

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070218\
 Data File : VL032200.D
 Acq On : 3 Jul 2018 3:04
 Operator : SY/AP
 Sample : J3735-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DL

Manual Integrations
 APPROVED

MMDadoda
 7/3/2018 5:17:26 PM

Quant Time: Jul 03 07:02:53 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 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	5.84	49	1438362	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3593208	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3246994	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.67	95	2436818	9.82	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.11	41	1787601m	21.82	ppbv	
10) Heptane	8.34	43	251078	1.05	ppbv	99
11) Trichlorofluoromethane	4.07	101	51052	0.25	ppbv	98
13) Ethanol	3.72	45	29240m	1.18	ppbv	
15) Acetone	3.99	43	799993	4.76	ppbv #	67
26) Hexane	5.86	57	702745	4.39	ppbv #	45
29) Chloroform	5.93	83	58359	0.25	ppbv	98
32) 1,1,1-Trichloroethane	6.70	97	28656	0.12	ppbv	96
34) 2-Butanone	5.42	43	57149	0.25	ppbv	99
36) Benzene	7.09	78	55712	0.16	ppbv	97
52) Tetrachloroethene	11.48	164	65879m	0.52	ppbv	
53) Toluene	10.04	91	455281	1.08	ppbv	99
58) Ethyl Benzene	12.96	91	132218m	0.25	ppbv	
59) m/p-Xylene	13.22	91	404946m	0.97	ppbv	
60) o-Xylene	13.94	91	174443m	0.42	ppbv	
72) 4-Ethyltoluene	16.10	105	57324	0.11	ppbv #	94
73) 1,3,5-Trimethylbenzene	16.26	105	92622m	0.18	ppbv	
74) 1,2,4-Trimethylbenzene	17.02	105	244050	0.48	ppbv #	74

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

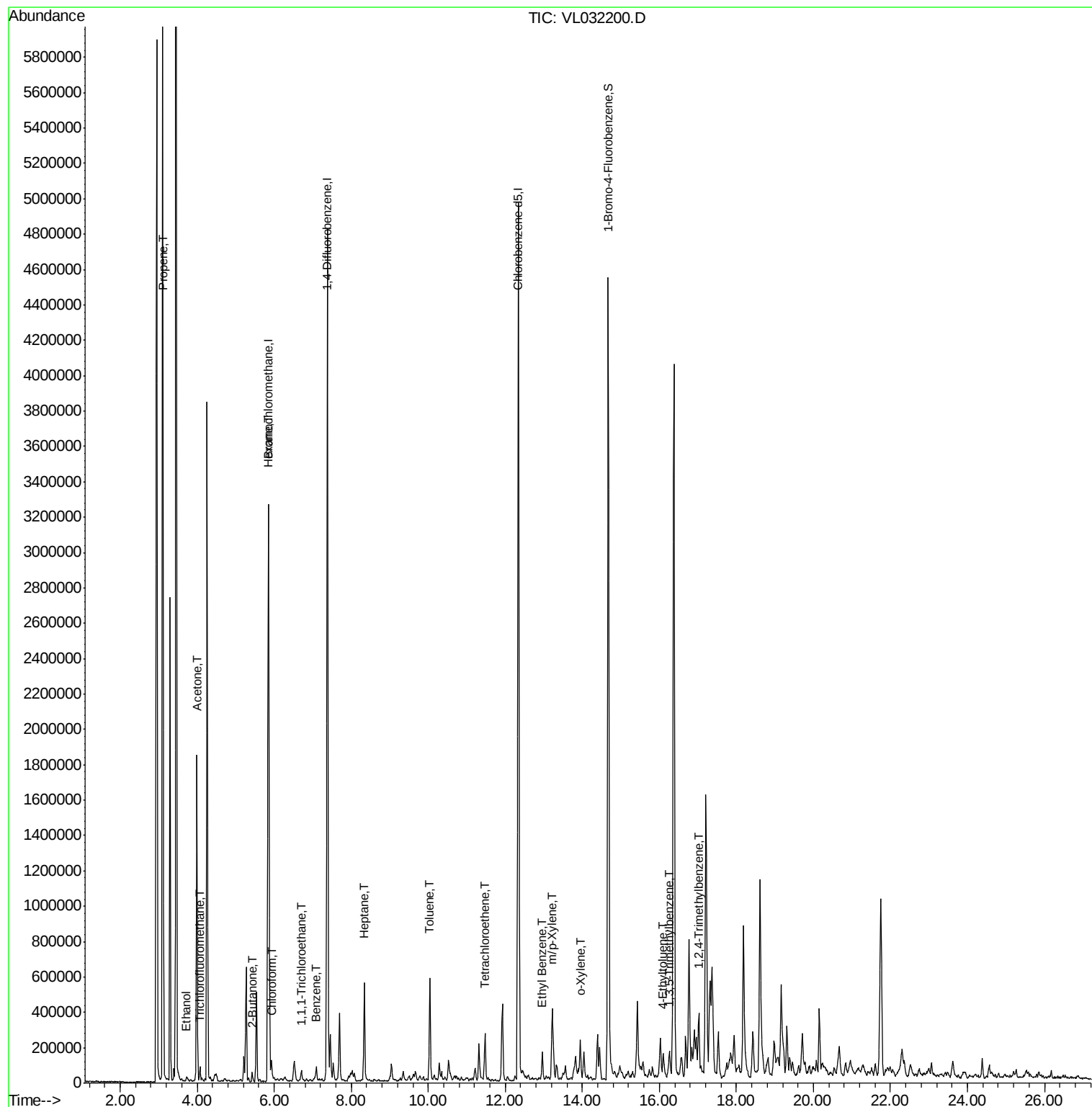
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL070218\
Data File : VL032200.D
Acq On : 3 Jul 2018 3:04
Operator : SY/AP
Sample : J3735-03DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

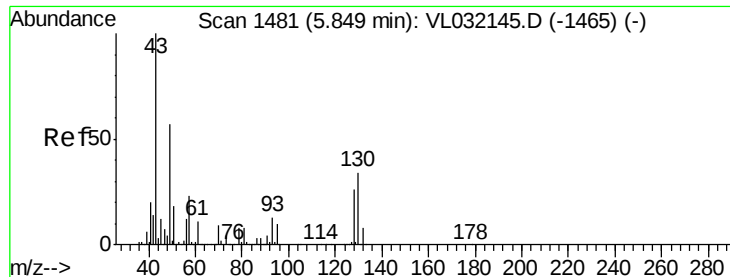
Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

Manual Integrations
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7/3/2018 5:17:26 PM

Quant Time: Jul 03 07:02:53 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration





#1

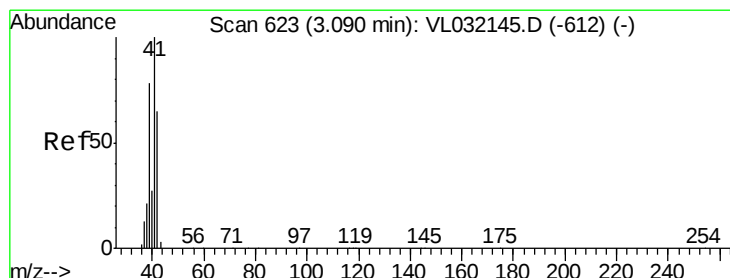
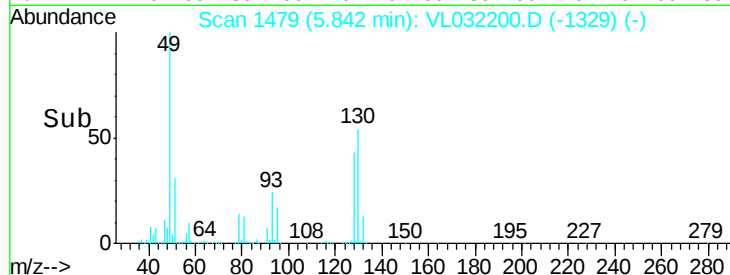
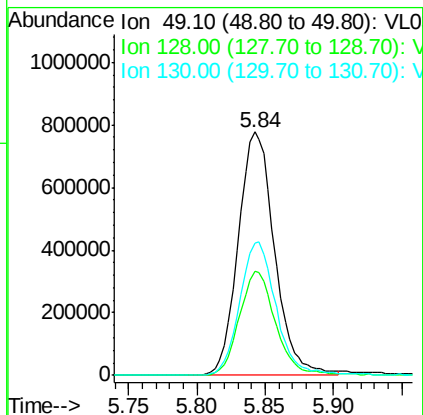
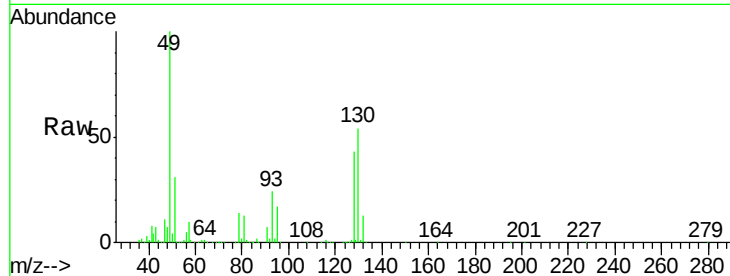
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.84 min Scan# 1479
 Delta R.T. -0.02 min
 Lab File: VL032200.D
 Acq: 3 Jul 2018 3:04

