

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL060322\
 Data File : VL039171.D
 Acq On : 4 Jun 2022 3:12
 Operator : SY/AP
 Sample : N3106-09 2X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1DL

Quant Time: Jun 04 03:55:44 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

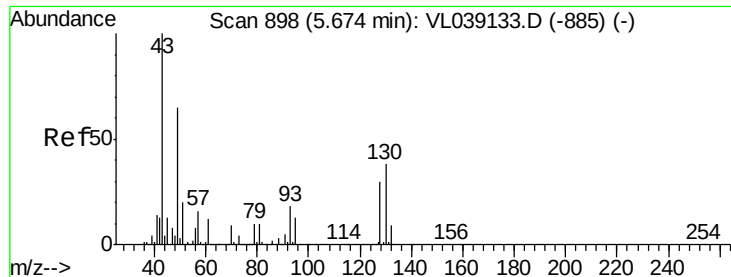
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.67	49	1306807	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	3558901	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.09	117	3206015	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.42	95	2459443	9.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	92.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.06	85	38834	0.169 ppbv	96
4) Chloromethane	3.15	50	22906	0.268 ppbv #	87
9) Propene	3.03	41	23487	0.324 ppbv #	66
11) Trichlorofluoromethane	3.96	101	21578	0.104 ppbv	94
13) Ethanol	3.61	45	59112	14.950 ppbv #	100
15) Acetone	3.86	43	387050	2.843 ppbv	91
19) Isopropyl Alcohol	3.98	45	22253	0.349 ppbv #	93
20) Methylene Chloride	4.35	84	537185	9.364 ppbv	98
23) Vinyl Acetate	5.07	43	43575	0.387 ppbv #	96
25) Ethyl Acetate	5.70	43	374922	1.222 ppbv #	77
26) Hexane	5.70	57	529570	3.928 ppbv #	39
34) 2-Butanone	5.26	43	56245	0.291 ppbv #	77
36) Benzene	6.90	78	12627	0.044 ppbv #	92
39) 1,2-Dichloropropane	7.18	63	849138	7.389 ppbv #	23
41) Tetrahydrofuran	6.08	42	4701	0.040 ppbv #	18
44) 2,2,4-Trimethylpentane	7.87	57	16810	0.033 ppbv #	21
53) Toluene	9.81	91	38663	0.116 ppbv #	51
