

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032760.D
 Acq On : 14 Nov 2018 15:49
 Operator : SY/AP
 Sample : J5896-01 4X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1

Manual Integrations
 APPROVED

MMDadoda
 11/16/2018 1:29:59 PM

Quant Time: Nov 15 06:13:43 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1402932	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	3409091	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.25	117	3207703	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	2510976	10.47	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	104.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	27998m	0.139	ppbv	
9) Propene	3.05	41	15704m	0.353	ppbv	
10) Heptane	8.25	43	37510m	0.221	ppbv	
13) Ethanol	3.67	45	41988m	2.880	ppbv	
15) Acetone	3.91	43	410187	3.202	ppbv	99
19) Isopropyl Alcohol	4.04	45	30762m	0.360	ppbv	
20) Methylene Chloride	4.41	84	26545	0.400	ppbv	91
26) Hexane	5.78	57	89050m	0.670	ppbv	
27) Carbon Disulfide	4.63	76	64494	0.383	ppbv #	90
29) Chloroform	5.85	83	52737	0.223	ppbv	89
34) 2-Butanone	5.35	43	96712	0.547	ppbv	99
36) Benzene	7.00	78	43055m	0.159	ppbv	
52) Tetrachloroethene	11.38	164	5684155	60.191	ppbv	99
53) Toluene	9.95	91	440221	1.554	ppbv	99
58) Ethyl Benzene	12.87	91	343672	0.890	ppbv	99
59) m/p-Xylene	13.12	91	953872	2.776	ppbv	100
60) o-Xylene	13.85	91	485201	1.404	ppbv	99
62) Isopropylbenzene	14.83	105	58460m	0.125	ppbv	
64) n-propylbenzene	15.73	120	36232	0.295	ppbv	72
72) 4-Ethyltoluene	16.01	105	168703	0.445	ppbv #	96
73) 1,3,5-Trimethylbenzene	16.16	105	188818m	0.510	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	617134	1.557	ppbv #	68

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

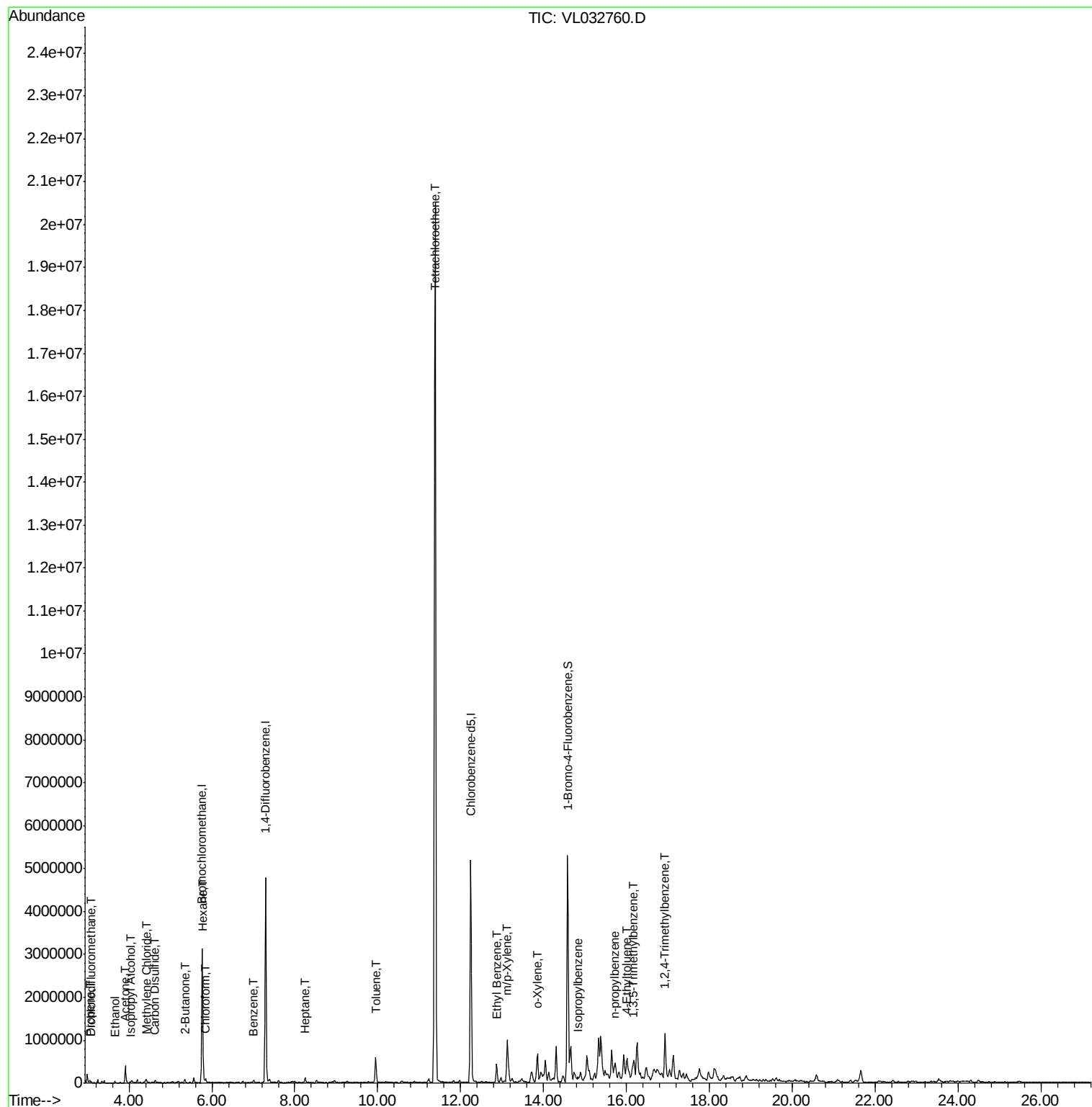
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111418\
Data File : VL032760.D
Acq On : 14 Nov 2018 15:49
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

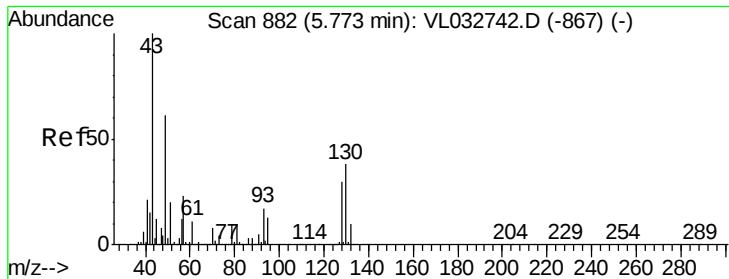
Instrument :
MSVOA_L
ClientSampleId :
SV1

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Quant Time: Nov 15 06:13:43 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.01 min

Lab File: VL032760.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 49 Resp: 1402932

Ion Ratio Lower Upper

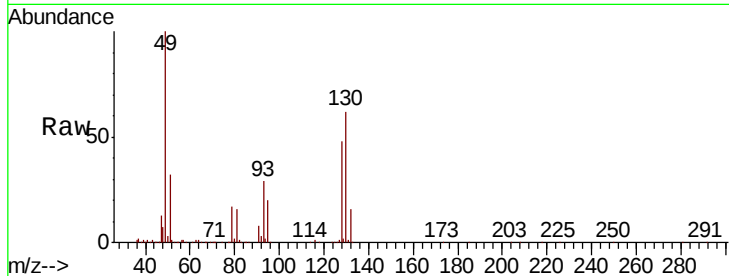
49 100

128 49.9 24.9 74.6

130 64.3 31.4 94.2

Manual Integrations
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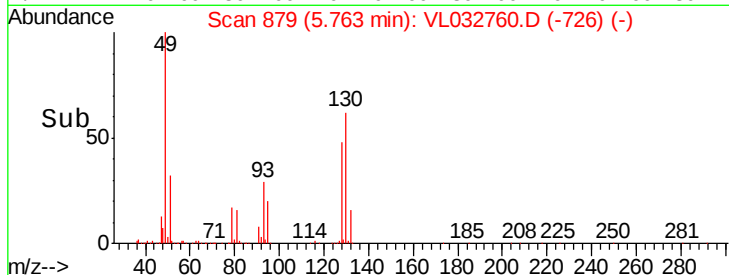


Abundance Ion 49.10 (48.80 to 49.80): VL0

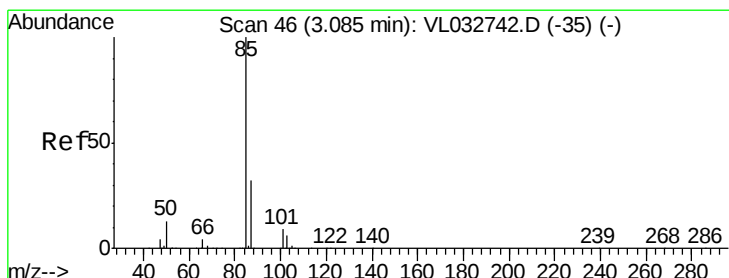
Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V

