

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL091019\
 Data File : VL034151.D
 Acq On : 10 Sep 2019 20:29
 Operator : SY/AP
 Sample : K4775-04DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL

Manual Integrations
 APPROVED

MMDadoda
 9/12/2019 5:17:03 AM

Quant Time: Sep 11 21:40:50 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep 0
 QLast Update : Thu Sep 05 10:21:45 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.70	49	684517	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.23	114	1342721	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.17	117	1314372	10.00	ppbv	-0.01

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.50	95	1096415	10.20	ppbv	0.00	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.00	41	171154	4.009	ppbv	97
10) Heptane	8.18	43	31986	0.289	ppbv	100
13) Ethanol	3.60	45	53269	6.369	ppbv	96
15) Acetone	3.84	43	4702863	57.006	ppbv #	86
17) tert-Butyl alcohol	4.31	59	50423	0.842	ppbv	96
19) Isopropyl Alcohol	3.97	45	140893	2.530	ppbv #	97
26) Hexane	5.72	57	43998	0.546	ppbv #	34
30) Cyclohexane	7.17	84	9051m	0.155	ppbv	
32) 1,1,1-Trichloroethane	6.56	97	4995m	0.049	ppbv	
34) 2-Butanone	5.27	43	505626	3.917	ppbv	99
36) Benzene	6.94	78	42078	0.274	ppbv #	90
38) Trichloroethene	7.90	130	2499m	0.044	ppbv	
44) 2,2,4-Trimethylpentane	7.92	57	57427	0.203	ppbv #	79
51) 2-Hexanone	10.20	43	112874	0.663	ppbv #	100
52) Tetrachloroethene	11.30	164	47007m	0.869	ppbv	
53) Toluene	9.88	91	158635	0.935	ppbv	96
58) Ethyl Benzene	12.79	91	27611m	0.128	ppbv	
59) m/p-Xylene	13.04	91	70802m	0.403	ppbv	
60) o-Xylene	13.77	91	25961m	0.148	ppbv	
74) 1,2,4-Trimethylbenzene	16.85	105	28681m	0.145	ppbv	

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

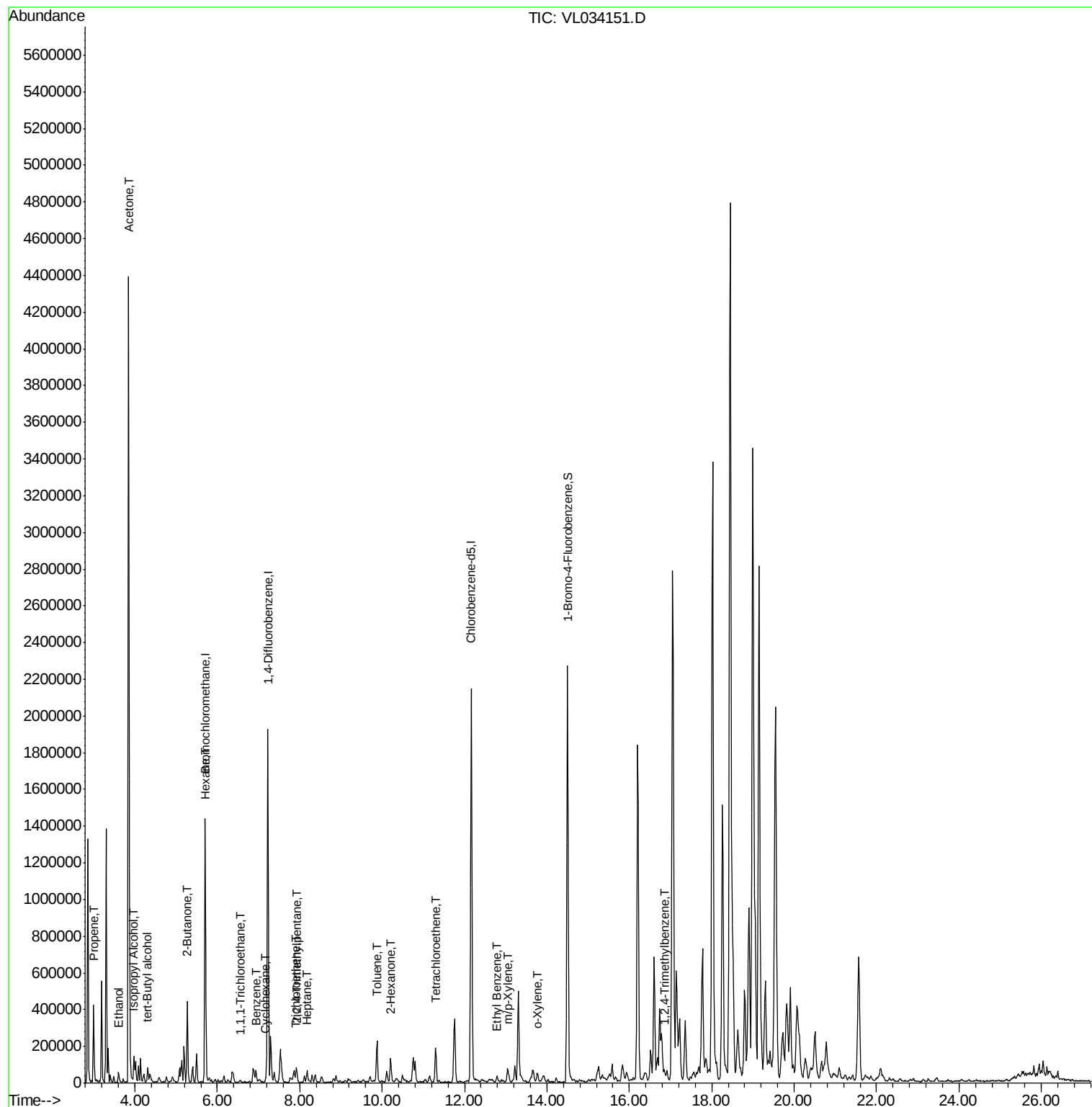
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL091019\
Data File : VL034151.D
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Operator : SY/AP
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

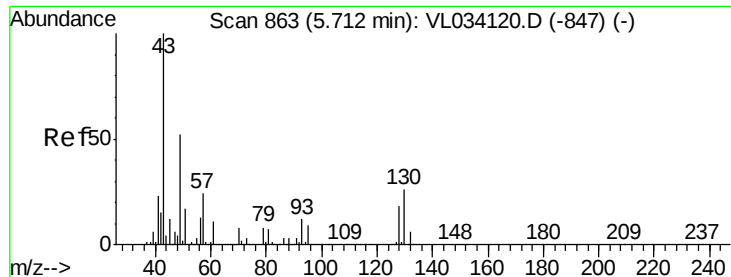
Instrument :
MSVOA_L
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Quant Time: Sep 11 21:40:50 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL090519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Sep
QLast Update : Thu Sep 05 10:21:45 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.70 min Scan# 907

Delta R.T. -0.01 min

Lab File: VL034151.D

Acq: 10 Sep 2019 20:29

Instrument :

MSVOA_L

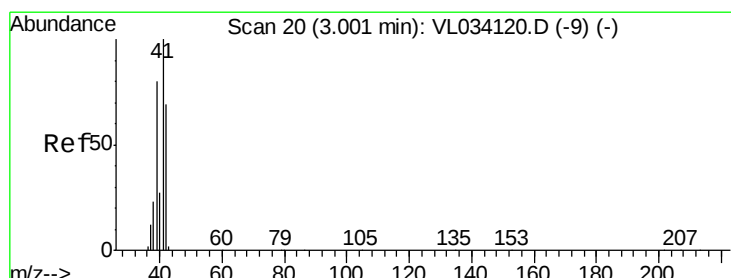
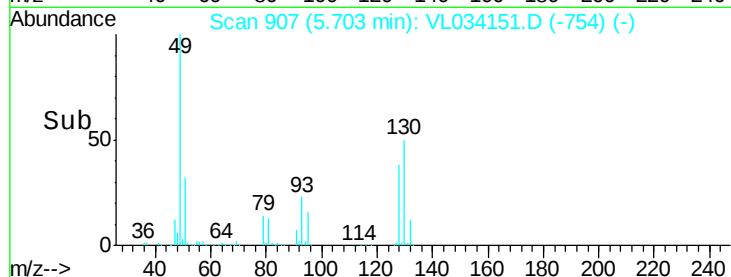
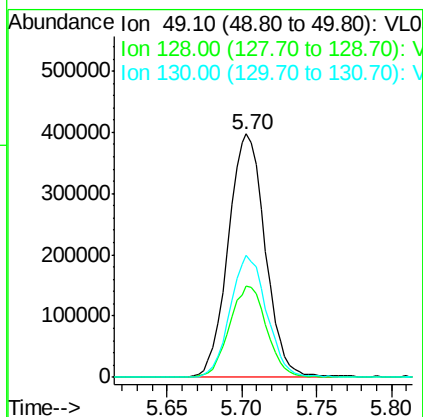
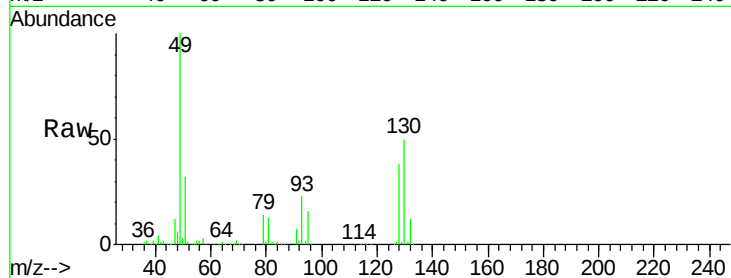
ClientSampleId :

