

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL061422\
 Data File : VL039292.D
 Acq On : 15 Jun 2022 9:50
 Operator : SY/AP
 Sample : N3326-05
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Quant Time: Jun 16 01:14:34 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	1428495	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.17	114	3834014	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	3310729	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2551022	9.32	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.20%

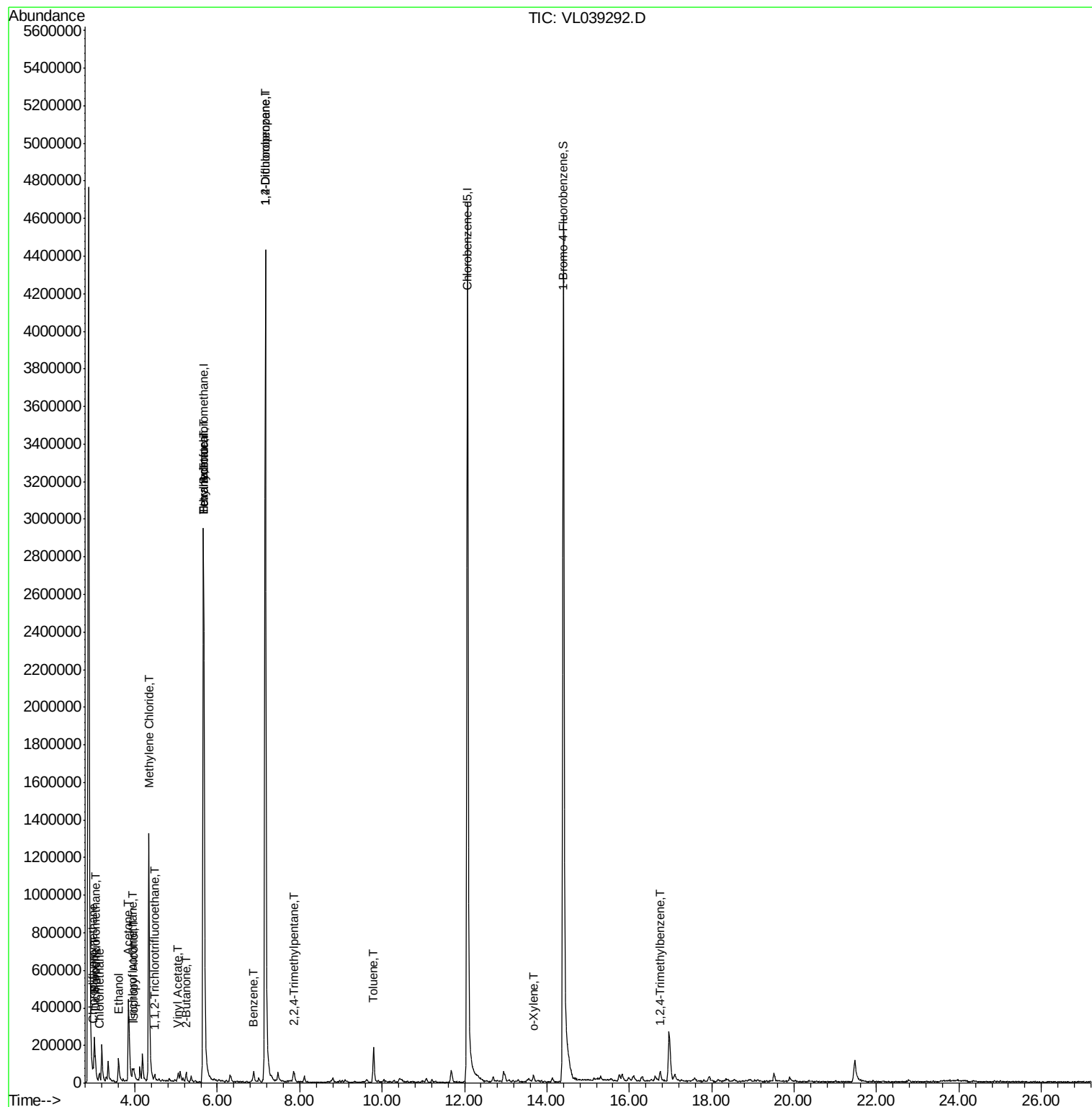
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	69675	0.278	ppbv	89
3) Chlorodifluoromethane	2.99	51	71599	0.394	ppbv #	85
4) Chloromethane	3.14	50	23350	0.250	ppbv #	80
9) Propene	3.02	41	55909	0.705	ppbv #	81
11) Trichlorofluoromethane	3.95	101	19484	0.086	ppbv	97
12) 1,1,2-Trichlorotrifluoroet	4.48	101	8330	0.055	ppbv #	78
13) Ethanol	3.60	45	137784	31.879	ppbv #	100
15) Acetone	3.84	43	572672	3.849	ppbv	97
19) Isopropyl Alcohol	3.97	45	45003	0.645	ppbv #	93
20) Methylene Chloride	4.34	84	539551	8.604	ppbv	93
23) Vinyl Acetate	5.05	43	16675	0.135	ppbv #	55
25) Ethyl Acetate	5.68	43	412113	1.229	ppbv #	80
26) Hexane	5.68	57	539104	3.658	ppbv #	43
34) 2-Butanone	5.25	43	53262	0.256	ppbv #	83
36) Benzene	6.88	78	43475	0.140	ppbv	98
39) 1,2-Dichloropropane	7.16	63	926407	7.483	ppbv #	24
41) Tetrahydrofuran	5.68	42	194525	1.553	ppbv #	50
44) 2,2,4-Trimethylpentane	7.86	57	49928	0.092	ppbv #	79
53) Toluene	9.80	91	141190	0.394	ppbv	97
60) o-Xylene	13.67	91	13558	0.036	ppbv #	31
74) 1,2,4-Trimethylbenzene	16.74	105	19199	0.043	ppbv #	56

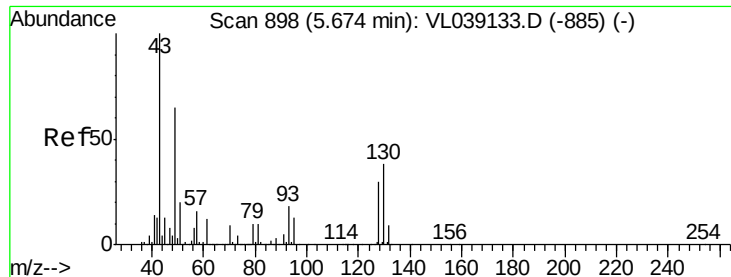
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_1

Lab File: ClientSampleId:

Acq: 15 Jun 2022 9:50

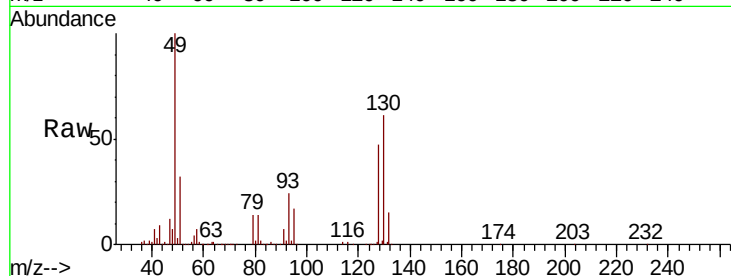
Tot Ion: 49 Resp: 1428495

Ion Ratio Lower Upper

49 100

128 51.3 24.7 74.1

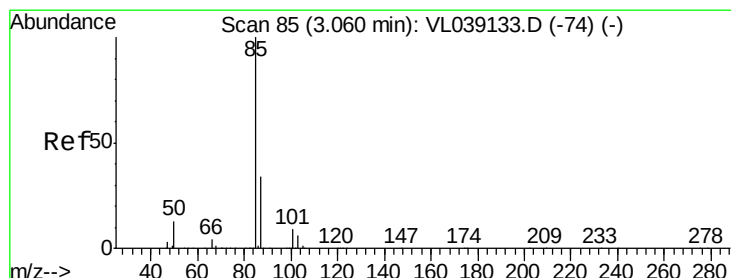
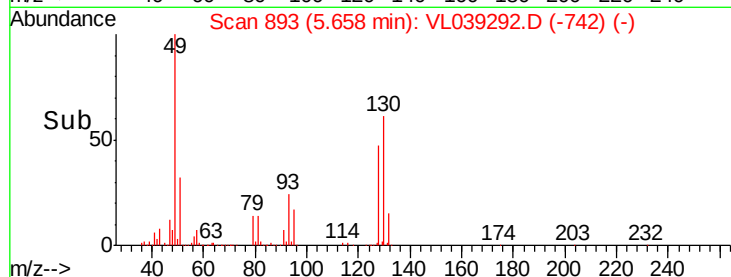
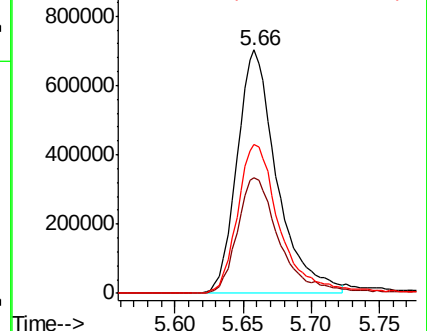
130 65.9 31.4 94.0



