

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040419\
 Data File : VL033542.D
 Acq On : 4 Apr 2019 20:58
 Operator : SY/AP
 Sample : K2096-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-4

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 3:22:22 AM

Quant Time: Apr 05 03:19:24 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	877123	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1673284	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2158170	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1682321	9.94	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.40%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	112862	0.882	ppbv	93
3) Chlorodifluoromethane	3.01	51	48693m	0.482	ppbv	
4) Chloromethane	3.17	50	29085	0.544	ppbv	92
9) Propene	3.05	41	43327	1.022	ppbv #	76
10) Heptane	8.24	43	38280	0.338	ppbv	98
11) Trichlorofluoromethane	4.00	101	40849	0.259	ppbv	100
13) Ethanol	3.66	45	1906419	173.726	ppbv	64
15) Acetone	3.90	43	961062	9.113	ppbv	99
19) Isopropyl Alcohol	4.03	45	451064	6.762	ppbv #	96
20) Methylene Chloride	4.41	84	232665	5.197	ppbv	97
26) Hexane	5.78	57	434770	4.997	ppbv #	48
34) 2-Butanone	5.33	43	50893	0.506	ppbv	96
35) Carbon Tetrachloride	7.13	117	7390m	0.062	ppbv	
36) Benzene	7.00	78	20680m	0.147	ppbv	
53) Toluene	9.94	91	1402199	8.594	ppbv	100
58) Ethyl Benzene	12.86	91	18610m	0.065	ppbv	
59) m/p-Xylene	13.12	91	64475m	0.250	ppbv	
60) o-Xylene	13.84	91	25517m	0.103	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	34839	0.121	ppbv #	69

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

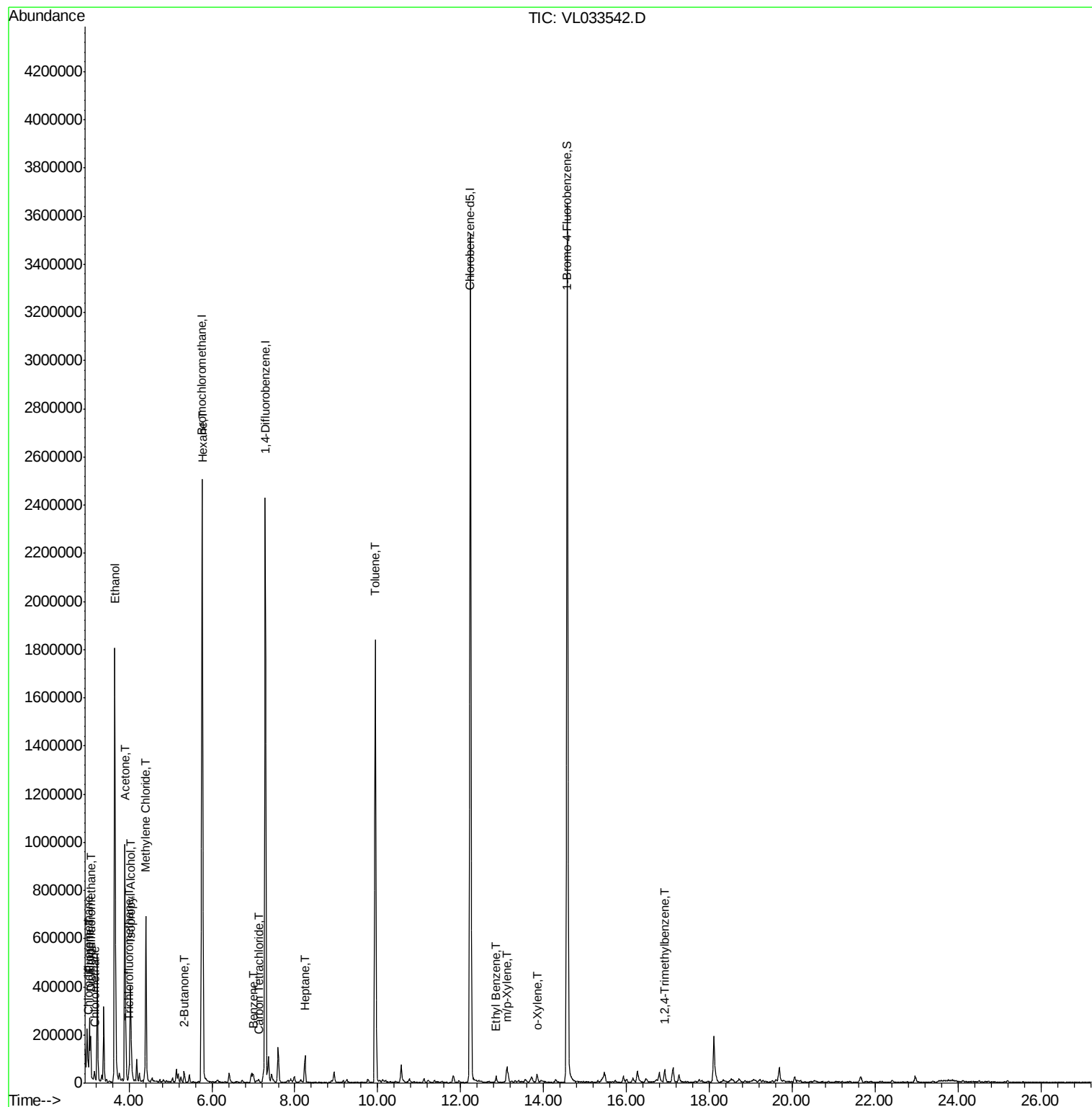
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040419\
Data File : VL033542.D
Acq On : 4 Apr 2019 20:58
Operator : SY/AP
Sample : K2096-04
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

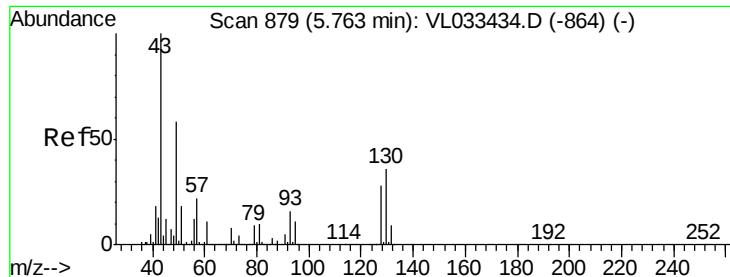
Instrument :
MSVOA_L
ClientSampleId :
A-4

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Quant Time: Apr 05 03:19:24 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033542.D

Acq: 4 Apr 2019 20:58

Instrument :

MSVOA_L

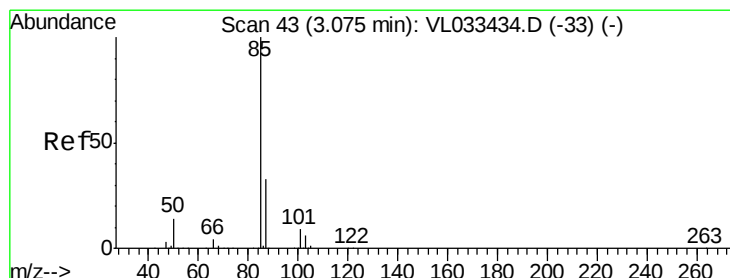
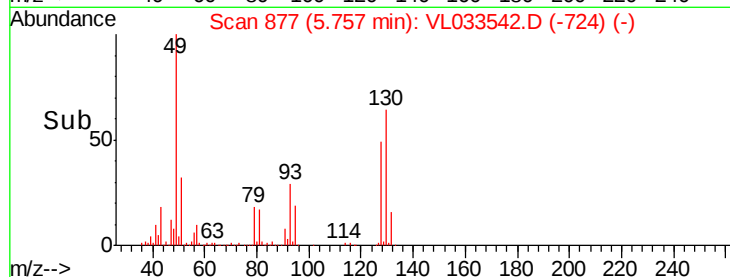
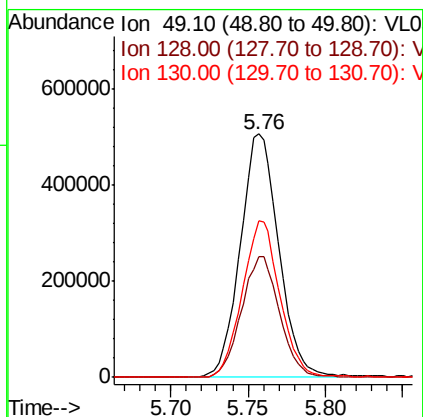
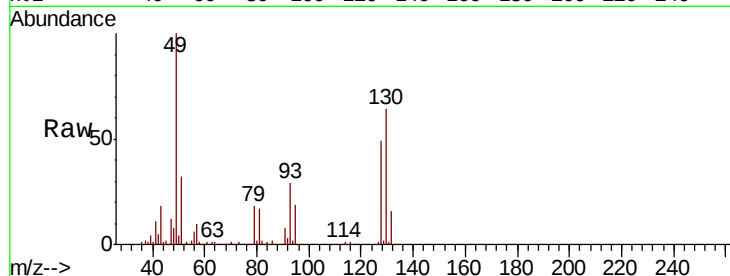
ClientSampled :