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DL

Tot Ion: 49 Resp: 1438362
 Ion Ratio Lower Upper
 49 100
 128 42.9 23.4 70.0
 130 55.1 30.3 90.9

Manual Integrations
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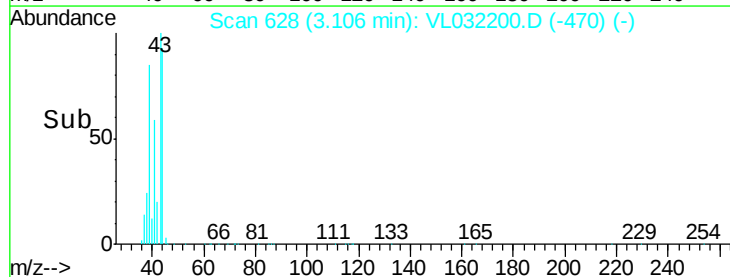
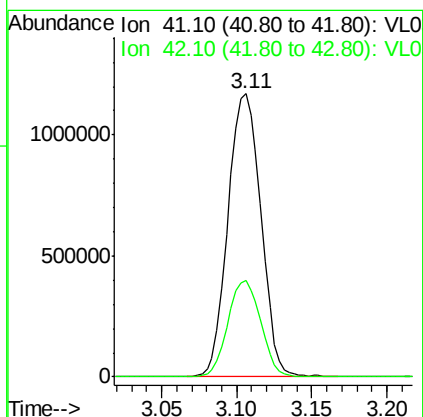
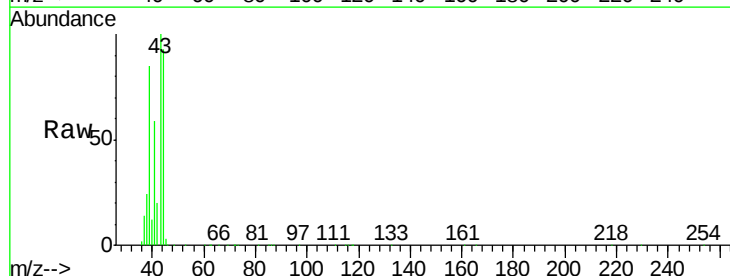
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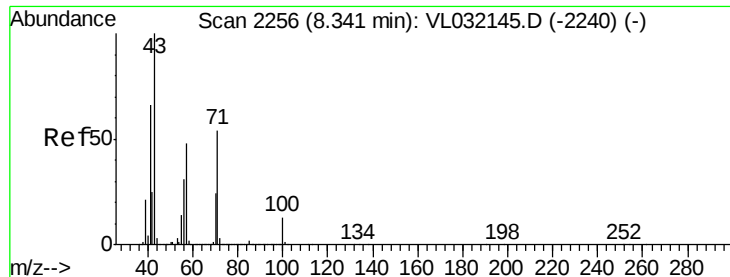


#9

Propene
 Concen: 21.82 ppbv m
 RT: 3.11 min Scan# 628
 Delta R.T. 0.01 min
 Lab File: VL032200.D
 Acq: 3 Jul 2018 3:04

Tgt Ion: 41 Resp: 1787601
 Ion Ratio Lower Upper
 41 100
 42 28.9 56.2 84.4#





#10

Heptane

Concen: 1.05 ppbv

RT: 8.34 min Scan# 2255

Delta R.T. -0.02 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

Tot Ion: 43 Resp: 251078

Ion Ratio Lower Upper

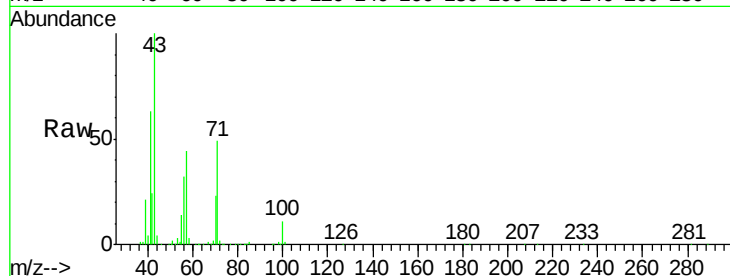
43 100

57 50.2 39.8 59.8

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

Ion 57.10 (56.80 to 57.80): VL0

8.34

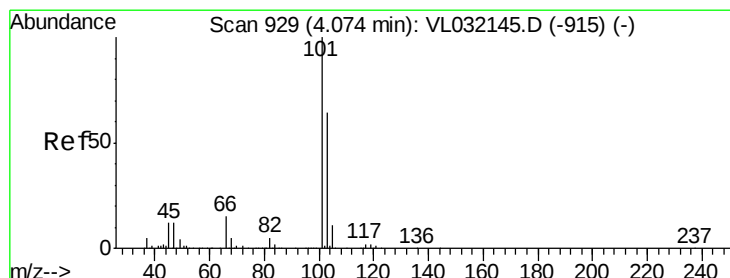
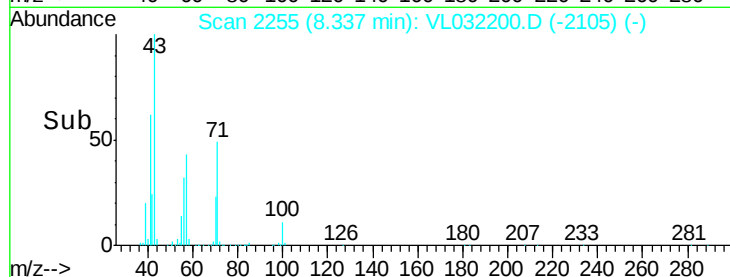
150000

