

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL062619\
 Data File : VL033972.D
 Acq On : 26 Jun 2019 18:02
 Operator : SY/AP
 Sample : K3538-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-AIR

Manual Integrations
 APPROVED

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 6/27/2019 3:01:08 PM

Quant Time: Jun 27 05:26:59 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 0
 QLast Update : Fri Jun 07 08:53:27 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.74	49	668988	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.26	114	1556691	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.21	117	1526963	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.55	95	1298175	10.35	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.06	85	32337	0.298	ppbv	99
3) Chlorodifluoromethane	3.00	51	34578m	0.439	ppbv	
4) Chloromethane	3.16	50	24587	0.547	ppbv #	79
9) Propene	3.03	41	18345	0.623	ppbv	86
11) Trichlorofluoromethane	3.98	101	39335	0.281	ppbv	97
13) Ethanol	3.63	45	112126	11.695	ppbv	98
15) Acetone	3.88	43	681169	6.981	ppbv	97
19) Isopropyl Alcohol	4.01	45	36761	0.660	ppbv #	94
20) Methylene Chloride	4.39	84	44511	1.170	ppbv	91
26) Hexane	5.76	57	63045m	0.932	ppbv	
34) 2-Butanone	5.31	43	67342	0.767	ppbv	99
35) Carbon Tetrachloride	7.10	117	9765m	0.081	ppbv	
36) Benzene	6.97	78	17993m	0.151	ppbv	
44) 2,2,4-Trimethylpentane	7.97	57	39653	0.188	ppbv #	60
52) Tetrachloroethene	11.34	164	1774m	0.042	ppbv	
53) Toluene	9.92	91	323253	2.456	ppbv	99
59) m/p-Xylene	13.10	91	17119m	0.109	ppbv	

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

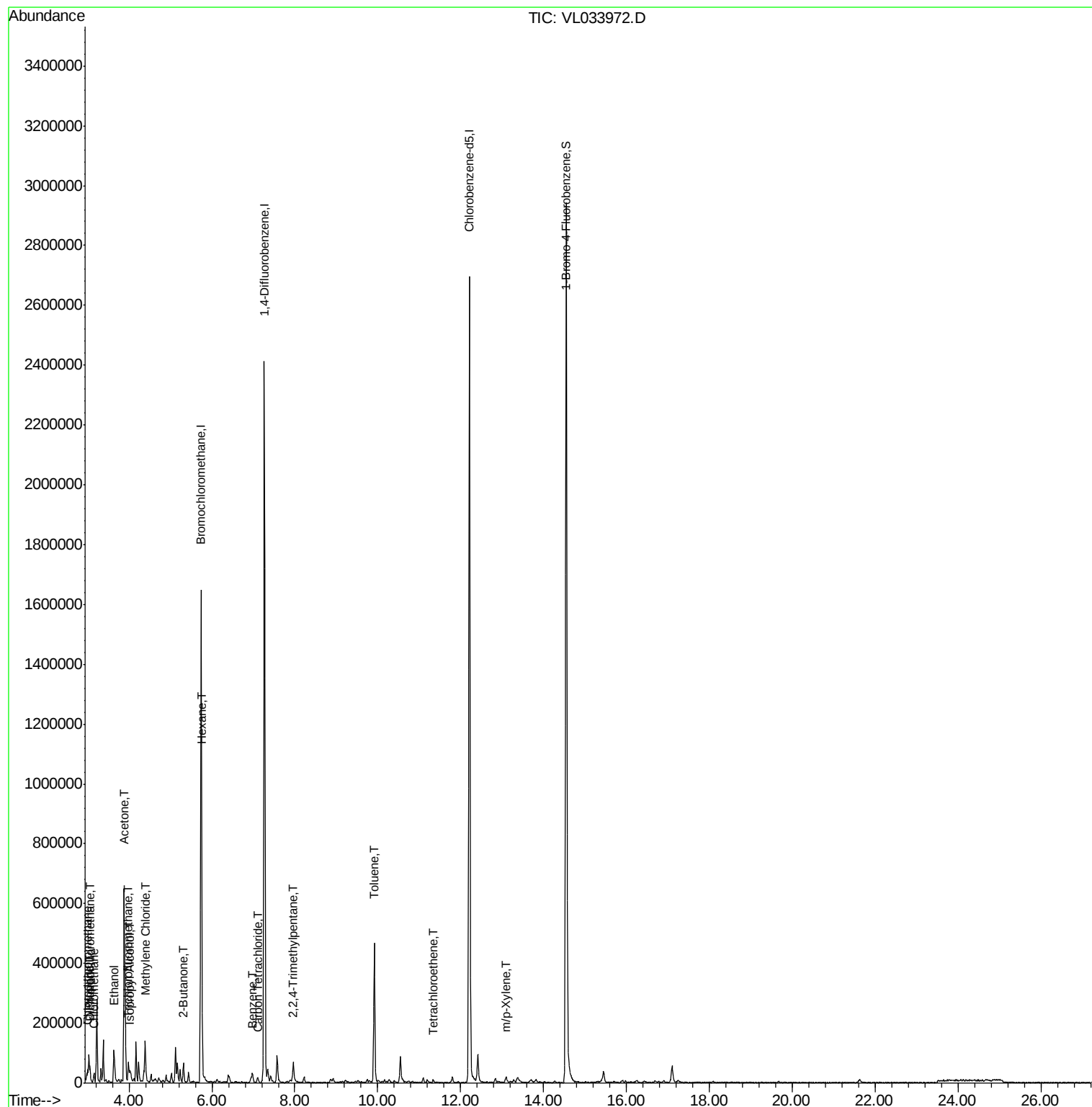
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL062619\
Data File : VL033972.D
Acq On : 26 Jun 2019 18:02
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

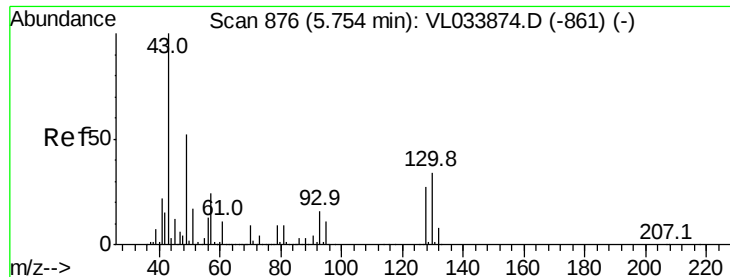
Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AIR

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Quant Time: Jun 27 05:26:59 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL060719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 07 08:53:27 2019
Response via : Initial Calibration





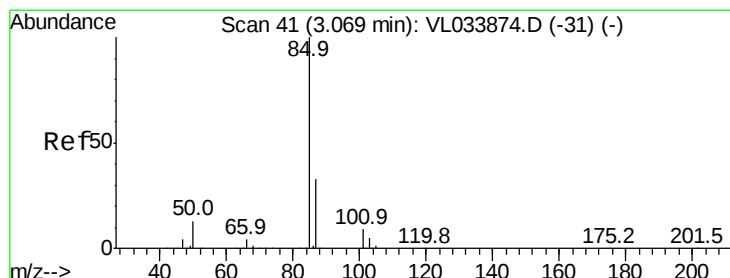
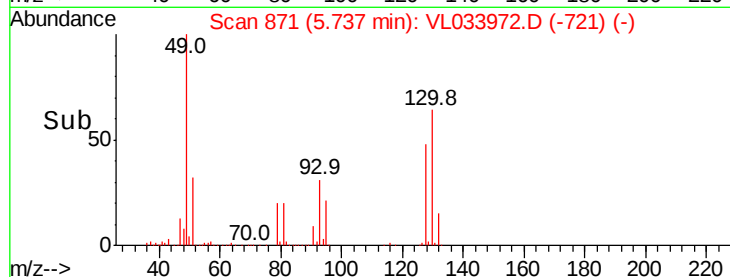
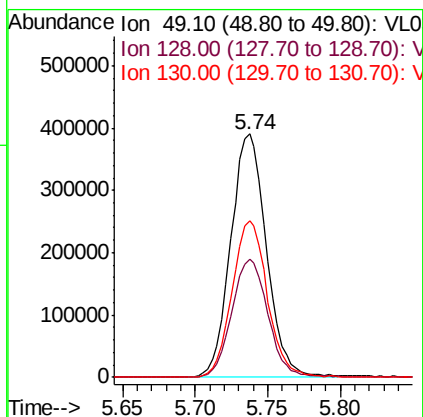
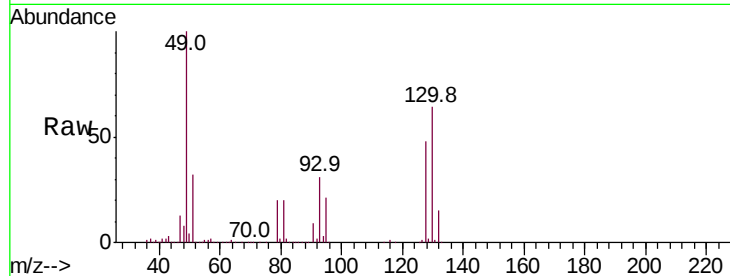
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.74 min Scan# 871
Delta R.T. -0.02 min
Lab File: VL033972.D
Acq: 26 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AIR

