

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
 Data File : VL033093.D
 Acq On : 16 Jan 2019 15:41
 Operator : SY/AP
 Sample : K1130-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADUP

Manual Integrations
 APPROVED

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 1/17/2019 3:16:16 PM

Quant Time: Jan 17 03:06:08 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	1053675	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2501017	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	2267072	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1768669	10.18	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	40624m	0.207	ppbv	
3) Chlorodifluoromethane	3.01	51	72963m	0.612	ppbv	
4) Chloromethane	3.17	50	37320	0.546	ppbv	95
9) Propene	3.04	41	35088	0.787	ppbv	85
11) Trichlorofluoromethane	4.00	101	43902	0.203	ppbv	98
13) Ethanol	3.64	45	966505	54.395	ppbv	97
15) Acetone	3.90	43	738276	5.062	ppbv	100
20) Methylene Chloride	4.40	84	810392	13.329	ppbv	98
26) Hexane	5.78	57	1136674	9.792	ppbv #	43
35) Carbon Tetrachloride	7.14	117	15433m	0.072	ppbv	
36) Benzene	7.00	78	36445	0.178	ppbv #	91
52) Tetrachloroethene	11.36	164	4753m	0.066	ppbv	
53) Toluene	9.94	91	911050	4.150	ppbv	99

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

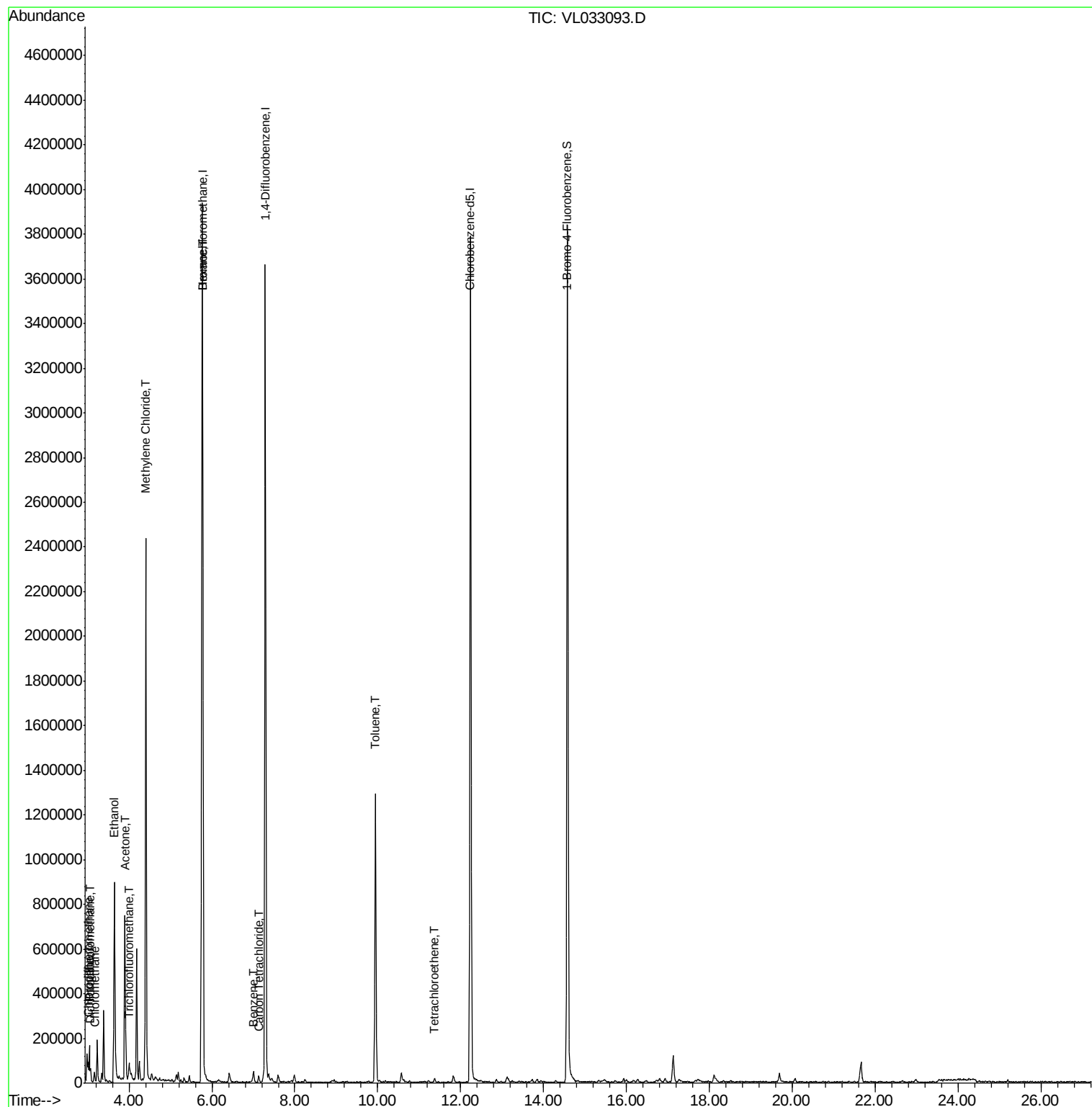
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL011619\
Data File : VL033093.D
Acq On : 16 Jan 2019 15:41
Operator : SY/AP
Sample : K1130-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

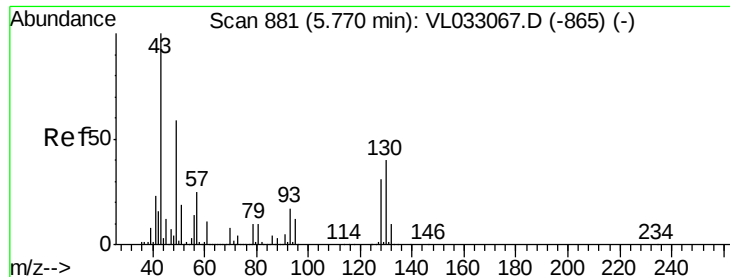
Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP

Manual Integrations
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Quant Time: Jan 17 03:06:08 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: VL033093.D

