

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111418\
 Data File : VL032762.D
 Acq On : 14 Nov 2018 17:07
 Operator : SY/AP
 Sample : J5896-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
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MMDadoda
 11/16/2018 1:30:07 PM

Quant Time: Nov 15 06:24:50 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 14 07:00:23 2018
 QLast Update : Wed Nov 14 07:00:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1384323	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	3423725	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	3132607	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.58	95	2275073	9.71	ppbv	-0.01	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.10%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	100560	0.505	ppbv	96
4) Chloromethane	3.17	50	38743	0.637	ppbv	98
9) Propene	3.05	41	98856	2.251	ppbv #	80
11) Trichlorofluoromethane	4.01	101	42965	0.229	ppbv	95
13) Ethanol	3.66	45	962724	66.923	ppbv	99
15) Acetone	3.90	43	1003629	7.939	ppbv	98
19) Isopropyl Alcohol	4.04	45	128896	1.531	ppbv #	1
20) Methylene Chloride	4.41	84	156683	2.394	ppbv	93
26) Hexane	5.78	57	164136m	1.251	ppbv	
29) Chloroform	5.86	83	26639m	0.114	ppbv	
34) 2-Butanone	5.34	43	115761	0.652	ppbv	98
35) Carbon Tetrachloride	7.14	117	18992m	0.069	ppbv	
36) Benzene	7.01	78	137684	0.505	ppbv	95
44) 2,2,4-Trimethylpentane	8.00	57	151539	0.333	ppbv #	84
52) Tetrachloroethene	11.38	164	674283	7.110	ppbv	97
53) Toluene	9.95	91	742001	2.609	ppbv	98
58) Ethyl Benzene	12.87	91	57064	0.151	ppbv	89
59) m/p-Xylene	13.13	91	169231m	0.504	ppbv	
60) o-Xylene	13.85	91	72582	0.215	ppbv	98
61) Styrene	13.69	104	38117	0.174	ppbv	95
74) 1,2,4-Trimethylbenzene	16.93	105	90349	0.233	ppbv #	61

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

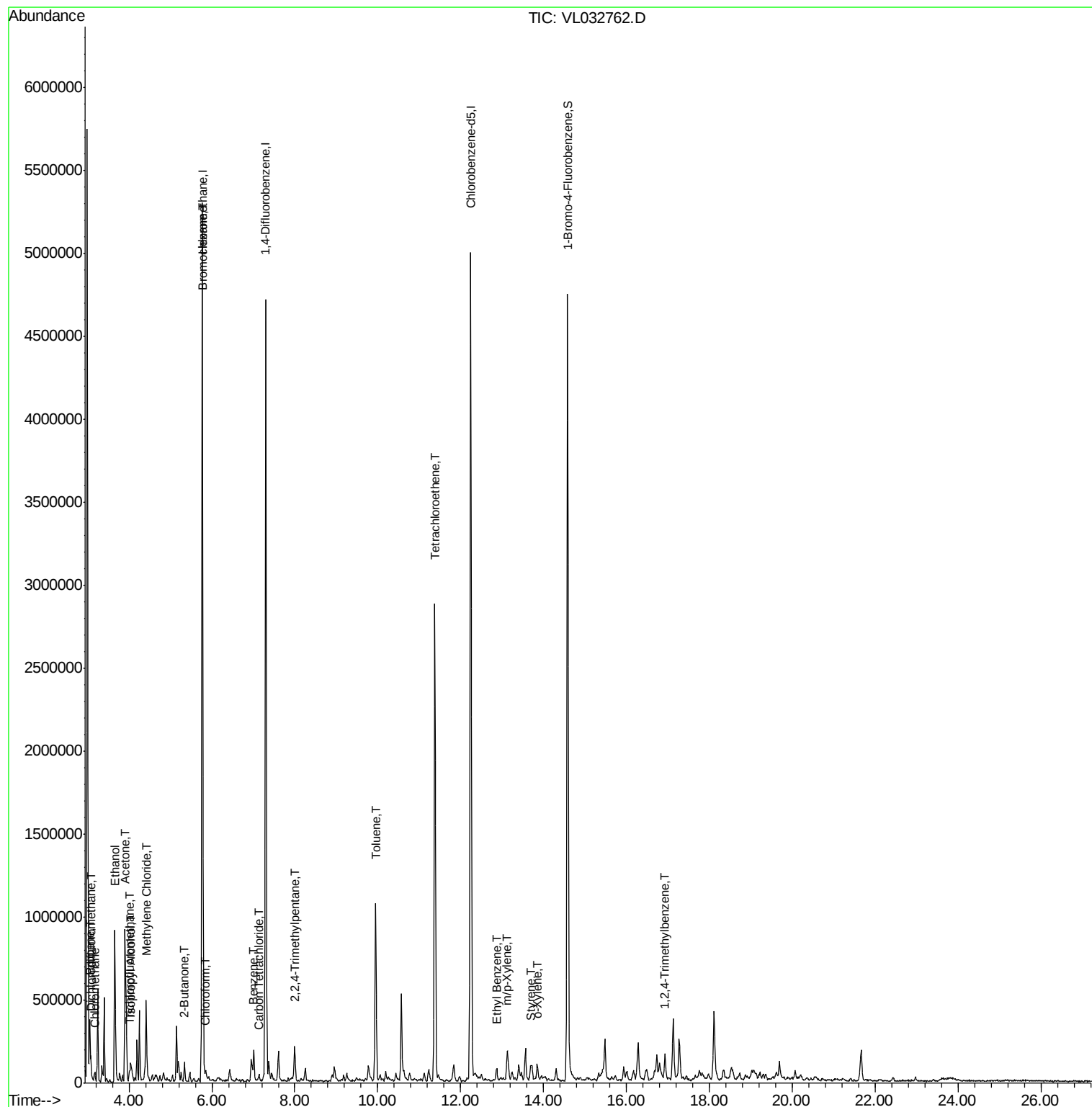
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111418\
Data File : VL032762.D
Acq On : 14 Nov 2018 17:07
Operator : SY/AP
Sample : J5896-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

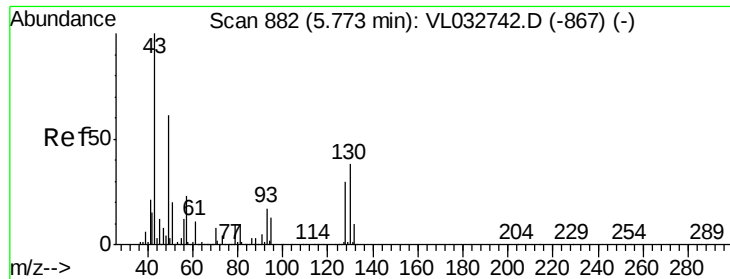
Instrument :
MSVOA_L
ClientSampleId :
IA1

Manual Integrations
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Quant Time: Nov 15 06:24:50 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111418AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 14 07:00:23 2018
Response via : Initial Calibration





#1

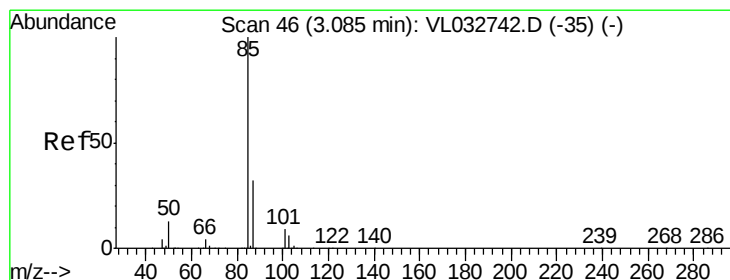
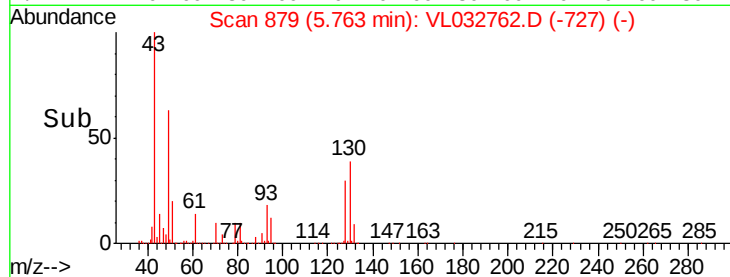
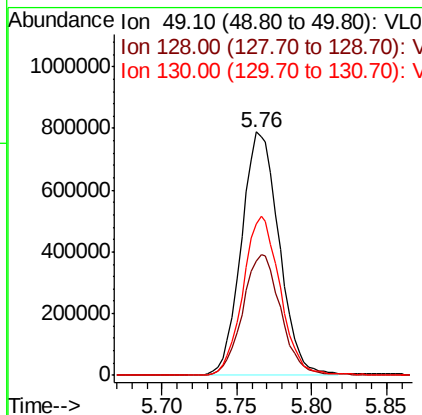
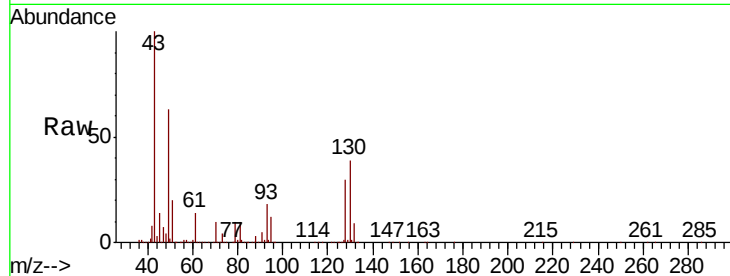
Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 879
 Delta R.T. -0.01 min
 Lab File: VL032762.D
 Acq: 14 Nov 2018 17:07

