

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL070218\
 Data File : VL032194.D
 Acq On : 2 Jul 2018 23:06
 Operator : SY/AP
 Sample : J3753-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

Manual Integrations
 APPROVED

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 7/3/2018 5:17:20 PM

Quant Time: Jul 03 15:24:54 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun 2
 QLast Update : Fri Jun 29 22:27:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.85	49	1453873	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.38	114	3595811	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.34	117	3330821	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.67	95	2508431	9.85	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.50%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
7) Chloroethane	3.66	64	4872	0.14	ppbv	# 78
9) Propene	3.09	41	20029	0.24	ppbv	97
10) Heptane	8.34	43	25048	0.10	ppbv	99
12) 1,1,2-Trichlorotrifluoroet	4.63	101	84652	0.61	ppbv	94
13) Ethanol	3.72	45	1526928	60.84	ppbv	98
15) Acetone	3.97	43	852843	5.02	ppbv	99
17) tert-Butyl alcohol	4.44	59	128515	1.19	ppbv	96
18) 1,1-Dichloroethene	4.42	96	17356	0.26	ppbv	97
19) Isopropyl Alcohol	4.10	45	875705m	6.20	ppbv	
20) Methylene Chloride	4.48	84	18771m	0.30	ppbv	
24) 1,1-Dichloroethane	5.17	63	312260	1.58	ppbv	97
26) Hexane	5.86	57	33984	0.21	ppbv	# 69
32) 1,1,1-Trichloroethane	6.71	97	3390576	13.72	ppbv	99
34) 2-Butanone	5.41	43	148346	0.65	ppbv	99
44) 2,2,4-Trimethylpentane	8.08	57	159230	0.26	ppbv	# 89
53) Toluene	10.04	91	185584	0.44	ppbv	98
59) m/p-Xylene	13.22	91	150248m	0.35	ppbv	
60) o-Xylene	13.95	91	56455m	0.13	ppbv	
69) p-Isopropyltoluene	17.91	119	106390	0.16	ppbv	# 91
74) 1,2,4-Trimethylbenzene	17.02	105	69644m	0.13	ppbv	

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

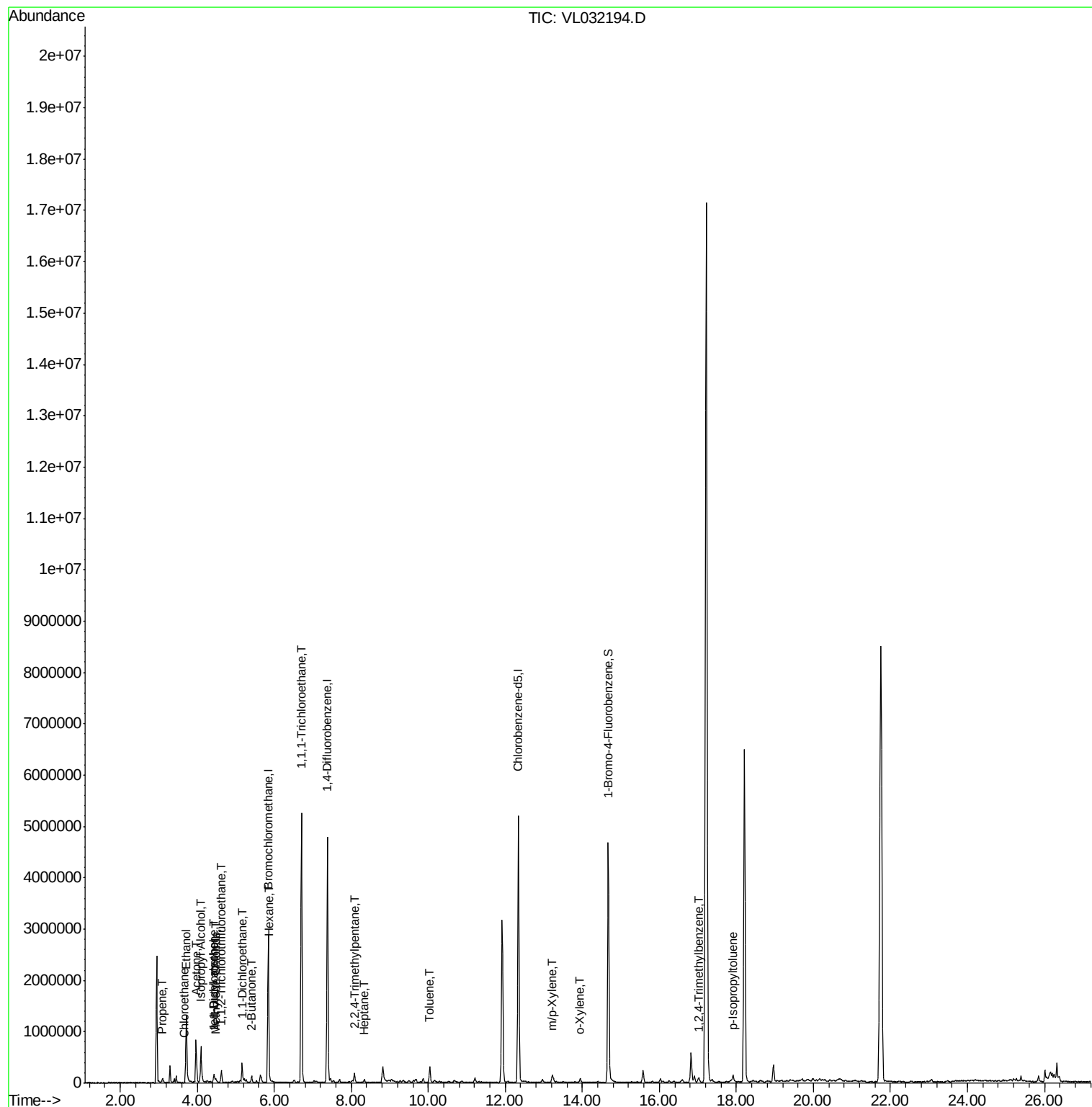
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL070218\
Data File : VL032194.D
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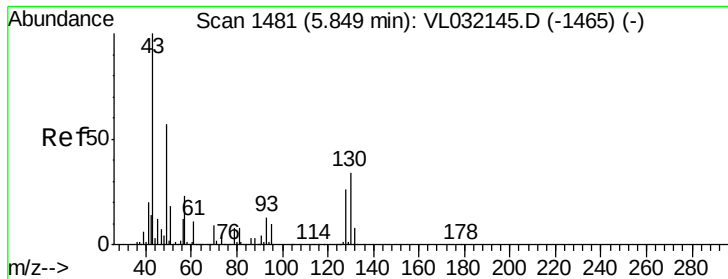
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Jul 03 15:24:54 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL062918AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Jun
QLast Update : Fri Jun 29 22:27:58 2018
Response via : Initial Calibration





#1

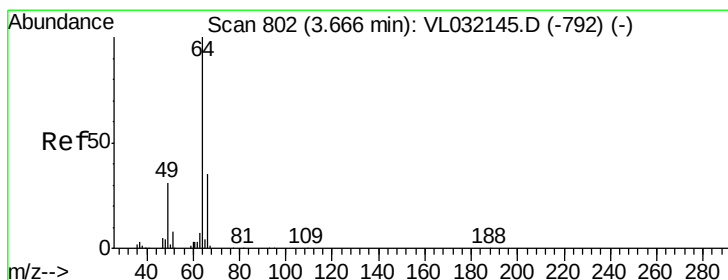
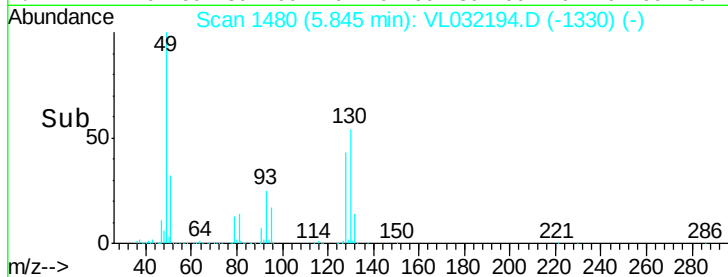
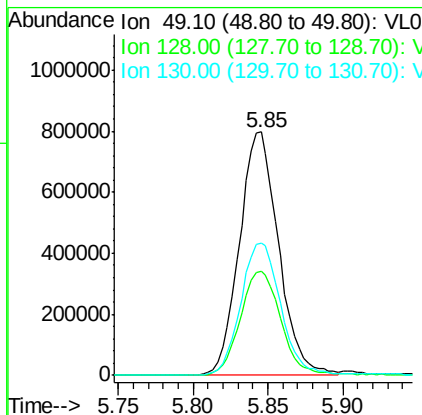
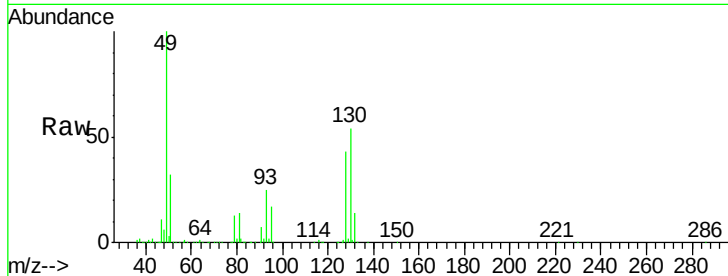
Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.85 min Scan# 1480
 Delta R.T. -0.02 min
 Lab File: VL032194.D
 Acq: 2 Jul 2018 23:06

