

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031020\
 Data File : VL034870.D
 Acq On : 10 Mar 2020 17:40
 Operator : SY/AP
 Sample : L1861-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-2

Manual Integrations
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 3/11/2020 3:17:27 PM

Quant Time: Mar 11 14:47:30 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar 0
 QLast Update : Mon Mar 09 16:42:53 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	894743	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	2005576	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1992995	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.45	95	1601121	10.30	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	18392m	0.150	ppbv	
3) Chlorodifluoromethane	2.95	51	25932	0.259	ppbv	99
4) Chloromethane	3.10	50	37927	0.671	ppbv #	88
9) Propene	2.97	41	426579m	8.939	ppbv	
10) Heptane	8.13	43	274830	2.340	ppbv	98
11) Trichlorofluoromethane	3.92	101	28905	0.222	ppbv	89
13) Ethanol	3.57	45	1668278	114.991	ppbv	94
15) Acetone	3.82	43	1640394m	14.145	ppbv	
19) Isopropyl Alcohol	3.94	45	281003	3.837	ppbv #	1
20) Methylene Chloride	4.32	84	36412	0.993	ppbv #	83
26) Hexane	5.68	57	393333	4.421	ppbv #	41
27) Carbon Disulfide	4.52	76	22773	0.226	ppbv #	65
30) Cyclohexane	7.13	84	84988	1.145	ppbv	91
34) 2-Butanone	5.23	43	112030	0.841	ppbv	99
36) Benzene	6.89	78	276959	1.549	ppbv	96
44) 2,2,4-Trimethylpentane	7.88	57	652802	2.161	ppbv	89
52) Tetrachloroethene	11.25	164	16860m	0.238	ppbv	
53) Toluene	9.82	91	1252326	6.066	ppbv	99
58) Ethyl Benzene	12.74	91	288884	1.070	ppbv	99
59) m/p-Xylene	12.99	91	786455	3.478	ppbv	98
60) o-Xylene	13.72	91	275852	1.249	ppbv	96
72) 4-Ethyltoluene	15.88	105	131348m	0.504	ppbv	
73) 1,3,5-Trimethylbenzene	16.03	105	92661m	0.380	ppbv	
74) 1,2,4-Trimethylbenzene	16.80	105	380405	1.513	ppbv #	75

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

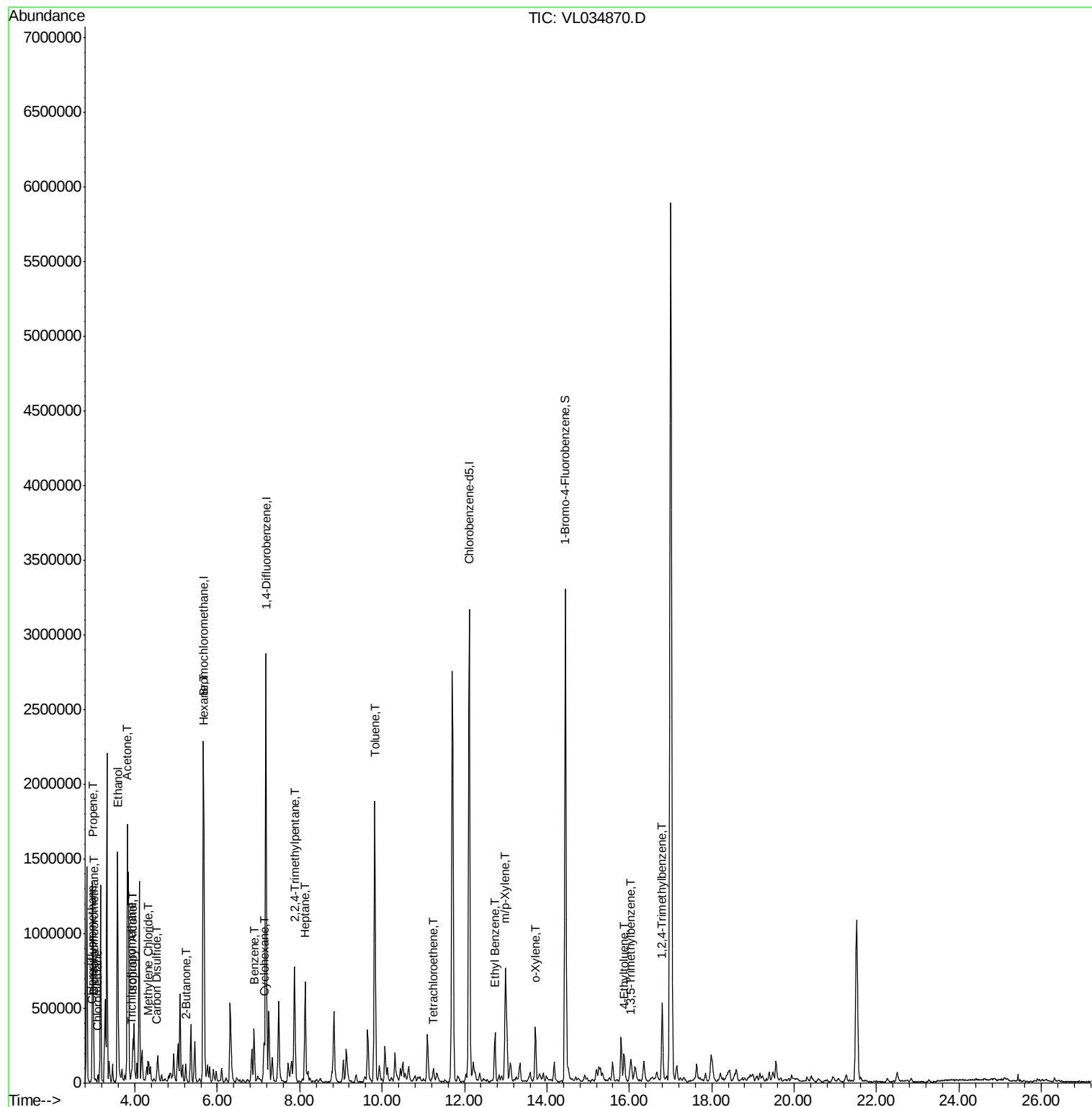
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031020\
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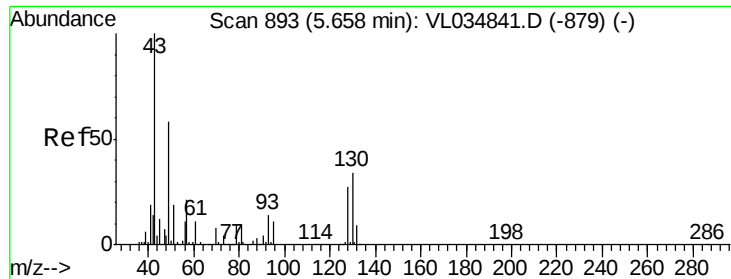
Instrument :
MSVOA_L
ClientSampleId :
AA-2

