

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
 Data File : VL033092.D
 Acq On : 16 Jan 2019 14:59
 Operator : SY/AP
 Sample : K1130-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1A

Manual Integrations
 APPROVED

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 1/17/2019 3:16:11 PM

Quant Time: Jan 17 03:03:25 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan 0
 QLast Update : Fri Jan 04 16:09:05 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1058006	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2566395	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2287498	10.00	ppbv	-0.01

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1797793	10.25	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	45359	0.230	ppbv #	88
3) Chlorodifluoromethane	3.01	51	78482m	0.655	ppbv	
4) Chloromethane	3.17	50	36315	0.529	ppbv	97
9) Propene	3.04	41	33030	0.738	ppbv	85
11) Trichlorofluoromethane	4.00	101	44793	0.206	ppbv	89
13) Ethanol	3.64	45	921693	51.660	ppbv	94
15) Acetone	3.90	43	720732	4.922	ppbv	100
20) Methylene Chloride	4.40	84	787251	12.895	ppbv	99
26) Hexane	5.78	57	1107700	9.504	ppbv #	43
35) Carbon Tetrachloride	7.14	117	15763m	0.072	ppbv	
36) Benzene	7.00	78	37960m	0.181	ppbv	
52) Tetrachloroethene	11.37	164	3920m	0.053	ppbv	
53) Toluene	9.94	91	900779	3.998	ppbv	99

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

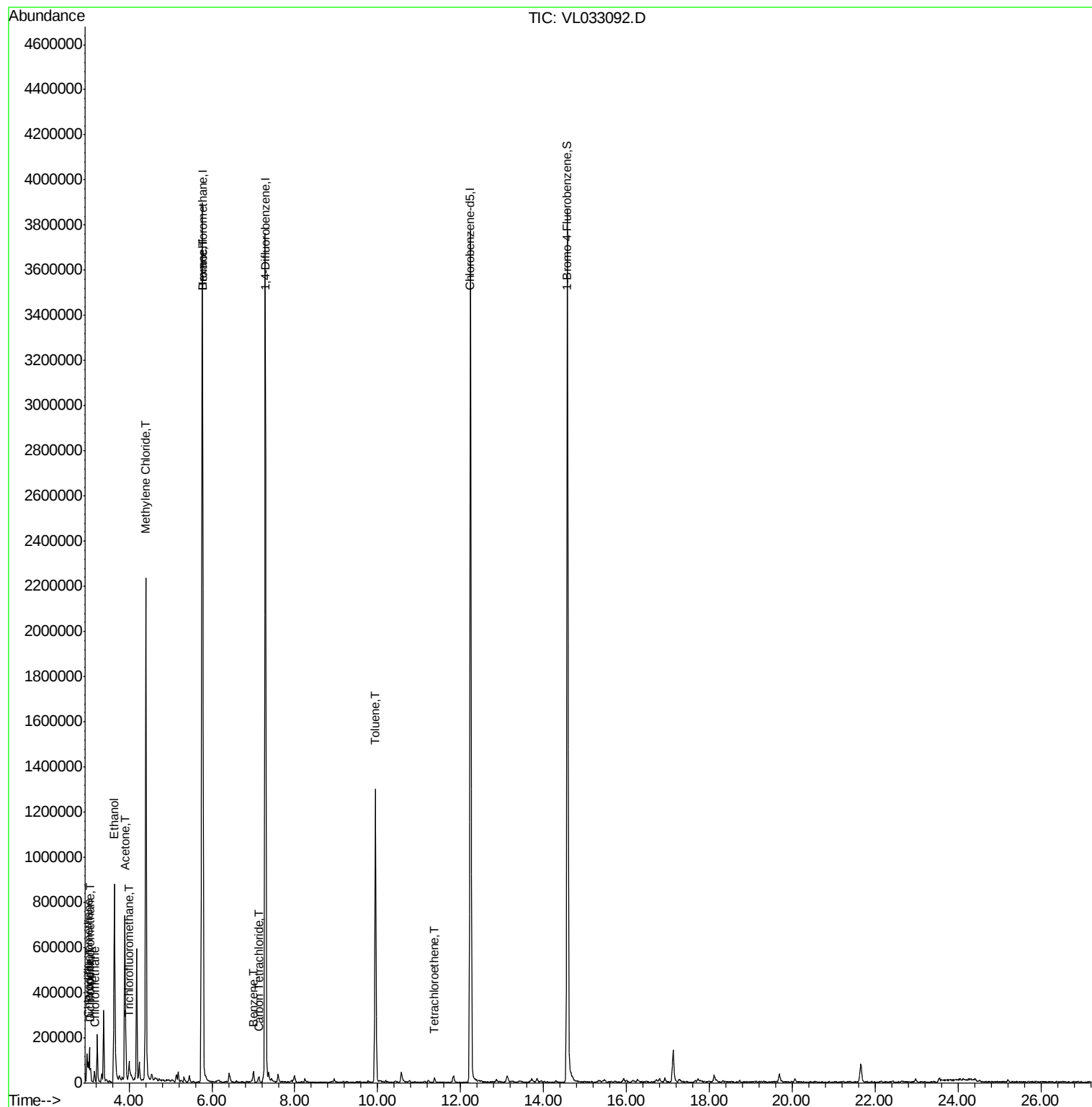
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
Data File : VL033092.D
Acq On : 16 Jan 2019 14:59
Operator : SY/AP
Sample : K1130-01
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

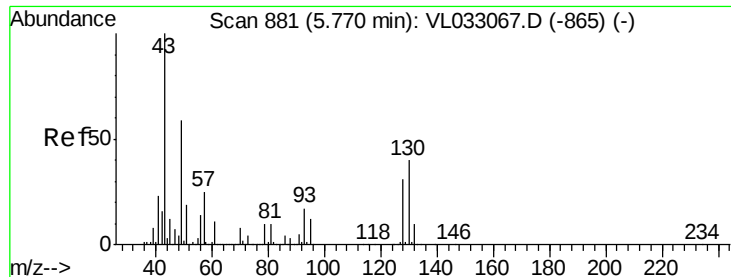
Instrument :
MSVOA_L
ClientSampleId :
IA1A

Manual Integrations
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Quant Time: Jan 17 03:03:25 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL010419AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jan
QLast Update : Fri Jan 04 16:09:05 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: VL033092.D

Acq: 16 Jan 2019 14:59

Instrument :

MSVOA_L

ClientSampleId :