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

Tot Ion: 49 Resp: 1453873
 Ion Ratio Lower Upper
 49 100
 128 44.6 23.4 70.0
 130 56.3 30.3 90.9

Manual Integrations
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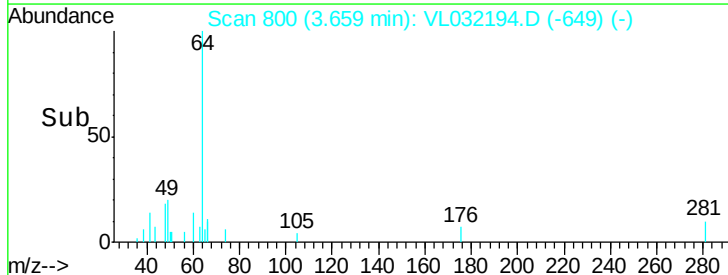
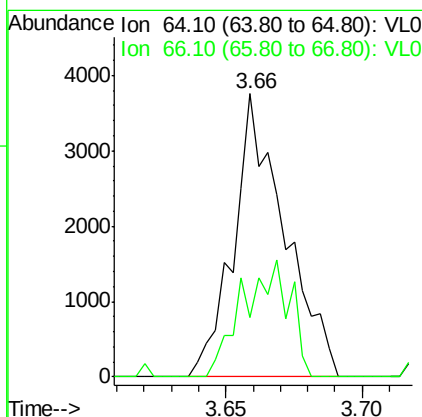
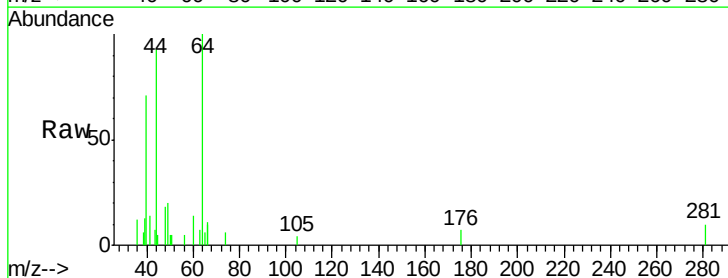
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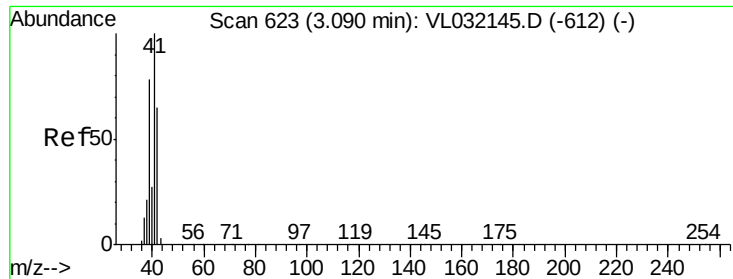


#7

Chloroethane
 Concen: 0.14 ppbv
 RT: 3.66 min Scan# 800
 Delta R.T. -0.01 min
 Lab File: VL032194.D
 Acq: 2 Jul 2018 23:06

Tgt Ion: 64 Resp: 4872
 Ion Ratio Lower Upper
 64 100
 66 21.1 26.9 40.3#





#9

Propene

Concen: 0.24 ppbv

RT: 3.09 min Scan# 624

Delta R.T. -0.01 min

Lab File: VL032194.D

Acq: 2 Jul 2018 23:06

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

Tot Ion: 41 Resp: 20029

Ion Ratio Lower Upper

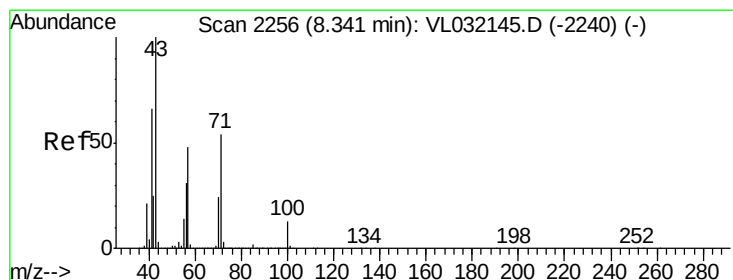
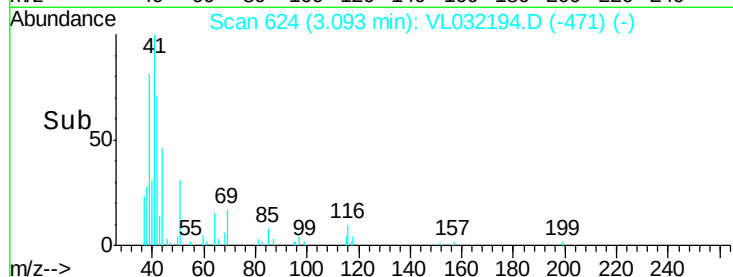
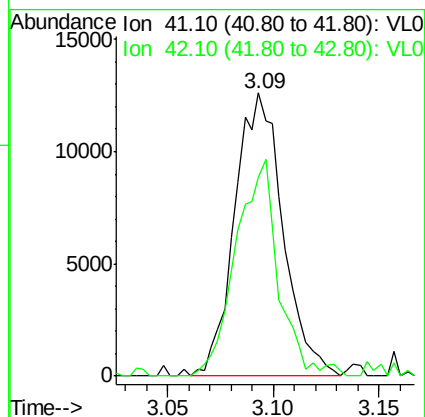
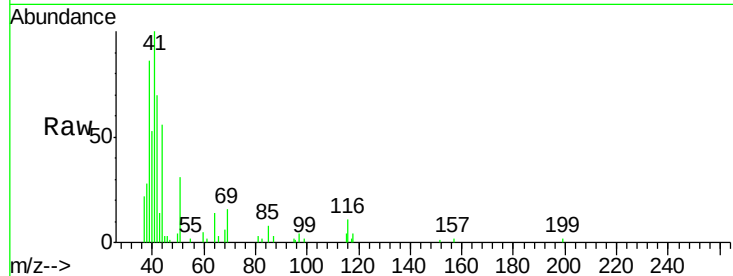
41 100

42 67.6 56.2 84.4

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#10

Heptane

Concen: 0.10 ppbv

RT: 8.34 min Scan# 2256

Delta R.T. -0.02 min

Lab File: VL032194.D

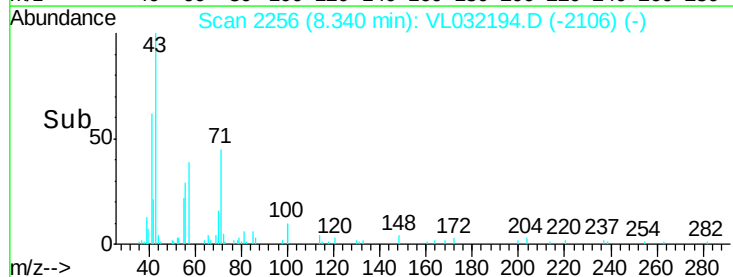
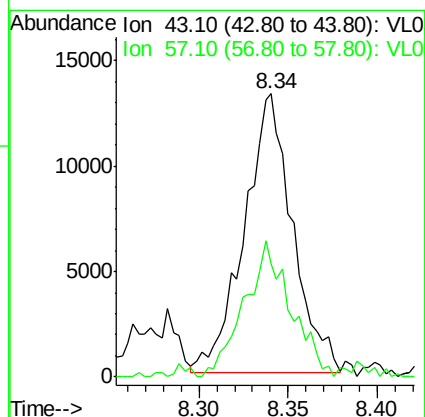
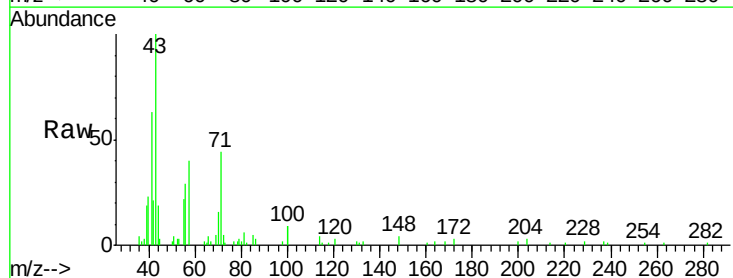
Acq: 2 Jul 2018 23:06

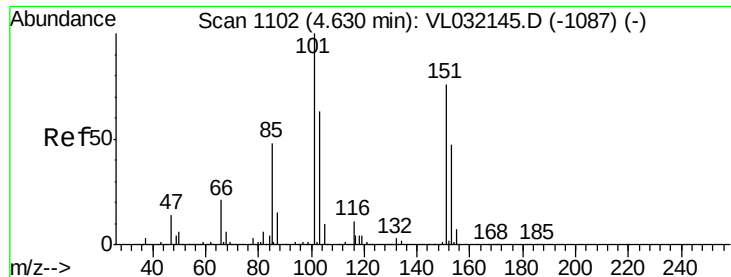
Tgt Ion: 43 Resp: 25048

Ion Ratio Lower Upper

43 100

57 48.9 39.8 59.8





#12

1,1,2-Trichlorotrifluoroethane

Concen: 0.61 ppbv

RT: 4.63 min Scan# 1101

Delta R.T. -0.01 min

Lab File: VL032194.D

Acq: 2 Jul 2018 23:06

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

Tot Ion:101 Resp: 84652

Ion Ratio Lower Upper

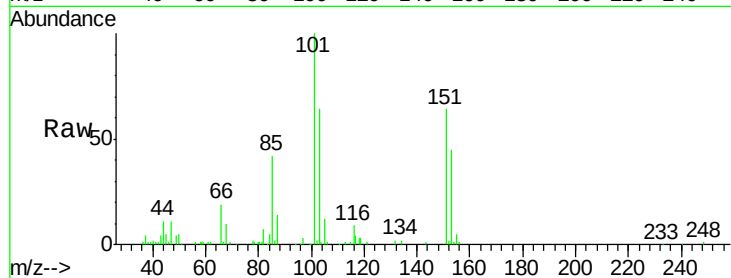
101 100

151 68.7 58.8 88.2

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Abundance Ion 101.00 (100.70 to 101.70): V

