

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021021\
 Data File : VL036334.D
 Acq On : 11 Feb 2021 1:54
 Operator : SY/AP
 Sample : M1343-05
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-5B

Manual Integrations
 APPROVED

MMDadoda
 2/12/2021 1:42:46 PM

Quant Time: Feb 11 21:06:32 2021
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb 10 2021
 QLast Update : Wed Feb 10 16:04:02 2021
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1657103	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.16	114	3543187	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.07	117	3161738	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.40	95	2613398	10.05	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	100.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	69464	0.281	ppbv	91
3) Chlorodifluoromethane	2.97	51	1522045	7.392	ppbv	92
4) Chloromethane	3.12	50	57964	0.583	ppbv	89
9) Propene	3.00	41	151346	1.972	ppbv	85
11) Trichlorofluoromethane	3.93	101	51059	0.211	ppbv #	79
13) Ethanol	3.62	45	18317945	1270.417	ppbv	95
15) Acetone	3.83	43	1646868	8.130	ppbv	98
19) Isopropyl Alcohol	4.00	45	12499912m	111.384	ppbv	
20) Methylene Chloride	4.33	84	242816	3.716	ppbv	92
26) Hexane	5.67	57	256682	1.598	ppbv	87
27) Carbon Disulfide	4.53	76	22095m	0.150	ppbv	
29) Chloroform	5.73	83	220605m	0.852	ppbv	
34) 2-Butanone	5.23	43	117053	0.497	ppbv	92
35) Carbon Tetrachloride	7.00	117	17388m	0.073	ppbv	
36) Benzene	6.87	78	653729	2.172	ppbv	98
53) Toluene	9.79	91	322722	0.990	ppbv	99
59) m/p-Xylene	12.95	91	65189m	0.171	ppbv	
61) Styrene	13.52	104	30086m	0.134	ppbv	

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

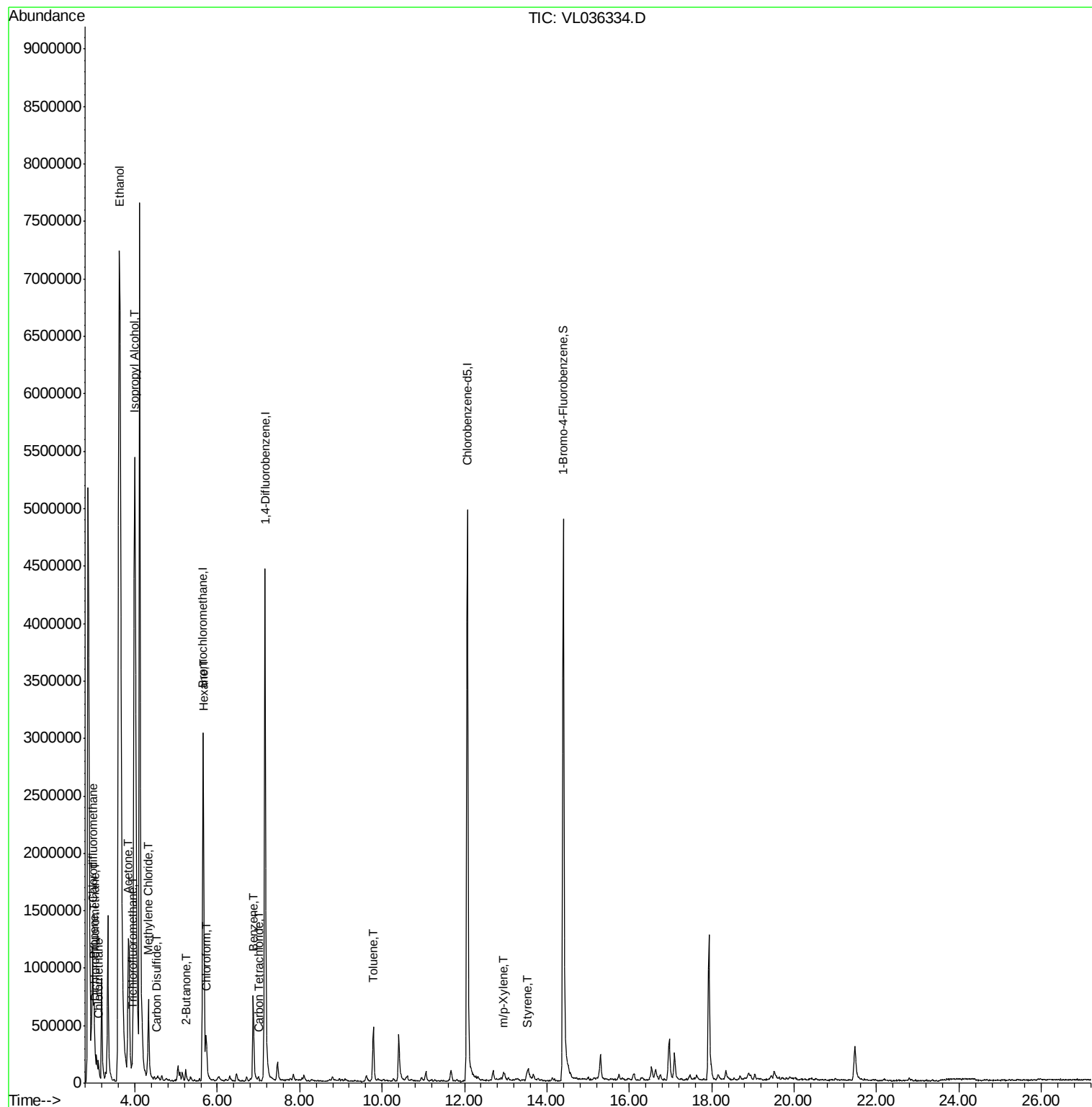
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL021021\
Data File : VL036334.D
Acq On : 11 Feb 2021 1:54
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

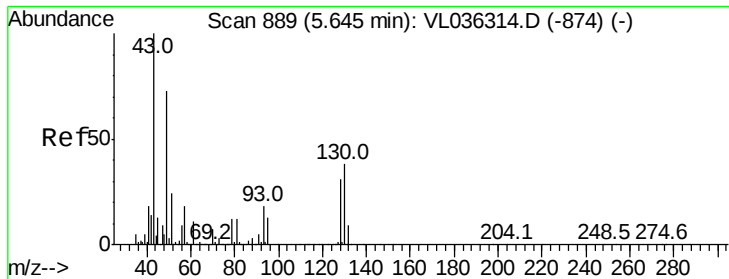
Instrument :
MSVOA_L
ClientSampleId :
SR-5B

Manual Integrations
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2/12/2021 1:42:46 PM

Quant Time: Feb 11 21:06:32 2021
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL021021AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Feb
QLast Update : Wed Feb 10 16:04:02 2021
Response via : Initial Calibration





#1

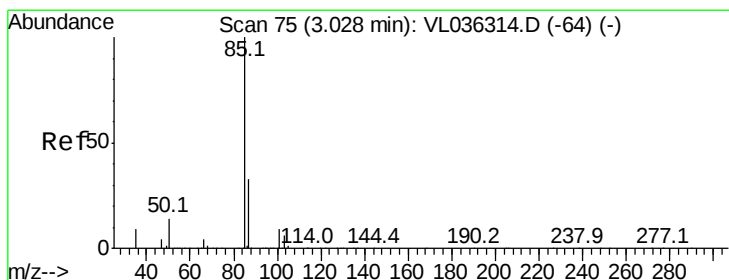
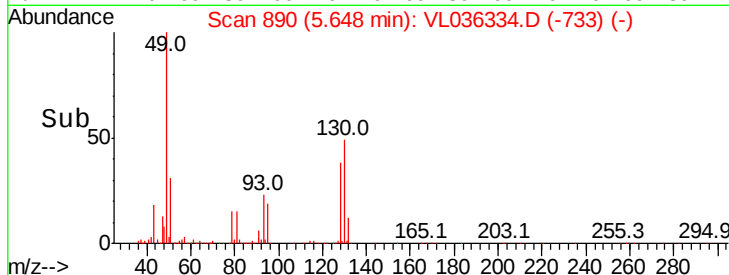
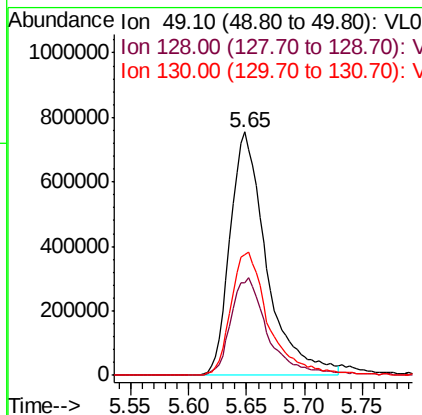
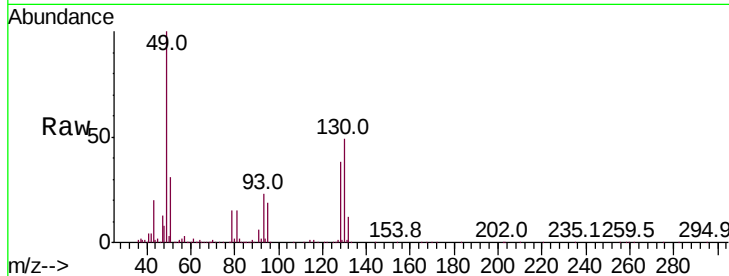
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.65 min Scan# 890
 Delta R.T. 0.00 min
 Lab File: VL036334.D
 Acq: 11 Feb 2021 1:54

