

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062422\
 Data File : VL039348.D
 Acq On : 24 Jun 2022 19:43
 Operator : SY/AP
 Sample : N3453-05DUP
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-1DUP

Quant Time: Jun 27 01:51:04 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	1072791	10.00	ppbv	-0.01
33) 1,4-Difluorobenzene	7.17	114	2974573	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.08	117	2688805	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2021975	9.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	91.00%

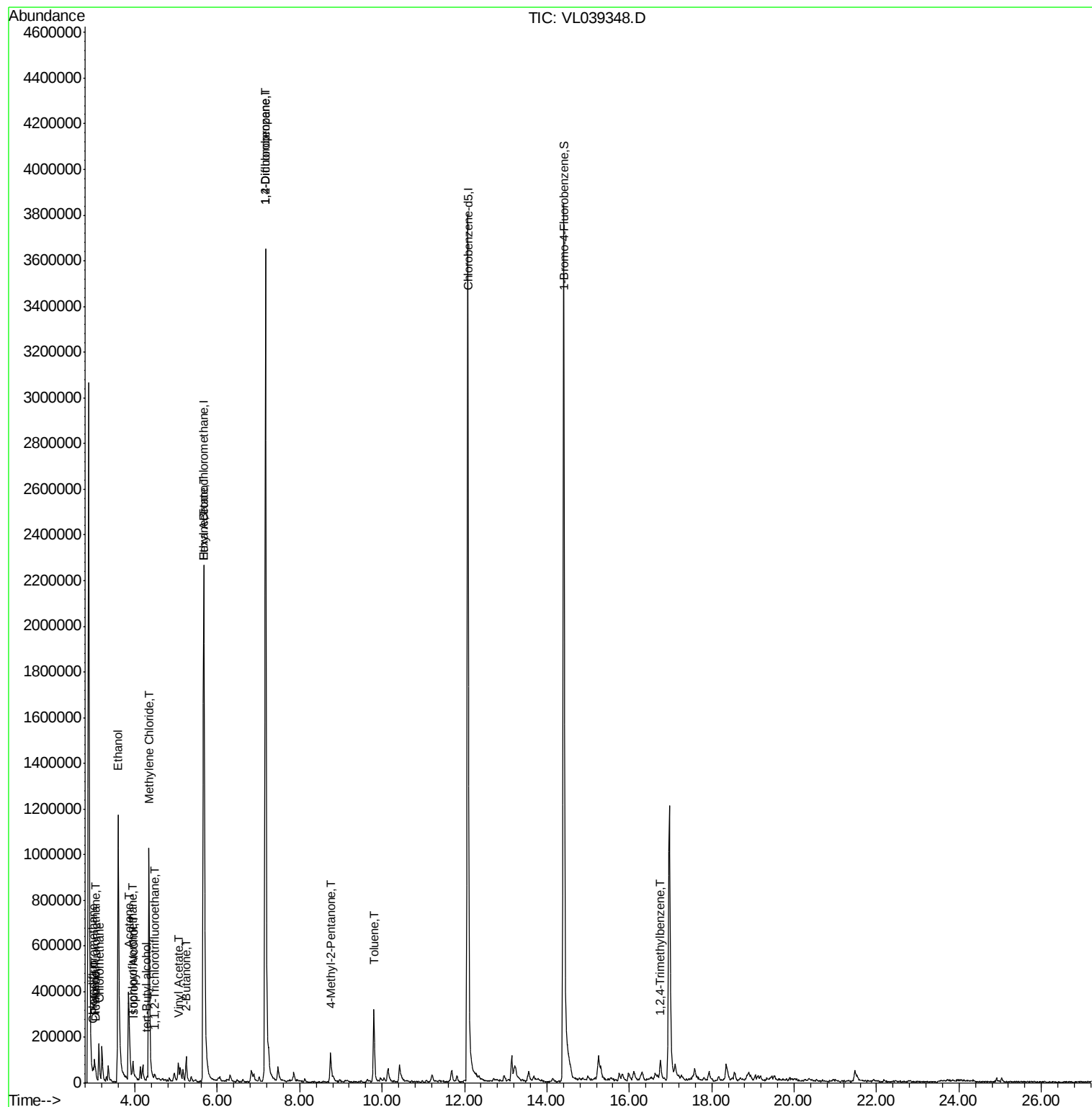
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.05	85	36997	0.196	ppbv	99
3) Chlorodifluoromethane	2.98	51	69281	0.508	ppbv #	88
4) Chloromethane	3.14	50	14014	0.200	ppbv	94
9) Propene	3.02	41	24606	0.413	ppbv	88
11) Trichlorofluoromethane	3.95	101	39890	0.234	ppbv	98
12) 1,1,2-Trichlorotrifluoroet	4.48	101	4585	0.041	ppbv #	10
13) Ethanol	3.59	45	1515962	467.038	ppbv #	100
15) Acetone	3.84	43	504920	4.518	ppbv	97
17) tert-Butyl alcohol	4.29	59	7391	0.085	ppbv #	70
19) Isopropyl Alcohol	3.96	45	15281	0.292	ppbv #	1
20) Methylene Chloride	4.34	84	421205	8.944	ppbv	93
23) Vinyl Acetate	5.05	43	65297	0.706	ppbv #	72
25) Ethyl Acetate	5.68	43	286535	1.138	ppbv #	78
26) Hexane	5.68	57	400567	3.619	ppbv #	39
34) 2-Butanone	5.24	43	126253	0.781	ppbv	91
39) 1,2-Dichloropropane	7.17	63	733860	7.640	ppbv #	25
50) 4-Methyl-2-Pentanone	8.74	43	97788	0.404	ppbv	92
53) Toluene	9.80	91	250698	0.902	ppbv	98
74) 1,2,4-Trimethylbenzene	16.75	105	36047	0.100	ppbv #	68

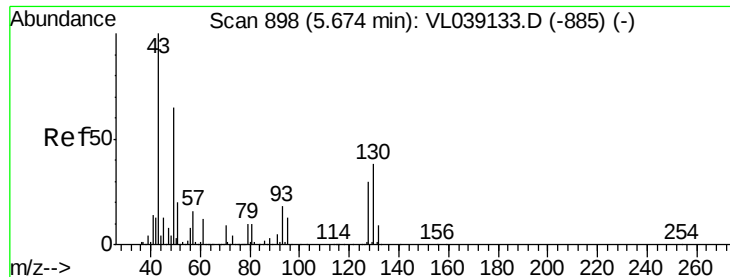
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument: MSVOA_1

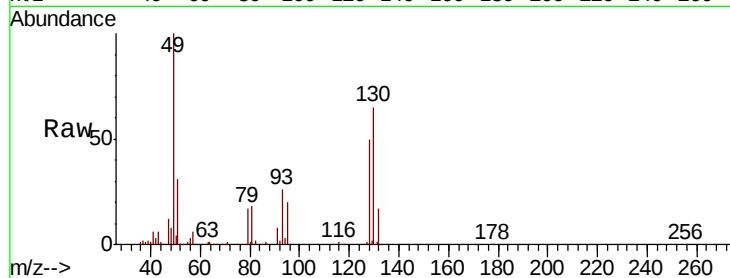
Delta R.T. ClientSampleId:

Lab File: IA-1DUP

Acq: 24 Jun 2022 19:43

Tot Ion: 49 Resp: 1072791

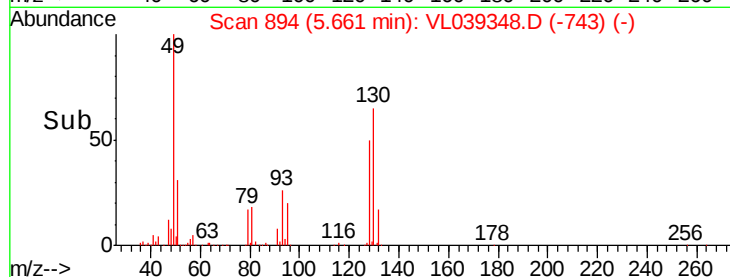
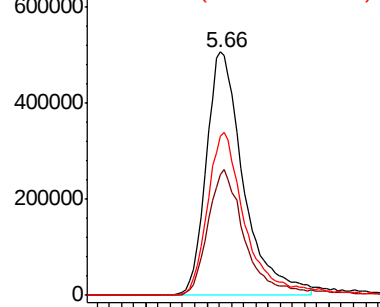
Ion	Ratio	Lower	Upper
49	100		
128	52.8	24.7	74.1
130	69.8	31.4	94.0