Tot Ion: 49 Resp: 668988
Ion Ratio Lower Upper
49 100
128 49.5 25.5 76.5
130 64.0 32.5 97.4

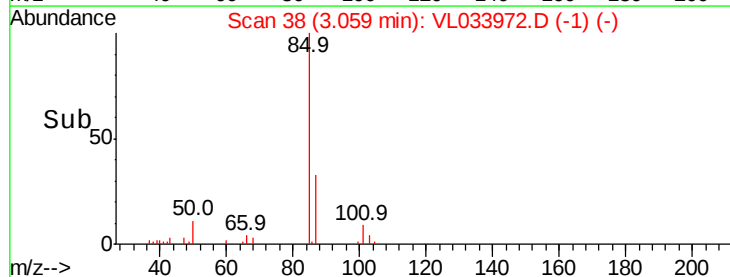
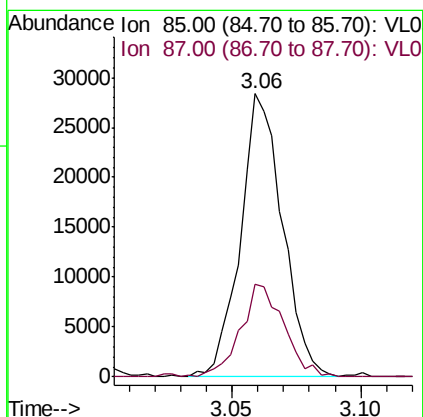
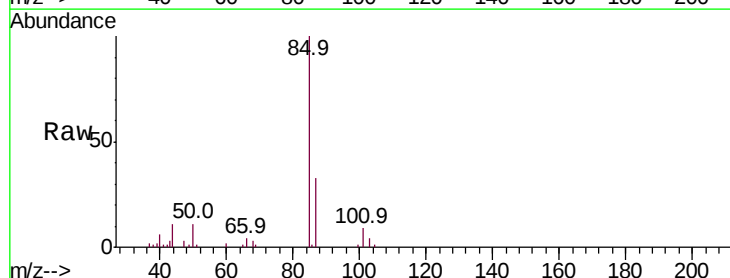
Manual Integrations
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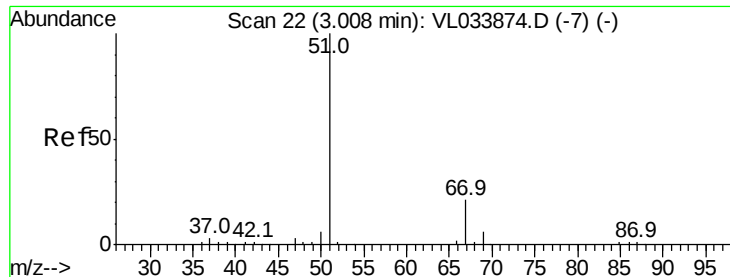
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#2
Dichlorodifluoromethane
Concen: 0.298 ppbv
RT: 3.06 min Scan# 38
Delta R.T. -0.01 min
Lab File: VL033972.D
Acq: 26 Jun 2019 18:02

Tgt Ion: 85 Resp: 32337
Ion Ratio Lower Upper
85 100
87 32.6 26.6 40.0





#3

Chlorodifluoromethane

Concen: 0.439 ppbv

RT: 3.00 min Scan# 20

Delta R.T. -0.01 min

Lab File: VL033972.D

Acq: 26 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AIR

Tot Ion: 51 Resp: 34578

Ion Ratio Lower Upper

51 100

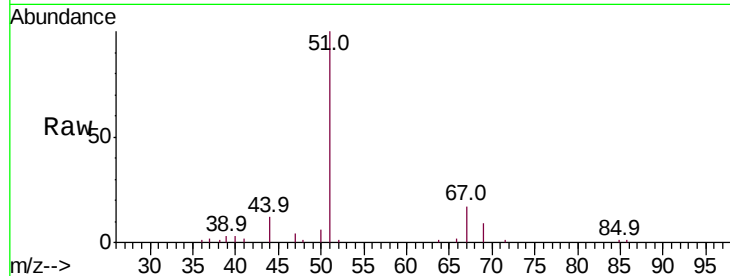
67 21.4 16.4 24.6

Manual Integrations

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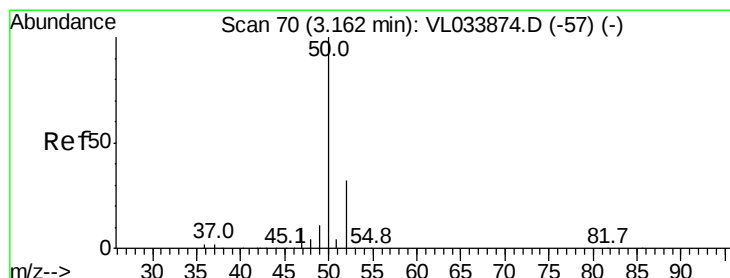
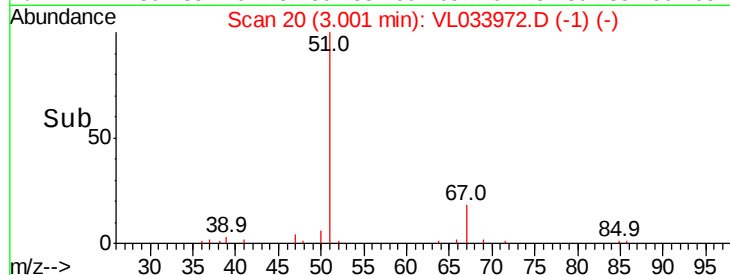
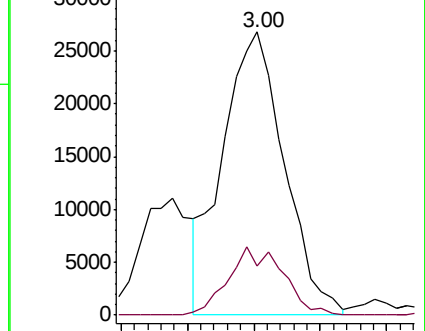
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.547 ppbv

RT: 3.16 min Scan# 68

Delta R.T. -0.01 min

Lab File: VL033972.D

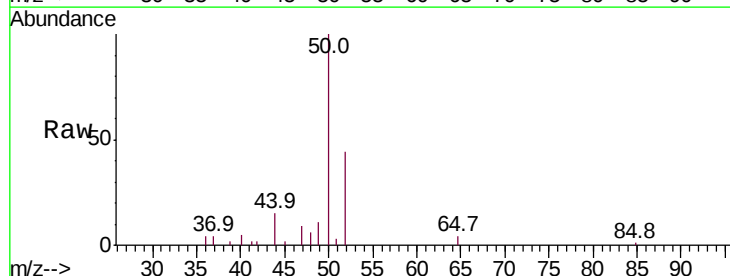
Acq: 26 Jun 2019 18:02

Tgt Ion: 50 Resp: 24587

Ion Ratio Lower Upper

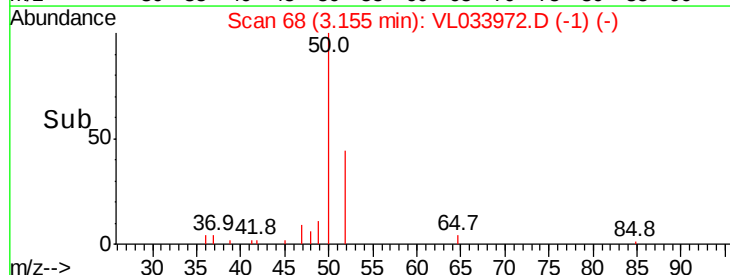
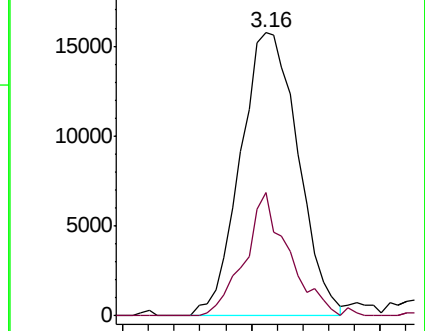
50 100

