

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060322\
 Data File : VL039164.D
 Acq On : 3 Jun 2022 22:32
 Operator : SY/AP
 Sample : N3106-08DL 4X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA4DL

Quant Time: Jun 04 00:17:54 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	5.68	49	1088644	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	2602304	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	2183766	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.42	95	1818305	10.07	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.70%

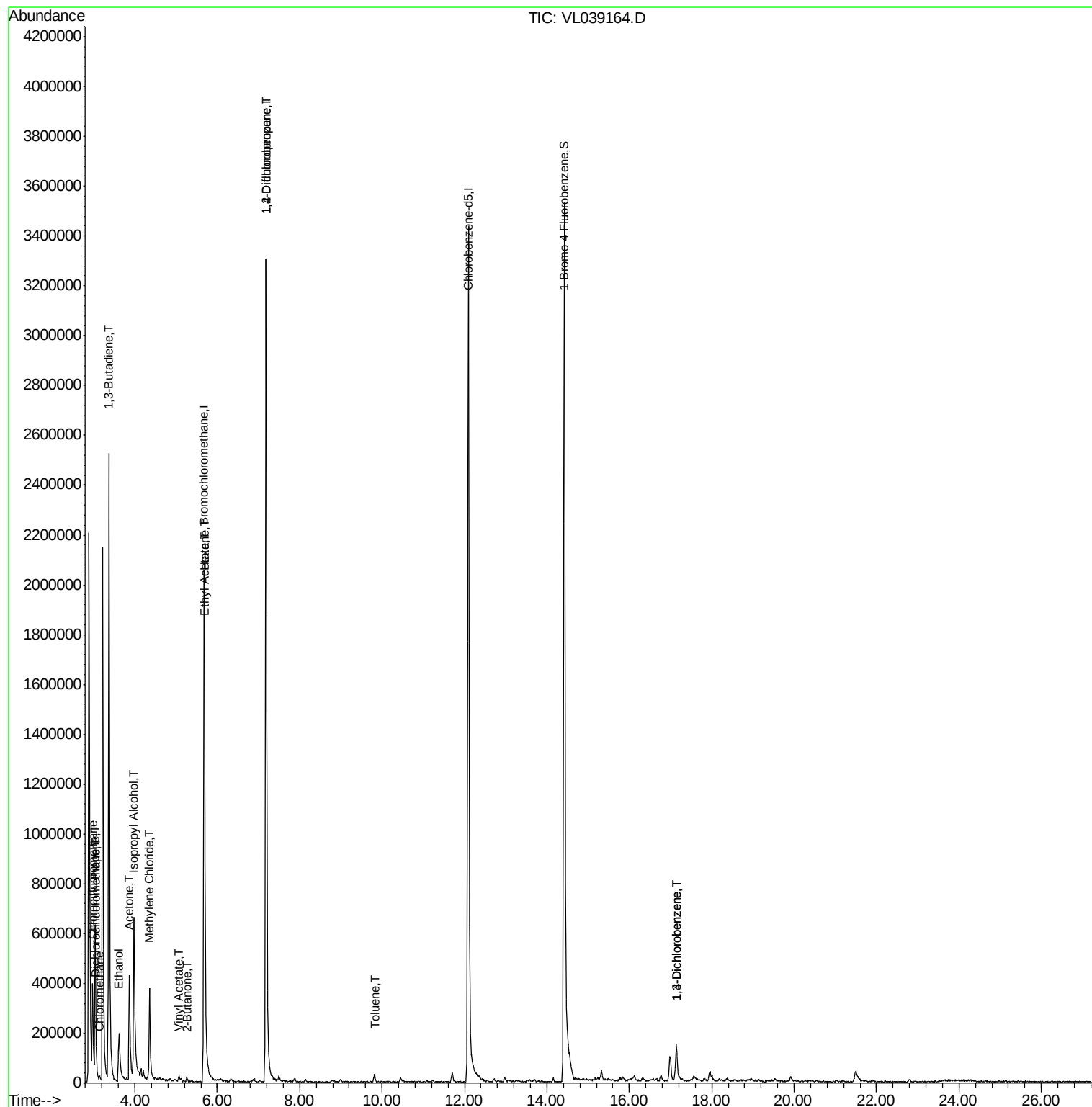
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	19465	0.102	ppbv	93
3) Chlorodifluoromethane	2.98	51	294275	2.124	ppbv #	59
4) Chloromethane	3.15	50	7997	0.112	ppbv #	72
9) Propene	3.04	41	81022	1.341	ppbv	99
13) Ethanol	3.62	45	300916	91.356	ppbv #	100
15) Acetone	3.86	43	520273	4.588	ppbv	99
16) 1,3-Butadiene	3.37	39	404061	6.628	ppbv #	10
19) Isopropyl Alcohol	3.97	45	902185	16.962	ppbv #	98
20) Methylene Chloride	4.36	84	142139	2.974	ppbv	97
23) Vinyl Acetate	5.08	43	3795	0.040	ppbv #	59
25) Ethyl Acetate	5.70	43	95757	0.375	ppbv #	82
26) Hexane	5.69	57	117404	1.045	ppbv #	42
34) 2-Butanone	5.26	43	18000	0.127	ppbv #	73
39) 1,2-Dichloropropane	7.19	63	694205	8.261	ppbv #	25
53) Toluene	9.82	91	16670	0.069	ppbv #	67
75) 1,3-Dichlorobenzene	17.15	146	62027	0.373	ppbv	89
76) 1,4-Dichlorobenzene	17.15	146	62027	0.374	ppbv	91

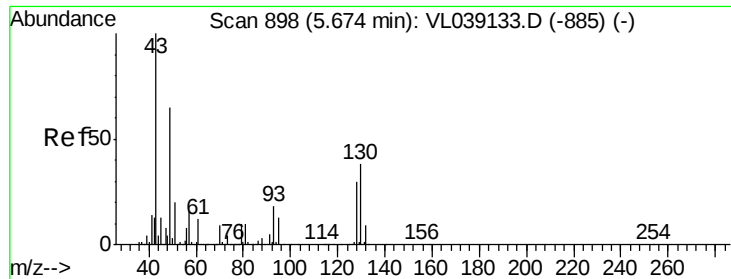
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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QLast Update : Wed Jun 01 01:22:18 2022
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA4DL

Acq: 3 Jun 2022 22:32

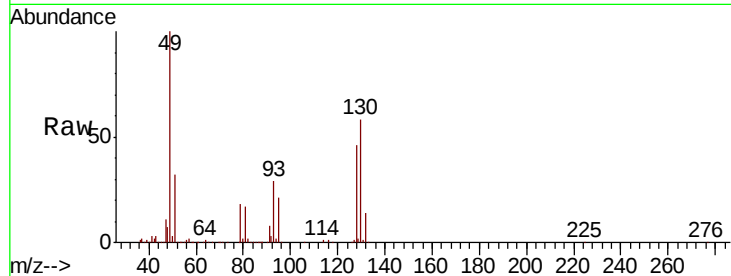
Tot Ion: 49 Resp: 1088644

Ion Ratio Lower Upper

49 100

128 47.5 24.7 74.1

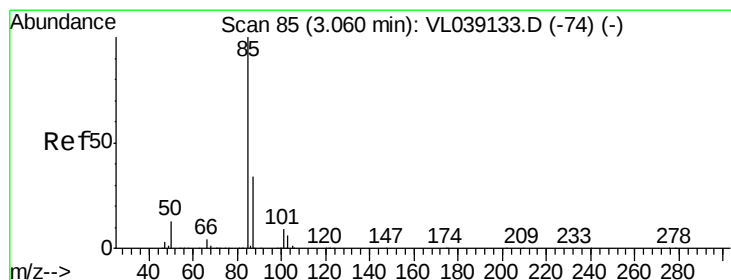
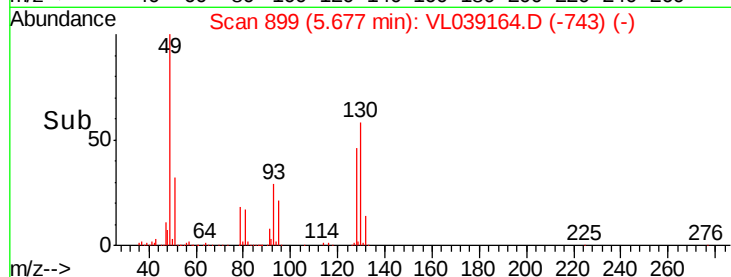
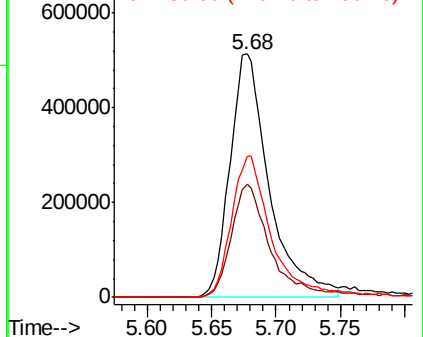
130 61.6 31.4 94.0