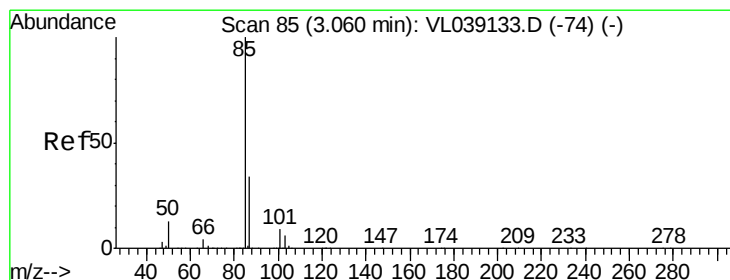
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



Time-->



#2

Dichlorodifluoromethane

Concen: 0.196 ppbv

RT: 3.05 min Scan# 81

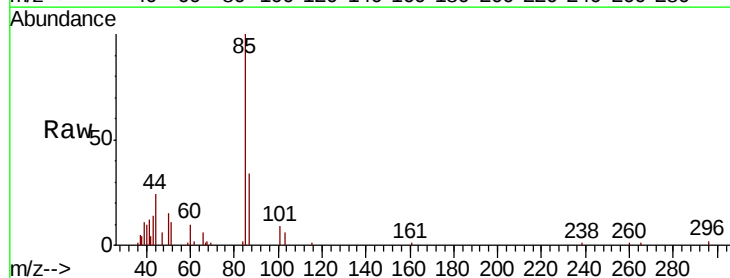
Delta R.T. -0.01 min

Lab File: VL039348.D

Acq: 24 Jun 2022 19:43

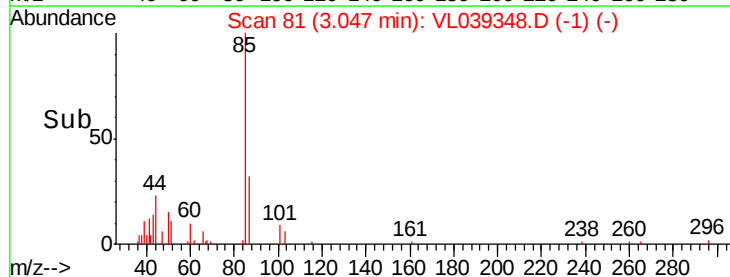
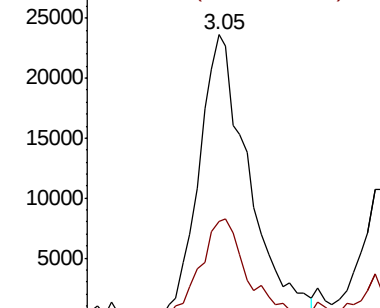
Tgt Ion: 85 Resp: 36997

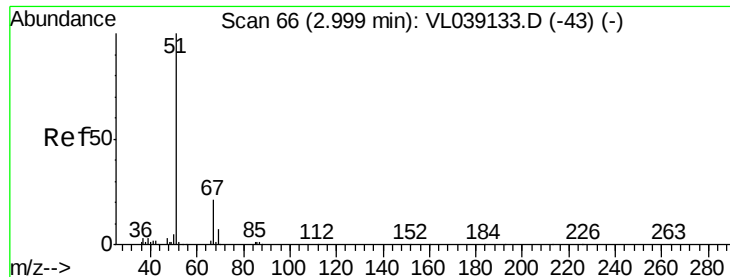
Ion	Ratio	Lower	Upper
85	100		
87	34.1	26.9	40.3



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.508 ppbv

RT: 2.98 Instrument: MSVOA_1

Delta R.T. ClientSampleId:

Lab File: IA-1DUP

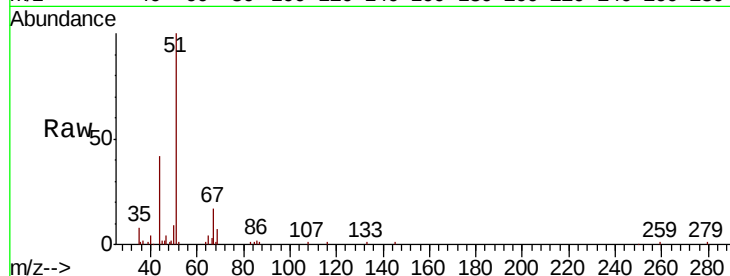
Acq: 24 Jun 2022 19:43

Tot Ion: 51 Resp: 69281

Ion Ratio Lower Upper

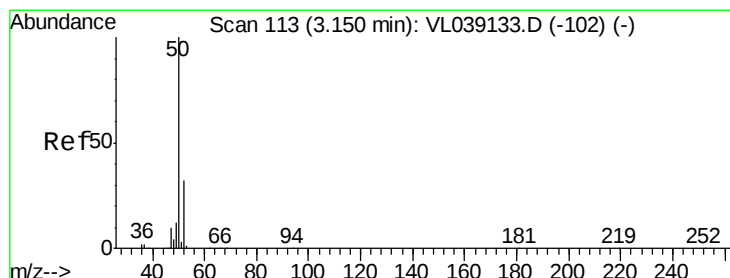
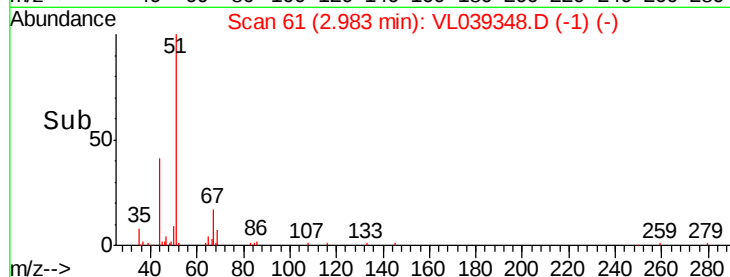
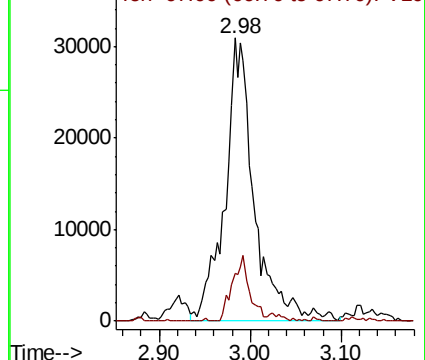
51 100

67 14.8 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: 0.200 ppbv

RT: 3.14 min Scan# 109

Delta R.T. -0.01 min

Lab File: VL039348.D

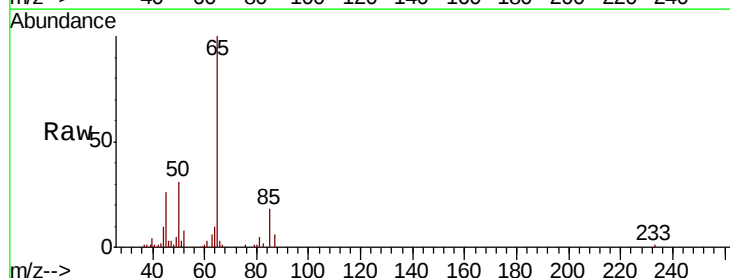
Acq: 24 Jun 2022 19:43

Tgt Ion: 50 Resp: 14014

Ion Ratio Lower Upper

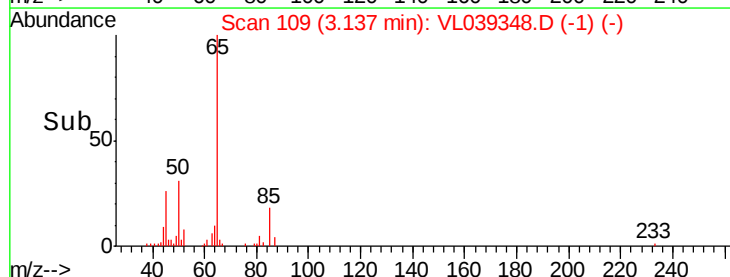
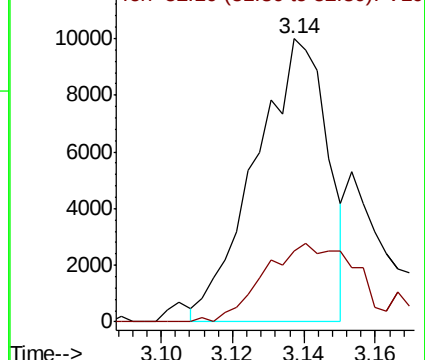
50 100

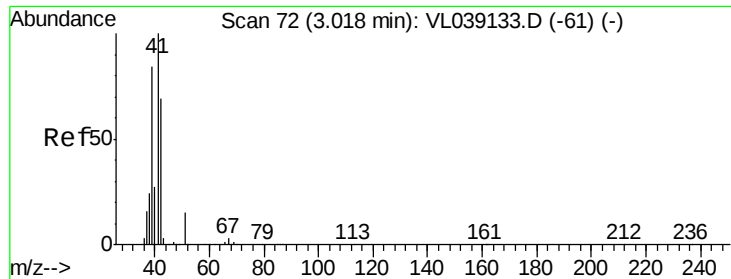
52 28.9 25.9 38.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.413 ppbv

