

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062722\
 Data File : VL039368.D
 Acq On : 27 Jun 2022 21:04
 Operator : SY/AP
 Sample : N3453-04DL 20X
 Misc : 400mL/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG-4DL

Quant Time: Jun 28 02:39:00 2022
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL053122AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed 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	1191020	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.17	114	3444500	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.08	117	3000594	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.41	95	2320922	9.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.60%

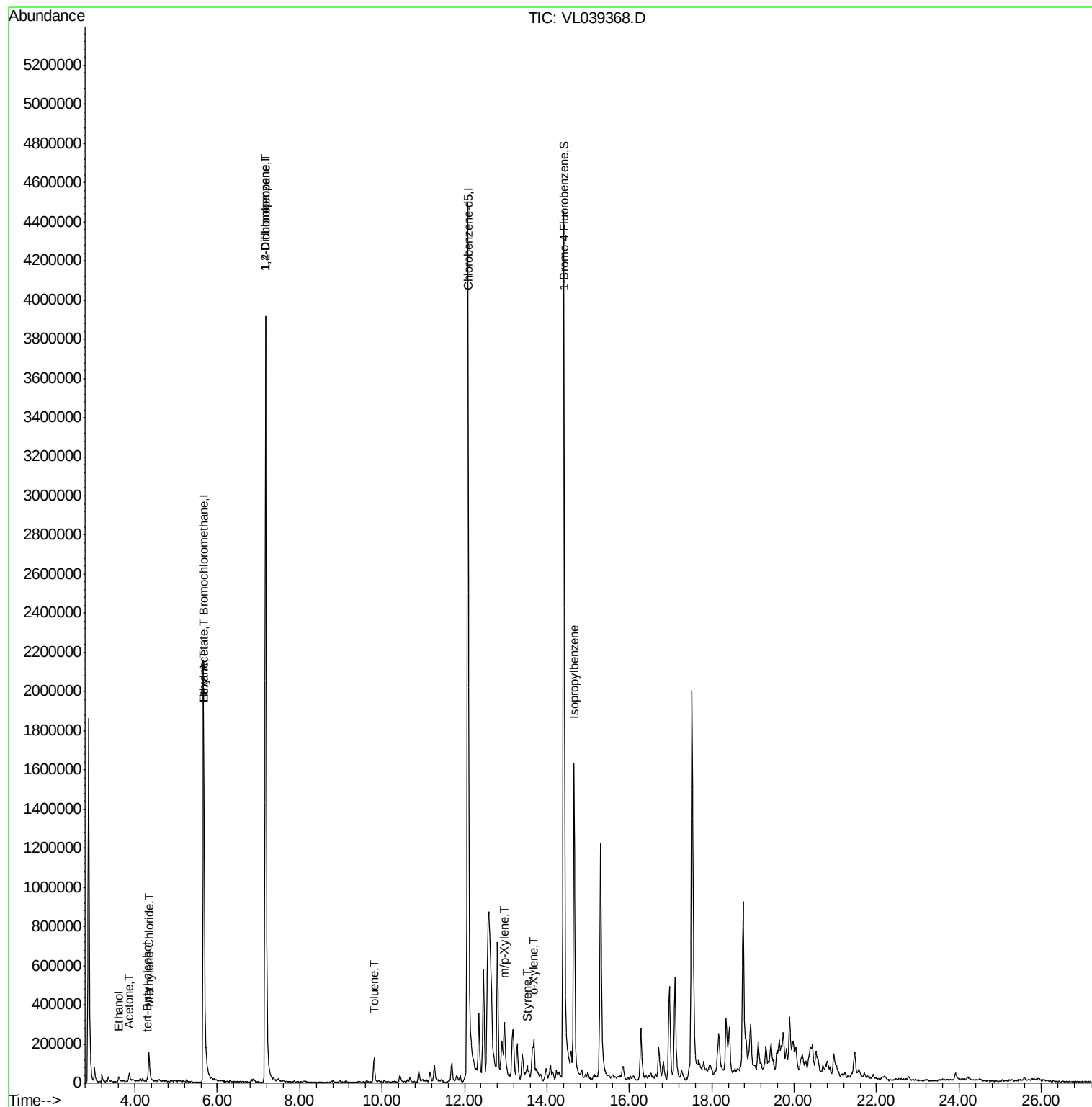
Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
13) Ethanol	3.60	45	15816	4.389	ppbv #	100
15) Acetone	3.85	43	14398	0.116	ppbv #	47
17) tert-Butyl alcohol	4.30	59	7083	0.074	ppbv #	1
20) Methylene Chloride	4.35	84	26119	0.500	ppbv #	83
25) Ethyl Acetate	5.68	43	26369	0.094	ppbv #	77
26) Hexane	5.68	57	34968	0.285	ppbv #	38
39) 1,2-Dichloropropane	7.17	63	833212	7.491	ppbv #	24
53) Toluene	9.80	91	57191	0.178	ppbv #	21
59) m/p-Xylene	12.98	91	13440	0.037	ppbv #	33
60) o-Xylene	13.68	91	19843	0.058	ppbv #	13
61) Styrene	13.52	104	5690	0.031	ppbv #	1
62) Isopropylbenzene	14.66	105	1521083	2.992	ppbv	100

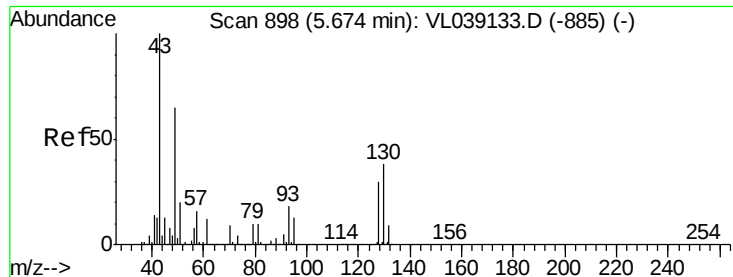
(#) = qualifier out of range (m) = manual integration (+) = signals summed

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#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Jun 2022 21:04 SG-4DL

