

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL090518\
 Data File : VL032474.D
 Acq On : 6 Sep 2018 3:11
 Operator : SY/AP
 Sample : J4745-01DL 40X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-6DL

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 10:46:09 AM

Quant Time: Sep 07 08:54:10 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	1516785	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.34	114	3069105	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.29	117	3023240	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.63	95	2324254	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds

						Ovalue
9) Propene	3.07	41	292473m	5.28	ppbv	
10) Heptane	8.29	43	105266	0.53	ppbv	94
13) Ethanol	3.68	45	137556	7.97	ppbv	99
15) Acetone	3.94	43	373798m	2.74	ppbv	
17) tert-Butyl alcohol	4.40	59	178182	8.48	ppbv #	100
26) Hexane	5.82	57	200016m	1.38	ppbv	
34) 2-Butanone	5.37	43	253268	1.24	ppbv	99
36) Benzene	7.05	78	76144	0.29	ppbv	95
50) 4-Methyl-2-Pentanone	8.93	43	100470	0.33	ppbv	99
51) 2-Hexanone	10.32	43	134860	0.68	ppbv #	94
52) Tetrachloroethene	11.43	164	13557m	0.17	ppbv	
53) Toluene	10.00	91	175808	0.64	ppbv	98
58) Ethyl Benzene	12.91	91	50695m	0.14	ppbv	
59) m/p-Xylene	13.17	91	103167m	0.32	ppbv	
60) o-Xylene	13.90	91	39950	0.13	ppbv	90
74) 1,2,4-Trimethylbenzene	16.98	105	87080	0.23	ppbv #	75

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

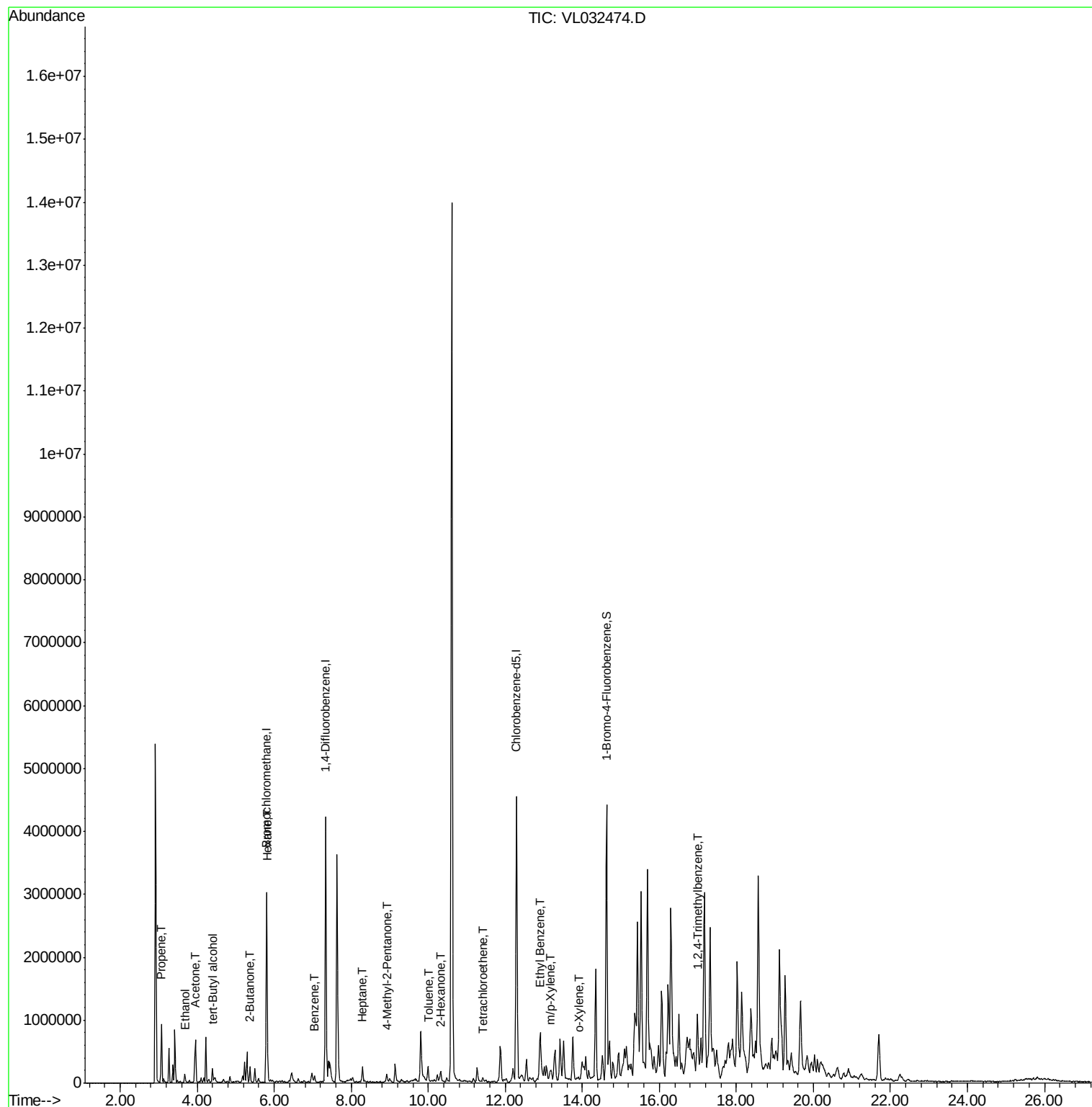
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL090518\
Data File : VL032474.D
Acq On : 6 Sep 2018 3:11
Operator : SY/AP
Sample : J4745-01DL 40X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

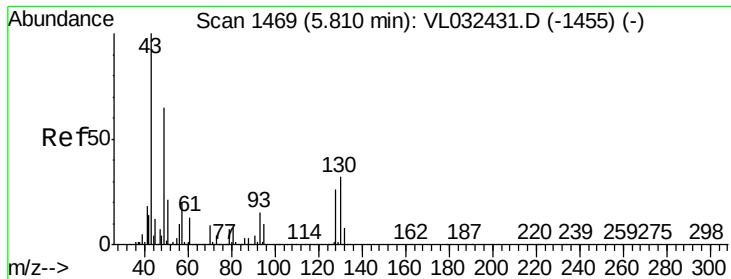
Instrument :
MSVOA_L
ClientSampleId :
VP-6DL

Manual Integrations
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9/7/2018 10:46:09 AM

Quant Time: Sep 07 08:54:10 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL083118AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Aug
QLast Update : Fri Aug 31 21:33:46 2018
Response via : Initial Calibration