RT: 3.02 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

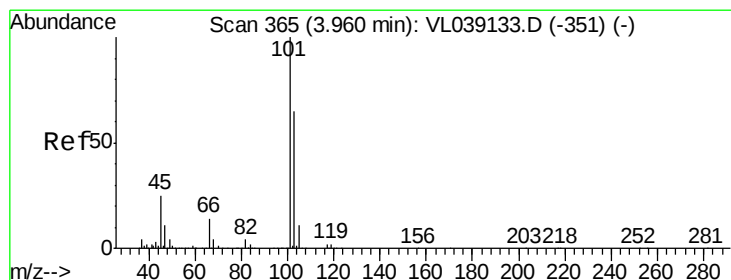
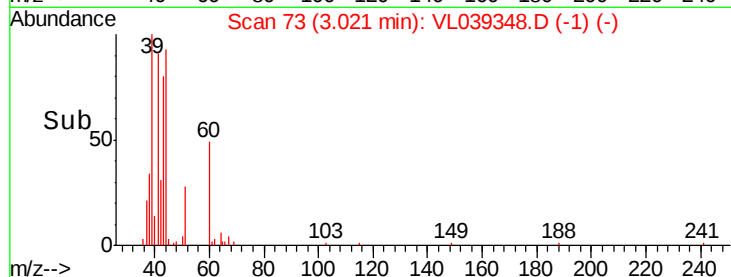
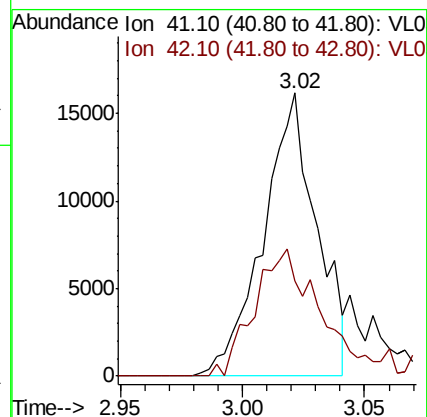
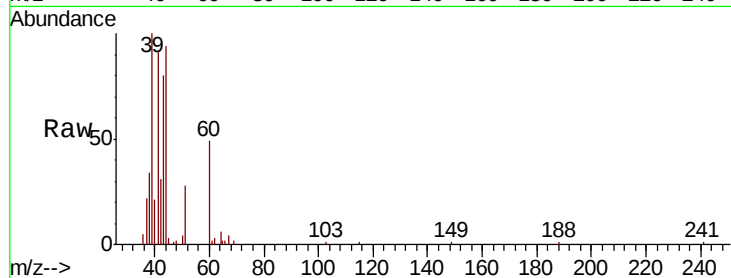
Acq: 24 Jun 2022 19:43

Tot Ion: 41 Resp: 24606

Ion Ratio Lower Upper

41 100

42 59.7 55.4 83.2



#11

Trichlorofluoromethane

Concen: 0.234 ppbv

RT: 3.95 min Scan# 362

Delta R.T. -0.01 min

Lab File: VL039348.D

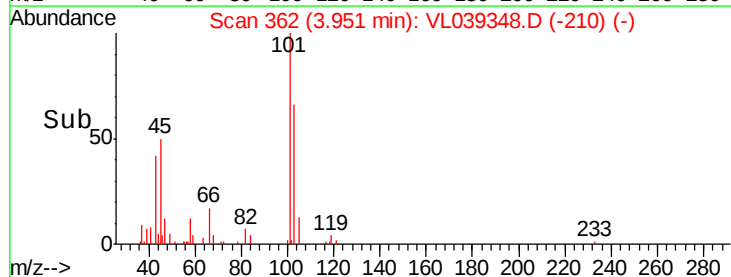
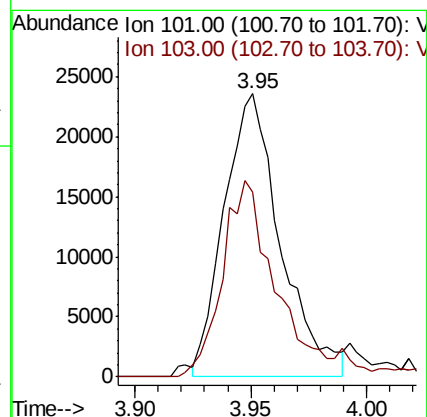
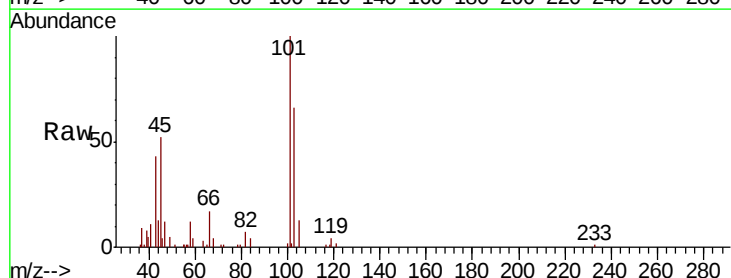
Acq: 24 Jun 2022 19:43

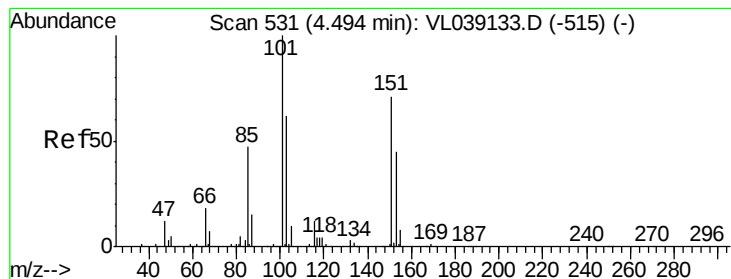
Tgt Ion:101 Resp: 39890

Ion Ratio Lower Upper

101 100

103 63.4 51.7 77.5





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.041 ppbv

RT: 4.48 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

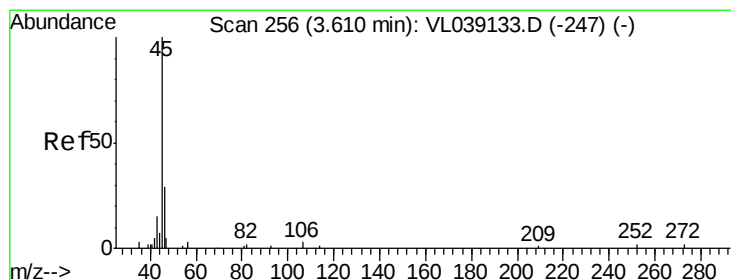
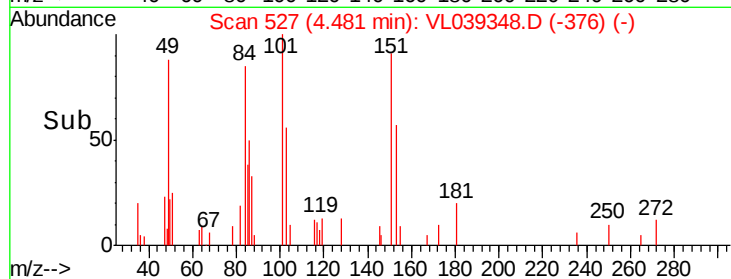
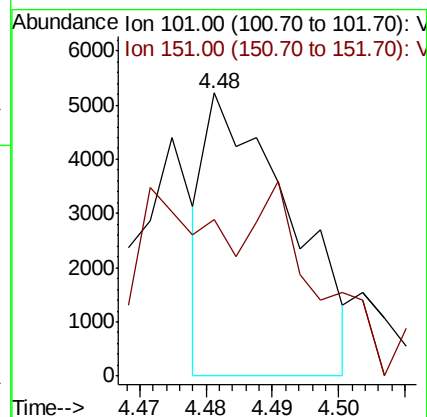
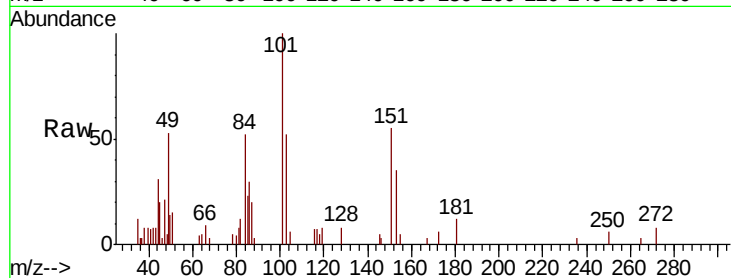
Acq: 24 Jun 2022 19:43

