

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL121118\
 Data File : VL032961.D
 Acq On : 11 Dec 2018 19:20
 Operator : SY/AP
 Sample : J6264-12DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A55G4DL

Manual Integrations
 APPROVED

MMDadoda
 12/13/2018 7:58:43 AM

Quant Time: Dec 12 16:39:09 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec 0
 QLast Update : Fri Dec 07 09:35:17 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.77	49	1342358	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3540183	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3427362	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2738950	10.82	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	108.20%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.17	50	11161	0.189	ppbv	93
9) Propene	3.04	41	28114m	0.699	ppbv	
10) Heptane	8.26	43	52923m	0.350	ppbv	
11) Trichlorofluoromethane	4.01	101	40323	0.239	ppbv	92
13) Ethanol	3.66	45	97374	7.035	ppbv	95
15) Acetone	3.90	43	2389815	20.742	ppbv	98
19) Isopropyl Alcohol	4.04	45	62916	0.870	ppbv #	95
26) Hexane	5.78	57	103029	0.820	ppbv #	44
27) Carbon Disulfide	4.62	76	43900	0.279	ppbv #	83
34) 2-Butanone	5.34	43	190354	1.234	ppbv	98
36) Benzene	7.01	78	145317	0.558	ppbv	94
44) 2,2,4-Trimethylpentane	7.99	57	98061	0.222	ppbv #	84
53) Toluene	9.95	91	320442	1.160	ppbv	97
62) Isopropylbenzene	14.83	105	1399955	2.997	ppbv	100

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

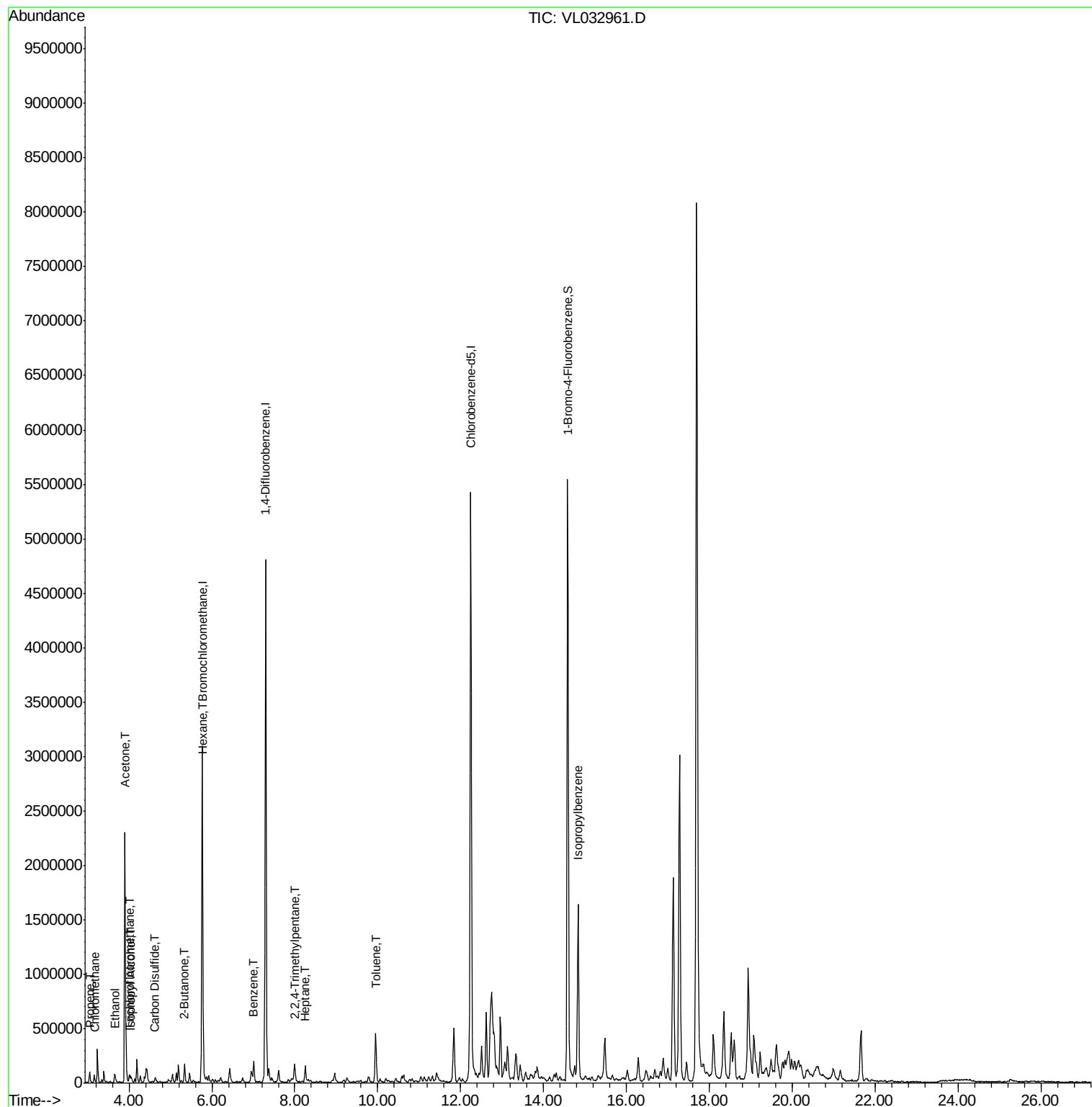
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL121118\
Data File : VL032961.D
Acq On : 11 Dec 2018 19:20
Operator : SY/AP
Sample : J6264-12DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

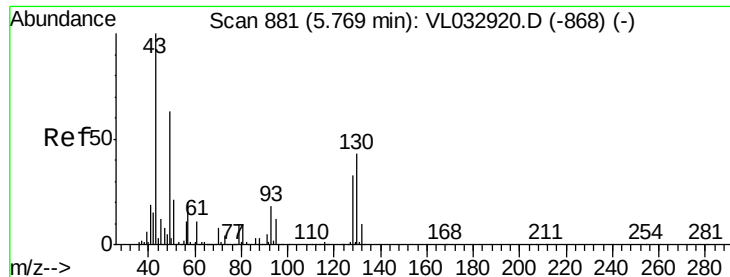
Instrument :
MSVOA_L
ClientSampleId :
A55G4DL

Manual Integrations
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12/13/2018 7:58:43 AM

Quant Time: Dec 12 16:39:09 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL120718AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Dec
QLast Update : Fri Dec 07 09:35:17 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.77 min Scan# 880

Delta R.T. -0.00 min

Lab File: VL032961.D

Acq: 11 Dec 2018 19:20

Instrument :

MSVOA_L

ClientSampleId :