Time-->



Time-->



#2

Dichlorodifluoromethane

Concen: 0.139 ppbv m

RT: 3.08 min Scan# 45

Delta R.T. -0.00 min

Lab File: VL032760.D

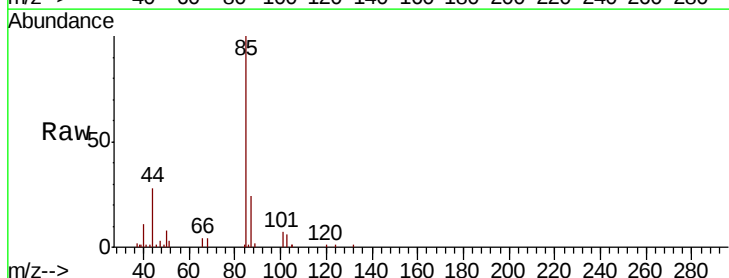
Acq: 14 Nov 2018 15:49

Tgt Ion: 85 Resp: 27998

Ion Ratio Lower Upper

85 100

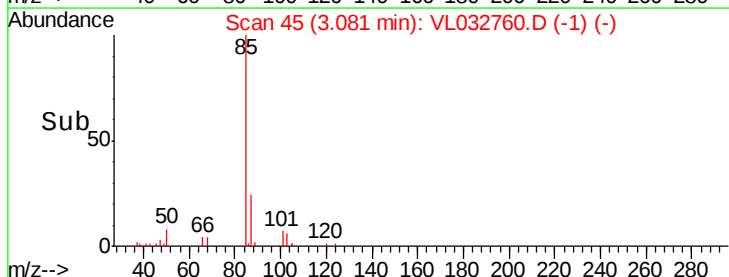
87 24.4 26.0 39.0#



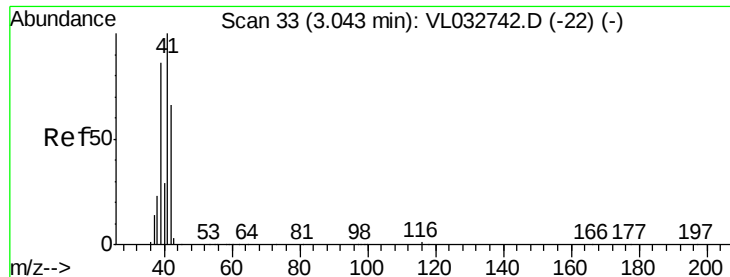
Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0

Time-->



Time-->



#9

Propene

Concen: 0.353 ppbv m

RT: 3.05 min Scan# 34

Delta R.T. 0.00 min

Lab File: VL032760.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion: 41 Resp: 15704

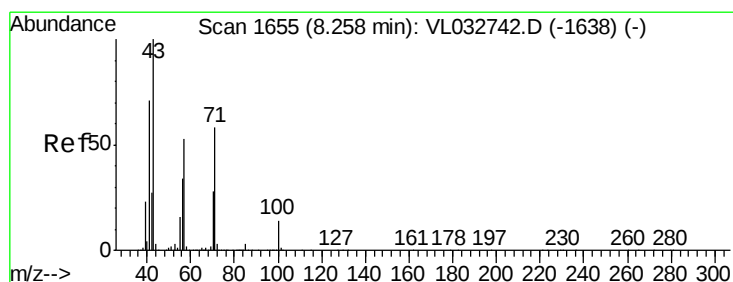
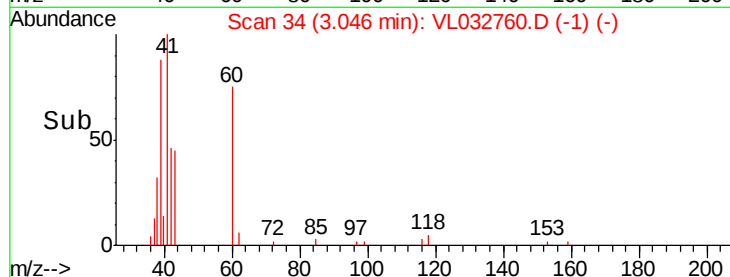
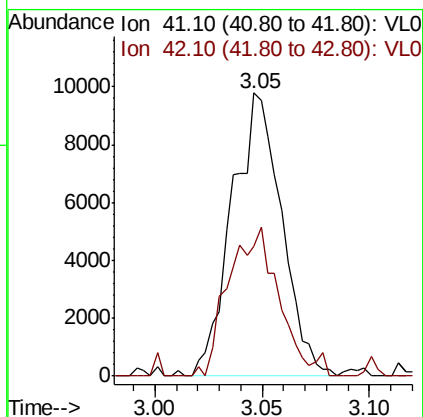
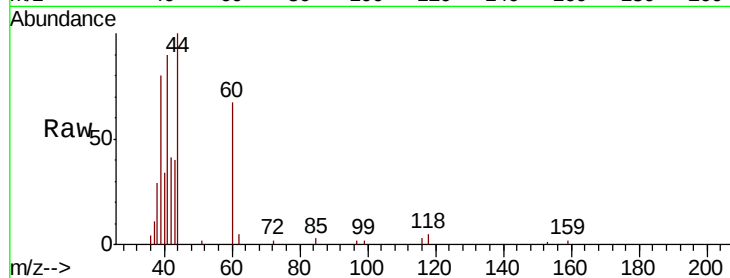
Ion Ratio Lower Upper

41 100

42 53.7 55.0 82.6#

Manual Integrations
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#10

Heptane

Concen: 0.221 ppbv m

RT: 8.25 min Scan# 1652

Delta R.T. -0.01 min

Lab File: VL032760.D

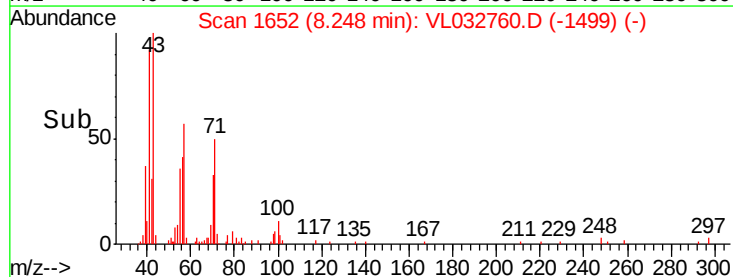
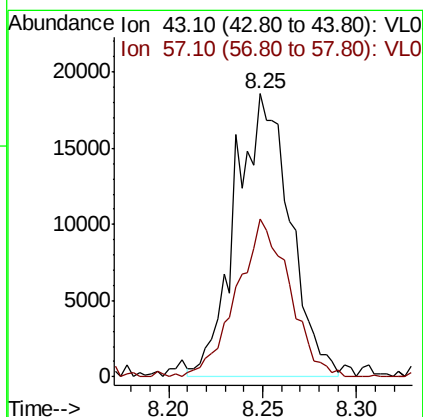
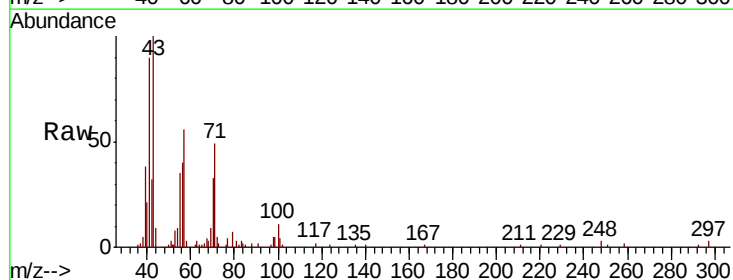
Acq: 14 Nov 2018 15:49

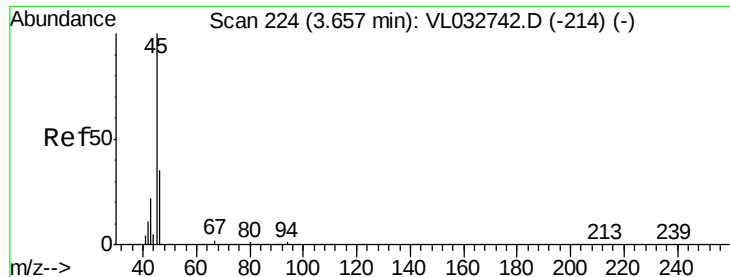
Tgt Ion: 43 Resp: 37510

Ion Ratio Lower Upper

43 100

57 54.2 41.8 62.8





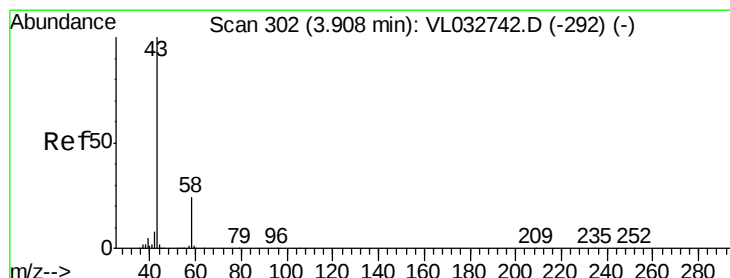
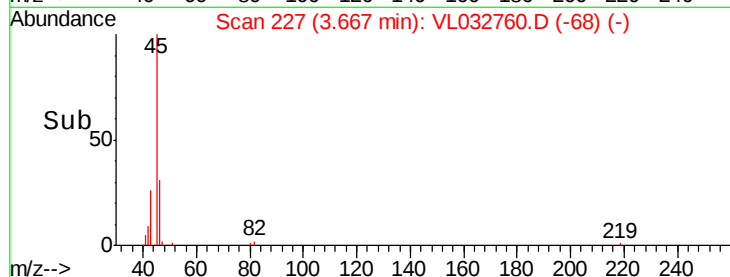
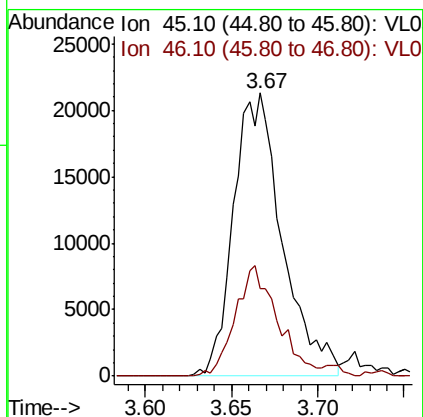
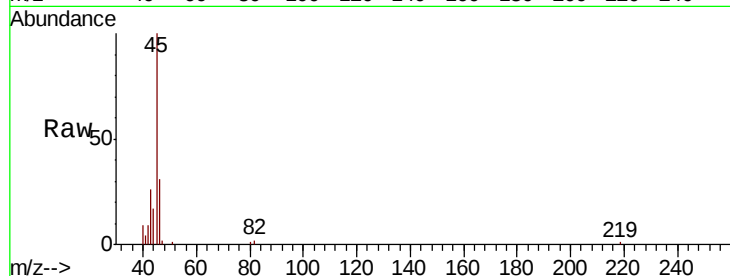
#13
Ethanol
Concen: 2.880 ppbv m
RT: 3.67 min Scan# 227
Delta R.T. 0.01 min
Lab File: VL032760.D
Acq: 14 Nov 2018 15:49