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Quant Time: Mar 11 14:47:30 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL030920AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Mon Mar
QLast Update : Mon Mar 09 16:42:53 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 893

Delta R.T. 0.00 min

Lab File: VL034870.D

Acq: 10 Mar 2020 17:40

Instrument :

MSVOA_L

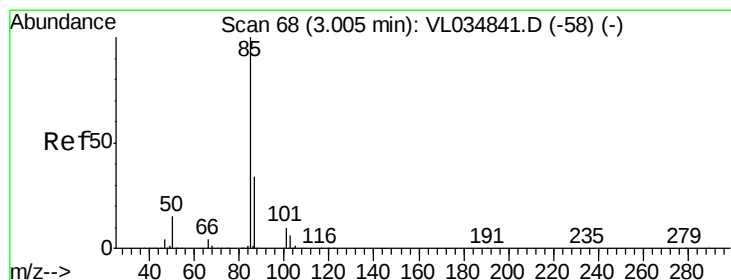
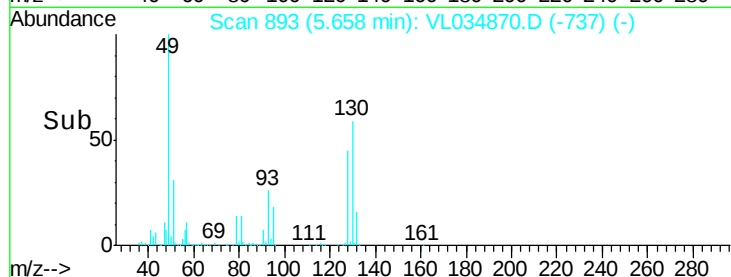
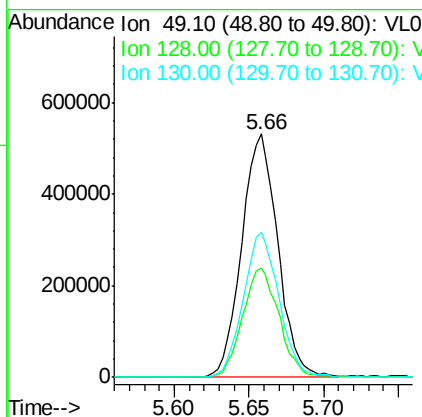
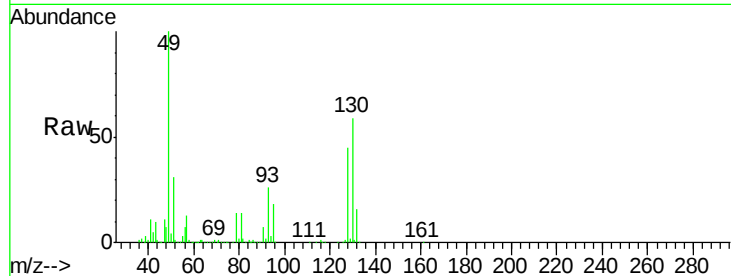
ClientSampleId :

AA-2

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.5	23.4	70.3
130	59.6	30.0	90.0

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#2

Dichlorodifluoromethane

Concen: 0.150 ppbv m

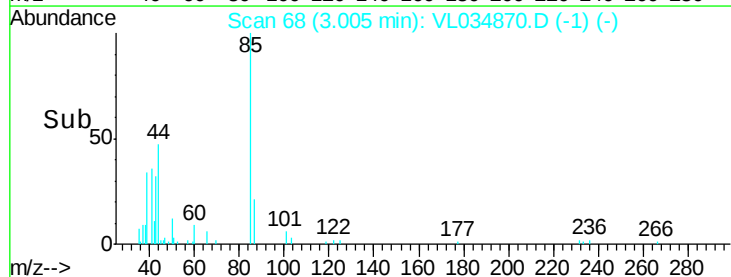
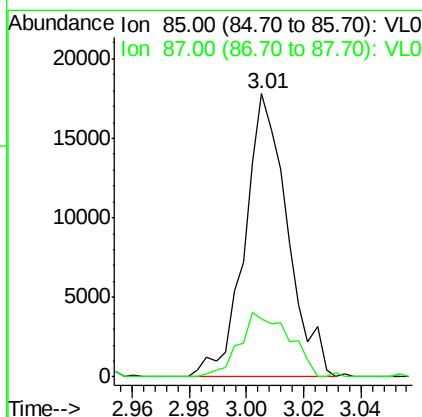
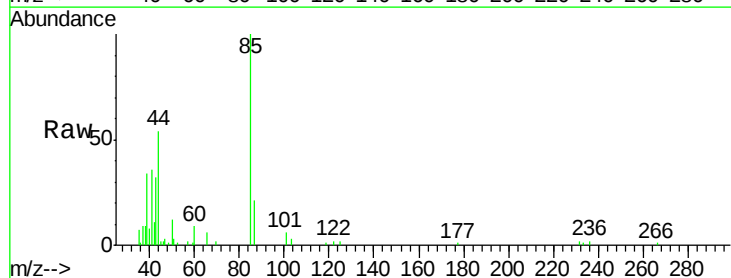
RT: 3.01 min Scan# 68