Instrument :
 MSVOA_L
 ClientSampleId :
 SR-5B

Tot Ion: 49 Resp: 1657103
 Ion Ratio Lower Upper
 49 100
 128 41.6 20.8 62.5
 130 53.0 26.7 80.1

Manual Integrations
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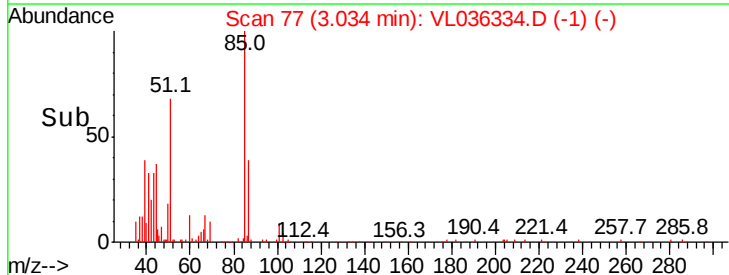
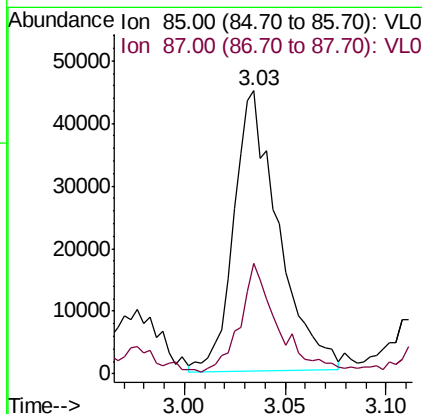
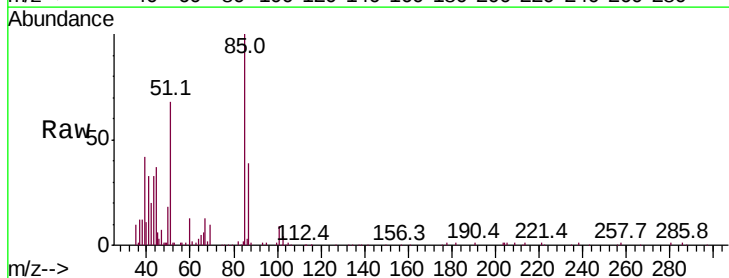
MMDadoda
 2/12/2021 1:42:46 PM

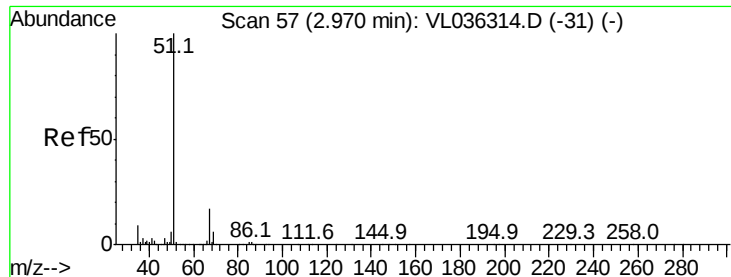


#2

Dichlorodifluoromethane
 Concen: 0.281 ppbv
 RT: 3.03 min Scan# 77
 Delta R.T. 0.01 min
 Lab File: VL036334.D
 Acq: 11 Feb 2021 1:54

Tgt Ion: 85 Resp: 69464
 Ion Ratio Lower Upper
 85 100
 87 38.0 26.5 39.7





#3

Chlorodifluoromethane

Concen: 7.392 ppbv

RT: 2.97 min Scan# 58

Delta R.T. 0.00 min

Lab File: VL036334.D

Acq: 11 Feb 2021 1:54

Instrument :

MSVOA_L

ClientSampleId :

SR-5B

Tot Ion: 51 Resp: 1522045

Ion Ratio Lower Upper

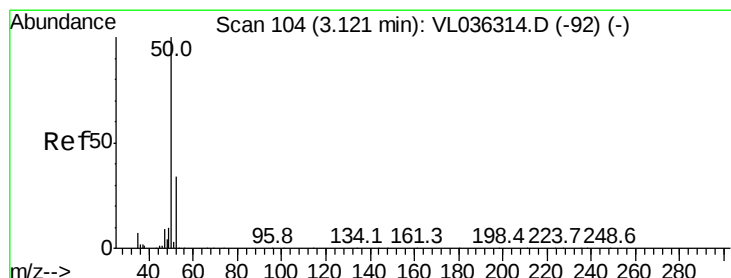
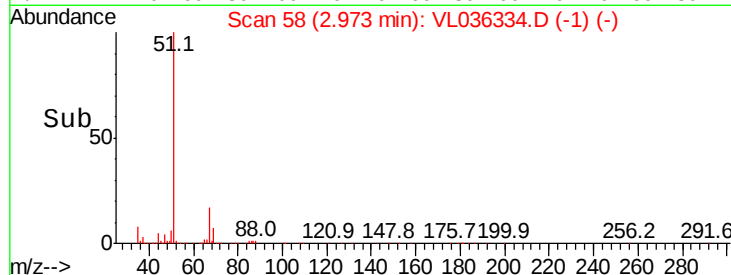
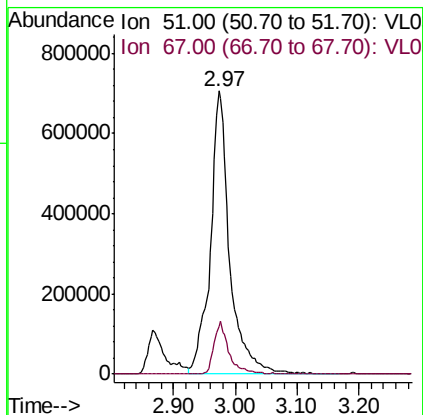
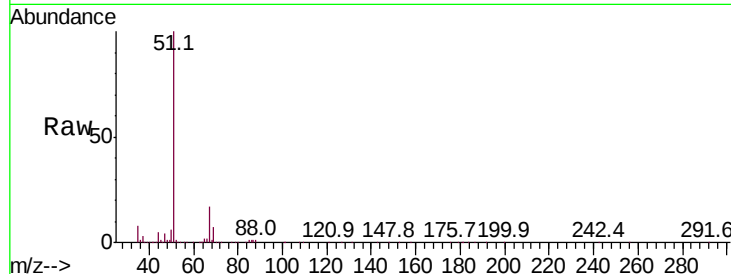
51 100

67 14.7 14.7 22.1

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#4

Chloromethane

Concen: 0.583 ppbv

RT: 3.12 min Scan# 105

Delta R.T. 0.00 min

Lab File: VL036334.D

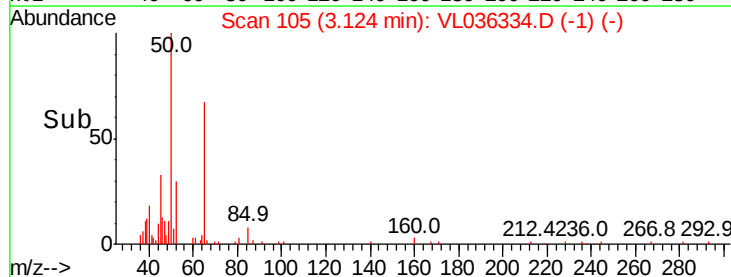
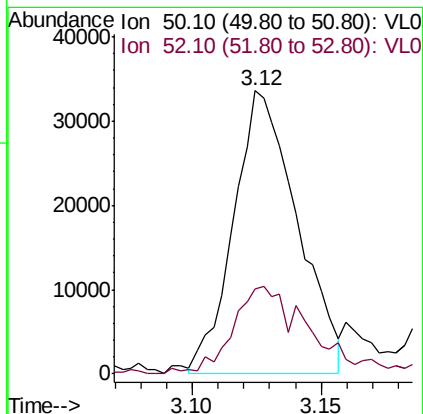
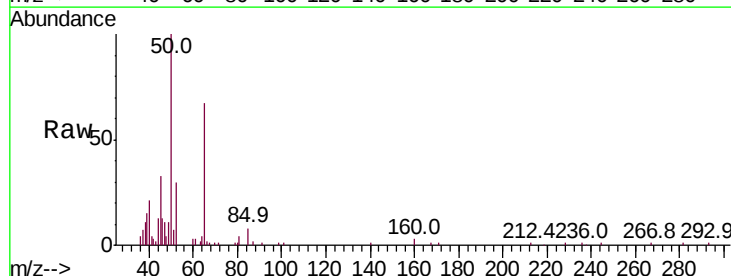
Acq: 11 Feb 2021 1:54

