

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090518\
 Data File : VL032466.D
 Acq On : 5 Sep 2018 20:49
 Operator : SY/AP
 Sample : J4745-03 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-01

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 10:46:01 AM

Quant Time: Sep 06 07:02:17 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	1601694	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3319628	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3172780	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.62	95	2444115	10.38	ppbv	-0.01
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.80%

Target Compounds

						Ovalue
9) Propene	3.06	41	844647	14.44	ppbv	95
10) Heptane	8.29	43	59063	0.28	ppbv	95
13) Ethanol	3.68	45	277296	15.21	ppbv	100
15) Acetone	3.93	43	2209043	15.32	ppbv	94
16) 1,3-Butadiene	3.38	39	173869m	2.56	ppbv	
17) tert-Butyl alcohol	4.40	59	374102	16.85	ppbv #	100
20) Methylene Chloride	4.44	84	45499	0.83	ppbv #	92
26) Hexane	5.82	57	120628	0.79	ppbv #	41
27) Carbon Disulfide	4.66	76	41475	0.29	ppbv #	87
34) 2-Butanone	5.37	43	610021	2.77	ppbv	98
36) Benzene	7.05	78	174384	0.62	ppbv	95
50) 4-Methyl-2-Pentanone	8.93	43	99247	0.30	ppbv	97
51) 2-Hexanone	10.32	43	108214	0.51	ppbv	96
52) Tetrachloroethene	11.42	164	32805m	0.37	ppbv	
53) Toluene	9.99	91	496011	1.68	ppbv	99
58) Ethyl Benzene	12.91	91	174489	0.46	ppbv	97
59) m/p-Xylene	13.17	91	526801m	1.56	ppbv	
60) o-Xylene	13.90	91	170031	0.51	ppbv	99
72) 4-Ethyltoluene	16.05	105	109937m	0.30	ppbv	
73) 1,3,5-Trimethylbenzene	16.21	105	58479m	0.16	ppbv	
74) 1,2,4-Trimethylbenzene	16.98	105	243434m	0.61	ppbv	

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

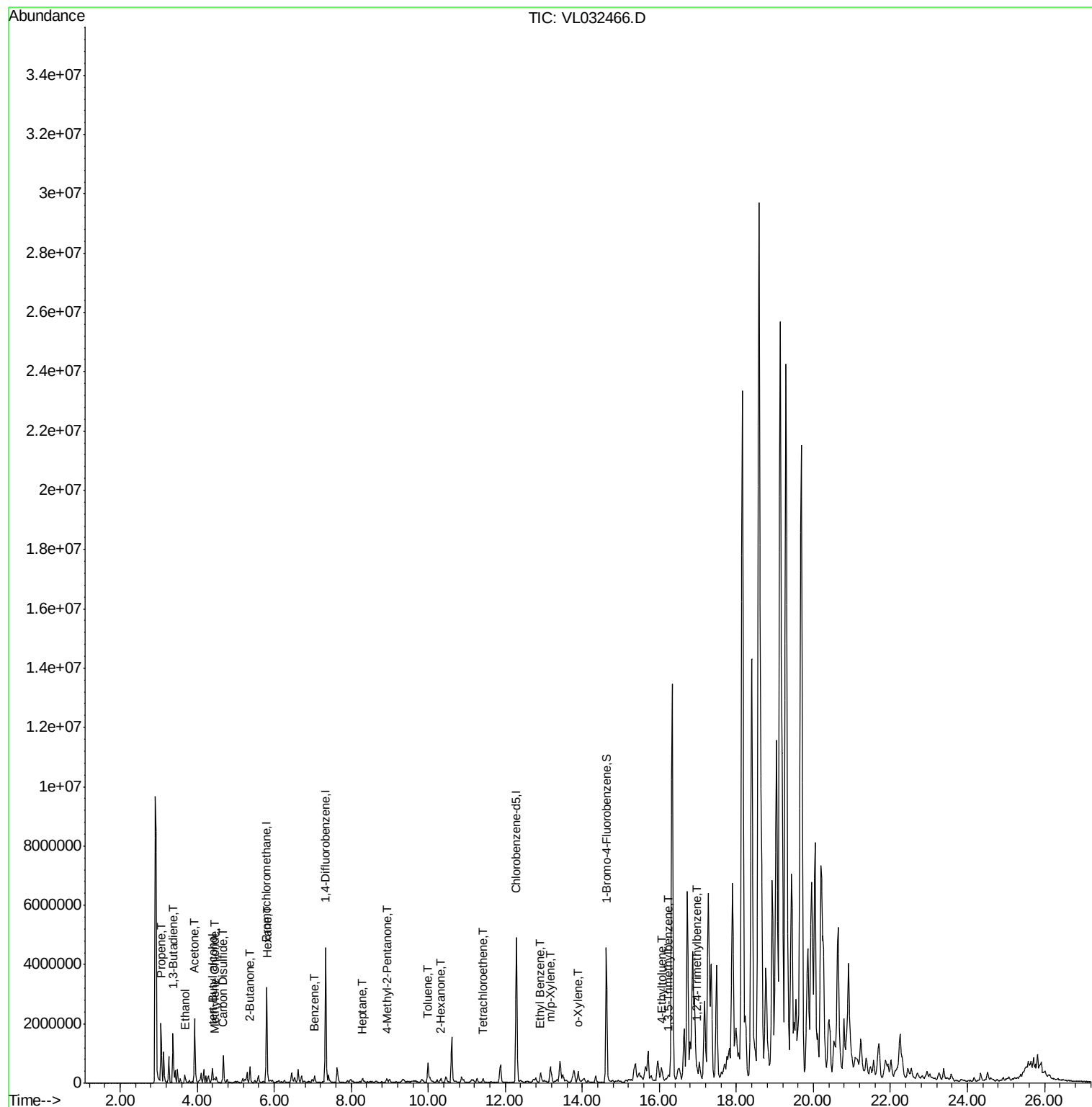
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090518\
Data File : VL032466.D
Acq On : 5 Sep 2018 20:49
Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

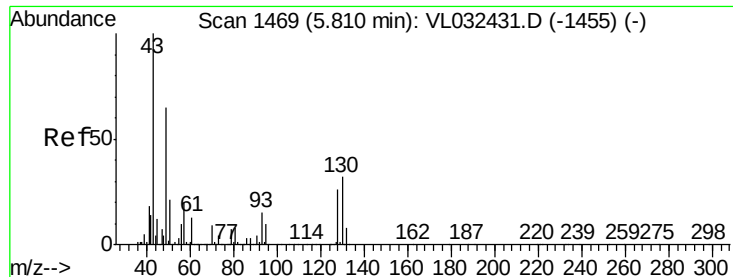
Instrument :
MSVOA_L
ClientSampleId :
VP-01

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Quant Time: Sep 06 07:02:17 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





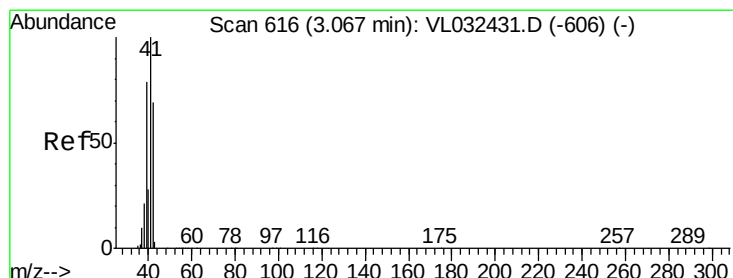
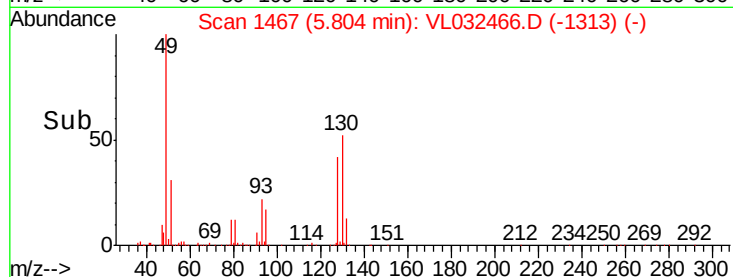
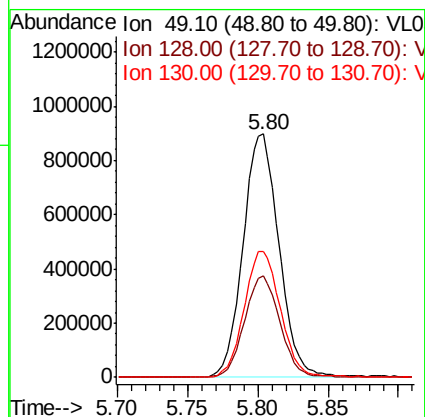
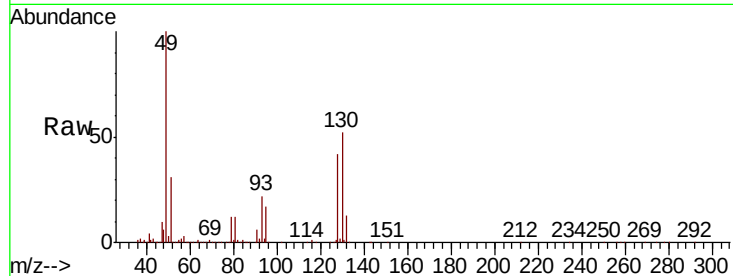
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.80 min Scan# 1467
 Delta R.T. -0.01 min
 Lab File: VL032466.D
 Acq: 5 Sep 2018 20:49

Instrument :
 MSVOA_L
 ClientSampled :
 VP-01

Tot Ion: 49 Resp: 1601694
 Ion Ratio Lower Upper
 49 100
 128 41.5 20.7 62.1
 130 52.4 26.6 79.7

