

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062722\
 Data File : VL039379.D
 Acq On : 28 Jun 2022 5:07
 Operator : SY/AP
 Sample : N3508-01DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1-20220624DUP

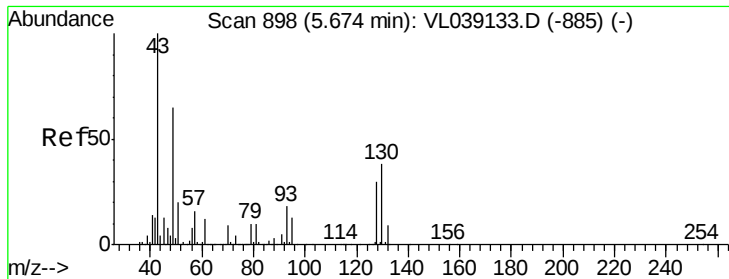
Quant Time: Jun 28 06:38:34 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Jun 01 01:22:18 2022
 QLast Update : Wed Jun 01 01:22:18 2022
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	1059314	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	2995715	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.07	117	2635626	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.40	95	1976597	9.07	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	90.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.04	85	27488	0.148	ppbv	98
3) Chlorodifluoromethane	2.98	51	68704	0.510	ppbv #	86
4) Chloromethane	3.13	50	78744	1.137	ppbv	97
7) Chloroethane	3.55	64	1479	0.066	ppbv #	45
9) Propene	3.00	41	11079	0.189	ppbv #	79
11) Trichlorofluoromethane	3.94	101	33713	0.200	ppbv	90
12) 1,1,2-Trichlorotrifluoroet	4.48	101	7264	0.065	ppbv #	81
13) Ethanol	3.60	45	164521	51.330	ppbv #	100
15) Acetone	3.84	43	1722006	15.605	ppbv	99
19) Isopropyl Alcohol	3.96	45	55487	1.072	ppbv #	93
20) Methylene Chloride	4.34	84	216180	4.649	ppbv	93
23) Vinyl Acetate	5.06	43	143306	1.570	ppbv #	86
25) Ethyl Acetate	5.67	43	41682	0.168	ppbv #	78
26) Hexane	5.68	57	128998	1.180	ppbv #	44
29) Chloroform	5.74	83	55239	0.300	ppbv	98
30) Cyclohexane	7.12	84	4574	0.050	ppbv #	1
34) 2-Butanone	5.24	43	217791	1.338	ppbv	99
35) Carbon Tetrachloride	7.01	117	7914	0.036	ppbv #	86
36) Benzene	6.88	78	19632	0.081	ppbv	95
39) 1,2-Dichloropropane	7.17	63	730581	7.552	ppbv #	25
44) 2,2,4-Trimethylpentane	7.86	57	24938	0.059	ppbv #	43
53) Toluene	9.80	91	128116	0.457	ppbv	99
60) o-Xylene	13.68	91	19312	0.064	ppbv	80

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



#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

Delta R.T.

Lab File: ClientSampleId:

Acq: 28 Jun 2022 5:07

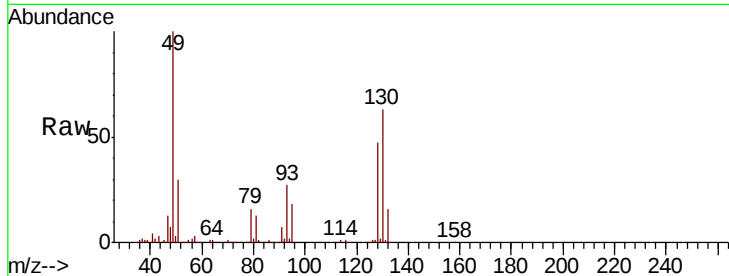
Tot Ion: 49 Resp: 1059314

Ion Ratio Lower Upper

49 100

128 54.1 24.7 74.1

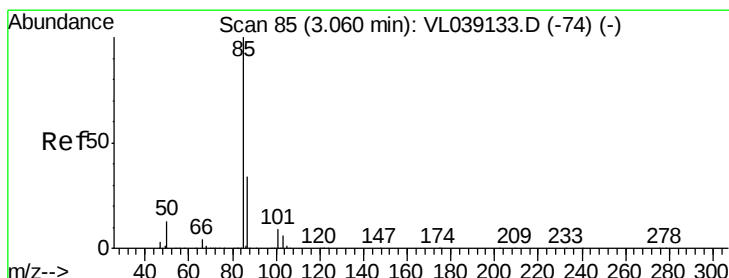
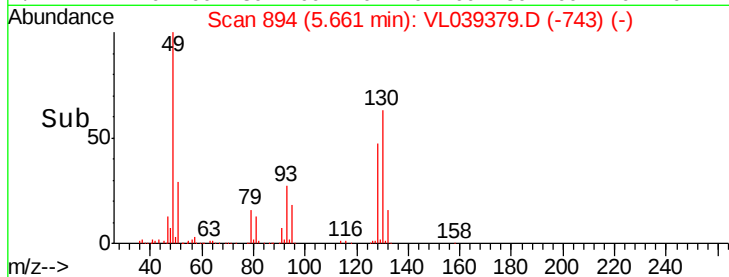
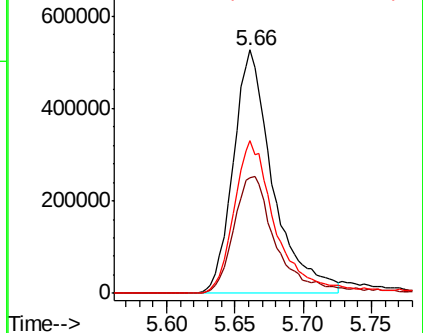
130 68.5 31.4 94.0



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: 0.148 ppbv

RT: 3.04 min Scan# 79

Delta R.T. -0.02 min

Lab File: VL039379.D

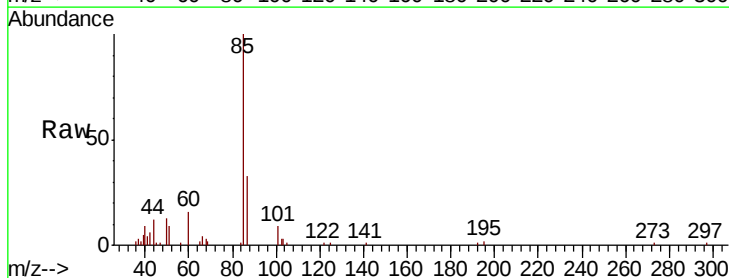
Acq: 28 Jun 2022 5:07

Tgt Ion: 85 Resp: 27488

Ion Ratio Lower Upper

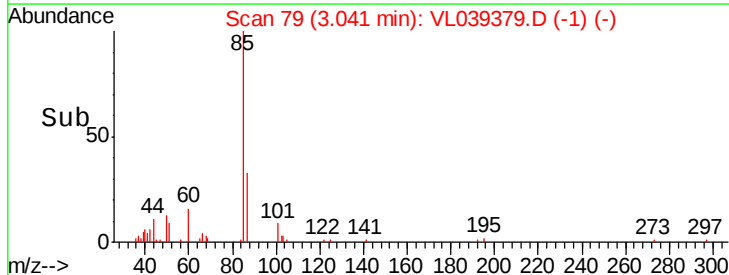
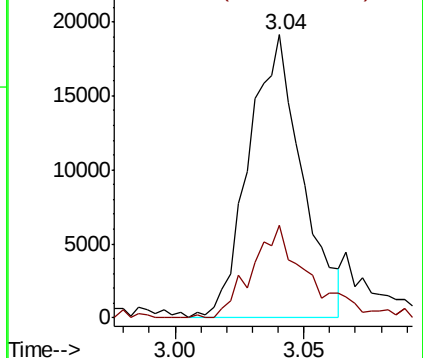
85 100

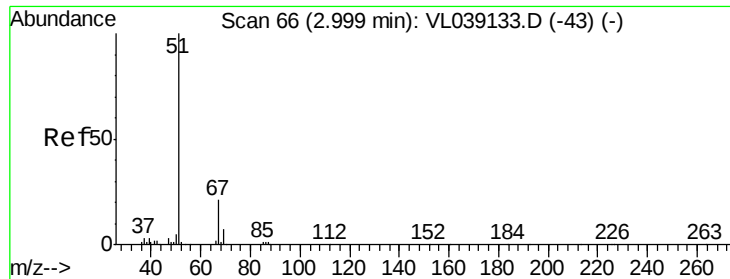
87 32.6 26.9 40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

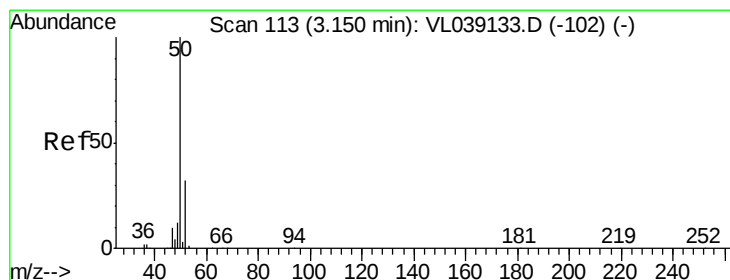
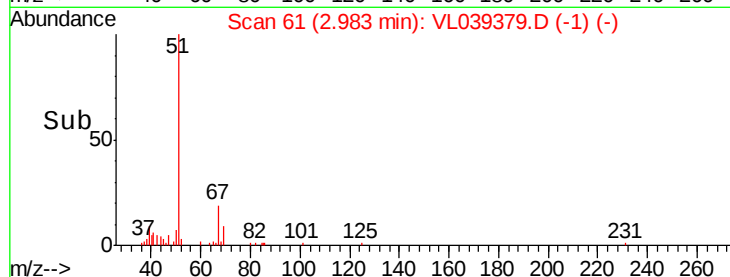
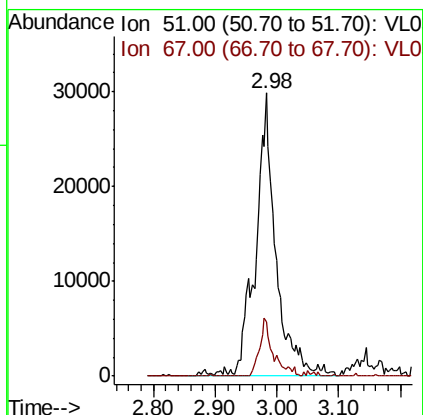
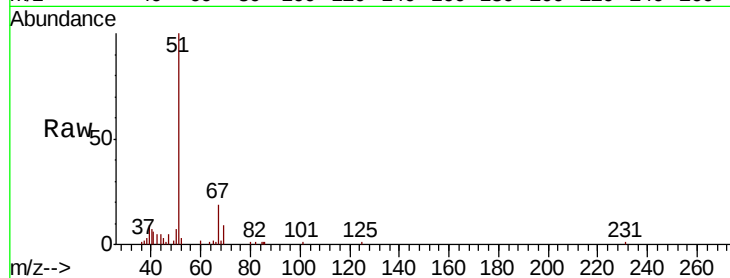
Ion 87.00 (86.70 to 87.70): VL0