IA1A

Tot Ion: 49 Resp: 1058006

Ion Ratio Lower Upper

49 100

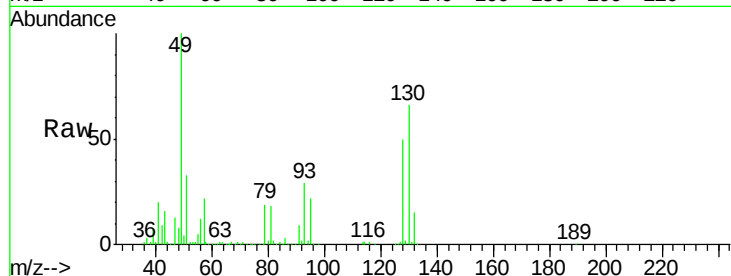
128 51.6 26.2 78.5

130 66.9 33.6 100.6

Manual Integrations
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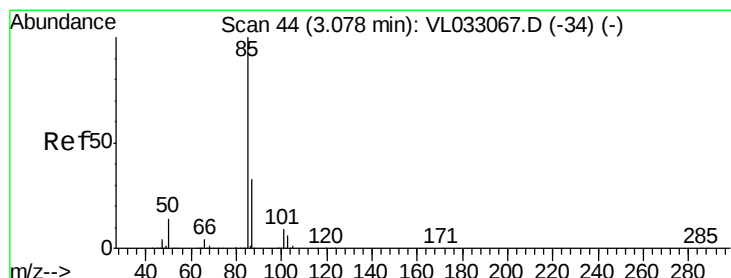
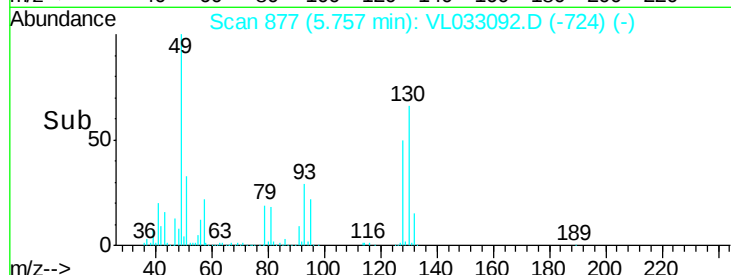
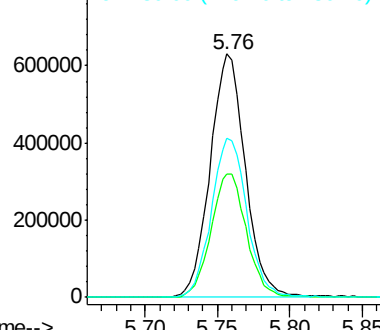
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.230 ppbv

RT: 3.07 min Scan# 42

Delta R.T. -0.01 min

Lab File: VL033092.D

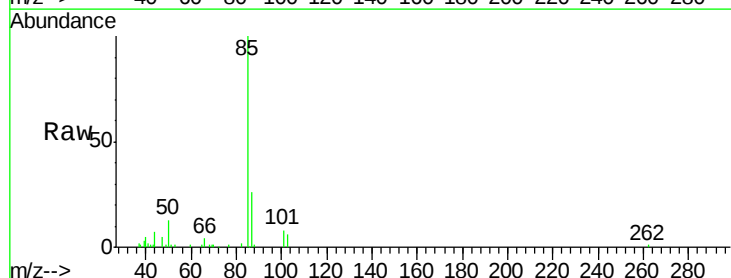
Acq: 16 Jan 2019 14:59

Tgt Ion: 85 Resp: 45359

Ion Ratio Lower Upper

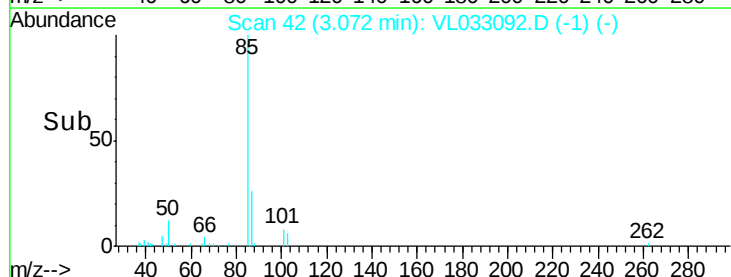
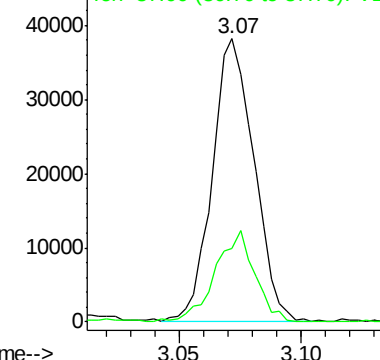
85 100

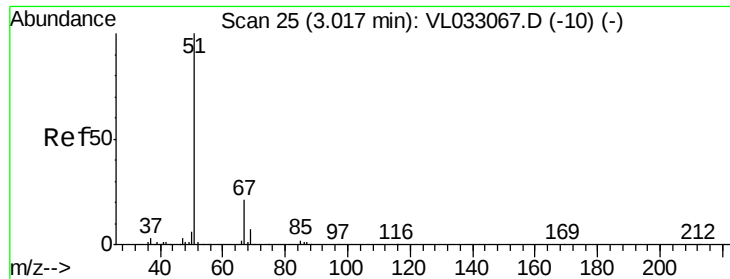
87 26.0 26.3 39.5#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.655 ppbv

RT: 3.01 min Scan# 23

Delta R.T. -0.00 min

Lab File: VL033092.D

Acq: 16 Jan 2019 14:59

Instrument :

MSVOA_L

ClientSampled :