Tot Ion: 101 Resp: 4585

Ion Ratio Lower Upper

101 100

151 150.4 59.4 89.0#



#13

Ethanol

Concen: 467.038 ppbv

RT: 3.59 min Scan# 250

Delta R.T. -0.02 min

Lab File: VL039348.D

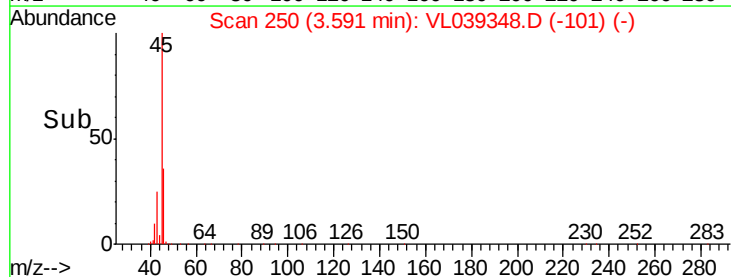
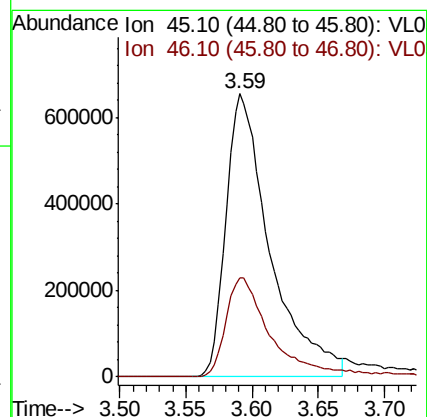
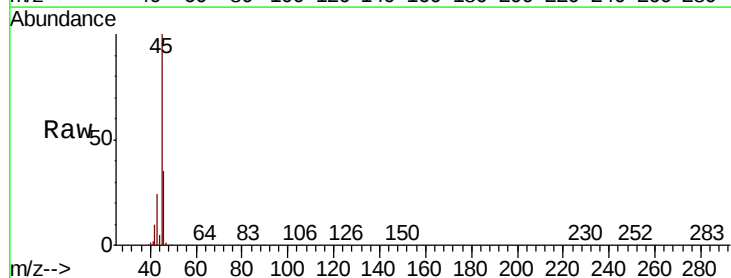
Acq: 24 Jun 2022 19:43

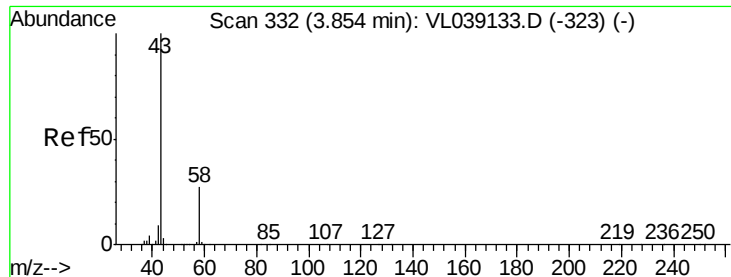
Tgt Ion: 45 Resp: 1515962

Ion Ratio Lower Upper

45 100

46 37.6 0.0 0.0#





#15

Acetone

Concen: 4.518 ppbv

RT: 3.84 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

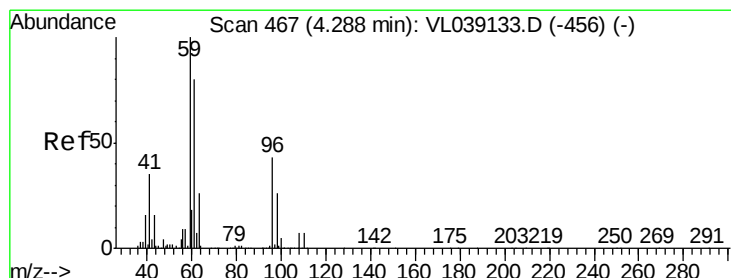
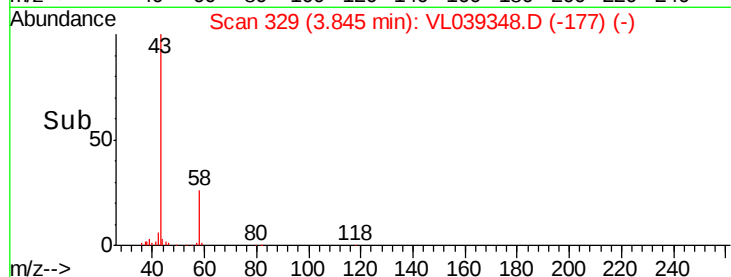
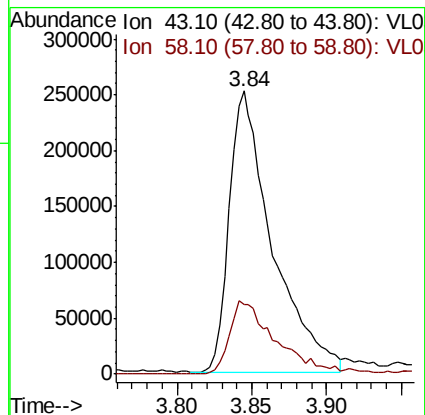
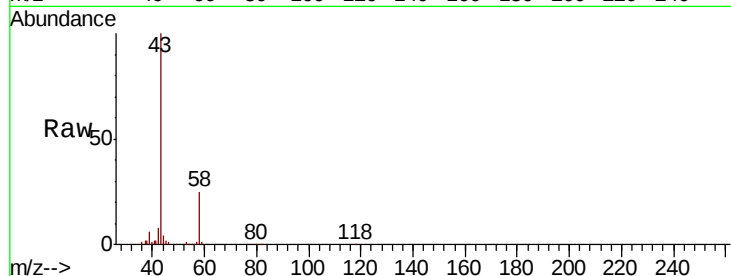
Acq: 24 Jun 2022 19:43

Tot Ion: 43 Resp: 504920

Ion Ratio Lower Upper

43 100

58 29.8 22.5 33.7



#17

tert-Butyl alcohol

Concen: 0.085 ppbv

RT: 4.29 min Scan# 467

Delta R.T. -0.00 min

Lab File: VL039348.D

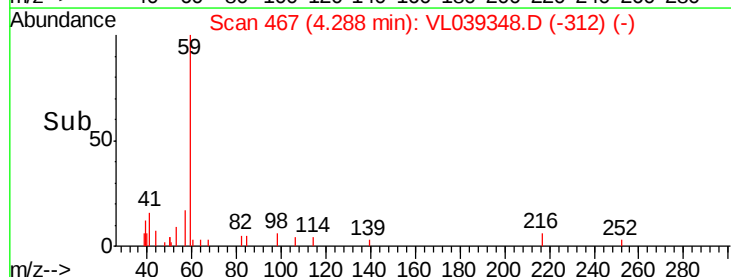
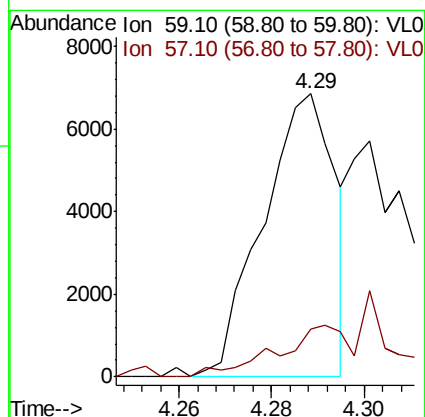
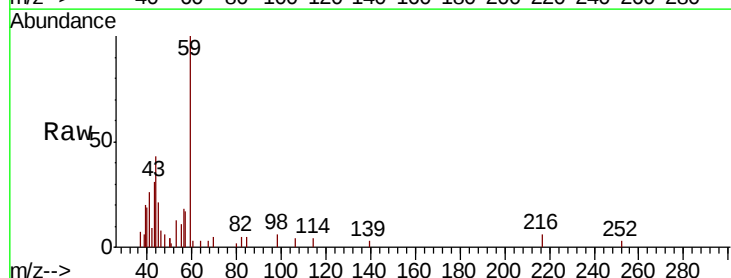
Acq: 24 Jun 2022 19:43