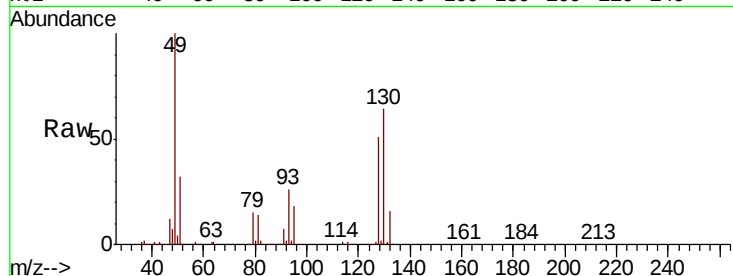
Tot Ion: 49 Resp: 1191020

Ion Ratio Lower Upper

49 100

128 54.1 24.7 74.1

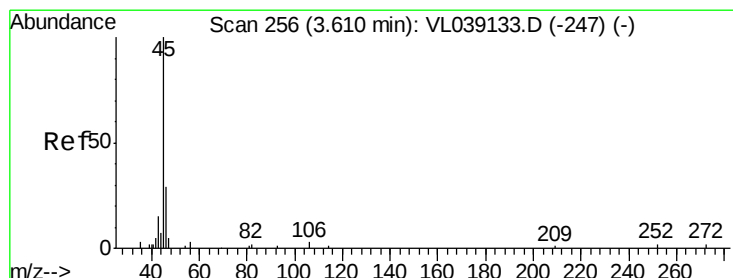
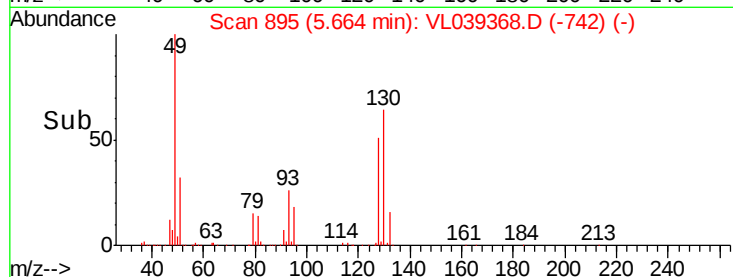
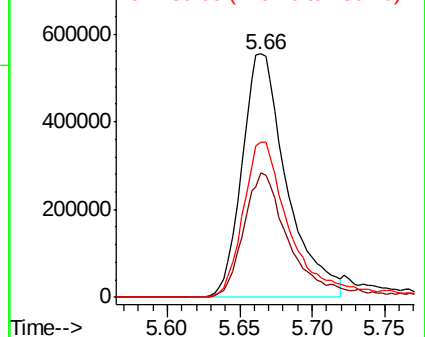
130 70.1 31.4 94.0



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



#13

Ethanol

Concen: 4.389 ppbv

RT: 3.60 min Scan# 254

Delta R.T. -0.01 min

Lab File: VL039368.D

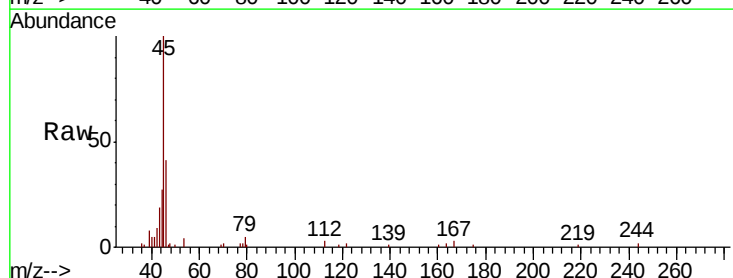
Acq: 27 Jun 2022 21:04

Tgt Ion: 45 Resp: 15816

Ion Ratio Lower Upper

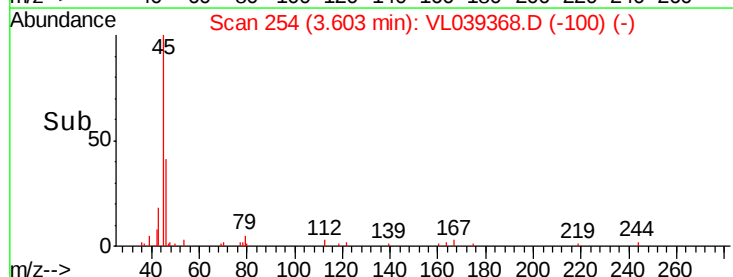
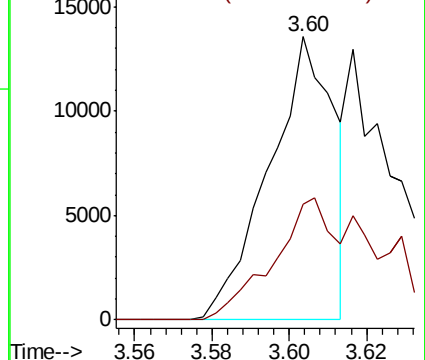
45 100

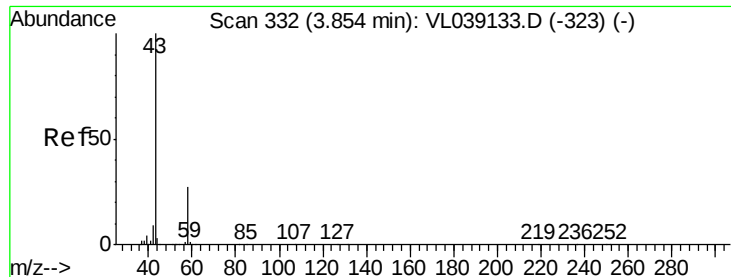
46 90.7 0.0 0.0#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 0.116 ppbv

RT: 3.85 Instrument:

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

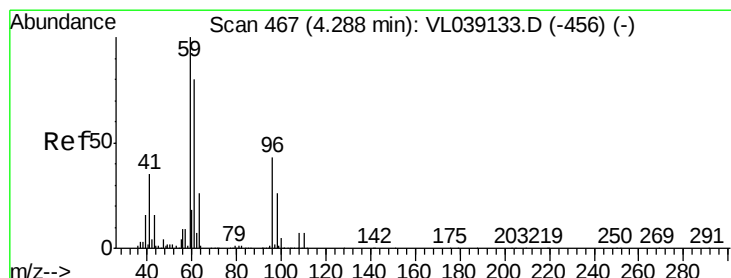
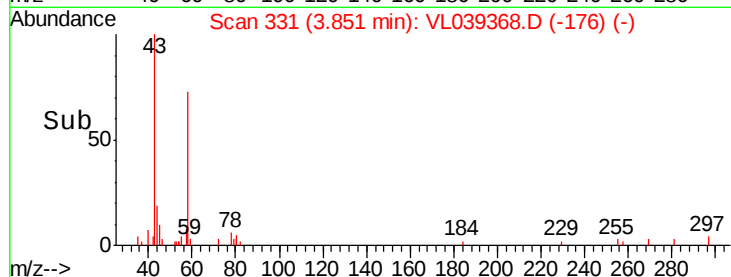
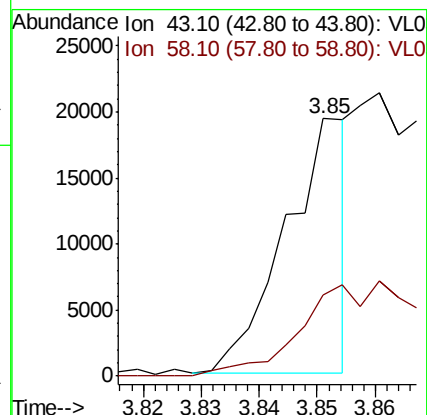
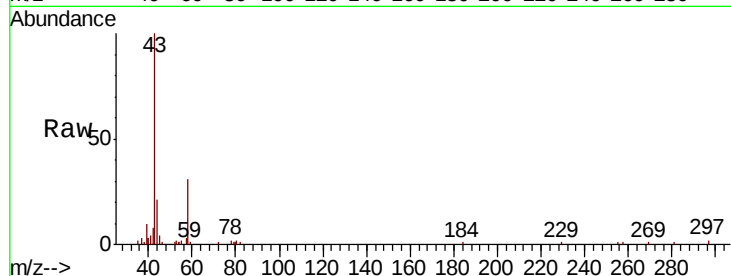
Acq: 27 Jun 2022 21:04 SG-4DL

Tot Ion: 43 Resp: 14398

Ion Ratio Lower Upper

43 100

58 0.0 22.5 33.7#



#17

tert-Butyl alcohol

Concen: 0.074 ppbv

RT: 4.30 min Scan# 471

Delta R.T. 0.01 min

Lab File: VL039368.D

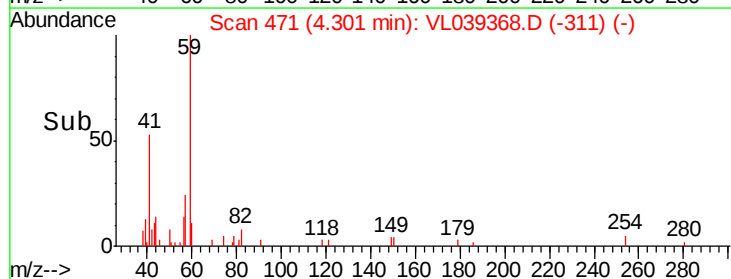
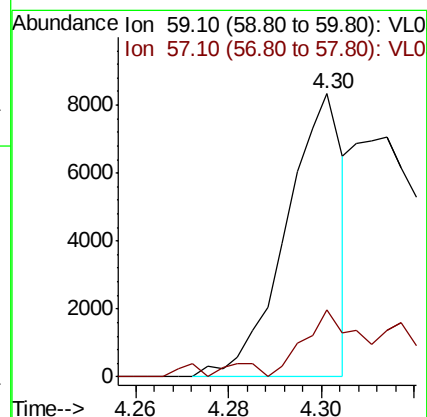
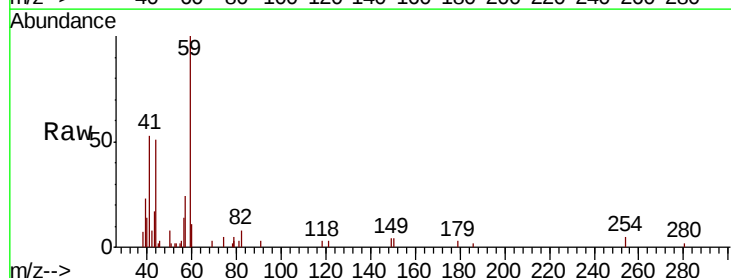
Acq: 27 Jun 2022 21:04

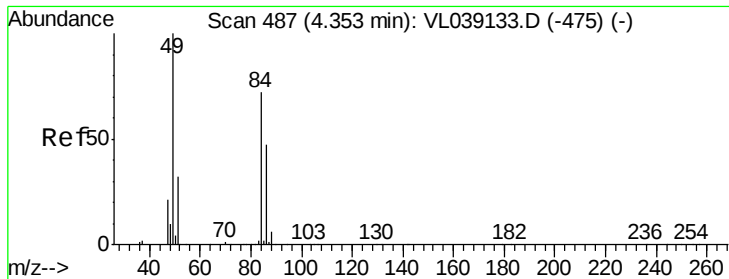
Tgt Ion: 59 Resp: 7083

Ion Ratio Lower Upper

59 100

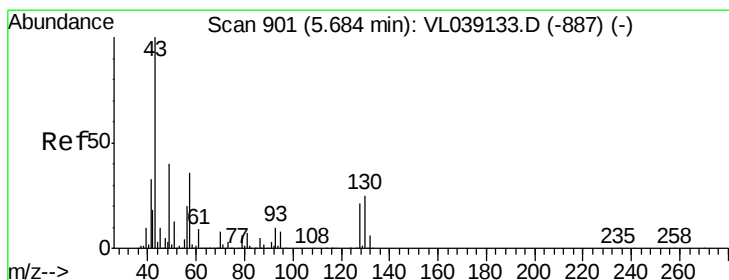
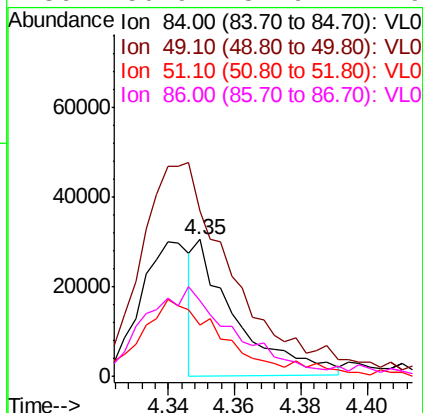
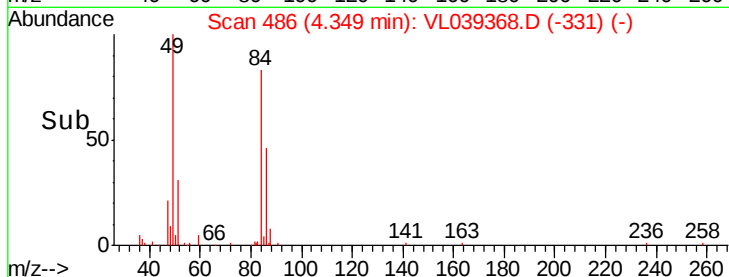
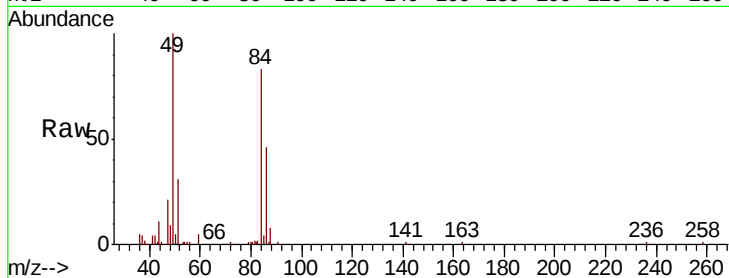
57 51.6 9.1 13.7#