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: 0.102 ppbv

RT: 3.06 min Scan# 85

Delta R.T. -0.00 min

Lab File: VL039164.D

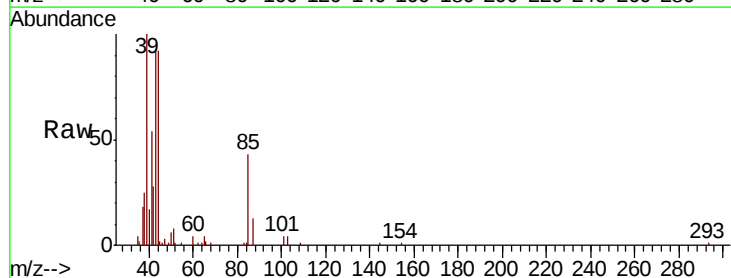
Acq: 3 Jun 2022 22:32

Tgt Ion: 85 Resp: 19465

Ion Ratio Lower Upper

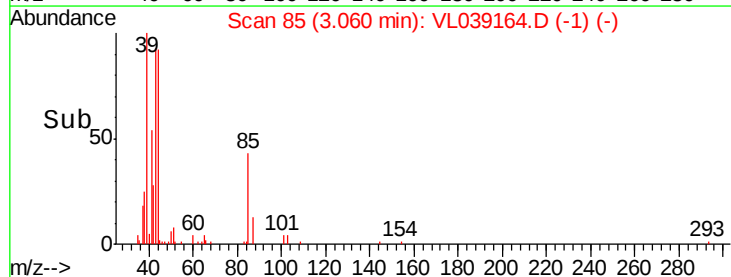
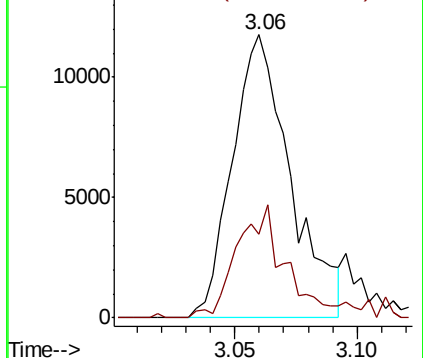
85 100

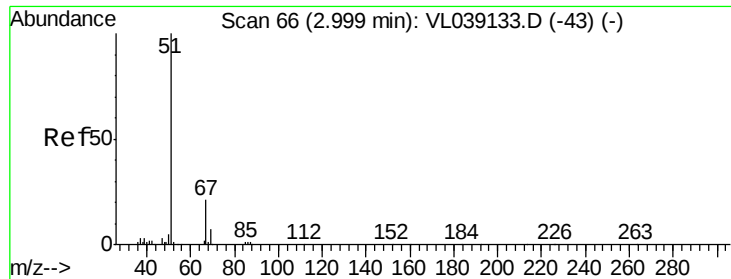
87 29.7 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

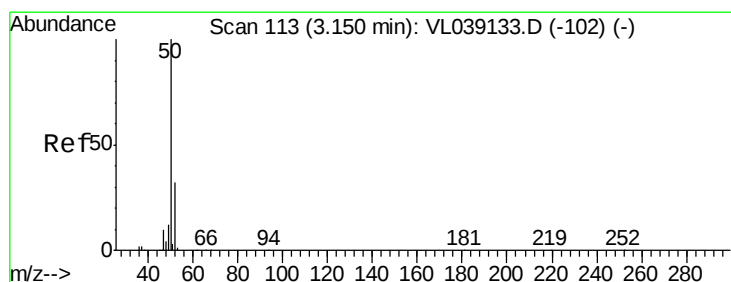
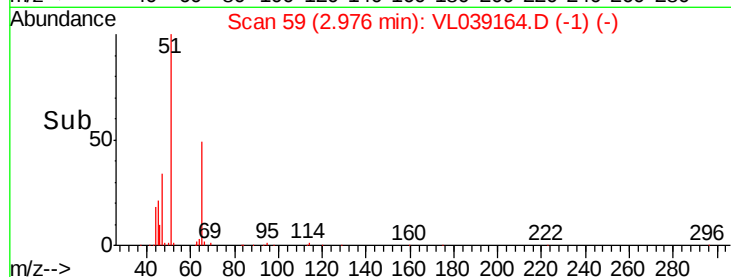
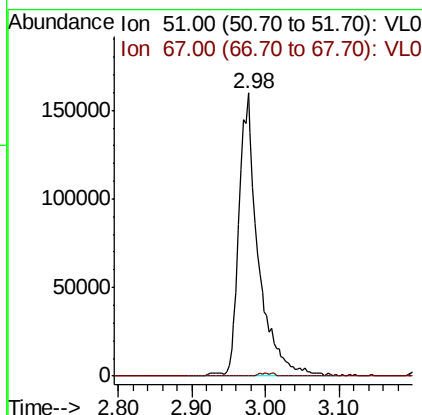
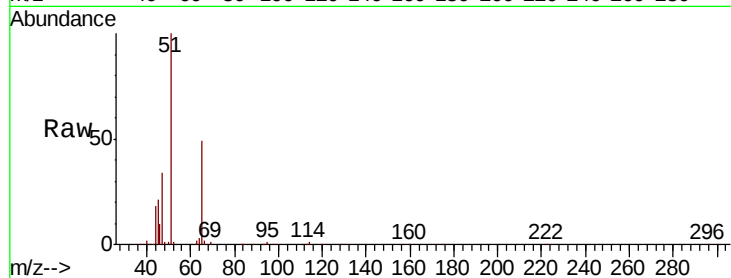
Ion 87.00 (86.70 to 87.70): VL0





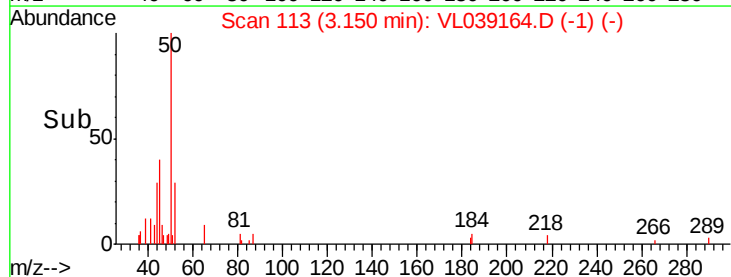
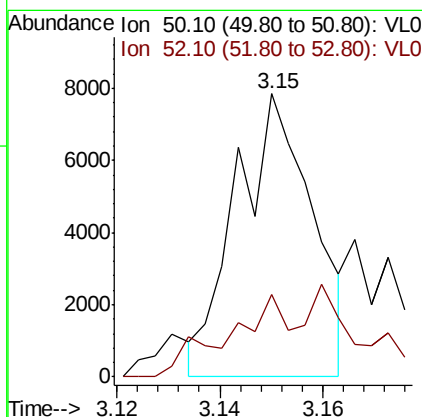
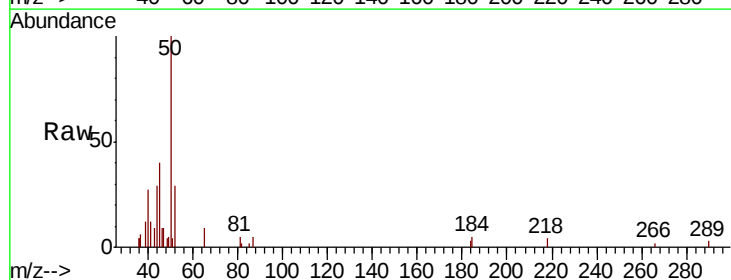
#3
 Chlorodifluoromethane
 Concen: 2.124 ppbv
 RT: 2.98
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 3 Jun 2022 22:32