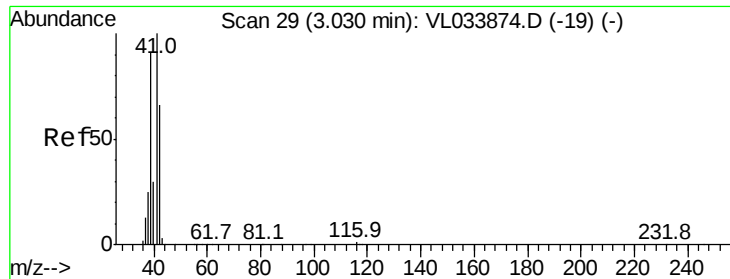
52 43.6 25.4 38.0#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.623 ppbv

RT: 3.03 min Scan# 30

Delta R.T. 0.00 min

Lab File: VL033972.D

Acq: 26 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AIR

Tot Ion: 41 Resp: 18345

Ion Ratio Lower Upper

41 100

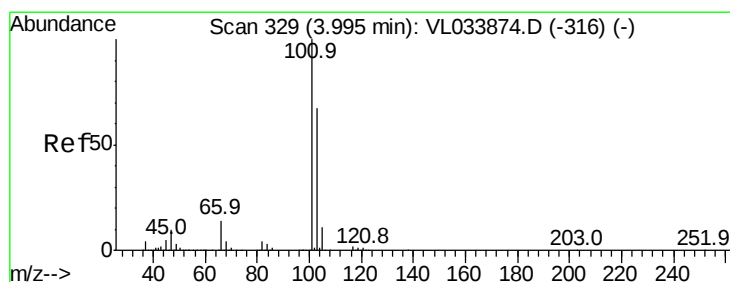
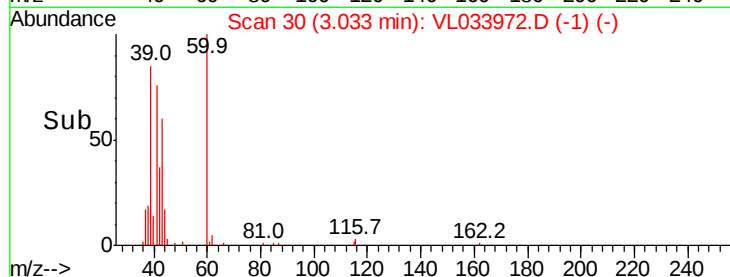
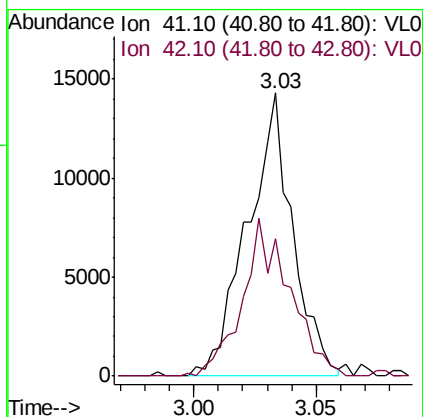
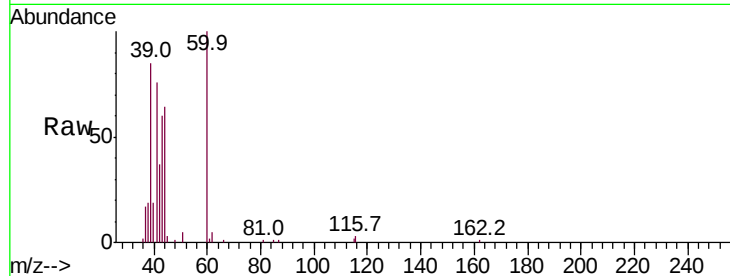
42 58.7 56.3 84.5

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#11

Trichlorofluoromethane

Concen: 0.281 ppbv

RT: 3.98 min Scan# 326

Delta R.T. -0.01 min

Lab File: VL033972.D

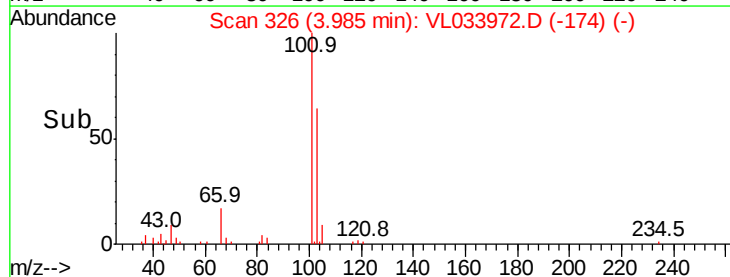
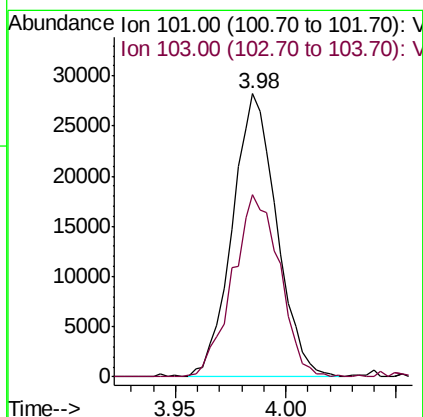
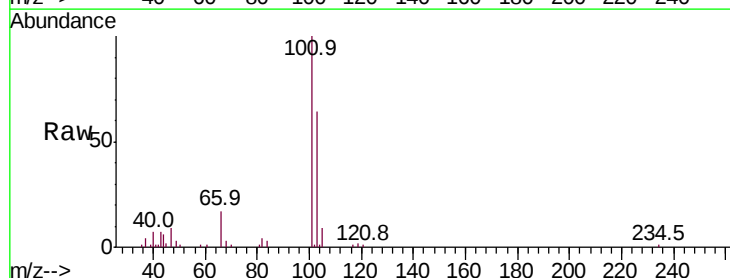
Acq: 26 Jun 2019 18:02