SV4DL

Tot Ion:	49	Resp:	684517
Ion	Ratio	Lower	Upper
49	100		
128	38.1	18.4	55.0
130	49.7	23.5	70.6

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#9

Propene

Concen: 4.009 ppbv

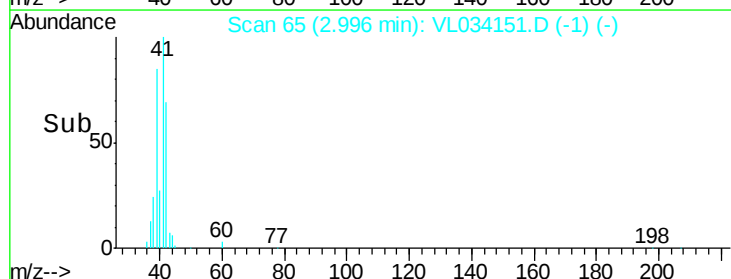
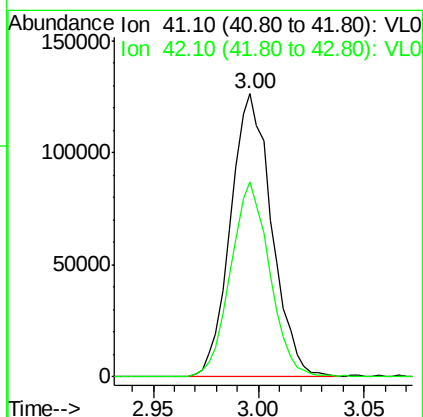
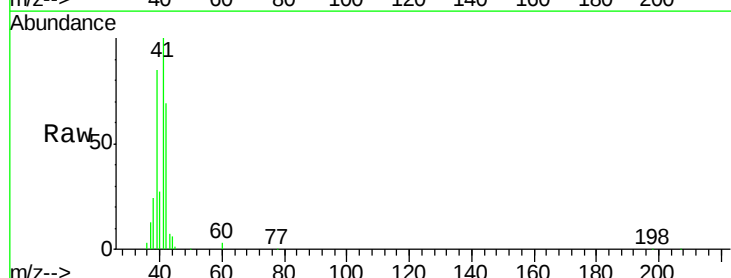
RT: 3.00 min Scan# 65

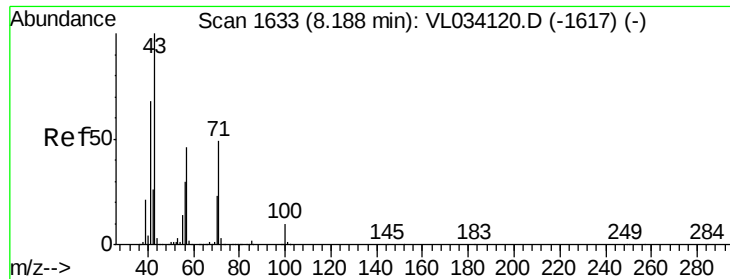
Delta R.T. -0.01 min

Lab File: VL034151.D

Acq: 10 Sep 2019 20:29

Tgt Ion:	41	Resp:	171154
Ion	Ratio	Lower	Upper
41	100		
42	65.8	54.6	81.8





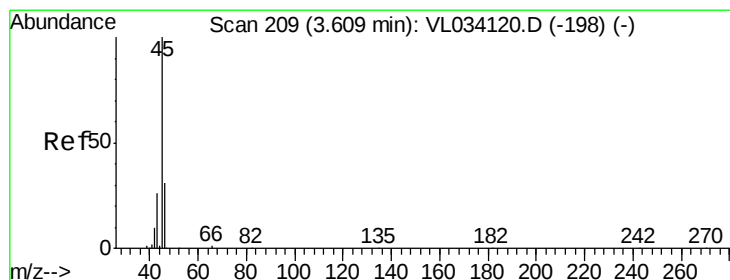
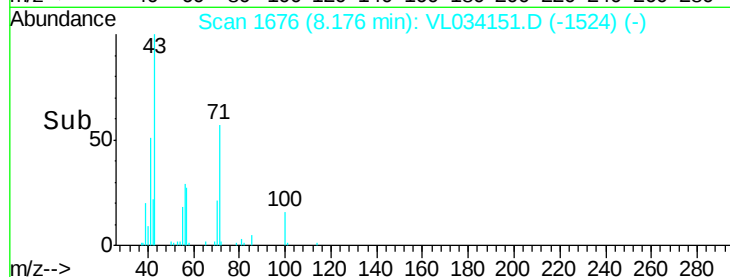
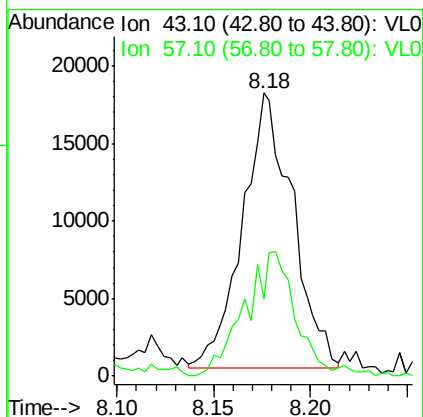
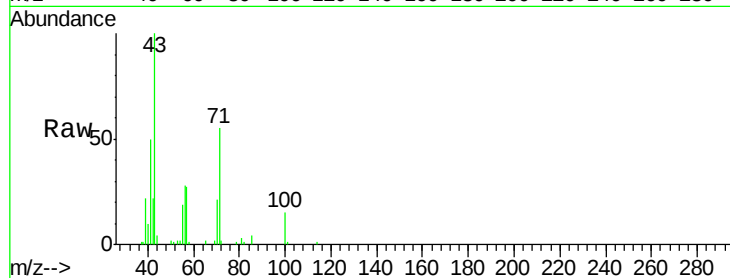
#10
Heptane
Concen: 0.289 ppbv
RT: 8.18 min Scan# 1676
Delta R.T. -0.01 min
Lab File: VL034151.D
Acq: 10 Sep 2019 20:29

Instrument :
MSVOA_L
ClientSampleID :
SV4DL

Tot Ion: 43 Resp: 31986
Ion Ratio Lower Upper
43 100
57 47.6 38.1 57.1

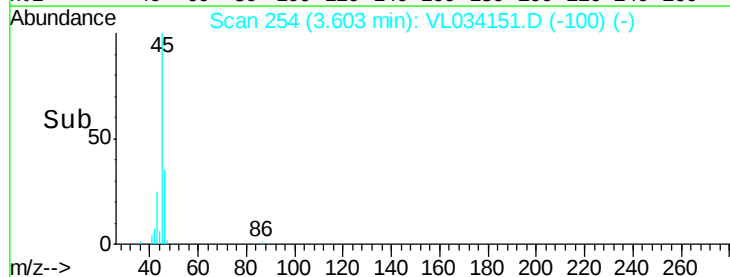
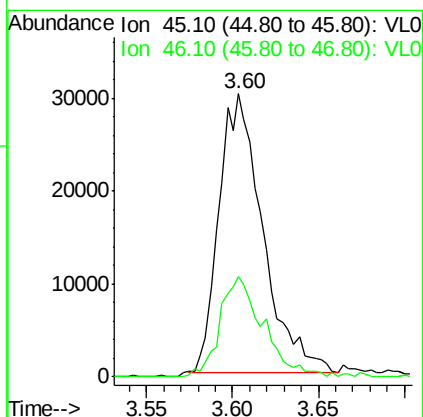
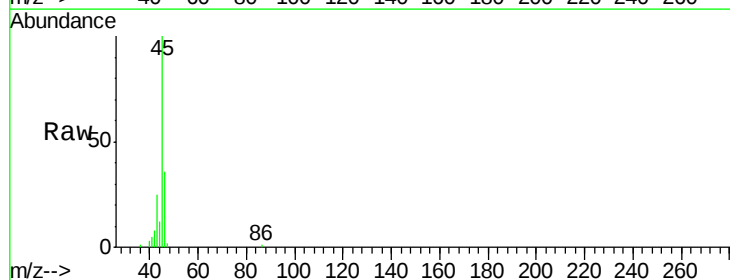
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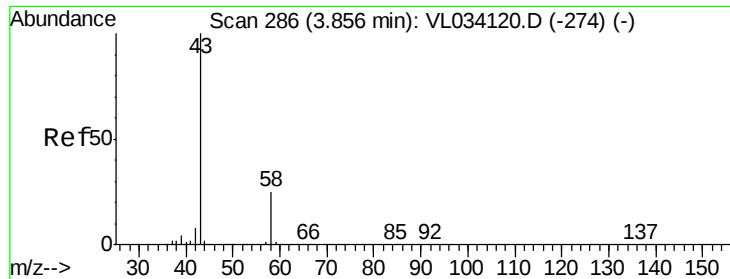
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#13
Ethanol
Concen: 6.369 ppbv
RT: 3.60 min Scan# 254
Delta R.T. -0.01 min
Lab File: VL034151.D
Acq: 10 Sep 2019 20:29

Tgt Ion: 45 Resp: 53269
Ion Ratio Lower Upper
45 100
46 35.2 15.0 60.0





#15

Acetone

Concen: 57.006 ppbv

RT: 3.84 min Scan# 329

Delta R.T. -0.01 min

Lab File: VL034151.D

Acq: 10 Sep 2019 20:29

Instrument :

MSVOA_L

ClientSampled :