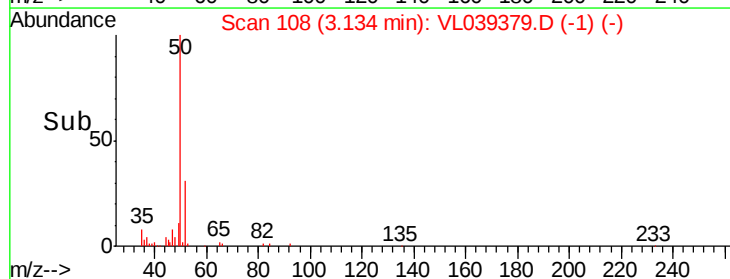
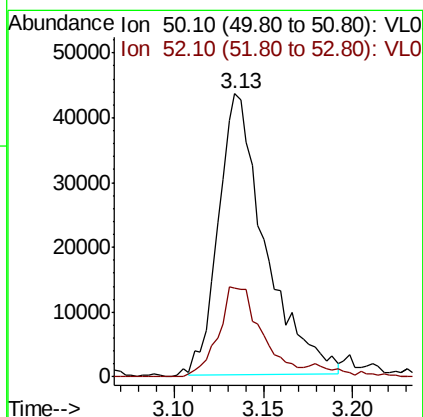
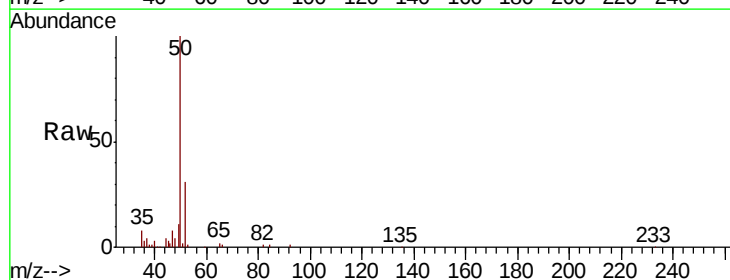
#3
 Chlorodifluoromethane
 Concen: 0.510 ppbv
 RT: 2.98
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 AA-1-20220624DUP
 Acq: 28 Jun 2022 5:07

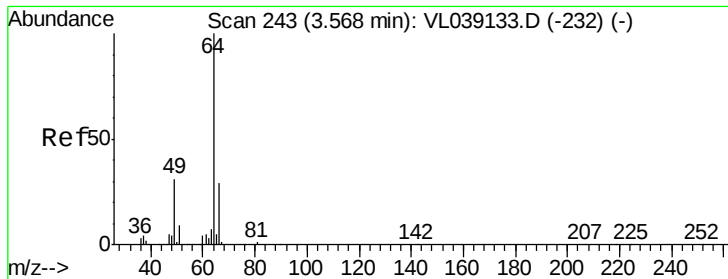
Tot Ion: 51 Resp: 68704
 Ion Ratio Lower Upper
 51 100
 67 13.7 16.2 24.4#



#4
 Chloromethane
 Concen: 1.137 ppbv
 RT: 3.13 min Scan# 108
 Delta R.T. -0.02 min
 Lab File: VL039379.D
 Acq: 28 Jun 2022 5:07

Tgt Ion: 50 Resp: 78744
 Ion Ratio Lower Upper
 50 100
 52 30.5 25.9 38.9





#7

Chloroethane

Concen: 0.066 ppbv

RT: 3.55 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: AA-1-20220624DUP

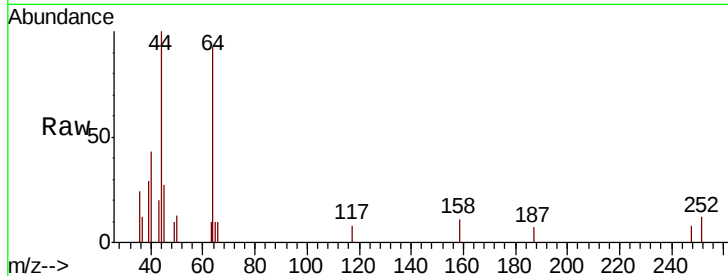
Acq: 28 Jun 2022 5:07

Tot Ion: 64 Resp: 1479

Ion Ratio Lower Upper

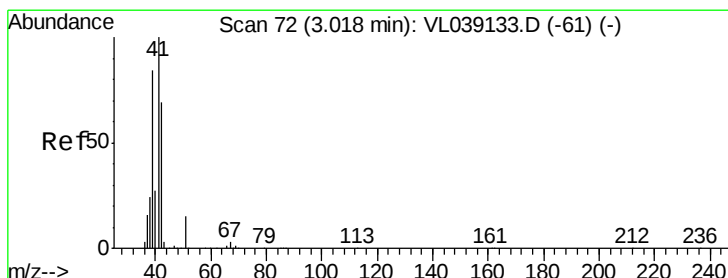
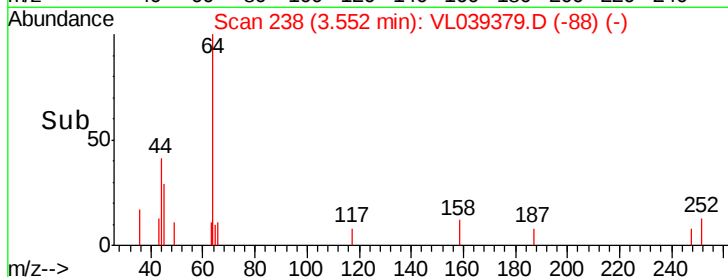
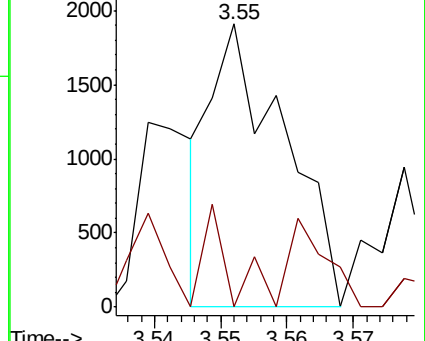
64 100

66 0.0 23.6 35.4#



Abundance Ion 64.10 (63.80 to 64.80): VL0

Ion 66.10 (65.80 to 66.80): VL0



#9

Propene

Concen: 0.189 ppbv

RT: 3.00 min Scan# 66

Delta R.T. -0.02 min

Lab File: VL039379.D

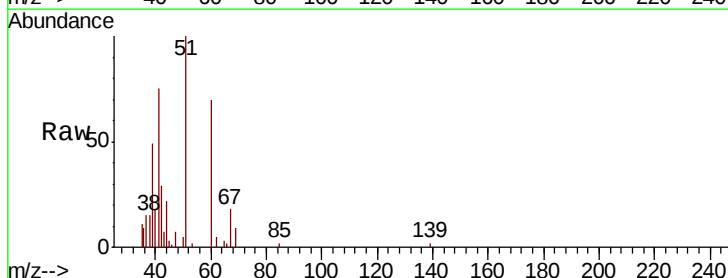
Acq: 28 Jun 2022 5:07

Tgt Ion: 41 Resp: 11079

Ion Ratio Lower Upper

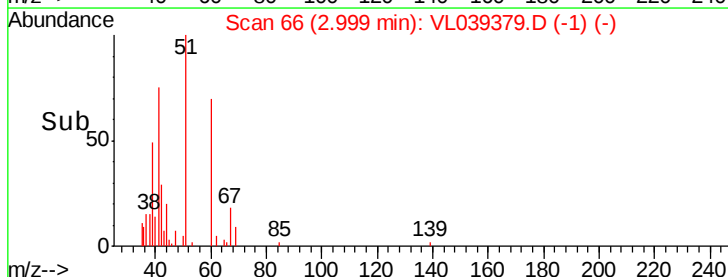
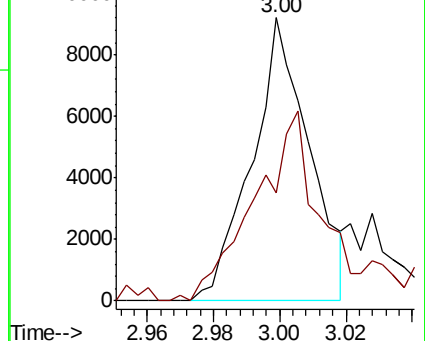
41 100