Acq: 16 Jan 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

IA1ADUP

Tot Ion: 49 Resp: 1053675

Ion Ratio Lower Upper

49 100

128 52.4 26.2 78.5

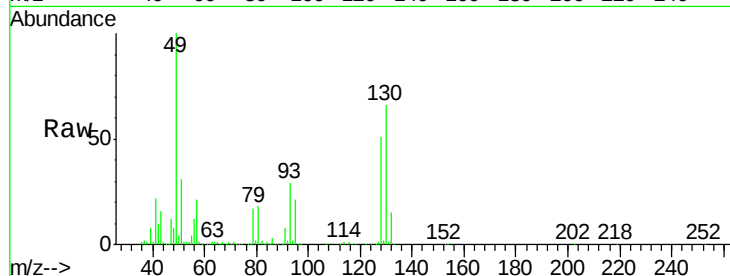
130 66.7 33.6 100.6

Manual Integrations

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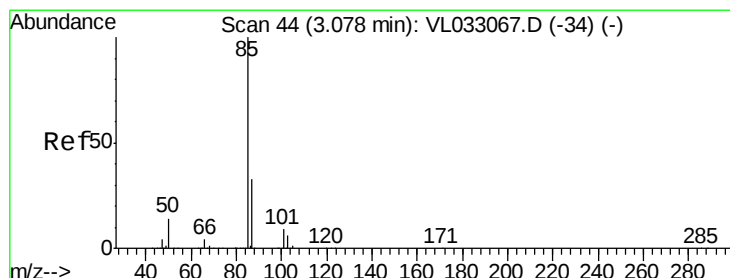
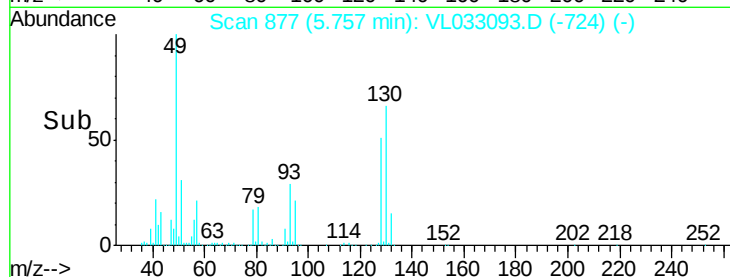
Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

5.76

Time-->



#2

Dichlorodifluoromethane

Concen: 0.207 ppbv m

RT: 3.08 min Scan# 43

Delta R.T. -0.00 min

Lab File: VL033093.D

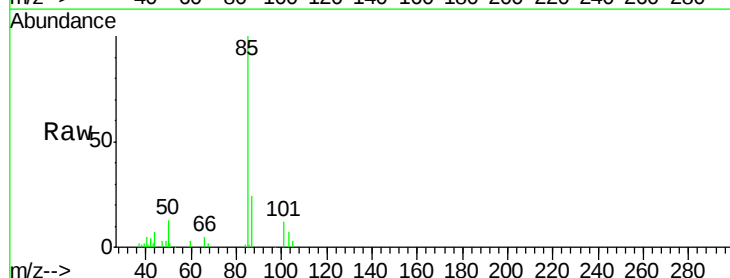
Acq: 16 Jan 2019 15:41

Tgt Ion: 85 Resp: 40624

Ion Ratio Lower Upper

85 100

87 23.9 26.3 39.5#

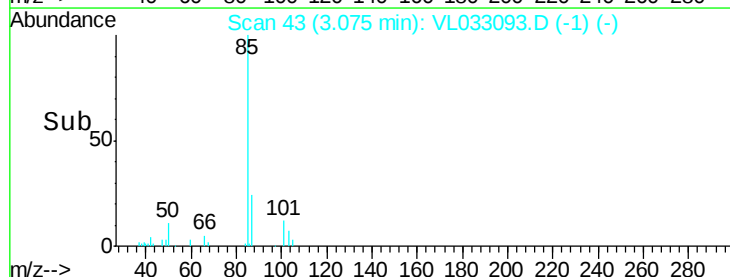


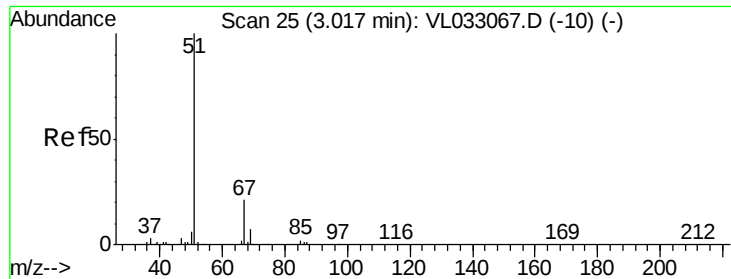
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

3.08

Time-->





#3

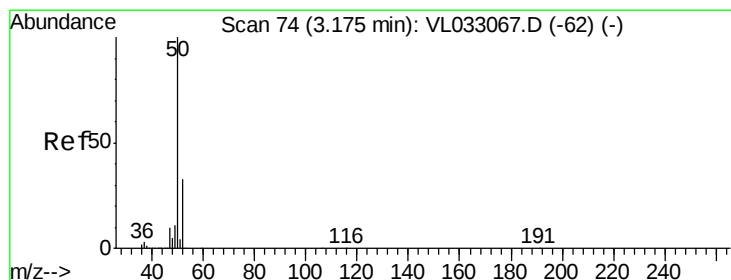
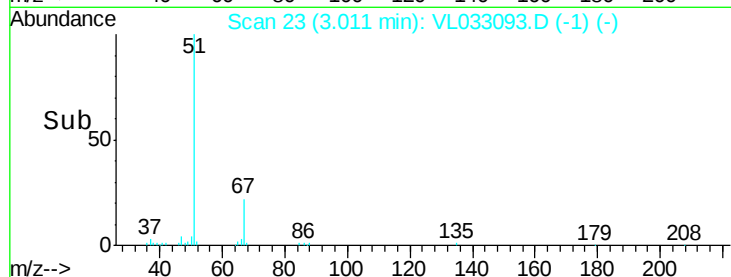
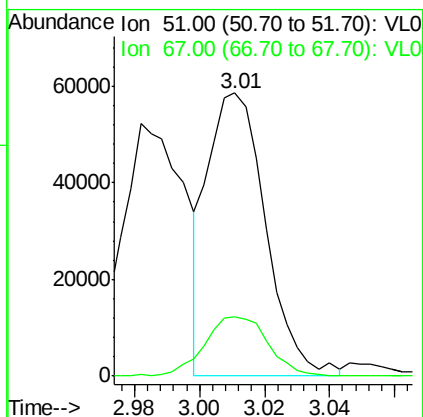
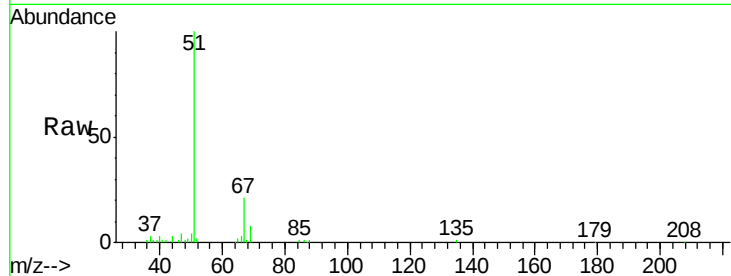
Chlorodifluoromethane
Concen: 0.612 ppbv
RT: 3.01 min Scan# 23
Delta R.T. -0.00 min
Lab File: VL033093.D
Acq: 16 Jan 2019 15:41

Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP

Tot Ion: 51 Resp: 72963
Ion Ratio Lower Upper
51 100
67 23.0 16.3 24.5

Manual Integrations
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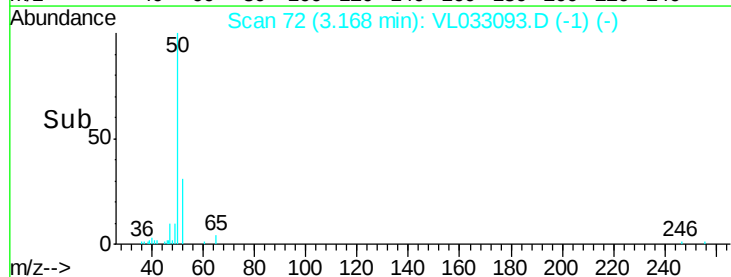
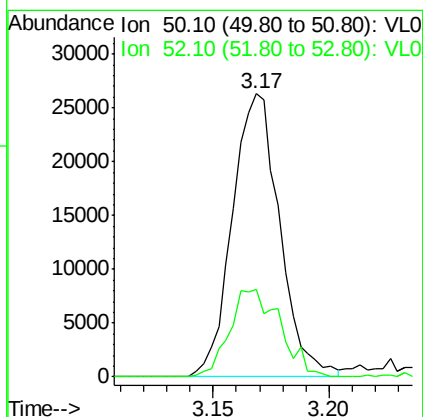
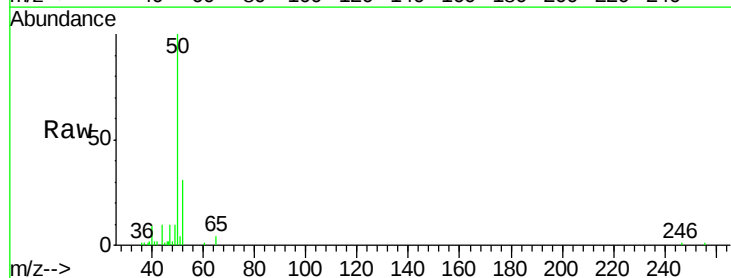
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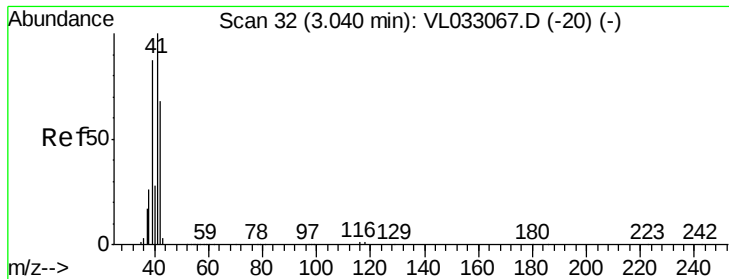


#4

Chloromethane
Concen: 0.546 ppbv
RT: 3.17 min Scan# 72
Delta R.T. -0.00 min
Lab File: VL033093.D
Acq: 16 Jan 2019 15:41

Tgt Ion: 50 Resp: 37320
Ion Ratio Lower Upper
50 100
52 30.8 26.9 40.3





#9

Propene

Concen: 0.787 ppbv

RT: 3.04 min Scan# 33

Delta R.T. 0.01 min

Lab File: VL033093.D

Acq: 16 Jan 2019 15:41

Instrument :

MSVOA_L

ClientSampled :

IA1ADUP

Tot Ion: 41 Resp: 35088

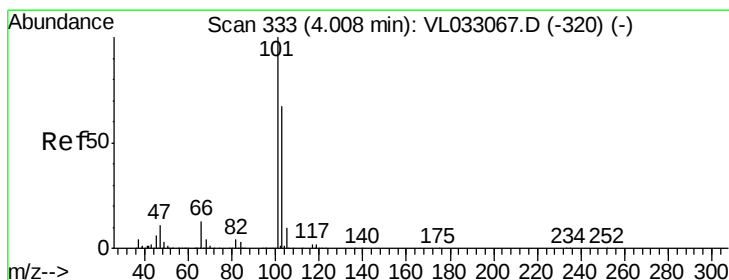
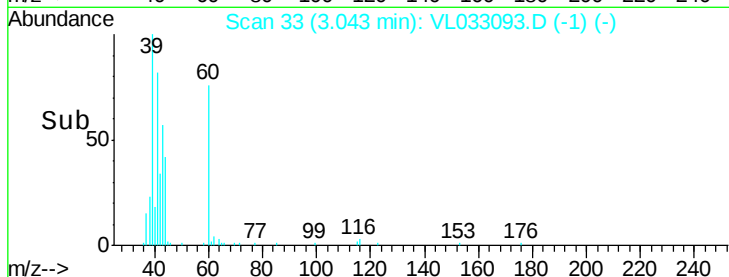
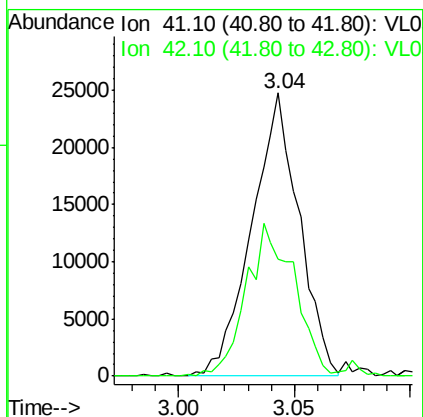
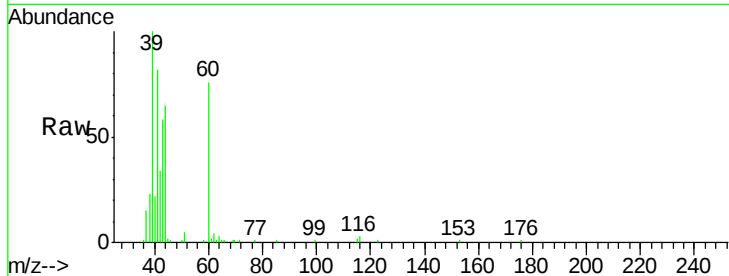
Ion Ratio Lower Upper