Ion 151.00 (150.70 to 151.70): V

60000

50000

40000

30000

20000

10000

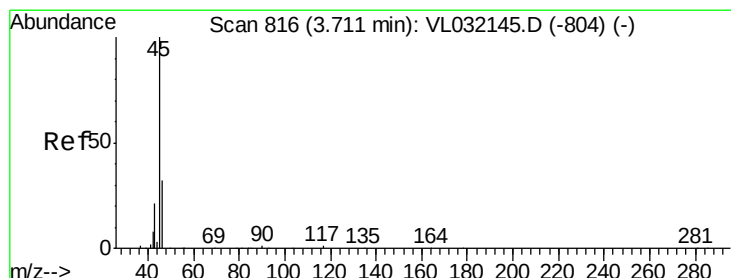
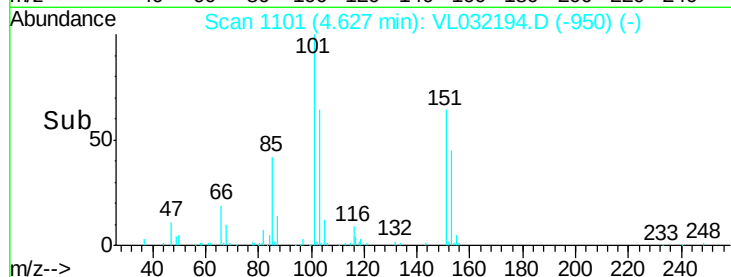
0

4.60

4.63

4.65

Time-->



#13

Ethanol

Concen: 60.84 ppbv

RT: 3.72 min Scan# 818

Delta R.T. -0.01 min

Lab File: VL032194.D

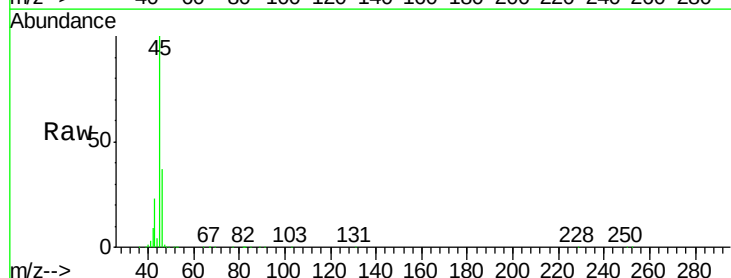
Acq: 2 Jul 2018 23:06

Tgt Ion: 45 Resp: 1526928

Ion Ratio Lower Upper

45 100

46 37.6 14.6 58.4



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 46.10 (45.80 to 46.80): VL0

800000

600000

400000

200000

0

3.65

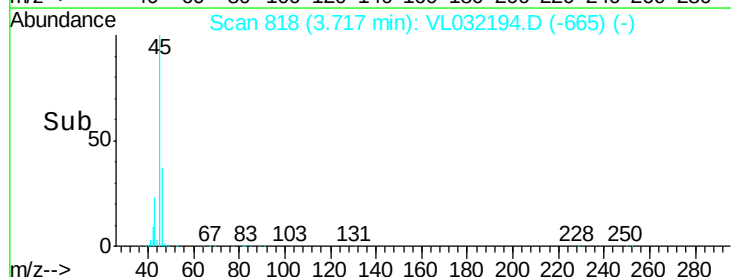
3.70

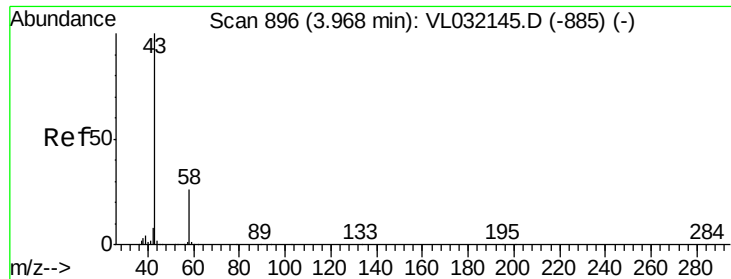
3.72

3.75

3.80

Time-->





#15

Acetone

Concen: 5.02 ppbv

RT: 3.97 min Scan# 896

Delta R.T. -0.01 min

Lab File: VL032194.D

Acq: 2 Jul 2018 23:06

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

Tot Ion: 43 Resp: 852843

Ion Ratio Lower Upper

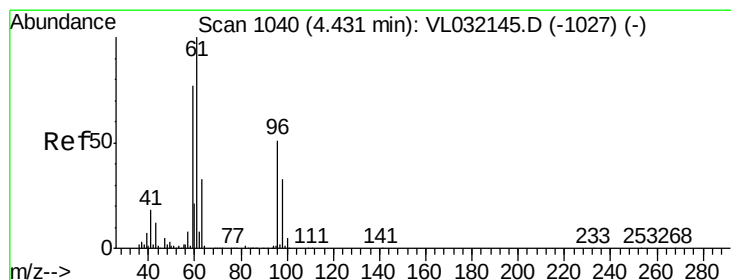
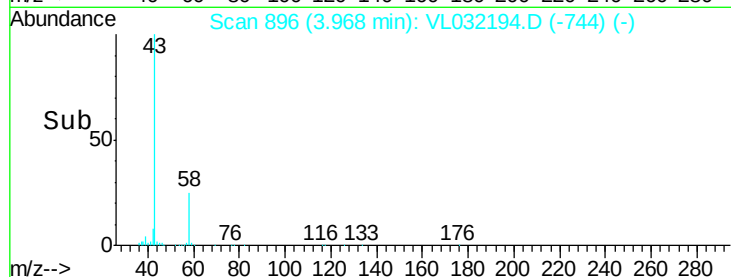
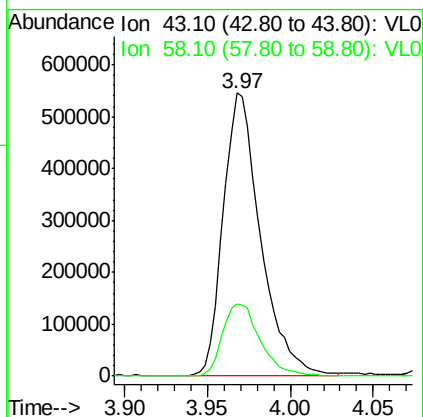
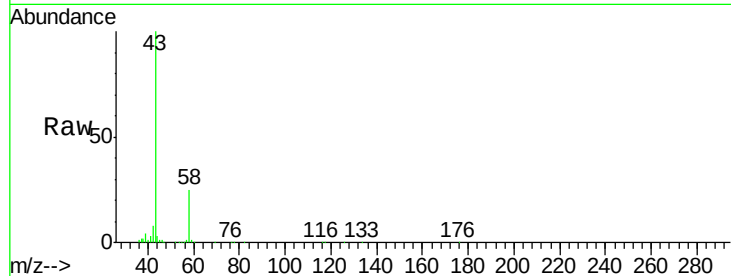
43 100

58 26.1 21.4 32.0

Manual Integrations
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#17

tert-Butyl alcohol

Concen: 1.19 ppbv

RT: 4.44 min Scan# 1044

Delta R.T. 0.01 min

Lab File: VL032194.D

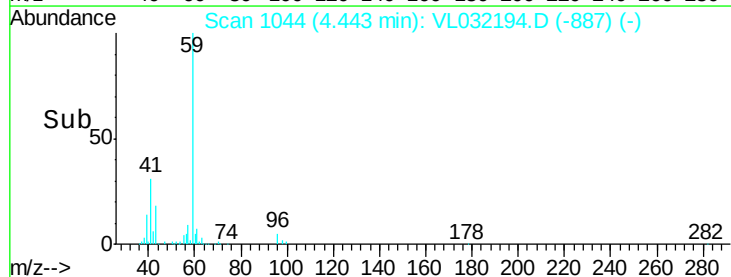
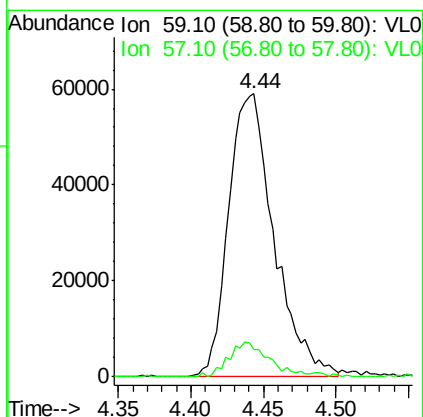
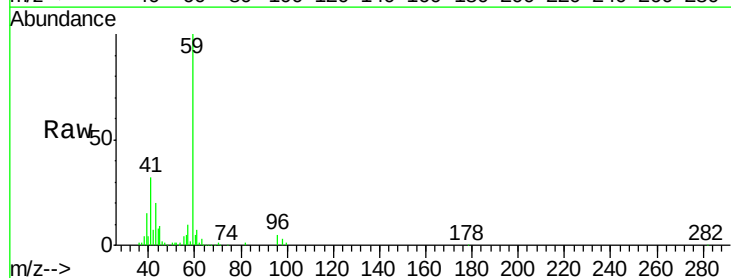
Acq: 2 Jul 2018 23:06