59) m/p-Xylene	13.00	91	15649	0.040 ppbv #	33
60) o-Xylene	13.69	91	14730	0.040 ppbv #	41
74) 1,2,4-Trimethylbenzene	16.76	105	18768	0.044 ppbv #	58

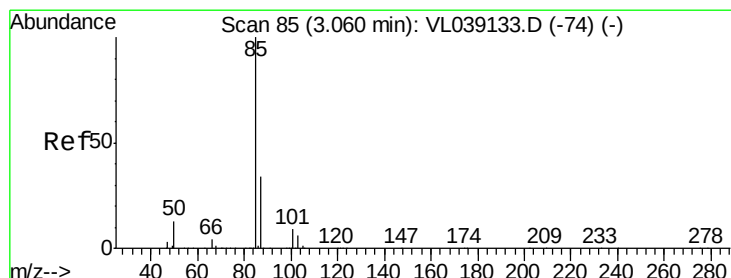
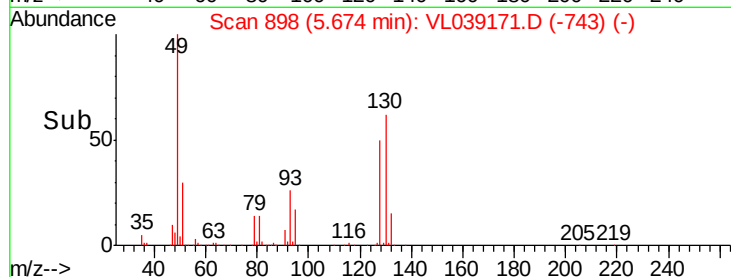
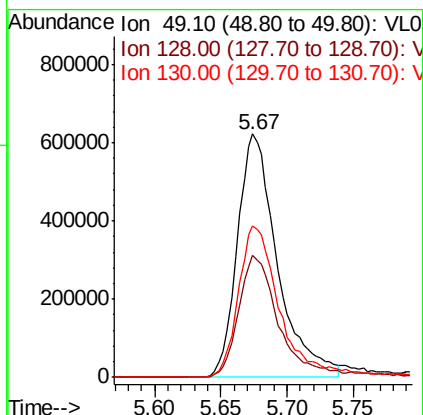
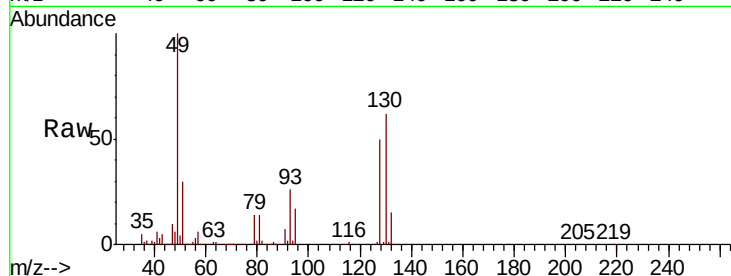
(#) = qualifier out of range (m) = manual integration (+) = signals summed

```
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL060322\  
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Operator  : SY/AP  
Sample    : N3106-09 2X  
Misc      : 400mL/MSVOA L  
ALS Vial  : 1 Sample Multiplier: 1
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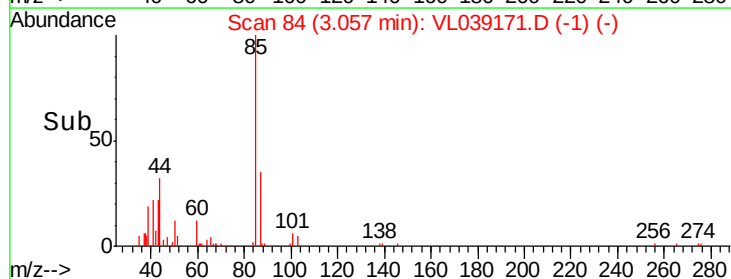
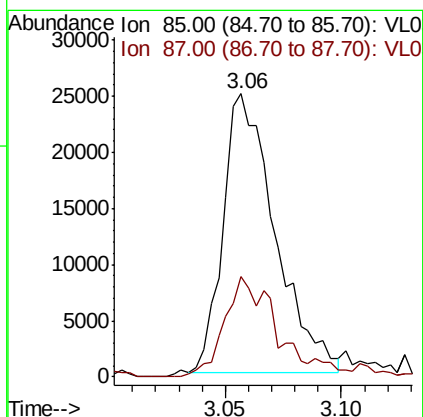
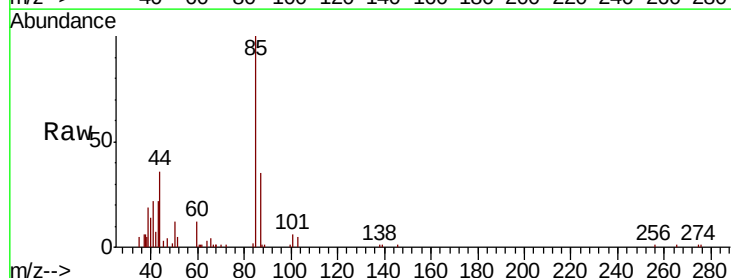
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.67
 Instrument: MSVOA_1
 Delta R.T.:
 Lab File: ClientSampleId:
 Acq: 4 Jun 2022 3:12

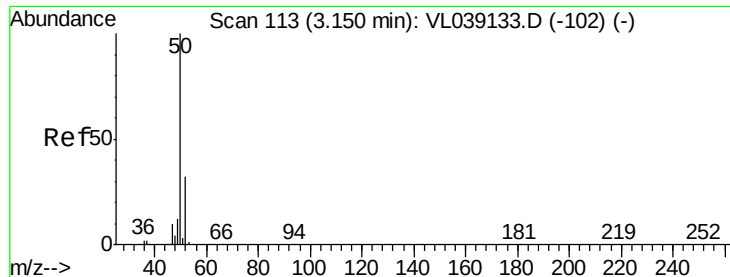
Tot Ion: 49 Resp: 1306807
 Ion Ratio Lower Upper
 49 100
 128 52.2 24.7 74.1
 130 66.5 31.4 94.0



#2
 Dichlorodifluoromethane
 Concen: 0.169 ppbv
 RT: 3.06 min Scan# 84
 Delta R.T. -0.00 min
 Lab File: VL039171.D
 Acq: 4 Jun 2022 3:12

Tgt Ion: 85 Resp: 38834
 Ion Ratio Lower Upper
 85 100
 87 36.1 26.9 40.3





#4

Chloromethane

Concen: 0.268 ppbv

RT: 3.15 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

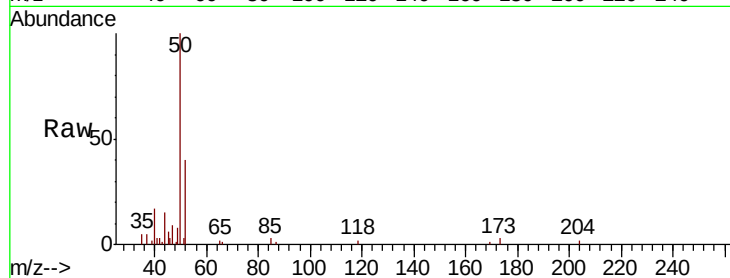
Acq: 4 Jun 2022 3:12

Tot Ion: 50 Resp: 22906

Ion Ratio Lower Upper

