

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070218\
 Data File : VL032198.D
 Acq On : 3 Jul 2018 1:44
 Operator : SY/AP
 Sample : J3735-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3DL

Manual Integrations
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 7/3/2018 5:17:24 PM

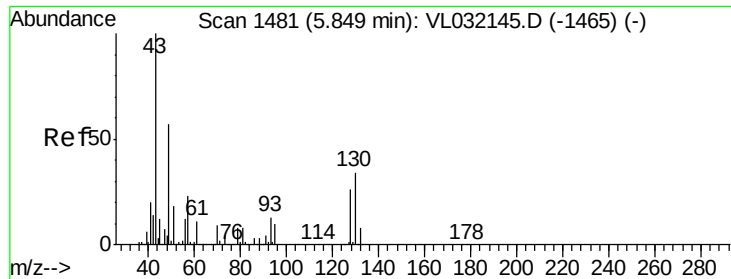
Quant Time: Jul 03 06:56:07 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 29 2018
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1435767	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3401828	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3169102	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	2411898	9.96	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	99.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.13	85	19886	0.11	ppbv	99
9) Propene	3.10	41	201642	2.47	ppbv #	77
10) Heptane	8.34	43	154272	0.65	ppbv	100
11) Trichlorofluoromethane	4.07	101	217956	1.07	ppbv	97
13) Ethanol	3.72	45	80968	3.27	ppbv	98
15) Acetone	3.97	43	485456	2.89	ppbv	97
17) tert-Butyl alcohol	4.46	59	23447	0.22	ppbv #	83
20) Methylene Chloride	4.48	84	13783	0.22	ppbv #	87
26) Hexane	5.86	57	301635	1.89	ppbv #	45
32) 1,1,1-Trichloroethane	6.71	97	33085m	0.14	ppbv	
34) 2-Butanone	5.42	43	93928	0.44	ppbv	99
36) Benzene	7.09	78	56338	0.17	ppbv #	85
52) Tetrachloroethene	11.47	164	76901m	0.64	ppbv	
53) Toluene	10.04	91	148090	0.37	ppbv	98
59) m/p-Xylene	13.22	91	119761m	0.29	ppbv	
60) o-Xylene	13.95	91	55222	0.14	ppbv	99
74) 1,2,4-Trimethylbenzene	17.03	105	141340	0.28	ppbv #	71

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



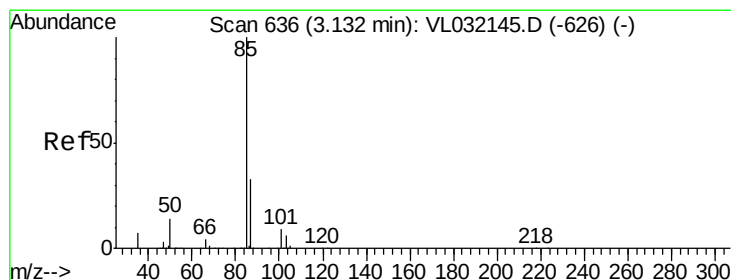
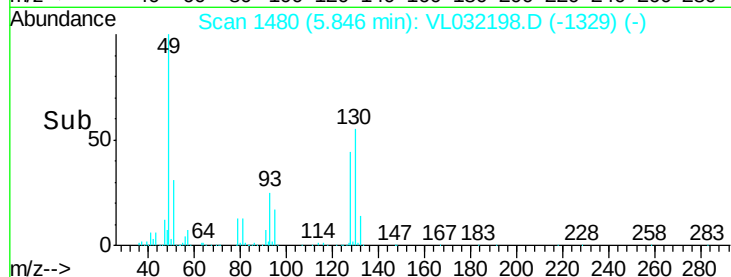
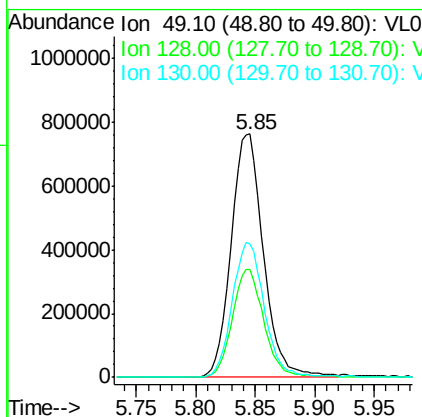
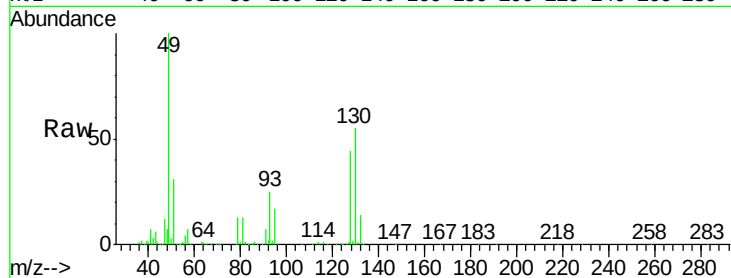
#1
Bromochloromethane
Concen: 10.00 ppbv
RT: 5.85 min Scan# 1480
Delta R.T. -0.02 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Instrument :
MSVOA_L
ClientSampled :
SS-3DL

Tot Ion: 49 Resp: 1435767
Ion Ratio Lower Upper
49 100
128 43.8 23.4 70.0
130 56.0 30.3 90.9

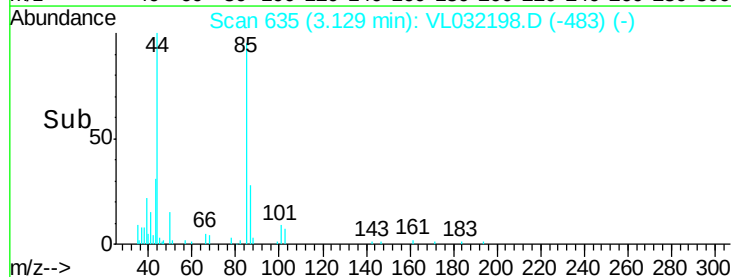
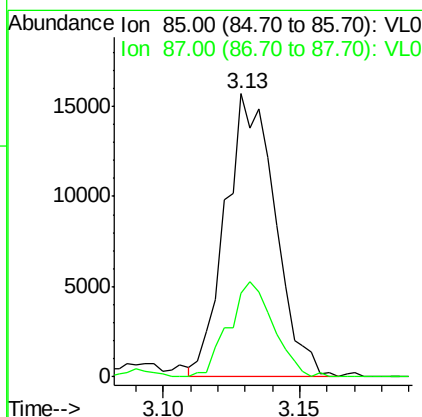
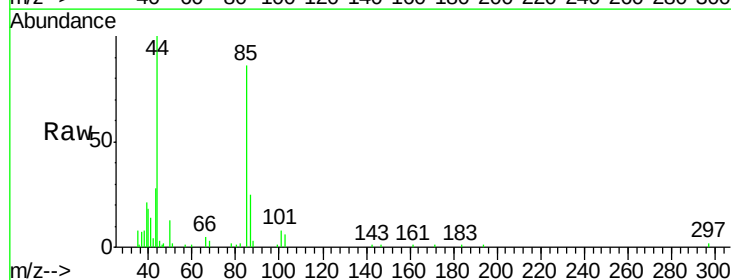
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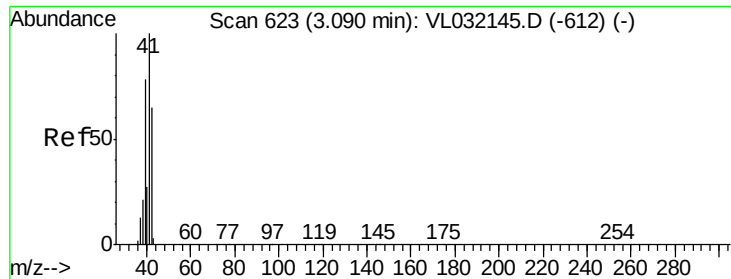
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#2
Dichlorodifluoromethane
Concen: 0.11 ppbv
RT: 3.13 min Scan# 635
Delta R.T. -0.01 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Tgt Ion: 85 Resp: 19886
Ion Ratio Lower Upper
85 100
87 32.7 26.7 40.1





