

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL081618\
 Data File : VL032392.D
 Acq On : 17 Aug 2018 1:03
 Operator : SY/AP
 Sample : J4457-10DL 5X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SG10-MIVIDL

Manual Integrations
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Quant Time: Aug 20 10:13:36 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_LWed Aug 1
 QLast Update : Wed Aug 15 14:58:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.81	49	1801269	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.35	114	3471718	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.30	117	3479061	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.64	95	2703960	10.19	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.07	41	55197m	0.77	ppbv	
13) Ethanol	3.69	45	79518m	4.34	ppbv	
15) Acetone	3.95	43	1187334	6.94	ppbv	98
17) tert-Butyl alcohol	4.41	59	63304	2.20	ppbv #	92
19) Isopropyl Alcohol	4.07	45	169558	1.47	ppbv #	95
20) Methylene Chloride	4.46	84	90201	1.40	ppbv	96
26) Hexane	5.83	57	40236	0.25	ppbv #	70
27) Carbon Disulfide	4.67	76	20461m	0.13	ppbv	
34) 2-Butanone	5.39	43	146443	0.62	ppbv	100
36) Benzene	7.06	78	59495	0.20	ppbv	100
53) Toluene	10.01	91	449458	1.39	ppbv	99
58) Ethyl Benzene	12.93	91	51441	0.12	ppbv #	79
59) m/p-Xylene	13.19	91	151150m	0.43	ppbv	
60) o-Xylene	13.91	91	58563m	0.17	ppbv	
61) Styrene	13.76	104	28722m	0.12	ppbv	
74) 1,2,4-Trimethylbenzene	17.00	105	66853	0.17	ppbv #	69

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

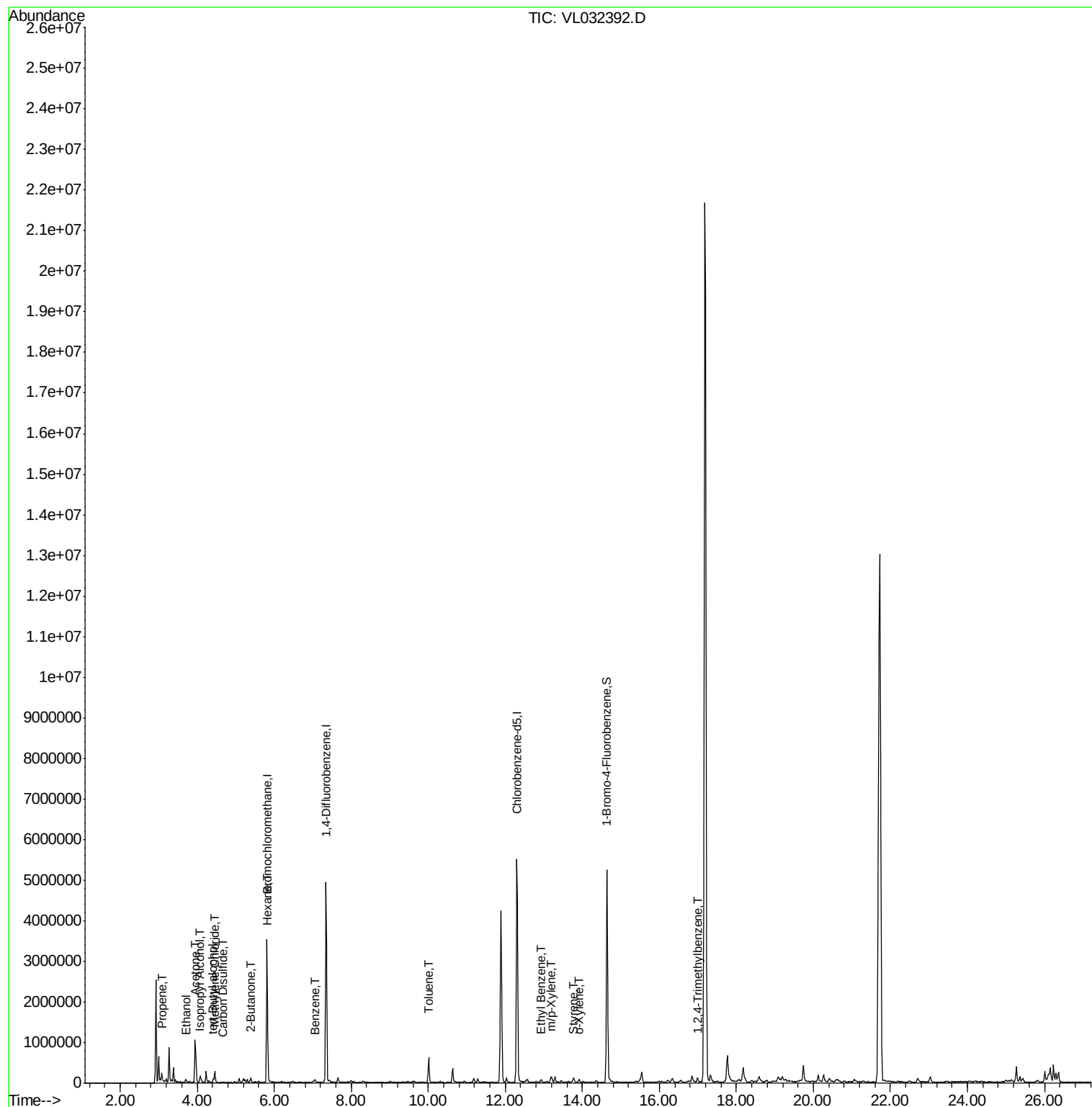
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL081618\
Data File : VL032392.D
Acq On : 17 Aug 2018 1:03
Operator : SY/AP
Sample : J4457-10DL 5X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

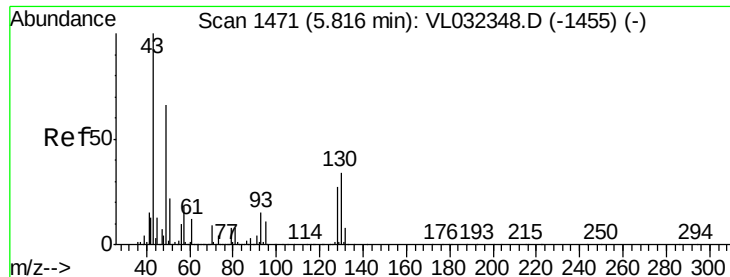
Instrument :
MSVOA_L
ClientSampleId :
SG10-MIVIDL

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Quant Time: Aug 20 10:13:36 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL081518AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Aug
QLast Update : Wed Aug 15 14:58:02 2018
Response via : Initial Calibration