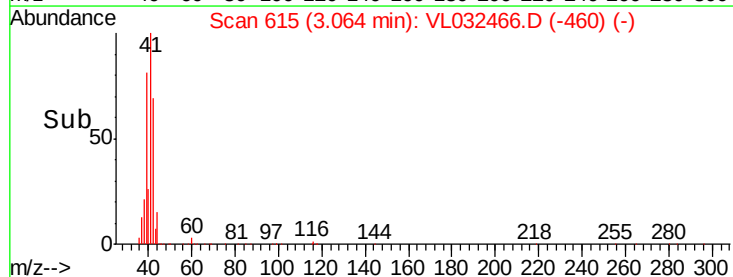
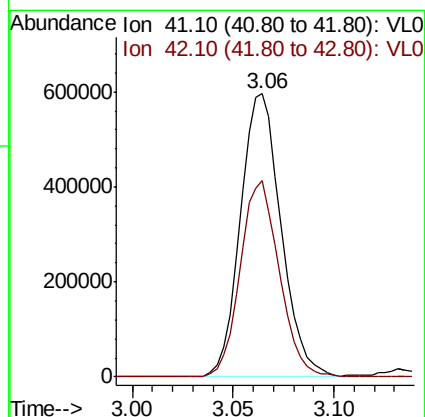
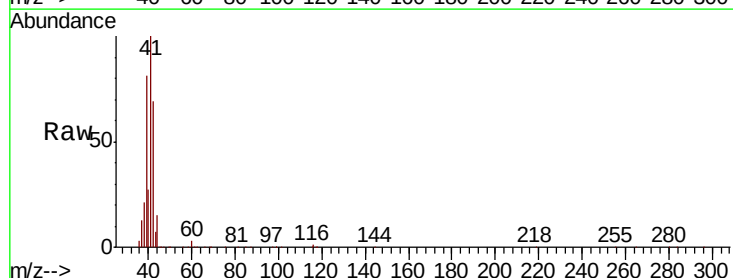
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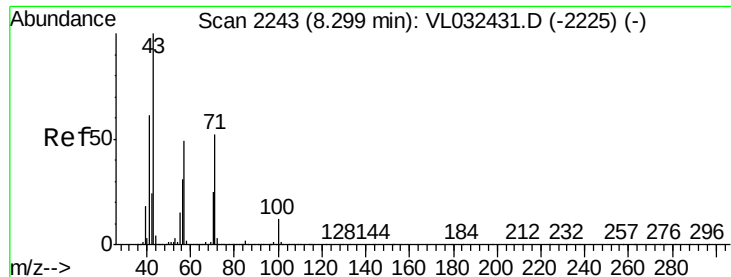
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#9
 Propene
 Concen: 14.44 ppbv
 RT: 3.06 min Scan# 615
 Delta R.T. -0.00 min
 Lab File: VL032466.D
 Acq: 5 Sep 2018 20:49

Tgt Ion: 41 Resp: 844647
 Ion Ratio Lower Upper
 41 100
 42 66.9 56.6 84.8





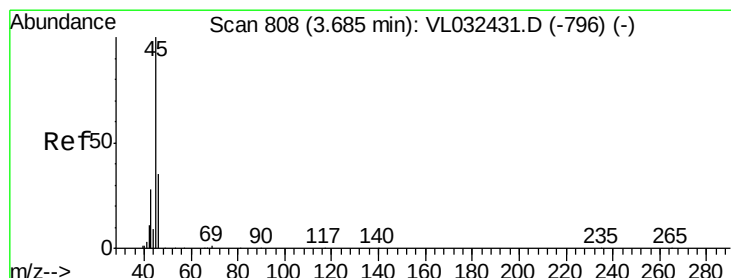
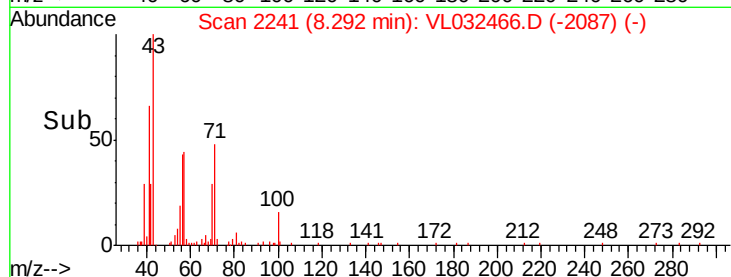
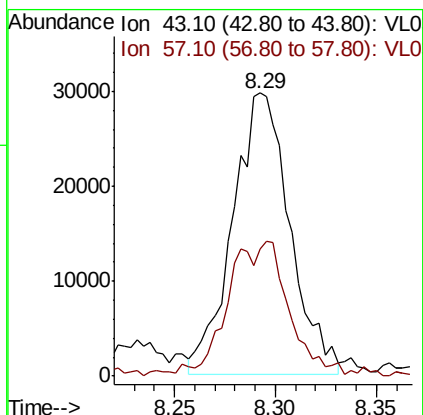
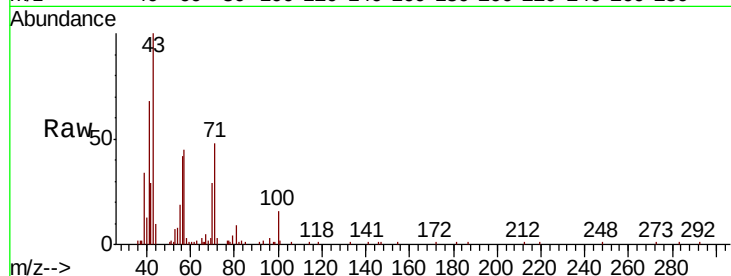
#10
Heptane
Concen: 0.28 ppbv
RT: 8.29 min Scan# 2241
Delta R.T. -0.01 min
Lab File: VL032466.D
Acq: 5 Sep 2018 20:49

Instrument :
MSVOA_L
ClientSampled :
VP-01

Tot Ion: 43 Resp: 59063
Ion Ratio Lower Upper
43 100
57 53.1 39.6 59.4

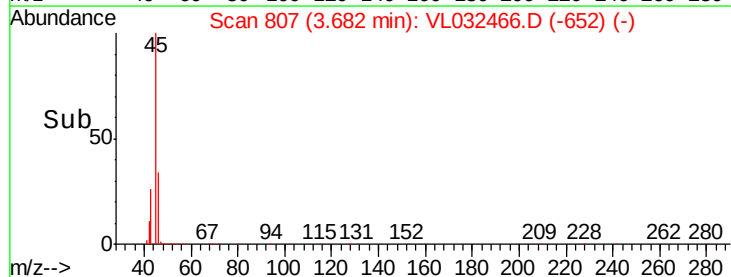
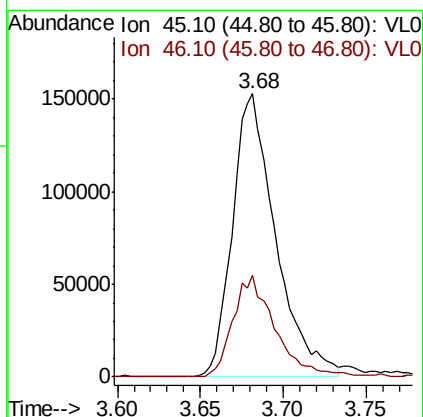
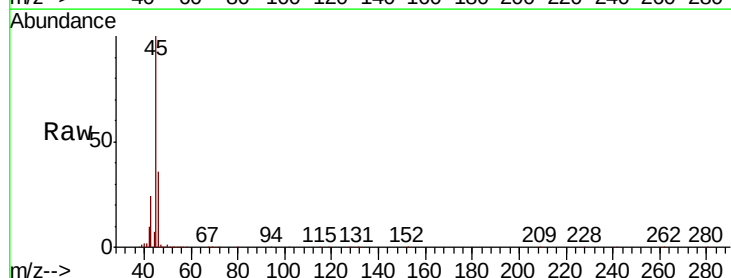
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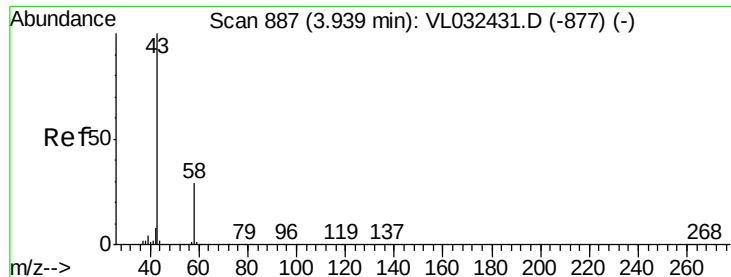
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#13
Ethanol
Concen: 15.21 ppbv
RT: 3.68 min Scan# 807
Delta R.T. -0.00 min
Lab File: VL032466.D
Acq: 5 Sep 2018 20:49

Tgt Ion: 45 Resp: 277296
Ion Ratio Lower Upper
45 100
46 35.3 14.2 56.8





#15

Acetone

Concen: 15.32 ppbv

RT: 3.93 min Scan# 884

Delta R.T. -0.01 min

Lab File: VL032466.D

Acq: 5 Sep 2018 20:49

Instrument :

MSVOA_L

ClientSampled :

