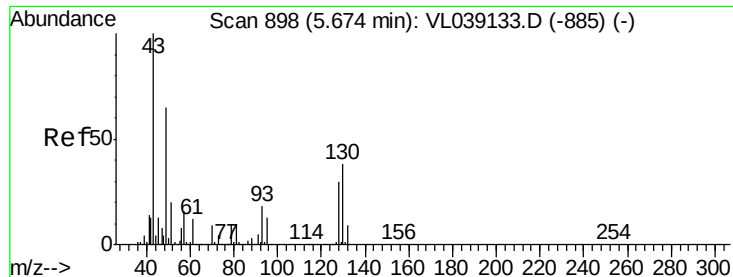
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062422\
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Quant Time: Jun 27 01:51:21 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
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QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 24 Jun 2022 20:24

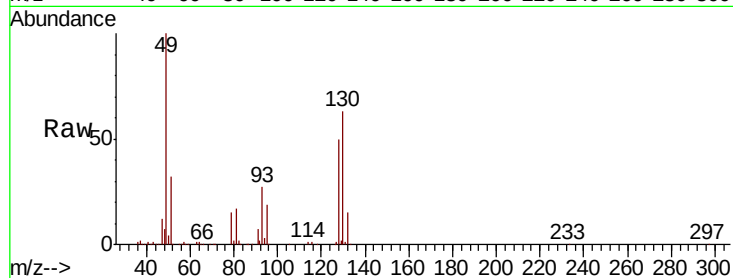
Tot Ion: 49 Resp: 1125146

Ion Ratio Lower Upper

49 100

128 54.7 24.7 74.1

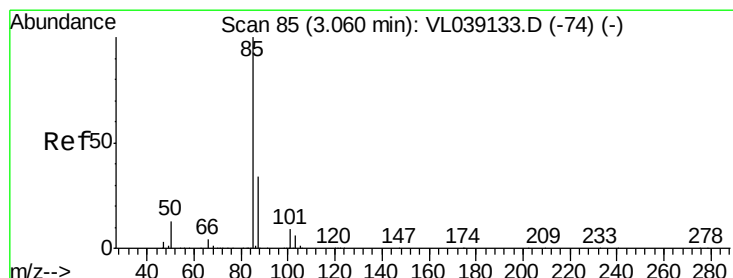
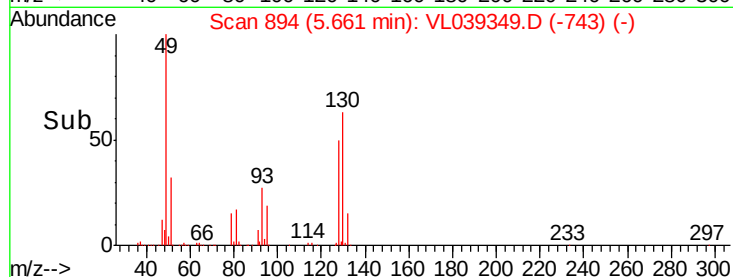
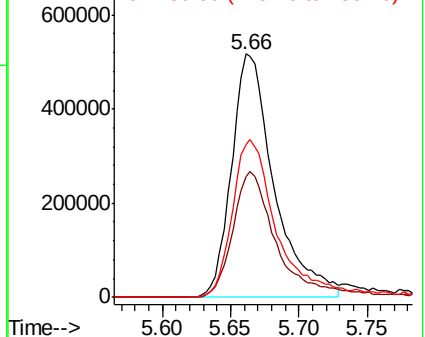
130 71.8 31.4 94.0



Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.052 ppbv

RT: 3.05 min Scan# 81

Delta R.T. -0.01 min

Lab File: VL039349.D

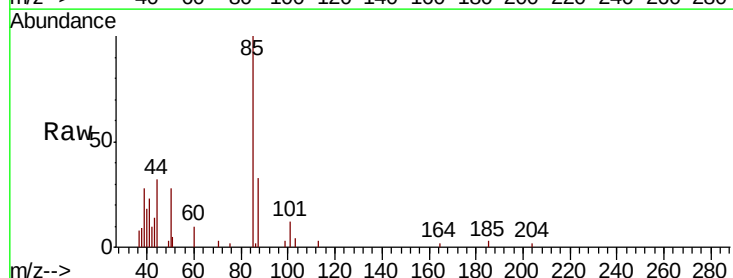
Acq: 24 Jun 2022 20:24

Tgt Ion: 85 Resp: 10261

Ion Ratio Lower Upper

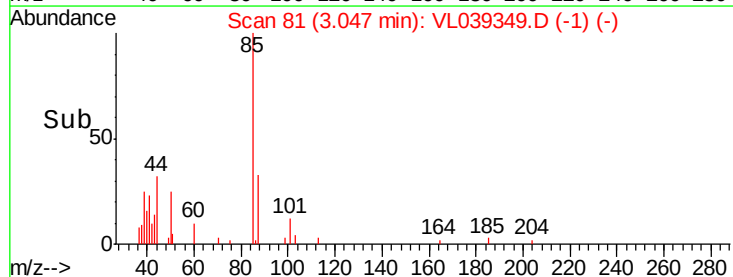
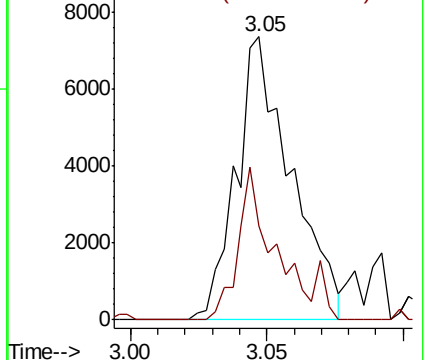
85 100

