

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101118\
 Data File : VL032615.D
 Acq On : 11 Oct 2018 22:07
 Operator : SY/AP
 Sample : J5370-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 Q2-SVI-100518

Manual Integrations
 APPROVED

MMDadoda
 10/12/2018 2:07:39 PM

Quant Time: Oct 12 12:13:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct 08 2018
 QLast Update : Mon Oct 01 06:49:26 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1412731	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.33	114	3146493	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.27	117	3334727	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.61	95	2356140	9.37	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.09	85	31991	0.245	ppbv	98
3) Chlorodifluoromethane	3.03	51	26082m	0.222	ppbv	
4) Chloromethane	3.18	50	45029	0.657	ppbv	89
9) Propene	3.05	41	6063115	118.948	ppbv	96
10) Heptane	8.27	43	170810	0.914	ppbv	92
11) Trichlorofluoromethane	4.03	101	26078m	0.168	ppbv	
13) Ethanol	3.68	45	535900	34.977	ppbv	98
15) Acetone	3.92	43	18905302	152.454	ppbv #	66
17) tert-Butyl alcohol	4.39	59	862780	55.367	ppbv #	100
19) Isopropyl Alcohol	4.06	45	231844	2.684	ppbv #	93
20) Methylene Chloride	4.44	84	174787	2.911	ppbv	98
26) Hexane	5.80	57	389001	2.862	ppbv #	1
27) Carbon Disulfide	4.64	76	638241	4.368	ppbv	100
34) 2-Butanone	5.35	43	14151374	75.525	ppbv #	89
35) Carbon Tetrachloride	7.16	117	9053m	0.041	ppbv	
36) Benzene	7.04	78	4328019	17.020	ppbv	99
51) 2-Hexanone	10.29	43	3698530	15.184	ppbv #	97
52) Tetrachloroethene	11.41	164	10382m	0.117	ppbv	
53) Toluene	9.98	91	304072m	0.981	ppbv	
58) Ethyl Benzene	12.90	91	43568m	0.108	ppbv	
59) m/p-Xylene	13.15	91	80371m	0.223	ppbv	

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

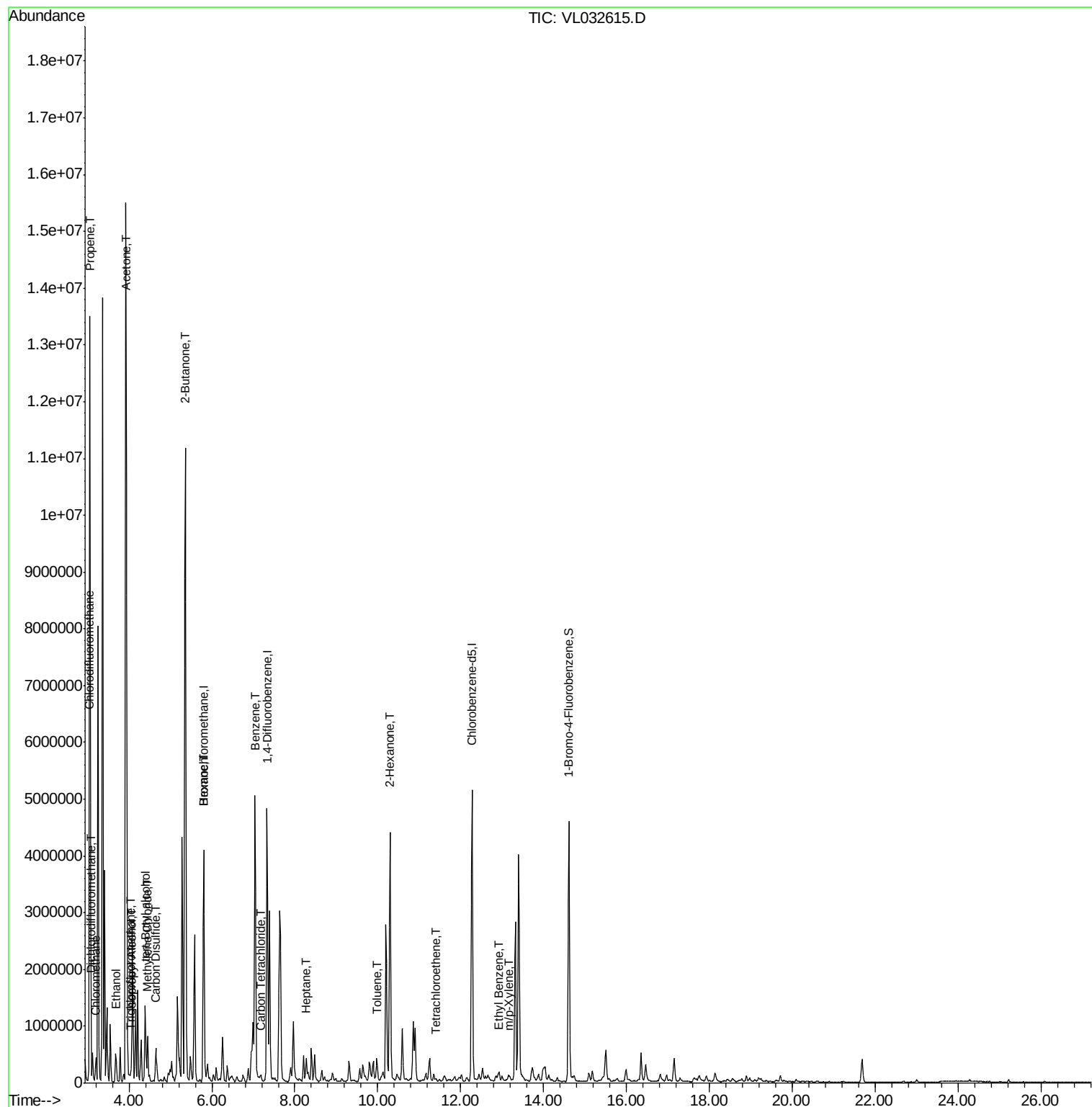
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101118\
Data File : VL032615.D
Acq On : 11 Oct 2018 22:07
Operator : SY/AP
Sample : J5370-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

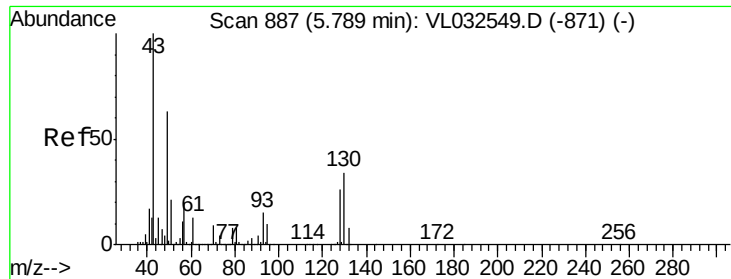
Instrument :
MSVOA_L
ClientSampleId :
Q2-SVI-100518

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Quant Time: Oct 12 12:13:53 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL092418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Oct
QLast Update : Mon Oct 01 06:49:26 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.80 min Scan# 891

Delta R.T. -0.01 min

Lab File: VL032615.D

Acq: 11 Oct 2018 22:07

Instrument :

MSVOA_L

ClientSampleId :

Q2-SVI-100518

Tot Ion: 49 Resp: 1412731

Ion Ratio Lower Upper

49 100

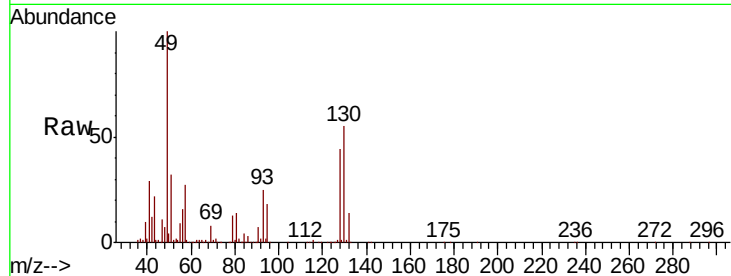
128 44.0 20.7 62.1

130 55.4 26.6 79.7

Manual Integrations
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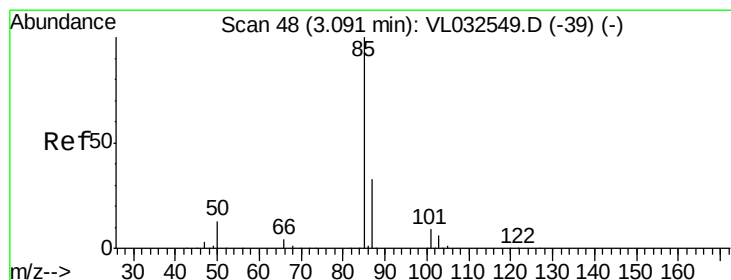
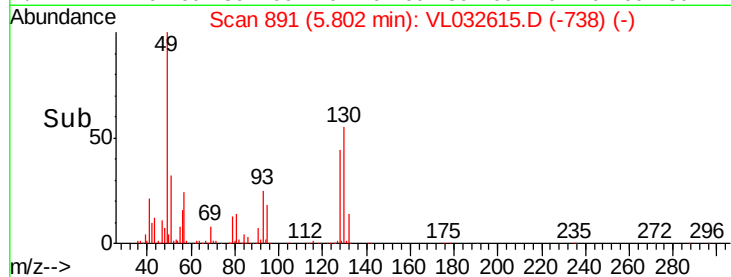
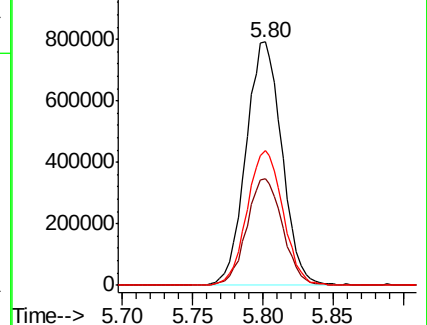
10/12/2018 2:07:39 PM