VP-01

Tot Ion: 43 Resp: 2209043

Ion Ratio Lower Upper

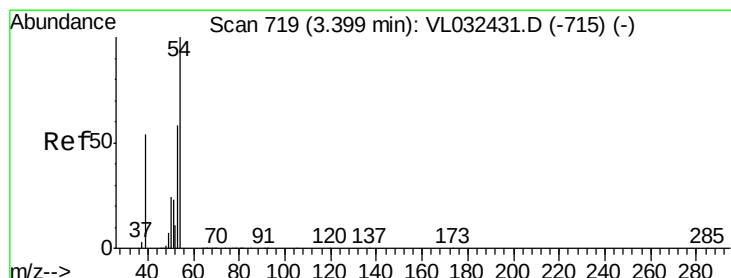
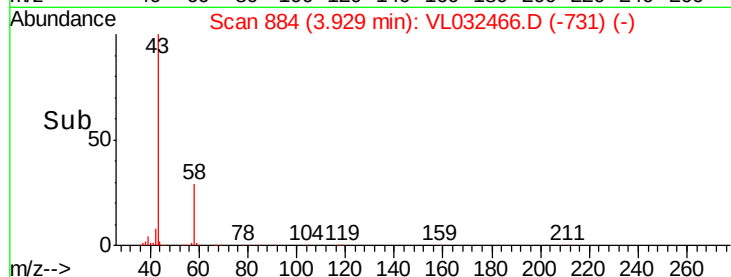
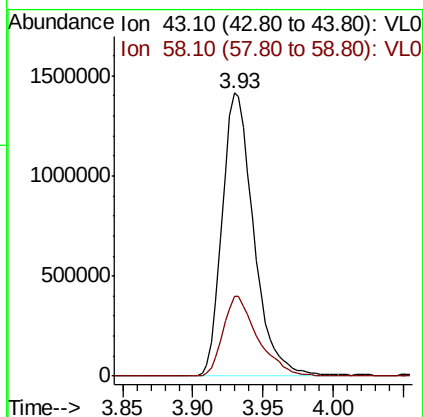
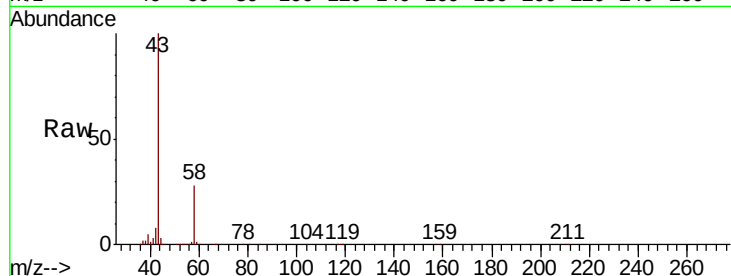
43 100

58 31.5 22.6 33.8

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#16

1,3-Butadiene

Concen: 2.56 ppbv m

RT: 3.38 min Scan# 713

Delta R.T. -0.02 min

Lab File: VL032466.D

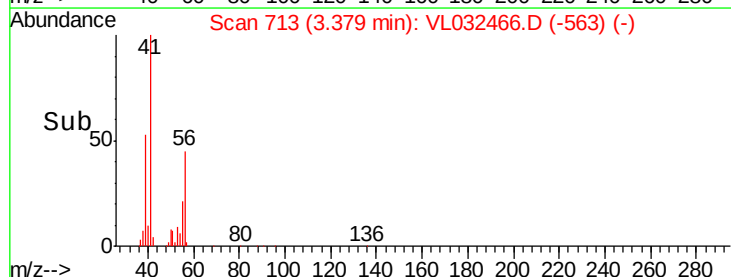
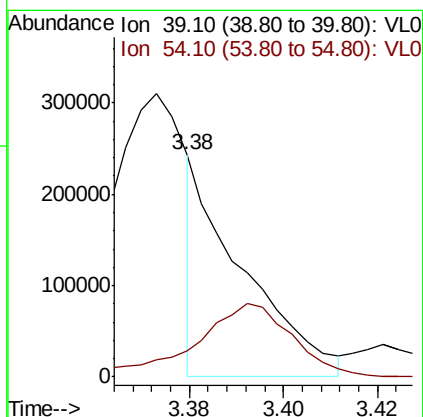
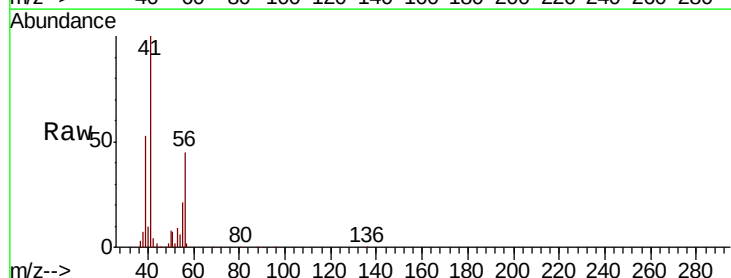
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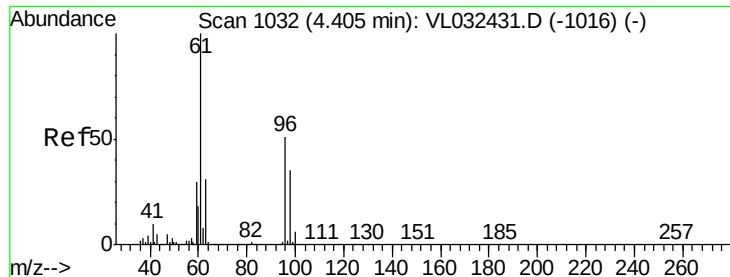
Tgt Ion: 39 Resp: 173869

Ion Ratio Lower Upper

39 100

54 67.9 80.8 121.2#





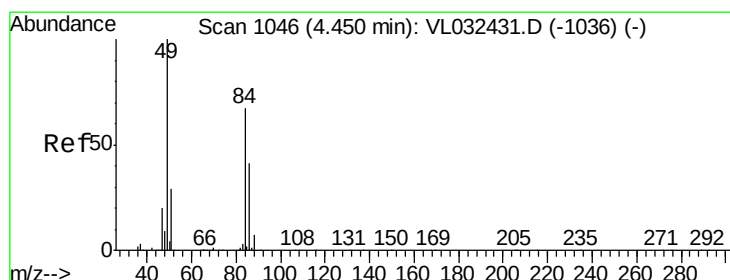
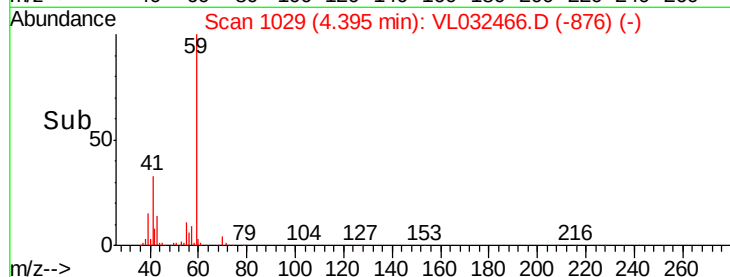
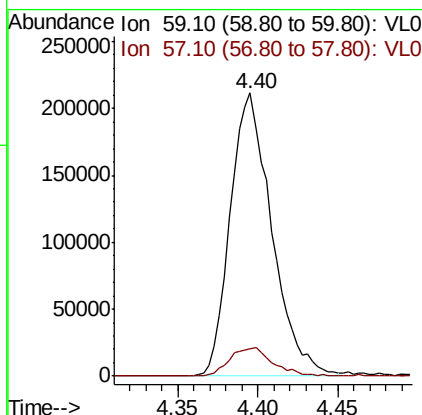
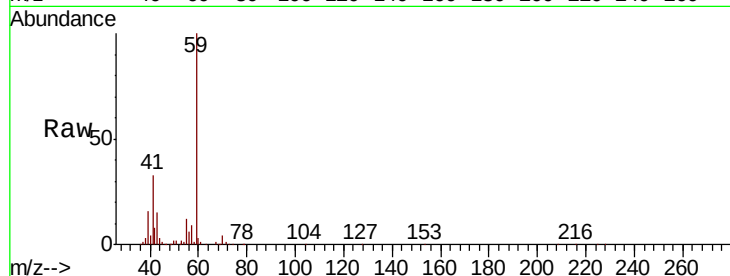
#17
 tert-Butyl alcohol
 Concen: 16.85 ppbv
 RT: 4.40 min Scan# 1029
 Delta R.T. -0.01 min
 Lab File: VL032466.D
 Acq: 5 Sep 2018 20:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-01

Tot Ion: 59 Resp: 374102
 Ion Ratio Lower Upper
 59 100
 57 11.0 0.0 0.0#

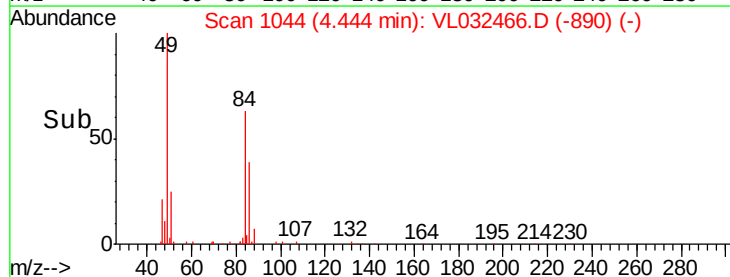
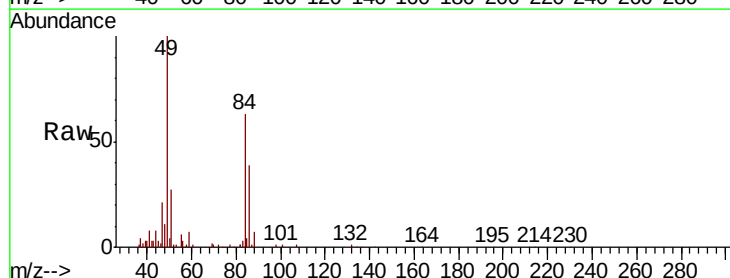
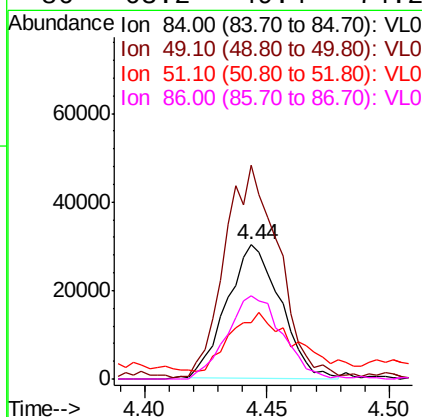
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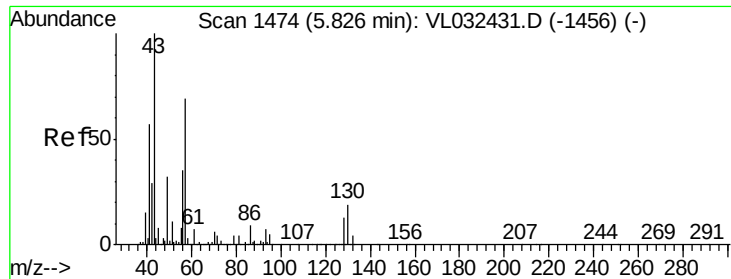
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#20
 Methylene Chloride
 Concen: 0.83 ppbv
 RT: 4.44 min Scan# 1044
 Delta R.T. -0.01 min
 Lab File: VL032466.D
 Acq: 5 Sep 2018 20:49