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion	Ratio	Lower	Upper
45	100		
46	0.0	14.5	57.9#

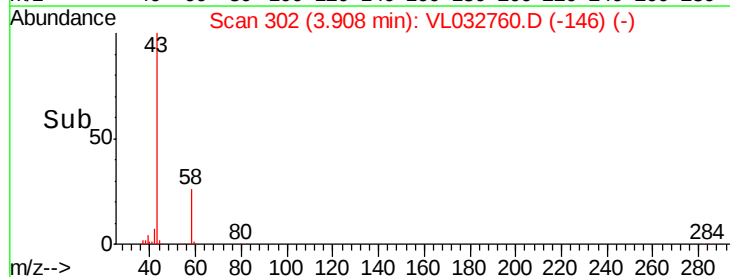
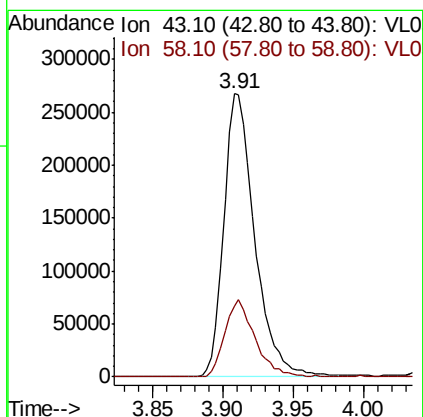
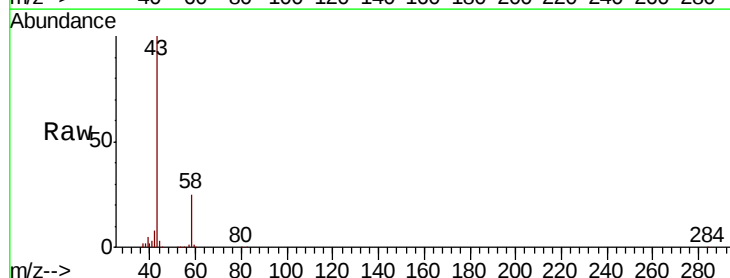
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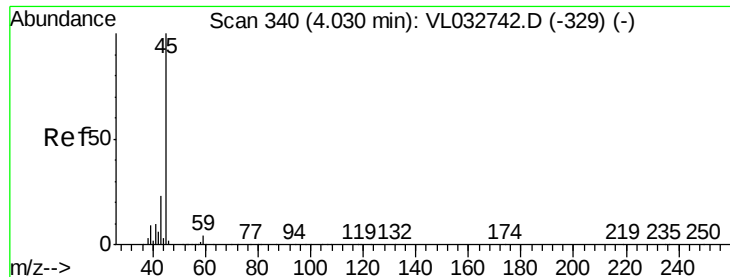
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#15
Acetone
Concen: 3.202 ppbv
RT: 3.91 min Scan# 302
Delta R.T. -0.00 min
Lab File: VL032760.D
Acq: 14 Nov 2018 15:49

Tgt Ion	Ratio	Lower	Upper
43	100		
58	26.8	21.1	31.7





#19

Isopropyl Alcohol

Concen: 0.360 ppbv m

RT: 4.04 min Scan# 344

Delta R.T. 0.01 min

Lab File: VL032760.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion: 45 Resp: 30762

Ion Ratio Lower Upper

45 100

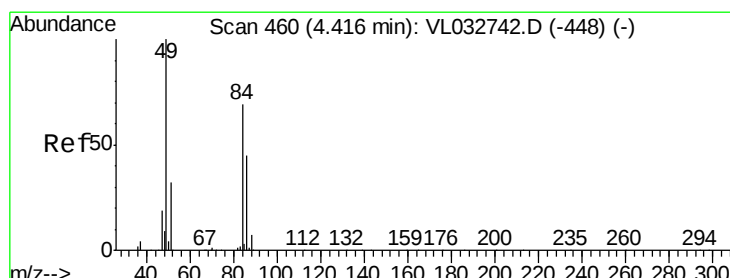
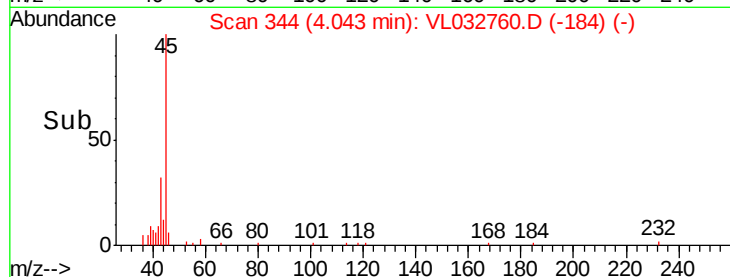
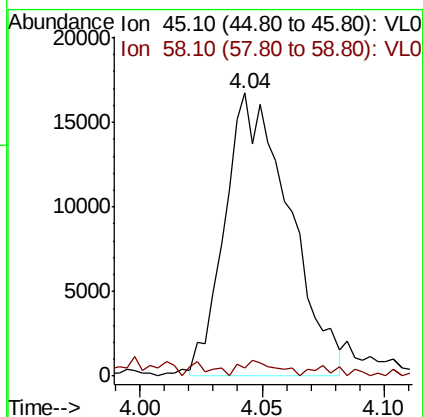
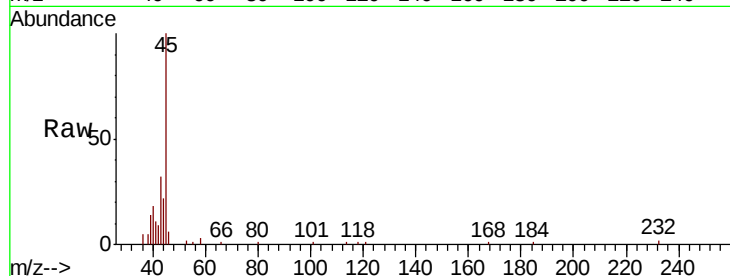
58 0.0 1.4 2.0#

Manual Integrations

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#20

Methylene Chloride

Concen: 0.400 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL032760.D

Acq: 14 Nov 2018 15:49

Tgt Ion: 84 Resp: 26545

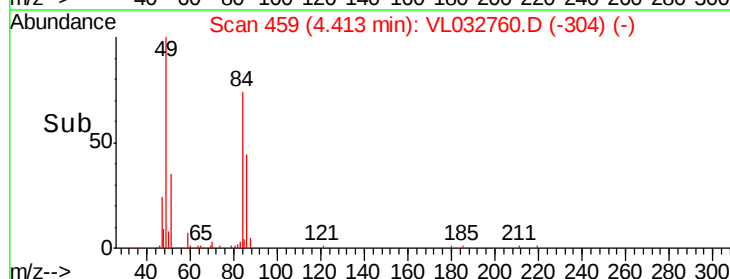
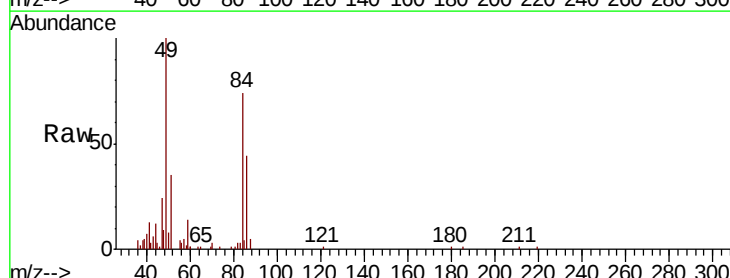
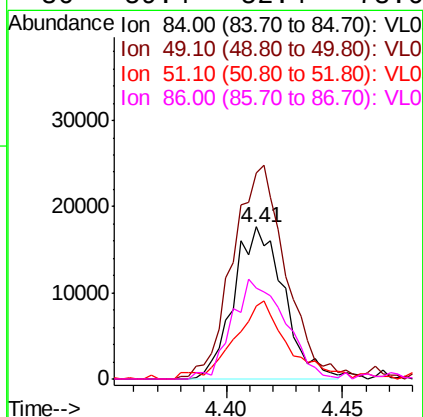
Ion Ratio Lower Upper

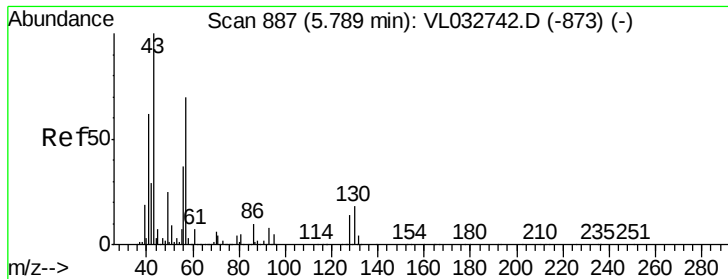
84 100

49 131.8 115.8 173.6

51 43.3 36.9 55.3

86 59.4 52.4 78.6





#26

Hexane

Concen: 0.670 ppbv m

RT: 5.78 min Scan# 885

Delta R.T. -0.01 min

Lab File: VL032760.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampled :

SV1

Tot Ion: 57 Resp: 89050

Ion Ratio Lower Upper

57 100

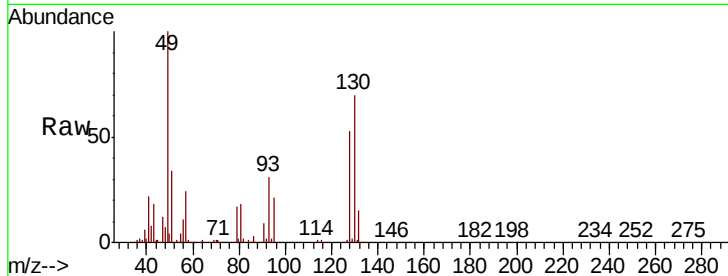
41 97.2 70.3 105.5

43 82.4 174.0 261.0#

56 55.2 42.3 63.5

Manual Integrations
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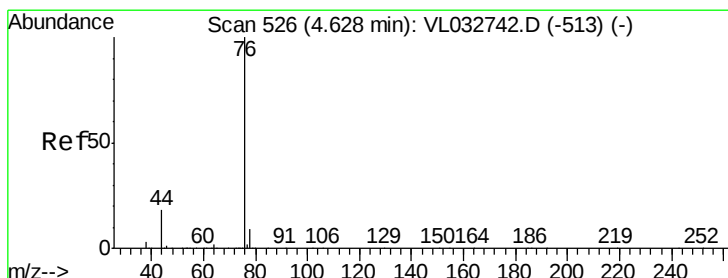
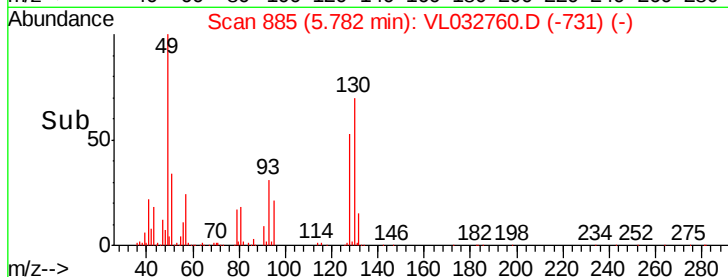
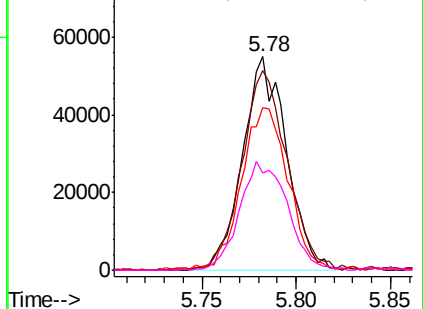


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#27

Carbon Disulfide

Concen: 0.383 ppbv

RT: 4.63 min Scan# 527

Delta R.T. 0.00 min

Lab File: VL032760.D

Acq: 14 Nov 2018 15:49

Tgt Ion: 76 Resp: 64494

Ion Ratio Lower Upper

76 100

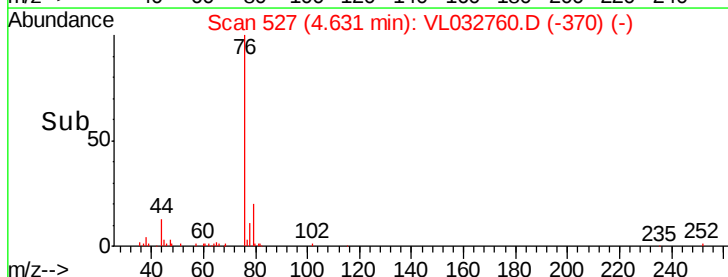
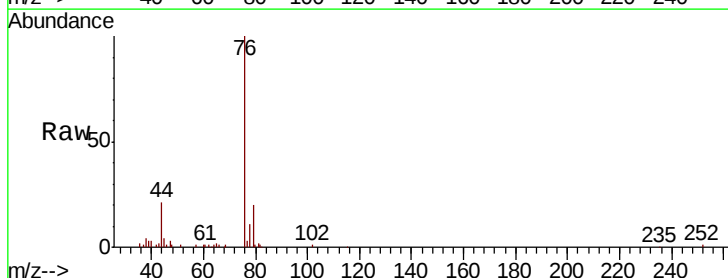
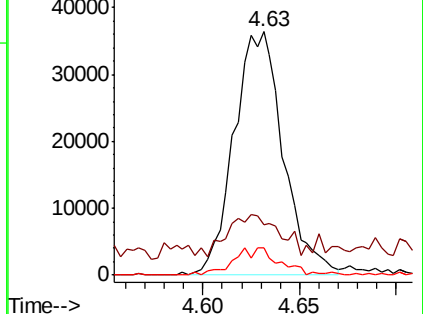
44 24.4 14.4 21.6#

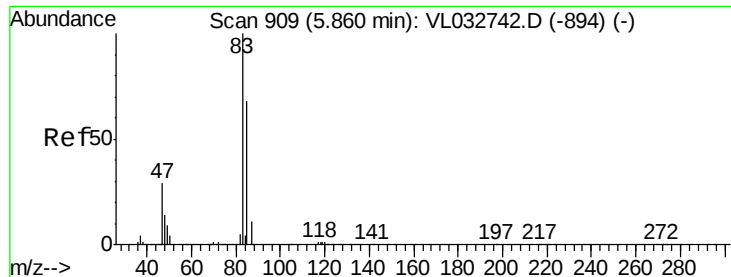
78 10.7 7.7 11.5

Abundance Ion 76.00 (75.70 to 76.70): VL0

Ion 44.10 (43.80 to 44.80): VL0

Ion 78.00 (77.70 to 78.70): VL0





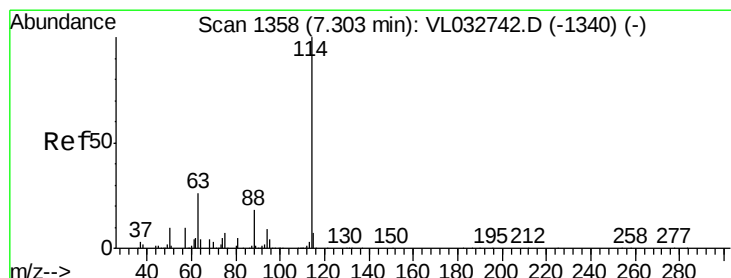
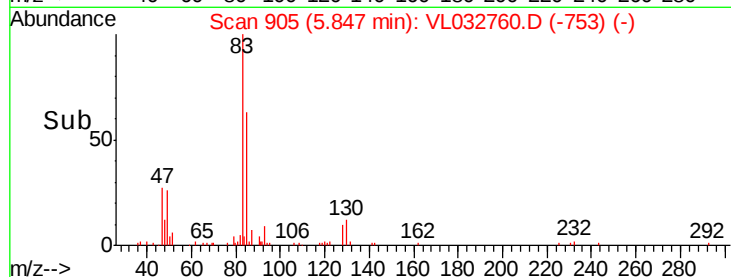
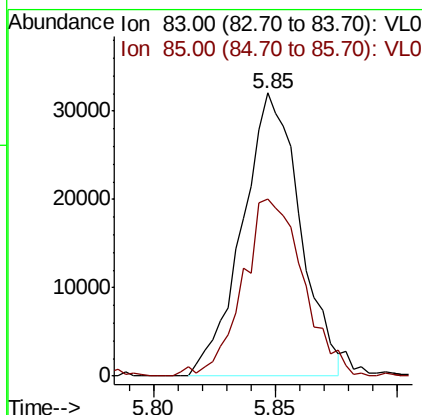
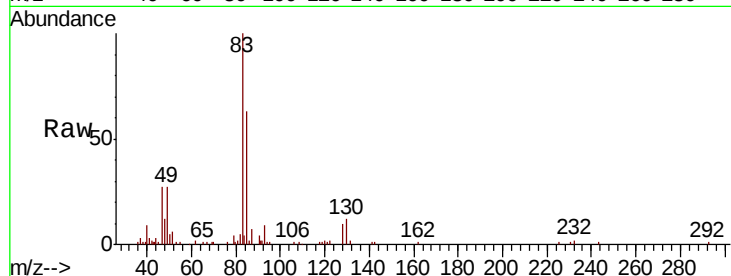
#29
Chloroform
Concen: 0.223 ppbv
RT: 5.85 min Scan# 905
Delta R.T. -0.01 min
Lab File: VL032760.D
Acq: 14 Nov 2018 15:49

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion: 83 Resp: 52737
Ion Ratio Lower Upper
83 100
85 59.3 54.2 81.4

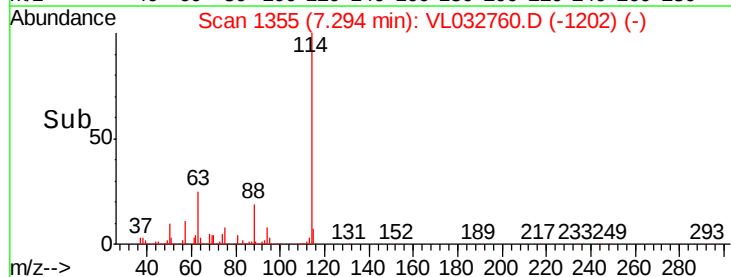
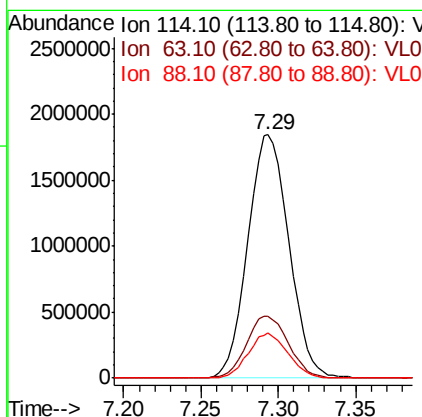
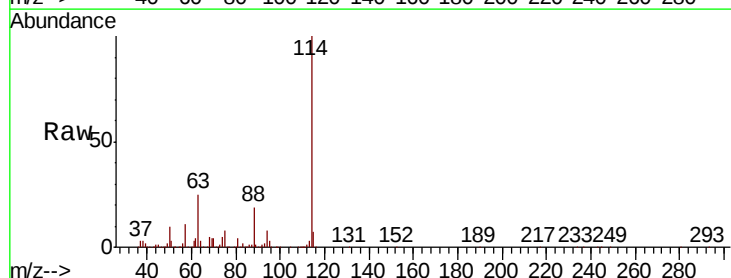
Manual Integrations
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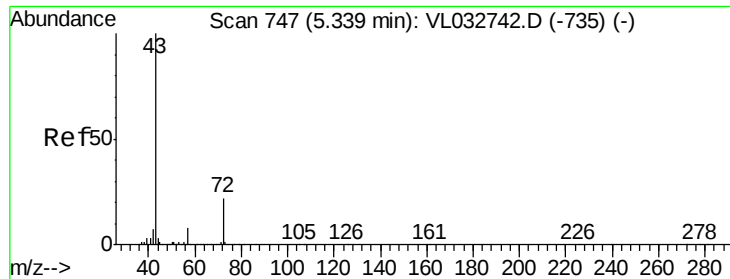
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1355
Delta R.T. -0.01 min
Lab File: VL032760.D
Acq: 14 Nov 2018 15:49