Instrument :
 MSVOA_L
 ClientSampled :
 IA1

Tot Ion	Ratio	Lower	Upper
49	100		
128	50.6	24.9	74.6
130	65.3	31.4	94.2

Manual Integrations
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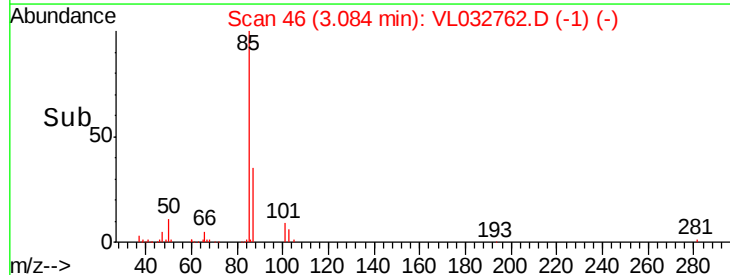
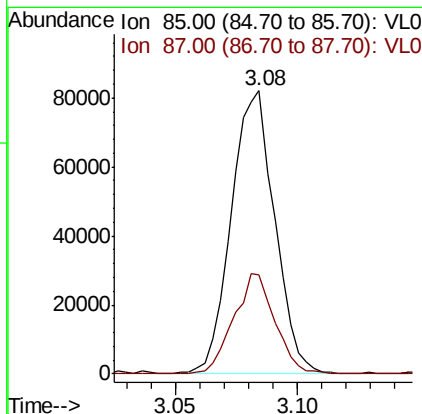
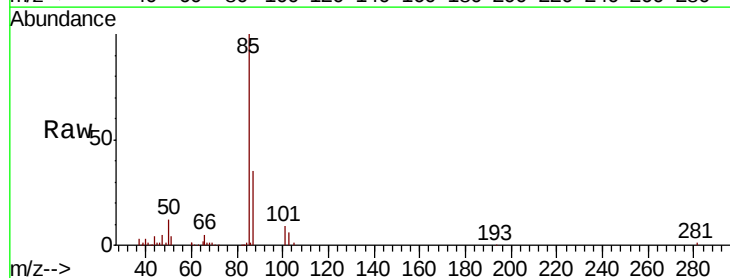
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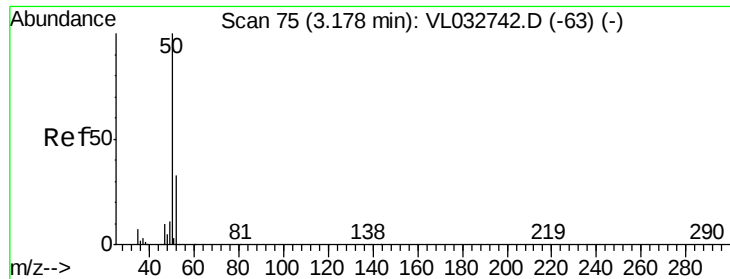


#2

Dichlorodifluoromethane
 Concen: 0.505 ppbv
 RT: 3.08 min Scan# 46
 Delta R.T. -0.00 min
 Lab File: VL032762.D
 Acq: 14 Nov 2018 17:07

Tgt Ion	Ratio	Lower	Upper
85	100		
87	35.0	26.0	39.0





#4

Chloromethane

Concen: 0.637 ppbv

RT: 3.17 min Scan# 74

Delta R.T. -0.00 min

Lab File: VL032762.D

Acq: 14 Nov 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion: 50 Resp: 38743

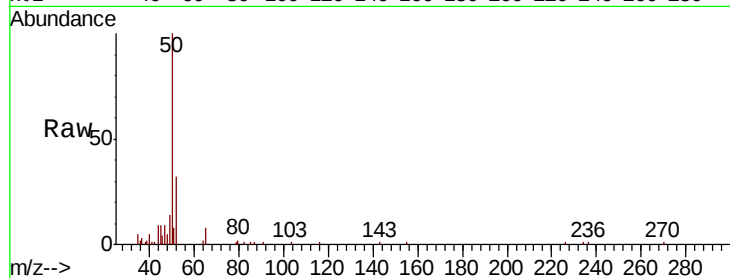
Ion Ratio Lower Upper

50 100

52 32.0 26.6 40.0

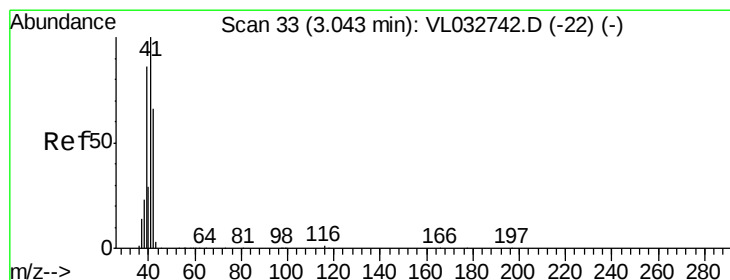
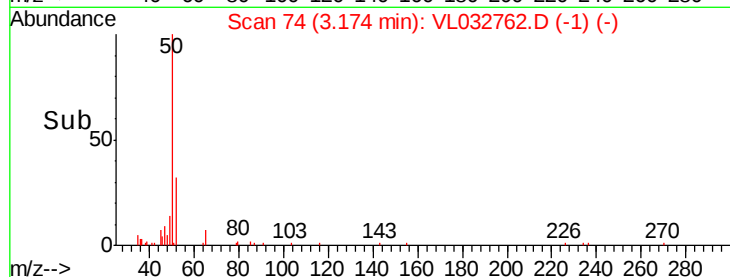
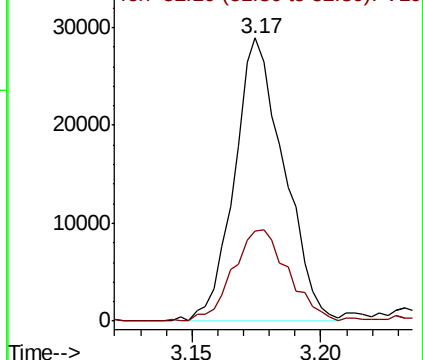
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 2.251 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL032762.D

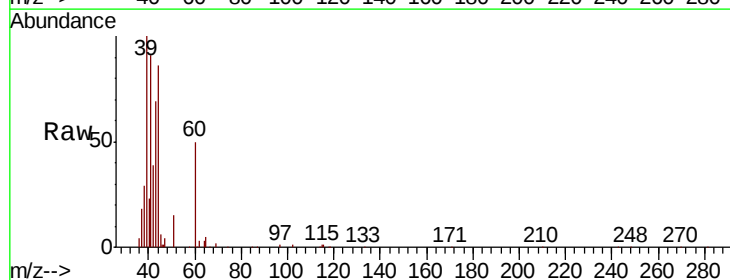
Acq: 14 Nov 2018 17:07

Tgt Ion: 41 Resp: 98856

Ion Ratio Lower Upper

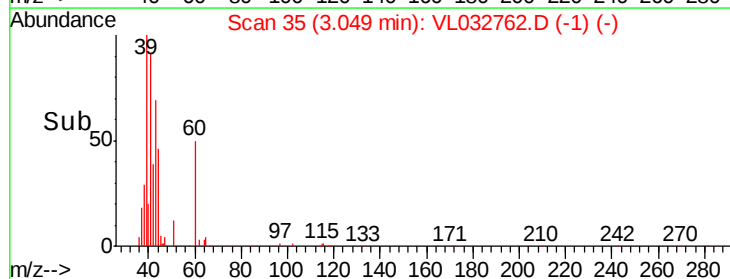
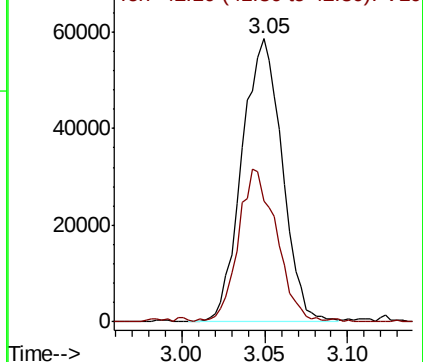
41 100

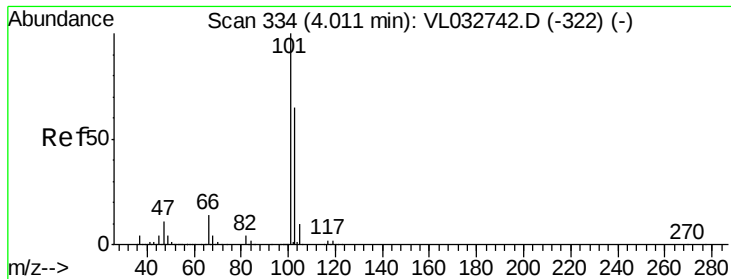
42 52.7 55.0 82.6#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