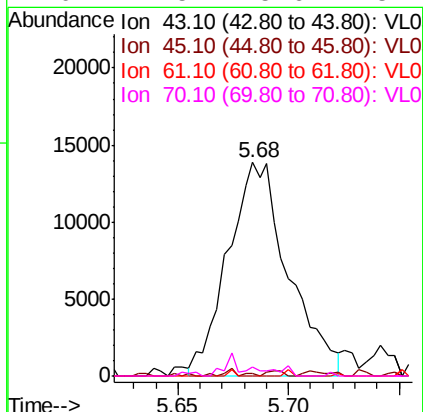
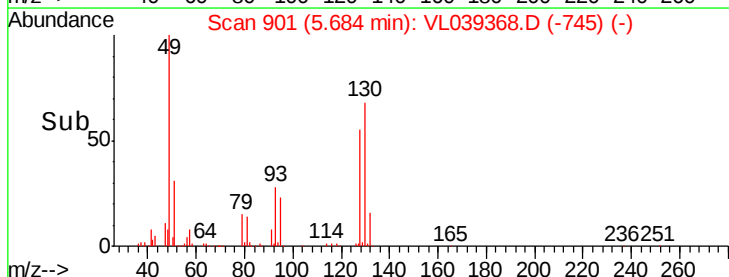
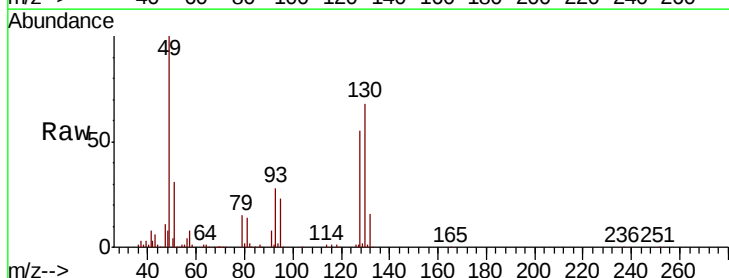
#20
Methylene Chloride
Concen: 0.500 ppbv
RT: 4.35
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Jun 2022 21:04

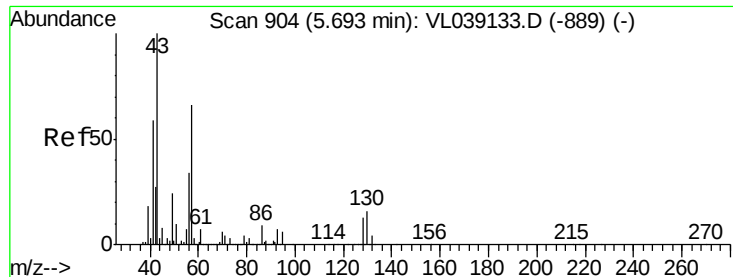
Tot Ion: 84 Resp: 26119
Ion Ratio Lower Upper
84 100
49 116.3 111.1 166.7
51 35.4 35.3 52.9
86 50.9 51.9 77.9#



#25
Ethyl Acetate
Concen: 0.094 ppbv
RT: 5.68 min Scan# 901
Delta R.T. 0.00 min
Lab File: VL039368.D
Acq: 27 Jun 2022 21:04

Tgt Ion: 43 Resp: 26369
Ion Ratio Lower Upper
43 100
45 0.0 8.2 12.2#
61 0.0 8.4 12.6#
70 4.5 5.6 8.4#





#26

Hexane

Concen: 0.285 ppbv

RT: 5.68 Instrument:

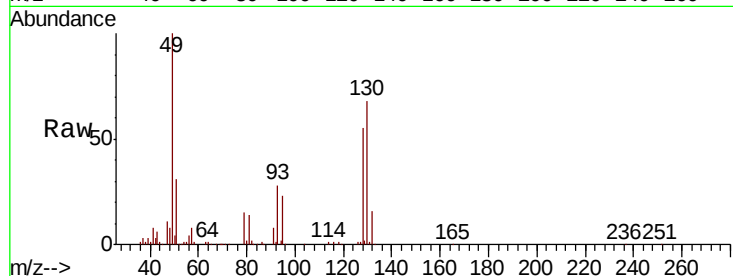
Delta R.T. MSVOA_L

Lab File: ClientSampleId:

Acq: 27 Jun 2022 21:04 SG-4DL

Tot Ion: 57 Resp: 34968

Ion	Ratio	Lower	Upper
57	100		
41	106.4	72.4	108.6
43	83.5	187.0	280.6#
56	61.0	41.8	62.6

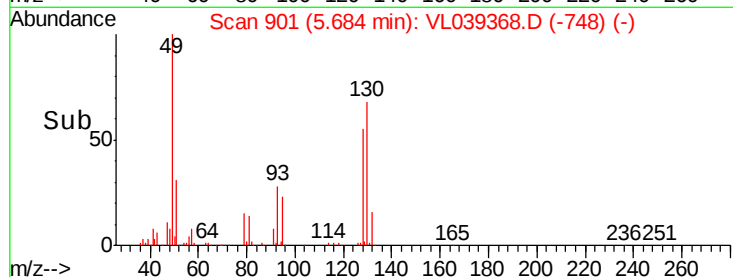
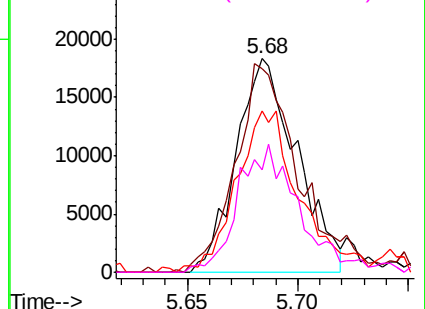


