

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062422\
 Data File : VL039352.D
 Acq On : 24 Jun 2022 22:26
 Operator : SY/AP
 Sample : N3453-07
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3

Quant Time: Jun 27 01:52:00 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	1113464	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	3083446	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.08	117	2668834	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.40	95	2014414	9.13	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.30%

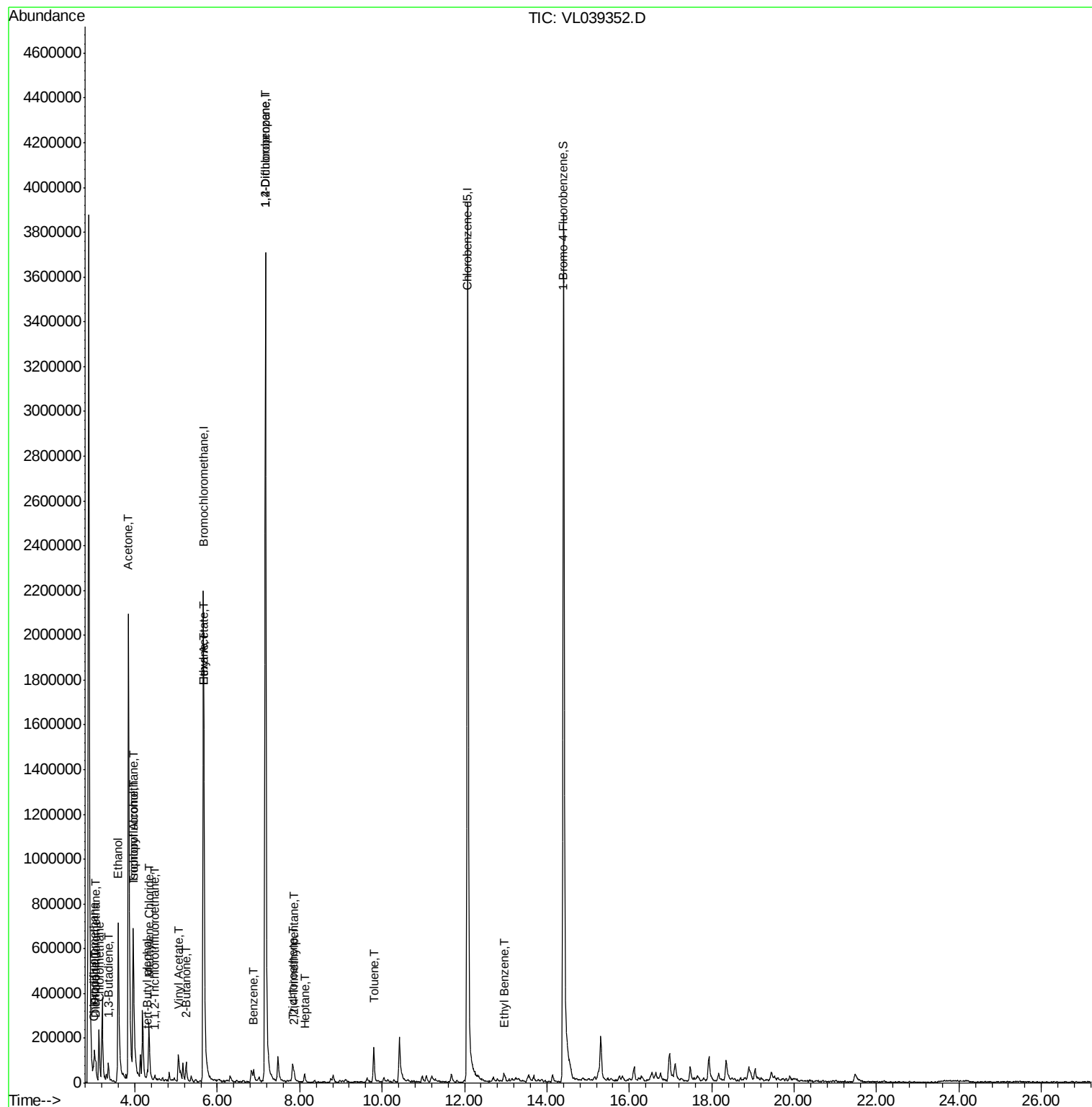
Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.05	85	48159	0.246 ppbv	98
3) Chlorodifluoromethane	2.99	51	71026	0.501 ppbv	92
4) Chloromethane	3.14	50	39342	0.541 ppbv	100
9) Propene	3.02	41	42869	0.694 ppbv	89
10) Heptane	8.12	43	12971	0.090 ppbv	90
11) Trichlorofluoromethane	3.95	101	24978	0.141 ppbv	88
12) 1,1,2-Trichlorotrifluoroet	4.49	101	4049	0.035 ppbv #	1
13) Ethanol	3.59	45	945701	280.709 ppbv #	100
15) Acetone	3.84	43	2707811	23.346 ppbv	97
16) 1,3-Butadiene	3.35	39	4974	0.080 ppbv #	49
17) tert-Butyl alcohol	4.29	59	4367	0.049 ppbv #	70
19) Isopropyl Alcohol	3.96	45	798554	14.679 ppbv #	95
20) Methylene Chloride	4.34	84	103002	2.107 ppbv	88
23) Vinyl Acetate	5.06	43	123923	1.291 ppbv #	89
25) Ethyl Acetate	5.68	43	81000	0.310 ppbv #	83
26) Hexane	5.68	57	61869	0.539 ppbv #	45
34) 2-Butanone	5.24	43	47704	0.285 ppbv #	53
36) Benzene	6.89	78	11962	0.048 ppbv	97
38) Trichloroethene	7.83	130	11949	0.104 ppbv	97
39) 1,2-Dichloropropane	7.17	63	755948	7.592 ppbv #	24
44) 2,2,4-Trimethylpentane	7.86	57	19746	0.045 ppbv #	19
53) Toluene	9.80	91	104731	0.363 ppbv	94
58) Ethyl Benzene	12.95	91	11714	0.032 ppbv	98

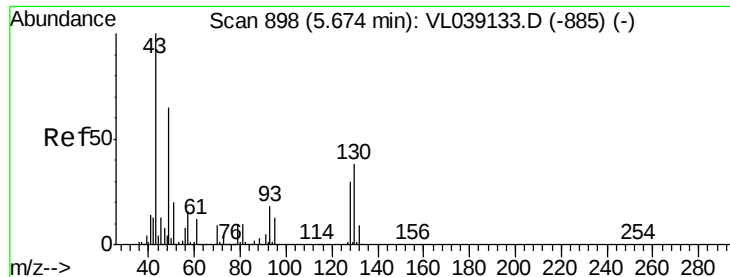
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062422\
Data File : VL039352.D
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IA-3

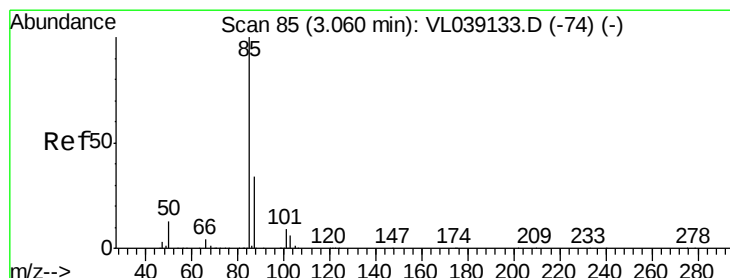
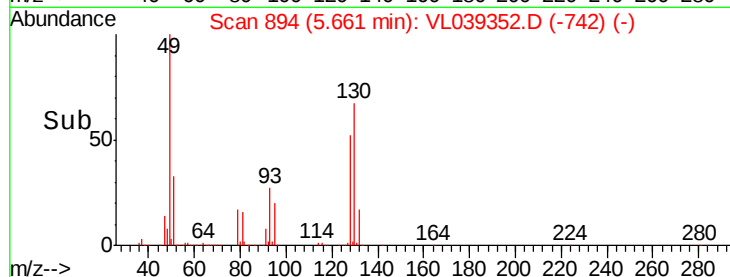
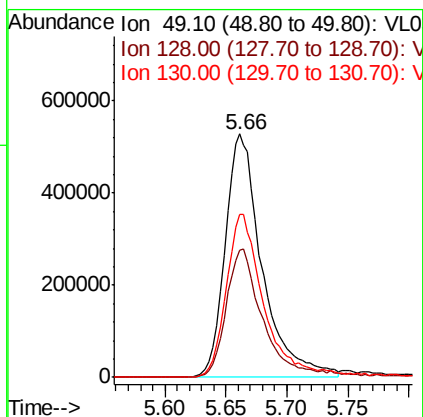
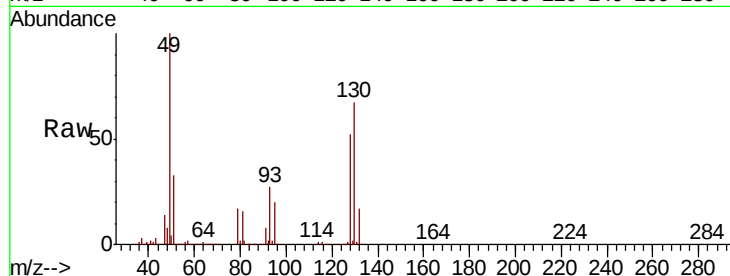
Quant Time: Jun 27 01:52:00 2022
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Jun 01 01:22:18 2022
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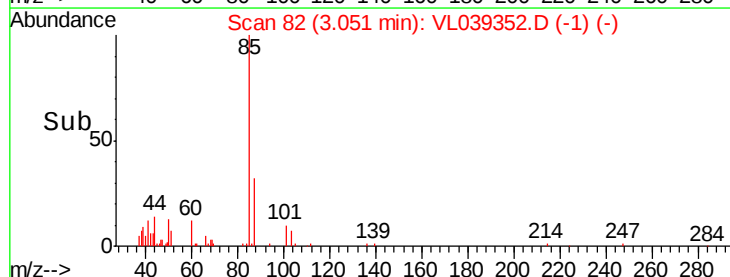
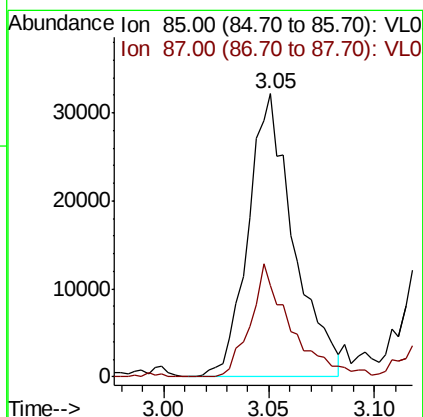
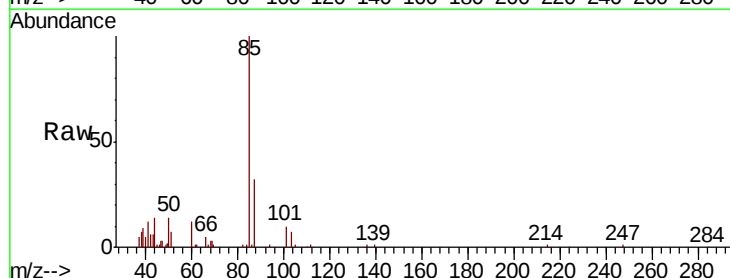
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 24 Jun 2022 22:20