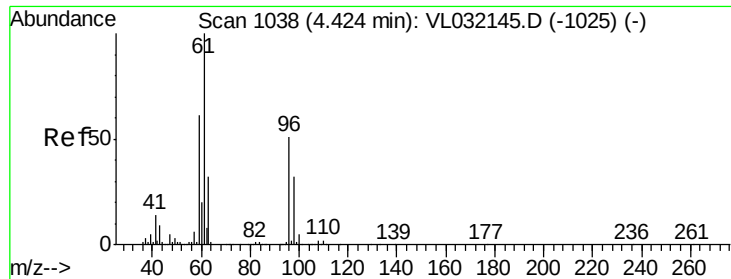
Tgt Ion: 59 Resp: 128515

Ion Ratio Lower Upper

59 100

57 11.6 8.2 12.2





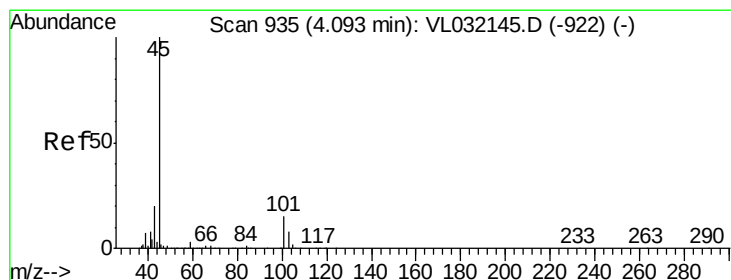
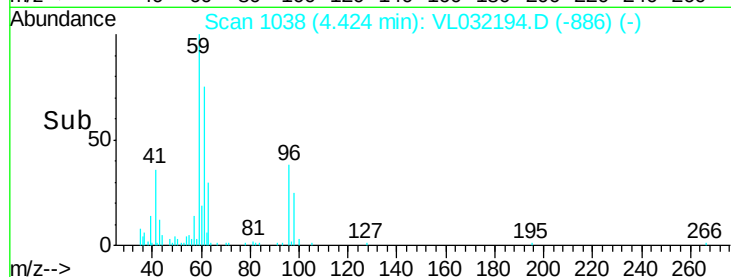
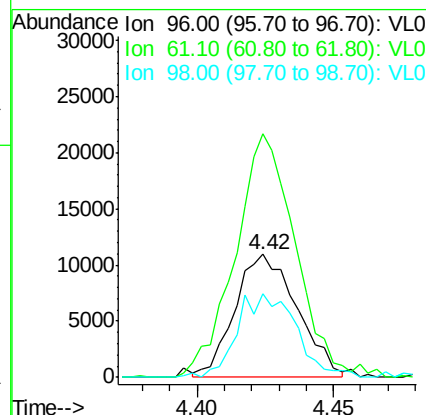
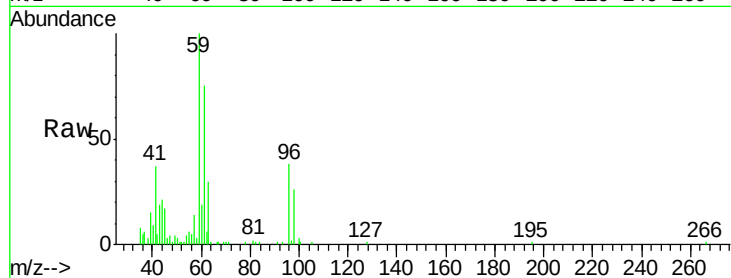
#18
 1,1-Dichloroethene
 Concen: 0.26 ppbv
 RT: 4.42 min Scan# 1038
 Delta R.T. -0.01 min
 Lab File: VL032194.D
 Acq: 2 Jul 2018 23:06

Instrument :
 MSVOA_L
 ClientSampled :
 EFFLUENTDL

Tot Ion	Ratio	Lower	Upper
96	100		
61	195.8	154.1	231.1
98	67.9	50.3	75.5

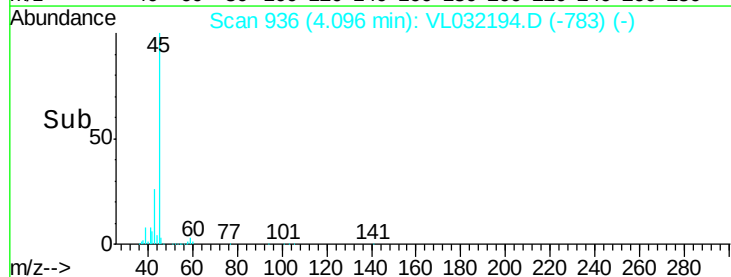
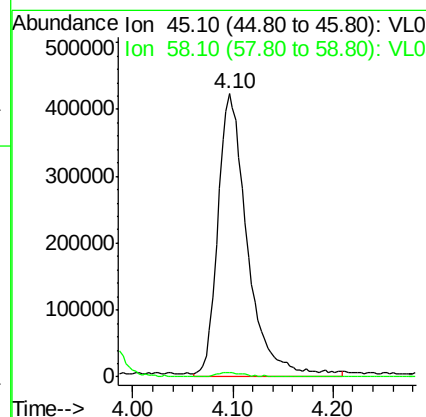
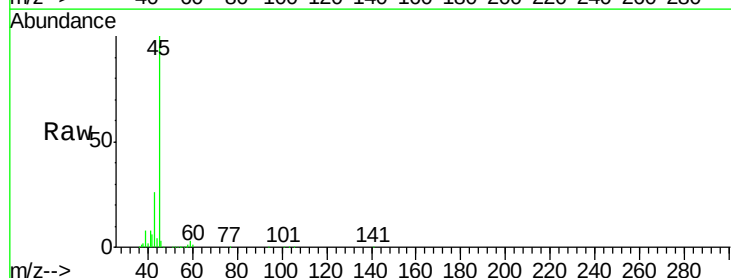
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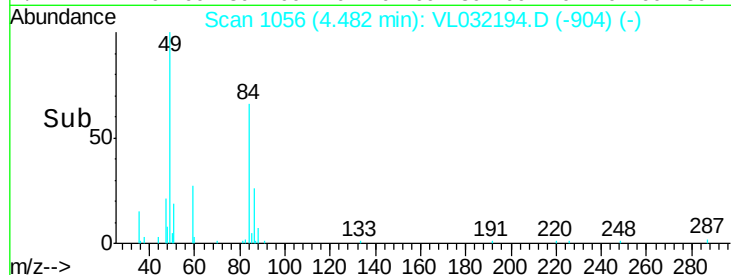
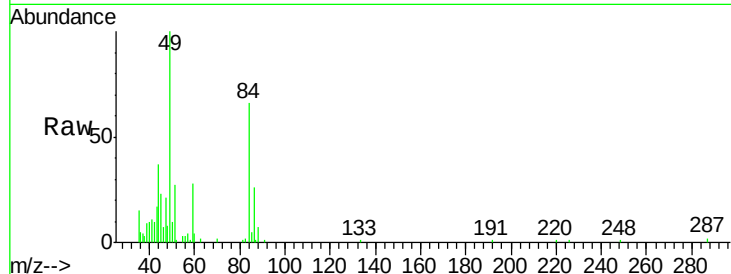
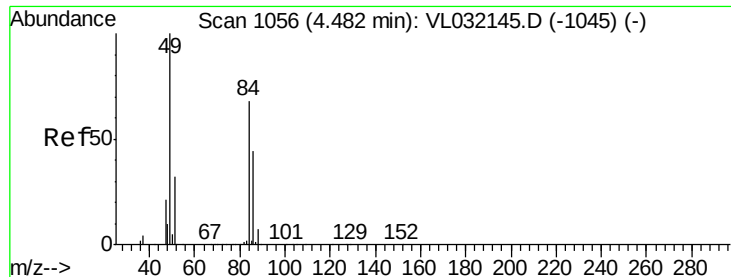
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#19
 Isopropyl Alcohol
 Concen: 6.20 ppbv m
 RT: 4.10 min Scan# 936
 Delta R.T. -0.01 min
 Lab File: VL032194.D
 Acq: 2 Jul 2018 23:06