#9

Propene

Concen: 2.47 ppbv

RT: 3.10 min Scan# 626

Delta R.T. 0.00 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

Tot Ion: 41 Resp: 201642

Ion Ratio Lower Upper

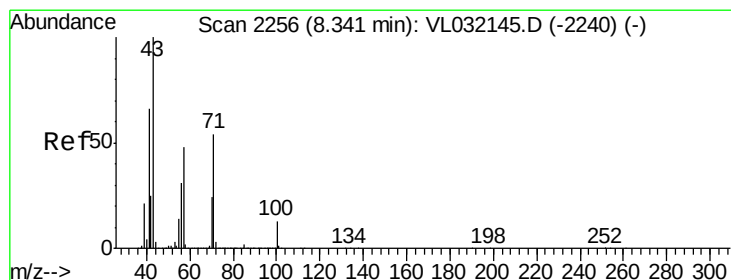
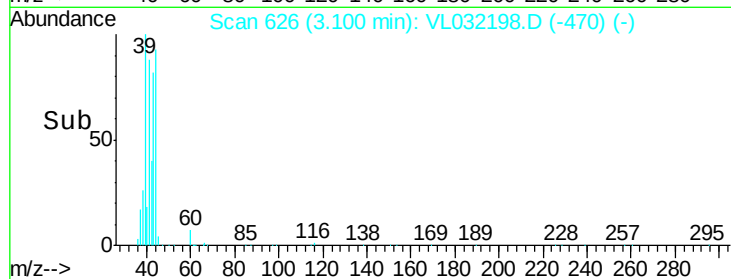
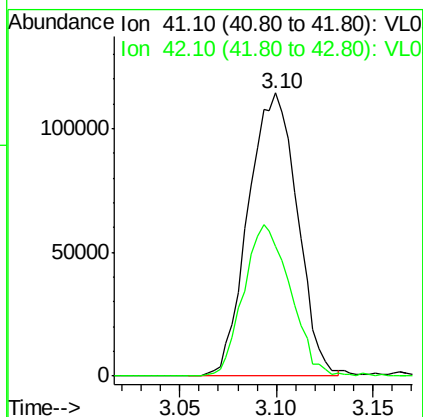
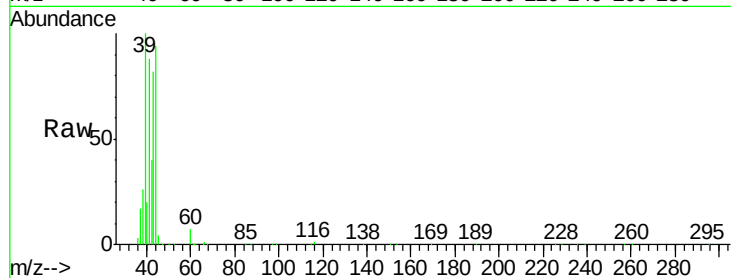
41 100

42 51.4 56.2 84.4#

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#10

Heptane

Concen: 0.65 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. -0.02 min

Lab File: VL032198.D

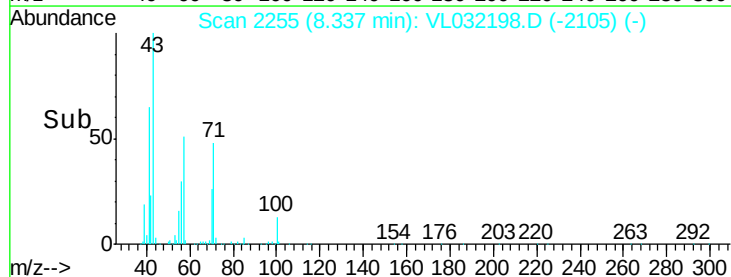
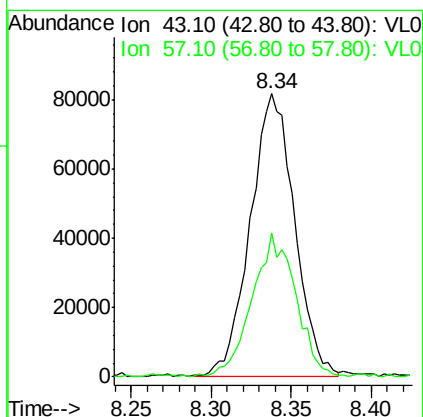
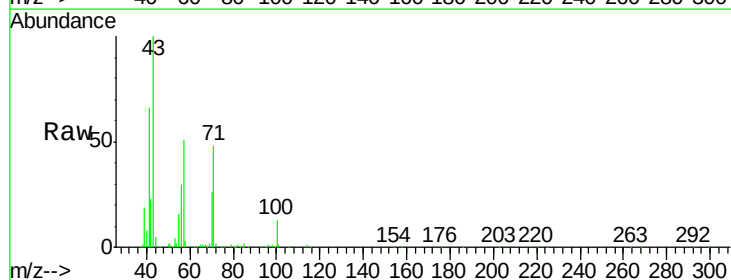
Acq: 3 Jul 2018 1:44