A-4

Tot Ion:	49	Resp:	877123
Ion	Ratio	Lower	Upper
49	100		
128	49.1	24.0	72.0
130	63.3	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.882 ppbv

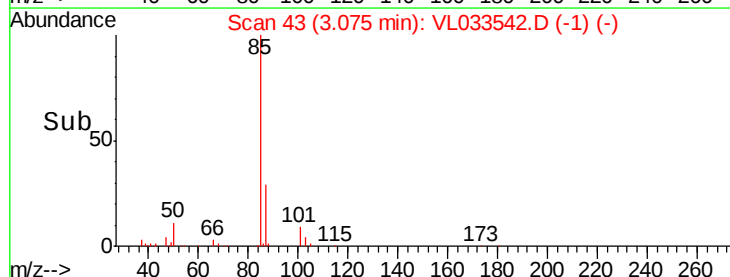
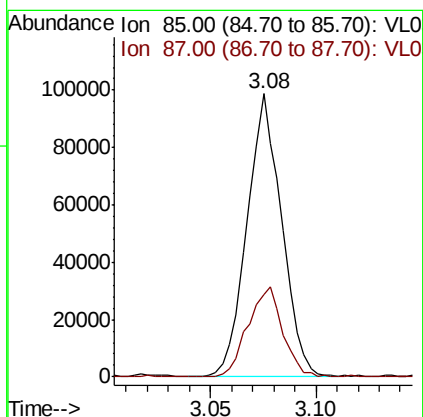
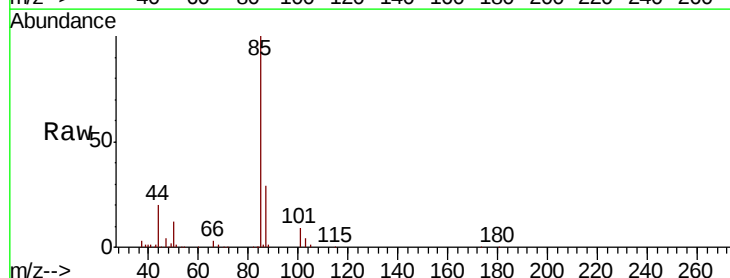
RT: 3.08 min Scan# 43

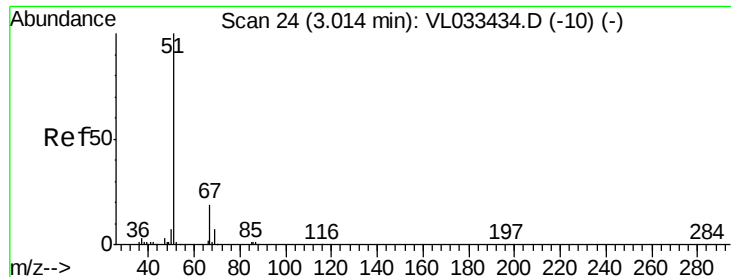
Delta R.T. -0.00 min

Lab File: VL033542.D

Acq: 4 Apr 2019 20:58

Tgt Ion:	85	Resp:	112862
Ion	Ratio	Lower	Upper
85	100		
87	29.2	26.7	40.1





#3

Chlorodifluoromethane

Concen: 0.482 ppbv

RT: 3.01 min Scan# 24

Delta R.T. -0.00 min

Lab File: VL033542.D

Acq: 4 Apr 2019 20:58

Instrument :

MSVOA_L

ClientSampleId :

A-4

Tot Ion: 51 Resp: 48693

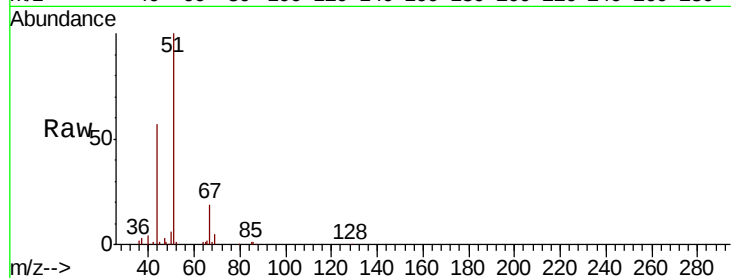
Ion Ratio Lower Upper

51 100

67 23.5 15.7 23.5

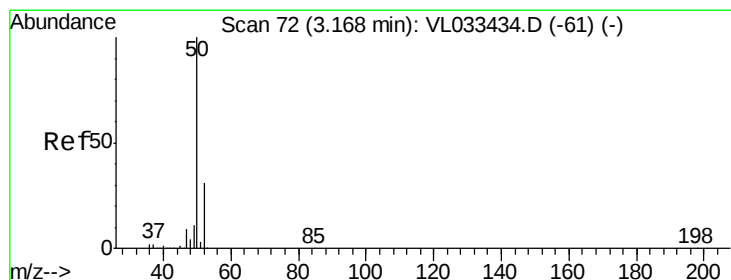
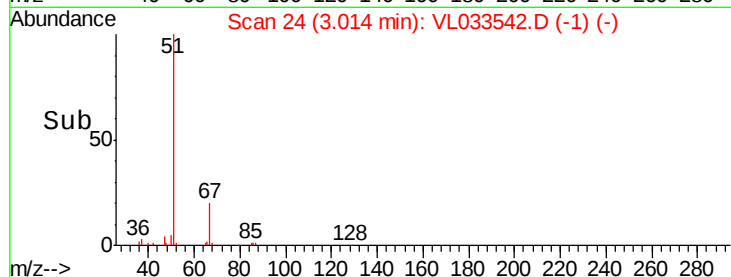
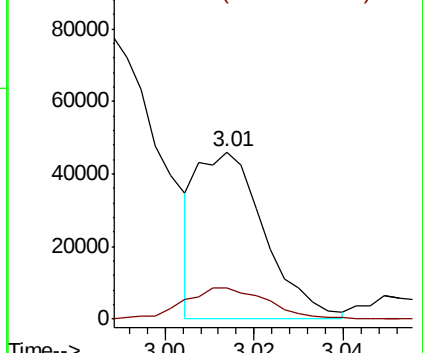
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.544 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033542.D

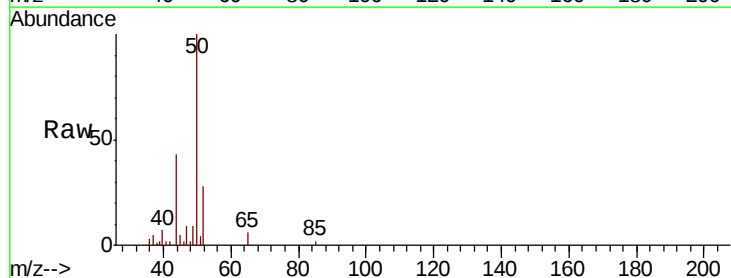
Acq: 4 Apr 2019 20:58

Tgt Ion: 50 Resp: 29085

Ion Ratio Lower Upper

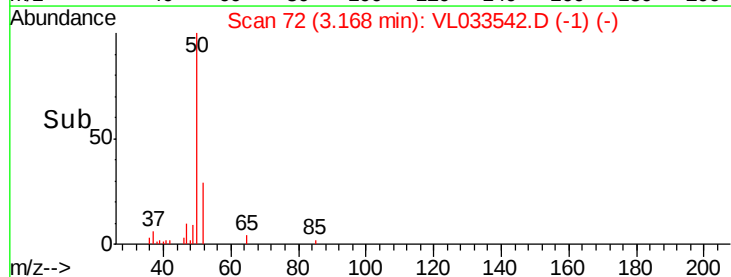
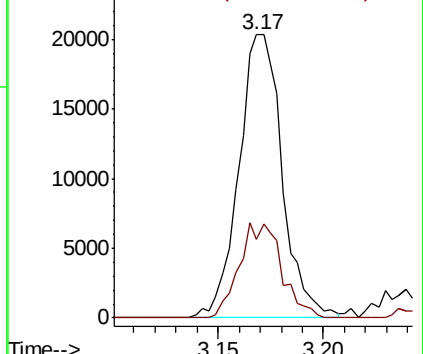
50 100