A55G4DL

Tot Ion: 49 Resp: 1342358

Ion Ratio Lower Upper

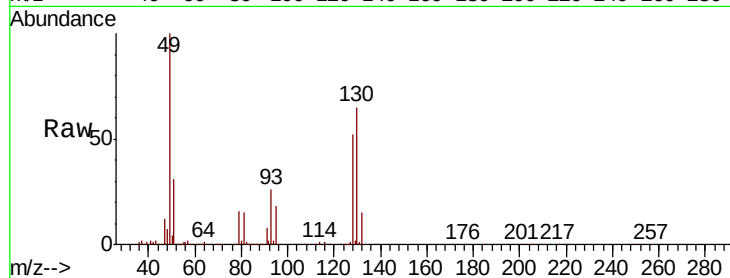
49 100

128 52.3 26.3 78.8

130 67.8 33.9 101.7

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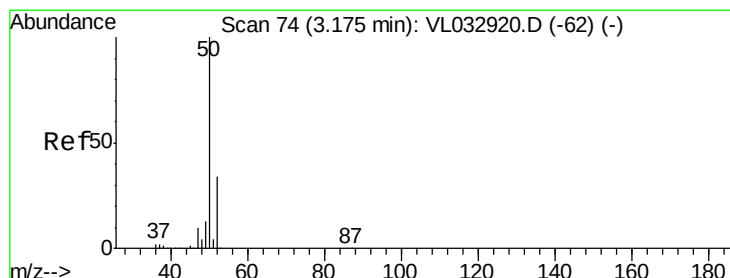
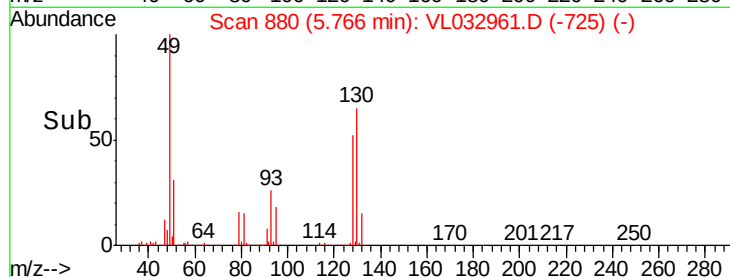
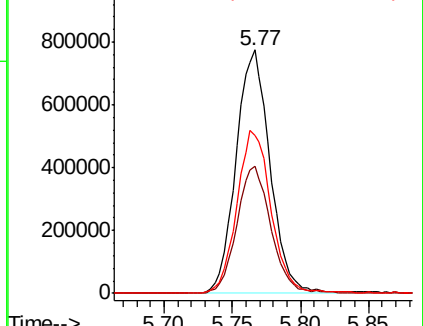
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#4

Chloromethane

Concen: 0.189 ppbv

RT: 3.17 min Scan# 74

Delta R.T. 0.00 min

Lab File: VL032961.D

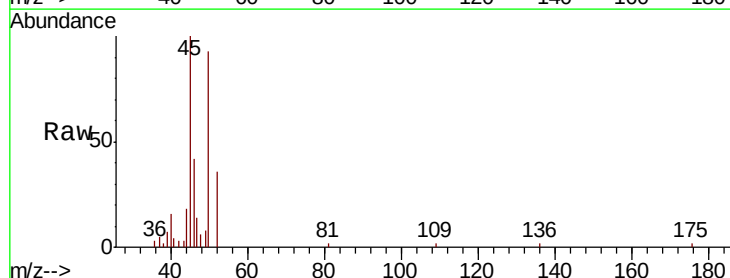
Acq: 11 Dec 2018 19:20

Tgt Ion: 50 Resp: 11161

Ion Ratio Lower Upper

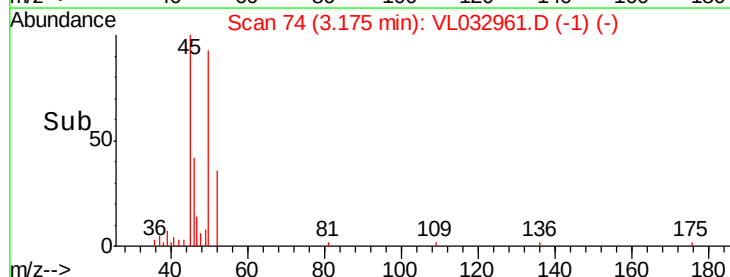
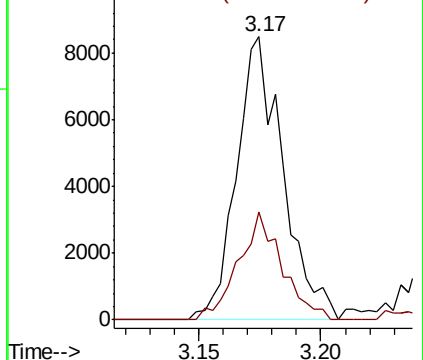
50 100

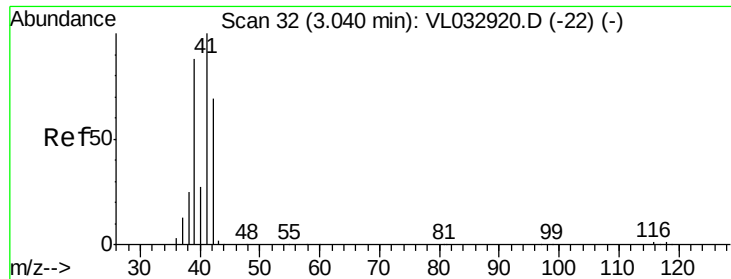
52 38.4 27.3 40.9



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.699 ppbv m

RT: 3.04 min Scan# 33

Delta R.T. 0.00 min

Lab File: VL032961.D

Acq: 11 Dec 2018 19:20

Instrument :

MSVOA_L

ClientSampleId :

A55G4DL

Tot Ion: 41 Resp: 28114

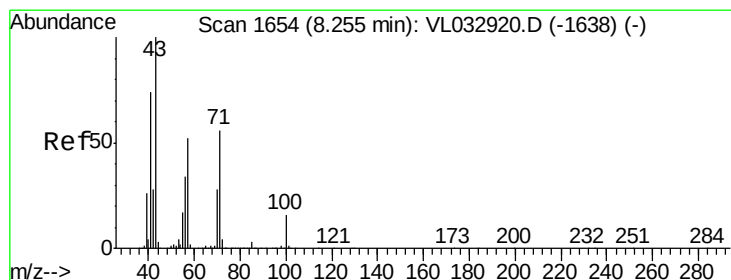
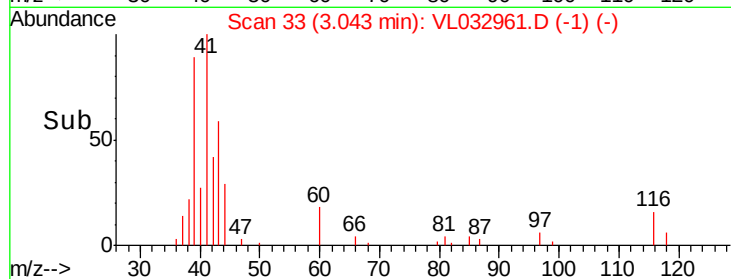
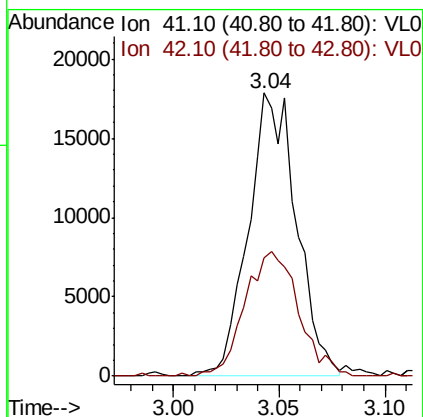
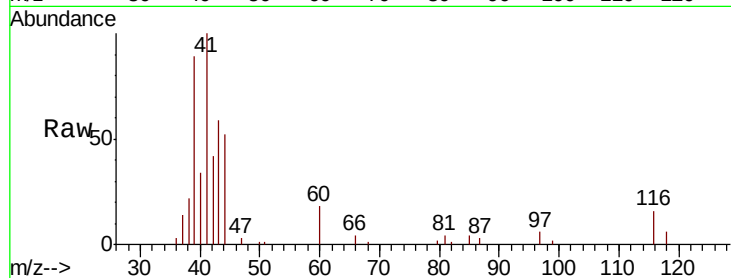
Ion Ratio Lower Upper