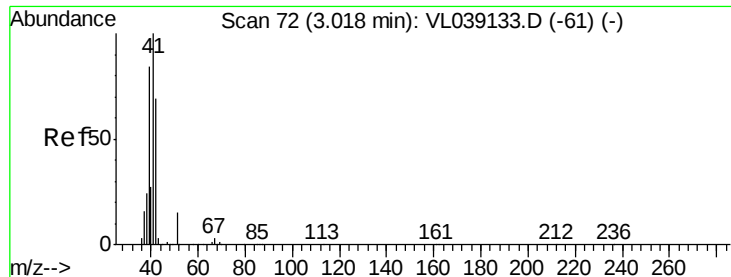
Tot Ion: 51 Resp: 294275
 Ion Ratio Lower Upper
 51 100
 67 1.2 16.2 24.4#



#4
 Chloromethane
 Concen: 0.112 ppbv
 RT: 3.15 min Scan# 113
 Delta R.T. -0.00 min
 Lab File: VL039164.D
 Acq: 3 Jun 2022 22:32

Tgt Ion: 50 Resp: 7997
 Ion Ratio Lower Upper
 50 100
 52 16.9 25.9 38.9#





#9

Propene

Concen: 1.341 ppbv

RT: 3.04 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

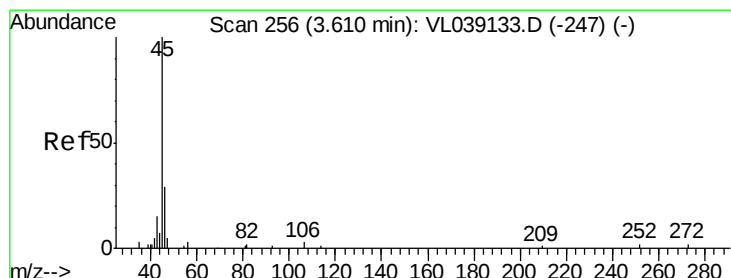
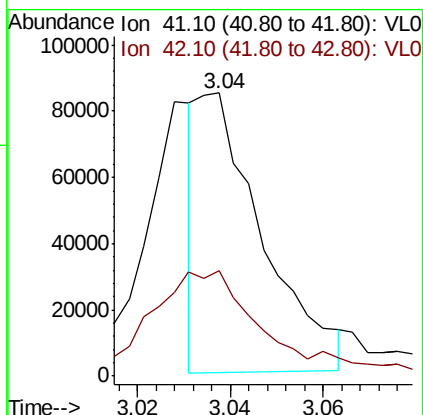
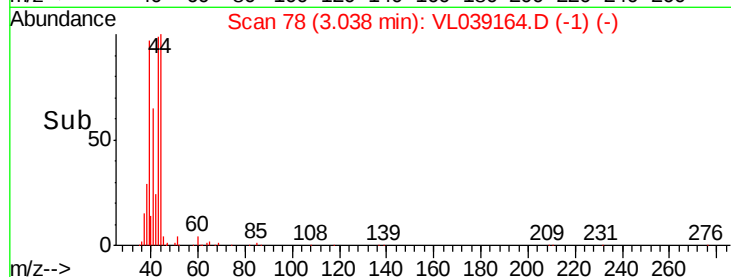
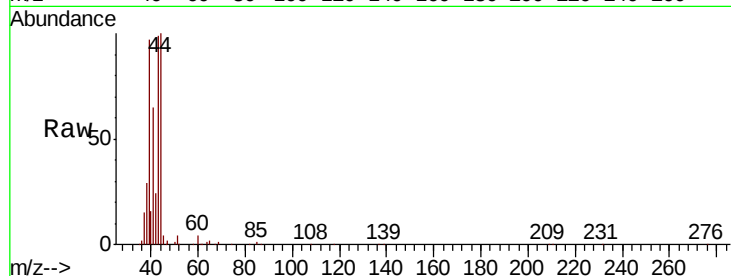
Acq: 3 Jun 2022 22:32

Tot Ion: 41 Resp: 81022

Ion Ratio Lower Upper

41 100

42 69.8 55.4 83.2



#13

Ethanol

Concen: 91.356 ppbv

RT: 3.62 min Scan# 258

Delta R.T. 0.01 min

Lab File: VL039164.D

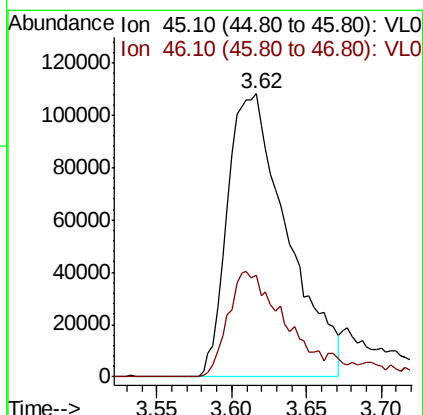
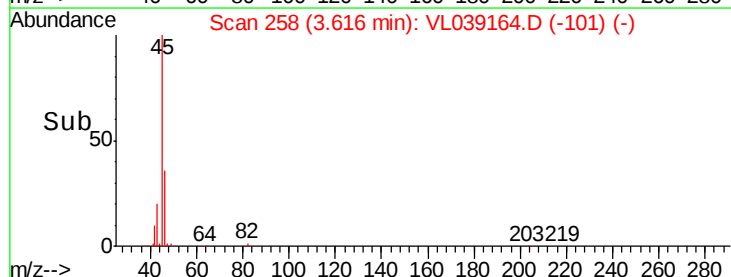
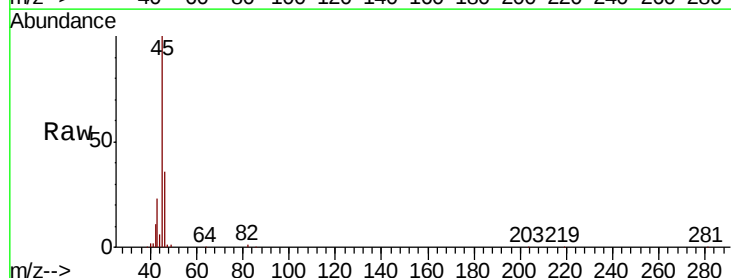
Acq: 3 Jun 2022 22:32