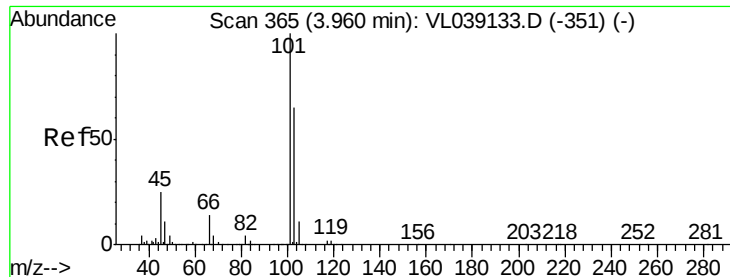
42 86.7 55.4 83.2#



Abundance Ion 41.10 (40.80 to 41.80): VL0

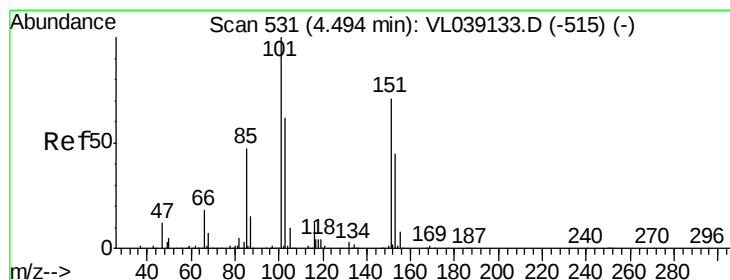
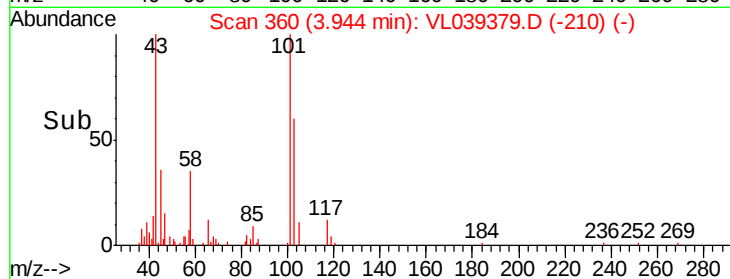
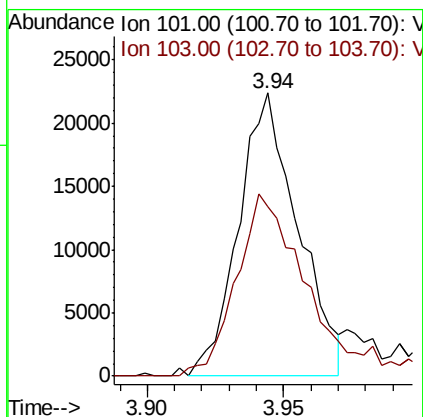
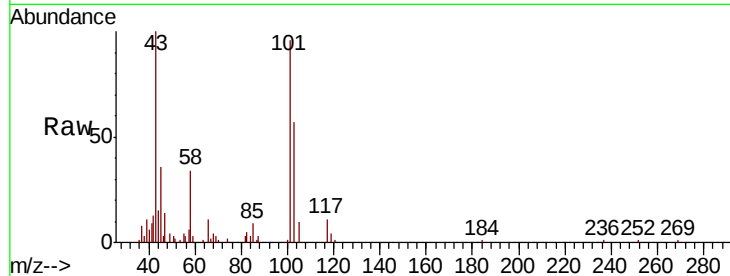
Ion 42.10 (41.80 to 42.80): VL0





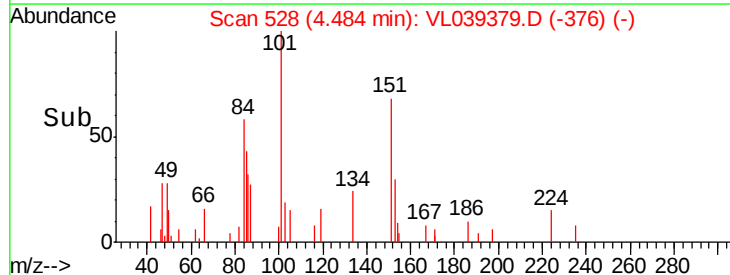
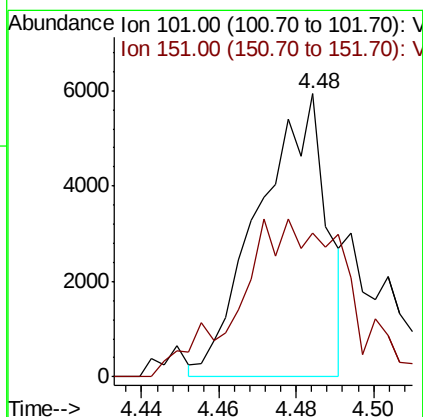
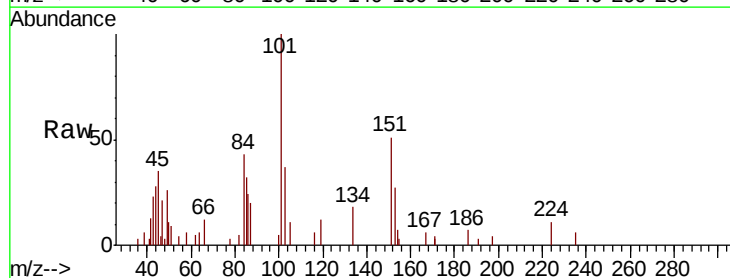
#11
 Trichlorofluoromethane
 Concen: 0.200 ppbv
 RT: 3.94 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Jun 2022 5:07

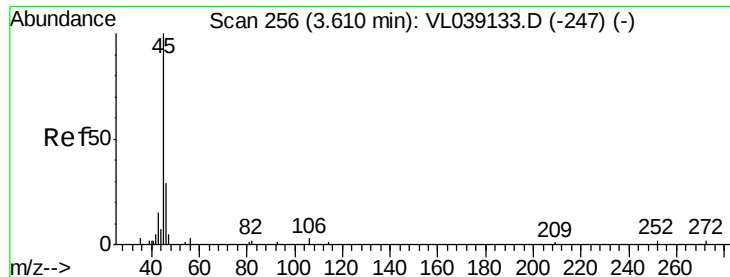
Tot Ion:101 Resp: 33713
 Ion Ratio Lower Upper
 101 100
 103 56.7 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.065 ppbv
 RT: 4.48 min Scan# 528
 Delta R.T. -0.01 min
 Lab File: VL039379.D
 Acq: 28 Jun 2022 5:07

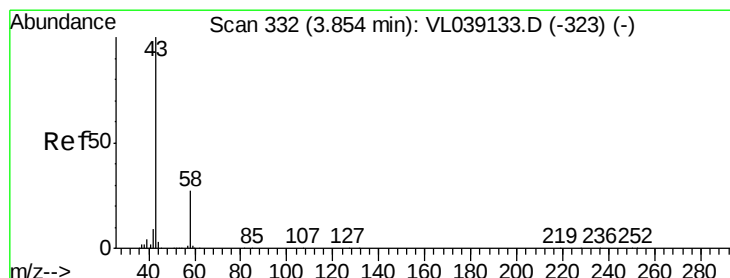
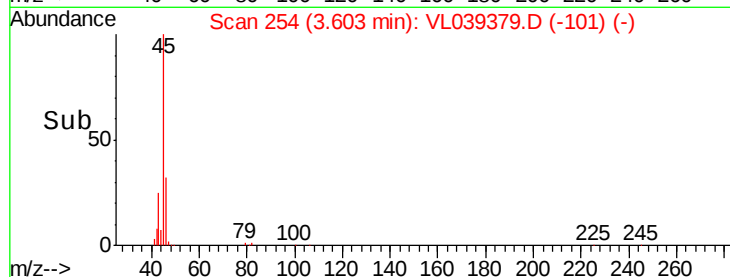
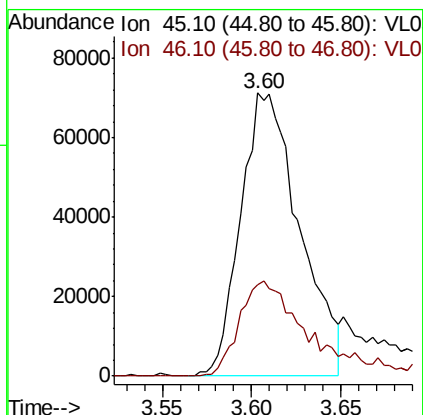
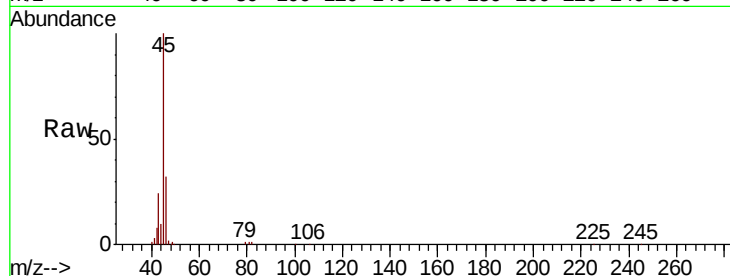
Tgt Ion:101 Resp: 7264
 Ion Ratio Lower Upper
 101 100
 151 90.3 59.4 89.0#





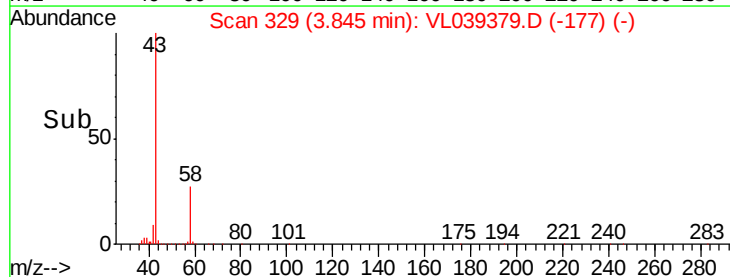
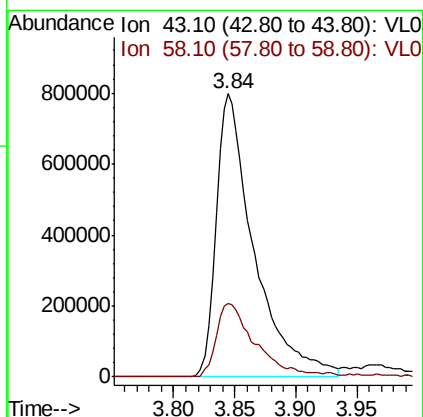
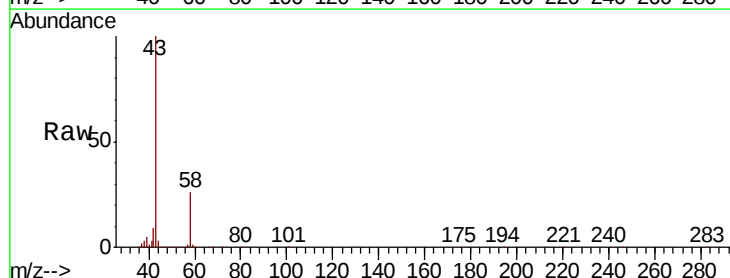
#13
Ethanol
Concen: 51.330 ppbv
RT: 3.60
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jun 2022 5:07

