

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040419\
 Data File : VL033536.D
 Acq On : 4 Apr 2019 17:04
 Operator : SY/AP
 Sample : K2096-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1DUP

Manual Integrations
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MMDadoda
 4/8/2019 3:22:15 AM

Quant Time: Apr 05 02:27:15 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	906032	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1797803	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2395751	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.57	95	1829119	9.74	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	118185	0.894	ppbv	94
3) Chlorodifluoromethane	3.01	51	53039m	0.508	ppbv	
4) Chloromethane	3.17	50	29528	0.535	ppbv	96
9) Propene	3.05	41	47106m	1.075	ppbv	
10) Heptane	8.25	43	79275	0.677	ppbv	96
11) Trichlorofluoromethane	4.00	101	39865	0.245	ppbv	94
13) Ethanol	3.65	45	1969418	173.740	ppbv	65
15) Acetone	3.90	43	1212369	11.129	ppbv	99
19) Isopropyl Alcohol	4.03	45	521382	7.567	ppbv #	97
20) Methylene Chloride	4.41	84	178476	3.859	ppbv	99
26) Hexane	5.78	57	487814	5.428	ppbv #	50
34) 2-Butanone	5.33	43	60592	0.561	ppbv	99
35) Carbon Tetrachloride	7.12	117	8446m	0.066	ppbv	
36) Benzene	7.00	78	34078m	0.226	ppbv	
53) Toluene	9.94	91	1481266	8.450	ppbv	100
58) Ethyl Benzene	12.85	91	31425m	0.098	ppbv	
59) m/p-Xylene	13.11	91	121815m	0.426	ppbv	
60) o-Xylene	13.85	91	45633m	0.165	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	66542m	0.209	ppbv	
79) Naphthalene	22.41	128	41526m	0.152	ppbv	

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

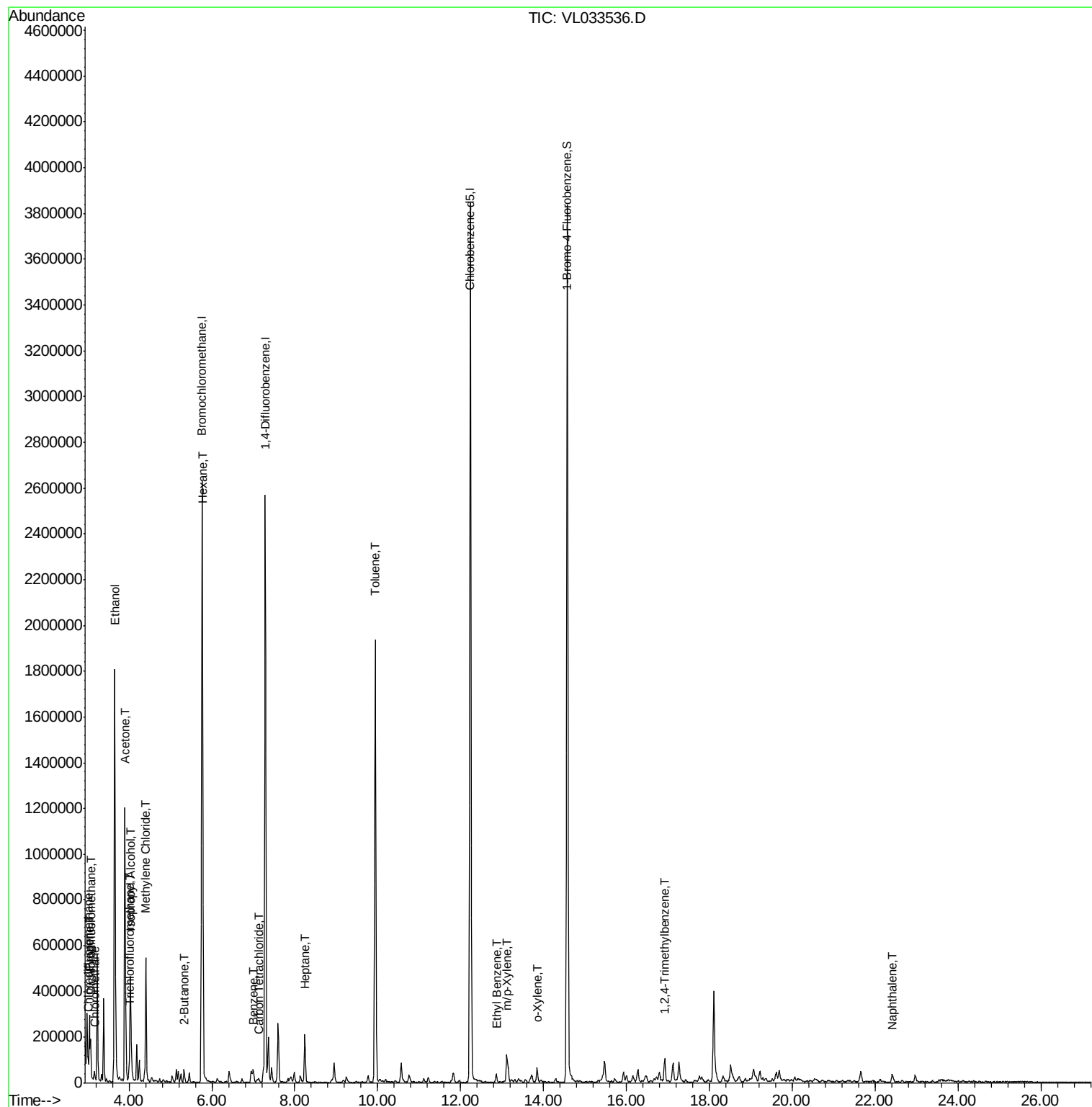
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040419\
Data File : VL033536.D
Acq On : 4 Apr 2019 17:04
Operator : SY/AP
Sample : K2096-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

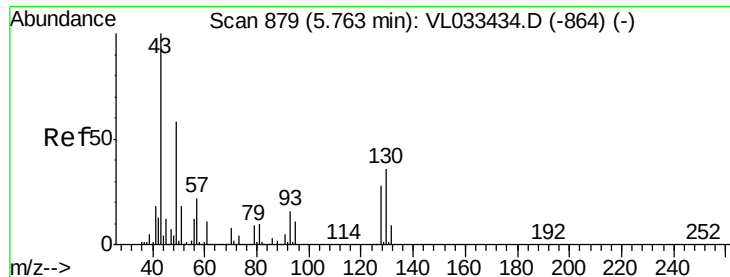
Instrument :
MSVOA_L
ClientSampleId :
A-1DUP

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Quant Time: Apr 05 02:27:15 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue 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: VL033536.D

Acq: 4 Apr 2019 17:04

Instrument :

MSVOA_L

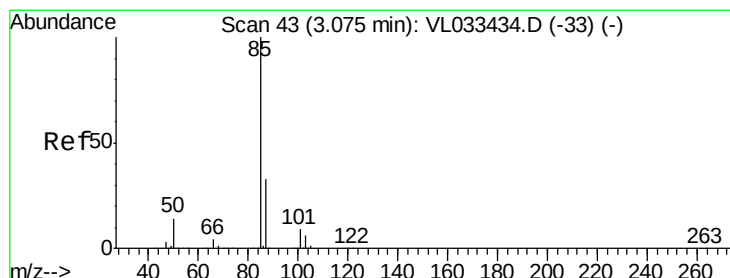
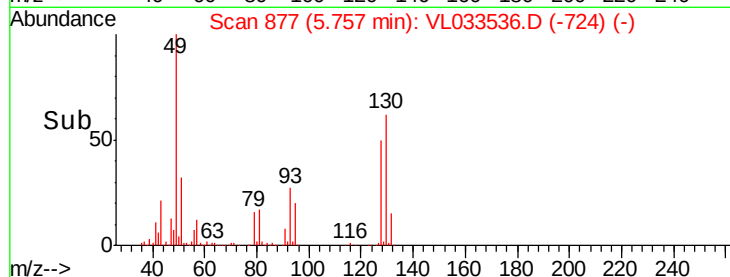
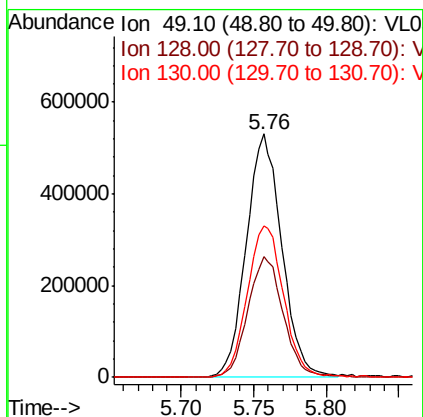
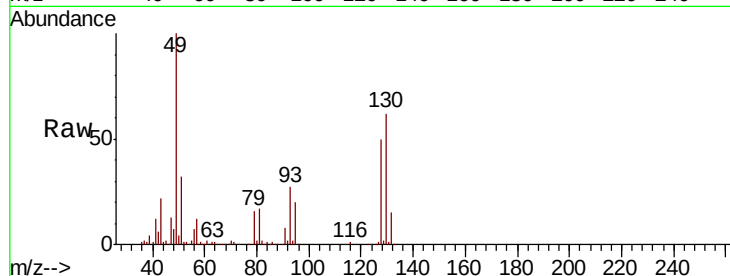
ClientSampleId :