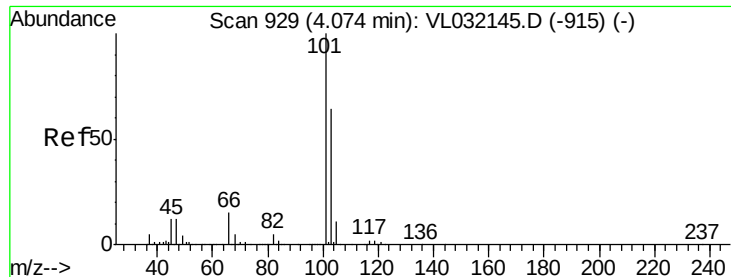
Tgt Ion: 43 Resp: 154272

Ion Ratio Lower Upper

43 100

57 50.1 39.8 59.8





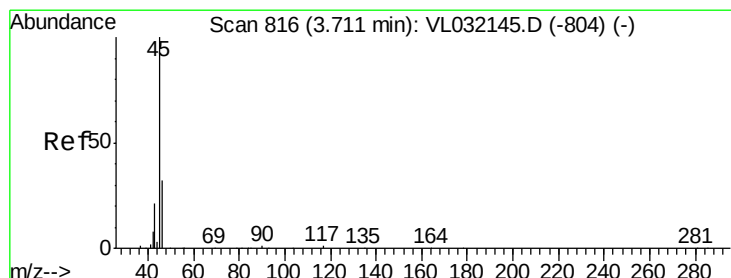
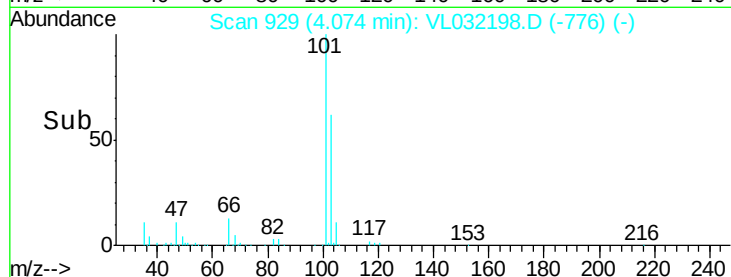
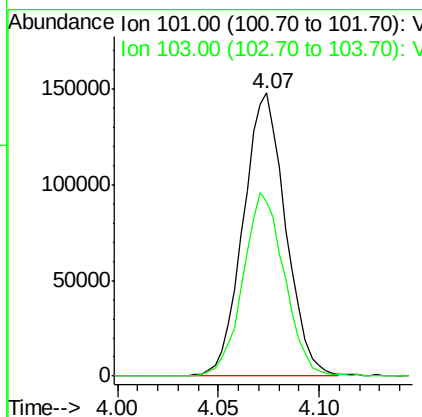
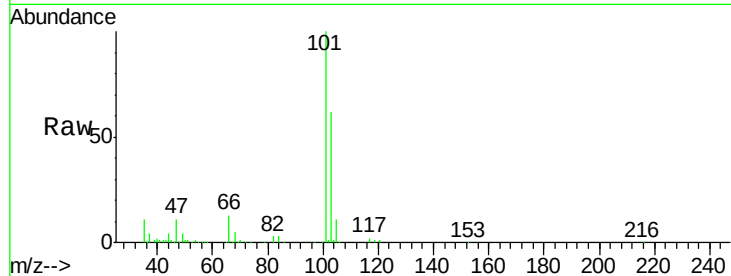
#11
Trichlorofluoromethane
Concen: 1.07 ppbv
RT: 4.07 min Scan# 929
Delta R.T. -0.01 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

Tot Ion	Ratio	Lower	Upper
101	100		
103	61.6	51.4	77.0

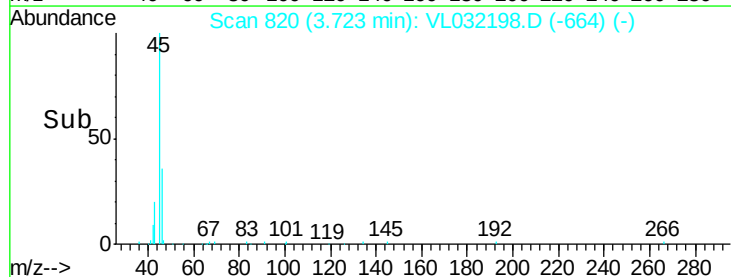
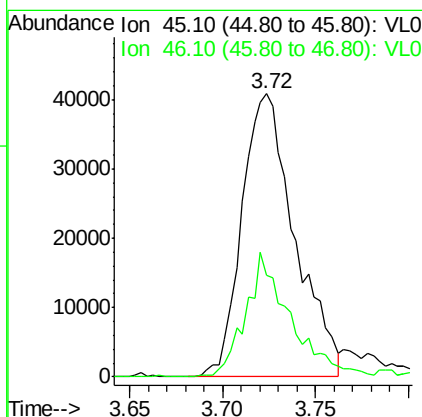
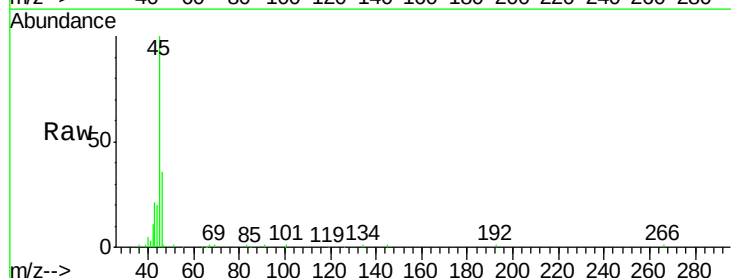
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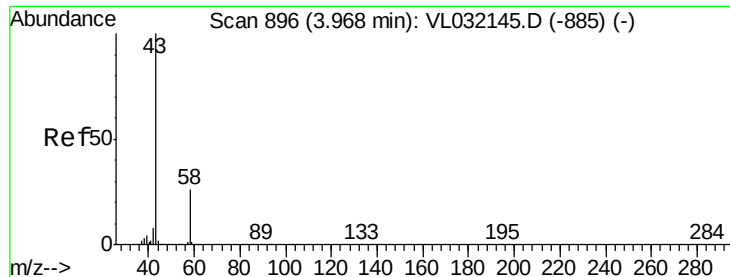
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#13
Ethanol
Concen: 3.27 ppbv
RT: 3.72 min Scan# 820
Delta R.T. 0.00 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Tgt Ion	Ratio	Lower	Upper
45	100		
46	37.9	14.6	58.4





#15

Acetone

Concen: 2.89 ppbv

RT: 3.97 min Scan# 897

Delta R.T. -0.01 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

Tot Ion: 43 Resp: 485456

Ion Ratio Lower Upper

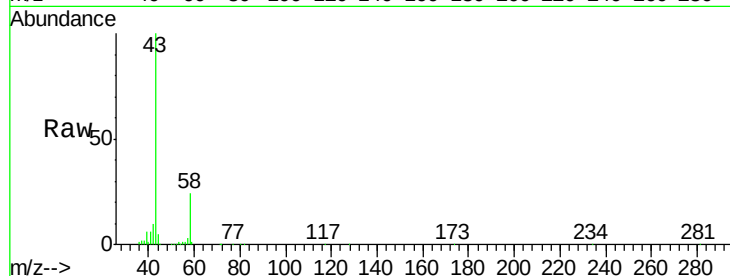
43 100

58 25.1 21.4 32.0

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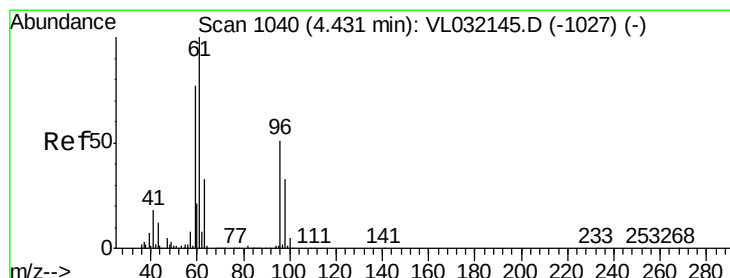
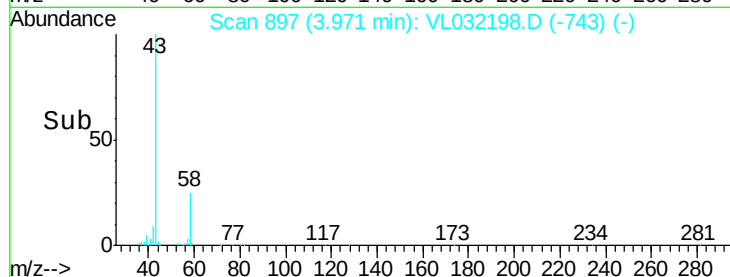
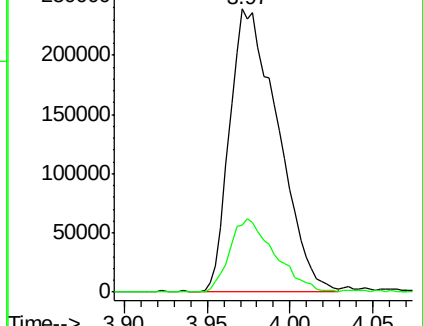
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#17