100000

50000

0

Time-->



#11

Trichlorofluoromethane

Concen: 0.25 ppbv

RT: 4.07 min Scan# 929

Delta R.T. -0.01 min

Lab File: VL032200.D

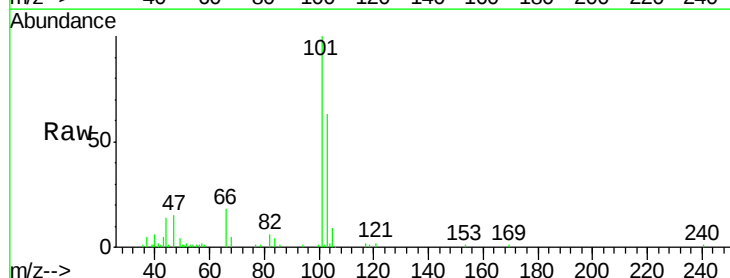
Acq: 3 Jul 2018 3:04

Tgt Ion: 101 Resp: 51052

Ion Ratio Lower Upper

101 100

103 63.0 51.4 77.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

4.07

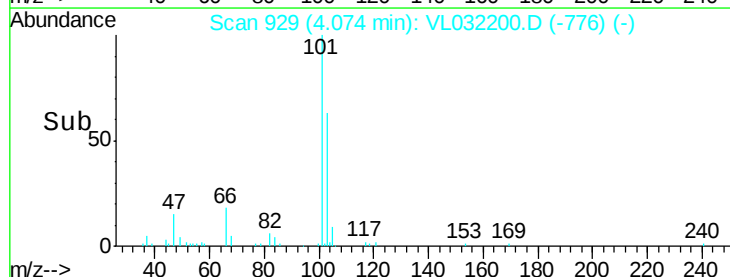
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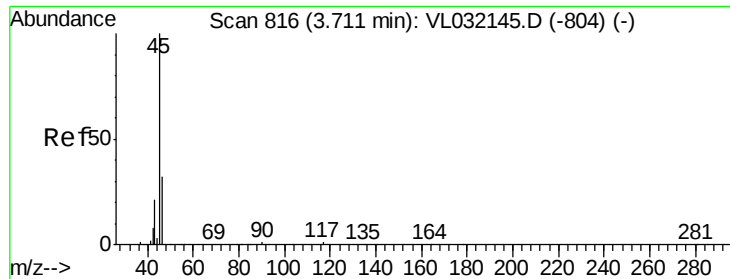
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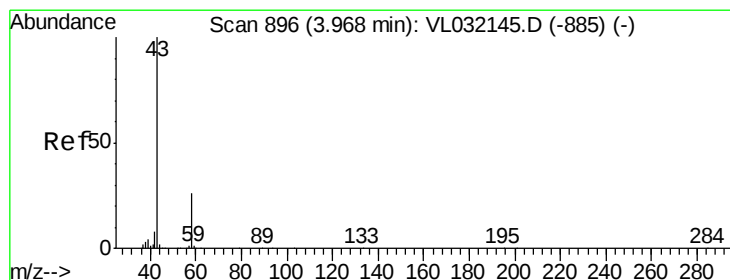
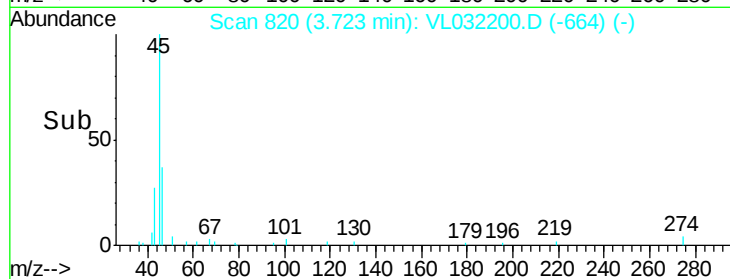
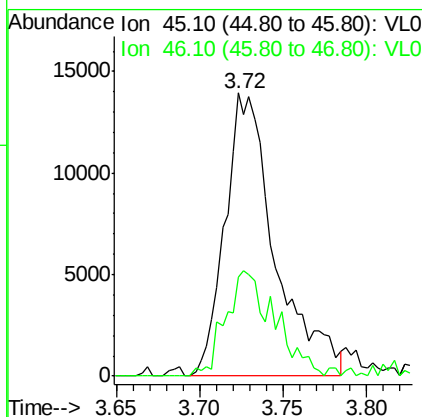
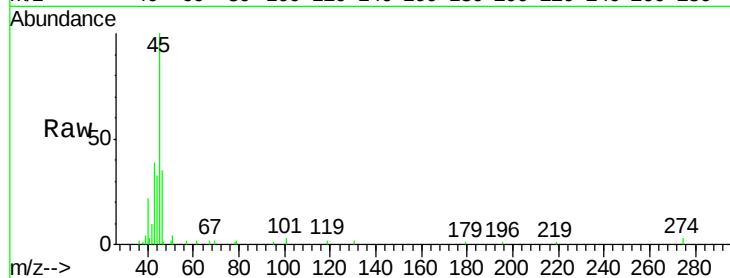
#13
Ethanol
Concen: 1.18 ppbv m
RT: 3.72 min Scan# 820
Delta R.T. 0.00 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

Tot Ion	45	46	Ratio	Lower	Upper
29240	100	36.9		14.6	58.4

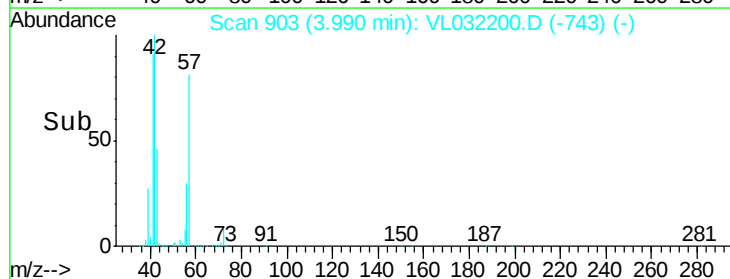
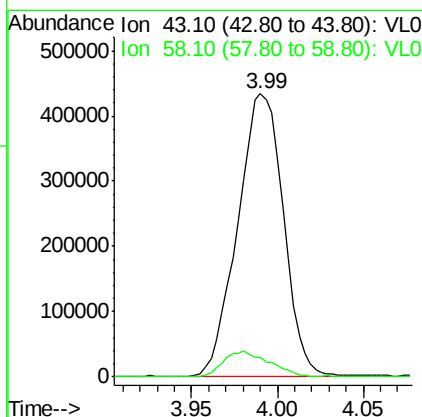
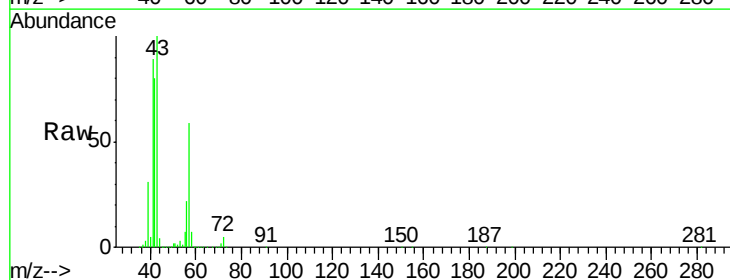
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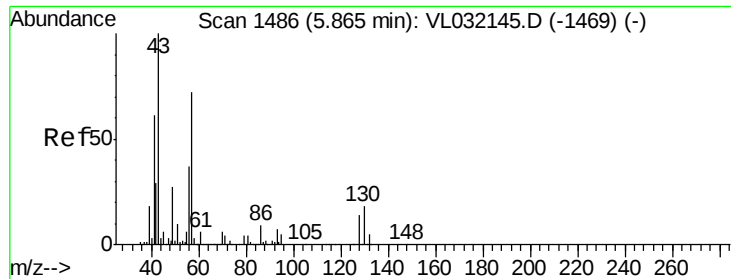
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#15
Acetone
Concen: 4.76 ppbv
RT: 3.99 min Scan# 903
Delta R.T. 0.01 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Tgt Ion	43	58	Ratio	Lower	Upper
799993	100	9.6		21.4	32.0#





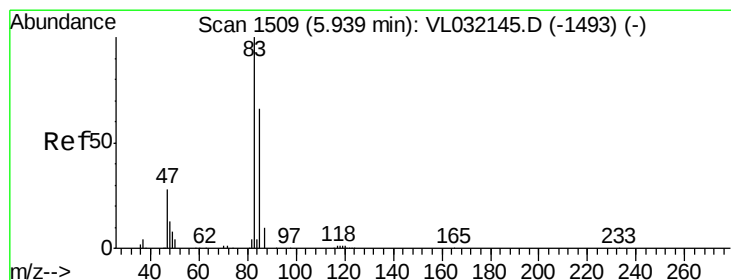
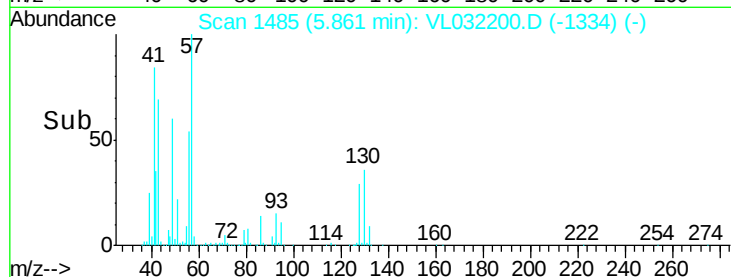
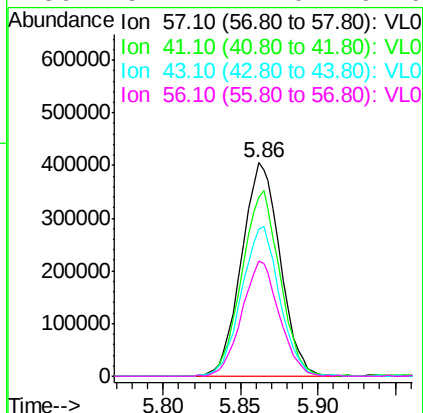
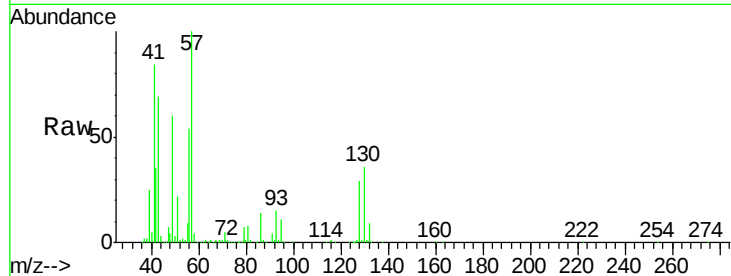
#26
Hexane
Concen: 4.39 ppbv
RT: 5.86 min Scan# 1485
Delta R.T. -0.02 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	85.9	68.6	103.0
43	69.4	168.6	252.8#
56	52.7	41.0	61.6