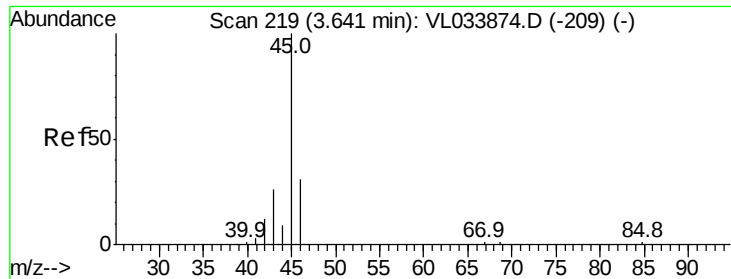
Tgt Ion: 101 Resp: 39335

Ion Ratio Lower Upper

101 100

103 64.6 53.6 80.4





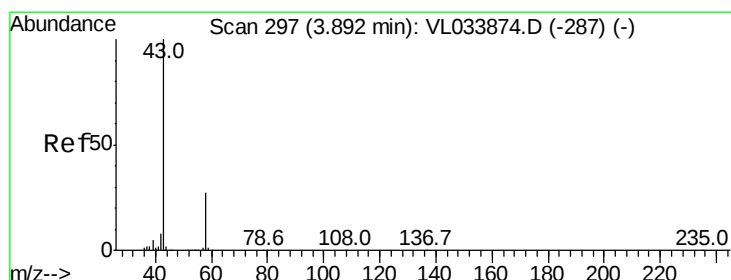
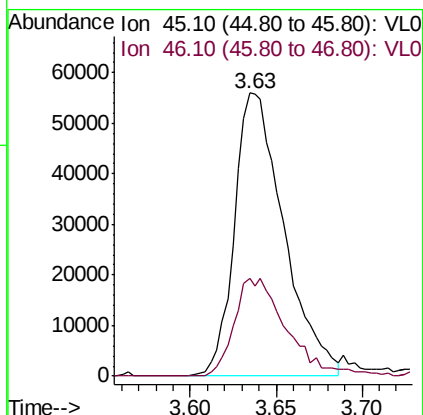
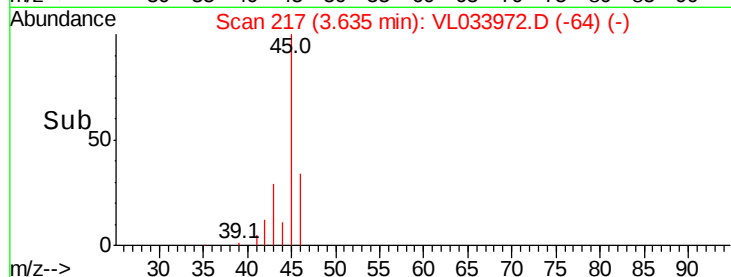
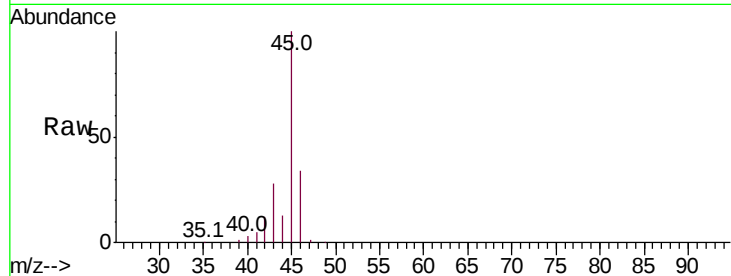
#13
Ethanol
Concen: 11.695 ppbv
RT: 3.63 min Scan# 217
Delta R.T. -0.01 min
Lab File: VL033972.D
Acq: 26 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AIR

Tot Ion: 45 Resp: 112126
Ion Ratio Lower Upper
45 100
46 36.7 15.3 61.1

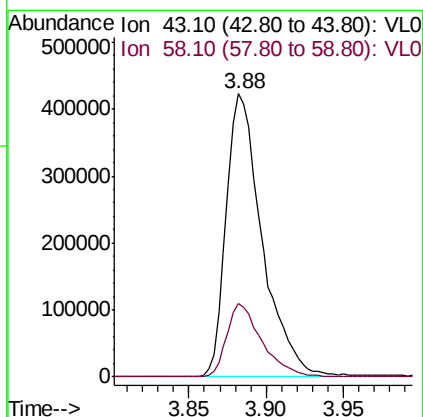
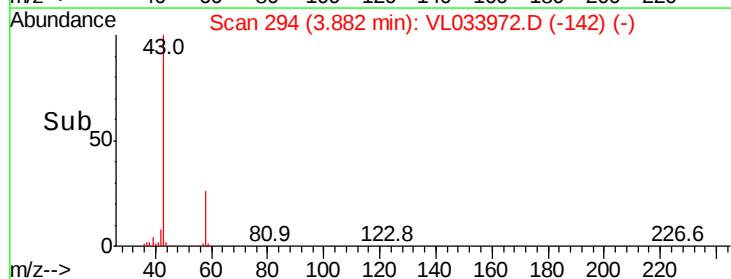
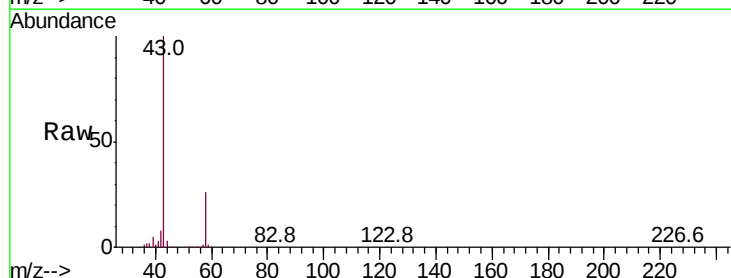
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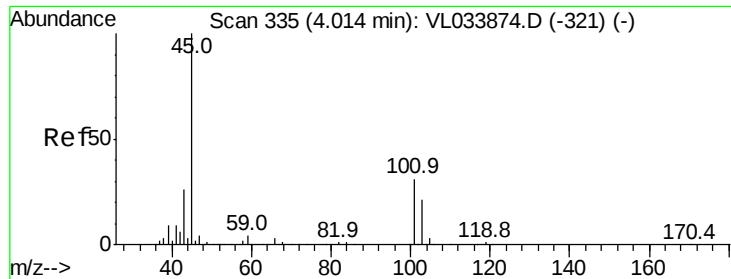
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#15
Acetone
Concen: 6.981 ppbv
RT: 3.88 min Scan# 294
Delta R.T. -0.01 min
Lab File: VL033972.D
Acq: 26 Jun 2019 18:02

Tgt Ion: 43 Resp: 681169
Ion Ratio Lower Upper
43 100
58 25.3 21.3 31.9





#19

Isopropyl Alcohol

Concen: 0.660 ppbv

RT: 4.01 min Scan# 335

Delta R.T. -0.00 min

Lab File: VL033972.D

Acq: 26 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AIR

Tot Ion: 45 Resp: 36761

Ion Ratio Lower Upper

45 100

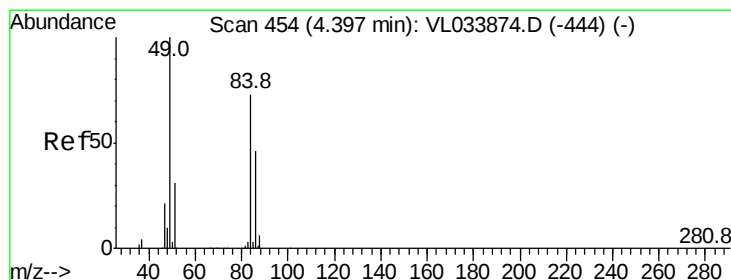
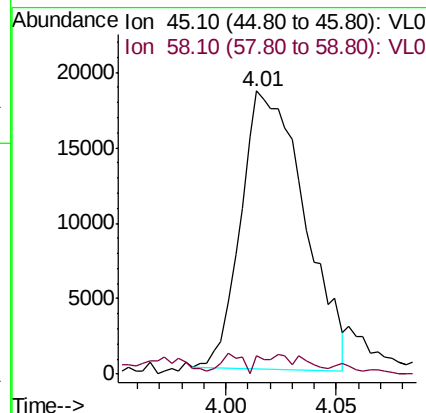
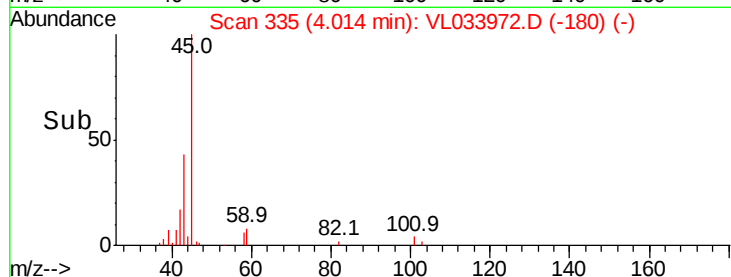
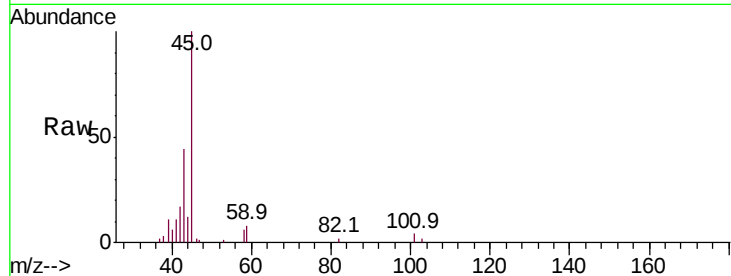
58 0.0 1.8 2.6#