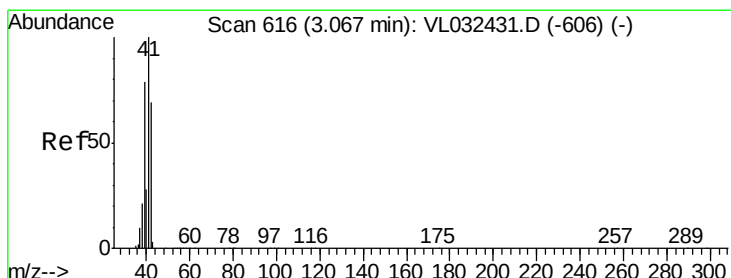
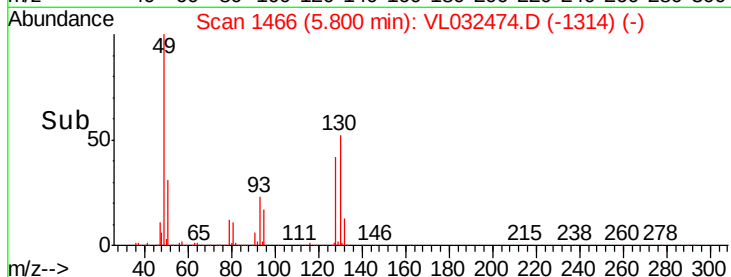
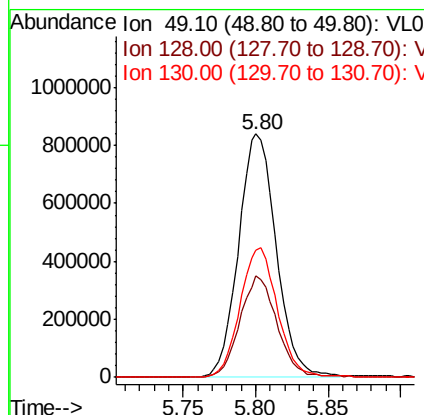
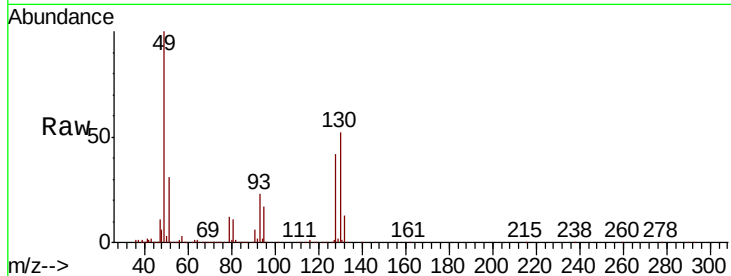
#1
 Bromochloromethane
 Concen: 10.00 ppbv
 RT: 5.80 min Scan# 1466
 Delta R.T. -0.01 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-6DL

Tot Ion: 49 Resp: 1516785
 Ion Ratio Lower Upper
 49 100
 128 41.5 20.7 62.1
 130 53.3 26.6 79.7

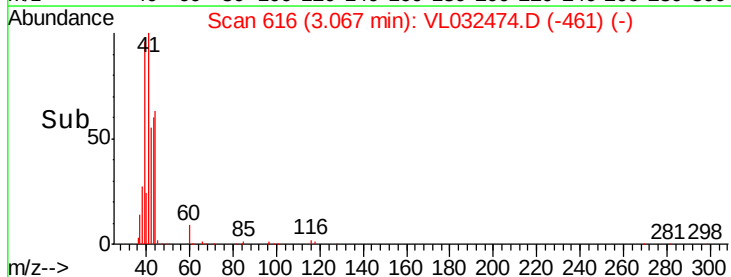
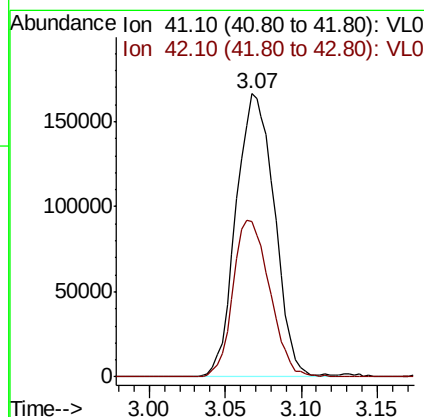
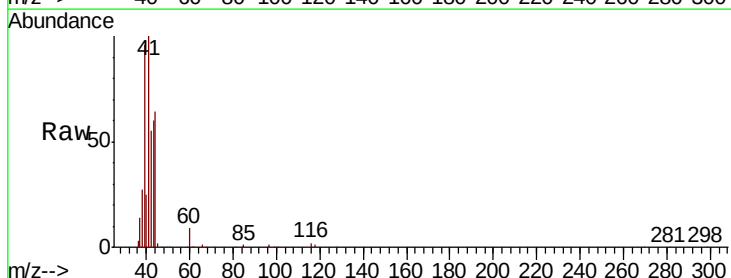
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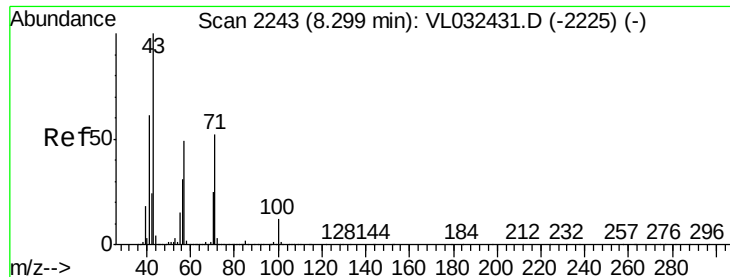
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#9
 Propene
 Concen: 5.28 ppbv m
 RT: 3.07 min Scan# 616
 Delta R.T. -0.00 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

Tgt Ion: 41 Resp: 292473
 Ion Ratio Lower Upper
 41 100
 42 34.3 56.6 84.8#





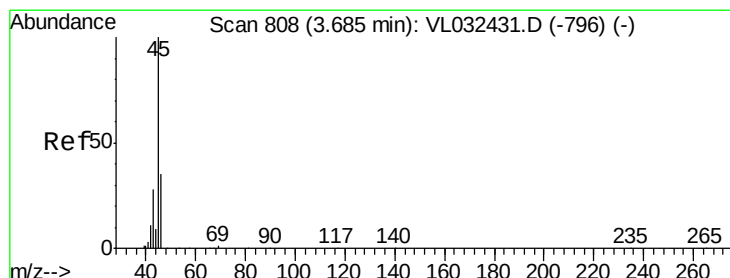
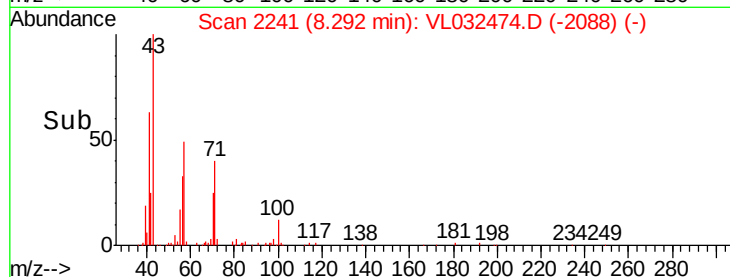
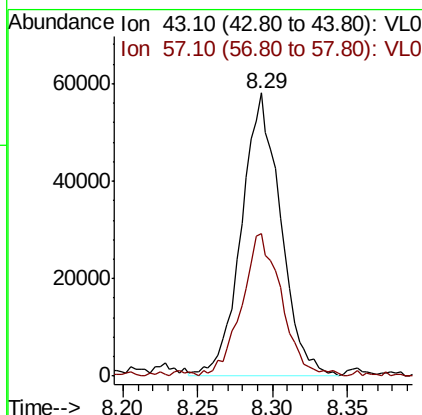
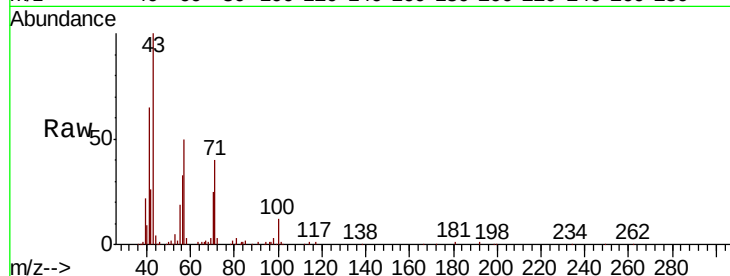
#10
Heptane
Concen: 0.53 ppbv
RT: 8.29 min Scan# 2241
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Instrument :
MSVOA_L
ClientSampleId :
VP-6DL