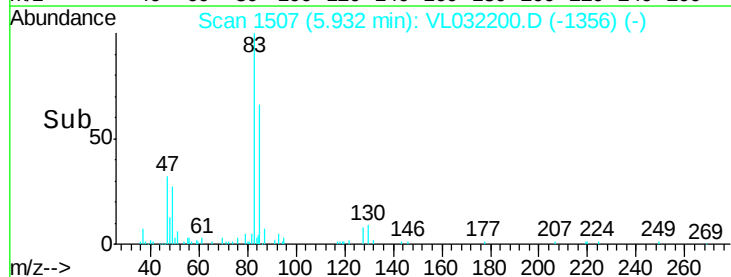
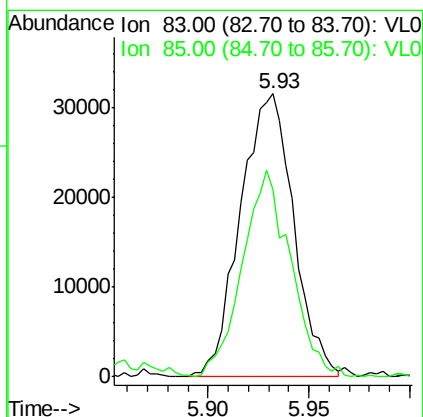
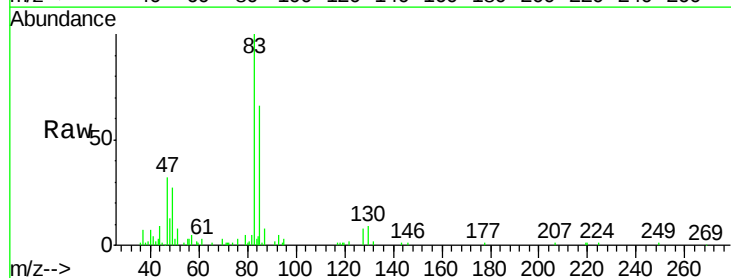
Manual Integrations
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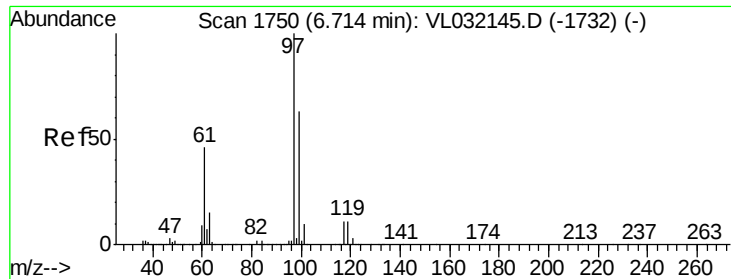
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#29
Chloroform
Concen: 0.25 ppbv
RT: 5.93 min Scan# 1507
Delta R.T. -0.02 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	51.6	77.4





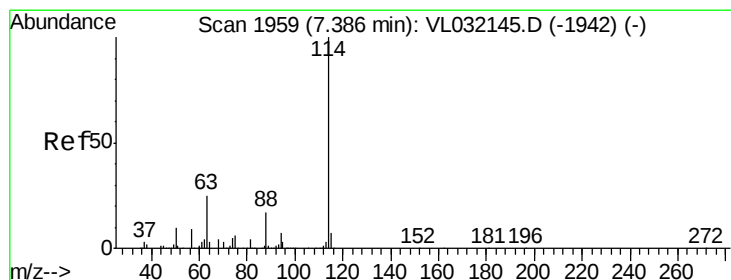
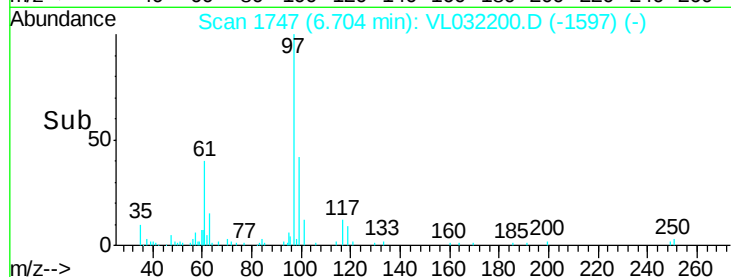
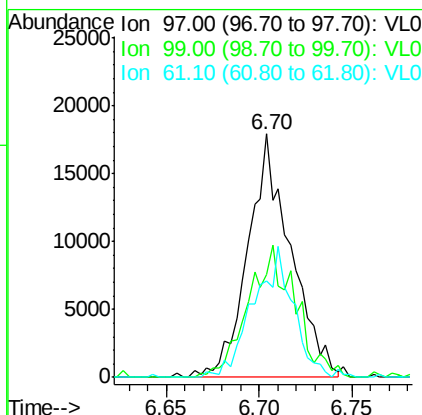
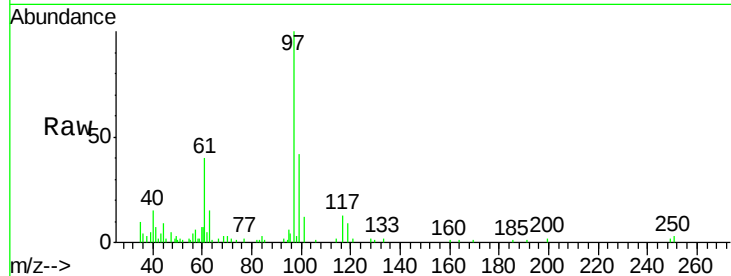
#32
 1,1,1-Trichloroethane
 Concen: 0.12 ppbv
 RT: 6.70 min Scan# 1747
 Delta R.T. -0.02 min
 Lab File: VL032200.D
 Acq: 3 Jul 2018 3:04

Instrument :
 MSVOA_L
 ClientSampleId :
 SS-2DL

Tot Ion	Ratio	Lower	Upper
97	100		
99	60.8	51.3	76.9
61	50.5	38.4	57.6

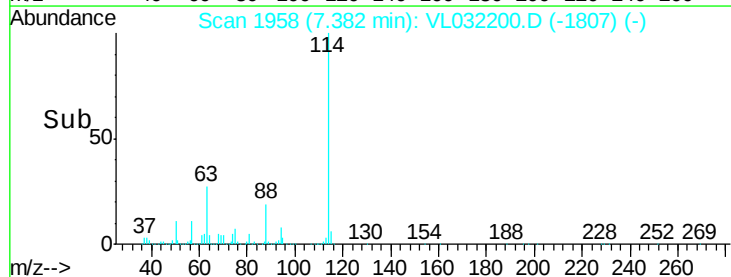
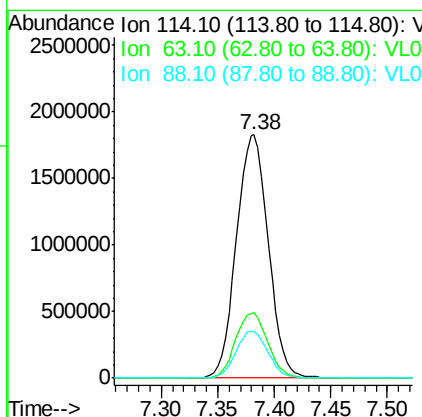
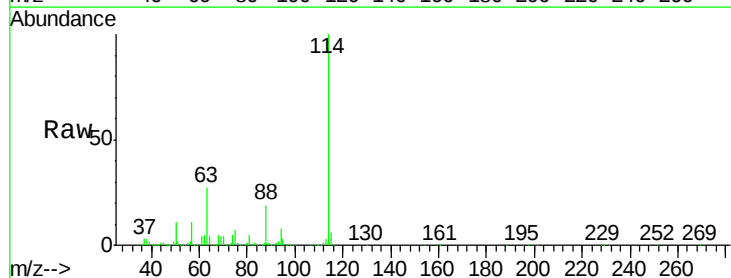
Manual Integrations
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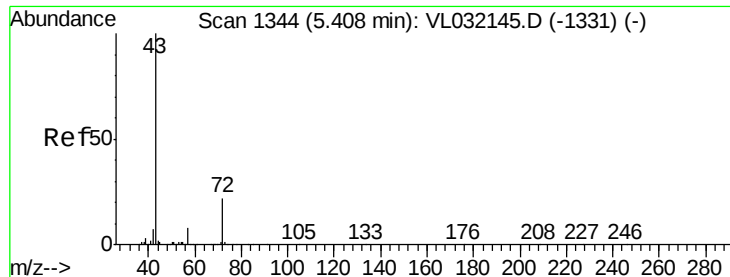
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#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1958
 Delta R.T. -0.02 min
 Lab File: VL032200.D
 Acq: 3 Jul 2018 3:04