Tgt Ion: 114 Resp: 3409091
Ion Ratio Lower Upper
114 100
63 26.1 20.9 31.3
88 18.0 14.4 21.6





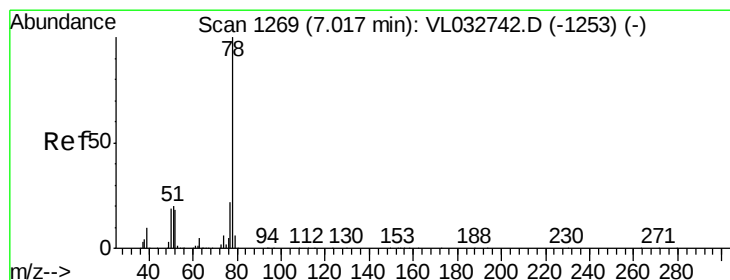
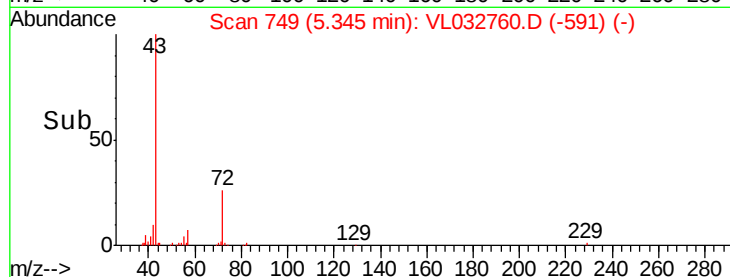
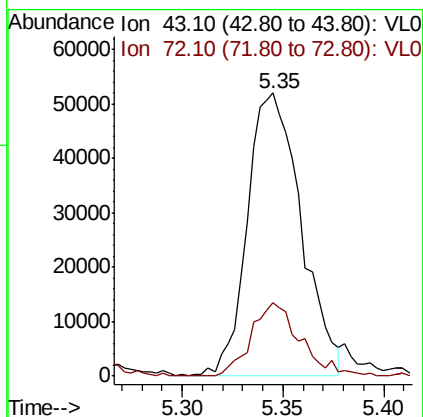
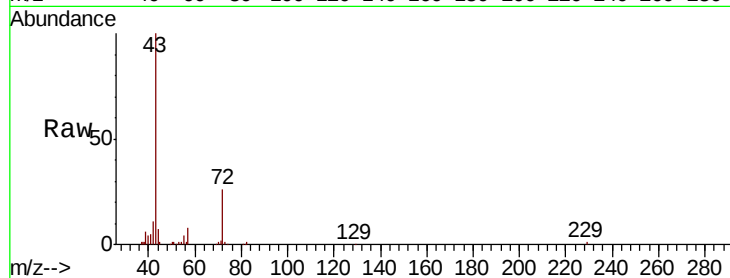
#34
2-Butanone
Concen: 0.547 ppbv
RT: 5.35 min Scan# 749
Delta R.T. 0.01 min
Lab File: VL032760.D
Acq: 14 Nov 2018 15:49

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion: 43 Resp: 96712
Ion Ratio Lower Upper
43 100
72 23.7 18.4 27.6

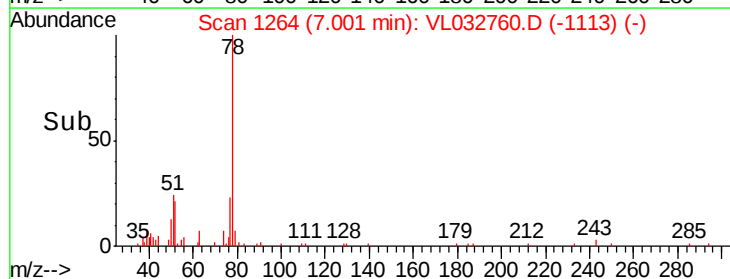
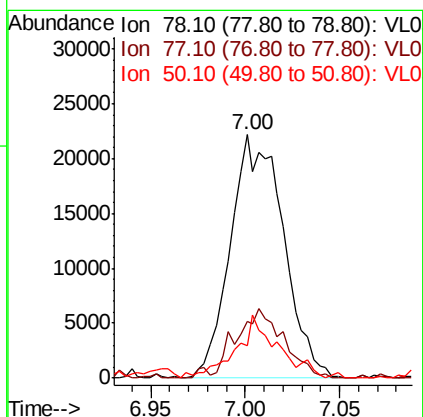
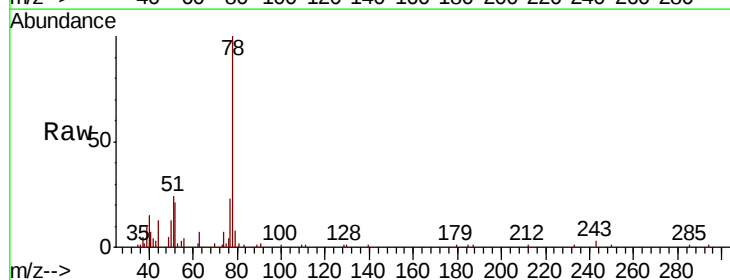
Manual Integrations
APPROVED

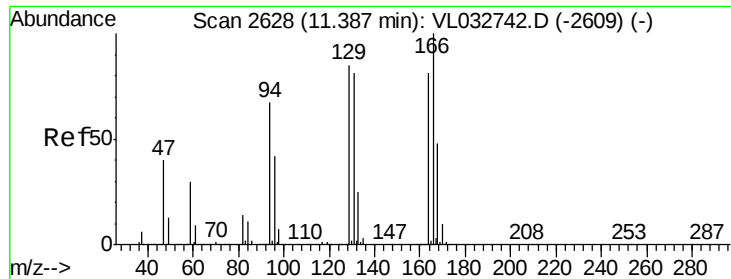
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#36
Benzene
Concen: 0.159 ppbv m
RT: 7.00 min Scan# 1264
Delta R.T. -0.02 min
Lab File: VL032760.D
Acq: 14 Nov 2018 15:49

Tgt Ion: 78 Resp: 43055
Ion Ratio Lower Upper
78 100
77 23.2 17.8 26.8
50 13.5 15.4 23.0#





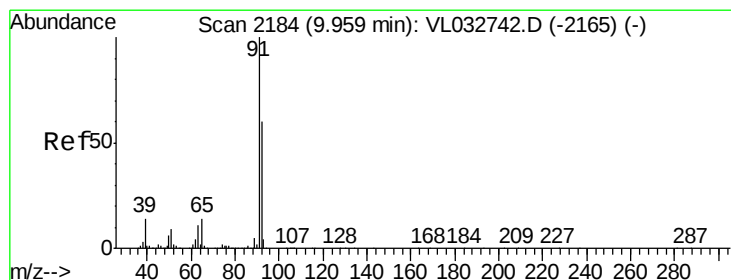
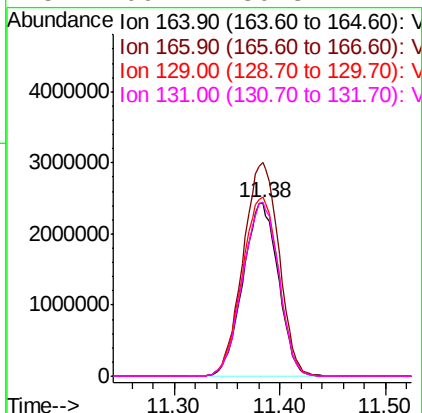
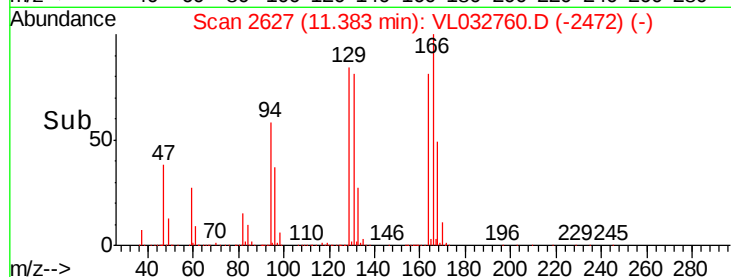
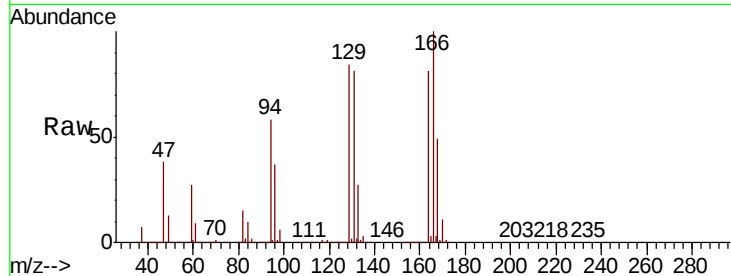
#52
Tetrachloroethene
Concen: 60.191 ppbv
RT: 11.38 min Scan# 2627
Delta R.T. -0.00 min
Lab File: VL032760.D
Acq: 14 Nov 2018 15:49

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion	Ratio	Lower	Upper
164	100		
166	123.4	99.3	148.9
129	103.8	83.9	125.9
131	100.2	80.8	121.2