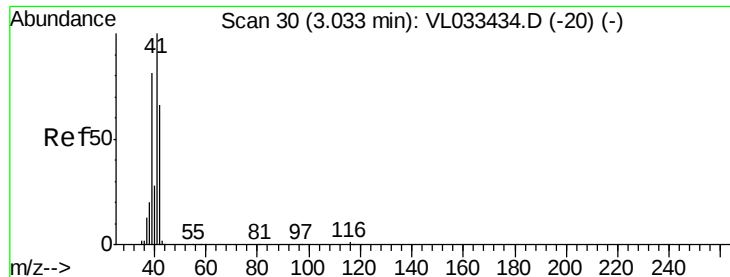
52 26.9 25.0 37.6



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.022 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033542.D

Acq: 4 Apr 2019 20:58

Instrument :

MSVOA_L

ClientSampleId :

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Tot Ion: 41 Resp: 43327

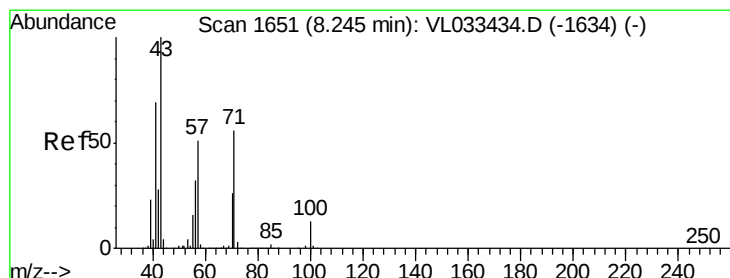
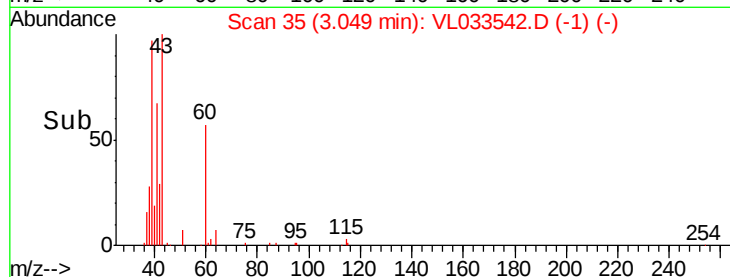
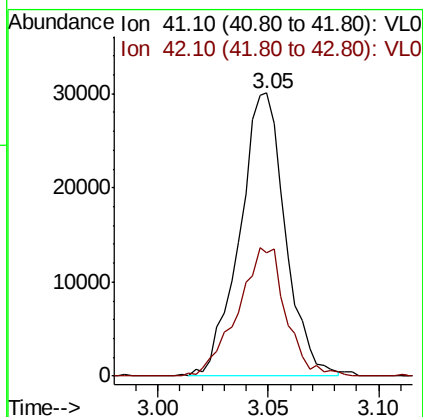
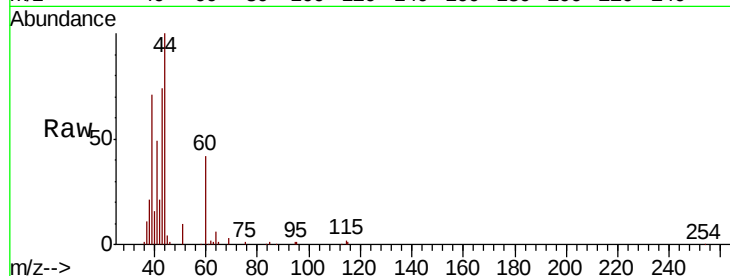
Ion Ratio Lower Upper

41 100

42 47.9 53.9 80.9#

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#10

Heptane

Concen: 0.338 ppbv

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033542.D

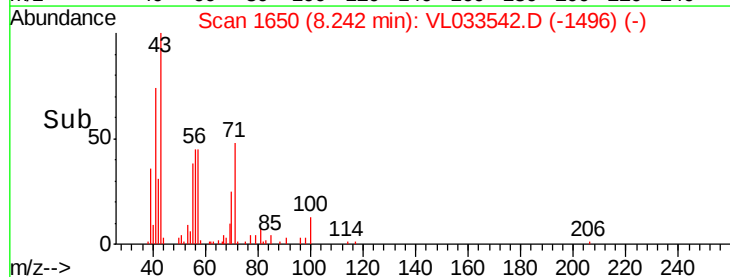
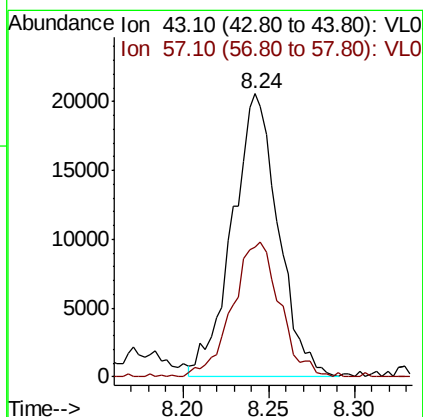
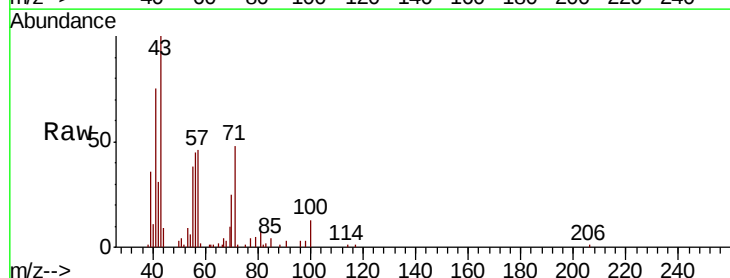
Acq: 4 Apr 2019 20:58

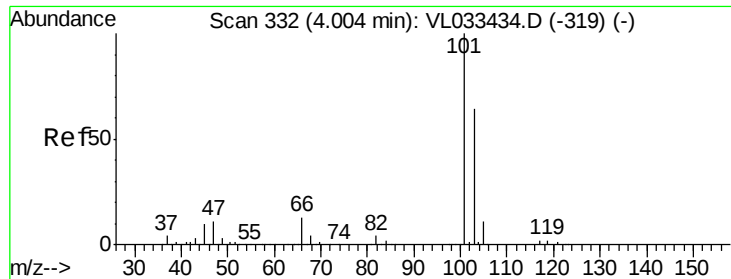
Tgt Ion: 43 Resp: 38280

Ion Ratio Lower Upper

43 100

57 49.1 40.6 60.8





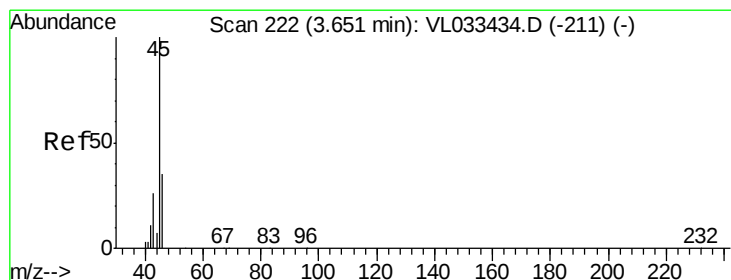
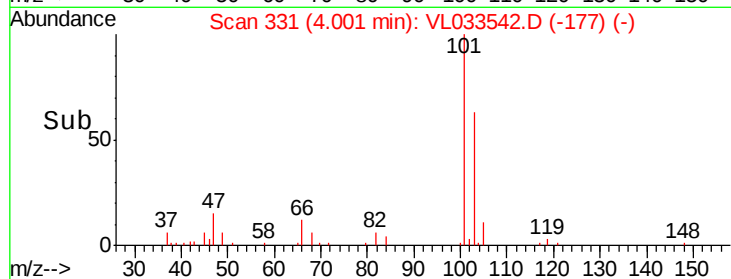
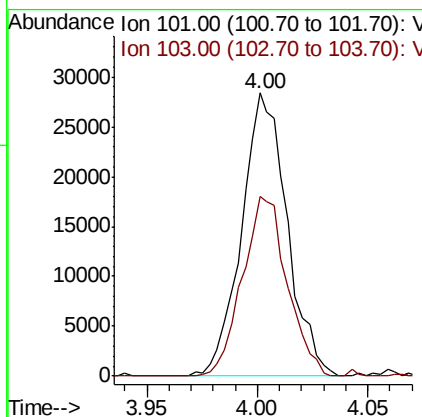
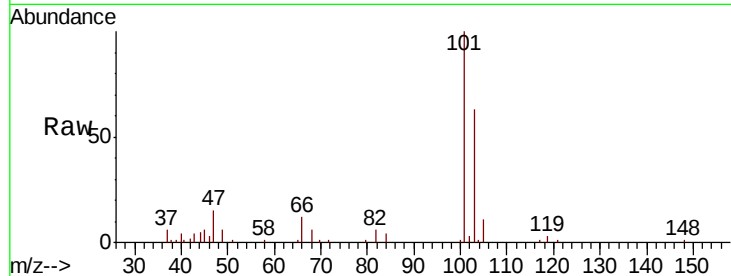
#11
 Trichlorofluoromethane
 Concen: 0.259 ppbv
 RT: 4.00 min Scan# 331
 Delta R.T. -0.00 min
 Lab File: VL033542.D
 Acq: 4 Apr 2019 20:58