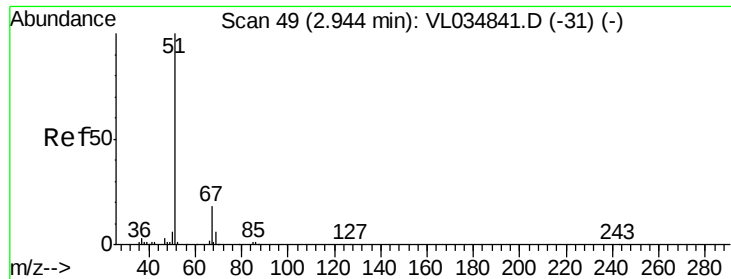
Delta R.T. 0.00 min

Lab File: VL034870.D

Acq: 10 Mar 2020 17:40

Tgt Ion	Ratio	Lower	Upper
85	100		
87	20.7	26.9	40.3





#3

Chlorodifluoromethane

Concen: 0.259 ppbv

RT: 2.95 min Scan# 50

Delta R.T. 0.00 min

Lab File: VL034870.D

Acq: 10 Mar 2020 17:40

Instrument :

MSVOA_L

ClientSampleId :

AA-2

Tot Ion: 51 Resp: 25932

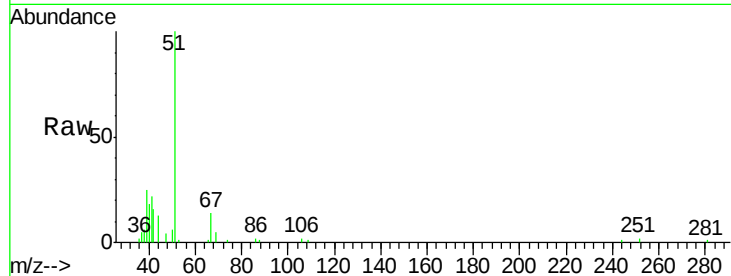
Ion Ratio Lower Upper

51 100

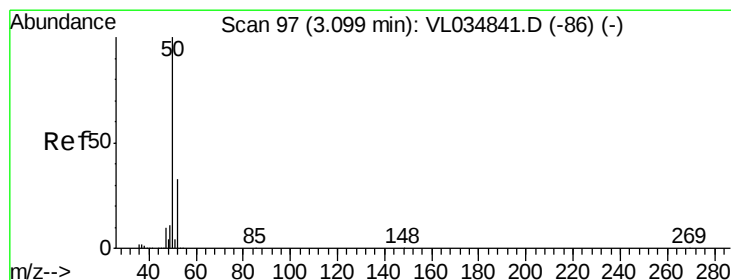
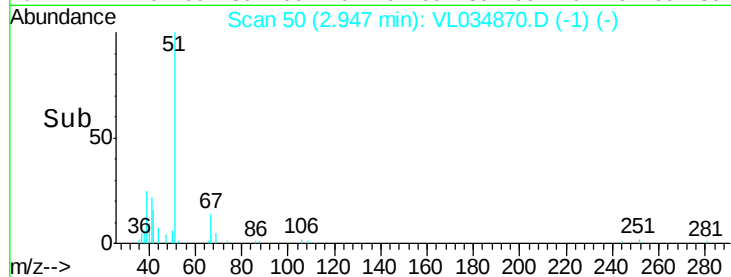
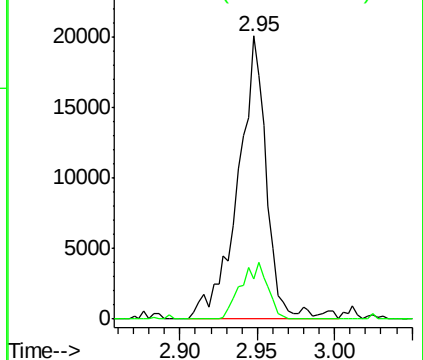
67 18.4 14.3 21.5

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Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.671 ppbv

RT: 3.10 min Scan# 97

Delta R.T. 0.00 min

Lab File: VL034870.D

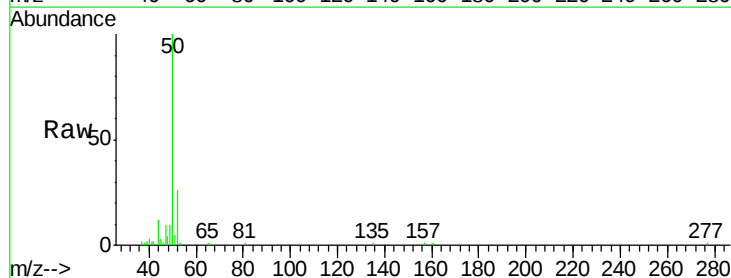
Acq: 10 Mar 2020 17:40

Tgt Ion: 50 Resp: 37927

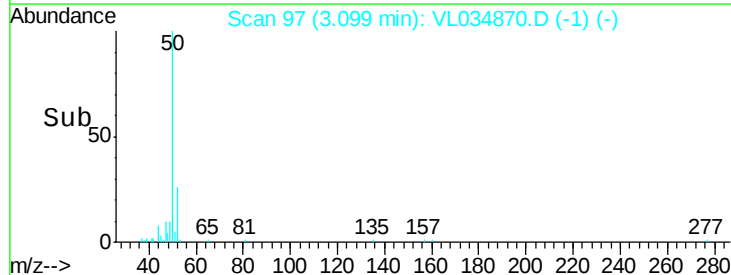
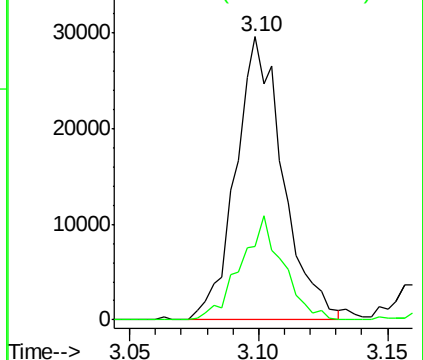
Ion Ratio Lower Upper