41 100

42 49.2 56.2 84.2#

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#10

Heptane

Concen: 0.350 ppbv m

RT: 8.26 min Scan# 1654

Delta R.T. 0.00 min

Lab File: VL032961.D

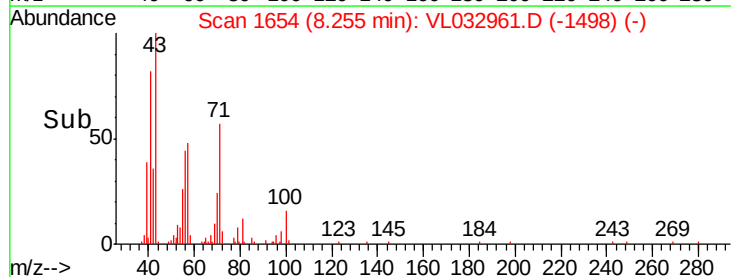
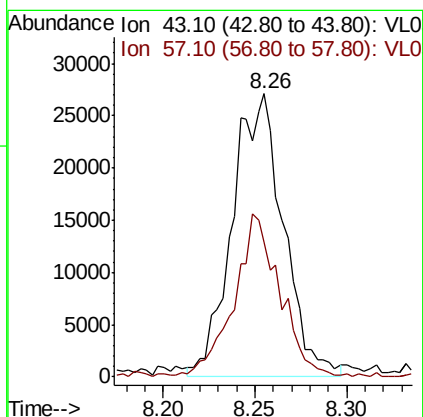
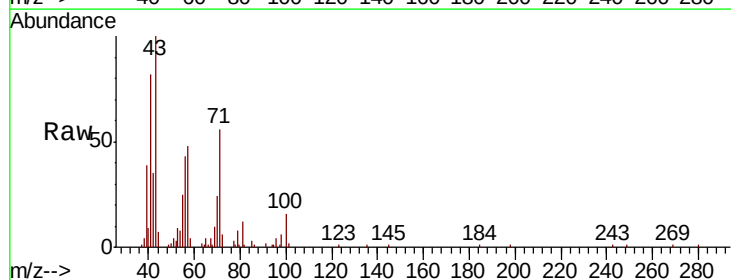
Acq: 11 Dec 2018 19:20

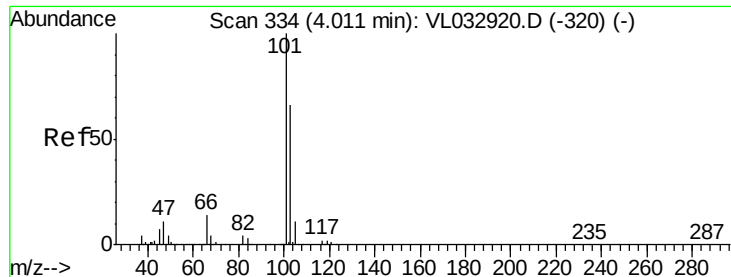
Tgt Ion: 43 Resp: 52923

Ion Ratio Lower Upper

43 100

57 51.9 41.8 62.6





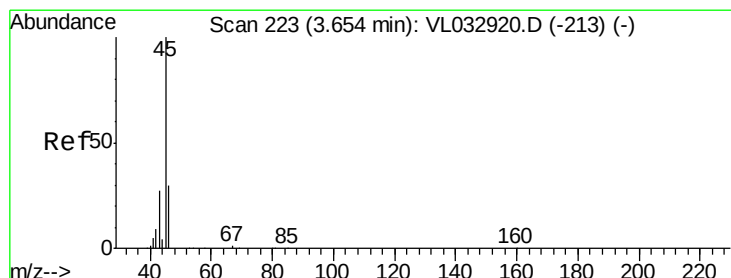
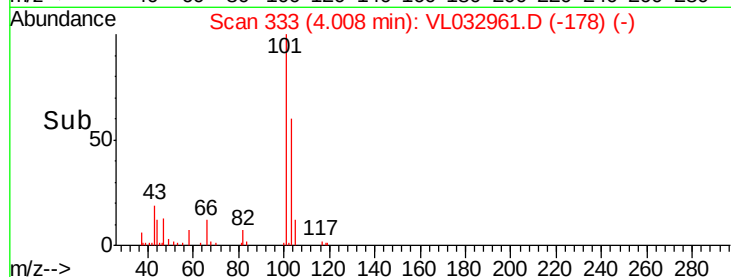
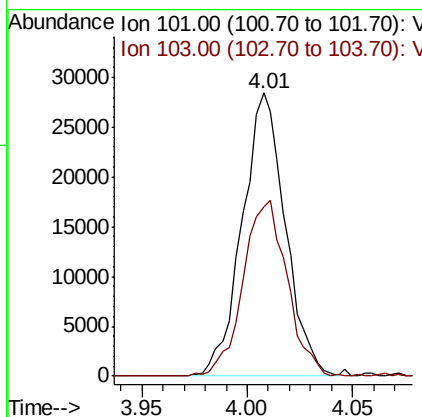
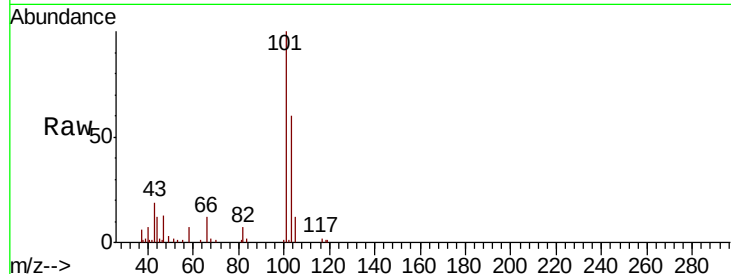
#11
Trichlorofluoromethane
Concen: 0.239 ppbv
RT: 4.01 min Scan# 333
Delta R.T. -0.00 min
Lab File: VL032961.D
Acq: 11 Dec 2018 19:20