SV4DL

Tot Ion: 43 Resp: 4702863

Ion Ratio Lower Upper

43 100

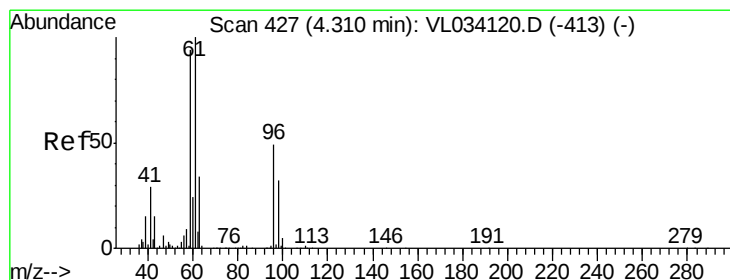
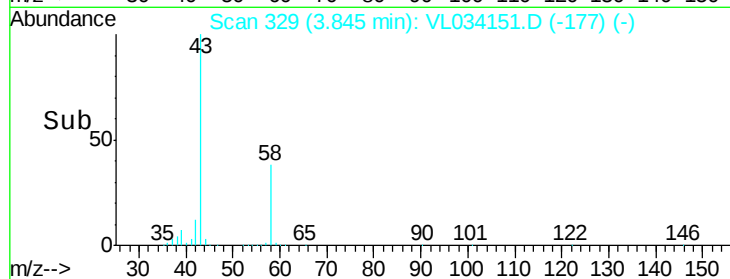
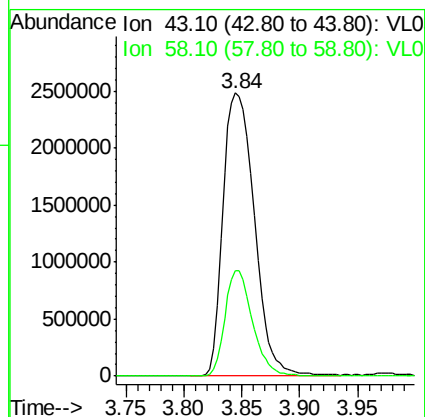
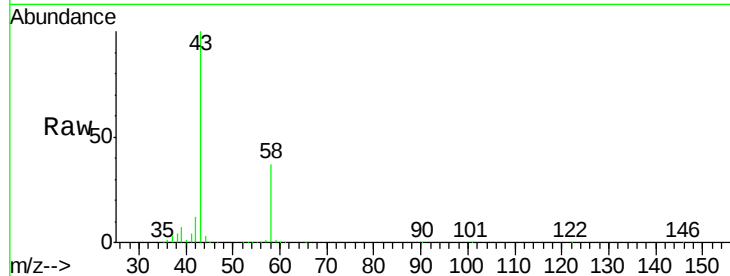
58 32.7 20.6 30.8#

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#17

tert-Butyl alcohol

Concen: 0.842 ppbv

RT: 4.31 min Scan# 474

Delta R.T. 0.00 min

Lab File: VL034151.D

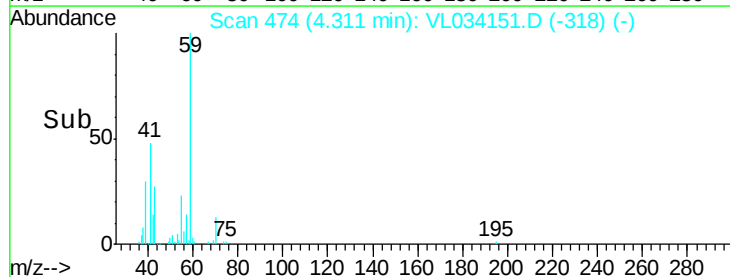
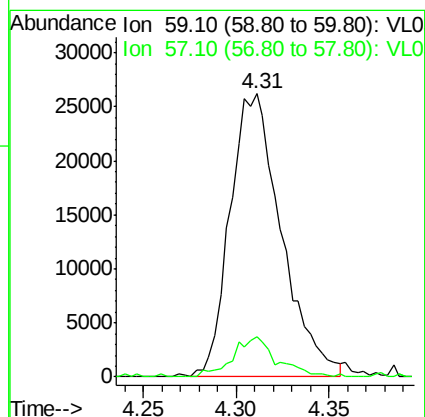
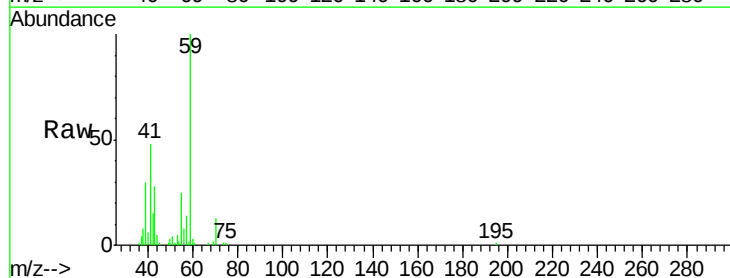
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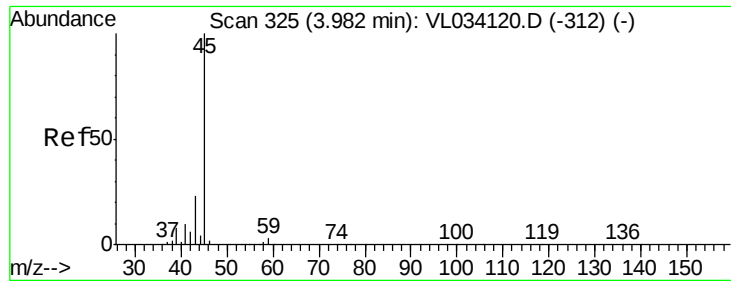
Tgt Ion: 59 Resp: 50423

Ion Ratio Lower Upper

59 100

57 12.1 8.6 12.8





#19

Isopropyl Alcohol

Concen: 2.530 ppbv

RT: 3.97 min Scan# 369

Delta R.T. -0.01 min

Lab File: VL034151.D

Acq: 10 Sep 2019 20:29

Instrument :

MSVOA_L

ClientSampleID :

SV4DL

Tot Ion: 45 Resp: 140893

Ion Ratio Lower Upper

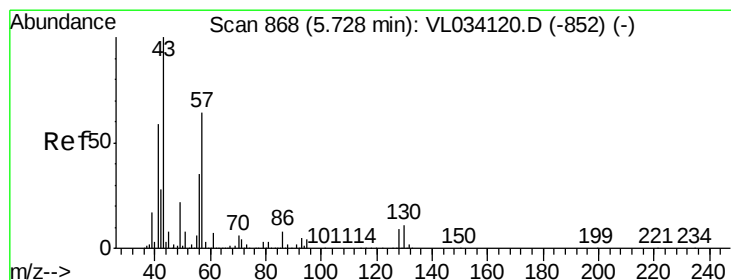
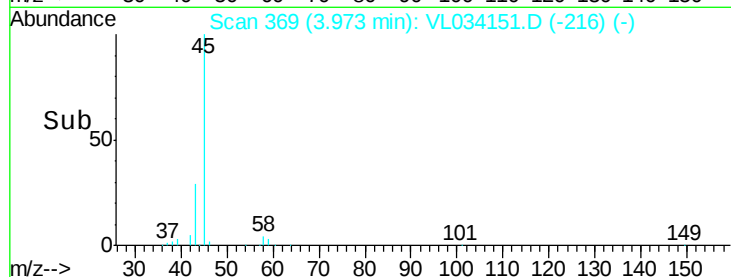
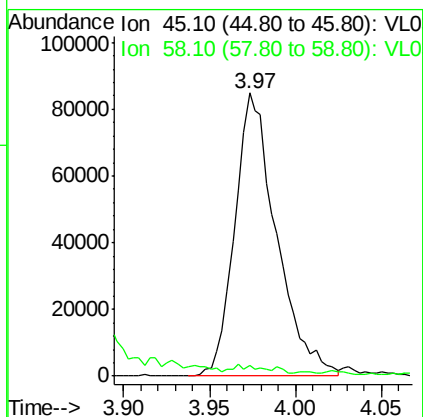
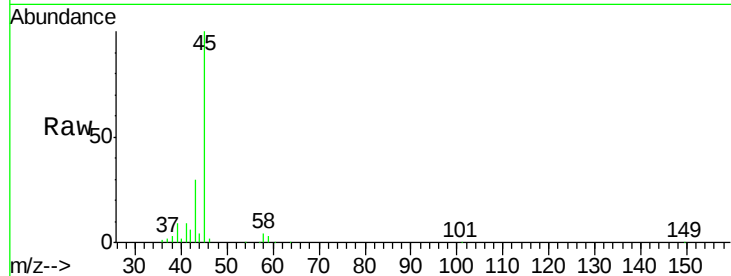
45 100