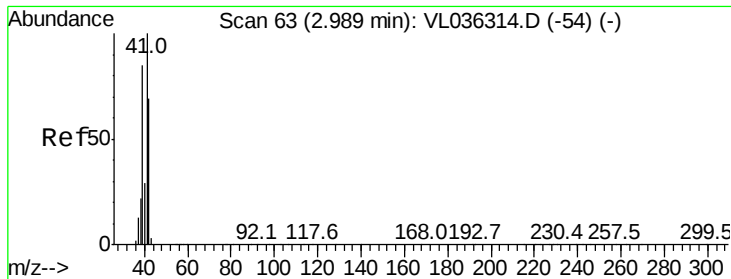
Tgt Ion: 50 Resp: 57964

Ion Ratio Lower Upper

50 100

52 27.6 27.0 40.4





#9

Propene

Concen: 1.972 ppbv

RT: 3.00 min Scan# 67

Delta R.T. 0.01 min

Lab File: VL036334.D

Acq: 11 Feb 2021 1:54

Instrument :

MSVOA_L

ClientSampleId :

SR-5B

Tot Ion: 41 Resp: 151346

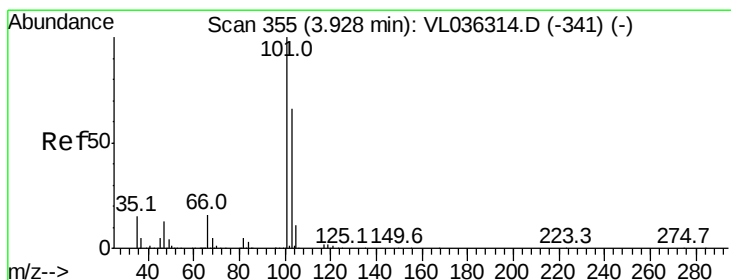
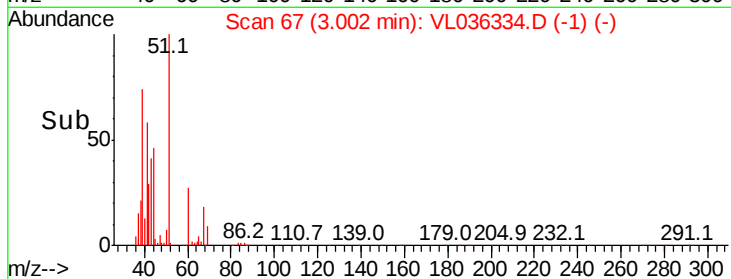
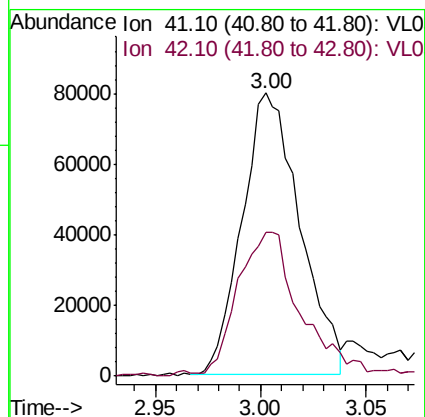
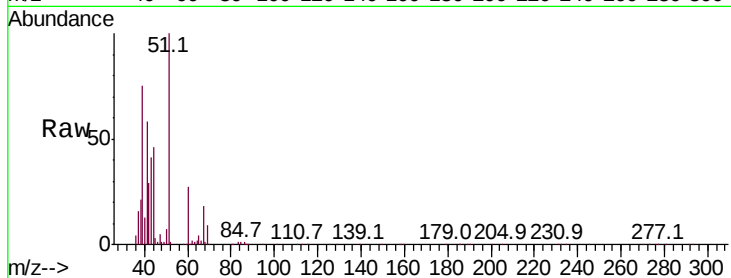
Ion Ratio Lower Upper

41 100

42 57.5 56.2 84.2

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#11

Trichlorofluoromethane

Concen: 0.211 ppbv

RT: 3.93 min Scan# 356

Delta R.T. 0.00 min

Lab File: VL036334.D

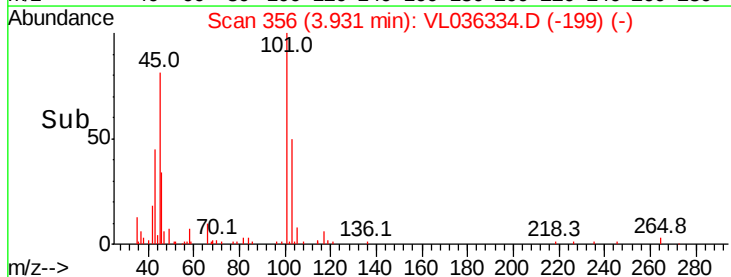
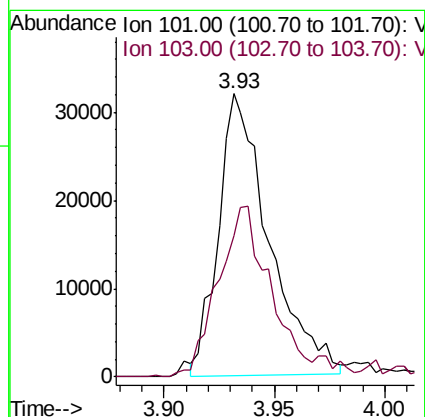
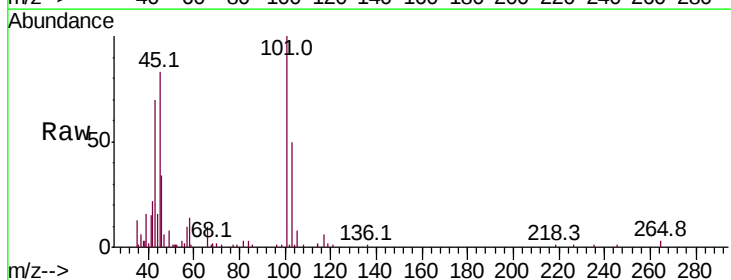
Acq: 11 Feb 2021 1:54