Instrument :
MSVOA_L
ClientSampleId :
A55G4DL

Tot Ion:101 Resp: 40323
Ion Ratio Lower Upper
101 100
103 59.7 52.7 79.1

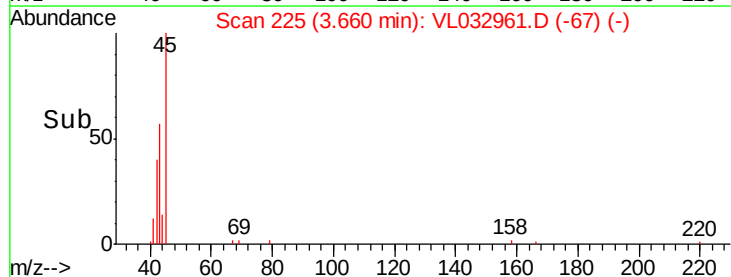
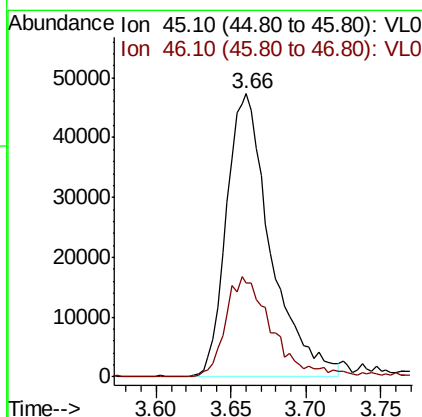
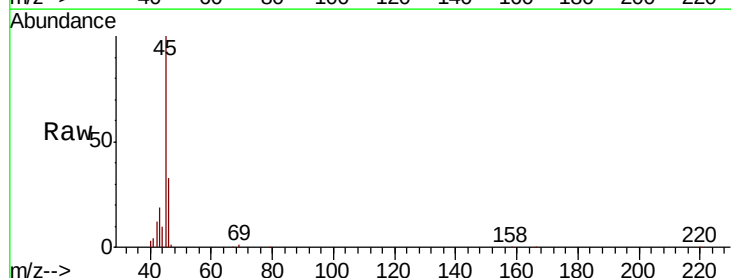
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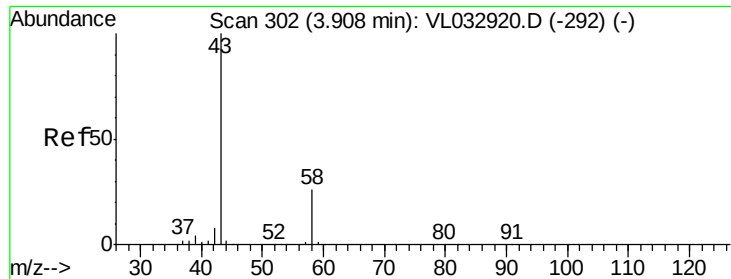
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#13
Ethanol
Concen: 7.035 ppbv
RT: 3.66 min Scan# 225
Delta R.T. 0.01 min
Lab File: VL032961.D
Acq: 11 Dec 2018 19:20

Tgt Ion: 45 Resp: 97374
Ion Ratio Lower Upper
45 100
46 37.6 13.8 55.4





#15

Acetone

Concen: 20.742 ppbv

RT: 3.90 min Scan# 300

Delta R.T. -0.01 min

Lab File: VL032961.D

Acq: 11 Dec 2018 19:20

Instrument :

MSVOA_L

ClientSampleId :

A55G4DL

Tot Ion: 43 Resp: 2389815

Ion Ratio Lower Upper

43 100

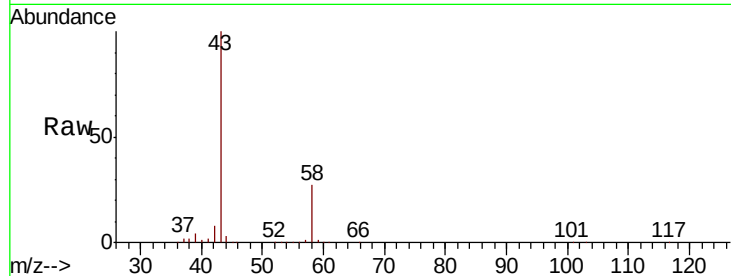
58 26.5 20.6 30.8

Manual Integrations

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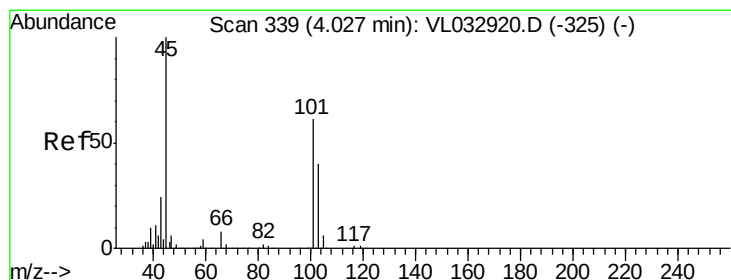
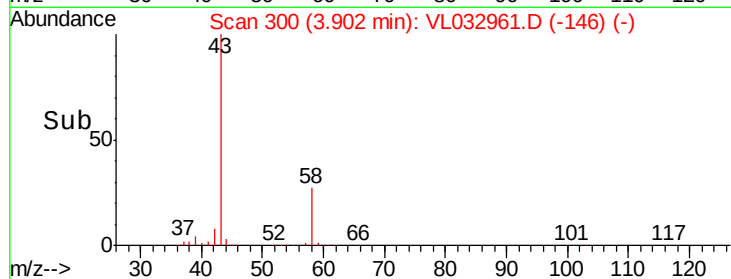
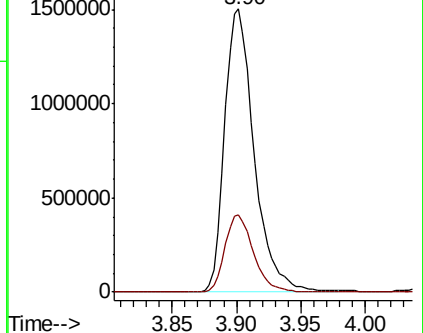
MMDadoda

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 0.870 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.01 min

Lab File: VL032961.D

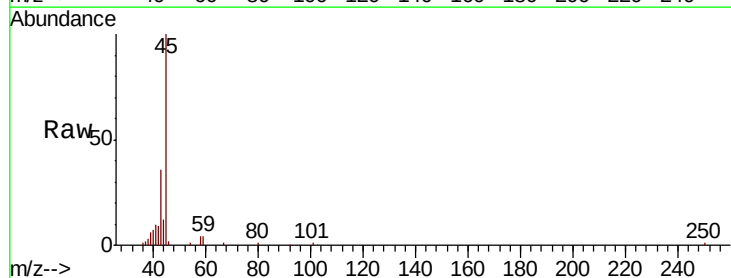
Acq: 11 Dec 2018 19:20

Tgt Ion: 45 Resp: 62916

Ion Ratio Lower Upper

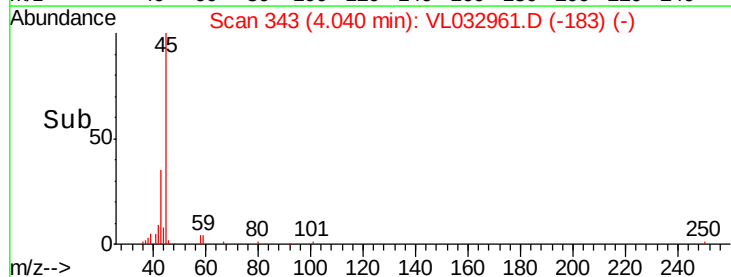
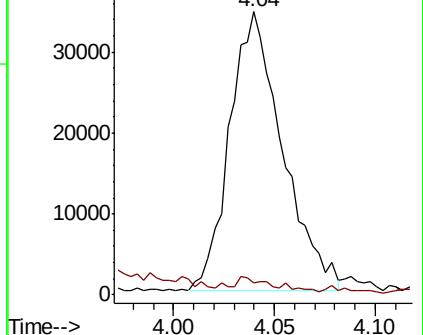
45 100