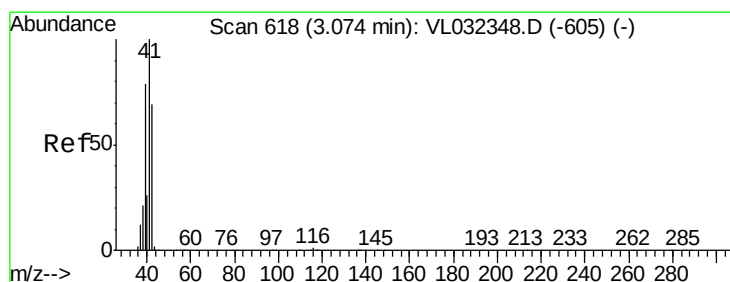
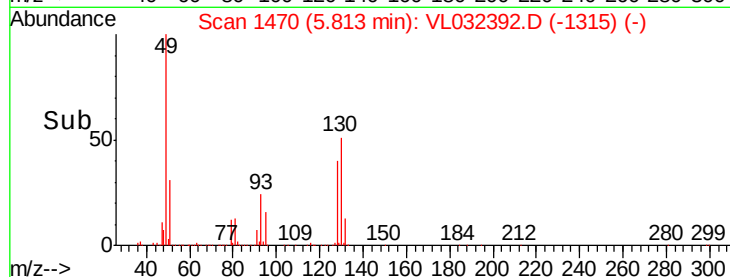
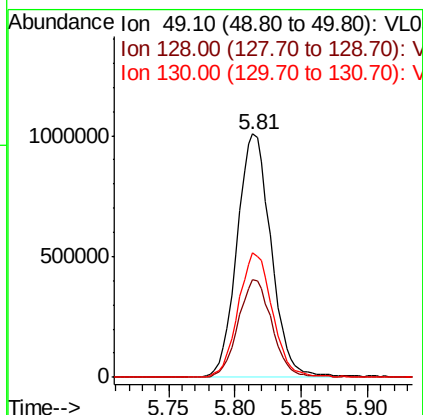
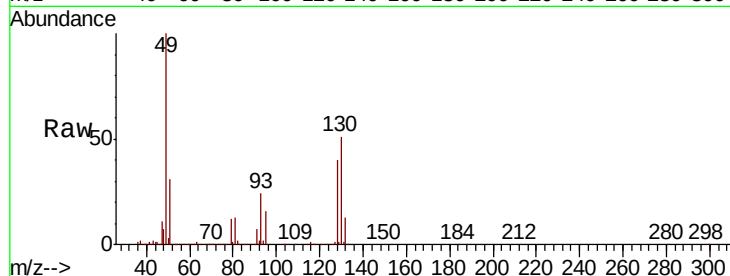
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.81 min Scan# 1470
 Delta R.T. -0.00 min
 Lab File: VL032392.D
 Acq: 17 Aug 2018 1:03

Instrument :
 MSVOA_L
 ClientSampleID :
 SG10-MIVIDL

Tot Ion	Ratio	Lower	Upper
49	100		
128	40.4	20.5	61.6
130	51.7	26.2	78.5

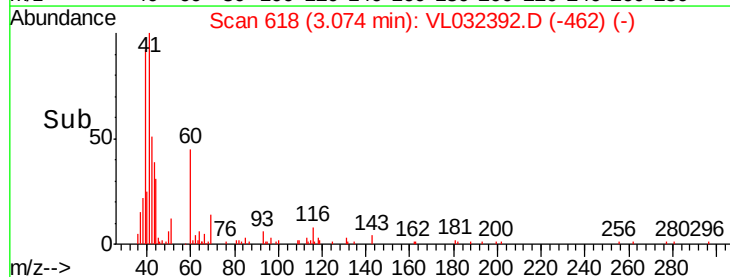
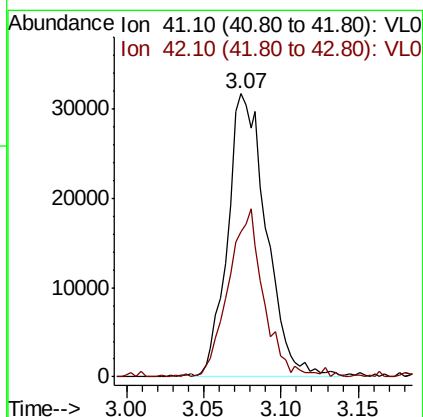
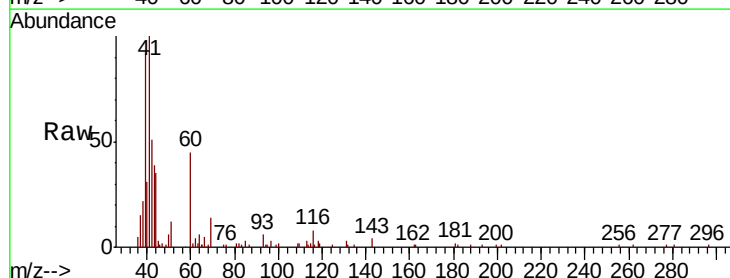
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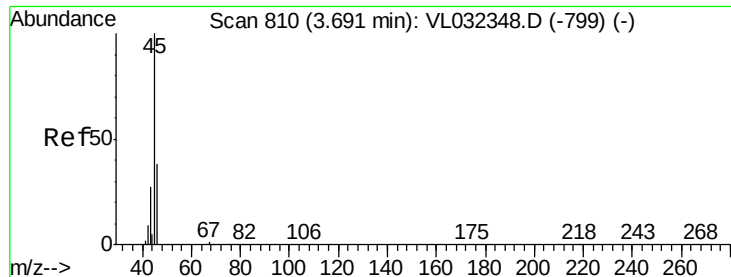
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#9
 Propene
 Concen: 0.77 ppbv m
 RT: 3.07 min Scan# 618
 Delta R.T. 0.00 min
 Lab File: VL032392.D
 Acq: 17 Aug 2018 1:03

Tgt Ion	Ratio	Lower	Upper
41	100		
42	0.0	55.9	83.9#





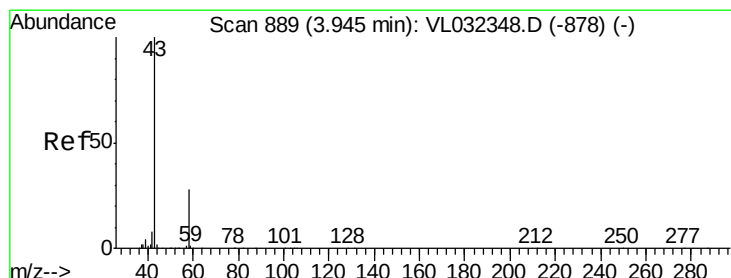
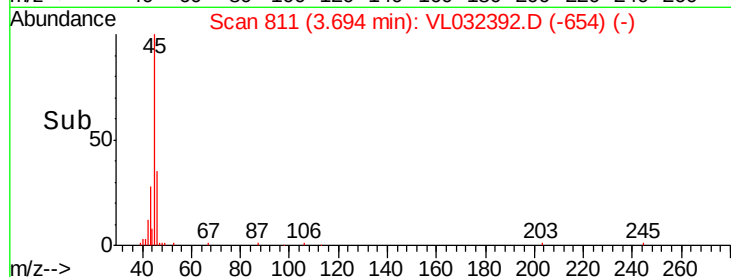
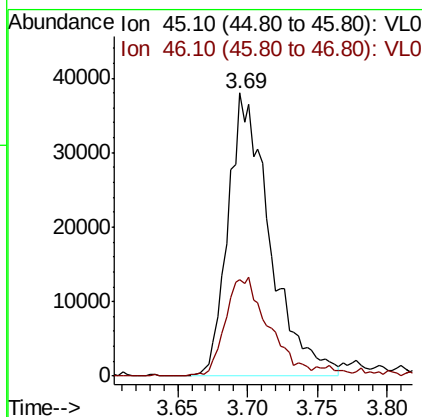
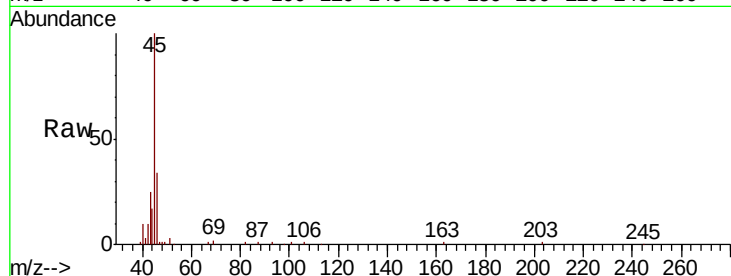
#13
Ethanol
Concen: 4.34 ppbv m
RT: 3.69 min Scan# 811
Delta R.T. 0.00 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Instrument :
MSVOA_L
ClientSampleId :
SG10-MIVIDL