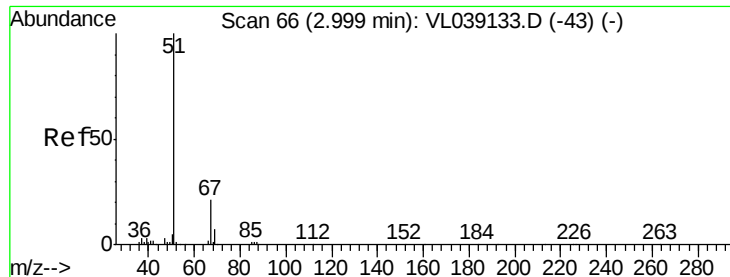
Tot Ion: 49 Resp: 1113464
 Ion Ratio Lower Upper
 49 100
 128 54.3 24.7 74.1
 130 70.7 31.4 94.0



#2
 Dichlorodifluoromethane
 Concen: 0.246 ppbv
 RT: 3.05 min Scan# 82
 Delta R.T. -0.01 min
 Lab File: VL039352.D
 Acq: 24 Jun 2022 22:26

Tgt Ion: 85 Resp: 48159
 Ion Ratio Lower Upper
 85 100
 87 32.3 26.9 40.3





#3

Chlorodifluoromethane

Concen: 0.501 ppbv

RT: 2.99 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

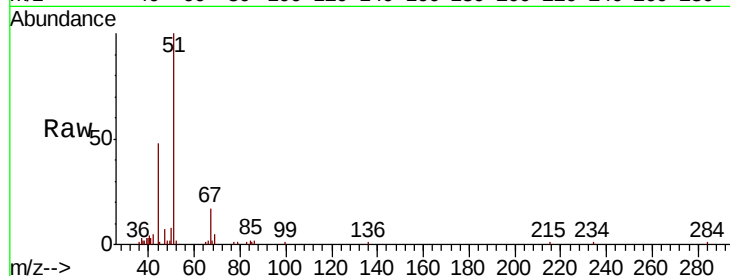
Acq: 24 Jun 2022 22:26

Tot Ion: 51 Resp: 71026

Ion Ratio Lower Upper

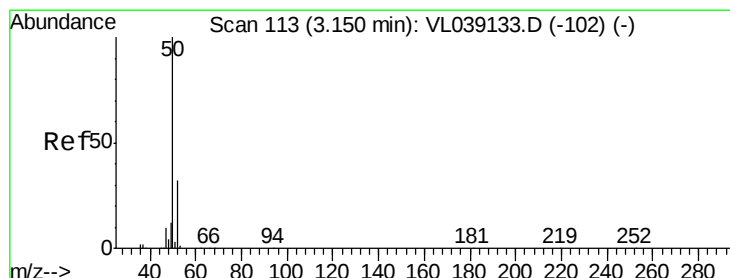
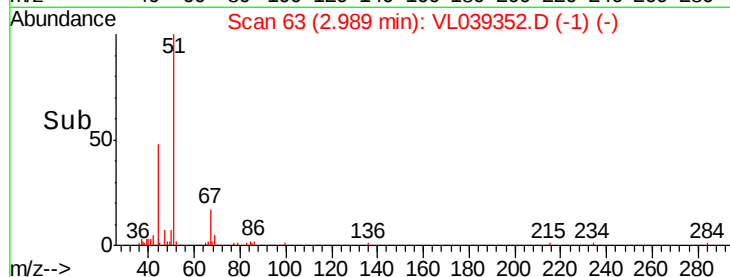
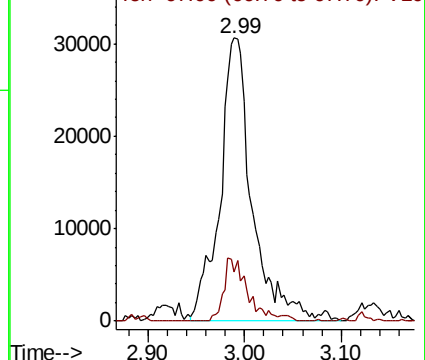
51 100

67 16.7 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: 0.541 ppbv

RT: 3.14 min Scan# 111

Delta R.T. -0.01 min

Lab File: VL039352.D

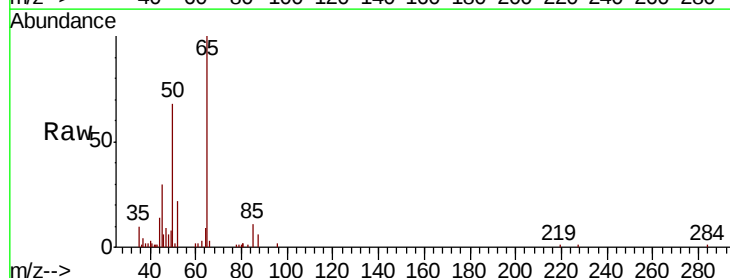
Acq: 24 Jun 2022 22:26

Tgt Ion: 50 Resp: 39342

Ion Ratio Lower Upper

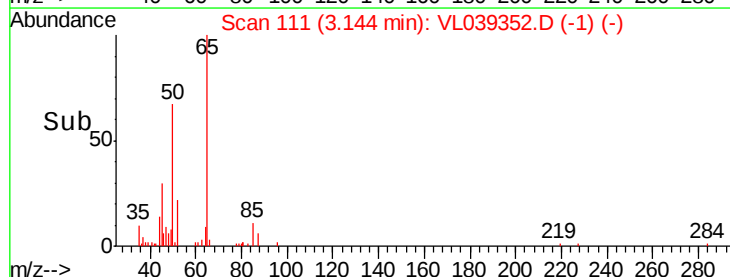
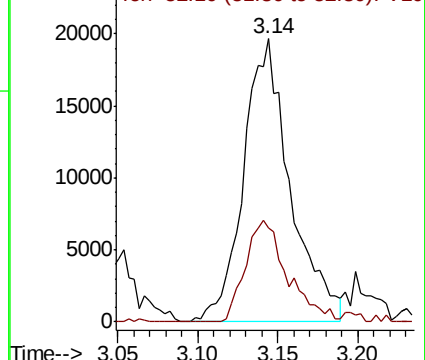
50 100

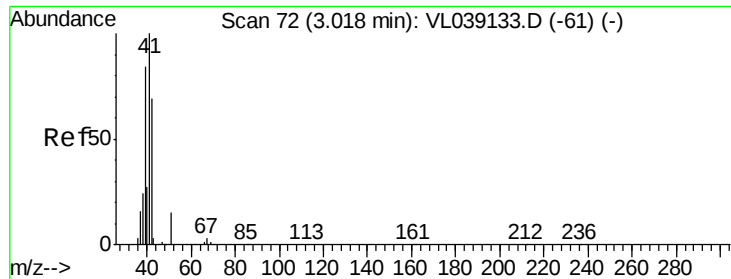
52 32.4 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.694 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

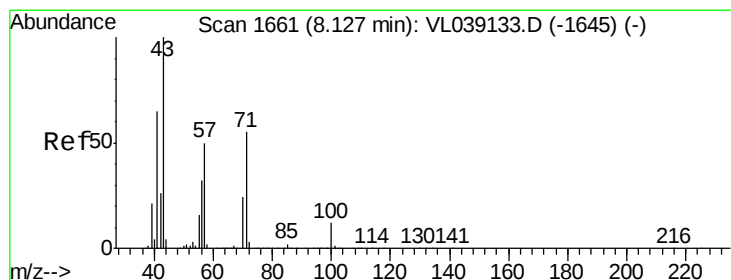
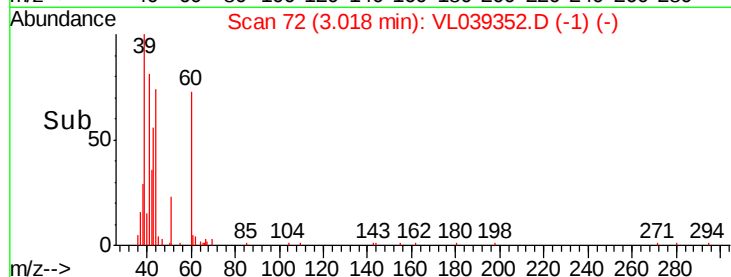
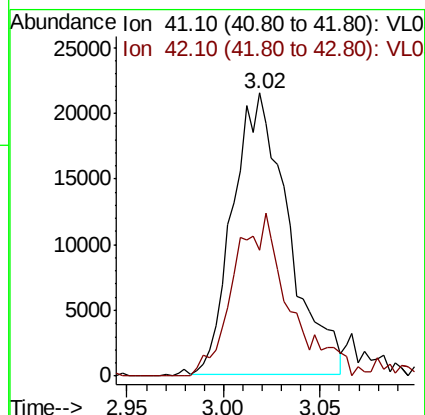
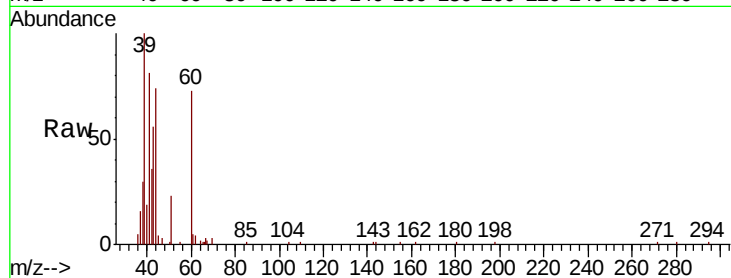
Acq: 24 Jun 2022 22:26