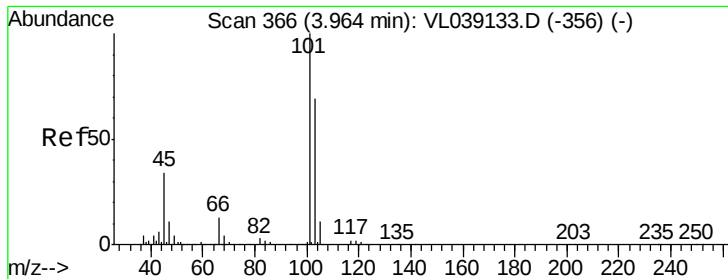
Tgt Ion: 59 Resp: 7391

Ion Ratio Lower Upper

59 100

57 0.0 9.1 13.7#





#19

Isopropyl Alcohol

Concen: 0.292 ppbv

RT: 3.96

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

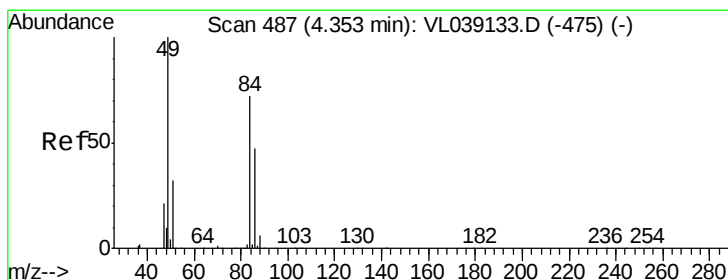
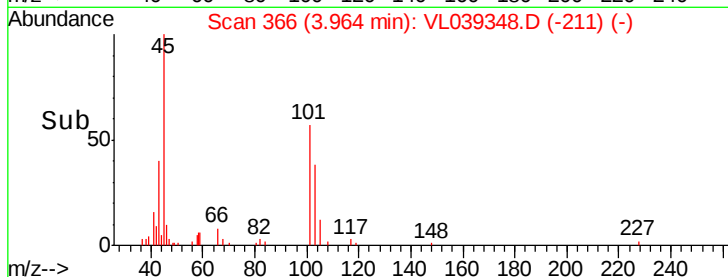
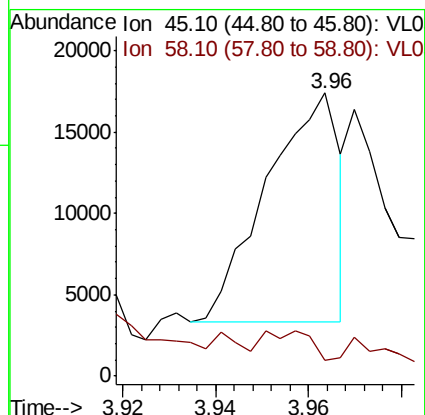
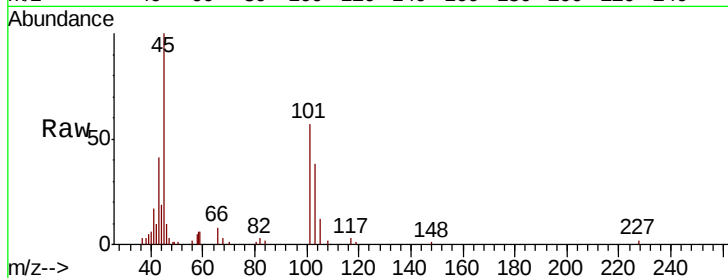
Acq: 24 Jun 2022 19:43

Tot Ion: 45 Resp: 15281

Ion Ratio Lower Upper

45 100

58 953.6 1.8 2.8#



#20

Methylene Chloride

Concen: 8.944 ppbv

RT: 4.34 min Scan# 483

Delta R.T. -0.01 min

Lab File: VL039348.D

Acq: 24 Jun 2022 19:43

Tgt Ion: 84 Resp: 421205

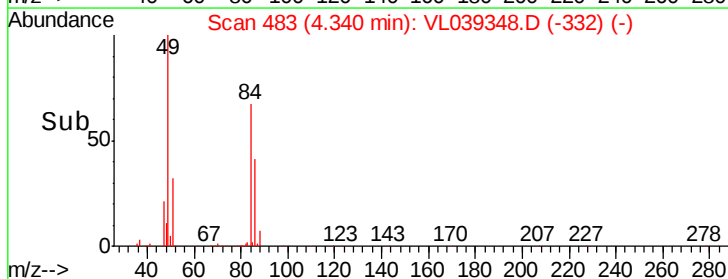
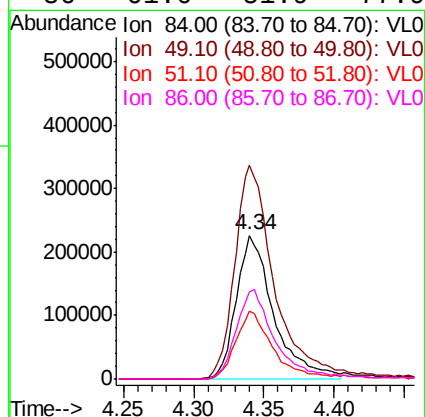
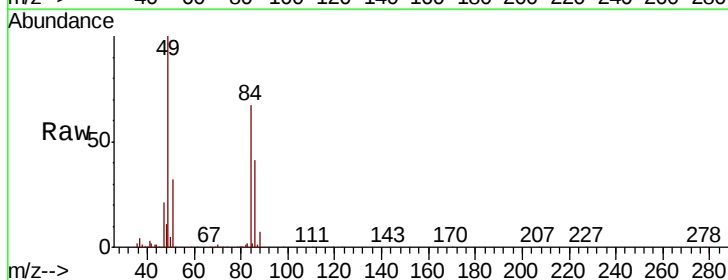
Ion Ratio Lower Upper

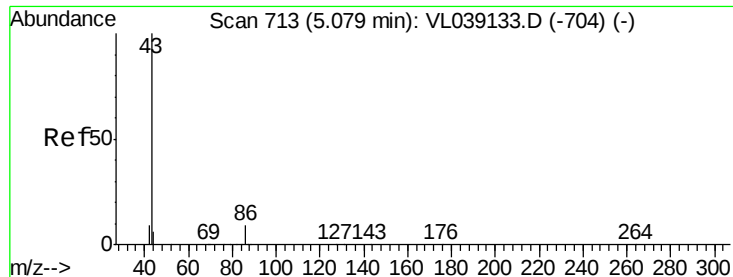
84 100

49 148.8 111.1 166.7

51 47.2 35.3 52.9

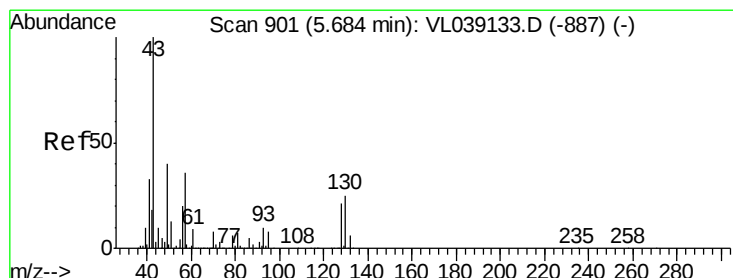
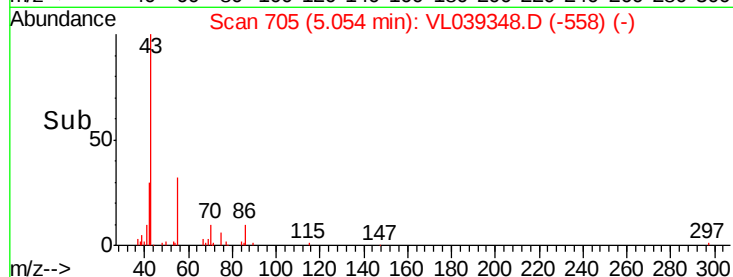
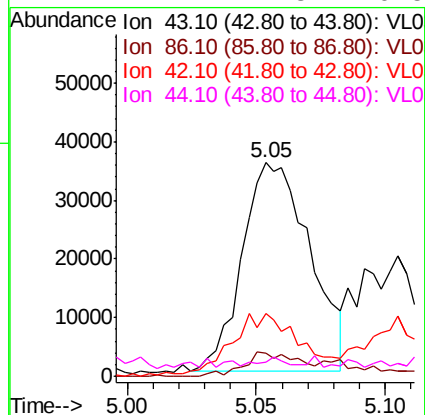
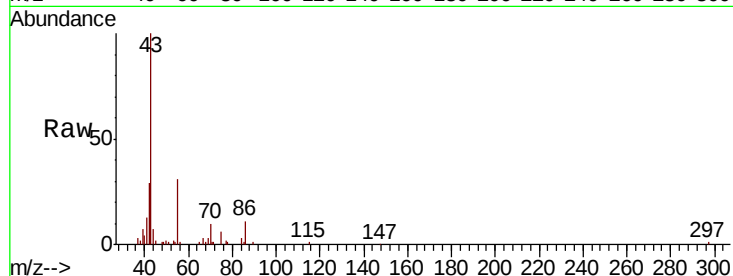
86 61.0 51.9 77.9