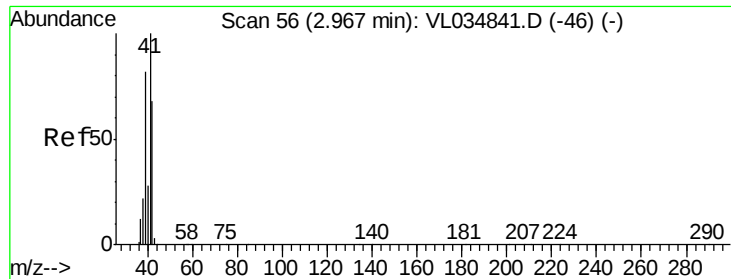
50 100

52 26.4 26.8 40.2#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





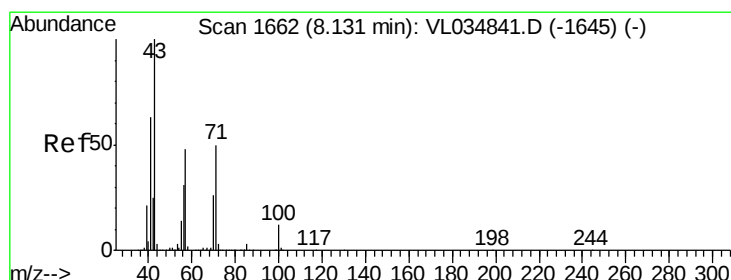
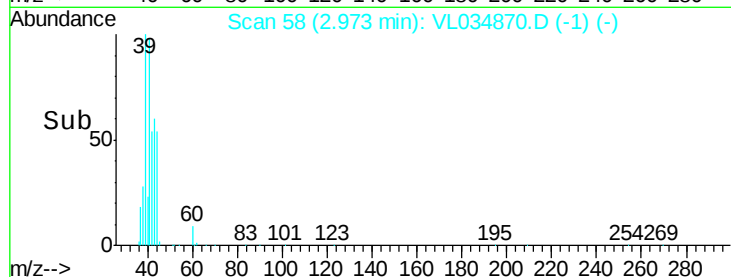
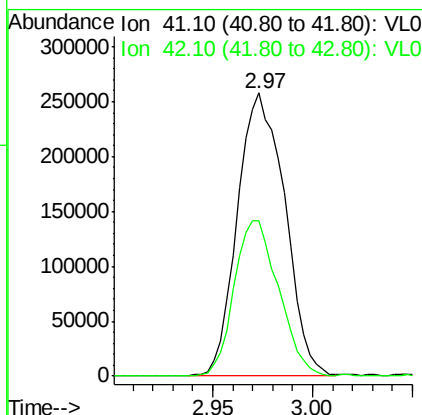
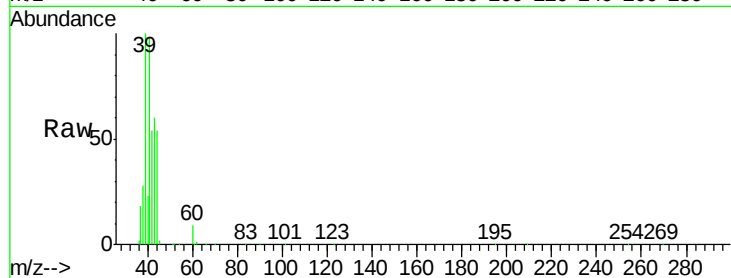
#9
 Propene
 Concen: 8.939 ppbv m
 RT: 2.97 min Scan# 58
 Delta R.T. 0.01 min
 Lab File: VL034870.D
 Acq: 10 Mar 2020 17:40

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-2

Tot Ion: 41 Resp: 426579
 Ion Ratio Lower Upper
 41 100
 42 51.7 55.2 82.8#

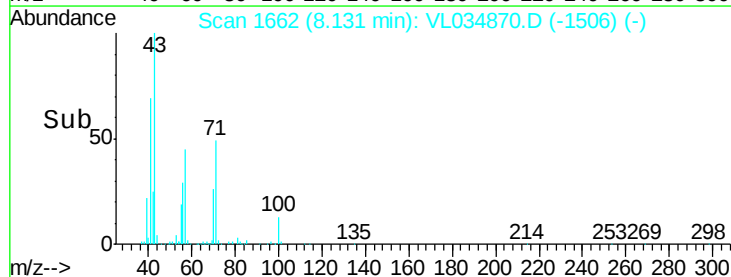
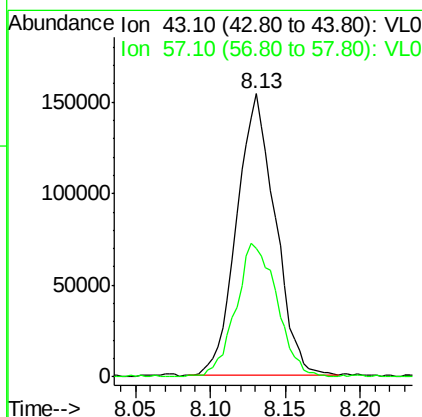
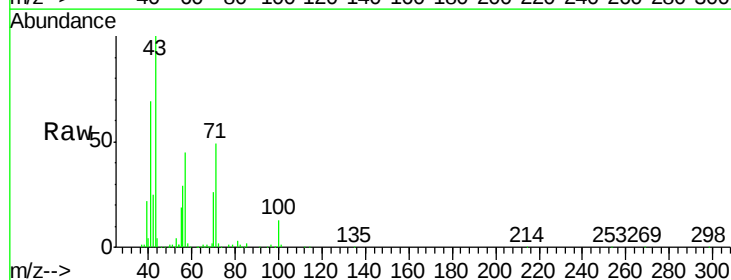
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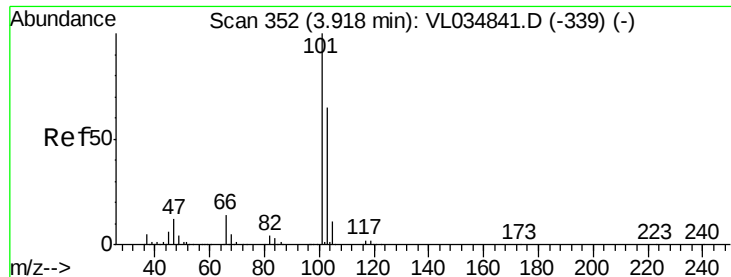
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#10
 Heptane
 Concen: 2.340 ppbv
 RT: 8.13 min Scan# 1662
 Delta R.T. 0.00 min
 Lab File: VL034870.D
 Acq: 10 Mar 2020 17:40