Tot Ion: 41 Resp: 42869

Ion Ratio Lower Upper

41 100

42 60.5 55.4 83.2



#10

Heptane

Concen: 0.090 ppbv

RT: 8.12 min Scan# 1658

Delta R.T. -0.01 min

Lab File: VL039352.D

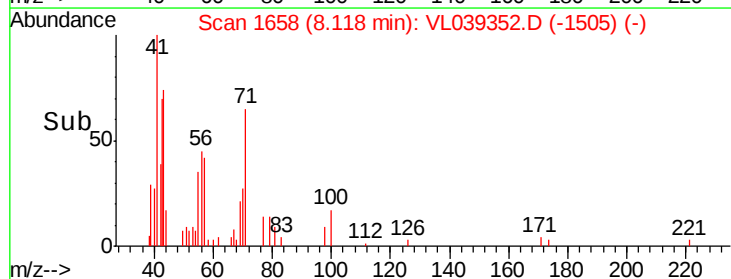
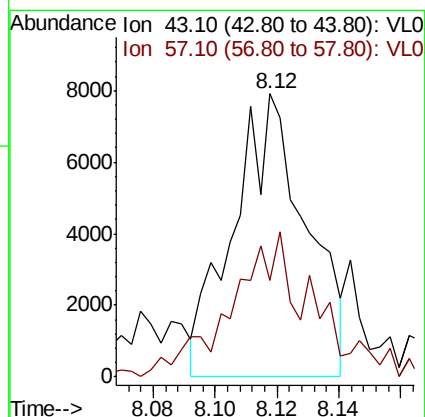
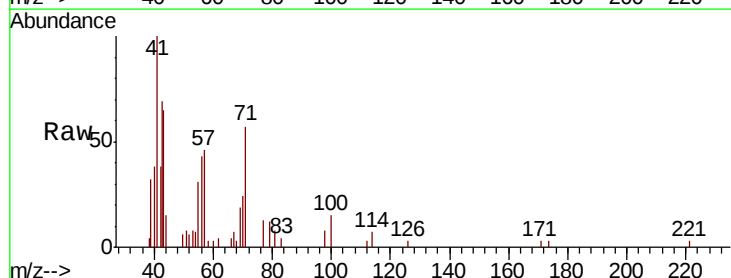
Acq: 24 Jun 2022 22:26

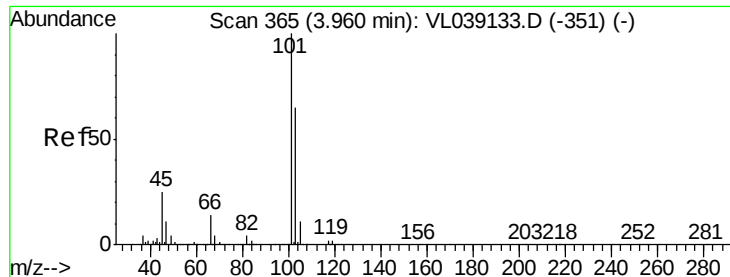
Tgt Ion: 43 Resp: 12971

Ion Ratio Lower Upper

43 100

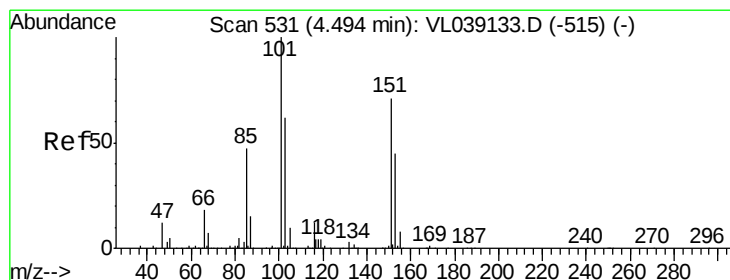
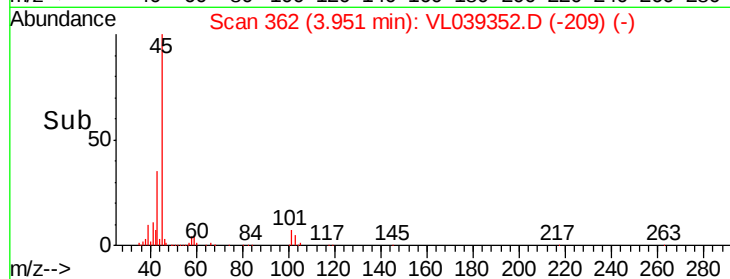
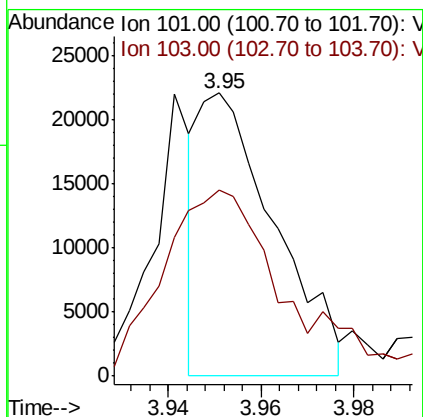
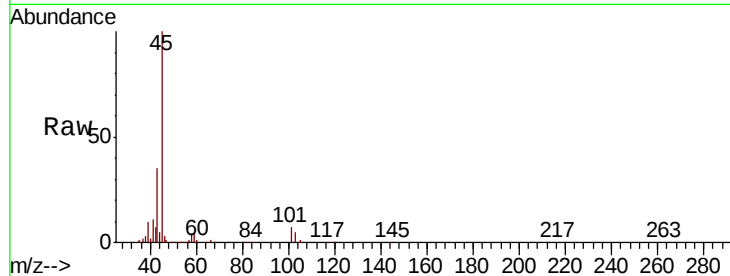
57 58.5 41.4 62.2





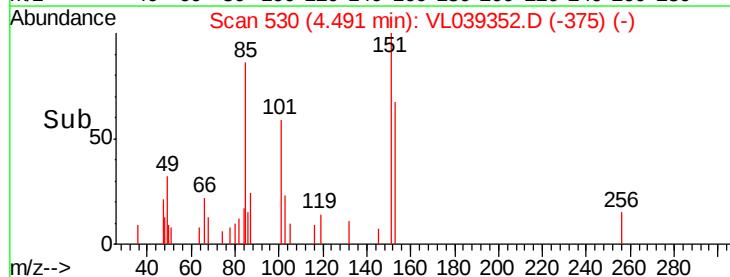
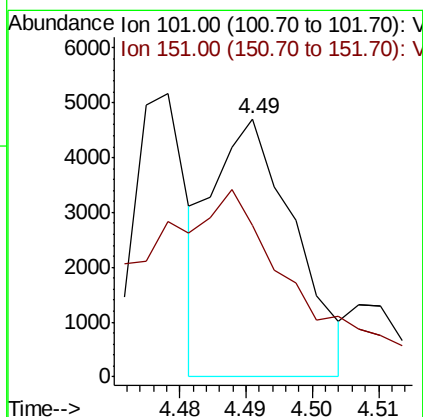
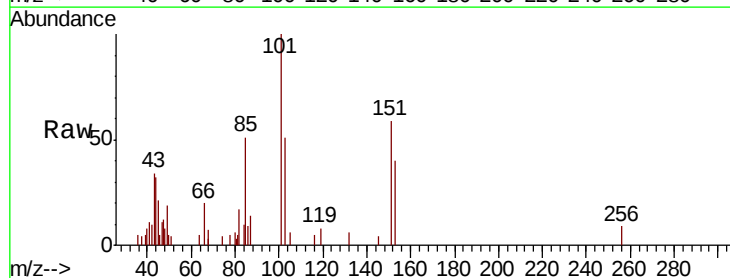
#11
 Trichlorofluoromethane
 Concen: 0.141 ppbv
 RT: 3.95
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jun 2022 22:26

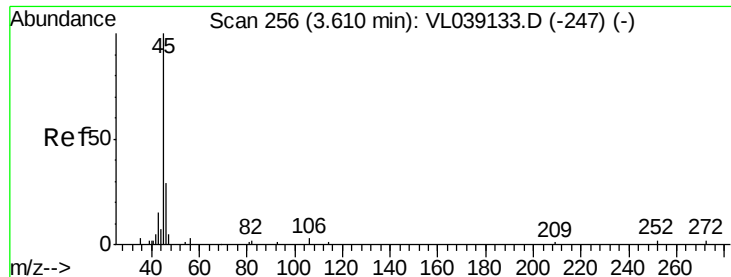
Tot Ion:101 Resp: 24978
 Ion Ratio Lower Upper
 101 100
 103 55.4 51.7 77.5



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.035 ppbv
 RT: 4.49 min Scan# 530
 Delta R.T. -0.00 min
 Lab File: VL039352.D
 Acq: 24 Jun 2022 22:26