Tot Ion	45	46	Ratio	Lower	Upper
79518	100	0.0		15.6	62.4#

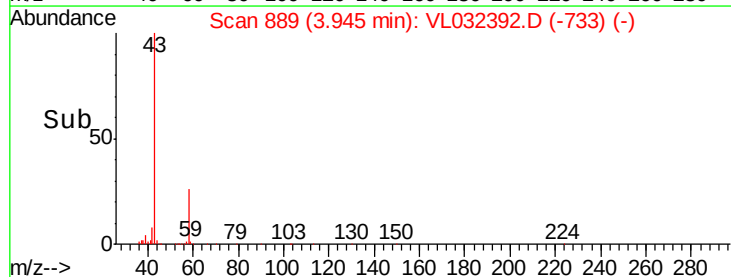
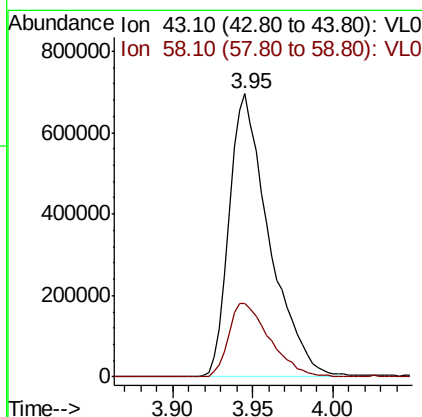
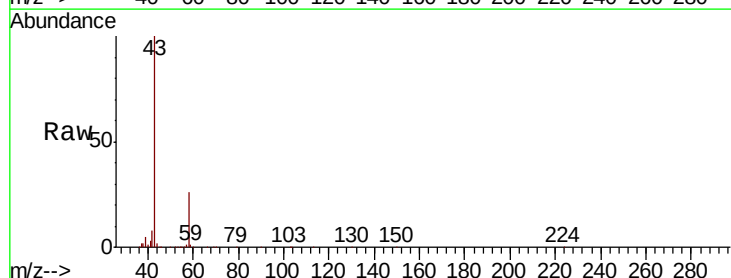
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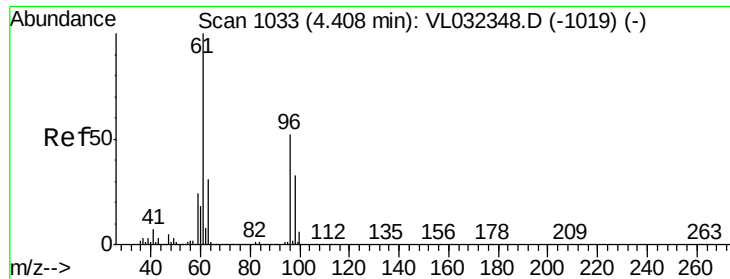
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#15
Acetone
Concen: 6.94 ppbv
RT: 3.95 min Scan# 889
Delta R.T. 0.00 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Tgt Ion	43	58	Ratio	Lower	Upper
1187334	100	27.1		22.4	33.6





#17

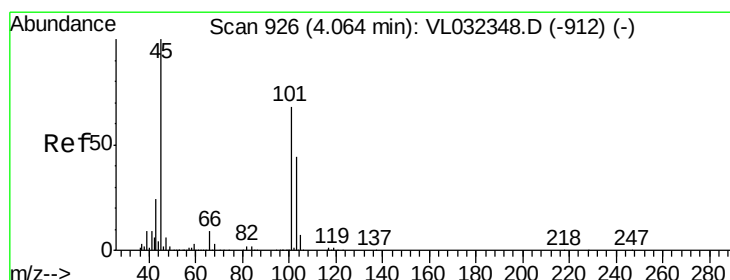
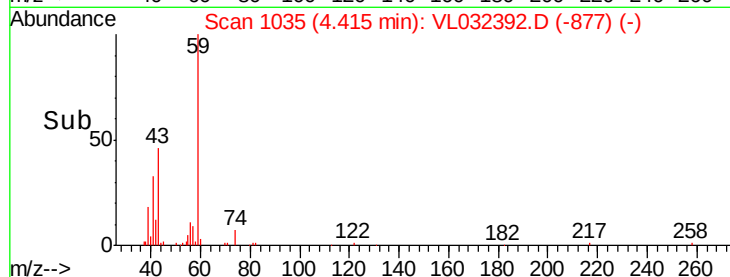
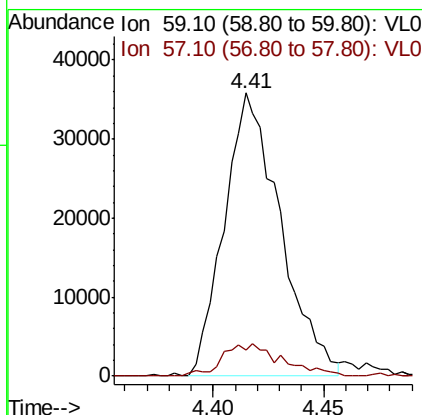
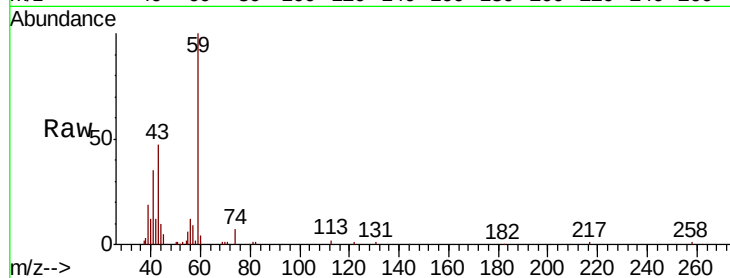
tert-Butyl alcohol
Concen: 2.20 ppbv
RT: 4.41 min Scan# 1035
Delta R.T. 0.01 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Instrument :
MSVOA_L
ClientSampleId :
SG10-MIVIDL

Tot Ion	59	Resp	63304
Ion	Ratio	Lower	Upper
59	100		
57	12.3	7.6	11.4#

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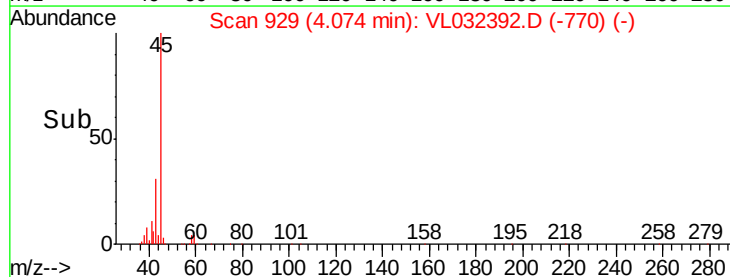
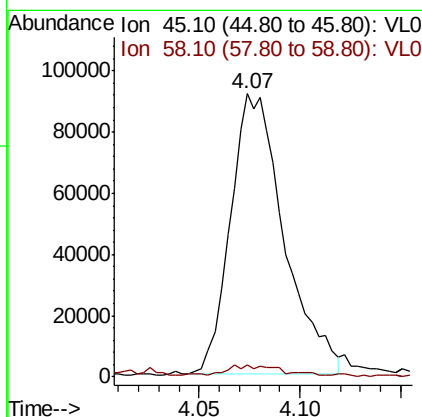
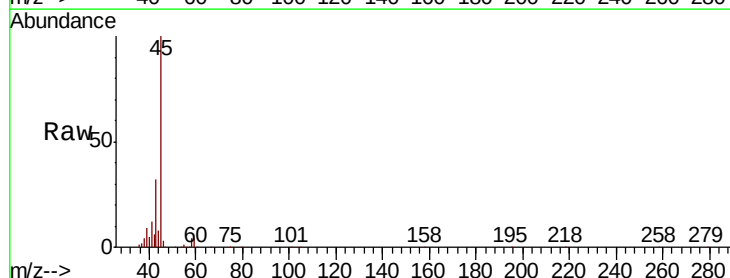
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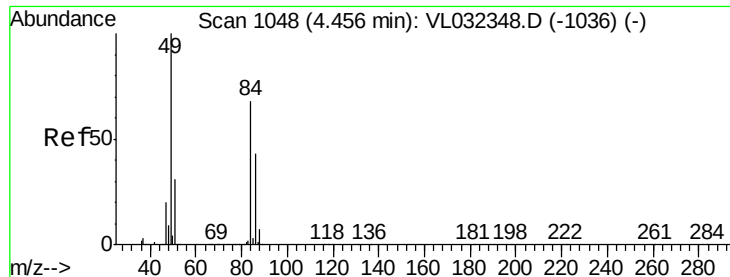