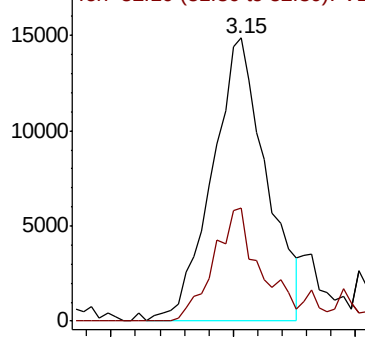
50 100

52 39.9 25.9 38.9#

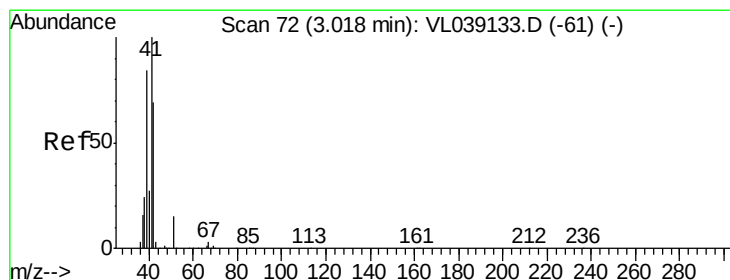
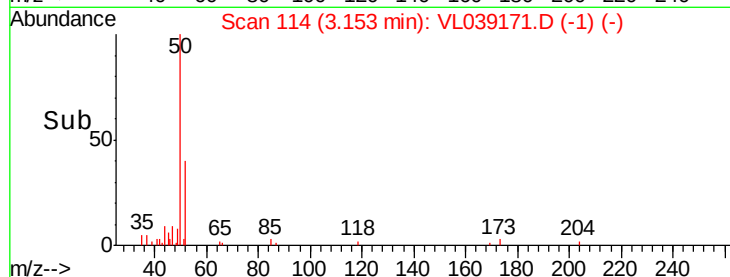


Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



Time-->



#9

Propene

Concen: 0.324 ppbv

RT: 3.03 min Scan# 75

Delta R.T. 0.01 min

Lab File: VL039171.D

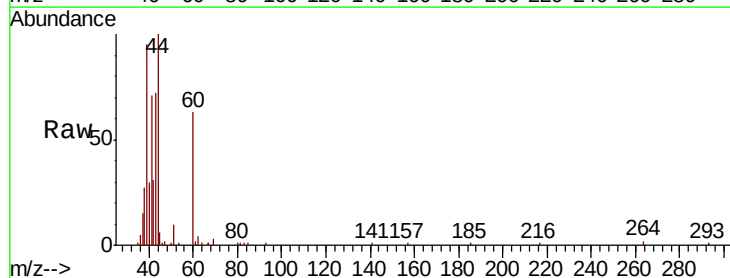
Acq: 4 Jun 2022 3:12

Tgt Ion: 41 Resp: 23487

Ion Ratio Lower Upper

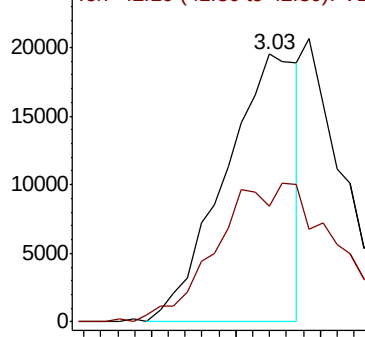
41 100

42 97.1 55.4 83.2#

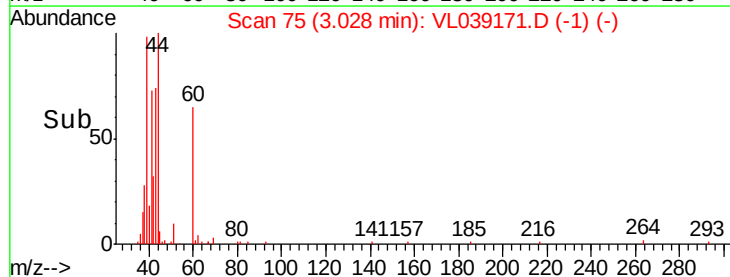


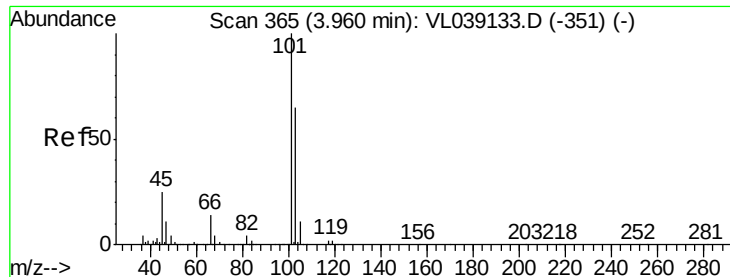
Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



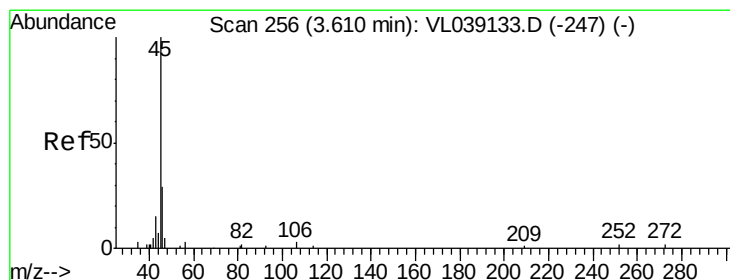
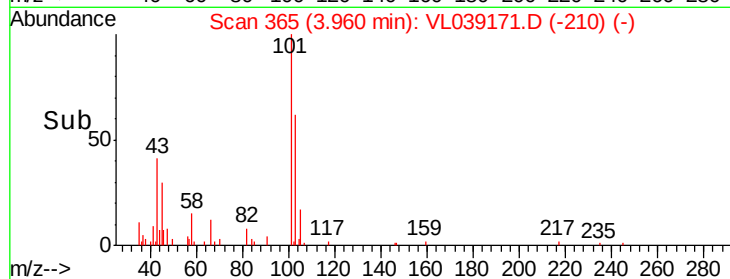
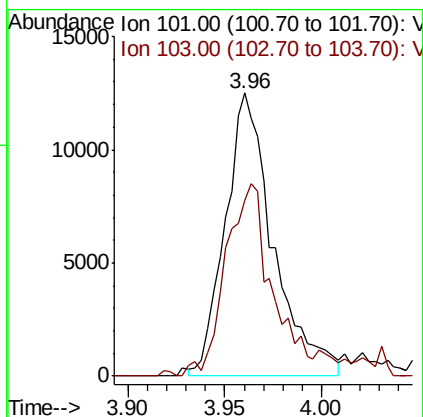
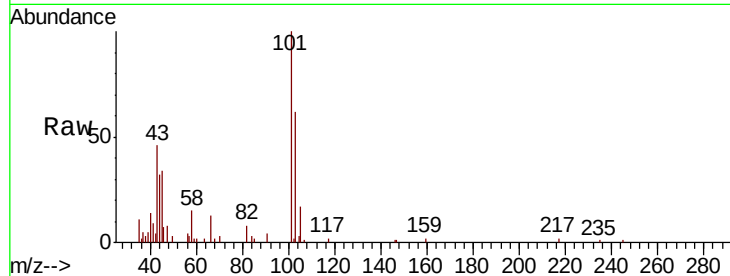
Time-->





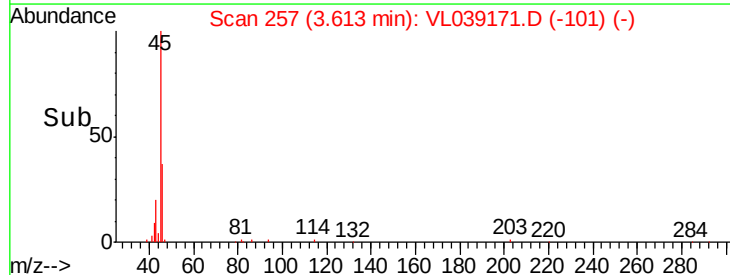
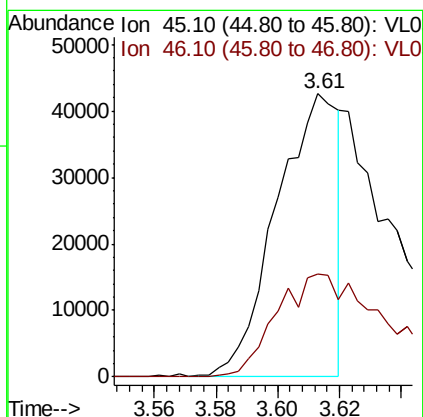
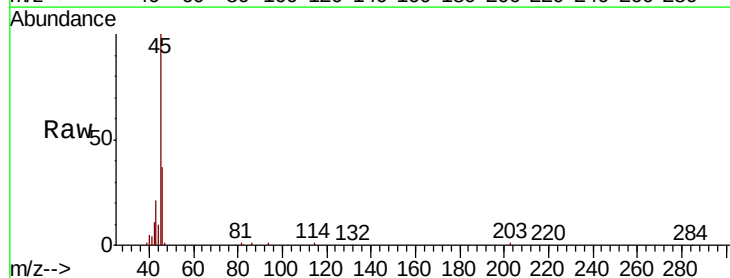
#11
 Trichlorofluoromethane
 Concen: 0.104 ppbv
 RT: 3.96
 Instrument: MSVOA_L
 Delta R.T.:
 Lab File: ClientSampleId :
 Acq: 4 Jun 2022 3:12

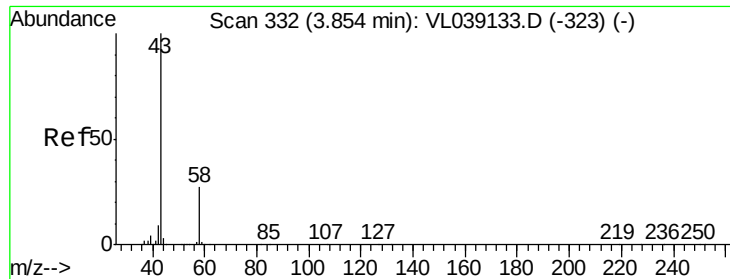
Tot Ion: 101 Resp: 21578
 Ion Ratio Lower Upper
 101 100
 103 60.2 51.7 77.5



#13
 Ethanol
 Concen: 14.950 ppbv
 RT: 3.61 min Scan# 257
 Delta R.T.: 0.00 min
 Lab File: VL039171.D
 Acq: 4 Jun 2022 3:12

Tgt Ion: 45 Resp: 59112
 Ion Ratio Lower Upper
 45 100
 46 80.4 0.0 0.0#





#15

Acetone

Concen: 2.843 ppbv

RT: 3.86 Instrument :

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