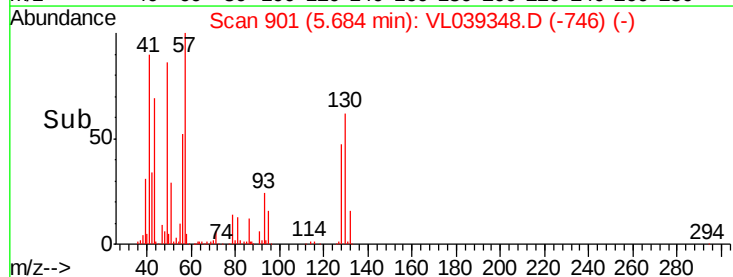
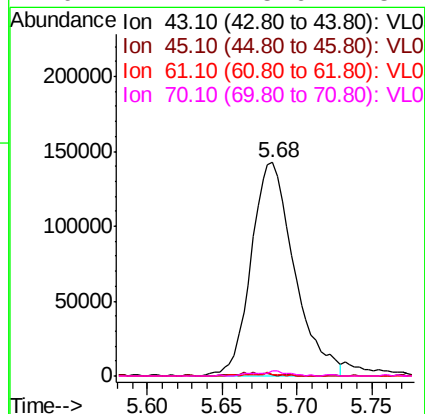
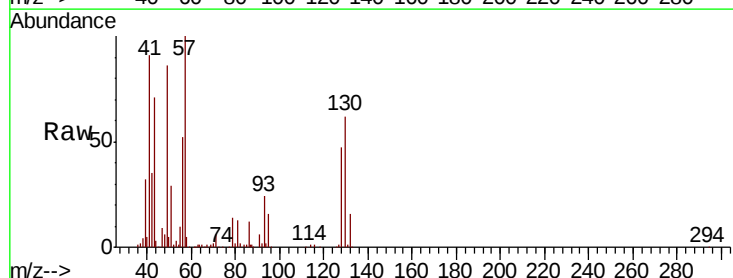
#23
 Vinyl Acetate
 Concen: 0.706 ppbv
 RT: 5.05
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jun 2022 19:43

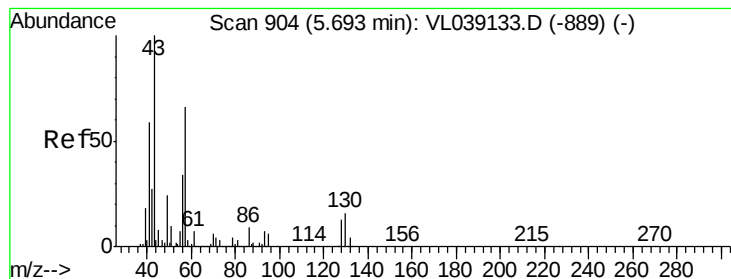
Tot Ion:	43	Resp:	65297
Ion	Ratio	Lower	Upper
43	100		
86	11.4	6.0	9.0#
42	28.7	8.2	12.4#
44	2.4	4.3	6.5#



#25
 Ethyl Acetate
 Concen: 1.138 ppbv
 RT: 5.68 min Scan# 901
 Delta R.T. -0.00 min
 Lab File: VL039348.D
 Acq: 24 Jun 2022 19:43

Tgt Ion:	43	Resp:	286535
Ion	Ratio	Lower	Upper
43	100		
45	1.5	8.2	12.2#
61	0.9	8.4	12.6#
70	2.1	5.6	8.4#





#26

Hexane

Concen: 3.619 ppbv

RT: 5.68 Instrument: MSVOA_1

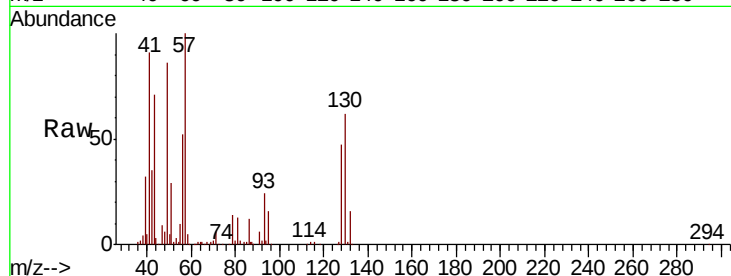
Delta R.T.

Lab File: ClientSampleId:

Acq: 24 Jun 2022 19:43

Tot Ion: 57 Resp: 400567

Ion	Ratio	Lower	Upper
57	100		
41	94.4	72.4	108.6
43	74.4	187.0	280.6#
56	54.5	41.8	62.6



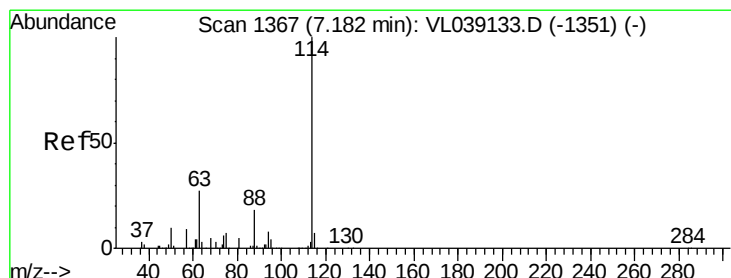
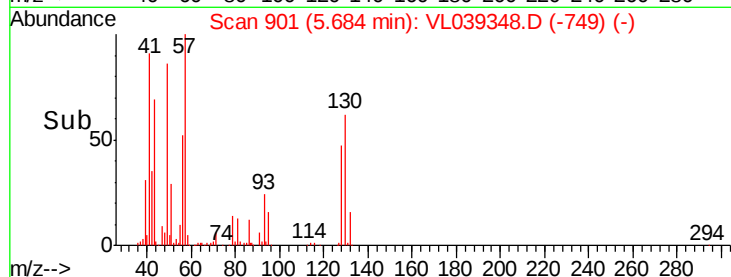
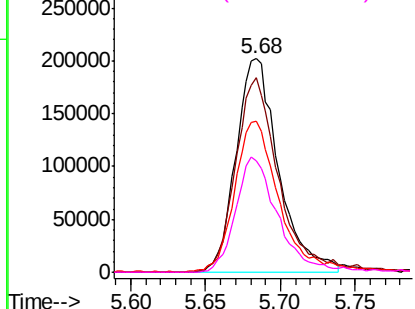
Abundance

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.17 min Scan# 1363

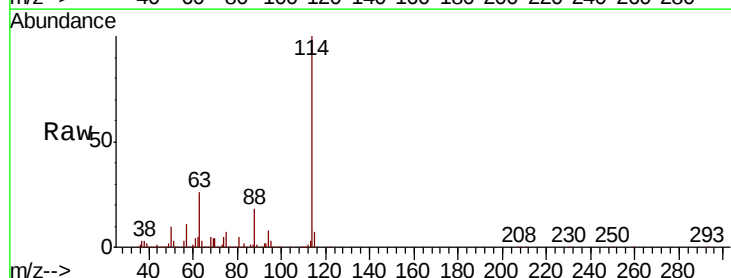
Delta R.T. -0.01 min

Lab File: VL039348.D

Acq: 24 Jun 2022 19:43

Tgt Ion: 114 Resp: 2974573

Ion	Ratio	Lower	Upper
114	100		
63	25.4	21.7	32.5
88	18.1	14.8	22.2

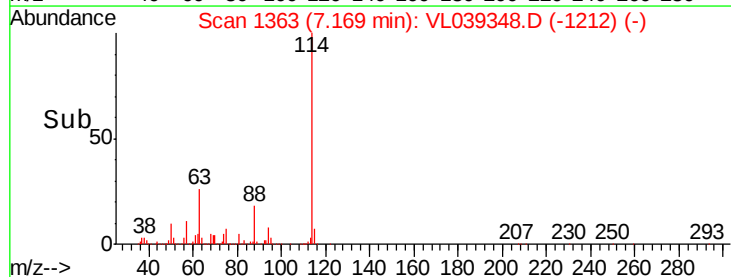
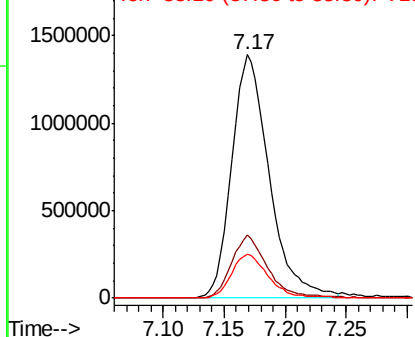


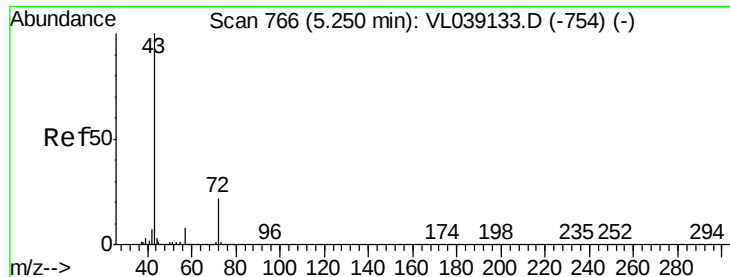
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