Tot Ion: 43 Resp: 105266
Ion Ratio Lower Upper
43 100
57 53.7 39.6 59.4

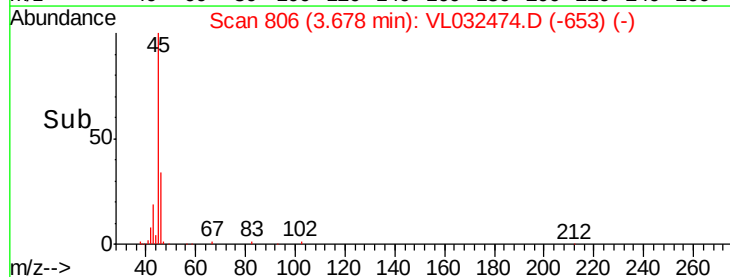
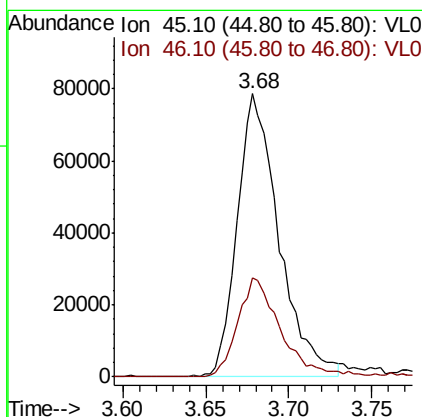
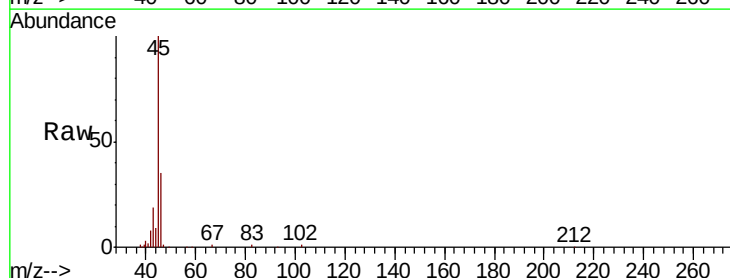
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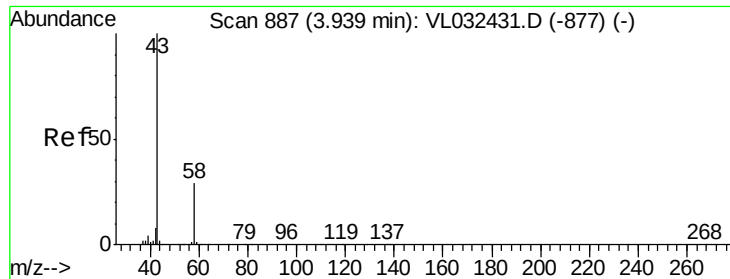
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#13
Ethanol
Concen: 7.97 ppbv
RT: 3.68 min Scan# 806
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Tgt Ion: 45 Resp: 137556
Ion Ratio Lower Upper
45 100
46 36.1 14.2 56.8





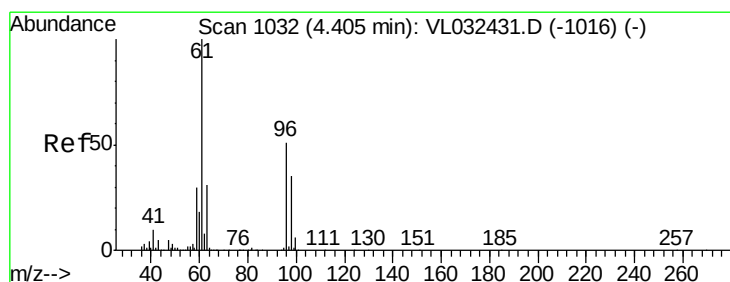
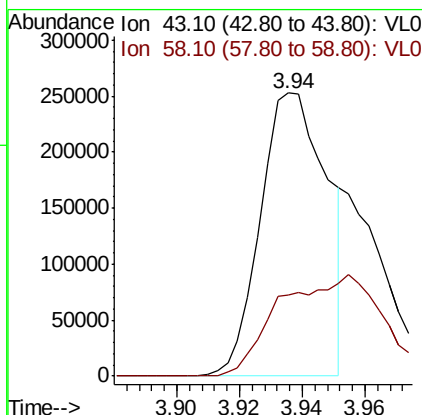
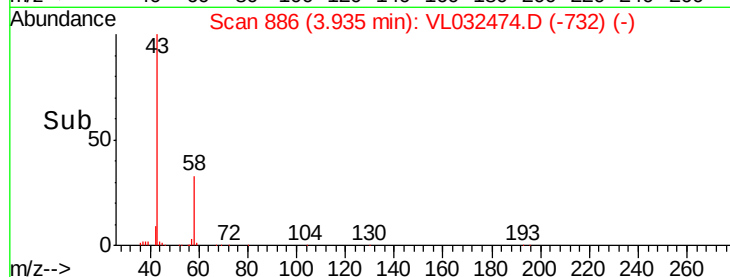
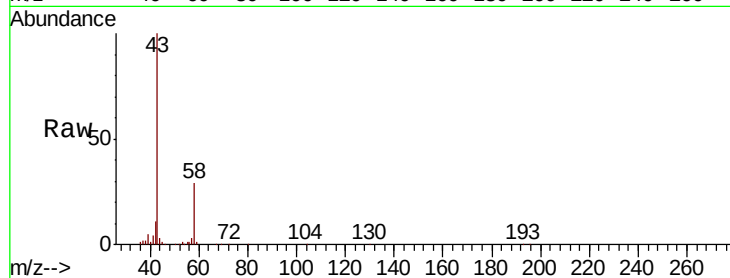
#15
Acetone
Concen: 2.74 ppbv m
RT: 3.94 min Scan# 886
Delta R.T. -0.00 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Instrument :
MSVOA_L
ClientSampled :
VP-6DL

Tot Ion: 43 Resp: 373798
Ion Ratio Lower Upper
43 100
58 55.7 22.6 33.8#

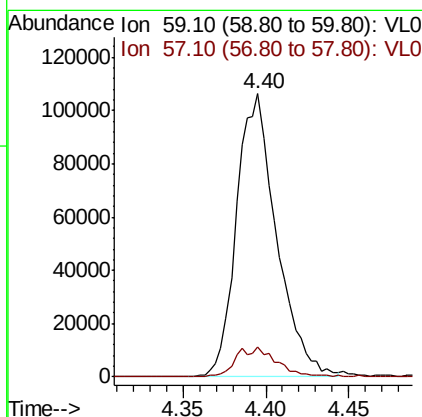
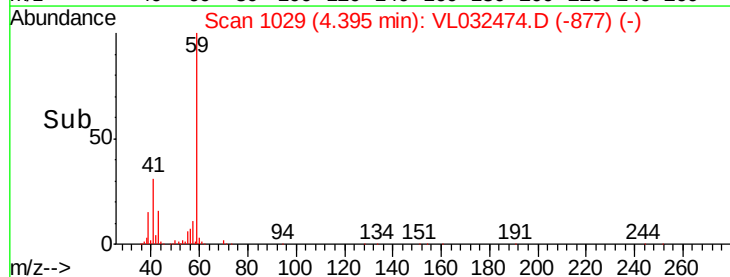
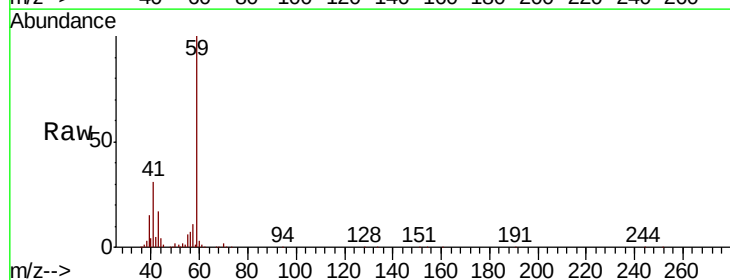
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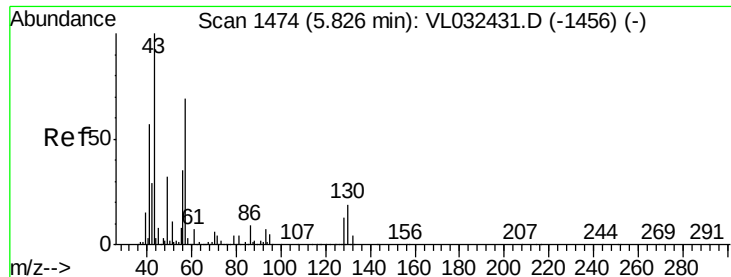
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#17
tert-Butyl alcohol
Concen: 8.48 ppbv
RT: 4.40 min Scan# 1029
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Tgt Ion: 59 Resp: 178182
Ion Ratio Lower Upper
59 100
57 11.2 0.0 0.0#