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: 0.278 ppbv

RT: 3.04 min Scan# 80

Delta R.T. -0.02 min

Lab File: VL039292.D

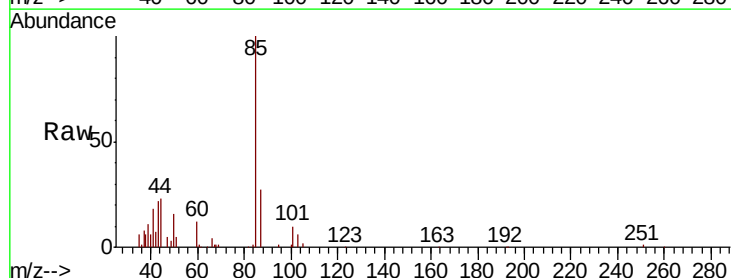
Acq: 15 Jun 2022 9:50

Tgt Ion: 85 Resp: 69675

Ion Ratio Lower Upper

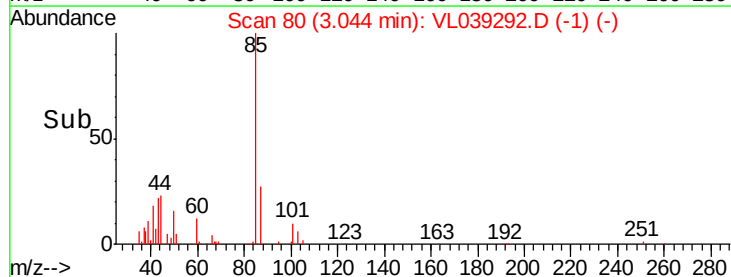
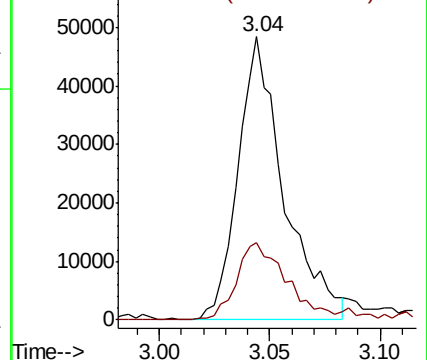
85 100

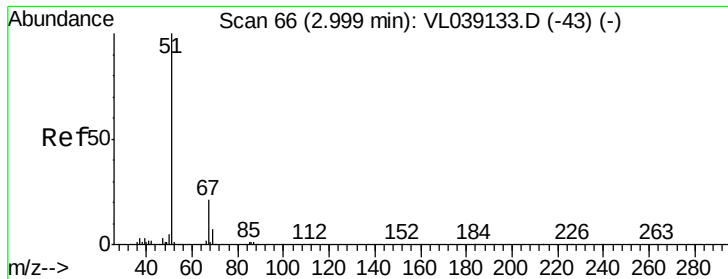
87 27.3 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.394 ppbv

RT: 2.99 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId: OA1

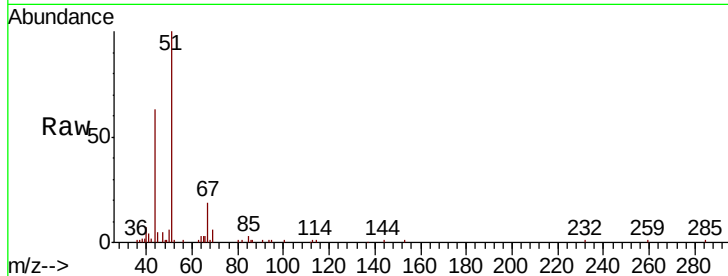
Acq: 15 Jun 2022 9:50

Tot Ion: 51 Resp: 71599

Ion Ratio Lower Upper

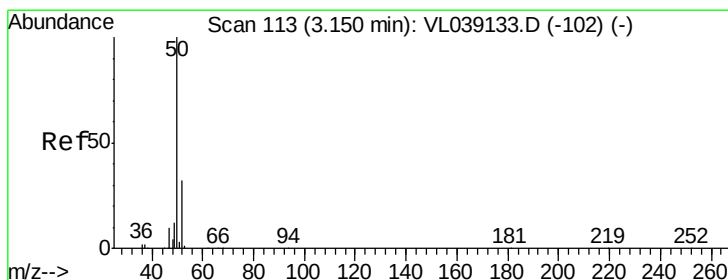
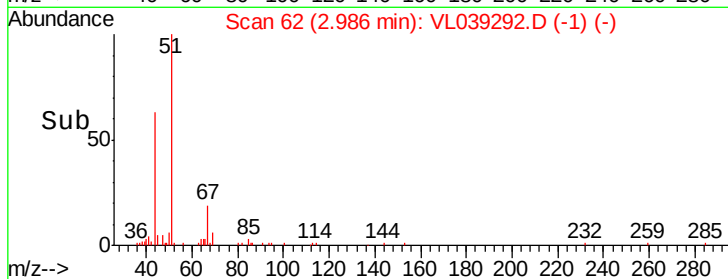
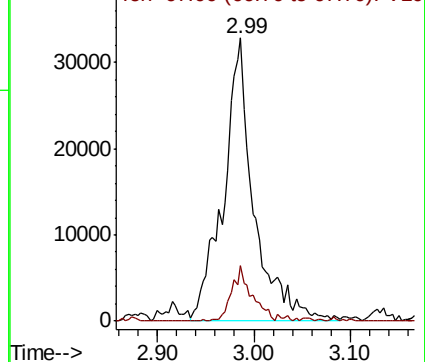
51 100

67 13.4 16.2 24.4#



Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.250 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL039292.D

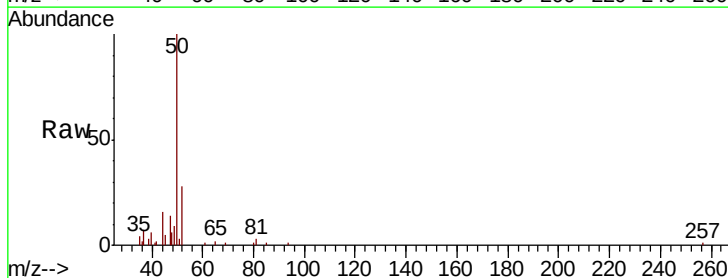
Acq: 15 Jun 2022 9:50

Tgt Ion: 50 Resp: 23350

Ion Ratio Lower Upper

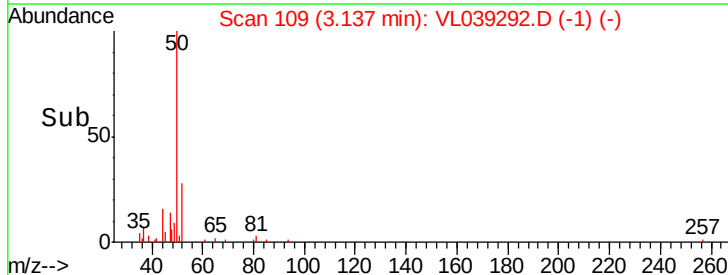
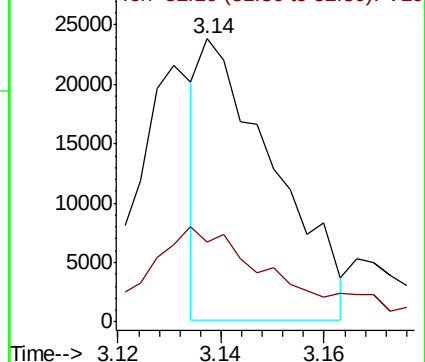
50 100

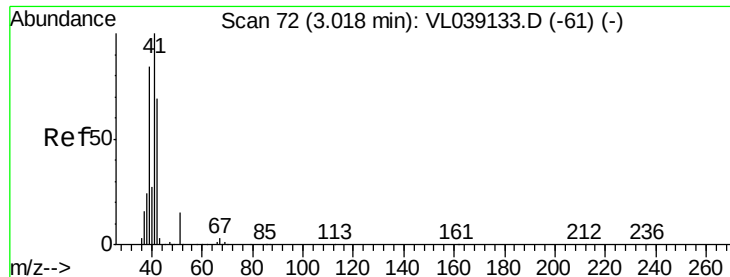
52 21.0 25.9 38.9#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.705 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

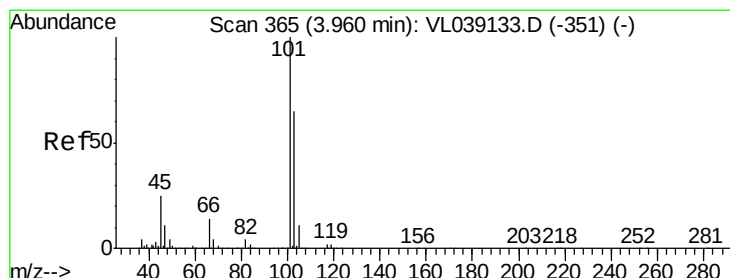
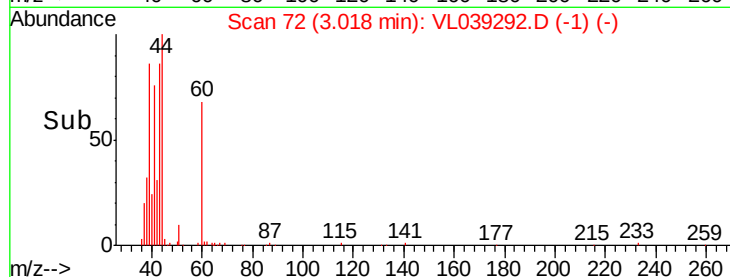
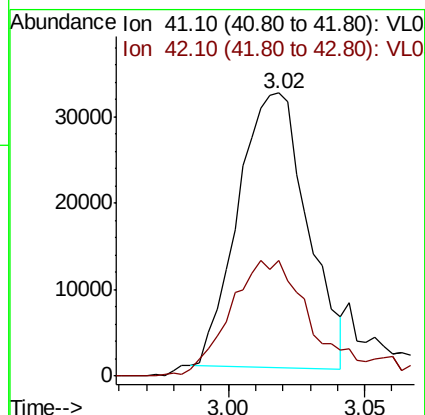
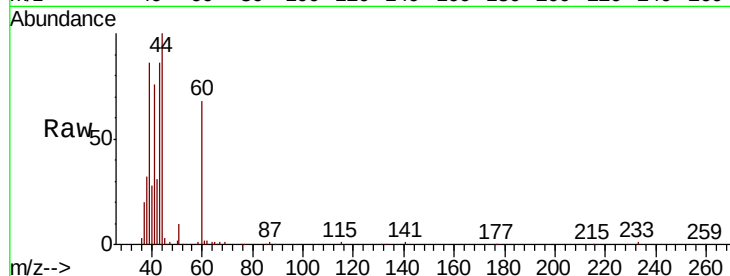
Acq: 15 Jun 2022 9:50