Manual Integrations

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#20

Methylene Chloride

Concen: 1.170 ppbv

RT: 4.39 min Scan# 451

Delta R.T. -0.01 min

Lab File: VL033972.D

Acq: 26 Jun 2019 18:02

Tgt Ion: 84 Resp: 44511

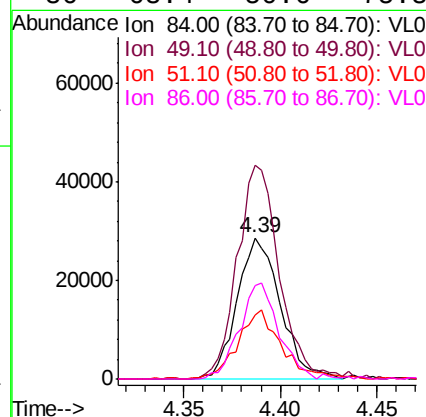
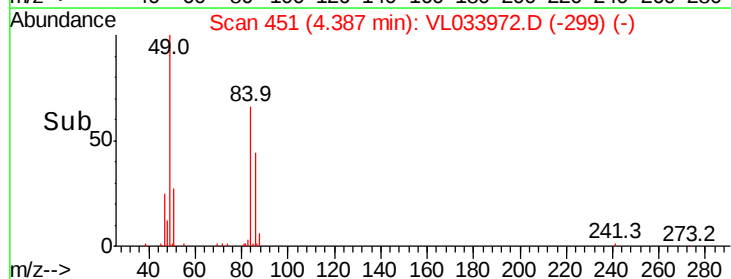
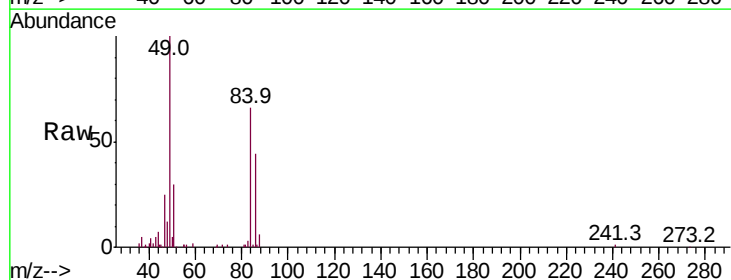
Ion Ratio Lower Upper

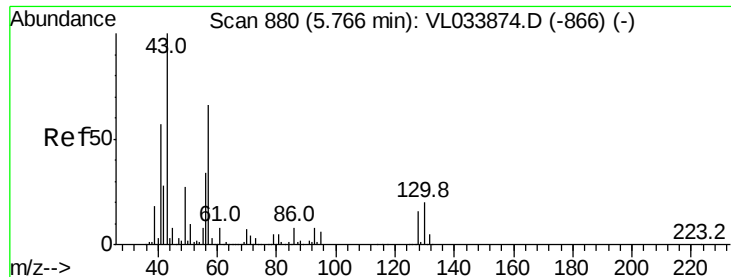
84 100

49 151.6 110.0 165.0

51 44.1 34.6 51.8

86 68.4 50.6 75.8





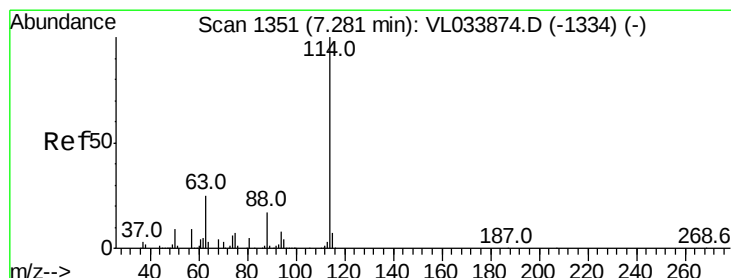
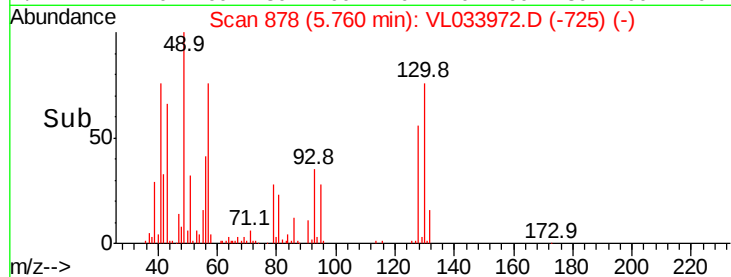
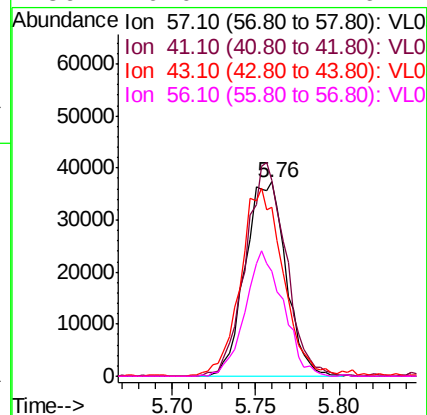
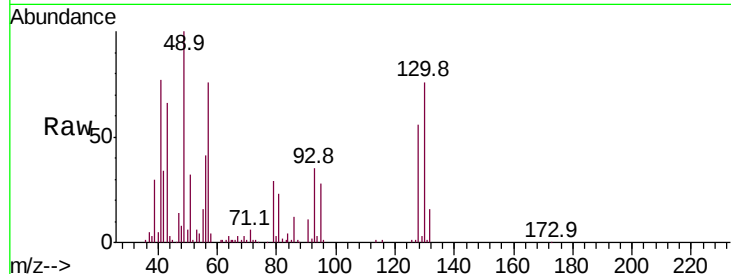
#26
Hexane
Concen: 0.932 ppbv m
RT: 5.76 min Scan# 878
Delta R.T. -0.01 min
Lab File: VL033972.D
Acq: 26 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AIR

Tot Ion: 57 Resp: 63045
Ion Ratio Lower Upper
57 100
41 0.0 71.4 107.2#
43 0.0 183.7 275.5#
56 0.0 42.7 64.1#

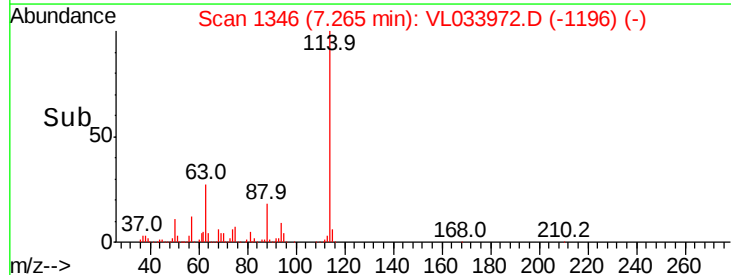
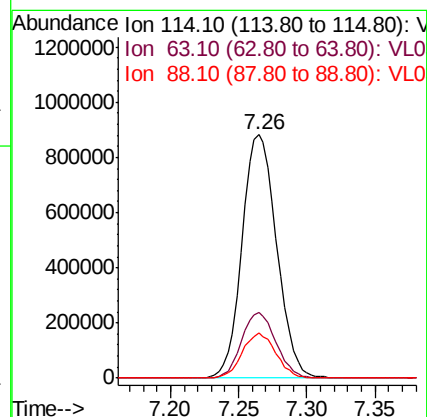
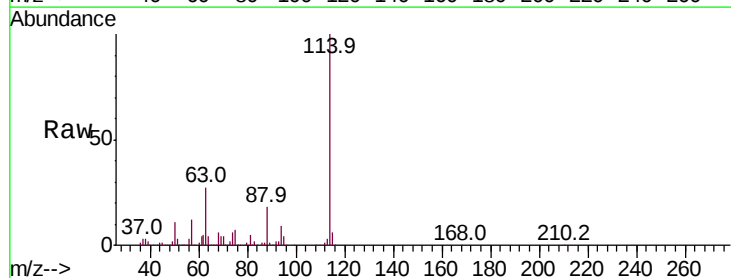
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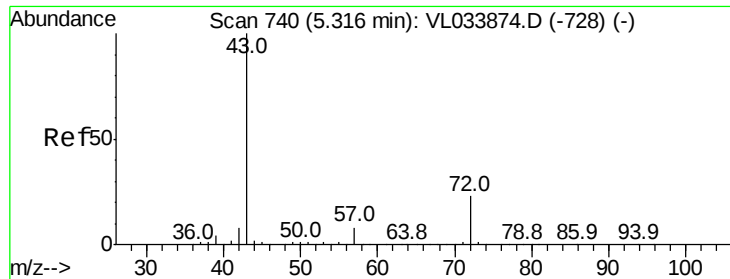
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.26 min Scan# 1346
Delta R.T. -0.02 min
Lab File: VL033972.D
Acq: 26 Jun 2019 18:02