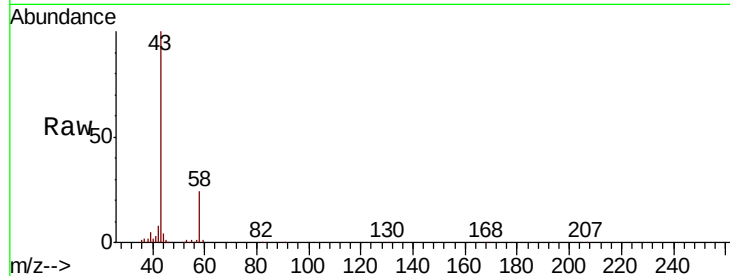
Acq: 4 Jun 2022 3:12

Tot Ion: 43 Resp: 387050

Ion Ratio Lower Upper

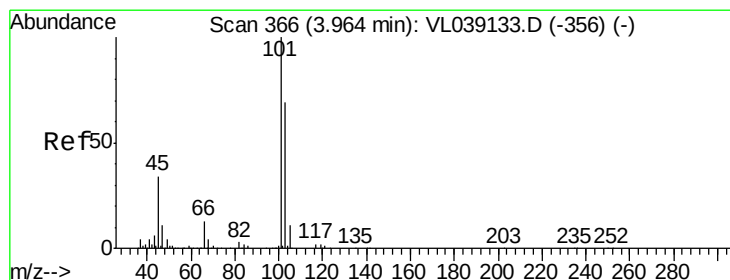
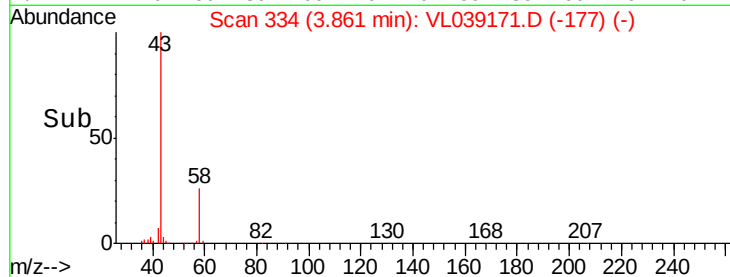
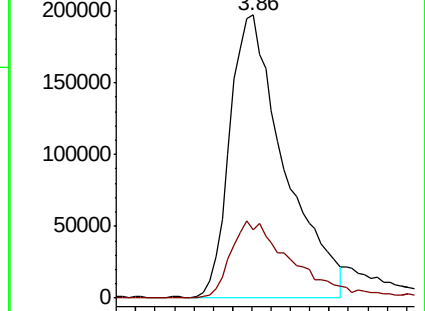
43 100

58 32.6 22.5 33.7



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.349 ppbv

RT: 3.98 min Scan# 370

Delta R.T. 0.01 min

Lab File: VL039171.D

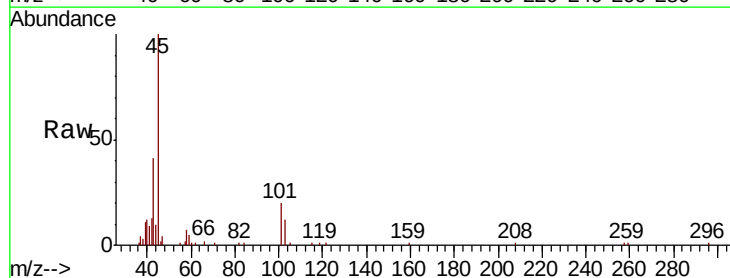
Acq: 4 Jun 2022 3:12

Tgt Ion: 45 Resp: 22253

Ion Ratio Lower Upper

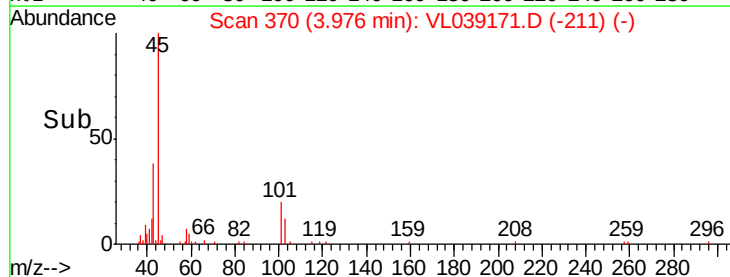
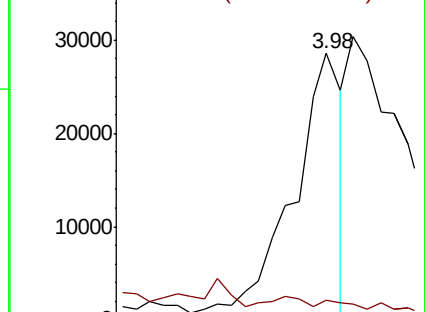
45 100

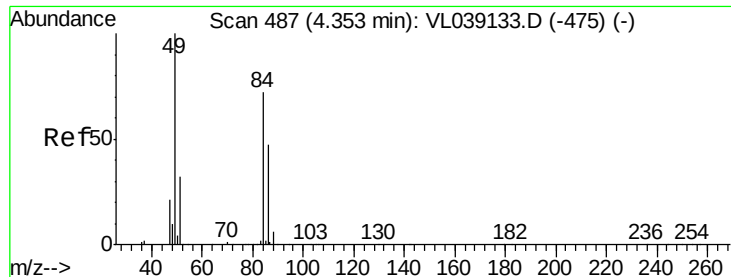
58 0.0 1.8 2.8#



Abundance Ion 45.10 (44.80 to 45.80): VL0

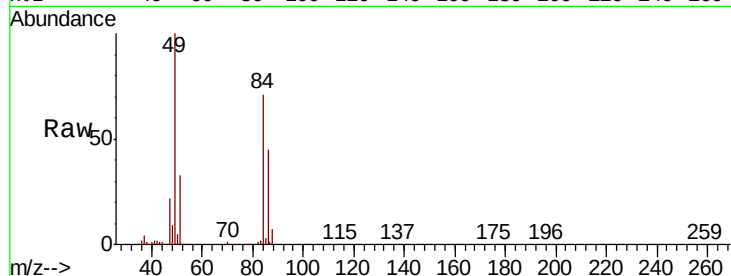
Ion 58.10 (57.80 to 58.80): VL0





#20
Methvlene Chloride
Concen: 9.364 ppbv
RT: 4.35
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 4 Jun 2022 3:12

Tot Ion:	84	Resp:	537185
Ion	Ratio	Lower	Upper
84	100		
49	141.6	111.1	166.7
51	46.6	35.3	52.9
86	63.5	51.9	77.9



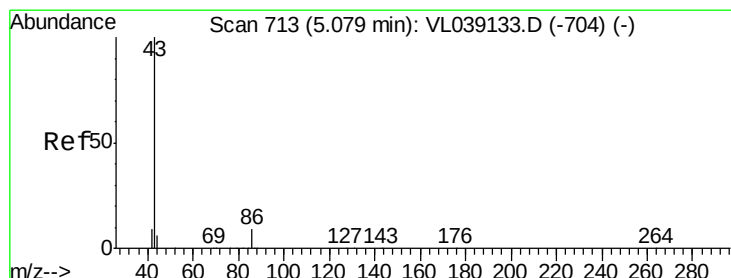
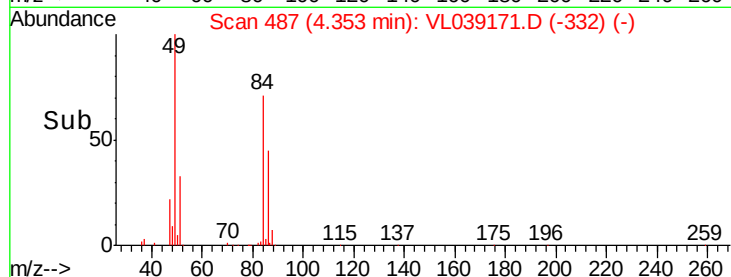
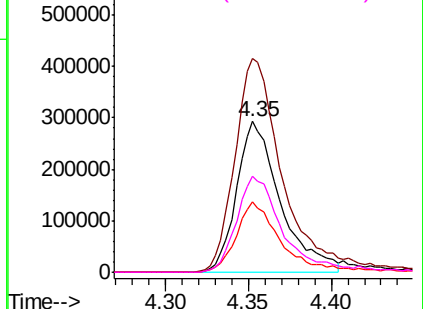
Abundance

Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

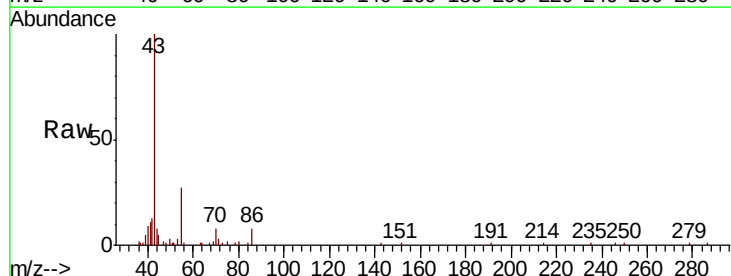
Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0



#23
Vinyl Acetate
Concen: 0.387 ppbv
RT: 5.07 min Scan# 711
Delta R.T. -0.01 min
Lab File: VL039171.D
Acq: 4 Jun 2022 3:12

Tgt Ion:	43	Resp:	43575
Ion	Ratio	Lower	Upper
43	100		
86	7.2	6.0	9.0