Tot Ion: 41 Resp: 55909

Ion Ratio Lower Upper

41 100

42 53.7 55.4 83.2#



#11

Trichlorofluoromethane

Concen: 0.086 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL039292.D

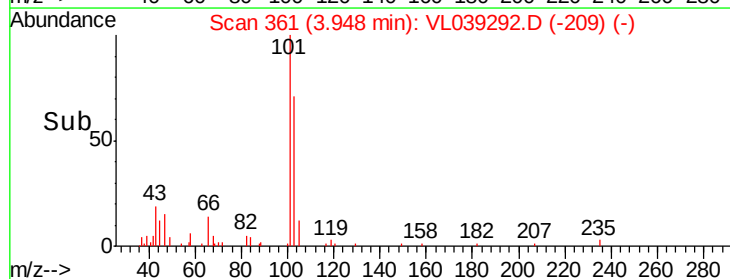
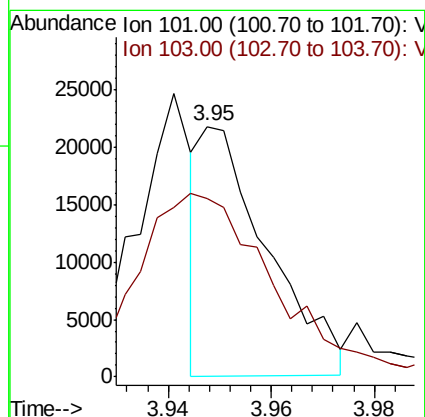
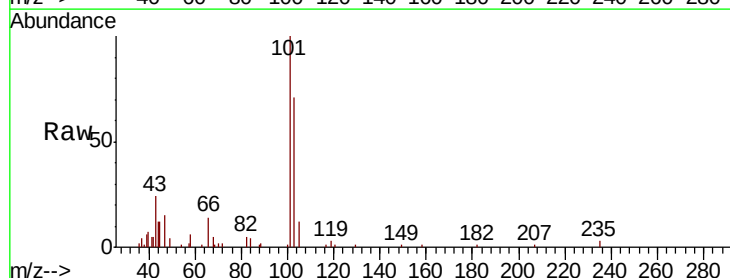
Acq: 15 Jun 2022 9:50

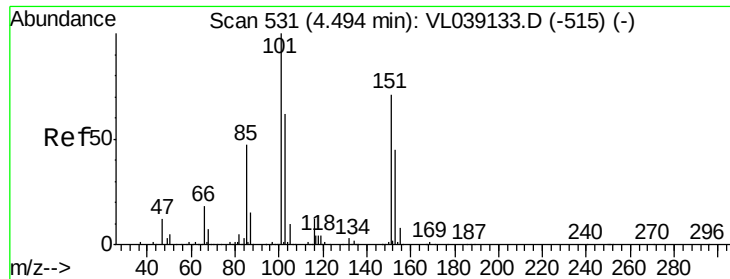
Tgt Ion: 101 Resp: 19484

Ion Ratio Lower Upper

101 100

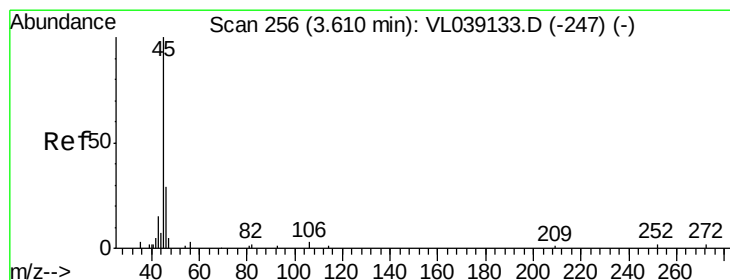
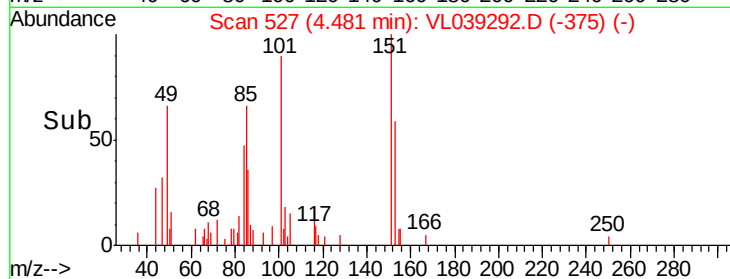
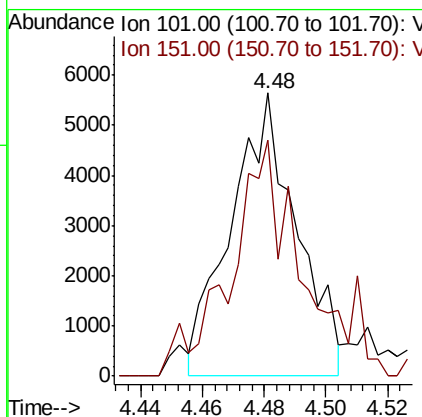
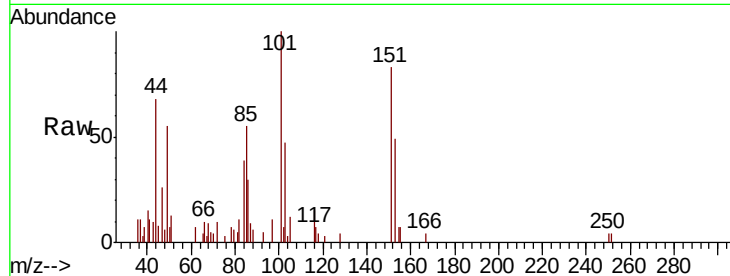
103 66.8 51.7 77.5





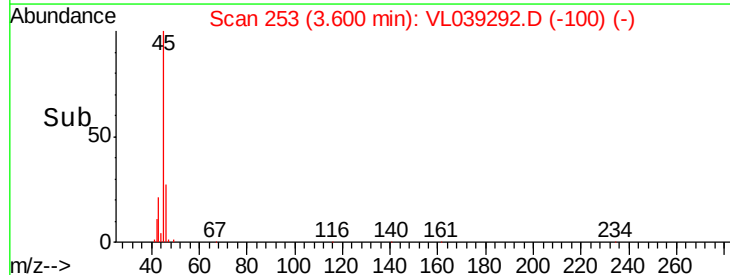
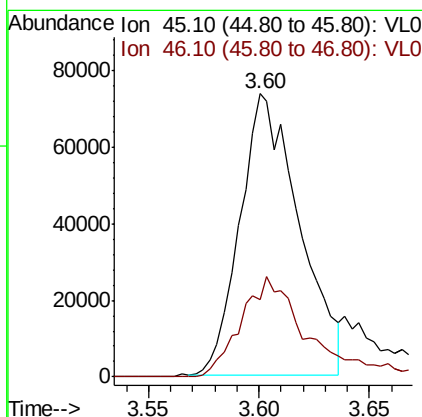
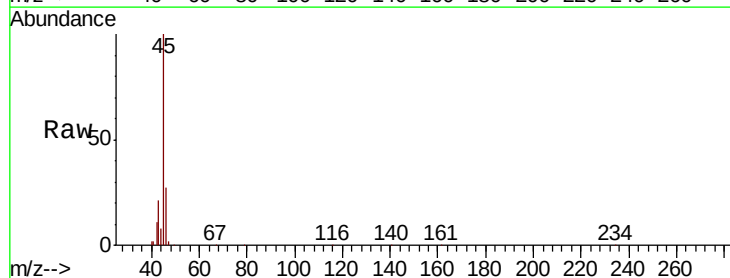
#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.055 ppbv
 RT: 4.48
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 15 Jun 2022 9:50

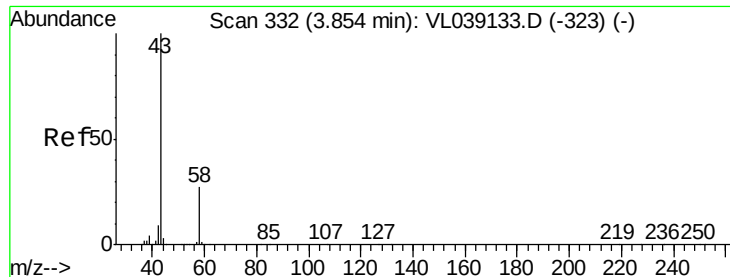
Tot Ion:101 Resp: 8330
 Ion Ratio Lower Upper
 101 100
 151 93.2 59.4 89.0#



#13
 Ethanol
 Concen: 31.879 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.01 min
 Lab File: VL039292.D
 Acq: 15 Jun 2022 9:50