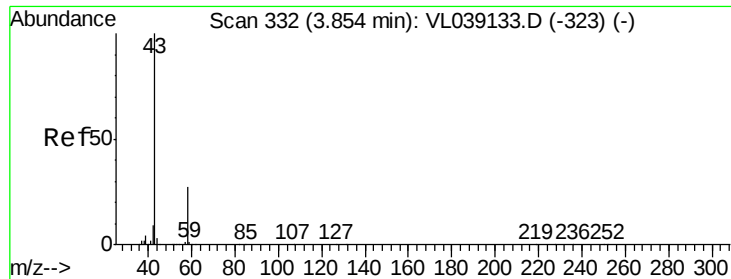
Tgt Ion: 45 Resp: 300916

Ion Ratio Lower Upper

45 100

46 41.8 0.0 0.0#





#15

Acetone

Concen: 4.588 ppbv

RT: 3.86 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

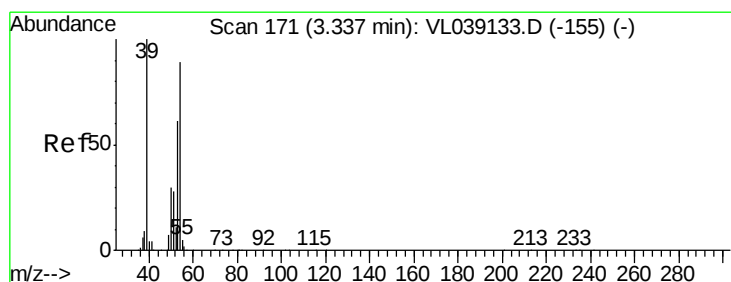
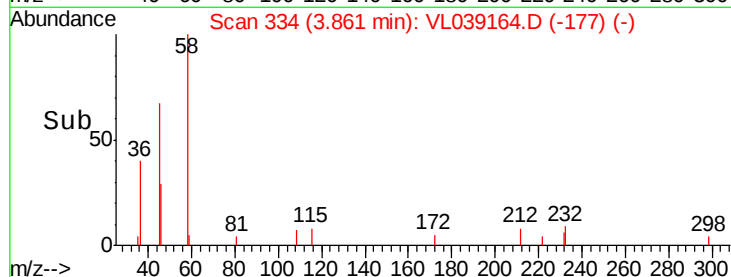
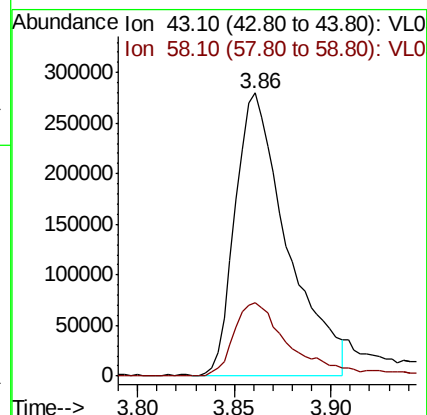
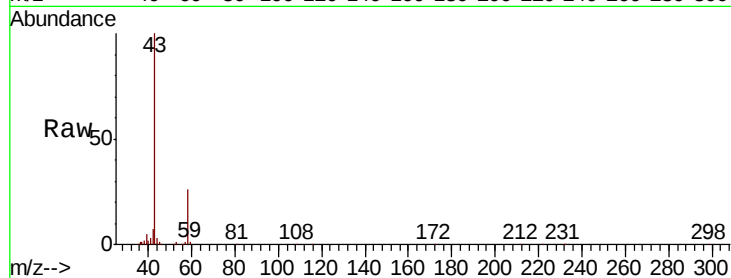
Acq: 3 Jun 2022 22:32

Tot Ion: 43 Resp: 520273

Ion Ratio Lower Upper

43 100

58 28.8 22.5 33.7



#16

1,3-Butadiene

Concen: 6.628 ppbv

RT: 3.37 min Scan# 180

Delta R.T. 0.03 min

Lab File: VL039164.D

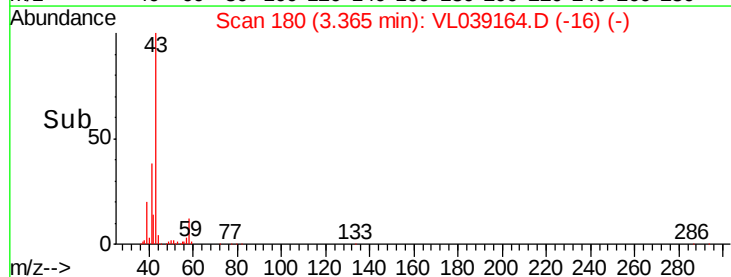
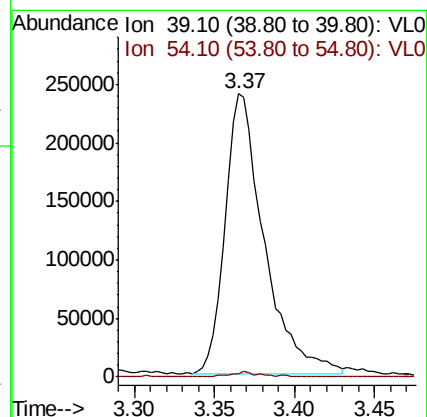
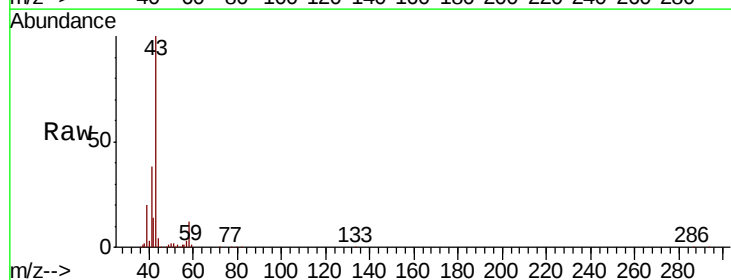
Acq: 3 Jun 2022 22:32

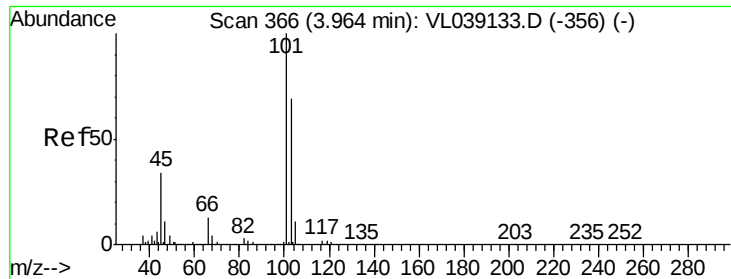
Tgt Ion: 39 Resp: 404061

Ion Ratio Lower Upper

39 100

54 1.8 65.8 98.6#





#19

Isopropyl Alcohol

Concen: 16.962 ppbv

RT: 3.97 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

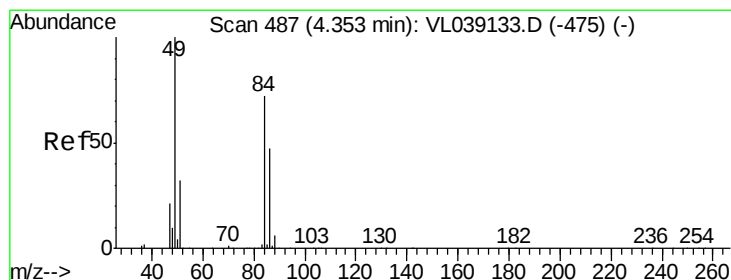
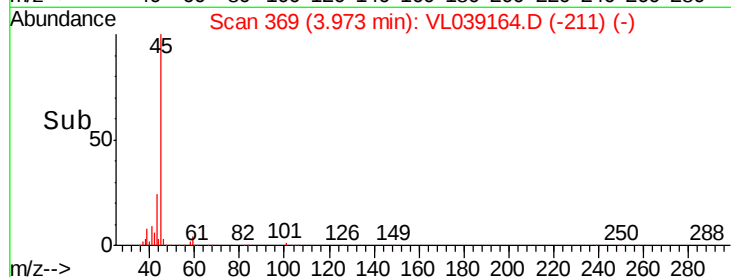
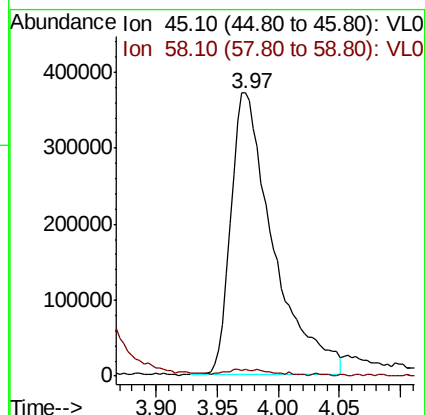
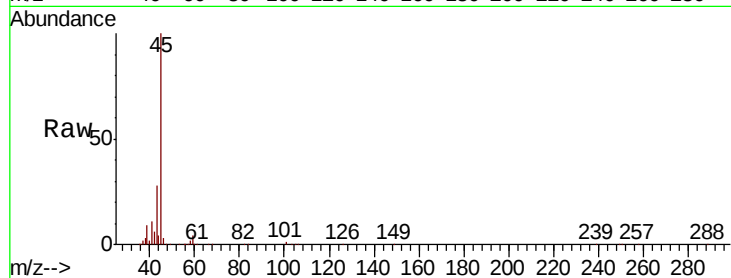
Acq: 3 Jun 2022 22:32