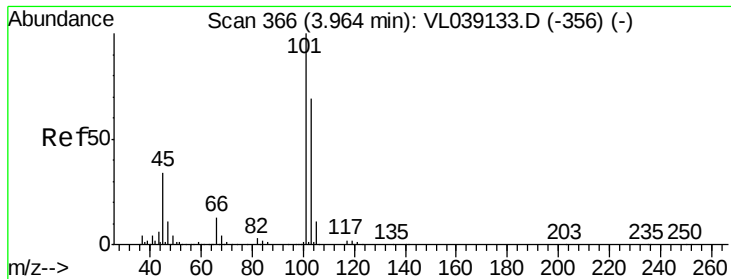
Tot Ion: 45 Resp: 164521
Ion Ratio Lower Upper
45 100
46 42.1 0.0 0.0#



#15
Acetone
Concen: 15.605 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

Tgt Ion: 43 Resp: 1722006
Ion Ratio Lower Upper
43 100
58 28.7 22.5 33.7





#19

Isopropyl Alcohol

Concen: 1.072 ppbv

RT: 3.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

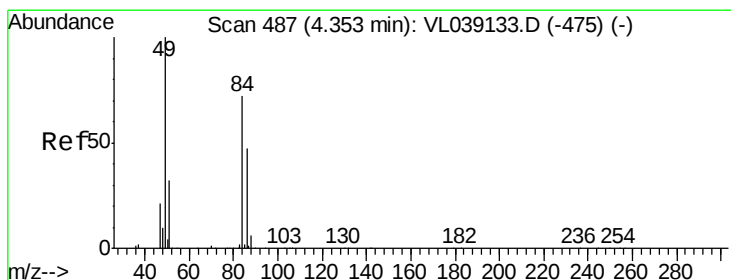
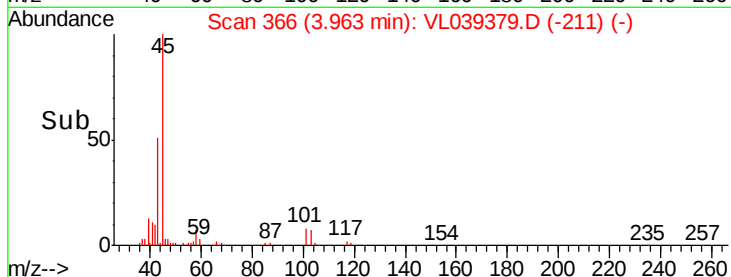
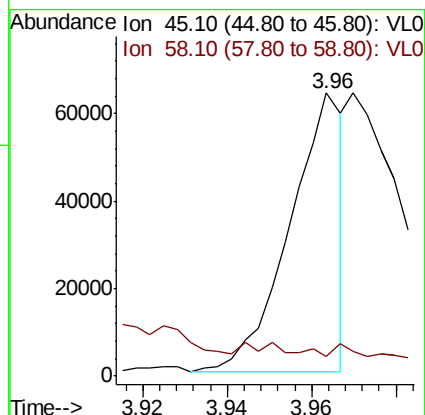
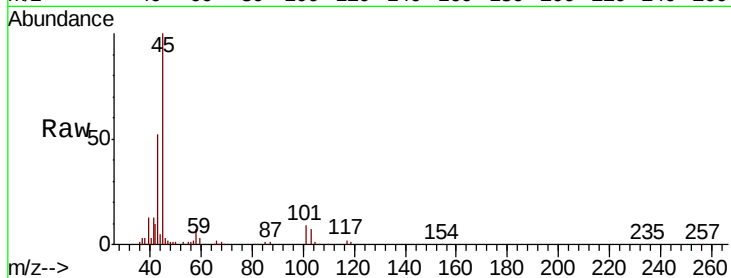
Acq: 28 Jun 2022 5:07

Tot Ion: 45 Resp: 55487

Ion Ratio Lower Upper

45 100

58 0.0 1.8 2.8#



#20

Methylene Chloride

Concen: 4.649 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL039379.D

Acq: 28 Jun 2022 5:07

Tgt Ion: 84 Resp: 216180

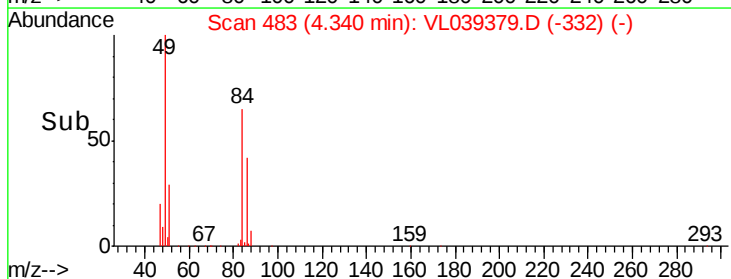
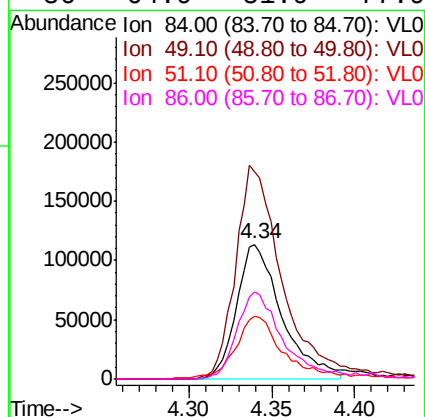
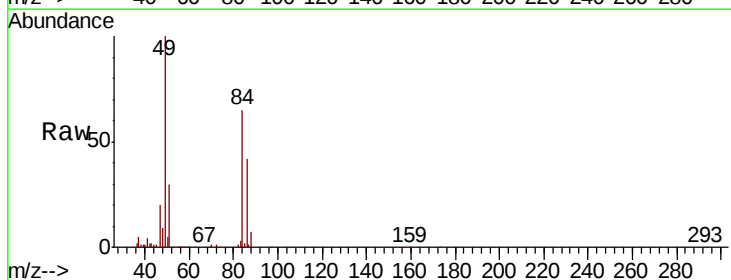
Ion Ratio Lower Upper

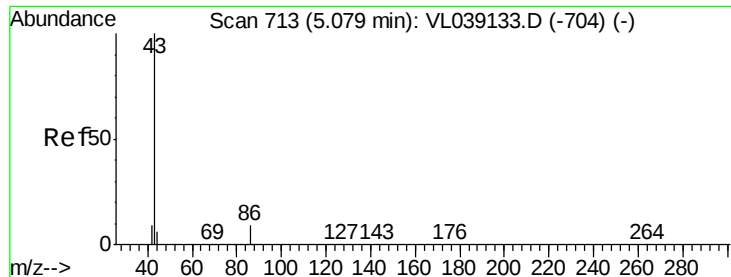
84 100

49 153.1 111.1 166.7

51 44.8 35.3 52.9

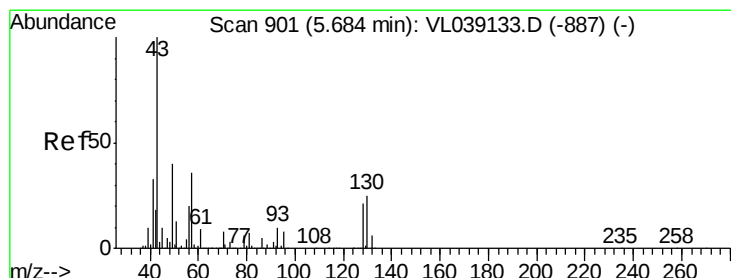
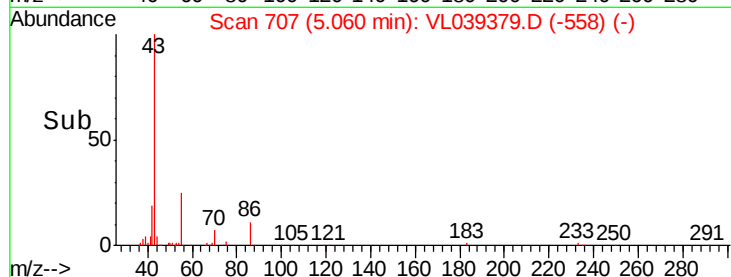
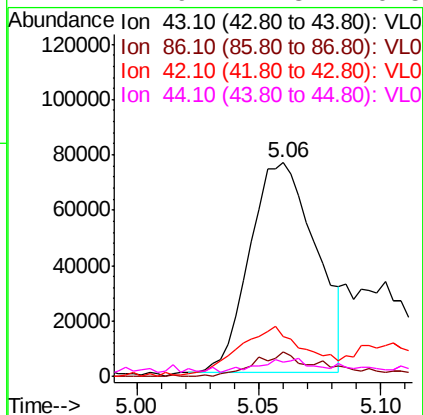
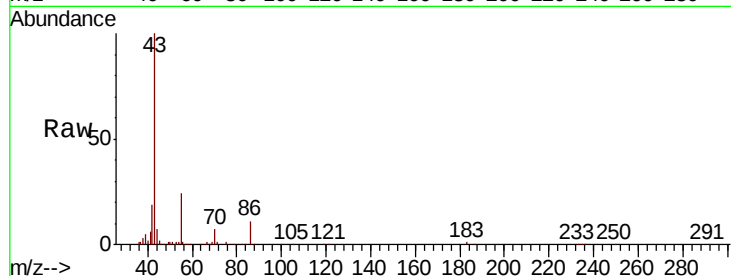
86 64.9 51.9 77.9





