

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090518\
 Data File : VL032465.D
 Acq On : 5 Sep 2018 20:10
 Operator : SY/AP
 Sample : J4745-02DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-03DL

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 10:46:00 AM

Quant Time: Sep 06 06:55:15 2018

Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M

Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug 31

QLast Update : Fri Aug 31 21:33:46 2018

Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.80	49	1621520	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3323872	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3156330	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2404478	10.26	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.60%

Target Compounds

						Ovalue
3) Chlorodifluoromethane	3.04	51	18054	0.12	ppbv	95
9) Propene	3.06	41	659959	11.15	ppbv	94
10) Heptane	8.30	43	44223	0.21	ppbv	96
11) Trichlorofluoromethane	4.04	101	110456	0.59	ppbv	91
13) Ethanol	3.68	45	73433	3.98	ppbv	89
15) Acetone	3.94	43	1028710	7.04	ppbv	96
16) 1,3-Butadiene	3.38	39	132376m	1.93	ppbv	
17) tert-Butyl alcohol	4.40	59	145005	6.45	ppbv #	100
26) Hexane	5.82	57	74363	0.48	ppbv #	40
27) Carbon Disulfide	4.66	76	24247	0.17	ppbv #	50
29) Chloroform	5.89	83	36737m	0.16	ppbv	
34) 2-Butanone	5.38	43	329000	1.49	ppbv	99
36) Benzene	7.05	78	136094	0.48	ppbv	95
50) 4-Methyl-2-Pentanone	8.94	43	59499m	0.18	ppbv	
52) Tetrachloroethene	11.42	164	127274m	1.45	ppbv	
53) Toluene	9.99	91	516196	1.75	ppbv	99
58) Ethyl Benzene	12.92	91	171596	0.45	ppbv	92
59) m/p-Xylene	13.17	91	607266m	1.80	ppbv	
60) o-Xylene	13.91	91	167411m	0.51	ppbv	
72) 4-Ethyltoluene	16.05	105	117869m	0.33	ppbv	
73) 1,3,5-Trimethylbenzene	16.21	105	61462	0.17	ppbv	94
74) 1,2,4-Trimethylbenzene	16.97	105	301214	0.76	ppbv #	70

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

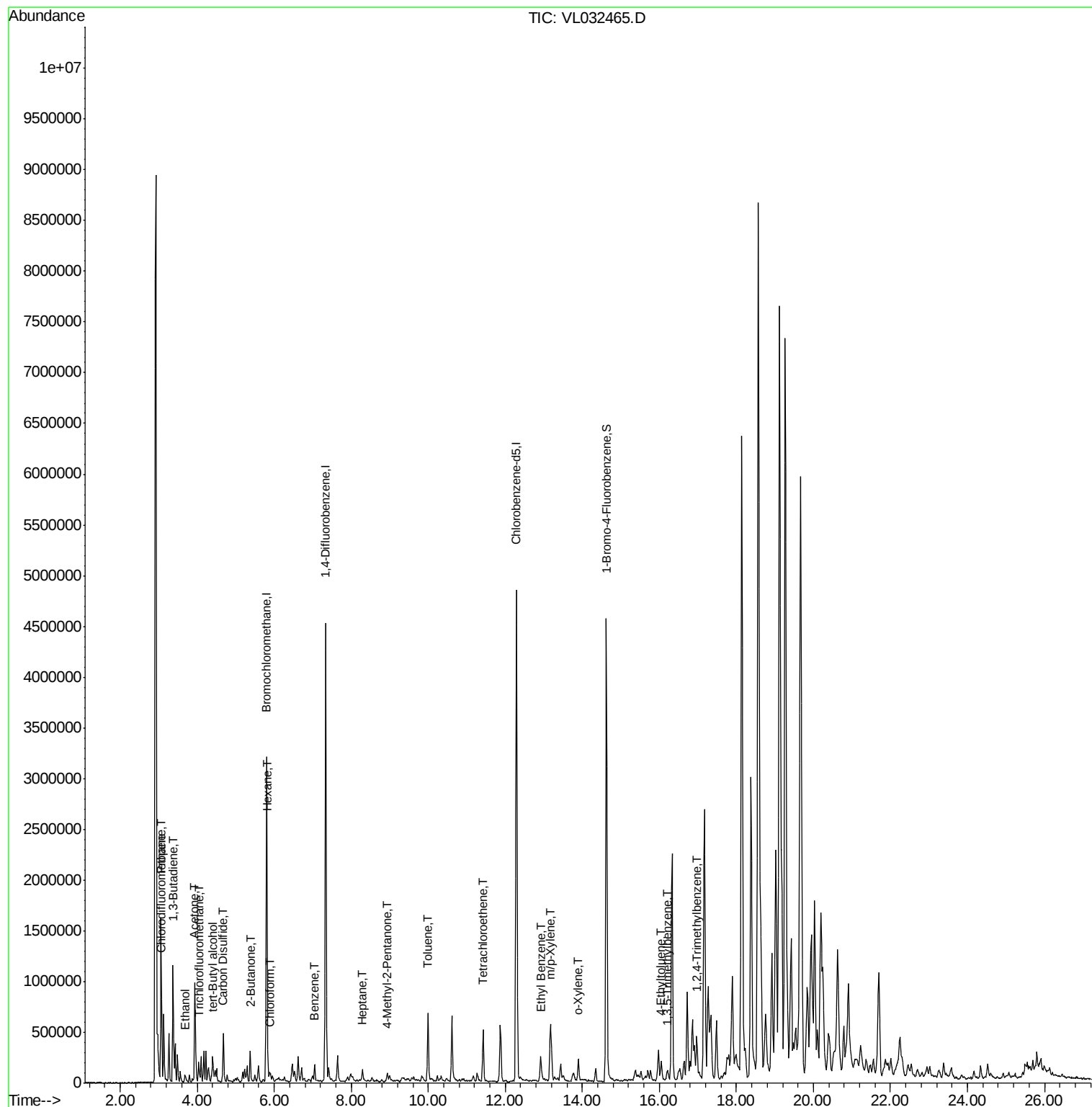
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090518\
Data File : VL032465.D
Acq On : 5 Sep 2018 20:10
Operator : SY/AP
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Misc : 400ml/MSVOA L
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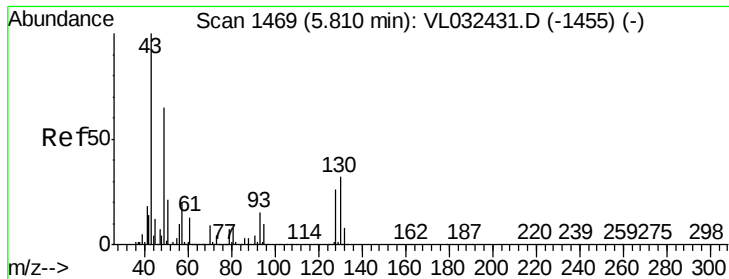
Instrument :
MSVOA_L
ClientSampleId :
VP-03DL

Manual Integrations
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Quant Time: Sep 06 06:55:15 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





#1

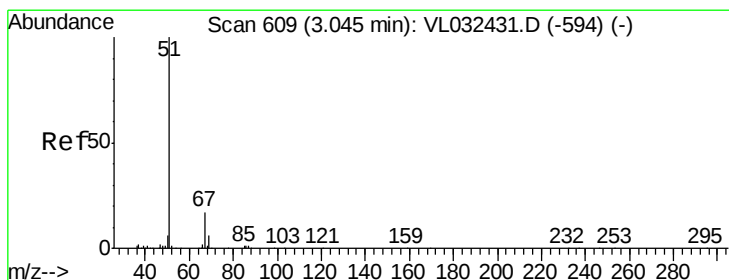
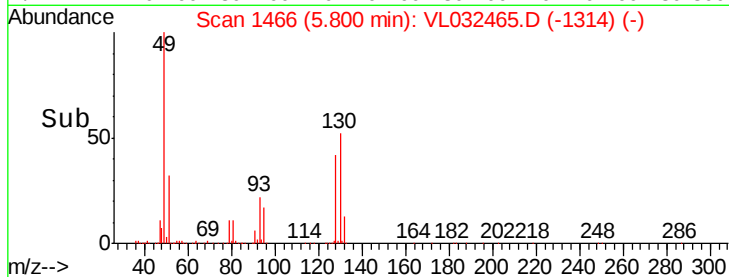
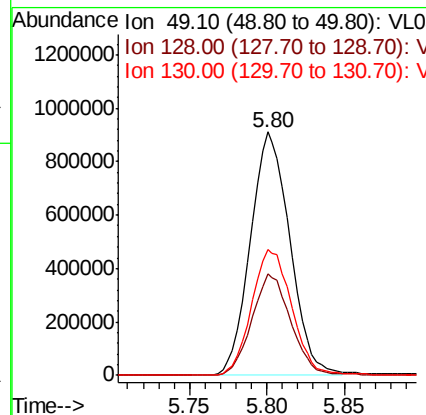
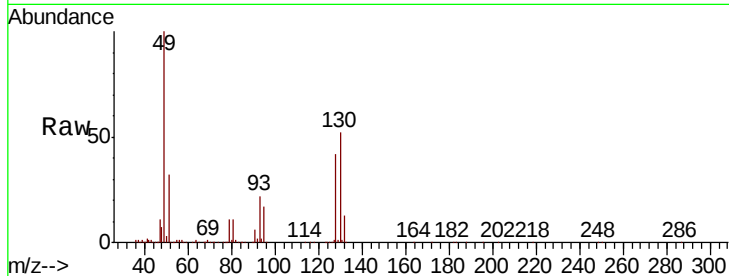
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.80 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: VL032465.D
 Acq: 5 Sep 2018 20:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-03DL