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: 0.245 ppbv

RT: 3.09 min Scan# 48

Delta R.T. -0.02 min

Lab File: VL032615.D

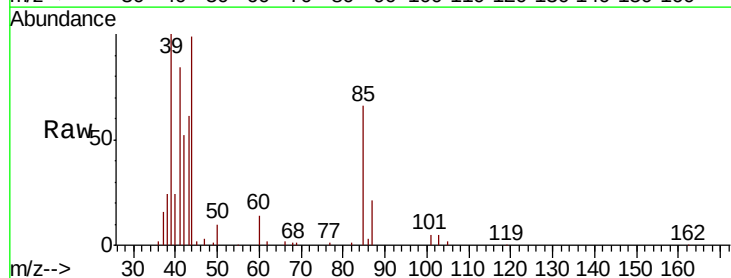
Acq: 11 Oct 2018 22:07

Tgt Ion: 85 Resp: 31991

Ion Ratio Lower Upper

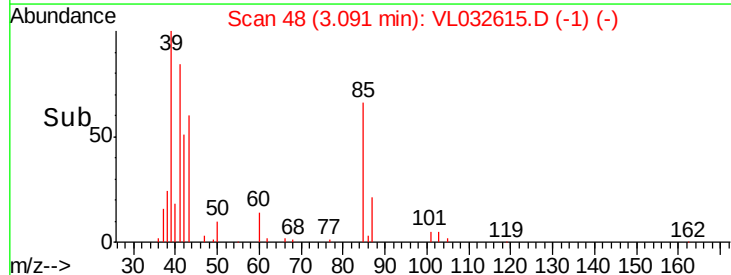
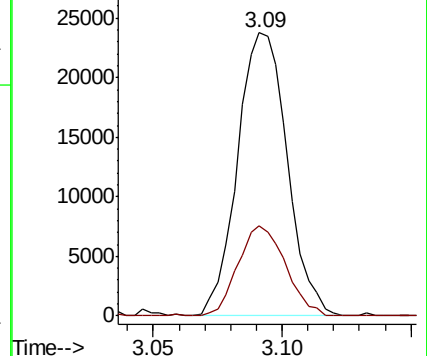
85 100

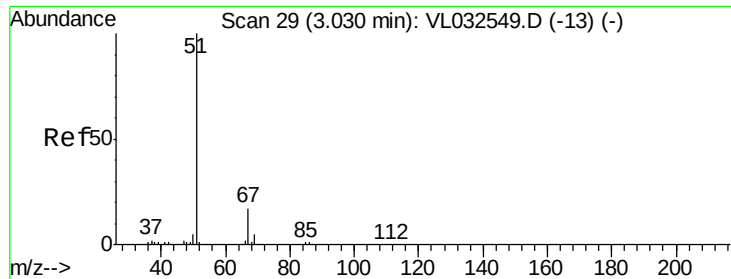
87 31.6 26.2 39.4



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





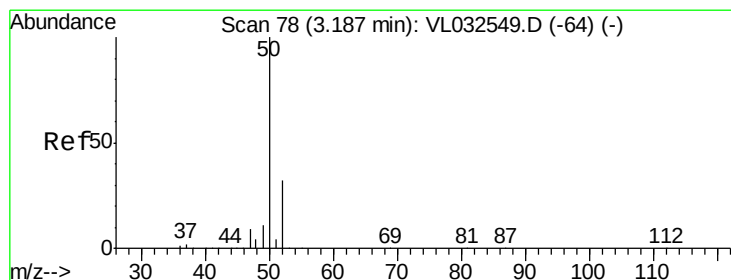
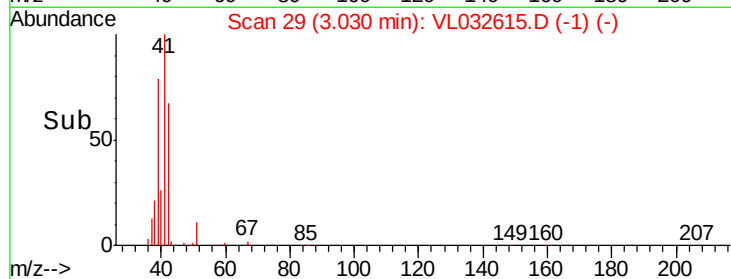
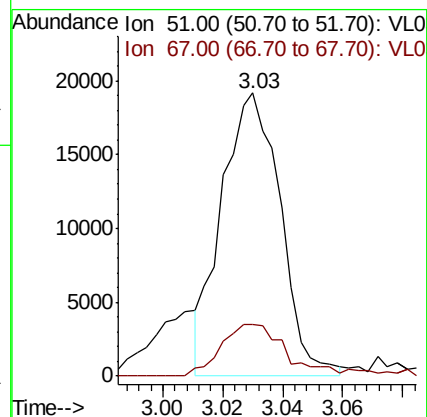
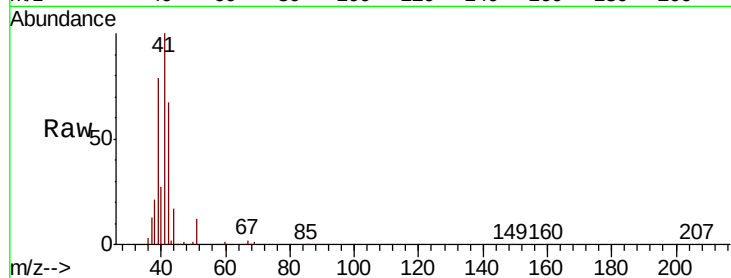
#3
Chlorodifluoromethane
Concen: 0.222 ppbv
RT: 3.03 min Scan# 29
Delta R.T. -0.01 min
Lab File: VL032615.D
Acq: 11 Oct 2018 22:07

Instrument :
MSVOA_L
ClientSampleId :
Q2-SVI-100518

Tot Ion: 51 Resp: 26082
Ion Ratio Lower Upper
51 100
67 21.6 13.8 20.8#

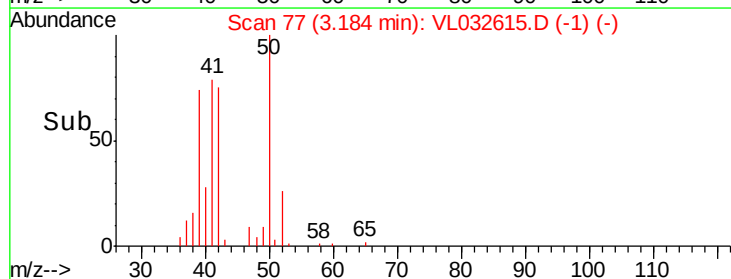
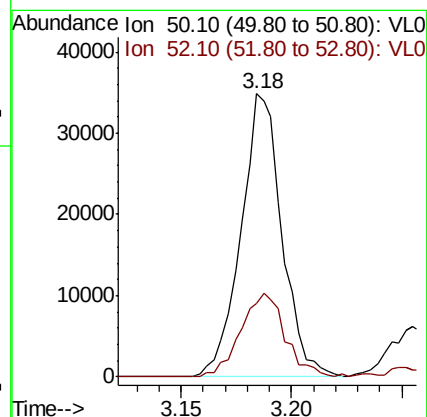
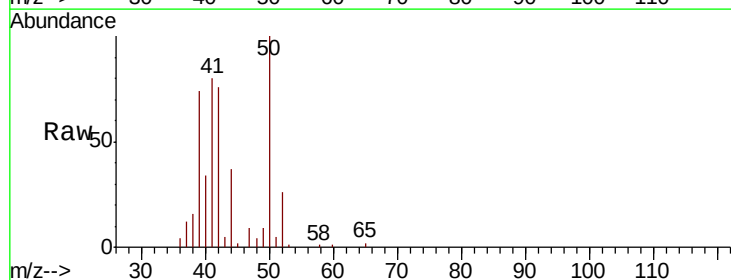
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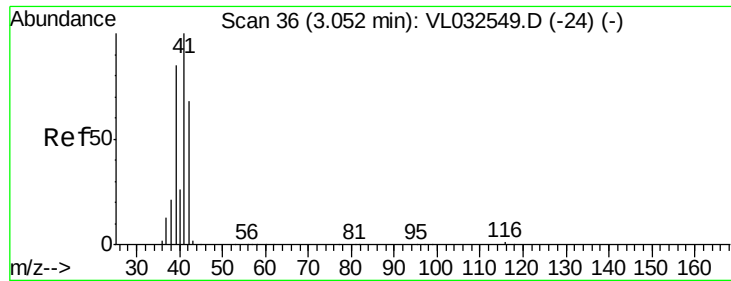
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#4
Chloromethane
Concen: 0.657 ppbv
RT: 3.18 min Scan# 77
Delta R.T. -0.02 min
Lab File: VL032615.D
Acq: 11 Oct 2018 22:07

Tgt Ion: 50 Resp: 45029
Ion Ratio Lower Upper
50 100
52 26.1 25.6 38.4





#9

Propene

Concen: 118.948 ppbv

RT: 3.05 min Scan# 36

Delta R.T. -0.01 min

Lab File: VL032615.D

Acq: 11 Oct 2018 22:07

Instrument :

MSVOA_L

ClientSampleId :