Abundance Ion 57.10 (56.80 to 57.80): VL0

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# 1364

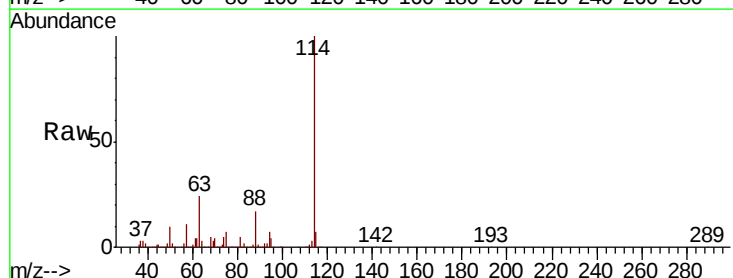
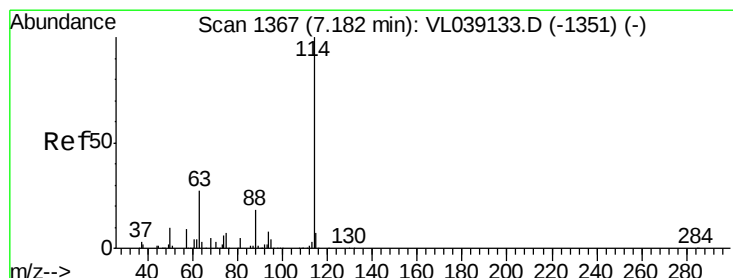
Delta R.T. -0.01 min

Lab File: VL039368.D

Acq: 27 Jun 2022 21:04

Tgt Ion: 114 Resp: 3444500

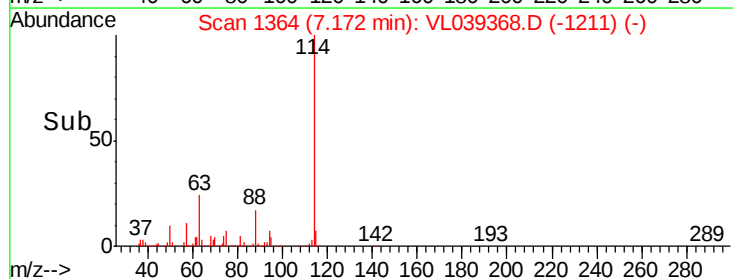
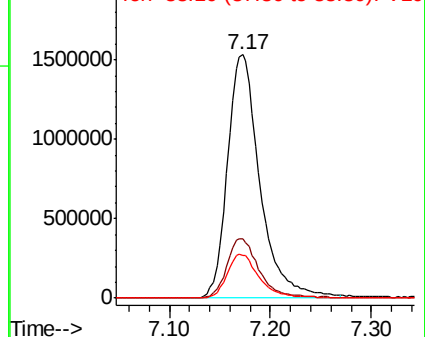
Ion	Ratio	Lower	Upper
114	100		
63	24.8	21.7	32.5
88	18.1	14.8	22.2

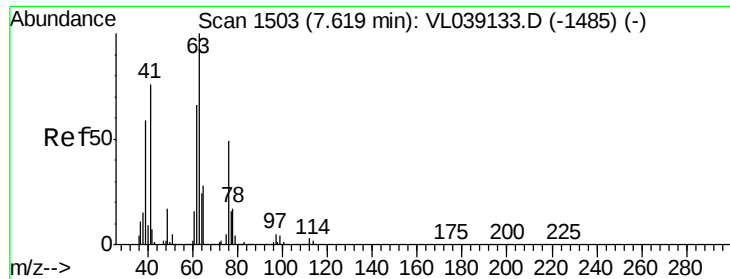


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

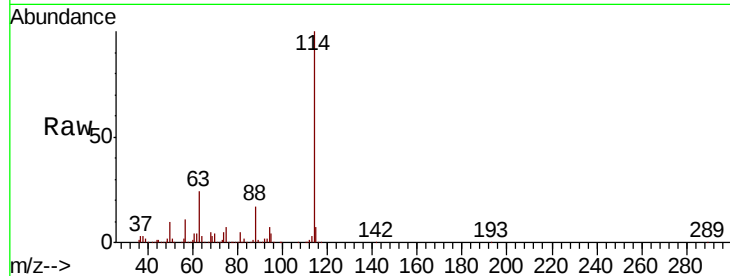
Ion 88.10 (87.80 to 88.80): VL0



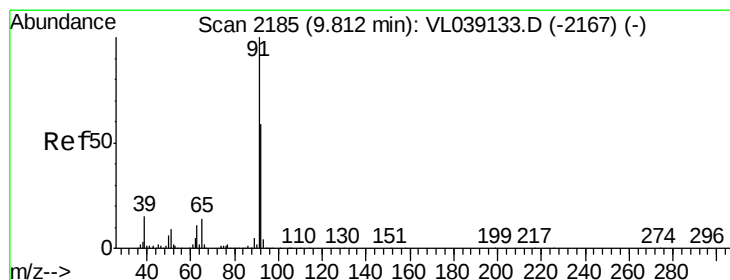
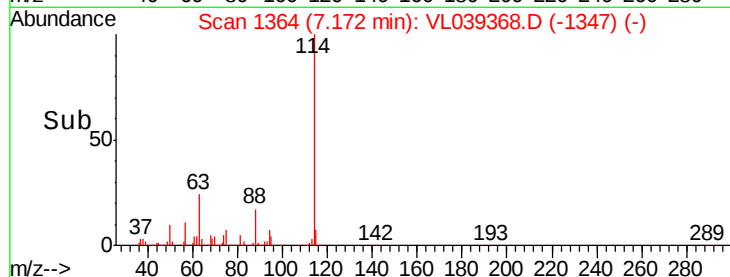
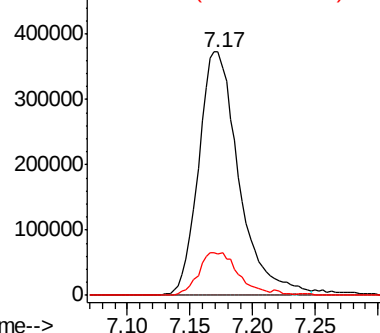