Tgt Ion: 45 Resp: 137784
 Ion Ratio Lower Upper
 45 100
 46 41.2 0.0 0.0#





#15

Acetone

Concen: 3.849 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

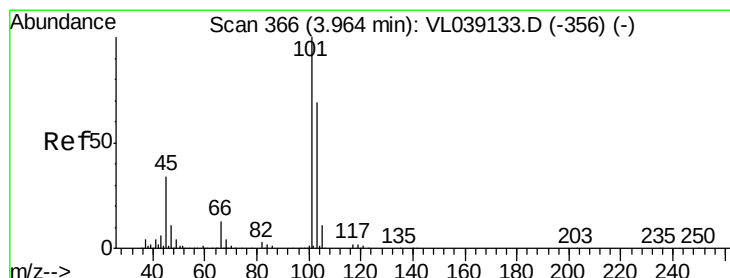
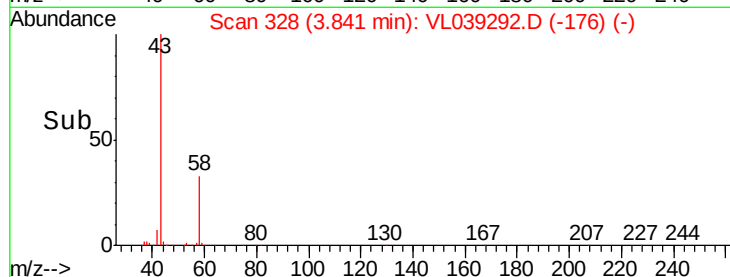
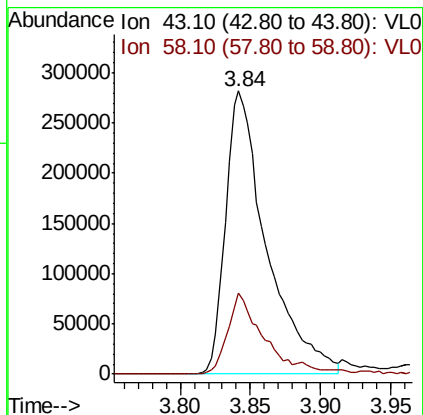
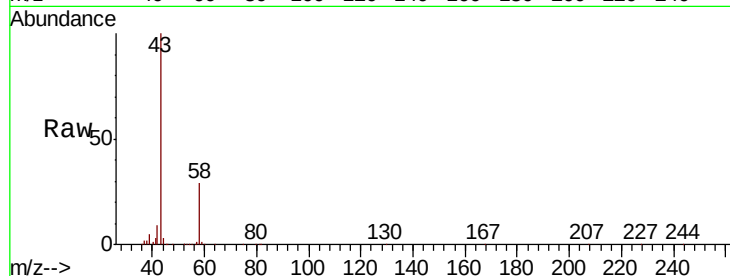
Acq: 15 Jun 2022 9:50

Tot Ion: 43 Resp: 572672

Ion Ratio Lower Upper

43 100

58 26.5 22.5 33.7



#19

Isopropyl Alcohol

Concen: 0.645 ppbv

RT: 3.97 min Scan# 369

Delta R.T. 0.01 min

Lab File: VL039292.D

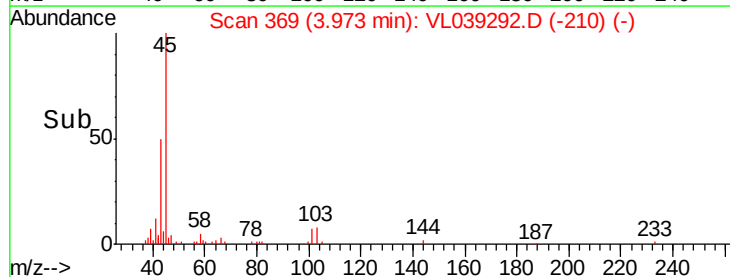
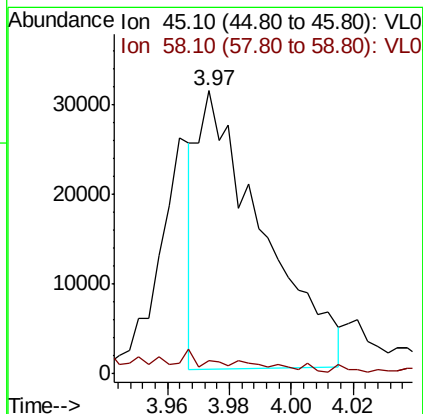
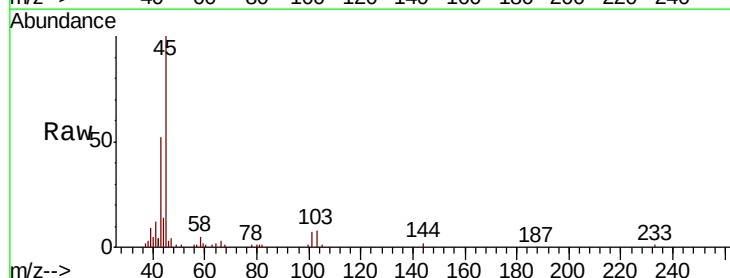
Acq: 15 Jun 2022 9:50

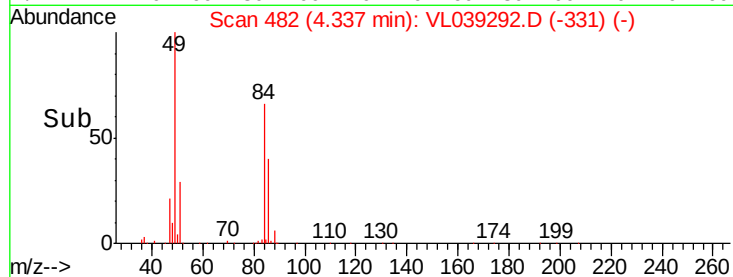
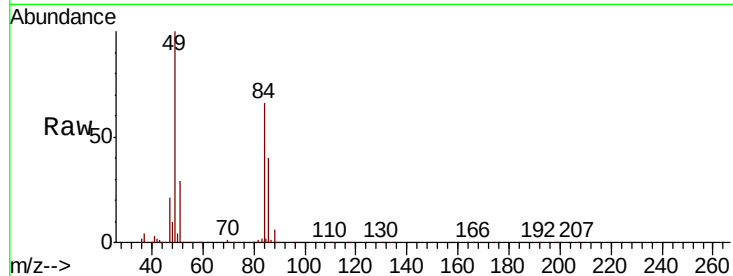
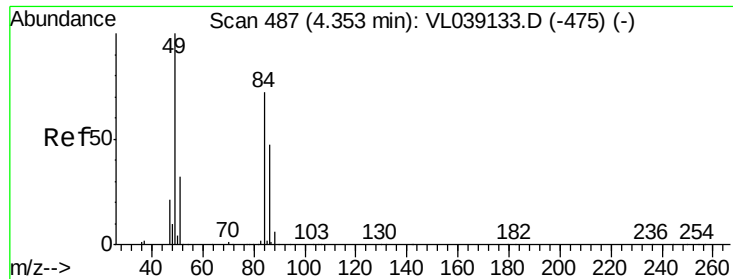
Tgt Ion: 45 Resp: 45003

Ion Ratio Lower Upper

45 100

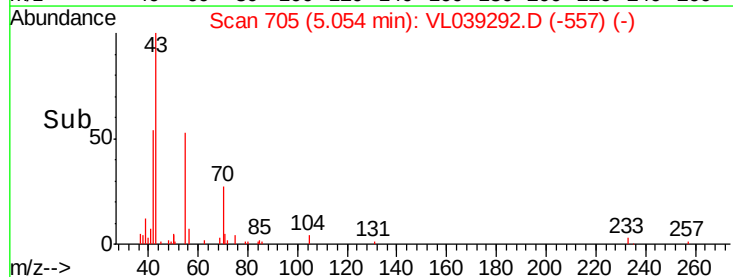
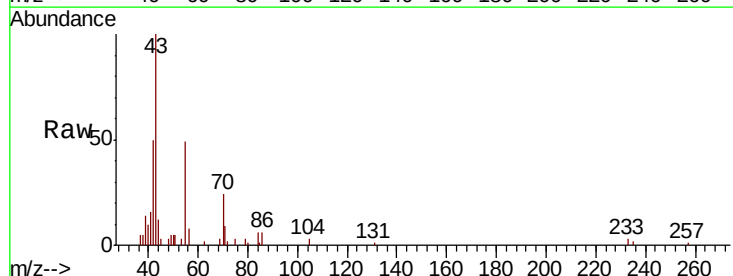
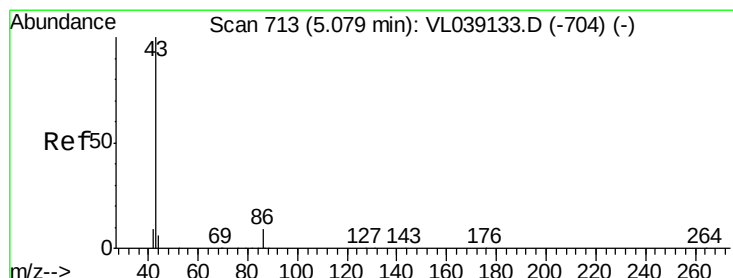
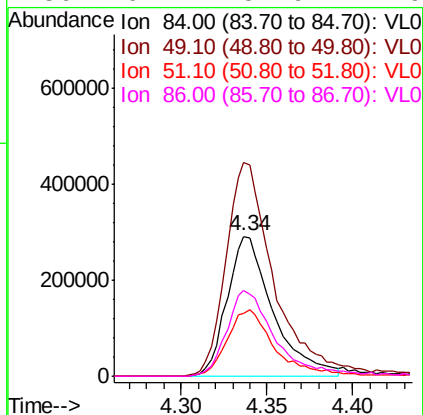
58 0.0 1.8 2.8#