Tot Ion: 45 Resp: 902185

Ion Ratio Lower Upper

45 100

58 2.8 1.8 2.8#



#20

Methylene Chloride

Concen: 2.974 ppbv

RT: 4.36 min Scan# 488

Delta R.T. 0.00 min

Lab File: VL039164.D

Acq: 3 Jun 2022 22:32

Tgt Ion: 84 Resp: 142139

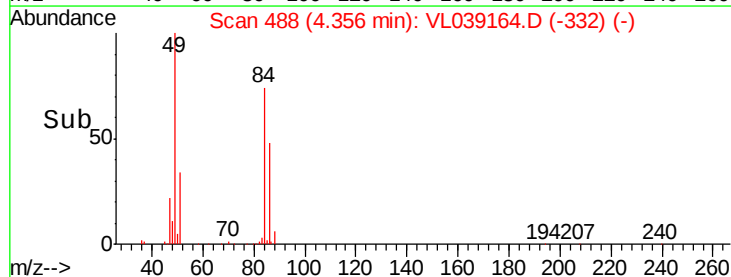
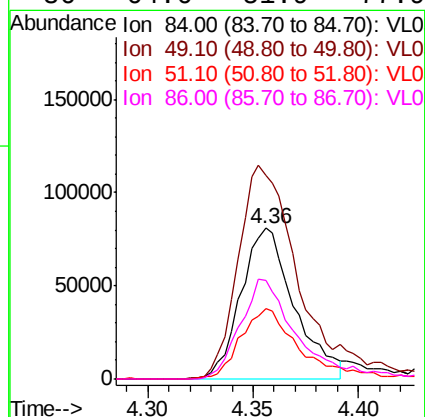
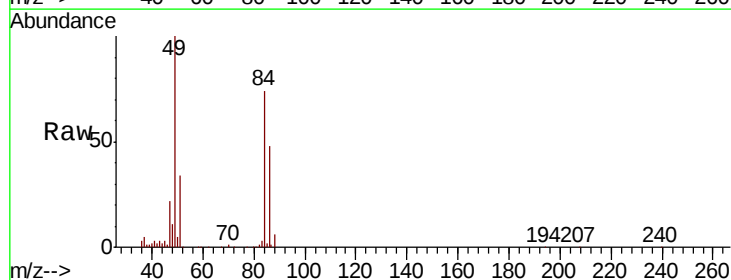
Ion Ratio Lower Upper

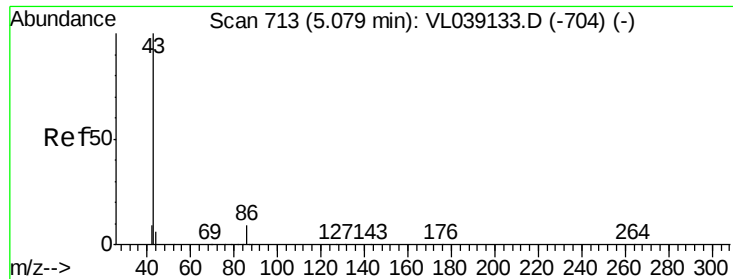
84 100

49 134.4 111.1 166.7

51 46.5 35.3 52.9

86 64.6 51.9 77.9





#23

Vinyl Acetate

Concen: 0.040 ppbv

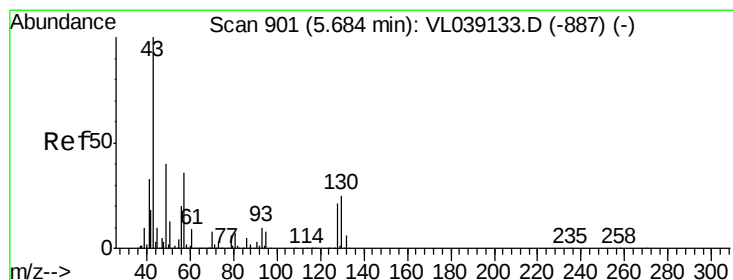
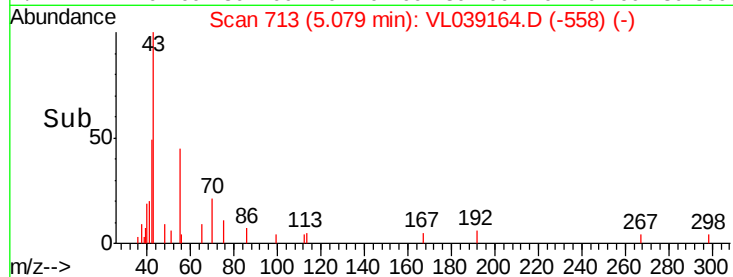
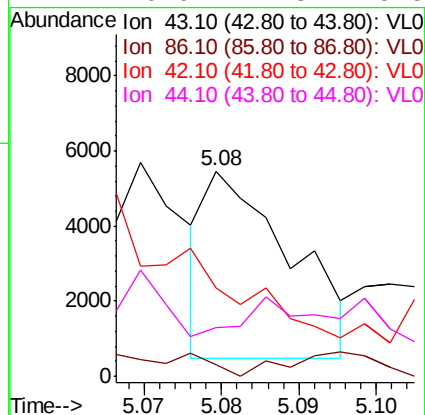
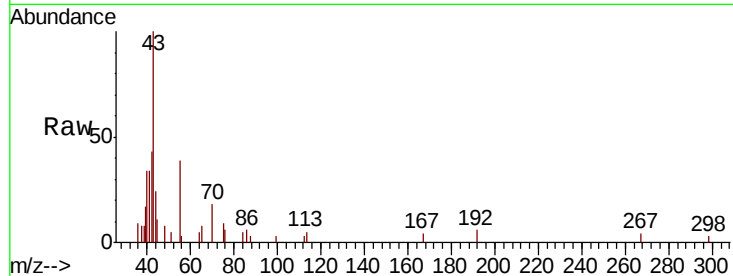
RT: 5.08 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 3 Jun 2022 22:32

Tot Ion:	43	Resp:	3795
Ion	Ratio	Lower	Upper
43	100		
86	0.0	6.0	9.0#
42	38.3	8.2	12.4#
44	6.9	4.3	6.5#



#25

Ethyl Acetate

Concen: 0.375 ppbv

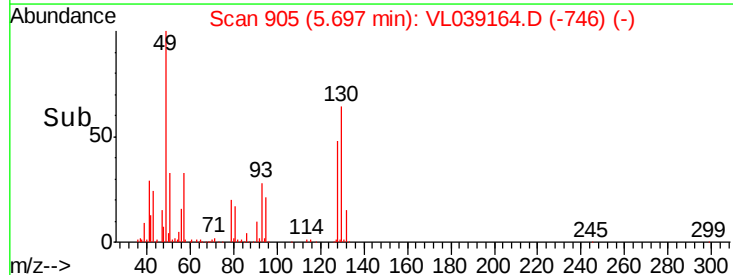
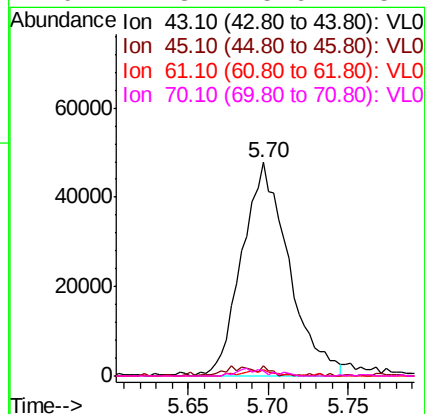
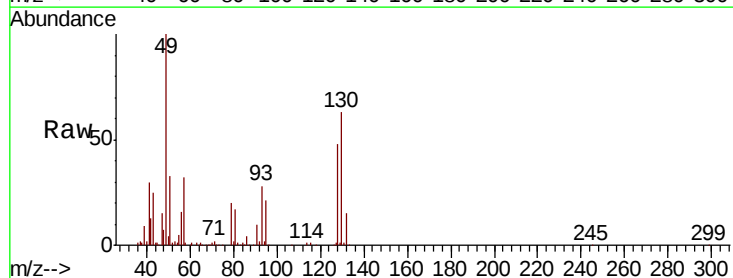
RT: 5.70 min Scan# 905