Tgt Ion: 84 Resp: 45499
 Ion Ratio Lower Upper
 84 100
 49 159.4 119.1 178.7
 51 35.0 35.2 52.8#
 86 63.2 49.4 74.2





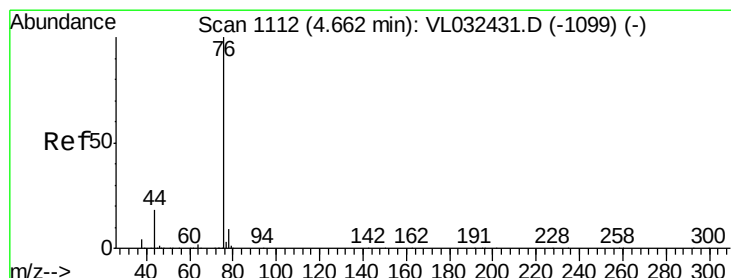
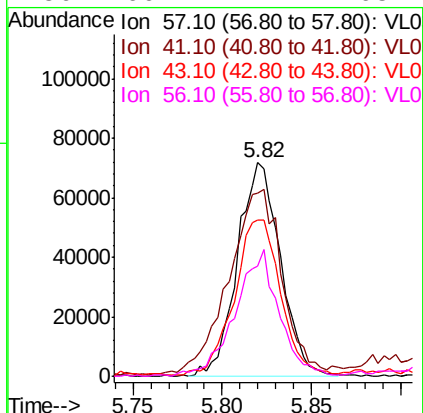
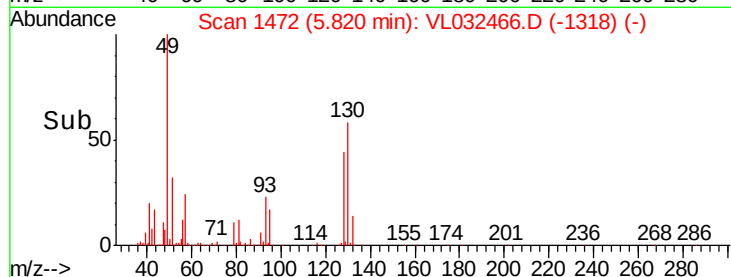
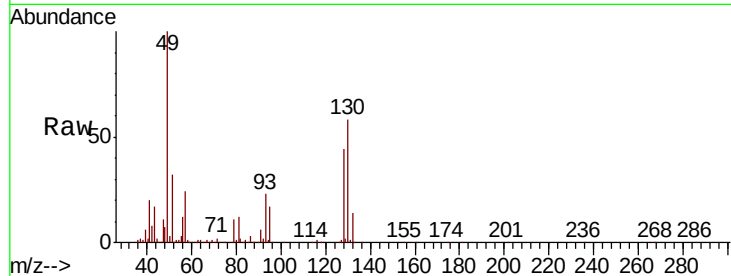
#26
Hexane
Concen: 0.79 ppbv
RT: 5.82 min Scan# 1472
Delta R.T. -0.01 min
Lab File: VL032466.D
Acq: 5 Sep 2018 20:49

Instrument :
MSVOA_L
ClientSampleId :
VP-01

Tot Ion	Ratio	Lower	Upper
57	100		
41	105.7	69.0	103.4#
43	79.9	172.1	258.1#
56	60.2	42.2	63.2

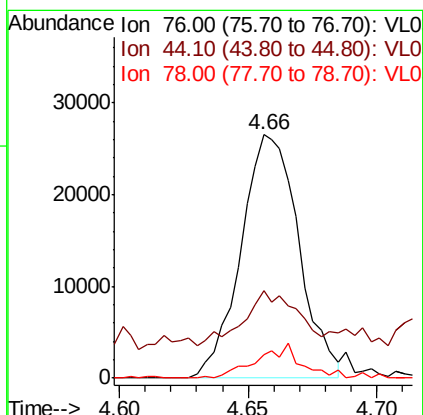
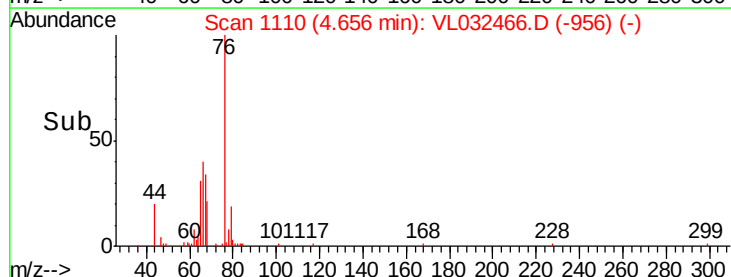
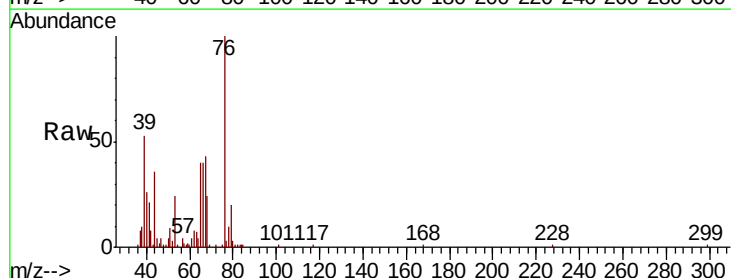
Manual Integrations
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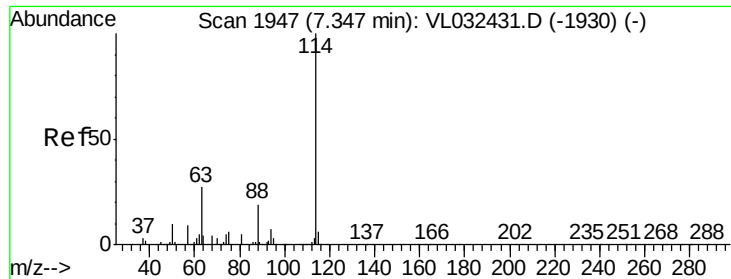
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#27
Carbon Disulfide
Concen: 0.29 ppbv
RT: 4.66 min Scan# 1110
Delta R.T. -0.01 min
Lab File: VL032466.D
Acq: 5 Sep 2018 20:49

Tgt Ion	Ratio	Lower	Upper
76	100		
44	24.9	14.0	21.0#
78	11.1	7.5	11.3





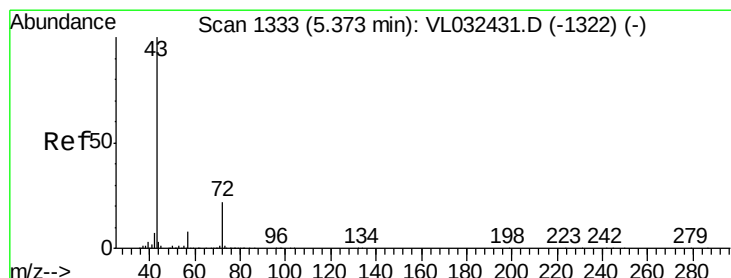
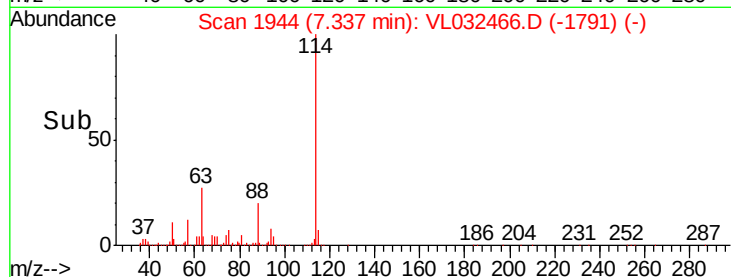
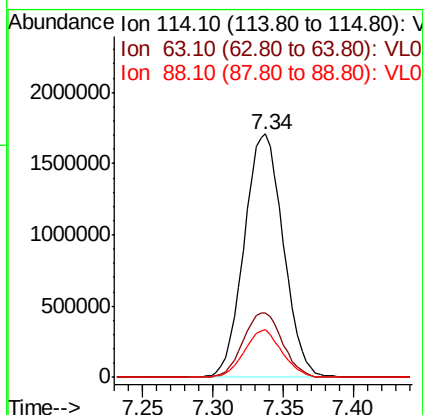
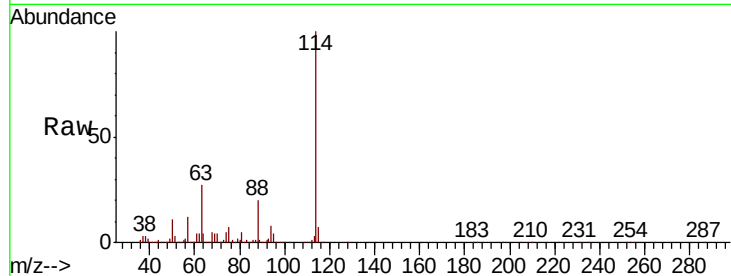
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 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.34 min Scan# 1944
 Delta R.T. -0.01 min
 Lab File: VL032466.D
 Acq: 5 Sep 2018 20:49