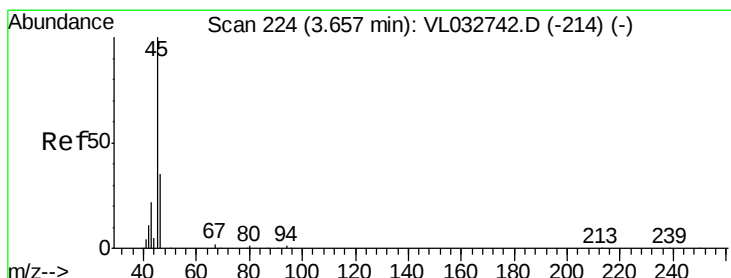
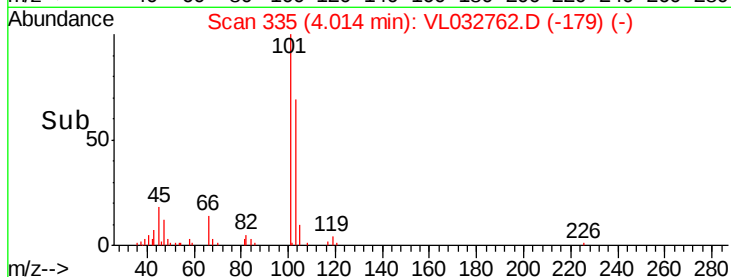
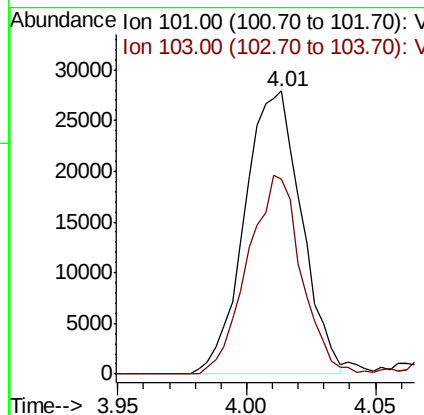
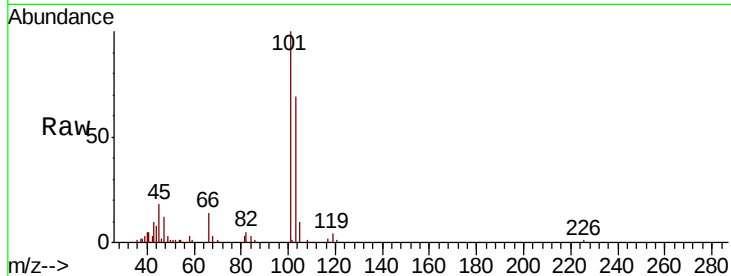
#11
 Trichlorofluoromethane
 Concen: 0.229 ppbv
 RT: 4.01 min Scan# 335
 Delta R.T. 0.00 min
 Lab File: VL032762.D
 Acq: 14 Nov 2018 17:07

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tot Ion:101 Resp: 42965
 Ion Ratio Lower Upper
 101 100
 103 68.8 51.6 77.4

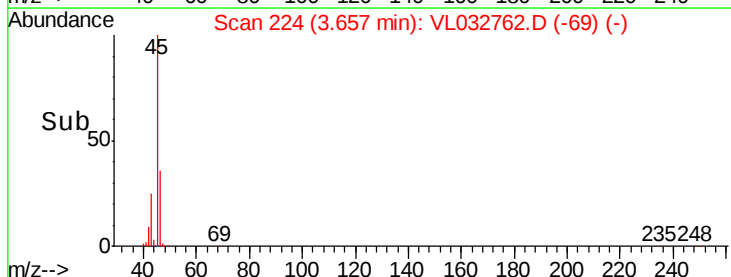
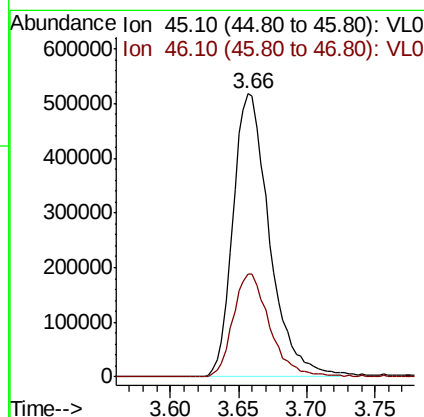
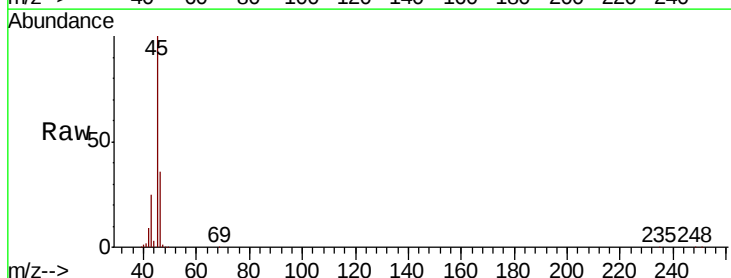
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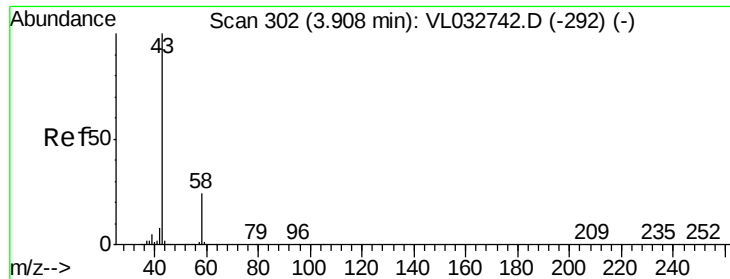
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#13
 Ethanol
 Concen: 66.923 ppbv
 RT: 3.66 min Scan# 224
 Delta R.T. -0.00 min
 Lab File: VL032762.D
 Acq: 14 Nov 2018 17:07

Tgt Ion: 45 Resp: 962724
 Ion Ratio Lower Upper
 45 100
 46 36.9 14.5 57.9





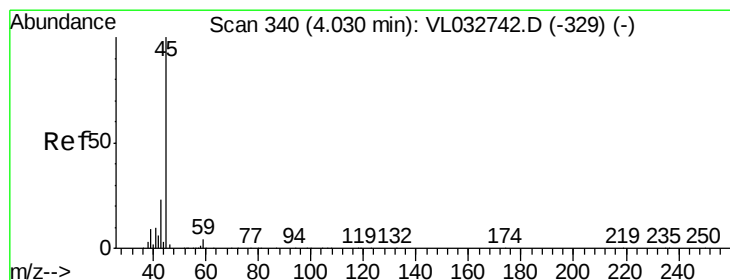
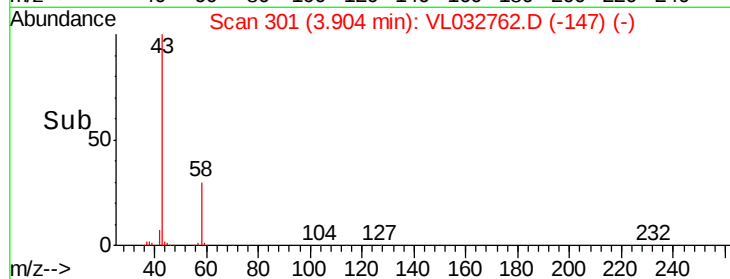
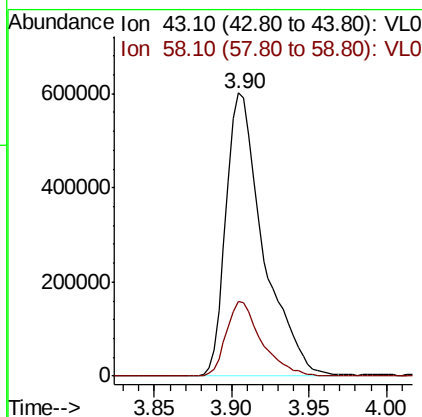
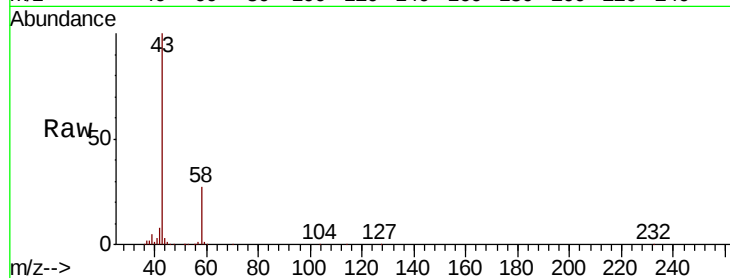
#15
Acetone
Concen: 7.939 ppbv
RT: 3.90 min Scan# 301
Delta R.T. -0.00 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion: 43 Resp: 1003629
Ion Ratio Lower Upper
43 100
58 25.3 21.1 31.7

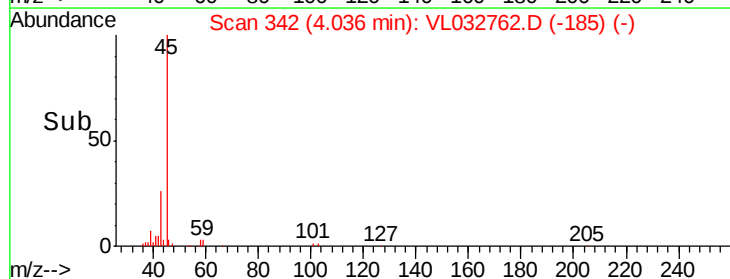
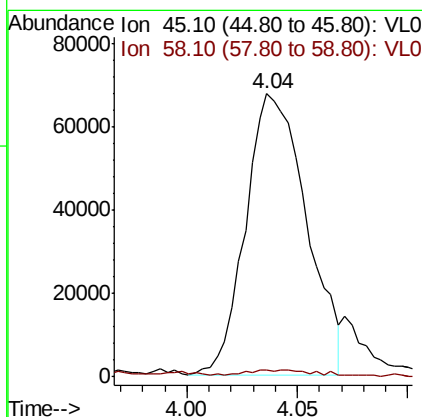
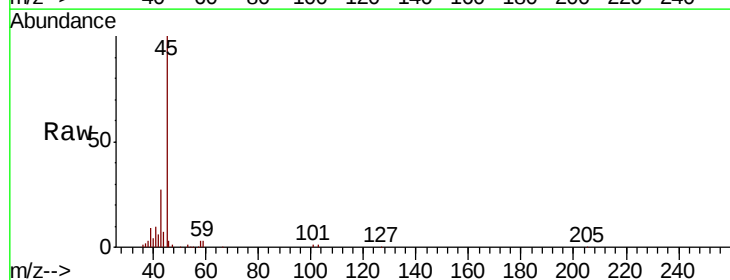
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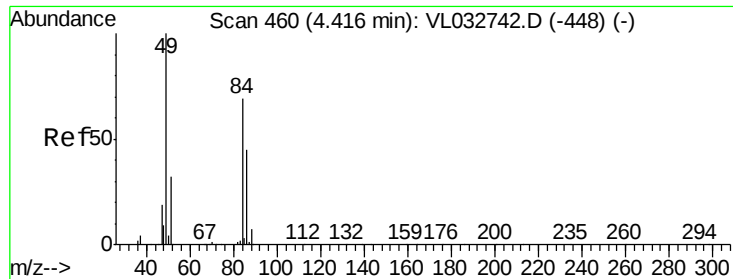
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#19
Isopropyl Alcohol
Concen: 1.531 ppbv
RT: 4.04 min Scan# 342
Delta R.T. 0.01 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Tgt Ion: 45 Resp: 128896
Ion Ratio Lower Upper
45 100
58 195.6 1.4 2.0#