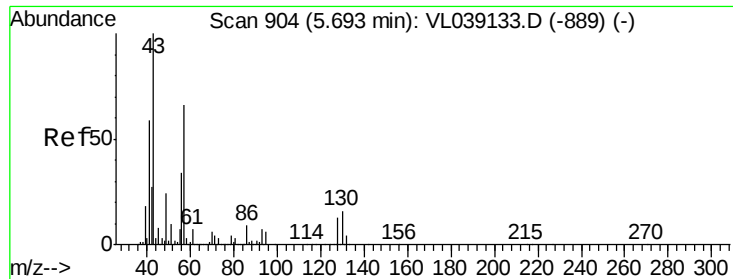
Delta R.T. 0.01 min

Lab File: VL039164.D

Acq: 3 Jun 2022 22:32

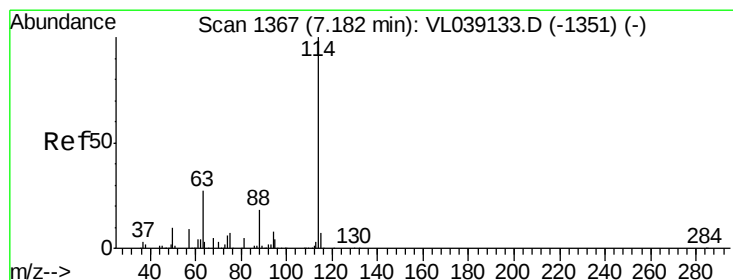
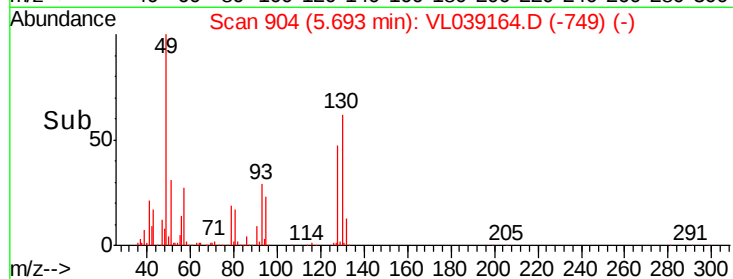
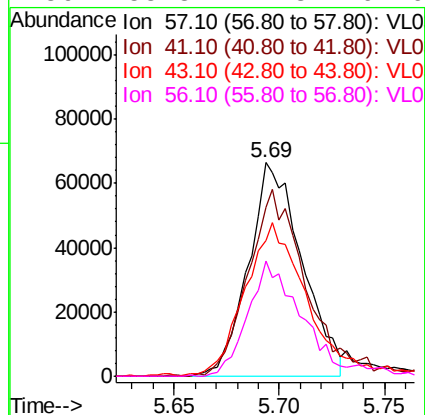
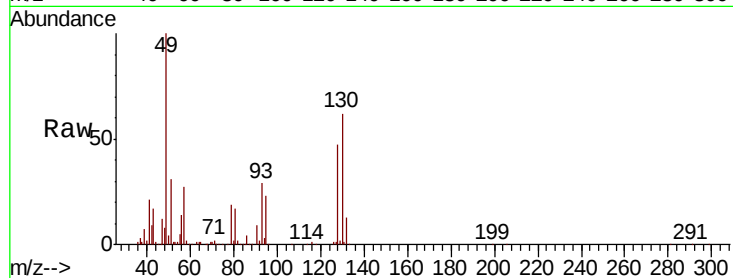
Tgt Ion:	43	Resp:	95757
Ion	Ratio	Lower	Upper
43	100		
45	3.9	8.2	12.2#
61	2.1	8.4	12.6#
70	2.3	5.6	8.4#





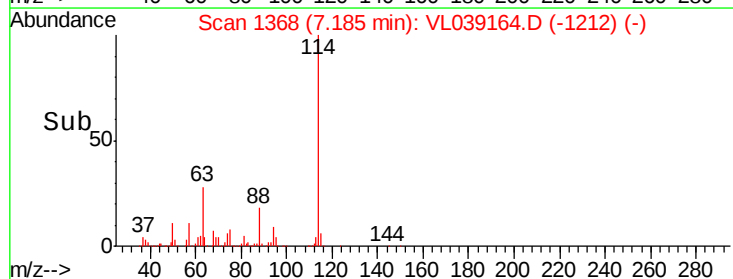
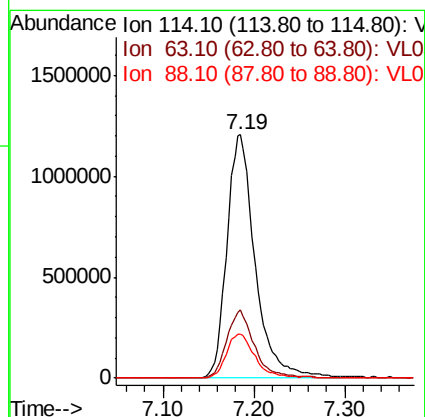
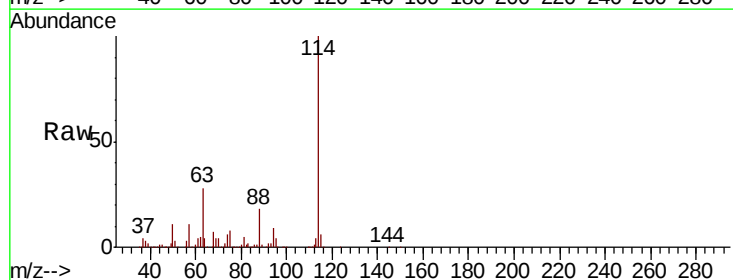
#26
 Hexane
 Concen: 1.045 ppbv
 RT: 5.69
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Jun 2022 22:32

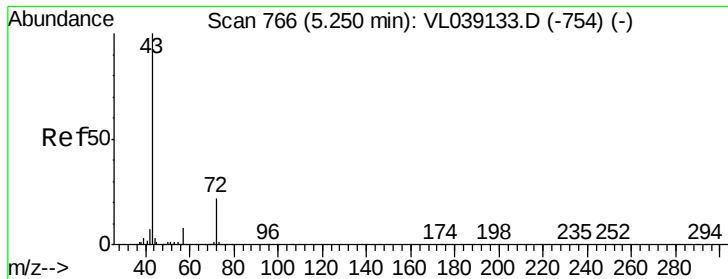
Tot Ion:	57	Resp:	117404
Ion	Ratio	Lower	Upper
57	100		
41	98.8	72.4	108.6
43	86.6	187.0	280.6#
56	55.8	41.8	62.6



#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.19 min Scan# 1368
 Delta R.T. 0.00 min
 Lab File: VL039164.D
 Acq: 3 Jun 2022 22:32

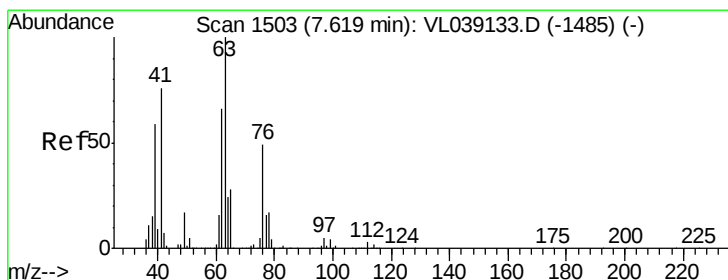
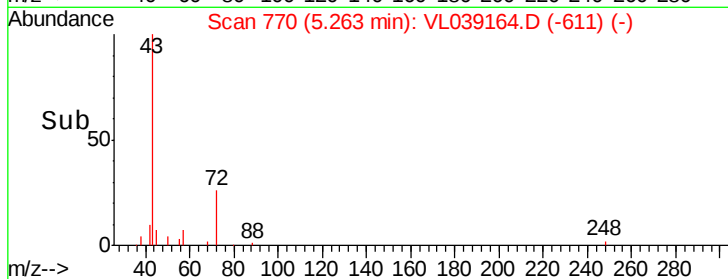
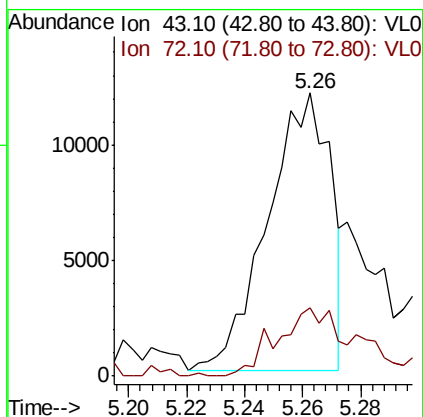
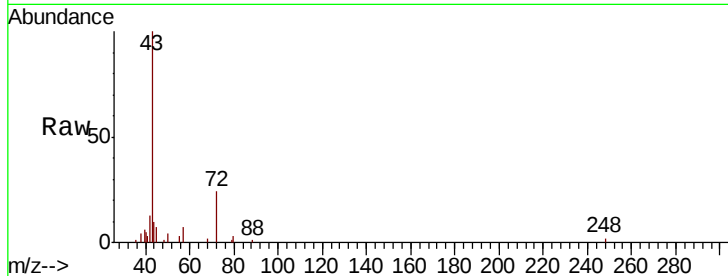
Tgt Ion:	114	Resp:	2602304
Ion	Ratio	Lower	Upper
114	100		
63	27.7	21.7	32.5
88	18.6	14.8	22.2