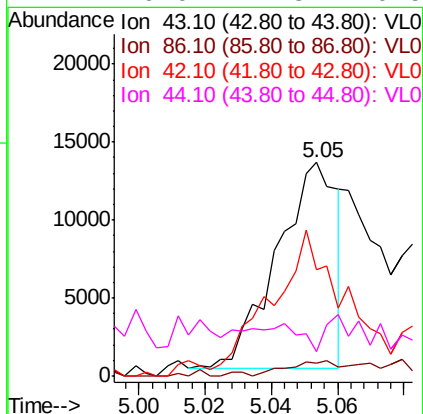
#20
Methvlene Chloride
Concen: 8.604 ppbv
RT: 4.34
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Jun 2022 9:50

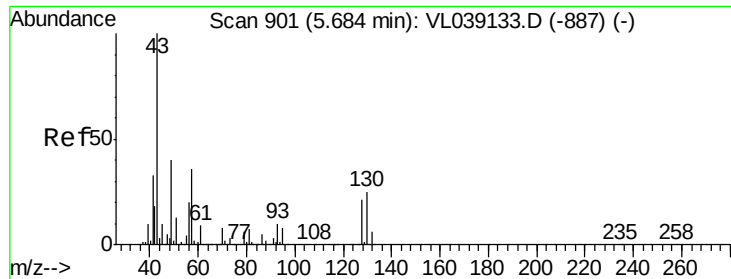
Tot Ion:	84	Resp:	539551
Ion	Ratio	Lower	Upper
84	100		
49	152.1	111.1	166.7
51	44.5	35.3	52.9
86	61.1	51.9	77.9



#23
Vinyl Acetate
Concen: 0.135 ppbv
RT: 5.05 min Scan# 705
Delta R.T. -0.03 min
Lab File: VL039292.D
Acq: 15 Jun 2022 9:50

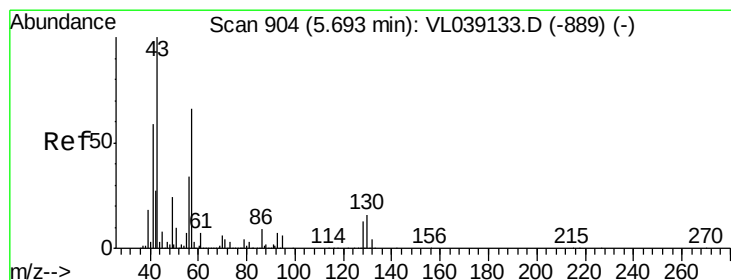
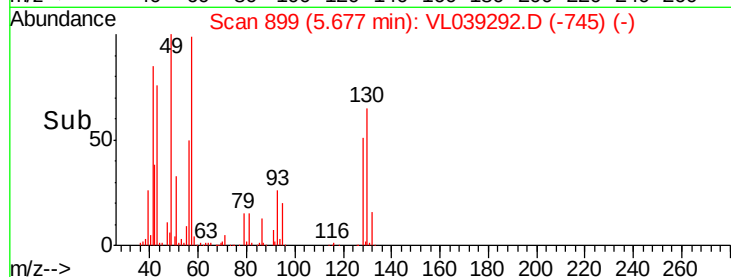
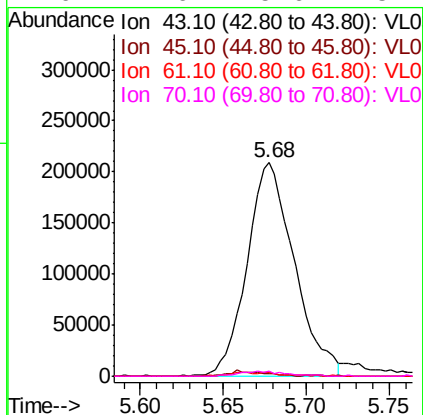
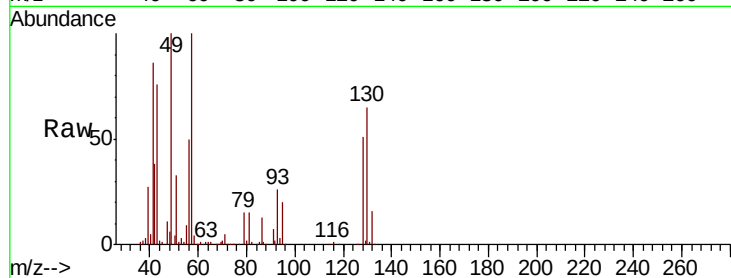
Tgt Ion:	43	Resp:	16675
Ion	Ratio	Lower	Upper
43	100		
86	5.9	6.0	9.0#
42	44.0	8.2	12.4#
44	0.0	4.3	6.5#





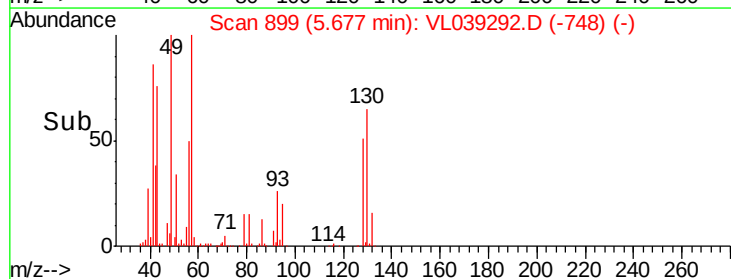
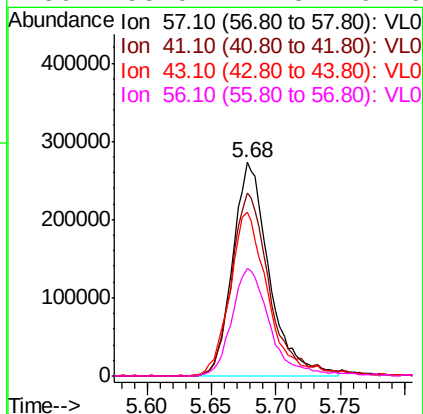
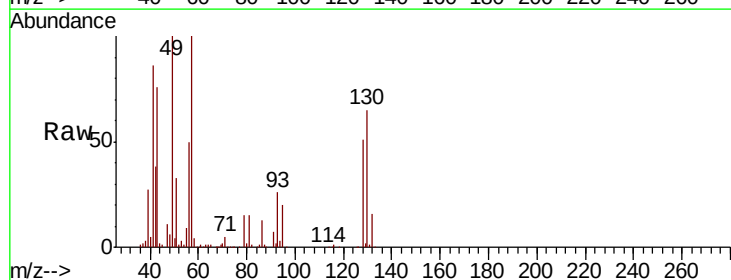
#25
Ethyl Acetate
Concen: 1.229 ppbv
RT: 5.68 min
Delta R.T.: MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Jun 2022 9:50

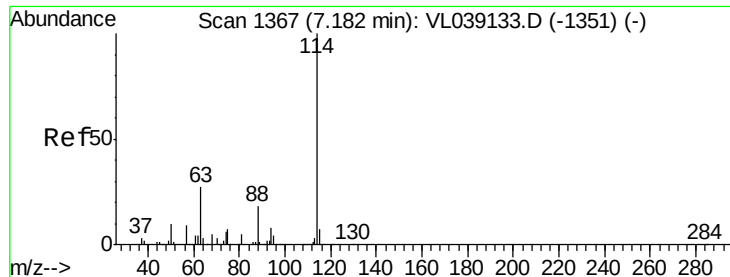
Tot Ion:	43	Resp:	412113
Ion	Ratio	Lower	Upper
43	100		
45	2.5	8.2	12.2#
61	2.0	8.4	12.6#
70	2.6	5.6	8.4#



#26
Hexane
Concen: 3.658 ppbv
RT: 5.68 min Scan# 899
Delta R.T.: -0.02 min
Lab File: VL039292.D
Acq: 15 Jun 2022 9:50

Tgt Ion:	57	Resp:	539104
Ion	Ratio	Lower	Upper
57	100		
41	90.8	72.4	108.6
43	82.2	187.0	280.6#
56	53.0	41.8	62.6





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17

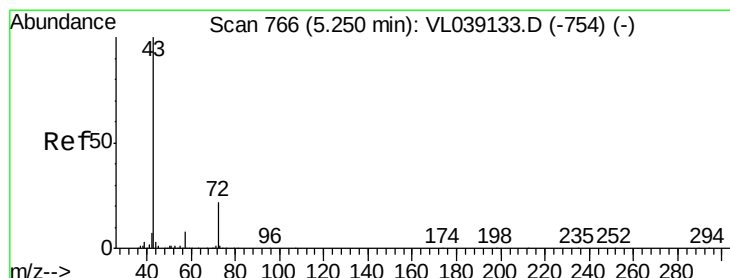
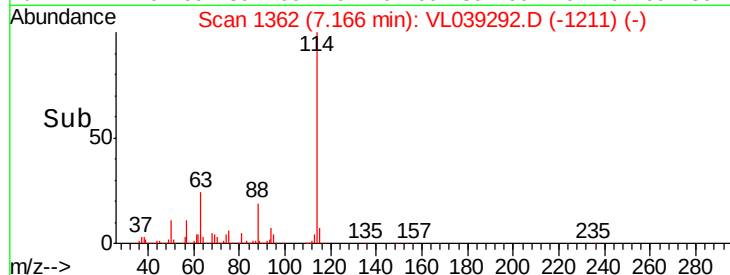
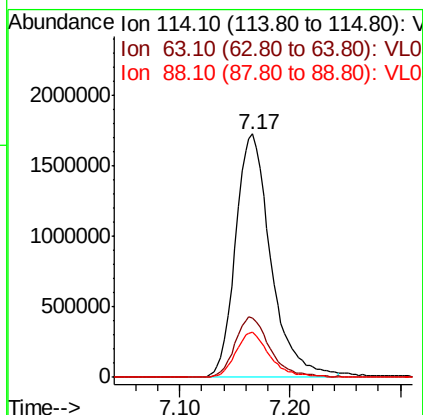
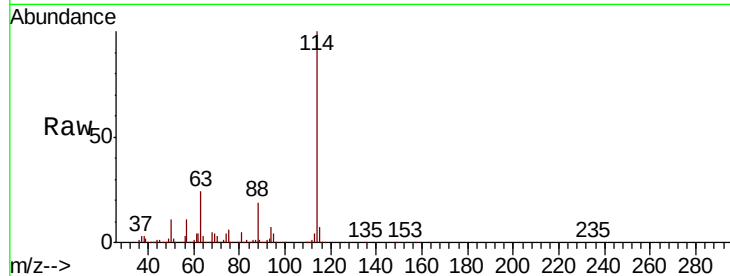
Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 15 Jun 2022 9:50