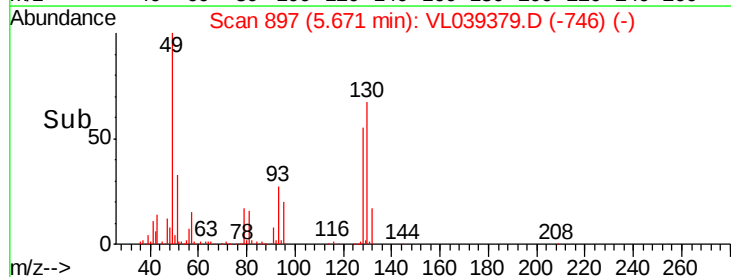
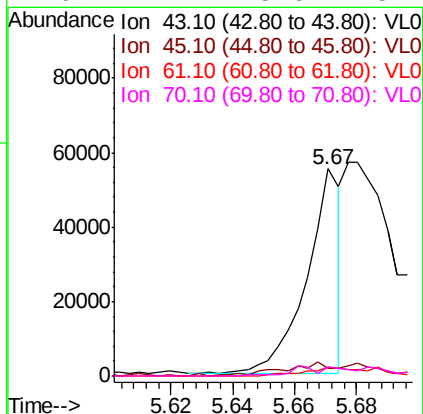
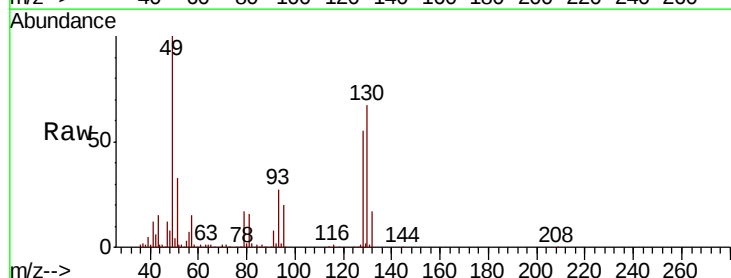
#23
 Vinyl Acetate
 Concen: 1.570 ppbv
 RT: 5.06
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 28 Jun 2022 5:07

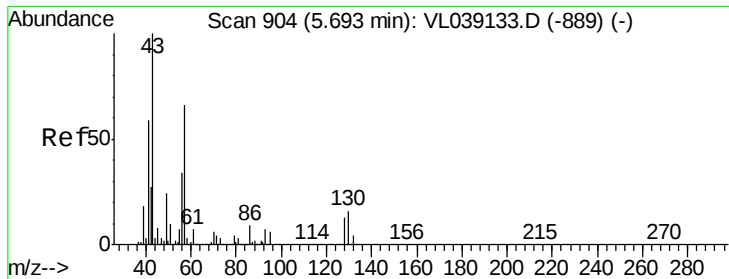
Tot Ion:	43	Resp:	143306
Ion	Ratio	Lower	Upper
43	100		
86	11.5	6.0	9.0#
42	17.7	8.2	12.4#
44	2.9	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 0.168 ppbv
 RT: 5.67 min Scan# 897
 Delta R.T.: -0.01 min
 Lab File: VL039379.D
 Acq: 28 Jun 2022 5:07

Tgt Ion:	43	Resp:	41682
Ion	Ratio	Lower	Upper
43	100		
45	18.4	8.2	12.2#
61	0.0	8.4	12.6#
70	12.1	5.6	8.4#





#26

Hexane

Concen: 1.180 ppbv

RT: 5.68 Instrument:

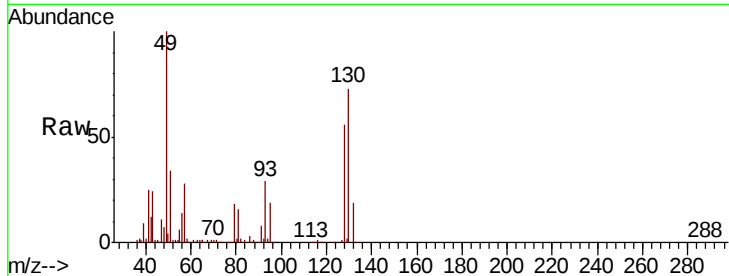
Delta R.T. MSVOA_1

Lab File: ClientSampleId:

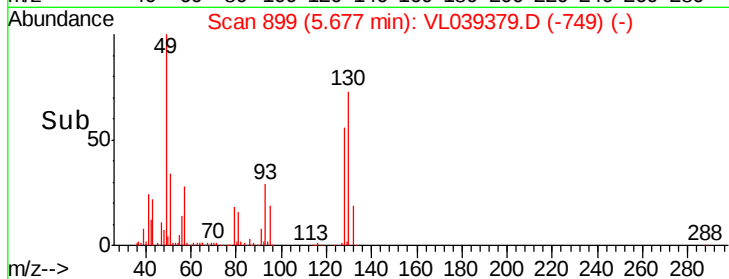
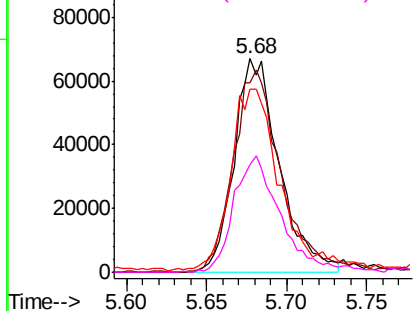
Acq: 28 Jun 2022 5:07

Tot Ion: 57 Resp: 128998

Ion	Ratio	Lower	Upper
57	100		
41	102.9	72.4	108.6
43	95.4	187.0	280.6#
56	57.1	41.8	62.6



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



#29

Chloroform

Concen: 0.300 ppbv

RT: 5.74 min Scan# 919

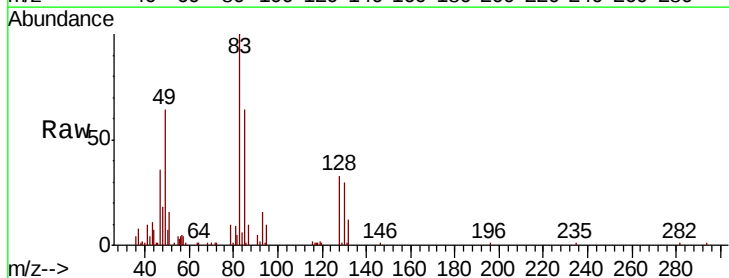
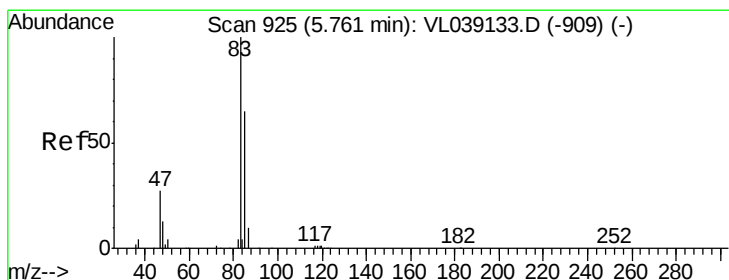
Delta R.T. -0.02 min

Lab File: VL039379.D

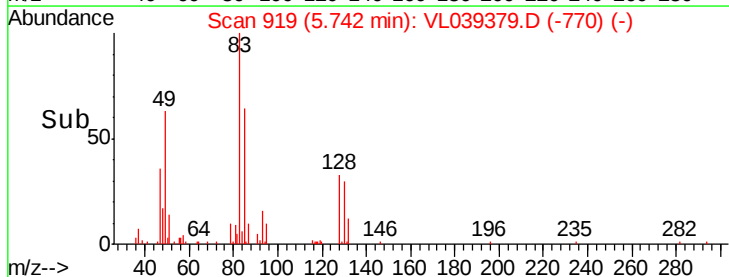
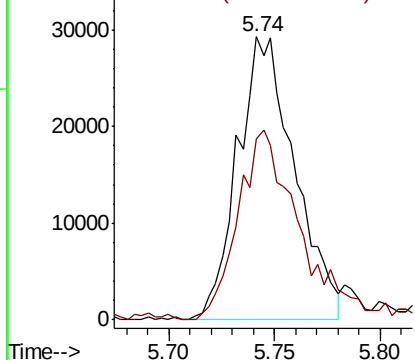
Acq: 28 Jun 2022 5:07