Q2-SVI-100518

Tot Ion: 41 Resp: 6063115

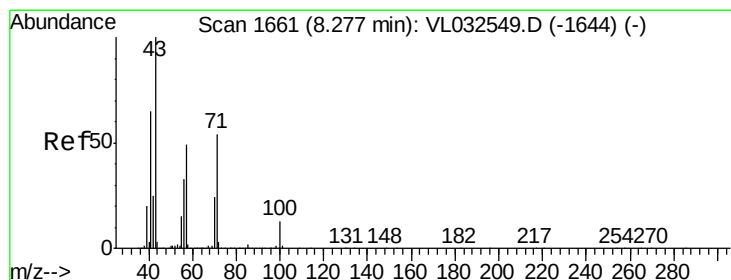
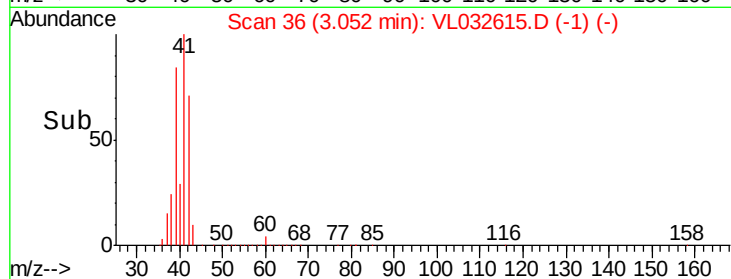
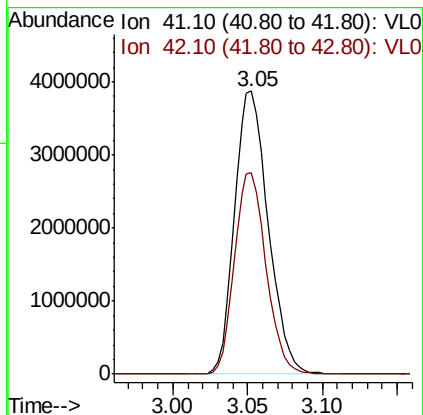
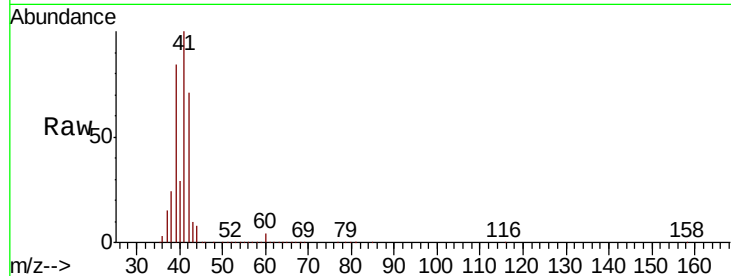
Ion Ratio Lower Upper

41 100

42 67.1 56.6 84.8

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#10

Heptane

Concen: 0.914 ppbv

RT: 8.27 min Scan# 1660

Delta R.T. -0.02 min

Lab File: VL032615.D

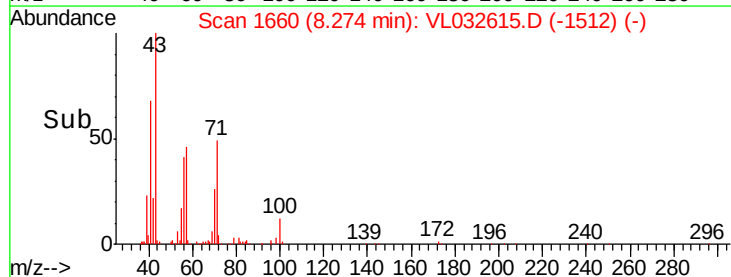
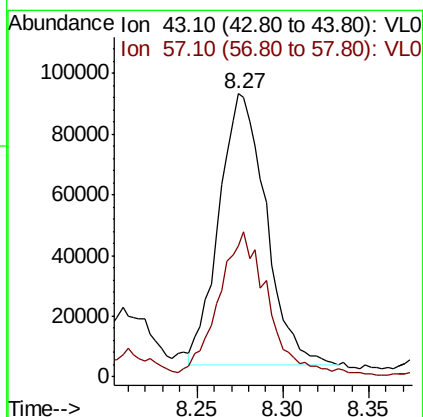
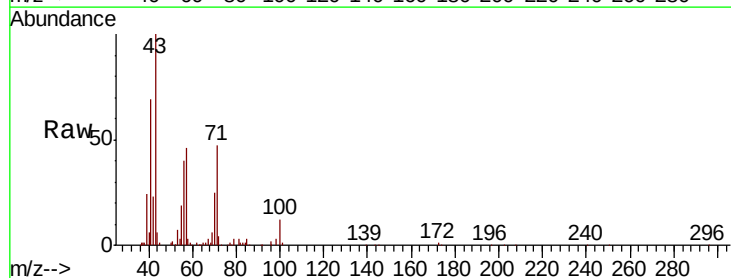
Acq: 11 Oct 2018 22:07

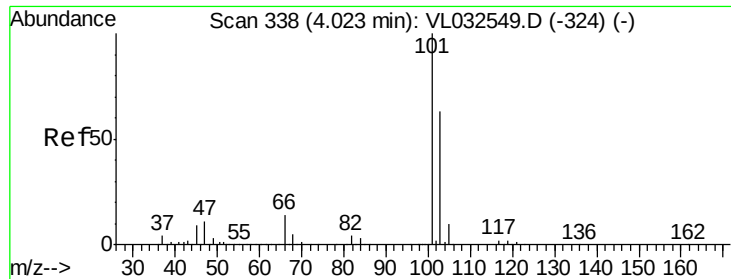
Tgt Ion: 43 Resp: 170810

Ion Ratio Lower Upper

43 100

57 54.9 39.6 59.4





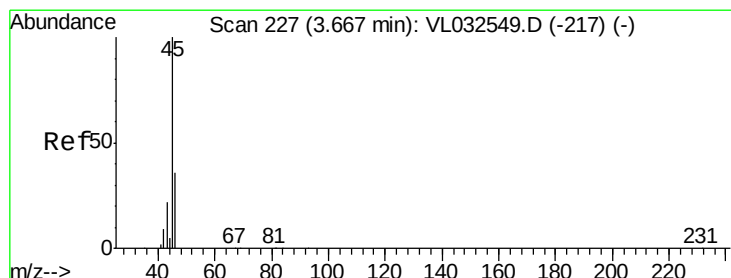
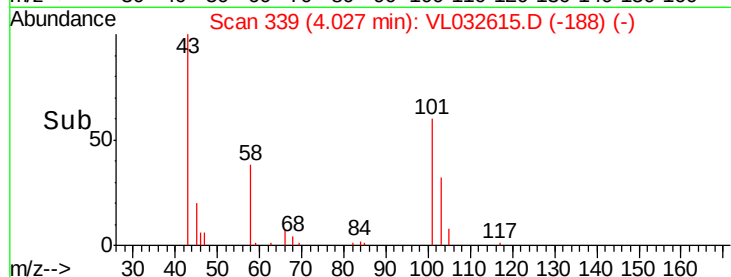
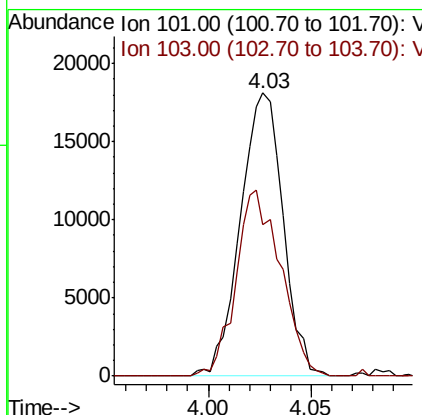
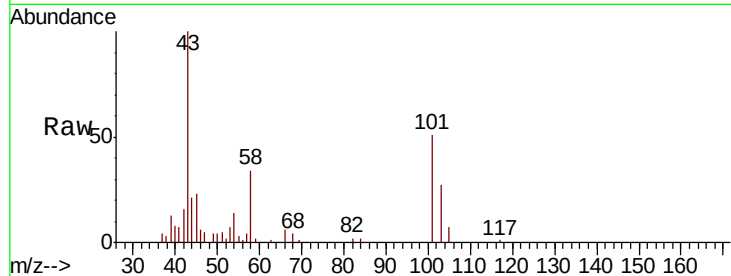
#11
Trichlorofluoromethane
Concen: 0.168 ppbv m
RT: 4.03 min Scan# 339
Delta R.T. -0.01 min
Lab File: VL032615.D
Acq: 11 Oct 2018 22:07

Instrument :
MSVOA_L
ClientSampleId :
Q2-SVI-100518

Tot Ion:101 Resp: 26078
Ion Ratio Lower Upper
101 100
103 53.4 52.8 79.2

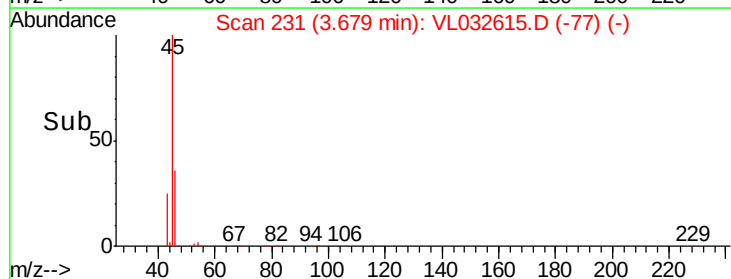
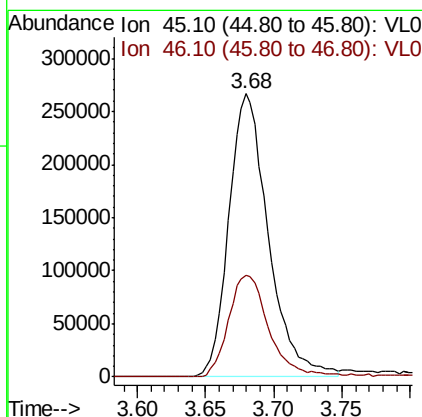
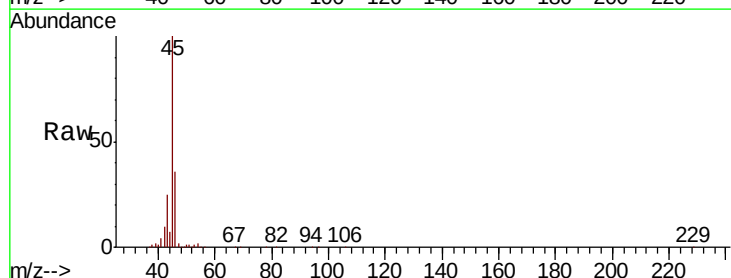
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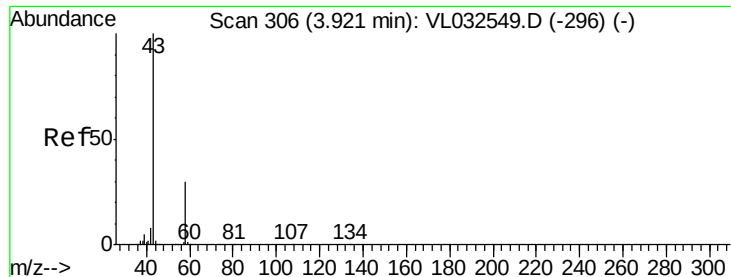
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#13
Ethanol
Concen: 34.977 ppbv
RT: 3.68 min Scan# 231
Delta R.T. -0.01 min
Lab File: VL032615.D
Acq: 11 Oct 2018 22:07