58 0.0 1.0 1.6#

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#26

Hexane

Concen: 0.546 ppbv

RT: 5.72 min Scan# 912

Delta R.T. -0.01 min

Lab File: VL034151.D

Acq: 10 Sep 2019 20:29

Tgt Ion: 57 Resp: 43998

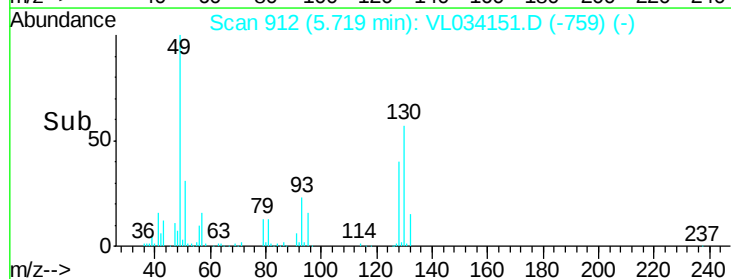
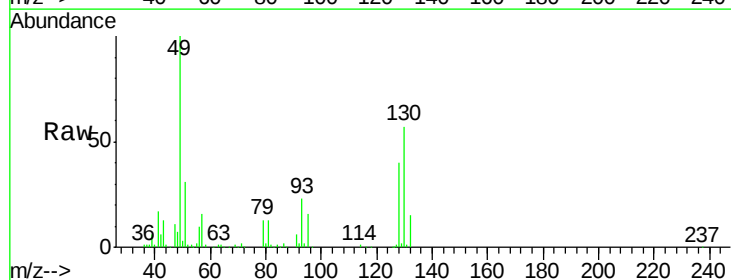
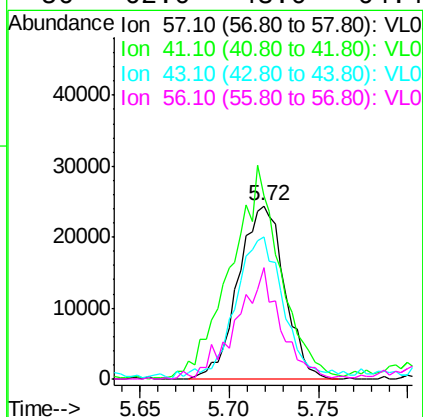
Ion Ratio Lower Upper

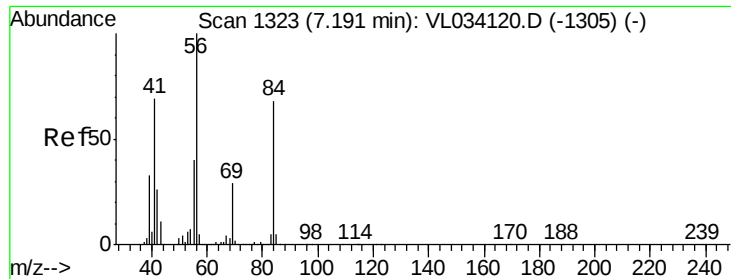
57 100

41 130.4 76.6 115.0#

43 83.6 189.2 283.8#

56 62.0 43.0 64.4





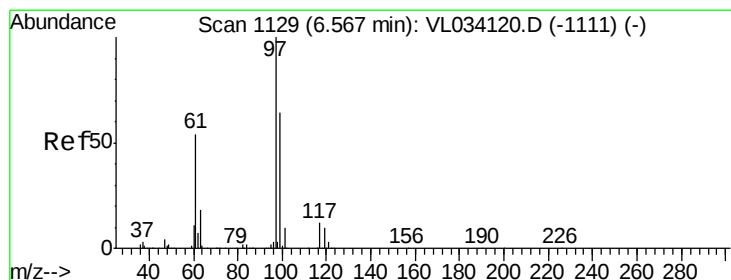
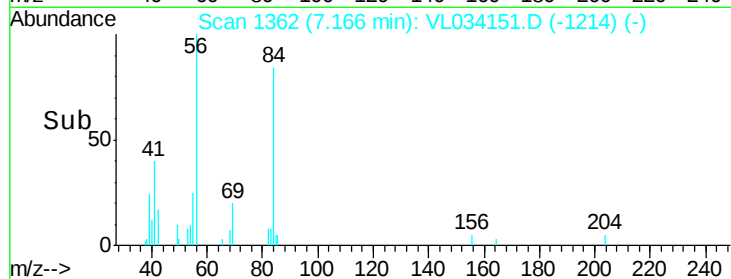
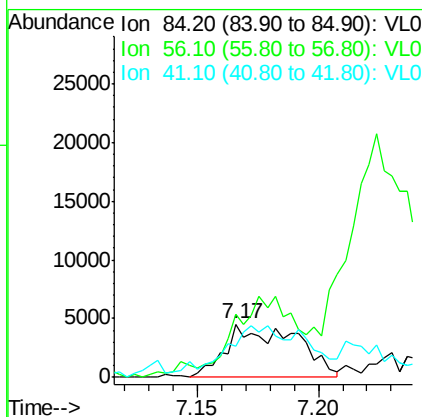
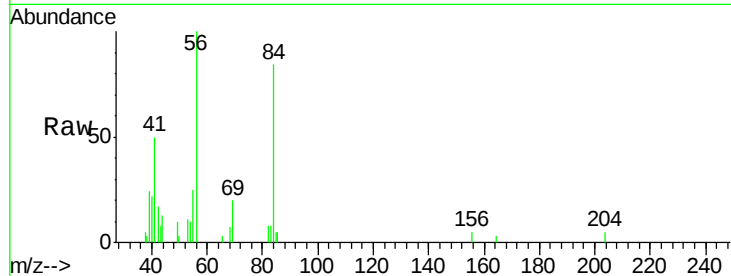
#30
Cvclohexane
Concen: 0.155 ppbv m
RT: 7.17 min Scan# 1362
Delta R.T. -0.02 min
Lab File: VL034151.D
Acq: 10 Sep 2019 20:29

Instrument :
MSVOA_L
ClientSampled :
SV4DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	167.9	122.6	183.8
41	154.6	79.1	118.7#

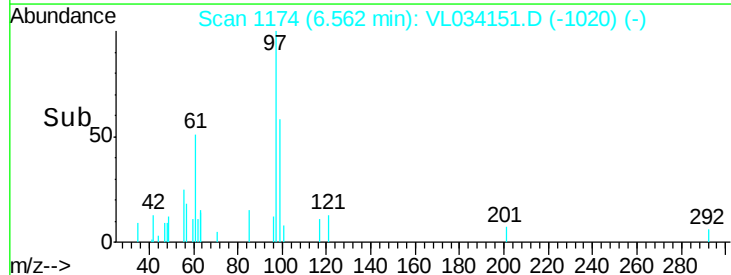
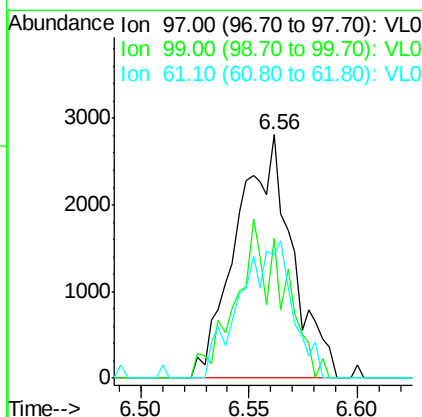
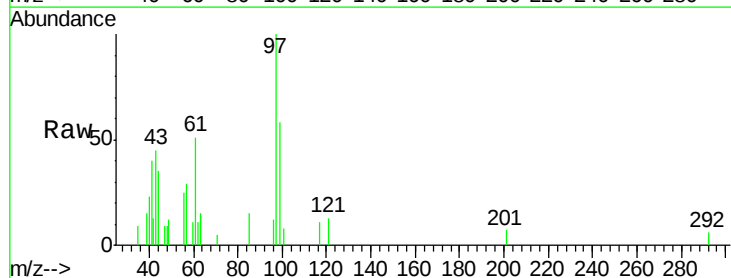
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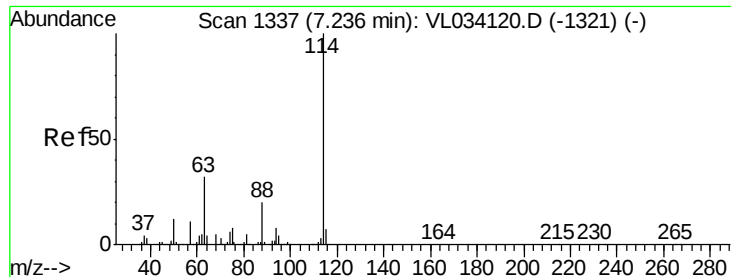
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#32
1,1,1-Trichloroethane
Concen: 0.049 ppbv m
RT: 6.56 min Scan# 1174
Delta R.T. -0.01 min
Lab File: VL034151.D
Acq: 10 Sep 2019 20:29

Tgt Ion	Ratio	Lower	Upper
97	100		
99	55.6	51.7	77.5
61	0.0	44.0	66.0#





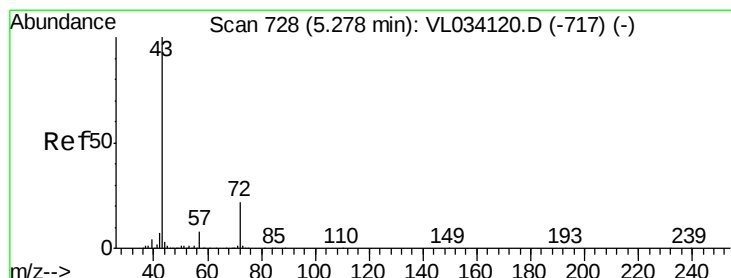
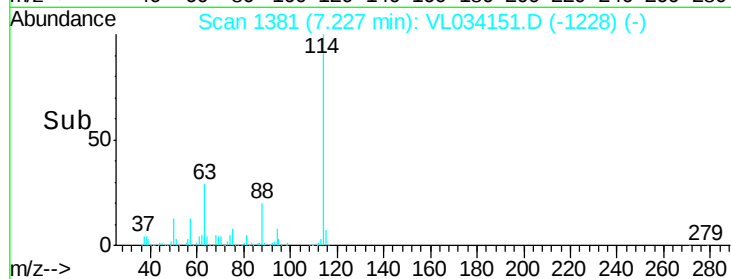
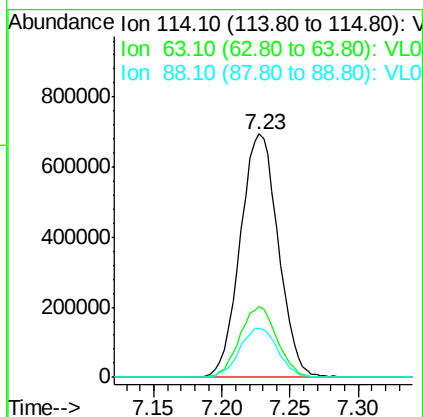
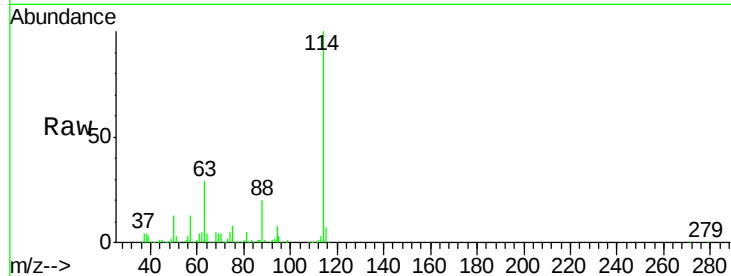
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 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.23 min Scan# 1381
 Delta R.T. -0.01 min
 Lab File: VL034151.D
 Acq: 10 Sep 2019 20:29