A-1DUP

Tot Ion:	49	Resp:	906032
Ion	Ratio	Lower	Upper
49	100		
128	49.5	24.0	72.0
130	64.0	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.894 ppbv

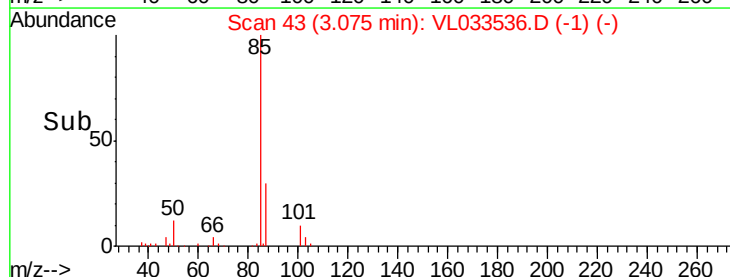
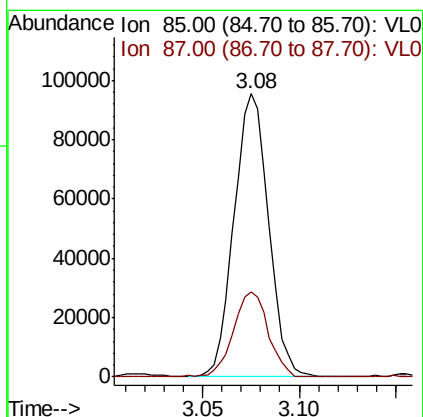
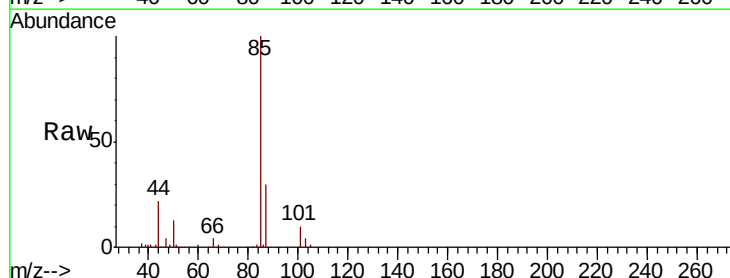
RT: 3.08 min Scan# 43

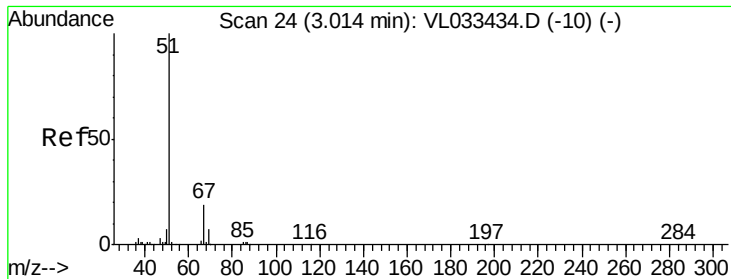
Delta R.T. -0.00 min

Lab File: VL033536.D

Acq: 4 Apr 2019 17:04

Tgt Ion:	85	Resp:	118185
Ion	Ratio	Lower	Upper
85	100		
87	30.0	26.7	40.1





#3

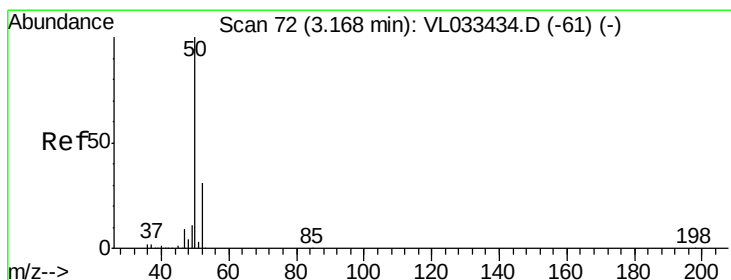
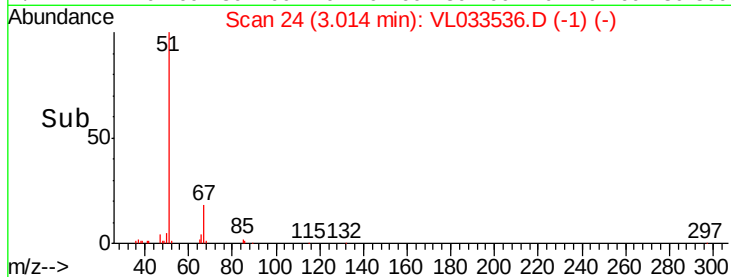
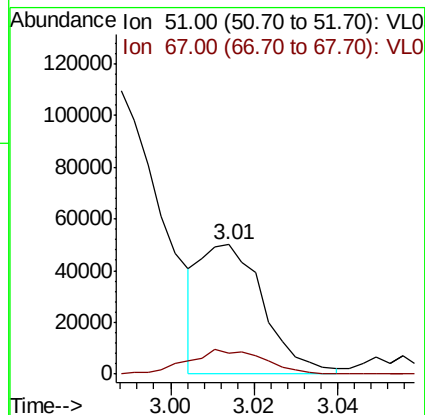
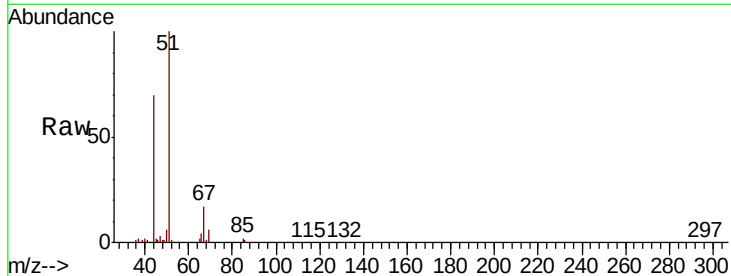
Chlorodifluoromethane
 Concen: 0.508 ppbv
 RT: 3.01 min Scan# 24
 Delta R.T. -0.00 min
 Lab File: VL033536.D
 Acq: 4 Apr 2019 17:04

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1DUP

Tot Ion	Ion	Ratio	Lower	Upper
51	51	100		
67	67	23.0	15.7	23.5

Manual Integrations
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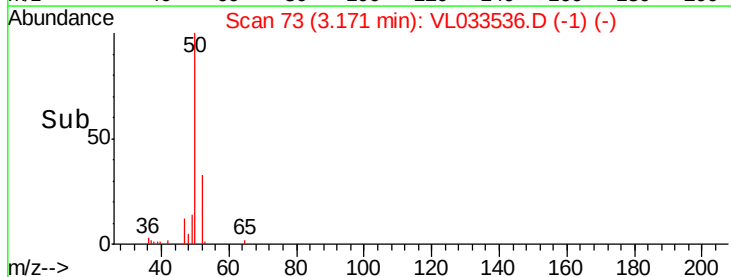
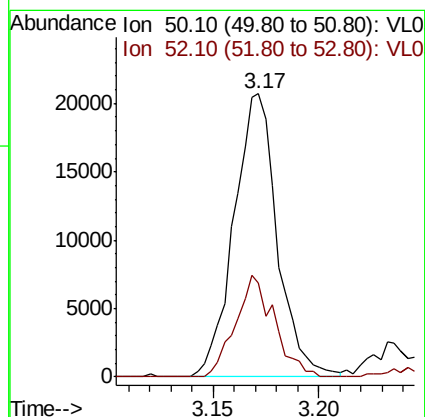
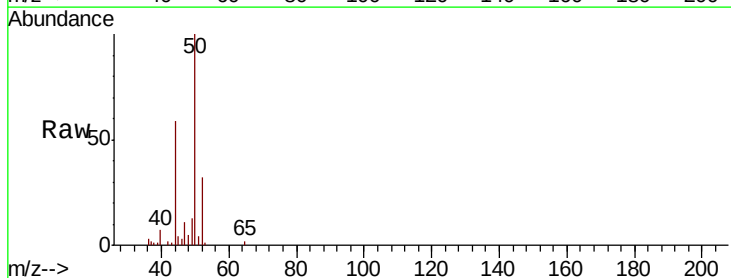
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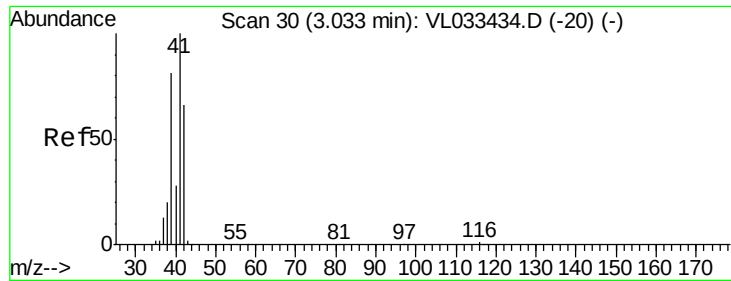


#4

Chloromethane
 Concen: 0.535 ppbv
 RT: 3.17 min Scan# 73
 Delta R.T. 0.00 min
 Lab File: VL033536.D
 Acq: 4 Apr 2019 17:04