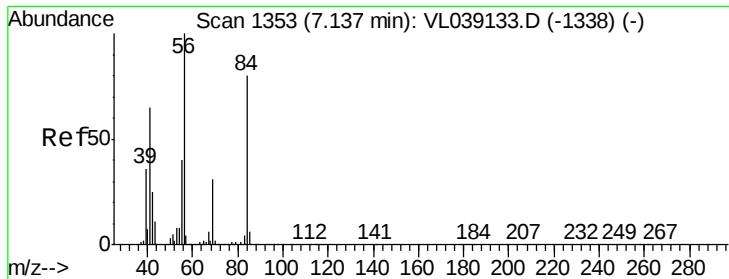
Tgt Ion: 83 Resp: 55239

Ion	Ratio	Lower	Upper
83	100		
85	64.1	52.4	78.6



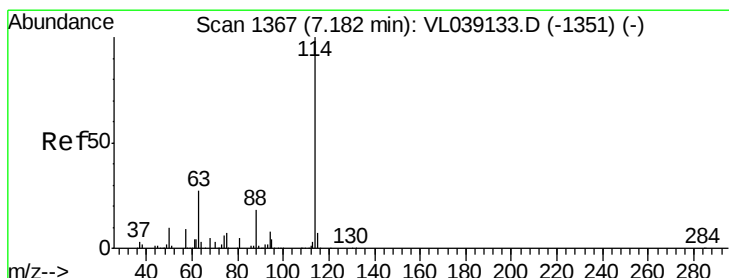
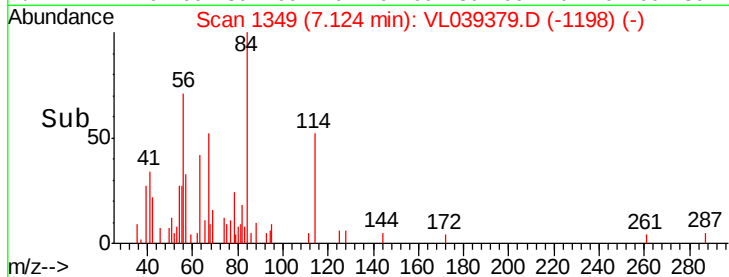
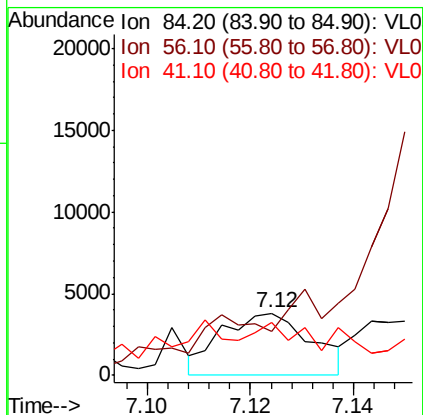
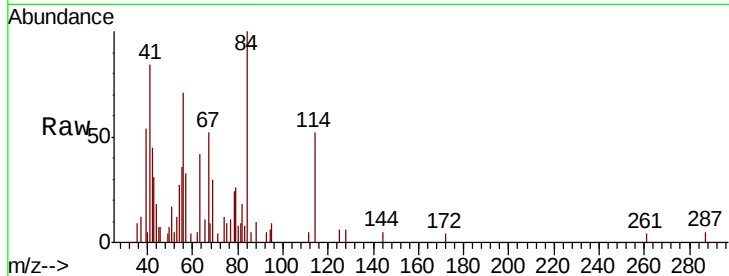
Abundance Ion 83.00 (82.70 to 83.70): VL0
Ion 85.00 (84.70 to 85.70): VL0





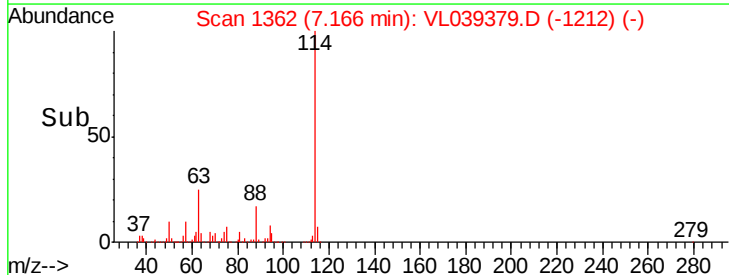
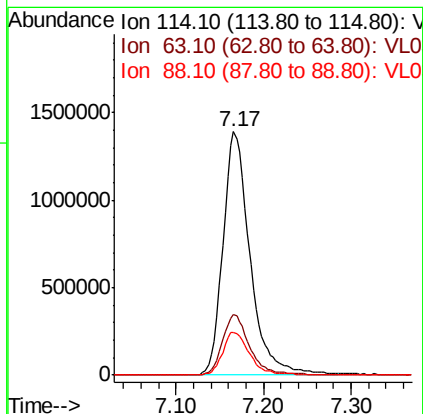
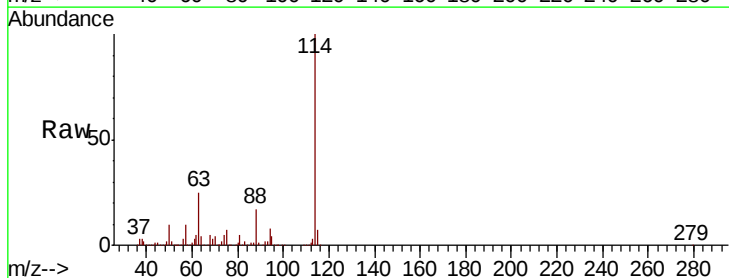
#30
Cvclohexane
Concen: 0.050 ppbv
RT: 7.12 min
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 28 Jun 2022 5:07

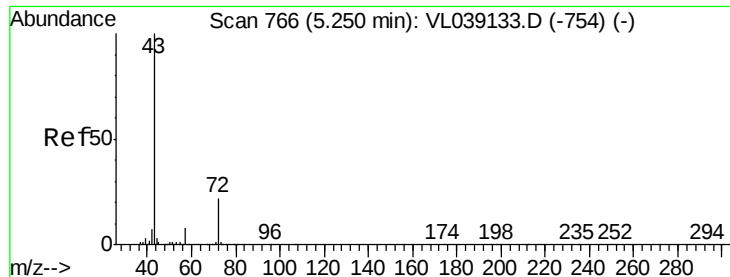
Tot Ion	84.20	Resp	4574
Ion Ratio	Lower	Upper	
84	100		
56	0.0	110.6	165.8#
41	0.0	68.9	103.3#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.02 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

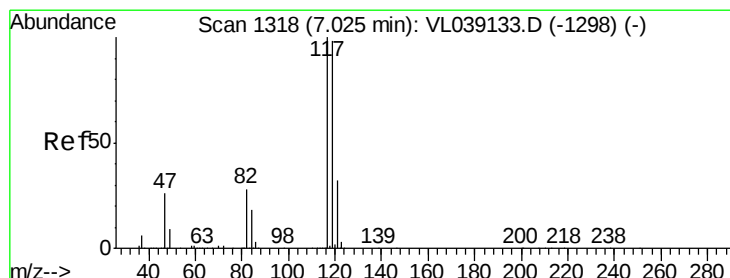
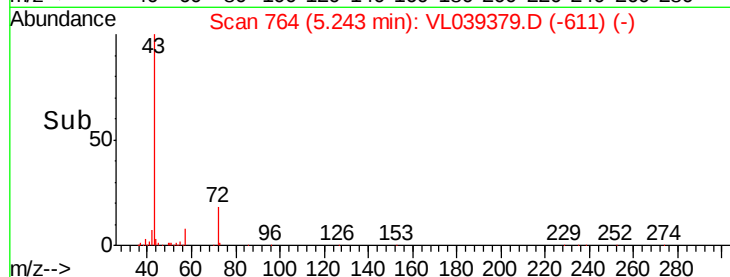
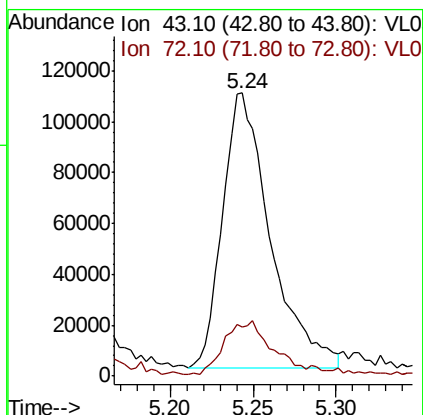
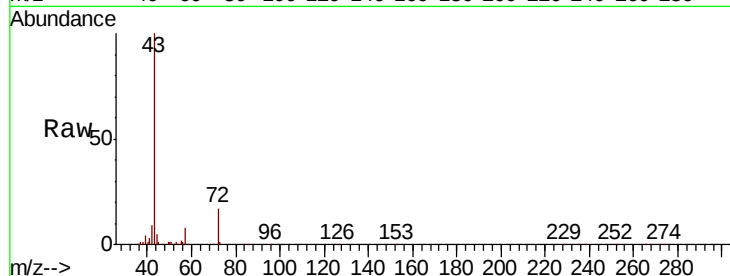
Tgt Ion	114	Resp	2995715
Ion Ratio	Lower	Upper	
114	100		
63	25.3	21.7	32.5
88	17.9	14.8	22.2





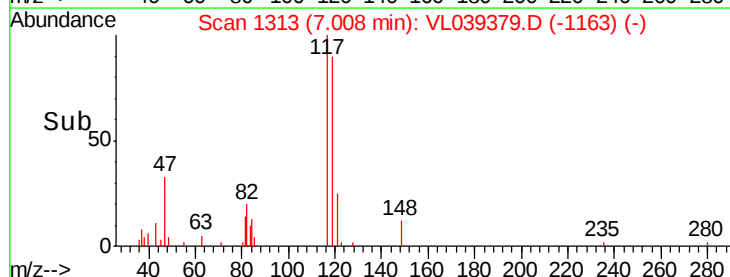
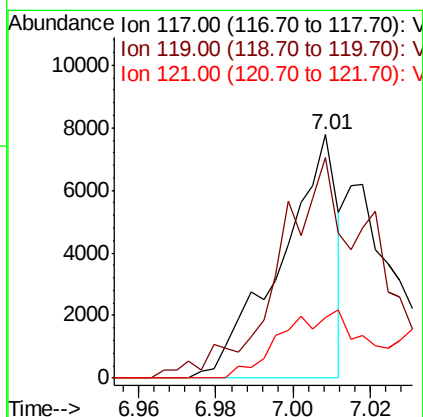
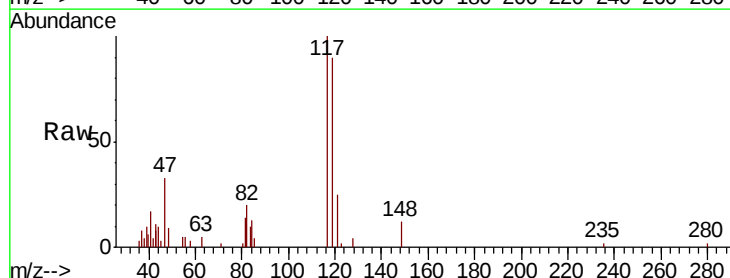
#34
 2-Butanone
 Concen: 1.338 ppbv
 RT: 5.24
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 28 Jun 2022 5:07