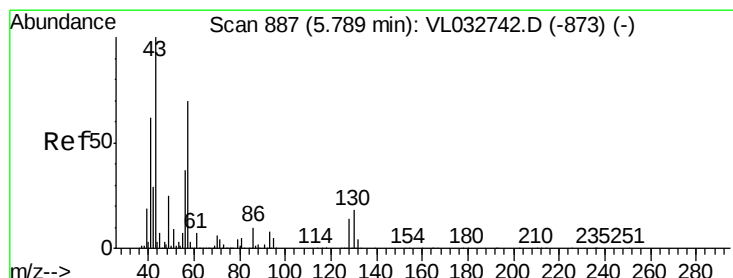
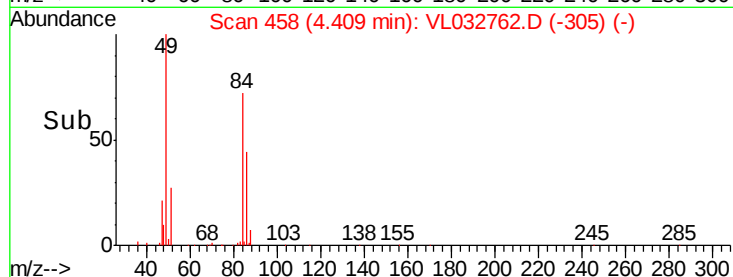
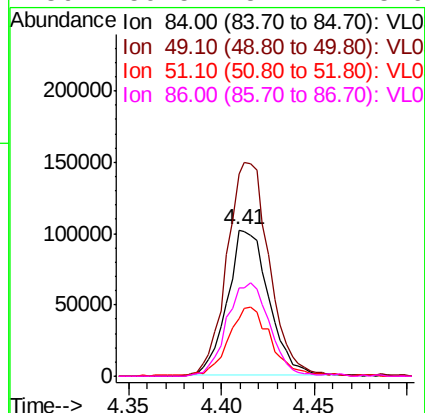
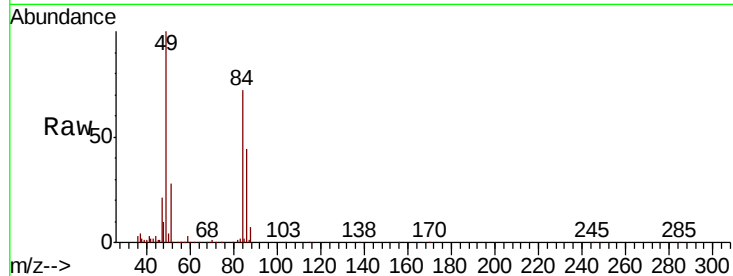
#20
Methvlene Chloride
Concen: 2.394 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.01 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion:	84	Resp:	156683
Ion	Ratio	Lower	Upper
84	100		
49	138.0	115.8	173.6
51	38.6	36.9	55.3
86	59.5	52.4	78.6

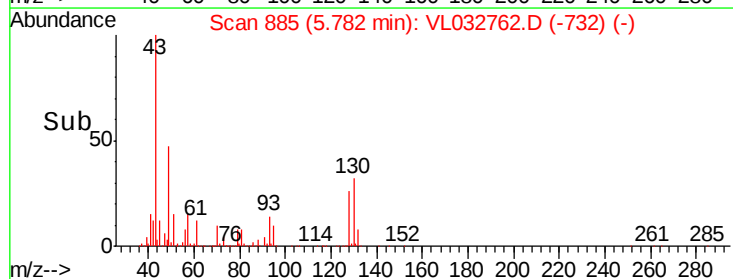
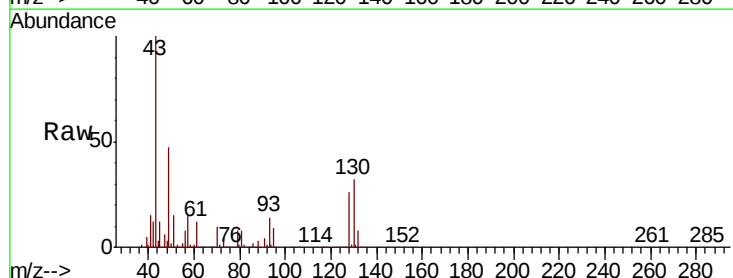
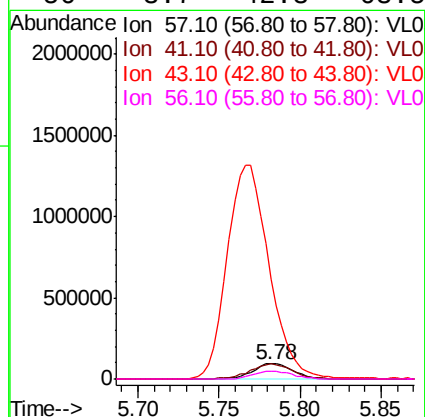
Manual Integrations
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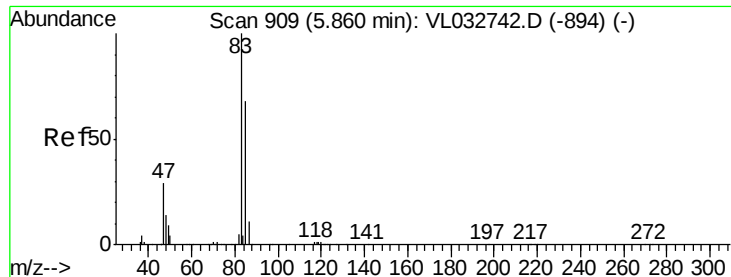
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#26
Hexane
Concen: 1.251 ppbv m
RT: 5.78 min Scan# 885
Delta R.T. -0.01 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Tgt Ion:	57	Resp:	164136
Ion	Ratio	Lower	Upper
57	100		
41	0.0	70.3	105.5#
43	0.0	174.0	261.0#
56	3.7	42.3	63.5#





#29

Chloroform

Concen: 0.114 ppbv m

RT: 5.86 min Scan# 908

Delta R.T. -0.00 min

Lab File: VL032762.D

Acq: 14 Nov 2018 17:07

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion: 83 Resp: 26639

Ion Ratio Lower Upper

83 100

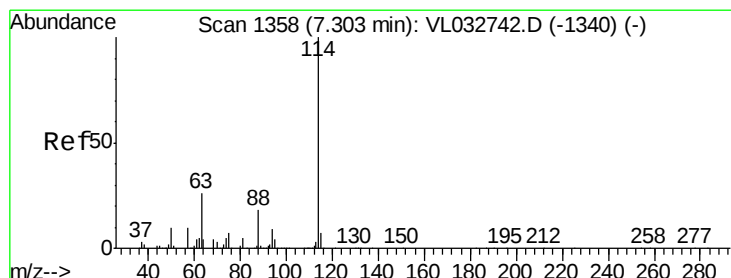
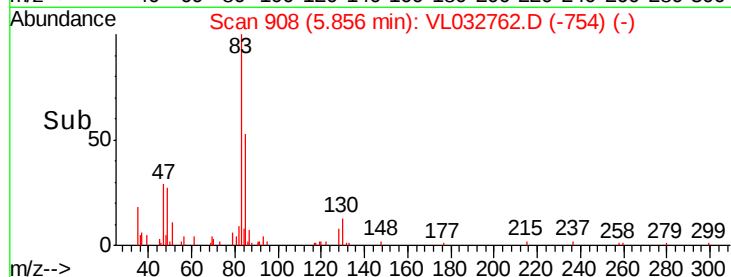
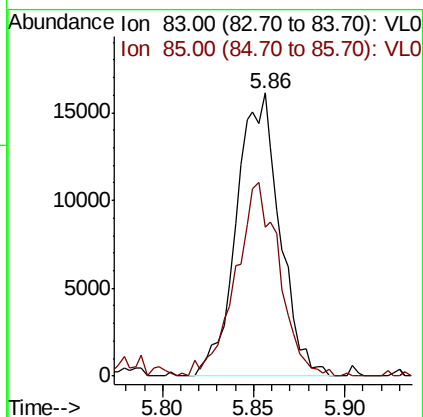
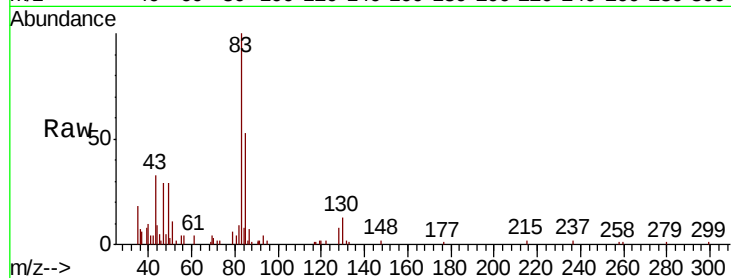
85 52.7 54.2 81.4#