Tgt Ion	Ion	Ratio	Lower	Upper
50	50	100		
52	52	33.4	25.0	37.6





#9

Propene

Concen: 1.075 ppbv m

RT: 3.05 min Scan# 34

Delta R.T. 0.01 min

Lab File: VL033536.D

Acq: 4 Apr 2019 17:04

Instrument :

MSVOA_L

ClientSampleId :

A-1DUP

Tot Ion: 41 Resp: 47106

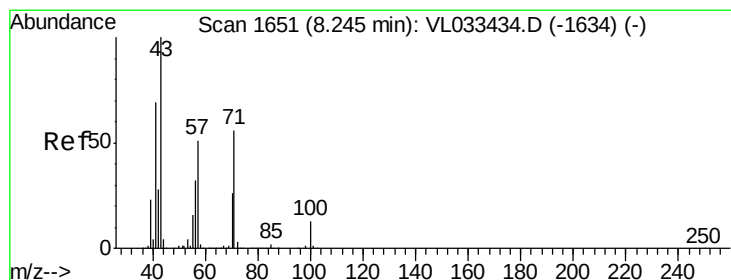
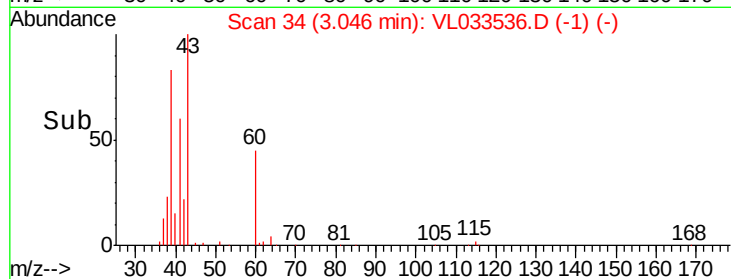
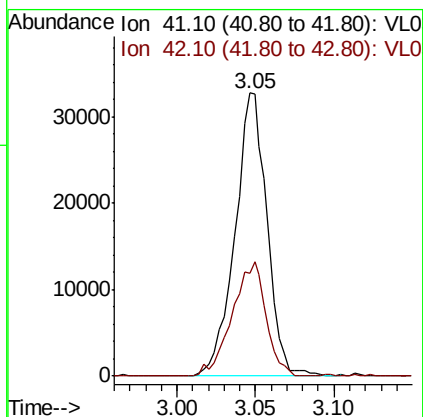
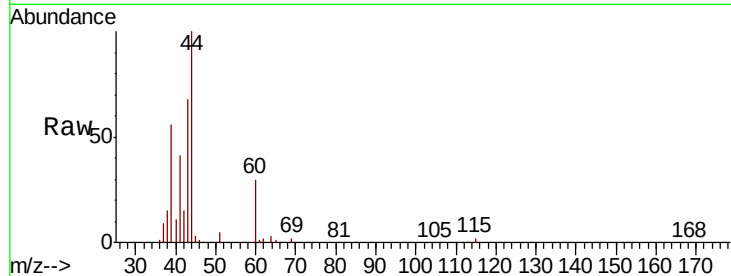
Ion Ratio Lower Upper

41 100

42 193.3 53.9 80.9#

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#10

Heptane

Concen: 0.677 ppbv

RT: 8.25 min Scan# 1651

Delta R.T. -0.00 min

Lab File: VL033536.D

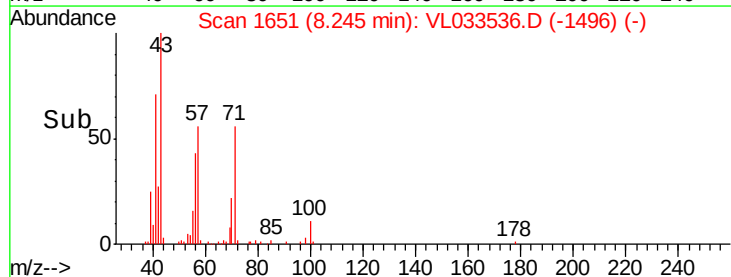
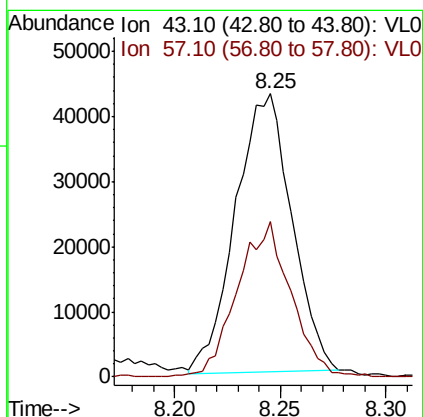
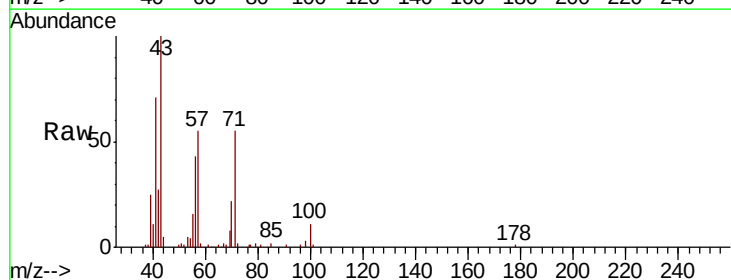
Acq: 4 Apr 2019 17:04

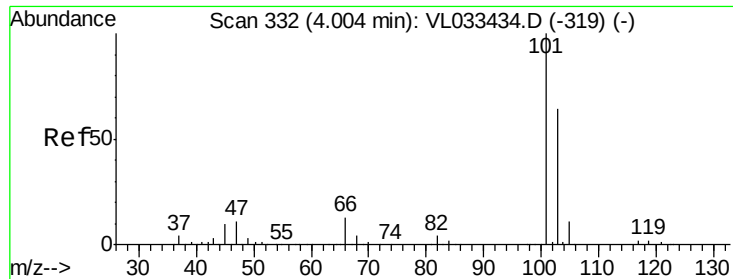
Tgt Ion: 43 Resp: 79275

Ion Ratio Lower Upper

43 100

57 53.3 40.6 60.8





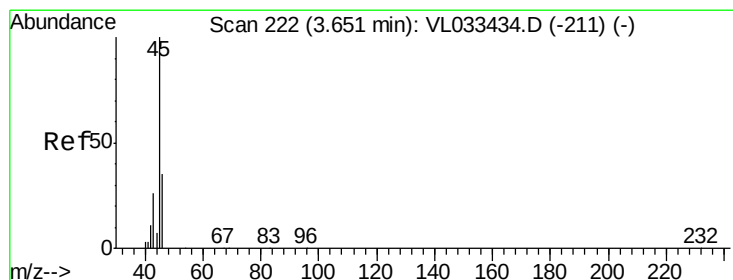
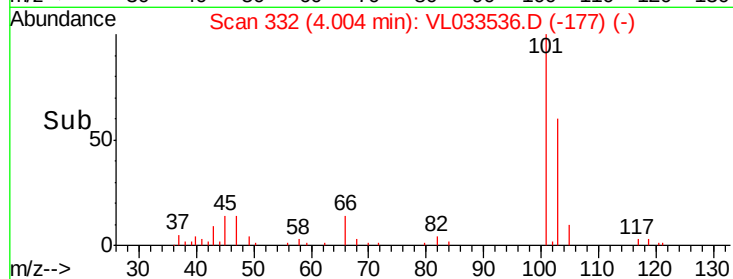
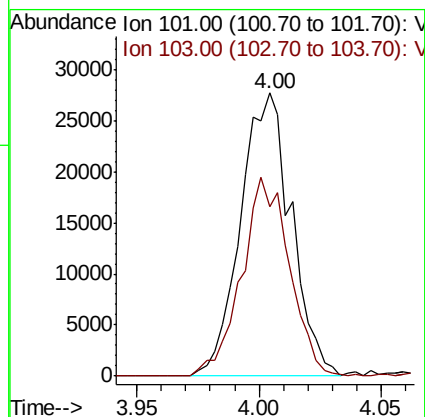
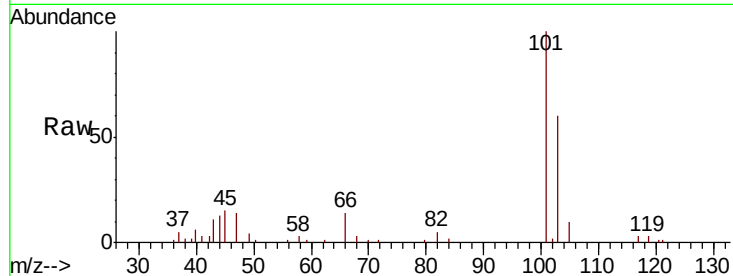
#11
 Trichlorofluoromethane
 Concen: 0.245 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. -0.00 min
 Lab File: VL033536.D
 Acq: 4 Apr 2019 17:04