41 100

42 56.8 55.3 82.9

Manual Integrations
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#11

Trichlorofluoromethane

Concen: 0.203 ppbv

RT: 4.00 min Scan# 330

Delta R.T. -0.01 min

Lab File: VL033093.D

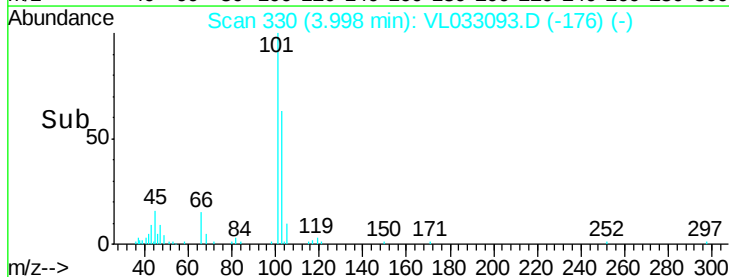
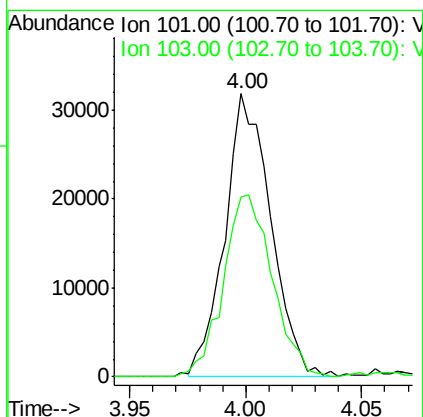
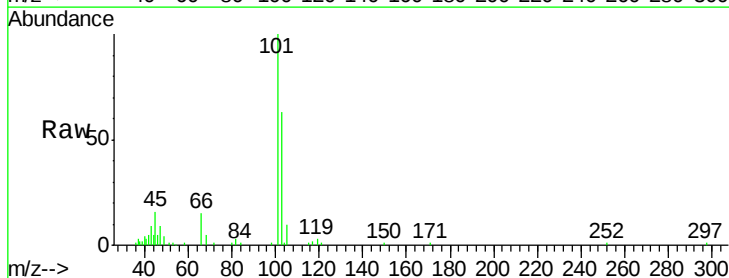
Acq: 16 Jan 2019 15:41

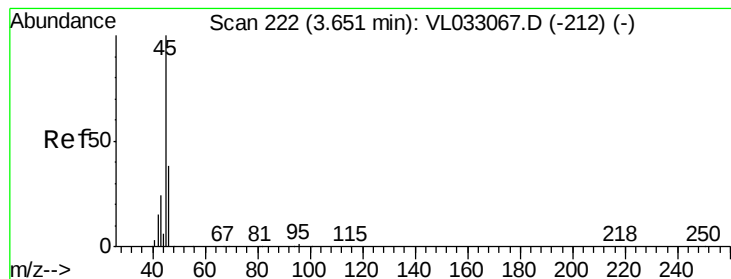
Tgt Ion: 101 Resp: 43902

Ion Ratio Lower Upper

101 100

103 63.4 51.7 77.5





#13

Ethanol

Concen: 54.395 ppbv

RT: 3.64 min Scan# 220

Delta R.T. -0.01 min

Lab File: VL033093.D

Acq: 16 Jan 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

IA1ADUP

Tot Ion: 45 Resp: 966505

Ion Ratio Lower Upper

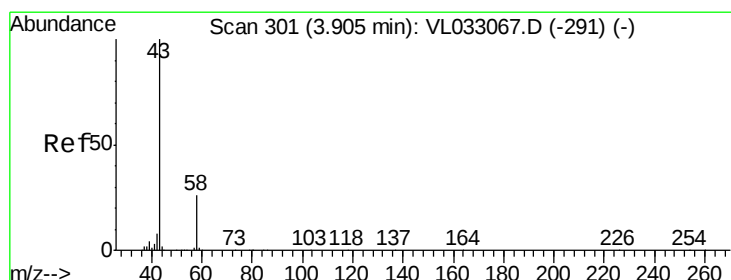
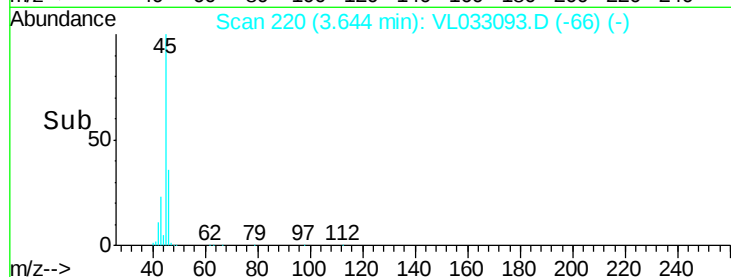
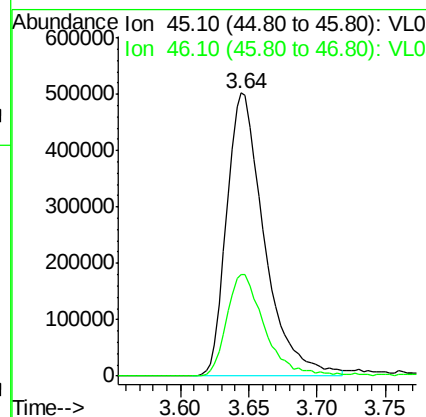
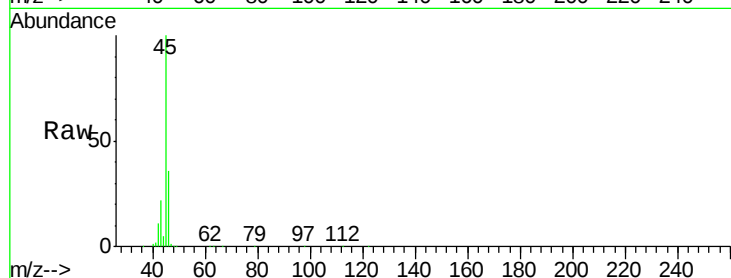
45 100