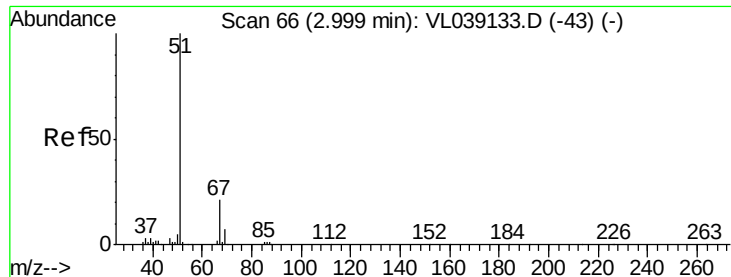
87 33.1 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.054 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

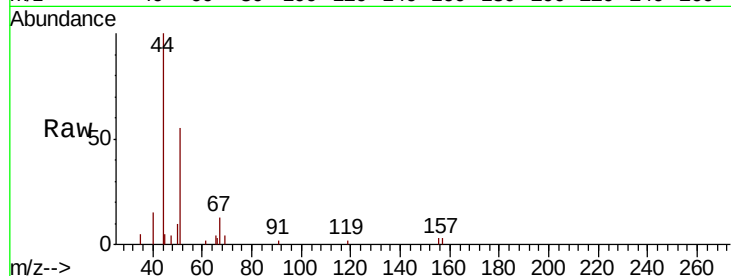
Acq: 24 Jun 2022 20:24

Tot Ion: 51 Resp: 7756

Ion Ratio Lower Upper

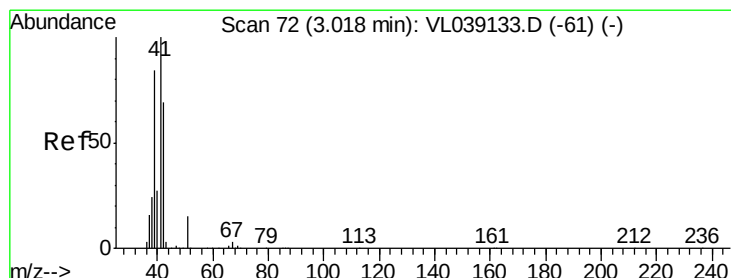
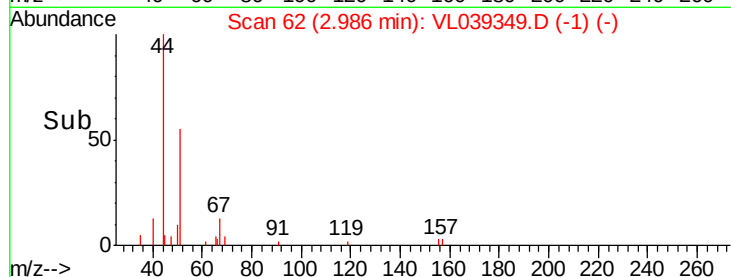
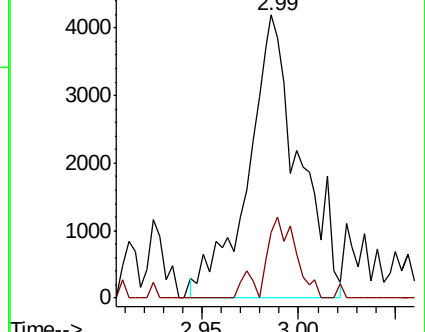
51 100

67 17.9 16.2 24.4



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#9

Propene

Concen: 0.088 ppbv

RT: 3.01 min Scan# 71

Delta R.T. -0.00 min

Lab File: VL039349.D

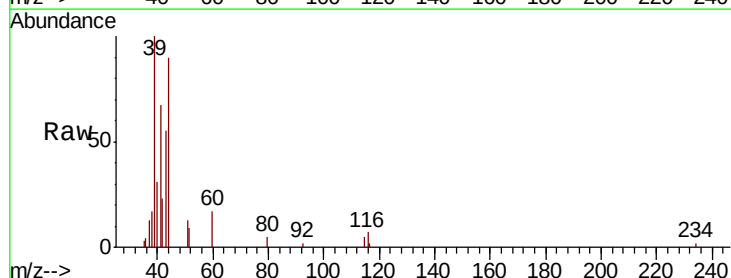
Acq: 24 Jun 2022 20:24

Tgt Ion: 41 Resp: 5470

Ion Ratio Lower Upper

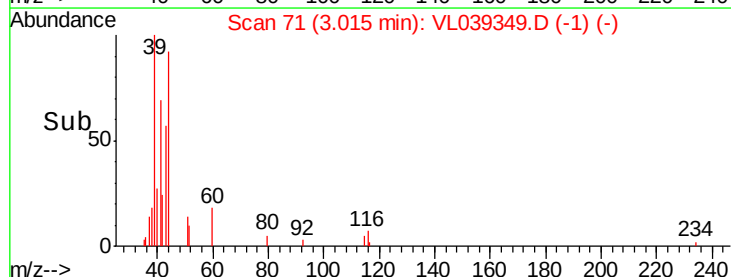
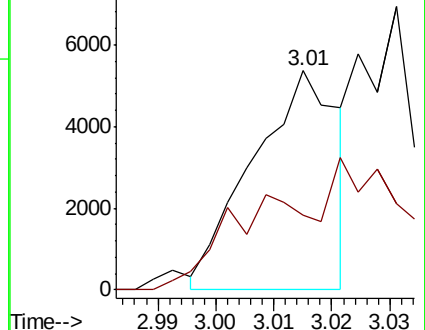
41 100

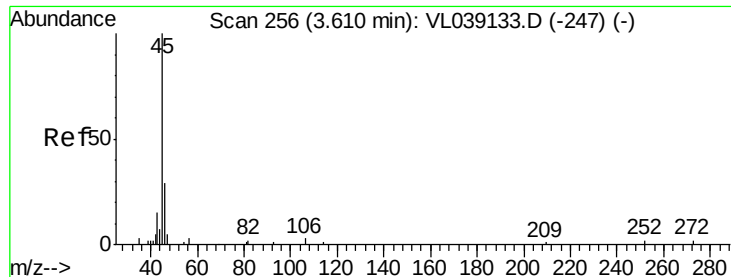
42 111.5 55.4 83.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#13