Tgt Ion	Ratio	Lower	Upper
114	100		
63	27.1	19.1	28.7
88	19.3	13.9	20.9





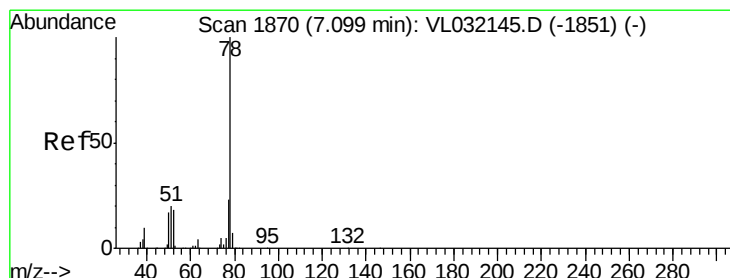
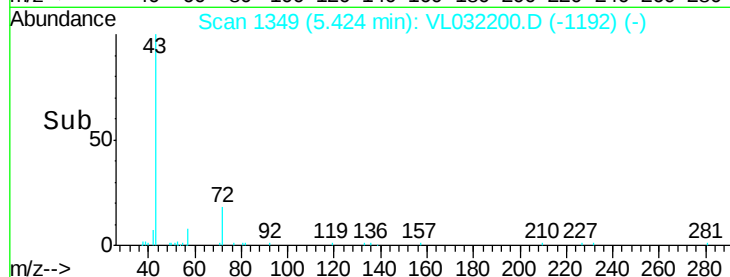
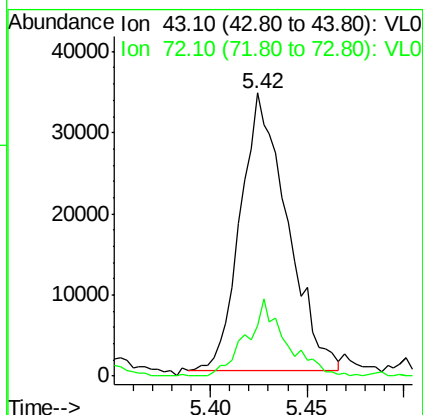
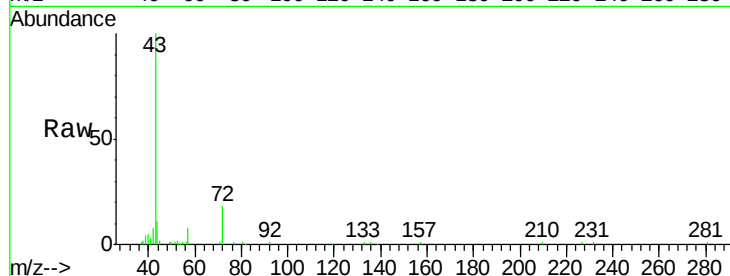
#34
2-Butanone
Concen: 0.25 ppbv
RT: 5.42 min Scan# 1349
Delta R.T. 0.00 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Instrument :
MSVOA_L
ClientSampleId :
SS-2DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	23.7	18.4	27.6

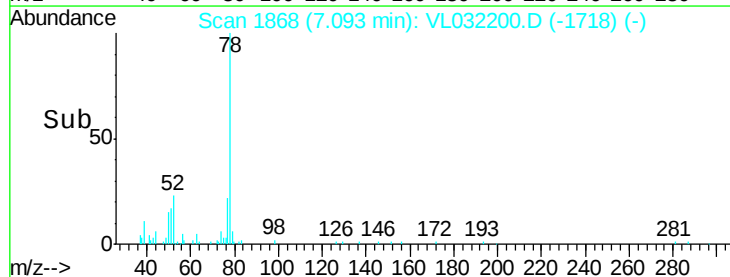
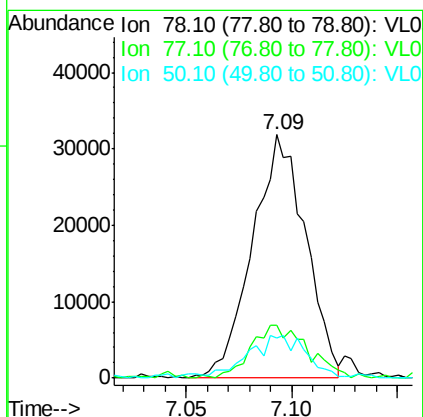
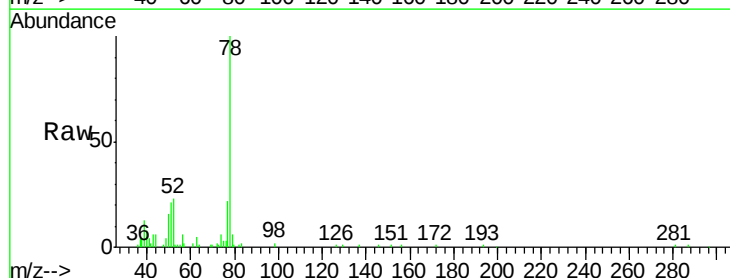
Manual Integrations
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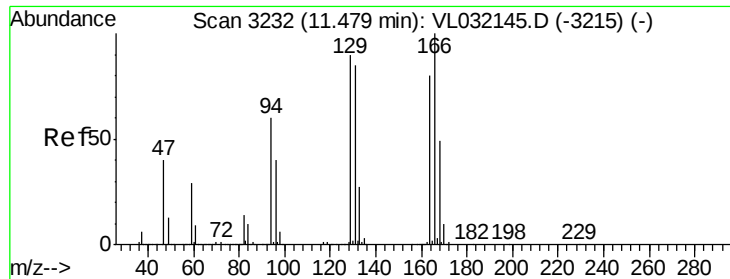
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#36
Benzene
Concen: 0.16 ppbv
RT: 7.09 min Scan# 1868
Delta R.T. -0.02 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.6	17.7	26.5
50	15.6	14.0	21.0





#52

Tetrachloroethene

Concen: 0.52 ppbv m

RT: 11.48 min Scan# 3231

Delta R.T. -0.02 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

Tot Ion:164 Resp: 65879

Ion Ratio Lower Upper

164 100

166 116.5 100.6 151.0

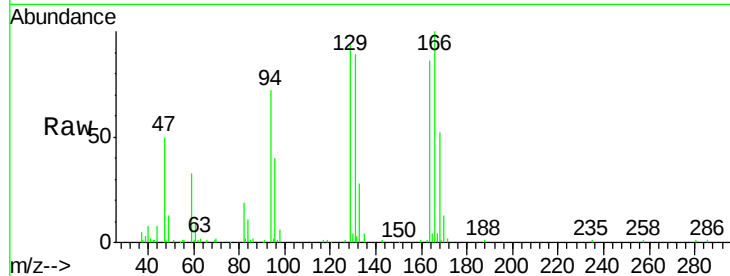
129 109.7 84.0 126.0

131 103.4 82.7 124.1

Manual Integrations
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7/3/2018 5:17:26 PM