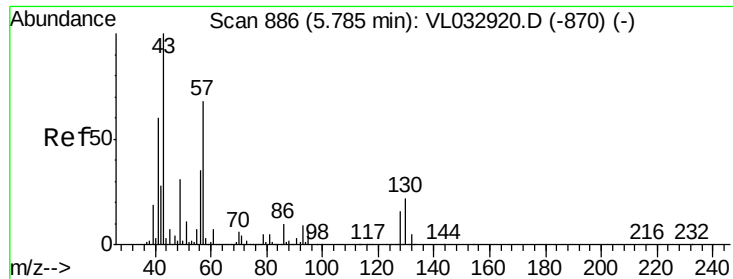
58 0.0 1.4 2.2#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





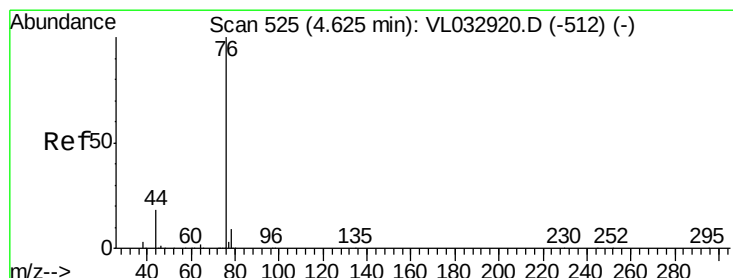
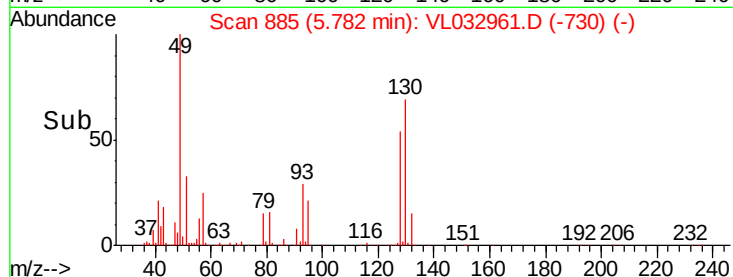
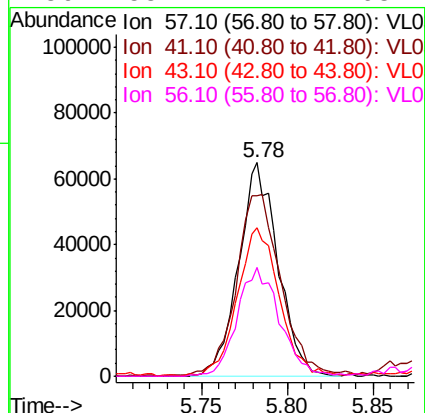
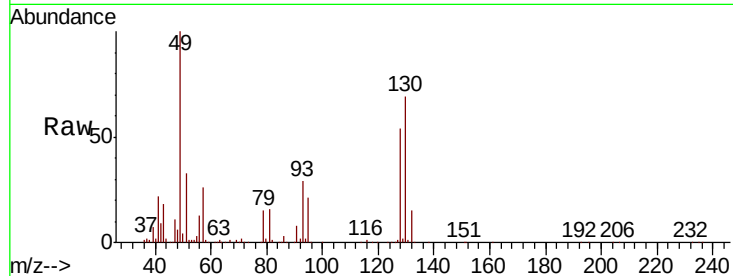
#26
Hexane
Concen: 0.820 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL032961.D
Acq: 11 Dec 2018 19:20

Instrument :
MSVOA_L
ClientSampleId :
A55G4DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	97.8	72.2	108.2
43	74.5	171.9	257.9#
56	55.7	42.2	63.2

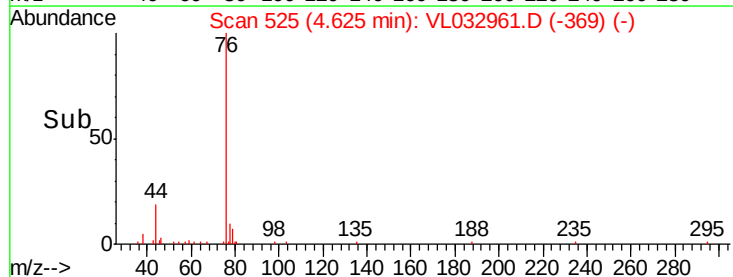
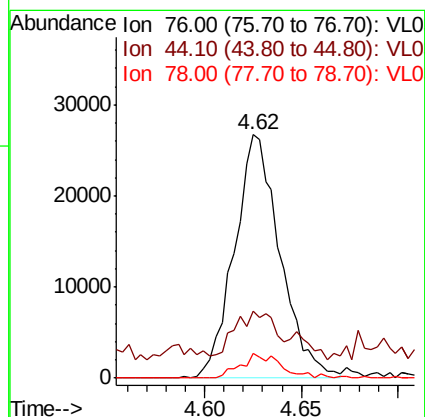
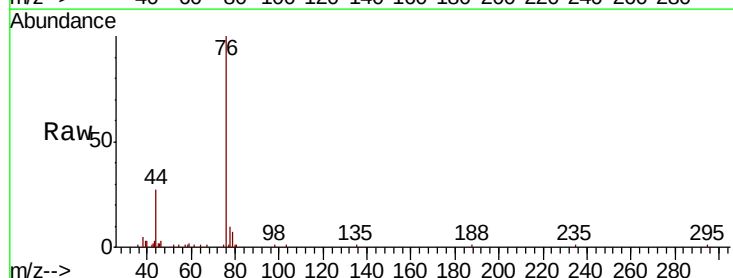
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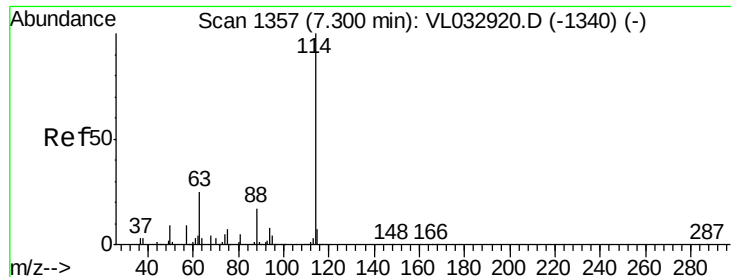
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#27
Carbon Disulfide
Concen: 0.279 ppbv
RT: 4.62 min Scan# 525
Delta R.T. 0.00 min
Lab File: VL032961.D
Acq: 11 Dec 2018 19:20

Tgt Ion	Ratio	Lower	Upper
76	100		
44	29.5	14.7	22.1#
78	9.2	7.4	11.2





#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.00 min

Lab File: VL032961.D

Acq: 11 Dec 2018 19:20

Instrument :