IA1A

Tot Ion: 51 Resp: 78482

Ion Ratio Lower Upper

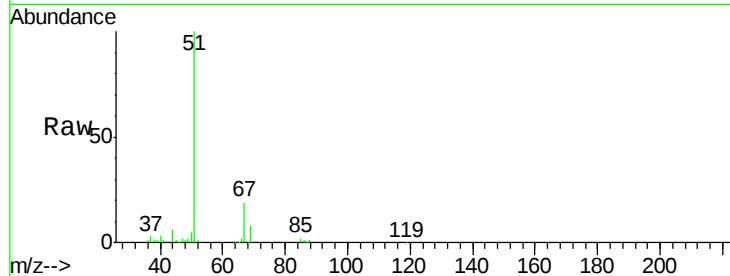
51 100

67 20.1 16.3 24.5

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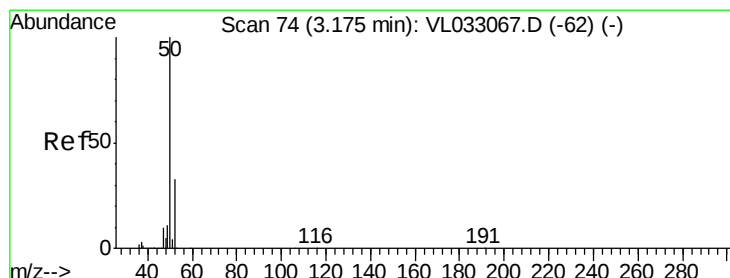
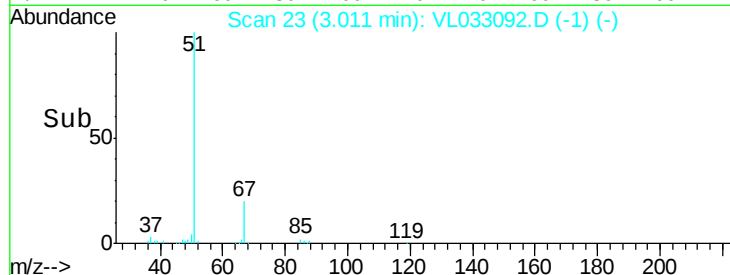
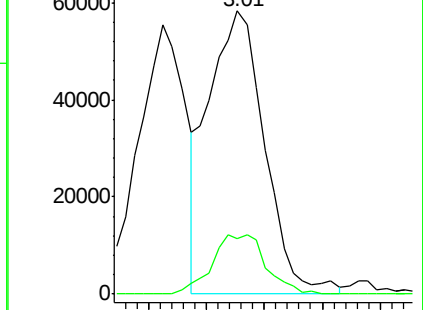
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.529 ppbv

RT: 3.17 min Scan# 72

Delta R.T. -0.00 min

Lab File: VL033092.D

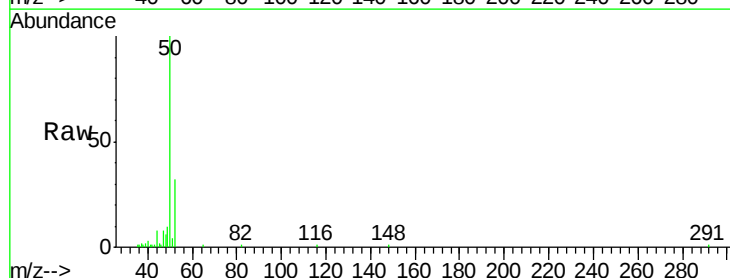
Acq: 16 Jan 2019 14:59

Tgt Ion: 50 Resp: 36315

Ion Ratio Lower Upper

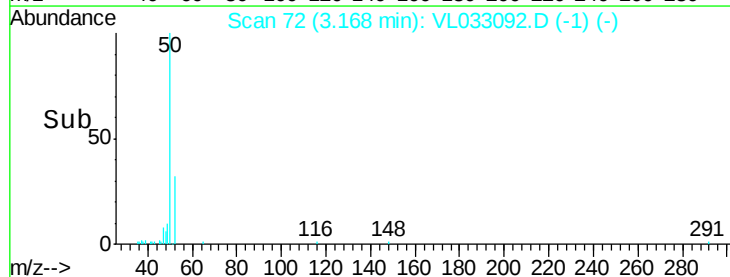
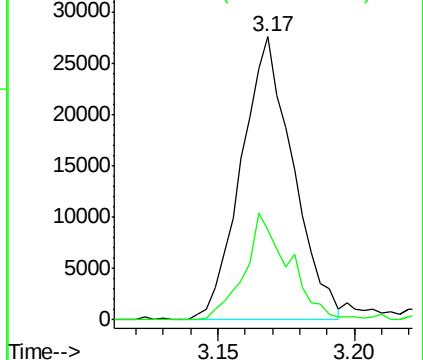
50 100

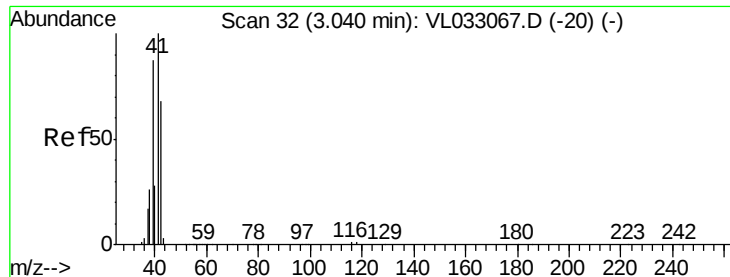
52 31.9 26.9 40.3



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.738 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033092.D

Acq: 16 Jan 2019 14:59

Instrument :

MSVOA_L

ClientSampled :

IA1A

Tot Ion: 41 Resp: 33030

Ion Ratio Lower Upper

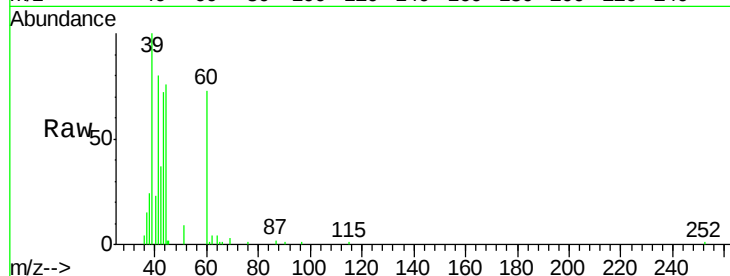
41 100

42 56.5 55.3 82.9

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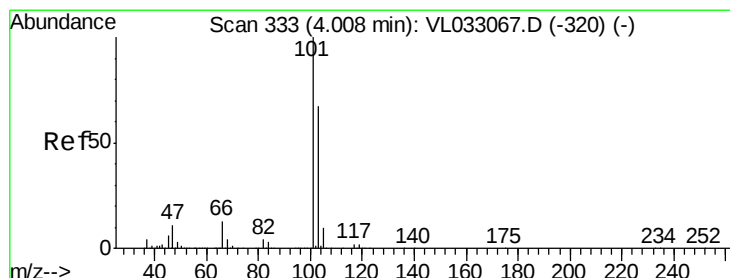
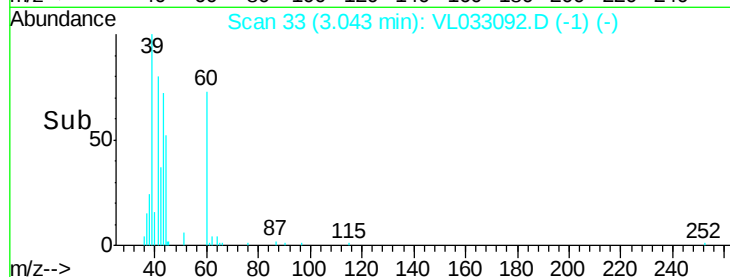
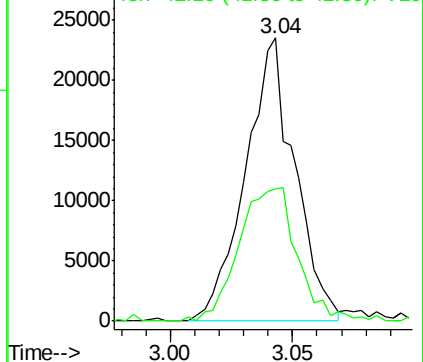
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Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0