Instrument :
 MSVOA_L
 ClientSampleId :
 A-4

Tot Ion:101 Resp: 40849
 Ion Ratio Lower Upper
 101 100
 103 64.1 51.3 76.9

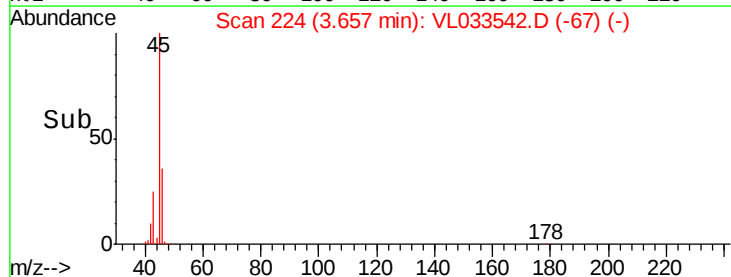
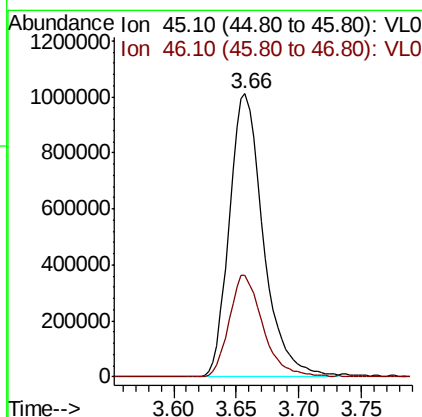
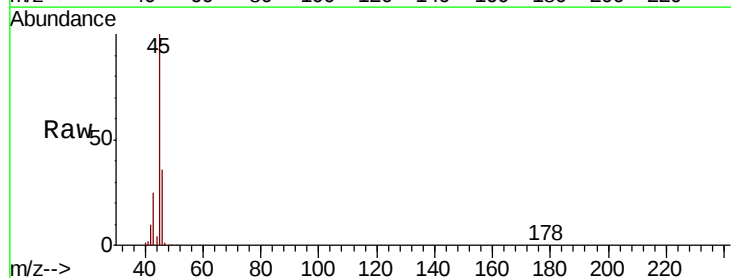
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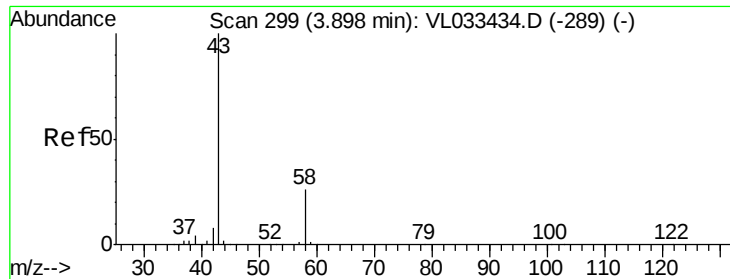
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#13
 Ethanol
 Concen: 173.726 ppbv
 RT: 3.66 min Scan# 224
 Delta R.T. 0.01 min
 Lab File: VL033542.D
 Acq: 4 Apr 2019 20:58

Tgt Ion: 45 Resp: 1906419
 Ion Ratio Lower Upper
 45 100
 46 35.9 25.4 101.8





#15

Acetone

Concen: 9.113 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033542.D

Acq: 4 Apr 2019 20:58

Instrument :

MSVOA_L

ClientSampled :

A-4

Tot Ion: 43 Resp: 961062

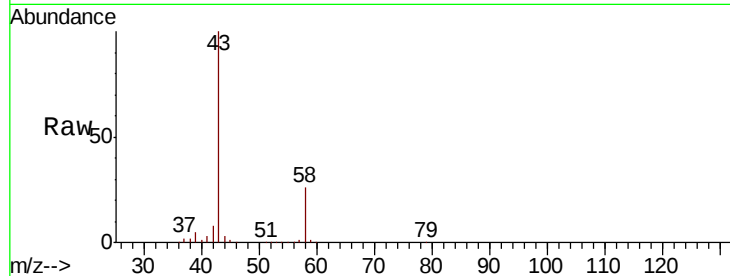
Ion Ratio Lower Upper

43 100

58 26.3 20.5 30.7

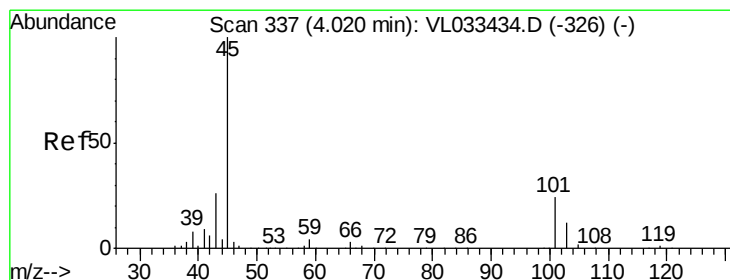
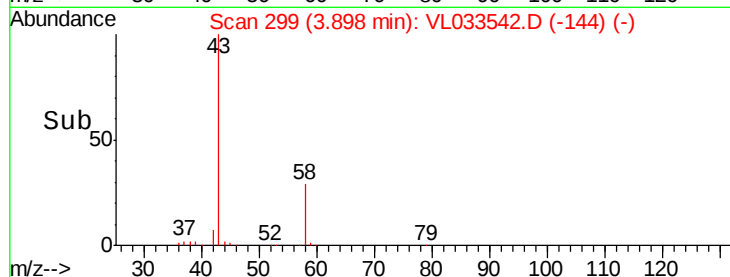
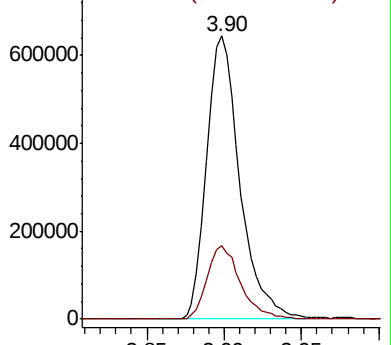
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 6.762 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033542.D

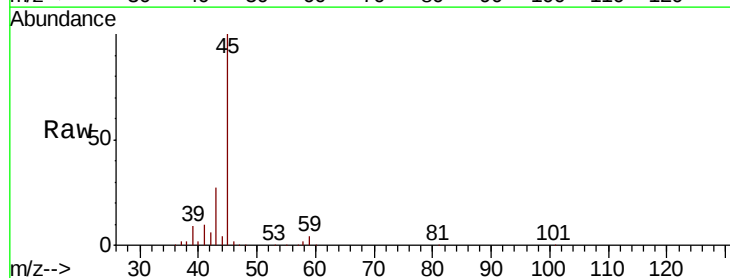
Acq: 4 Apr 2019 20:58

Tgt Ion: 45 Resp: 451064

Ion Ratio Lower Upper

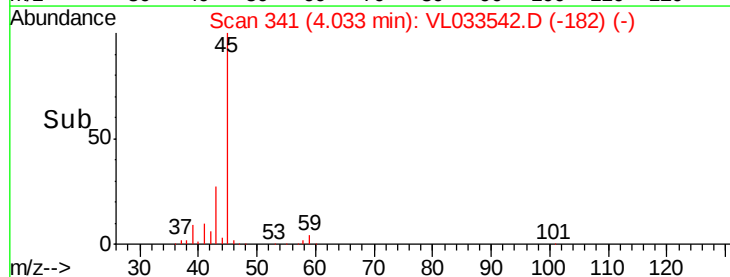
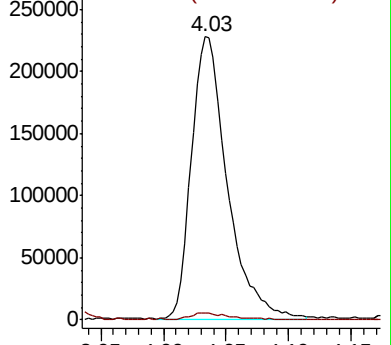
45 100