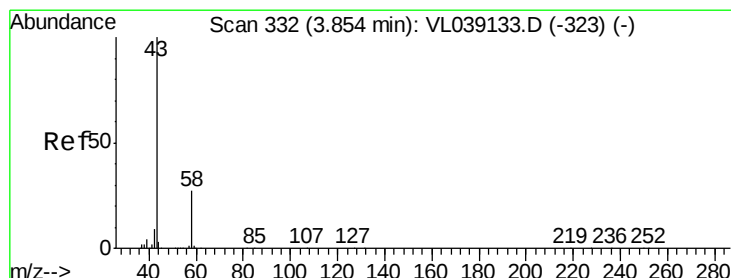
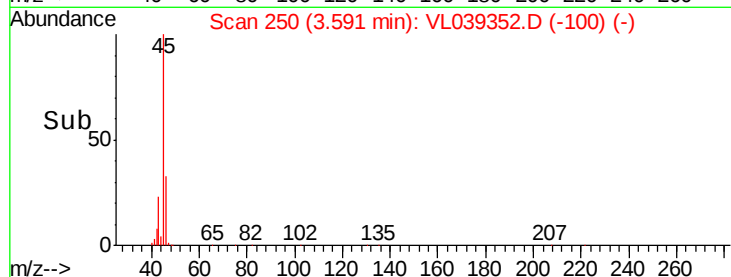
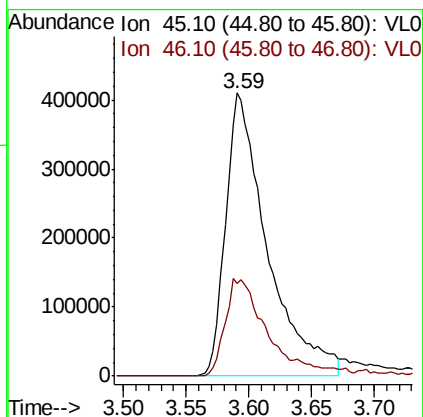
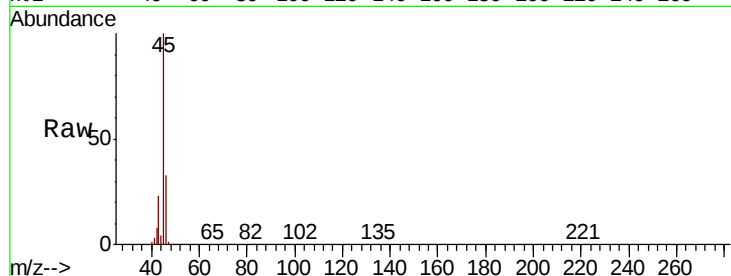
Tgt Ion:101 Resp: 4049
 Ion Ratio Lower Upper
 101 100
 151 160.9 59.4 89.0#





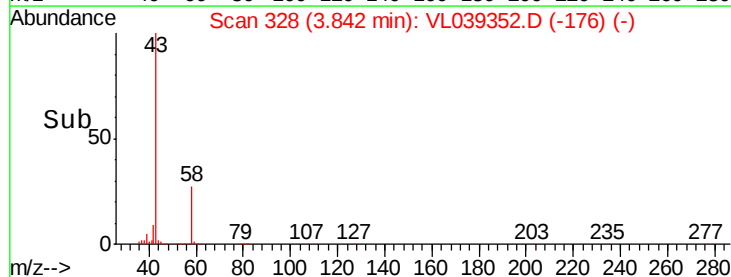
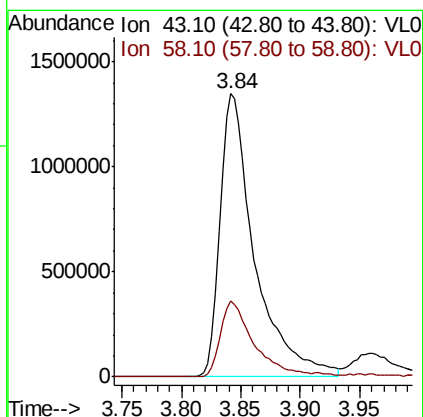
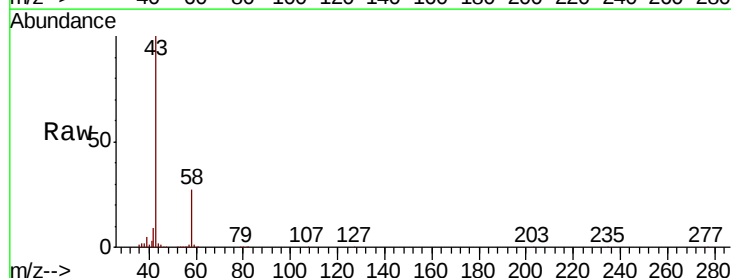
#13
Ethanol
Concen: 280.709 ppbv
RT: 3.59
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jun 2022 22:26

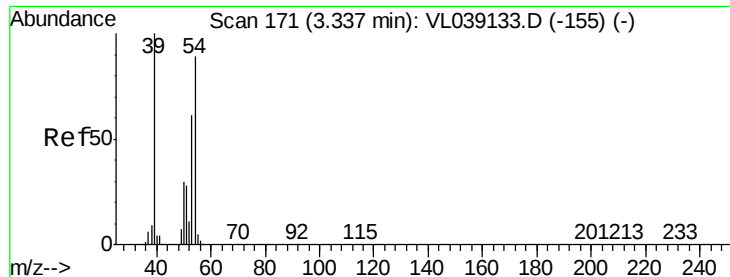
Tot Ion: 45 Resp: 945701
Ion Ratio Lower Upper
45 100
46 37.7 0.0 0.0#



#15
Acetone
Concen: 23.346 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL039352.D
Acq: 24 Jun 2022 22:26

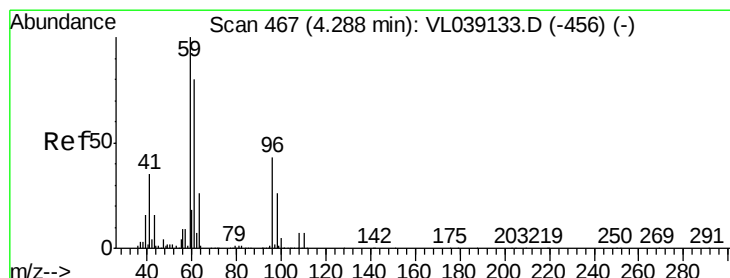
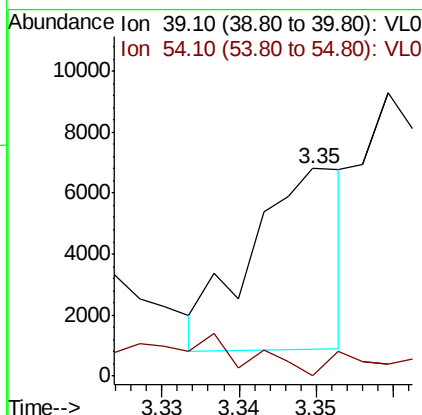
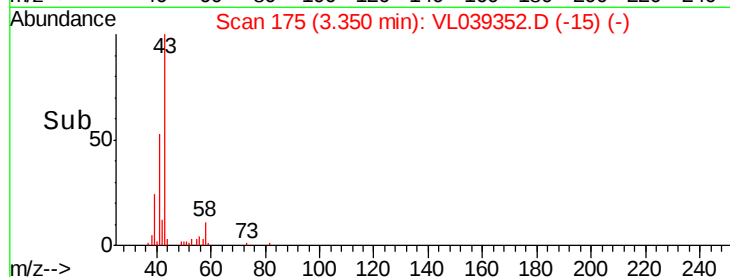
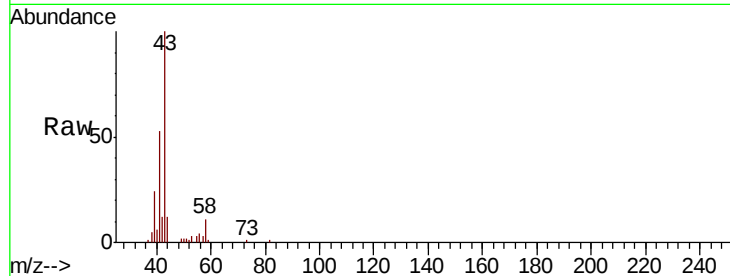
Tgt Ion: 43 Resp: 2707811
Ion Ratio Lower Upper
43 100
58 26.7 22.5 33.7





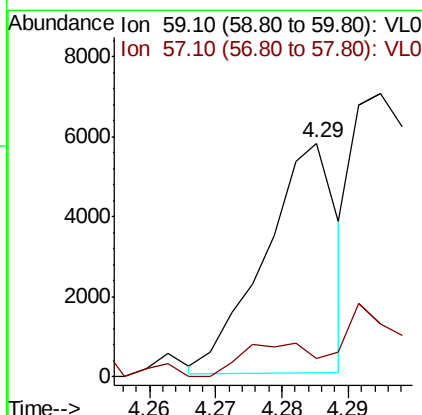
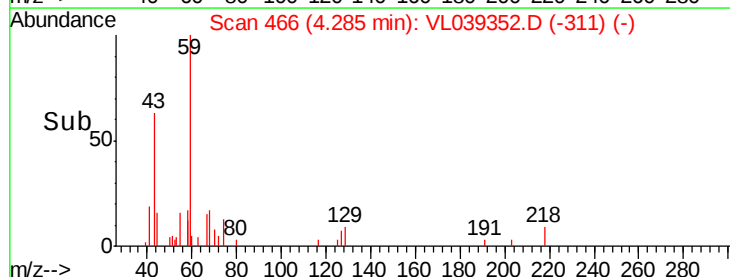
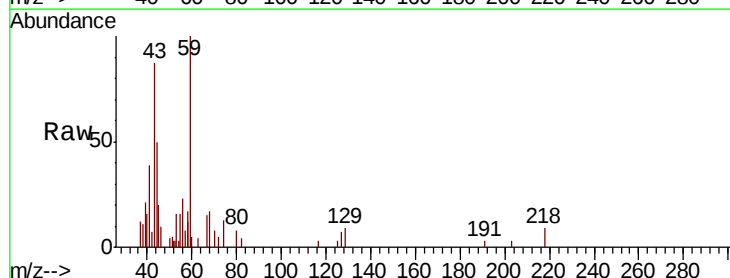
#16
 1,3-Butadiene
 Concen: 0.080 ppbv
 RT: 3.35 Instrument : MSVOA_1
 Delta R.T. :
 Lab File: ClientSampleId :
 Acq: 24 Jun 2022 22:20

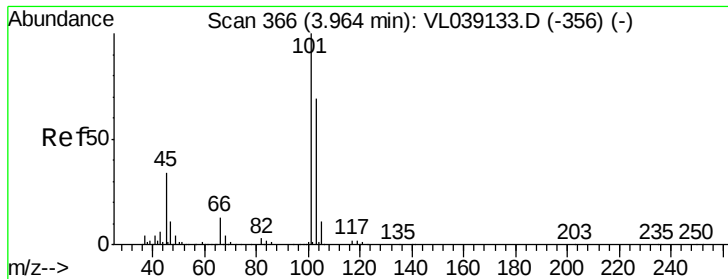
Tot Ion: 39 Resp: 4974
 Ion Ratio Lower Upper
 39 100
 54 36.3 65.8 98.6#