Tgt Ion	Ratio	Lower	Upper
45	100		
58	0.0	29.4	44.0#





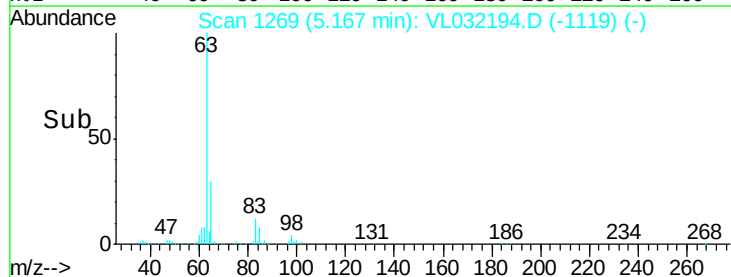
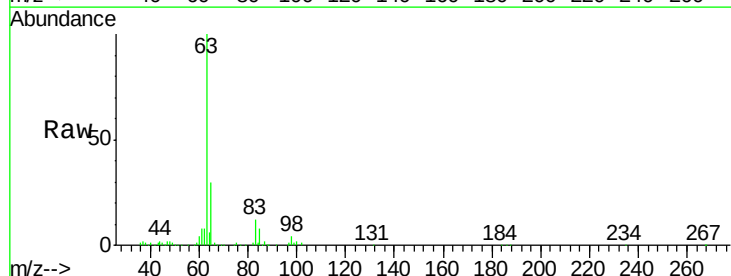
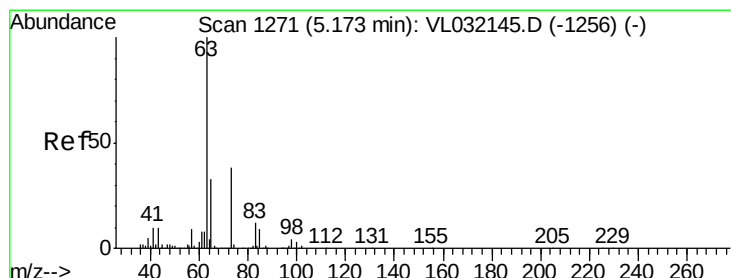
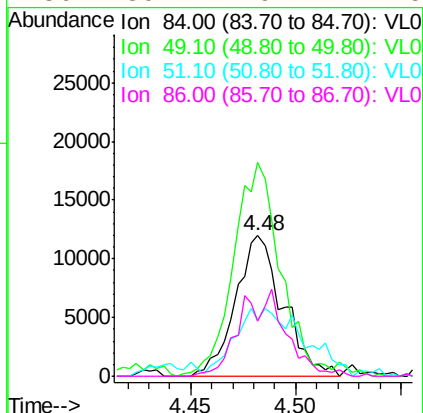
#20
Methylene Chloride
Concen: 0.30 ppbv m
RT: 4.48 min Scan# 1056
Delta R.T. -0.01 min
Lab File: VL032194.D
Acq: 2 Jul 2018 23:06

Tot Ion	Ion	Ratio	Lower	Upper
84	100			
49	152.2	119.6	179.4	
51	40.4	36.3	54.5	
86	39.7	49.7	74.5	

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDL

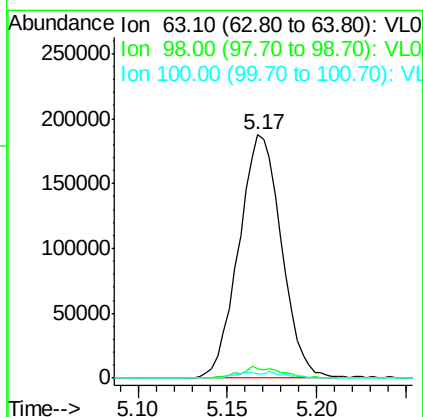
Manual Integrations
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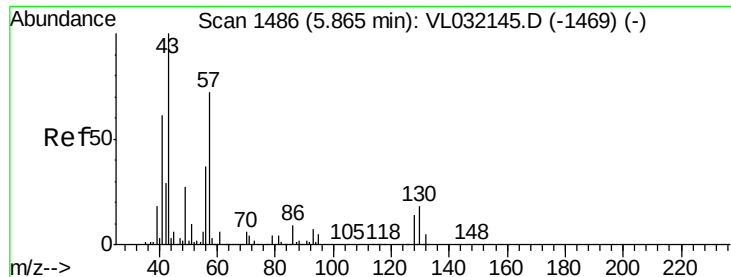
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7/3/2018 5:17:20 PM



#24
1,1-Dichloroethane
Concen: 1.58 ppbv
RT: 5.17 min Scan# 1269
Delta R.T. -0.02 min
Lab File: VL032194.D
Acq: 2 Jul 2018 23:06

Tgt Ion	Ion	Ratio	Lower	Upper
63	100			
98	4.1	2.4	7.2	
100	1.7	1.7	5.0	





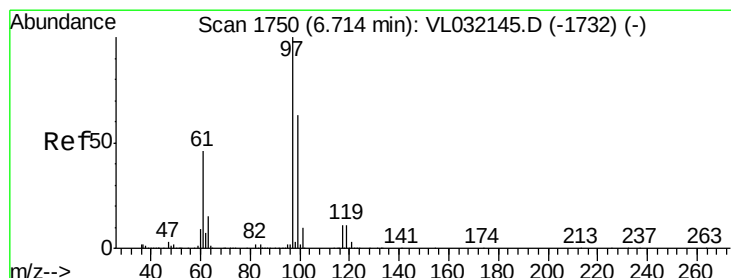
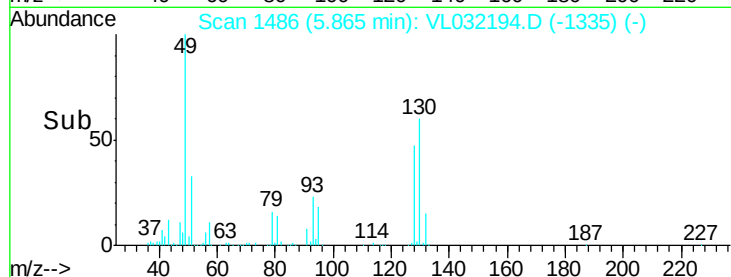
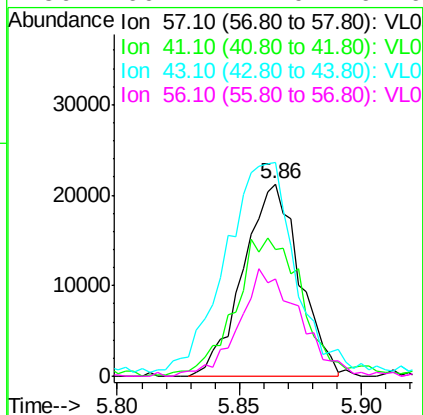
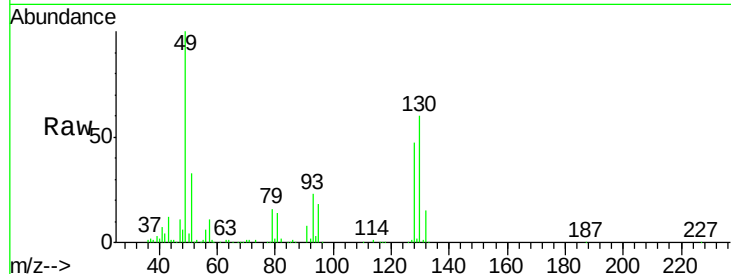
#26
Hexane
Concen: 0.21 ppbv
RT: 5.86 min Scan# 1486
Delta R.T. -0.01 min
Lab File: VL032194.D
Acq: 2 Jul 2018 23:06

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDL

Tot Ion	57	Resp	33984
Ion	Ratio	Lower	Upper
57	100		
41	87.7	68.6	103.0
43	136.0	168.6	252.8#
56	60.1	41.0	61.6

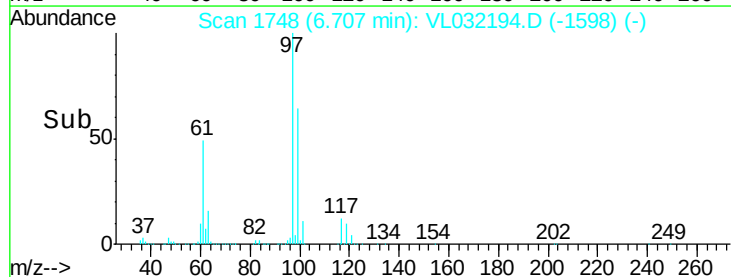
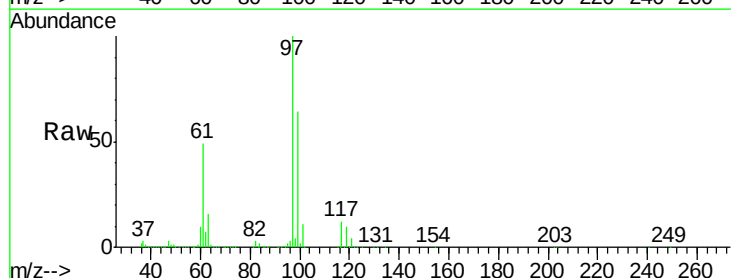
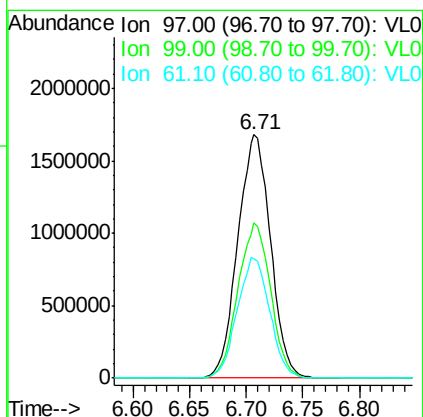
Manual Integrations
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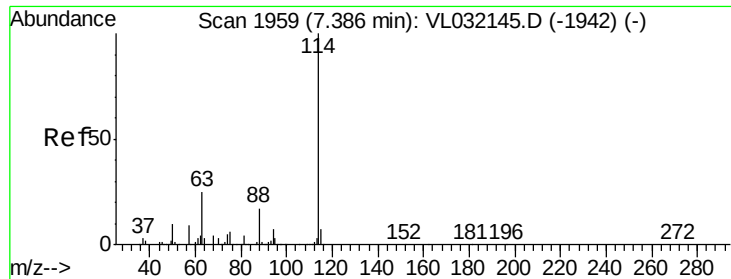
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#32
1,1,1-Trichloroethane
Concen: 13.72 ppbv
RT: 6.71 min Scan# 1748
Delta R.T. -0.02 min
Lab File: VL032194.D
Acq: 2 Jul 2018 23:06