#11

Trichlorofluoromethane

Concen: 0.206 ppbv

RT: 4.00 min Scan# 331

Delta R.T. -0.00 min

Lab File: VL033092.D

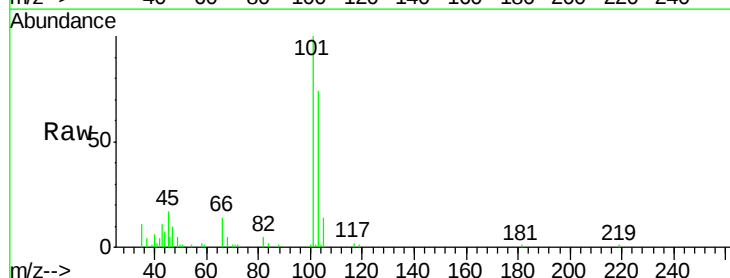
Acq: 16 Jan 2019 14:59

Tgt Ion: 101 Resp: 44793

Ion Ratio Lower Upper

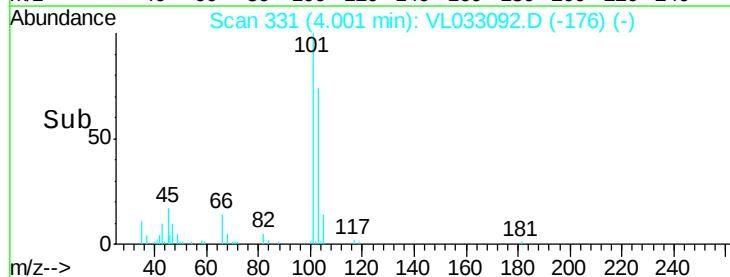
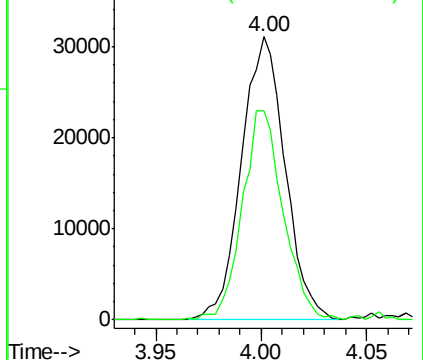
101 100

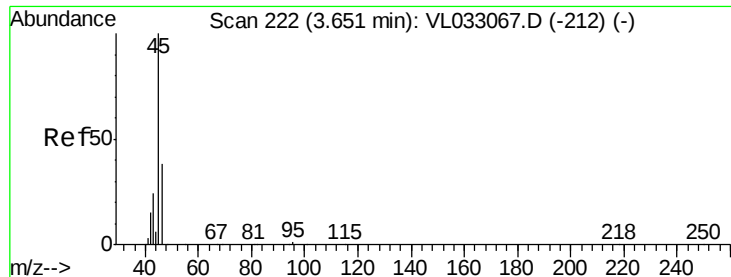
103 73.2 51.7 77.5



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





#13

Ethanol

Concen: 51.660 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033092.D

Acq: 16 Jan 2019 14:59

Instrument :

MSVOA_L

ClientSampled :

IA1A

Tot Ion: 45 Resp: 921693

Ion Ratio Lower Upper

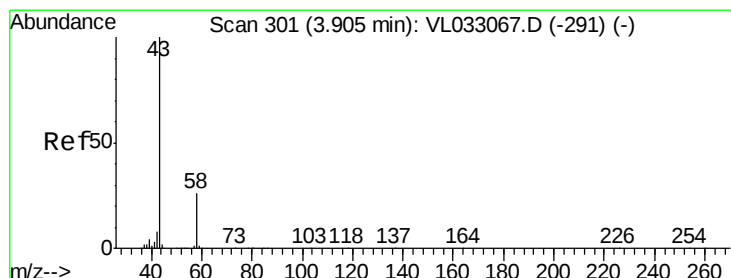
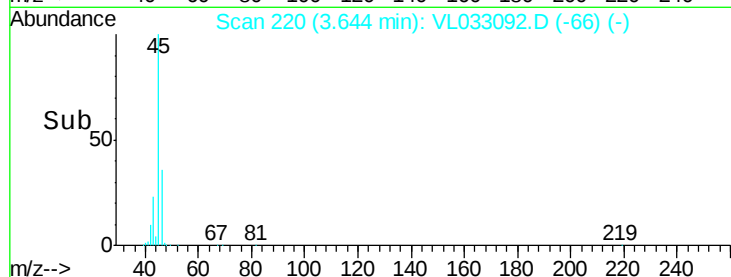
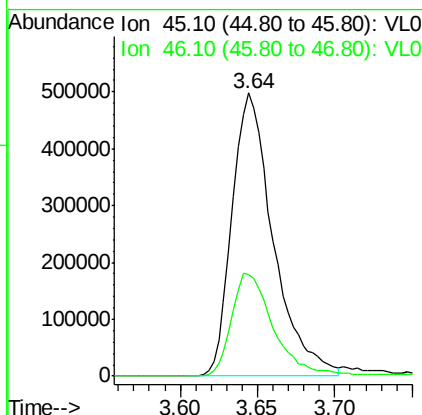
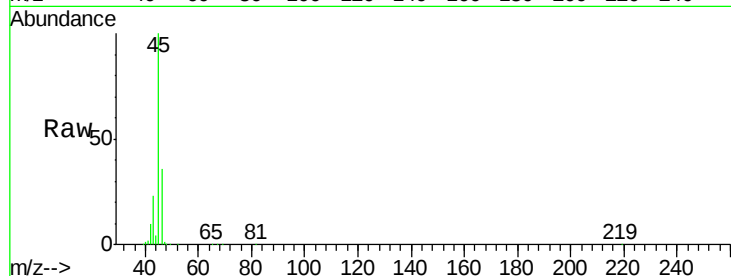
45 100