#17
 tert-Butyl alcohol
 Concen: 0.049 ppbv
 RT: 4.29 min Scan# 466
 Delta R.T. -0.00 min
 Lab File: VL039352.D
 Acq: 24 Jun 2022 22:26

Tgt Ion: 59 Resp: 4367
 Ion Ratio Lower Upper
 59 100
 57 0.0 9.1 13.7#





#19

Isopropyl Alcohol

Concen: 14.679 ppbv

RT: 3.96 Instrument:

Delta R.T. MSVOA.L

Lab File: ClientSampleId:

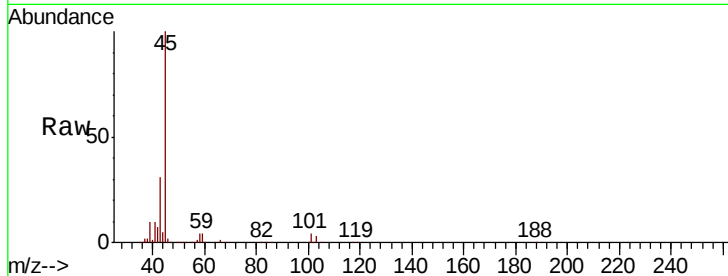
Acq: 24 Jun 2022 22:28

Tot Ion: 45 Resp: 798554

Ion Ratio Lower Upper

45 100

58 4.1 1.8 2.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.96

400000

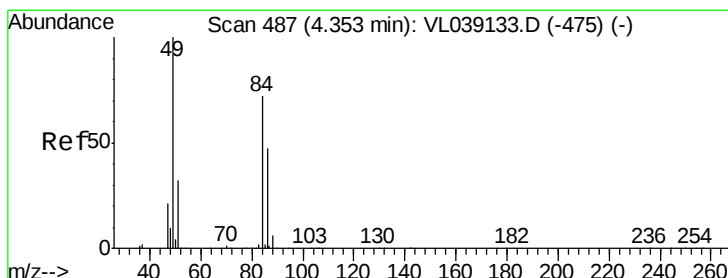
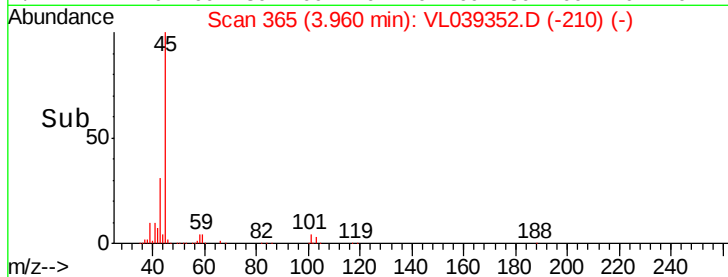
300000

200000

100000

0

Time-->



#20

Methylene Chloride

Concen: 2.107 ppbv

RT: 4.34 min Scan# 484

Delta R.T. -0.01 min

Lab File: VL039352.D

Acq: 24 Jun 2022 22:26

Tgt Ion: 84 Resp: 103002

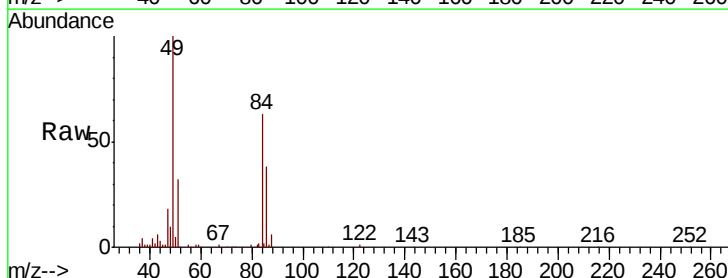
Ion Ratio Lower Upper

84 100

49 158.0 111.1 166.7

51 51.8 35.3 52.9

86 60.8 51.9 77.9



Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

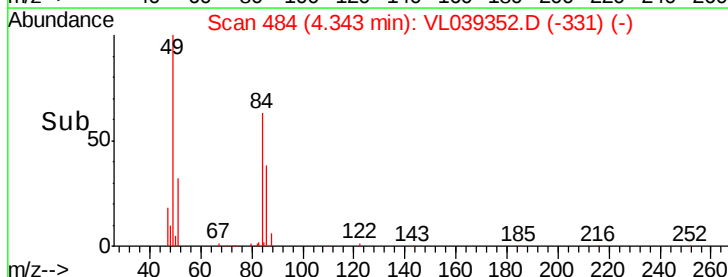
Ion 86.00 (85.70 to 86.70): VL0

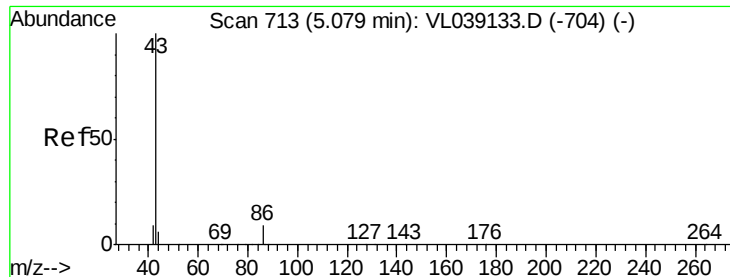
100000

50000

0

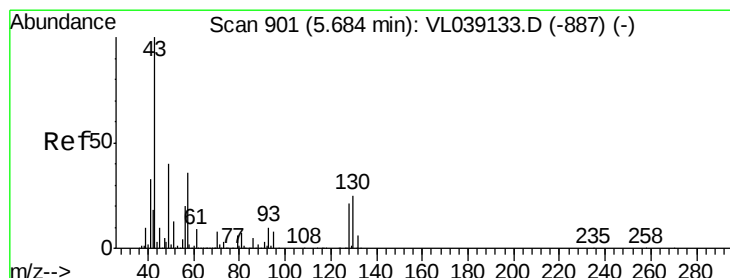
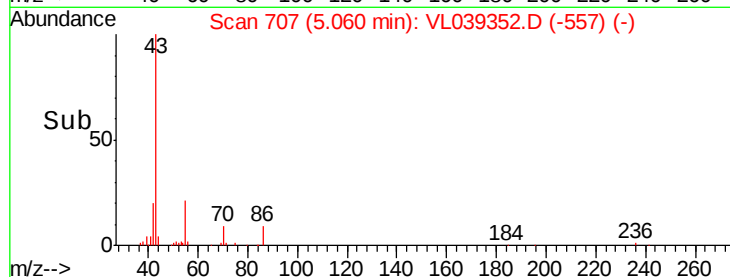
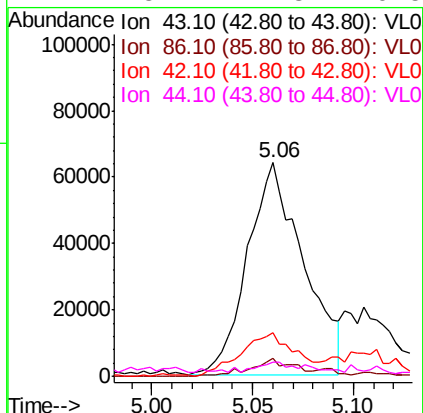
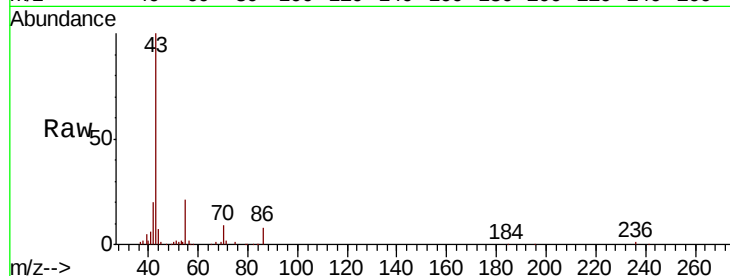
Time-->





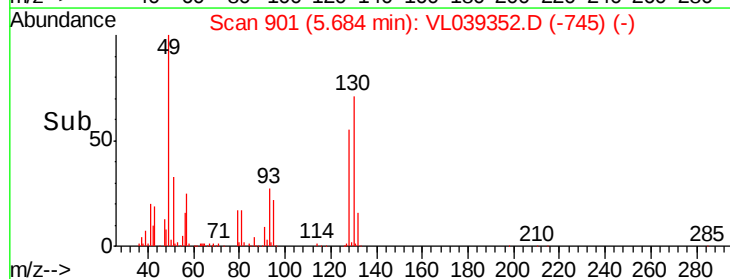
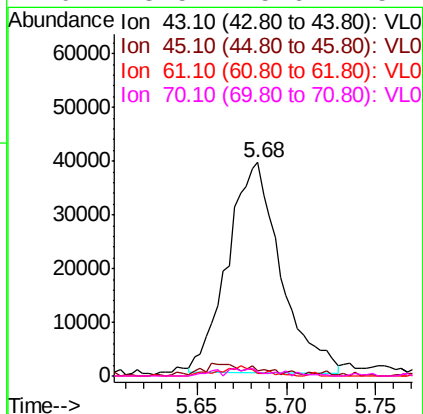
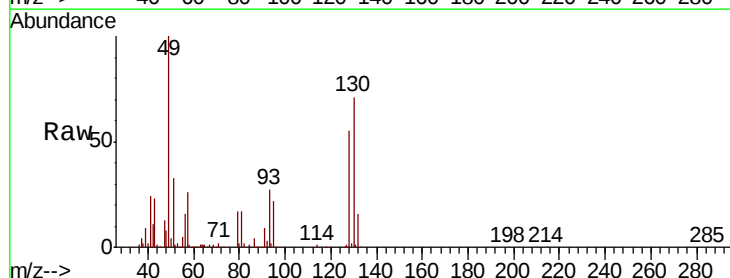
#23
 Vinyl Acetate
 Concen: 1.291 ppbv
 RT: 5.06
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jun 2022 22:26