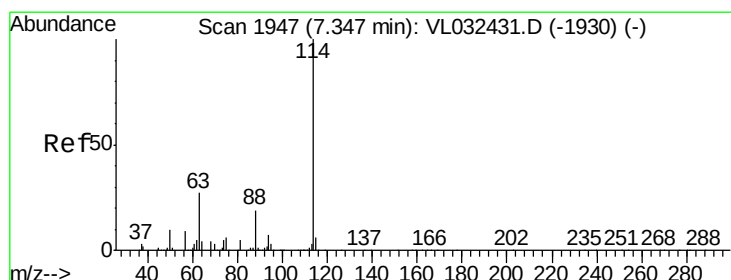
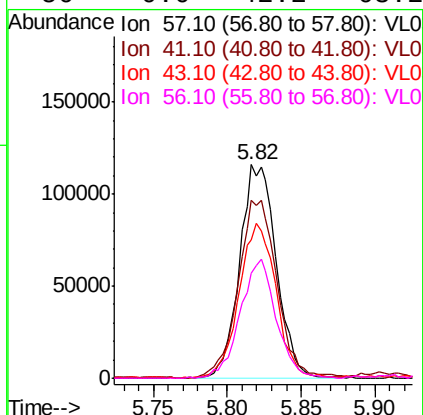
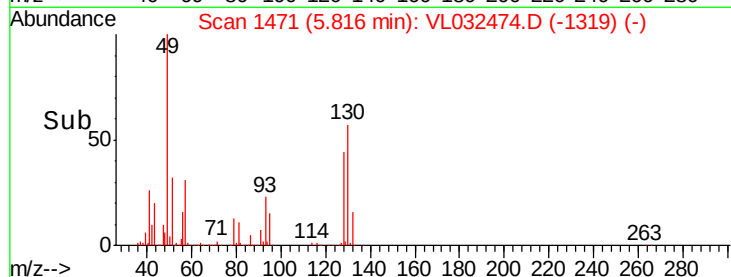
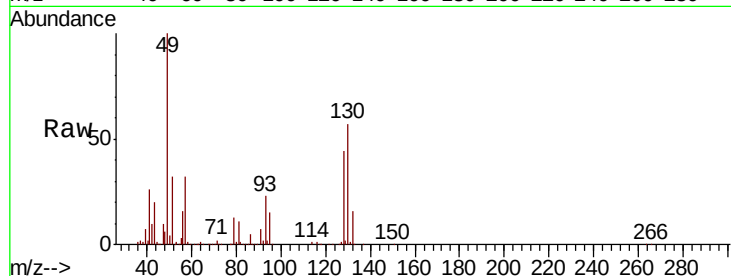
#26
Hexane
Concen: 1.38 ppbv m
RT: 5.82 min Scan# 1471
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Instrument :
MSVOA_L
ClientSampled :
VP-6DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	87.8	69.0	103.4
43	0.0	172.1	258.1#
56	0.0	42.2	63.2#

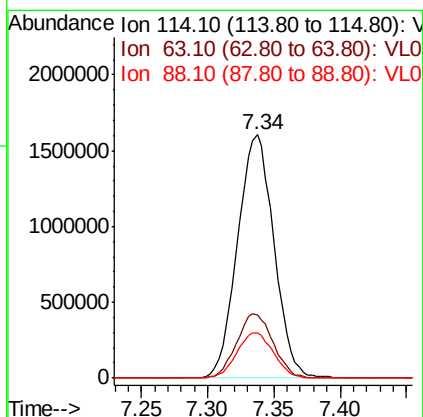
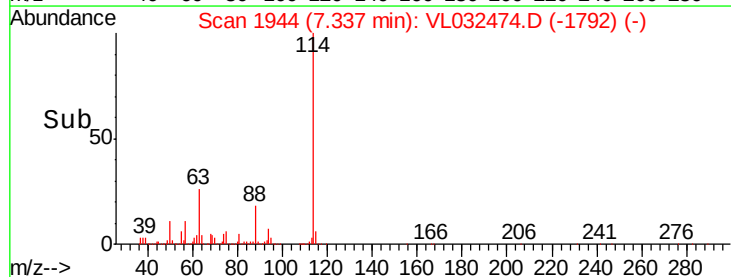
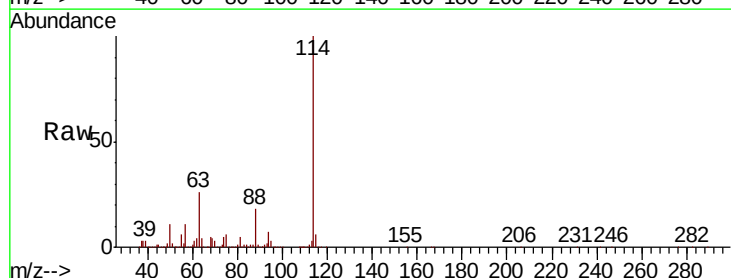
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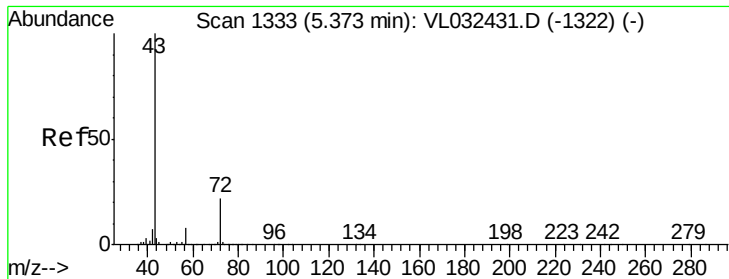
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#33
1,4-Difluorobenzene
Concen: 10.00 ppbv
RT: 7.34 min Scan# 1944
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Tgt Ion	Ratio	Lower	Upper
114	100		
63	26.5	22.2	33.4
88	18.7	15.0	22.4





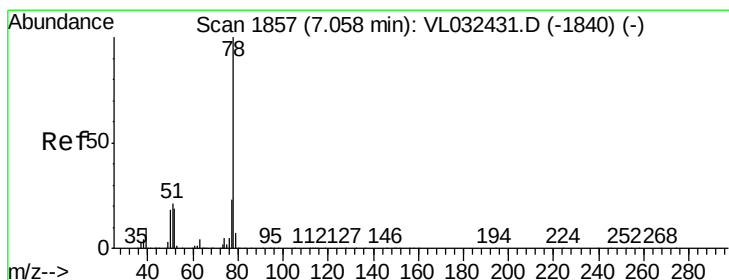
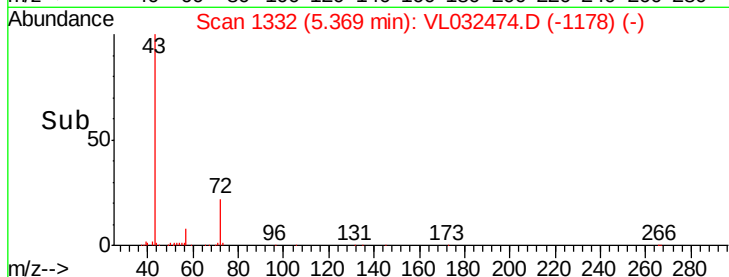
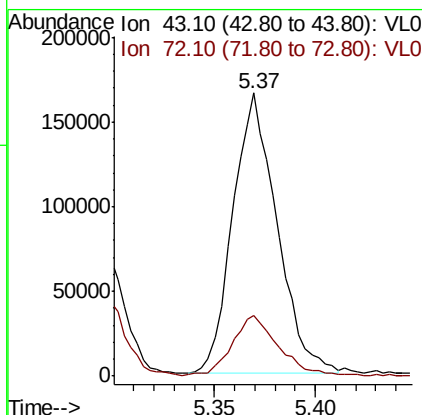
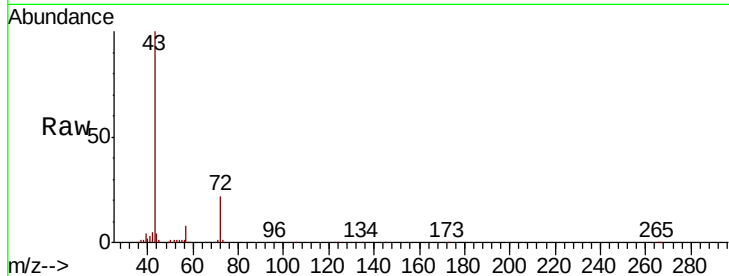
#34
 2-Butanone
 Concen: 1.24 ppbv
 RT: 5.37 min Scan# 1332
 Delta R.T. -0.00 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