Ethanol

Concen: 30.962 ppbv

RT: 3.61 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

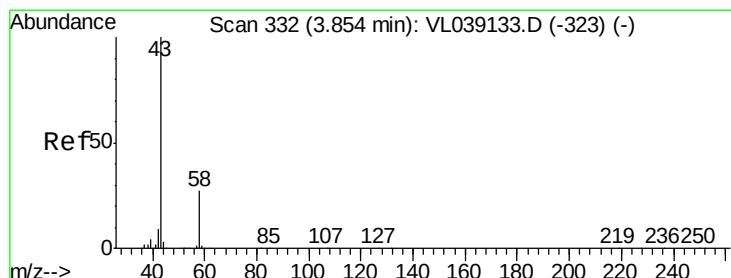
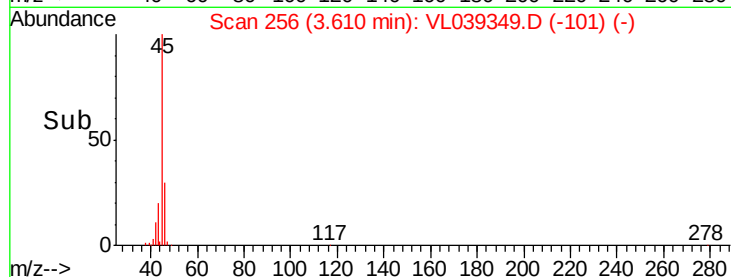
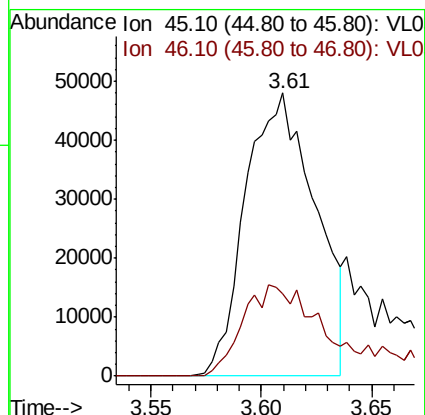
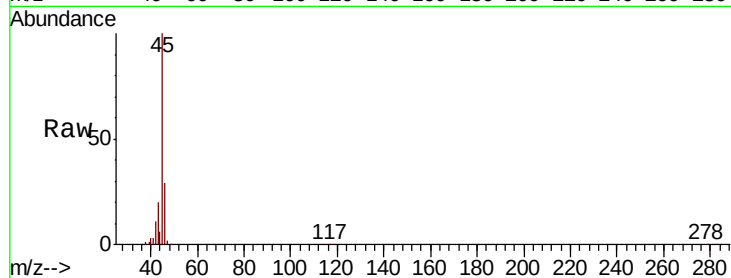
Acq: 24 Jun 2022 20:24

Tot Ion: 45 Resp: 105404

Ion Ratio Lower Upper

45 100

46 40.7 0.0 0.0#



#15

Acetone

Concen: 0.543 ppbv

RT: 3.85 min Scan# 332

Delta R.T. -0.00 min

Lab File: VL039349.D

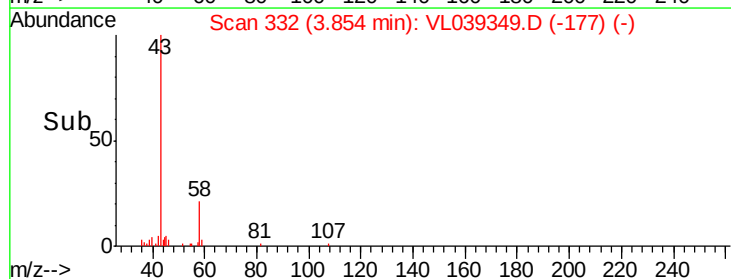
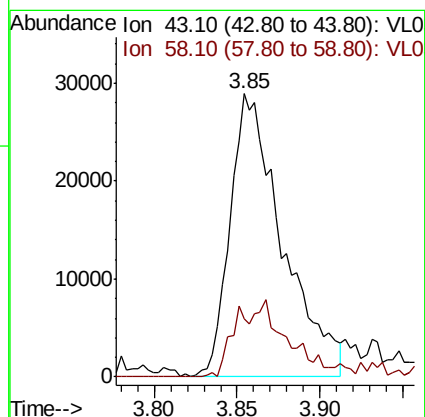
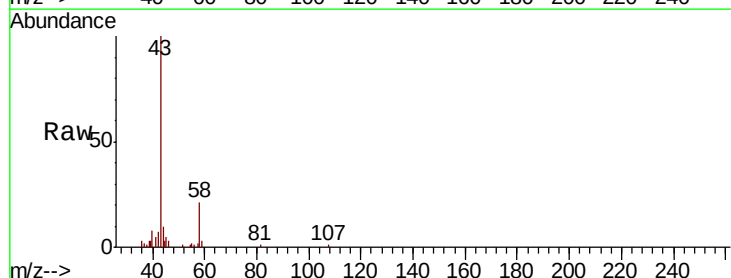
Acq: 24 Jun 2022 20:24