Tgt Ion	97	Resp	3390576
Ion	Ratio	Lower	Upper
97	100		
99	63.6	51.3	76.9
61	49.3	38.4	57.6





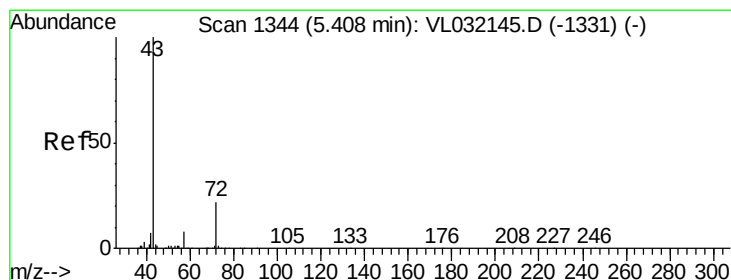
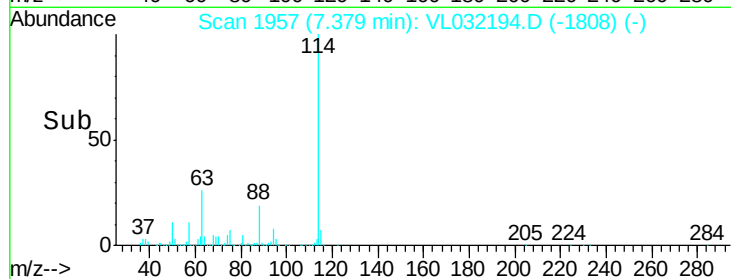
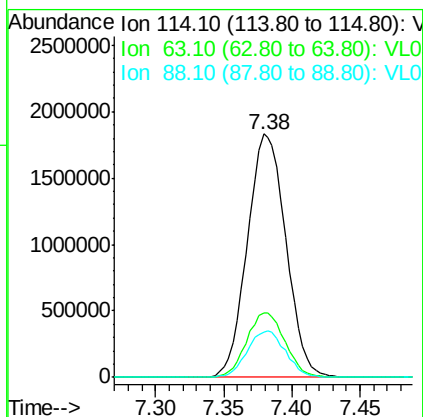
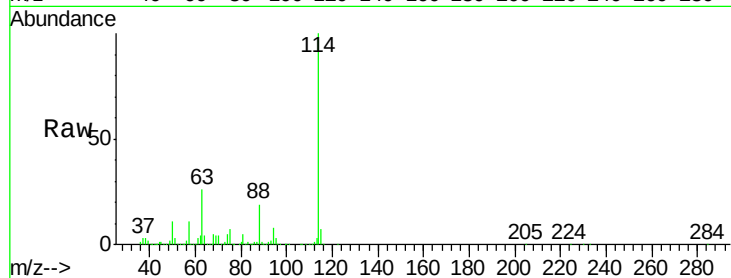
#33
 1,4-Difluorobenzene
 Concen: 10.00 ppbv
 RT: 7.38 min Scan# 1957
 Delta R.T. -0.02 min
 Lab File: VL032194.D
 Acq: 2 Jul 2018 23:06

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.6	19.1	28.7
88	19.1	13.9	20.9

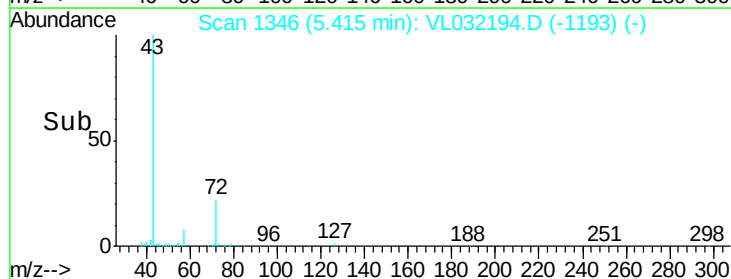
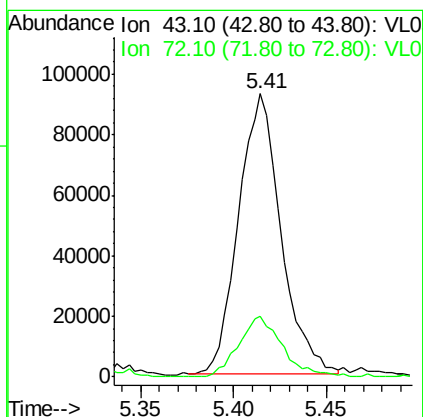
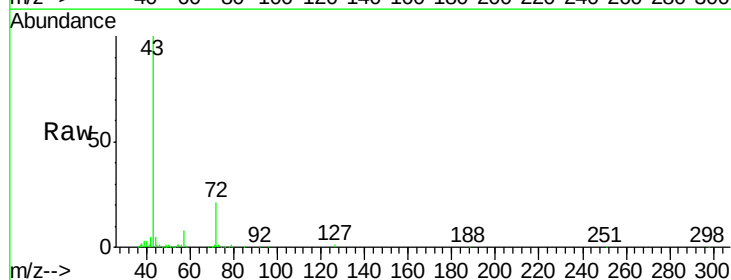
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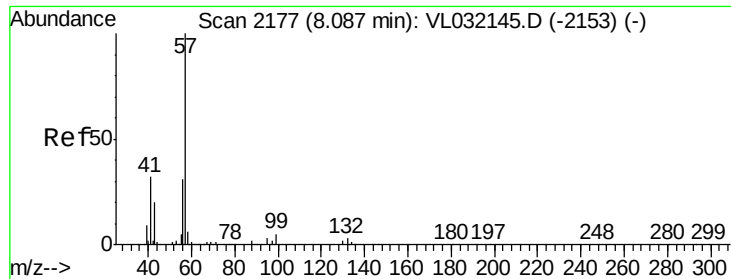
MMDadoda
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#34
 2-Butanone
 Concen: 0.65 ppbv
 RT: 5.41 min Scan# 1346
 Delta R.T. -0.01 min
 Lab File: VL032194.D
 Acq: 2 Jul 2018 23:06

Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.4	18.4	27.6





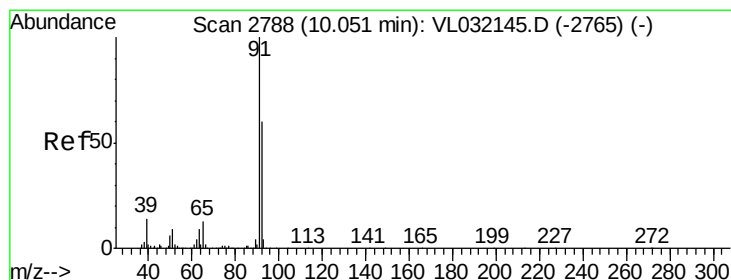
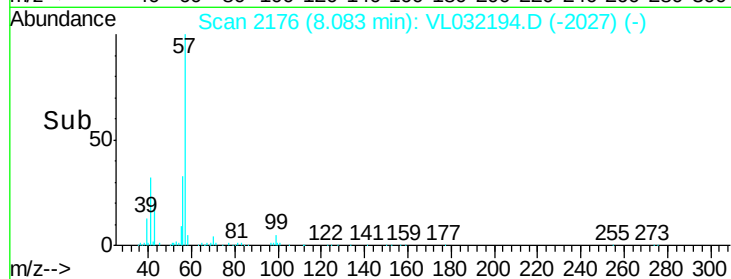
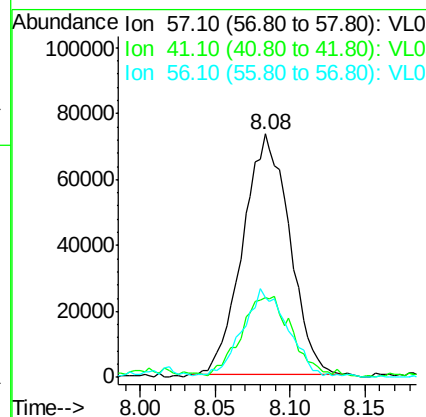
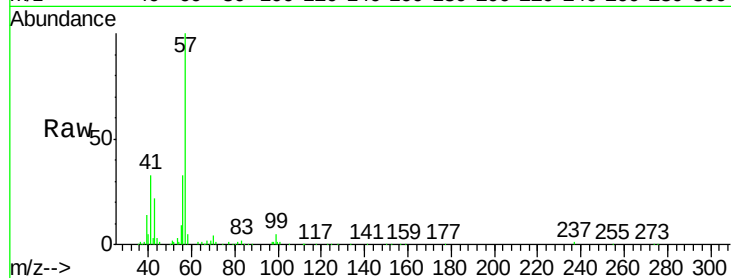
#44
 2,2,4-Trimethylpentane
 Concen: 0.26 ppbv
 RT: 8.08 min Scan# 2176
 Delta R.T. -0.02 min
 Lab File: VL032194.D
 Acq: 2 Jul 2018 23:06