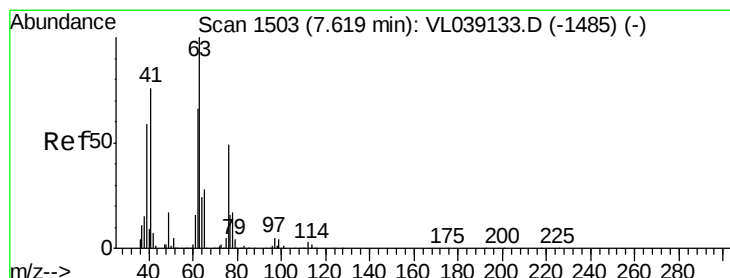
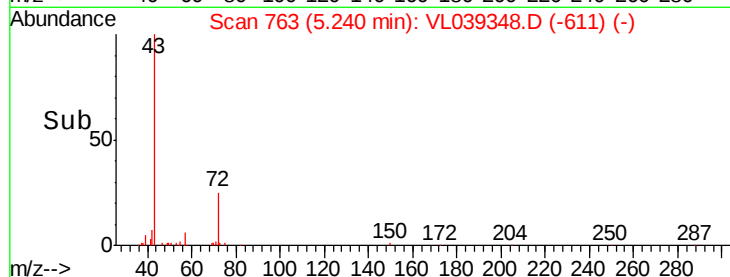
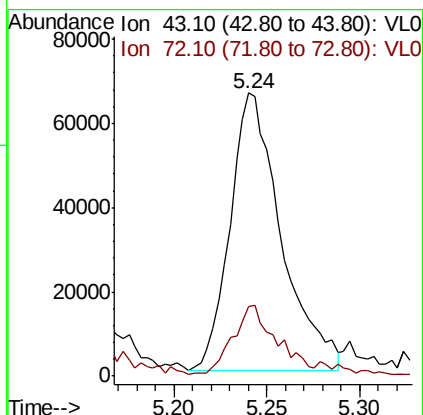
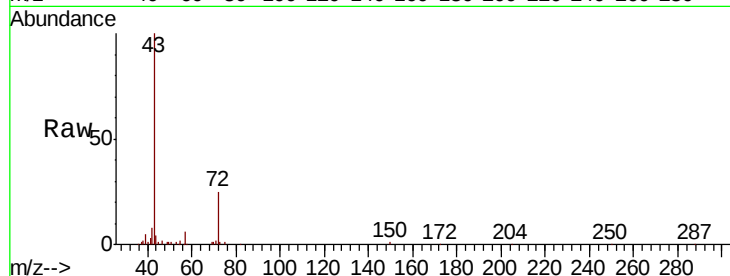
Ion 88.10 (87.80 to 88.80): VL0





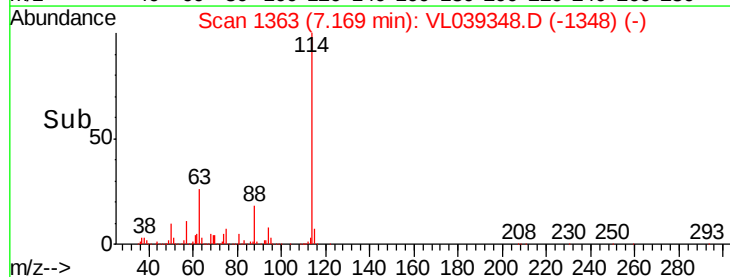
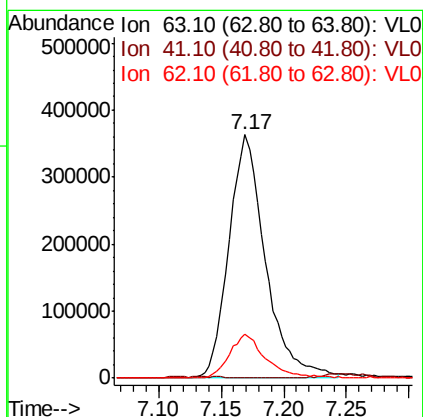
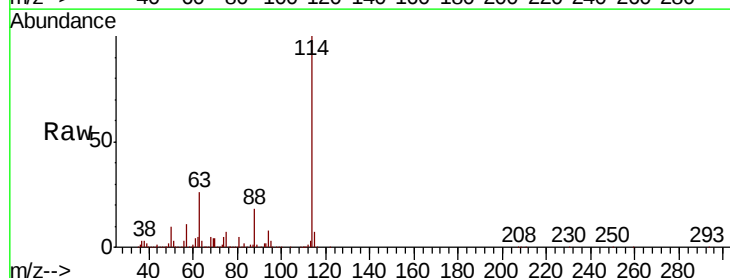
#34
 2-Butanone
 Concen: 0.781 ppbv
 RT: 5.24
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jun 2022 19:43

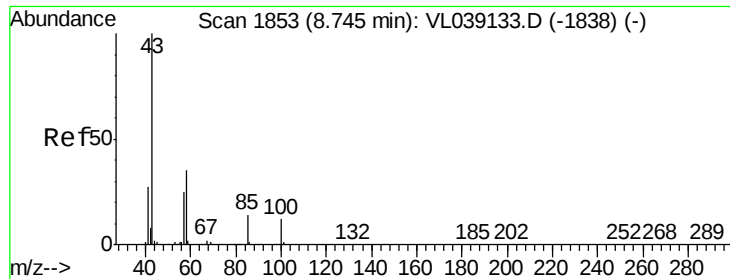
Tot Ion: 43 Resp: 126253
 Ion Ratio Lower Upper
 43 100
 72 26.8 18.2 27.2



#39
 1,2-Dichloropropane
 Concen: 7.640 ppbv
 RT: 7.17 min Scan# 1363
 Delta R.T. -0.45 min
 Lab File: VL039348.D
 Acq: 24 Jun 2022 19:43

Tgt Ion: 63 Resp: 733860
 Ion Ratio Lower Upper
 63 100
 41 0.0 60.8 91.2#
 62 18.1 52.9 79.3#





#50

4-Methyl-2-pentanone

Concen: 0.404 ppbv

RT: 8.74 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

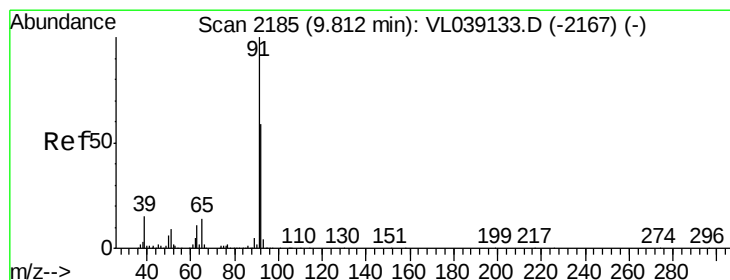
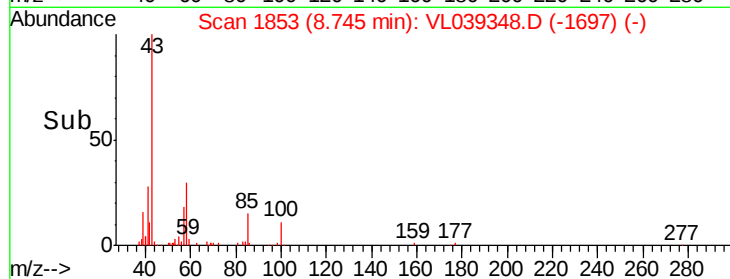
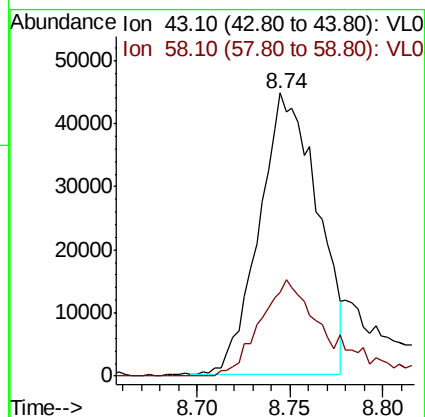
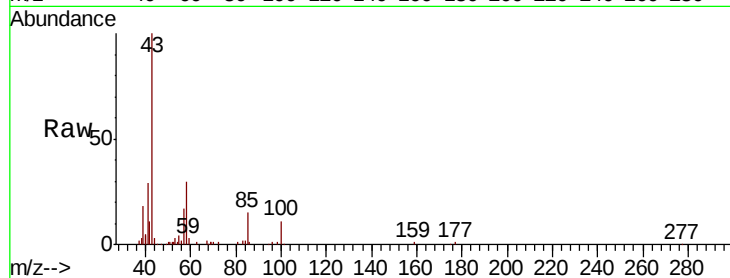
Acq: 24 Jun 2022 19:43