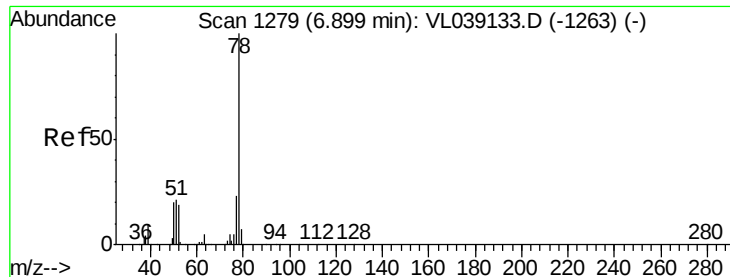
Tot Ion: 43 Resp: 217791
 Ion Ratio Lower Upper
 43 100
 72 23.4 18.2 27.2



#35
 Carbon Tetrachloride
 Concen: 0.036 ppbv
 RT: 7.01 min Scan# 1313
 Delta R.T. -0.02 min
 Lab File: VL039379.D
 Acq: 28 Jun 2022 5:07

Tgt Ion: 117 Resp: 7914
 Ion Ratio Lower Upper
 117 100
 119 83.6 78.6 118.0
 121 25.0 25.4 38.0#

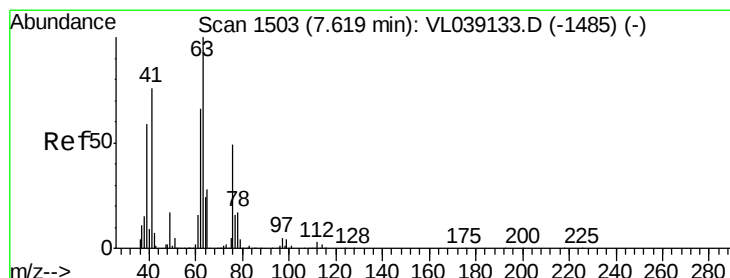
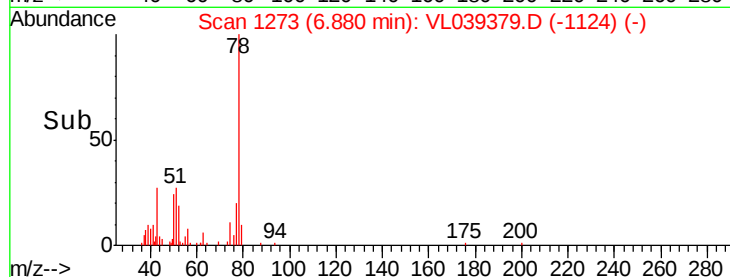
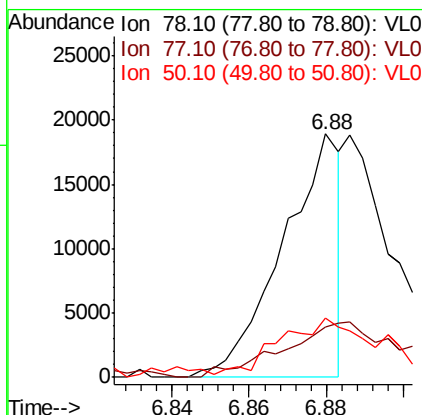
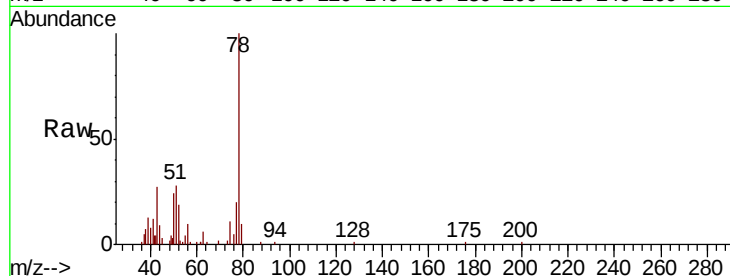




#36
Benzene
Concen: 0.081 ppbv
RT: 6.88
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 28 Jun 2022 5:07

Tot Ion: 78 Resp: 19632

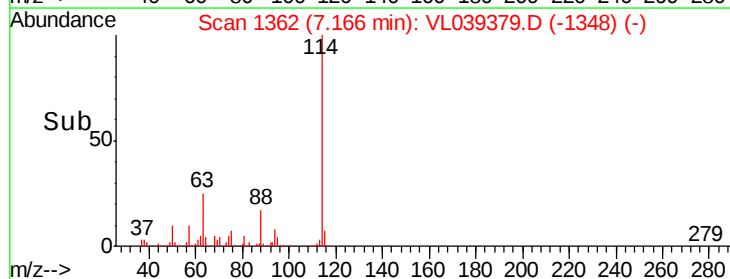
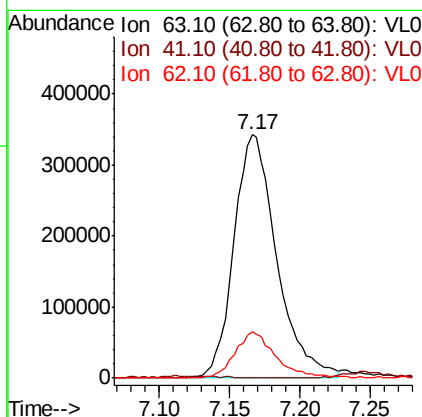
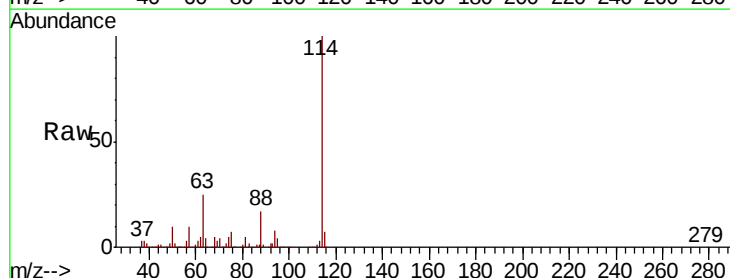
Ion	Ratio	Lower	Upper
78	100		
77	20.4	18.6	27.8
50	21.8	15.8	23.8

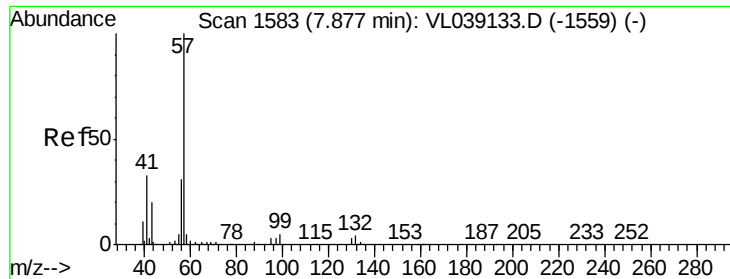


#39
1,2-Dichloropropane
Concen: 7.552 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.45 min
Lab File: VL039379.D
Acq: 28 Jun 2022 5:07

Tgt Ion: 63 Resp: 730581

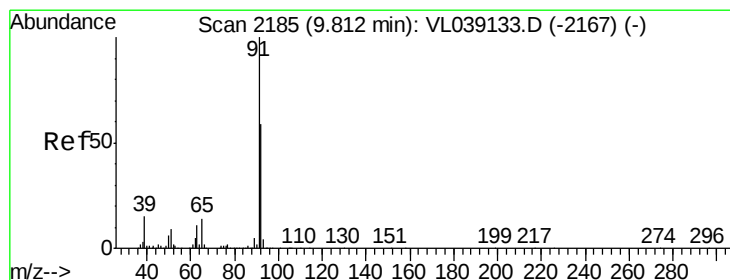
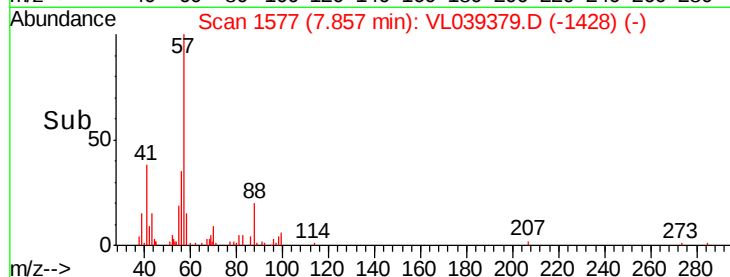
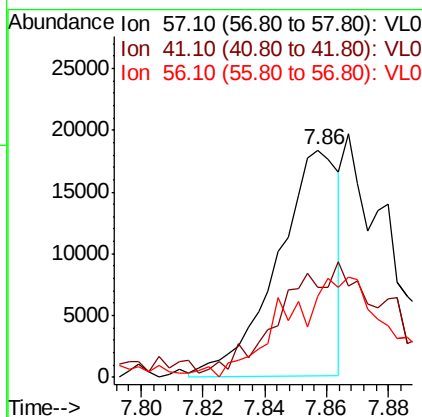
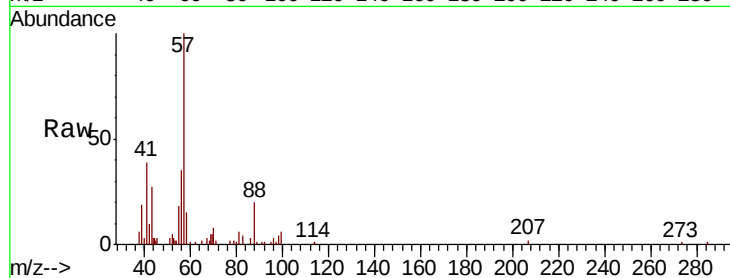
Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	19.2	52.9	79.3#