Tot Ion	Ratio	Lower	Upper
49	100		
128	41.5	20.7	62.1
130	53.1	26.6	79.7

Manual Integrations
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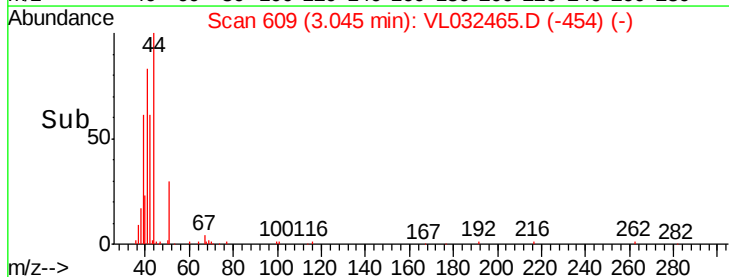
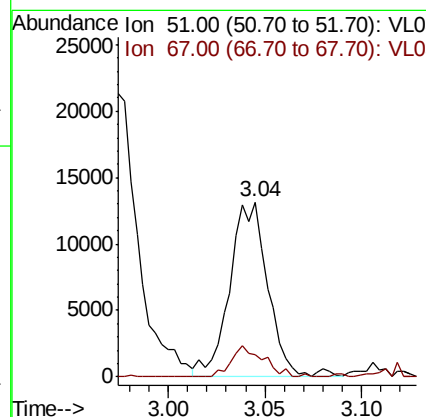
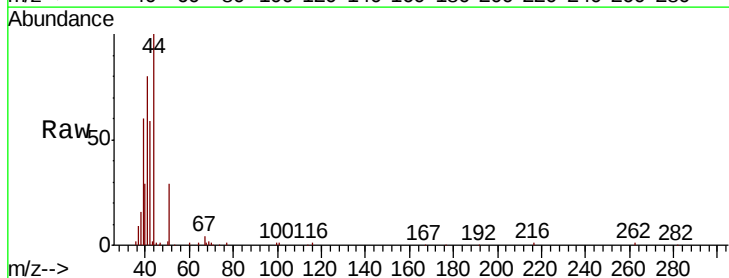
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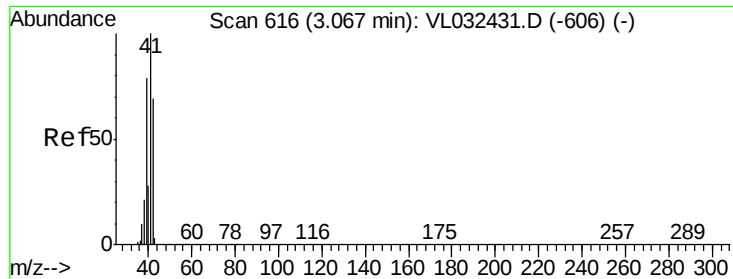


#3

Chlorodifluoromethane
 Concen: 0.12 ppbv
 RT: 3.04 min Scan# 609
 Delta R.T. -0.00 min
 Lab File: VL032465.D
 Acq: 5 Sep 2018 20:10

Tgt Ion	Ratio	Lower	Upper
51	100		
67	15.0	13.8	20.8





#9

Propene

Concen: 11.15 ppbv

RT: 3.06 min Scan# 615

Delta R.T. -0.00 min

Lab File: VL032465.D

Acq: 5 Sep 2018 20:10

Instrument :

MSVOA_L

ClientSampled :

VP-03DL

Tot Ion: 41 Resp: 659959

Ion Ratio Lower Upper

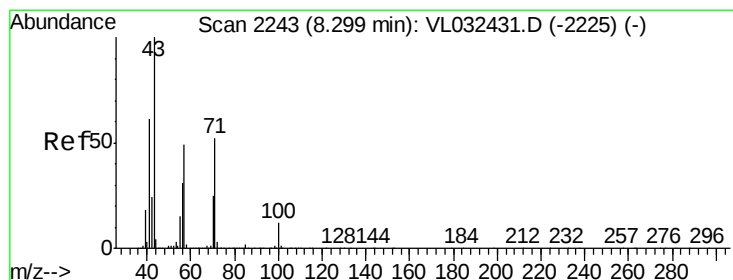
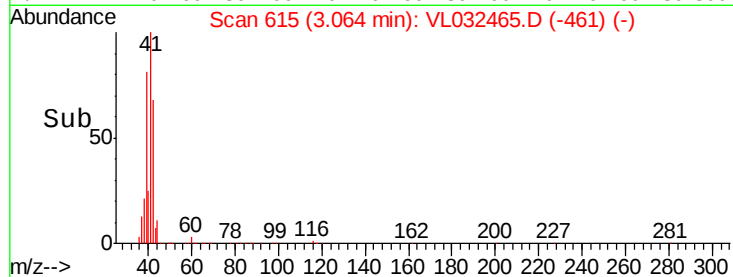
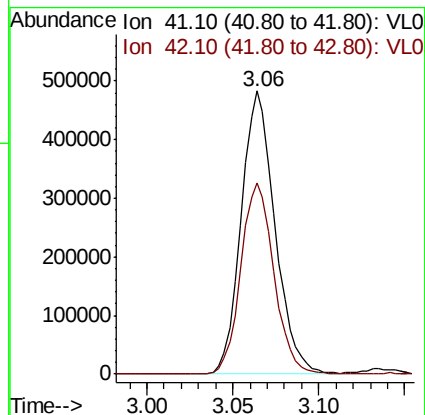
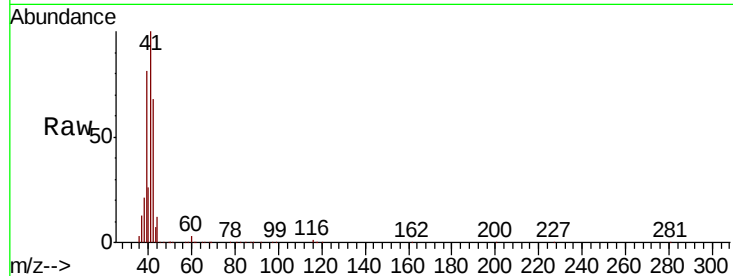
41 100

42 66.2 56.6 84.8

Manual Integrations
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#10

Heptane

Concen: 0.21 ppbv

RT: 8.30 min Scan# 2242

Delta R.T. -0.00 min

Lab File: VL032465.D

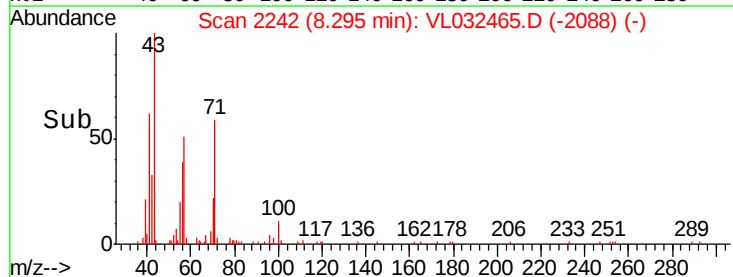
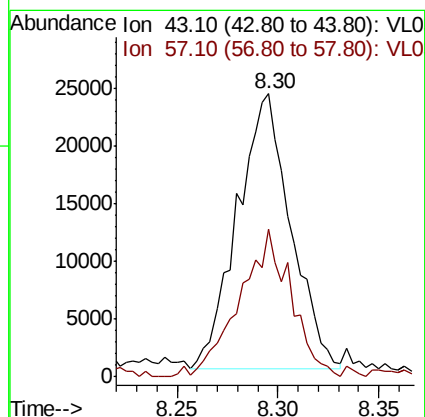
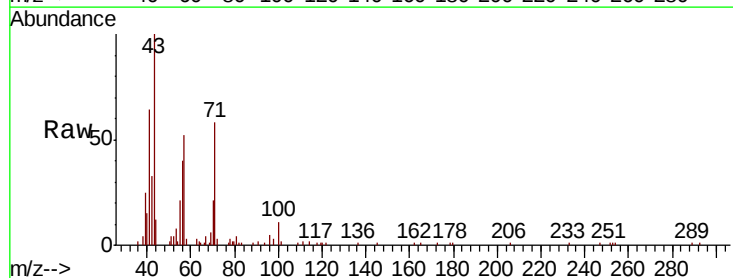
Acq: 5 Sep 2018 20:10

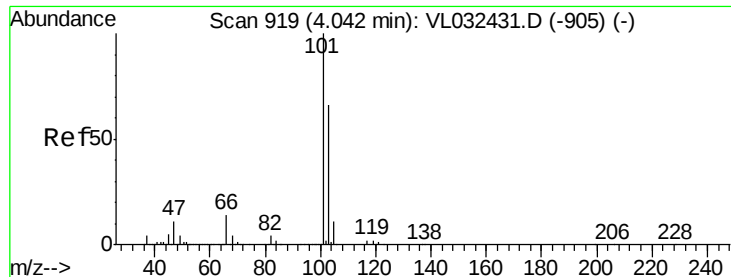
Tgt Ion: 43 Resp: 44223

Ion Ratio Lower Upper

43 100

57 52.3 39.6 59.4





#11

Trichlorofluoromethane

Concen: 0.59 ppbv

RT: 4.04 min Scan# 919

Delta R.T. -0.00 min

Lab File: VL032465.D

Acq: 5 Sep 2018 20:10

Instrument :

MSVOA_L

ClientSampleId :

VP-03DL

Tot Ion: 101 Resp: 110456

Ion Ratio Lower Upper

101 100

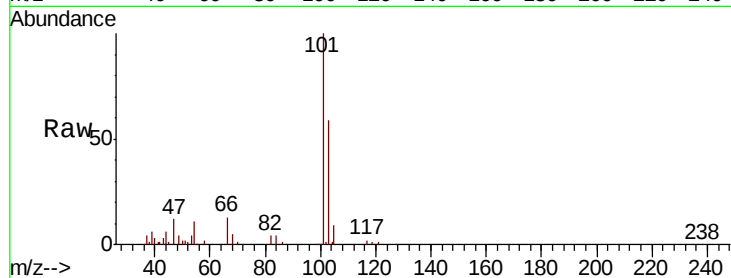
103 58.7 52.8 79.2

Manual Integrations

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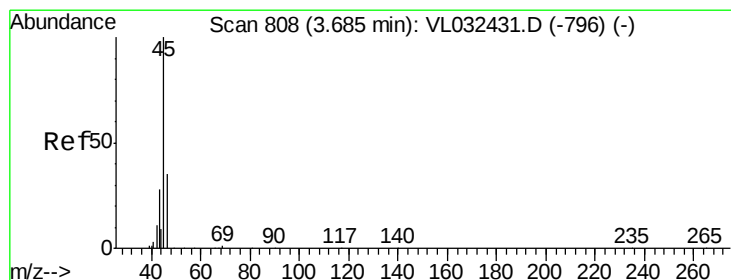
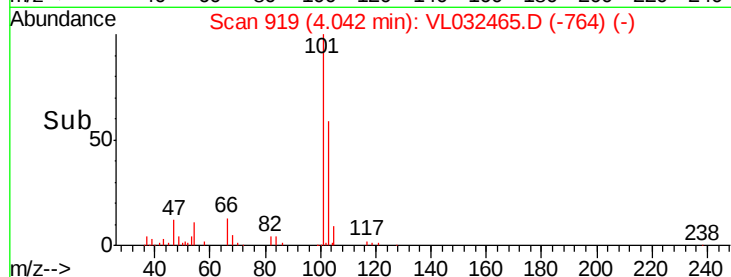
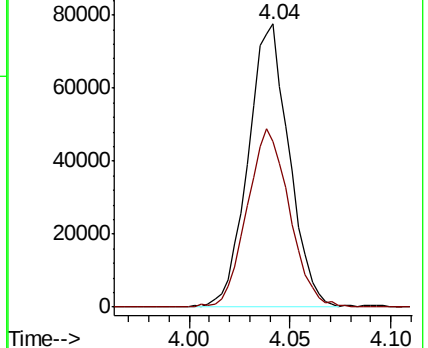
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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V