46 36.3 13.8 55.2

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#15

Acetone

Concen: 5.062 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033093.D

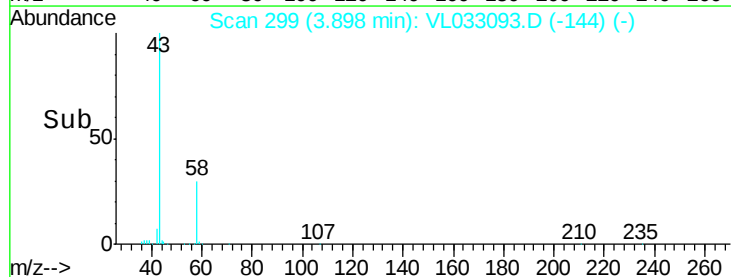
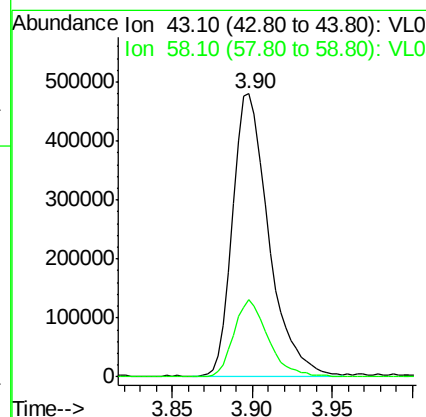
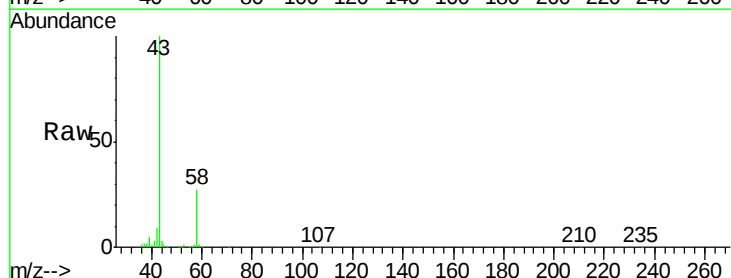
Acq: 16 Jan 2019 15:41

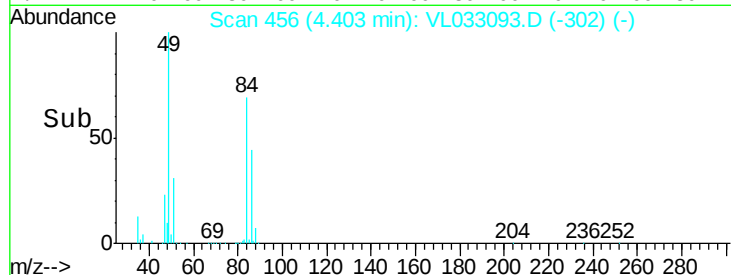
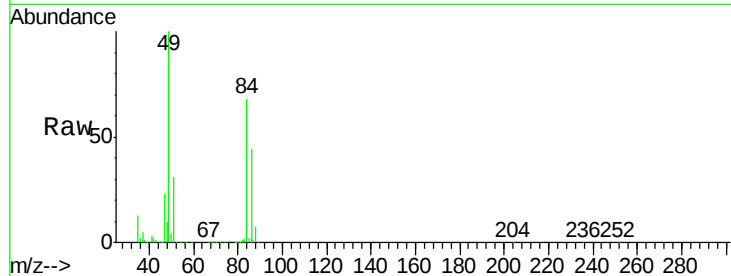
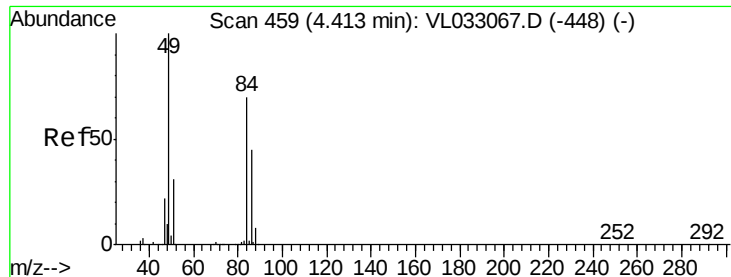
Tgt Ion: 43 Resp: 738276

Ion Ratio Lower Upper

43 100

58 26.2 21.1 31.7





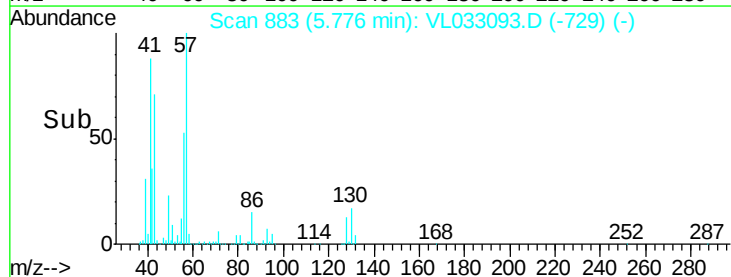
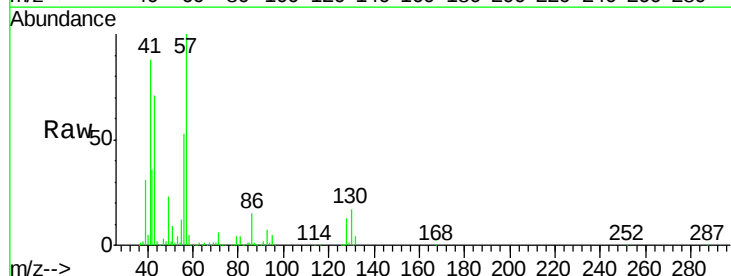
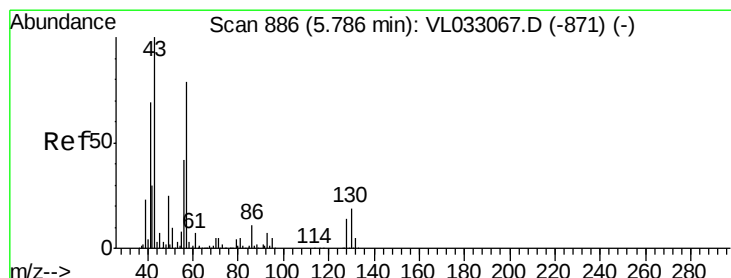
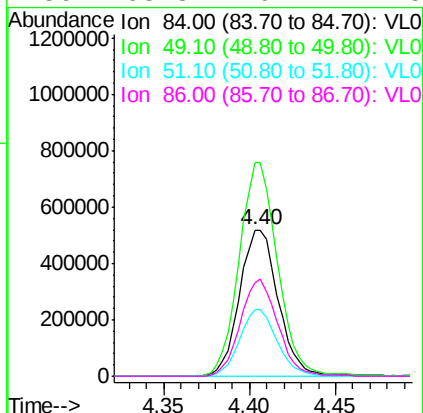
#20
Methvlene Chloride
Concen: 13.329 ppbv
RT: 4.40 min Scan# 456
Delta R.T. -0.01 min
Lab File: VL033093.D
Acq: 16 Jan 2019 15:41