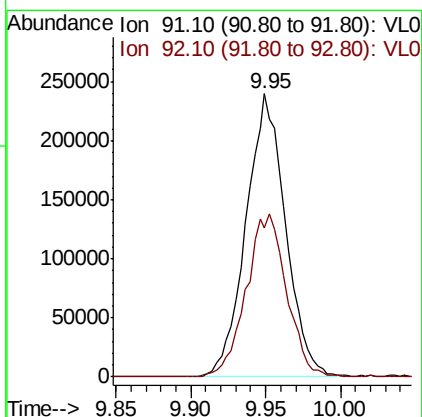
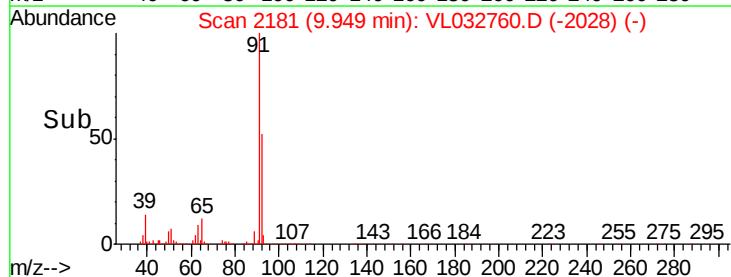
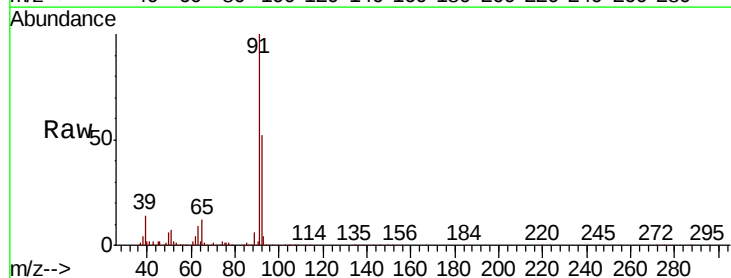
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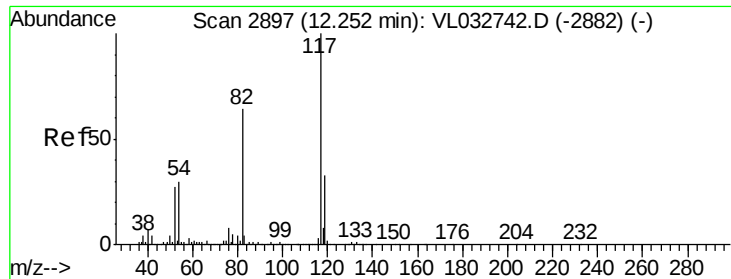
MMDadoda
11/16/2018 1:29:59 PM



#53
Toluene
Concen: 1.554 ppbv
RT: 9.95 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL032760.D
Acq: 14 Nov 2018 15:49

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.0	47.9	71.9





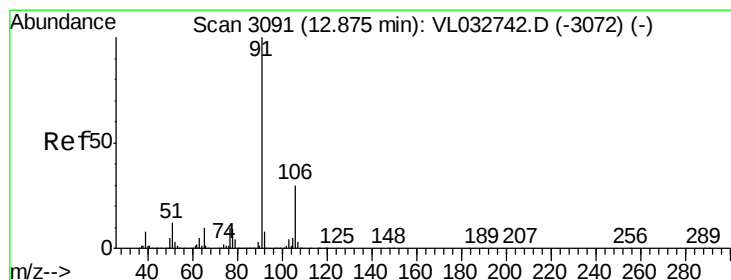
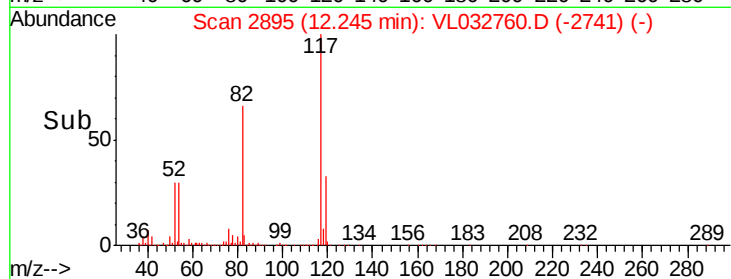
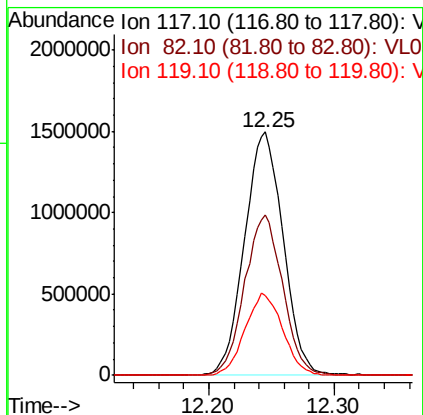
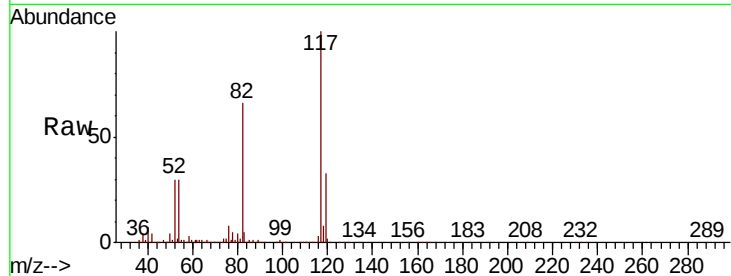
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.25 min Scan# 2895
Delta R.T. -0.01 min
Lab File: VL032760.D
Acq: 14 Nov 2018 15:49

Instrument :
MSVOA_L
ClientSampleId :
SV1

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.1	51.0	76.6
119	33.0	28.0	42.0

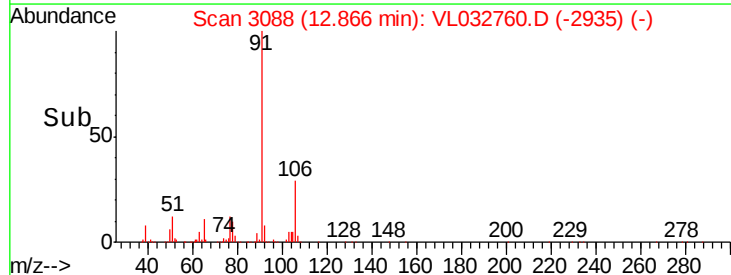
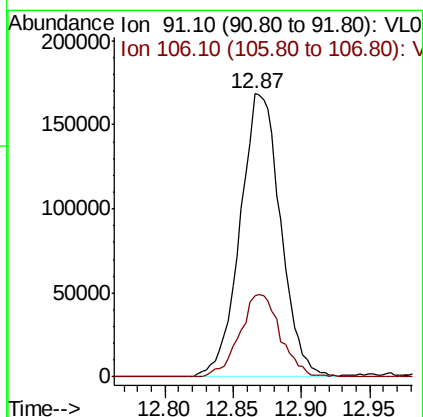
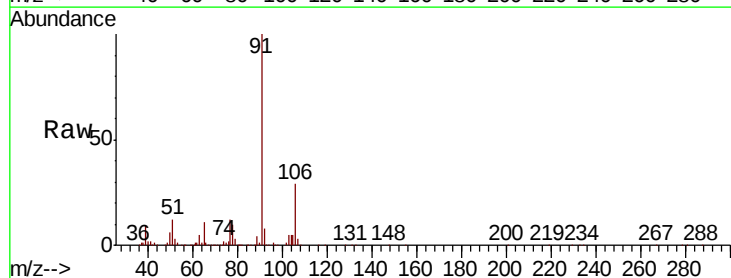
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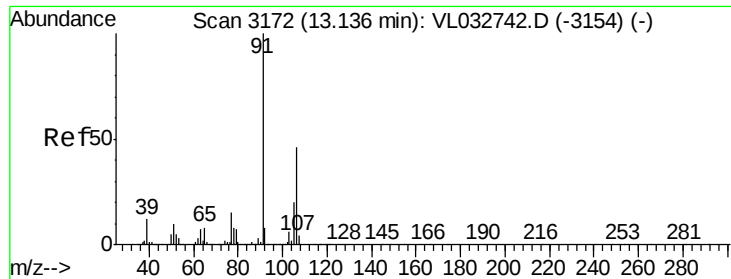
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11/16/2018 1:29:59 PM



#58
Ethyl Benzene
Concen: 0.890 ppbv
RT: 12.87 min Scan# 3088
Delta R.T. -0.01 min
Lab File: VL032760.D
Acq: 14 Nov 2018 15:49

Tgt Ion	Ratio	Lower	Upper
91	100		
106	28.9	23.6	35.4





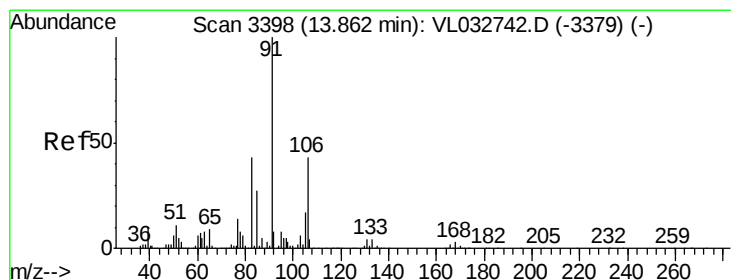
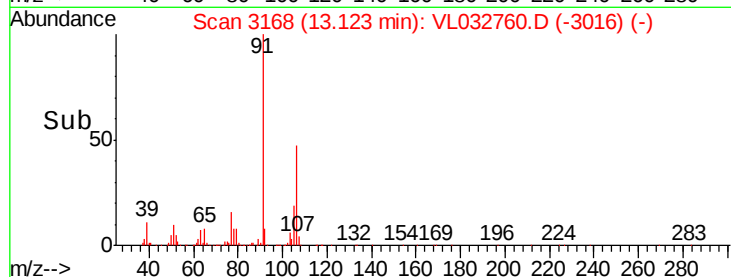
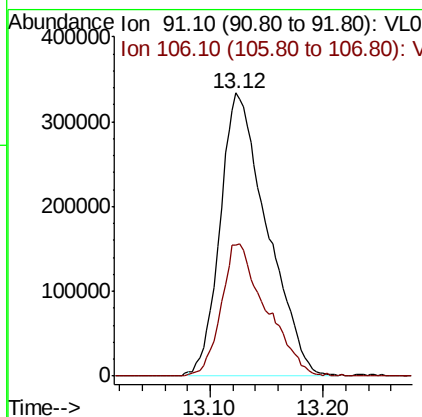
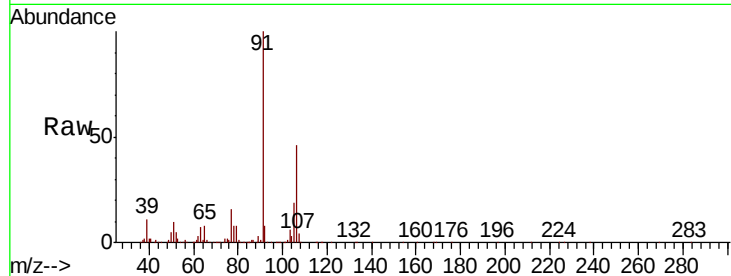
#59
m/p-Xylene
Concen: 2.776 ppbv
RT: 13.12 min Scan# 3168
Delta R.T. -0.01 min
Lab File: VL032760.D
Acq: 14 Nov 2018 15:49