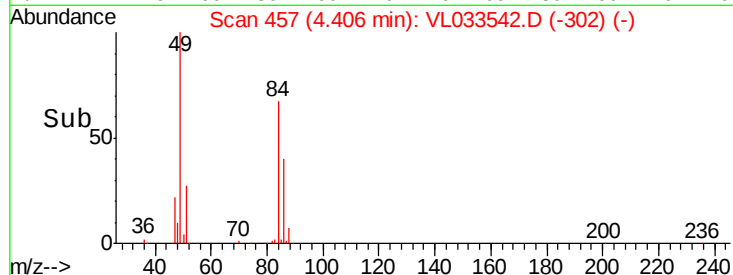
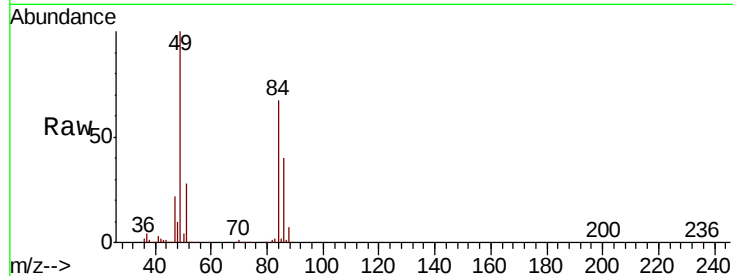
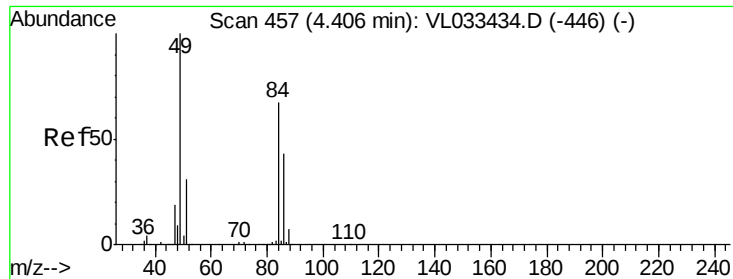
58 3.2 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





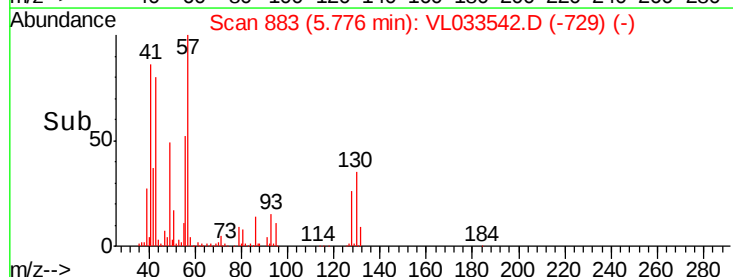
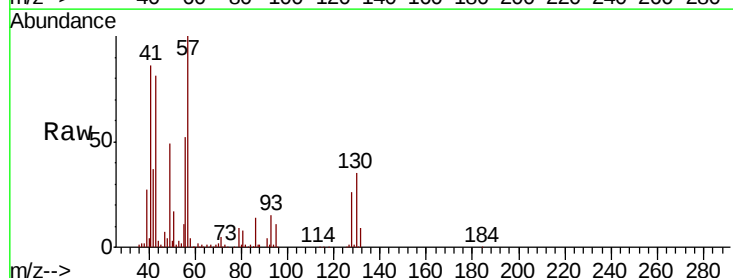
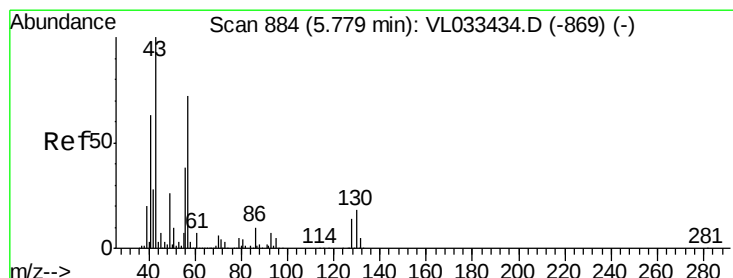
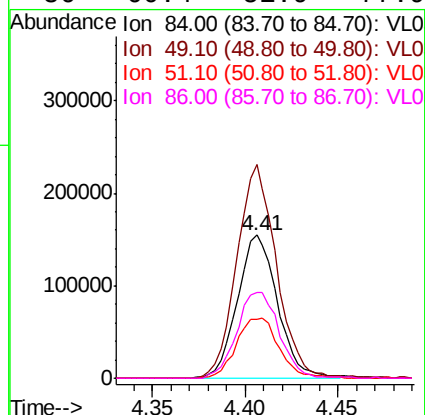
#20
Methvlene Chloride
Concen: 5.197 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033542.D
Acq: 4 Apr 2019 20:58

Tot Ion	84	Resp	232665
Ion	Ratio	Lower	Upper
84	100		
49	149.3	120.0	180.0
51	41.2	36.7	55.1
86	60.4	51.9	77.9

Instrument :
MSVOA_L
ClientSampled :
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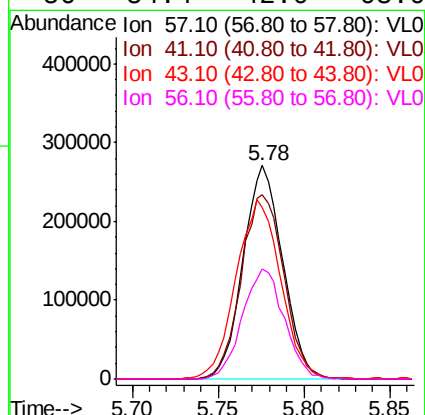
Manual Integrations
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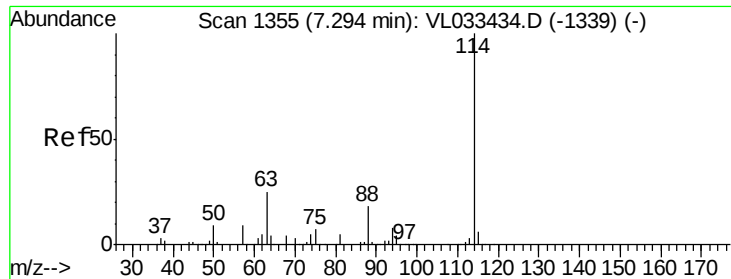
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#26
Hexane
Concen: 4.997 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033542.D
Acq: 4 Apr 2019 20:58

Tgt Ion	57	Resp	434770
Ion	Ratio	Lower	Upper
57	100		
41	93.0	70.7	106.1
43	94.6	182.6	274.0#
56	54.4	42.0	63.0





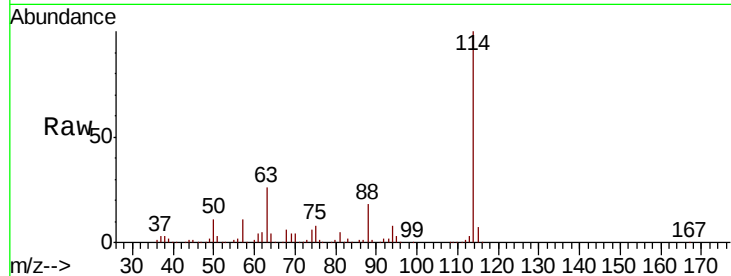
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033542.D
 Acq: 4 Apr 2019 20:58

Instrument :
 MSVOA_L
 ClientSampleId :
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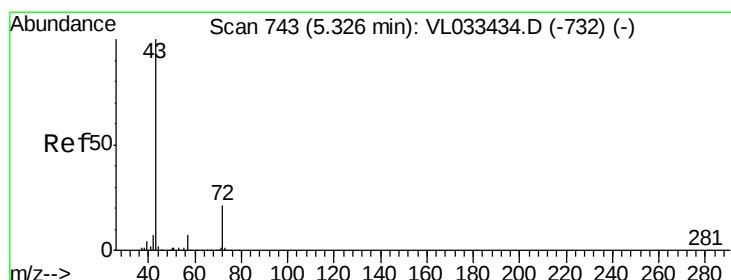
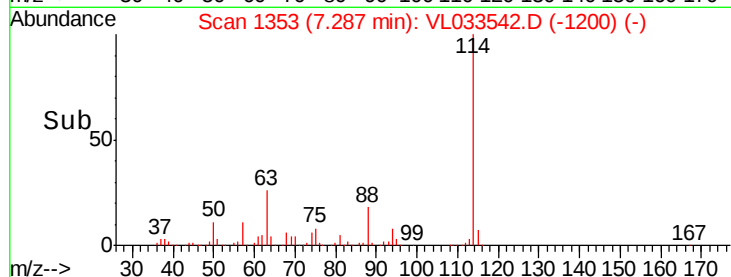
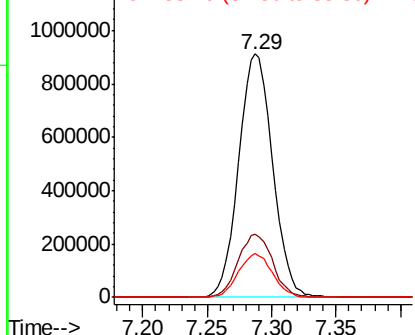
Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.5	32.3
88	18.0	14.5	21.7