#19

Isopropyl Alcohol
Concen: 1.47 ppbv
RT: 4.07 min Scan# 929
Delta R.T. 0.01 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Tgt Ion	45	Resp	169558
Ion	Ratio	Lower	Upper
45	100		
58	0.0	1.4	2.0#





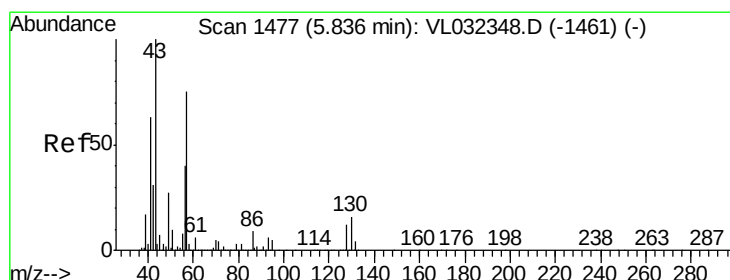
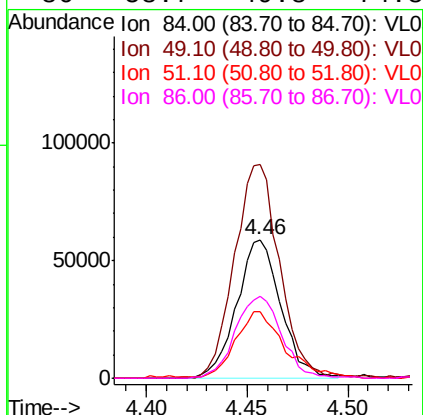
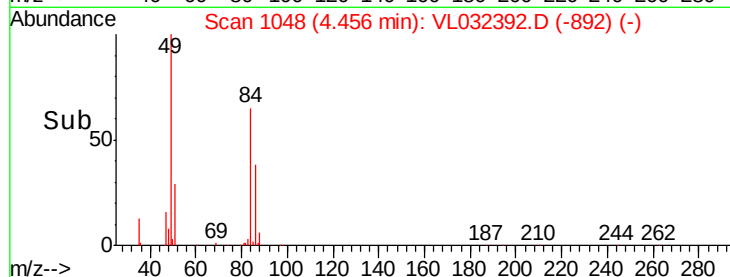
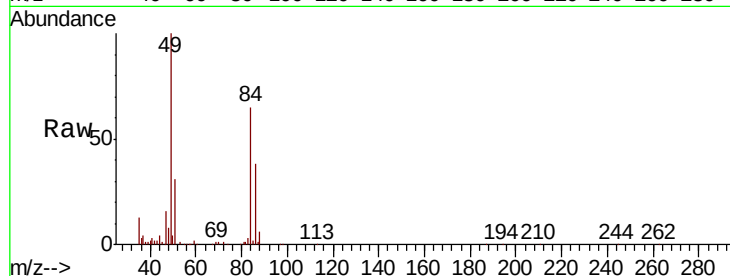
#20
Methvlene Chloride
Concen: 1.40 ppbv
RT: 4.46 min Scan# 1048
Delta R.T. 0.00 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Instrument :
MSVOA_L
ClientSampleId :
SG10-MIVIDL

Tot Ion	Ion	Ratio	Resp	Lower	Upper
84	100				
49	153.4		117.3	175.9	
51	46.4		36.6	55.0	
86	58.7		49.8	74.8	

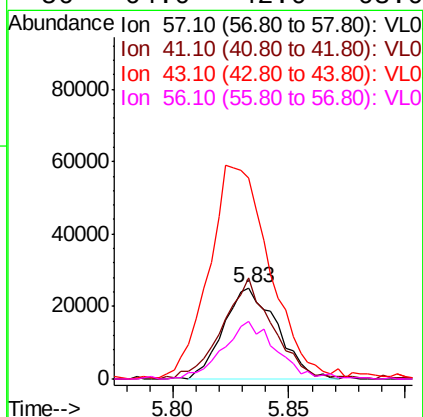
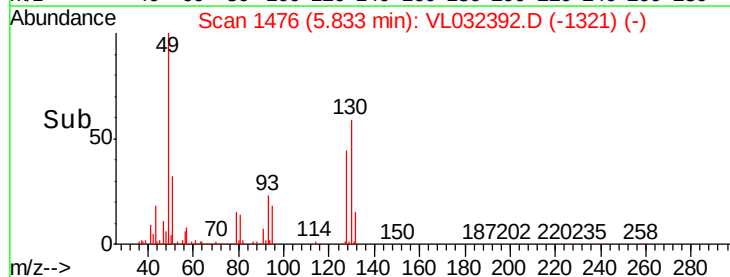
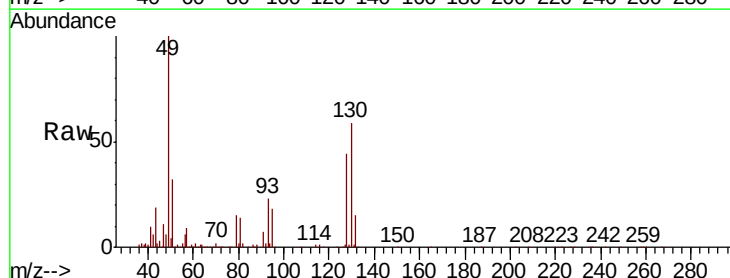
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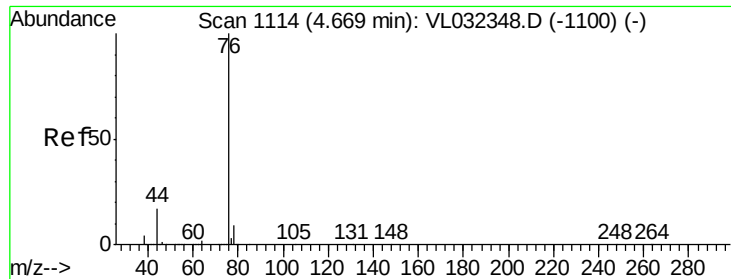
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#26
Hexane
Concen: 0.25 ppbv
RT: 5.83 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
57	100				
41	106.3		68.0	102.0#	
43	276.3		175.3	262.9#	
56	64.0		42.0	63.0#	





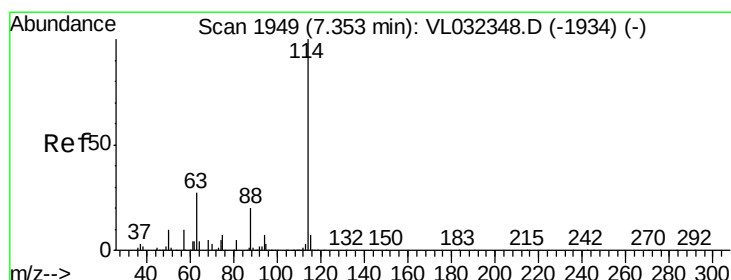
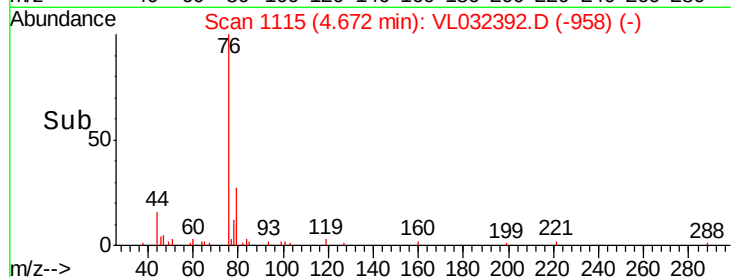
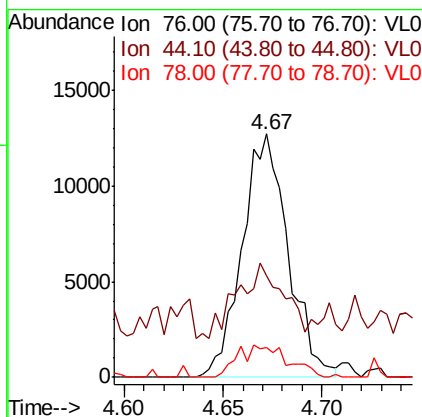
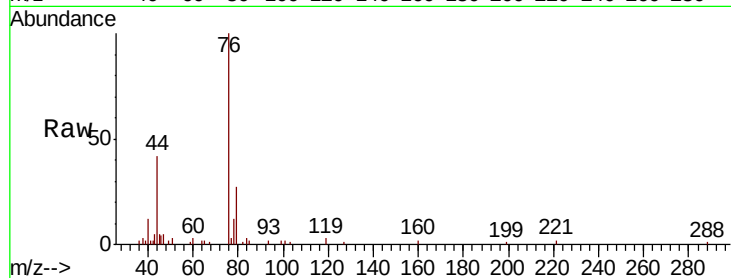
#27
Carbon Disulfide
Concen: 0.13 ppbv m
RT: 4.67 min Scan# 1115
Delta R.T. 0.00 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Instrument :
MSVOA_L
ClientSampleId :
SG10-MIVIDL