Tgt Ion: 43 Resp: 274830
 Ion Ratio Lower Upper
 43 100
 57 51.1 39.7 59.5





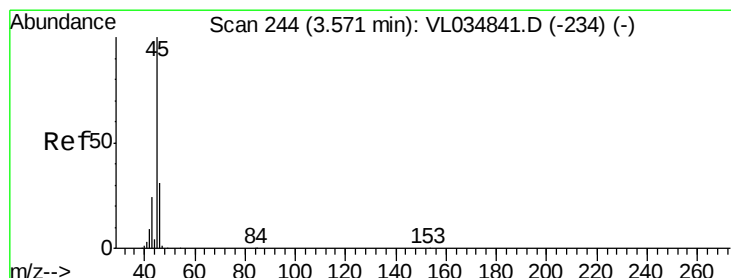
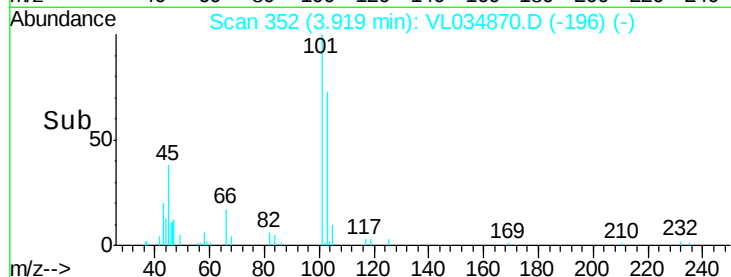
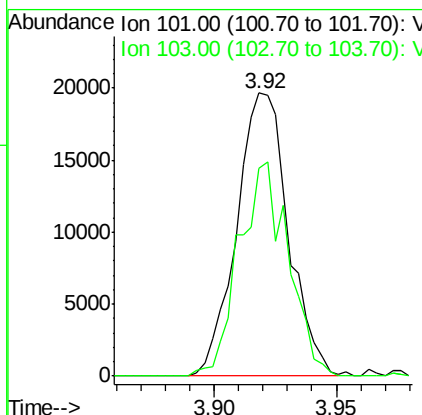
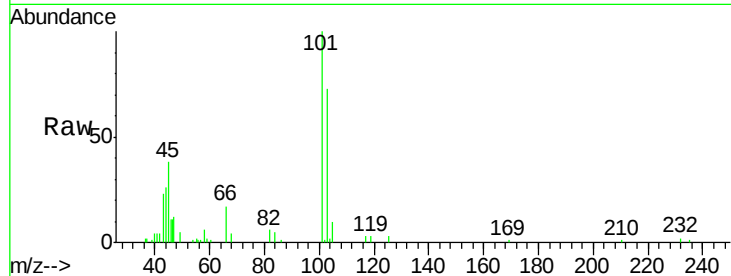
#11
 Trichlorofluoromethane
 Concen: 0.222 ppbv
 RT: 3.92 min Scan# 352
 Delta R.T. 0.00 min
 Lab File: VL034870.D
 Acq: 10 Mar 2020 17:40

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-2

Tot Ion:101 Resp: 28905
 Ion Ratio Lower Upper
 101 100
 103 73.4 51.8 77.8

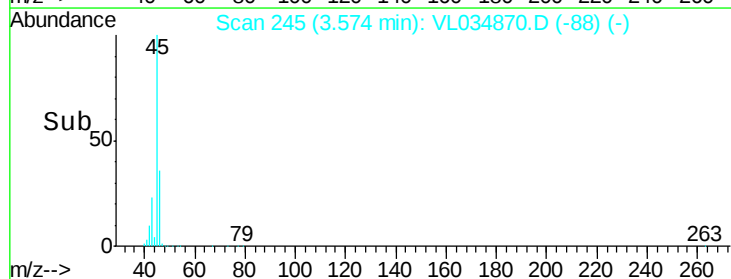
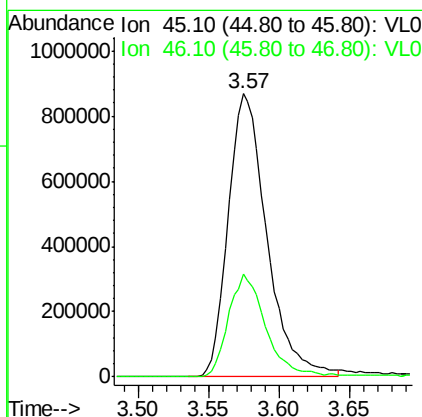
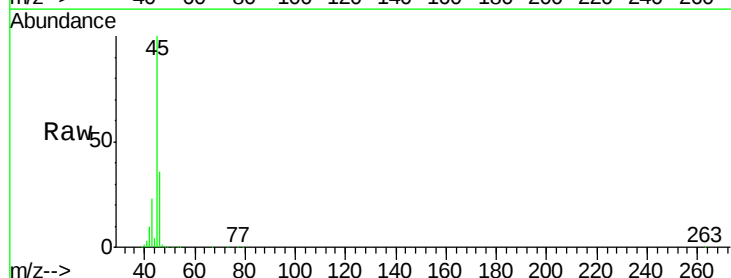
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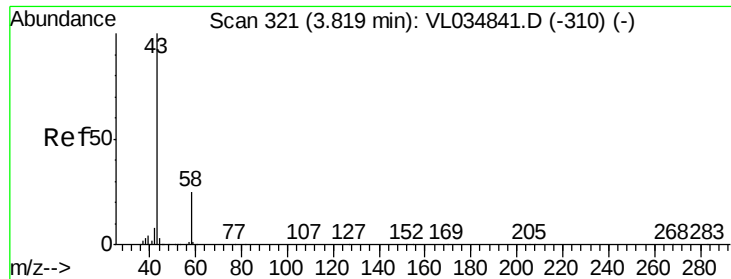
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#13
 Ethanol
 Concen: 114.991 ppbv
 RT: 3.57 min Scan# 245
 Delta R.T. 0.00 min
 Lab File: VL034870.D
 Acq: 10 Mar 2020 17:40