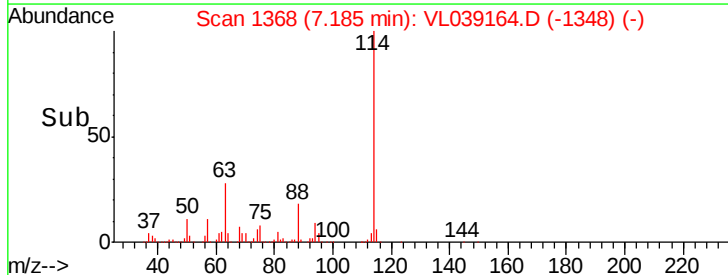
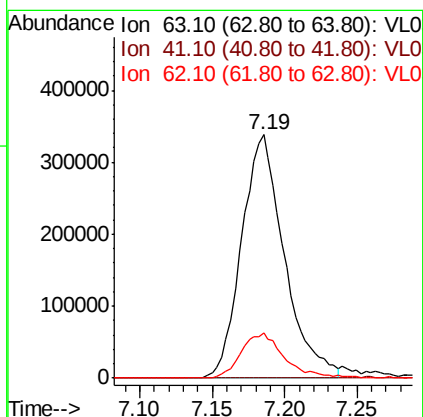
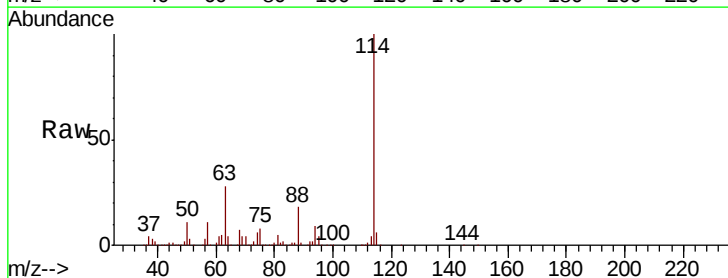
#34
2-Butanone
Concen: 0.127 ppbv
RT: 5.26
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 3 Jun 2022 22:32

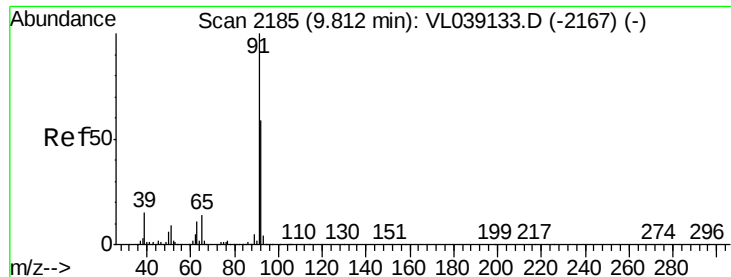
Tot Ion: 43 Resp: 18000
Ion Ratio Lower Upper
43 100
72 36.0 18.2 27.2#



#39
1,2-Dichloropropane
Concen: 8.261 ppbv
RT: 7.19 min Scan# 1368
Delta R.T. -0.43 min
Lab File: VL039164.D
Acq: 3 Jun 2022 22:32

Tgt Ion: 63 Resp: 694205
Ion Ratio Lower Upper
63 100
41 0.0 60.8 91.2#
62 18.3 52.9 79.3#





#53

Toluene

Concen: 0.069 ppbv

RT: 9.82 Instrument: MSVOA_1

Delta R.T. -0.00 min

Lab File: ClientSampleId: IA4DL

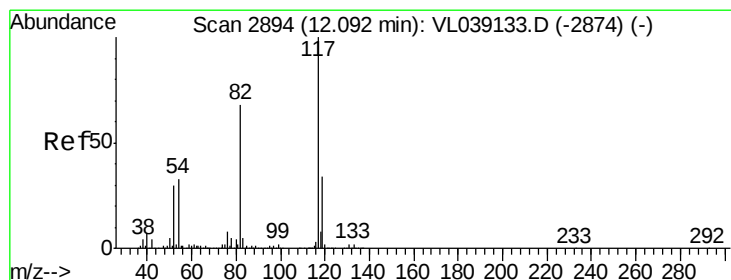
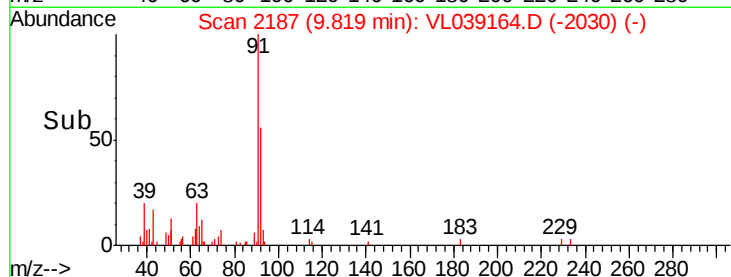
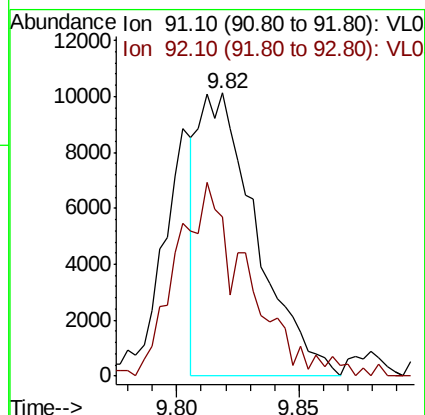
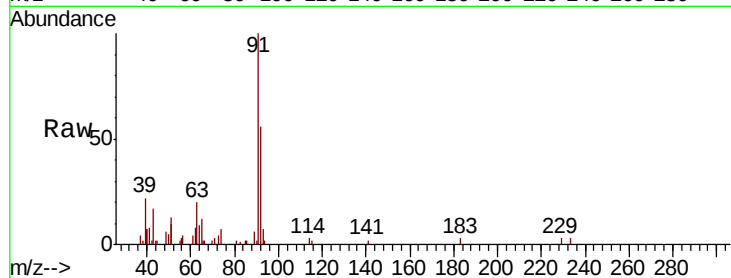
Acq: 3 Jun 2022 22:32

Tot Ion: 91 Resp: 16670

Ion Ratio Lower Upper

91 100

92 85.4 48.1 72.1#



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.09 min Scan# 2894

Delta R.T. -0.00 min

Lab File: VL039164.D

Acq: 3 Jun 2022 22:32

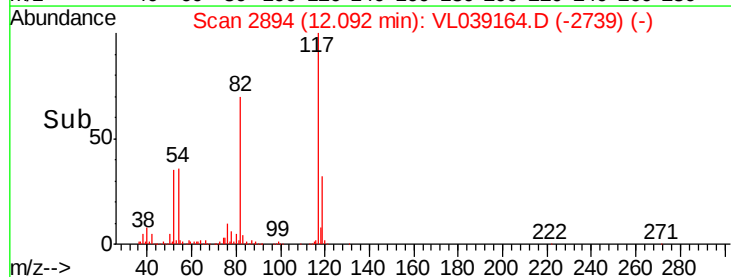
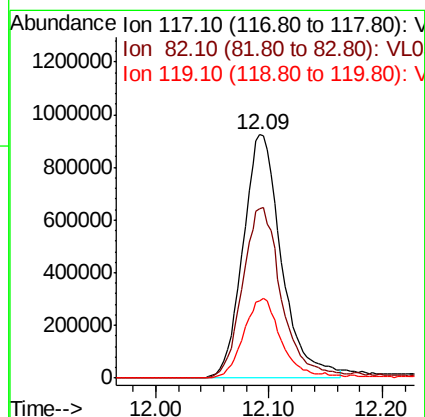
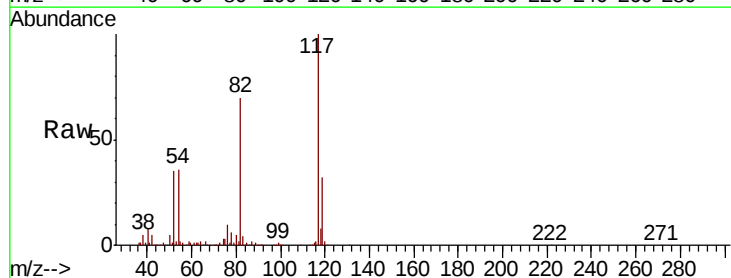
Tgt Ion: 117 Resp: 2183766