#13

Ethanol

Concen: 3.98 ppbv

RT: 3.68 min Scan# 808

Delta R.T. -0.00 min

Lab File: VL032465.D

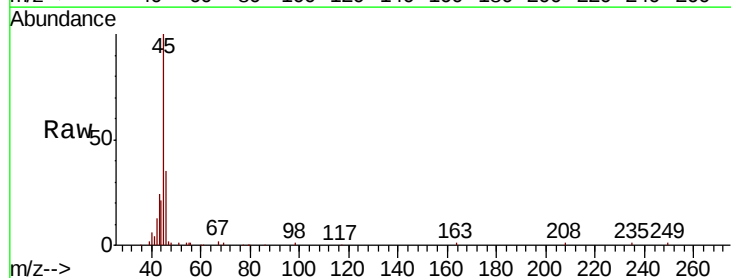
Acq: 5 Sep 2018 20:10

Tgt Ion: 45 Resp: 73433

Ion Ratio Lower Upper

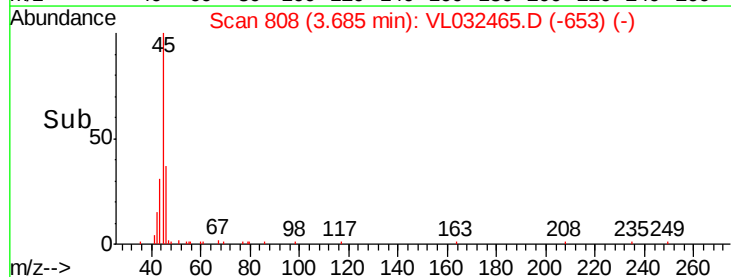
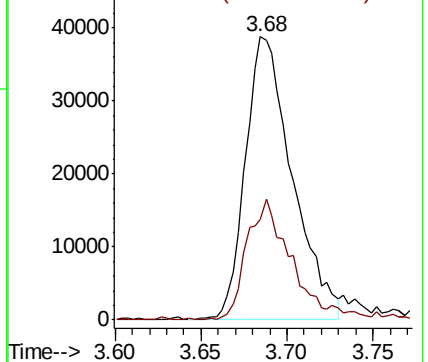
45 100

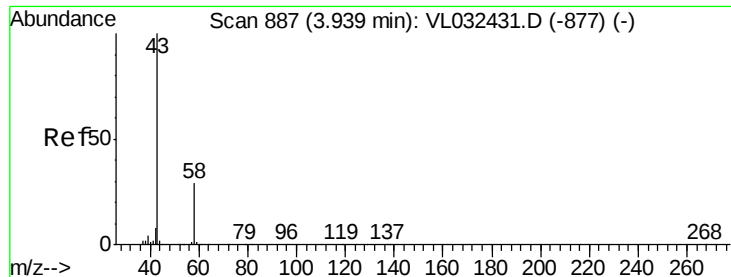
46 42.2 14.2 56.8



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0





#15

Acetone

Concen: 7.04 ppbv

RT: 3.94 min Scan# 886

Delta R.T. -0.00 min

Lab File: VL032465.D

Acq: 5 Sep 2018 20:10

Instrument :

MSVOA_L

ClientSampleId :

VP-03DL

Tot Ion: 43 Resp: 1028710

Ion Ratio Lower Upper

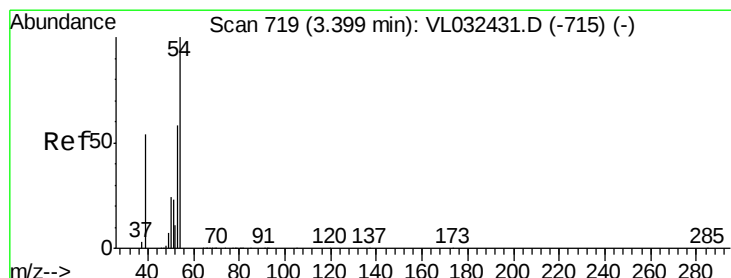
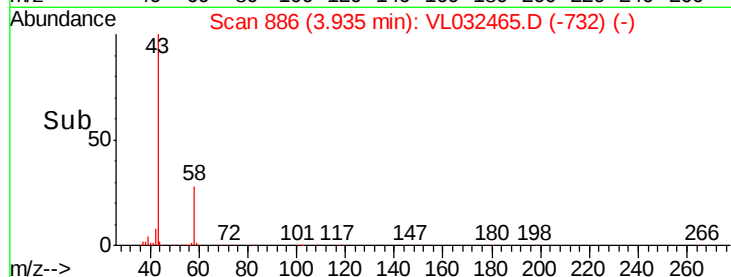
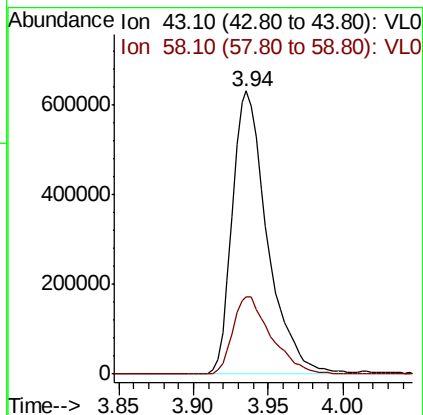
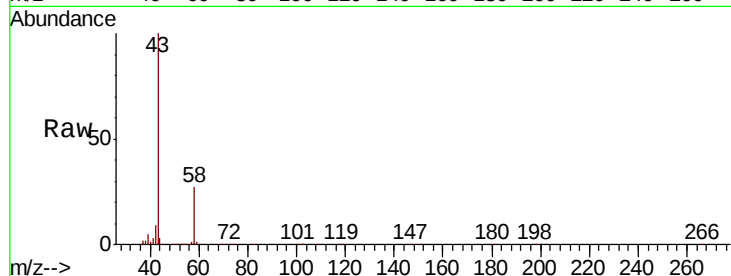
43 100

58 30.1 22.6 33.8

Manual Integrations
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#16

1,3-Butadiene

Concen: 1.93 ppbv m

RT: 3.38 min Scan# 713

Delta R.T. -0.02 min

Lab File: VL032465.D

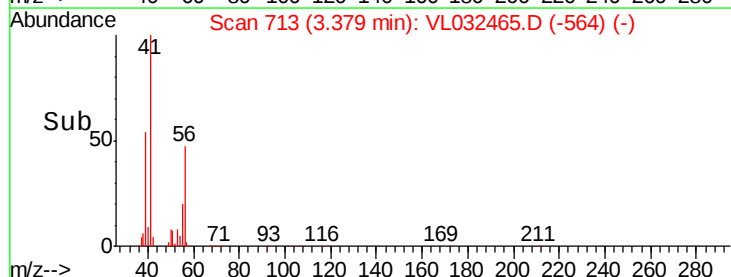
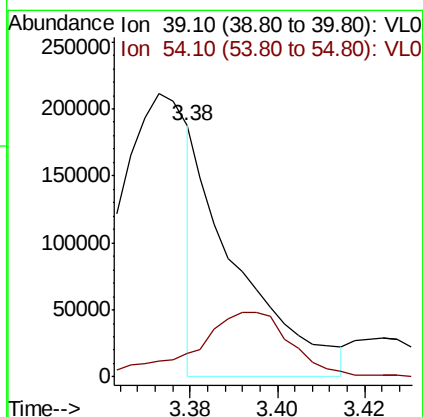
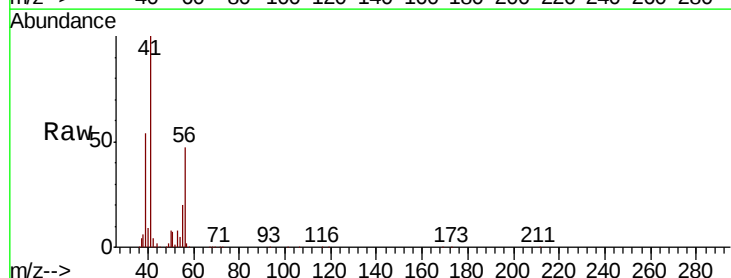
Acq: 5 Sep 2018 20:10