MSVOA_L

ClientSampleId :

A55G4DL

Tot Ion:114 Resp: 3540183

Ion Ratio Lower Upper

114 100

63 24.1 20.1 30.1

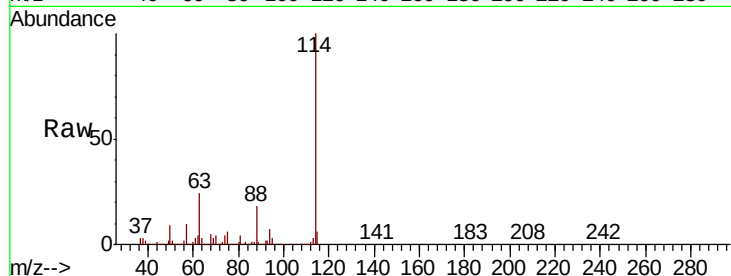
88 17.7 14.2 21.4

Manual Integrations

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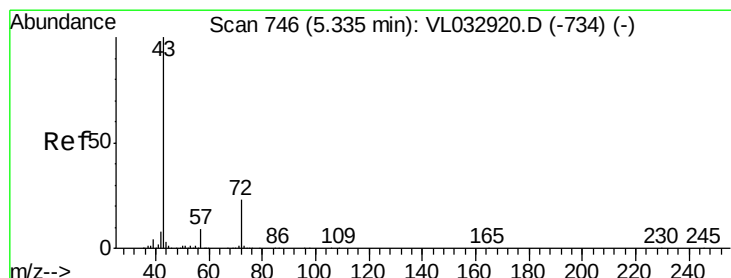
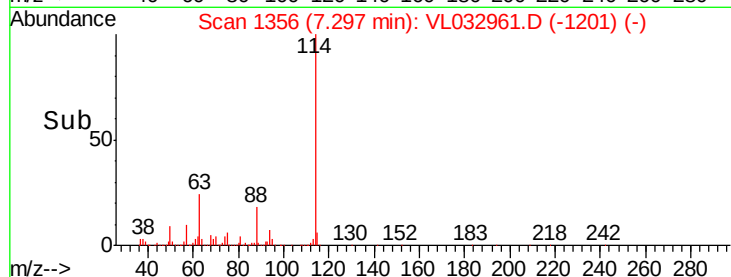
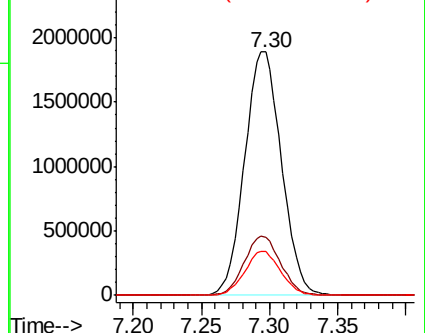
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Abundance Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0



#34

2-Butanone

Concen: 1.234 ppbv

RT: 5.34 min Scan# 747

Delta R.T. 0.00 min

Lab File: VL032961.D

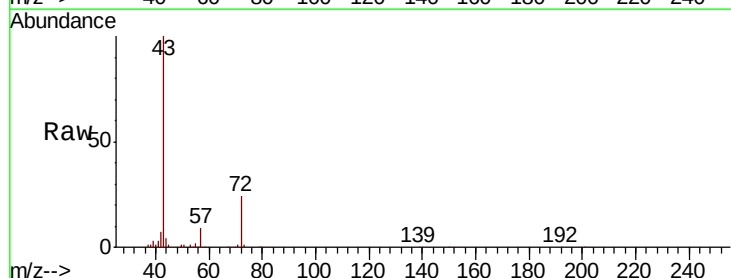
Acq: 11 Dec 2018 19:20

Tgt Ion: 43 Resp: 190354

Ion Ratio Lower Upper

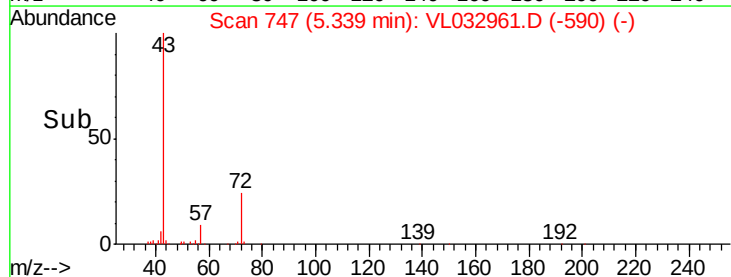
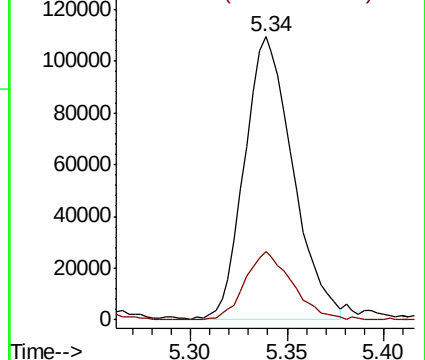
43 100

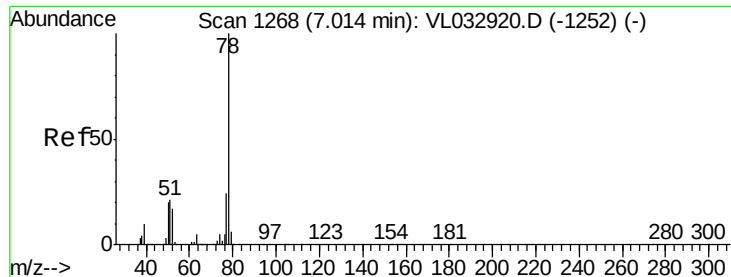
72 24.3 18.8 28.2



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 72.10 (71.80 to 72.80): VL0





#36

Benzene

Concen: 0.558 ppbv

RT: 7.01 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VL032961.D

Acq: 11 Dec 2018 19:20

Instrument :