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	28.6	25.5	38.3
88	20.3	16.8	25.2

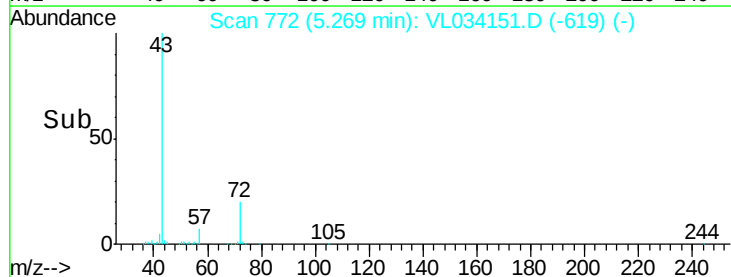
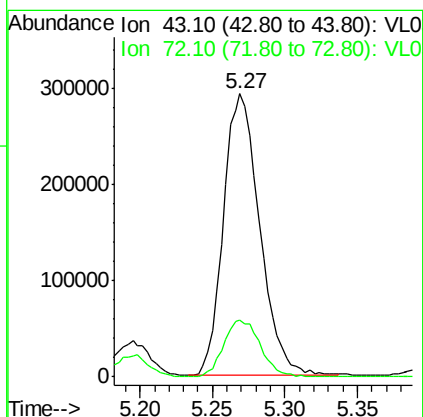
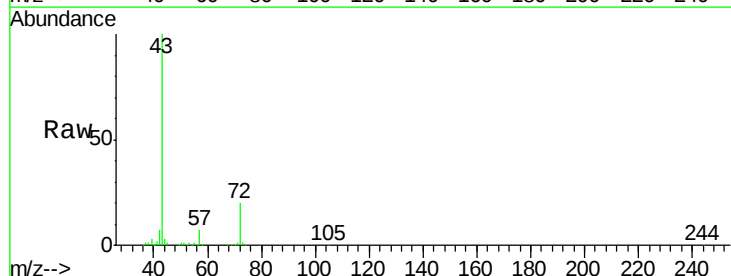
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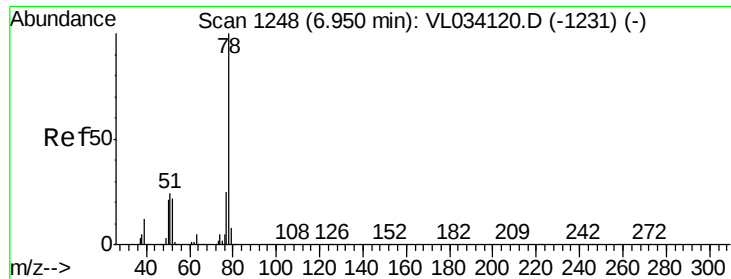
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#34
 2-Butanone
 Concen: 3.917 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. -0.01 min
 Lab File: VL034151.D
 Acq: 10 Sep 2019 20:29

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.9	16.5	24.7





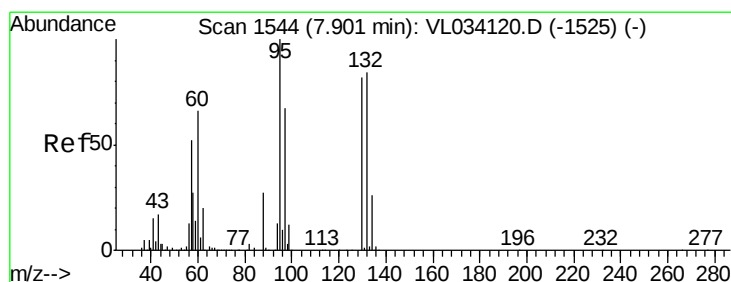
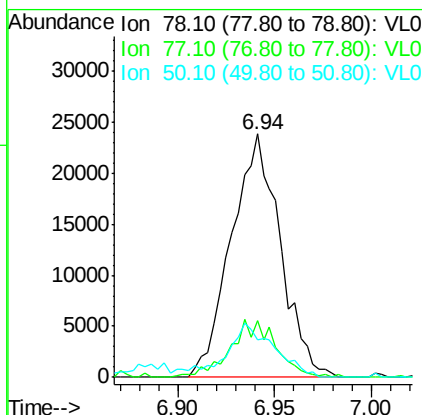
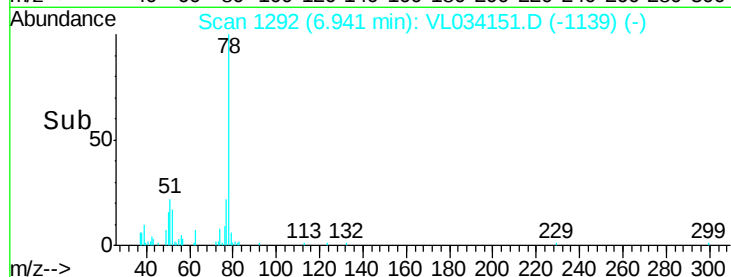
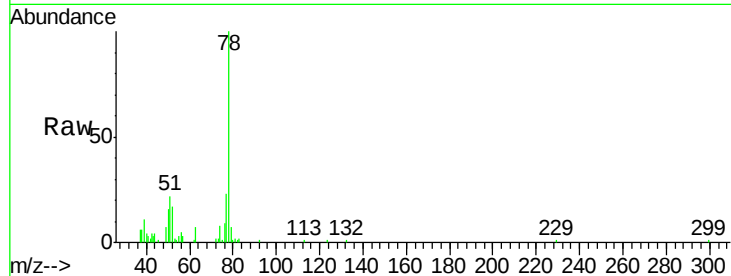
#36
Benzene
Concen: 0.274 ppbv
RT: 6.94 min Scan# 1292
Delta R.T. -0.01 min
Lab File: VL034151.D
Acq: 10 Sep 2019 20:29

Instrument :
MSVOA_L
ClientSampleId :
SV4DL

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.2	20.3	30.5
50	14.1	16.9	25.3

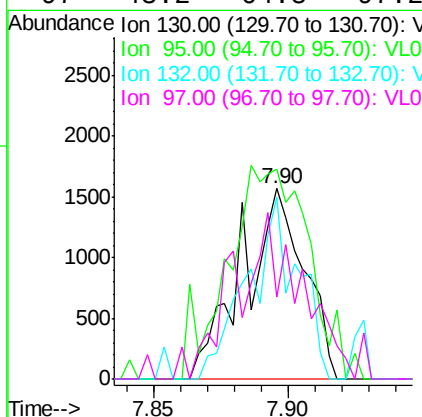
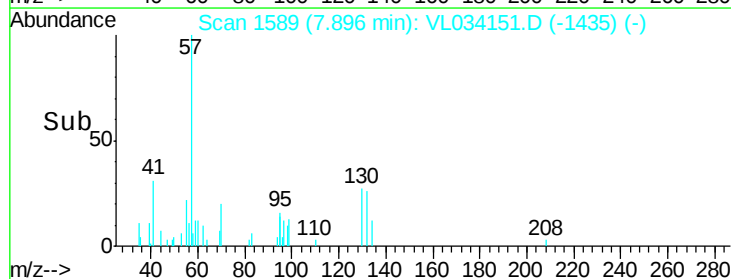
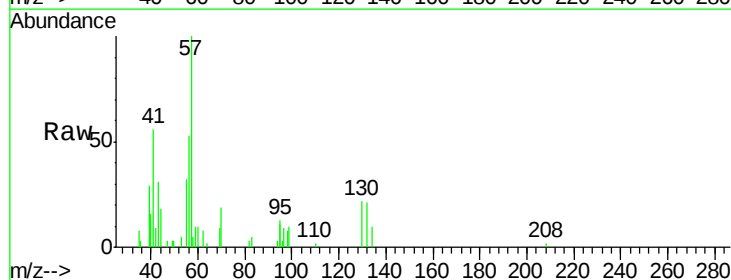
Manual Integrations
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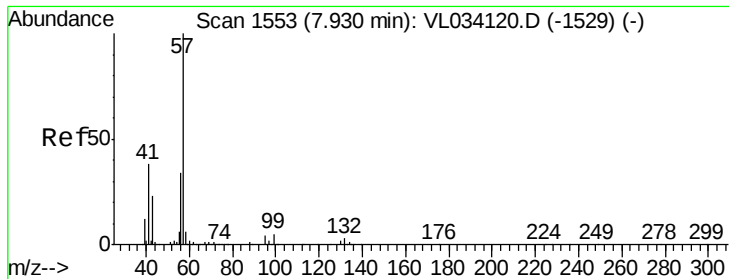
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#38
Trichloroethene
Concen: 0.044 ppbv m
RT: 7.90 min Scan# 1589
Delta R.T. -0.01 min
Lab File: VL034151.D
Acq: 10 Sep 2019 20:29