Tot Ion:114 Resp: 3834014

Ion	Ratio	Lower	Upper
114	100		
63	25.0	21.7	32.5
88	18.0	14.8	22.2



#34

2-Butanone

Concen: 0.256 ppbv

RT: 5.25 min Scan# 765

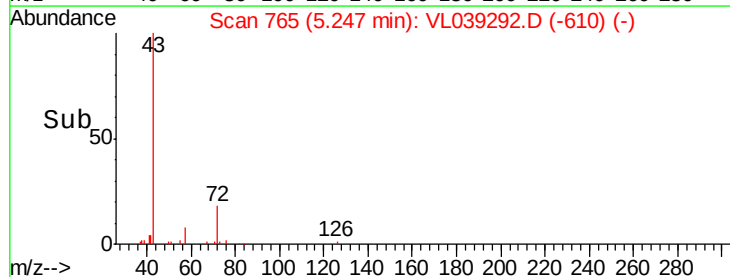
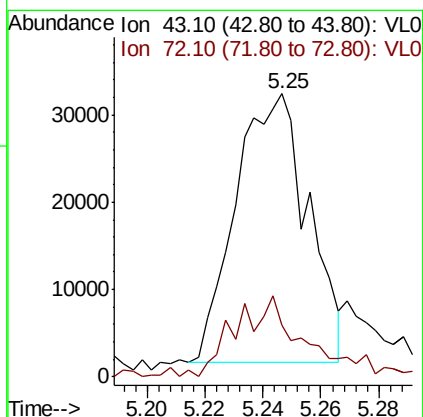
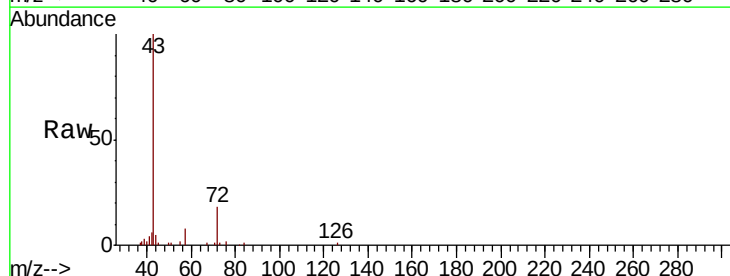
Delta R.T. -0.00 min

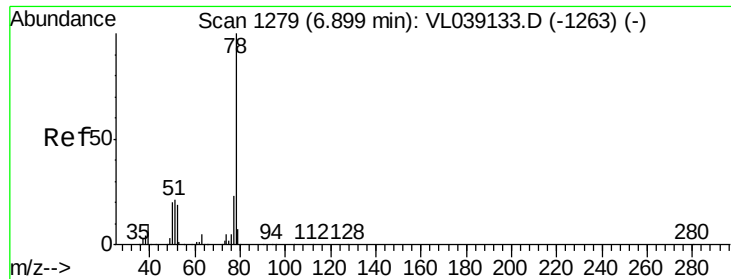
Lab File: VL039292.D

Acq: 15 Jun 2022 9:50

Tgt Ion: 43 Resp: 53262

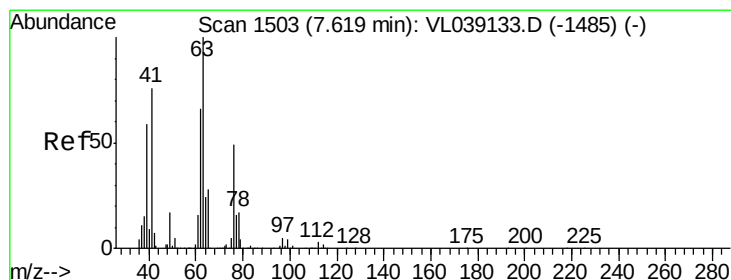
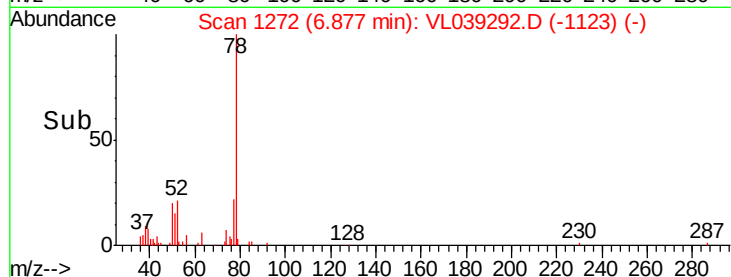
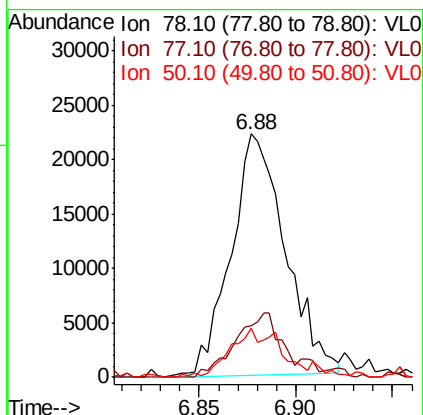
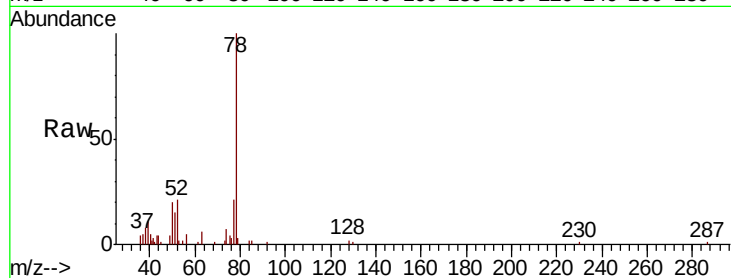
Ion	Ratio	Lower	Upper
43	100		
72	30.9	18.2	27.2#





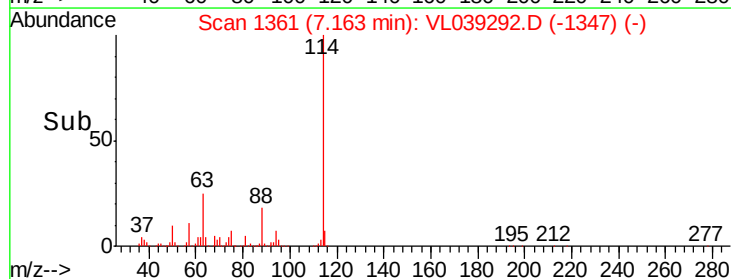
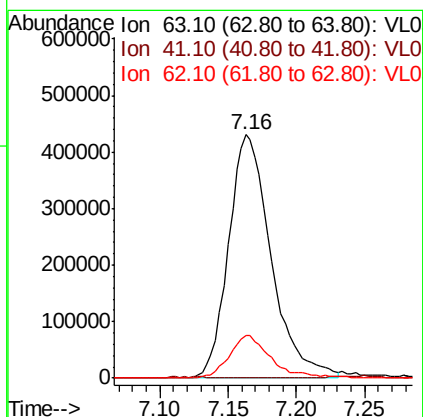
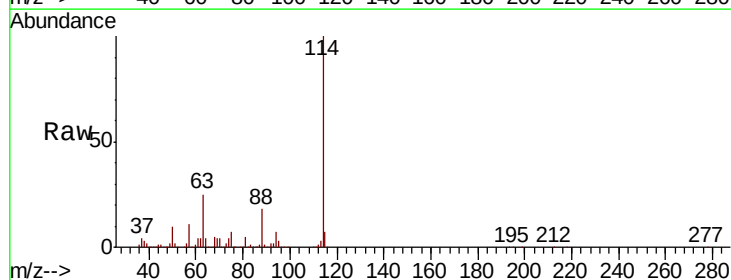
#36
Benzene
Concen: 0.140 ppbv
RT: 6.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Jun 2022 9:50

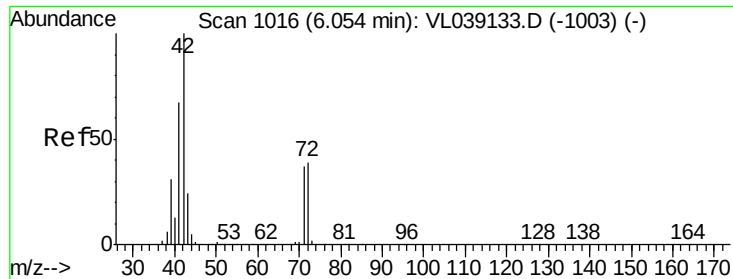
Tot Ion	Ratio	Lower	Upper
78	100		
77	21.9	18.6	27.8
50	19.9	15.8	23.8



#39
1,2-Dichloropropane
Concen: 7.483 ppbv
RT: 7.16 min Scan# 1361
Delta R.T. -0.46 min
Lab File: VL039292.D
Acq: 15 Jun 2022 9:50