Tot Ion: 43 Resp: 97788

Ion Ratio Lower Upper

43 100

58 40.7 28.7 43.1



#53

Toluene

Concen: 0.902 ppbv

RT: 9.80 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL039348.D

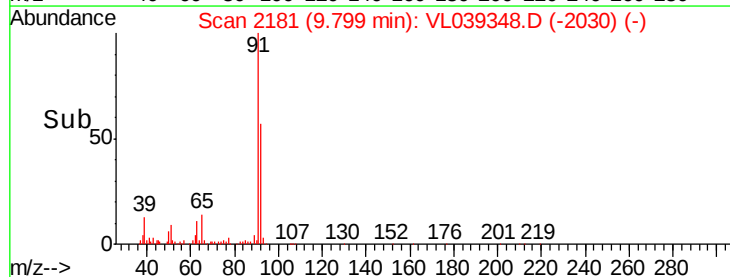
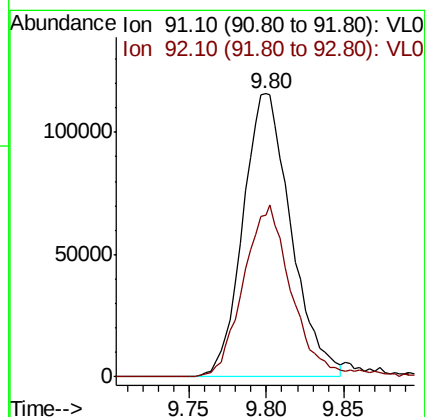
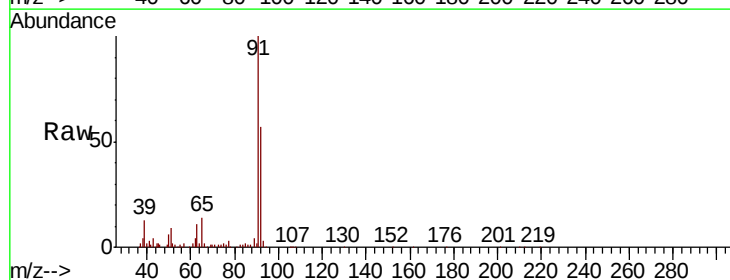
Acq: 24 Jun 2022 19:43

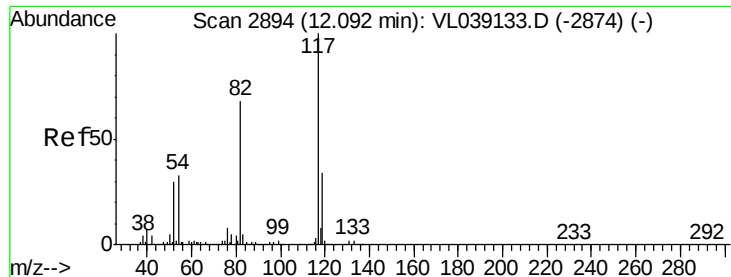
Tgt Ion: 91 Resp: 250698

Ion Ratio Lower Upper

91 100

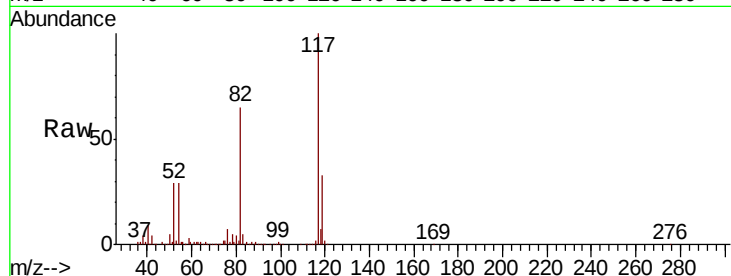
92 61.8 48.1 72.1



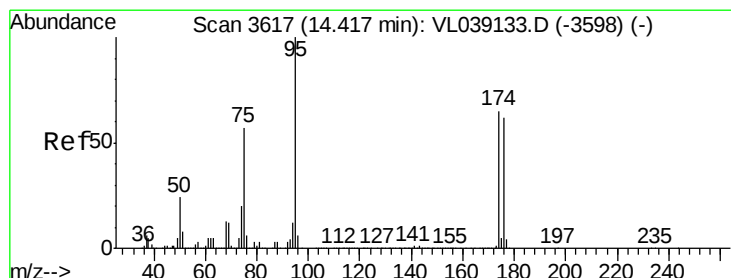
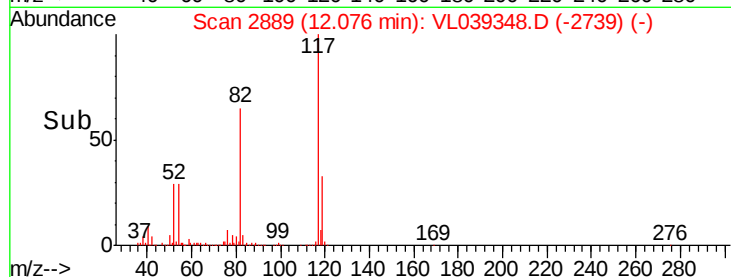
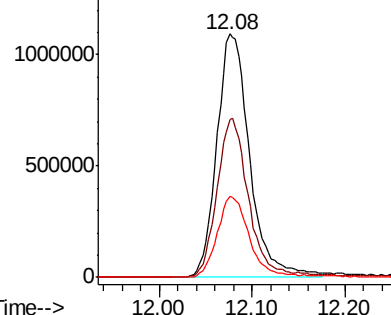


#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 24 Jun 2022 19:43

Tot Ion: 117 Resp: 2688805
Ion Ratio Lower Upper
117 100
82 65.2 55.1 82.7
119 33.5 24.7 37.1

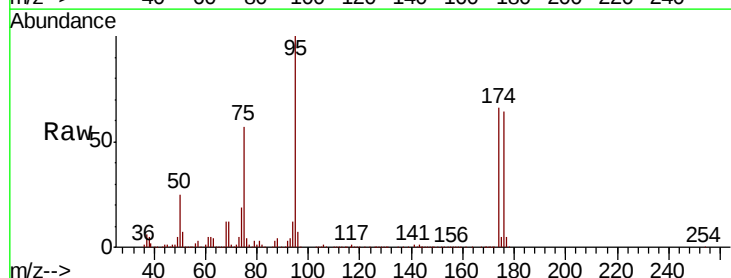


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V

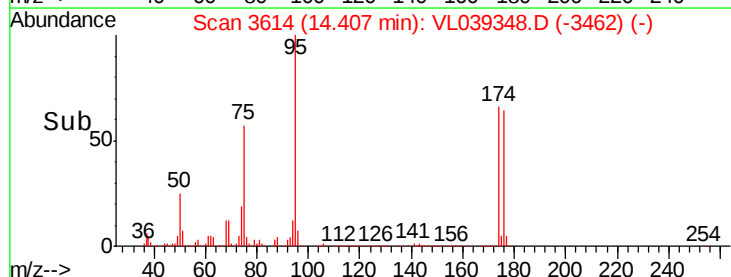
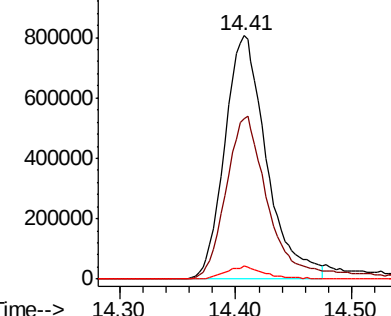


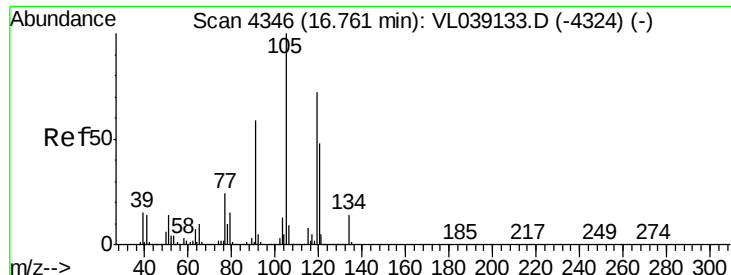
#68
1-Bromo-4-Fluorobenzene
Concen: 9.096 ppbv
RT: 14.41 min Scan# 3614
Delta R.T. -0.01 min
Lab File: VL039348.D
Acq: 24 Jun 2022 19:43

Tgt Ion: 95 Resp: 2021975
Ion Ratio Lower Upper
95 100
174 70.9 53.8 80.8
175 5.2 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: 0.100 ppbv
 RT: 16.75
 Delta R.T: MSVOA_L
 Lab File: ClientSampleId :
 Acq: 24 Jun 2022 19:43

Tot Ion:	105	Resp:	36047
Ion Ratio	Lower	Upper	
105	100		
120	47.2	38.1	57.1
91	13.9	47.4	71.0#
77	11.2	19.5	29.3#