#39
 1,2-Dichloropropane
 Concen: 7.491 ppbv
 RT: 7.17
 Delta R.T. MSVOA_L
 Lab File: ClientSampleId :
 Acq: 27 Jun 2022 21:04

Tot Ion	63	Resp	833212
Ion	Ratio	Lower	Upper
63	100		
41	0.0	60.8	91.2#
62	16.6	52.9	79.3#

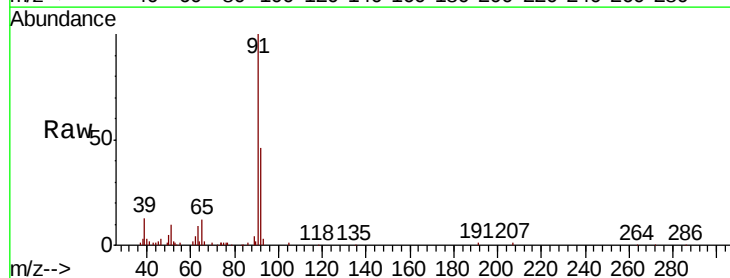


Abundance Ion 63.10 (62.80 to 63.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 62.10 (61.80 to 62.80): VL0

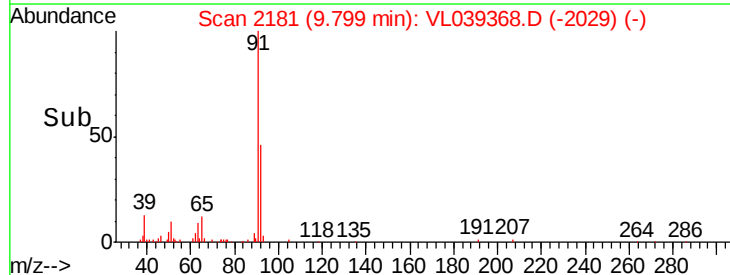
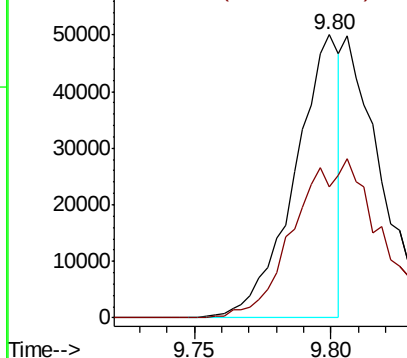


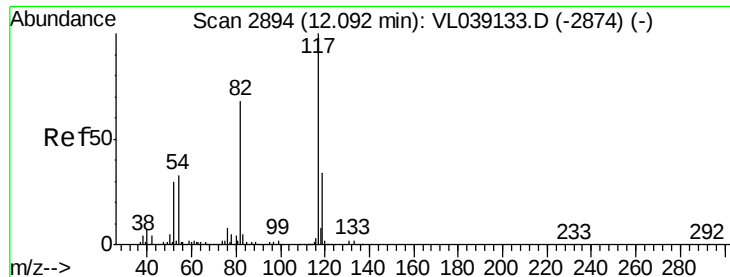
#53
 Toluene
 Concen: 0.178 ppbv
 RT: 9.80 min Scan# 2181
 Delta R.T. -0.01 min
 Lab File: VL039368.D
 Acq: 27 Jun 2022 21:04

Tgt Ion	91	Resp	57191
Ion	Ratio	Lower	Upper
91	100		
92	0.0	48.1	72.1#



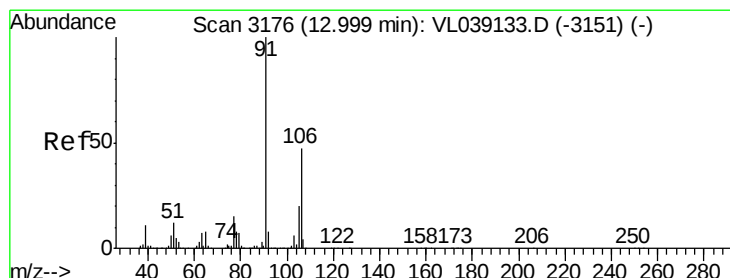
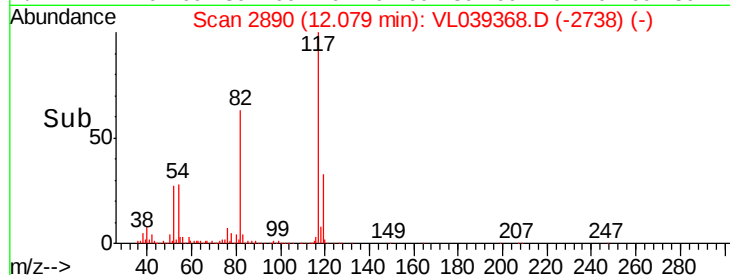
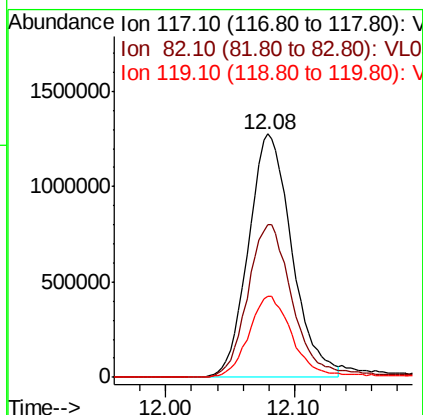
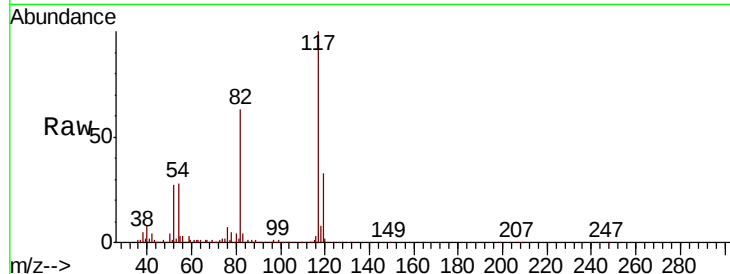
Abundance Ion 91.10 (90.80 to 91.80): VL0
 Ion 92.10 (91.80 to 92.80): VL0