Tgt Ion: 114 Resp: 1556691
Ion Ratio Lower Upper
114 100
63 26.7 21.1 31.7
88 17.8 14.2 21.4





#34

2-Butanone

Concen: 0.767 ppbv

RT: 5.31 min Scan# 739

Delta R.T. -0.00 min

Lab File: VL033972.D

Acq: 26 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AIR

Tot Ion: 43 Resp: 67342

Ion Ratio Lower Upper

43 100

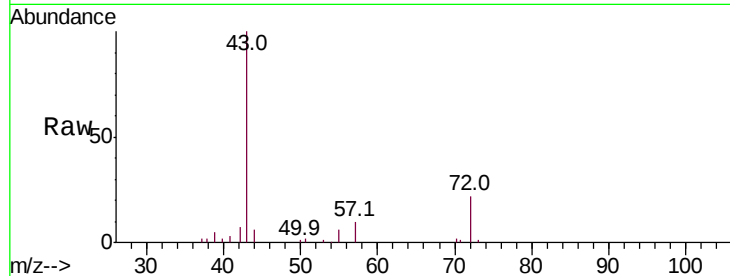
72 21.8 17.9 26.9

Manual Integrations

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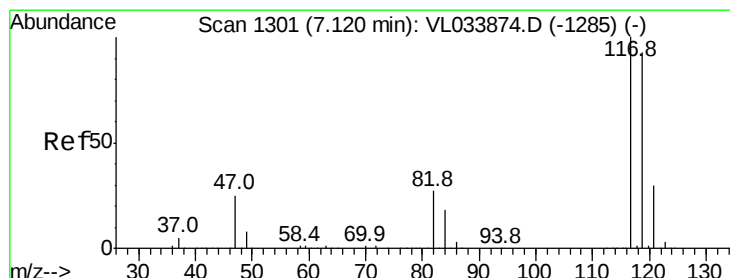
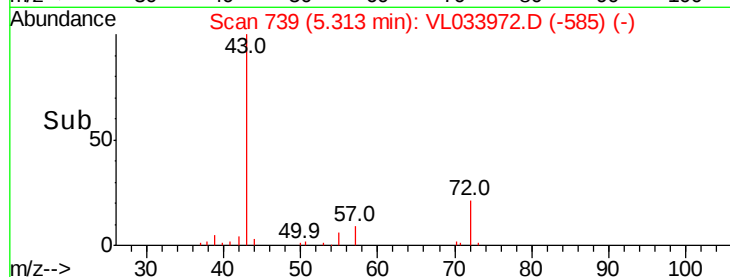
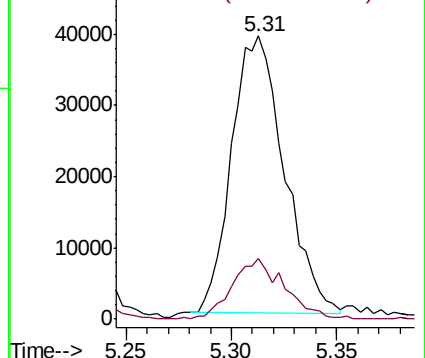
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6/27/2019 3:01:08 PM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0



#35

Carbon Tetrachloride

Concen: 0.081 ppbv m

RT: 7.10 min Scan# 1295

Delta R.T. -0.02 min

Lab File: VL033972.D

Acq: 26 Jun 2019 18:02

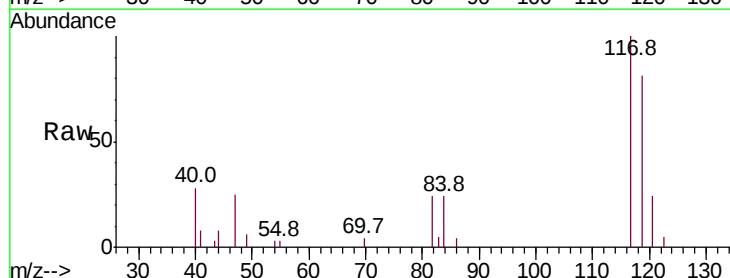
Tgt Ion: 117 Resp: 9765

Ion Ratio Lower Upper

117 100

119 80.9 74.6 111.8

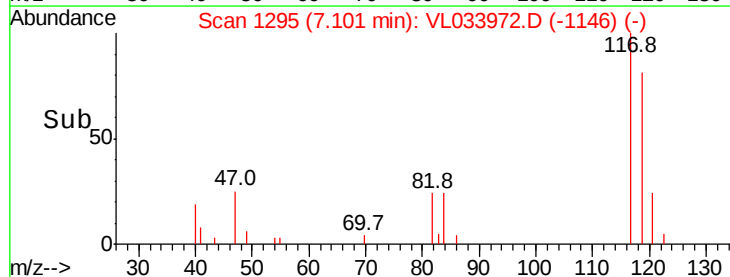
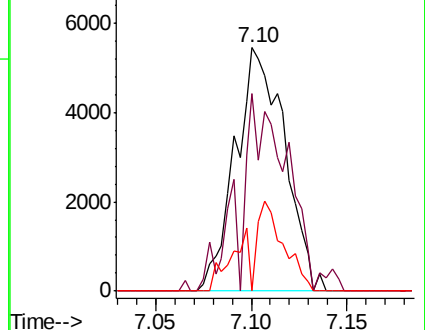
121 0.0 24.0 36.0#

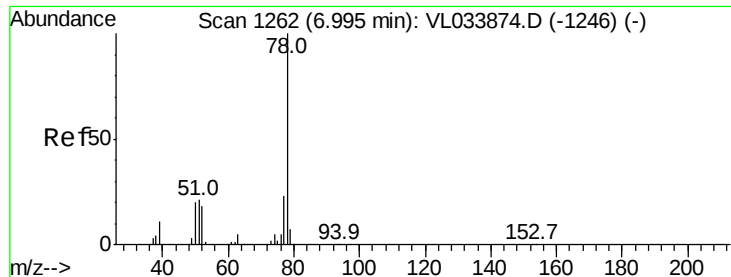


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





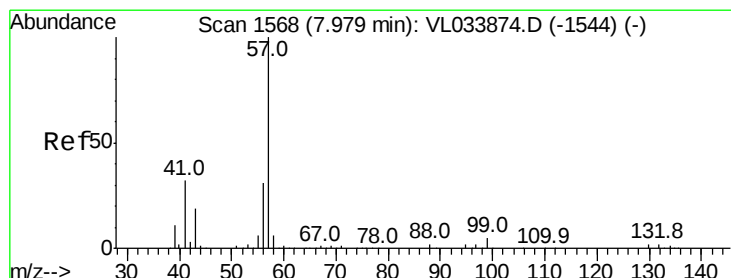
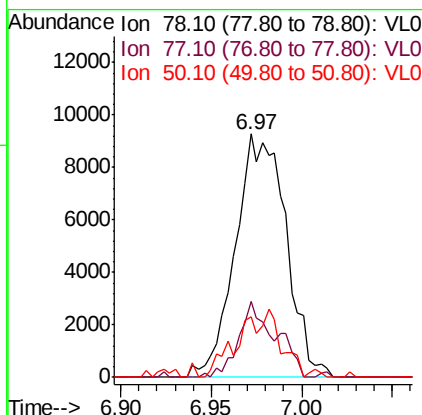
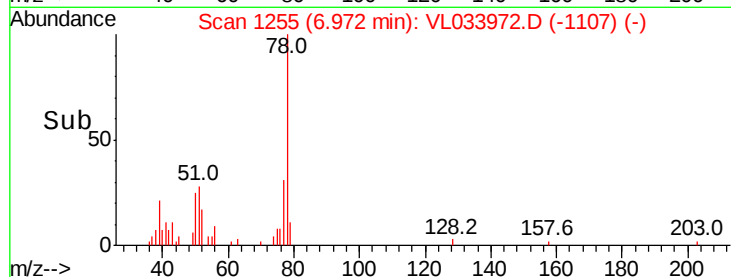
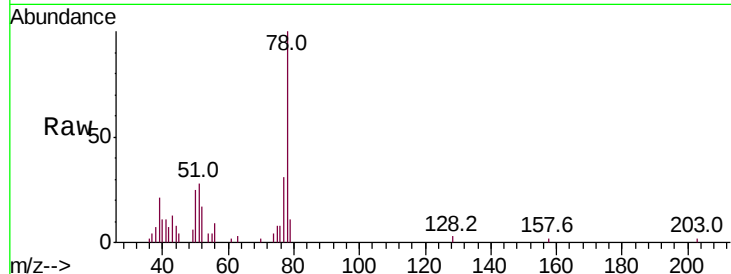
#36
Benzene
Concen: 0.151 ppbv m
RT: 6.97 min Scan# 1255
Delta R.T. -0.02 min
Lab File: VL033972.D
Acq: 26 Jun 2019 18:02