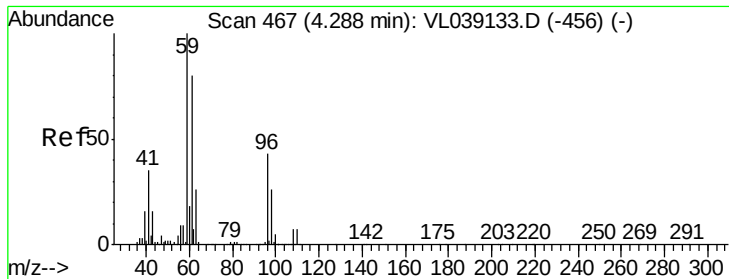
Tgt Ion: 43 Resp: 63646

Ion Ratio Lower Upper

43 100

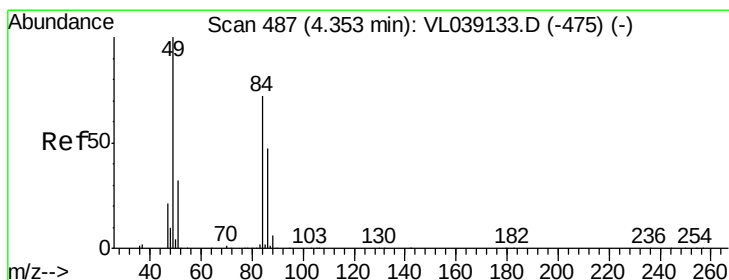
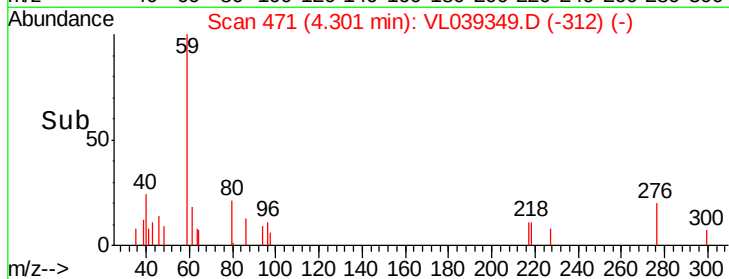
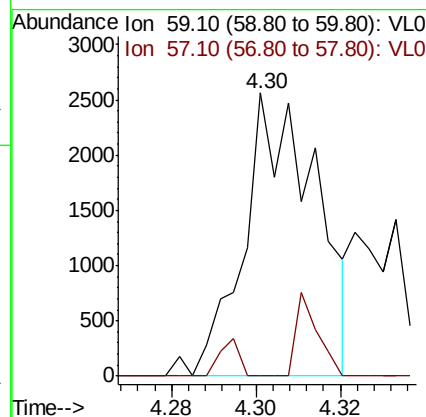
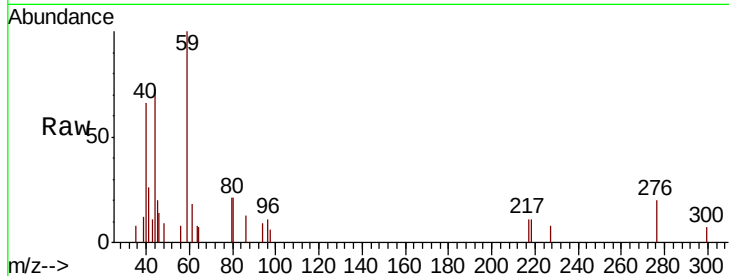
58 26.9 22.5 33.7





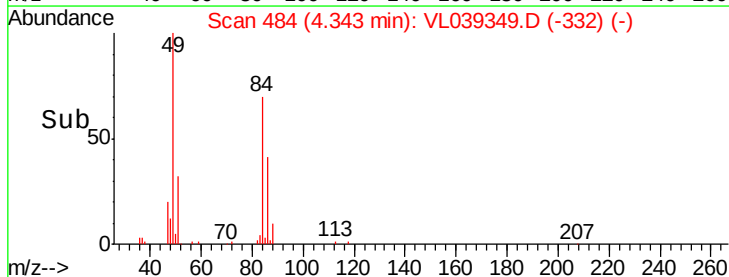
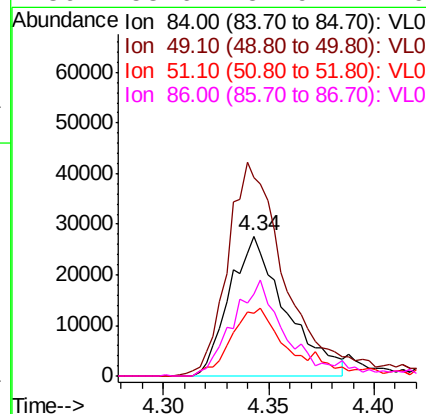
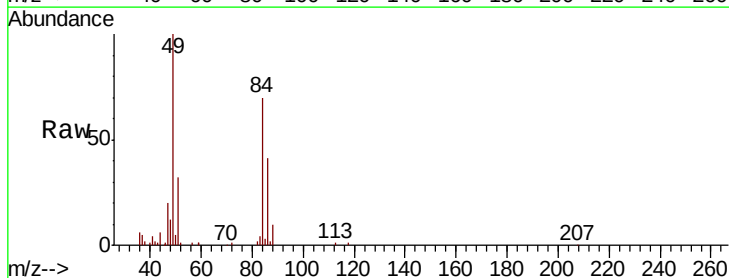
#17
tert-Butyl alcohol
Concen: 0.033 ppbv
RT: 4.30
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jun 2022 20:24

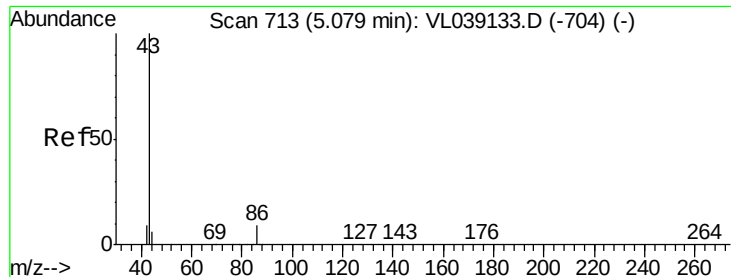
Tot Ion: 59 Resp: 3022
Ion Ratio Lower Upper
59 100
57 12.5 9.1 13.7



#20
Methylene Chloride
Concen: 1.033 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL039349.D
Acq: 24 Jun 2022 20:24

Tgt Ion: 84 Resp: 51030
Ion Ratio Lower Upper
84 100
49 138.4 111.1 166.7
51 45.0 35.3 52.9
86 58.6 51.9 77.9





#23

Vinyl Acetate

Concen: 0.043 ppbv

RT: 5.06 Instrument:

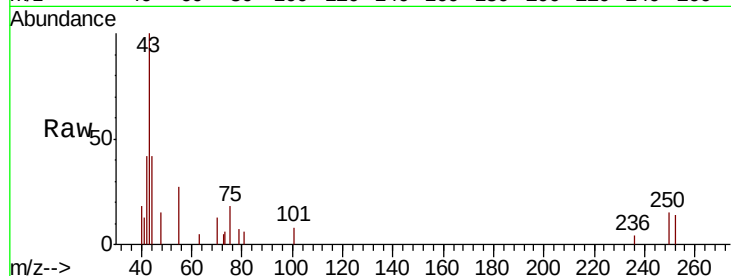
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

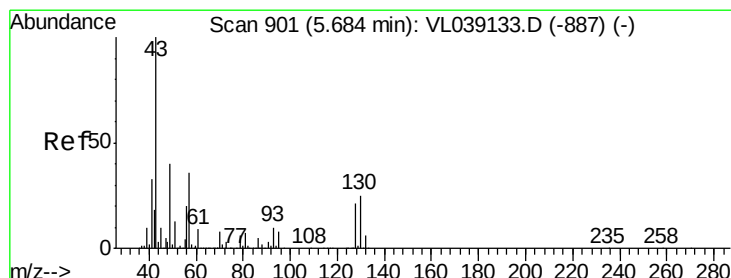
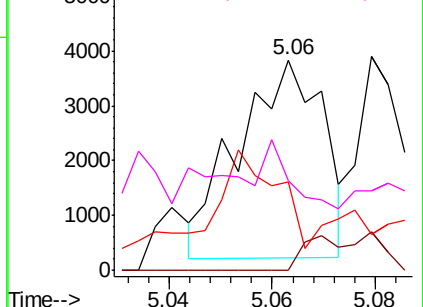
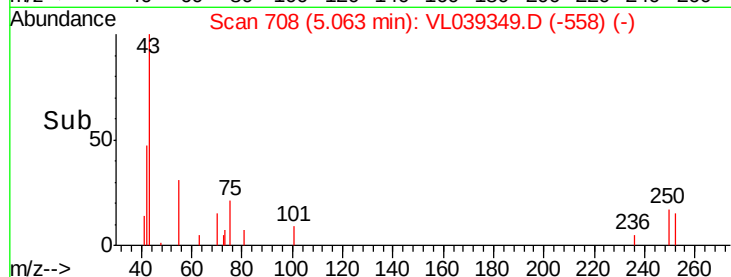
Acq: 24 Jun 2022 20:24

Tot Ion: 43 Resp: 4122

Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.0	9.0#
42	31.3	8.2	12.4#
44	16.9	4.3	6.5#



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



#25

Ethyl Acetate

Concen: 0.096 ppbv

RT: 5.69 min Scan# 902

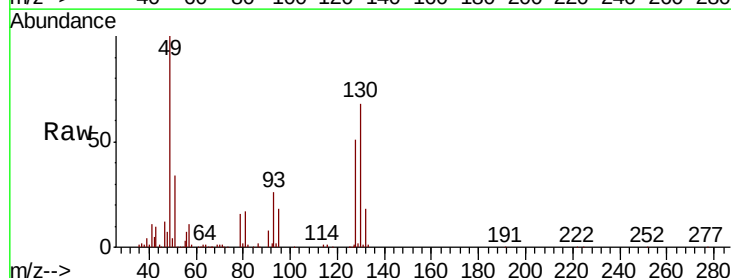
Delta R.T. 0.00 min

Lab File: VL039349.D

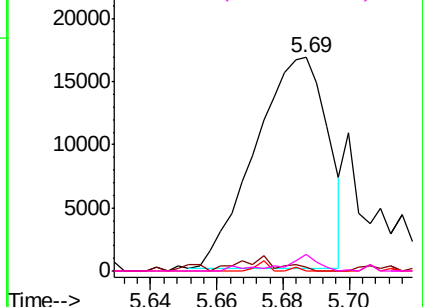
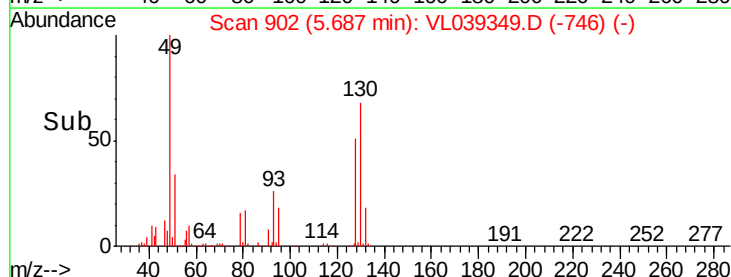
Acq: 24 Jun 2022 20:24