Tgt Ion: 45 Resp: 535900
Ion Ratio Lower Upper
45 100
46 36.9 14.2 56.8





#15

Acetone

Concen: 152.454 ppbv

RT: 3.92 min Scan# 307

Delta R.T. -0.01 min

Lab File: VL032615.D

Acq: 11 Oct 2018 22:07

Instrument :

MSVOA_L

ClientSampleId :

Q2-SVI-100518

Tot Ion: 43 Resp:18905302

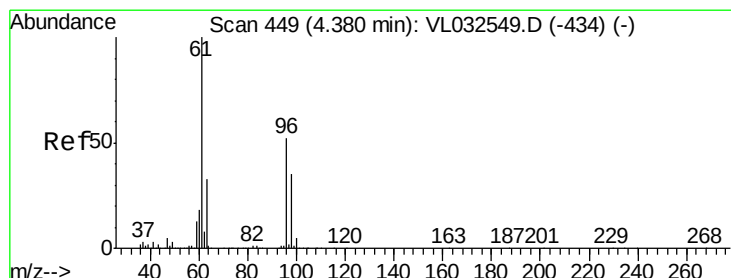
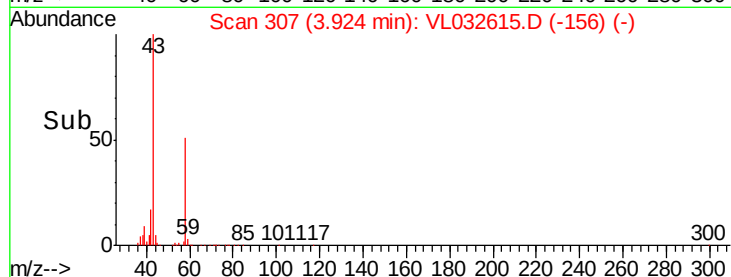
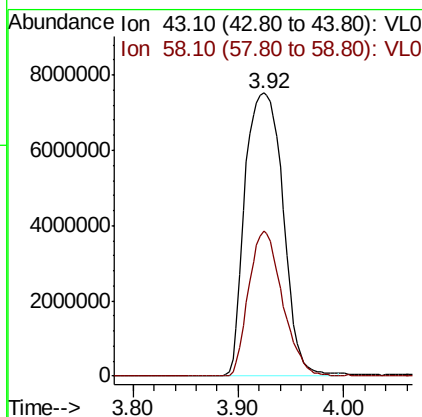
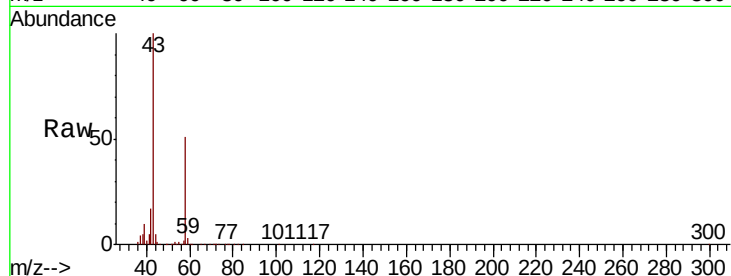
Ion Ratio Lower Upper

43 100

58 46.0 22.6 33.8#

Manual Integrations
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#17

tert-Butyl alcohol

Concen: 55.367 ppbv

RT: 4.39 min Scan# 451

Delta R.T. -0.02 min

Lab File: VL032615.D

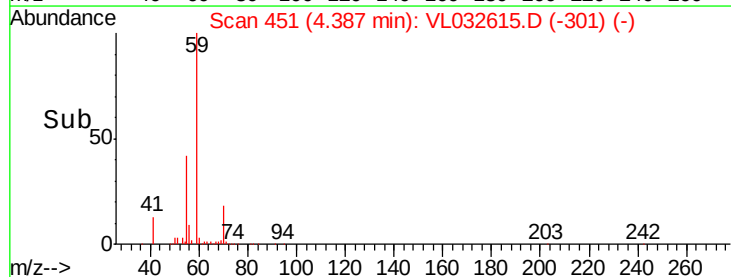
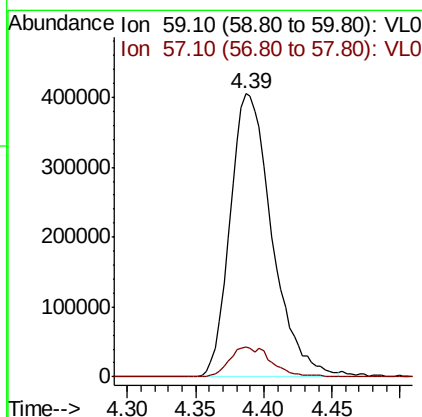
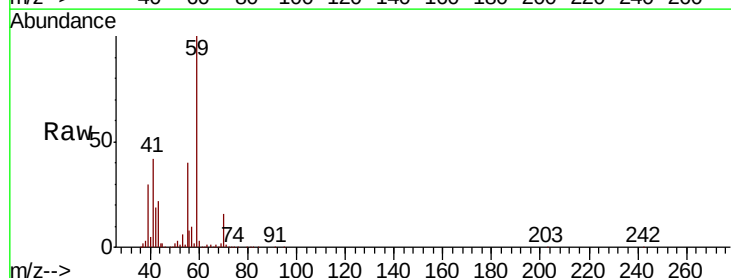
Acq: 11 Oct 2018 22:07

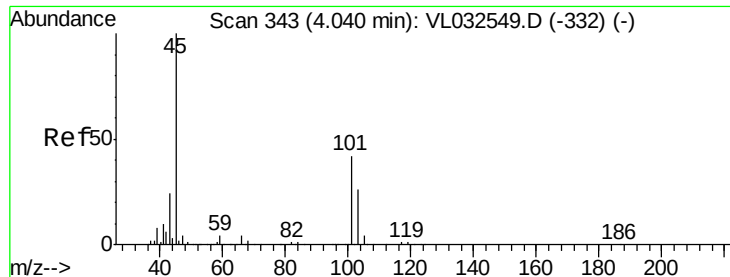
Tgt Ion: 59 Resp: 862780

Ion Ratio Lower Upper

59 100

57 11.0 0.0 0.0#





#19

Isopropyl Alcohol

Concen: 2.684 ppbv

RT: 4.06 min Scan# 348

Delta R.T. -0.01 min

Lab File: VL032615.D

Acq: 11 Oct 2018 22:07

Instrument :

MSVOA_L

ClientSampleId :

Q2-SVI-100518

Tot Ion: 45 Resp: 231844

Ion Ratio Lower Upper

45 100

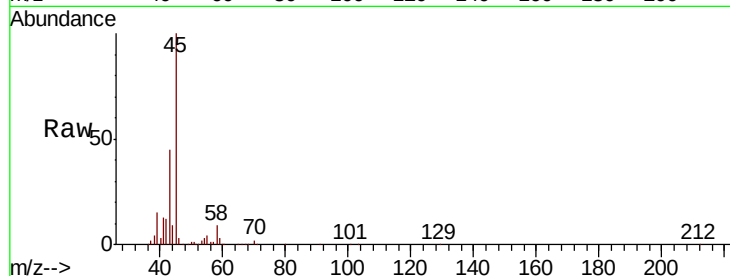
58 0.0 2.0 3.0#

Manual Integrations

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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

800000

600000

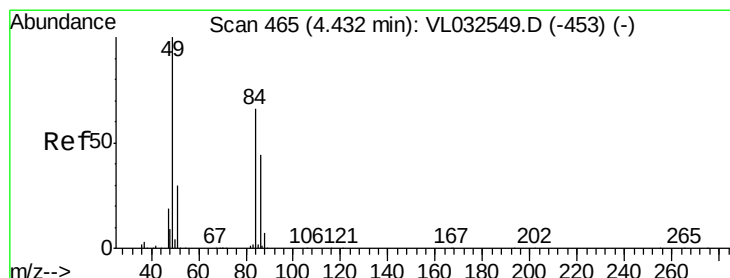
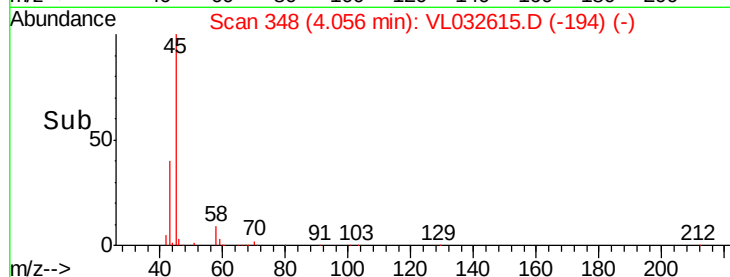
400000