Tot Ion	Ratio	Lower	Upper
76	100		
44	28.0	14.4	21.6#
78	15.5	7.4	11.0#

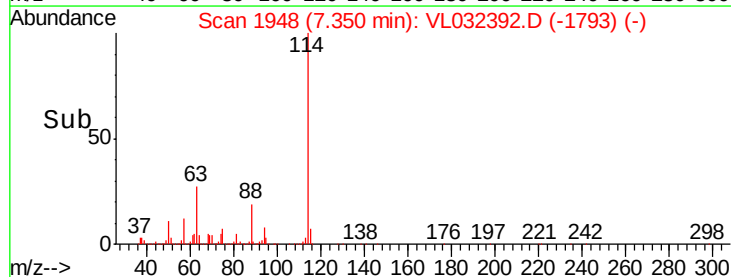
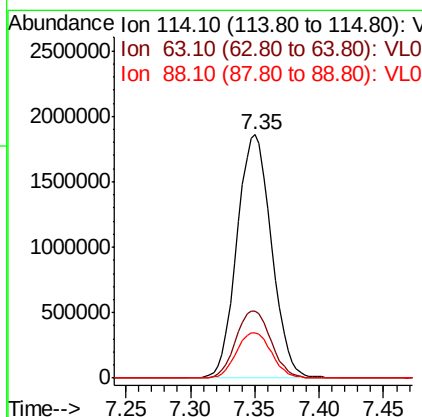
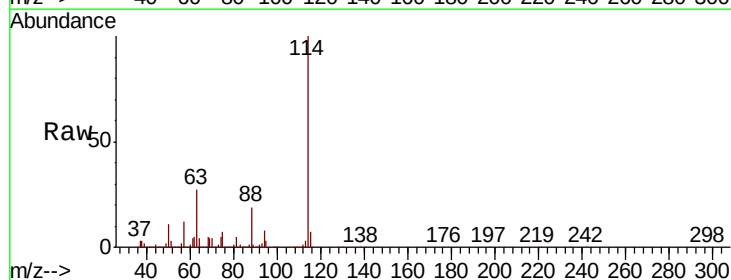
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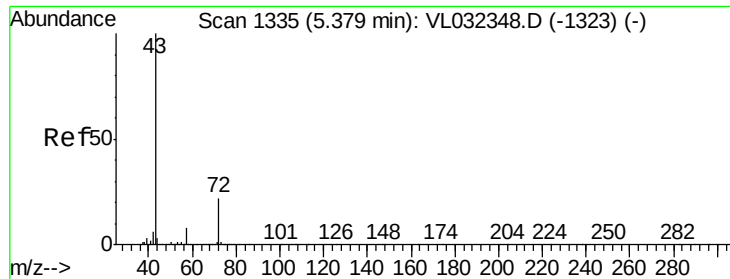
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.35 min Scan# 1948
Delta R.T. -0.00 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Tgt Ion	Ratio	Lower	Upper
114	100		
63	28.1	22.0	33.0
88	19.0	15.3	22.9





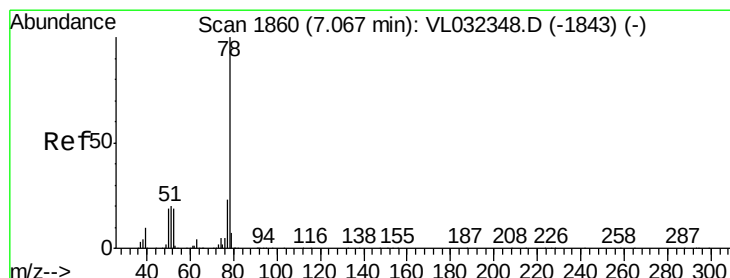
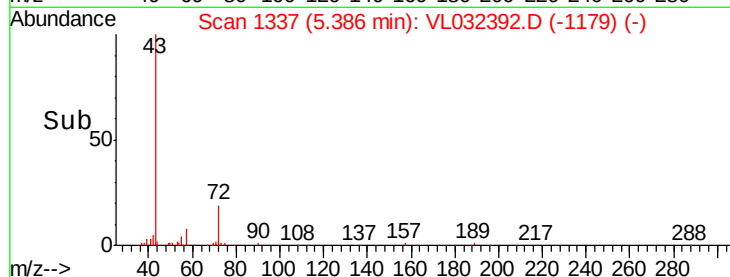
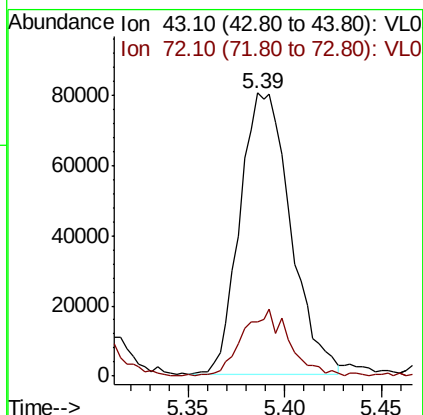
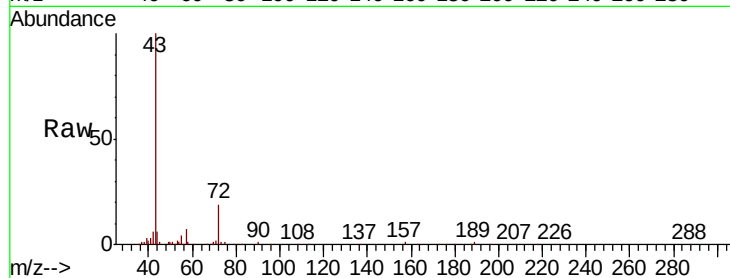
#34
2-Butanone
Concen: 0.62 ppbv
RT: 5.39 min Scan# 1337
Delta R.T. 0.01 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Instrument :
MSVOA_L
ClientSampleId :
SG10-MIVIDL