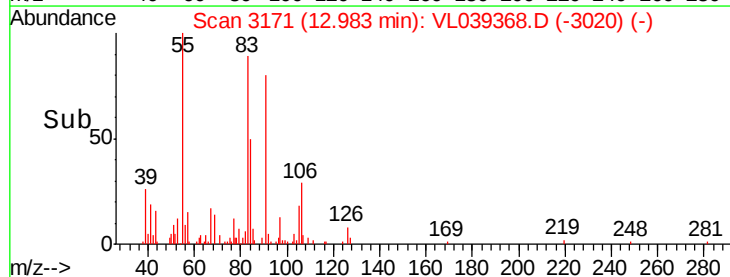
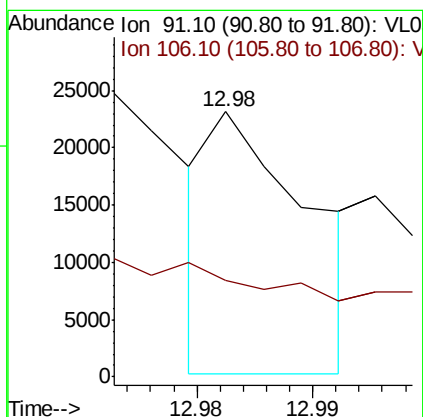
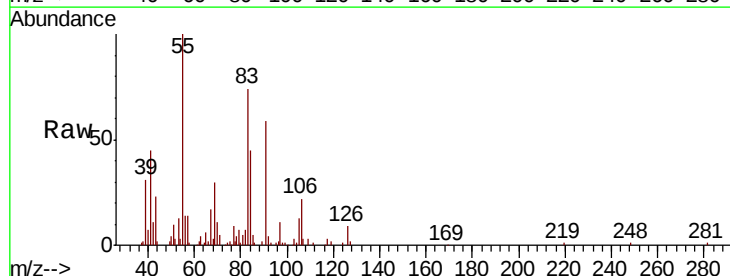
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.08 min
Instrument: MSVOA_1
Delta R.T.:
Lab File: ClientSampleId :
Acq: 27 Jun 2022 21:04

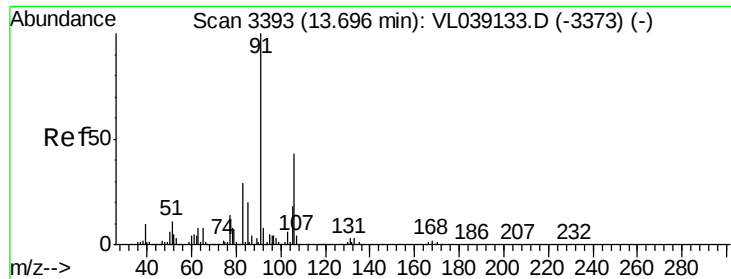
Tot Ion: 117 Resp: 3000594
Ion Ratio Lower Upper
117 100
82 67.2 55.1 82.7
119 34.6 24.7 37.1



#59
m/p-Xylene
Concen: 0.037 ppbv
RT: 12.98 min Scan# 3171
Delta R.T.: -0.02 min
Lab File: VL039368.D
Acq: 27 Jun 2022 21:04

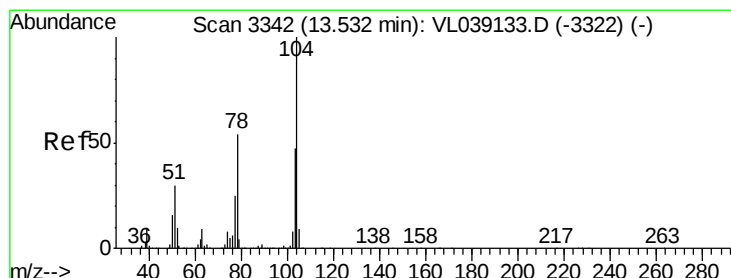
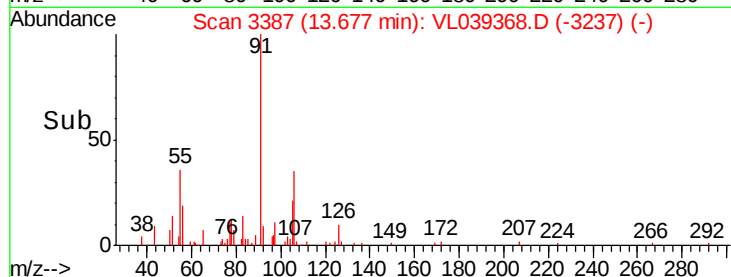
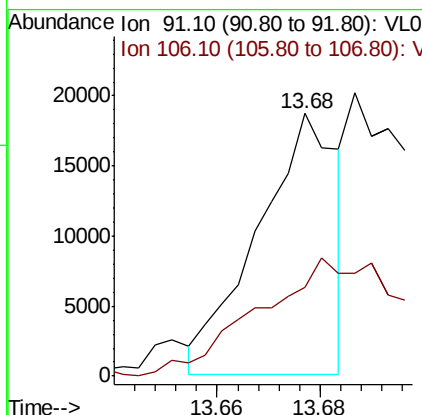
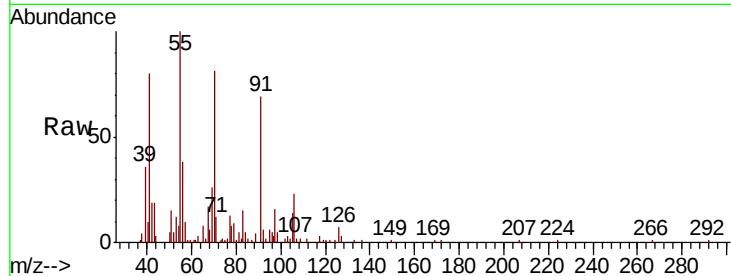
Tgt Ion: 91 Resp: 13440
Ion Ratio Lower Upper
91 100
106 0.0 34.3 51.5#