46 38.1 13.8 55.2

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#15

Acetone

Concen: 4.922 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033092.D

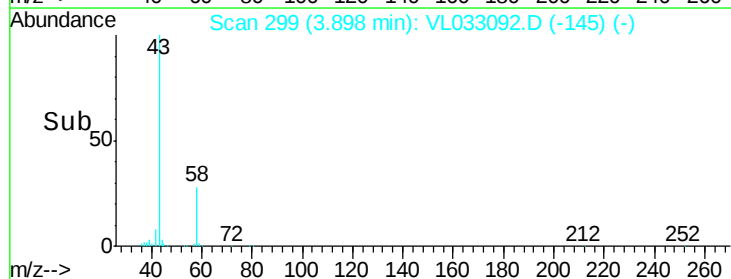
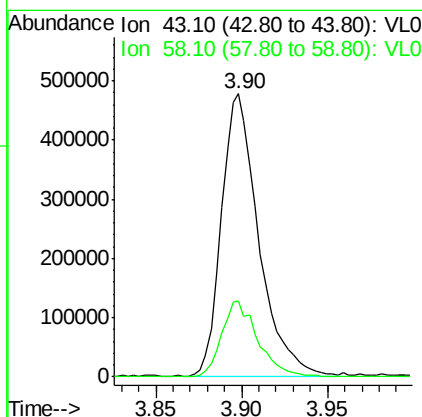
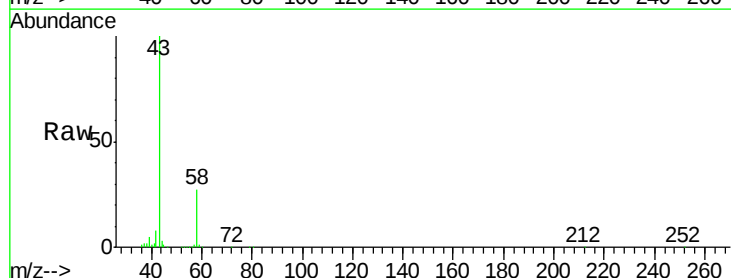
Acq: 16 Jan 2019 14:59

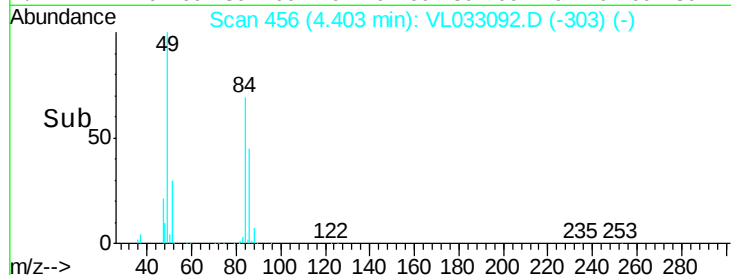
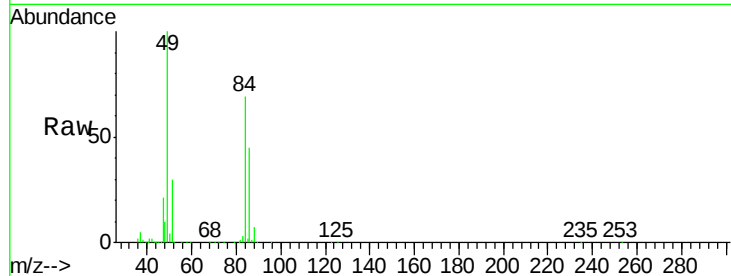
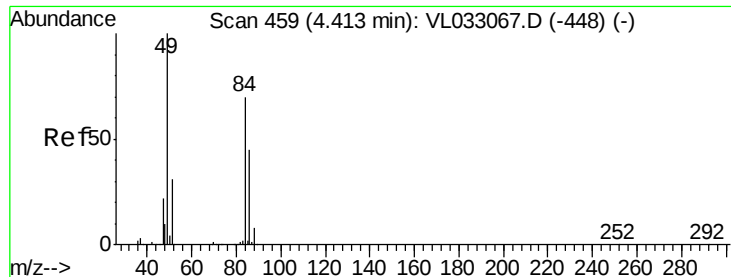
Tgt Ion: 43 Resp: 720732

Ion Ratio Lower Upper

43 100

58 26.4 21.1 31.7





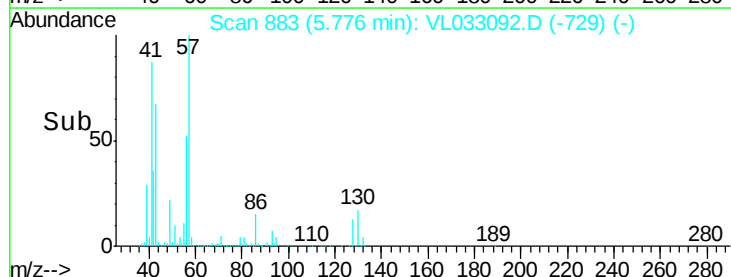
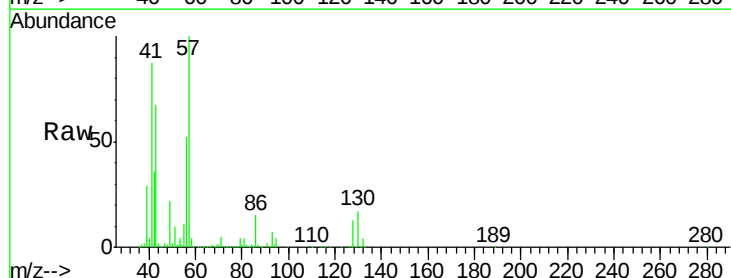
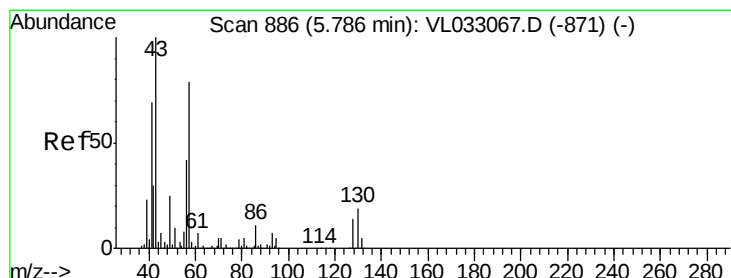
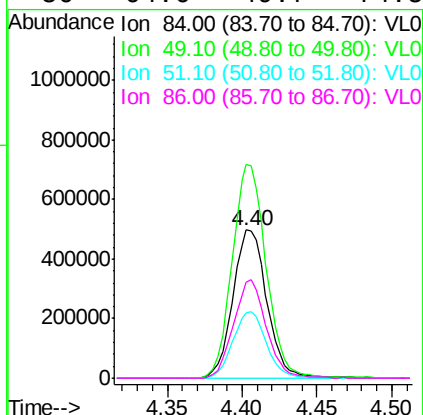
#20
Methvlene Chloride
Concen: 12.895 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.01 min
Lab File: VL033092.D
Acq: 16 Jan 2019 14:59