Tot Ion	43	Resp	146443
Ion Ratio	Lower	Upper	
43	100		
72	22.4	17.9	26.9

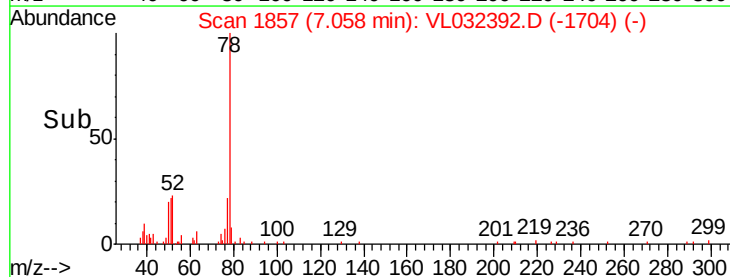
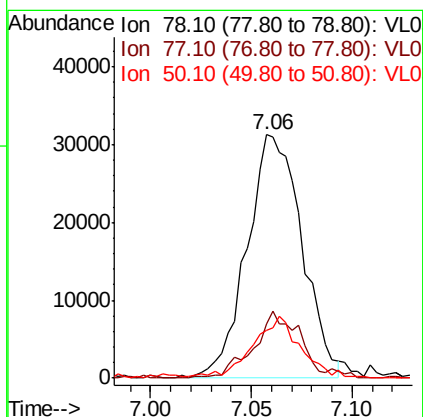
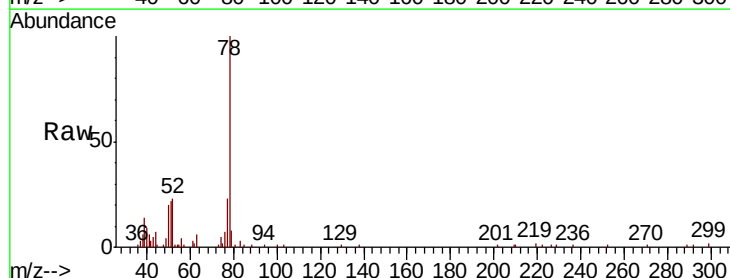
Manual Integrations
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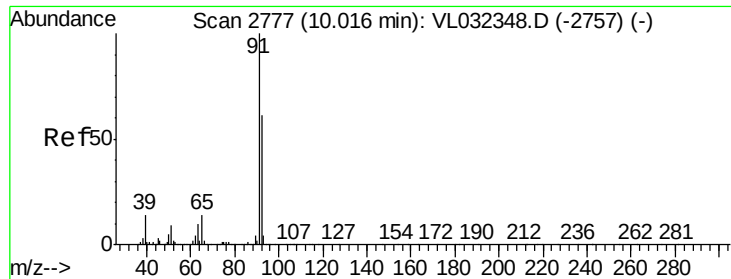
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#36
Benzene
Concen: 0.20 ppbv
RT: 7.06 min Scan# 1857
Delta R.T. -0.01 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Tgt Ion	78	Resp	59495
Ion Ratio	Lower	Upper	
78	100		
77	22.5	18.0	27.0
50	18.6	15.1	22.7





#53

Toluene

Concen: 1.39 ppbv

RT: 10.01 min Scan# 2776

Delta R.T. -0.00 min

Lab File: VL032392.D

Acq: 17 Aug 2018 1:03

Instrument :

MSVOA_L

ClientSampled :

SG10-MIVIDL

Tot Ion: 91 Resp: 449458

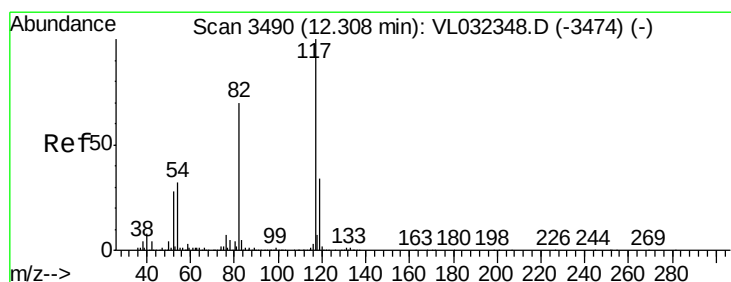
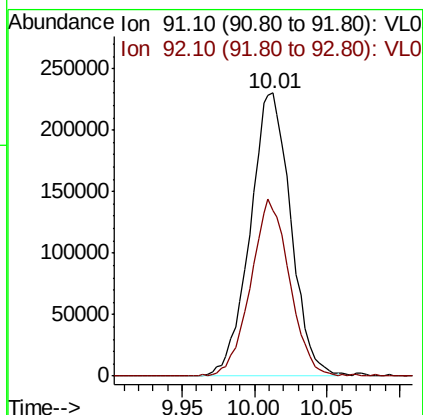
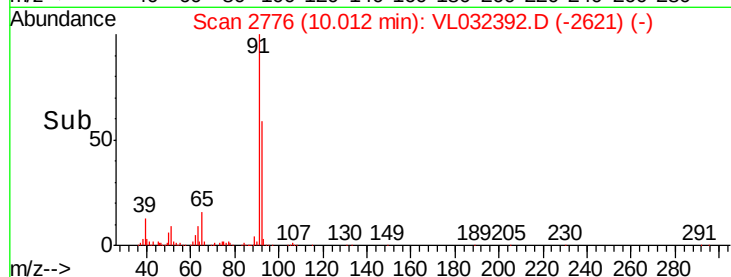
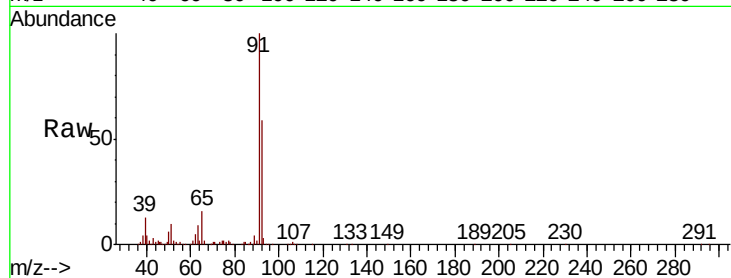
Ion Ratio Lower Upper

91 100

92 60.4 48.7 73.1

Manual Integrations
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#55

Chlorobenzene-d5

Concen: 10.00 ppbv

RT: 12.30 min Scan# 3488

Delta R.T. -0.01 min

Lab File: VL032392.D

Acq: 17 Aug 2018 1:03

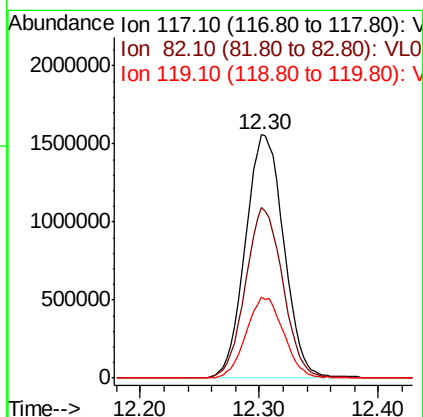
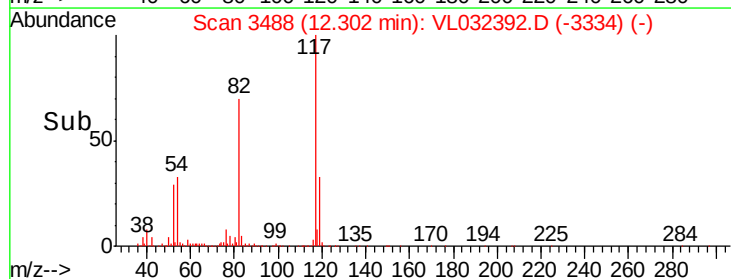
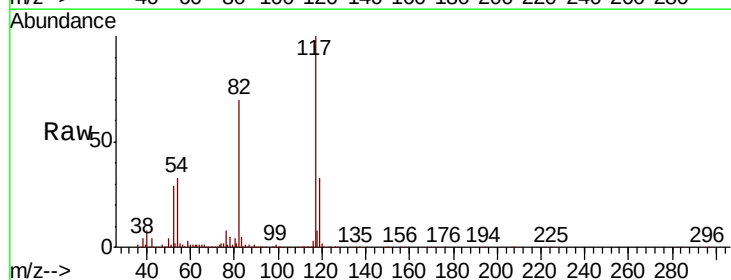
Tgt Ion: 117 Resp: 3479061