MSVOA_L

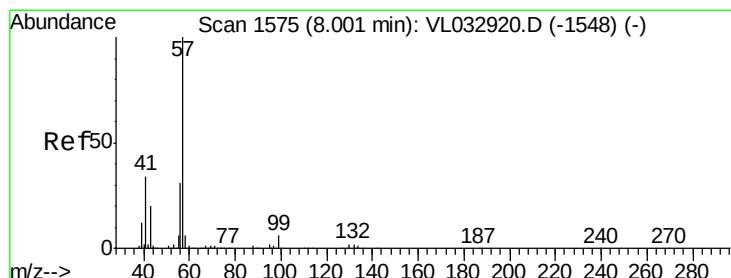
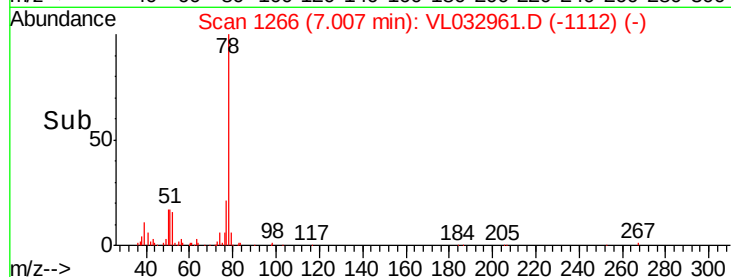
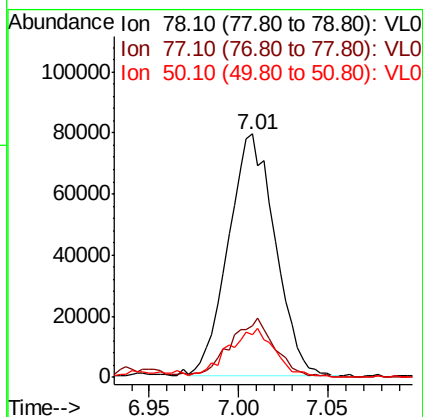
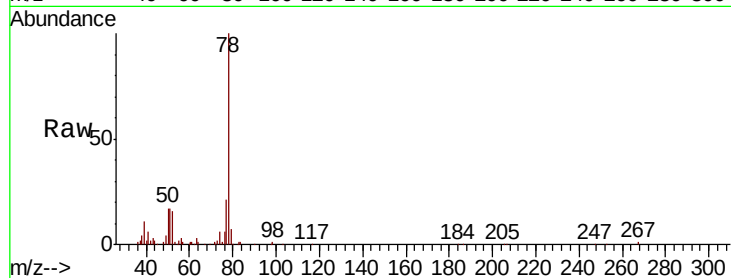
ClientSampled :

A55G4DL

Tot Ion:	78	Resp:	145317
Ion Ratio	Lower	Upper	
78	100		
77	21.0	18.9	28.3
50	17.4	16.1	24.1

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#44

2,2,4-Trimethylpentane

Concen: 0.222 ppbv

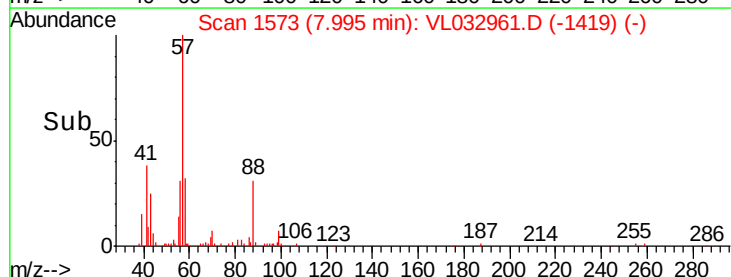
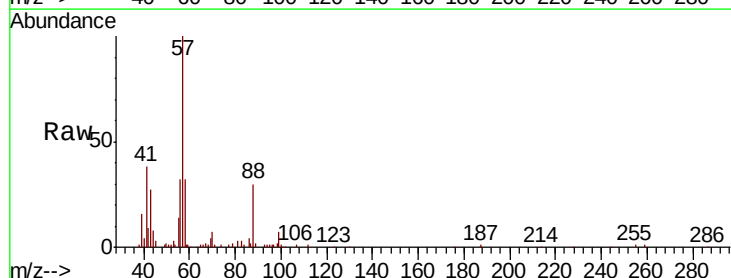
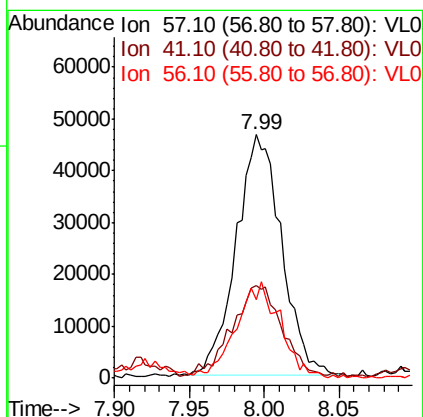
RT: 7.99 min Scan# 1573

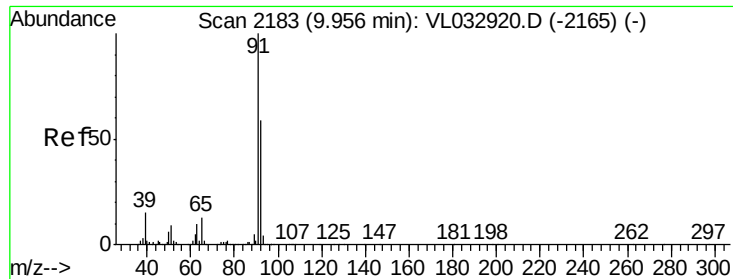
Delta R.T. -0.01 min

Lab File: VL032961.D

Acq: 11 Dec 2018 19:20

Tgt Ion:	57	Resp:	98061
Ion Ratio	Lower	Upper	
57	100		
41	43.4	27.0	40.4#
56	39.4	24.6	37.0#





#53

Toluene

Concen: 1.160 ppbv

RT: 9.95 min Scan# 2181

Delta R.T. -0.01 min

Lab File: VL032961.D

Acq: 11 Dec 2018 19:20

Instrument :

MSVOA_L

ClientSampleId :

A55G4DL

Tot Ion: 91 Resp: 320442

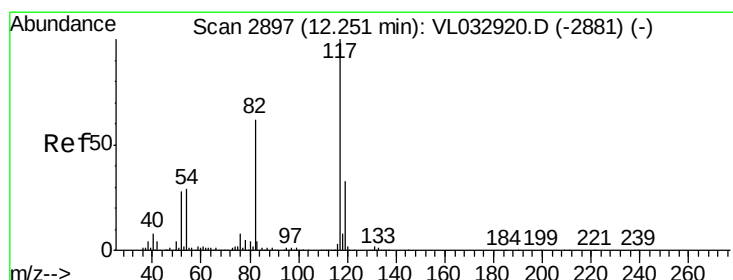
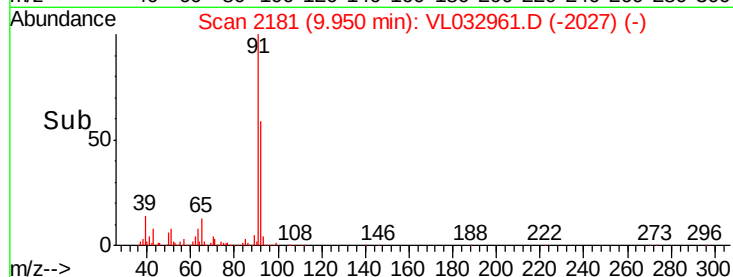
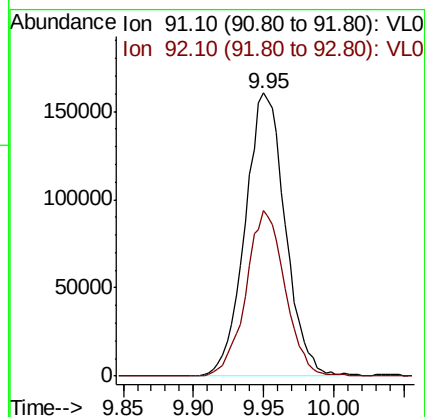
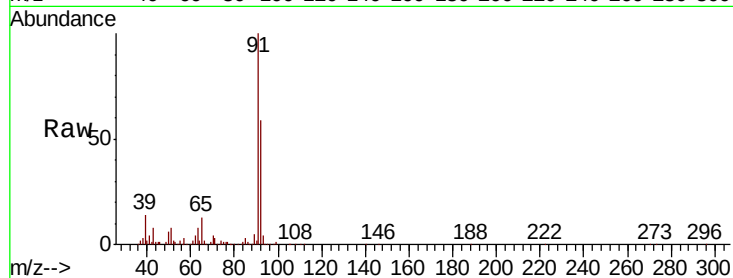
Ion Ratio Lower Upper