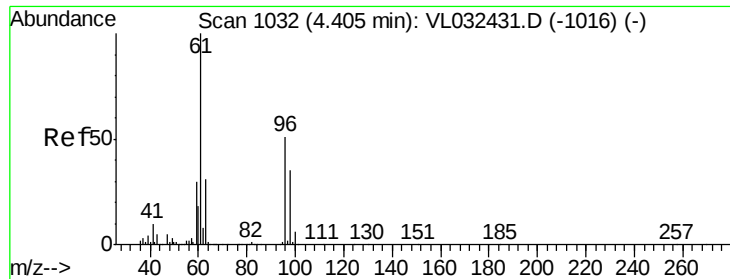
Tgt Ion: 39 Resp: 132376

Ion Ratio Lower Upper

39 100

54 56.7 80.8 121.2#





#17

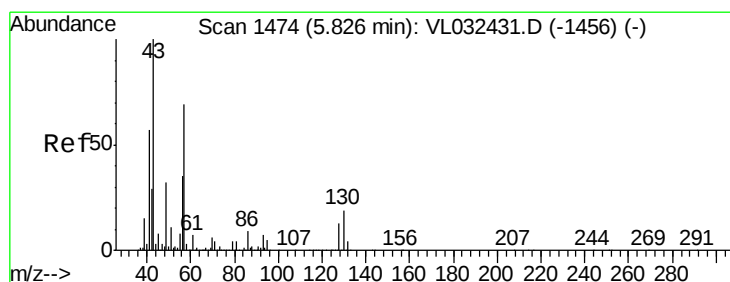
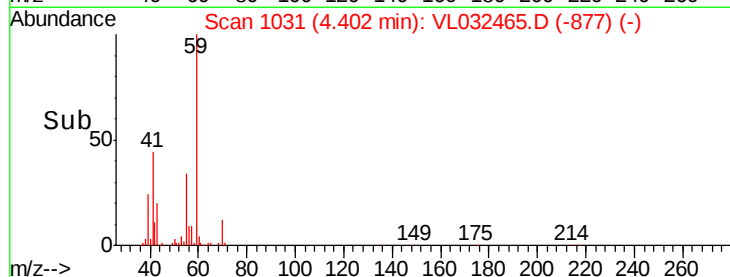
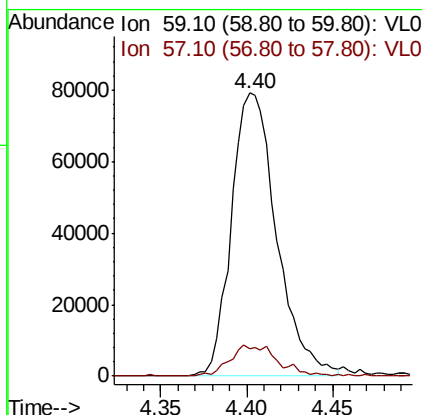
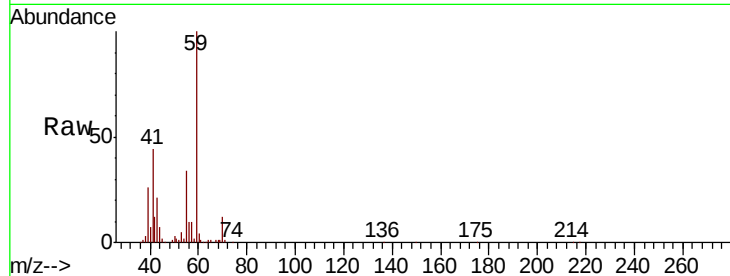
tert-Butyl alcohol
 Concen: 6.45 ppbv
 RT: 4.40 min Scan# 1031
 Delta R.T. -0.00 min
 Lab File: VL032465.D
 Acq: 5 Sep 2018 20:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-03DL

Tot Ion: 59 Resp: 145005
 Ion Ratio Lower Upper
 59 100
 57 11.8 0.0 0.0#

Manual Integrations
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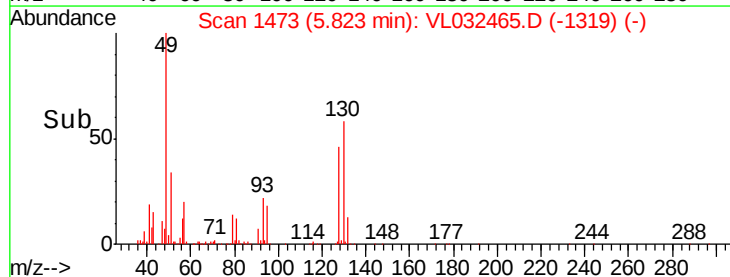
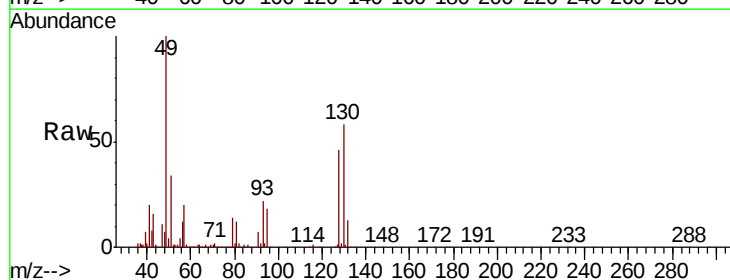
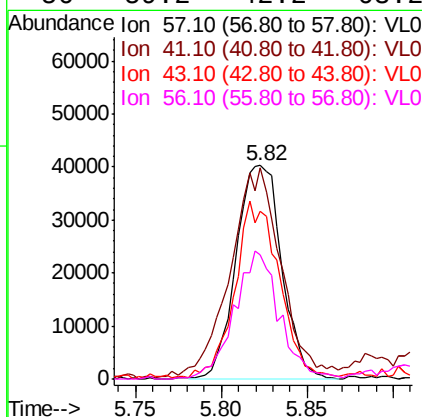
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 9/7/2018 10:46:00 AM

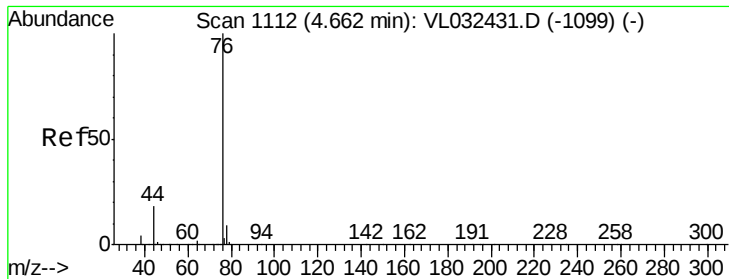


#26

Hexane
 Concen: 0.48 ppbv
 RT: 5.82 min Scan# 1473
 Delta R.T. -0.00 min
 Lab File: VL032465.D
 Acq: 5 Sep 2018 20:10

Tgt Ion: 57 Resp: 74363
 Ion Ratio Lower Upper
 57 100
 41 112.4 69.0 103.4#
 43 79.5 172.1 258.1#
 56 59.2 42.2 63.2





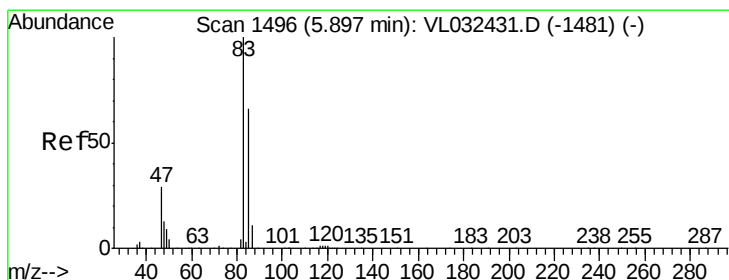
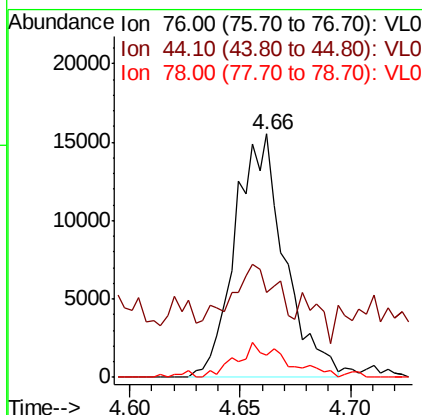
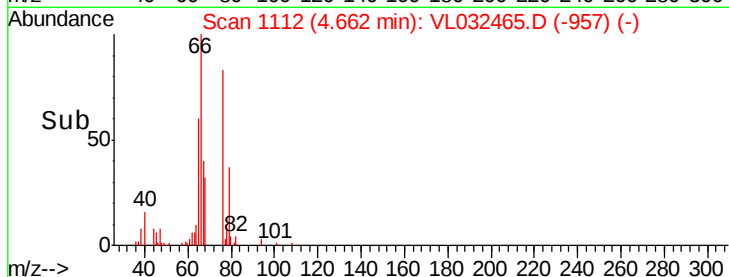
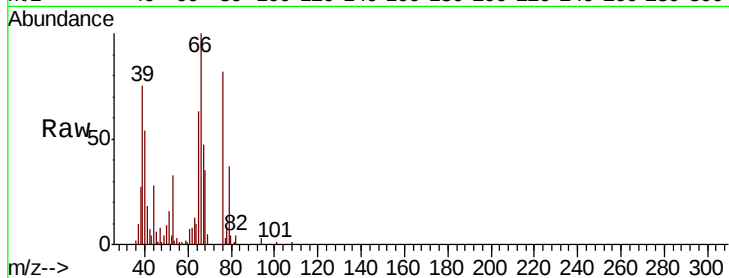
#27
Carbon Disulfide
Concen: 0.17 ppbv
RT: 4.66 min Scan# 1112
Delta R.T. -0.00 min
Lab File: VL032465.D
Acq: 5 Sep 2018 20:10