Manual Integrations

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#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.30 min Scan# 1356

Delta R.T. -0.01 min

Lab File: VL032762.D

Acq: 14 Nov 2018 17:07

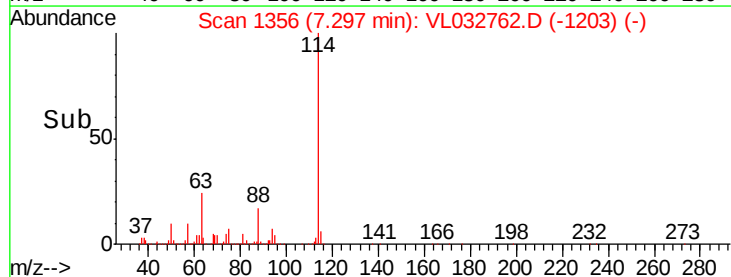
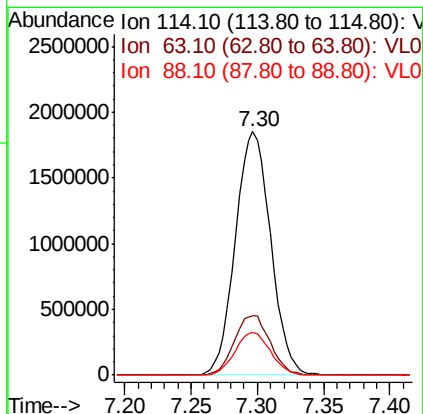
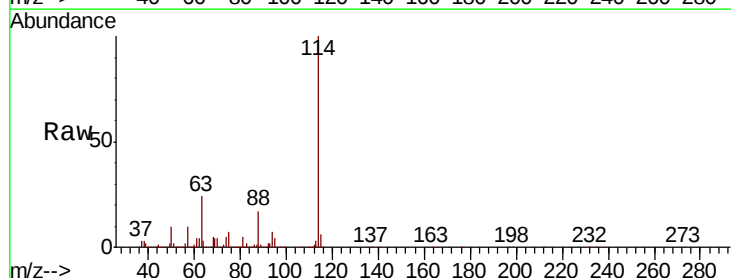
Tgt Ion: 114 Resp: 3423725

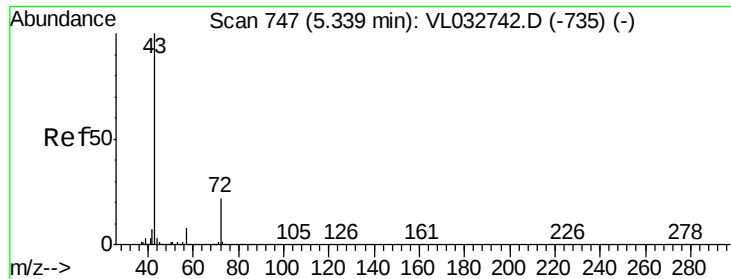
Ion Ratio Lower Upper

114 100

63 24.9 20.9 31.3

88 17.6 14.4 21.6





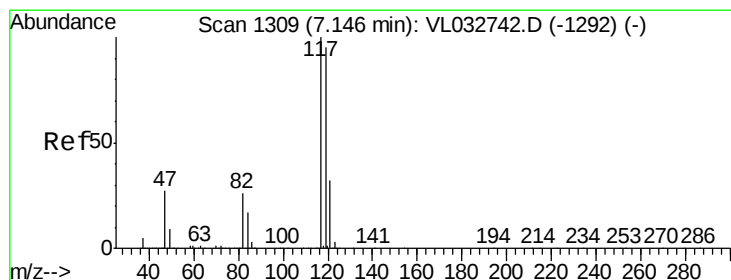
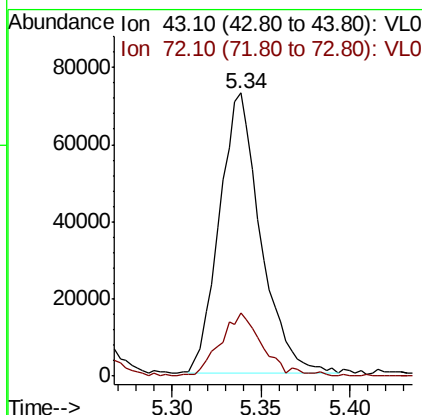
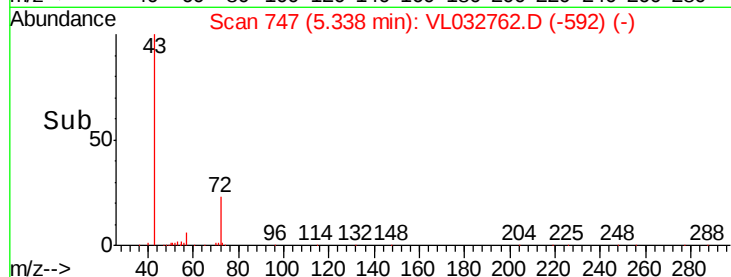
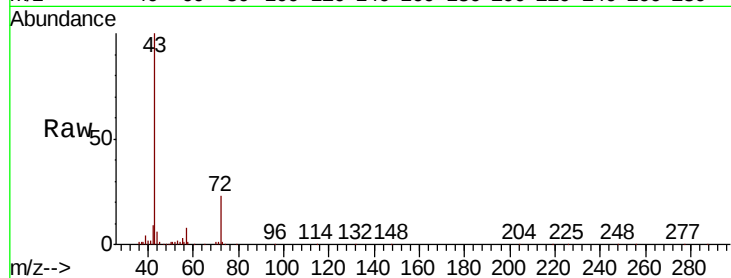
#34
2-Butanone
Concen: 0.652 ppbv
RT: 5.34 min Scan# 747
Delta R.T. -0.00 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion	Ratio	Lower	Upper
43	100		
72	24.0	18.4	27.6

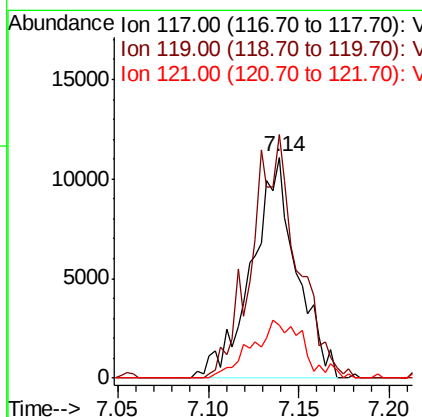
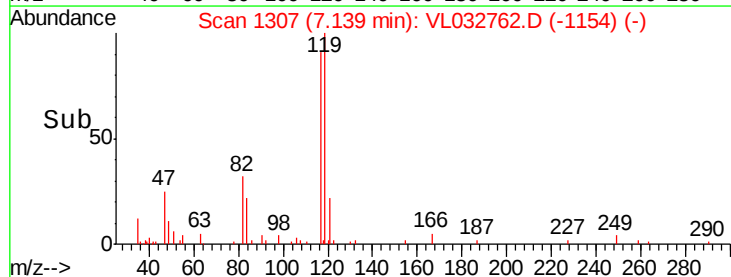
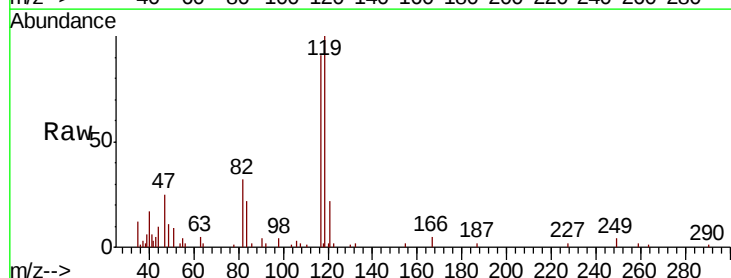
Manual Integrations
APPROVED

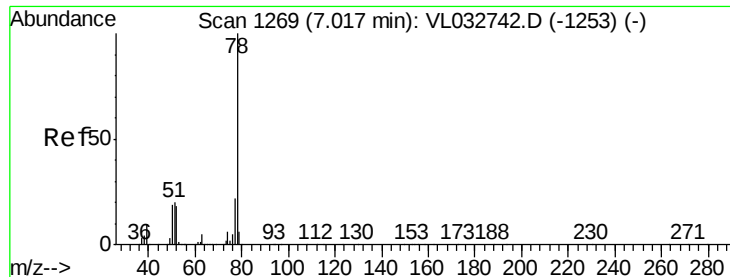
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#35
Carbon Tetrachloride
Concen: 0.069 ppbv m
RT: 7.14 min Scan# 1307
Delta R.T. -0.01 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Tgt Ion	Ratio	Lower	Upper
117	100		
119	110.1	76.1	114.1
121	24.0	25.4	38.0#