91 100

92 56.6 47.4 71.0

Manual Integrations
APPROVED

MMDadoda
12/13/2018 7:58:43 AM



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.25 min Scan# 2895

Delta R.T. -0.01 min

Lab File: VL032961.D

Acq: 11 Dec 2018 19:20

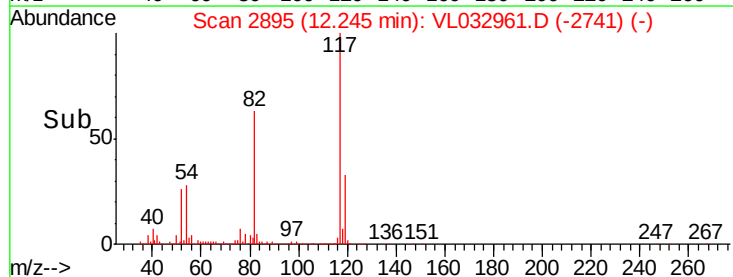
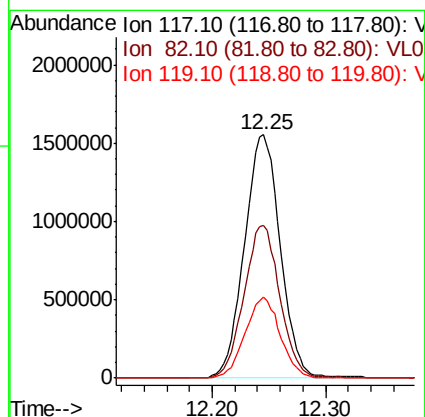
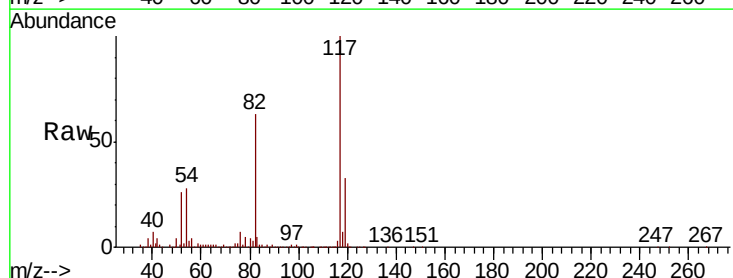
Tgt Ion: 117 Resp: 3427362

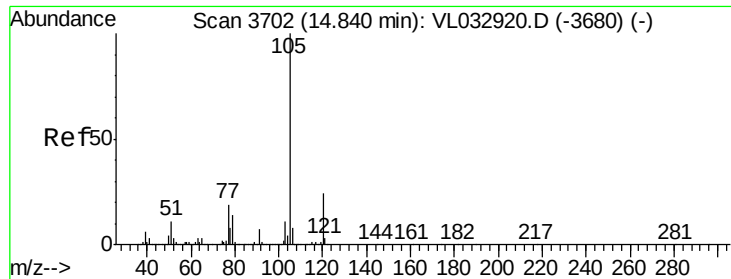
Ion Ratio Lower Upper

117 100

82 62.9 47.8 71.8

119 32.5 43.1 64.7#





#62

Isopropylbenzene

Concen: 2.997 ppbv

RT: 14.83 min Scan# 3699

Delta R.T. -0.01 min

Lab File: VL032961.D

Acq: 11 Dec 2018 19:20

Instrument :

MSVOA_L

ClientSampled :

A55G4DL

Tot Ion: 105 Resp: 1399955

Ion Ratio Lower Upper

105 100

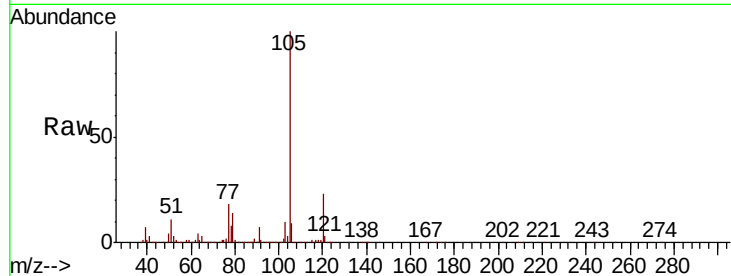
120 25.2

20.3

30.5

Manual Integrations
APPROVED

MMDadoda
12/13/2018 7:58:43 AM



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

14.83

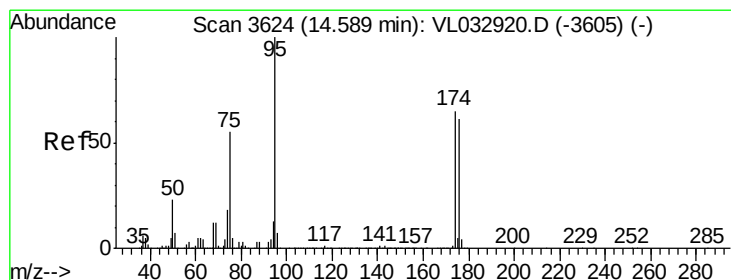
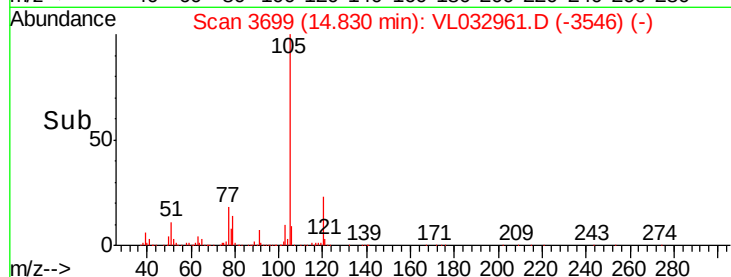
600000

400000

200000

0

Time-->



#68

1-Bromo-4-Fluorobenzene

Concen: 10.817 ppbv

RT: 14.58 min Scan# 3622

Delta R.T. -0.01 min

Lab File: VL032961.D

Acq: 11 Dec 2018 19:20

Tgt Ion: 95 Resp: 2738950

Ion Ratio Lower Upper

95 100

174 64.8

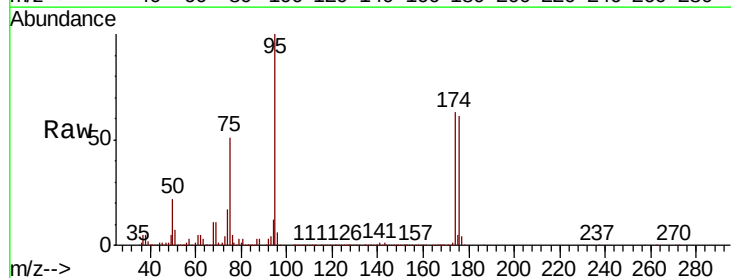
51.4

77.0

175 4.8

3.8

5.6



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

14.58

1500000

1000000

500000

0

Time-->