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-01

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.8	22.2	33.4
88	18.8	15.0	22.4

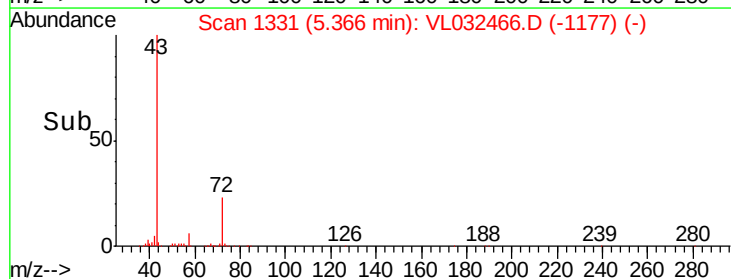
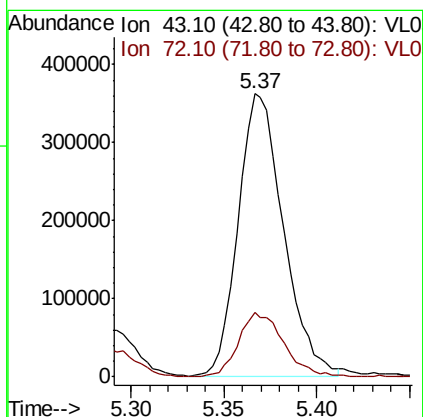
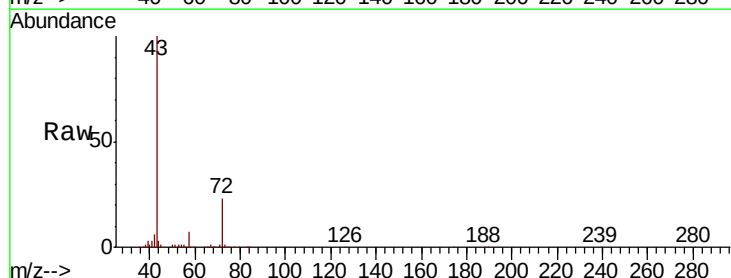
Manual Integrations
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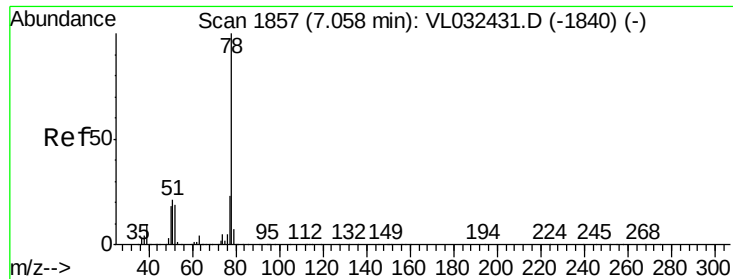
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#34
 2-Butanone
 Concen: 2.77 ppbv
 RT: 5.37 min Scan# 1331
 Delta R.T. -0.01 min
 Lab File: VL032466.D
 Acq: 5 Sep 2018 20:49

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.3	17.8	26.6





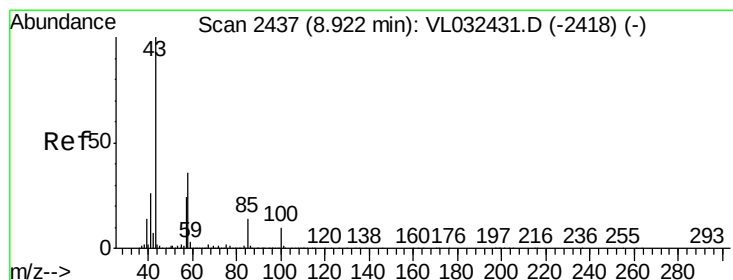
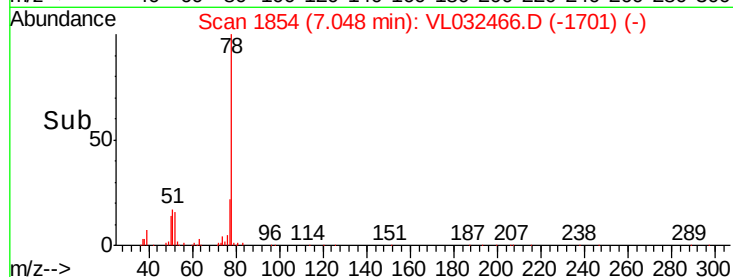
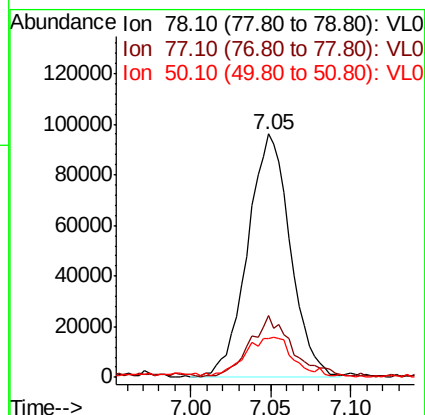
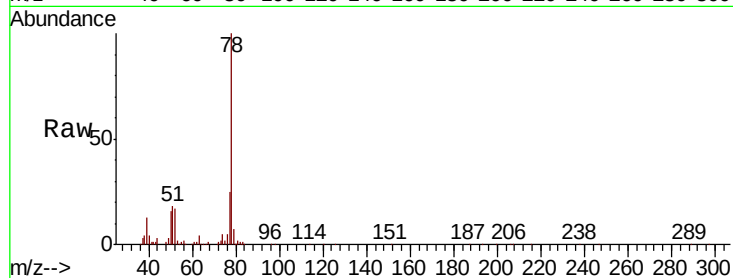
#36
Benzene
Concen: 0.62 ppbv
RT: 7.05 min Scan# 1854
Delta R.T. -0.01 min
Lab File: VL032466.D
Acq: 5 Sep 2018 20:49

Instrument :
MSVOA_L
ClientSampled :
VP-01

Tot Ion	Ratio	Lower	Upper
78	100		
77	24.2	18.4	27.6
50	14.8	14.4	21.6

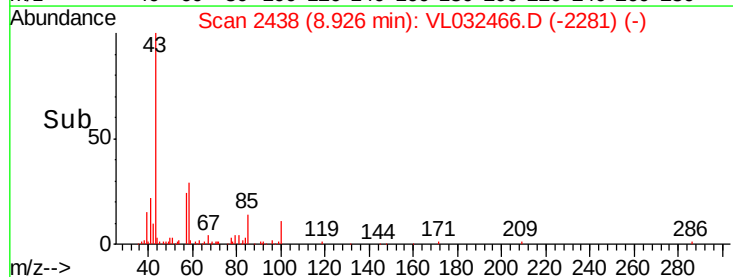
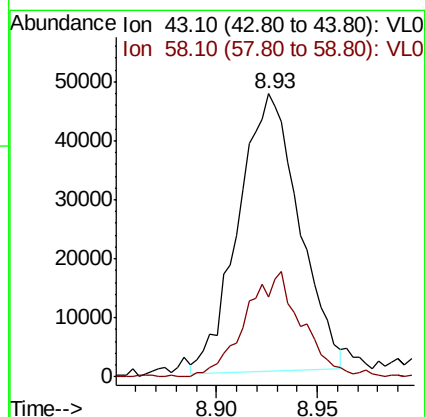
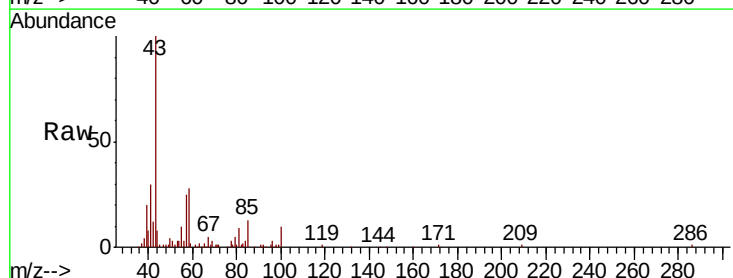
Manual Integrations
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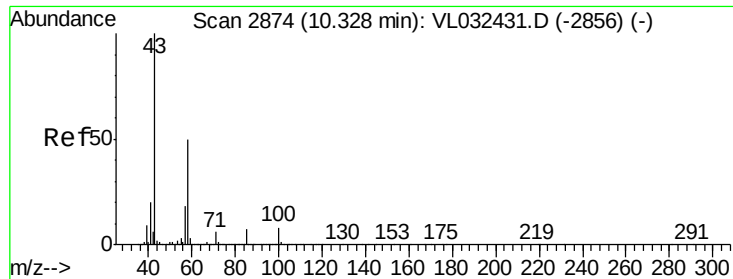
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#50
4-Methyl-2-Pentanone
Concen: 0.30 ppbv
RT: 8.93 min Scan# 2438
Delta R.T. 0.00 min
Lab File: VL032466.D
Acq: 5 Sep 2018 20:49