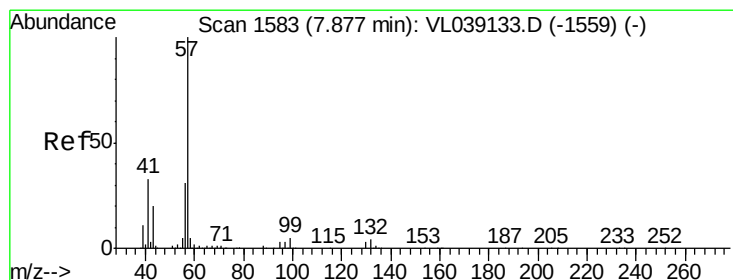
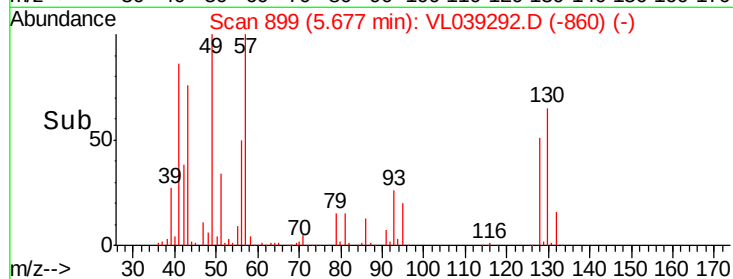
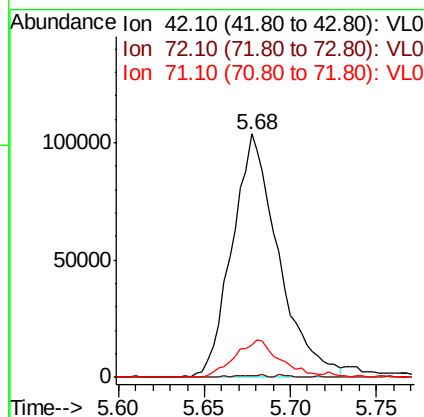
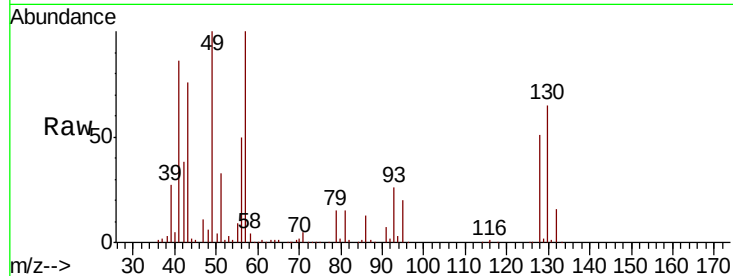
Tgt Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	17.4	52.9	79.3#





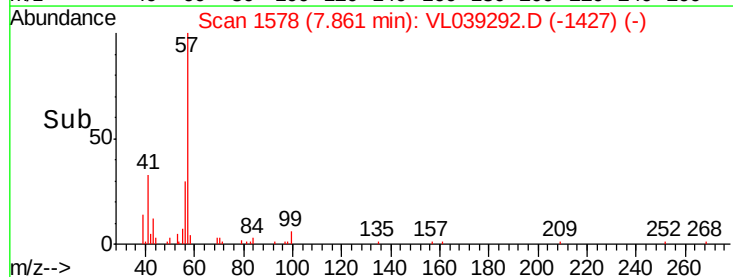
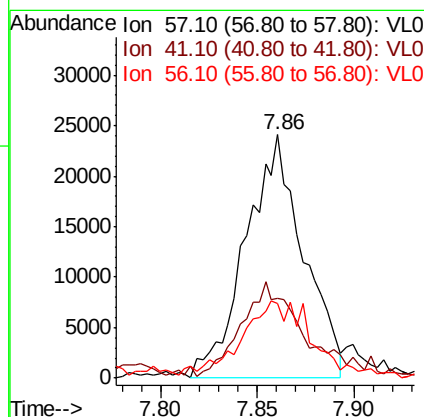
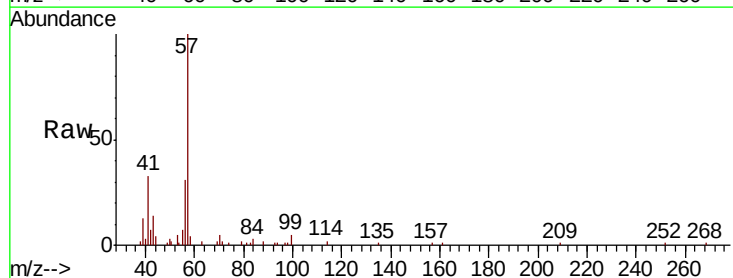
#41
Tetrahydrofuran
Concen: 1.553 ppbv
RT: 5.68
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 15 Jun 2022 9:50

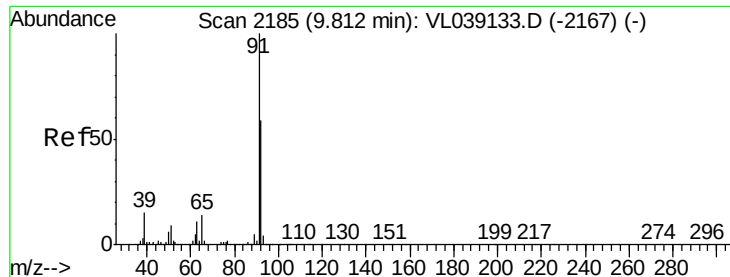
Tot Ion	Ratio	Lower	Upper
42	100		
72	1.1	32.0	48.0#
71	15.9	31.1	46.7#



#44
2,2,4-Trimethylpentane
Concen: 0.092 ppbv
RT: 7.86 min Scan# 1578
Delta R.T.: -0.02 min
Lab File: VL039292.D
Acq: 15 Jun 2022 9:50

Tgt Ion	Ratio	Lower	Upper
57	100		
41	44.1	26.2	39.4#
56	43.4	24.7	37.1#





#53

Toluene

Concen: 0.394 ppbv

RT: 9.80 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: OA1

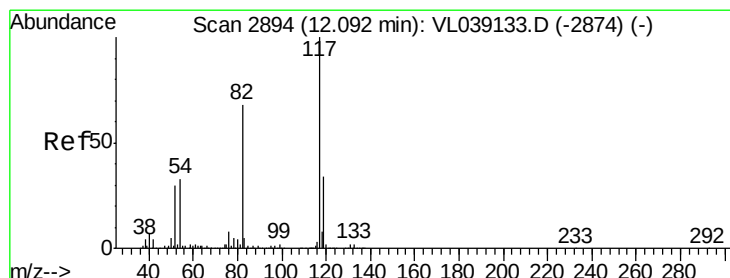
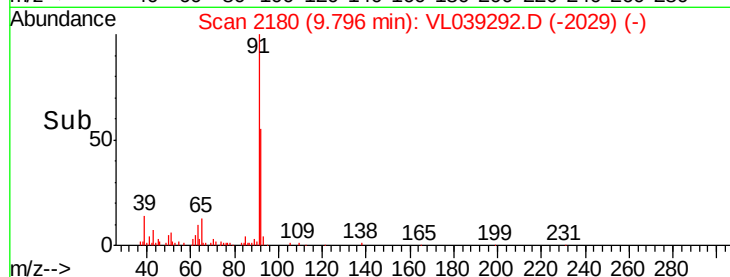
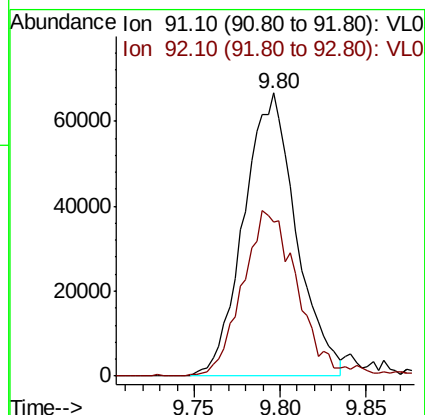
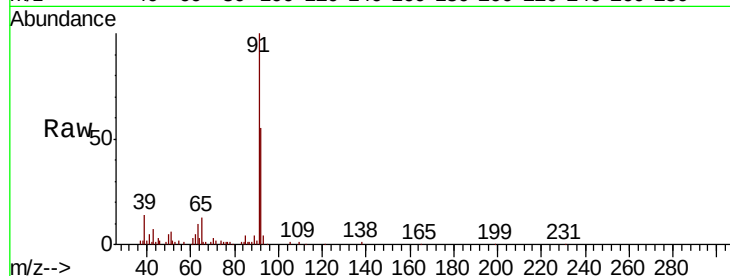
Acq: 15 Jun 2022 9:50