Tgt Ion	Ratio	Lower	Upper
130	100		
95	58.0	97.2	145.8
132	95.7	81.4	122.2
97	43.2	64.8	97.2





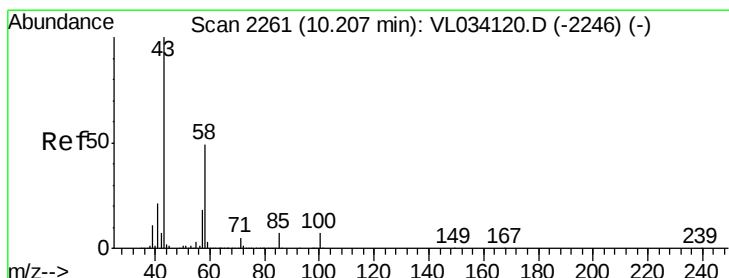
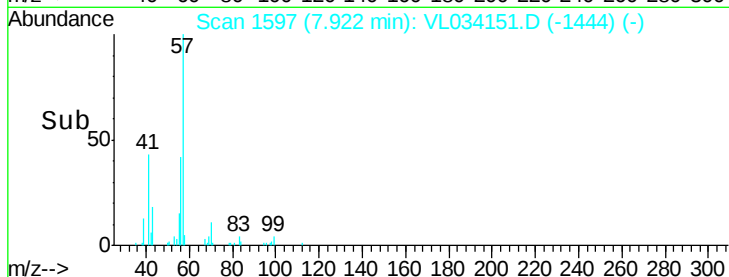
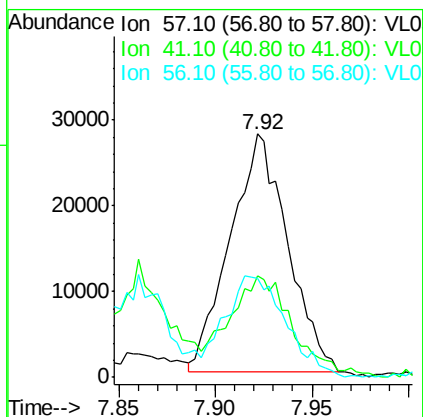
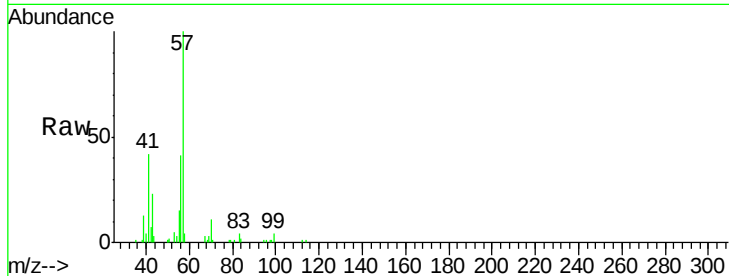
#44
 2,2,4-Trimethylpentane
 Concen: 0.203 ppbv
 RT: 7.92 min Scan# 1597
 Delta R.T. -0.01 min
 Lab File: VL034151.D
 Acq: 10 Sep 2019 20:29

Instrument :
 MSVOA_L
 ClientSampleId :
 SV4DL

Tot Ion	Ratio	Lower	Upper
57	100		
41	47.6	28.4	42.6#
56	45.4	26.3	39.5#

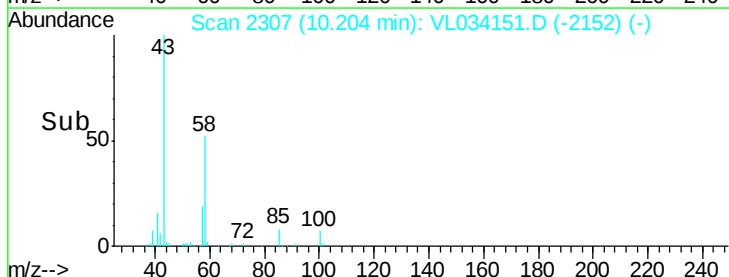
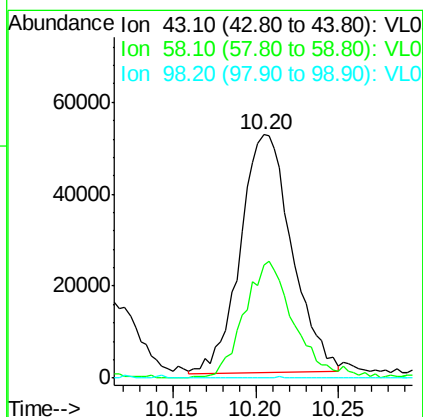
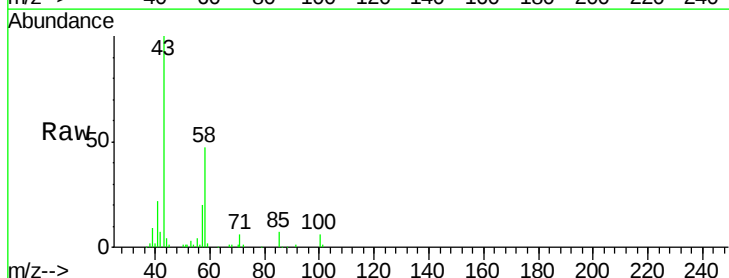
Manual Integrations
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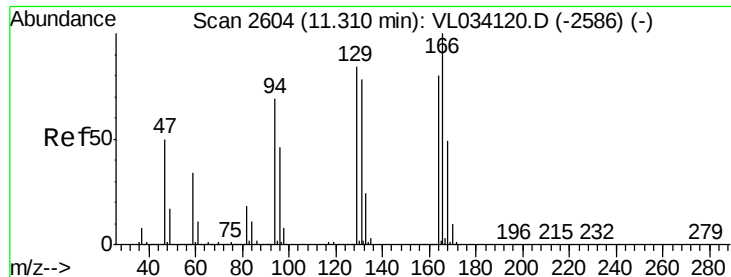
MMDadoda
 9/12/2019 5:17:03 AM



#51
 2-Hexanone
 Concen: 0.663 ppbv
 RT: 10.20 min Scan# 2307
 Delta R.T. -0.00 min
 Lab File: VL034151.D
 Acq: 10 Sep 2019 20:29

Tgt Ion	Ratio	Lower	Upper
43	100		
58	47.6	38.2	57.2
98	0.0	0.1	0.1#





#52

Tetrachloroethene

Concen: 0.869 ppbv m

RT: 11.30 min Scan# 2649

Delta R.T. -0.01 min

Lab File: VL034151.D

Acq: 10 Sep 2019 20:29

Instrument :

MSVOA_L

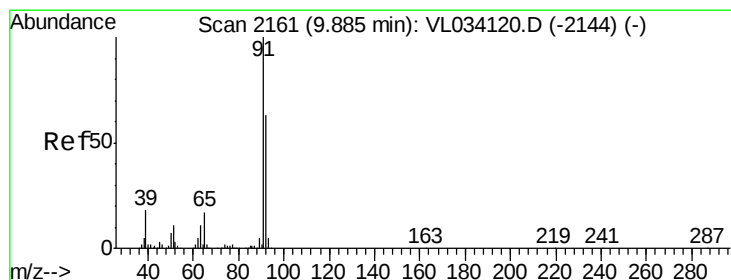
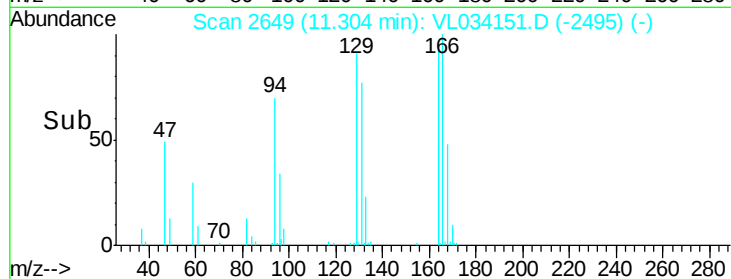
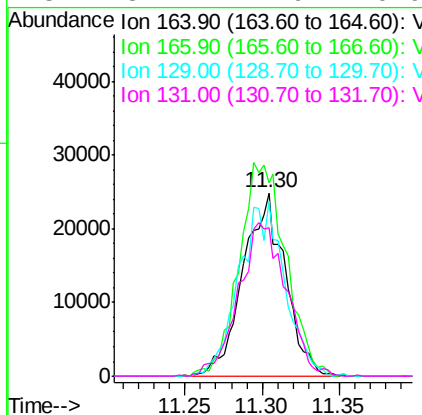
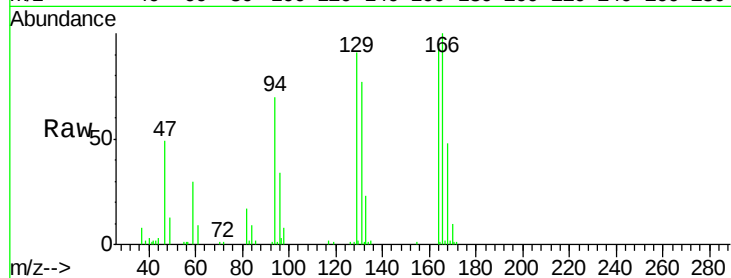
ClientSampled :