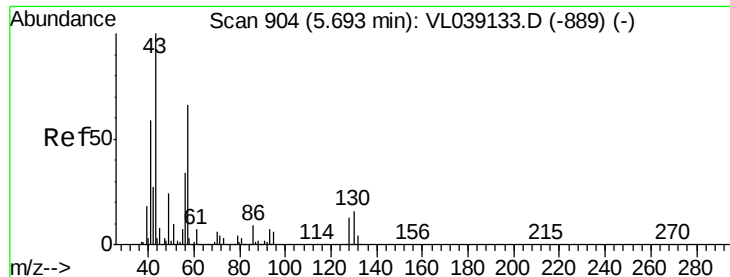
Tot Ion:	43	Resp:	123923
Ion	Ratio	Lower	Upper
43	100		
86	8.4	6.0	9.0
42	18.8	8.2	12.4#
44	5.2	4.3	6.5



#25
 Ethyl Acetate
 Concen: 0.310 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. 0.00 min
 Lab File: VL039352.D
 Acq: 24 Jun 2022 22:26

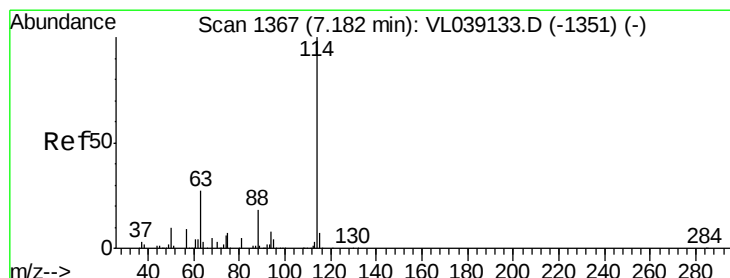
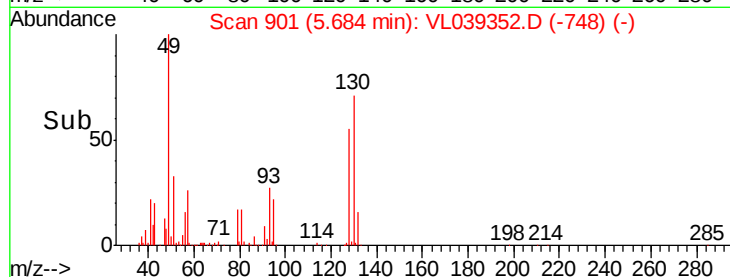
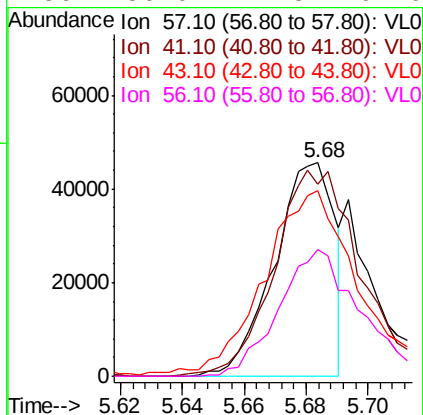
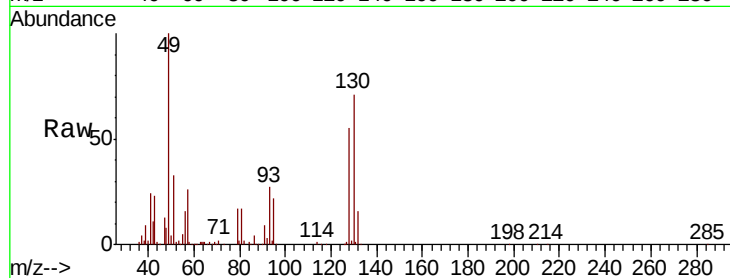
Tgt Ion:	43	Resp:	81000
Ion	Ratio	Lower	Upper
43	100		
45	2.4	8.2	12.2#
61	3.6	8.4	12.6#
70	3.5	5.6	8.4#





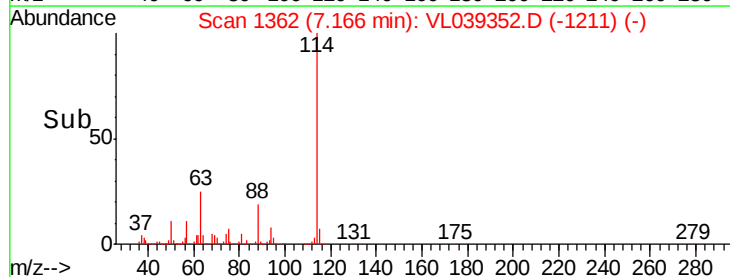
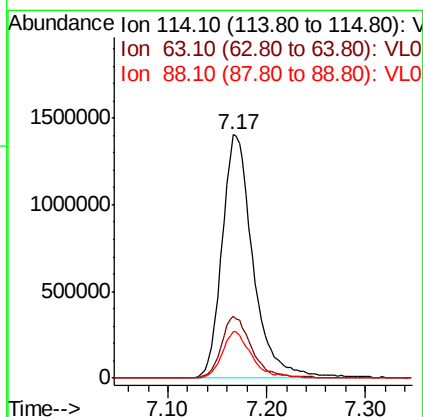
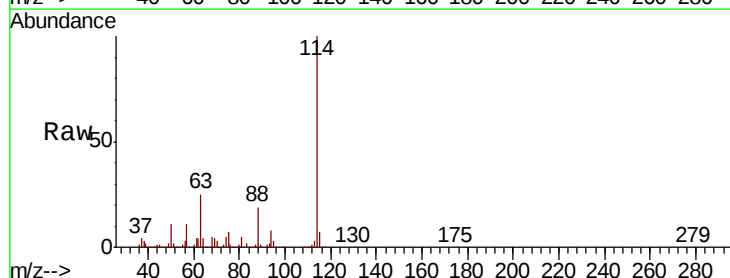
#26
Hexane
Concen: 0.539 ppbv
RT: 5.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 24 Jun 2022 22:26

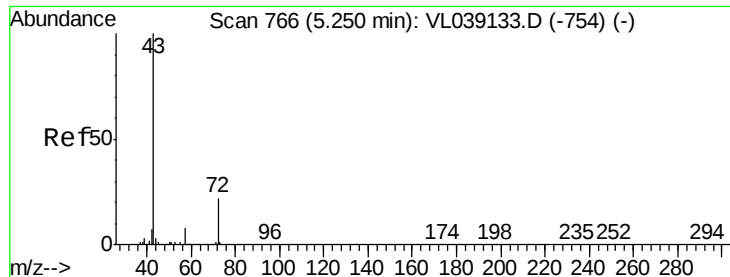
Tot Ion	57	Resp	61869
Ion	Ratio	Lower	Upper
57	100		
41	146.7	72.4	108.6#
43	142.6	187.0	280.6#
56	86.0	41.8	62.6#



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.17 min Scan# 1362
Delta R.T. -0.02 min
Lab File: VL039352.D
Acq: 24 Jun 2022 22:26

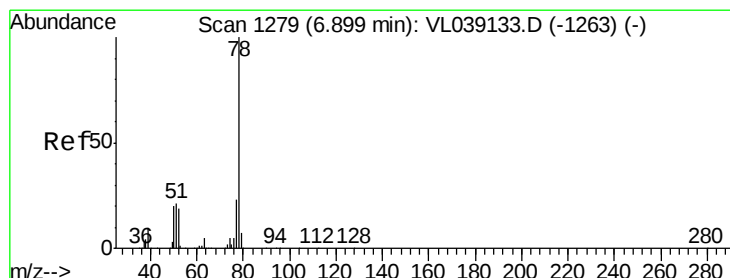
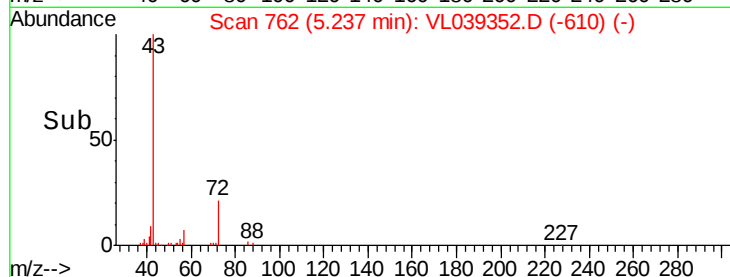
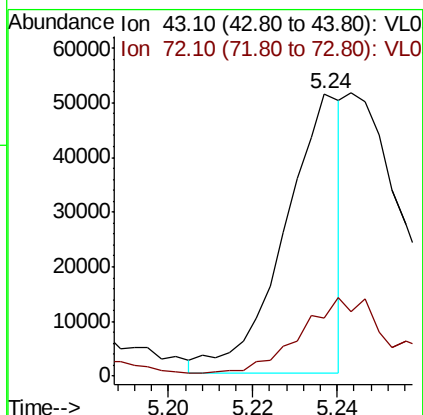
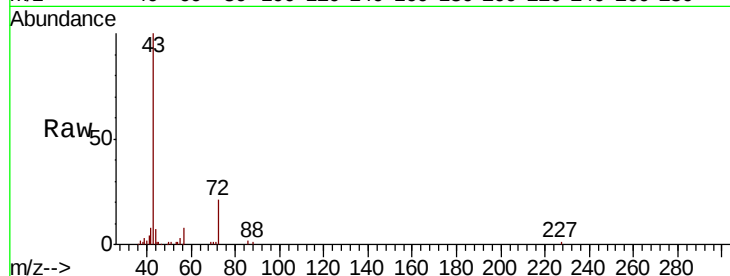
Tgt Ion	114	Resp	3083446
Ion	Ratio	Lower	Upper
114	100		
63	25.0	21.7	32.5
88	18.4	14.8	22.2