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1DUP

Tot Ion:101 Resp: 39865
 Ion Ratio Lower Upper
 101 100
 103 59.7 51.3 76.9

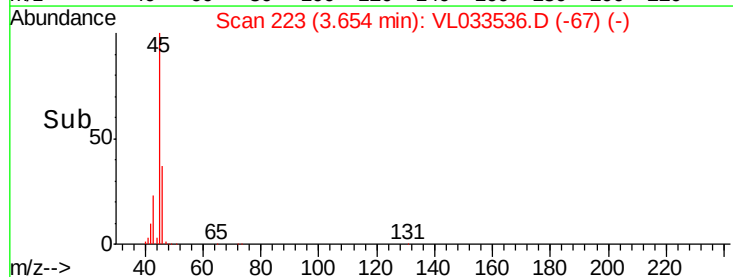
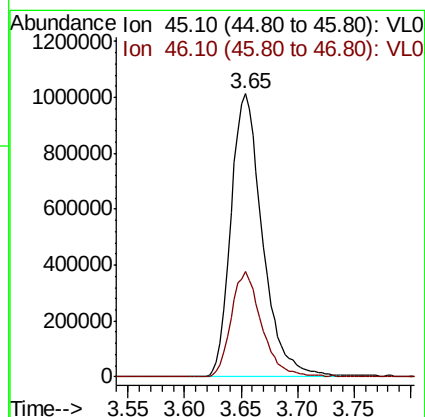
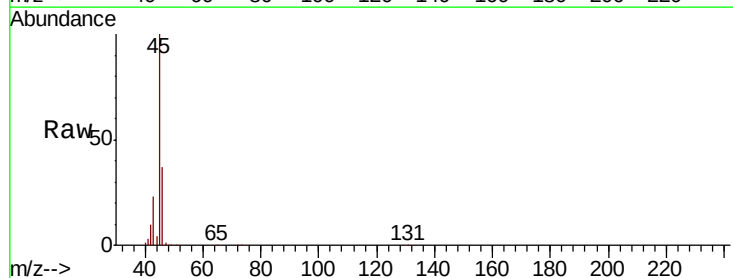
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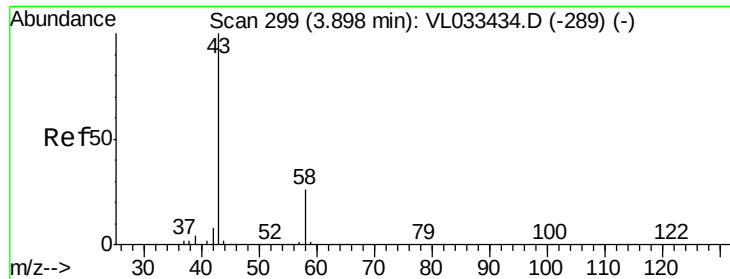
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#13
 Ethanol
 Concen: 173.740 ppbv
 RT: 3.65 min Scan# 223
 Delta R.T. 0.00 min
 Lab File: VL033536.D
 Acq: 4 Apr 2019 17:04

Tgt Ion: 45 Resp: 1969418
 Ion Ratio Lower Upper
 45 100
 46 36.4 25.4 101.8





#15

Acetone

Concen: 11.129 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033536.D

Acq: 4 Apr 2019 17:04

Instrument :

MSVOA_L

ClientSampleId :

A-1DUP

Tot Ion: 43 Resp: 1212369

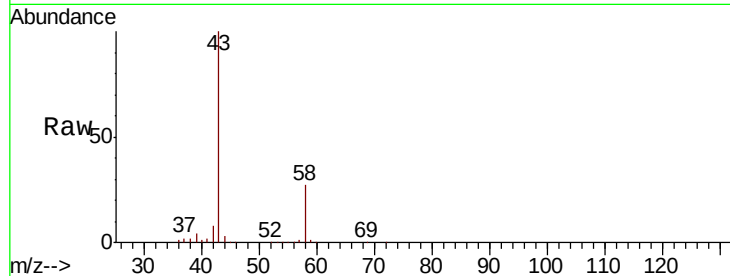
Ion Ratio Lower Upper

43 100

58 26.3 20.5 30.7

Manual Integrations
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.90

800000

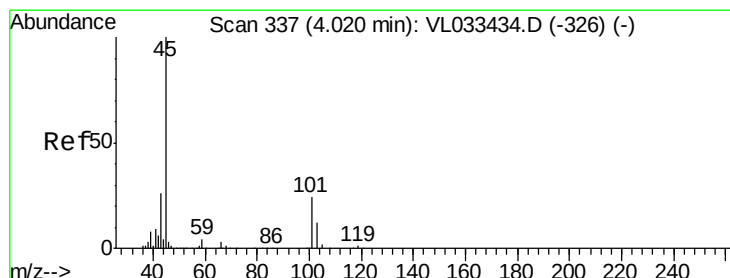
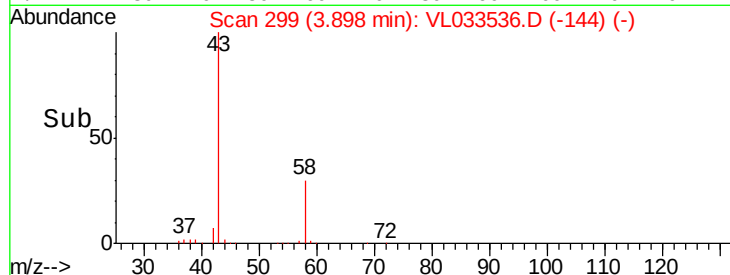
600000

400000

200000

0

Time-->



#19

Isopropyl Alcohol

Concen: 7.567 ppbv

RT: 4.03 min Scan# 341

Delta R.T. 0.01 min

Lab File: VL033536.D

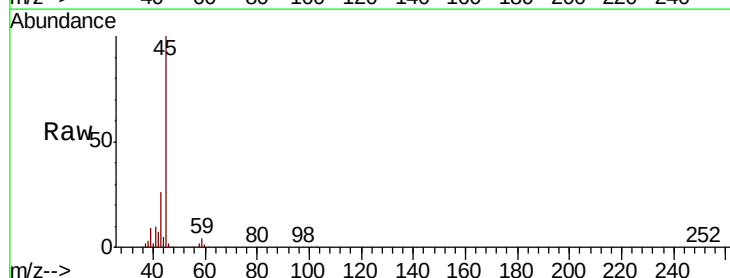
Acq: 4 Apr 2019 17:04

Tgt Ion: 45 Resp: 521382

Ion Ratio Lower Upper

45 100

58 2.8 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

4.03

300000

250000

200000

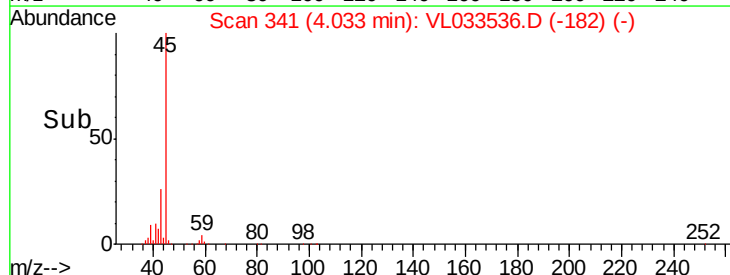
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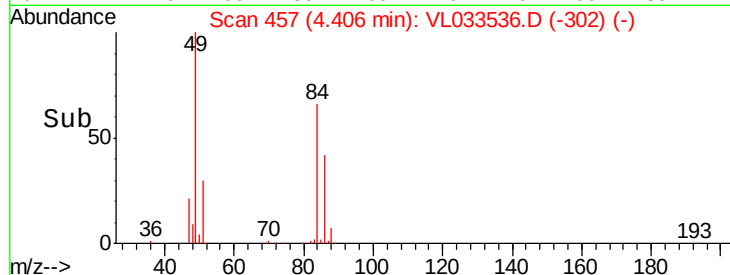
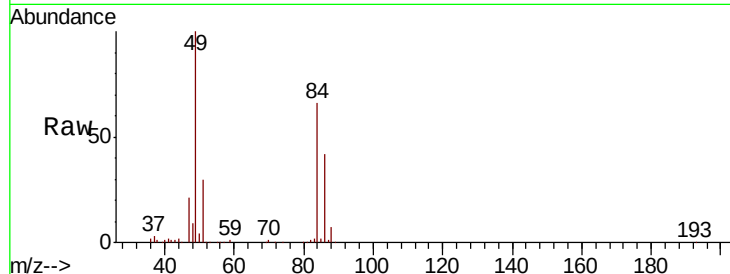
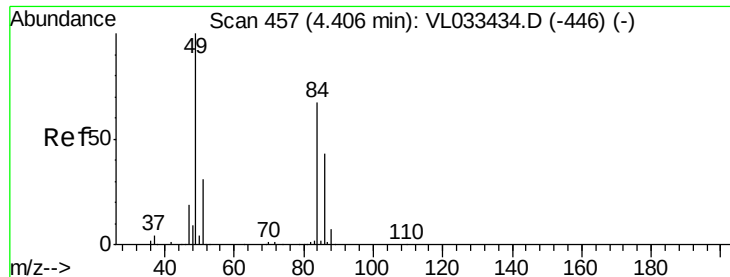
100000