Instrument :
 MSVOA_L
 ClientSampleId :
 VP-6DL

Tot Ion	Ratio	Lower	Upper
43	100		
72	22.6	17.8	26.6

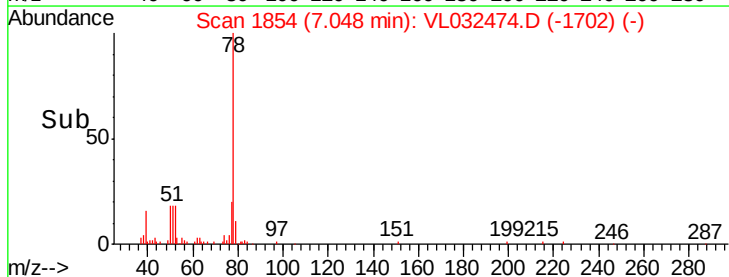
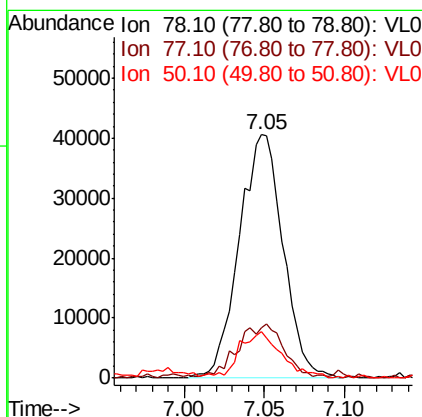
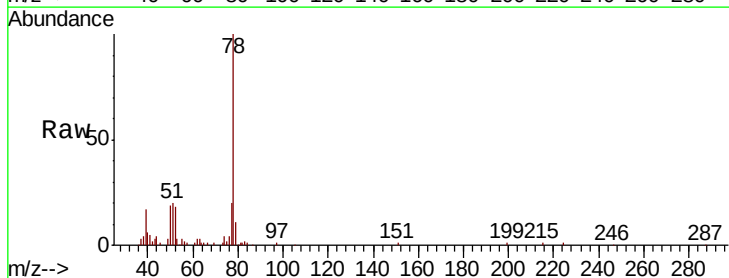
Manual Integrations
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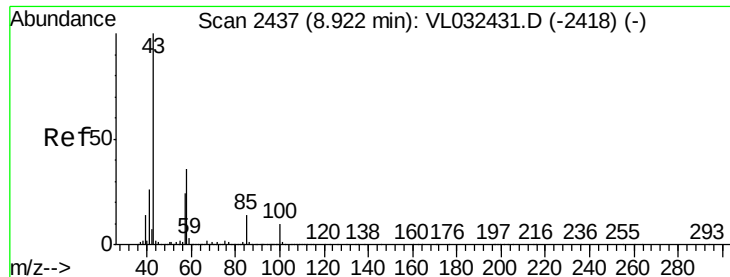
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#36
 Benzene
 Concen: 0.29 ppbv
 RT: 7.05 min Scan# 1854
 Delta R.T. -0.01 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

Tgt Ion	Ratio	Lower	Upper
78	100		
77	19.2	18.4	27.6
50	18.4	14.4	21.6





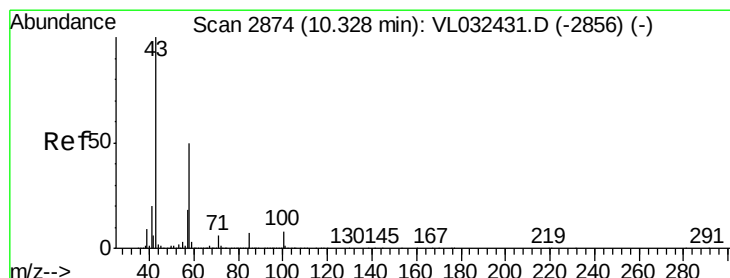
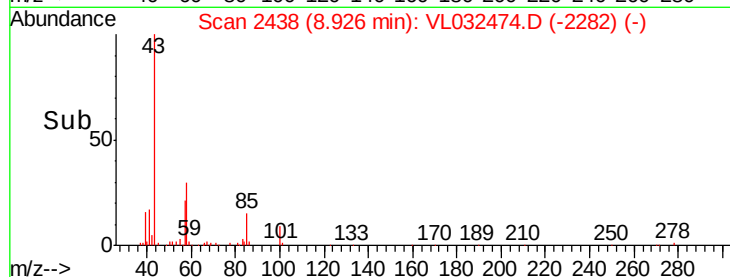
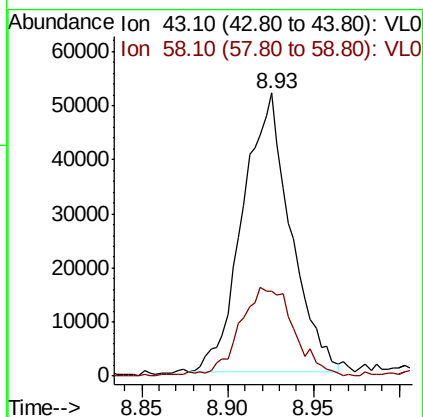
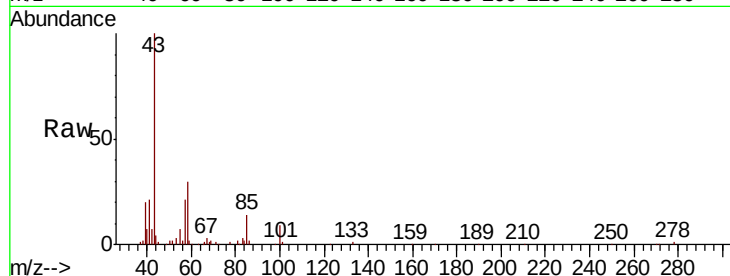
#50
4-Methyl-2-Pentanone
Concen: 0.33 ppbv
RT: 8.93 min Scan# 2438
Delta R.T. 0.00 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Instrument :
MSVOA_L
ClientSampled :
VP-6DL