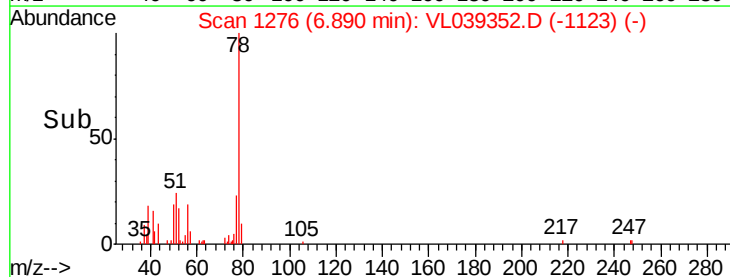
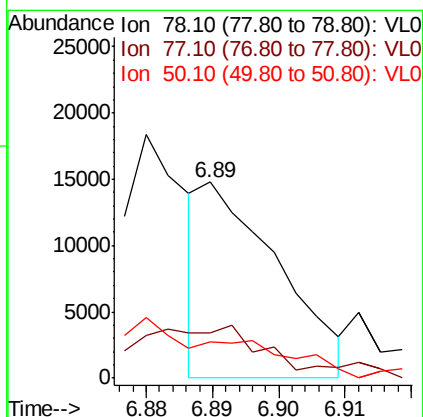
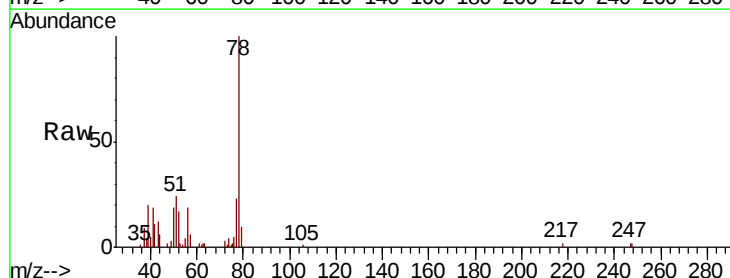
#34
2-Butanone
Concen: 0.285 ppbv
RT: 5.24
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
IA-3
Acq: 24 Jun 2022 22:26

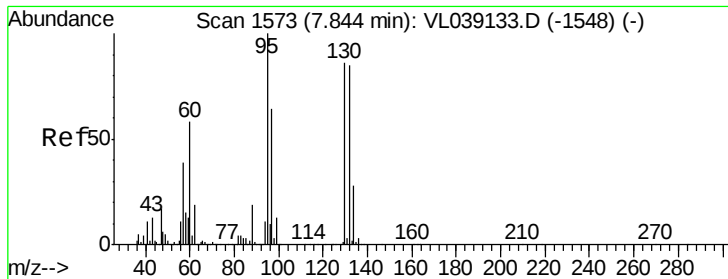
Tot Ion: 43 Resp: 47704
Ion Ratio Lower Upper
43 100
72 0.0 18.2 27.2#



#36
Benzene
Concen: 0.048 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.01 min
Lab File: VL039352.D
Acq: 24 Jun 2022 22:26

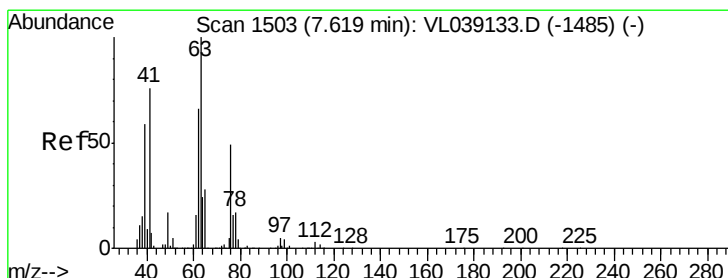
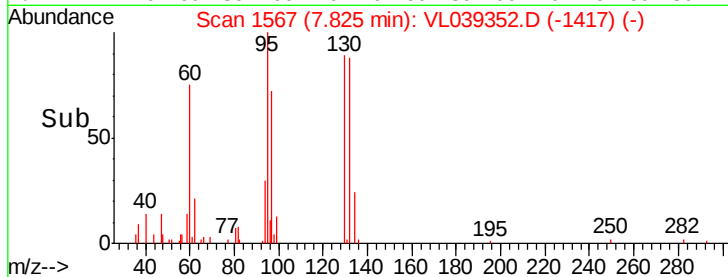
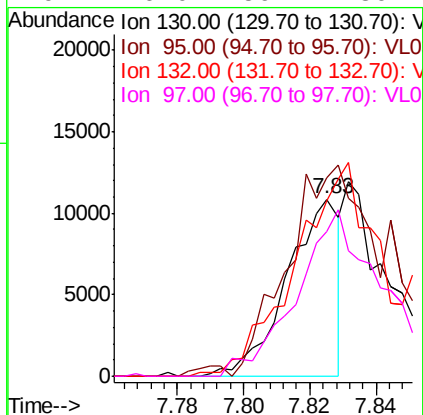
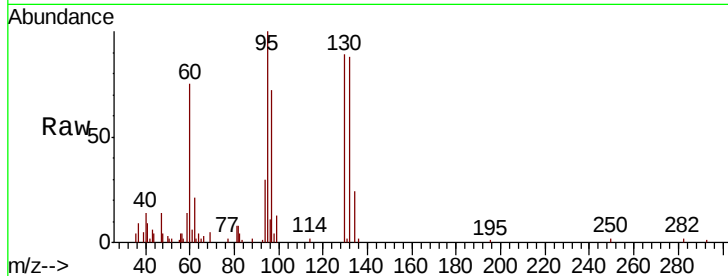
Tgt Ion: 78 Resp: 11962
Ion Ratio Lower Upper
78 100
77 22.2 18.6 27.8
50 18.1 15.8 23.8





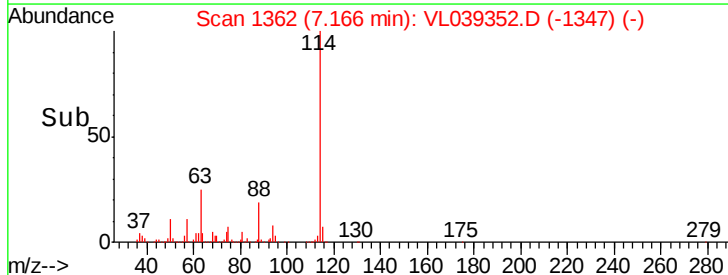
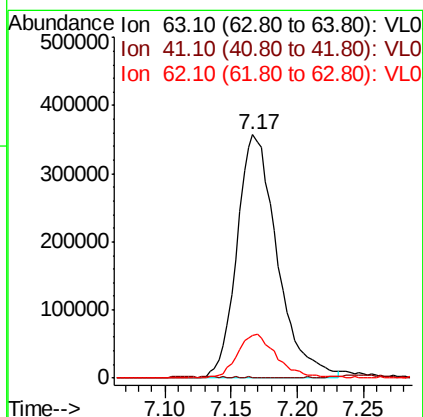
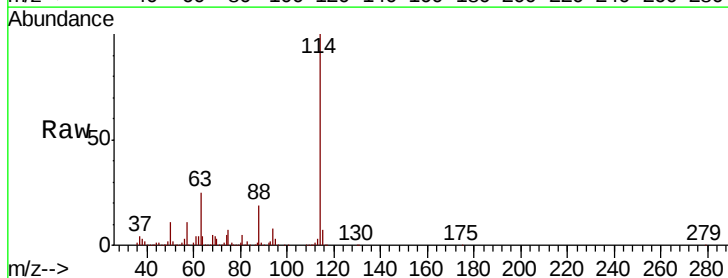
#38
 Trichloroethene
 Concen: 0.104 ppbv
 RT: 7.83
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 24 Jun 2022 22:26

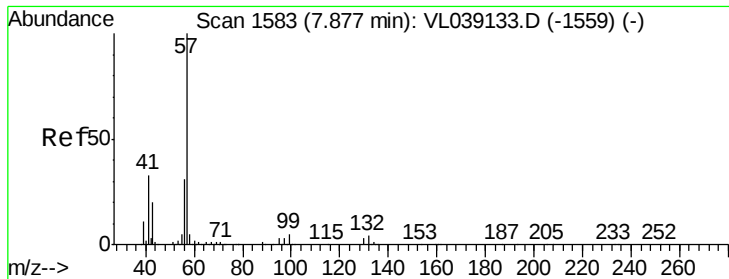
Tot Ion:130	Resp:	11949
Ion Ratio	Lower	Upper
130	100	
95	109.5	93.3 139.9
132	98.8	79.0 118.4
97	76.0	59.4 89.2



#39
 1,2-Dichloropropane
 Concen: 7.592 ppbv
 RT: 7.17 min Scan# 1362
 Delta R.T. -0.45 min
 Lab File: VL039352.D
 Acq: 24 Jun 2022 22:26

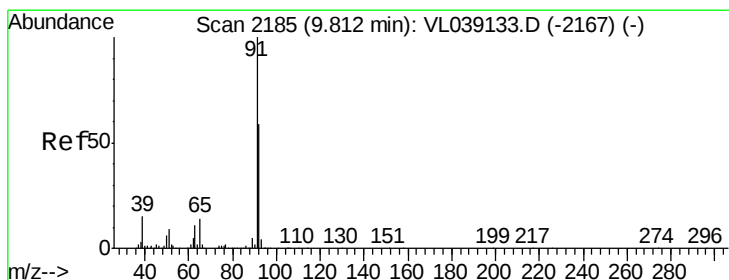
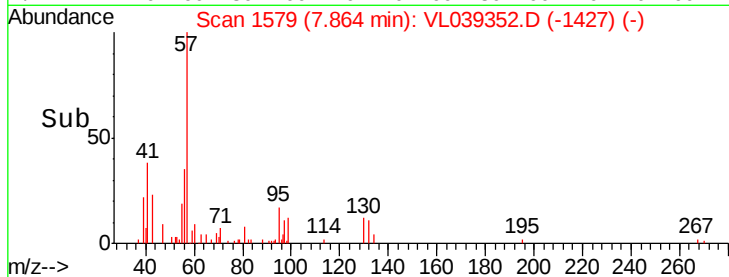
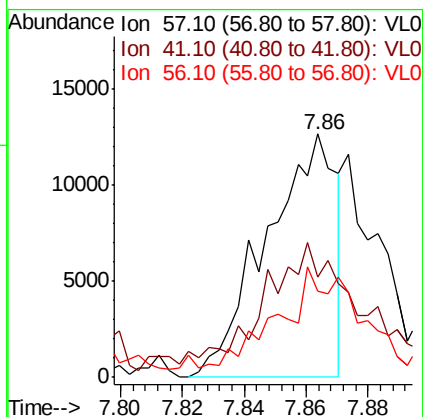
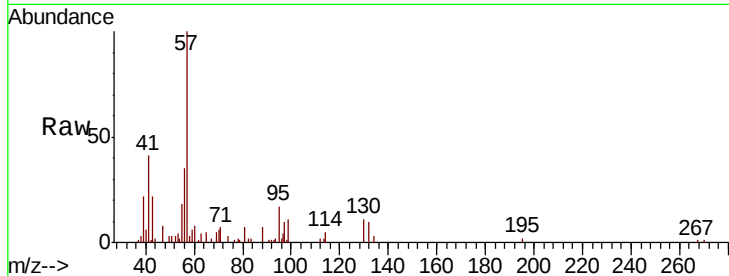
Tgt Ion: 63	Resp:	755948
Ion Ratio	Lower	Upper
63	100	
41	0.0	60.8 91.2#
62	17.6	52.9 79.3#