tert-Butyl alcohol

Concen: 0.22 ppbv

RT: 4.46 min Scan# 1048

Delta R.T. 0.02 min

Lab File: VL032198.D

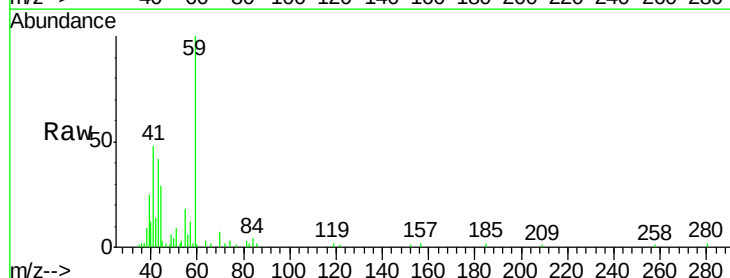
Acq: 3 Jul 2018 1:44

Tgt Ion: 59 Resp: 23447

Ion Ratio Lower Upper

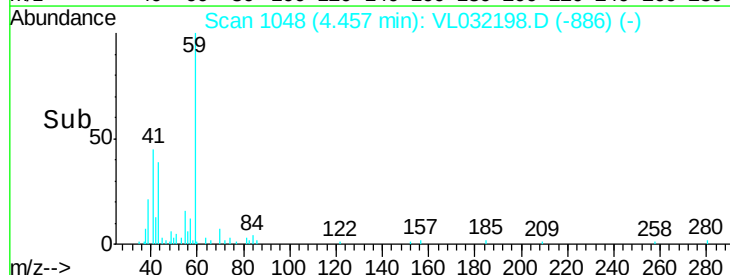
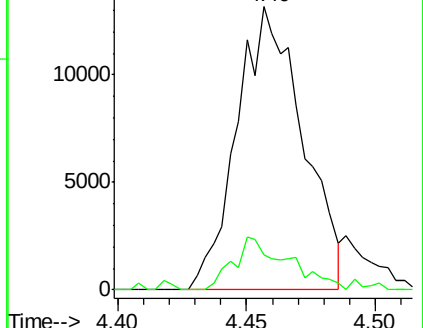
59 100

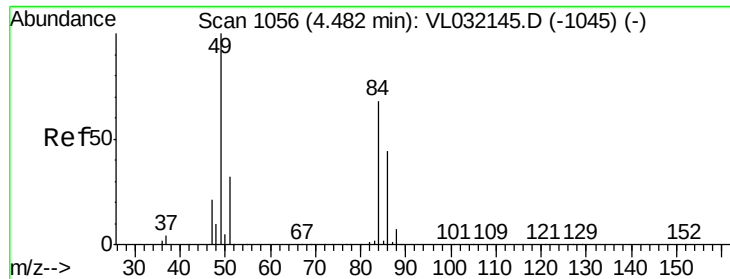
57 16.4 8.2 12.2#



Abundance Ion 59.10 (58.80 to 59.80): VL0

Ion 57.10 (56.80 to 57.80): VL0





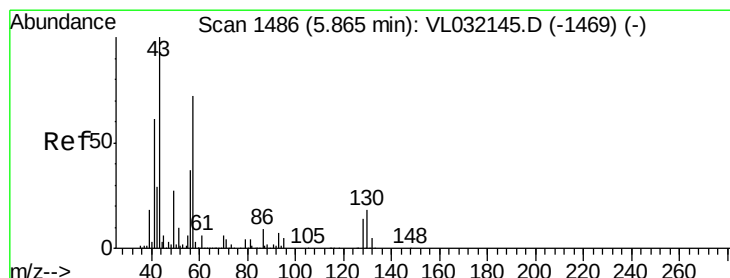
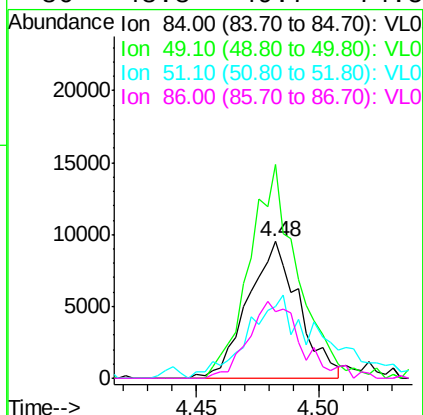
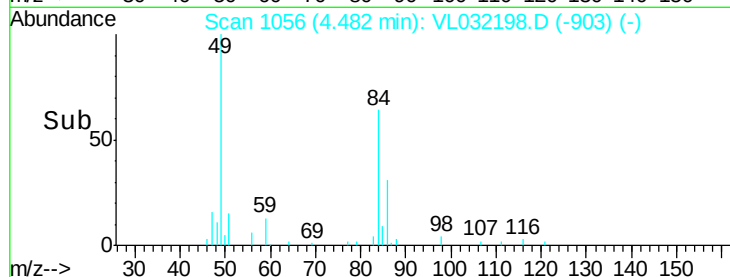
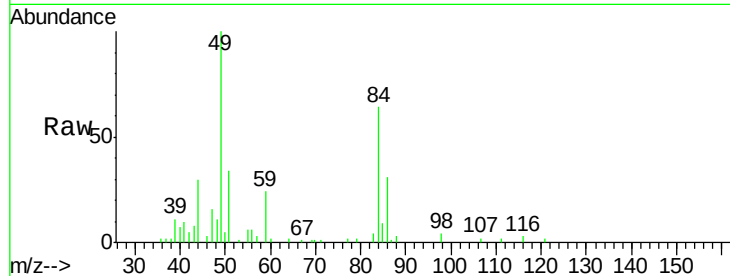
#20
Methvlene Chloride
Concen: 0.22 ppbv
RT: 4.48 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

Tot Ion	Ratio	Lower	Upper
84	100		
49	164.0	119.6	179.4
51	52.6	36.3	54.5
86	48.8	49.7	74.5#

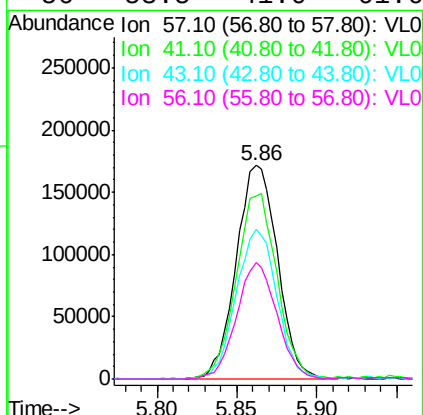
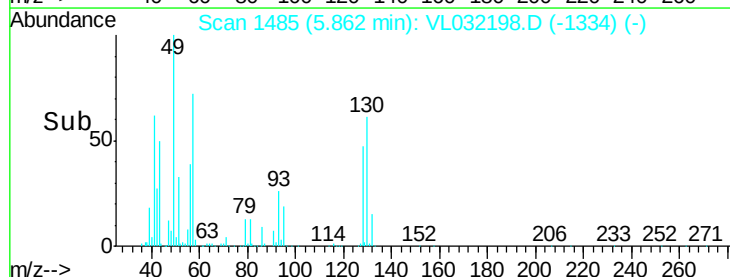
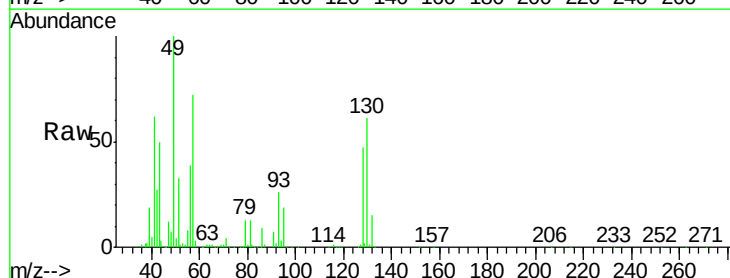
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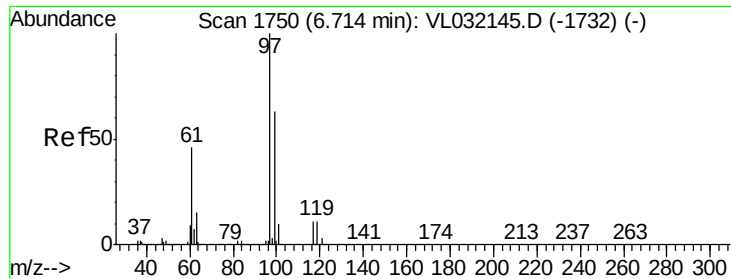
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#26
Hexane
Concen: 1.89 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Tgt Ion	Ratio	Lower	Upper
57	100		
41	86.1	68.6	103.0
43	68.9	168.6	252.8#
56	53.5	41.0	61.6