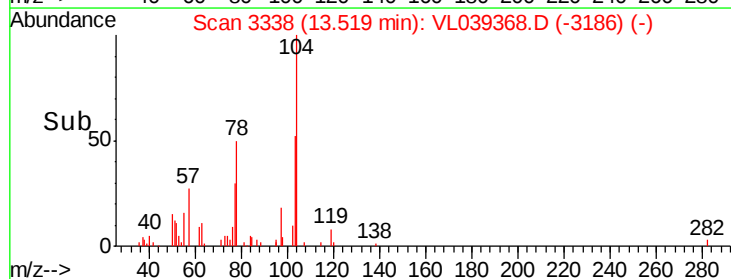
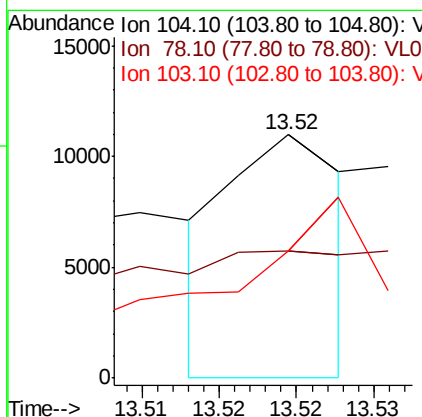
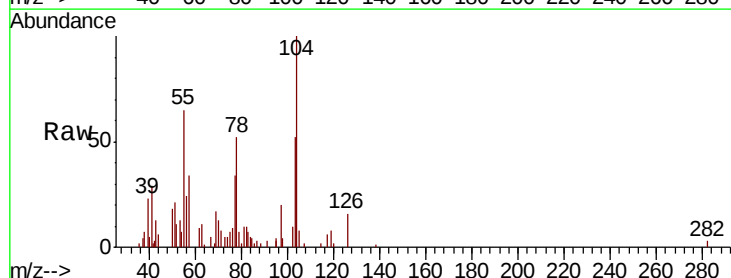
#60
o-Xylene
Concen: 0.058 ppbv
RT: 13.68
Delta R.T. MSVOA_L
Lab File: ClientSampleId:
Acq: 27 Jun 2022 21:04

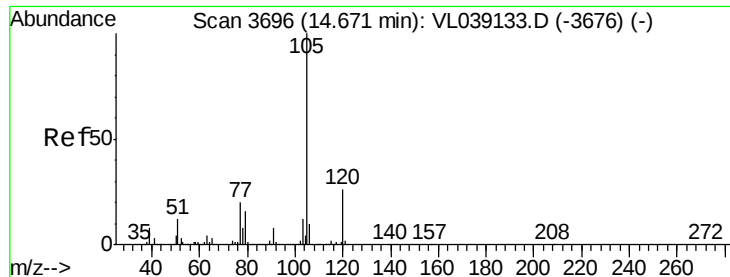
Tot Ion: 91 Resp: 19843
Ion Ratio Lower Upper
91 100
106 101.4 22.3 66.9#



#61
Styrene
Concen: 0.031 ppbv
RT: 13.52 min Scan# 3338
Delta R.T. -0.01 min
Lab File: VL039368.D
Acq: 27 Jun 2022 21:04

Tgt Ion: 104 Resp: 5690
Ion Ratio Lower Upper
104 100
78 227.2 45.7 68.5#
103 220.3 39.6 59.4#





#62

Isopropylbenzene

Concen: 2.992 ppbv

RT: 14.66

Delta R.T. MSVOA_L

Lab File: ClientSampleId:

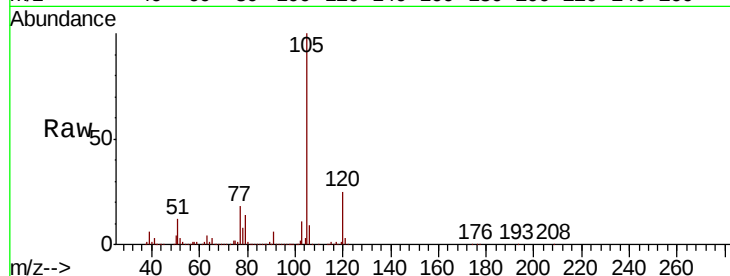
Acq: 27 Jun 2022 21:04

Tot Ion: 105 Resp: 1521083

Ion Ratio Lower Upper

105 100

120 25.3 20.3 30.5



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.66

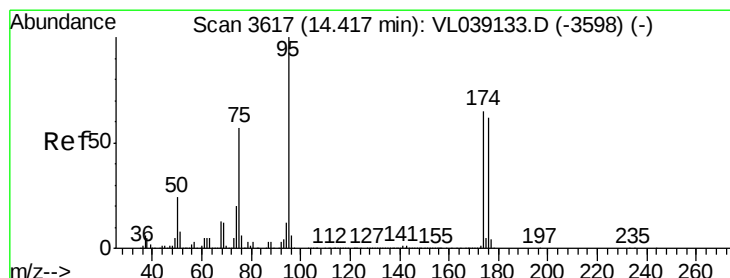
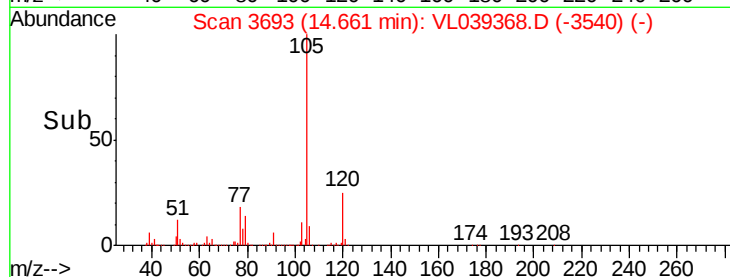
600000

400000

200000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 9.356 ppbv

RT: 14.41 min Scan# 3615

Delta R.T. -0.01 min

Lab File: VL039368.D

Acq: 27 Jun 2022 21:04

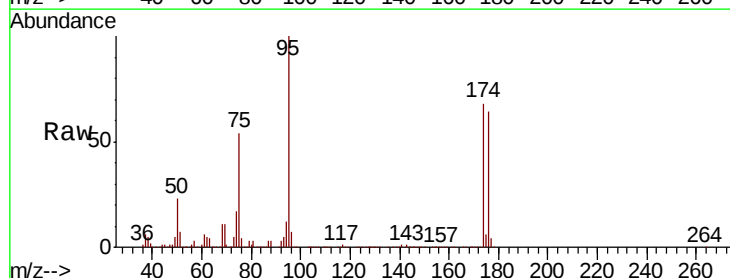
Tgt Ion: 95 Resp: 2320922

Ion Ratio Lower Upper

95 100

174 72.8 53.8 80.8

175 5.4 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

14.41

1200000

1000000

800000

600000

400000

200000

0

Time-->