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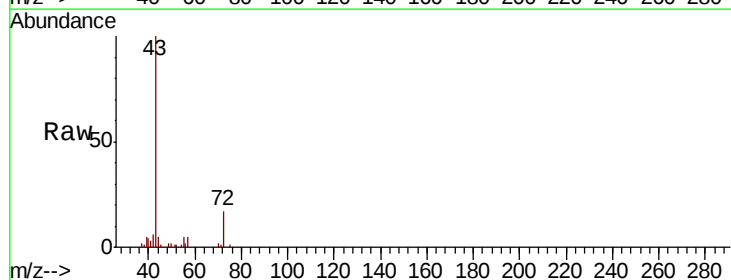


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

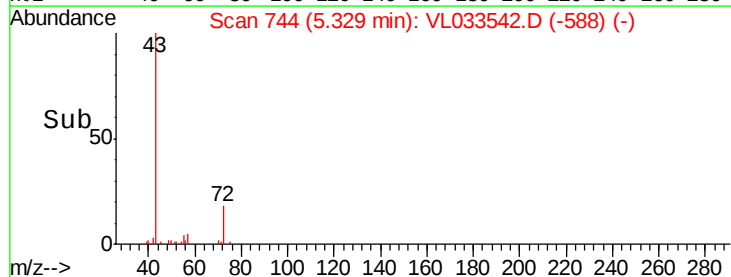
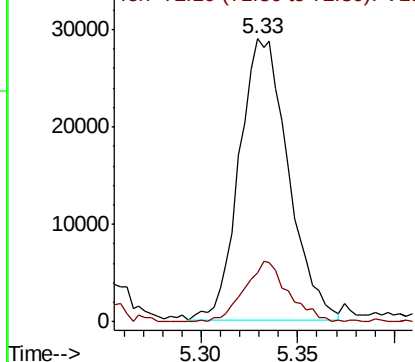


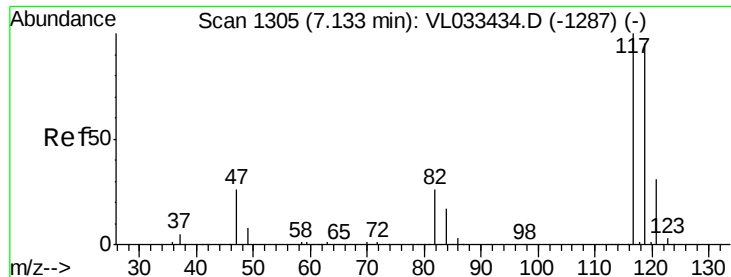
#34
 2-Butanone
 Concen: 0.506 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033542.D
 Acq: 4 Apr 2019 20:58

Tgt Ion	Ratio	Lower	Upper
43	100		
72	19.7	17.4	26.2



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





#35

Carbon Tetrachloride

Concen: 0.062 ppbv m

RT: 7.13 min Scan# 1303

Delta R.T. -0.01 min

Lab File: VL033542.D

Acq: 4 Apr 2019 20:58

Instrument :

MSVOA_L

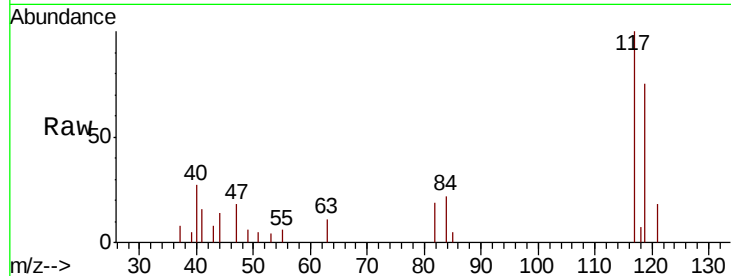
ClientSampled :

A-4

Tot Ion	Ratio	Lower	Upper
117	100		
119	75.4	75.8	113.8#
121	18.1	24.7	37.1#

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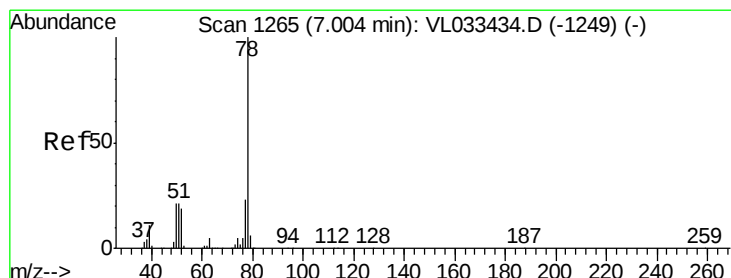
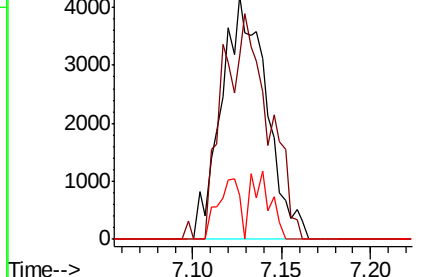
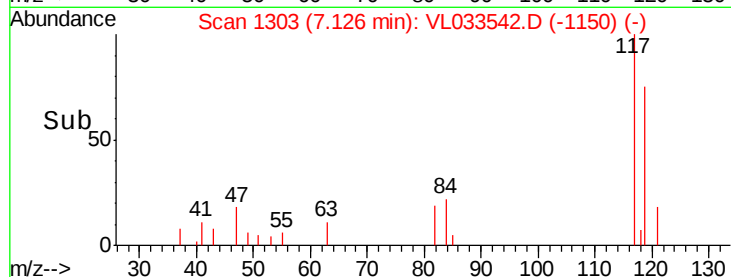
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Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V



#36

Benzene

Concen: 0.147 ppbv m

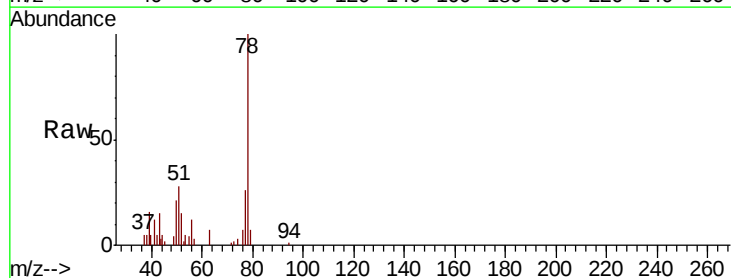
RT: 7.00 min Scan# 1264

Delta R.T. -0.00 min

Lab File: VL033542.D

Acq: 4 Apr 2019 20:58

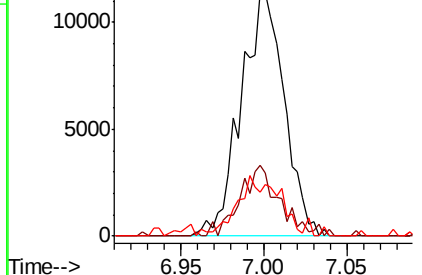
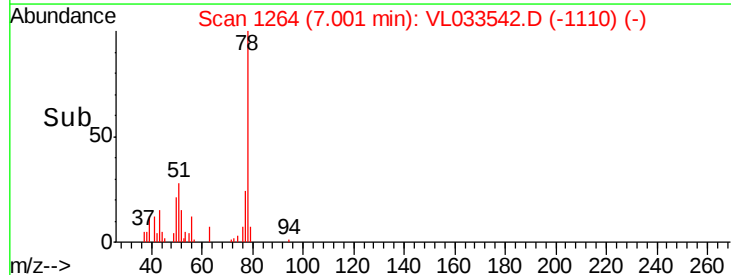
Tgt Ion	Ratio	Lower	Upper
78	100		
77	25.8	18.1	27.1
50	21.0	16.7	25.1

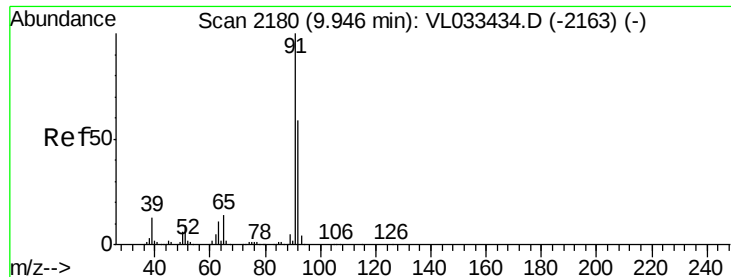


Abundance Ion 78.10 (77.80 to 78.80): VL0

Ion 77.10 (76.80 to 77.80): VL0

Ion 50.10 (49.80 to 50.80): VL0





#53

Toluene

Concen: 8.594 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.00 min

Lab File: VL033542.D

Acq: 4 Apr 2019 20:58

Instrument :

MSVOA_L

ClientSampleId :