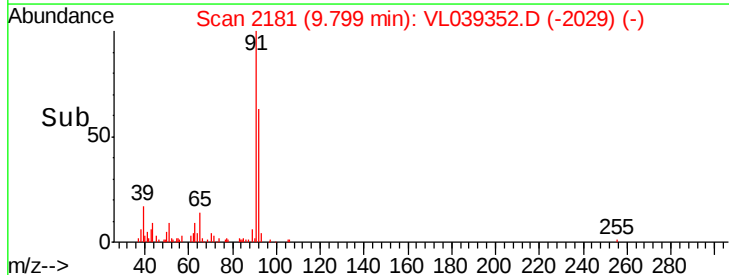
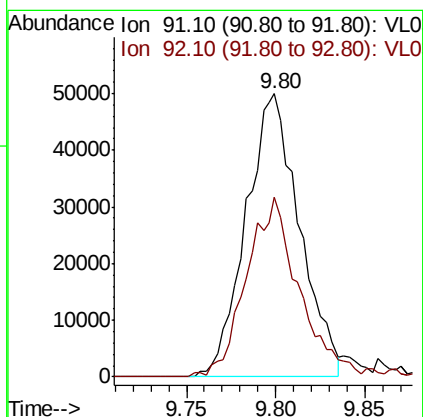
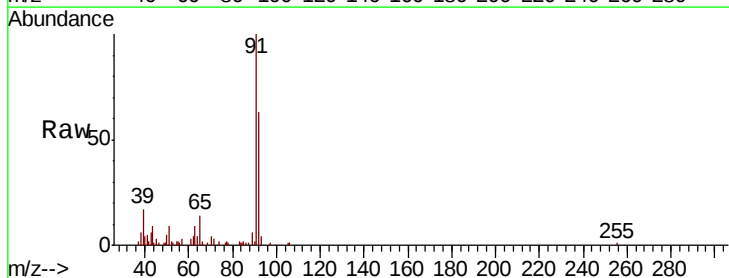
#44
 2,2,4-Trimethylpentane
 Concen: 0.045 ppbv
 RT: 7.86
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jun 2022 22:26

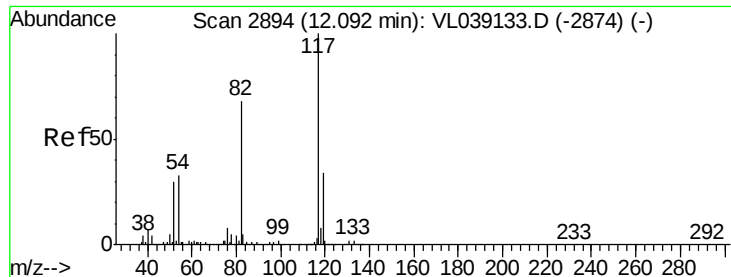
Tot Ion	57	Resp	19746
Ion Ratio	Lower	Upper	
57	100		
41	80.5	26.2	39.4#
56	73.6	24.7	37.1#



#53
 Toluene
 Concen: 0.363 ppbv
 RT: 9.80 min Scan# 2181
 Delta R.T. -0.01 min
 Lab File: VL039352.D
 Acq: 24 Jun 2022 22:26

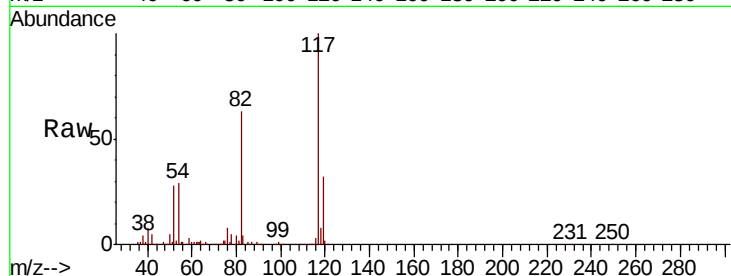
Tgt Ion	91	Resp	104731
Ion Ratio	Lower	Upper	
91	100		
92	64.5	48.1	72.1



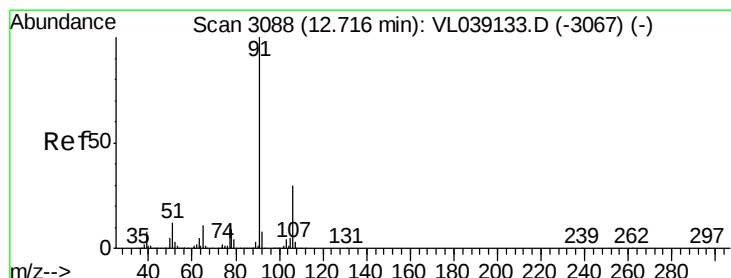
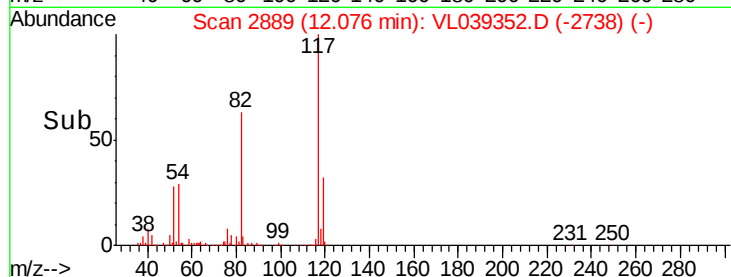
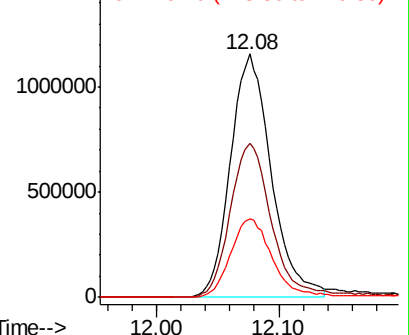


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 24 Jun 2022 22:20

Tot Ion:117 Resp: 2668834
Ion Ratio Lower Upper
117 100
82 66.5 55.1 82.7
119 33.9 24.7 37.1

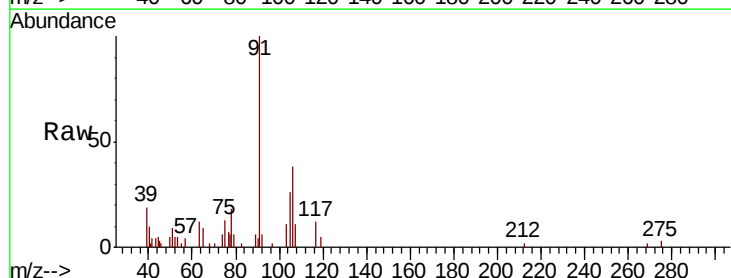


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

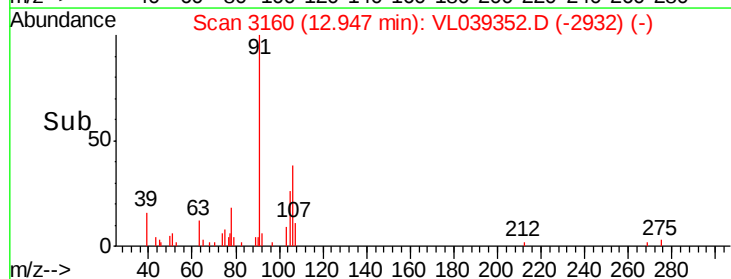
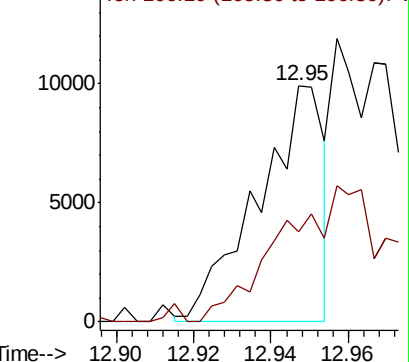


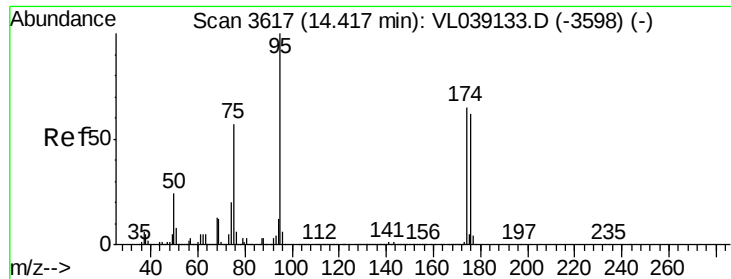
#58
Ethyl Benzene
Concen: 0.032 ppbv
RT: 12.95 min Scan# 3160
Delta R.T.: 0.23 min
Lab File: VL039352.D
Acq: 24 Jun 2022 22:26

Tgt Ion: 91 Resp: 11714
Ion Ratio Lower Upper
91 100
106 31.4 24.2 36.4



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: 9.130 ppbv

RT: 14.40

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 24 Jun 2022 22:20

Tot Ion: 95 Resp: 2014414

Ion Ratio Lower Upper

95 100

174 72.2 53.8 80.8

175 5.0 4.1 6.1