SV4DL

Tot Ion:	164	Resp:	47007
Ion	Ratio	Lower	Upper
164	100		
166	105.2	99.5	149.3
129	96.0	83.6	125.4
131	81.2	77.9	116.9

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MMDadoda
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#53

Toluene

Concen: 0.935 ppbv

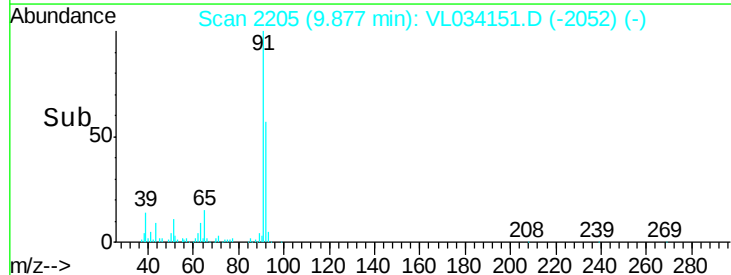
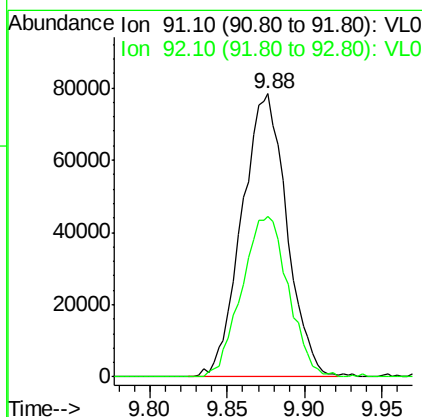
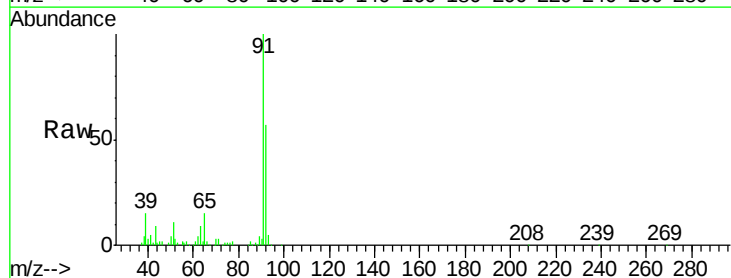
RT: 9.88 min Scan# 2205

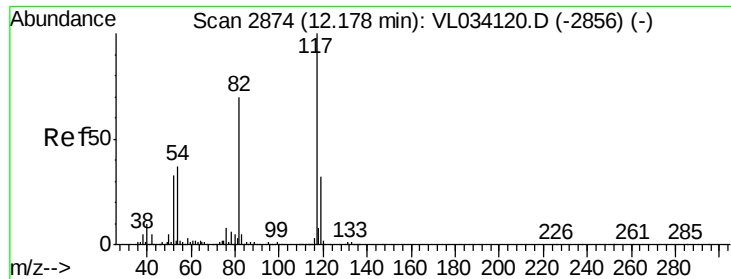
Delta R.T. -0.01 min

Lab File: VL034151.D

Acq: 10 Sep 2019 20:29

Tgt Ion:	91	Resp:	158635
Ion	Ratio	Lower	Upper
91	100		
92	58.7	49.3	73.9





#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.17 min Scan# 2917

Delta R.T. -0.01 min

Lab File: VL034151.D

Acq: 10 Sep 2019 20:29

Instrument :

MSVOA_L

ClientSampleId :

SV4DL

Tot Ion:117 Resp: 1314372

Ion Ratio Lower Upper

117 100

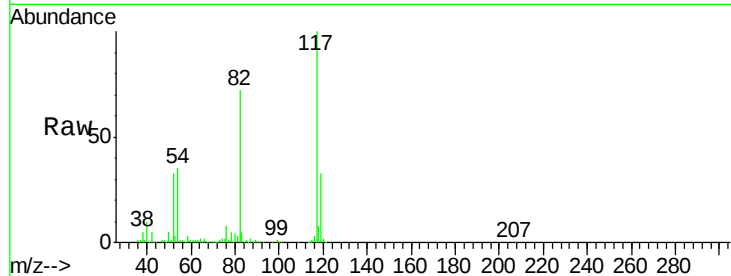
82 72.2 55.8 83.6

119 32.7 43.1 64.7#

Manual Integrations
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MMDadoda

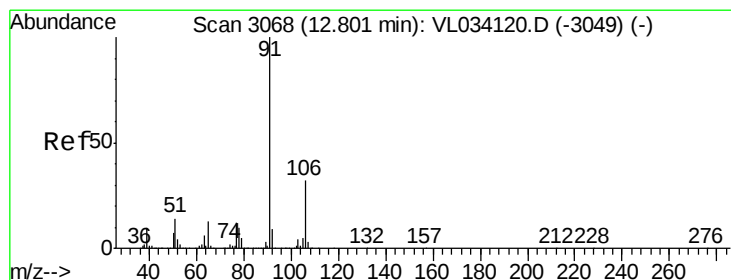
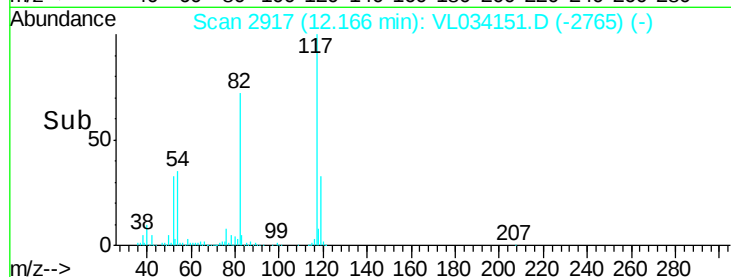
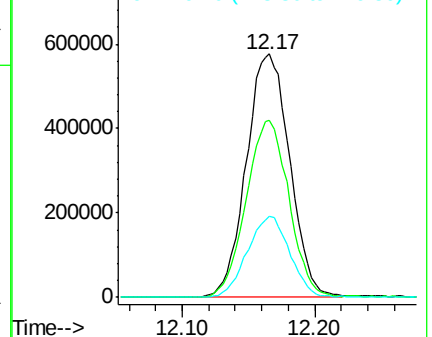
9/12/2019 5:17:03 AM



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



#58

Ethyl Benzene

Concen: 0.128 ppbv m

RT: 12.79 min Scan# 3112

Delta R.T. -0.01 min

Lab File: VL034151.D

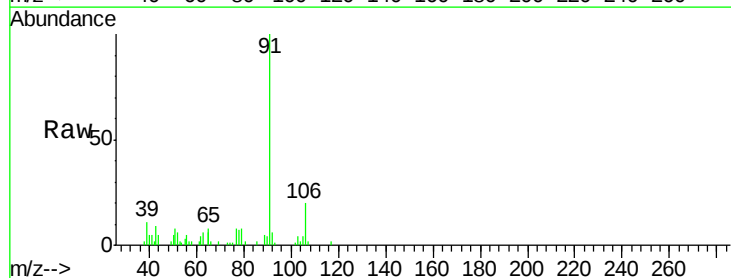
Acq: 10 Sep 2019 20:29

Tgt Ion: 91 Resp: 27611

Ion Ratio Lower Upper

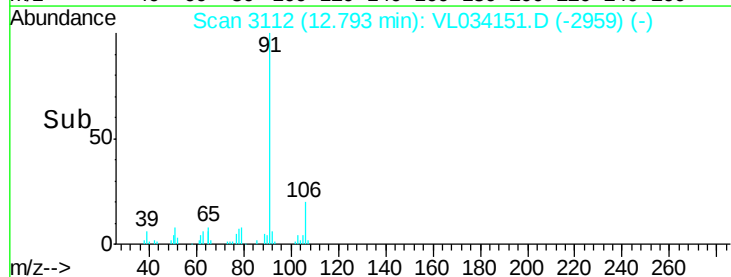
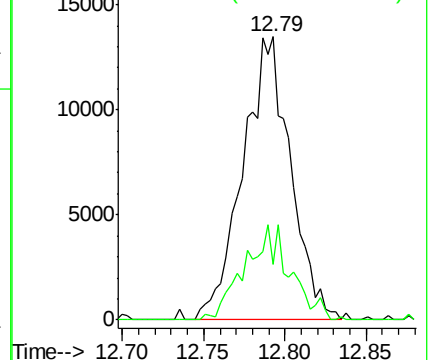
91 100