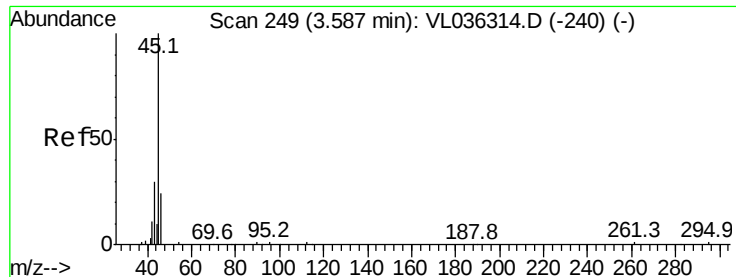
Tgt Ion: 101 Resp: 51059

Ion Ratio Lower Upper

101 100

103 49.6 52.9 79.3#





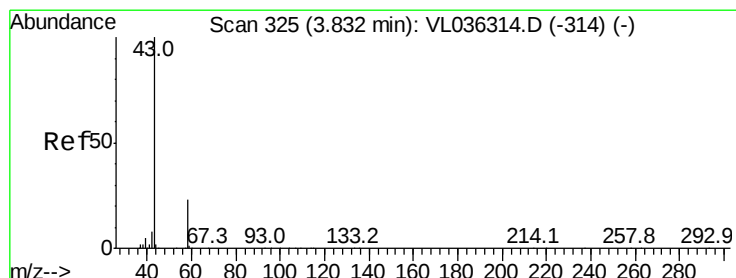
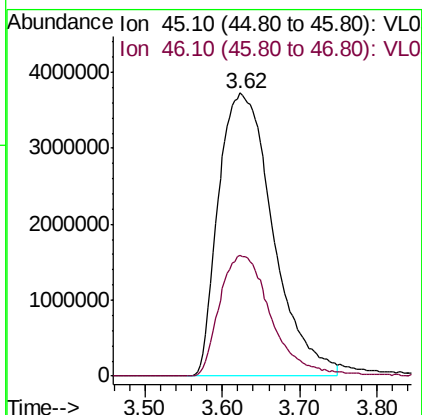
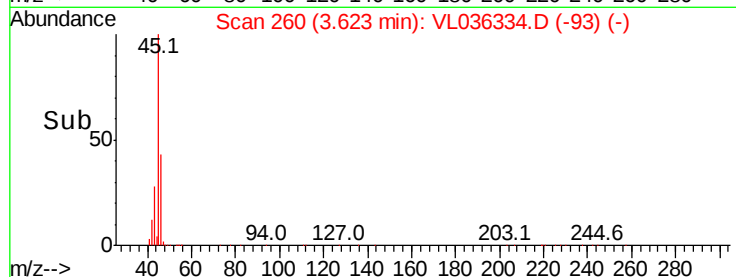
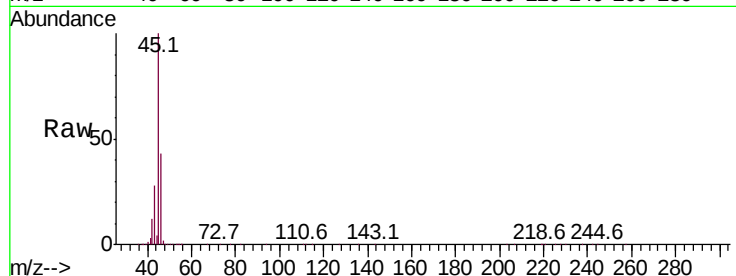
#13
Ethanol
Concen: 1270.417 ppbv
RT: 3.62 min Scan# 260
Delta R.T. 0.04 min
Lab File: VL036334.D
Acq: 11 Feb 2021 1:54

Instrument :
MSVOA_L
ClientSampleId :
SR-5B

Tot Ion: 45 Resp:18317945
Ion Ratio Lower Upper
45 100
46 40.8 17.7 70.7

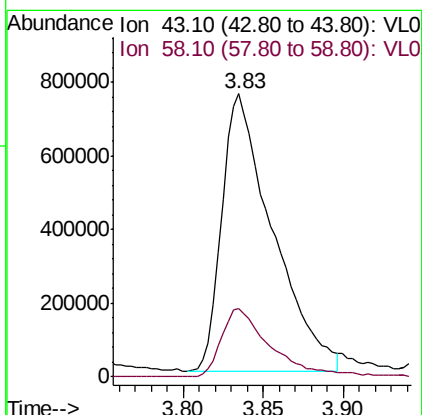
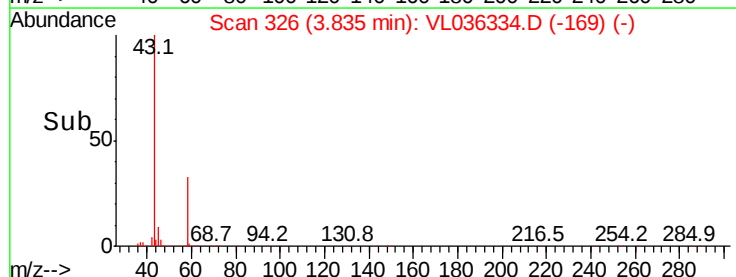
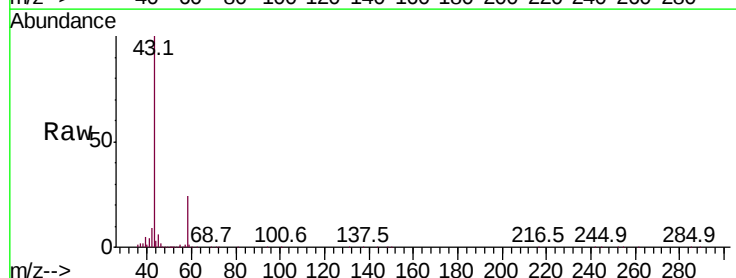
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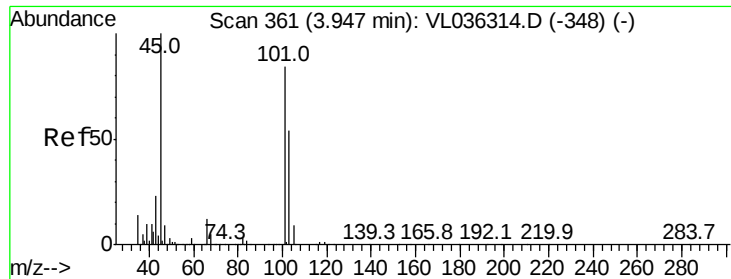
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#15
Acetone
Concen: 8.130 ppbv
RT: 3.83 min Scan# 326
Delta R.T. 0.00 min
Lab File: VL036334.D
Acq: 11 Feb 2021 1:54

Tgt Ion: 43 Resp: 1646868
Ion Ratio Lower Upper
43 100
58 24.3 20.3 30.5





#19

Isopropyl Alcohol

Concen: 111.384 ppbv m

RT: 4.00 min Scan# 376

Delta R.T. 0.05 min

Lab File: VL036334.D

Acq: 11 Feb 2021 1:54

Instrument :

MSVOA_L

ClientSampleId :

SR-5B

Tot Ion: 45 Resp: 12499912

Ion Ratio Lower Upper

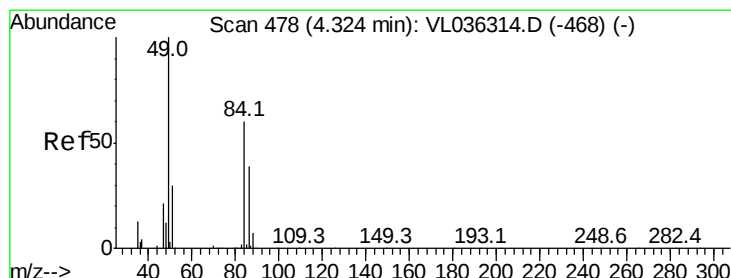
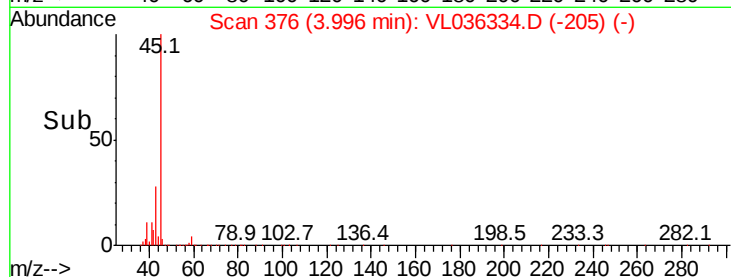
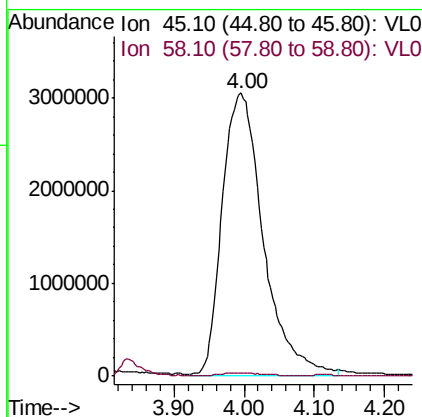
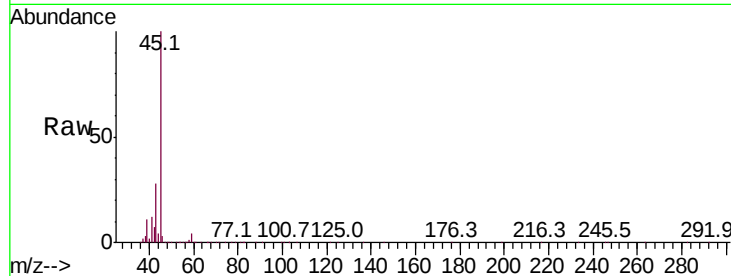
45 100