200000

0

4.00 4.05 4.10 4.15

Time-->



#20

Methylene Chloride

Concen: 2.911 ppbv

RT: 4.44 min Scan# 468

Delta R.T. -0.01 min

Lab File: VL032615.D

Acq: 11 Oct 2018 22:07

Tgt Ion: 84 Resp: 174787

Ion Ratio Lower Upper

84 100

49 148.5 119.1 178.7

51 46.0 35.2 52.8

86 65.2 49.4 74.2

Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0

250000

200000

150000

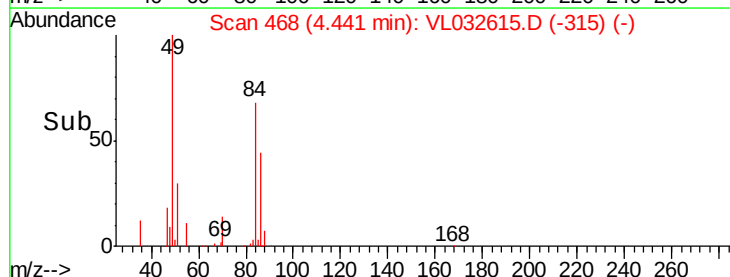
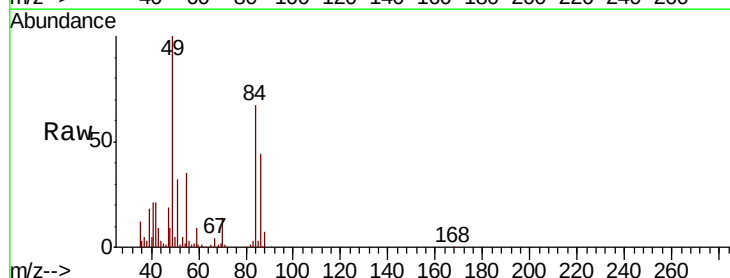
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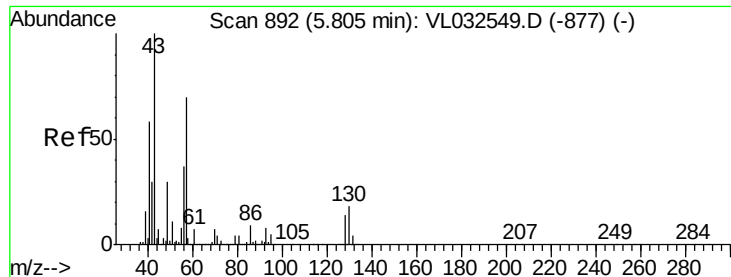
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0

4.40 4.45 4.50

Time-->





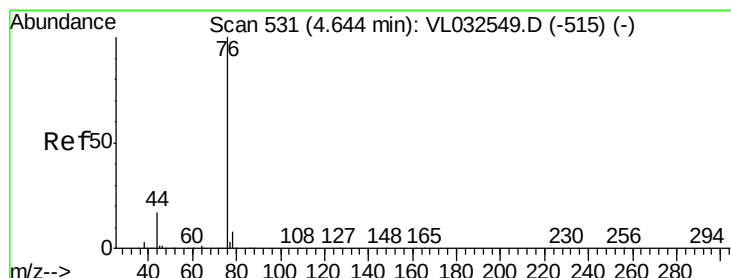
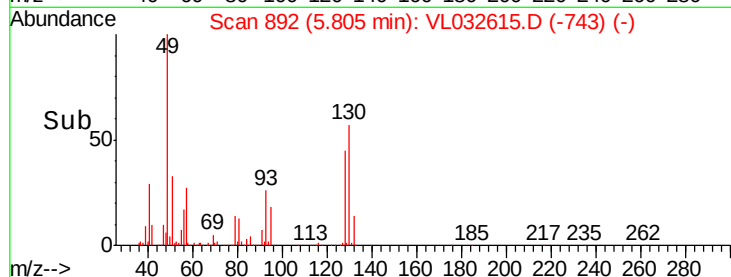
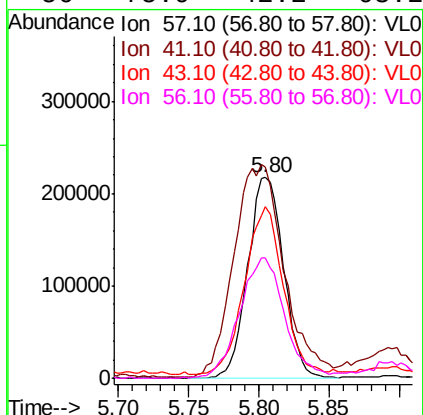
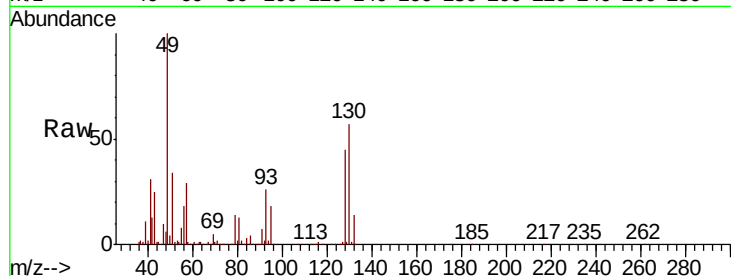
#26
Hexane
Concen: 2.862 ppbv
RT: 5.80 min Scan# 892
Delta R.T. -0.02 min
Lab File: VL032615.D
Acq: 11 Oct 2018 22:07

Instrument :
MSVOA_L
ClientSampleId :
Q2-SVI-100518

Tot Ion	Ratio	Lower	Upper
57	100		
41	147.9	69.0	103.4#
43	0.0	172.1	258.1#
56	75.9	42.2	63.2#

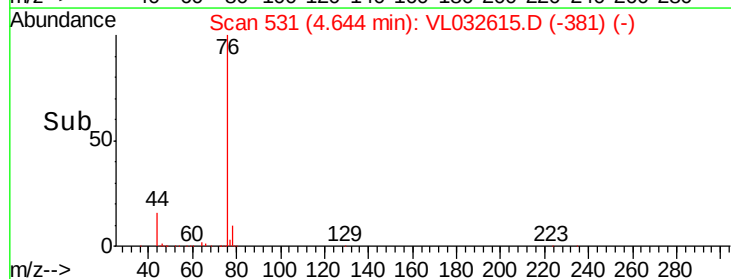
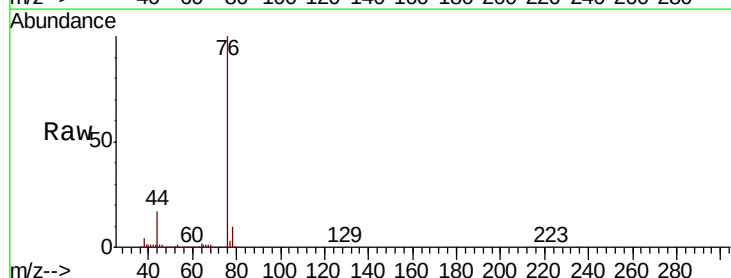
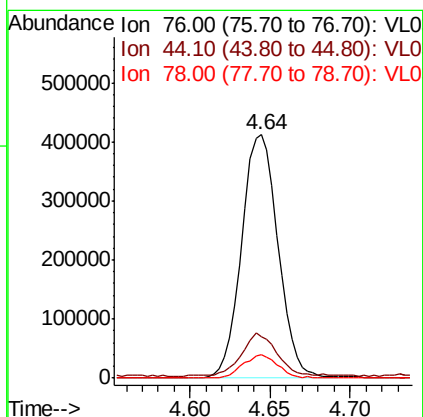
Manual Integrations
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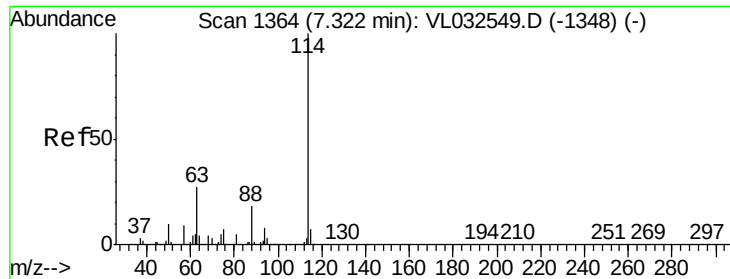
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#27
Carbon Disulfide
Concen: 4.368 ppbv
RT: 4.64 min Scan# 531
Delta R.T. -0.02 min
Lab File: VL032615.D
Acq: 11 Oct 2018 22:07