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.2	29.0	43.4





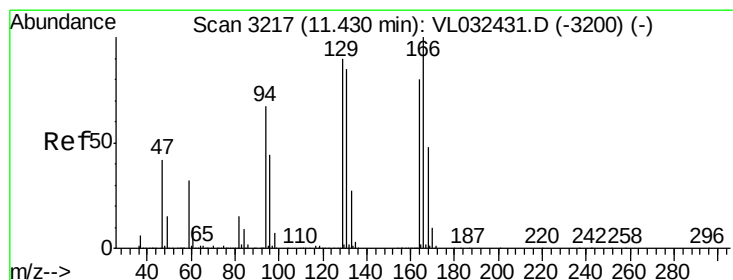
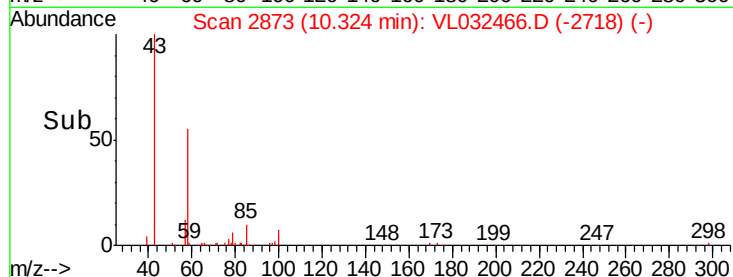
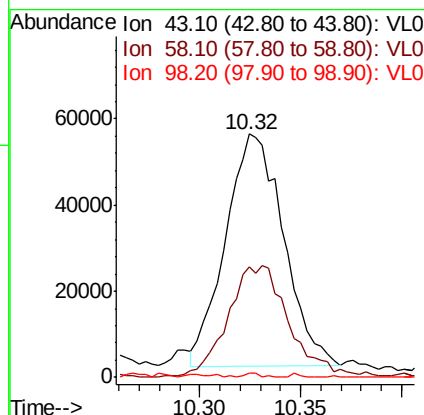
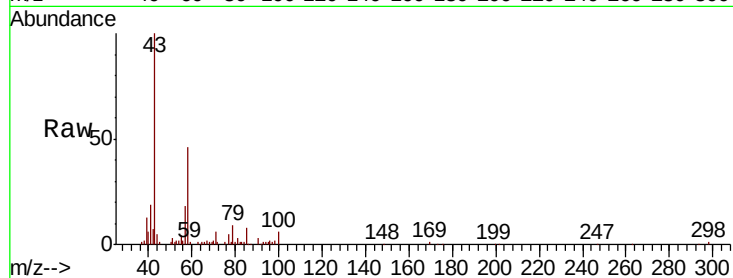
#51
2-Hexanone
Concen: 0.51 ppbv
RT: 10.32 min Scan# 2873
Delta R.T. -0.00 min
Lab File: VL032466.D
Acq: 5 Sep 2018 20:49

Instrument :
MSVOA_L
ClientSampled :
VP-01

Tot Ion	Ratio	Lower	Upper
43	100		
58	51.8	39.2	58.8
98	0.5	0.4	0.6

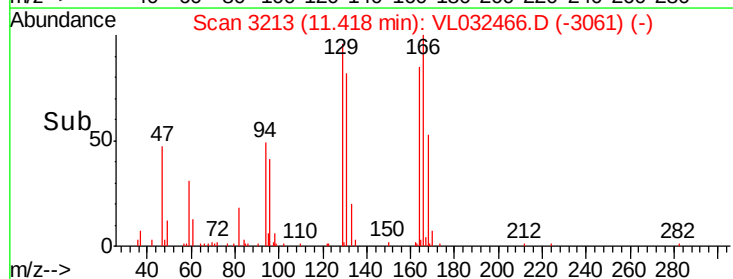
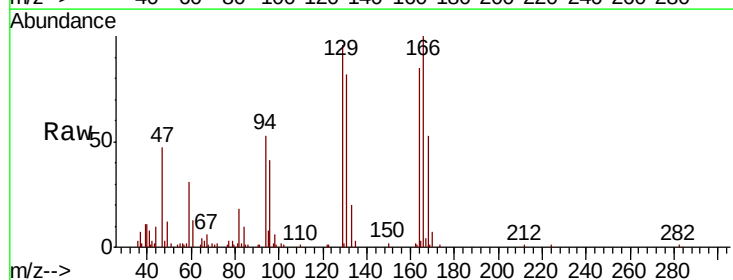
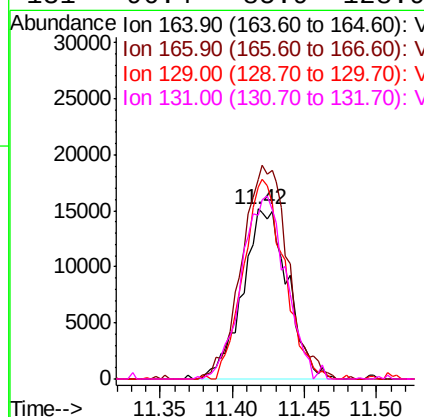
Manual Integrations
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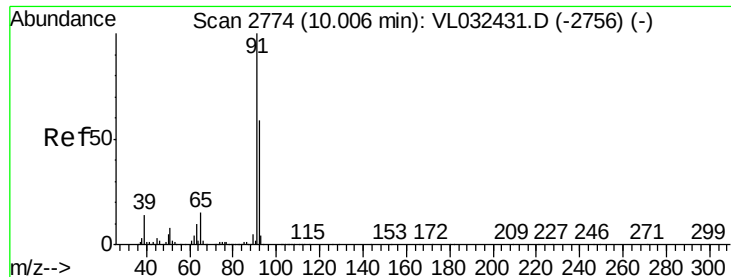
MMDadoda
9/7/2018 10:46:01 AM



#52
Tetrachloroethene
Concen: 0.37 ppbv m
RT: 11.42 min Scan# 3213
Delta R.T. -0.01 min
Lab File: VL032466.D
Acq: 5 Sep 2018 20:49

Tgt Ion	Ratio	Lower	Upper
164	100		
166	117.7	100.6	150.8
129	112.6	89.9	134.9
131	96.4	85.9	128.9





#53

Toluene

Concen: 1.68 ppbv

RT: 9.99 min Scan# 2770

Delta R.T. -0.01 min

Lab File: VL032466.D

Acq: 5 Sep 2018 20:49

Instrument :

MSVOA_L

ClientSampled :

VP-01

Tot Ion: 91 Resp: 496011

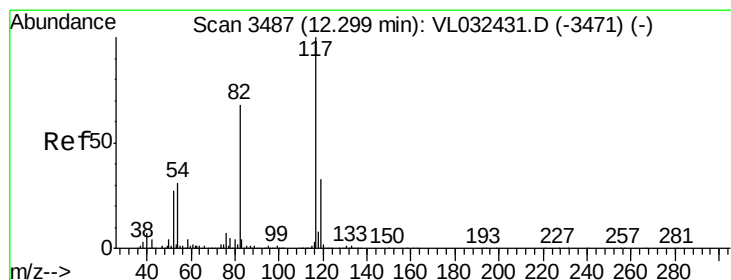
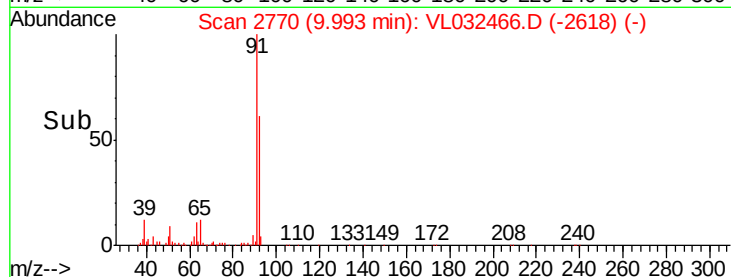
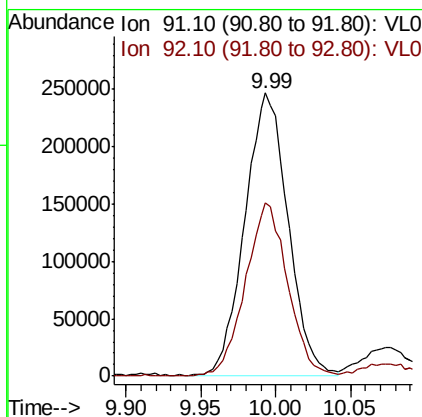
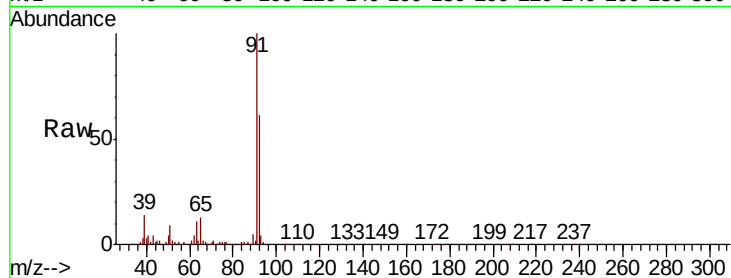
Ion Ratio Lower Upper

91 100

92 59.5 48.1 72.1

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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.29 min Scan# 3484

Delta R.T. -0.01 min

Lab File: VL032466.D

Acq: 5 Sep 2018 20:49

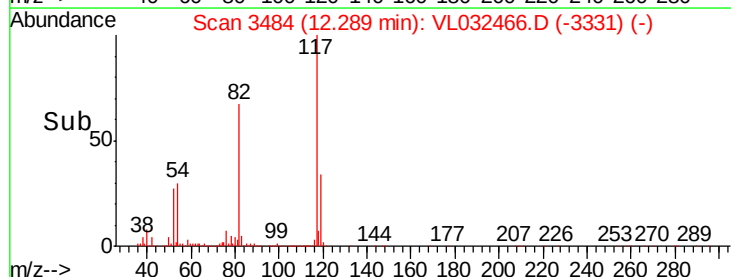
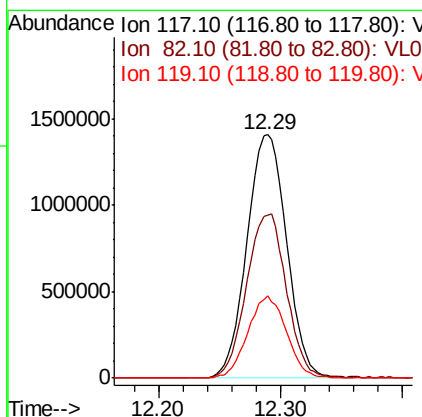
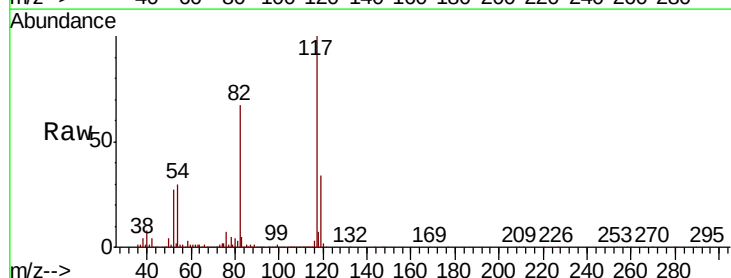
Tgt Ion: 117 Resp: 3172780