58 0.0 1.9 2.9#

Manual Integrations
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#20

Methylene Chloride

Concen: 3.716 ppbv

RT: 4.33 min Scan# 480

Delta R.T. 0.01 min

Lab File: VL036334.D

Acq: 11 Feb 2021 1:54

Tgt Ion: 84 Resp: 242816

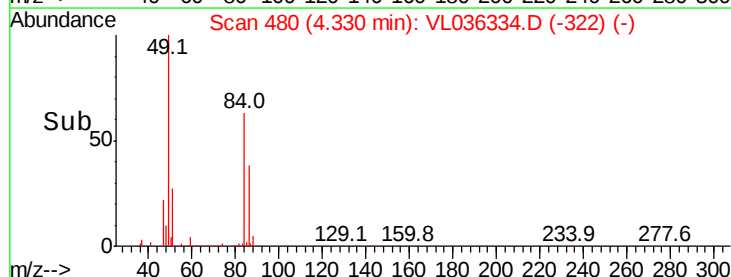
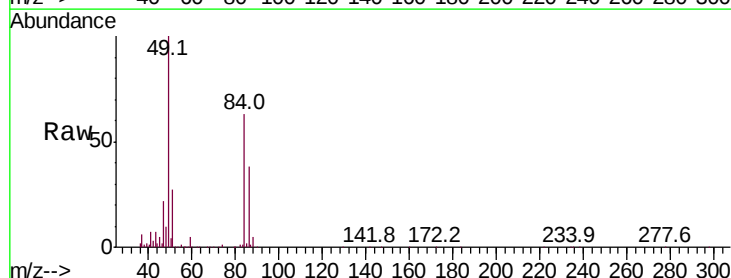
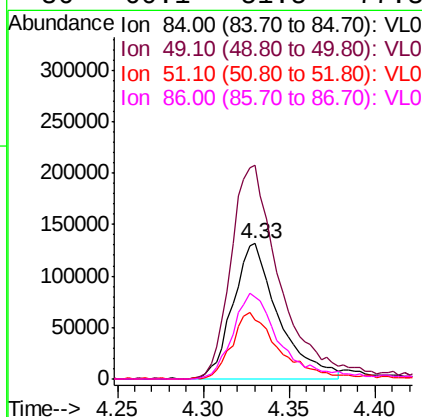
Ion Ratio Lower Upper

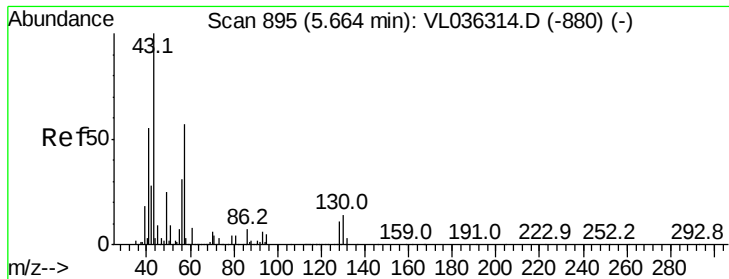
84 100

49 157.4 133.8 200.8

51 42.6 41.4 62.0

86 60.1 51.5 77.3





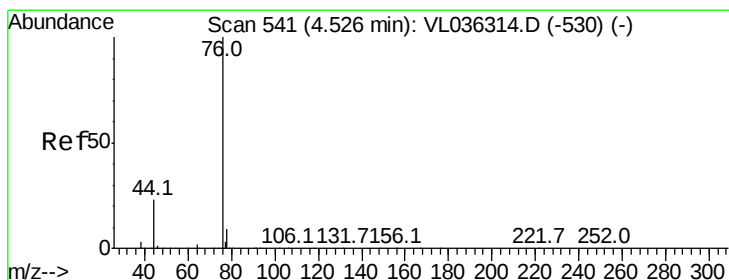
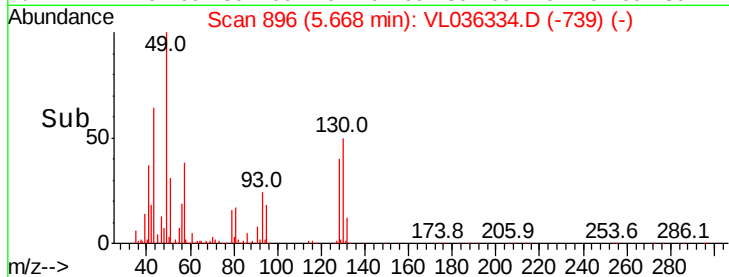
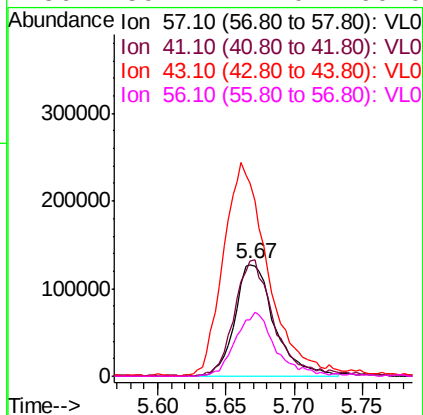
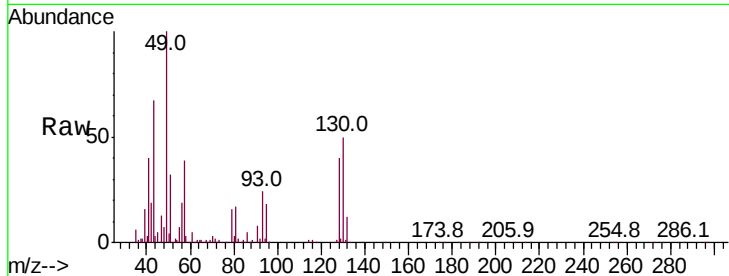
#26
Hexane
Concen: 1.598 ppbv
RT: 5.67 min Scan# 896
Delta R.T. 0.00 min
Lab File: VL036334.D
Acq: 11 Feb 2021 1:54

Instrument :
MSVOA_L
ClientSampleId :
SR-5B

Tot Ion	57	Resp	256682
Ion Ratio	Lower	Upper	
57	100		
41	105.3	81.7	122.5
43	217.0	199.1	298.7
56	59.4	44.0	66.0

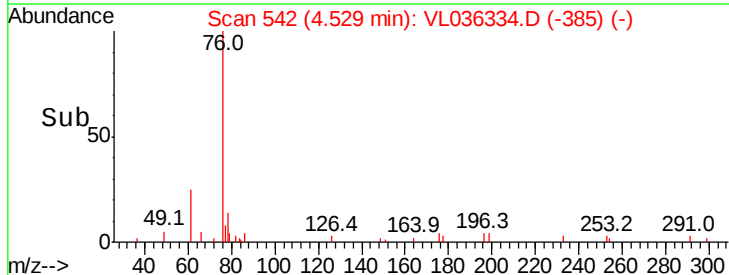
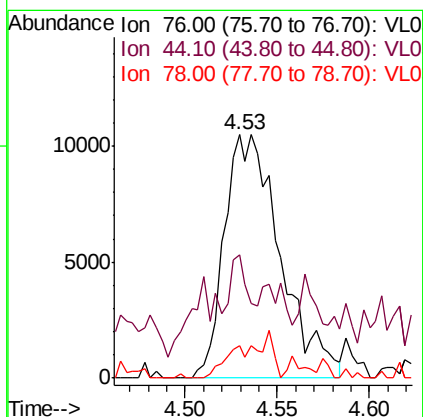
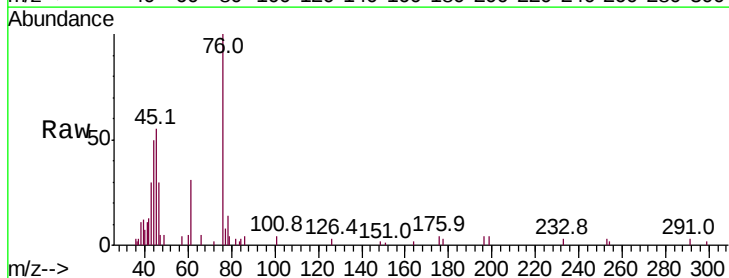
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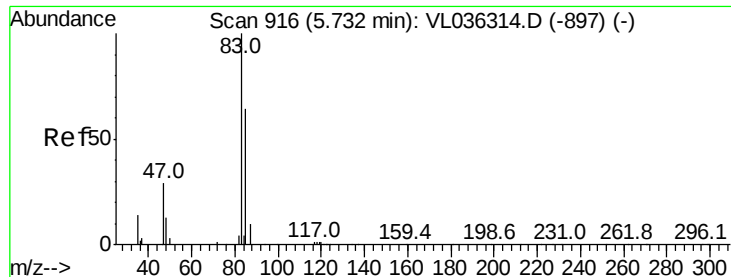
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#27
Carbon Disulfide
Concen: 0.150 ppbv m
RT: 4.53 min Scan# 542
Delta R.T. 0.00 min
Lab File: VL036334.D
Acq: 11 Feb 2021 1:54

Tgt Ion	76	Resp	22095
Ion Ratio	Lower	Upper	
76	100		
44	44.0	18.4	27.6#
78	0.0	8.0	12.0#





#29

Chloroform

Concen: 0.852 ppbv m

RT: 5.73 min Scan# 916

Delta R.T. 0.00 min

Lab File: VL036334.D

Acq: 11 Feb 2021 1:54

Instrument :