Tgt Ion	Ratio	Lower	Upper
76	100		
44	17.3	14.0	21.0
78	9.3	7.5	11.3





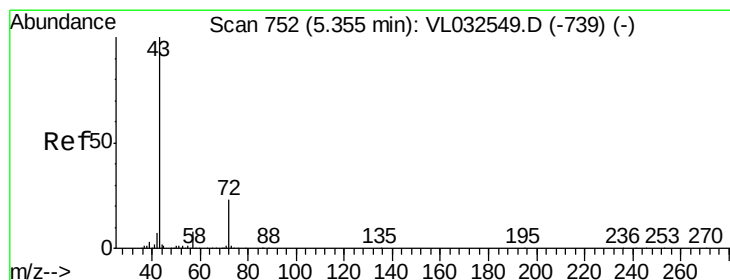
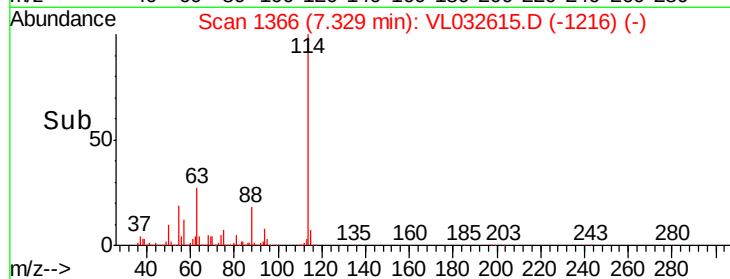
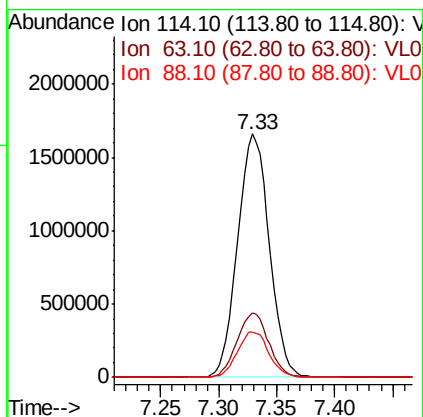
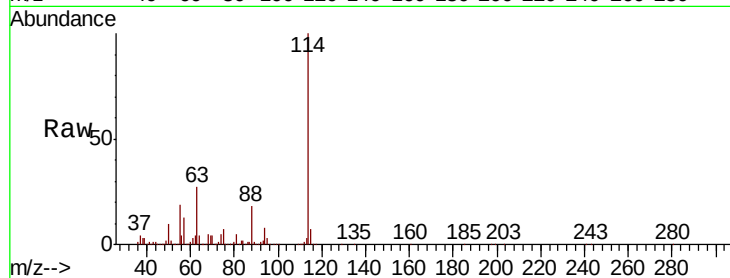
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.33 min Scan# 1366
 Delta R.T. -0.02 min
 Lab File: VL032615.D
 Acq: 11 Oct 2018 22:07

Instrument :
 MSVOA_L
 ClientSampleId :
 Q2-SVI-100518

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.7	22.2	33.4
88	18.7	15.0	22.4

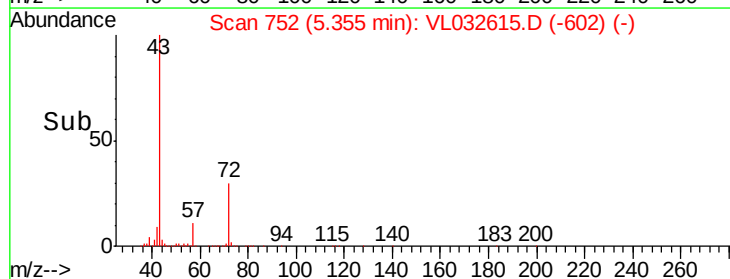
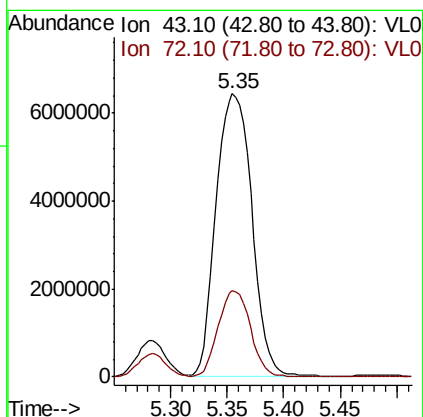
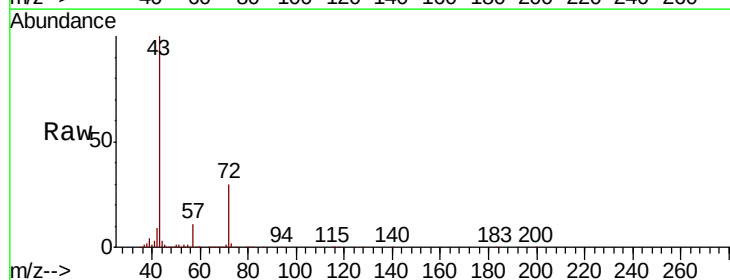
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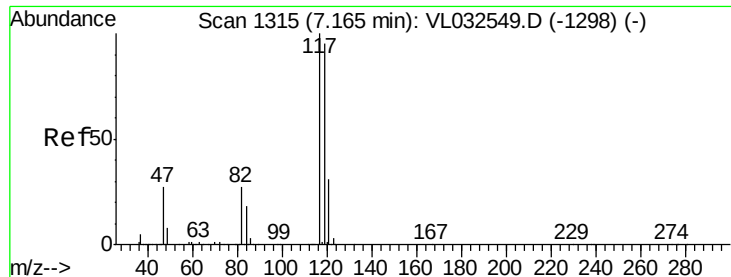
MMDadoda
 10/12/2018 2:07:39 PM



#34
 2-Butanone
 Concen: 75.525 ppbv
 RT: 5.35 min Scan# 752
 Delta R.T. -0.02 min
 Lab File: VL032615.D
 Acq: 11 Oct 2018 22:07

Tgt Ion	Ratio	Lower	Upper
43	100		
72	27.5	17.8	26.6#





#35

Carbon Tetrachloride

Concen: 0.041 ppbv m

RT: 7.16 min Scan# 1314

Delta R.T. -0.02 min

Lab File: VL032615.D

Acq: 11 Oct 2018 22:07

Instrument :

MSVOA_L

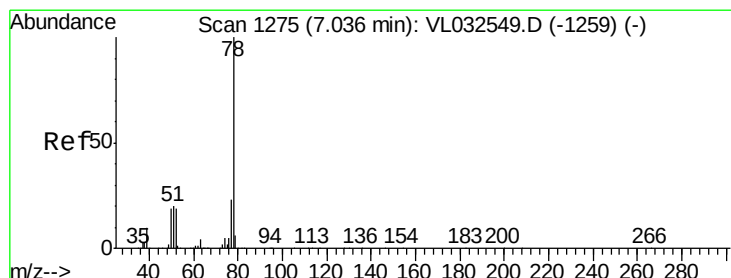
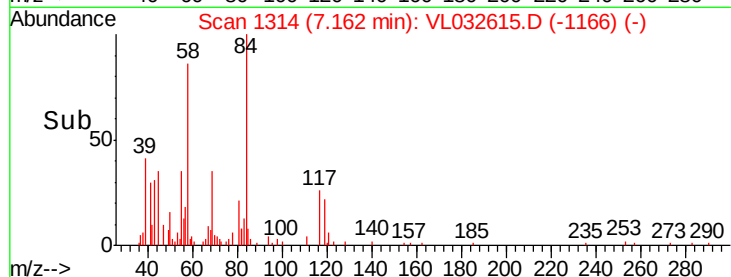
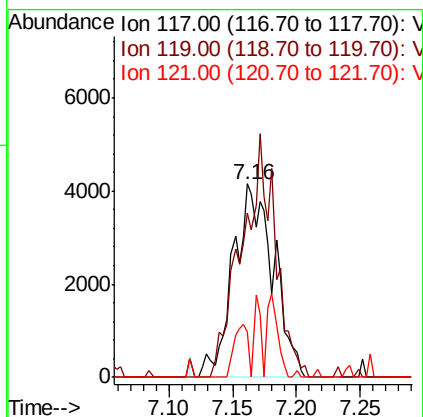
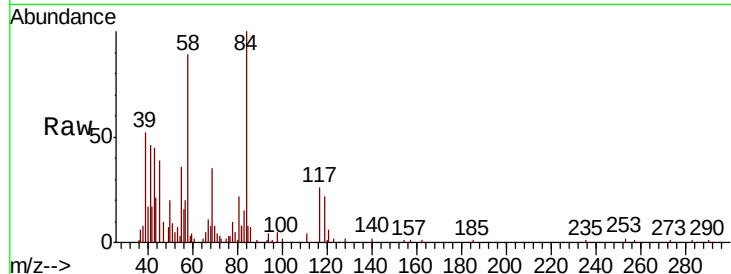
ClientSampleId :

Q2-SVI-100518

Tot Ion	Ratio	Lower	Upper
117	100		
119	84.6	76.6	115.0
121	23.1	24.6	36.8#

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#36

Benzene

Concen: 17.020 ppbv

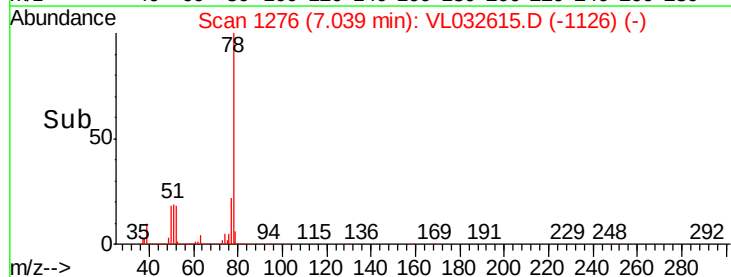
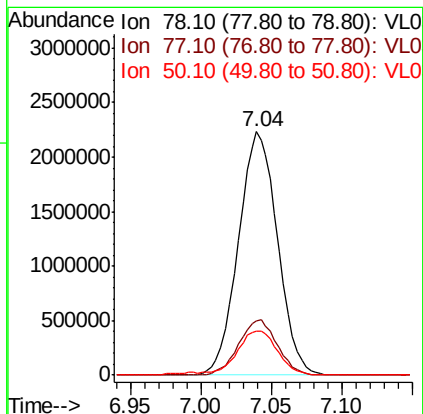
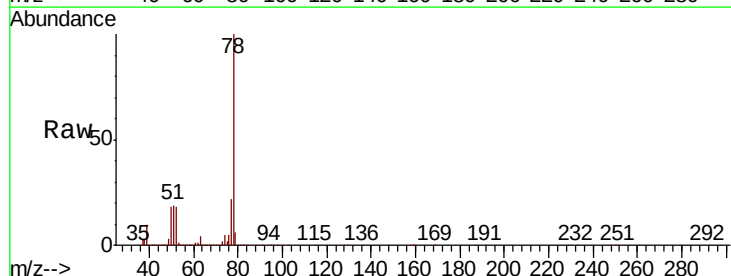
RT: 7.04 min Scan# 1276