42	8.8	8.2	12.4
44	7.8	4.3	6.5#



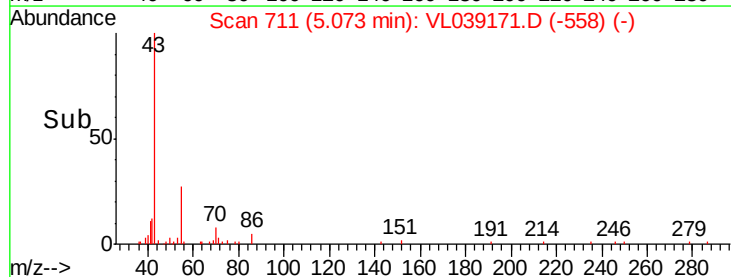
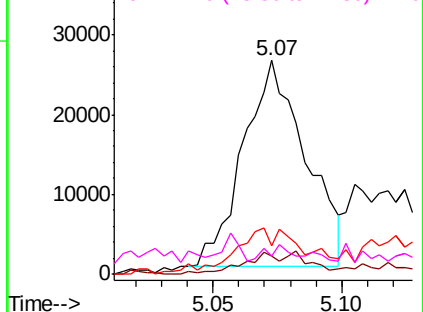
Abundance

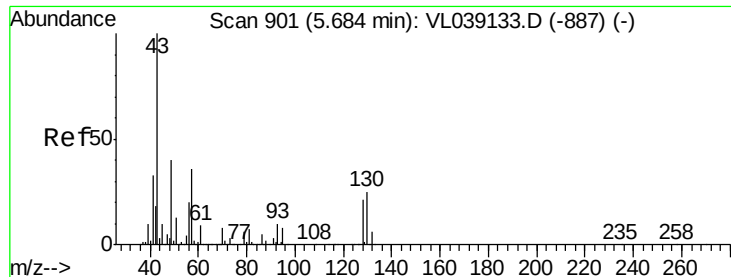
Ion 43.10 (42.80 to 43.80): VL0

Ion 86.10 (85.80 to 86.80): VL0

Ion 42.10 (41.80 to 42.80): VL0

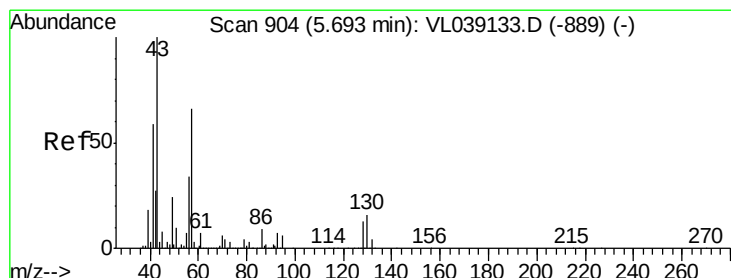
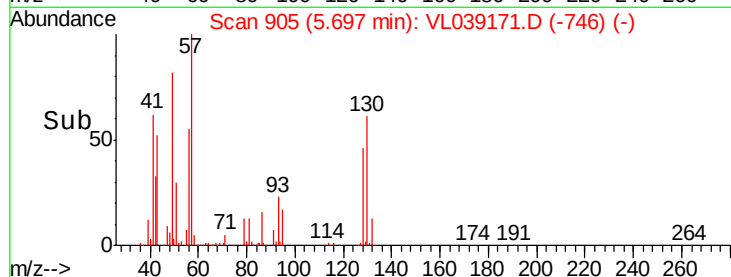
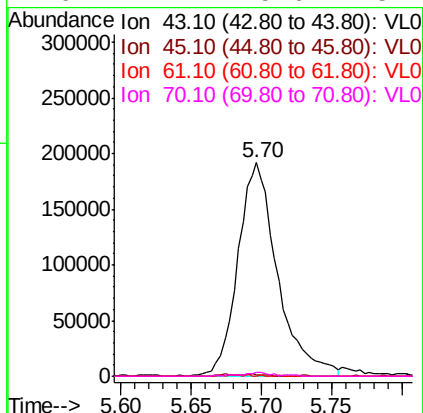
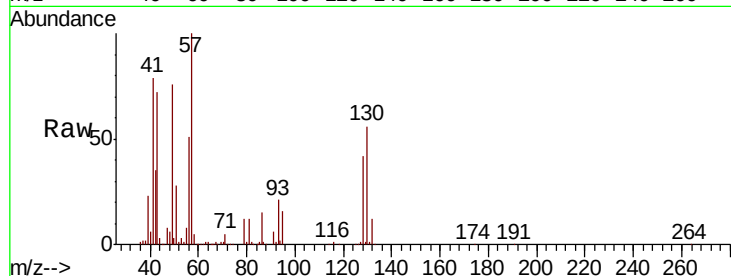
Ion 44.10 (43.80 to 44.80): VL0





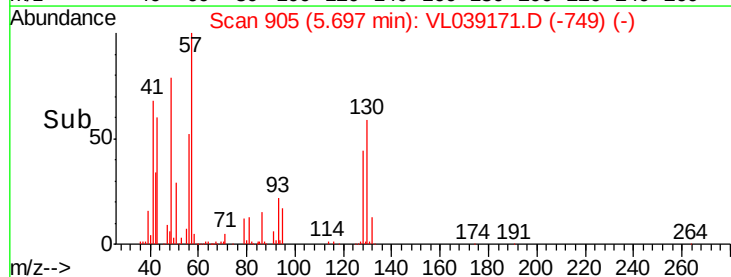
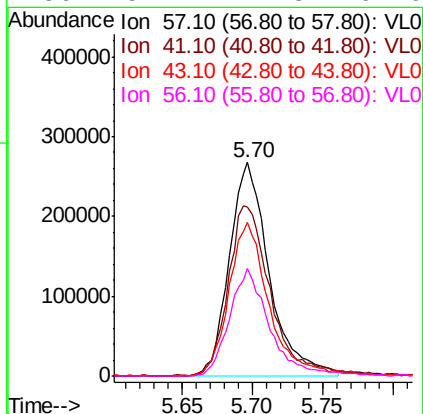
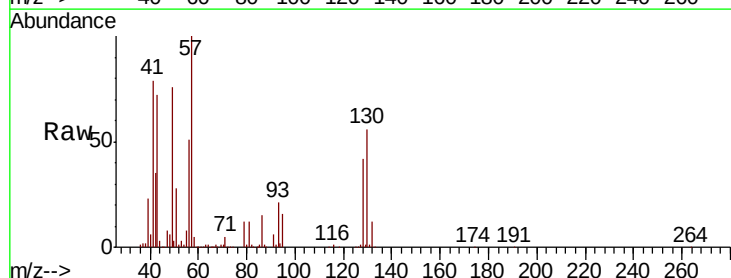
#25
Ethyl Acetate
Concen: 1.222 ppbv
RT: 5.70 min
Delta R.T.: 0.00 min
Lab File: VL039171.D
Acq: 4 Jun 2022 3:12

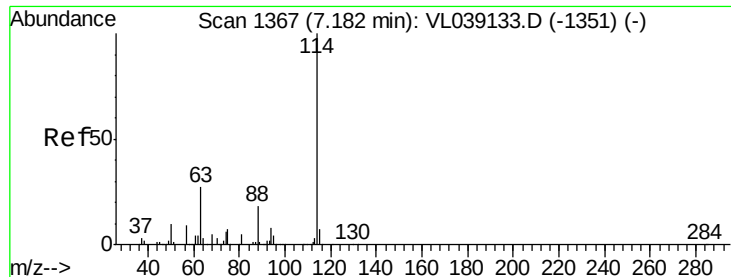
Tot Ion:	43	Resp:	374922
Ion	Ratio	Lower	Upper
43	100		
45	1.1	8.2	12.2#
61	0.6	8.4	12.6#
70	1.7	5.6	8.4#



#26
Hexane
Concen: 3.928 ppbv
RT: 5.70 min Scan# 905
Delta R.T.: 0.00 min
Lab File: VL039171.D
Acq: 4 Jun 2022 3:12

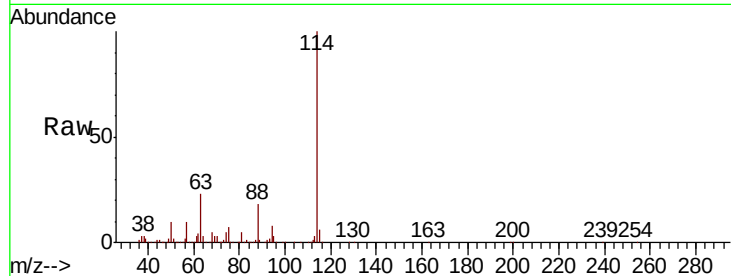
Tgt Ion:	57	Resp:	529570
Ion	Ratio	Lower	Upper
57	100		
41	86.6	72.4	108.6
43	73.7	187.0	280.6#
56	51.2	41.8	62.6



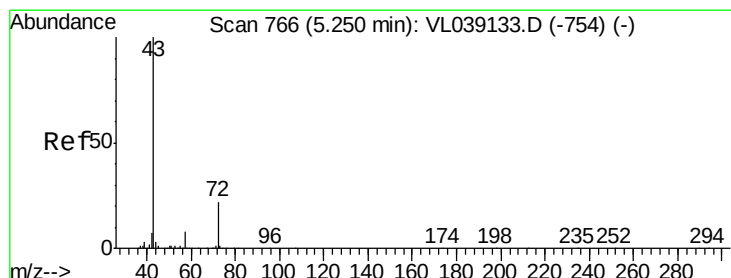
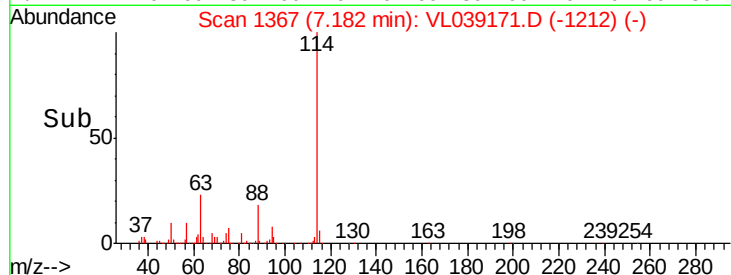
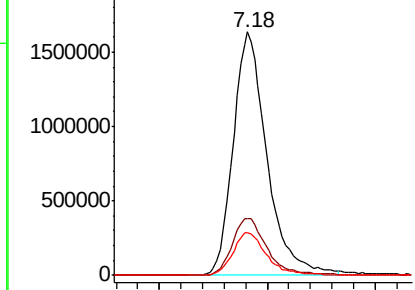


#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 4 Jun 2022 3:12

Tot Ion:114 Resp: 3558901
 Ion Ratio Lower Upper
 114 100
 63 24.6 21.7 32.5
 88 18.1 14.8 22.2

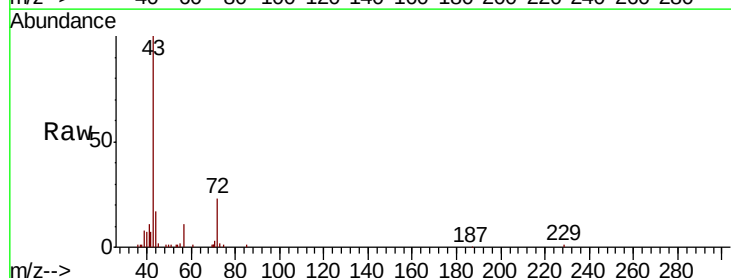


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