MSVOA_L

ClientSampleId :

SR-5B

Tot Ion: 83 Resp: 220605

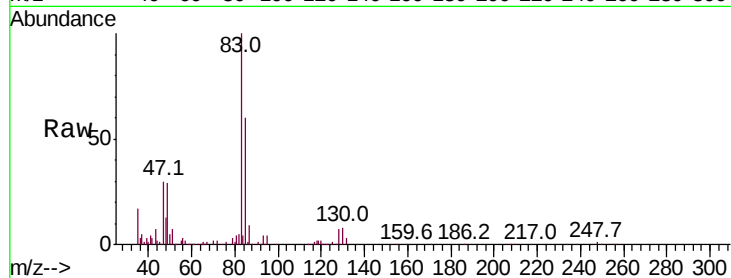
Ion Ratio Lower Upper

83 100

85 60.3 51.4 77.2

Manual Integrations
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Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0

5.73

120000

100000

80000

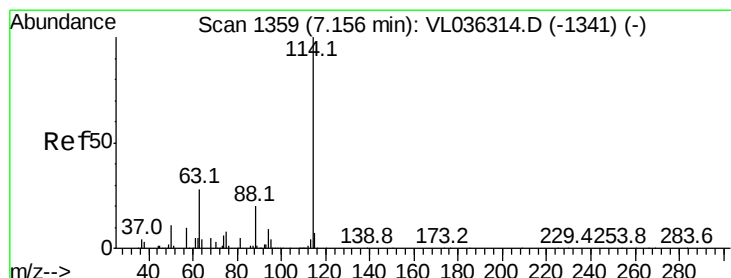
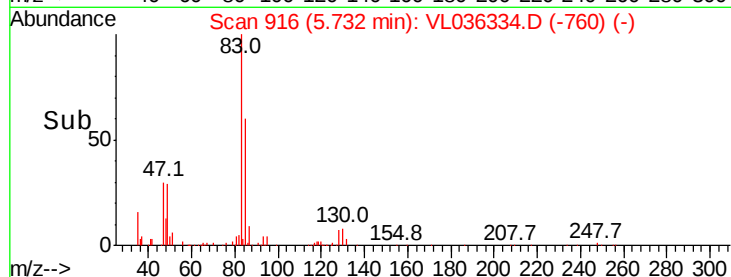
60000

40000

20000

0

Time-->



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.16 min Scan# 1359

Delta R.T. 0.00 min

Lab File: VL036334.D

Acq: 11 Feb 2021 1:54

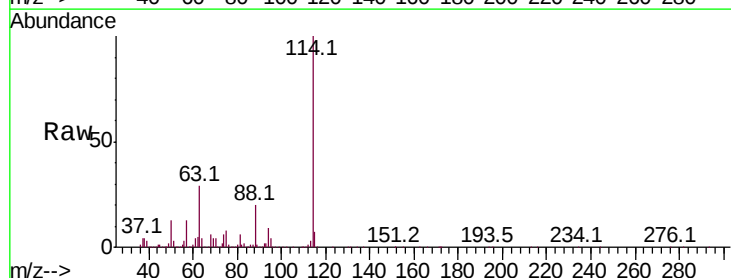
Tgt Ion: 114 Resp: 3543187

Ion Ratio Lower Upper

114 100

63 29.6 24.1 36.1

88 19.7 16.0 24.0



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

7.16

2000000

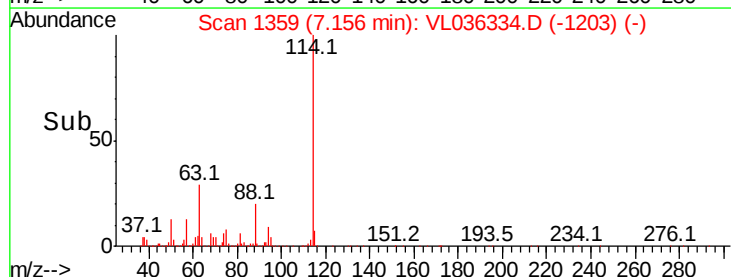
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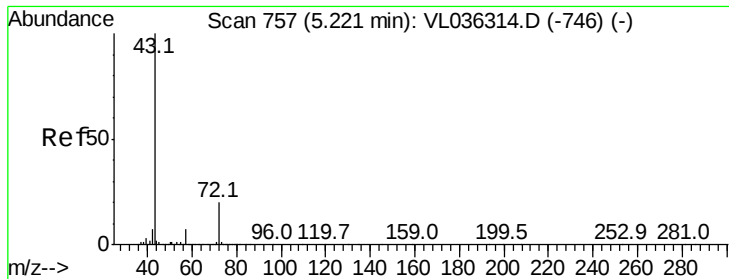
1000000

500000

0

Time-->





#34

2-Butanone

Concen: 0.497 ppbv

RT: 5.23 min Scan# 760

Delta R.T. 0.01 min

Lab File: VL036334.D

Acq: 11 Feb 2021 1:54

Instrument :

MSVOA_L

ClientSampleId :

SR-5B

Tot Ion: 43 Resp: 117053

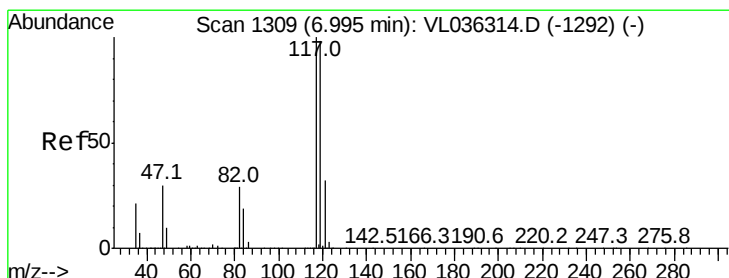
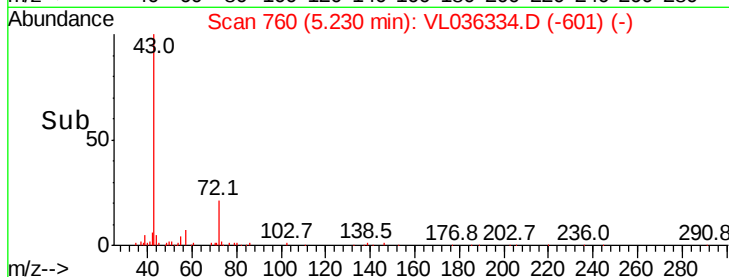
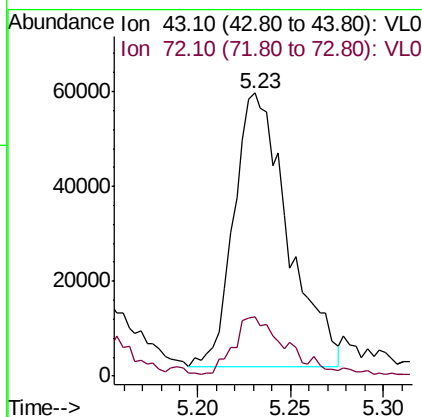
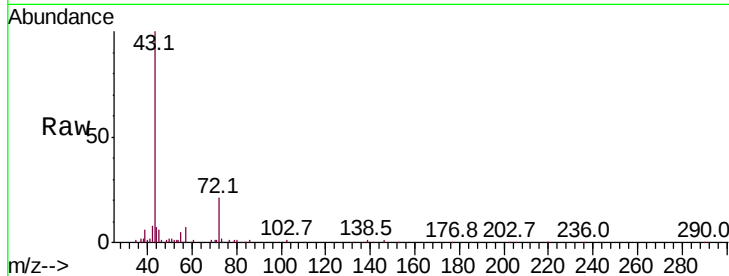
Ion Ratio Lower Upper