Instrument :
MSVOA_L
ClientSampleId :
VP-03DL

Tot Ion	Ratio	Lower	Upper
76	100		
44	47.3	14.0	21.0#
78	15.4	7.5	11.3#

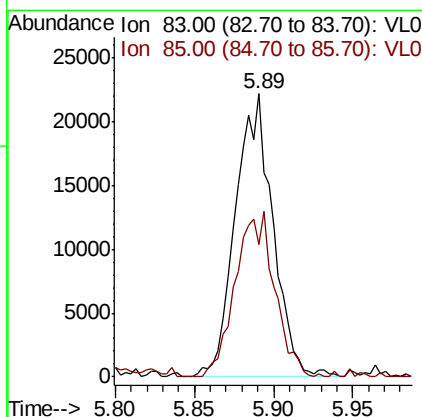
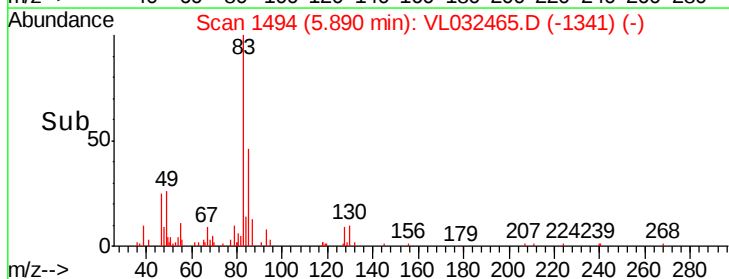
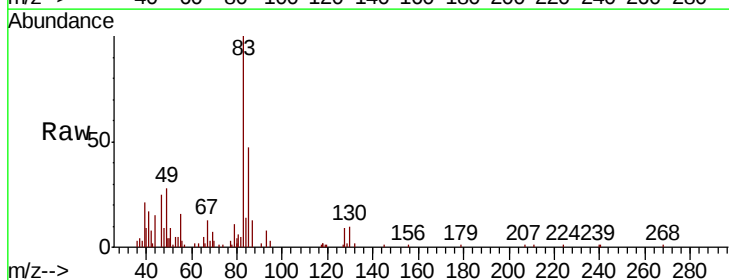
Manual Integrations
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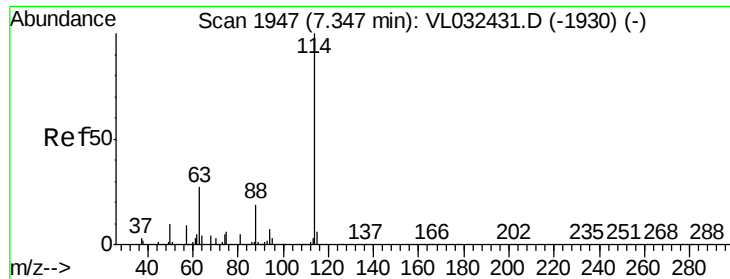
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9/7/2018 10:46:00 AM



#29
Chloroform
Concen: 0.16 ppbv m
RT: 5.89 min Scan# 1494
Delta R.T. -0.01 min
Lab File: VL032465.D
Acq: 5 Sep 2018 20:10

Tgt Ion	Ratio	Lower	Upper
83	100		
85	46.8	52.5	78.7#





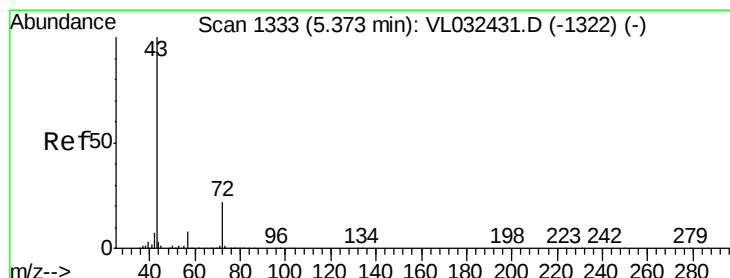
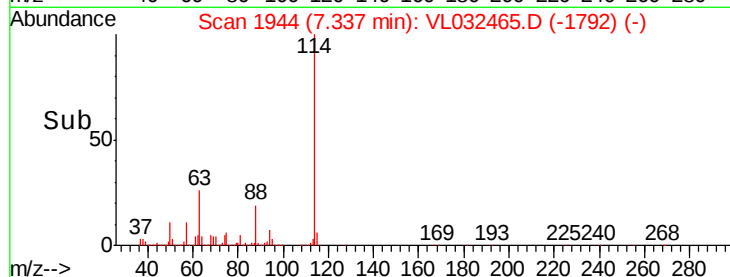
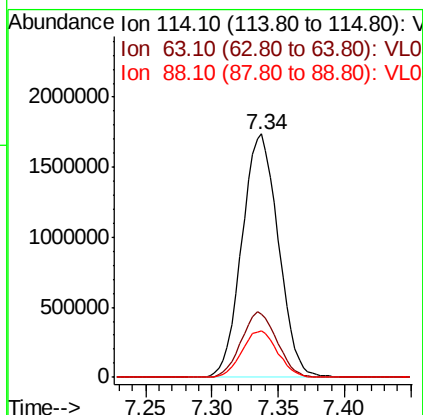
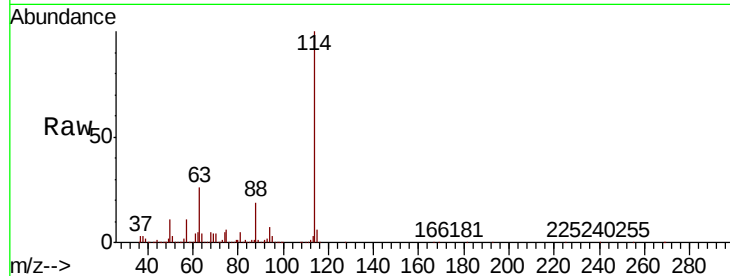
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.34 min Scan# 1944
 Delta R.T. -0.01 min
 Lab File: VL032465.D
 Acq: 5 Sep 2018 20:10

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-03DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.5	22.2	33.4
88	18.9	15.0	22.4

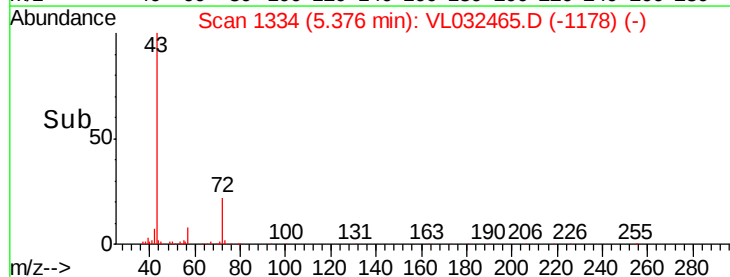
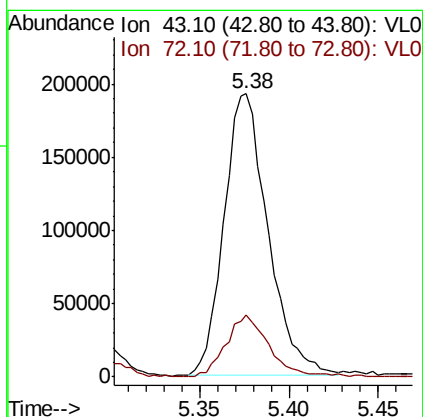
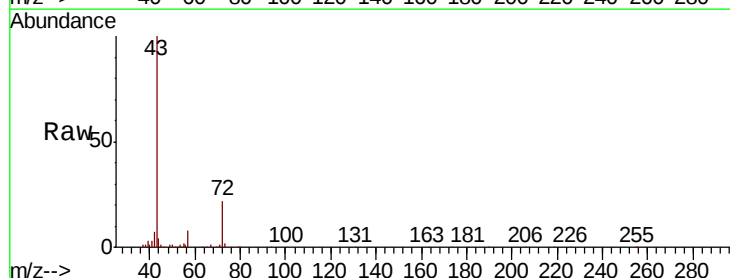
Manual Integrations
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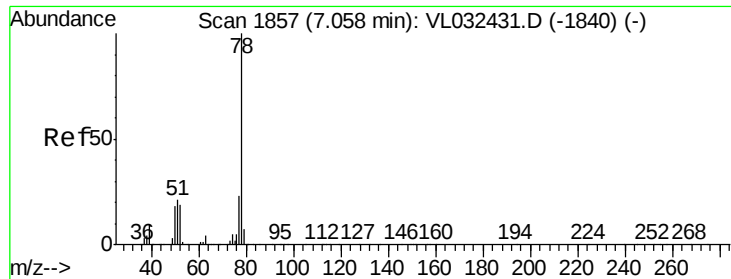
MMDadoda
 9/7/2018 10:46:00 AM



#34
 2-Butanone
 Concen: 1.49 ppbv
 RT: 5.38 min Scan# 1334
 Delta R.T. 0.00 min
 Lab File: VL032465.D
 Acq: 5 Sep 2018 20:10

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.6	17.8	26.6





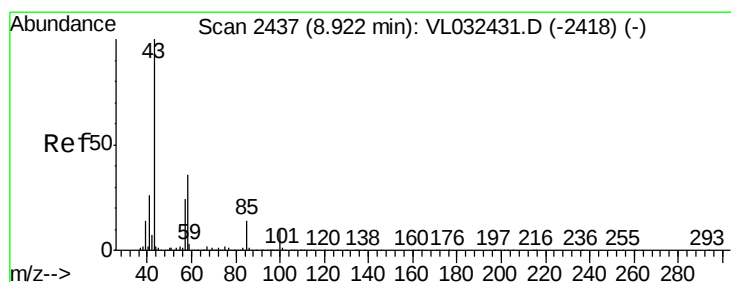
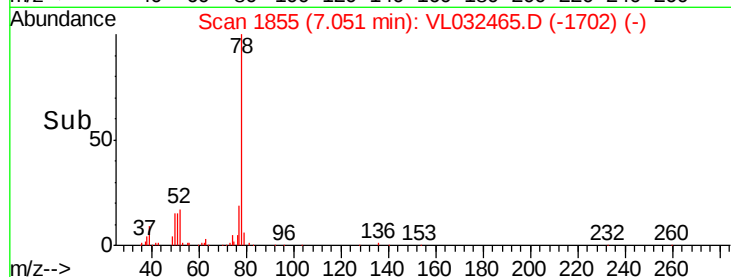
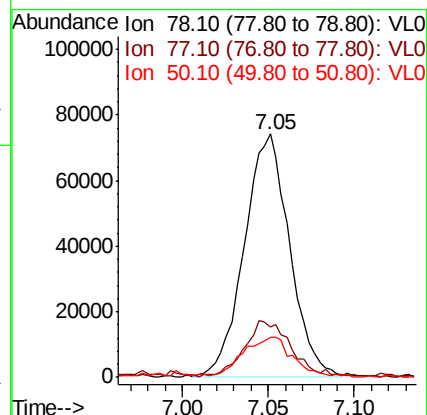
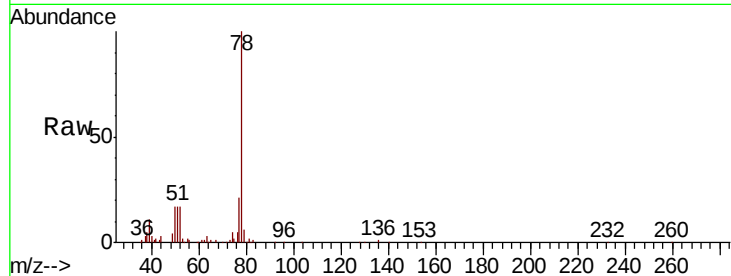
#36
Benzene
Concen: 0.48 ppbv
RT: 7.05 min Scan# 1855
Delta R.T. -0.01 min
Lab File: VL032465.D
Acq: 5 Sep 2018 20:10