Tot Ion	Ratio	Lower	Upper
43	100		
58	36.7	29.0	43.4

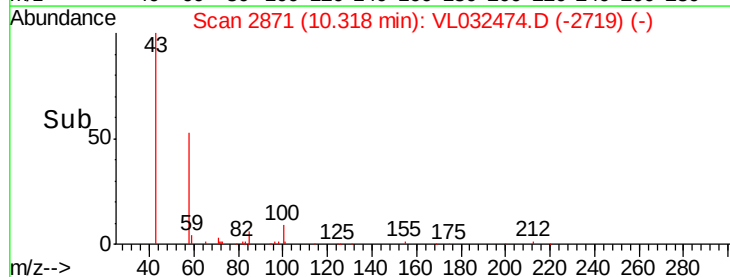
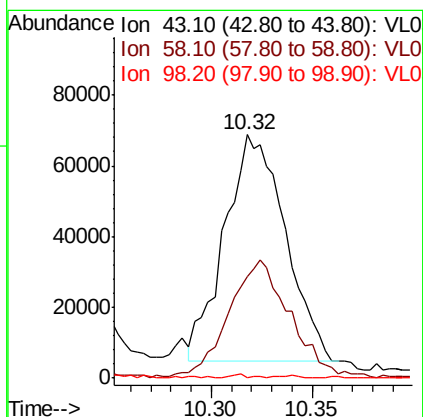
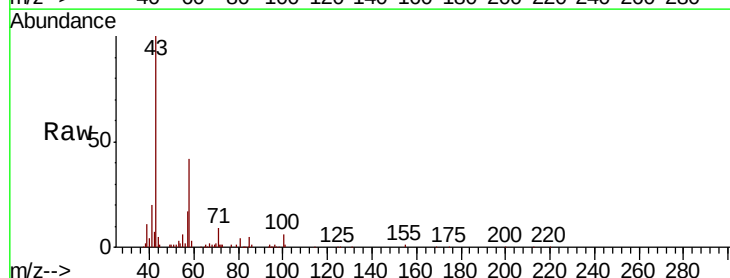
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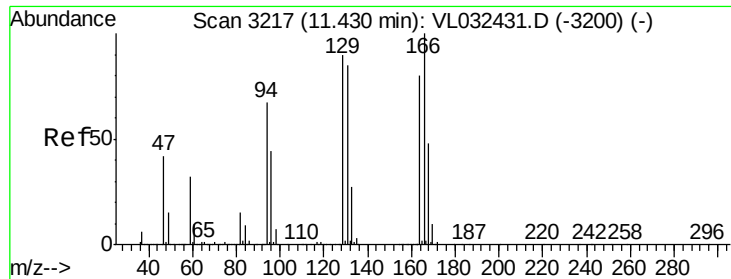
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#51
2-Hexanone
Concen: 0.68 ppbv
RT: 10.32 min Scan# 2871
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Tgt Ion	Ratio	Lower	Upper
43	100		
58	53.2	39.2	58.8
98	1.1	0.4	0.6#





#52

Tetrachloroethene

Concen: 0.17 ppbv m

RT: 11.43 min Scan# 3217

Delta R.T. -0.00 min

Lab File: VL032474.D

Acq: 6 Sep 2018 3:11

Instrument :

MSVOA_L

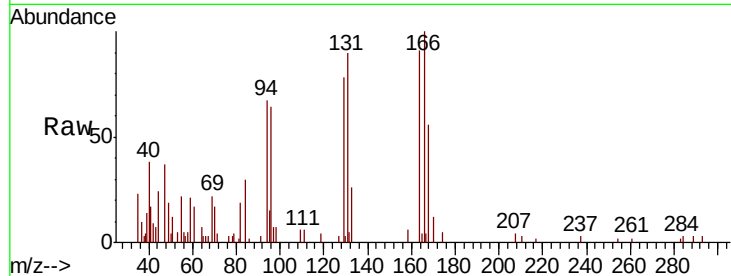
ClientSampleId :

VP-6DL

Tot Ion	Ratio	Lower	Upper
164	100		
166	109.5	100.6	150.8
129	85.0	89.9	134.9#
131	98.5	85.9	128.9

Manual Integrations
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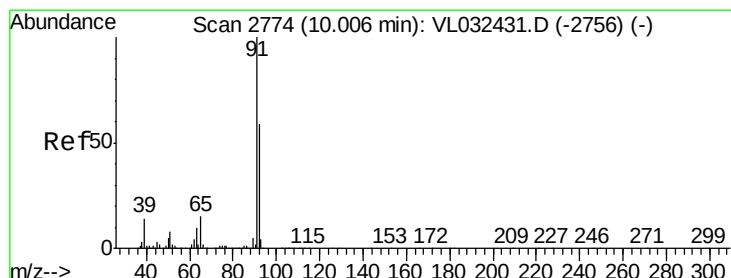
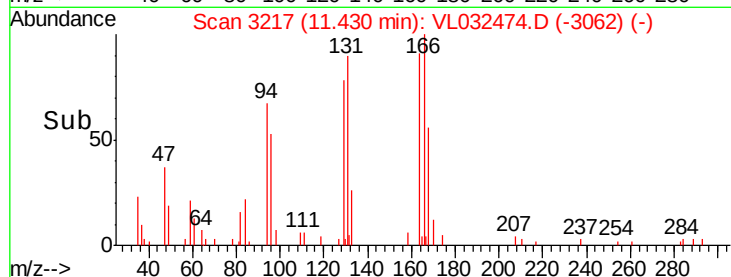
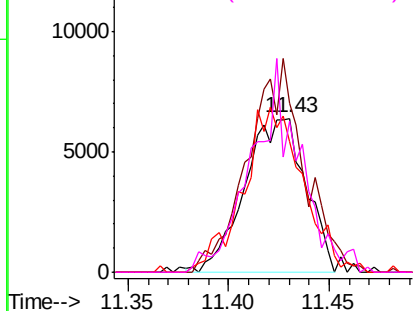
Abundance

Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V



#53

Toluene

Concen: 0.64 ppbv

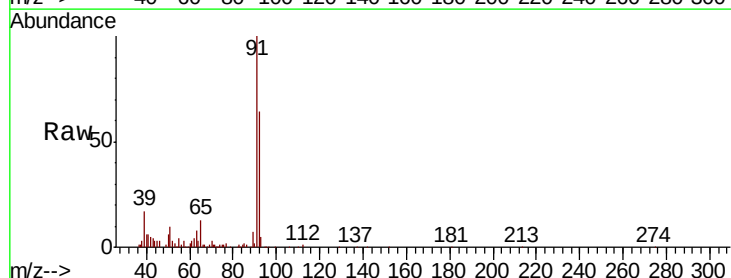
RT: 10.00 min Scan# 2771

Delta R.T. -0.01 min

Lab File: VL032474.D

Acq: 6 Sep 2018 3:11

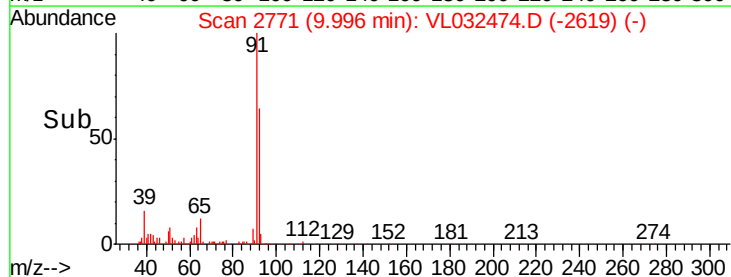
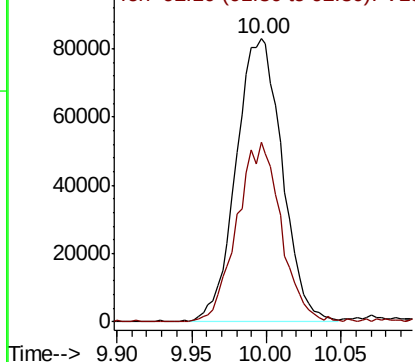
Tgt Ion	Ratio	Lower	Upper
91	100		
92	61.5	48.1	72.1