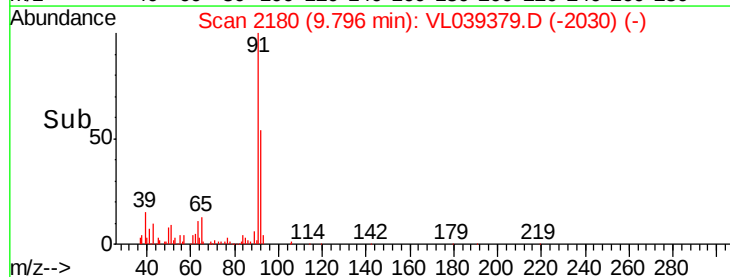
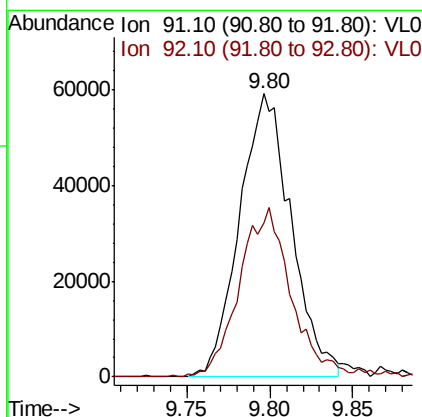
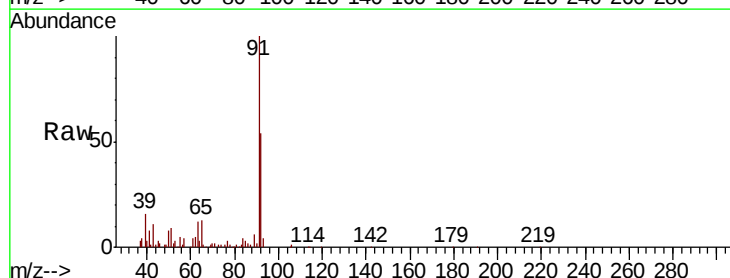
#44
 2,2,4-Trimethylpentane
 Concen: 0.059 ppbv
 RT: 7.86
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId:
 AA-1-20220624DUP
 Acq: 28 Jun 2022 5:07

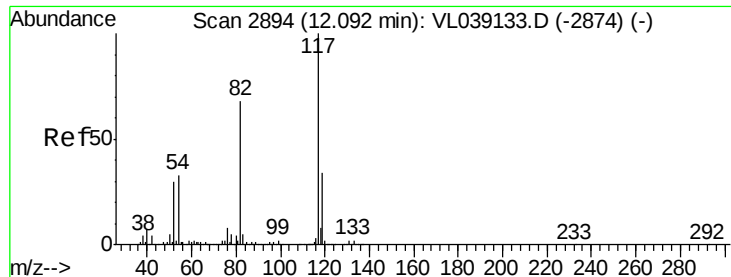
Tot Ion: 57 Resp: 24938
 Ion Ratio Lower Upper
 57 100
 41 0.0 26.2 39.4#
 56 0.0 24.7 37.1#



#53
 Toluene
 Concen: 0.457 ppbv
 RT: 9.80 min Scan# 2180
 Delta R.T. -0.02 min
 Lab File: VL039379.D
 Acq: 28 Jun 2022 5:07

Tgt Ion: 91 Resp: 128116
 Ion Ratio Lower Upper
 91 100
 92 60.8 48.1 72.1

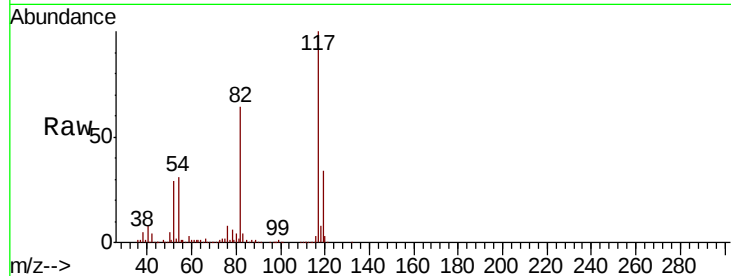




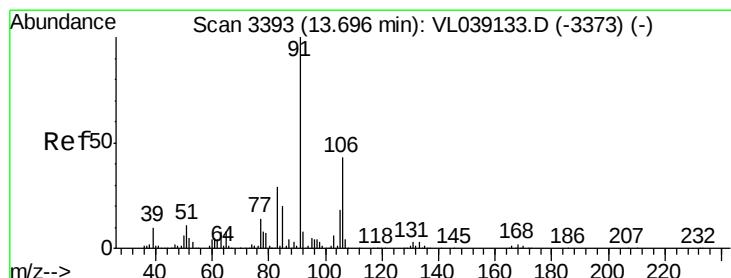
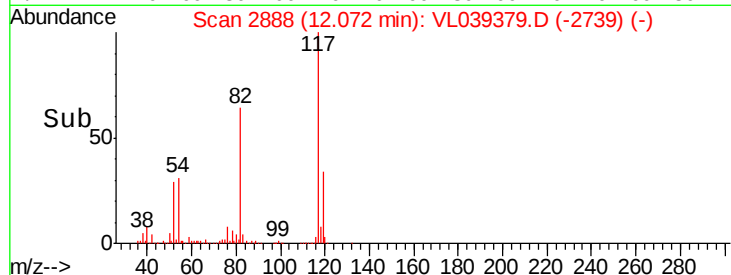
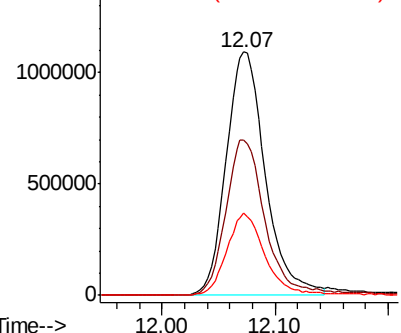
#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.07 min
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 AA-1-20220624DUP
 Acq: 28 Jun 2022 5:07

Tot Ion: 117 Resp: 2635626

Ion	Ratio	Lower	Upper
117	100		
82	65.8	55.1	82.7
119	33.5	24.7	37.1



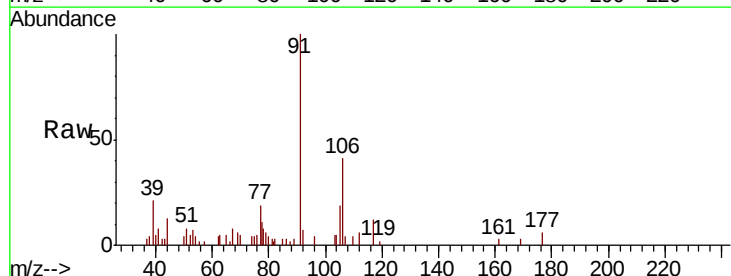
Abundance Ion 117.10 (116.80 to 117.80): V
 Ion 82.10 (81.80 to 82.80): VL0
 Ion 119.10 (118.80 to 119.80): V



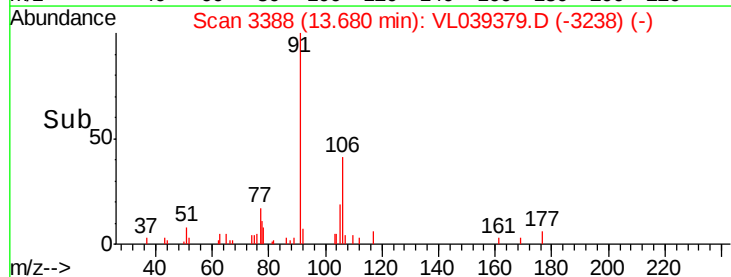
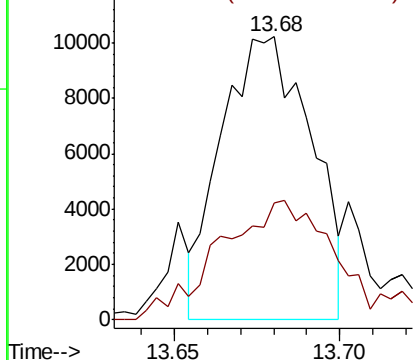
#60
 o-Xylene
 Concen: 0.064 ppbv
 RT: 13.68 min Scan# 3388
 Delta R.T.: -0.02 min
 Lab File: VL039379.D
 Acq: 28 Jun 2022 5:07

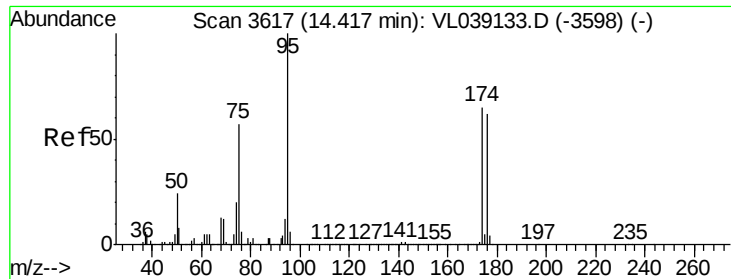
Tgt Ion: 91 Resp: 19312

Ion	Ratio	Lower	Upper
91	100		
106	57.4	22.3	66.9



Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 106.10 (105.80 to 106.80): V





#68

1-Bromo-4-Fluorobenzene

Concen: 9.071 ppbv

RT: 14.40 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 28 Jun 2022 3.07

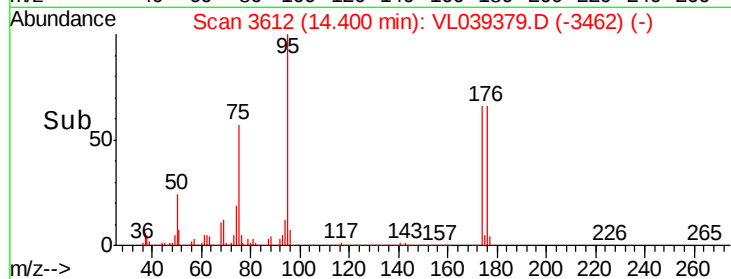
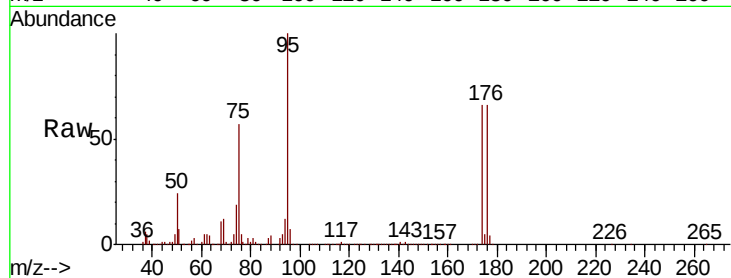
Tot Ion: 95 Resp: 1976597

Ion Ratio Lower Upper

95 100

174 70.5 53.8 80.8

175 5.5 4.1 6.1



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