Tgt Ion: 45 Resp: 1668278
 Ion Ratio Lower Upper
 45 100
 46 36.0 16.0 64.0





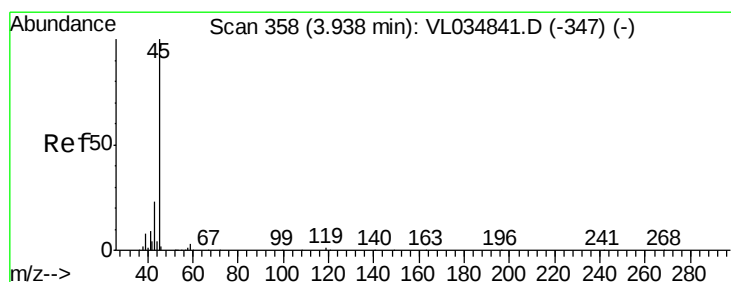
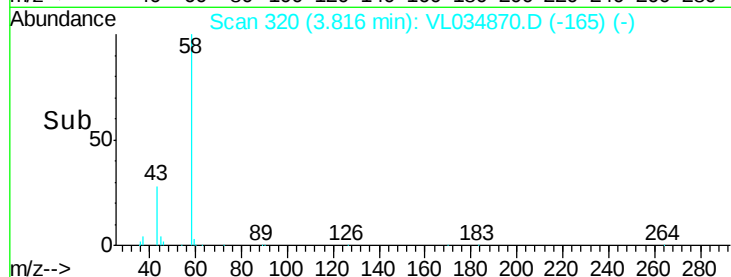
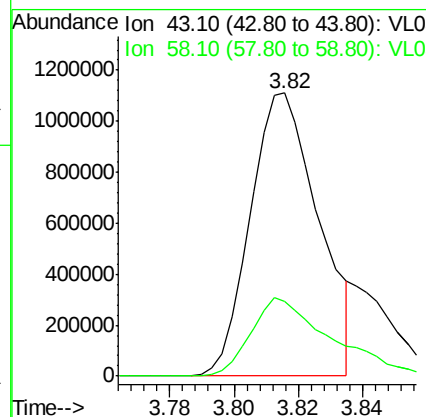
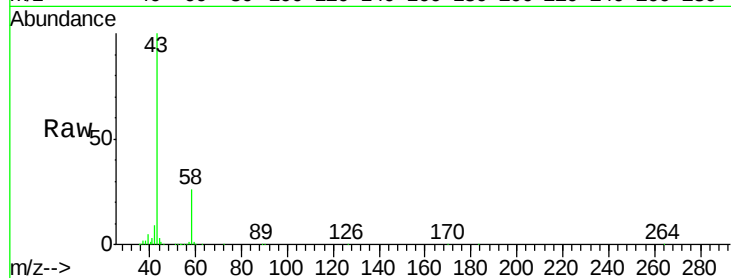
#15
Acetone
Concen: 14.145 ppbv m
RT: 3.82 min Scan# 320
Delta R.T. -0.00 min
Lab File: VL034870.D
Acq: 10 Mar 2020 17:40

Instrument :
MSVOA_L
ClientSampleId :
AA-2

Tot Ion: 43 Resp: 1640394
Ion Ratio Lower Upper
43 100
58 33.0 21.0 31.6#

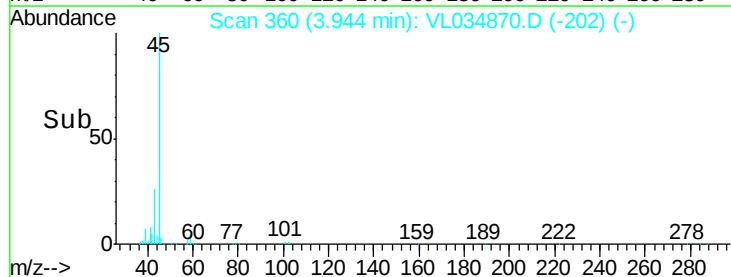
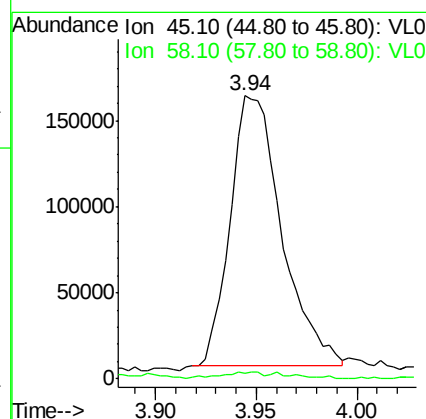
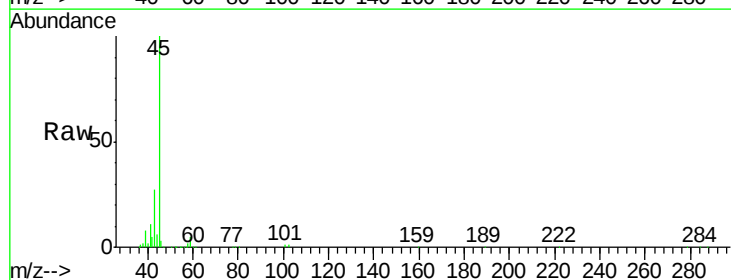
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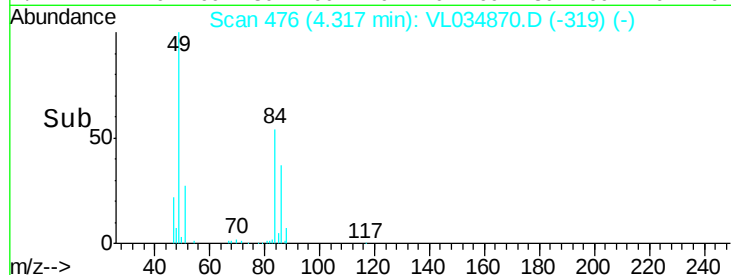
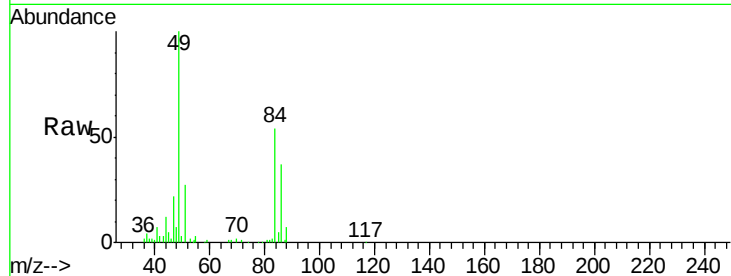
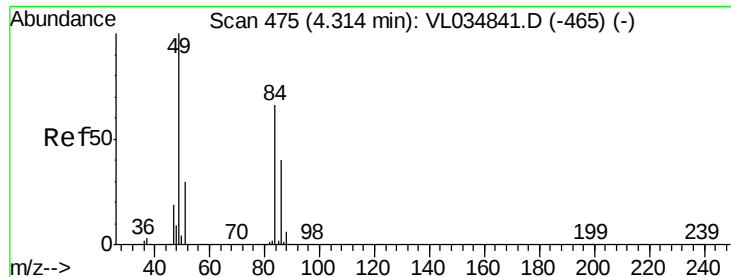
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#19
Isopropyl Alcohol
Concen: 3.837 ppbv
RT: 3.94 min Scan# 360
Delta R.T. 0.01 min
Lab File: VL034870.D
Acq: 10 Mar 2020 17:40