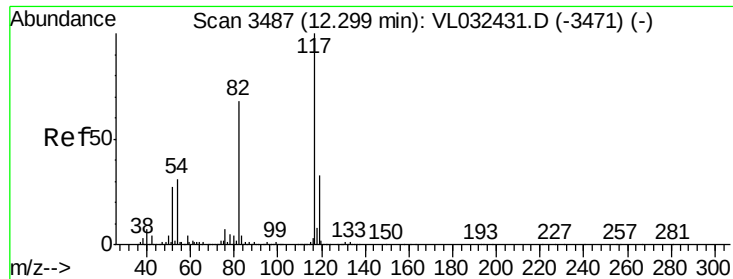


Abundance

Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





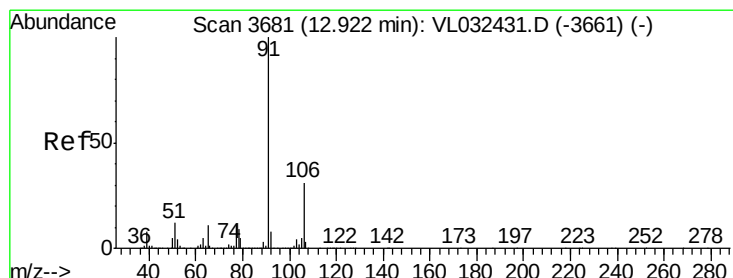
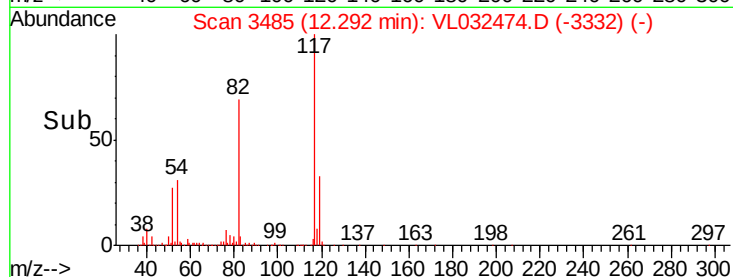
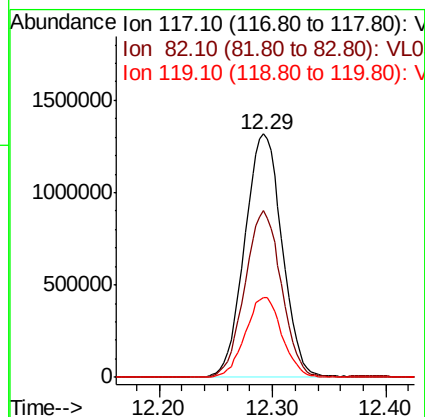
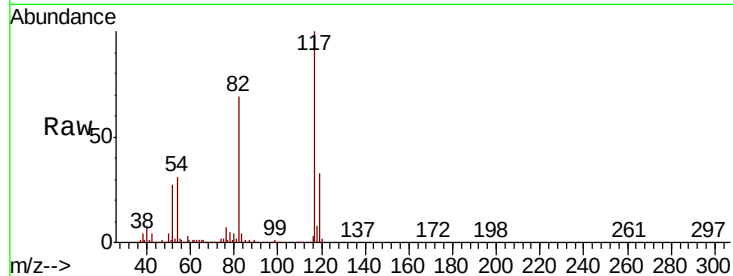
#55
Chlorobenzene-d5
Concen: 10.00 ppbv
RT: 12.29 min Scan# 3485
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Instrument :
MSVOA_L
ClientSampleId :
VP-6DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.0	53.0	79.6
119	32.3	45.9	68.9#

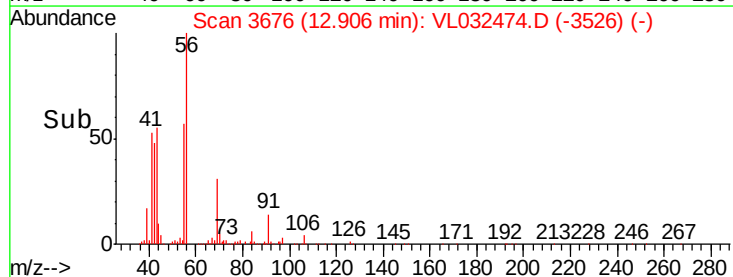
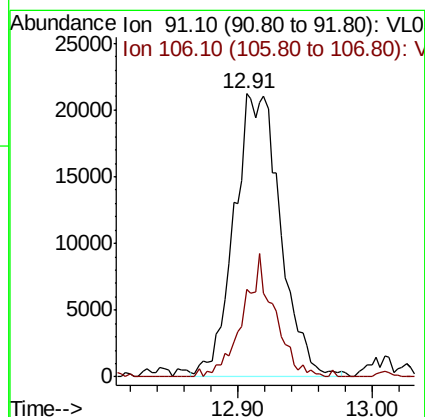
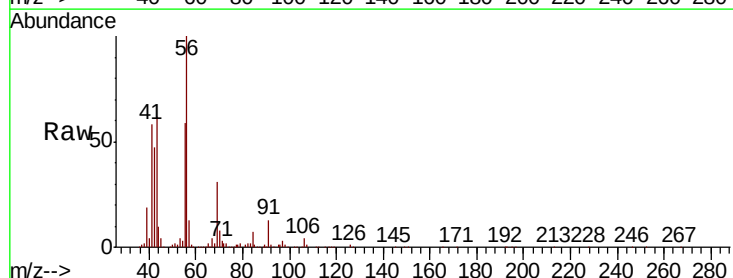
Manual Integrations
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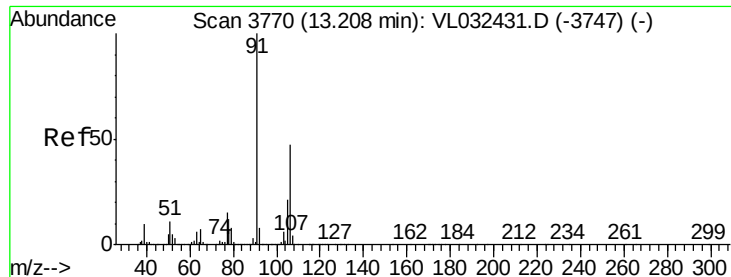
MMDadoda
9/7/2018 10:46:09 AM



#58
Ethyl Benzene
Concen: 0.14 ppbv m
RT: 12.91 min Scan# 3676
Delta R.T. -0.02 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Tgt Ion	Ratio	Lower	Upper
91	100		
106	30.7	24.8	37.2





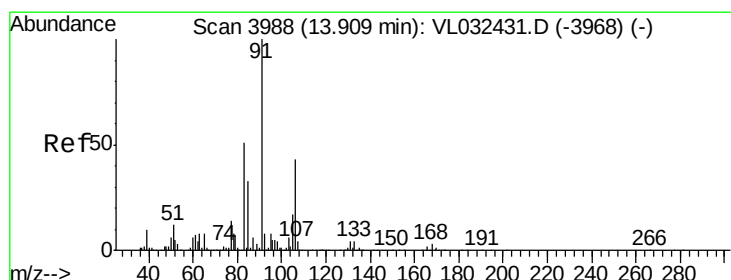
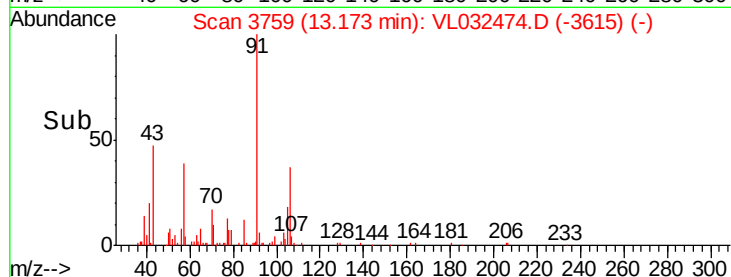
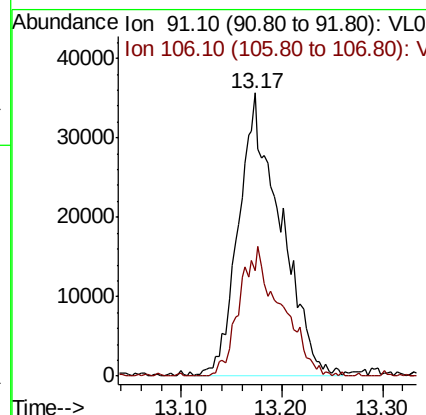
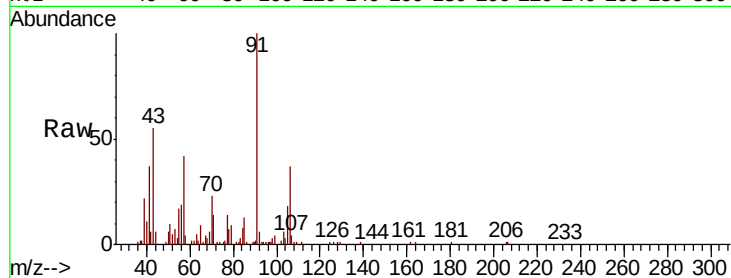
#59
m/p-Xylene
Concen: 0.32 ppbv m
RT: 13.17 min Scan# 3759
Delta R.T. -0.04 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Instrument :
MSVOA_L
ClientSampled :
VP-6DL