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

Tot Ion	Ratio	Lower	Upper
57	100		
41	37.2	24.3	36.5#
56	36.3	25.1	37.7

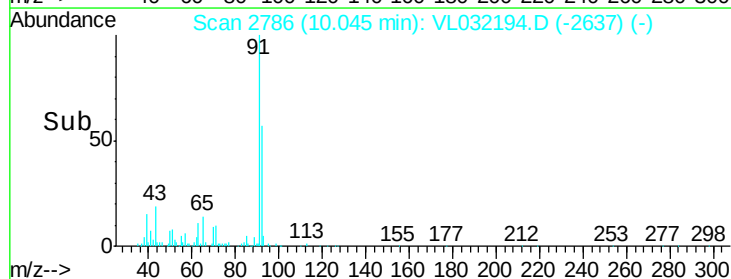
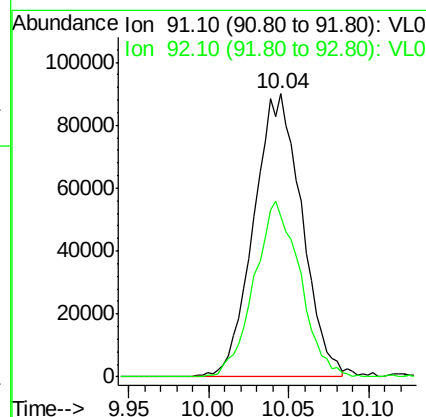
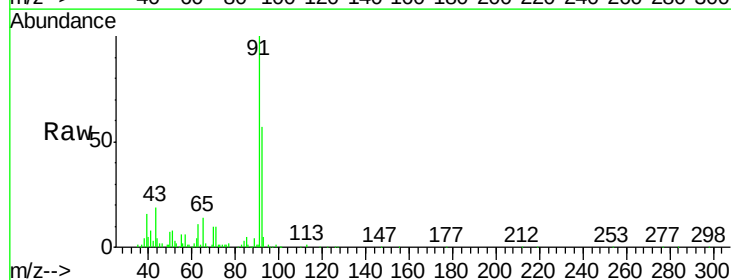
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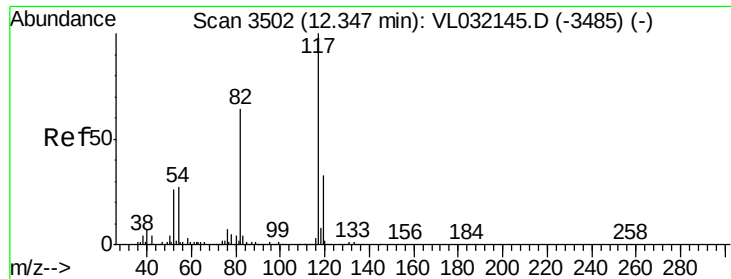
MMDadoda
 7/3/2018 5:17:20 PM



#53
 Toluene
 Concen: 0.44 ppbv
 RT: 10.04 min Scan# 2786
 Delta R.T. -0.02 min
 Lab File: VL032194.D
 Acq: 2 Jul 2018 23:06

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.7	49.2	73.8





#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.34 min Scan# 3500

Delta R.T. -0.02 min

Lab File: VL032194.D

Acq: 2 Jul 2018 23:06

Instrument :

MSVOA_L

ClientSampleId :

EFFLUENTDL

Tot Ion:117 Resp: 3330821

Ion Ratio Lower Upper

117 100

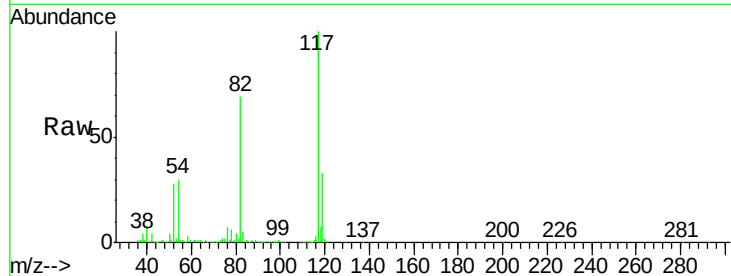
82 69.3 47.8 71.8

119 32.6 43.3 64.9#

Manual Integrations
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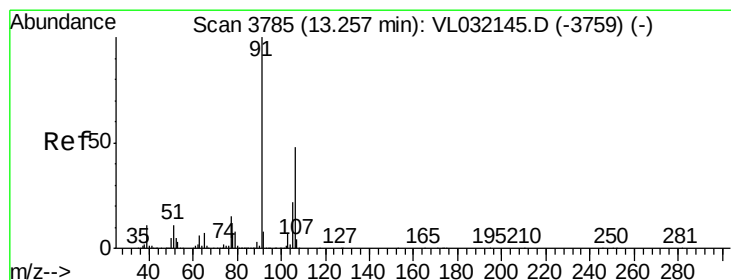
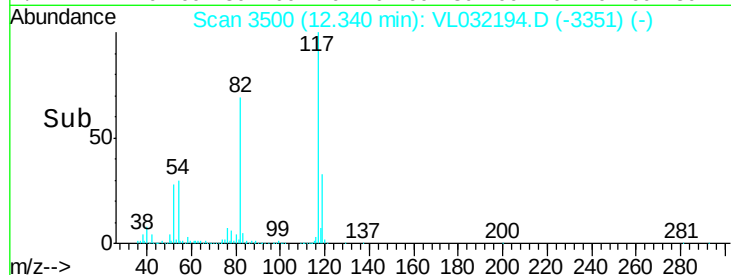
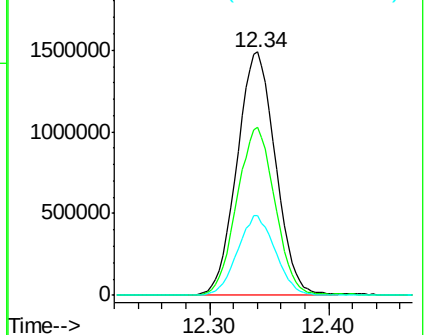
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Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V



#59

m/p-Xylene

Concen: 0.35 ppbv m

RT: 13.22 min Scan# 3774

Delta R.T. -0.05 min

Lab File: VL032194.D

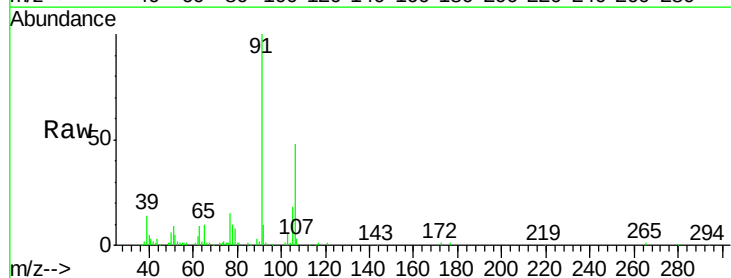
Acq: 2 Jul 2018 23:06

Tgt Ion: 91 Resp: 150248

Ion Ratio Lower Upper

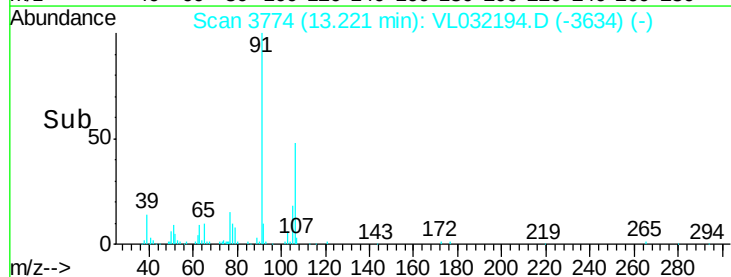
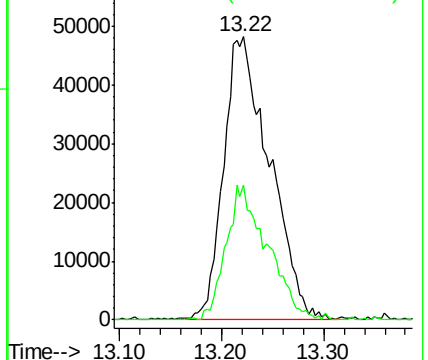
91 100

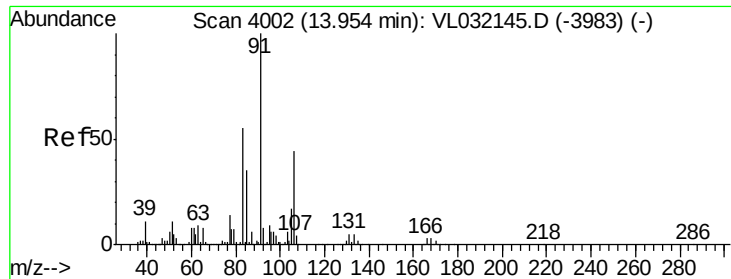
106 0.0 38.6 58.0#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