Tot Ion	Ratio	Lower	Upper
84	100		
49	143.9	115.8	173.6
51	43.9	35.7	53.5
86	64.6	49.7	74.5

Instrument :
MSVOA_L
ClientSampled :
IA1A

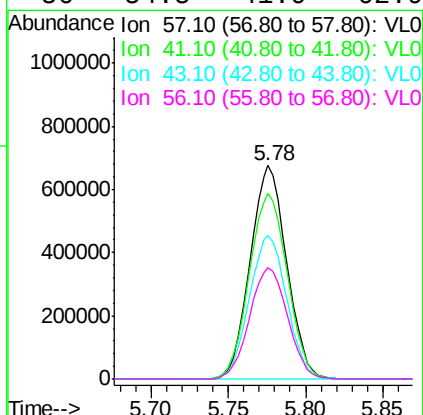
Manual Integrations
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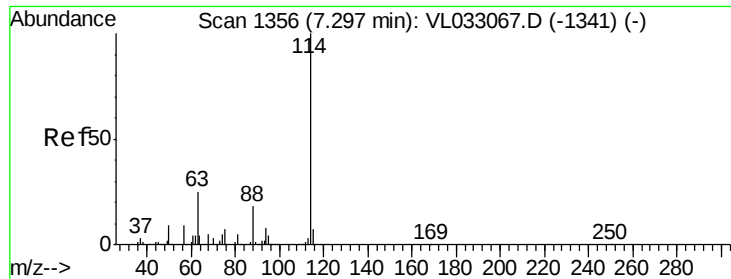
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#26
Hexane
Concen: 9.504 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033092.D
Acq: 16 Jan 2019 14:59

Tgt Ion	Ratio	Lower	Upper
57	100		
41	91.4	70.8	106.2
43	69.3	171.8	257.6#
56	54.5	41.9	62.9





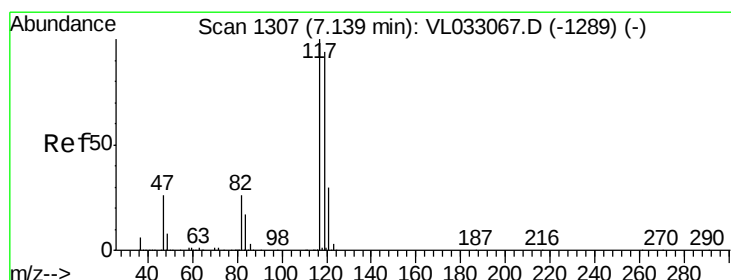
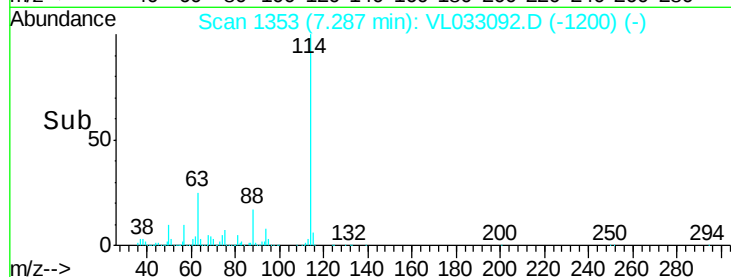
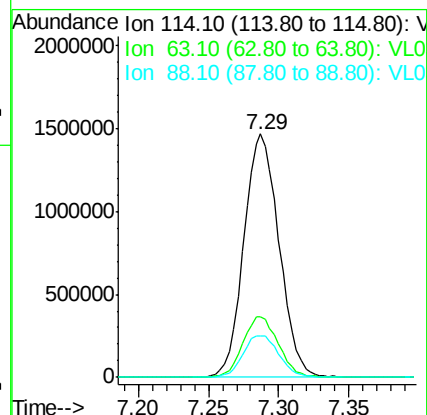
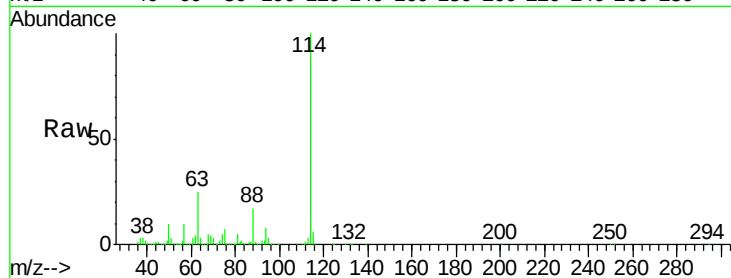
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033092.D
 Acq: 16 Jan 2019 14:59