Instrument :
MSVOA_L
ClientSampleId :
VP-03DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.9	18.4	27.6
50	16.3	14.4	21.6

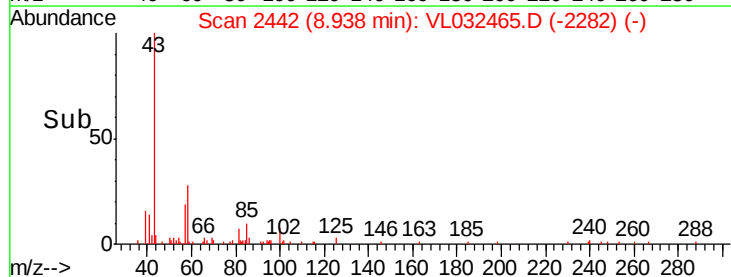
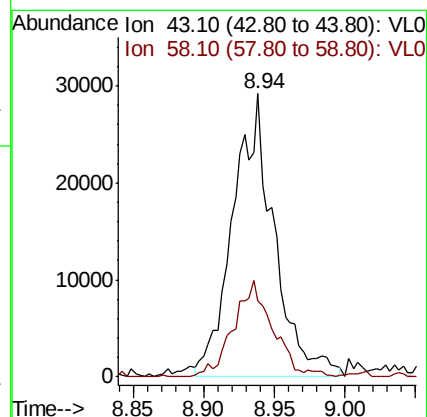
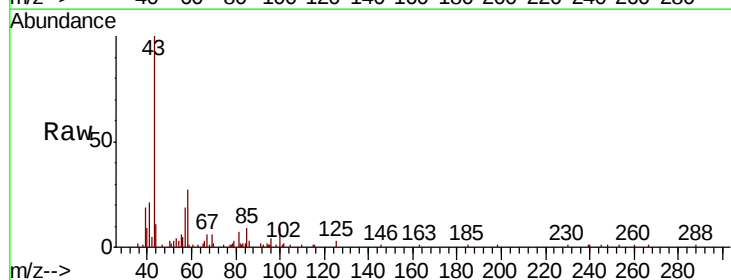
Manual Integrations
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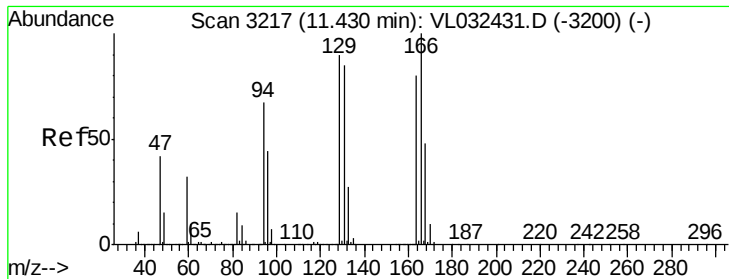
MMDadoda
9/7/2018 10:46:00 AM



#50
4-Methyl-2-Pentanone
Concen: 0.18 ppbv m
RT: 8.94 min Scan# 2442
Delta R.T. 0.02 min
Lab File: VL032465.D
Acq: 5 Sep 2018 20:10

Tgt Ion	Ratio	Lower	Upper
43	100		
58	0.0	29.0	43.4#





#52

Tetrachloroethene

Concen: 1.45 ppbv m

RT: 11.42 min Scan# 3213

Delta R.T. -0.01 min

Lab File: VL032465.D

Acq: 5 Sep 2018 20:10

Instrument :

MSVOA_L

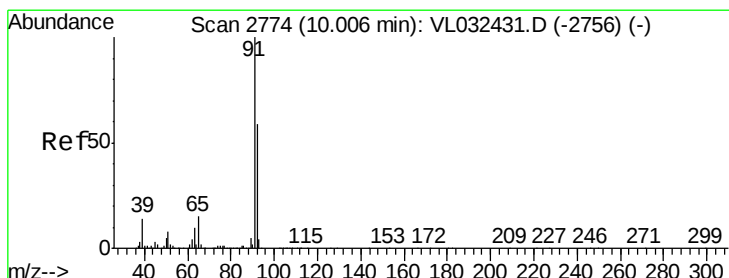
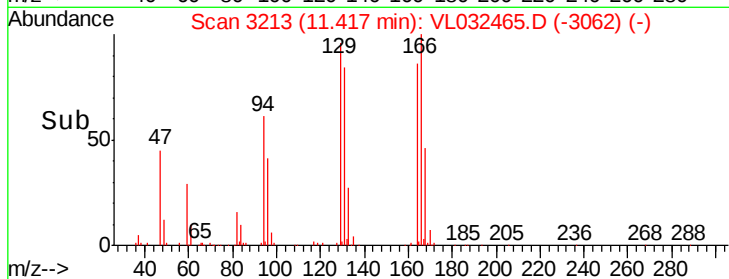
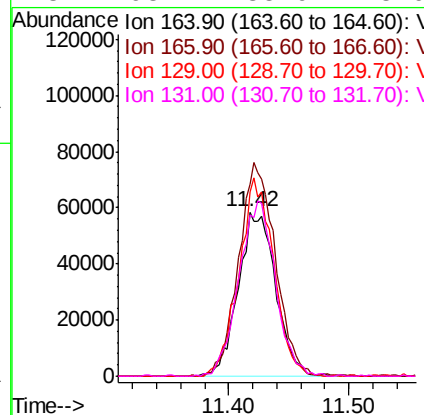
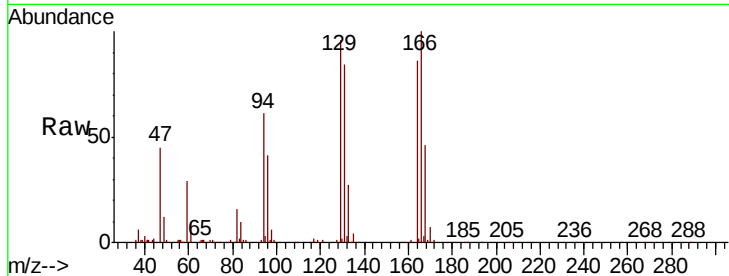
ClientSampled :

VP-03DL

Tot Ion:	164	Resp:	127274
Ion Ratio	Lower	Upper	
164	100		
166	116.4	100.6	150.8
129	111.8	89.9	134.9
131	98.2	85.9	128.9

Manual Integrations
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9/7/2018 10:46:00 AM



#53

Toluene

Concen: 1.75 ppbv

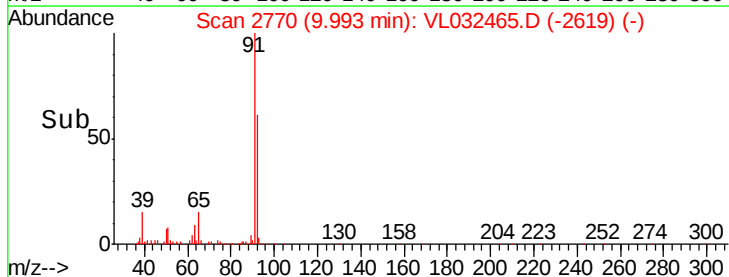
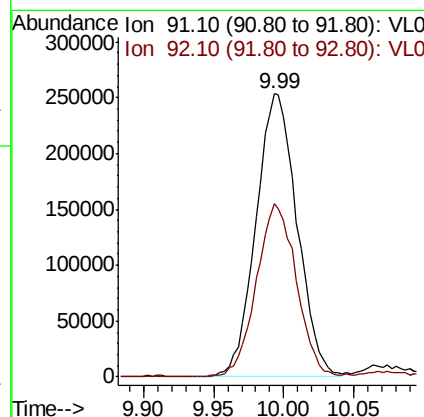
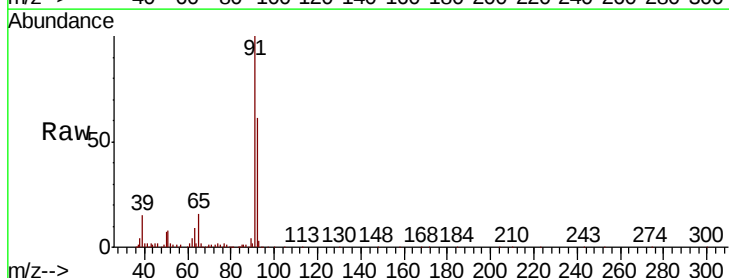
RT: 9.99 min Scan# 2770

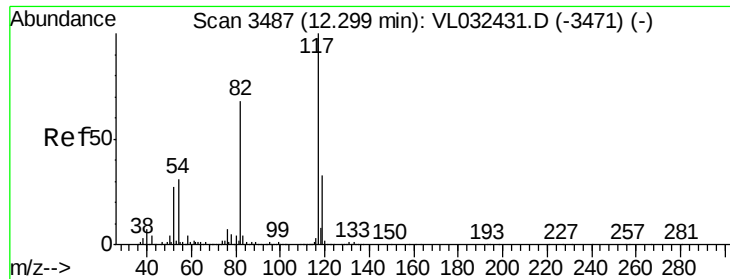
Delta R.T. -0.01 min

Lab File: VL032465.D

Acq: 5 Sep 2018 20:10

Tgt Ion:	91	Resp:	516196
Ion Ratio	Lower	Upper	
91	100		
92	59.3	48.1	72.1





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.29 min Scan# 3484

Delta R.T. -0.01 min

Lab File: VL032465.D

Acq: 5 Sep 2018 20:10

Instrument :

MSVOA_L

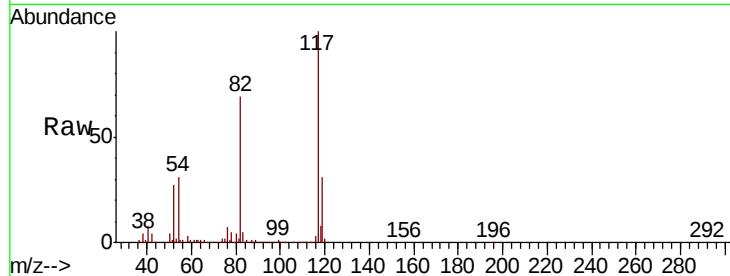
ClientSampleId :