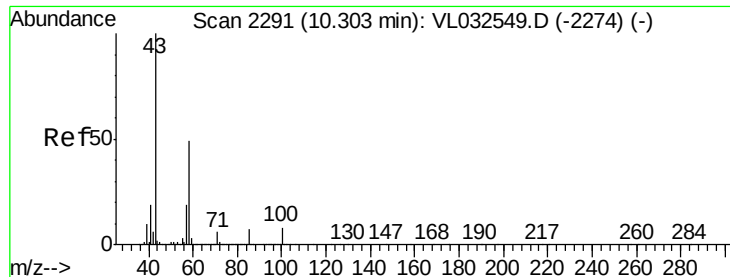
Delta R.T. -0.02 min

Lab File: VL032615.D

Acq: 11 Oct 2018 22:07

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.4	27.6
50	17.9	14.4	21.6





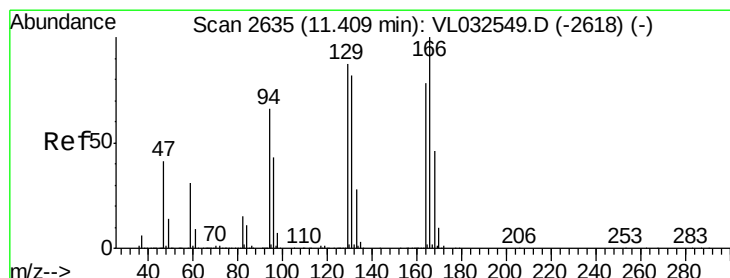
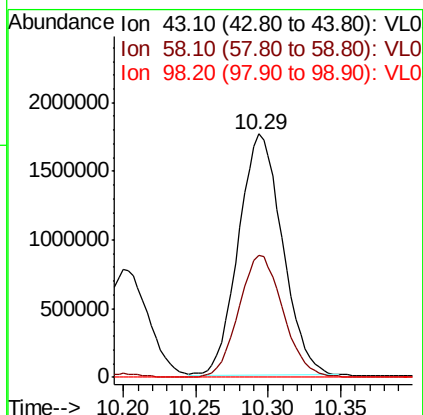
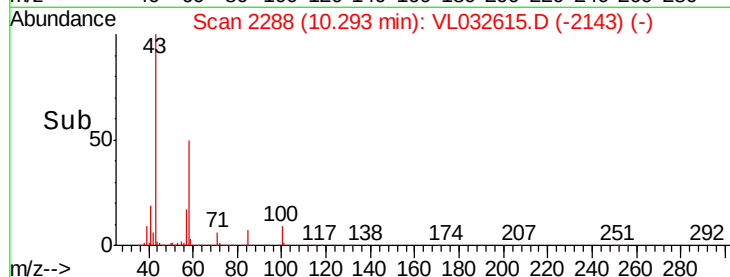
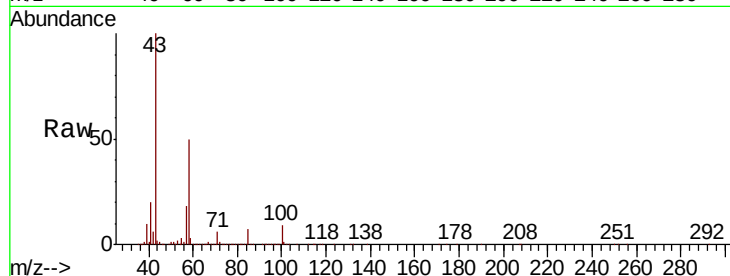
#51
2-Hexanone
Concen: 15.184 ppbv
RT: 10.29 min Scan# 2288
Delta R.T. -0.03 min
Lab File: VL032615.D
Acq: 11 Oct 2018 22:07

Instrument :
MSVOA_L
ClientSampleId :
Q2-SVI-100518

Tot Ion: 43 Resp: 3698530
Ion Ratio Lower Upper
43 100
58 51.0 39.2 58.8
98 0.9 0.4 0.6#

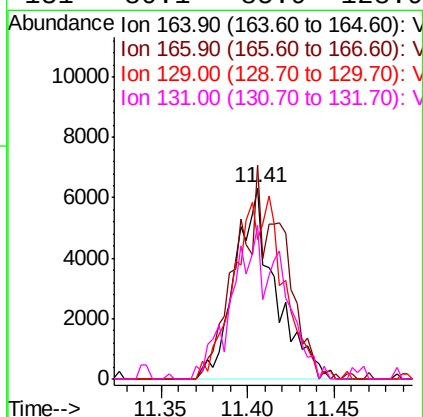
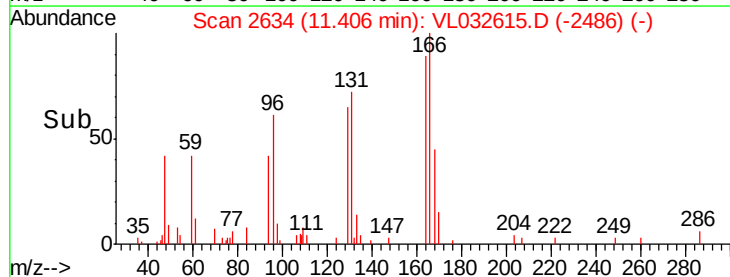
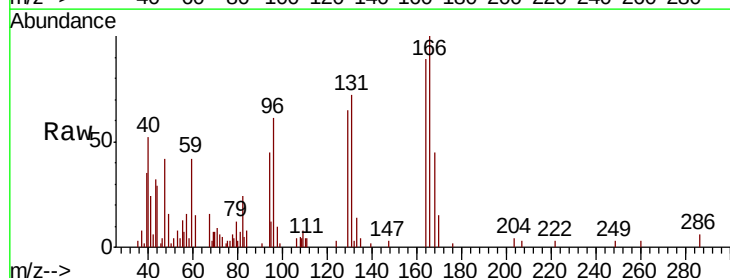
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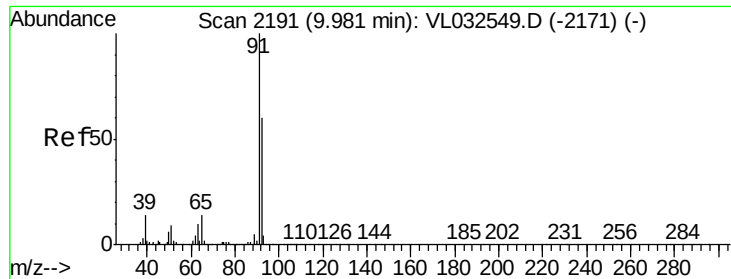
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#52
Tetrachloroethene
Concen: 0.117 ppbv m
RT: 11.41 min Scan# 2634
Delta R.T. -0.02 min
Lab File: VL032615.D
Acq: 11 Oct 2018 22:07

Tgt Ion: 164 Resp: 10382
Ion Ratio Lower Upper
164 100
166 111.8 100.6 150.8
129 72.8 89.9 134.9#
131 80.1 85.9 128.9#





#53

Toluene

Concen: 0.981 ppbv m

RT: 9.98 min Scan# 2192

Delta R.T. -0.02 min

Lab File: VL032615.D

Acq: 11 Oct 2018 22:07

Instrument :

MSVOA_L

ClientSampleId :

Q2-SVI-100518

Tot Ion: 91 Resp: 304072

Ion Ratio Lower Upper

91 100

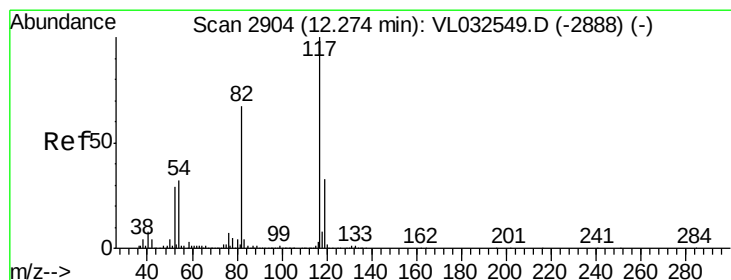
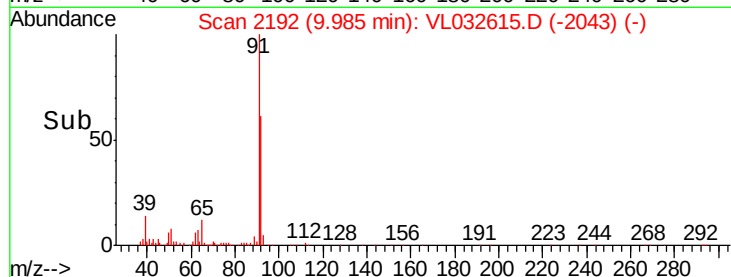
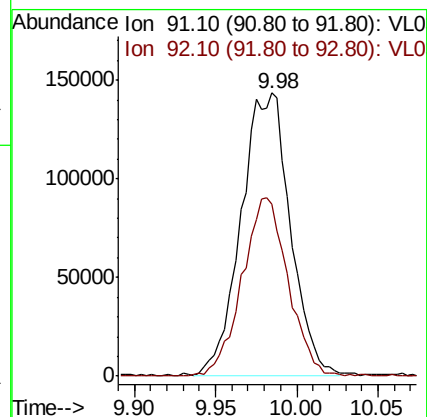
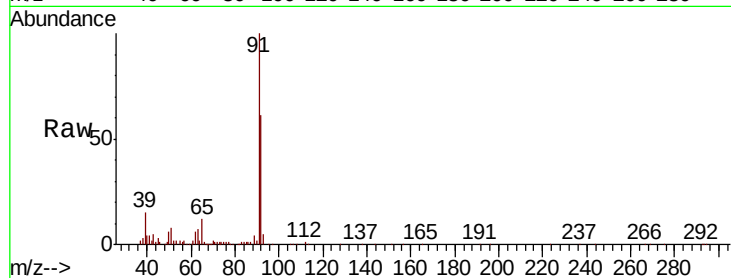
92 59.0 48.1 72.1