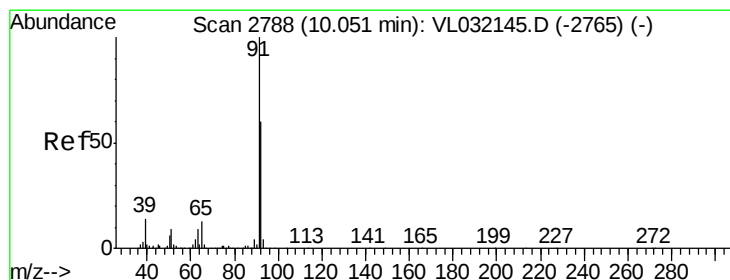
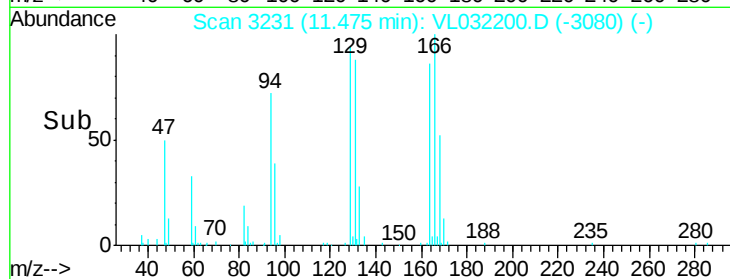
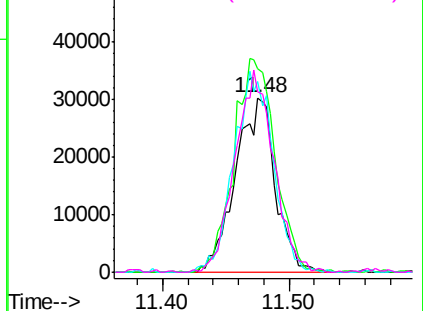


Abundance Ion 163.90 (163.60 to 164.60): V

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: 1.08 ppbv

RT: 10.04 min Scan# 2785

Delta R.T. -0.02 min

Lab File: VL032200.D

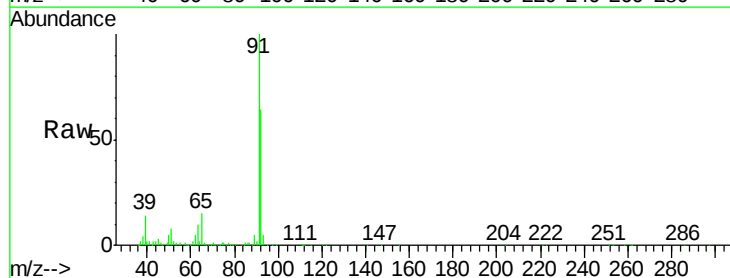
Acq: 3 Jul 2018 3:04

Tgt Ion: 91 Resp: 455281

Ion Ratio Lower Upper

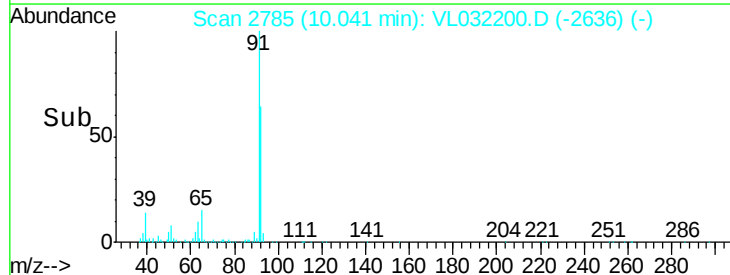
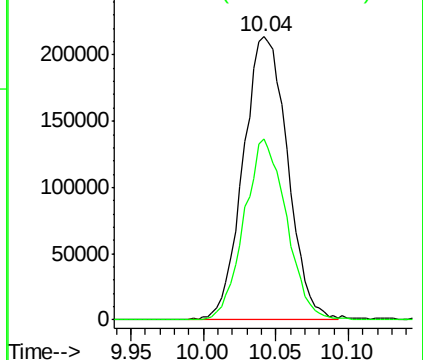
91 100

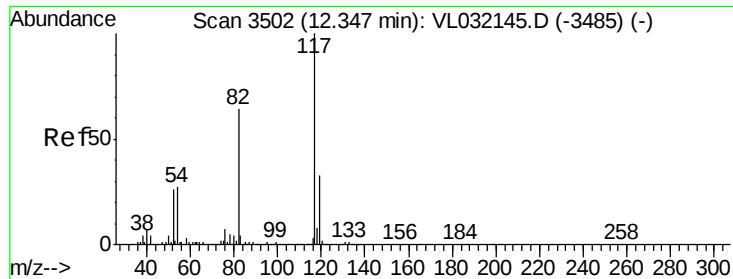
92 61.0 49.2 73.8



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





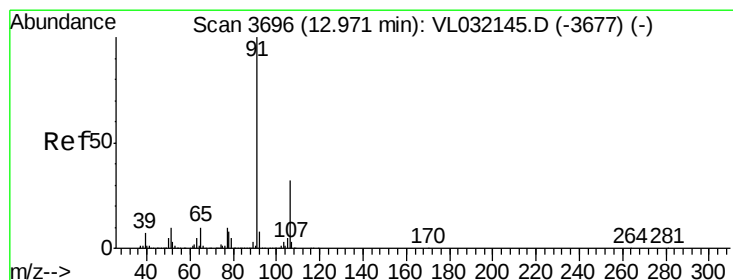
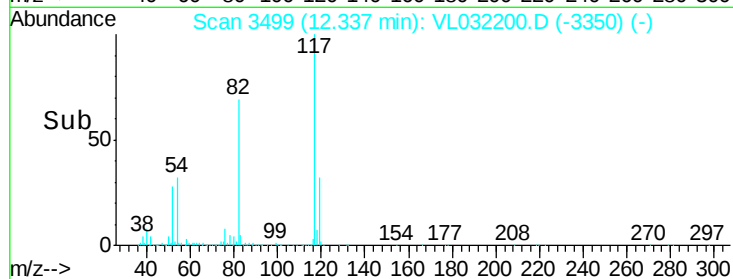
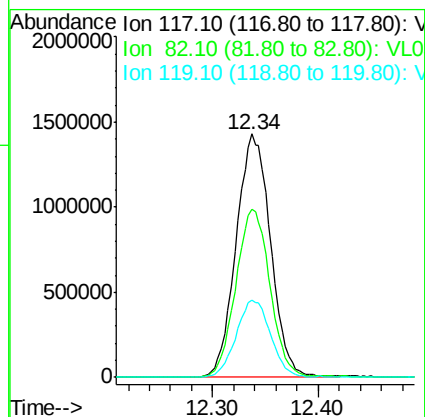
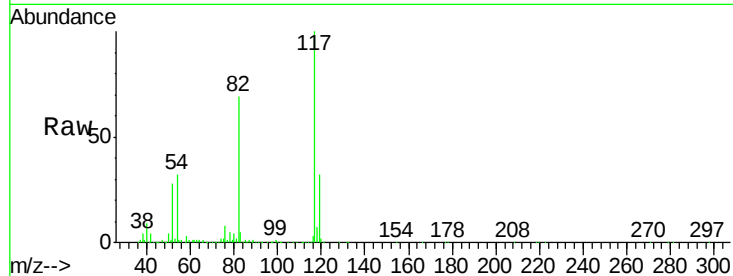
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.34 min Scan# 3499
Delta R.T. -0.02 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Instrument :
MSVOA_L
ClientSampled :
SS-2DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	69.4	47.8	71.8
119	32.0	43.3	64.9

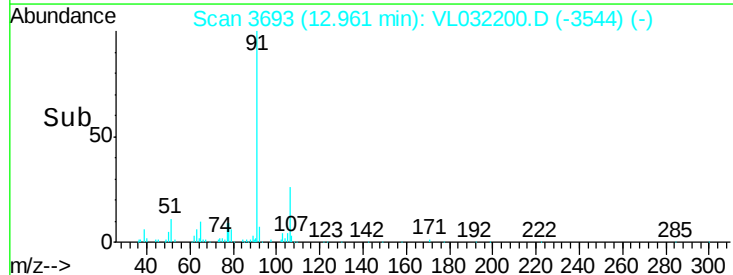
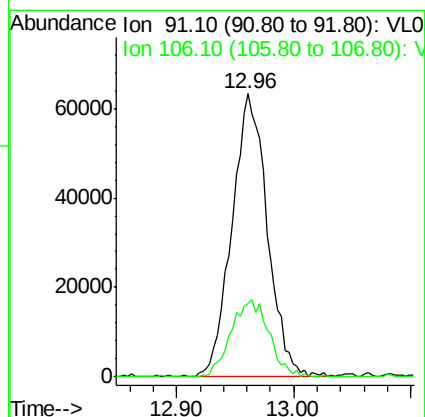
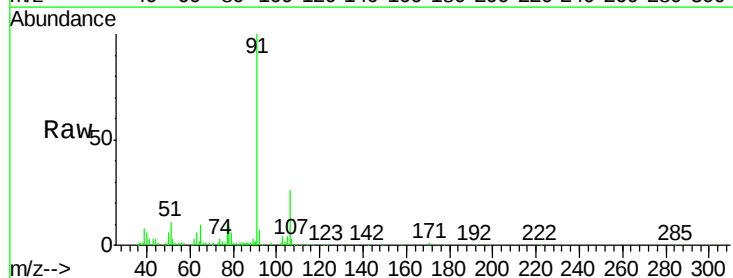
Manual Integrations
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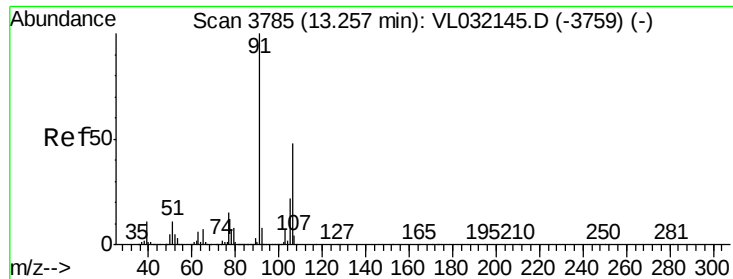
MMDadoda
7/3/2018 5:17:26 PM