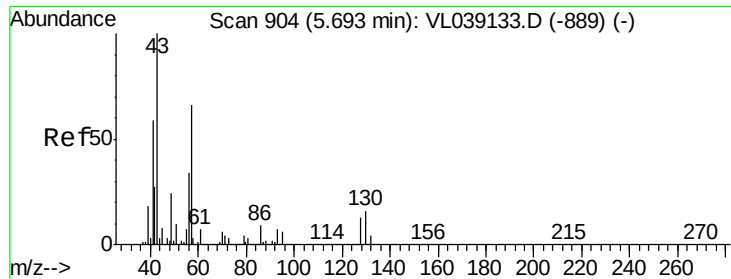
Tgt Ion: 43 Resp: 25473

Ion	Ratio	Lower	Upper
43	100		
45	4.7	8.2	12.2#
61	1.0	8.4	12.6#
70	4.3	5.6	8.4#



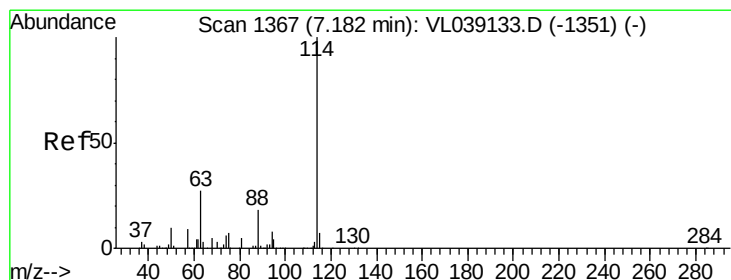
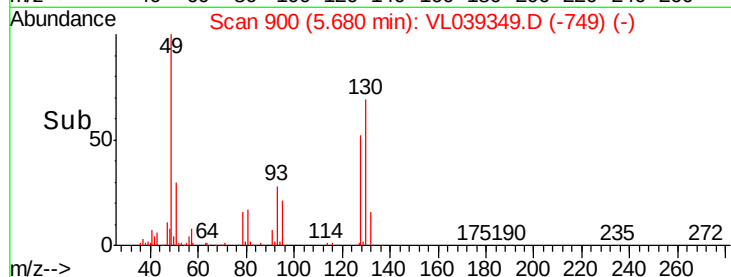
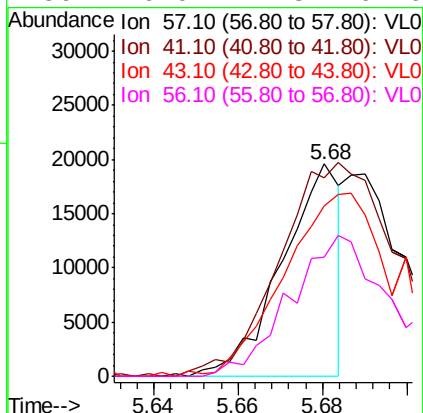
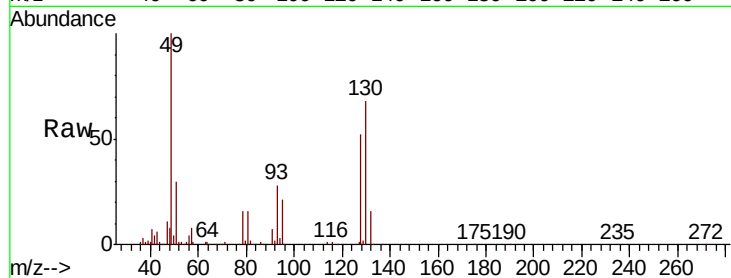
Abundance Ion 43.10 (42.80 to 43.80): VL0
Ion 45.10 (44.80 to 45.80): VL0
Ion 61.10 (60.80 to 61.80): VL0
Ion 70.10 (69.80 to 70.80): VL0





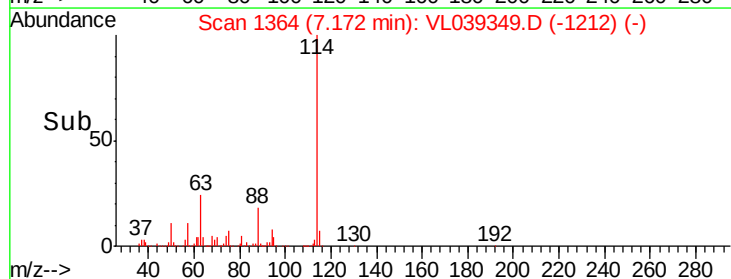
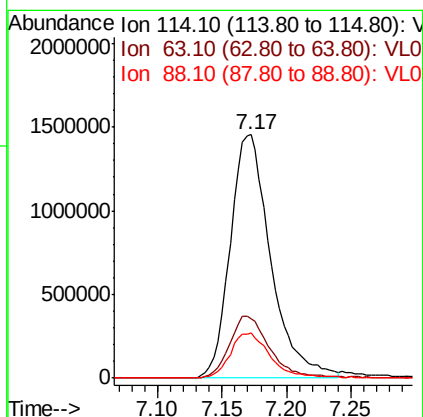
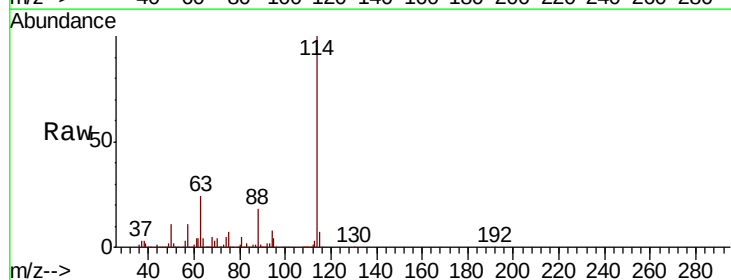
#26
Hexane
Concen: 0.161 ppbv
RT: 5.68
Instrument: MSVOA_L
Delta R.T.:
Lab File: ClientSampleId:
Acq: 24 Jun 2022 20:24

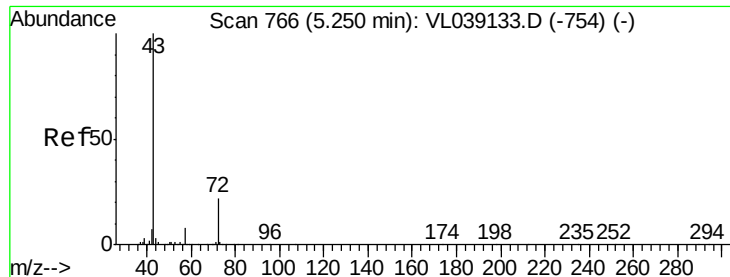
Tot Ion:	57	Resp:	18731
Ion	Ratio	Lower	Upper
57	100		
41	0.0	72.4	108.6#
43	0.0	187.0	280.6#
56	0.0	41.8	62.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1364
Delta R.T.: -0.01 min
Lab File: VL039349.D
Acq: 24 Jun 2022 20:24