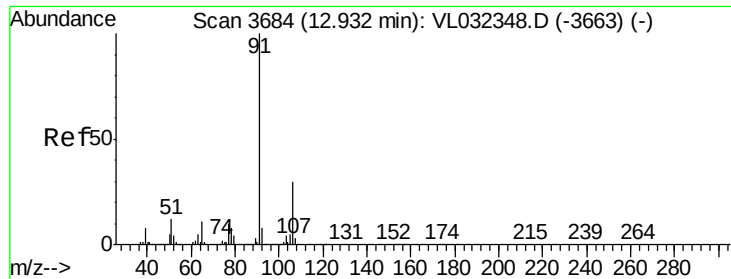
Ion Ratio Lower Upper

117 100

82 68.5 55.1 82.7

119 32.6 46.0 69.0#





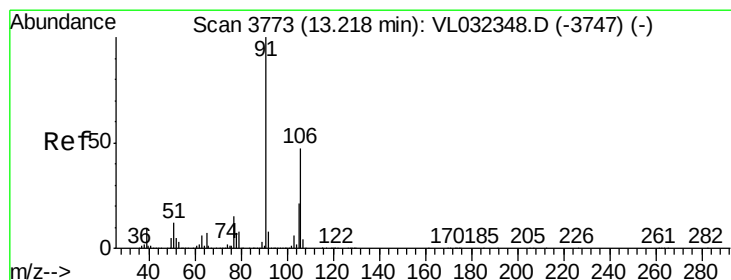
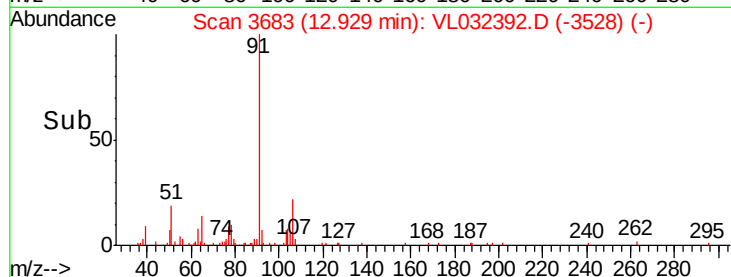
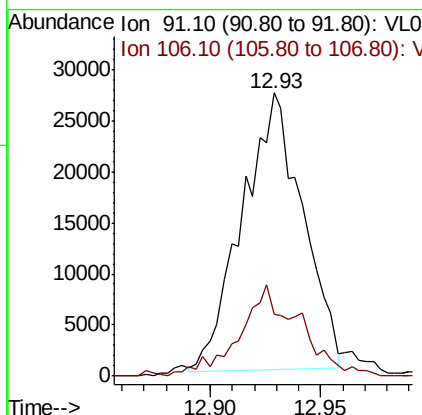
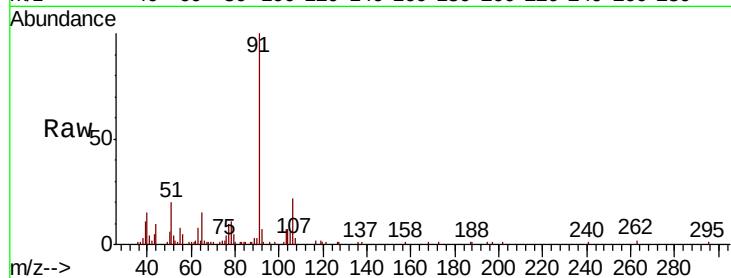
#58
Ethyl Benzene
Concen: 0.12 ppbv
RT: 12.93 min Scan# 3683
Delta R.T. -0.00 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Instrument :
MSVOA_L
ClientSampleId :
SG10-MIVIDL

Tot Ion: 91 Resp: 51441
Ion Ratio Lower Upper
91 100
106 19.2 24.3 36.5#

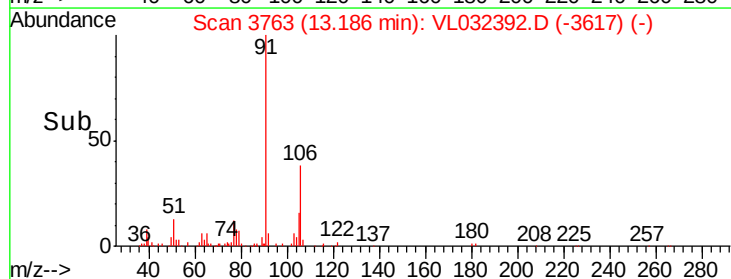
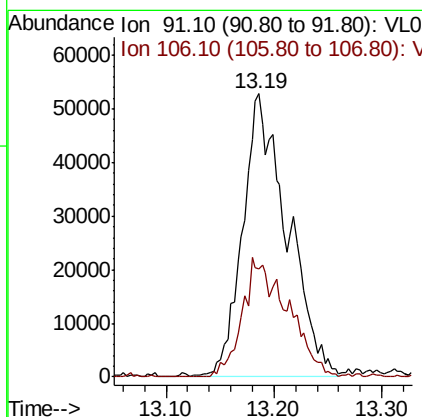
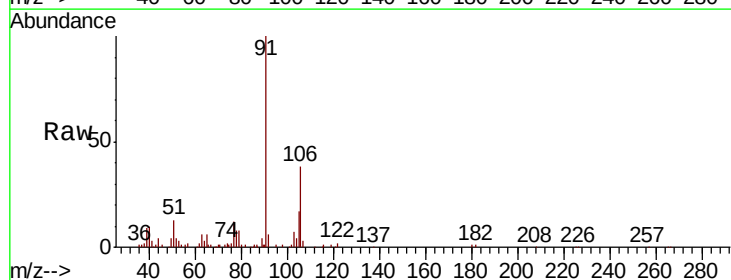
Manual Integrations
APPROVED

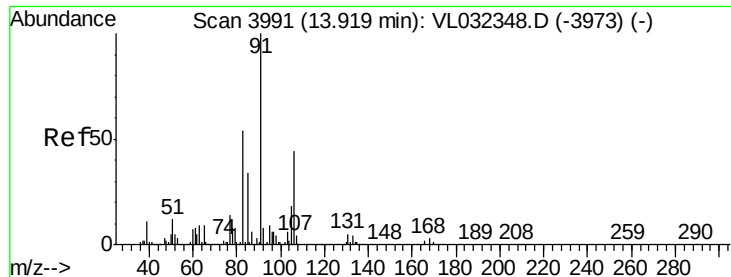
MMDadoda
8/20/2018 3:11:56 PM



#59
m/p-Xylene
Concen: 0.43 ppbv m
RT: 13.19 min Scan# 3763
Delta R.T. -0.03 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Tgt Ion: 91 Resp: 151150
Ion Ratio Lower Upper
91 100
106 0.0 37.0 55.4#





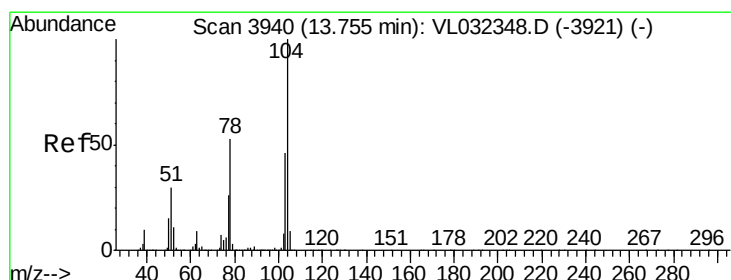
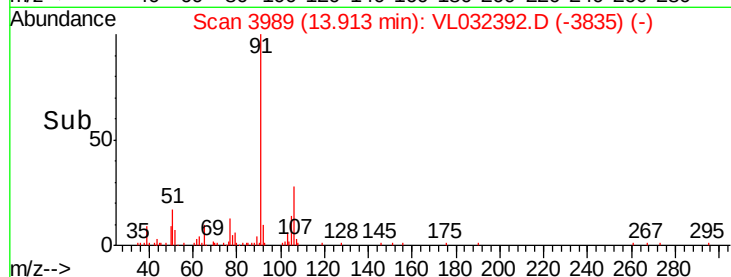
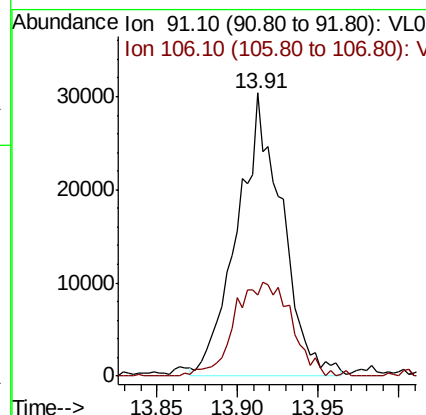
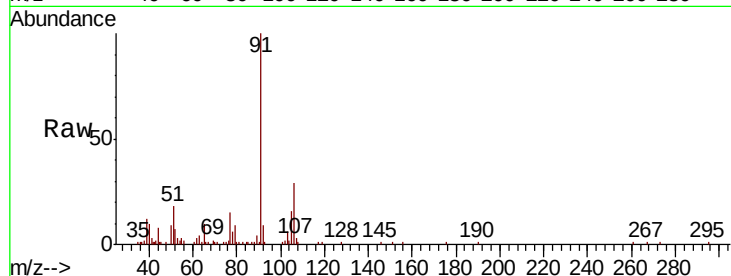
#60
o-Xylene
Concen: 0.17 ppbv m
RT: 13.91 min Scan# 3989
Delta R.T. -0.01 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Instrument :
MSVOA_L
ClientSampleId :
SG10-MIVIDL