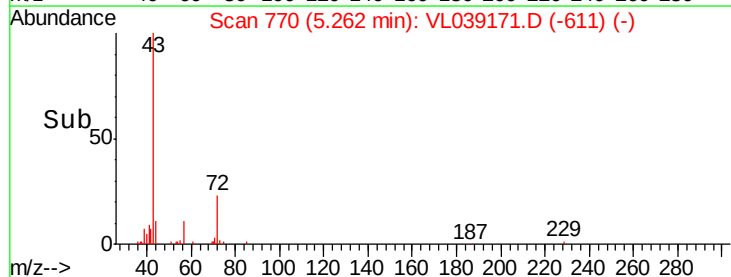
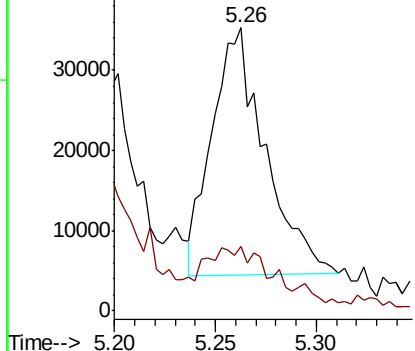


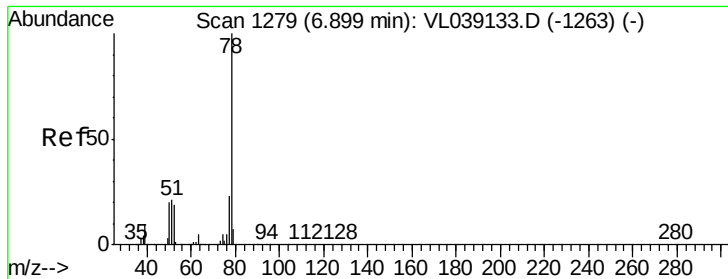
#34
 2-Butanone
 Concen: 0.291 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. 0.01 min
 Lab File: VL039171.D
 Acq: 4 Jun 2022 3:12

Tgt Ion: 43 Resp: 56245
 Ion Ratio Lower Upper
 43 100
 72 33.6 18.2 27.2#



Abundance Ion 43.10 (42.80 to 43.80): VL0
 Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.044 ppbv

RT: 6.90 Instrument:

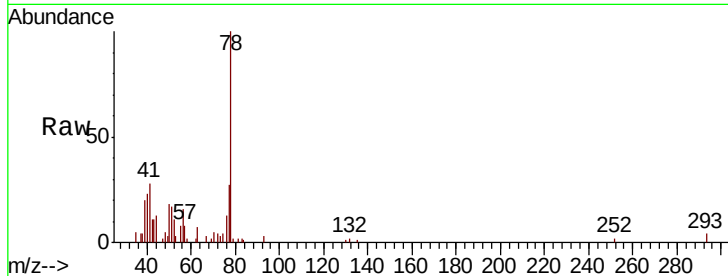
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

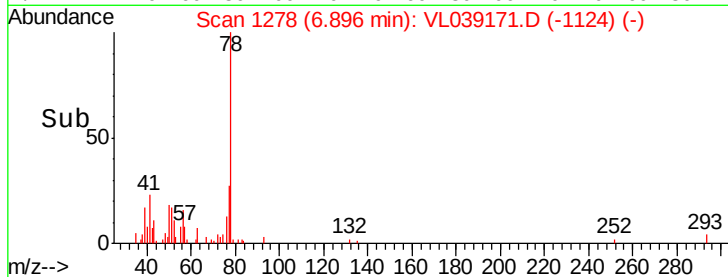
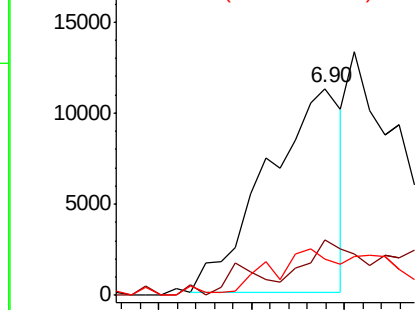
Acq: 4 Jun 2022 3:12 OA1DL

Tot Ion: 78 Resp: 12627

Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.6	27.8
50	13.1	15.8	23.8#



Abundance Ion 78.10 (77.80 to 78.80): VL0
Ion 77.10 (76.80 to 77.80): VL0
Ion 50.10 (49.80 to 50.80): VL0



#39

1,2-Dichloropropane

Concen: 7.389 ppbv

RT: 7.18 min Scan# 1367

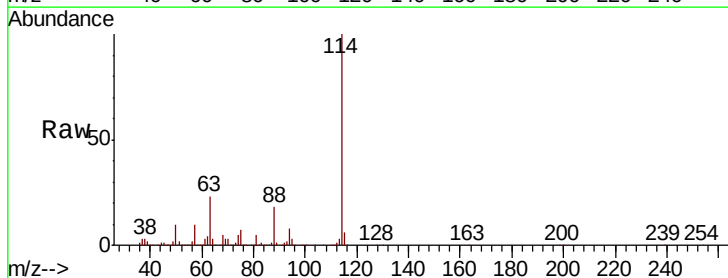
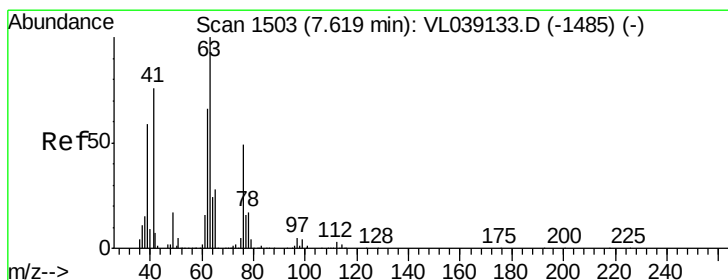
Delta R.T. -0.44 min

Lab File: VL039171.D

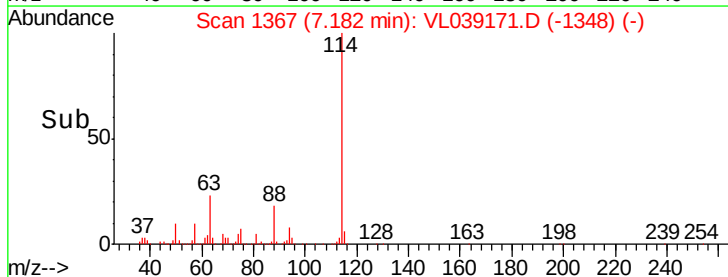
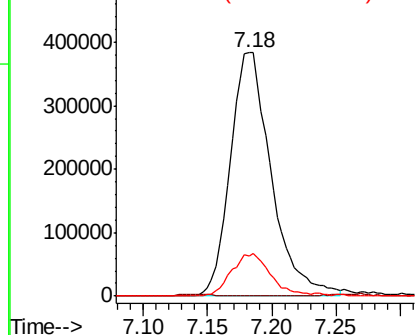
Acq: 4 Jun 2022 3:12

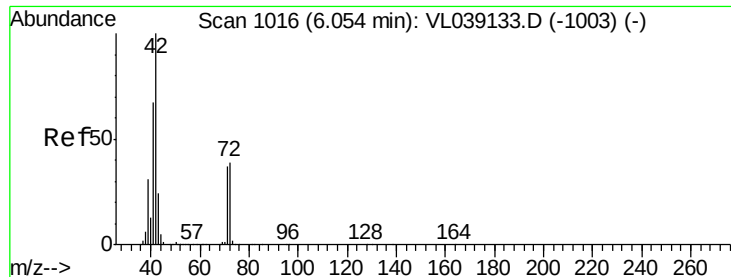
Tgt Ion: 63 Resp: 849138

Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	16.2	52.9	79.3#



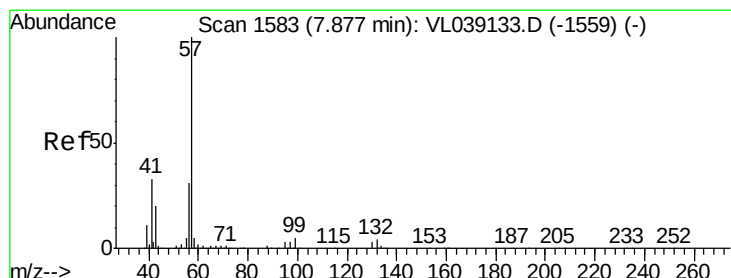
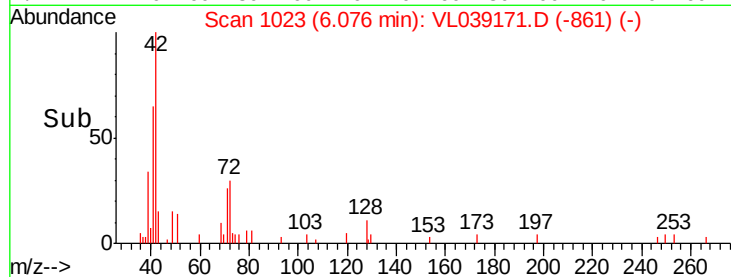
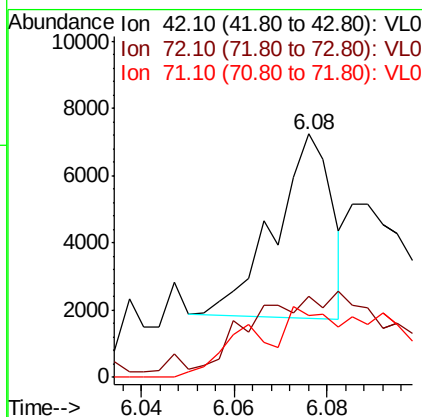
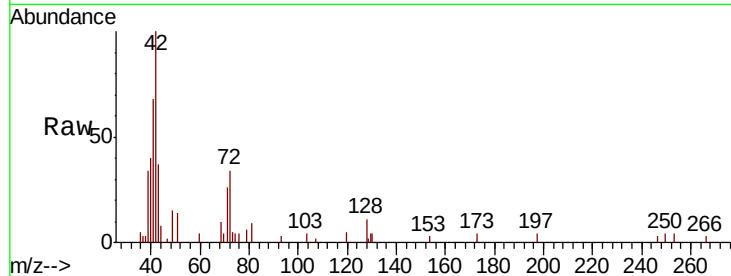