50000

0

Time-->





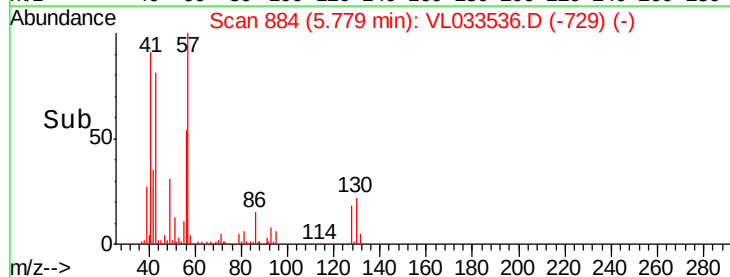
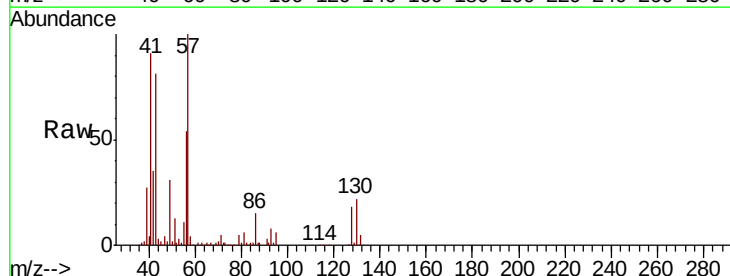
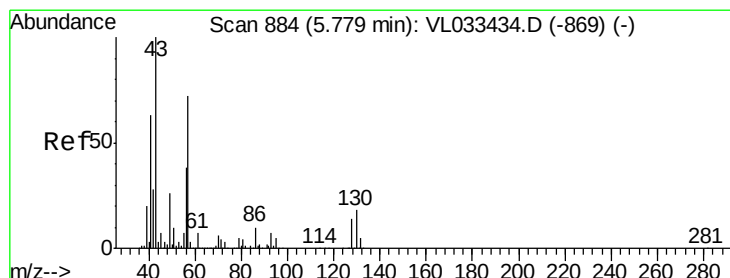
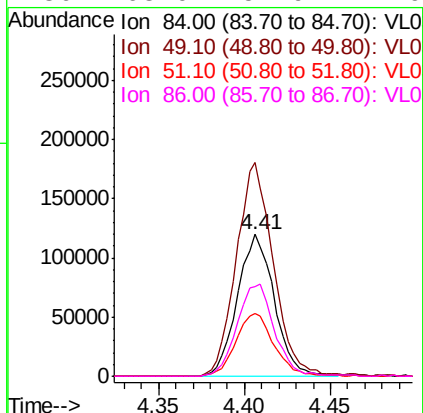
#20
Methvlene Chloride
Concen: 3.859 ppbv
RT: 4.41 min Scan# 457
Delta R.T. -0.00 min
Lab File: VL033536.D
Acq: 4 Apr 2019 17:04

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	150.5	120.0	180.0		
51	44.5	36.7	55.1		
86	63.0	51.9	77.9		

Instrument :
MSVOA_L
ClientSampleId :
A-1DUP

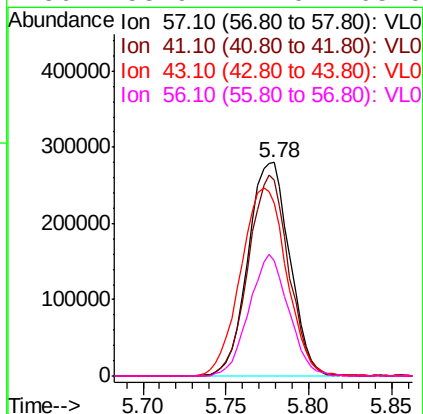
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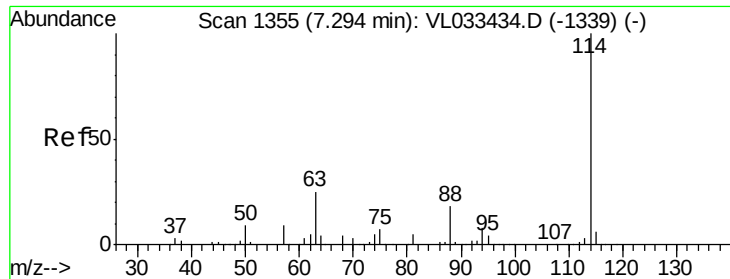
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#26
Hexane
Concen: 5.428 ppbv
RT: 5.78 min Scan# 884
Delta R.T. -0.00 min
Lab File: VL033536.D
Acq: 4 Apr 2019 17:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	91.7	70.7	106.1		
43	98.4	182.6	274.0#		
56	53.9	42.0	63.0		





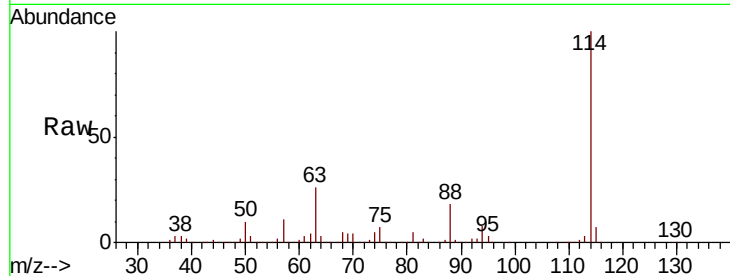
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033536.D
 Acq: 4 Apr 2019 17:04

Instrument :
 MSVOA_L
 ClientSampled :
 A-1DUP

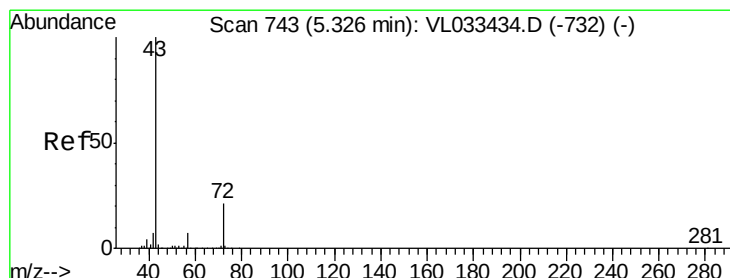
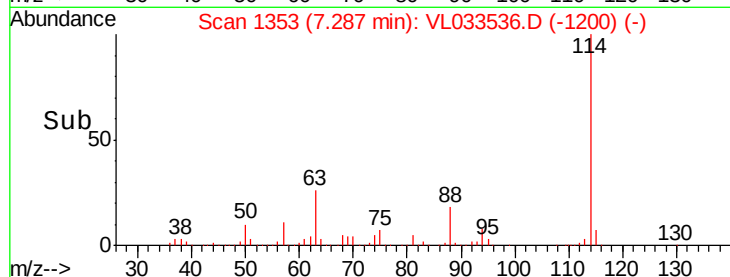
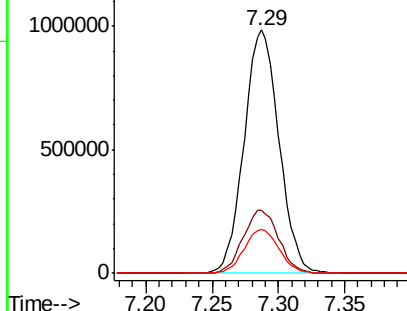
Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.5	32.3
88	18.1	14.5	21.7

Manual Integrations
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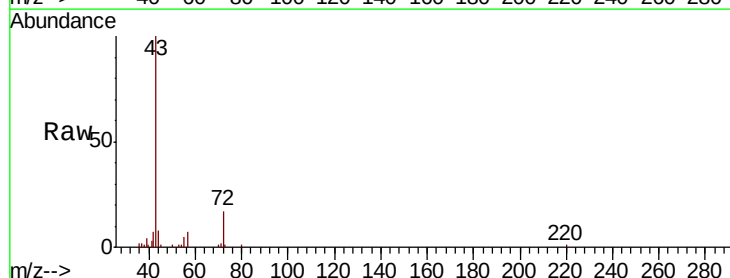


Abundance Ion 114.10 (113.80 to 114.80): VL0
 Ion 63.10 (62.80 to 63.80): VL0
 Ion 88.10 (87.80 to 88.80): VL0

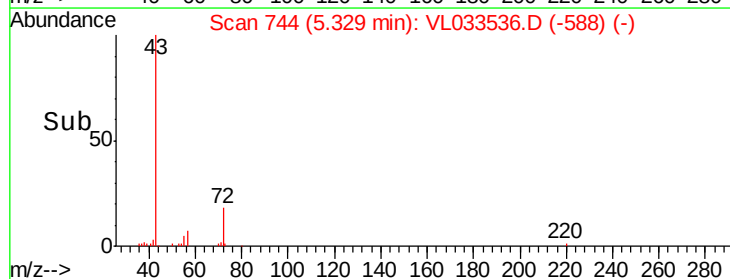
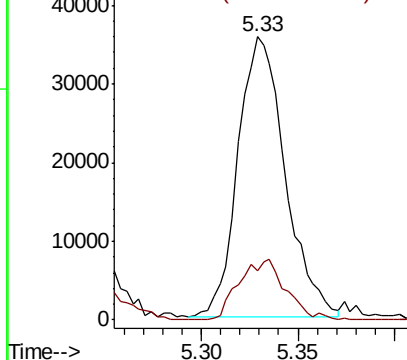