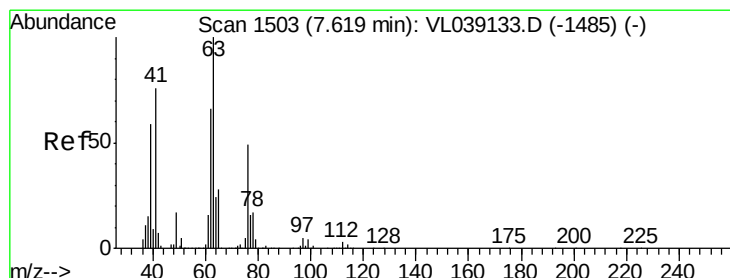
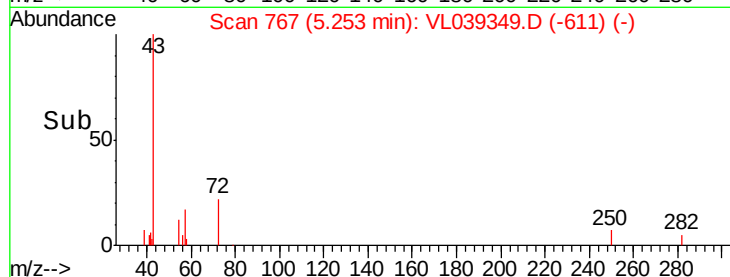
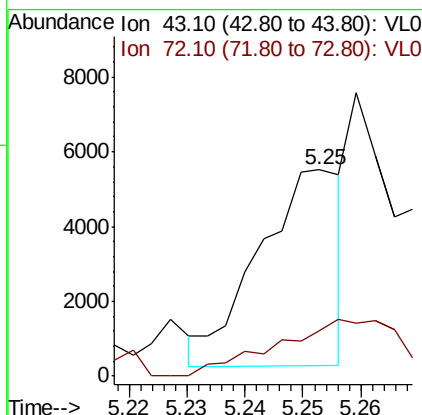
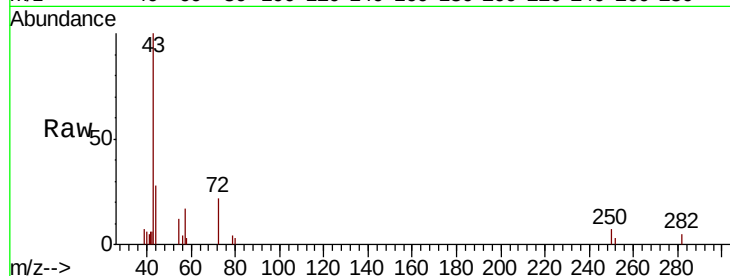
Tgt Ion:	114	Resp:	3181257
Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.7	32.5
88	18.7	14.8	22.2





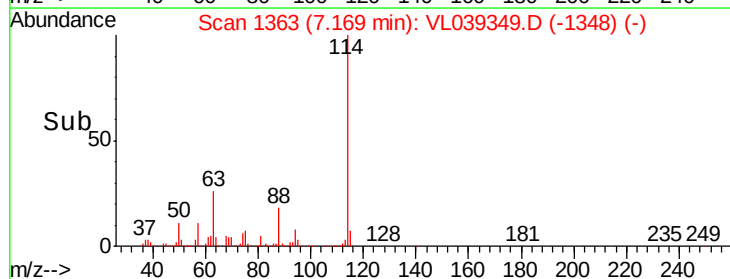
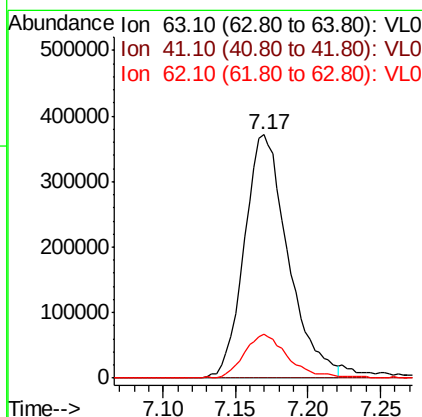
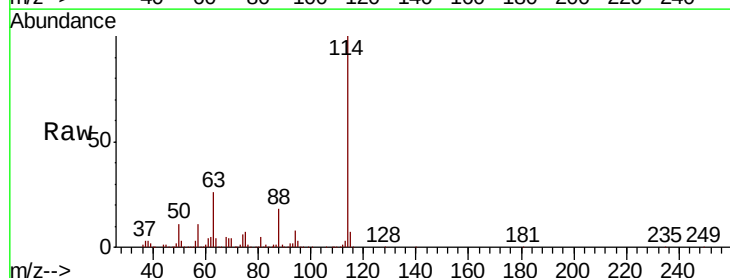
#34
 2-Butanone
 Concen: 0.030 ppbv
 RT: 5.25
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jun 2022 20:24

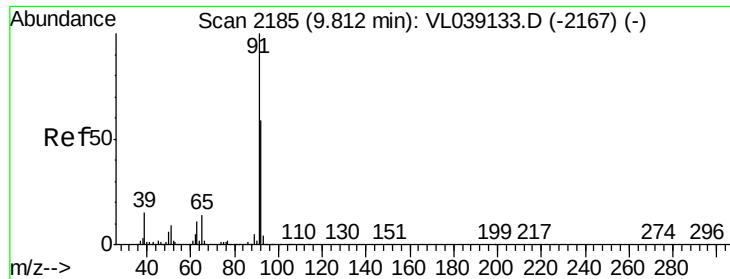
Tot Ion: 43 Resp: 5211
 Ion Ratio Lower Upper
 43 100
 72 81.4 18.2 27.2#



#39
 1,2-Dichloropropane
 Concen: 7.591 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL039349.D
 Acq: 24 Jun 2022 20:24

Tgt Ion: 63 Resp: 779854
 Ion Ratio Lower Upper
 63 100
 41 0.0 60.8 91.2#
 62 18.3 52.9 79.3#