Abundance Ion 63.10 (62.80 to 63.80): VL0
Ion 41.10 (40.80 to 41.80): VL0
Ion 62.10 (61.80 to 62.80): VL0





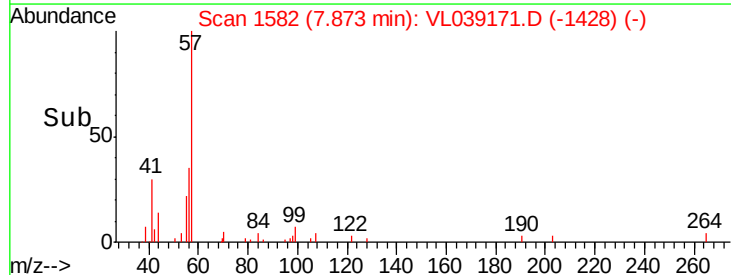
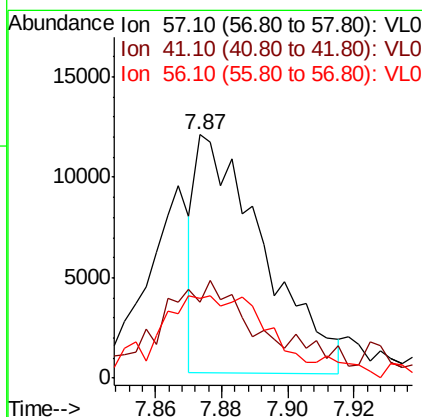
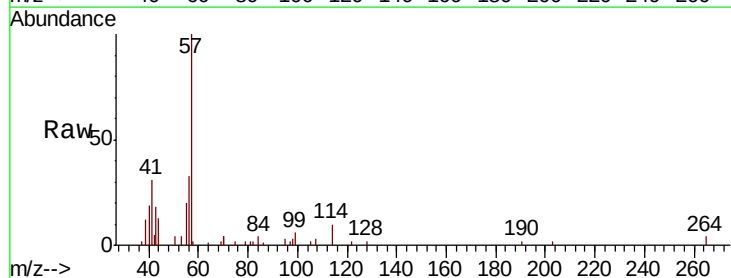
#41
Tetrahydrofuran
Concen: 0.040 ppbv
RT: 6.08
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId:
Acq: 4 Jun 2022 3:12

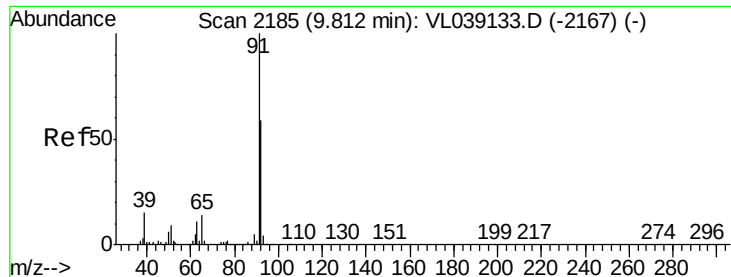
Tot Ion	Ratio	Lower	Upper
42	100		
72	0.0	32.0	48.0#
71	99.7	31.1	46.7#



#44
2,2,4-Trimethylpentane
Concen: 0.033 ppbv
RT: 7.87 min Scan# 1582
Delta R.T.: -0.00 min
Lab File: VL039171.D
Acq: 4 Jun 2022 3:12

Tgt Ion	Ratio	Lower	Upper
57	100		
41	85.7	26.2	39.4#
56	65.6	24.7	37.1#





#53

Toluene

Concen: 0.116 ppbv

RT: 9.81 Instrument: MSVOA_1

Delta R.T. -0.00 min

Lab File: ClientSampleId: OA1DL

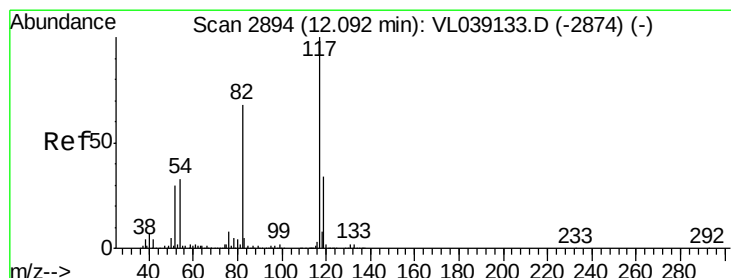
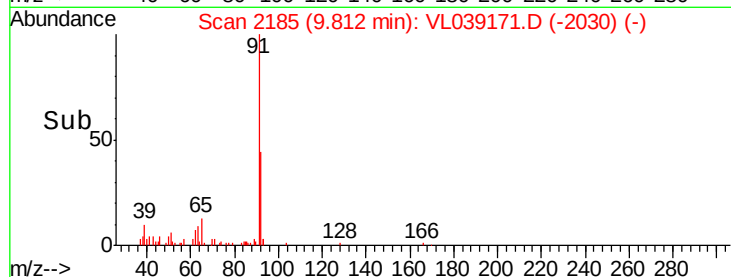
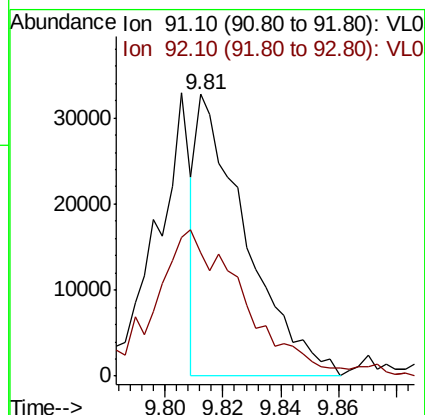
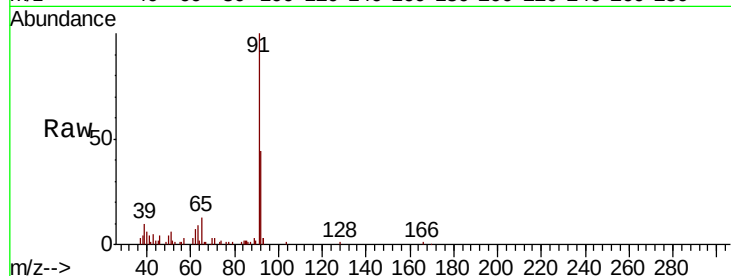
Acq: 4 Jun 2022 3:12

Tot Ion: 91 Resp: 38663

Ion Ratio Lower Upper

91 100

92 97.1 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: VL039171.D

Acq: 4 Jun 2022 3:12

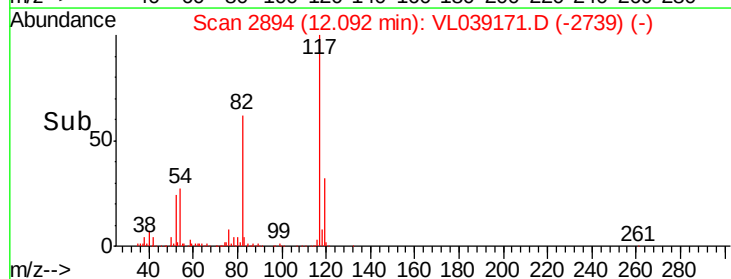
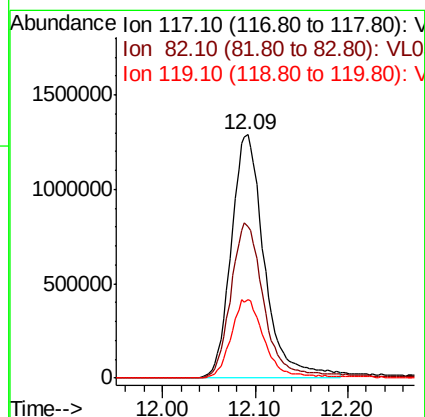
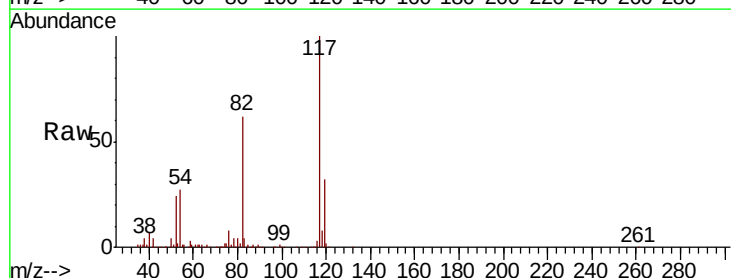
Tgt Ion: 117 Resp: 3206015

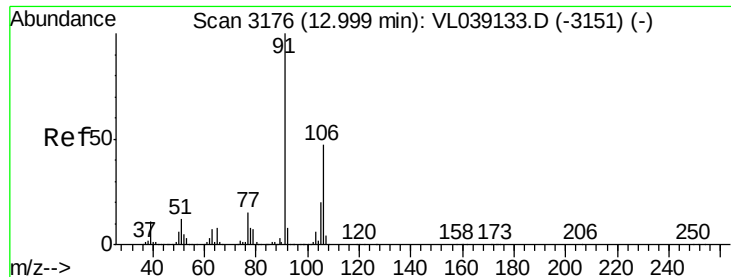
Ion Ratio Lower Upper

117 100

82 66.2 55.1 82.7

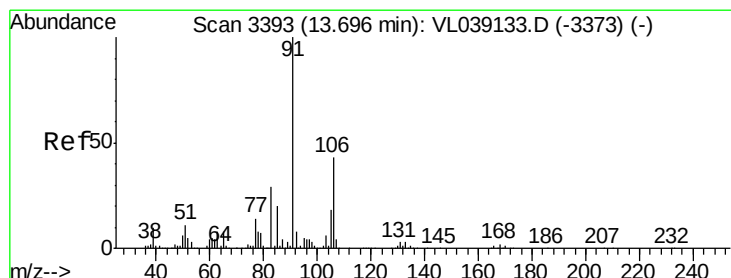
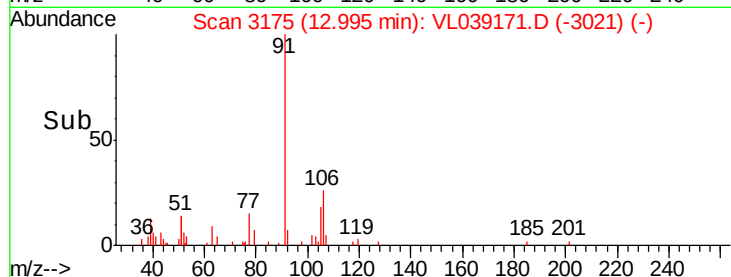
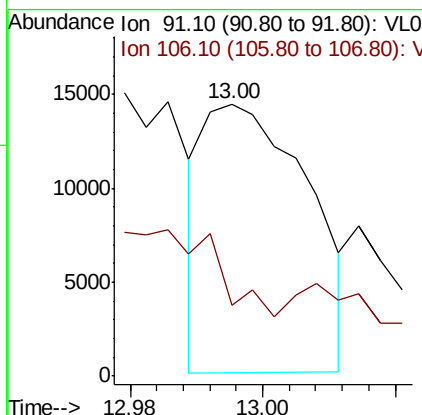