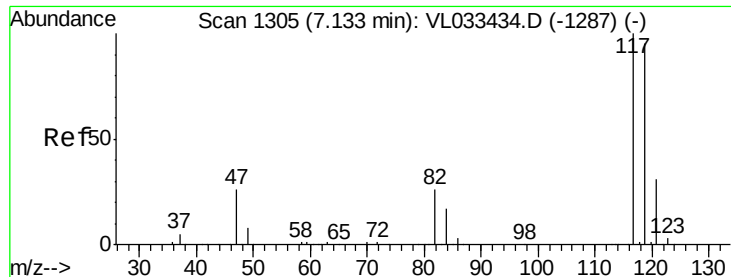
#34
 2-Butanone
 Concen: 0.561 ppbv
 RT: 5.33 min Scan# 744
 Delta R.T. 0.00 min
 Lab File: VL033536.D
 Acq: 4 Apr 2019 17:04

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.3	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: 0.066 ppbv m

RT: 7.12 min Scan# 1302

Delta R.T. -0.01 min

Lab File: VL033536.D

Acq: 4 Apr 2019 17:04

Instrument :

MSVOA_L

ClientSampleId :

A-1DUP

Tot Ion:117 Resp: 8446

Ion Ratio Lower Upper

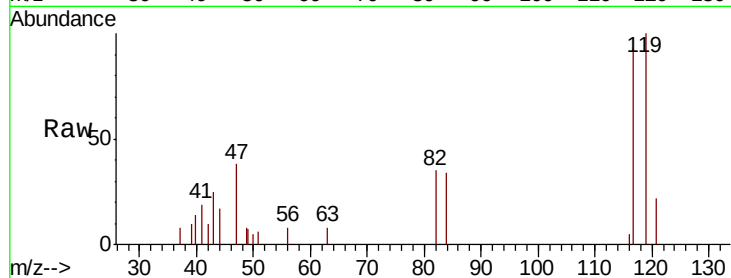
117 100

119 107.6 75.8 113.8

121 23.6 24.7 37.1#

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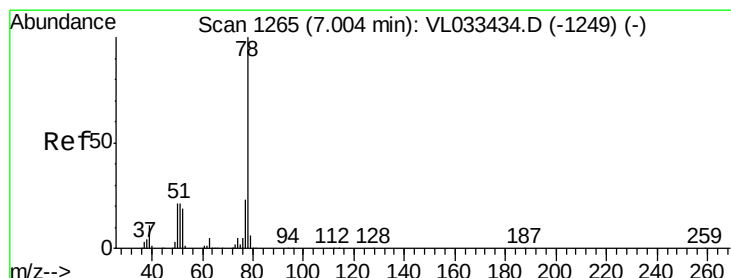
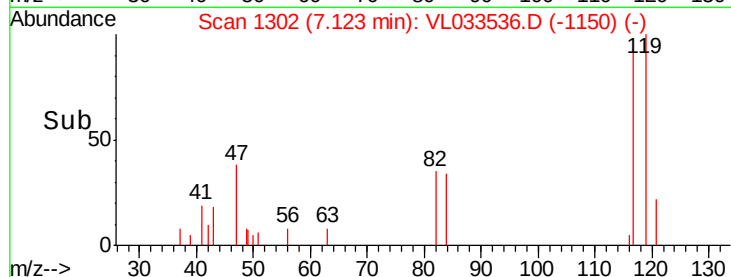
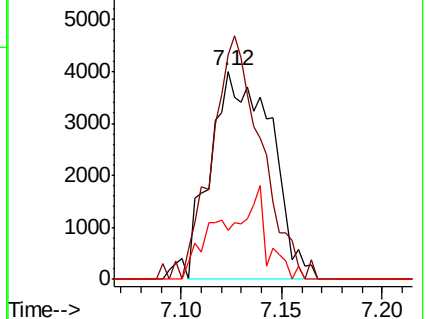
MMDadoda
4/8/2019 3:22:15 AM



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: 0.226 ppbv m

RT: 7.00 min Scan# 1263

Delta R.T. -0.01 min

Lab File: VL033536.D

Acq: 4 Apr 2019 17:04

Tgt Ion: 78 Resp: 34078

Ion Ratio Lower Upper

78 100

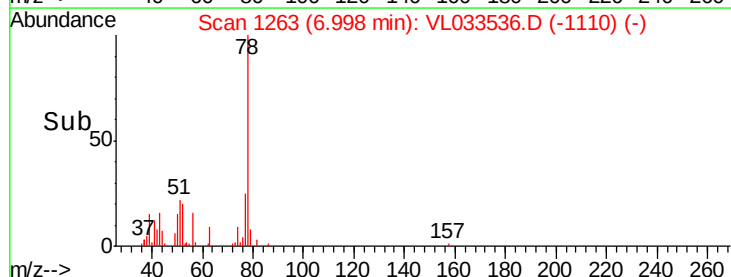
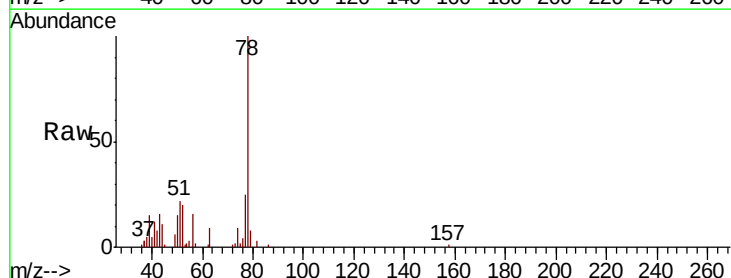
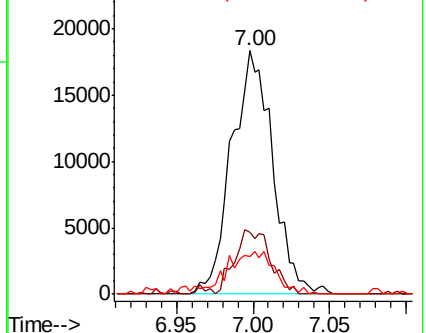
77 25.3 18.1 27.1

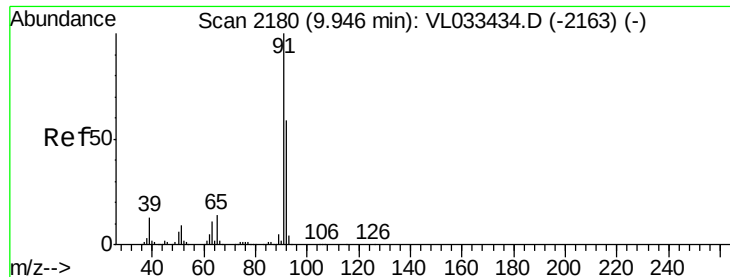
50 15.4 16.7 25.1#

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: 8.450 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033536.D

Acq: 4 Apr 2019 17:04

Instrument :

MSVOA_L

ClientSampleId :

A-1DUP

Tot Ion: 91 Resp: 1481266

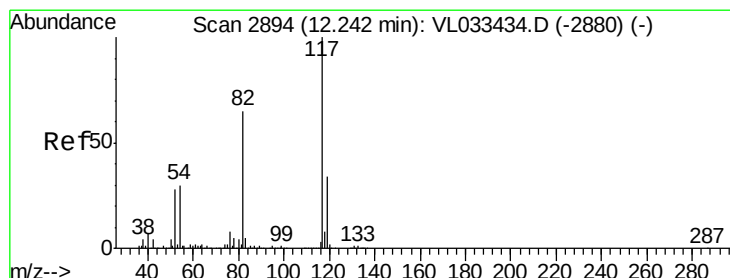
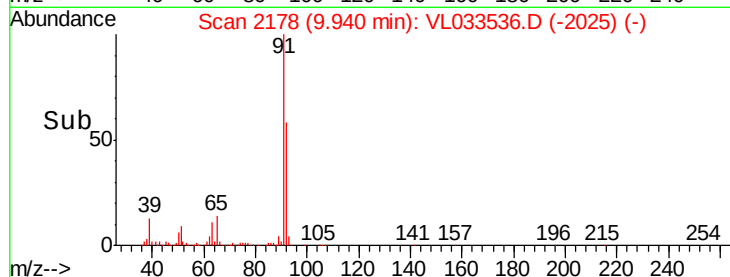
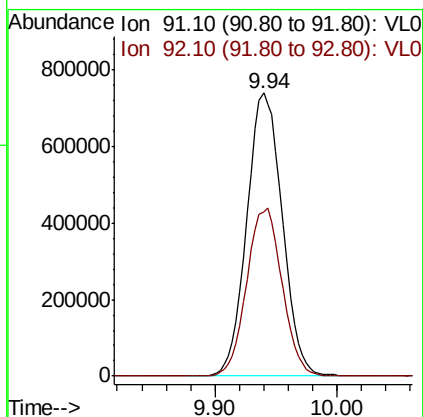
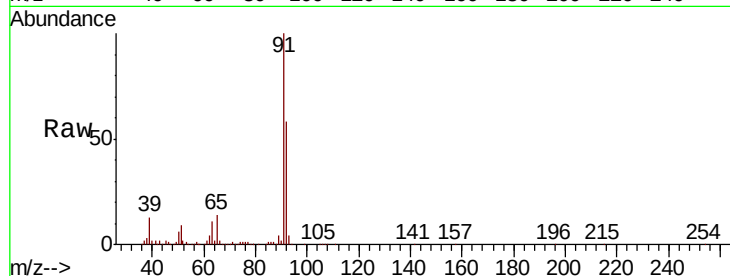
Ion Ratio Lower Upper