#32

1,1,1-Trichloroethane

Concen: 0.14 ppbv m

RT: 6.71 min Scan# 1748

Delta R.T. -0.02 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Instrument :

MSVOA_L

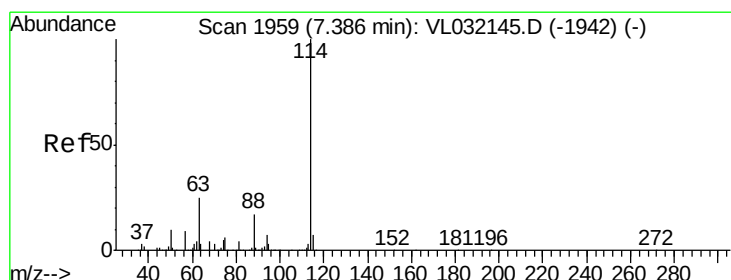
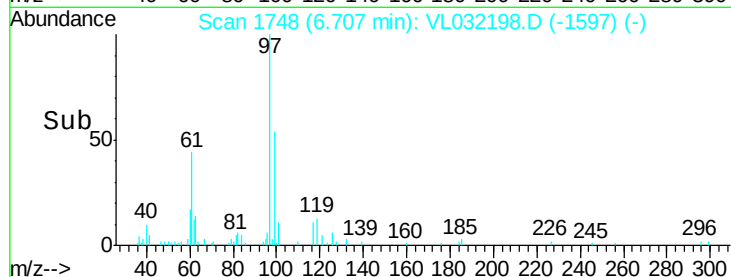
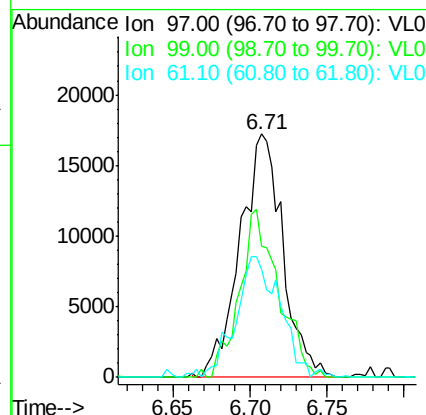
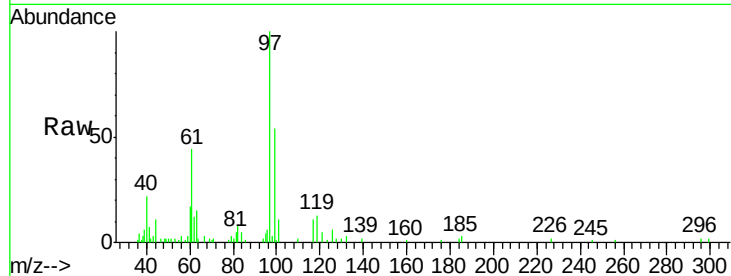
ClientSampleId :

SS-3DL

Tot Ion:	97	Resp:	33085
Ion Ratio	Lower	Upper	
97	100		
99	62.9	51.3	76.9
61	52.6	38.4	57.6

Manual Integrations
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#33

1,4-Difluorobenzene

Concen: 10.00 ppbv

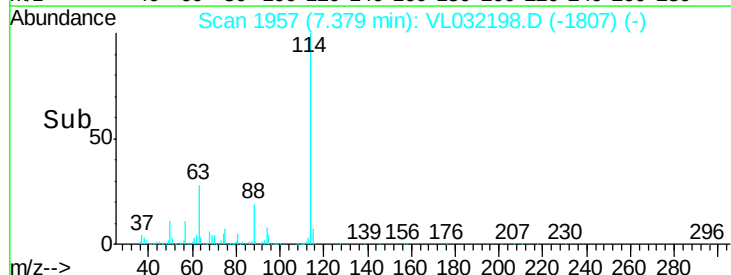
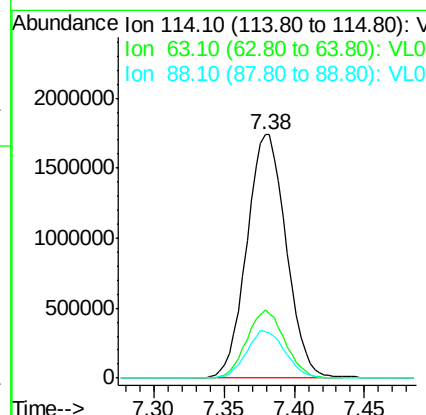
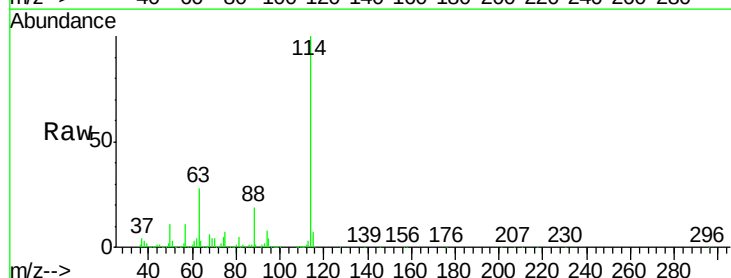
RT: 7.38 min Scan# 1957

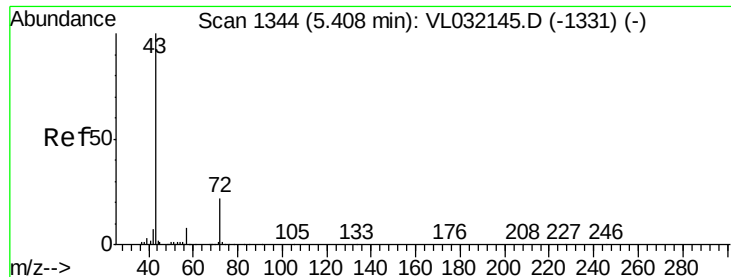
Delta R.T. -0.02 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Tgt Ion:	114	Resp:	3401828
Ion Ratio	Lower	Upper	
114	100		
63	27.2	19.1	28.7
88	19.3	13.9	20.9