A-4

Tot Ion: 91 Resp: 1402199

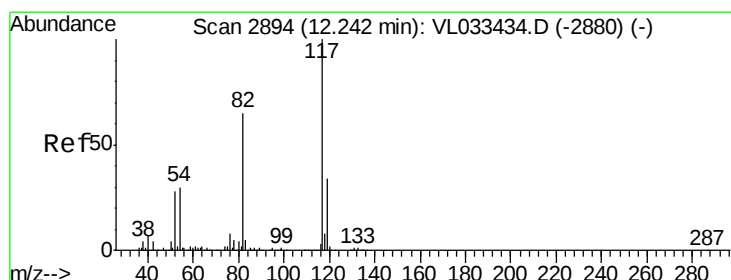
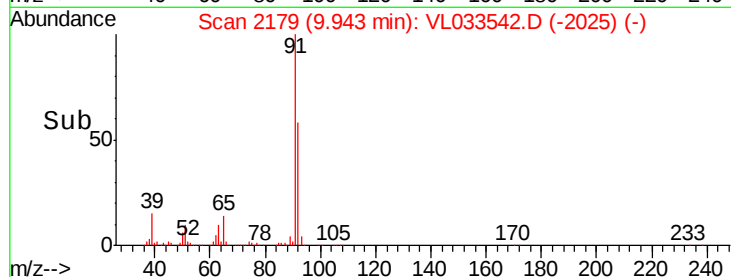
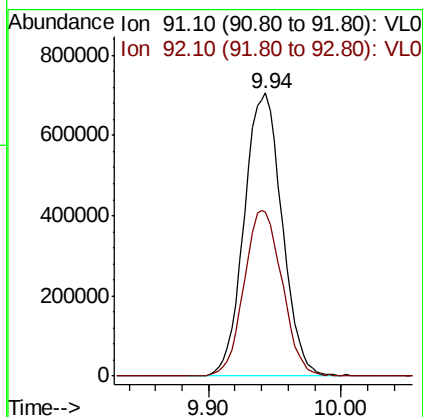
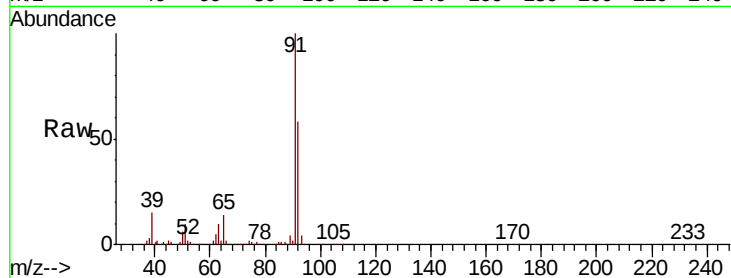
Ion Ratio Lower Upper

91 100

92 59.0 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033542.D

Acq: 4 Apr 2019 20:58

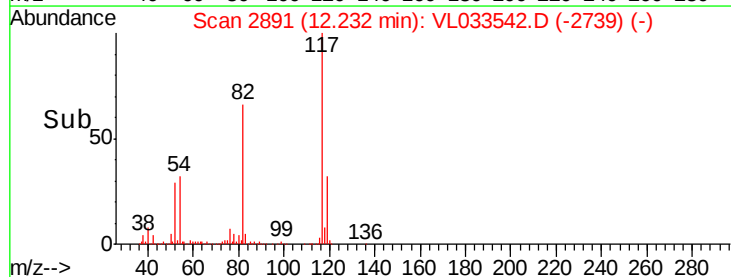
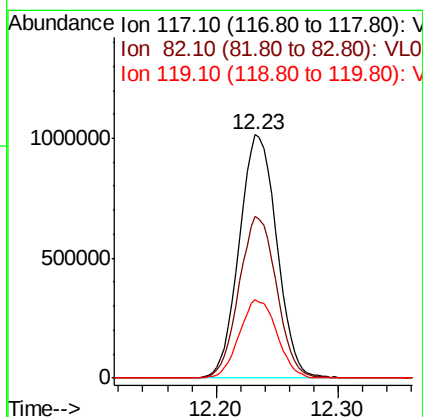
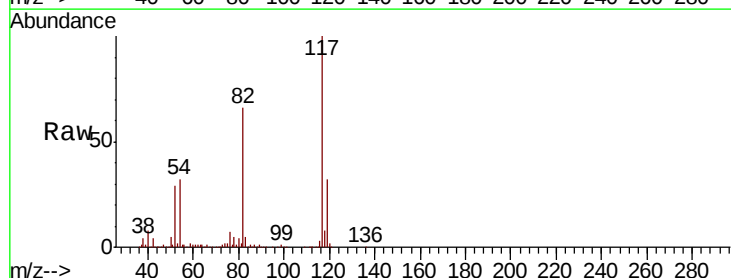
Tgt Ion: 117 Resp: 2158170

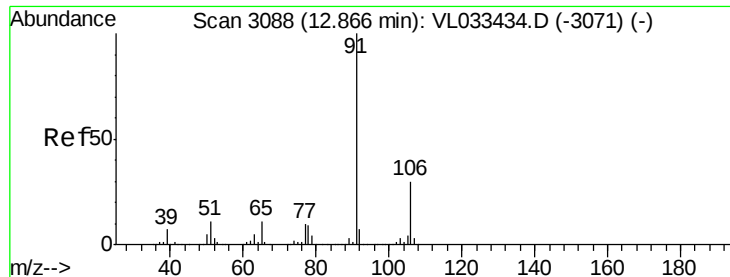
Ion Ratio Lower Upper

117 100

82 66.8 51.5 77.3

119 32.4 25.5 38.3





#58

Ethyl Benzene

Concen: 0.065 ppbv m

RT: 12.86 min Scan# 3085

Delta R.T. -0.01 min

Lab File: VL033542.D

Acq: 4 Apr 2019 20:58

Instrument :

MSVOA_L

ClientSampled :

A-4

Tot Ion: 91 Resp: 18610

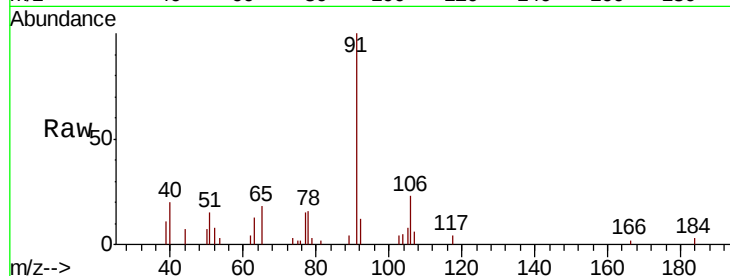
Ion Ratio Lower Upper

91 100

106 22.8 23.8 35.6#

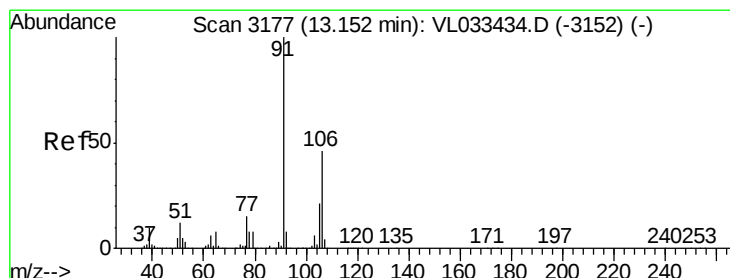
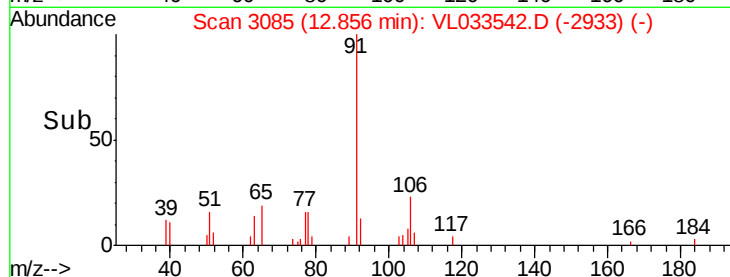
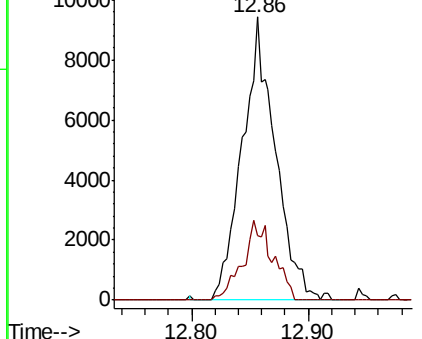
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#59