VP-03DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.5	53.0	79.6
119	32.4	45.9	68.9#

Manual Integrations
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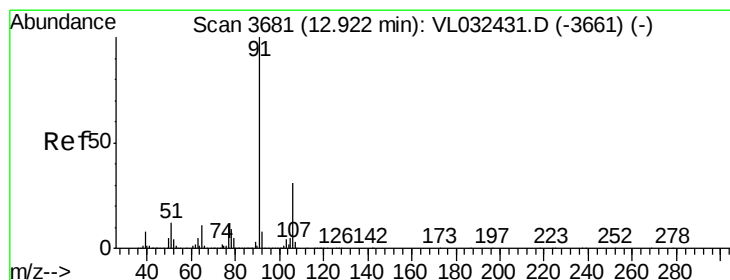
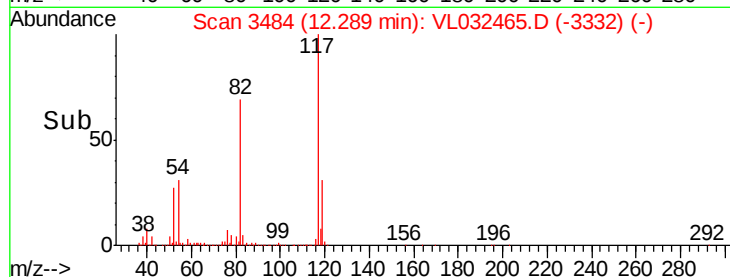
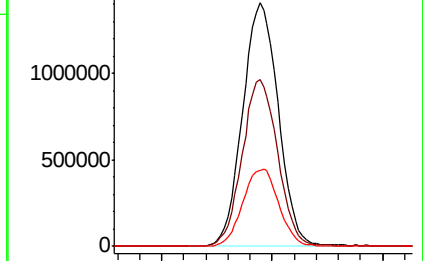
MMDadoda
9/7/2018 10:46:00 AM



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



#58

Ethyl Benzene

Concen: 0.45 ppbv

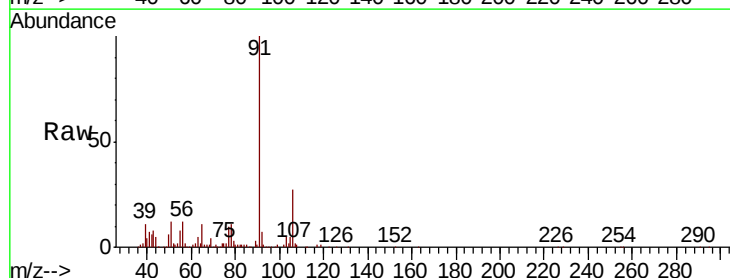
RT: 12.92 min Scan# 3679

Delta R.T. -0.01 min

Lab File: VL032465.D

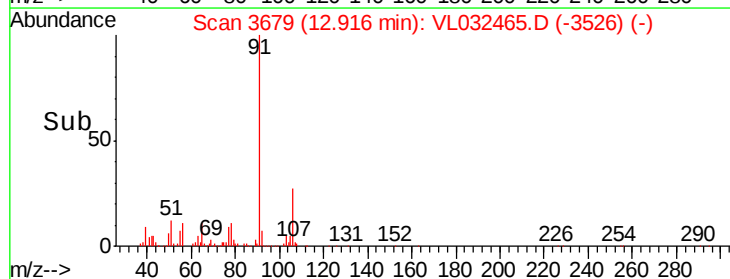
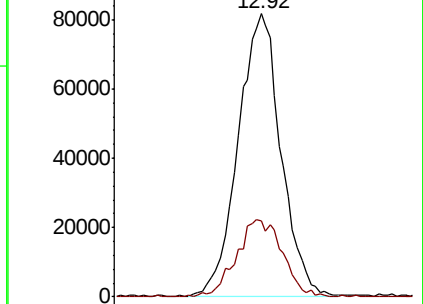
Acq: 5 Sep 2018 20:10

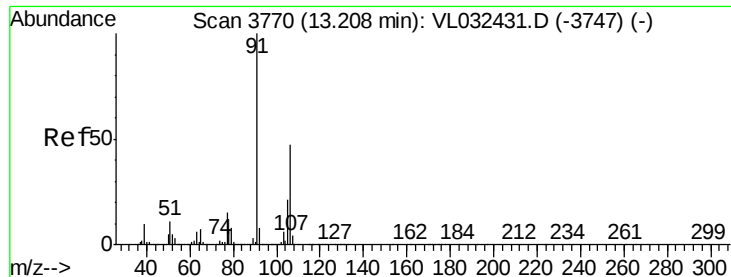
Tgt Ion	Ratio	Lower	Upper
91	100		
106	26.8	24.8	37.2



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





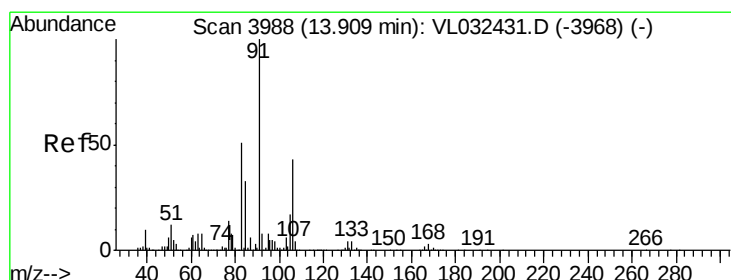
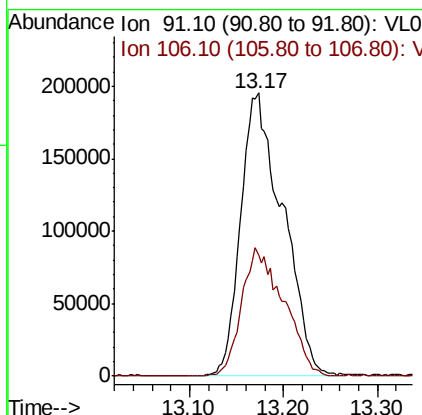
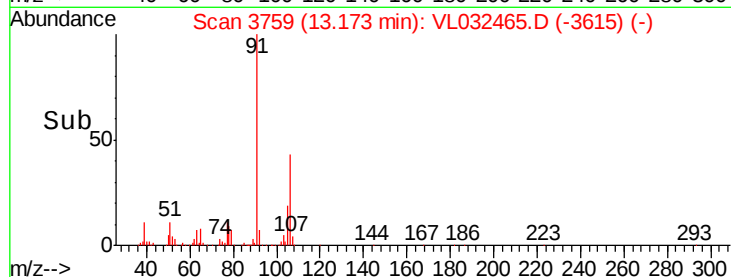
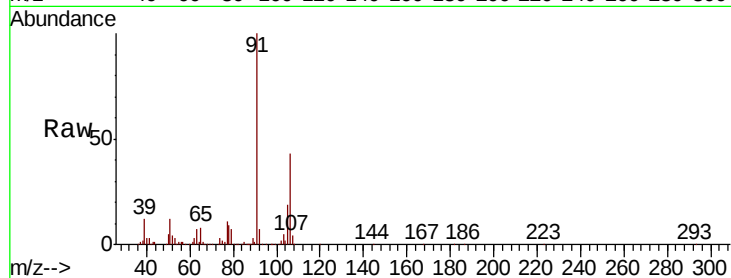
#59
m/p-Xylene
Concen: 1.80 ppbv m
RT: 13.17 min Scan# 3759
Delta R.T. -0.04 min
Lab File: VL032465.D
Acq: 5 Sep 2018 20:10

Instrument :
MSVOA_L
ClientSampled :
VP-03DL

Tot Ion: 91 Resp: 607266
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

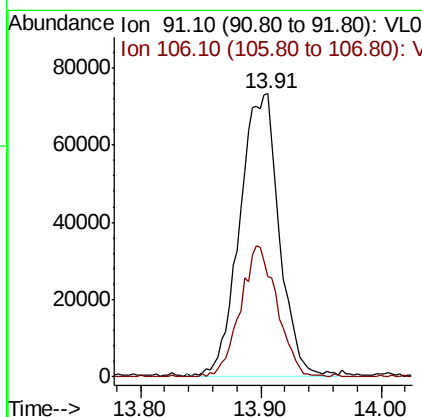
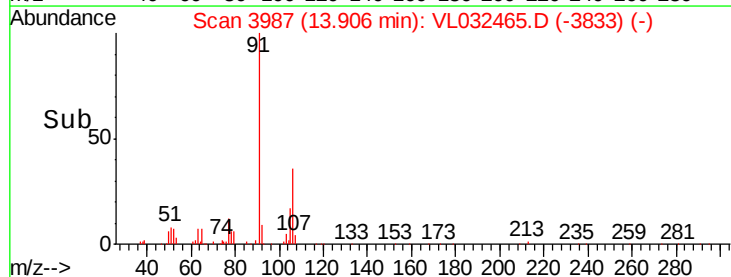
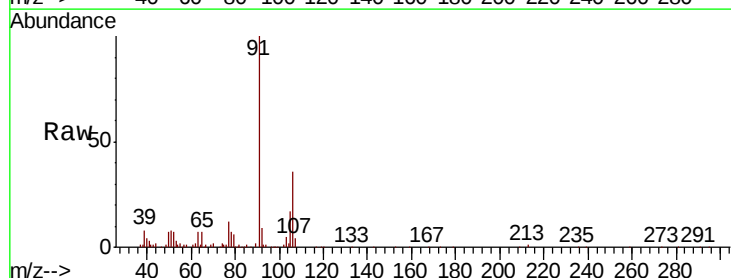
Manual Integrations
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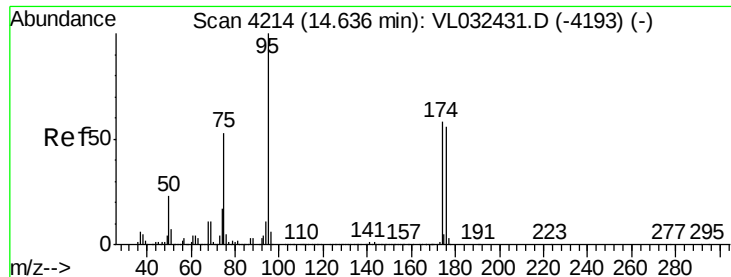
MMDadoda
9/7/2018 10:46:00 AM