#58
Ethyl Benzene
Concen: 0.25 ppbv m
RT: 12.96 min Scan# 3693
Delta R.T. -0.02 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.8	26.5	39.7





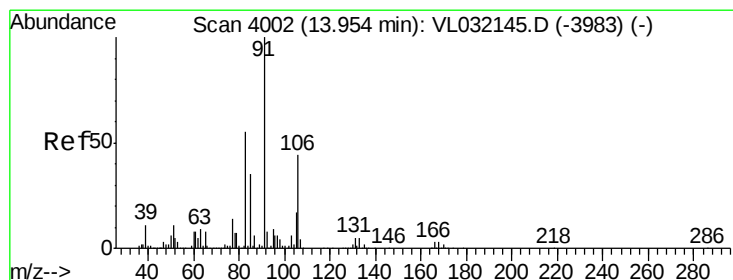
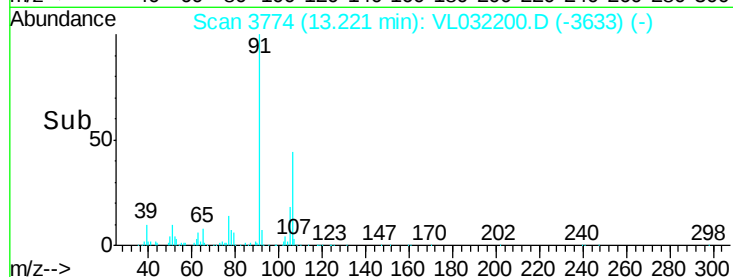
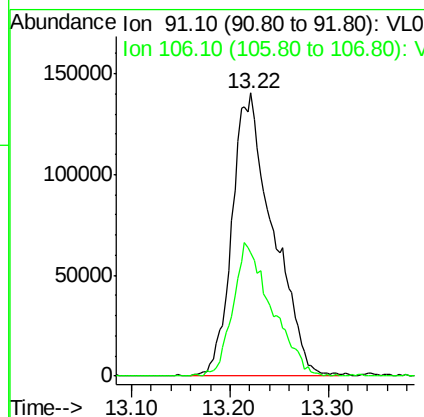
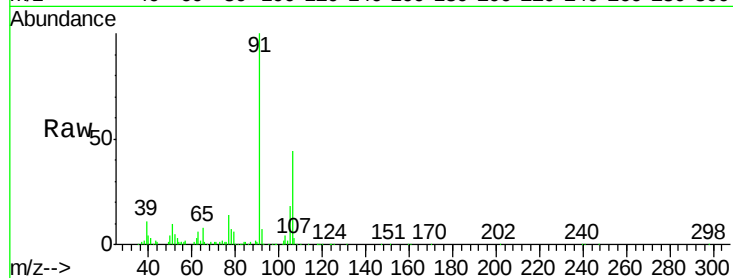
#59
m/p-Xylene
Concen: 0.97 ppbv m
RT: 13.22 min Scan# 3774
Delta R.T. -0.05 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Instrument :
MSVOA_L
ClientSampled :
SS-2DL

Tot Ion: 91 Resp: 404946
Ion Ratio Lower Upper
91 100
106 0.0 38.6 58.0#

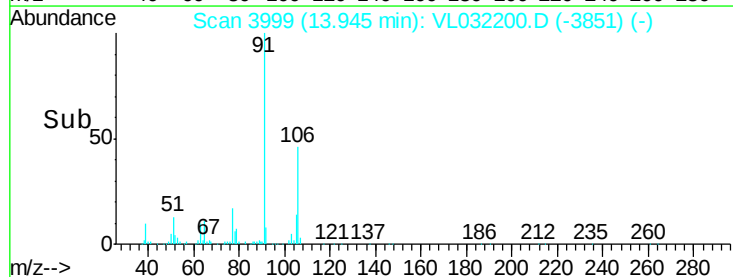
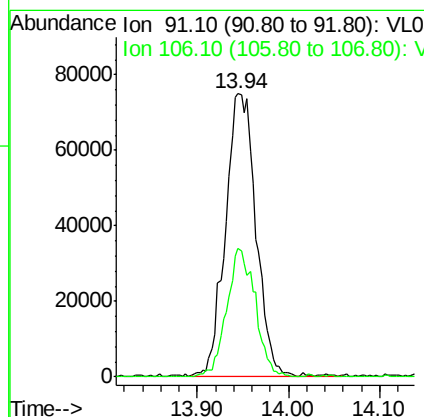
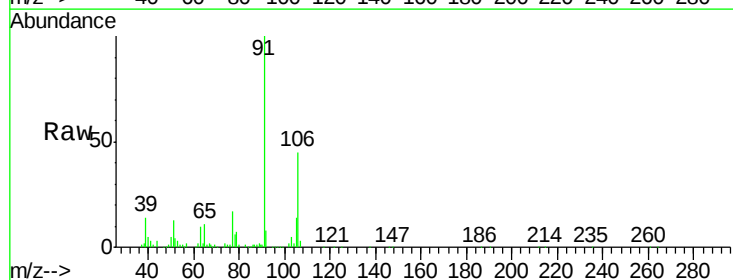
Manual Integrations
APPROVED

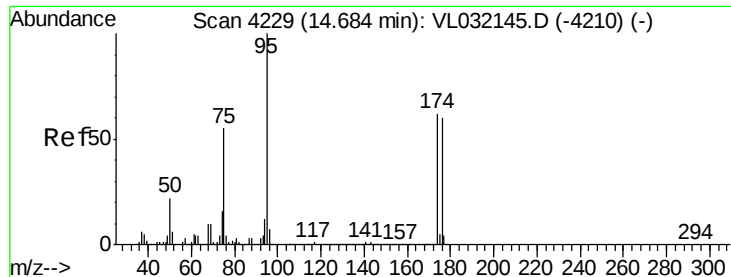
MMDadoda
7/3/2018 5:17:26 PM



#60
o-Xylene
Concen: 0.42 ppbv m
RT: 13.94 min Scan# 3999
Delta R.T. -0.03 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Tgt Ion: 91 Resp: 174443
Ion Ratio Lower Upper
91 100
106 42.3 23.3 69.8





#68

1-Bromo-4-Fluorobenzene

Concen: 9.82 ppbv

RT: 14.67 min Scan# 4226

Delta R.T. -0.02 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Instrument :

MSVOA_L

ClientSampleId :