Tot Ion	Ratio	Lower	Upper
84	100		
49	146.0	115.8	173.6
51	45.9	35.7	53.5
86	63.8	49.7	74.5

Instrument :
MSVOA_L
ClientSampleId :
IA1ADUP

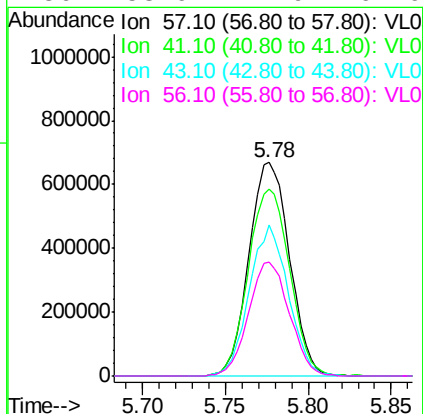
Manual Integrations
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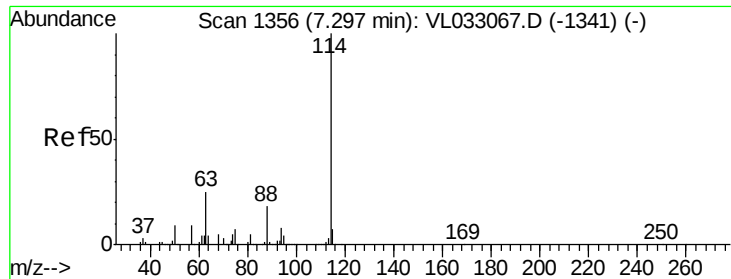
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#26
Hexane
Concen: 9.792 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.01 min
Lab File: VL033093.D
Acq: 16 Jan 2019 15:41

Tgt Ion	Ratio	Lower	Upper
57	100		
41	90.2	70.8	106.2
43	68.0	171.8	257.6#
56	53.9	41.9	62.9





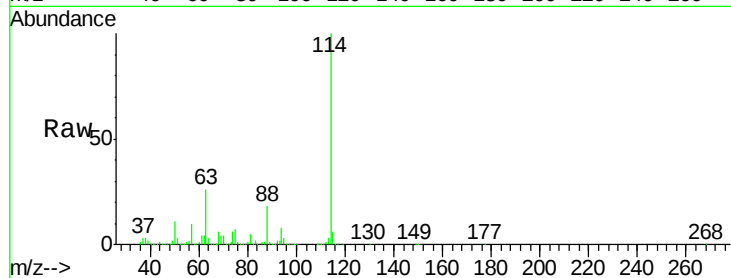
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1ADUP

Tot Ion	Ratio	Lower	Upper
114	100		
63	25.1	20.1	30.1
88	17.8	14.0	21.0

Manual Integrations
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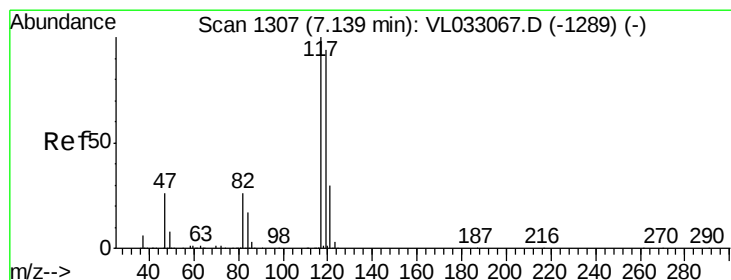
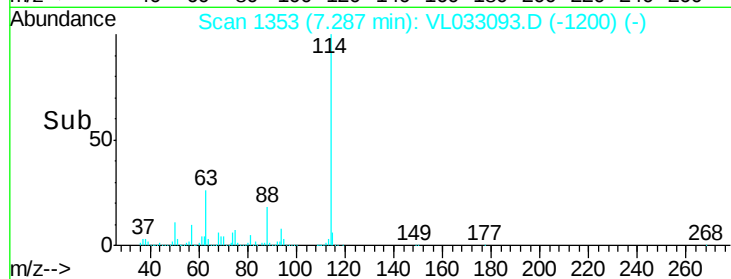
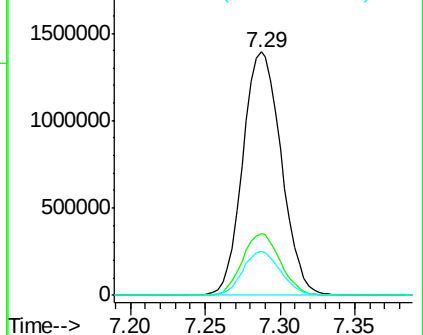
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Abundance Ion 114.10 (113.80 to 114.80): V

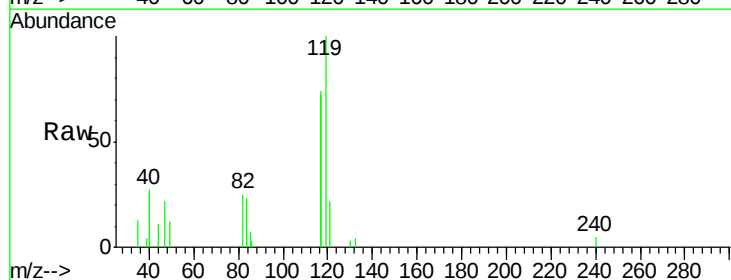
Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#35
 Carbon Tetrachloride
 Concen: 0.072 ppbv m
 RT: 7.14 min Scan# 1308
 Delta R.T. 0.00 min
 Lab File: VL033093.D
 Acq: 16 Jan 2019 15:41