#60
o-Xylene
Concen: 0.51 ppbv m
RT: 13.91 min Scan# 3987
Delta R.T. -0.00 min
Lab File: VL032465.D
Acq: 5 Sep 2018 20:10

Tgt Ion: 91 Resp: 167411
Ion Ratio Lower Upper
91 100
106 43.0 21.9 65.7





#68

1-Bromo-4-Fluorobenzene

Concen: 10.26 ppbv

RT: 14.63 min Scan# 4211

Delta R.T. -0.01 min

Lab File: VL032465.D

Acq: 5 Sep 2018 20:10

Instrument :

MSVOA_L

ClientSampled :

VP-03DL

Tot Ion: 95 Resp: 2404478

Ion Ratio Lower Upper

95 100

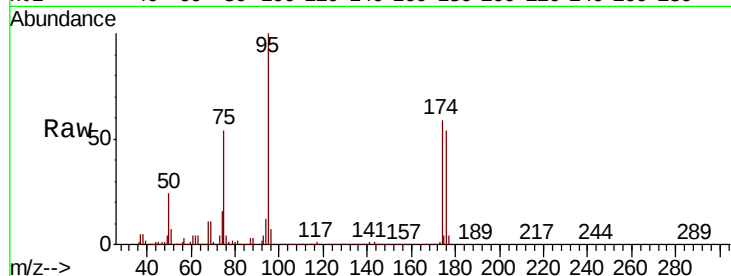
174 57.7 46.3 69.5

175 4.3 3.4 5.0

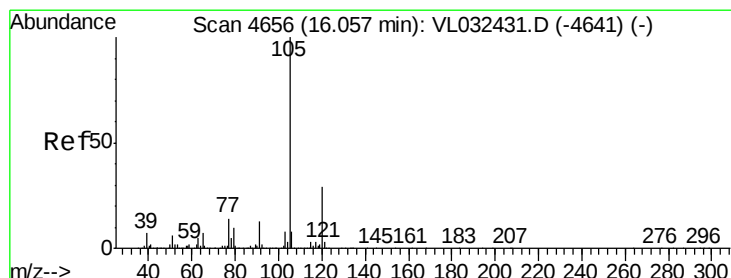
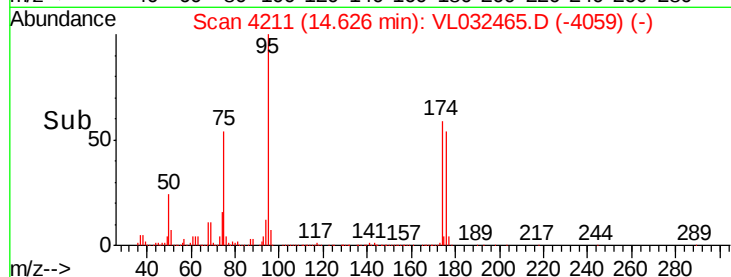
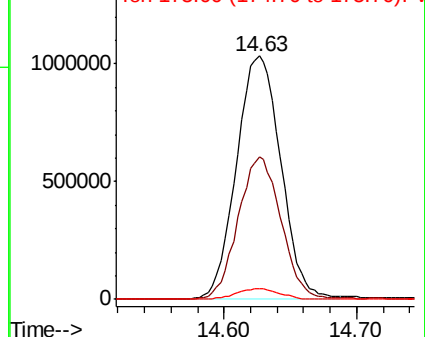
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Abundance Ion 95.10 (94.80 to 95.80): VL0
Ion 174.00 (173.70 to 174.70): V
Ion 175.00 (174.70 to 175.70): V



#72

4-Ethyltoluene

Concen: 0.33 ppbv m

RT: 16.05 min Scan# 4653

Delta R.T. -0.01 min

Lab File: VL032465.D

Acq: 5 Sep 2018 20:10

Tgt Ion: 105 Resp: 117869

Ion Ratio Lower Upper

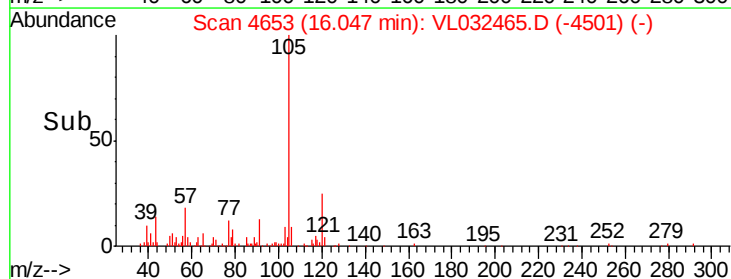
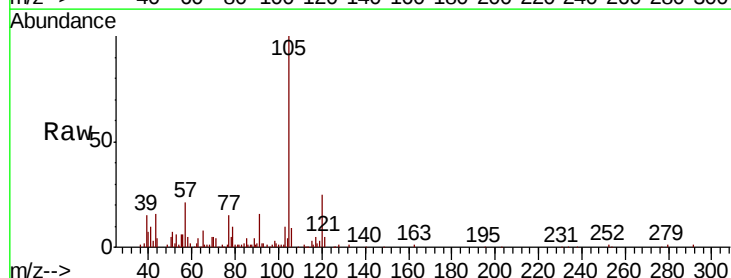
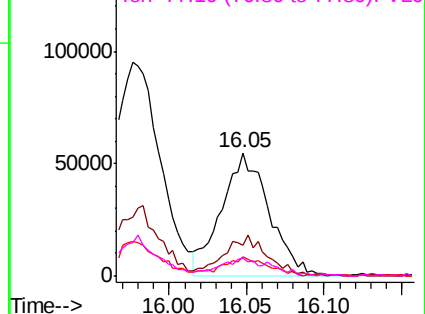
105 100

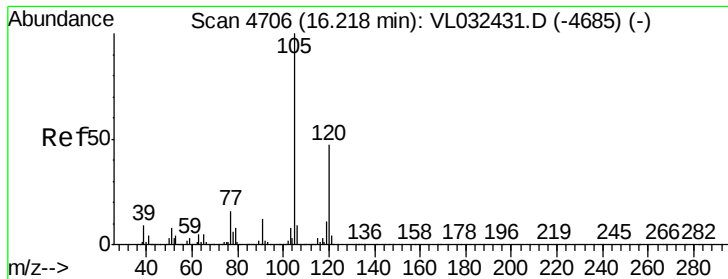
120 29.5 23.5 35.3

91 13.1 10.2 15.2

77 15.0 11.1 16.7

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: 0.17 ppbv

RT: 16.21 min Scan# 4703

Delta R.T. -0.01 min

Lab File: VL032465.D

Acq: 5 Sep 2018 20:10

Instrument :

MSVOA_L

ClientSampleId :

VP-03DL

Tot Ion:105 Resp: 61462

Ion Ratio Lower Upper

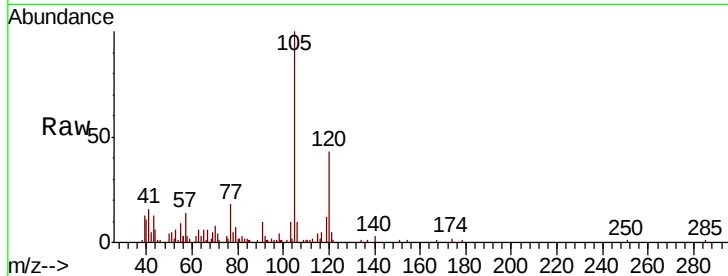
105 100

120 43.2 37.9 56.9

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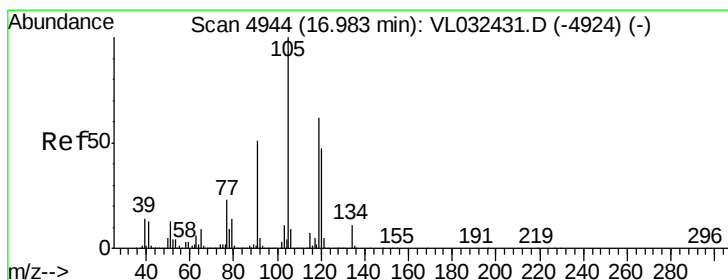
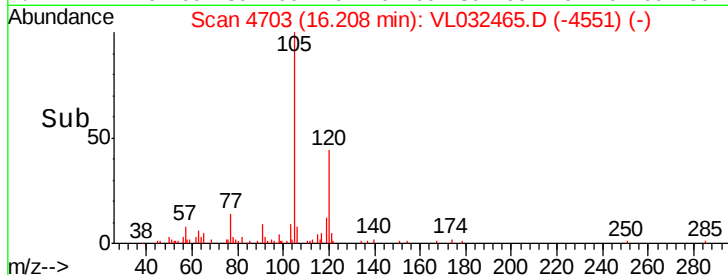
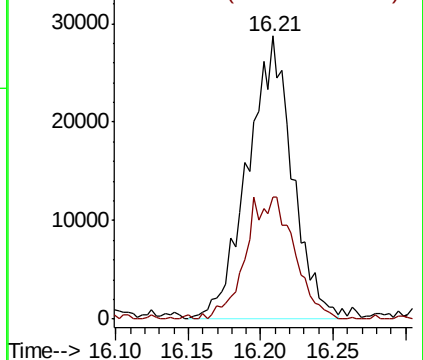
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V



#74

1,2,4-Trimethylbenzene

Concen: 0.76 ppbv

RT: 16.97 min Scan# 4941

Delta R.T. -0.01 min

Lab File: VL032465.D

Acq: 5 Sep 2018 20:10

Tgt Ion:105 Resp: 301214

Ion Ratio Lower Upper

105 100

120 43.3 37.8 56.8

91 9.9 41.4 62.0#

77 17.4 18.6 28.0#

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): VLO

Ion 77.10 (76.80 to 77.80): VLO