Instrument :
MSVOA_L
ClientSampleId :
OUTDOOR-AIR

Tot Ion	Ratio	Lower	Upper
78	100		
77	31.2	18.2	27.2#
50	24.7	15.9	23.9#

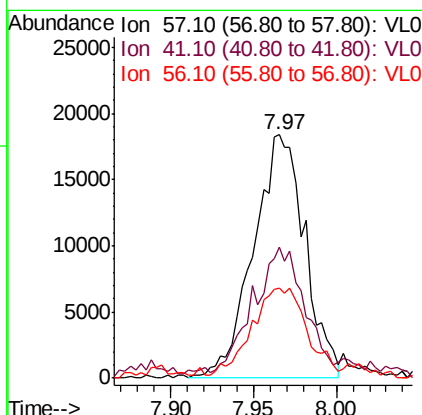
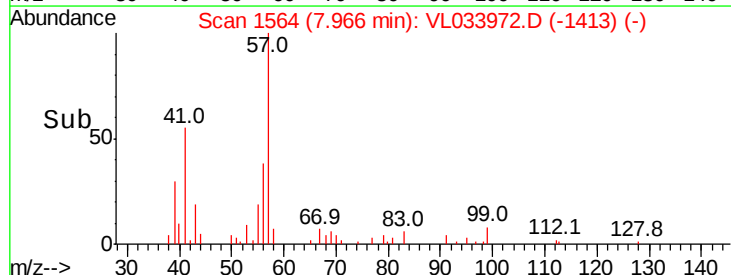
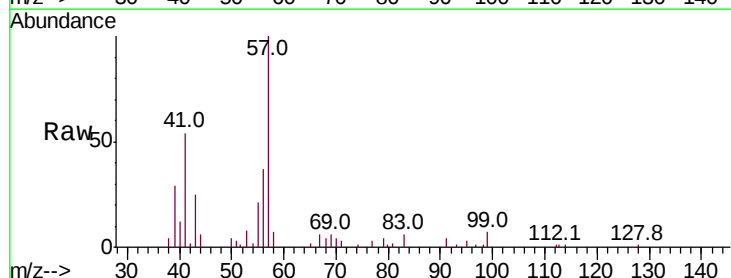
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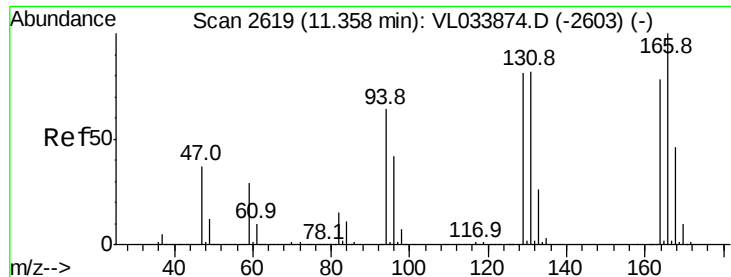
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#44
2,2,4-Trimethylpentane
Concen: 0.188 ppbv
RT: 7.97 min Scan# 1564
Delta R.T. -0.01 min
Lab File: VL033972.D
Acq: 26 Jun 2019 18:02

Tgt Ion	Ratio	Lower	Upper
57	100		
41	62.9	26.1	39.1#
56	44.3	24.6	36.8#





#52

Tetrachloroethene

Concen: 0.042 ppbv m

RT: 11.34 min Scan# 2614

Delta R.T. -0.02 min

Lab File: VL033972.D

Acq: 26 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AIR

Tot Ion:164 Resp: 1774

Ion Ratio Lower Upper

164 100

166 41.2 103.1 154.7#

129 102.7 83.9 125.9

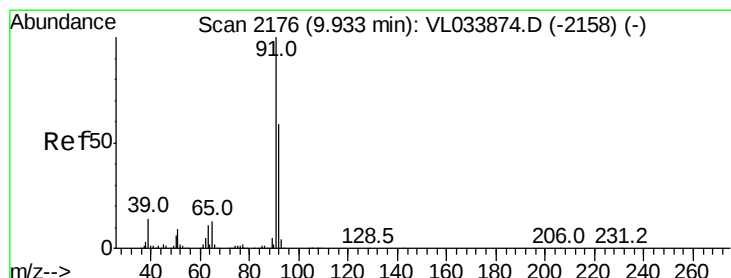
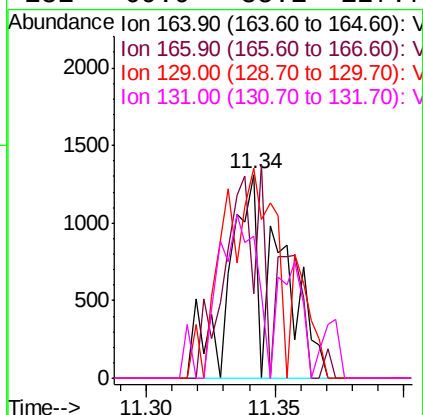
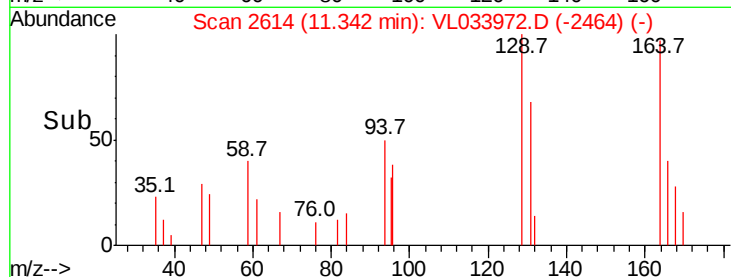
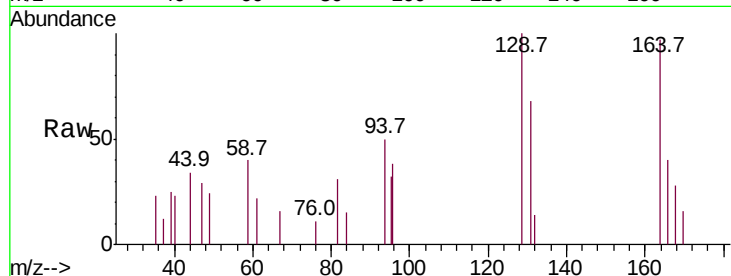
131 69.9 85.1 127.7#

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#53

Toluene

Concen: 2.456 ppbv

RT: 9.92 min Scan# 2171

Delta R.T. -0.02 min

Lab File: VL033972.D

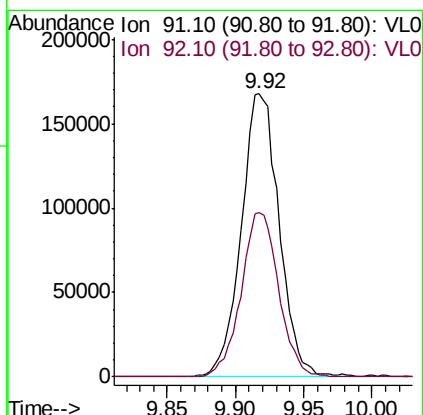
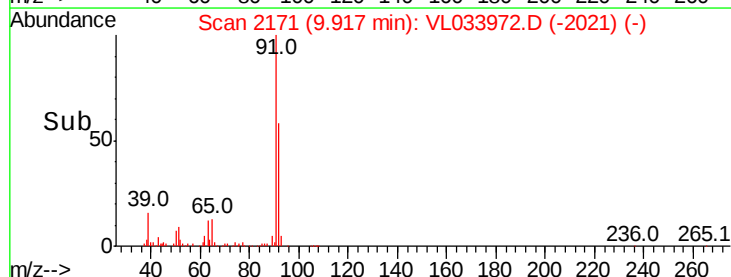
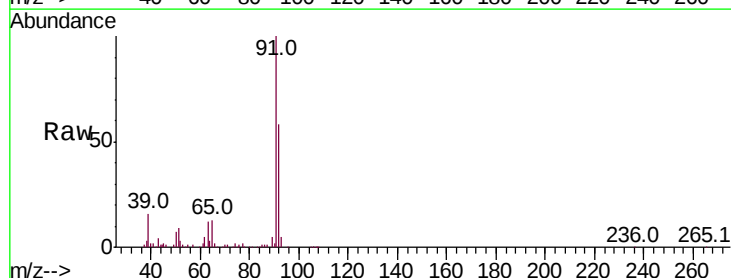
Acq: 26 Jun 2019 18:02