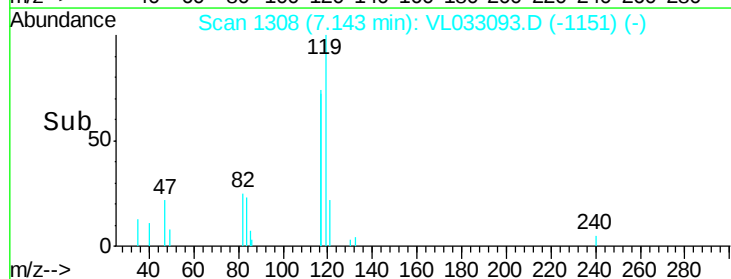
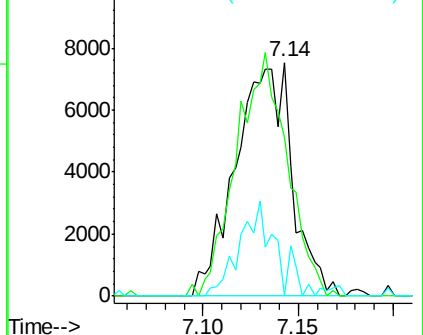
Tgt Ion	Ratio	Lower	Upper
117	100		
119	135.0	76.5	114.7#
121	0.0	25.2	37.8#

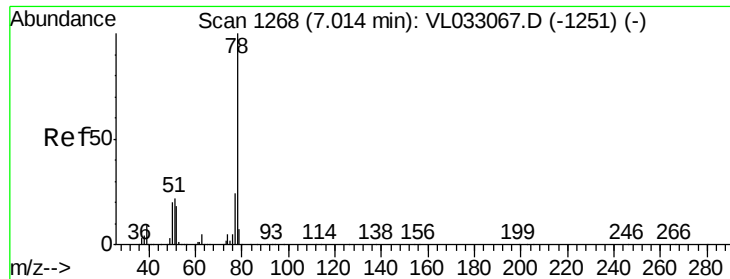


Abundance Ion 117.00 (116.70 to 117.70): V

Ion 119.00 (118.70 to 119.70): V

Ion 121.00 (120.70 to 121.70): V





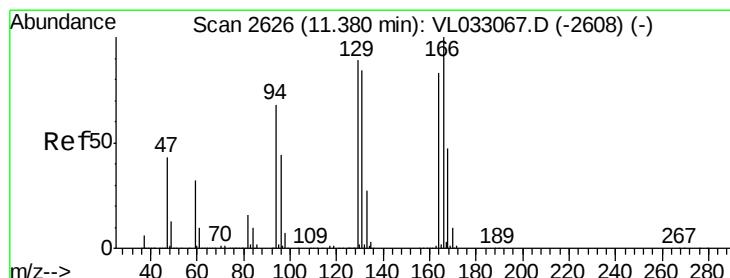
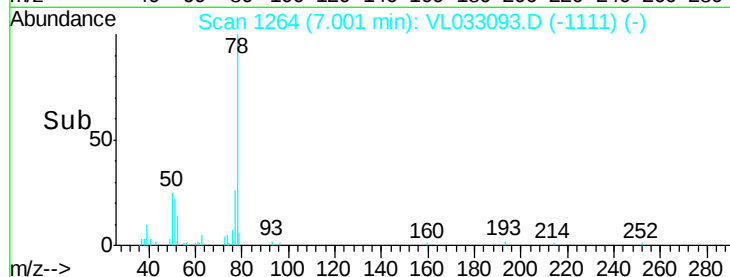
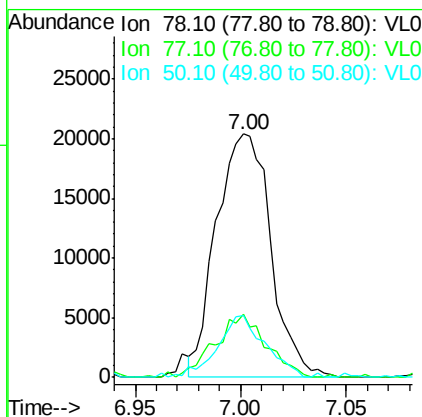
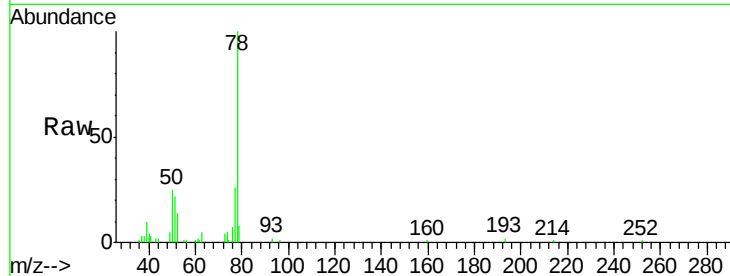
#36
Benzene
Concen: 0.178 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VL033093.D
Acq: 16 Jan 2019 15:41

Instrument :
MSVOA_L
ClientSampled :
IA1ADUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	25.8	18.5	27.7
50	25.2	15.7	23.5#

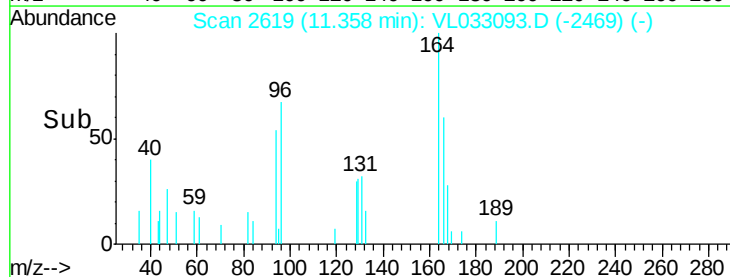
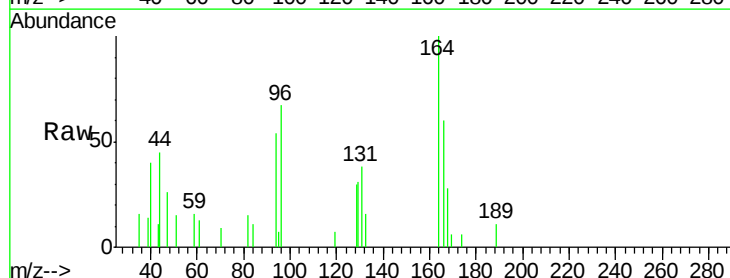
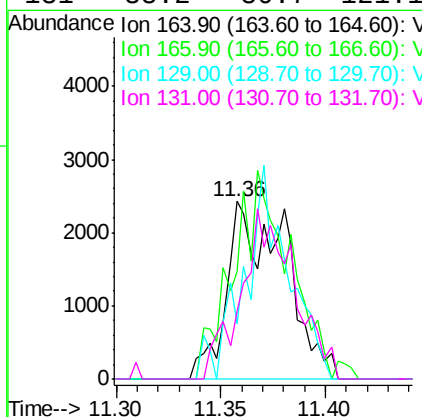
Manual Integrations
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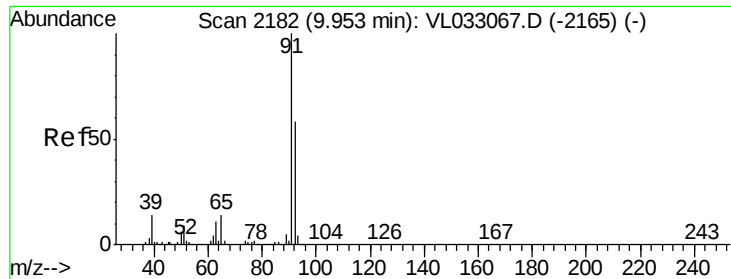
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#52
Tetrachloroethene
Concen: 0.066 ppbv m
RT: 11.36 min Scan# 2619
Delta R.T. -0.02 min
Lab File: VL033093.D
Acq: 16 Jan 2019 15:41