91 100

92 59.2 47.4 71.0

Manual Integrations
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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: VL033536.D

Acq: 4 Apr 2019 17:04

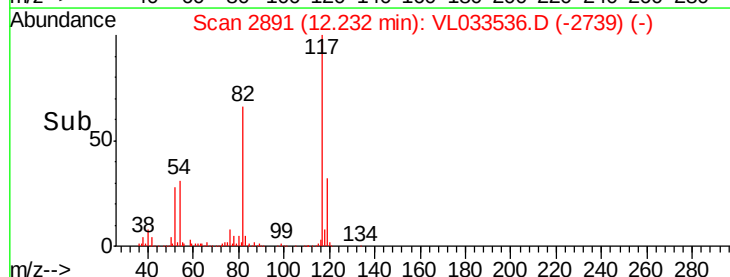
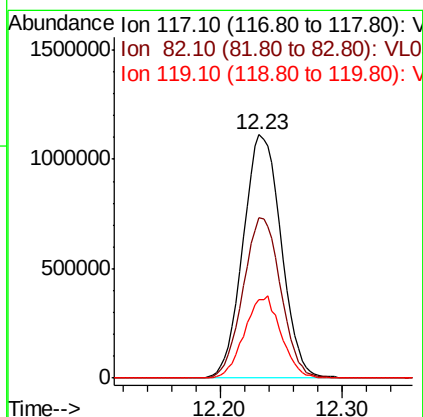
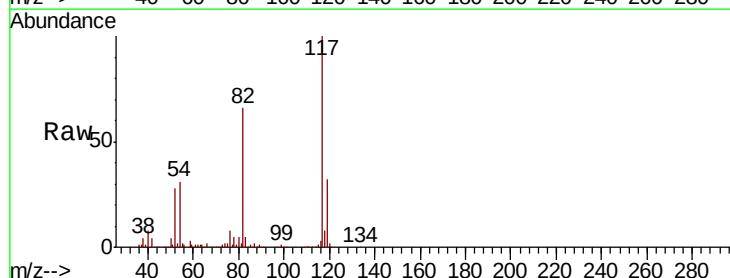
Tgt Ion: 117 Resp: 2395751

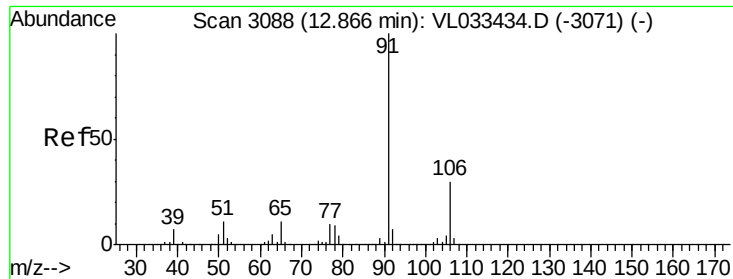
Ion Ratio Lower Upper

117 100

82 65.5 51.5 77.3

119 32.2 25.5 38.3





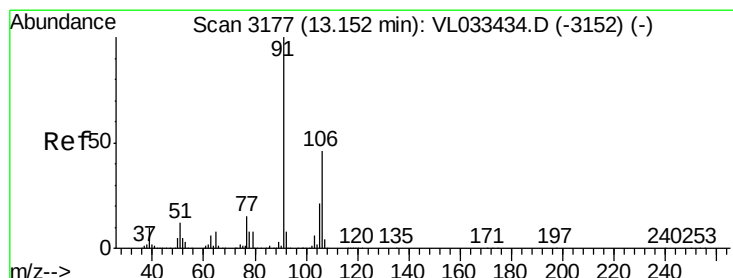
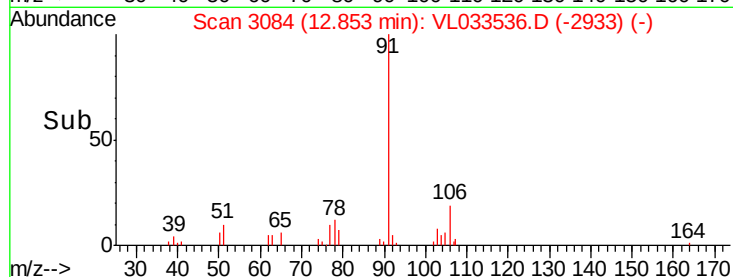
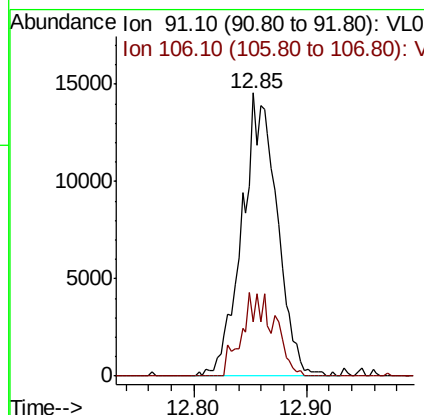
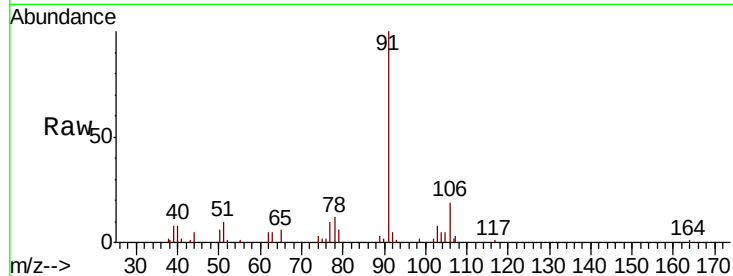
#58
Ethyl Benzene
Concen: 0.098 ppbv m
RT: 12.85 min Scan# 3084
Delta R.T. -0.01 min
Lab File: VL033536.D
Acq: 4 Apr 2019 17:04

Instrument :
MSVOA_L
ClientSampled :
A-1DUP

Tot Ion: 91 Resp: 31425
Ion Ratio Lower Upper
91 100
106 19.1 23.8 35.6#

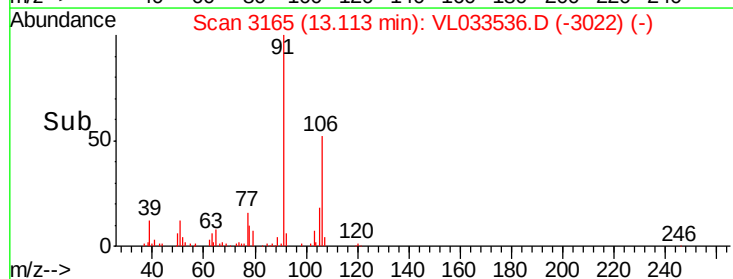
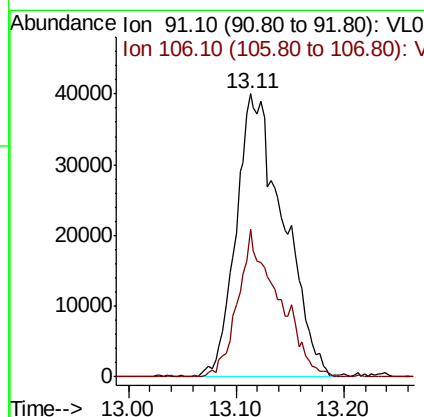
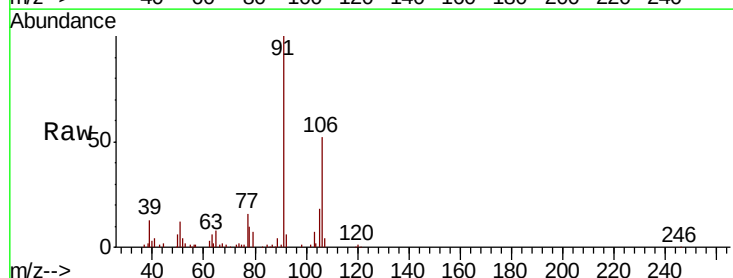
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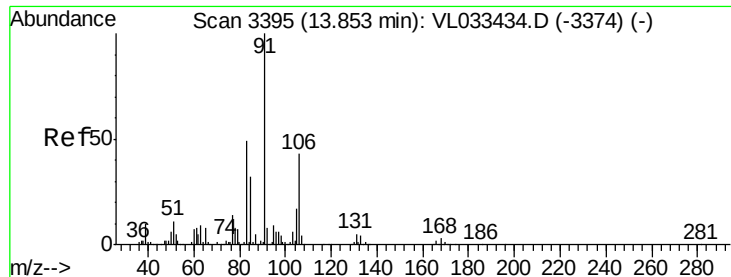
MMDadoda
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#59
m/p-Xylene
Concen: 0.426 ppbv m
RT: 13.11 min Scan# 3165
Delta R.T. -0.04 min
Lab File: VL033536.D
Acq: 4 Apr 2019 17:04