Tot Ion: 91 Resp: 141190

Ion Ratio Lower Upper

91 100

92 62.4 48.1 72.1



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.07 min Scan# 2888

Delta R.T. -0.02 min

Lab File: VL039292.D

Acq: 15 Jun 2022 9:50

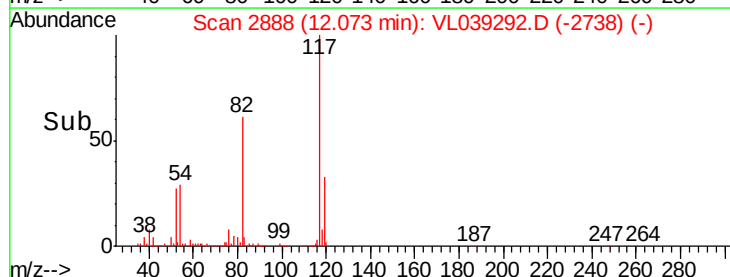
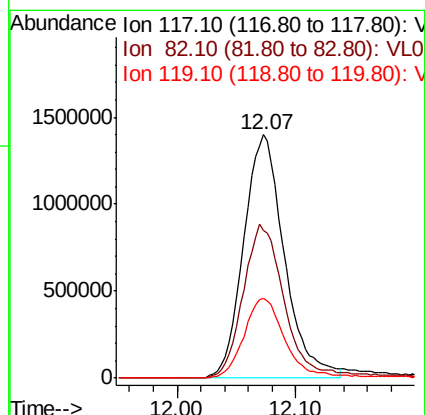
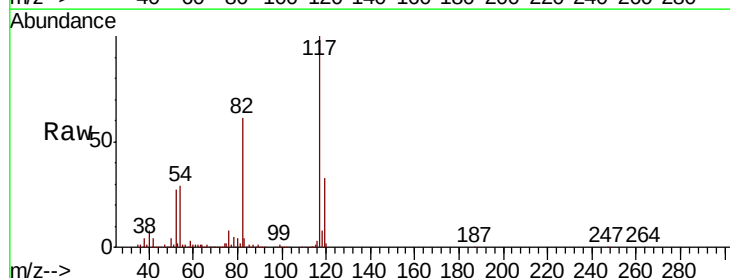
Tgt Ion: 117 Resp: 3310729

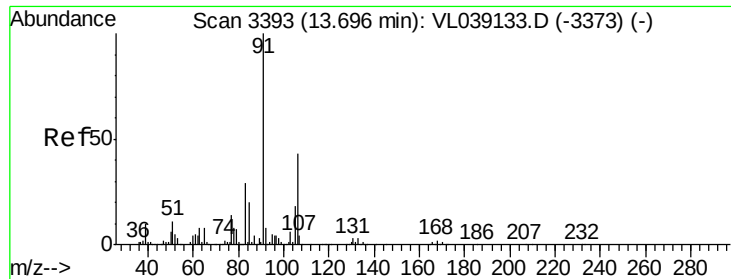
Ion Ratio Lower Upper

117 100

82 66.8 55.1 82.7

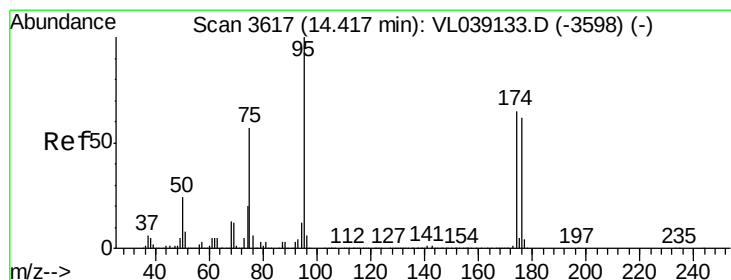
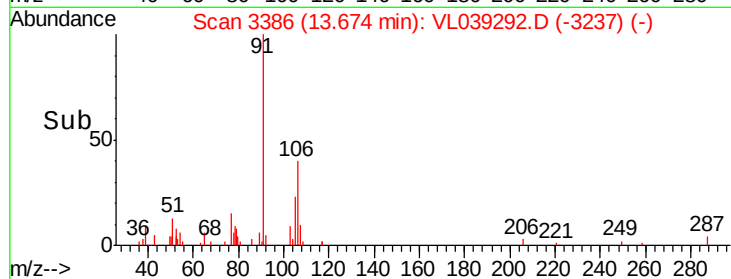
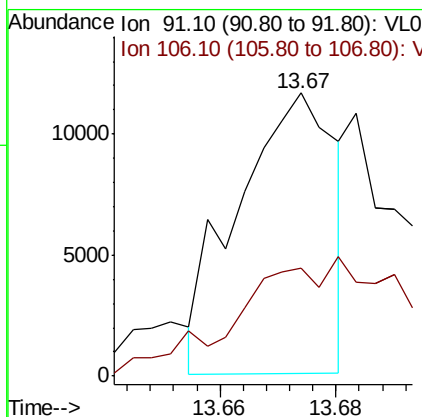
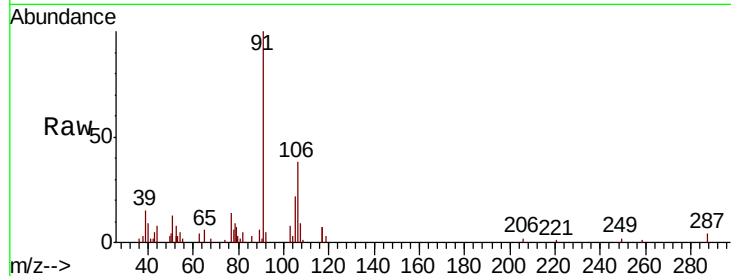
119 34.0 24.7 37.1





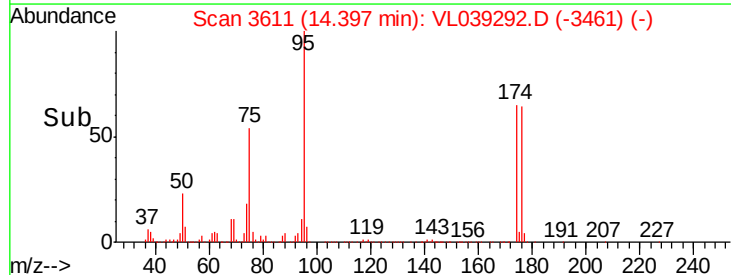
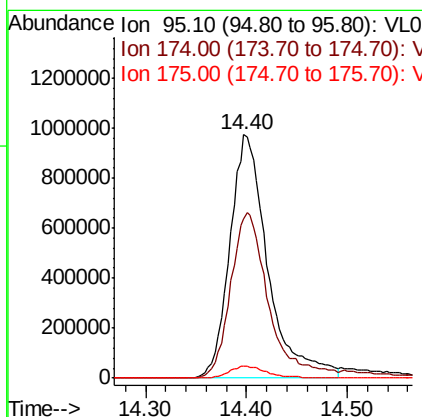
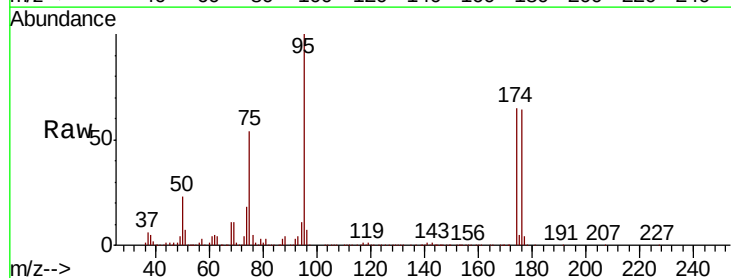
#60
o-Xylene
Concen: 0.036 ppbv
RT: 13.67
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 15 Jun 2022 9:50

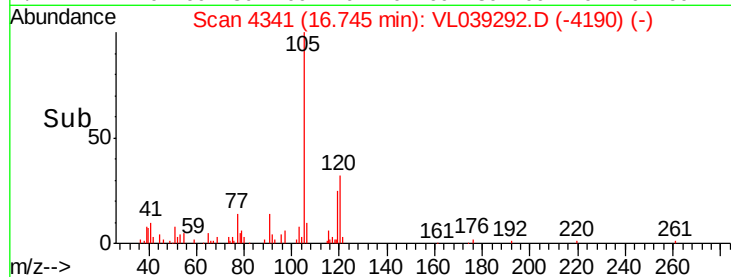
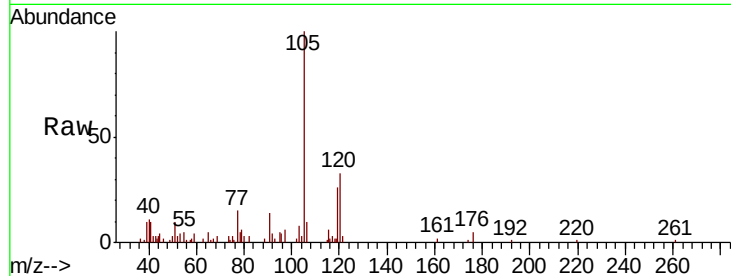
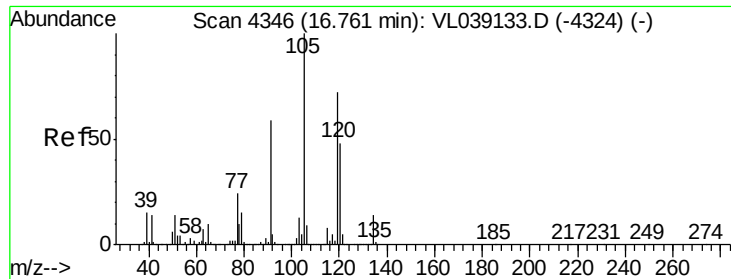
Tot Ion: 91 Resp: 13558
Ion Ratio Lower Upper
91 100
106 0.0 22.3 66.9#



#68
1-Bromo-4-Fluorobenzene
Concen: 9.320 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. -0.02 min
Lab File: VL039292.D
Acq: 15 Jun 2022 9:50

Tgt Ion: 95 Resp: 2551022
Ion Ratio Lower Upper
95 100
174 72.2 53.8 80.8
175 4.9 4.1 6.1





#74

1,2,4-Trimethylbenzene

Concen: 0.043 ppbv

RT: 16.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 15 Jun 2022 9:30

Tot Ion:	105	Resp:	19199
Ion	Ratio	Lower	Upper
105	100		
120	26.3	38.1	57.1#
91	12.6	47.4	71.0#
77	13.5	19.5	29.3#