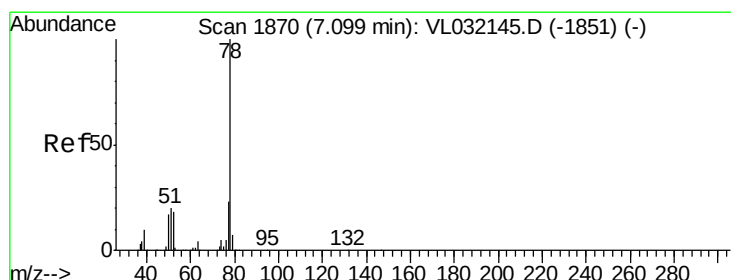
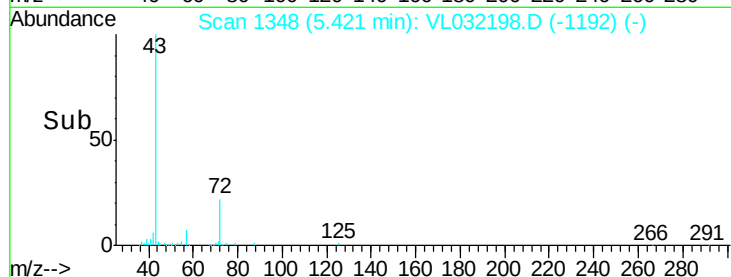
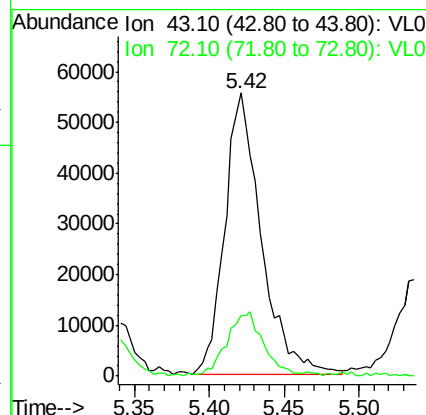
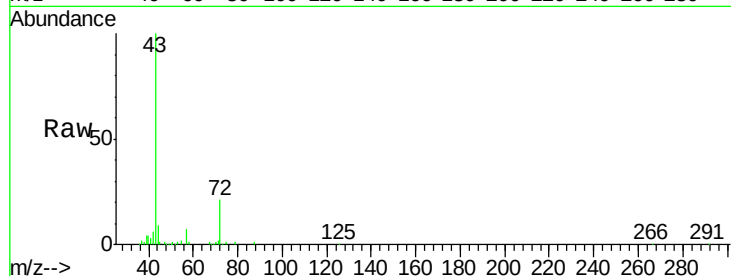
#34
2-Butanone
Concen: 0.44 ppbv
RT: 5.42 min Scan# 1348
Delta R.T. 0.00 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Instrument :
MSVOA_L
ClientSampleId :
SS-3DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	23.5	18.4	27.6

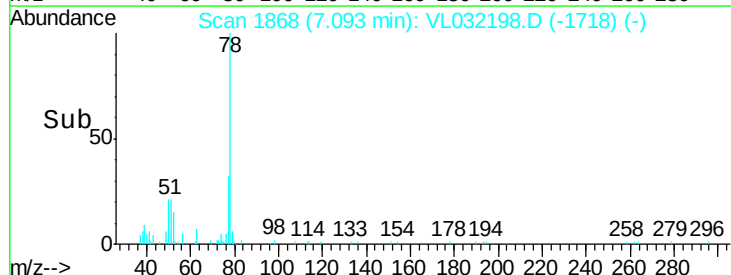
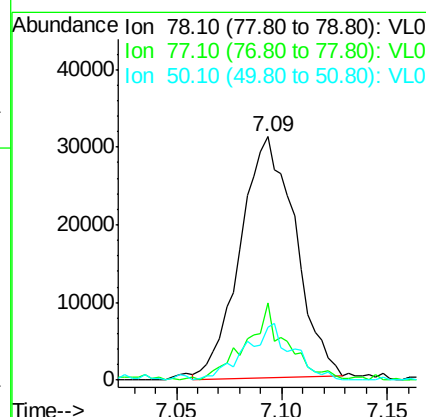
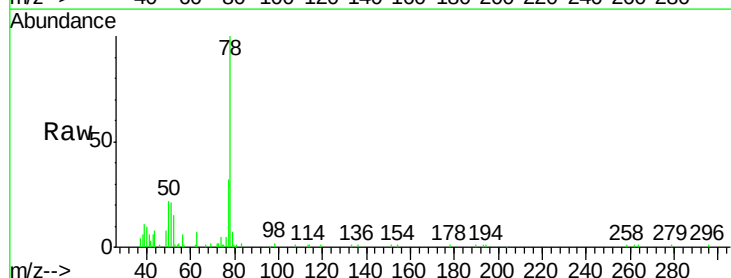
Manual Integrations
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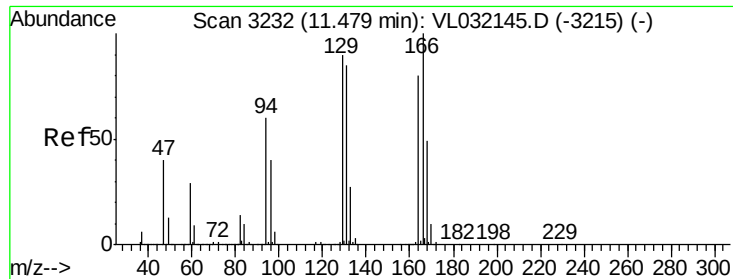
MMDadoda
7/3/2018 5:17:24 PM



#36
Benzene
Concen: 0.17 ppbv
RT: 7.09 min Scan# 1868
Delta R.T. -0.02 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Tgt Ion	Ratio	Lower	Upper
78	100		
77	31.3	17.7	26.5#
50	21.9	14.0	21.0#





#52

Tetrachloroethene

Concen: 0.64 ppbv m

RT: 11.47 min Scan# 3230

Delta R.T. -0.02 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

Tot Ion:164 Resp: 76901

Ion Ratio Lower Upper

164 100

166 119.6 100.6 151.0

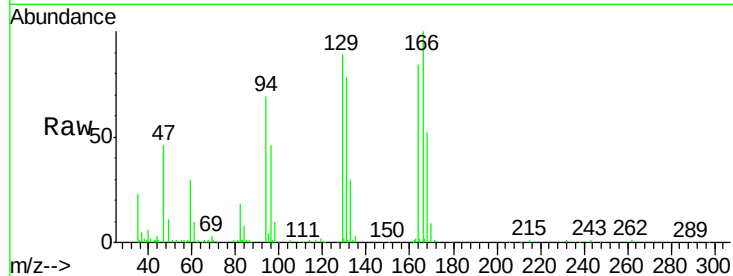
129 107.0 84.0 126.0

131 93.8 82.7 124.1

Manual Integrations
APPROVED

MMDadoda

7/3/2018 5:17:24 PM

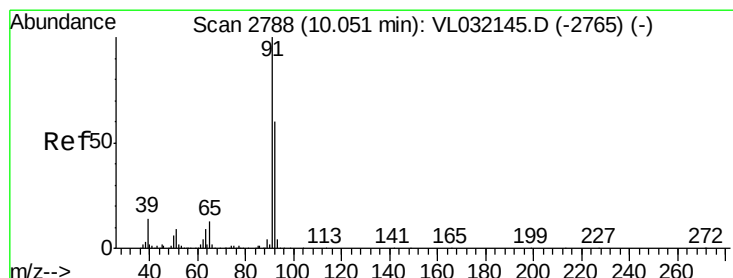
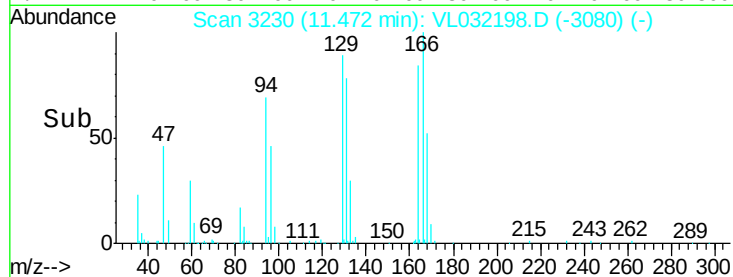
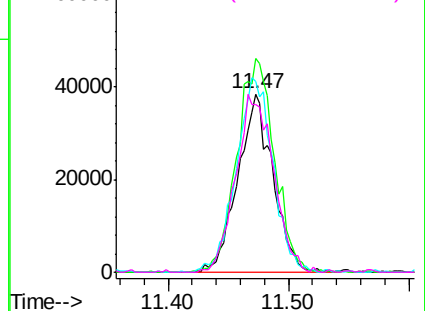


Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.37 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.02 min

Lab File: VL032198.D

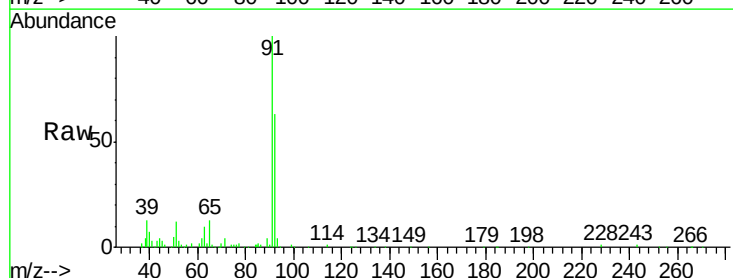
Acq: 3 Jul 2018 1:44

Tgt Ion: 91 Resp: 148090

Ion Ratio Lower Upper

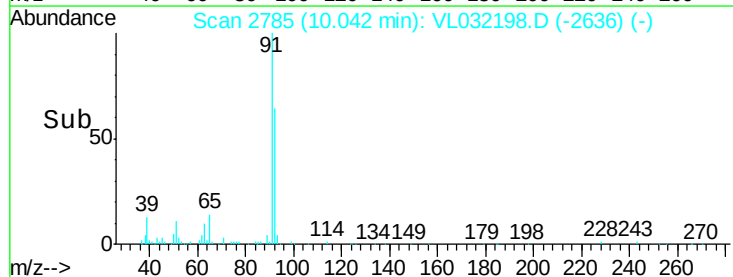
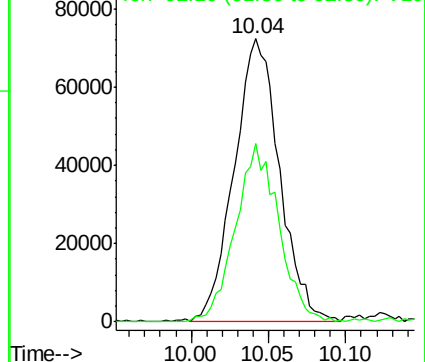
91 100

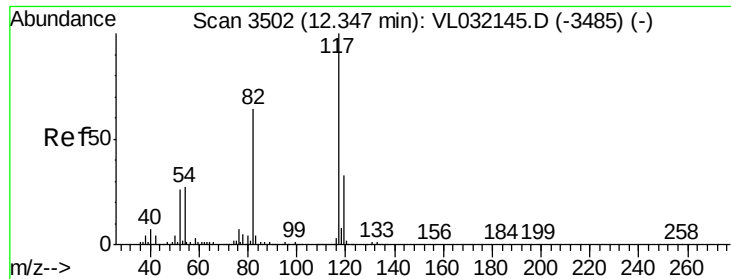
92 60.1 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.34 min Scan# 3500

Delta R.T. -0.02 min

Lab File: VL032198.D

Acq: 3 Jul 2018 1:44

Instrument :

MSVOA_L

ClientSampleId :

SS-3DL

Tot Ion:117 Resp: 3169102

Ion Ratio Lower Upper

117 100

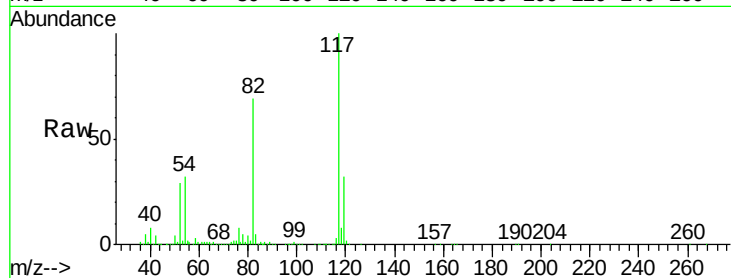
82 69.6 47.8 71.8

119 32.3 43.3 64.9#

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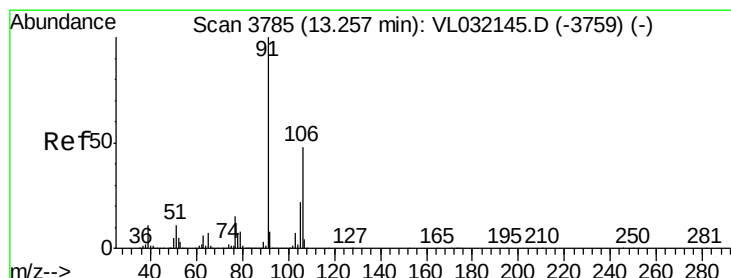
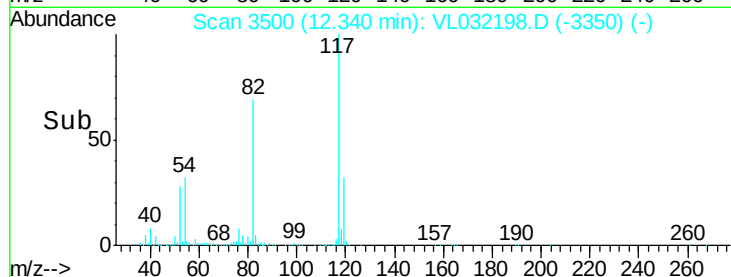
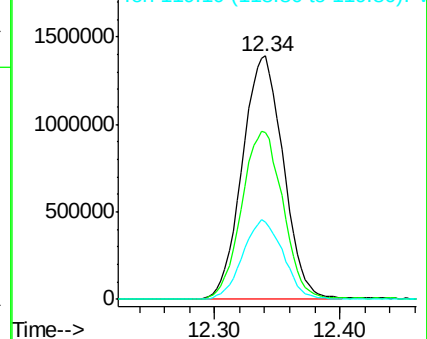
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#59

m/p-Xylene

Concen: 0.29 ppbv m

RT: 13.22 min Scan# 3774

Delta R.T. -0.05 min

Lab File: VL032198.D

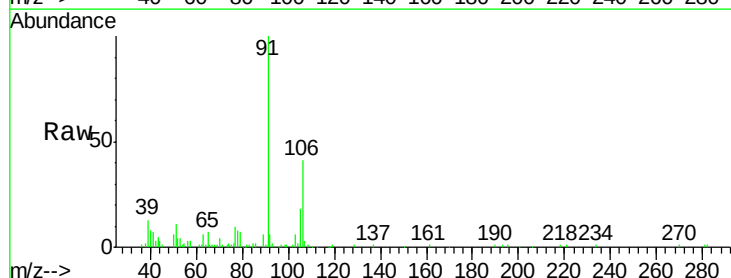
Acq: 3 Jul 2018 1:44

Tgt Ion: 91 Resp: 119761

Ion Ratio Lower Upper

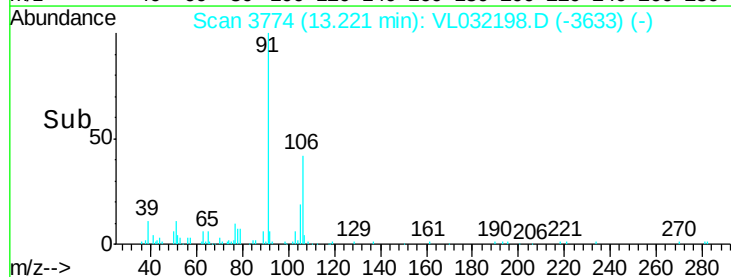
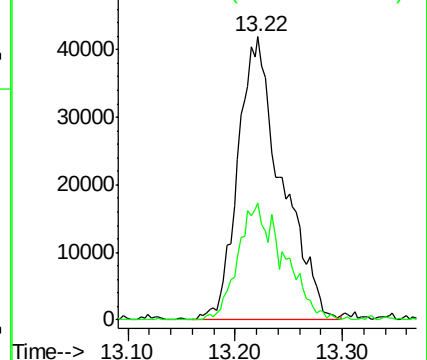
91 100