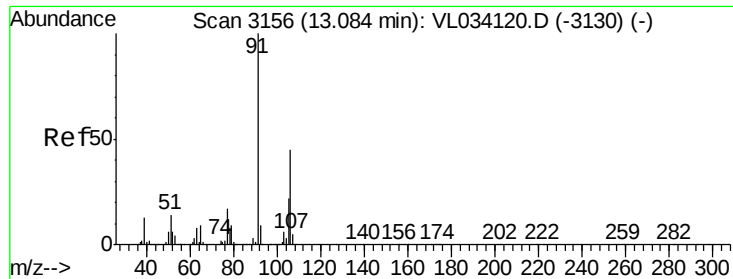
106 19.6 25.3 37.9#



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





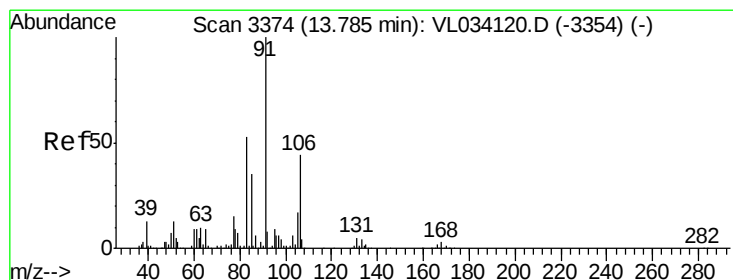
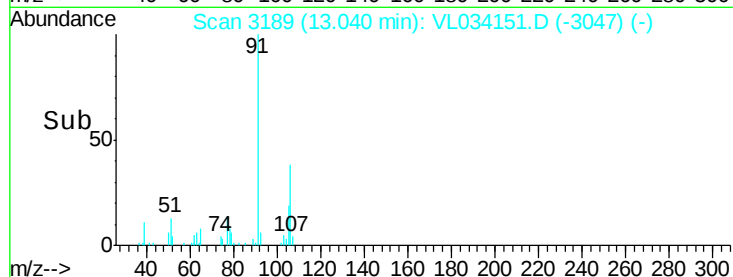
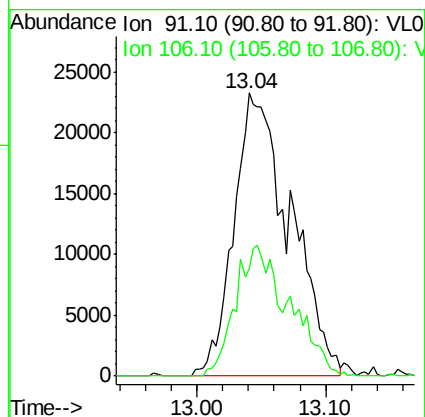
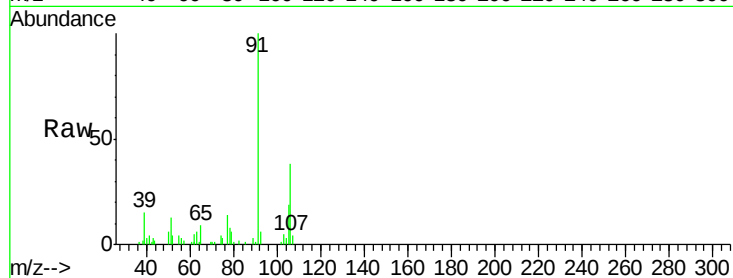
#59
m/p-Xylene
Concen: 0.403 ppbv m
RT: 13.04 min Scan# 3189
Delta R.T. -0.04 min
Lab File: VL034151.D
Acq: 10 Sep 2019 20:29

Instrument :
MSVOA_L
ClientSampled :
SV4DL

Tot Ion: 91 Resp: 70802
Ion Ratio Lower Upper
91 100
106 0.0 35.4 53.2#

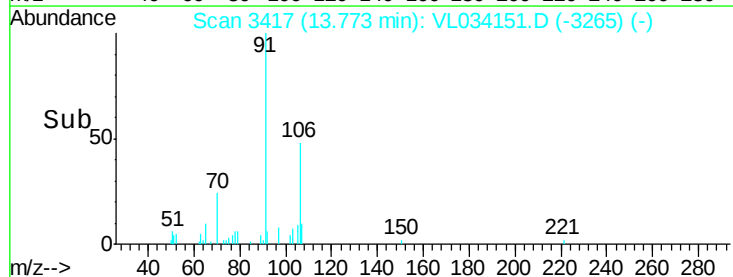
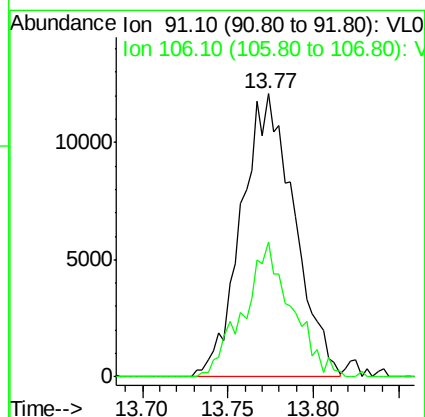
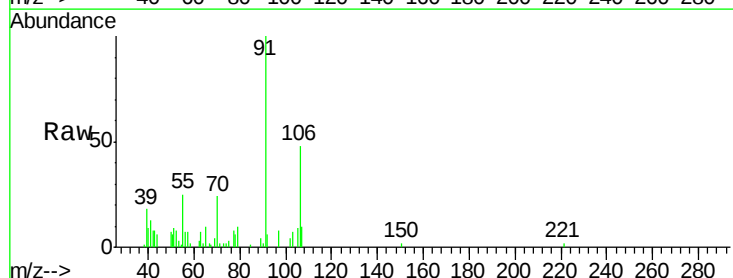
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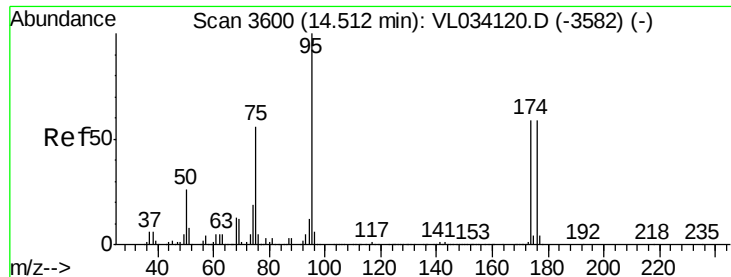
MMDadoda
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#60
o-Xylene
Concen: 0.148 ppbv m
RT: 13.77 min Scan# 3417
Delta R.T. -0.01 min
Lab File: VL034151.D
Acq: 10 Sep 2019 20:29

Tgt Ion: 91 Resp: 25961
Ion Ratio Lower Upper
91 100
106 43.3 21.4 64.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.204 ppbv

RT: 14.50 min Scan# 3644

Delta R.T. -0.01 min

Lab File: VL034151.D

Acq: 10 Sep 2019 20:29

Instrument :

MSVOA_L

ClientSampled :

SV4DL

Tot Ion: 95 Resp: 1096415

Ion Ratio Lower Upper

95 100

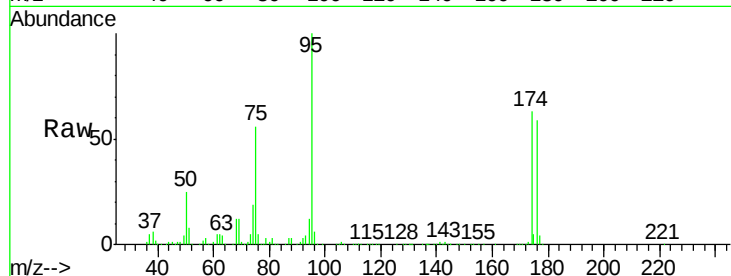
174 63.4 48.1 72.1

175 4.5 3.5 5.3

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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

14.50

400000

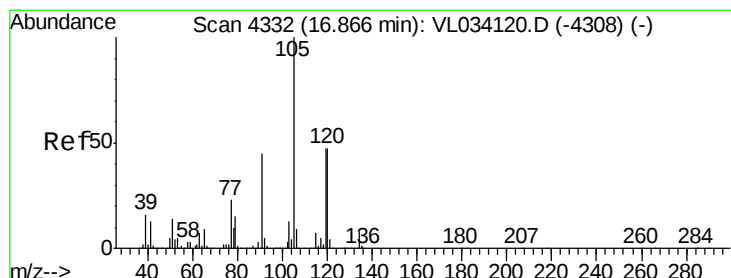
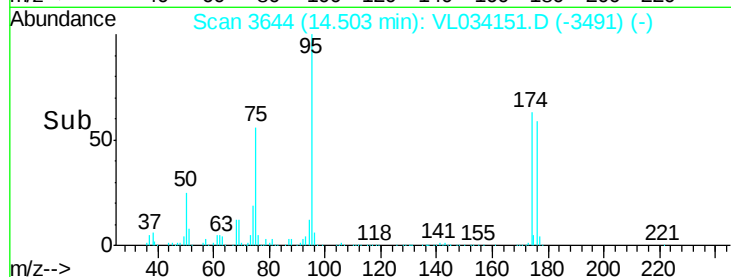
300000

200000

100000

0

Time--> 14.40 14.50



#74

1,2,4-Trimethylbenzene

Concen: 0.145 ppbv m

RT: 16.85 min Scan# 4374

Delta R.T. -0.02 min

Lab File: VL034151.D

Acq: 10 Sep 2019 20:29

Tgt Ion:105 Resp: 28681

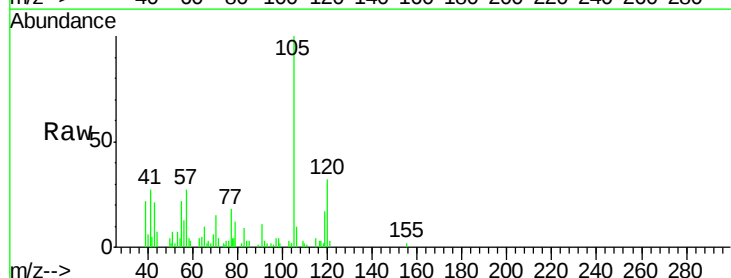
Ion Ratio Lower Upper

105 100

120 31.8 37.7 56.5#

91 11.0 36.2 54.2#

77 18.0 18.5 27.7#



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

16.85

15000

10000

5000

0

Time--> 16.75 16.80 16.85 16.90