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1A

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.1	30.1
88	17.7	14.0	21.0

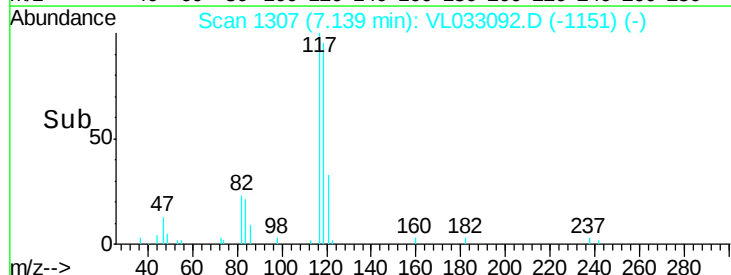
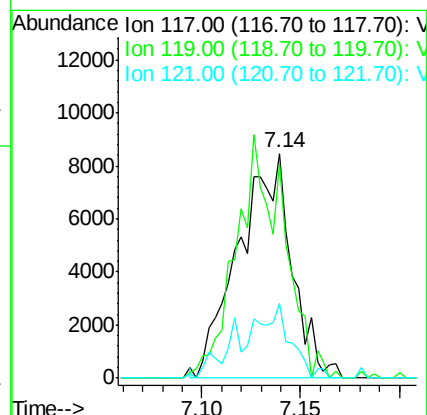
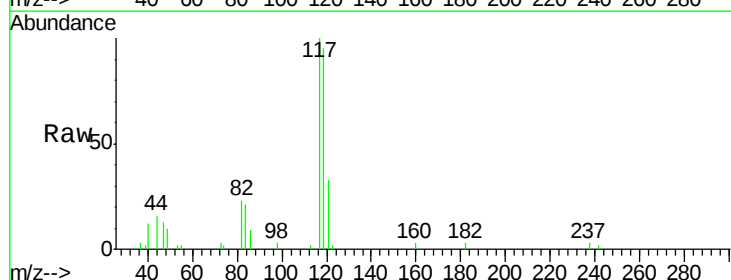
Manual Integrations
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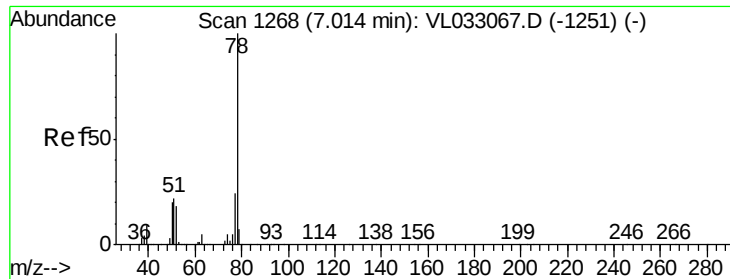
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#35
 Carbon Tetrachloride
 Concen: 0.072 ppbv m
 RT: 7.14 min Scan# 1307
 Delta R.T. -0.00 min
 Lab File: VL033092.D
 Acq: 16 Jan 2019 14:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.1	76.5	114.7
121	33.0	25.2	37.8





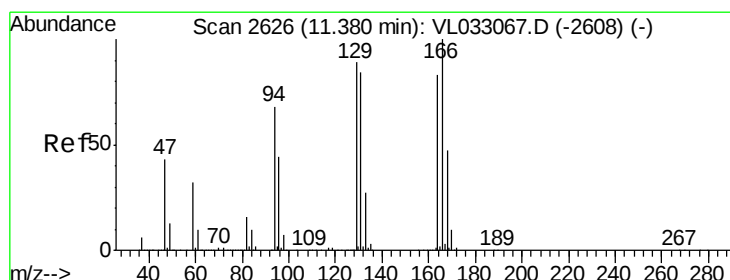
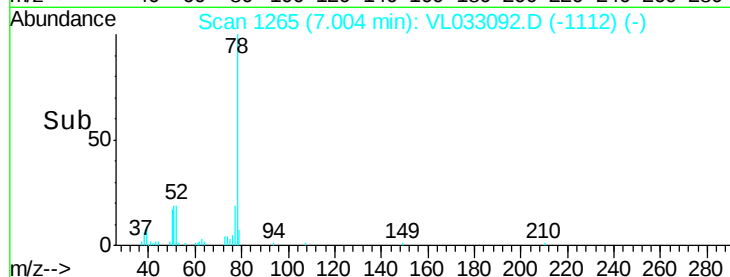
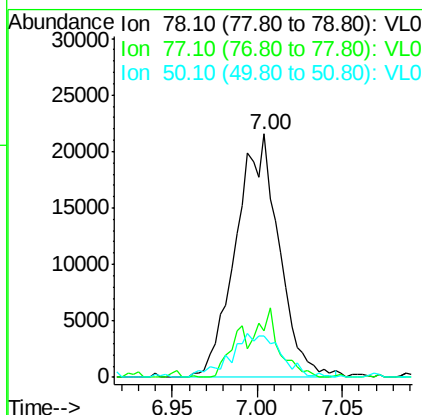
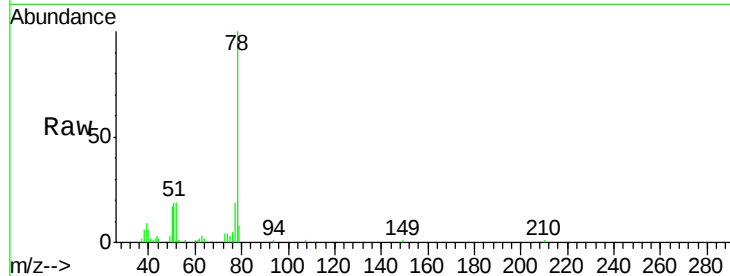
#36
Benzene
Concen: 0.181 ppbv m
RT: 7.00 min Scan# 1265
Delta R.T. -0.01 min
Lab File: VL033092.D
Acq: 16 Jan 2019 14:59

Instrument :
MSVOA_L
ClientSampleId :
IA1A

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.2	18.5	27.7
50	17.0	15.7	23.5

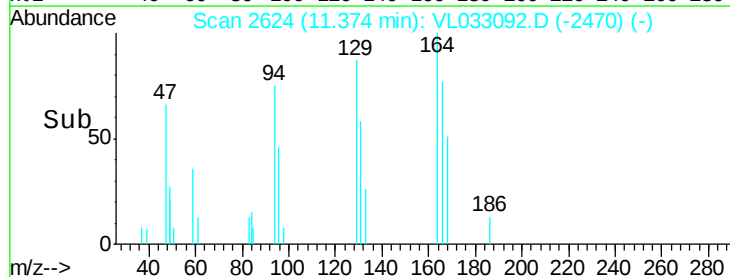
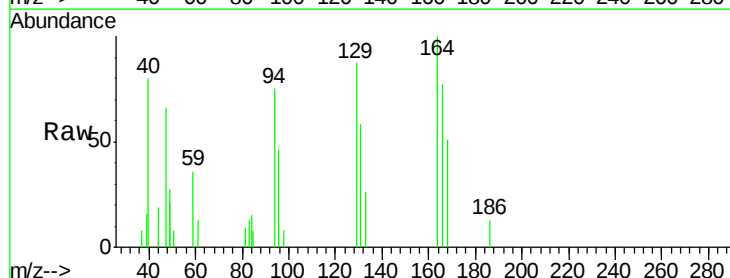
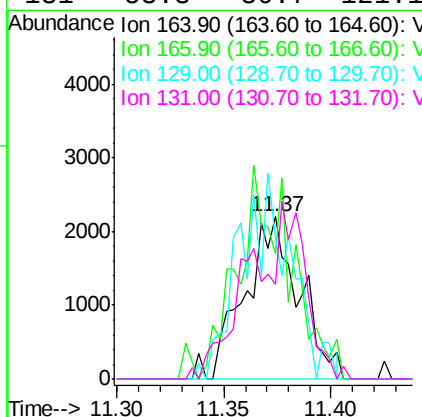
Manual Integrations
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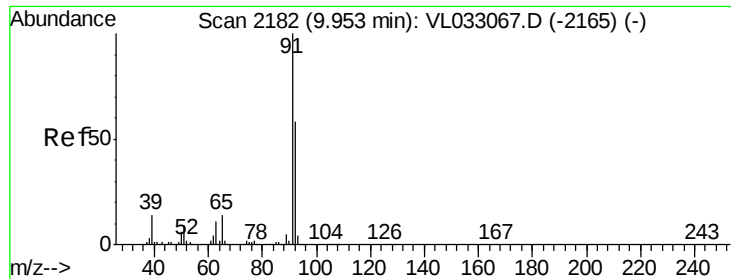
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#52
Tetrachloroethene
Concen: 0.053 ppbv m
RT: 11.37 min Scan# 2624
Delta R.T. -0.00 min
Lab File: VL033092.D
Acq: 16 Jan 2019 14:59