43 100

72 24.4 16.7 25.1

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#35

Carbon Tetrachloride

Concen: 0.073 ppbv m

RT: 7.00 min Scan# 1310

Delta R.T. 0.00 min

Lab File: VL036334.D

Acq: 11 Feb 2021 1:54

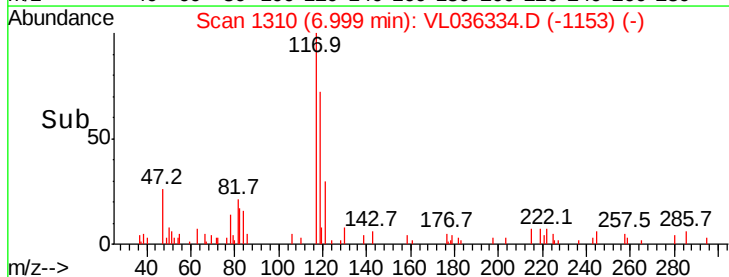
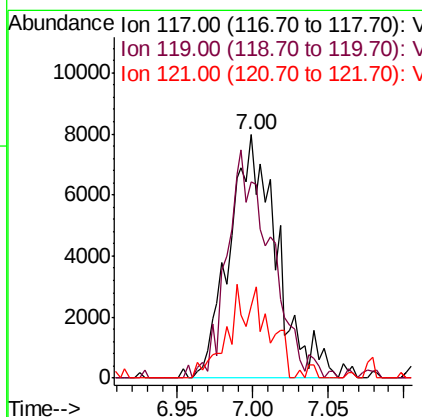
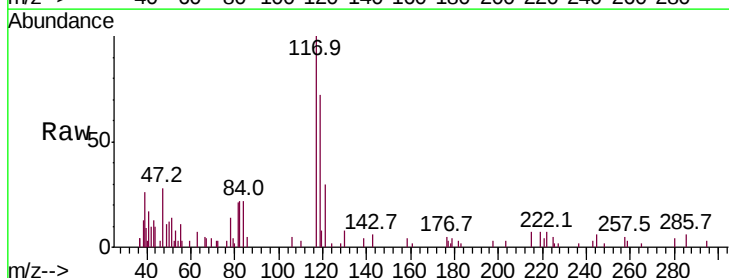
Tgt Ion: 117 Resp: 17388

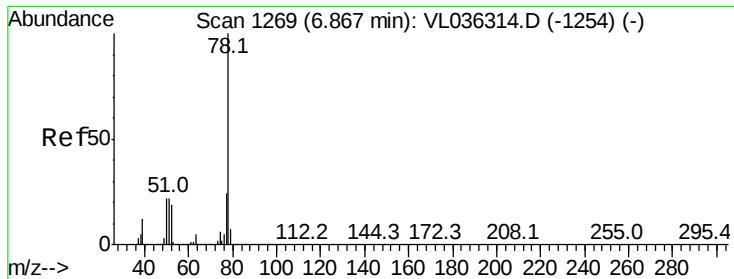
Ion Ratio Lower Upper

117 100

119 72.4 78.1 117.1#

121 29.6 25.8 38.8





#36

Benzene

Concen: 2.172 ppbv

RT: 6.87 min Scan# 1270

Delta R.T. 0.00 min

Lab File: VL036334.D

Acq: 11 Feb 2021 1:54

Instrument :

MSVOA_L

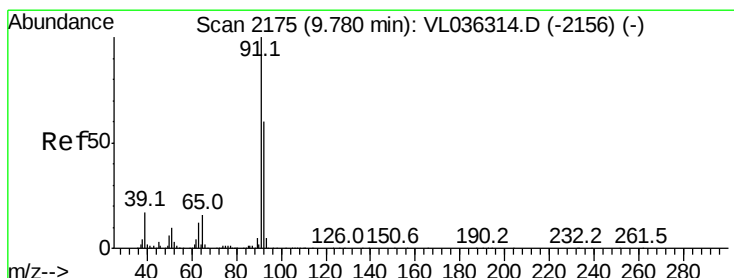
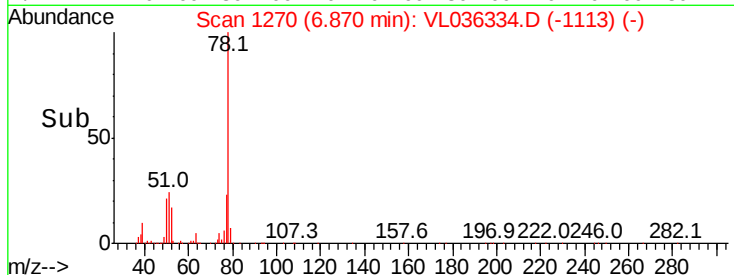
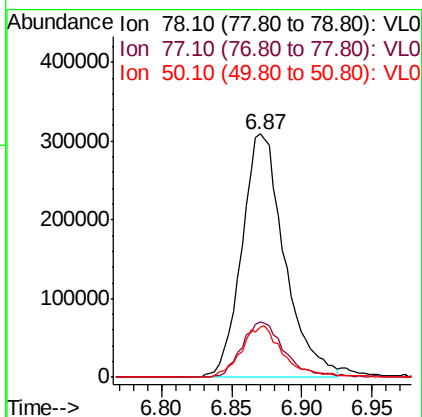
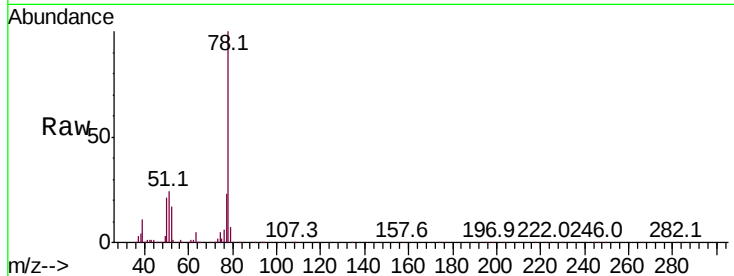
ClientSampleId :

SR-5B

Tot Ion:	78	Resp:	653729
Ion	Ratio	Lower	Upper
78	100		
77	22.6	18.9	28.3
50	20.7	17.3	25.9

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#53

Toluene

Concen: 0.990 ppbv

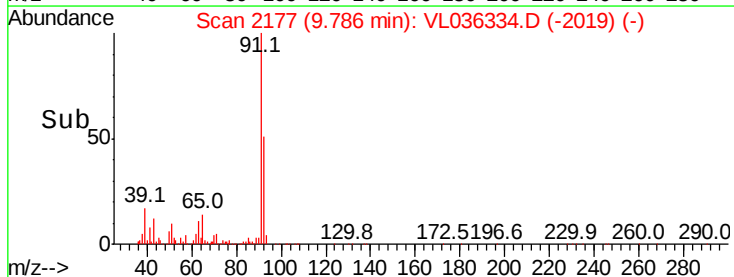
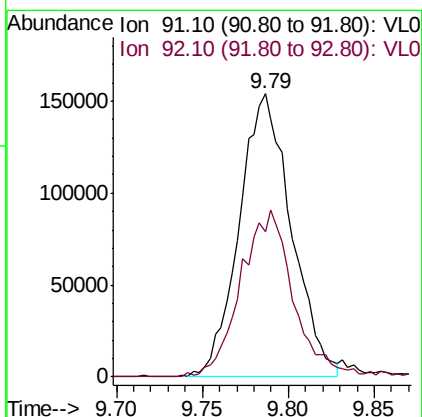
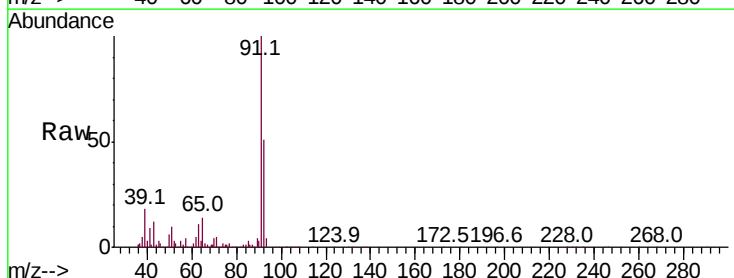
RT: 9.79 min Scan# 2177