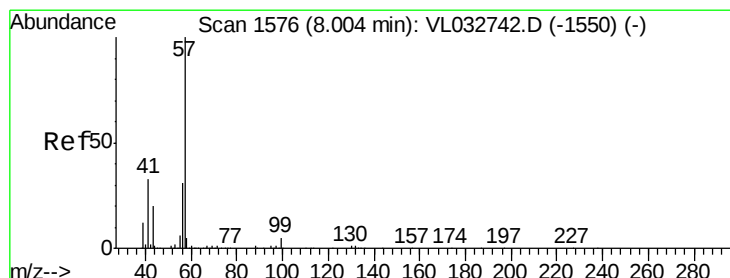
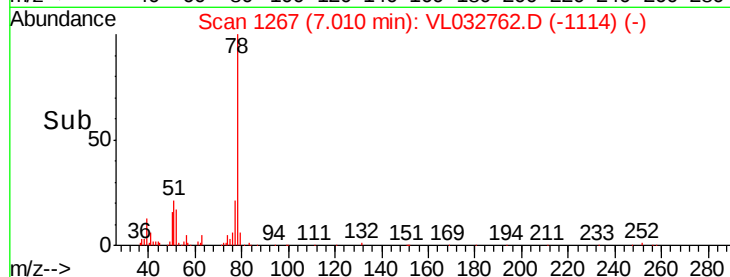
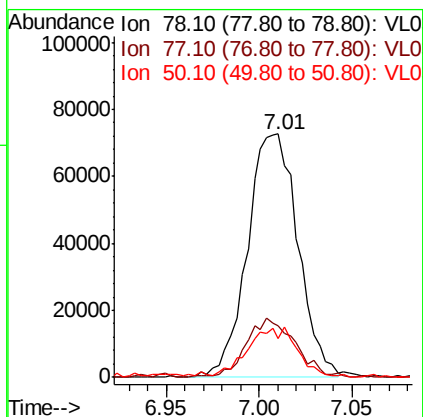
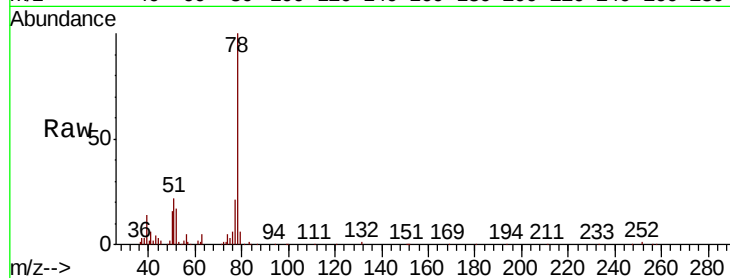
#36
Benzene
Concen: 0.505 ppbv
RT: 7.01 min Scan# 1267
Delta R.T. -0.01 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
78	100		
77	21.2	17.8	26.8
50	15.6	15.4	23.0

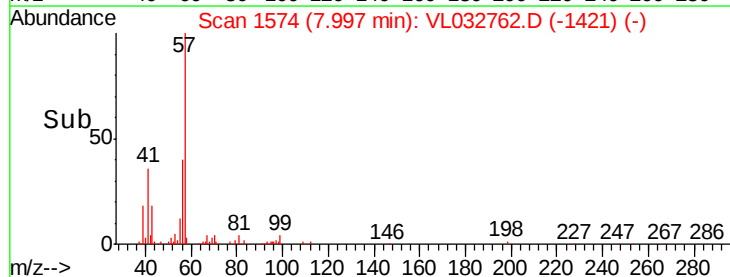
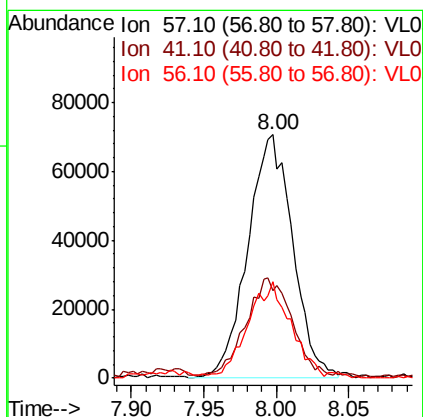
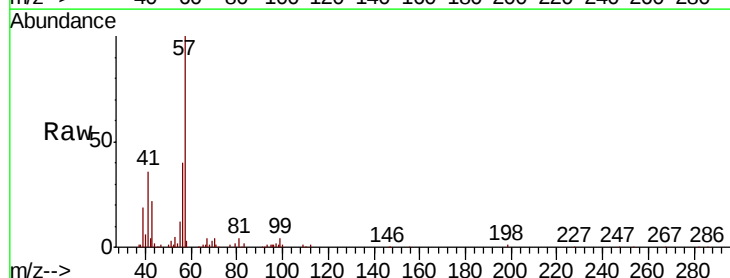
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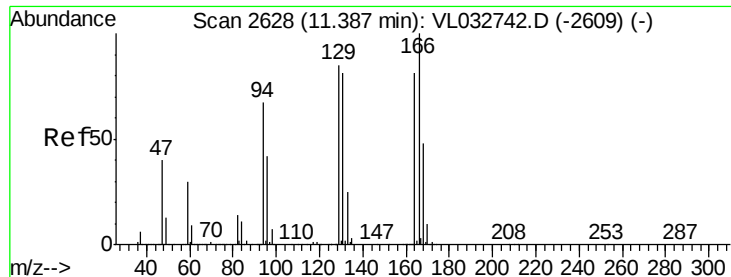
MMDadoda
11/16/2018 1:30:07 PM



#44
2,2,4-Trimethylpentane
Concen: 0.333 ppbv
RT: 8.00 min Scan# 1574
Delta R.T. -0.01 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Tgt Ion	Ratio	Lower	Upper
57	100		
41	43.4	26.6	39.8#
56	38.6	24.8	37.2#





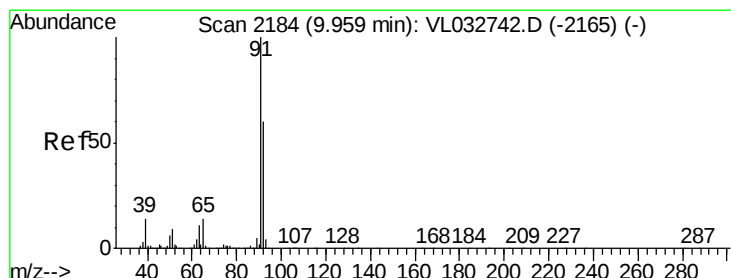
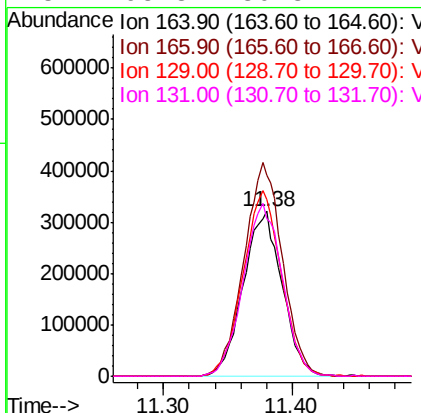
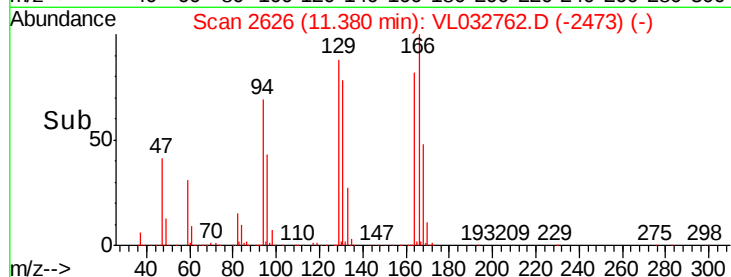
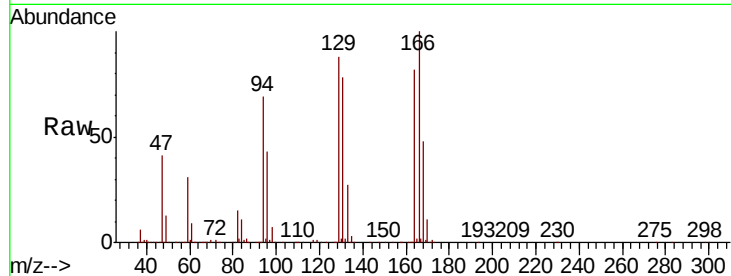
#52
Tetrachloroethene
Concen: 7.110 ppbv
RT: 11.38 min Scan# 2626
Delta R.T. -0.01 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
164	100		
166	121.4	99.3	148.9
129	106.9	83.9	125.9
131	95.3	80.8	121.2

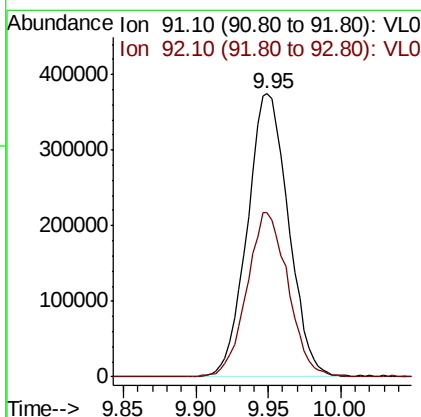
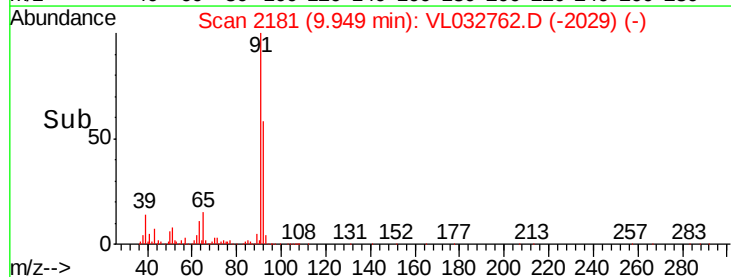
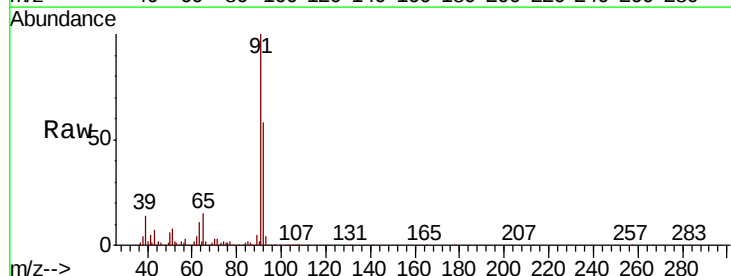
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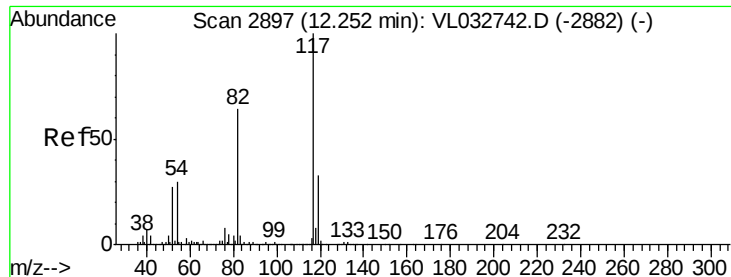
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#53
Toluene
Concen: 2.609 ppbv
RT: 9.95 min Scan# 2181
Delta R.T. -0.01 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.2	47.9	71.9