Tgt Ion: 45 Resp: 281003
Ion Ratio Lower Upper
45 100
58 192.7 30.5 45.7#





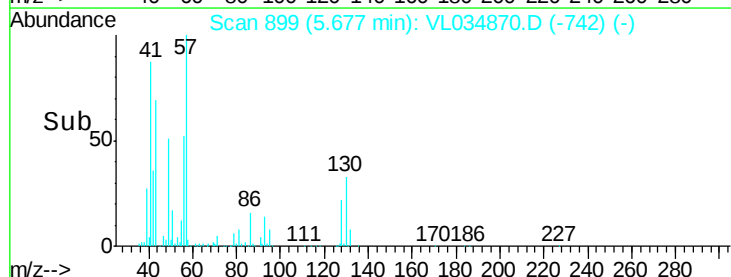
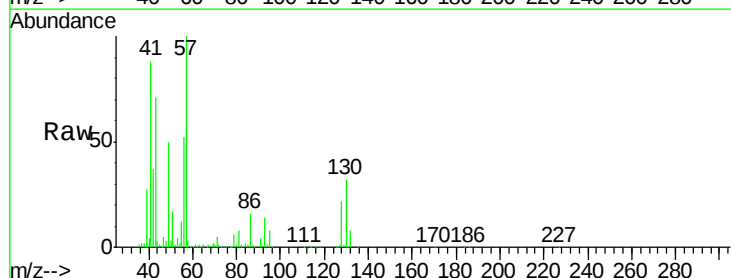
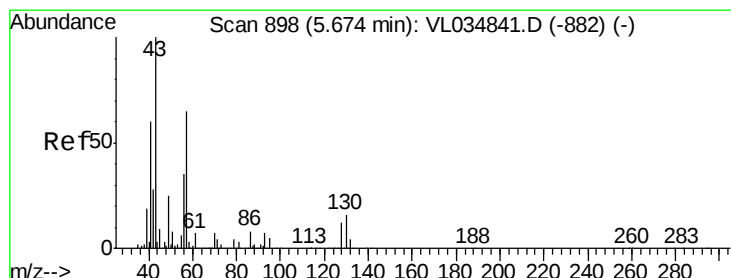
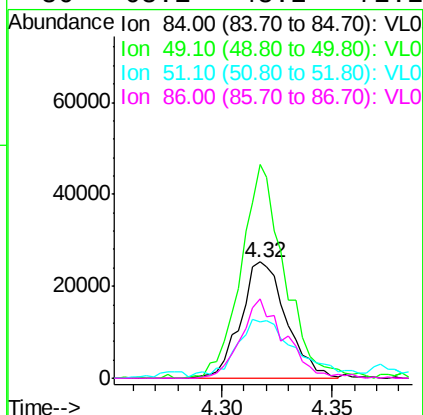
#20
Methvlene Chloride
Concen: 0.993 ppbv
RT: 4.32 min Scan# 476
Delta R.T. 0.00 min
Lab File: VL034870.D
Acq: 10 Mar 2020 17:40

Tot Ion	Ratio	Lower	Upper
84	100		
49	182.9	121.5	182.3#
51	48.0	36.6	55.0
86	68.1	48.2	72.2

Instrument :
MSVOA_L
ClientSampleId :
AA-2

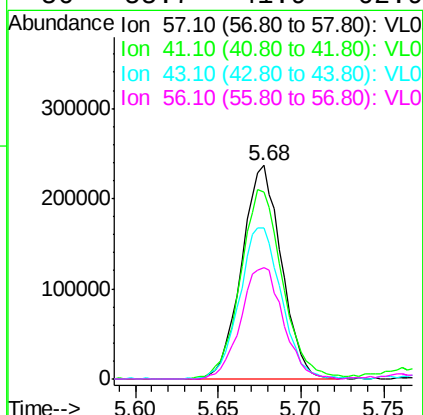
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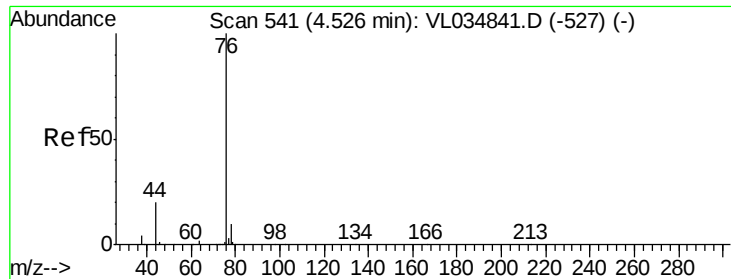
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#26
Hexane
Concen: 4.421 ppbv
RT: 5.68 min Scan# 899
Delta R.T. 0.00 min
Lab File: VL034870.D
Acq: 10 Mar 2020 17:40