Tgt Ion	Ratio	Lower	Upper
164	100		
166	60.5	100.8	151.2#
129	30.9	84.6	126.8#
131	38.2	80.7	121.1#





#53

Toluene

Concen: 4.150 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033093.D

Acq: 16 Jan 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

IA1ADUP

Tot Ion: 91 Resp: 911050

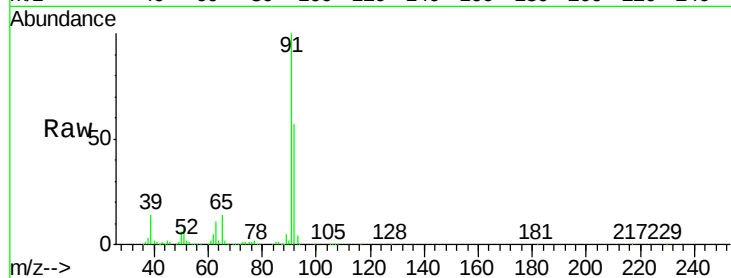
Ion Ratio Lower Upper

91 100

92 59.0 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

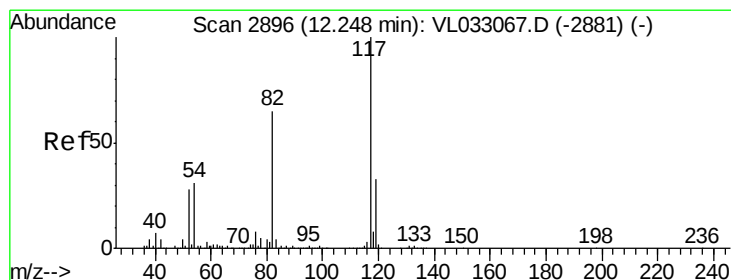
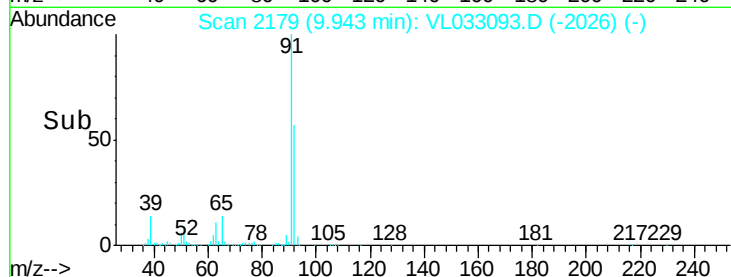
300000

200000

100000

0

Time--> 9.85 9.90 9.95 10.00



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2893

Delta R.T. -0.01 min

Lab File: VL033093.D

Acq: 16 Jan 2019 15:41

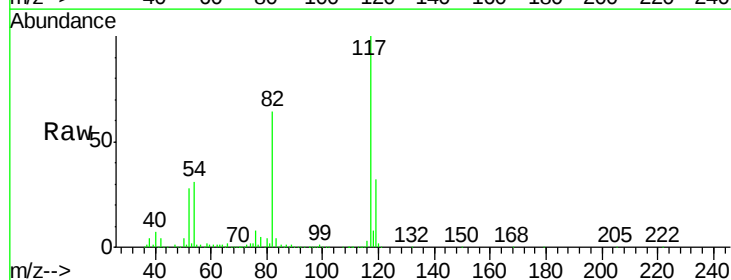
Tgt Ion: 117 Resp: 2267072

Ion Ratio Lower Upper

117 100

82 64.7 48.9 73.3

119 32.9 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

12.24

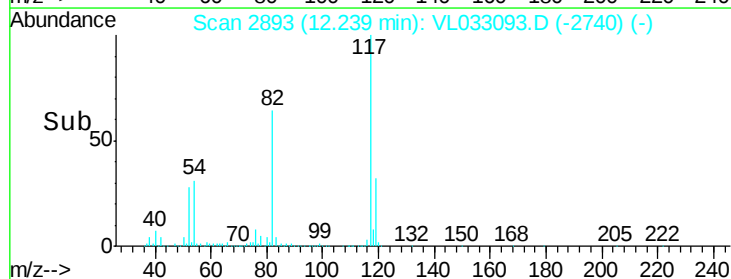
1500000

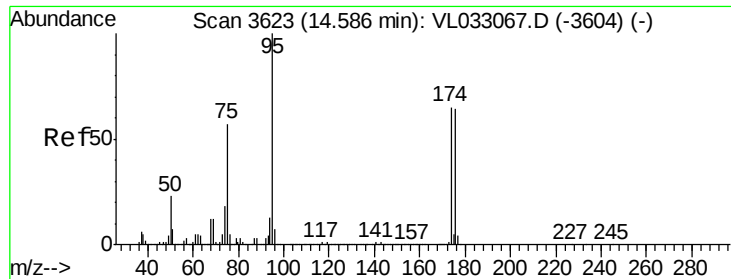
1000000

500000

0

Time--> 12.20 12.30





#68

1-Bromo-4-Fluorobenzene

Concen: 10.177 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033093.D

Acq: 16 Jan 2019 15:41

Instrument :

MSVOA_L

ClientSampleId :

IA1ADUP

Tot Ion: 95 Resp: 1768669

Ion Ratio Lower Upper

95 100

174 64.5 51.9 77.9

175 4.8 3.9 5.9

Manual Integrations

APPROVED

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