Instrument :
MSVOA_L
ClientSampled :
SV1

Tot Ion: 91 Resp: 953872
Ion Ratio Lower Upper
91 100
106 45.2 36.1 54.1

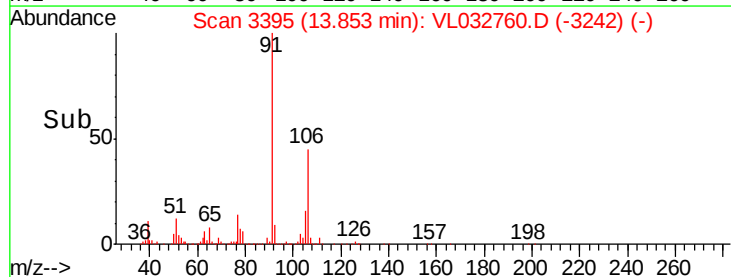
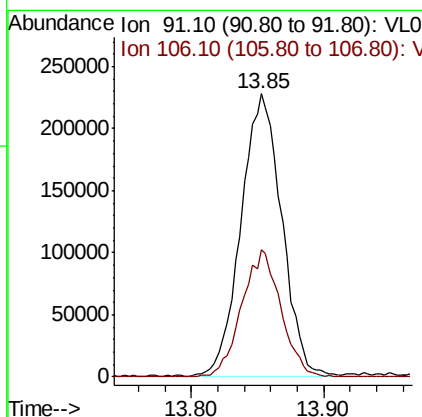
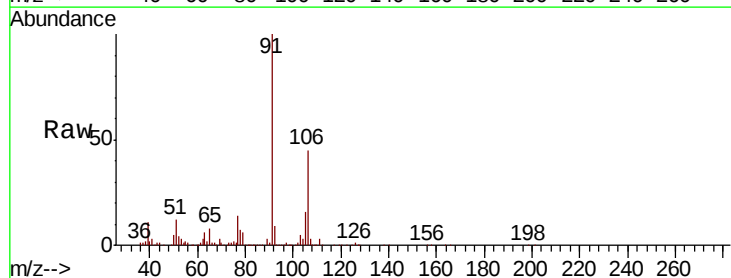
Manual Integrations
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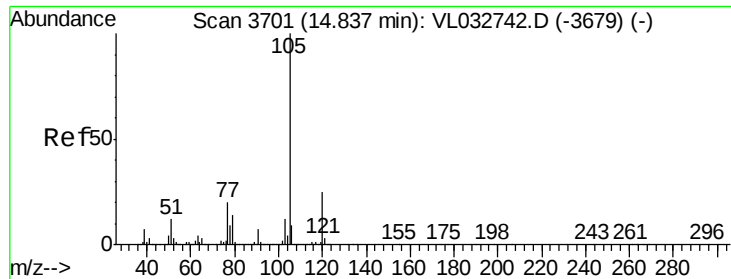
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#60
o-Xylene
Concen: 1.404 ppbv
RT: 13.85 min Scan# 3395
Delta R.T. -0.01 min
Lab File: VL032760.D
Acq: 14 Nov 2018 15:49

Tgt Ion: 91 Resp: 485201
Ion Ratio Lower Upper
91 100
106 43.1 21.9 65.7





#62

Isopropylbenzene

Concen: 0.125 ppbv m

RT: 14.83 min Scan# 3698

Delta R.T. -0.01 min

Lab File: VL032760.D

Acq: 14 Nov 2018 15:49

Instrument :

MSVOA_L

ClientSampleId :

SV1

Tot Ion:105 Resp: 58460

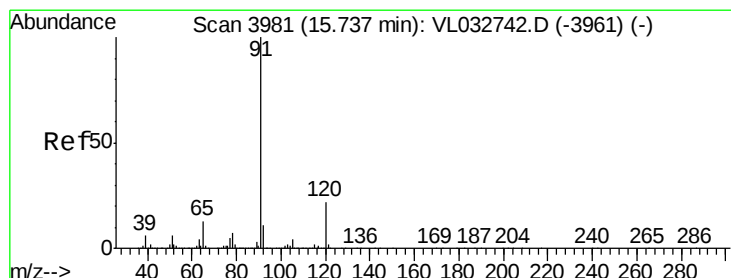
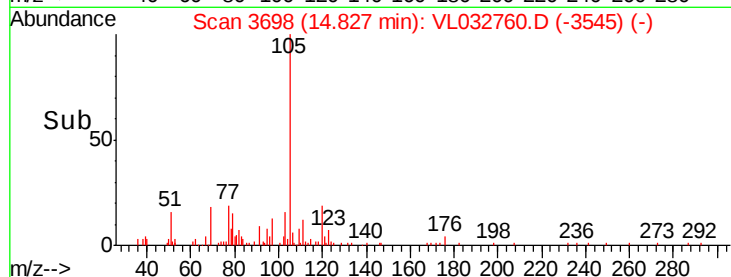
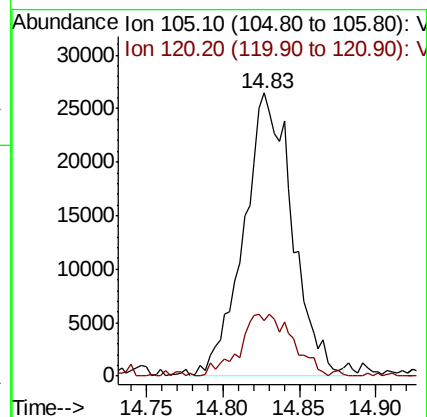
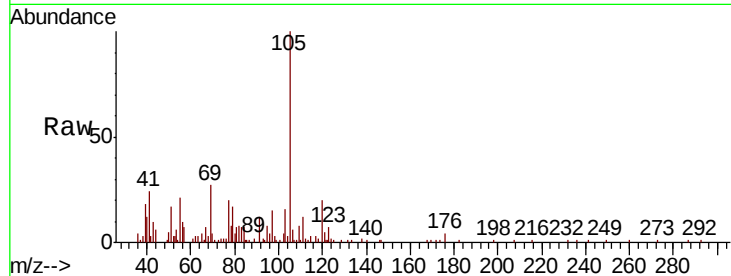
Ion Ratio Lower Upper

105 100

120 24.9 20.1 30.1

Manual Integrations
APPROVED

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#64

n-propylbenzene

Concen: 0.295 ppbv

RT: 15.73 min Scan# 3979

Delta R.T. -0.01 min

Lab File: VL032760.D

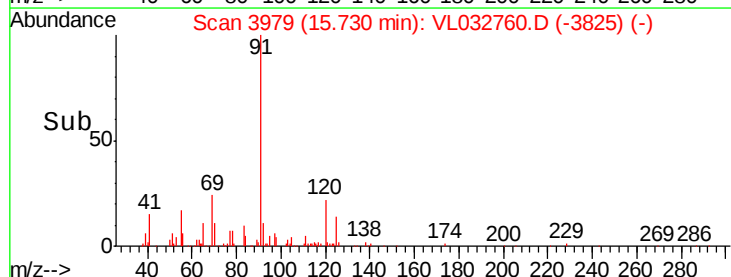
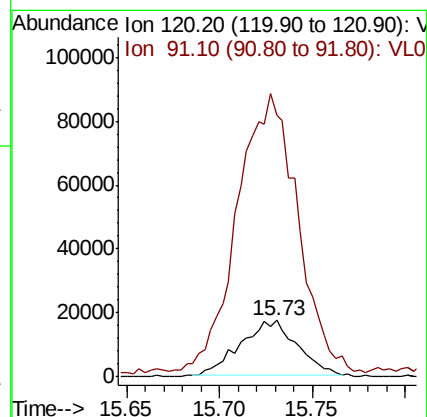
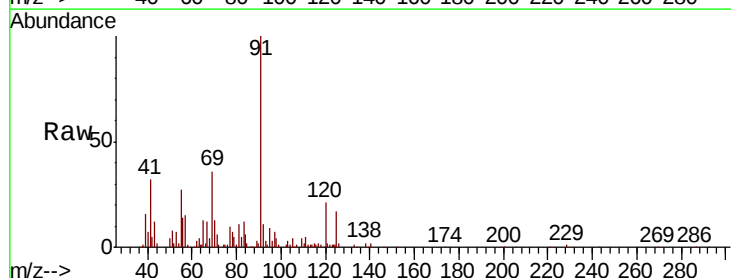
Acq: 14 Nov 2018 15:49