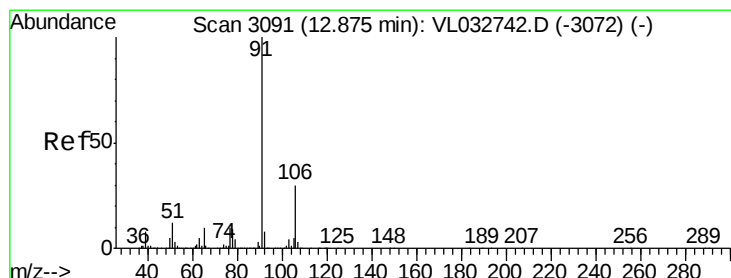
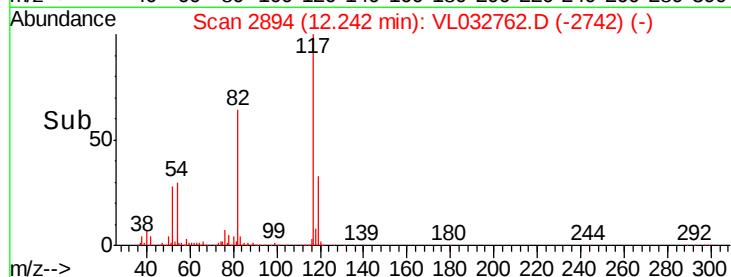
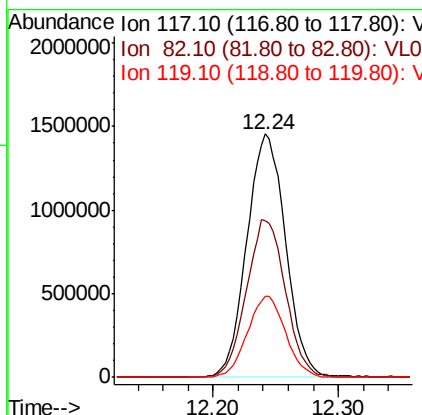
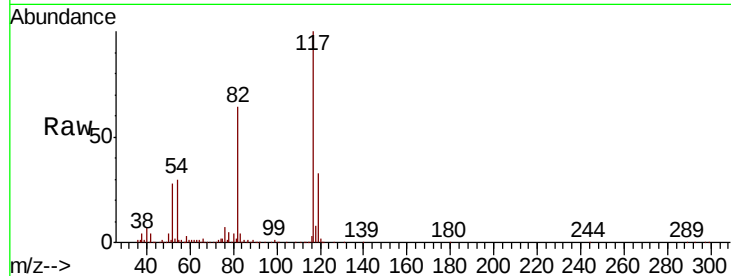
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2894
Delta R.T. -0.01 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion	Ratio	Lower	Upper
117	100		
82	65.1	51.0	76.6
119	32.8	28.0	42.0

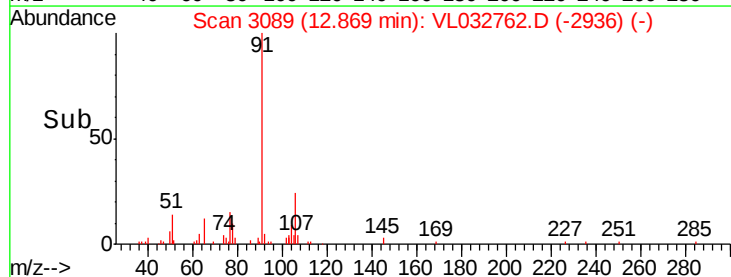
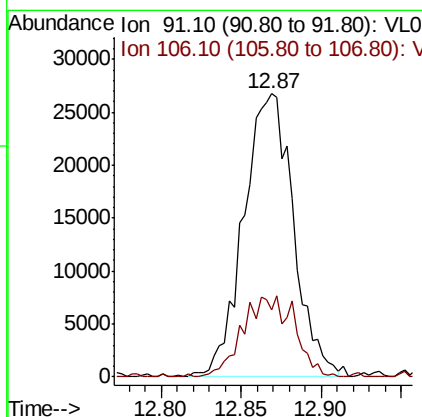
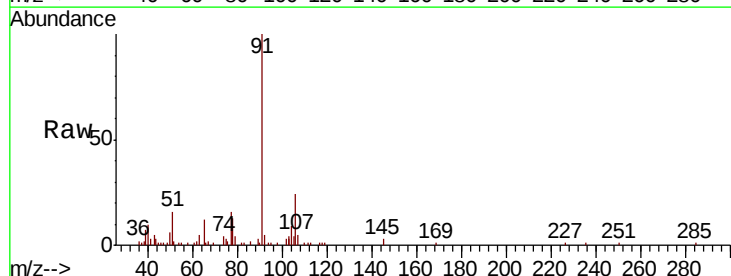
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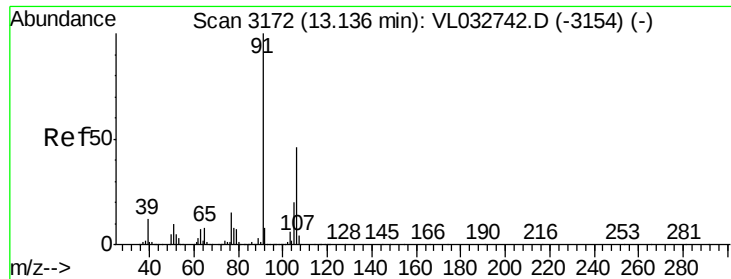
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#58
Ethyl Benzene
Concen: 0.151 ppbv
RT: 12.87 min Scan# 3089
Delta R.T. -0.01 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Tgt Ion	Ratio	Lower	Upper
91	100		
106	23.7	23.6	35.4





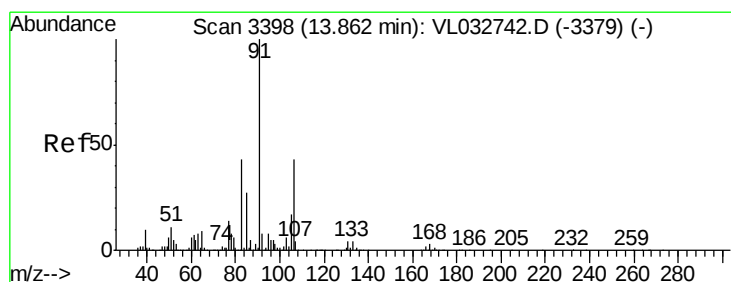
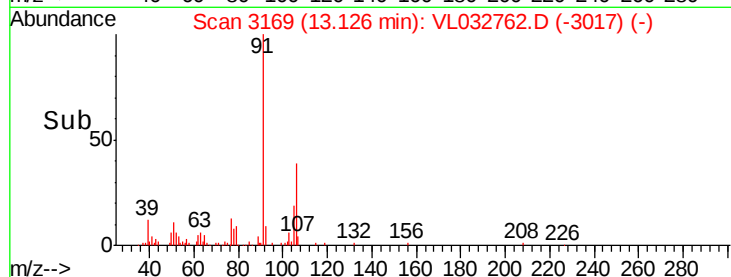
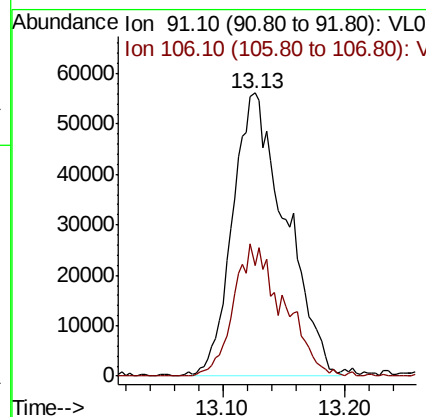
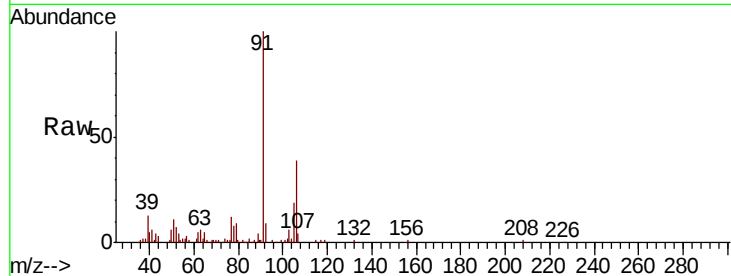
#59
m/p-Xylene
Concen: 0.504 ppbv m
RT: 13.13 min Scan# 3169
Delta R.T. -0.01 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	91	106	Ratio	Lower	Upper
169231	100	43.7		36.1	54.1