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.27 min Scan# 2904

Delta R.T. -0.02 min

Lab File: VL032615.D

Acq: 11 Oct 2018 22:07

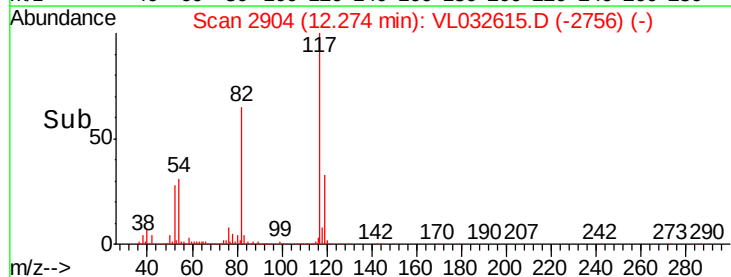
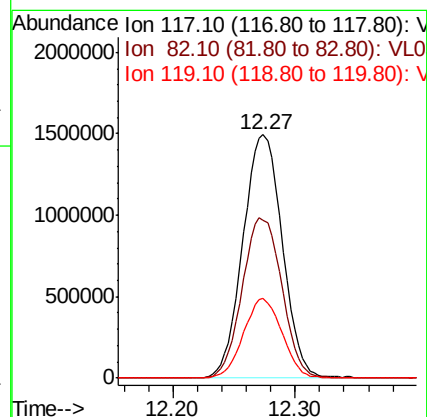
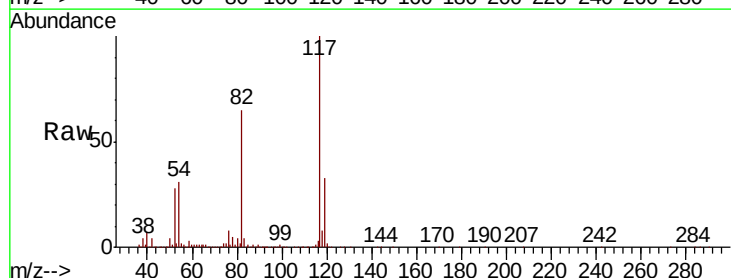
Tgt Ion: 117 Resp: 3334727

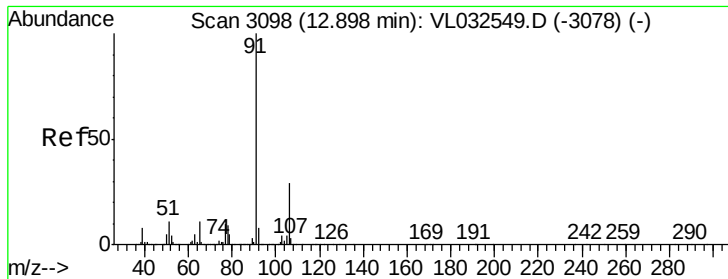
Ion Ratio Lower Upper

117 100

82 66.6 53.0 79.6

119 32.1 45.9 68.9#





#58

Ethyl Benzene

Concen: 0.108 ppbv m

RT: 12.90 min Scan# 3099

Delta R.T. -0.02 min

Lab File: VL032615.D

Acq: 11 Oct 2018 22:07

Instrument :

MSVOA_L

ClientSampleId :

Q2-SVI-100518

Tot Ion: 91 Resp: 43568

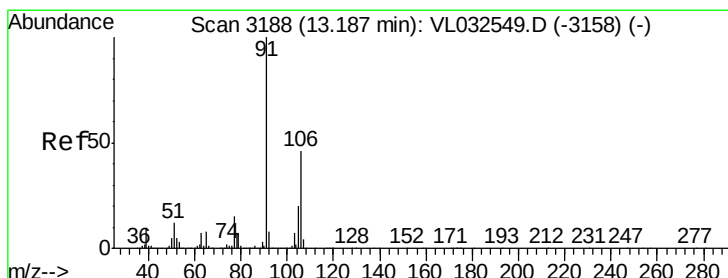
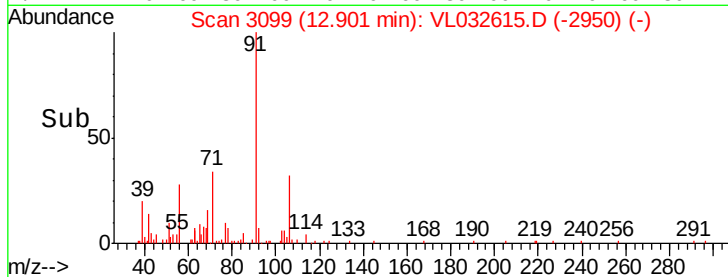
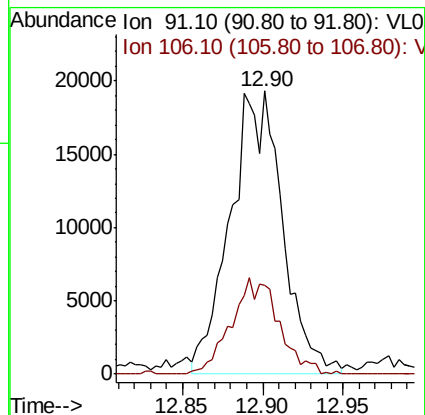
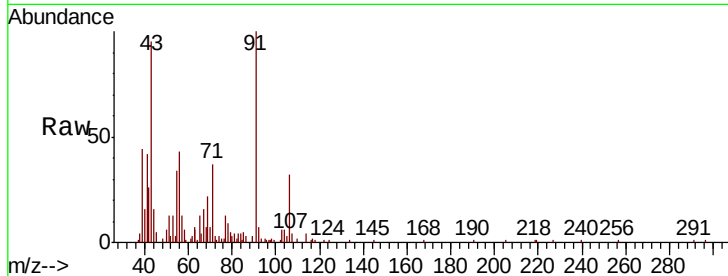
Ion Ratio Lower Upper

91 100

106 31.5 24.8 37.2

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#59

m/p-Xylene

Concen: 0.223 ppbv m

RT: 13.15 min Scan# 3177

Delta R.T. -0.06 min

Lab File: VL032615.D

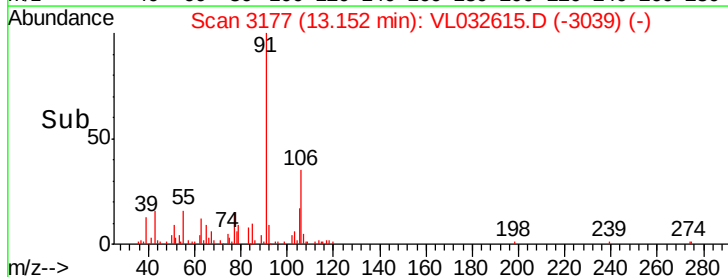
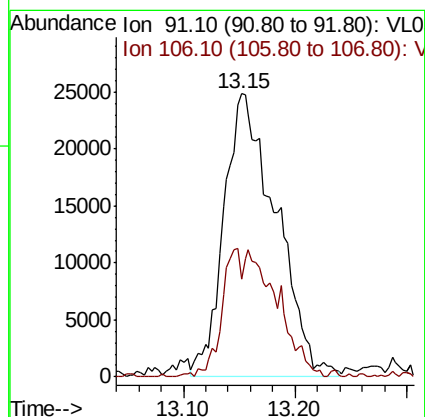
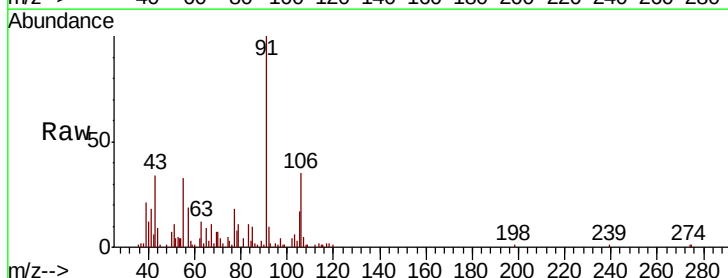
Acq: 11 Oct 2018 22:07

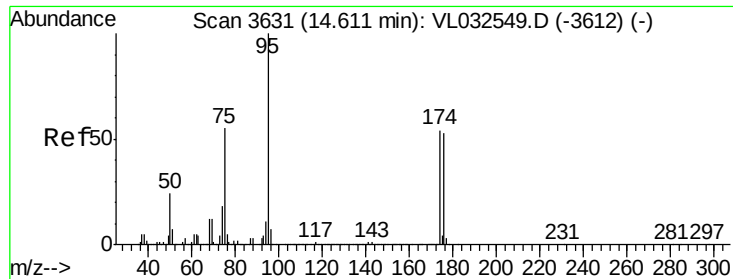
Tgt Ion: 91 Resp: 80371

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.369 ppbv

RT: 14.61 min Scan# 3631

Delta R.T. -0.02 min

Lab File: VL032615.D

Acq: 11 Oct 2018 22:07

Instrument :

MSVOA_L

ClientSampleId :

Q2-SVI-100518

Tot Ion: 95 Resp: 2356140

Ion Ratio Lower Upper

95 100

174 58.2 46.3 69.5

175 4.2 3.4 5.0

Manual Integrations

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