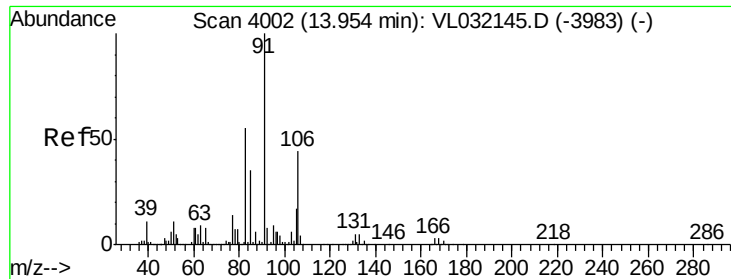
106 0.0 38.6 58.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





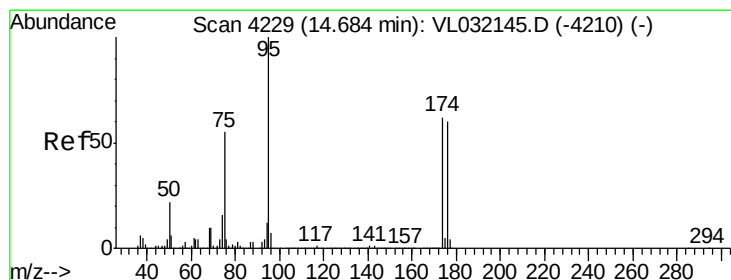
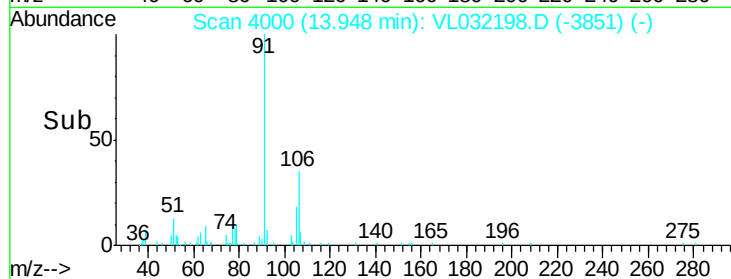
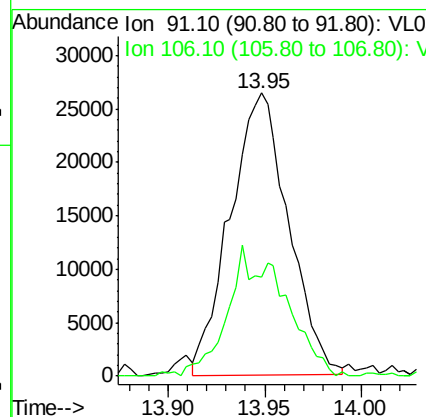
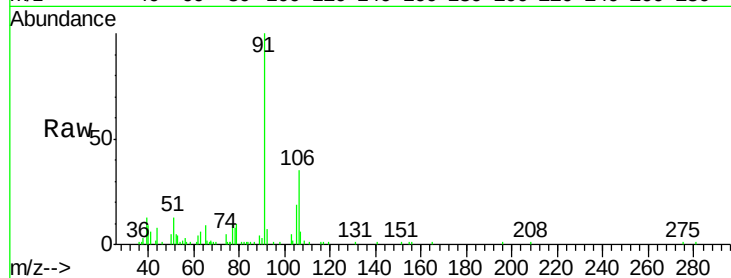
#60
o-Xylene
Concen: 0.14 ppbv
RT: 13.95 min Scan# 4000
Delta R.T. -0.02 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Instrument :
MSVOA_L
ClientSampled :
SS-3DL

Tot Ion: 91 Resp: 55222
Ion Ratio Lower Upper
91 100
106 45.6 23.3 69.8

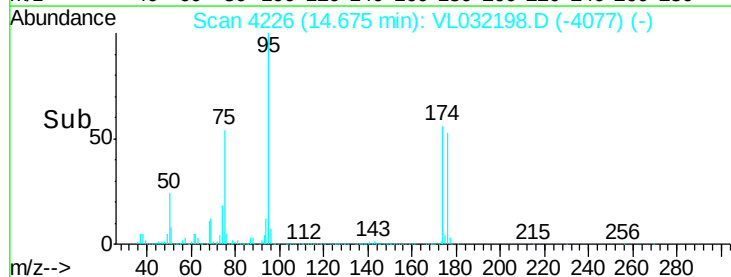
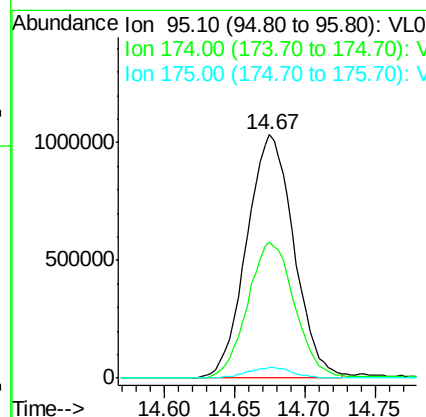
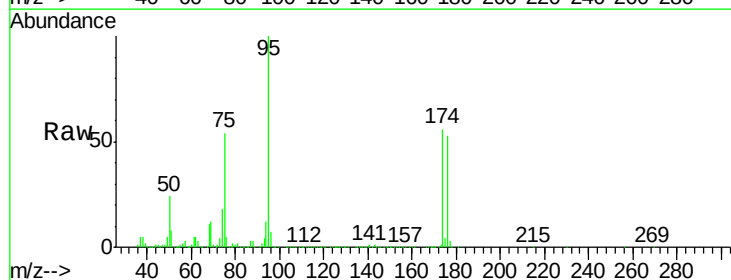
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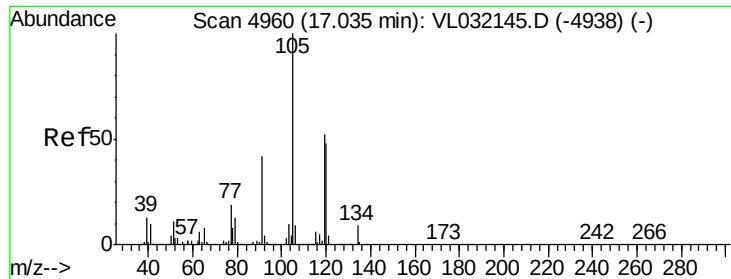
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.96 ppbv
RT: 14.67 min Scan# 4226
Delta R.T. -0.02 min
Lab File: VL032198.D
Acq: 3 Jul 2018 1:44

Tgt Ion: 95 Resp: 2411898
Ion Ratio Lower Upper
95 100
174 57.0 52.1 78.1
175 4.3 4.0 6.0





#74
 1,2,4-Trimethylbenzene
 Concen: 0.28 ppbv
 RT: 17.03 min Scan# 4957
 Delta R.T. -0.02 min
 Lab File: VL032198.D
 Acq: 3 Jul 2018 1:44

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-3DL

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	34.6	38.8	58.2#
91	11.0	33.6	50.4#
77	15.5	16.0	24.0#

Manual Integrations
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 7/3/2018 5:17:24 PM