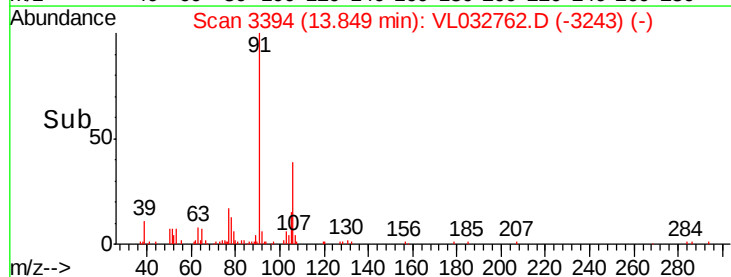
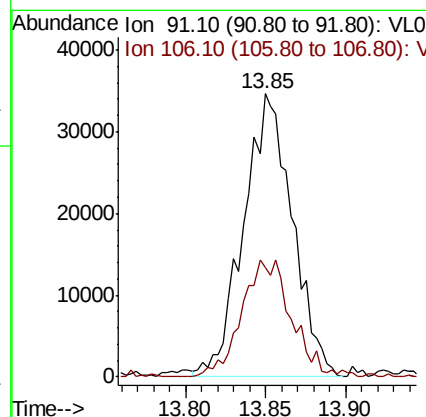
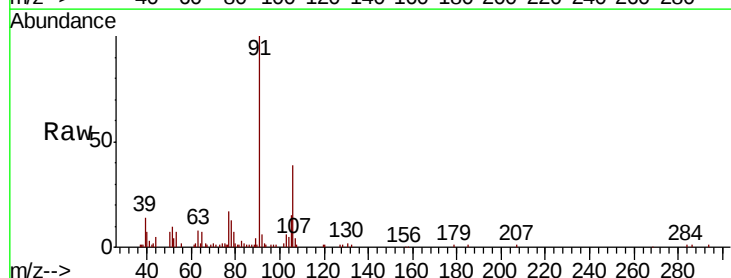
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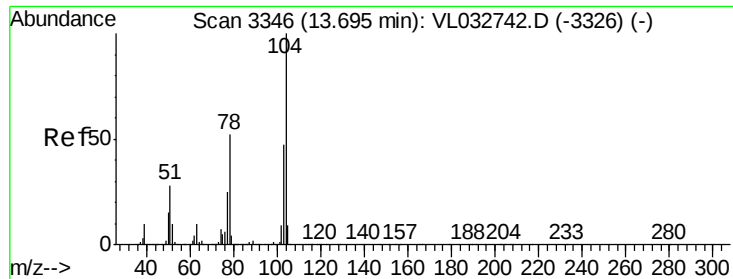
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#60
o-Xylene
Concen: 0.215 ppbv
RT: 13.85 min Scan# 3394
Delta R.T. -0.01 min
Lab File: VL032762.D
Acq: 14 Nov 2018 17:07

Tgt Ion	91	106	Ratio	Lower	Upper
72582	100	42.5		21.9	65.7





#61

Stvrene

Concen: 0.174 ppbv

RT: 13.69 min Scan# 3345

Delta R.T. -0.00 min

Lab File: VL032762.D

Acq: 14 Nov 2018 17:07

Instrument :

MSVOA_L

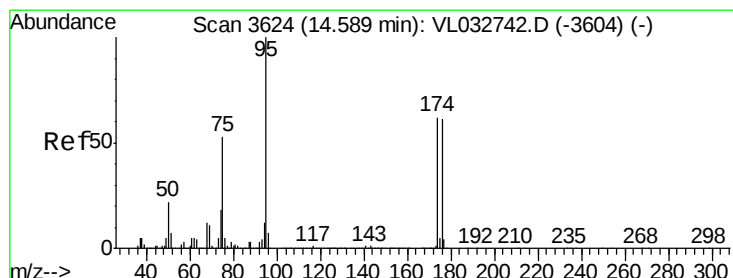
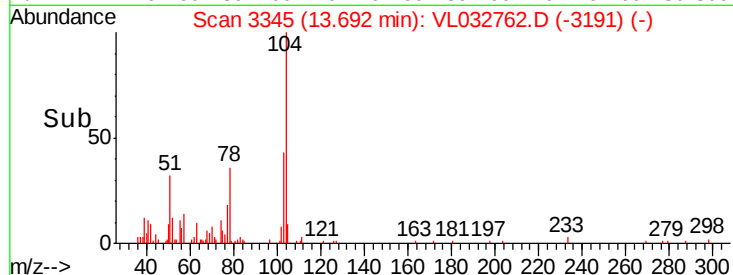
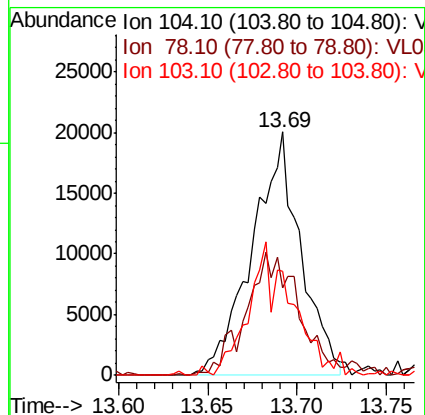
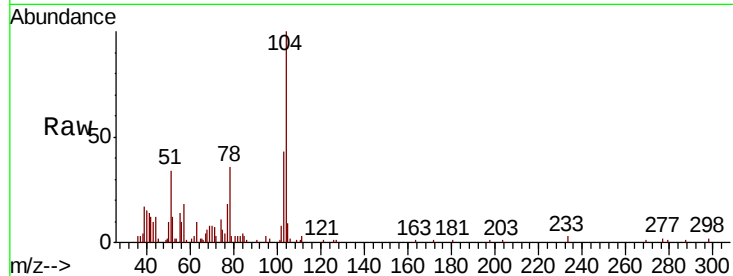
ClientSampled :

IA1

Tot Ion:	104	Resp:	38117
Ion Ratio	Lower	Upper	
104	100		
78	57.0	42.2	63.4
103	50.6	38.2	57.2

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#68

1-Bromo-4-Fluorobenzene

Concen: 9.710 ppbv

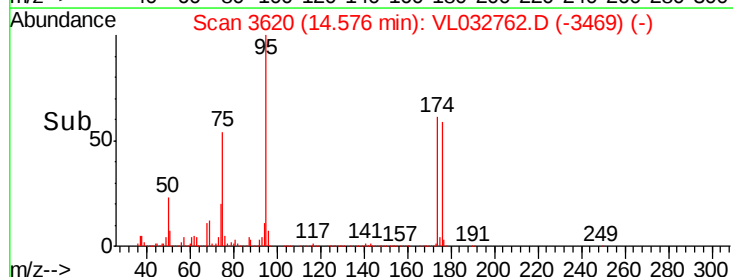
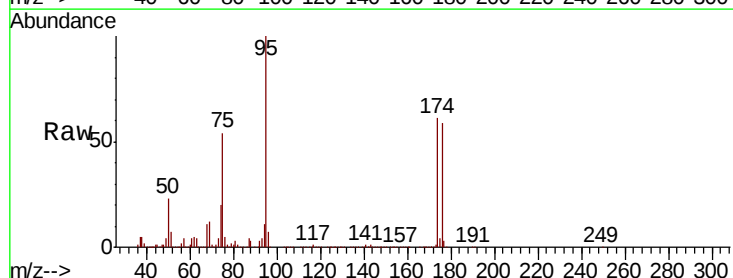
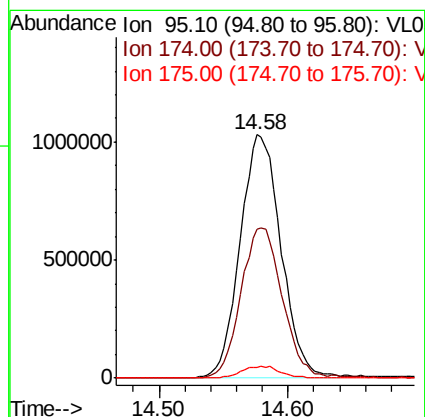
RT: 14.58 min Scan# 3620

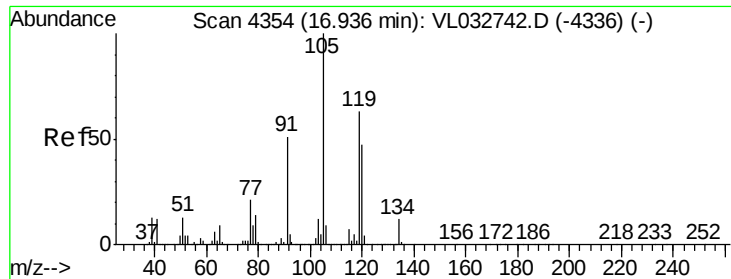
Delta R.T. -0.01 min

Lab File: VL032762.D

Acq: 14 Nov 2018 17:07

Tgt Ion:	95	Resp:	2275073
Ion Ratio	Lower	Upper	
95	100		
174	63.6	50.7	76.1
175	4.7	3.8	5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.233 ppbv
 RT: 16.93 min Scan# 4351
 Delta R.T. -0.01 min
 Lab File: VL032762.D
 Acq: 14 Nov 2018 17:07

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tot Ion:	105	Resp:	90349
Ion Ratio	Lower	Upper	
105	100		
120	31.2	37.6	56.4#
91	9.3	42.5	63.7#
77	13.7	17.4	26.2#

Manual Integrations
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