SS-2DL

Tot Ion: 95 Resp: 2436818

Ion Ratio Lower Upper

95 100

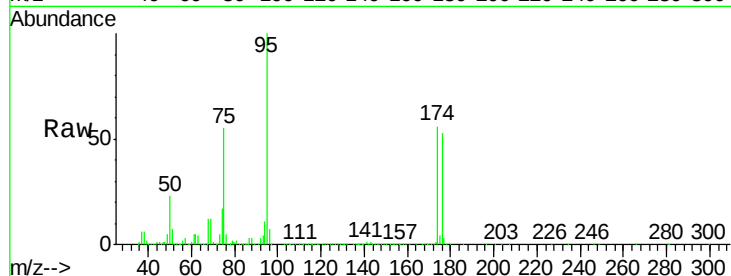
174 56.9 52.1 78.1

175 4.1 4.0 6.0

Manual Integrations
APPROVED

MMDadoda

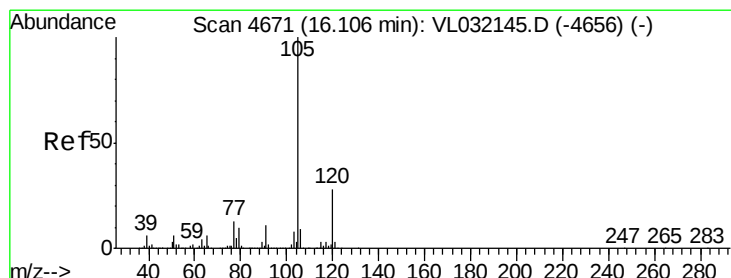
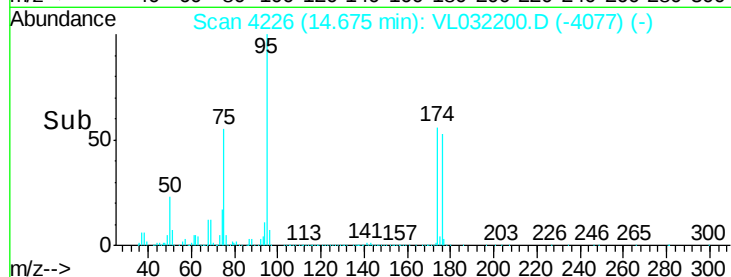
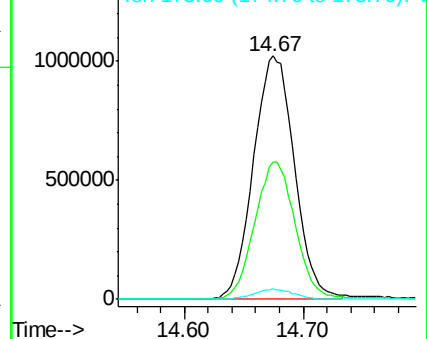
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Abundance Ion 95.10 (94.80 to 95.80): VL0

Ion 174.00 (173.70 to 174.70): V

Ion 175.00 (174.70 to 175.70): V



#72

4-Ethyltoluene

Concen: 0.11 ppbv

RT: 16.10 min Scan# 4669

Delta R.T. -0.02 min

Lab File: VL032200.D

Acq: 3 Jul 2018 3:04

Tgt Ion: 105 Resp: 57324

Ion Ratio Lower Upper

105 100

120 30.1 24.3 36.5

91 16.7 9.4 14.0#

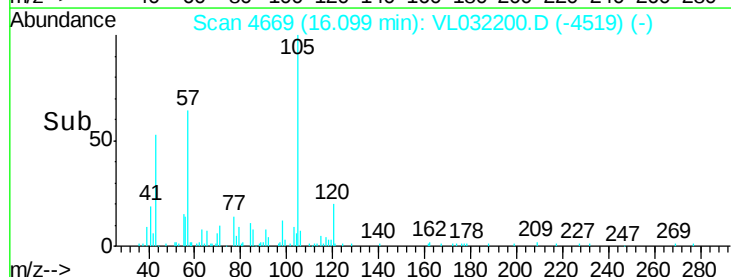
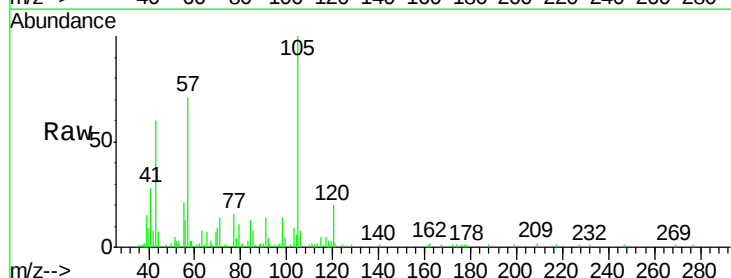
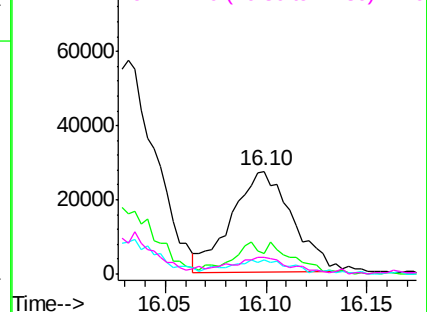
77 17.8 10.2 15.2#

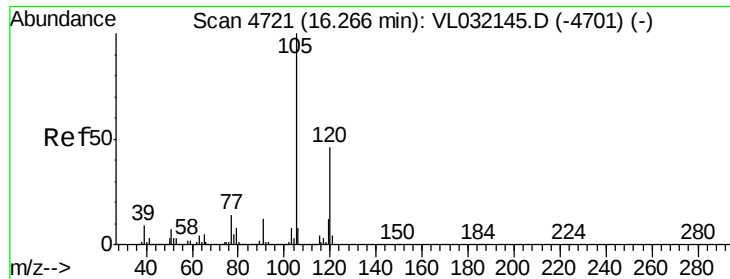
Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

Ion 91.10 (90.80 to 91.80): VL0

Ion 77.10 (76.80 to 77.80): VL0





#73

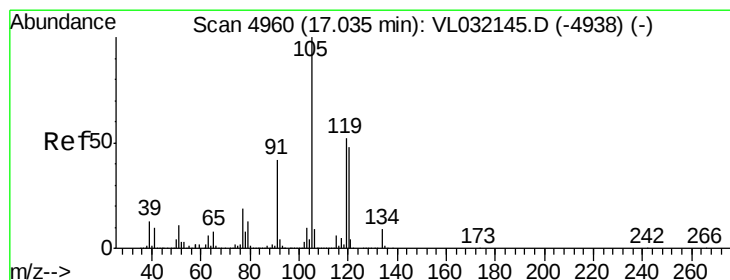
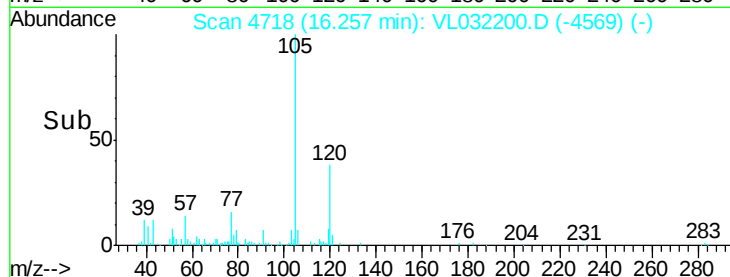
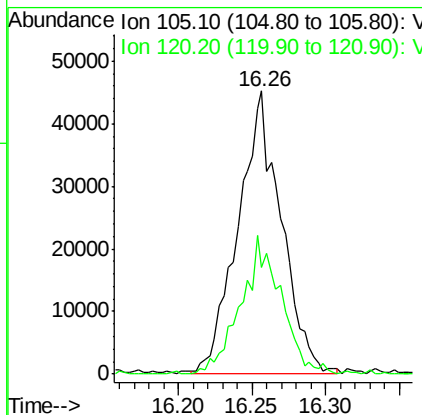
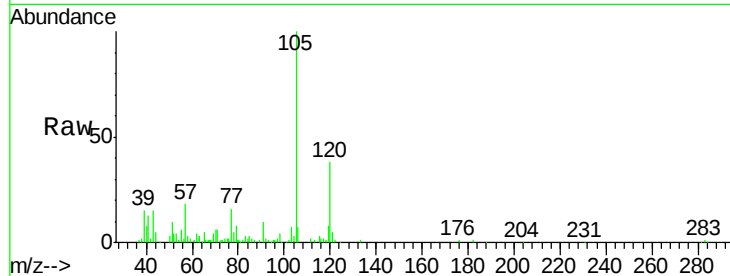
1,3,5-Trimethylbenzene
Concen: 0.18 ppbv m
RT: 16.26 min Scan# 4718
Delta R.T. -0.02 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Instrument :
MSVOA_L
ClientSampled :
SS-2DL

Tot Ion	Ratio	Lower	Upper
105	100		
120	37.7	38.6	57.8#

Manual Integrations
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7/3/2018 5:17:26 PM



#74

1,2,4-Trimethylbenzene
Concen: 0.48 ppbv
RT: 17.02 min Scan# 4956
Delta R.T. -0.03 min
Lab File: VL032200.D
Acq: 3 Jul 2018 3:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	37.6	38.8	58.2#
91	13.1	33.6	50.4#
77	15.8	16.0	24.0#