Tgt Ion	Ratio	Lower	Upper
164	100		
166	77.5	100.8	151.2#
129	86.6	84.6	126.8
131	58.3	80.7	121.1#





#53

Toluene

Concen: 3.998 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033092.D

Acq: 16 Jan 2019 14:59

Instrument :

MSVOA_L

ClientSampleId :

IA1A

Tot Ion: 91 Resp: 900779

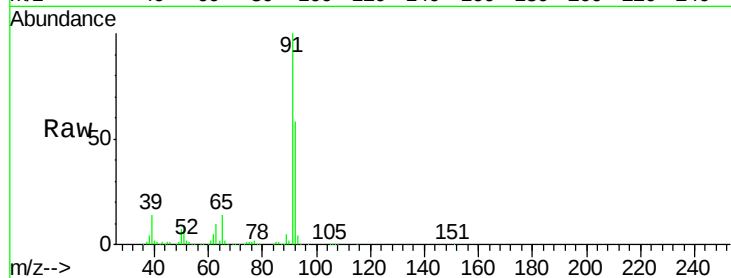
Ion Ratio Lower Upper

91 100

92 58.5 47.7 71.5

Manual Integrations
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0

9.94

500000

400000

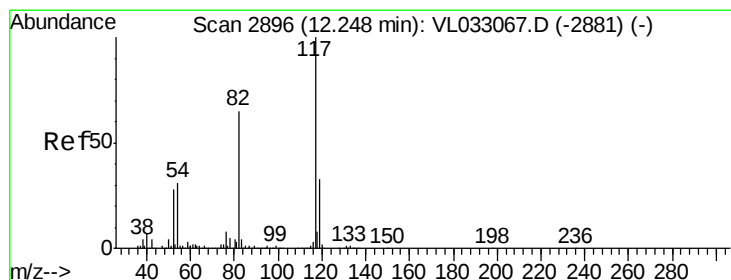
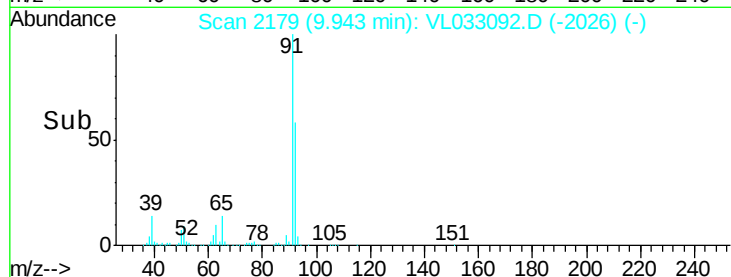
300000

200000

100000

0

Time--> 9.85 9.90 9.95 10.00



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033092.D

Acq: 16 Jan 2019 14:59

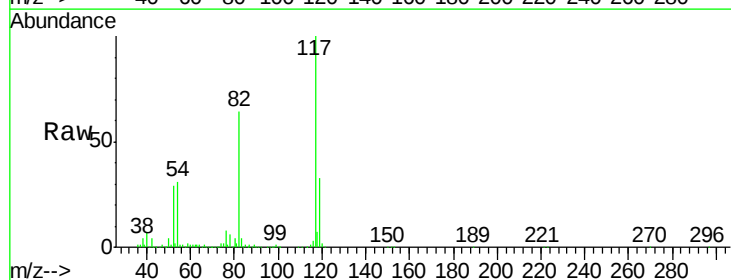
Tgt Ion: 117 Resp: 2287498

Ion Ratio Lower Upper

117 100

82 64.5 48.9 73.3

119 32.3 24.6 37.0



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

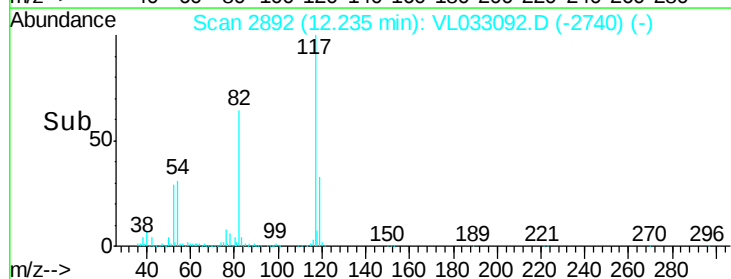
1500000

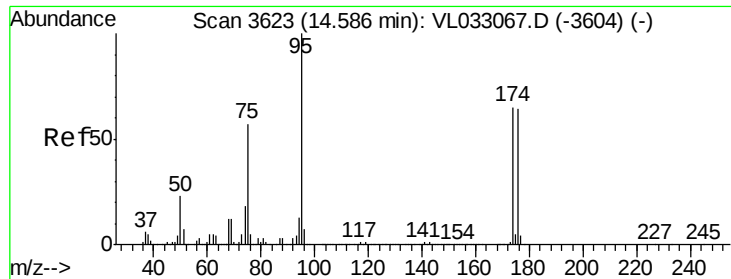
1000000

500000

0

Time--> 12.20 12.30





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.253 ppbv
 RT: 14.57 min Scan# 3619
 Delta R.T. -0.01 min
 Lab File: VL033092.D
 Acq: 16 Jan 2019 14:59

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1A

Tot Ion: 95 Resp: 1797793
 Ion Ratio Lower Upper
 95 100
 174 64.1 51.9 77.9
 175 4.7 3.9 5.9

Manual Integrations
 APPROVED

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