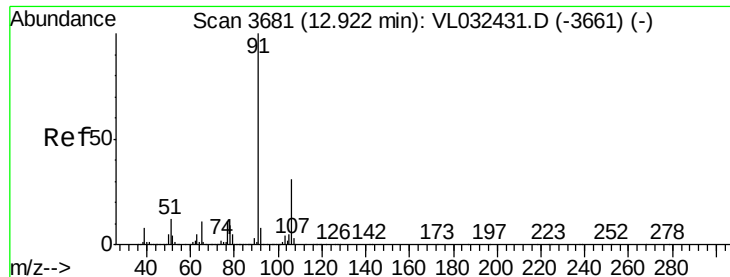
Ion Ratio Lower Upper

117 100

82 67.4 53.0 79.6

119 32.8 45.9 68.9#





#58

Ethyl Benzene

Concen: 0.46 ppbv

RT: 12.91 min Scan# 3677

Delta R.T. -0.01 min

Lab File: VL032466.D

Acq: 5 Sep 2018 20:49

Instrument :

MSVOA_L

ClientSampleId :

VP-01

Tot Ion: 91 Resp: 174489

Ion Ratio Lower Upper

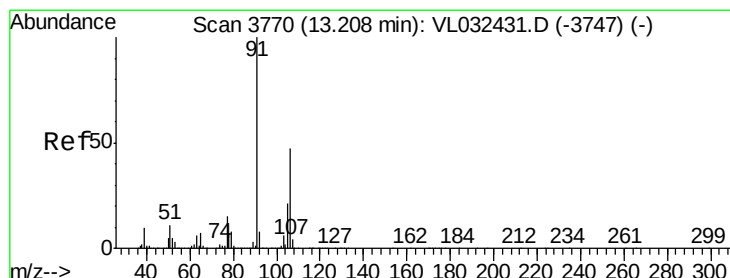
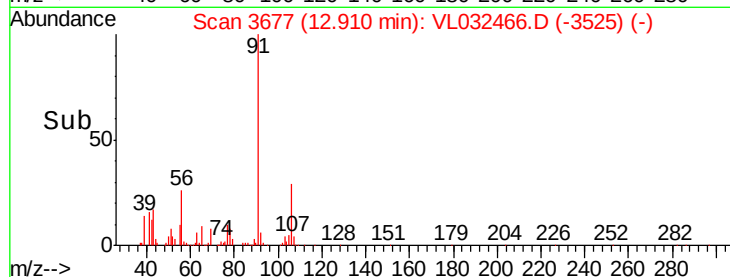
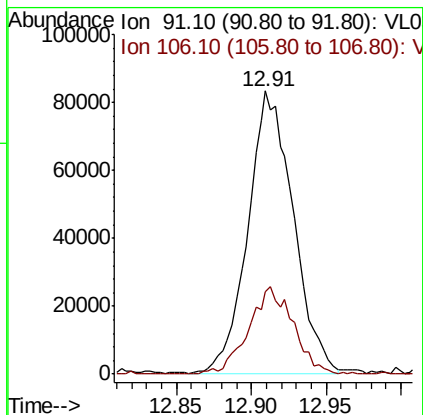
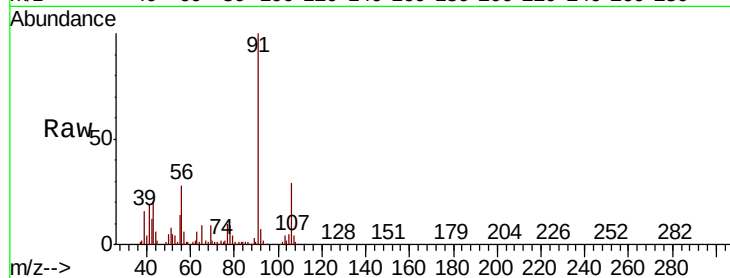
91 100

106 29.2 24.8 37.2

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#59

m/p-Xylene

Concen: 1.56 ppbv m

RT: 13.17 min Scan# 3758

Delta R.T. -0.04 min

Lab File: VL032466.D

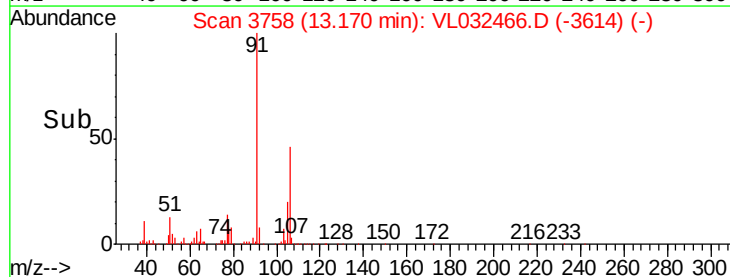
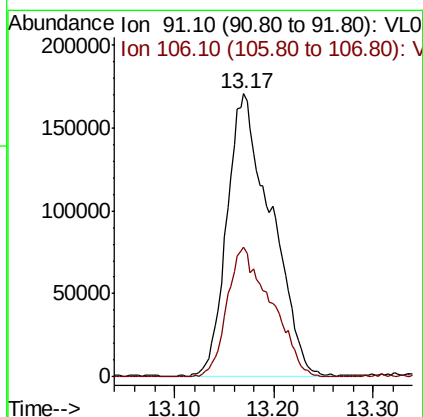
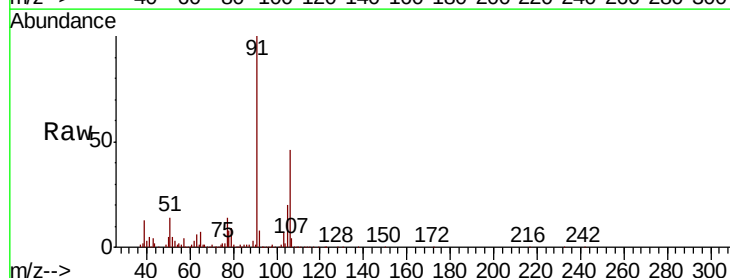
Acq: 5 Sep 2018 20:49

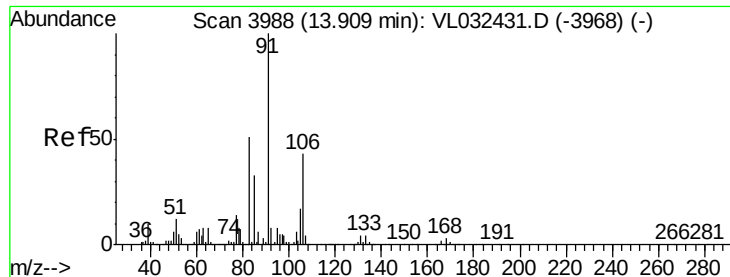
Tgt Ion: 91 Resp: 526801

Ion Ratio Lower Upper

91 100

106 0.0 36.6 55.0#





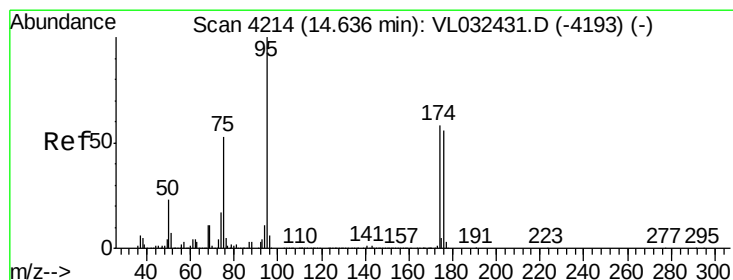
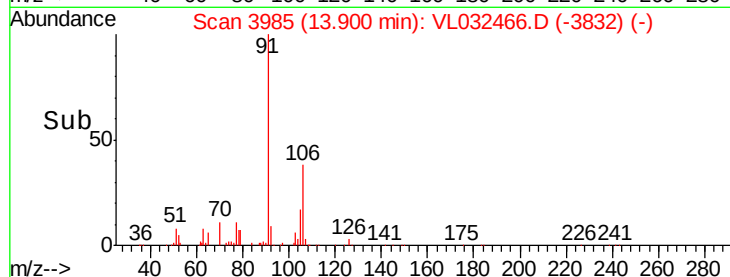
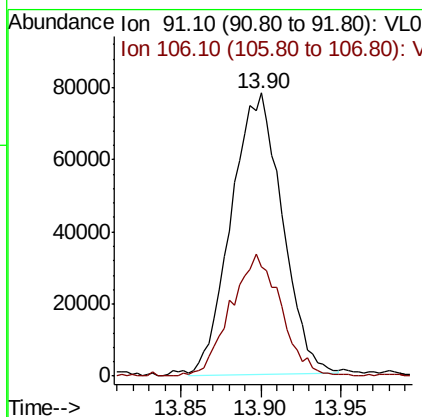
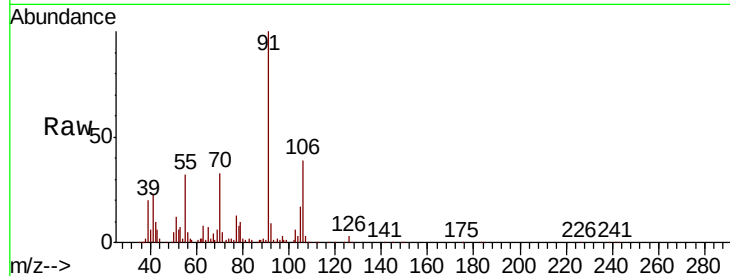
#60
o-Xylene
Concen: 0.51 ppbv
RT: 13.90 min Scan# 3985
Delta R.T. -0.01 min
Lab File: VL032466.D
Acq: 5 Sep 2018 20:49