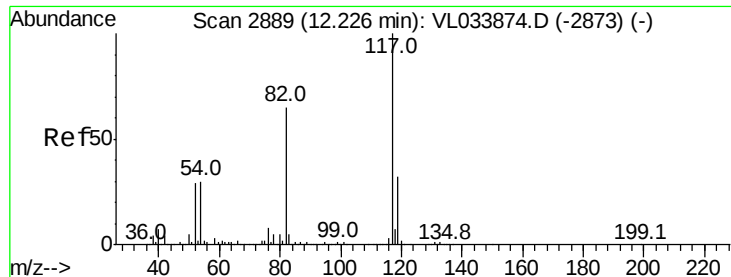
Tgt Ion: 91 Resp: 323253

Ion Ratio Lower Upper

91 100

92 57.9 47.0 70.6





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.21 min Scan# 2884

Delta R.T. -0.02 min

Lab File: VL033972.D

Acq: 26 Jun 2019 18:02

Instrument :

MSVOA_L

ClientSampleId :

OUTDOOR-AIR

Tot Ion:117 Resp: 1526963

Ion Ratio Lower Upper

117 100

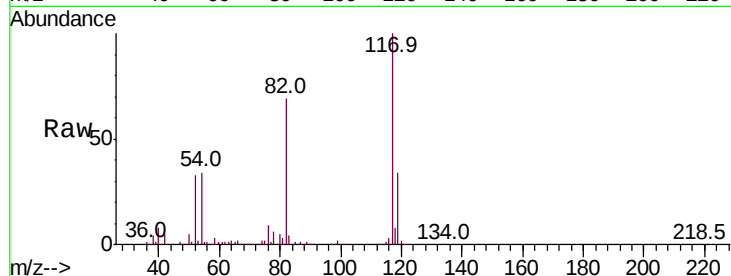
82 69.6 50.2 75.2

119 33.3 24.8 37.2

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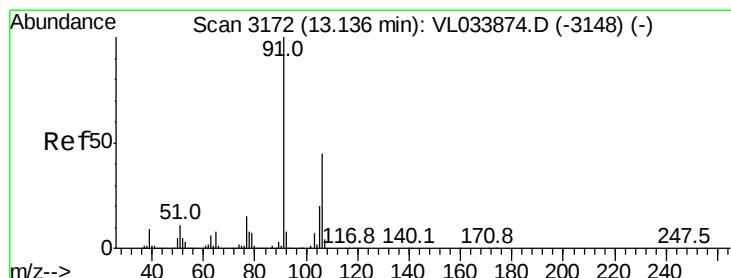
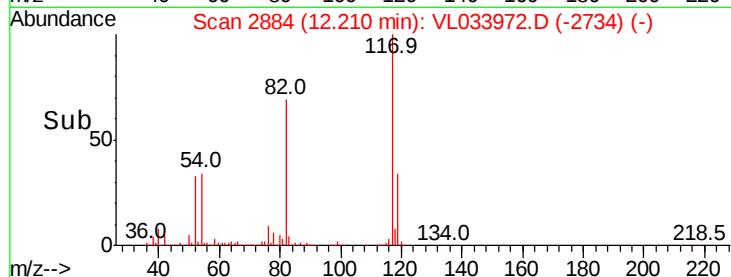
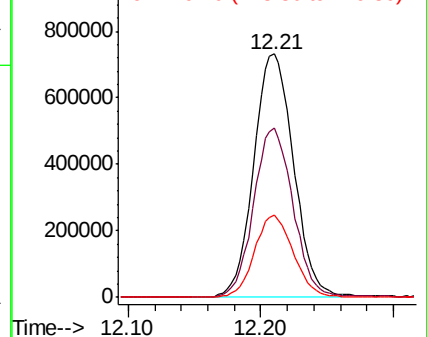
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#59

m/p-Xylene

Concen: 0.109 ppbv m

RT: 13.10 min Scan# 3160

Delta R.T. -0.04 min

Lab File: VL033972.D

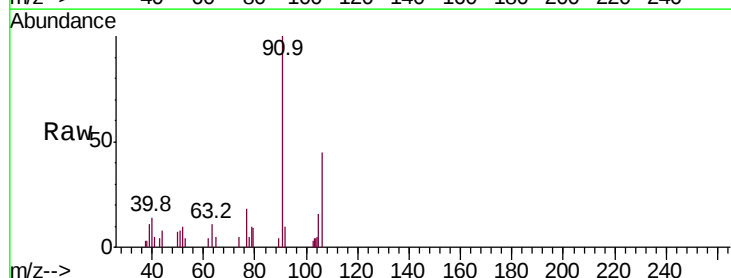
Acq: 26 Jun 2019 18:02

Tgt Ion: 91 Resp: 17119

Ion Ratio Lower Upper

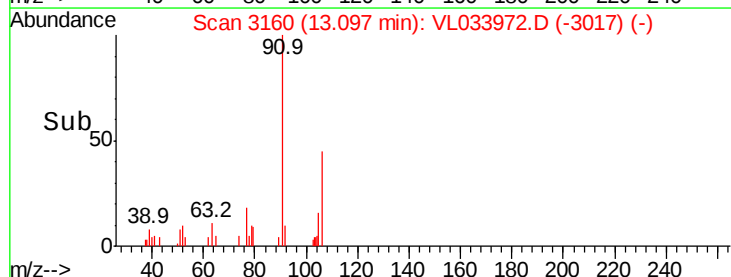
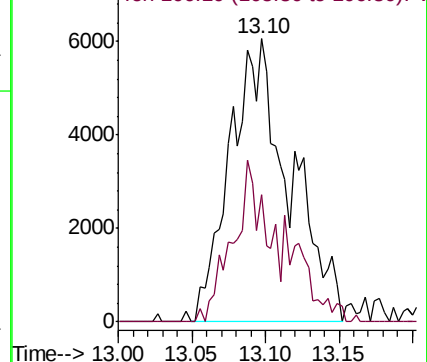
91 100

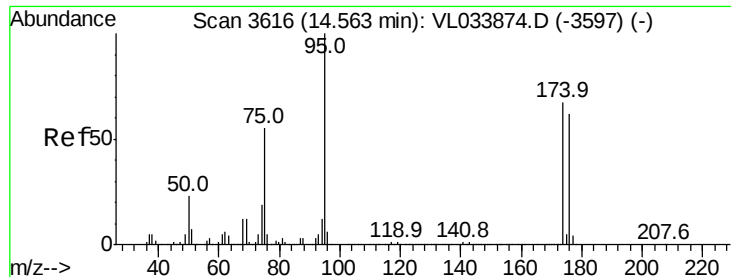
106 0.0 35.8 53.8#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





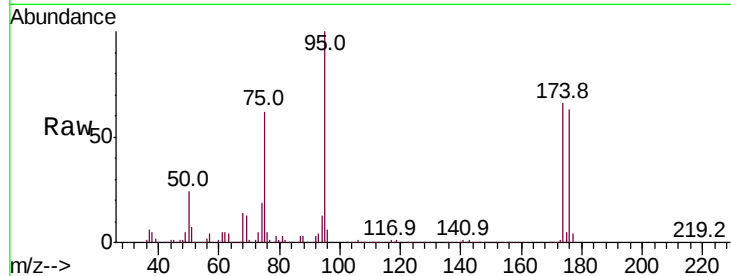
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.350 ppbv
 RT: 14.55 min Scan# 3611
 Delta R.T. -0.02 min
 Lab File: VL033972.D
 Acq: 26 Jun 2019 18:02

Instrument :
 MSVOA_L
 ClientSampleId :
 OUTDOOR-AIR

Tot Ion	Ion	Ratio	Lower	Upper
95	100			
174	67.0	54.0	81.0	
175	4.6	3.8	5.8	

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Abundance Ion 95.10 (94.80 to 95.80): VL0
 800000 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V