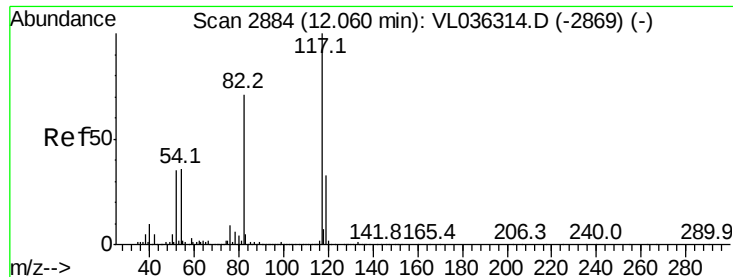
Delta R.T. 0.01 min

Lab File: VL036334.D

Acq: 11 Feb 2021 1:54

Tgt Ion:	91	Resp:	322722
Ion	Ratio	Lower	Upper
91	100		
92	61.2	48.6	72.8





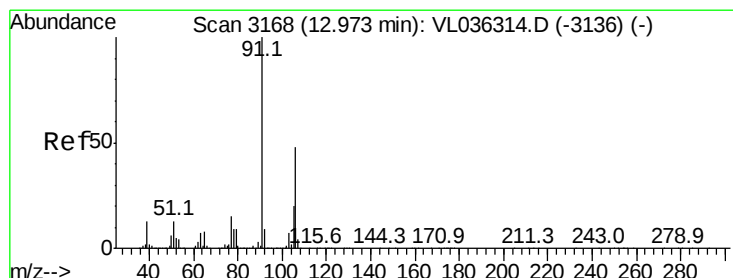
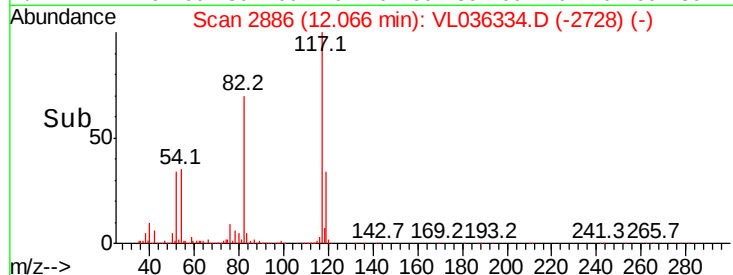
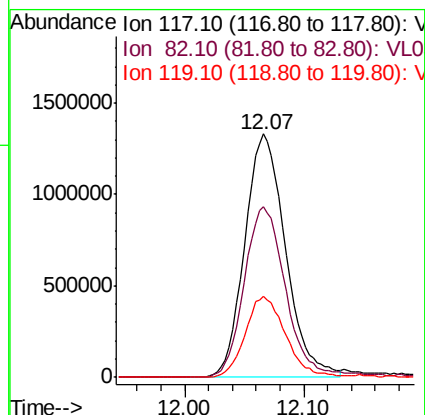
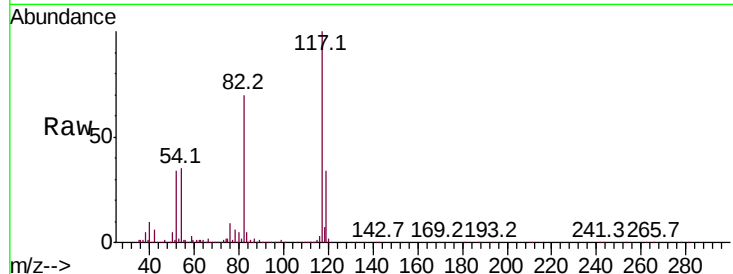
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.07 min Scan# 2886
Delta R.T. 0.01 min
Lab File: VL036334.D
Acq: 11 Feb 2021 1:54

Instrument :
MSVOA_L
ClientSampleId :
SR-5B

Tot Ion	Ratio	Lower	Upper
117	100		
82	73.4	59.1	88.7
119	33.6	46.3	69.5

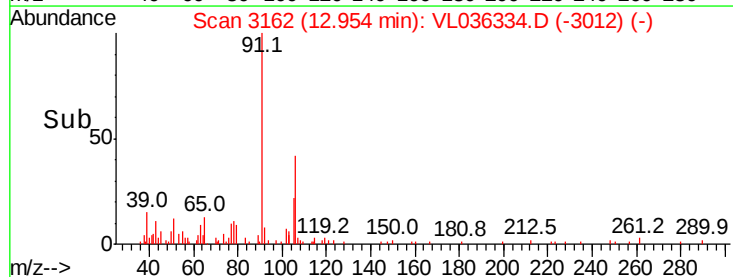
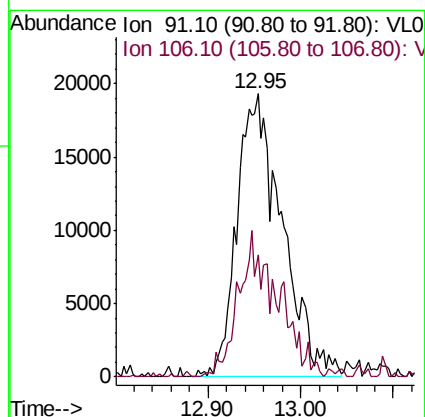
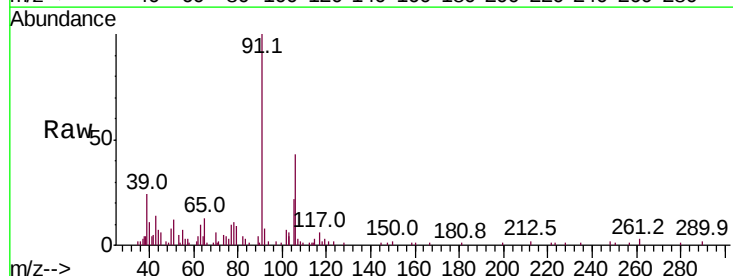
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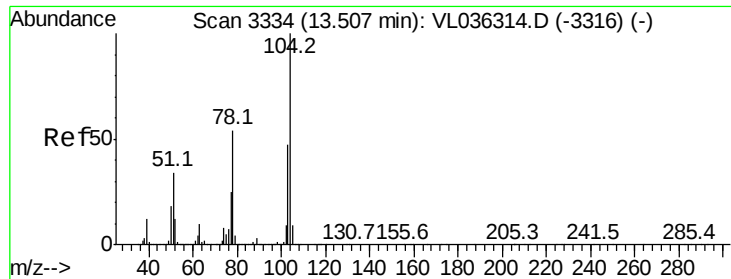
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#59
m/p-Xylene
Concen: 0.171 ppbv m
RT: 12.95 min Scan# 3162
Delta R.T. -0.02 min
Lab File: VL036334.D
Acq: 11 Feb 2021 1:54

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.2	51.2





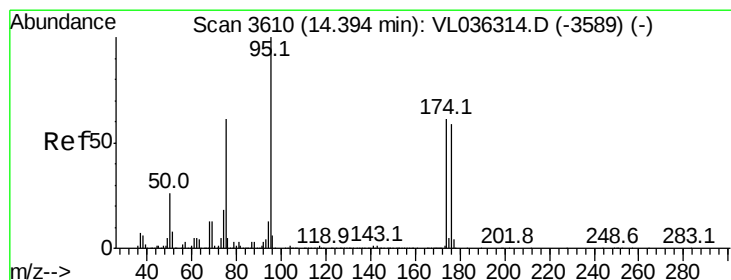
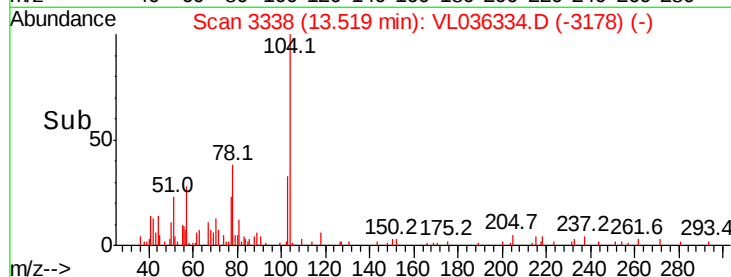
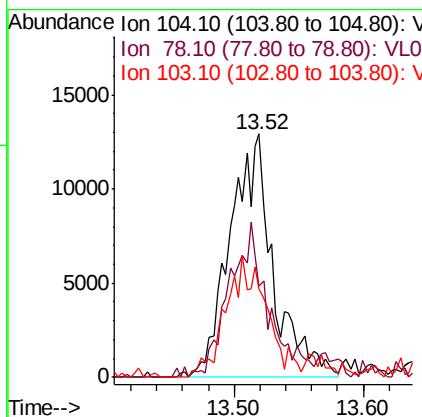
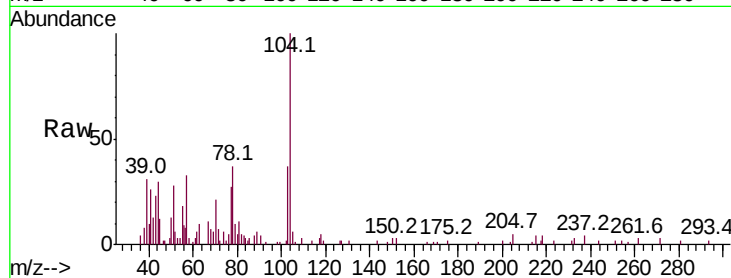
#61
Stvrene
Concen: 0.134 ppbv m
RT: 13.52 min Scan# 3338
Delta R.T. 0.01 min
Lab File: VL036334.D
Acq: 11 Feb 2021 1:54

Instrument :
MSVOA_L
ClientSampleId :
SR-5B

Tot Ion	Ratio	Lower	Upper
104	100		
78	63.4	46.2	69.2
103	53.8	38.3	57.5

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.046 ppbv
RT: 14.40 min Scan# 3611
Delta R.T. 0.00 min
Lab File: VL036334.D
Acq: 11 Feb 2021 1:54

Tgt Ion	Ratio	Lower	Upper
95	100		
174	63.0	49.8	74.6
175	4.7	3.7	5.5