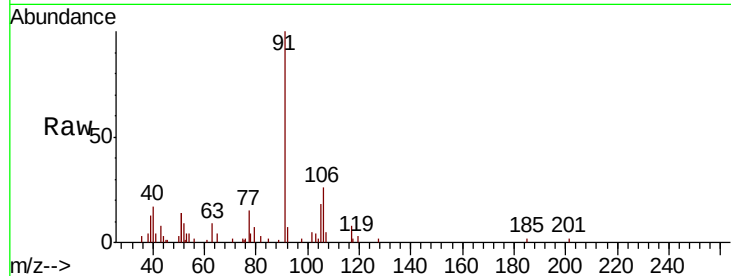
119 33.9 24.7 37.1





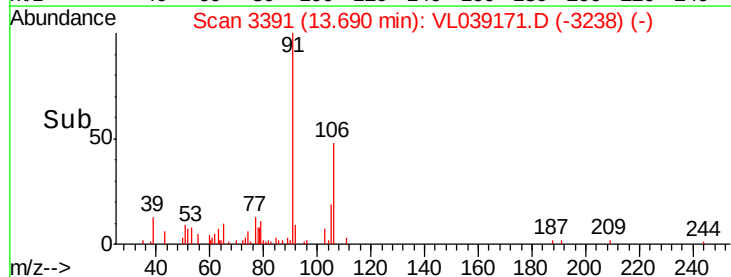
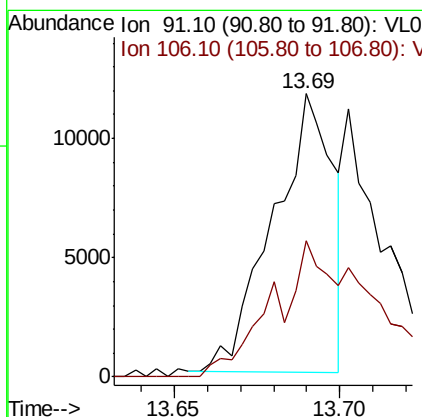
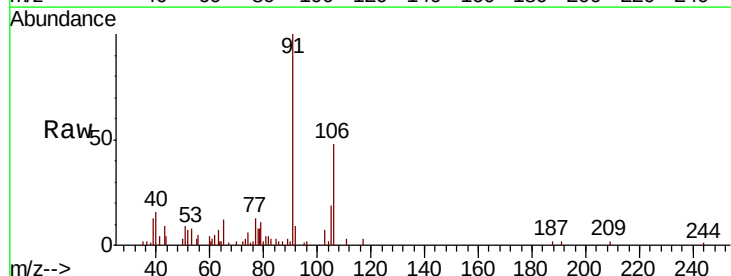
#59
m/p-Xylene
Concen: 0.040 ppbv
RT: 13.00
Delta R.T. MSVOA_L
Lab File: ClientSampleId :
Acq: 4 Jun 2022 3:12

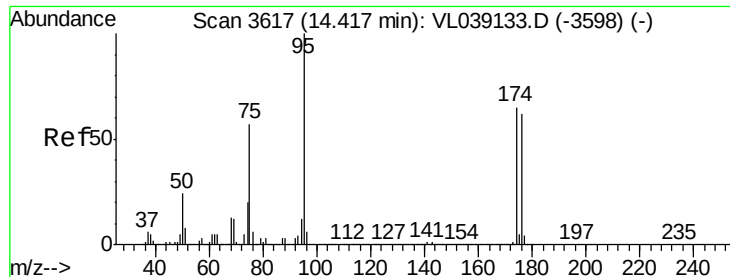
Tot Ion: 91 Resp: 15649
Ion Ratio Lower Upper
91 100
106 0.0 34.3 51.5#



#60
o-Xylene
Concen: 0.040 ppbv
RT: 13.69 min Scan# 3391
Delta R.T. -0.01 min
Lab File: VL039171.D
Acq: 4 Jun 2022 3:12

Tgt Ion: 91 Resp: 14730
Ion Ratio Lower Upper
91 100
106 82.8 22.3 66.9#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.279 ppbv

RT: 14.42

Delta R.T. MSVOA_L

Lab File: ClientSampleId :

Acq: 4 Jun 2022 3:12

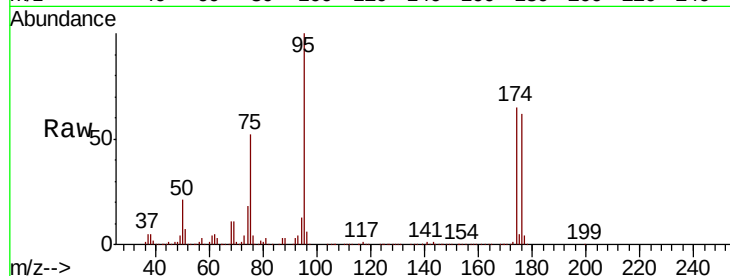
Tot Ion: 95 Resp: 2459443

Ion Ratio Lower Upper

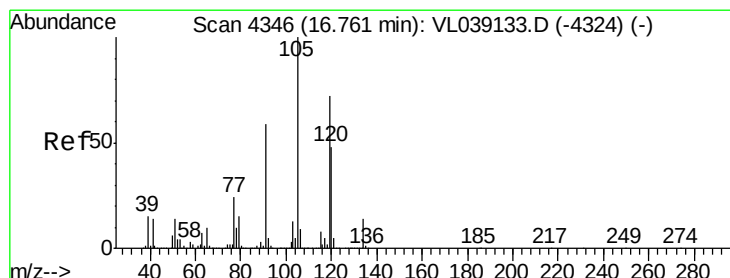
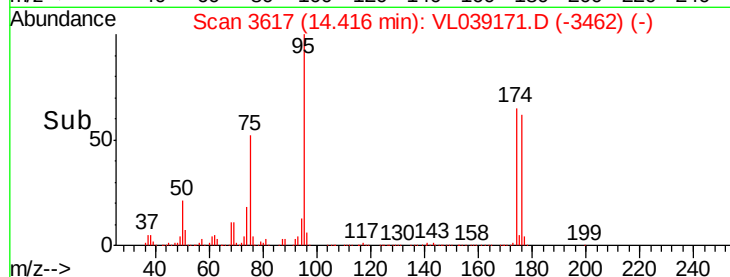
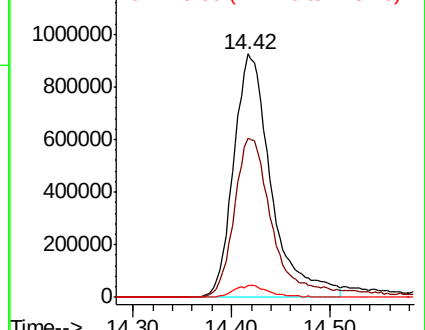
95 100

174 69.9 53.8 80.8

175 5.0 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



#74

1,2,4-Trimethylbenzene

Concen: 0.044 ppbv

RT: 16.76 min Scan# 4347

Delta R.T. 0.00 min

Lab File: VL039171.D

Acq: 4 Jun 2022 3:12

Tgt Ion:105 Resp: 18768

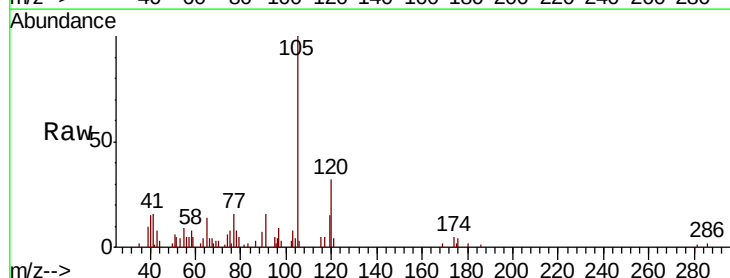
Ion Ratio Lower Upper

105 100

120 29.4 38.1 57.1#

91 12.2 47.4 71.0#

77 13.1 19.5 29.3#



Abundance Ion 105.10 (104.80 to 105.80): V
Ion 120.20 (119.90 to 120.90): V
Ion 91.10 (90.80 to 91.80): VL0
Ion 77.10 (76.80 to 77.80): VL0