m/p-Xylene

Concen: 0.250 ppbv m

RT: 13.12 min Scan# 3166

Delta R.T. -0.04 min

Lab File: VL033542.D

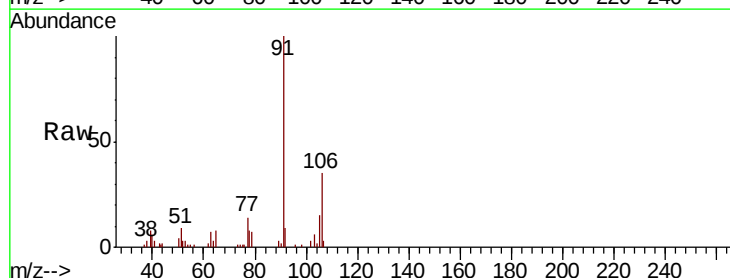
Acq: 4 Apr 2019 20:58

Tgt Ion: 91 Resp: 64475

Ion Ratio Lower Upper

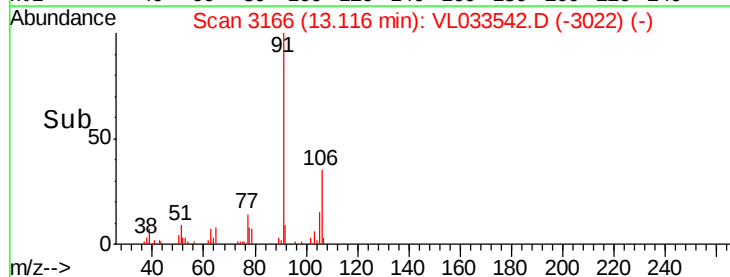
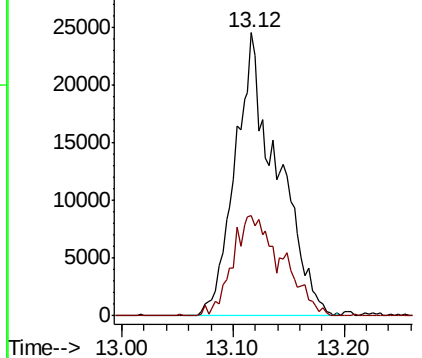
91 100

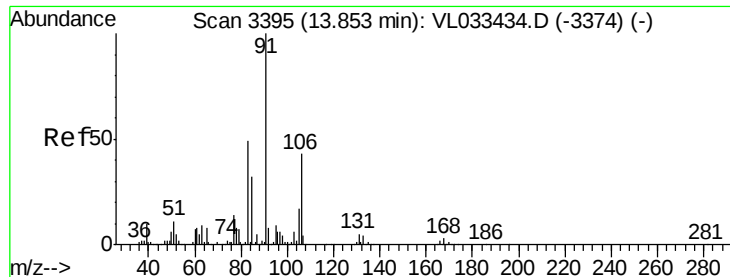
106 0.0 0.0 0.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





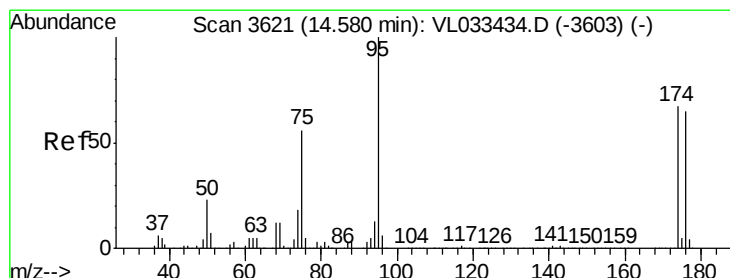
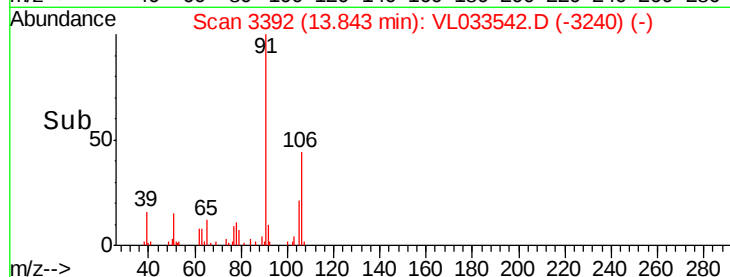
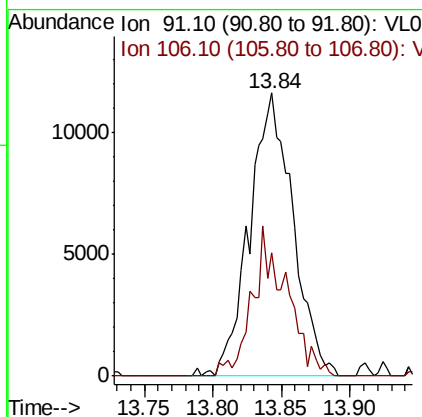
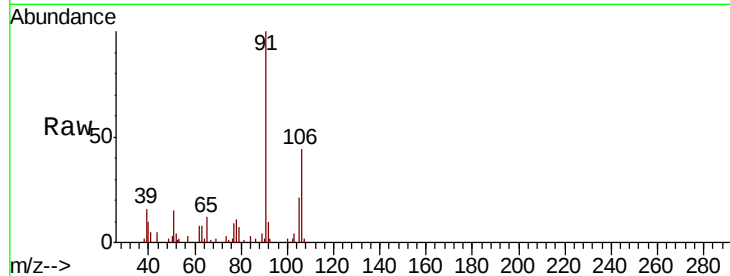
#60
o-Xylene
Concen: 0.103 ppbv m
RT: 13.84 min Scan# 3392
Delta R.T. -0.01 min
Lab File: VL033542.D
Acq: 4 Apr 2019 20:58

Instrument :
MSVOA_L
ClientSampleId :
A-4

Tot Ion: 91 Resp: 25517
Ion Ratio Lower Upper
91 100
106 41.7 21.4 64.3

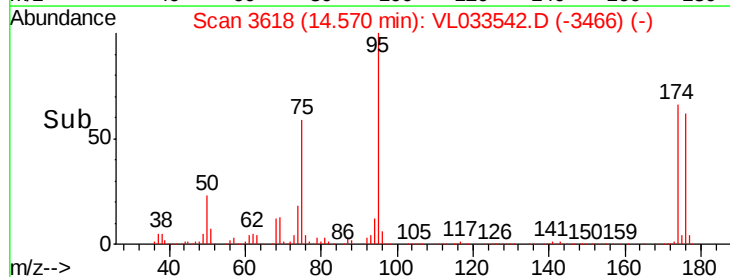
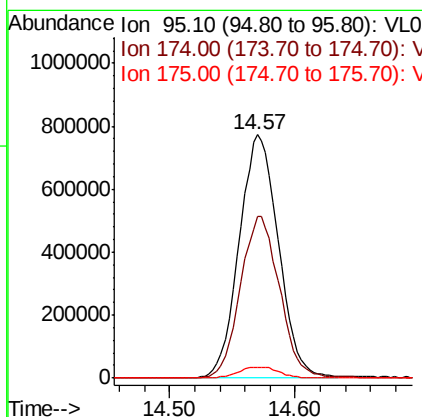
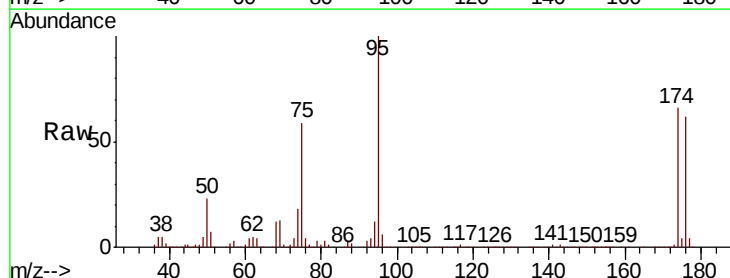
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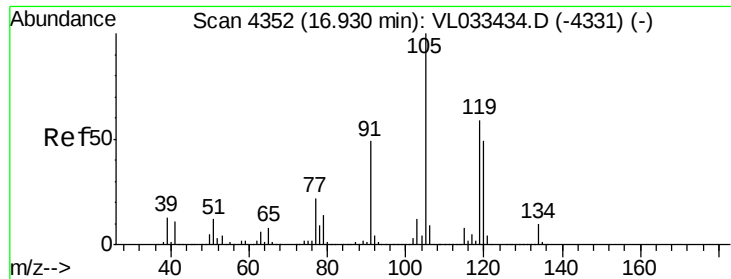
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.943 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.01 min
Lab File: VL033542.D
Acq: 4 Apr 2019 20:58

Tgt Ion: 95 Resp: 1682321
Ion Ratio Lower Upper
95 100
174 66.9 52.9 79.3
175 4.8 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.121 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.00 min
 Lab File: VL033542.D
 Acq: 4 Apr 2019 20:58

Instrument :
 MSVOA_L
 ClientSampleId :
 A-4

Tot Ion:	105	Resp:	34839
Ion Ratio	Lower	Upper	
105	100		
120	35.2	39.0	58.6#
91	17.6	40.0	60.0#
77	13.7	17.5	26.3#

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 3:22:22 AM