Tot Ion: 91 Resp: 103167
Ion Ratio Lower Upper
91 100
106 0.0 36.6 55.0#

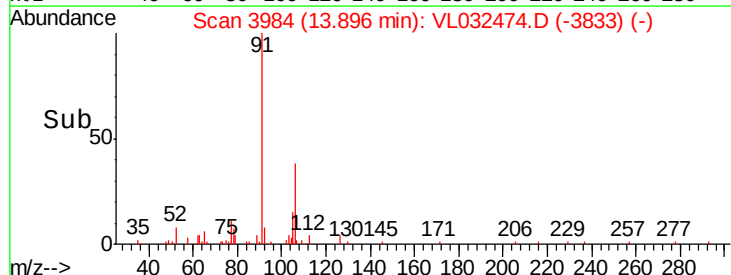
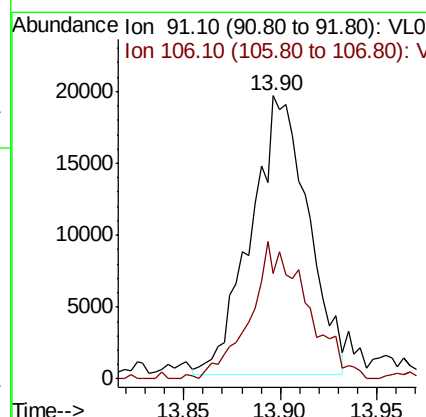
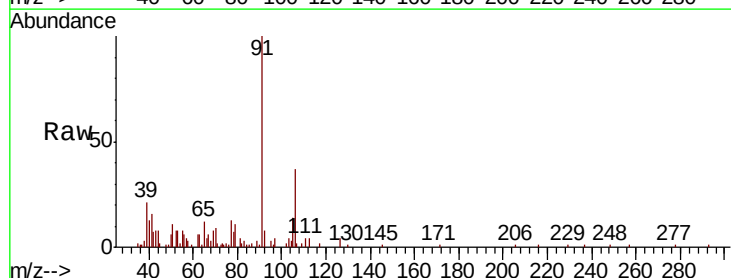
Manual Integrations
APPROVED

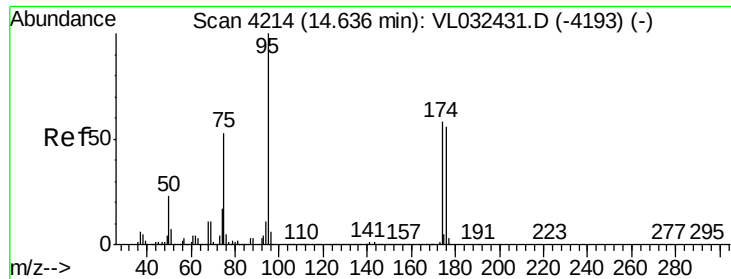
MMDadoda
9/7/2018 10:46:09 AM



#60
o-Xylene
Concen: 0.13 ppbv
RT: 13.90 min Scan# 3984
Delta R.T. -0.01 min
Lab File: VL032474.D
Acq: 6 Sep 2018 3:11

Tgt Ion: 91 Resp: 39950
Ion Ratio Lower Upper
91 100
106 50.1 21.9 65.7





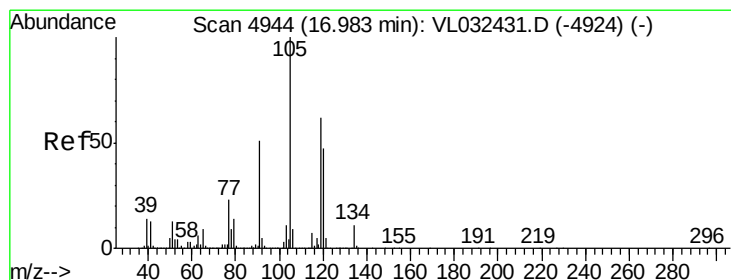
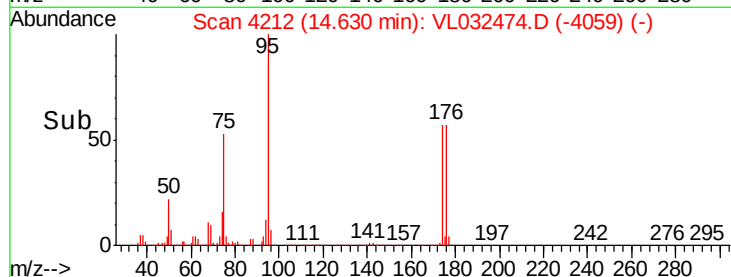
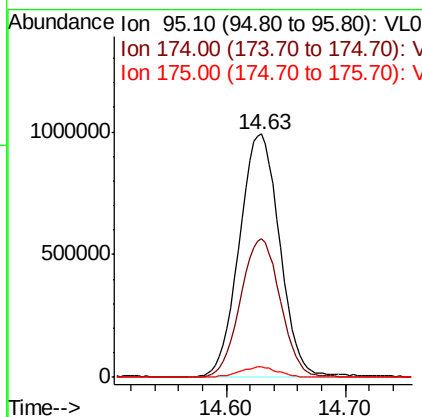
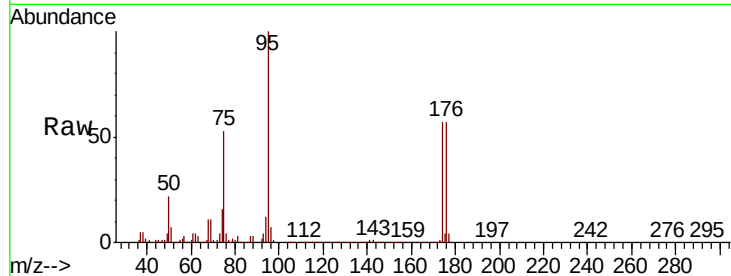
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.36 ppbv
 RT: 14.63 min Scan# 4212
 Delta R.T. -0.01 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

Instrument :
 MSVOA_L
 ClientSampled :
 VP-6DL

Tot Ion	Ratio	Lower	Upper
95	100		
174	56.9	46.3	69.5
175	4.1	3.4	5.0

Manual Integrations
 APPROVED

MMDadoda
 9/7/2018 10:46:09 AM



#74
 1,2,4-Trimethylbenzene
 Concen: 0.23 ppbv
 RT: 16.98 min Scan# 4943
 Delta R.T. -0.00 min
 Lab File: VL032474.D
 Acq: 6 Sep 2018 3:11

Tgt Ion	Ratio	Lower	Upper
105	100		
120	47.3	37.8	56.8
91	10.8	41.4	62.0
77	21.3	18.6	28.0