#53

Toluene

Concen: 0.047 ppbv

RT: 9.80 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

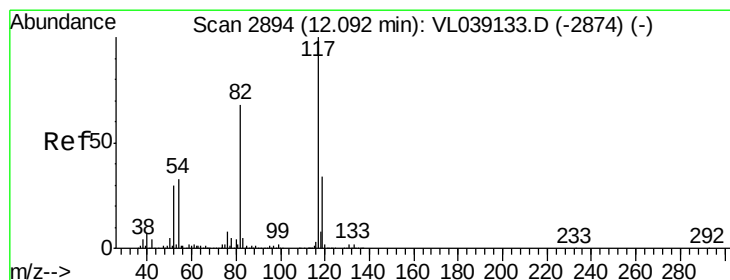
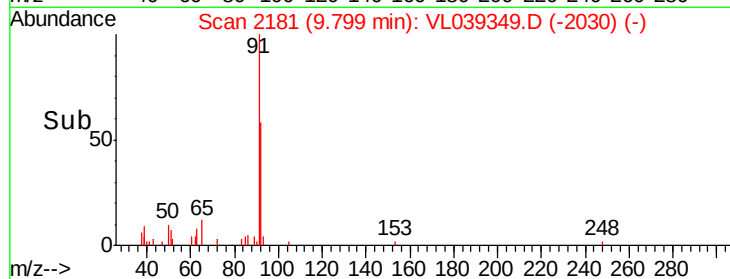
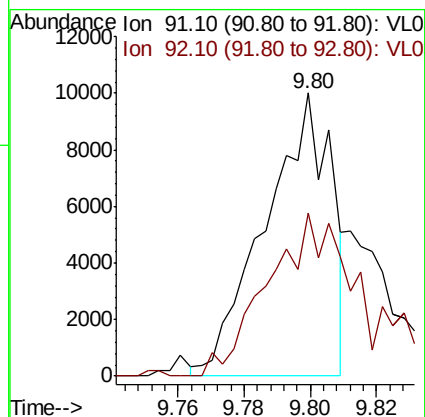
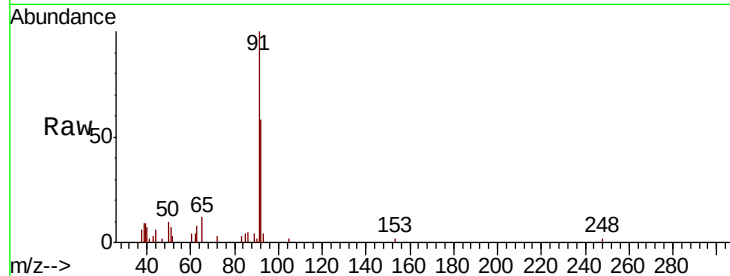
Acq: 24 Jun 2022 20:24

Tot Ion: 91 Resp: 13876

Ion Ratio Lower Upper

91 100

92 85.6 48.1 72.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.08 min Scan# 2890

Delta R.T. -0.01 min

Lab File: VL039349.D

Acq: 24 Jun 2022 20:24

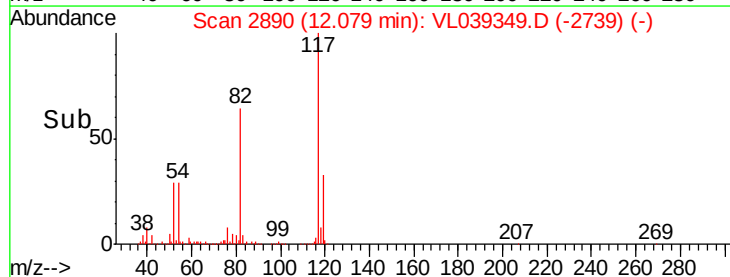
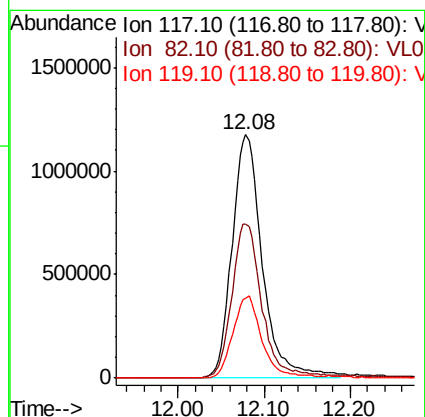
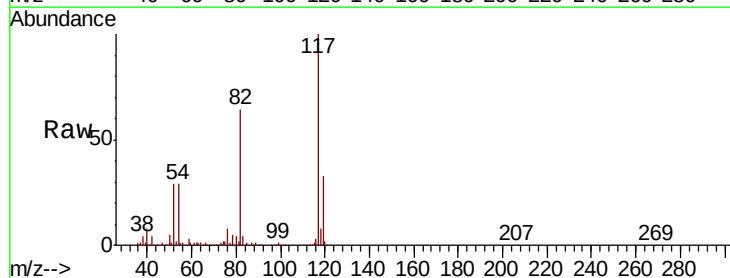
Tgt Ion: 117 Resp: 2876410

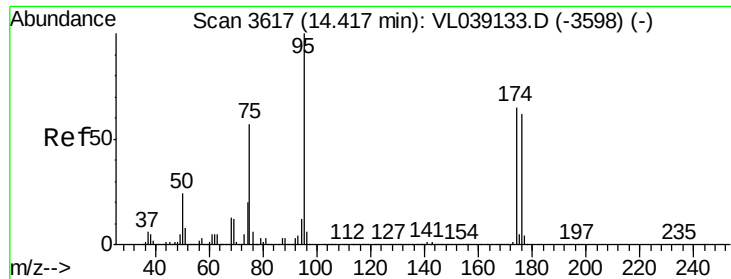
Ion Ratio Lower Upper

117 100

82 64.3 55.1 82.7

119 33.6 24.7 37.1





#68

1-Bromo-4-Fluorobenzene

Concen: 8.527 ppbv

RT: 14.41

Delta R.T: MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Jun 2022 20.24

Tot Ion: 95 Resp: 2027634

Ion Ratio Lower Upper

95 100

174 74.5 53.8 80.8

175 5.3 4.1 6.1