Tot Ion	Ratio	Lower	Upper
91	100		
106	42.1	22.3	66.8

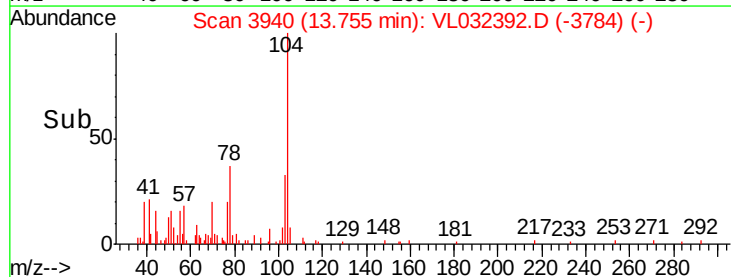
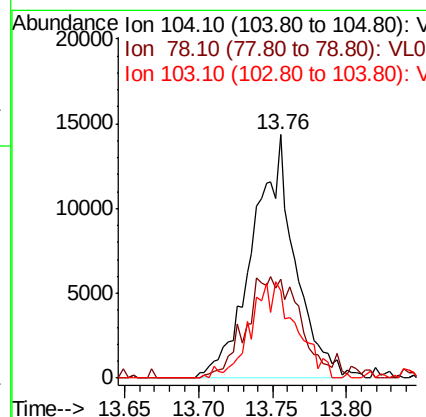
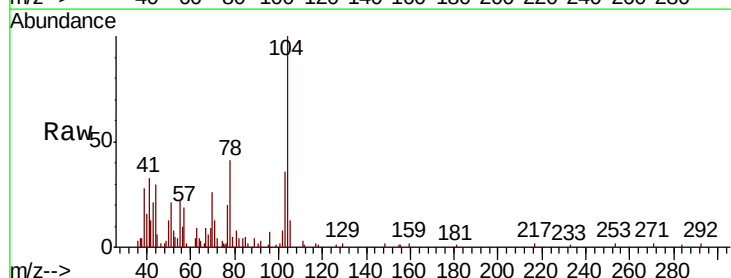
Manual Integrations
APPROVED

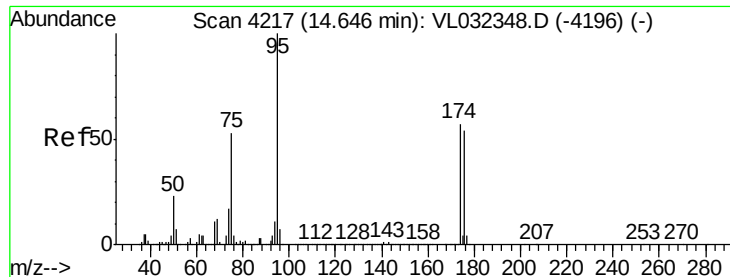
MMDadoda
8/20/2018 3:11:56 PM



#61
Styrene
Concen: 0.12 ppbv m
RT: 13.76 min Scan# 3940
Delta R.T. 0.00 min
Lab File: VL032392.D
Acq: 17 Aug 2018 1:03

Tgt Ion	Ratio	Lower	Upper
104	100		
78	55.7	42.6	64.0
103	0.0	38.0	57.0





#68

1-Bromo-4-Fluorobenzene

Concen: 10.19 ppbv

RT: 14.64 min Scan# 4216

Delta R.T. -0.00 min

Lab File: VL032392.D

Acq: 17 Aug 2018 1:03

Instrument :

MSVOA_L

ClientSampleId :

SG10-MIVIDL

Tot Ion: 95 Resp: 2703960

Ion Ratio Lower Upper

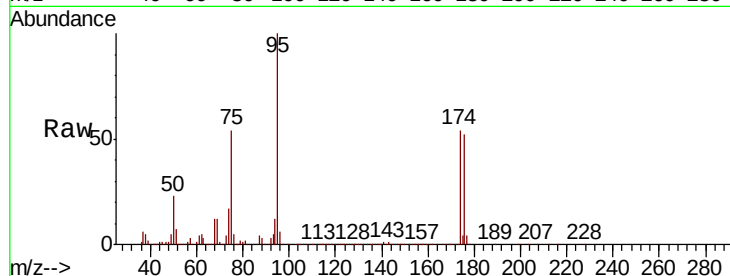
95 100

174 56.7 46.2 69.4

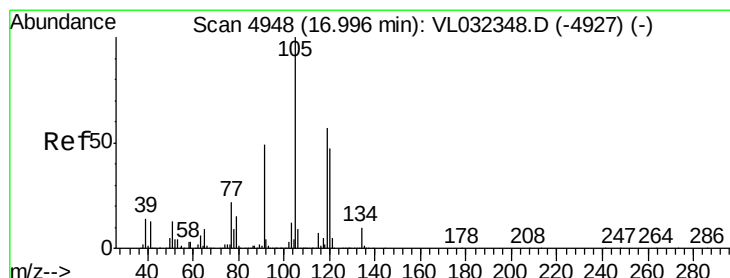
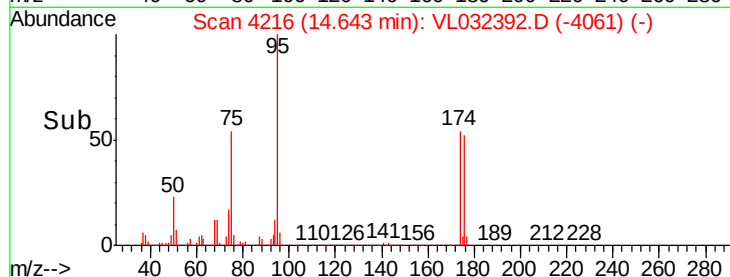
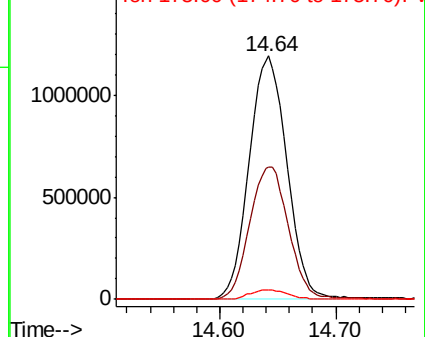
175 3.9 3.4 5.0

Manual Integrations
APPROVED

MMDadoda
8/20/2018 3:11:56 PM



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



#74

1,2,4-Trimethylbenzene

Concen: 0.17 ppbv

RT: 17.00 min Scan# 4948

Delta R.T. 0.00 min

Lab File: VL032392.D

Acq: 17 Aug 2018 1:03

Tgt Ion:105 Resp: 66853

Ion Ratio Lower Upper

105 100

120 36.3 37.6 56.4#

91 15.8 39.9 59.9#

77 11.3 17.8 26.8#

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