Instrument :
MSVOA_L
ClientSampled :
VP-01

Tot Ion: 91 Resp: 170031
Ion Ratio Lower Upper
91 100
106 42.9 21.9 65.7

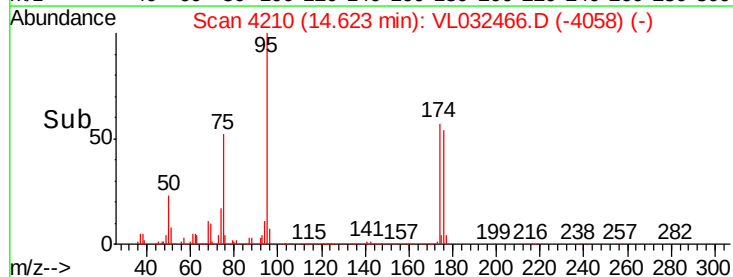
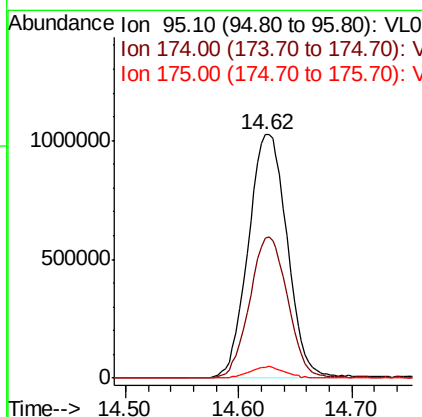
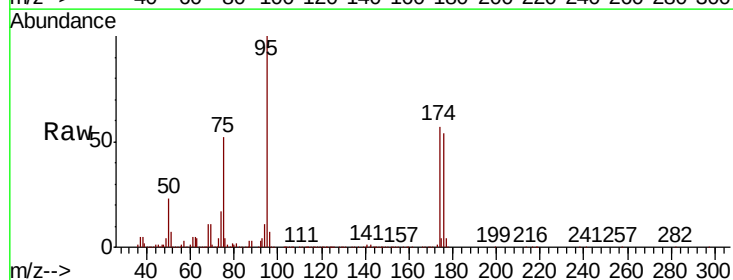
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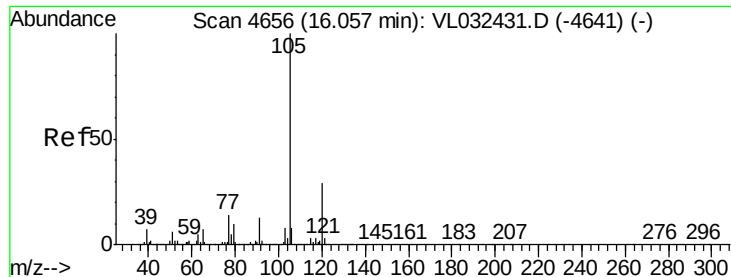
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.38 ppbv
RT: 14.62 min Scan# 4210
Delta R.T. -0.01 min
Lab File: VL032466.D
Acq: 5 Sep 2018 20:49

Tgt Ion: 95 Resp: 2444115
Ion Ratio Lower Upper
95 100
174 57.2 46.3 69.5
175 4.3 3.4 5.0





#72

4-Ethyltoluene

Concen: 0.30 ppbv m

RT: 16.05 min Scan# 4654

Delta R.T. -0.01 min

Lab File: VL032466.D

Acq: 5 Sep 2018 20:49

Instrument :

MSVOA_L

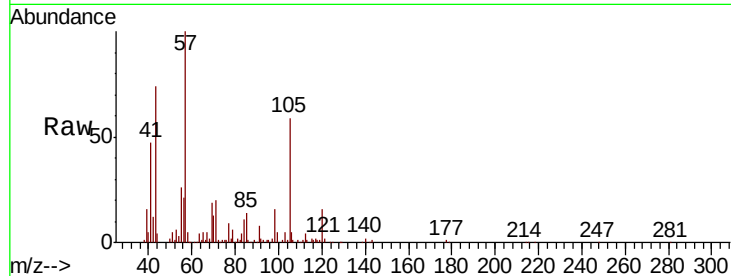
ClientSampled :

VP-01

Tot Ion:	105	Resp:	109937
Ion Ratio	Lower	Upper	
105	100		
120	0.0	23.5	35.3#
91	12.7	10.2	15.2
77	14.6	11.1	16.7

Manual Integrations
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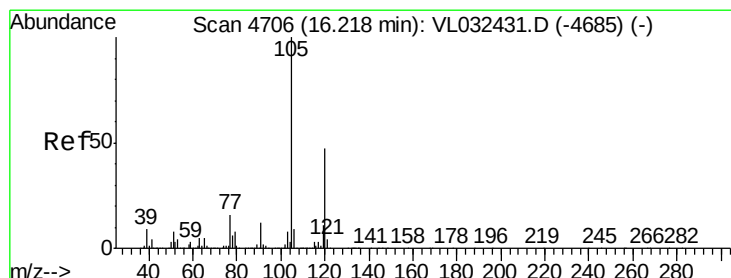
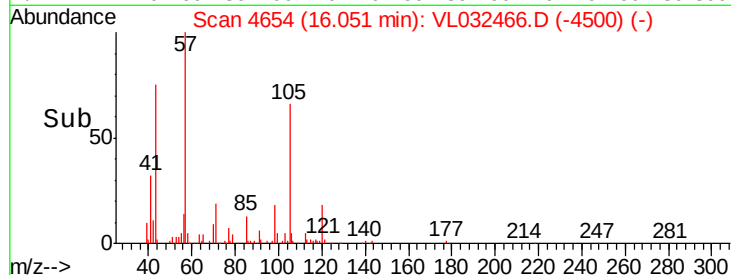
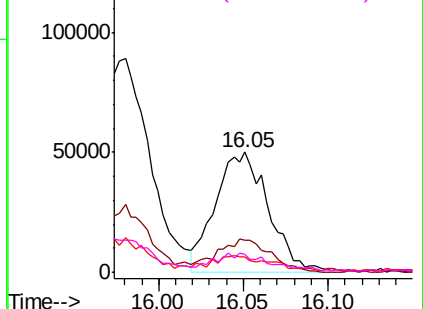


Abundance Ion 105.10 (104.80 to 105.80): V

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: 0.16 ppbv m

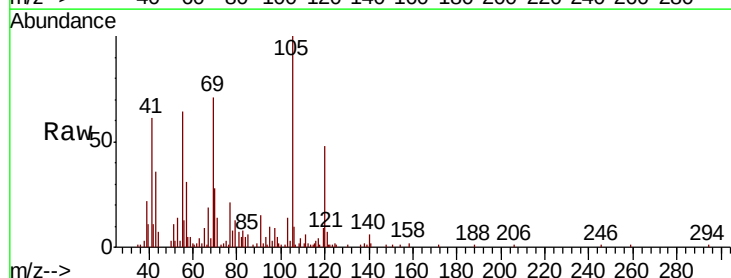
RT: 16.21 min Scan# 4704

Delta R.T. -0.01 min

Lab File: VL032466.D

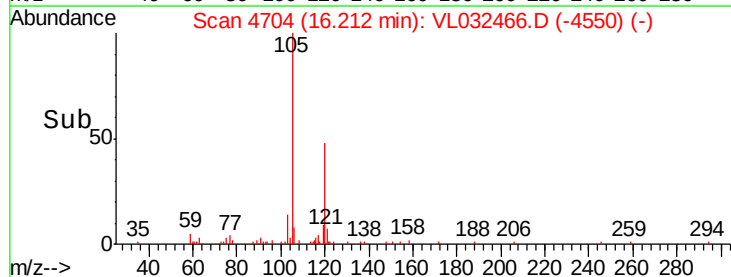
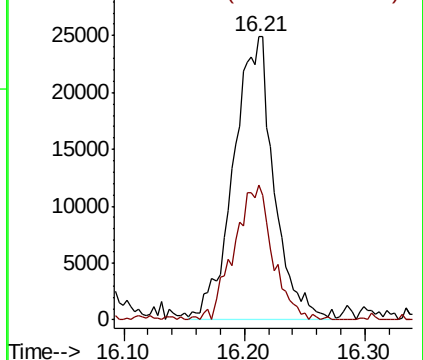
Acq: 5 Sep 2018 20:49

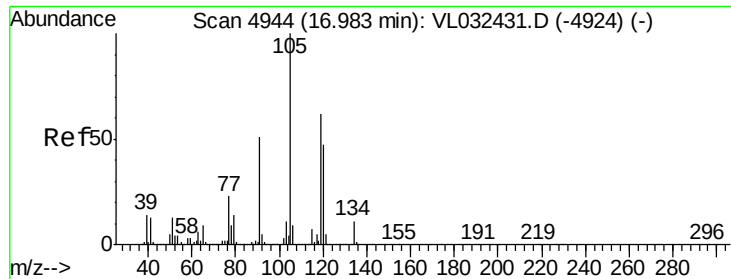
Tgt Ion:	105	Resp:	58479
Ion Ratio	Lower	Upper	
105	100		
120	47.5	37.9	56.9



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: 0.61 ppbv m

RT: 16.98 min Scan# 4943

Delta R.T. -0.00 min

Lab File: VL032466.D

Acq: 5 Sep 2018 20:49

Instrument :

MSVOA_L

ClientSampleId :

VP-01

Tot Ion:	105	Resp:	243434
Ion Ratio		Lower	Upper
105	100		
120	40.9	37.8	56.8
91	11.0	41.4	62.0#
77	12.4	18.6	28.0#

Manual Integrations
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