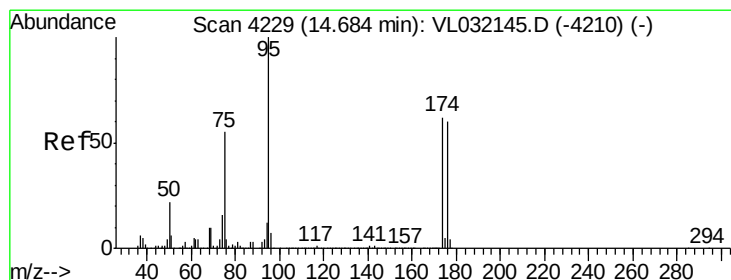
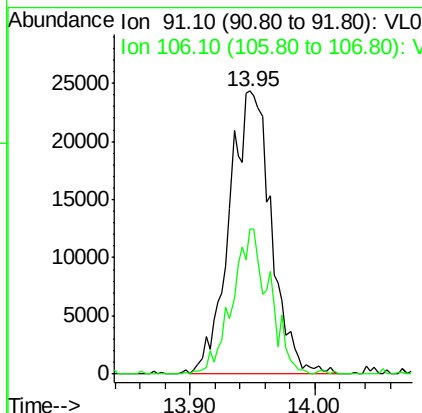
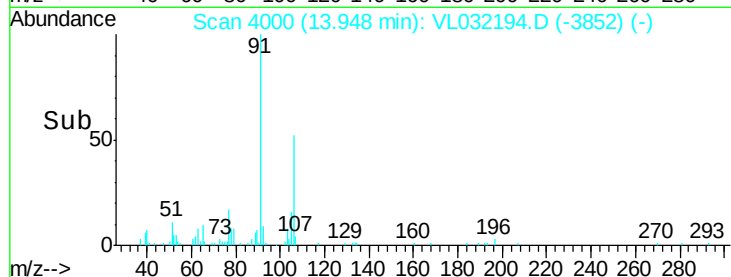
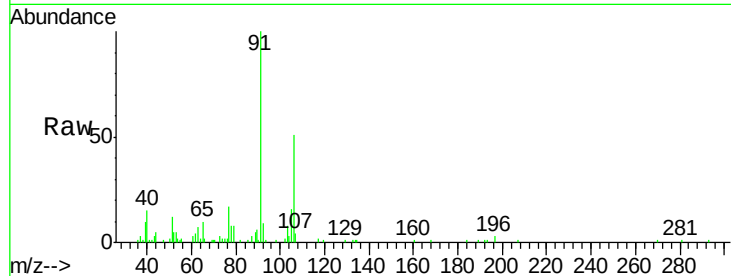
#60
o-Xylene
Concen: 0.13 ppbv m
RT: 13.95 min Scan# 4000
Delta R.T. -0.02 min
Lab File: VL032194.D
Acq: 2 Jul 2018 23:06

Instrument :
MSVOA_L
ClientSampleId :
EFFLUENTDL

Tot Ion	Ratio	Lower	Upper
91	100		
106	46.0	23.3	69.8

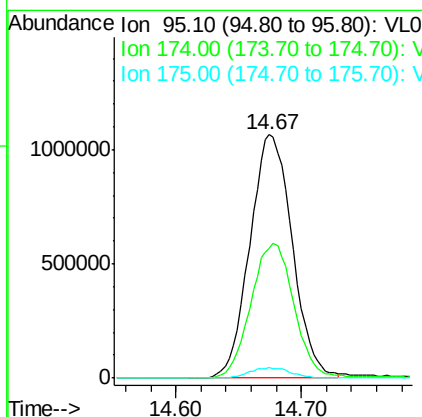
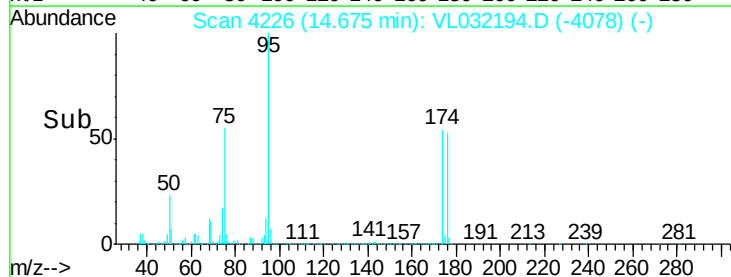
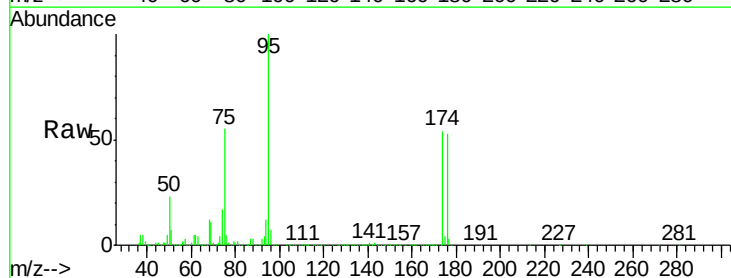
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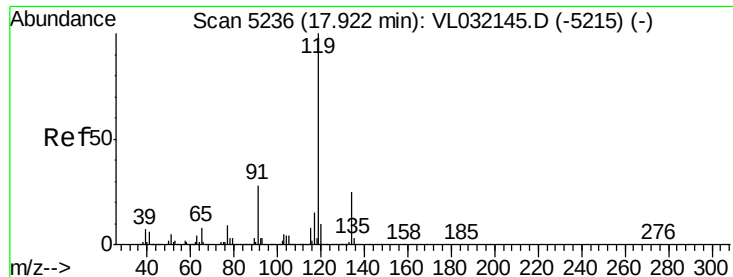
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#68
1-Bromo-4-Fluorobenzene
Concen: 9.85 ppbv
RT: 14.67 min Scan# 4226
Delta R.T. -0.02 min
Lab File: VL032194.D
Acq: 2 Jul 2018 23:06

Tgt Ion	Ratio	Lower	Upper
95	100		
174	57.0	52.1	78.1
175	4.2	4.0	6.0





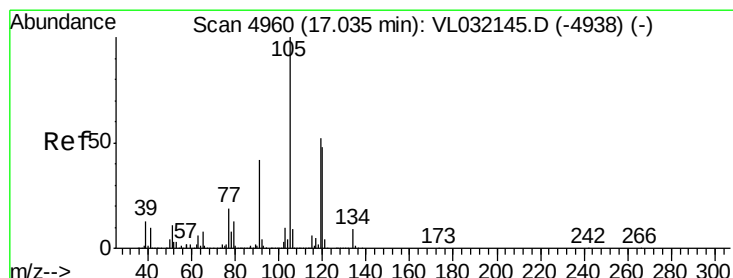
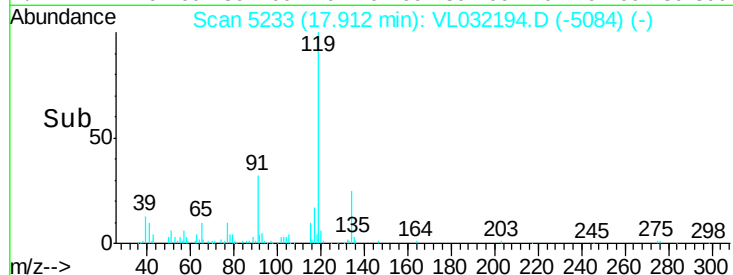
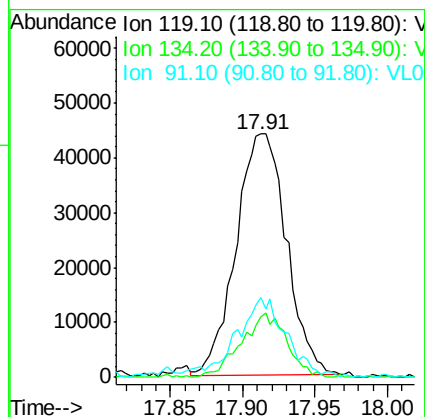
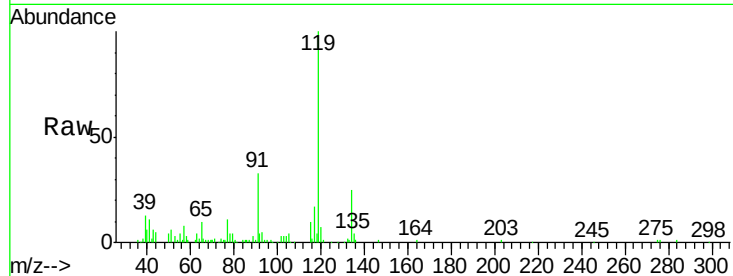
#69
 p-Isopropyltoluene
 Concen: 0.16 ppbv
 RT: 17.91 min Scan# 5233
 Delta R.T. -0.02 min
 Lab File: VL032194.D
 Acq: 2 Jul 2018 23:06

Instrument :
 MSVOA_L
 ClientSampleId :
 EFFLUENTDL

Tot Ion	Ratio	Resp	Lower	Upper
119	100	106390		
134	24.2	20.7	31.1	
91	34.7	21.8	32.8#	

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.13 ppbv m
 RT: 17.02 min Scan# 4957
 Delta R.T. -0.02 min
 Lab File: VL032194.D
 Acq: 2 Jul 2018 23:06

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	69644		
120	34.3	38.8	58.2#	
91	15.0	33.6	50.4#	
77	17.0	16.0	24.0	