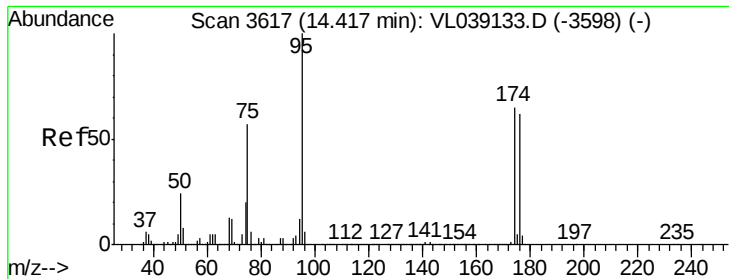
Ion Ratio Lower Upper

117 100

82 73.4 55.1 82.7

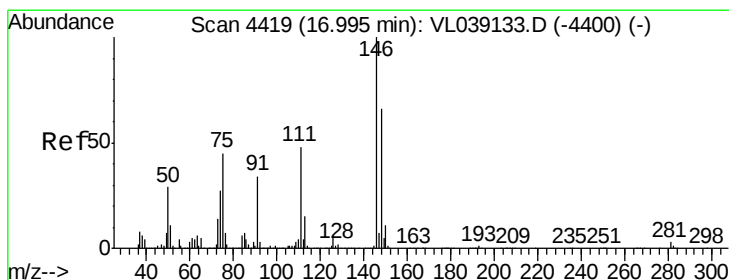
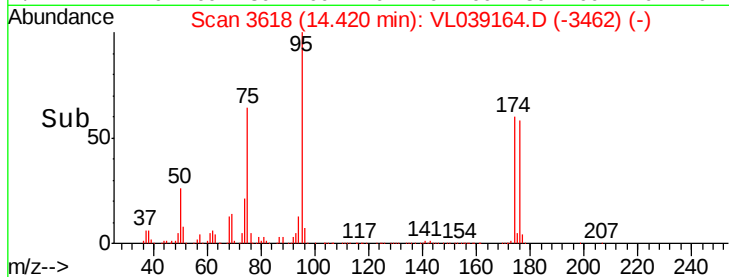
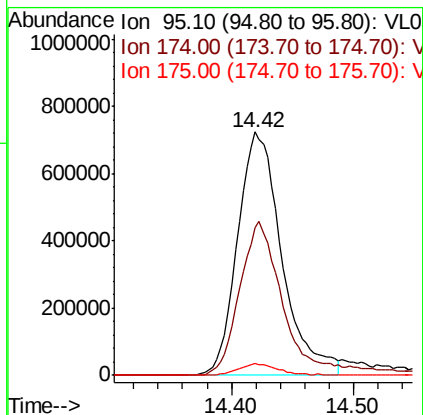
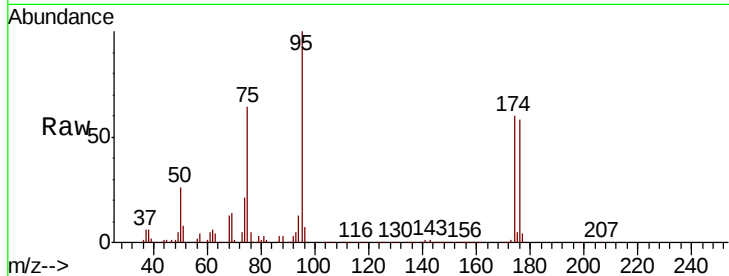
119 33.3 24.7 37.1





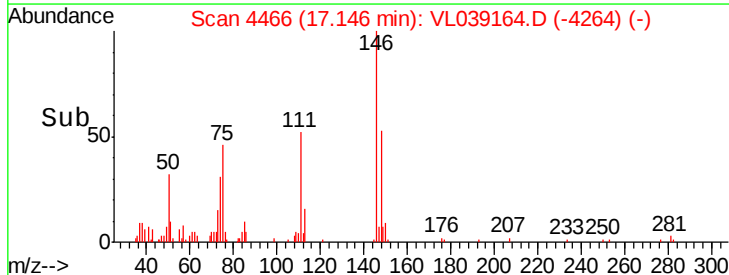
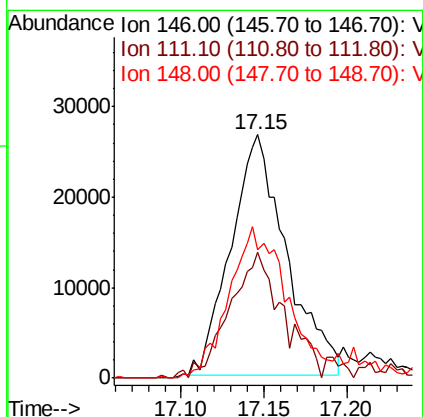
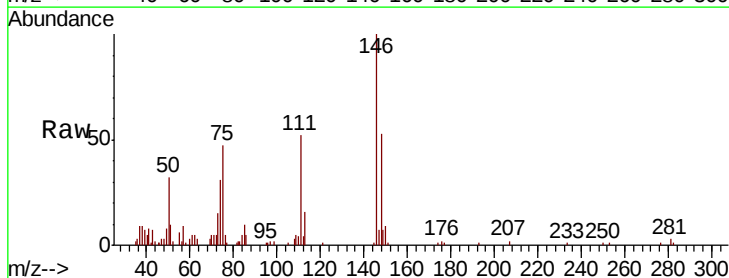
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.072 ppbv
 RT: 14.42
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 3 Jun 2022 22:32

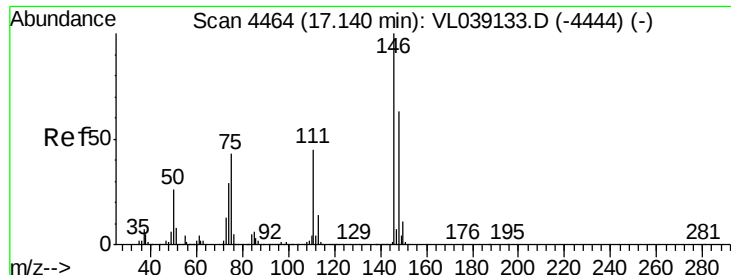
Tot Ion: 95 Resp: 1818305
 Ion Ratio Lower Upper
 95 100
 174 65.8 53.8 80.8
 175 4.6 4.1 6.1



#75
 1,3-Dichlorobenzene
 Concen: 0.373 ppbv
 RT: 17.15 min Scan# 4466
 Delta R.T. 0.15 min
 Lab File: VL039164.D
 Acq: 3 Jun 2022 22:32

Tgt Ion: 146 Resp: 62027
 Ion Ratio Lower Upper
 146 100
 111 54.8 23.8 71.4
 148 73.5 32.4 97.0





#76

1,4-Dichlorobenzene

Concen: 0.374 ppbv

RT: 17.15

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 3 Jun 2022 22:32

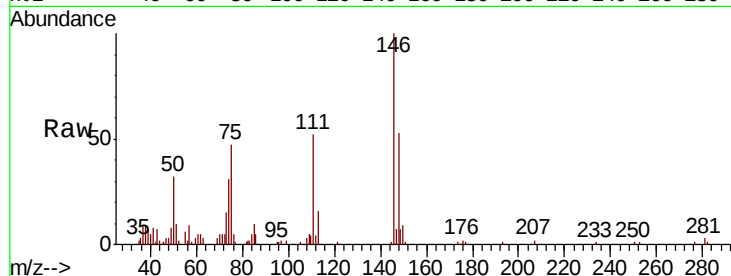
Tot Ion:146 Resp: 62027

Ion Ratio Lower Upper

146 100

111 54.8 23.6 71.0

148 73.5 33.7 101.0



Abundance Ion 146.00 (145.70 to 146.70): V

Ion 111.10 (110.80 to 111.80): V

Ion 148.00 (147.70 to 148.70): V