Tgt Ion: 91 Resp: 121815
Ion Ratio Lower Upper
91 100
106 0.0 0.0 0.0





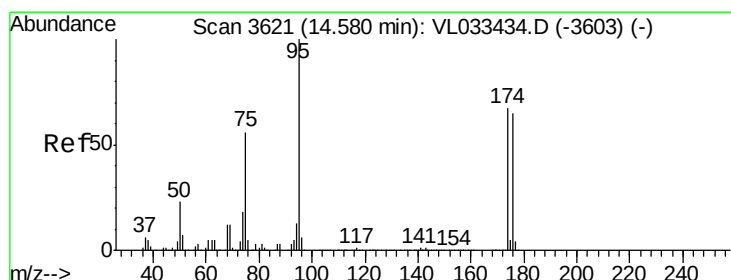
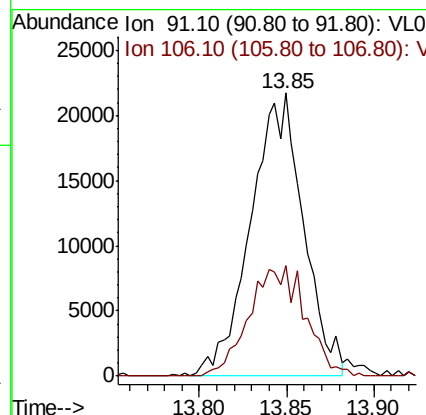
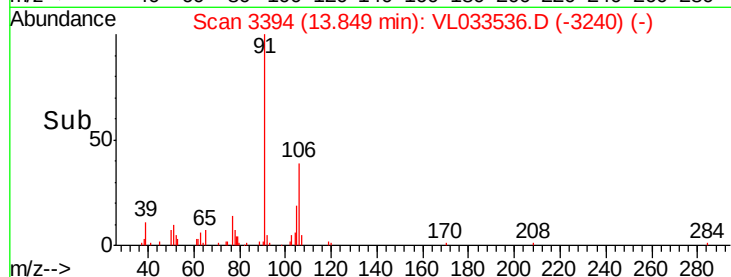
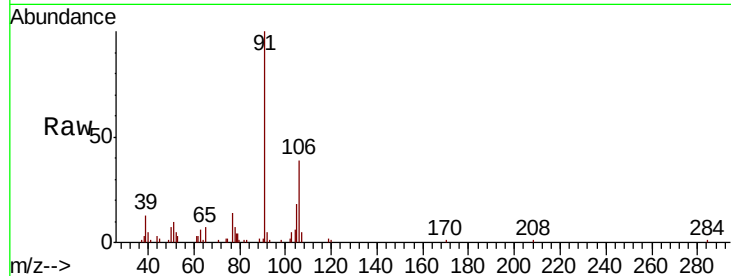
#60
o-Xylene
Concen: 0.165 ppbv m
RT: 13.85 min Scan# 3394
Delta R.T. -0.00 min
Lab File: VL033536.D
Acq: 4 Apr 2019 17:04

Instrument :
MSVOA_L
ClientSampleId :
A-1DUP

Tot Ion: 91 Resp: 45633
Ion Ratio Lower Upper
91 100
106 0.0 21.4 64.3#

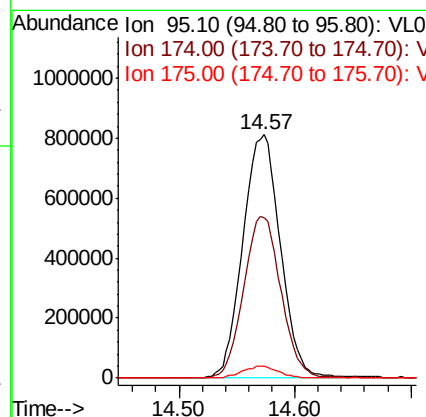
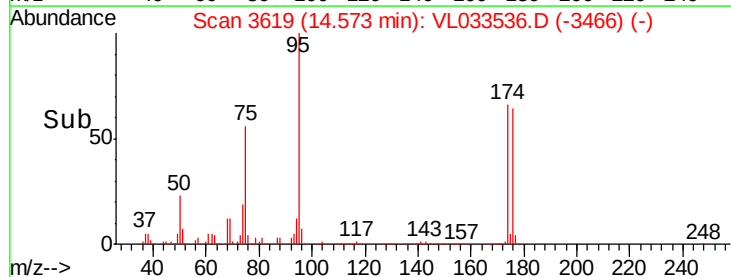
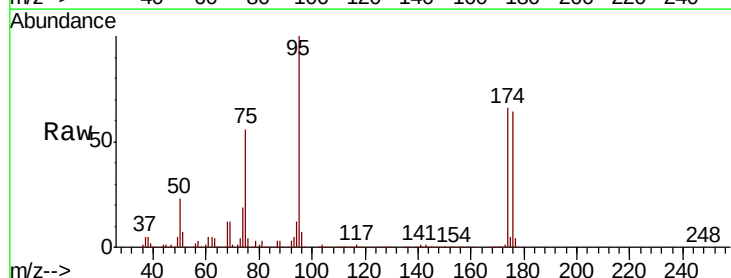
Manual Integrations
APPROVED

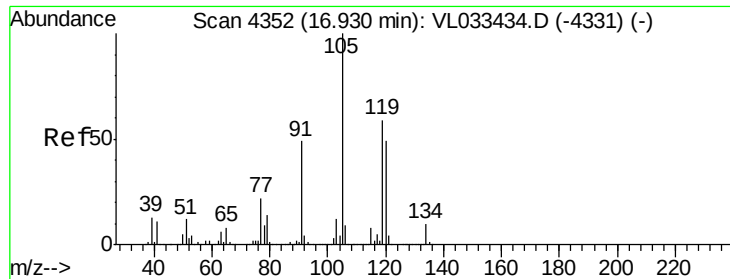
MMDadoda
4/8/2019 3:22:15 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.739 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033536.D
Acq: 4 Apr 2019 17:04

Tgt Ion: 95 Resp: 1829119
Ion Ratio Lower Upper
95 100
174 66.1 52.9 79.3
175 4.9 3.8 5.6





#74

1,2,4-Trimethylbenzene

Concen: 0.209 ppbv m

RT: 16.92 min Scan# 4350

Delta R.T. -0.01 min

Lab File: VL033536.D

Acq: 4 Apr 2019 17:04

Instrument :

MSVOA_L

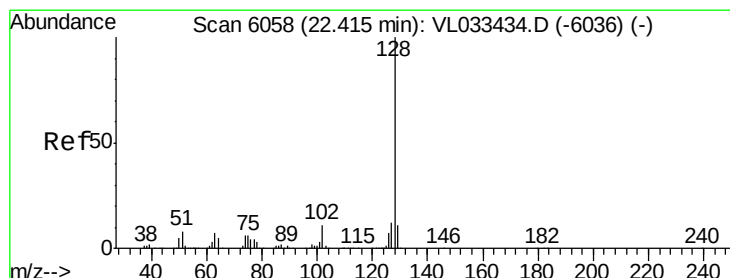
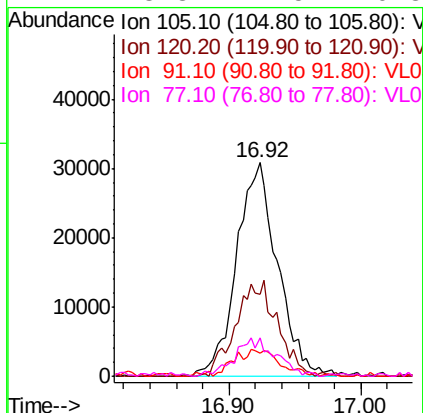
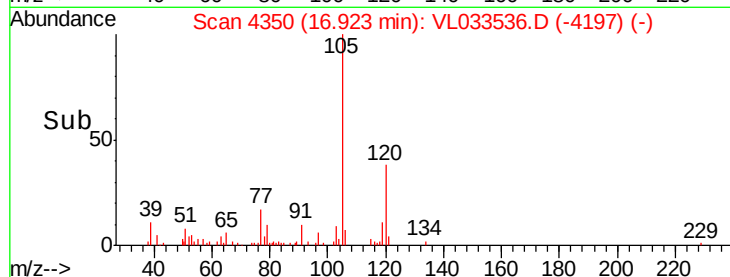
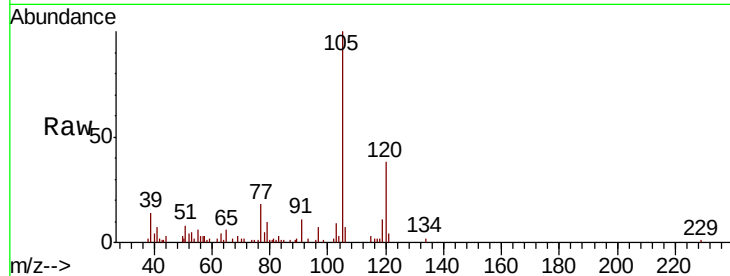
ClientSampleId :

A-1DUP

Tot Ion:	105	Resp:	66542
Ion Ratio	Lower	Upper	
105	100		
120	38.5	39.0	58.6#
91	10.8	40.0	60.0#
77	18.3	17.5	26.3

Manual Integrations
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4/8/2019 3:22:15 AM



#79

Naphthalene

Concen: 0.152 ppbv m

RT: 22.41 min Scan# 6057

Delta R.T. -0.00 min

Lab File: VL033536.D

Acq: 4 Apr 2019 17:04

Tgt Ion:	128	Resp:	41526
Ion Ratio	Lower	Upper	
128	100		
127	9.8	9.8	14.8#
129	10.4	8.6	12.8