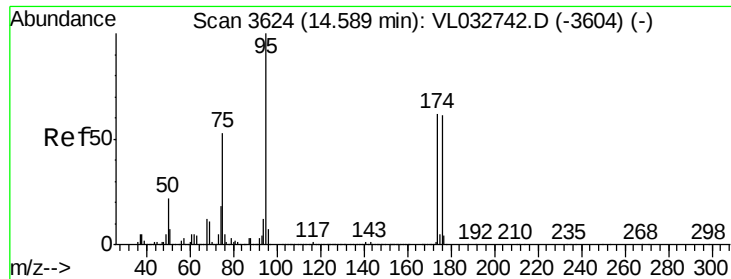
Tgt Ion:120 Resp: 36232

Ion Ratio Lower Upper

120 100

91 552.7 381.7 572.5





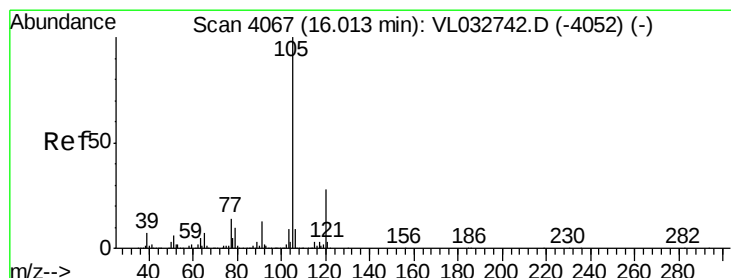
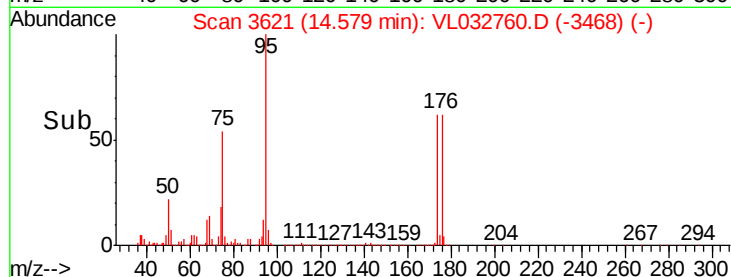
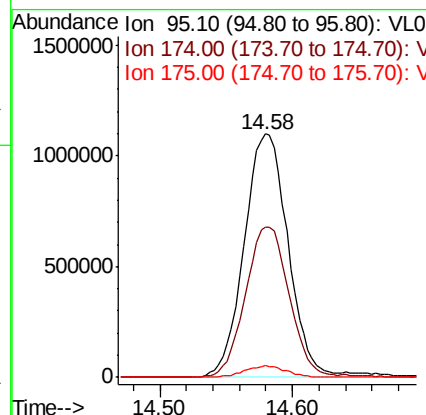
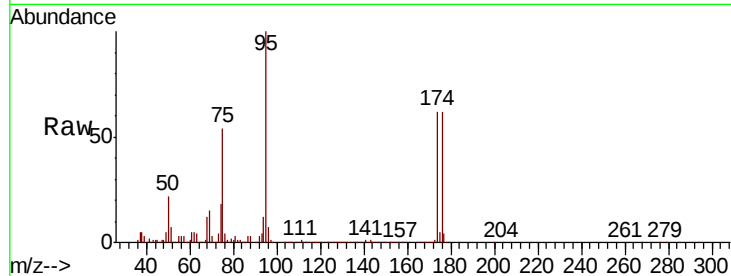
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.466 ppbv
 RT: 14.58 min Scan# 3621
 Delta R.T. -0.01 min
 Lab File: VL032760.D
 Acq: 14 Nov 2018 15:49

Instrument :
 MSVOA_L
 ClientSampled :
 SV1

Tot Ion: 95 Resp: 2510976
 Ion Ratio Lower Upper
 95 100
 174 62.5 50.7 76.1
 175 4.6 3.8 5.6

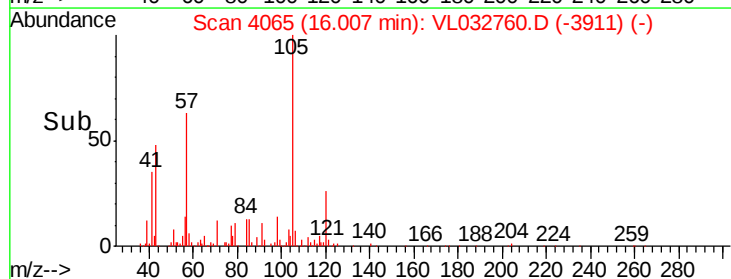
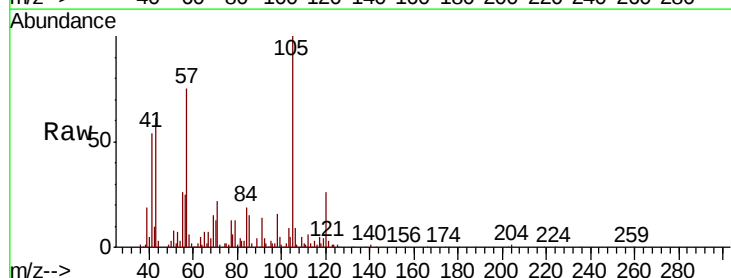
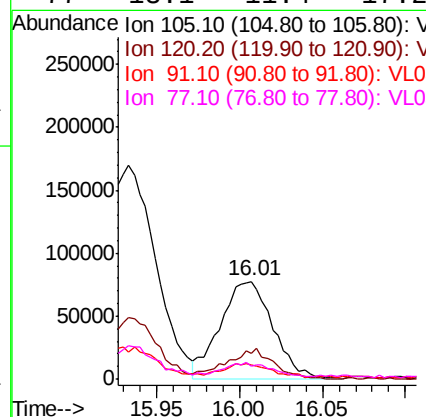
Manual Integrations
 APPROVED

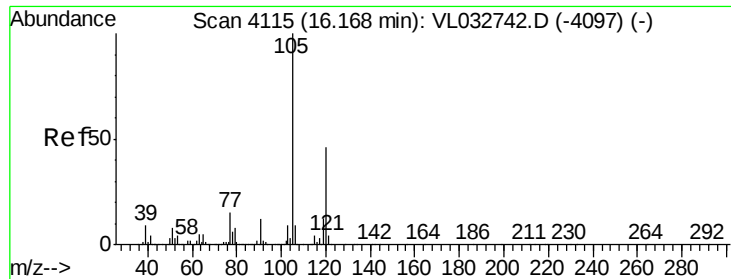
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#72
 4-Ethyltoluene
 Concen: 0.445 ppbv
 RT: 16.01 min Scan# 4065
 Delta R.T. -0.01 min
 Lab File: VL032760.D
 Acq: 14 Nov 2018 15:49

Tgt Ion: 105 Resp: 168703
 Ion Ratio Lower Upper
 105 100
 120 29.5 22.9 34.3
 91 16.4 10.6 15.8#
 77 13.1 11.4 17.2





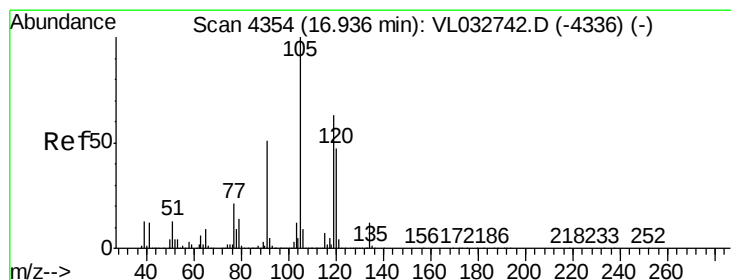
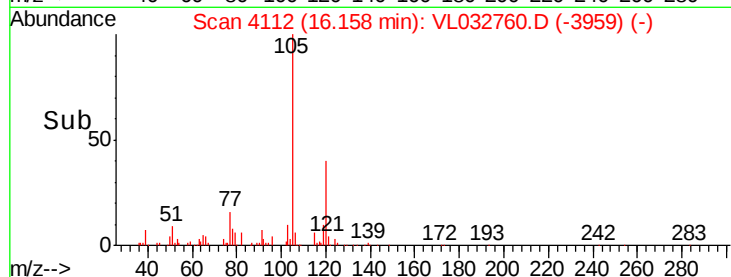
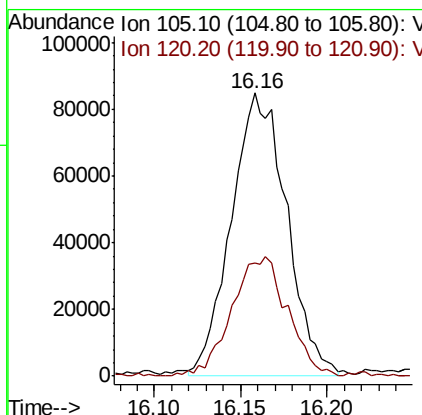
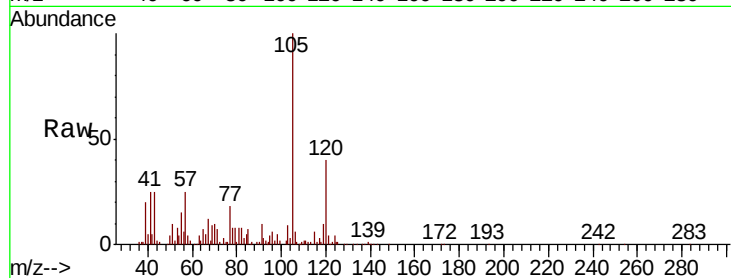
#73
 1,3,5-Trimethylbenzene
 Concen: 0.510 ppbv m
 RT: 16.16 min Scan# 4112
 Delta R.T. -0.01 min
 Lab File: VL032760.D
 Acq: 14 Nov 2018 15:49

Instrument :
 MSVOA_L
 ClientSampled :
 SV1

Tot Ion	Ratio	Lower	Upper
105	100		
120	40.2	36.6	55.0

Manual Integrations
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 11/16/2018 1:29:59 PM



#74
 1,2,4-Trimethylbenzene
 Concen: 1.557 ppbv
 RT: 16.93 min Scan# 4352
 Delta R.T. -0.01 min
 Lab File: VL032760.D
 Acq: 14 Nov 2018 15:49

Tgt Ion	Ratio	Lower	Upper
105	100		
120	40.4	37.6	56.4
91	11.5	42.5	63.7#
77	14.2	17.4	26.2#