Tgt Ion	Ratio	Lower	Upper
57	100		
41	94.5	72.6	109.0
43	75.3	183.8	275.6#
56	55.7	41.9	62.9





#27

Carbon Disulfide

Concen: 0.226 ppbv

RT: 4.52 min Scan# 540

Delta R.T. -0.00 min

Lab File: VL034870.D

Acq: 10 Mar 2020 17:40

Instrument :

MSVOA_L

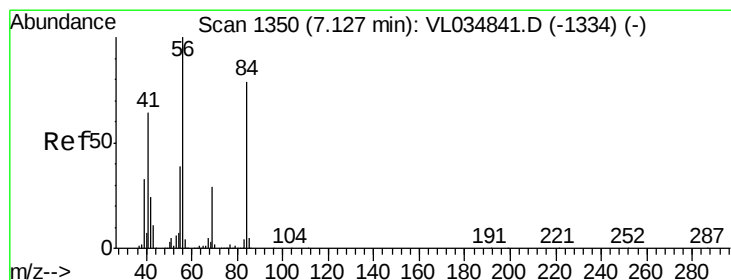
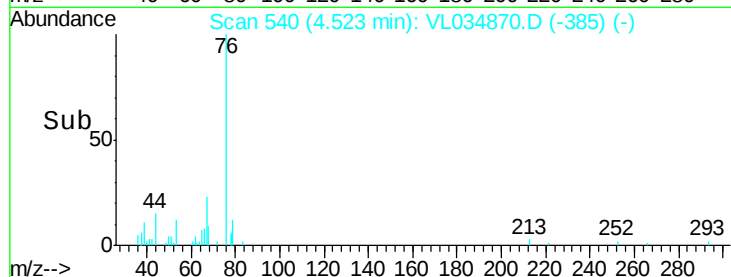
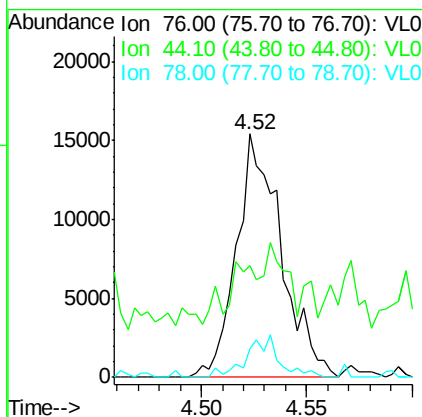
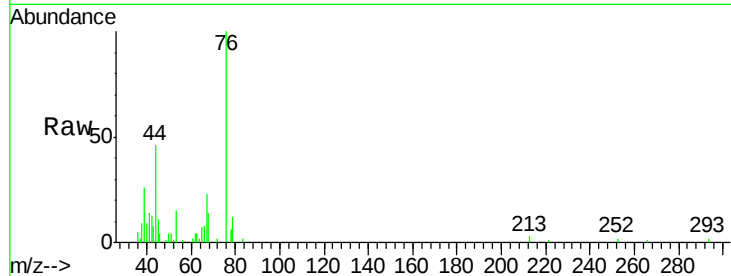
ClientSampleId :

AA-2

Tot Ion:	76	Resp:	22773
Ion	Ratio	Lower	Upper
76	100		
44	41.2	16.2	24.2#
78	14.1	7.8	11.6#

Manual Integrations
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#30

Cyclohexane

Concen: 1.145 ppbv

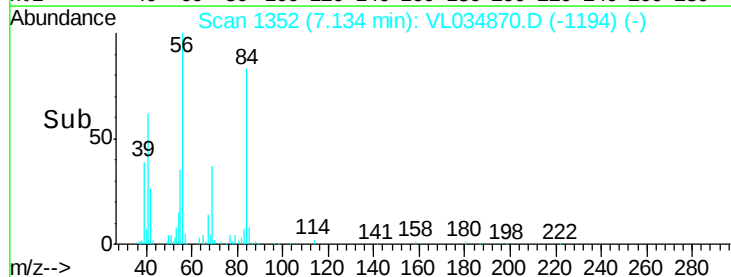
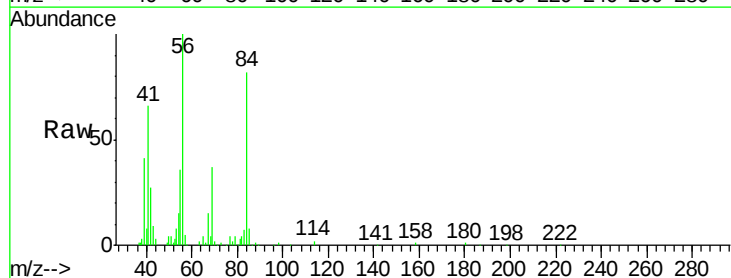
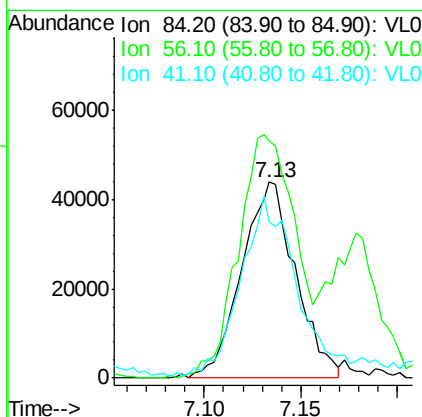
RT: 7.13 min Scan# 1352

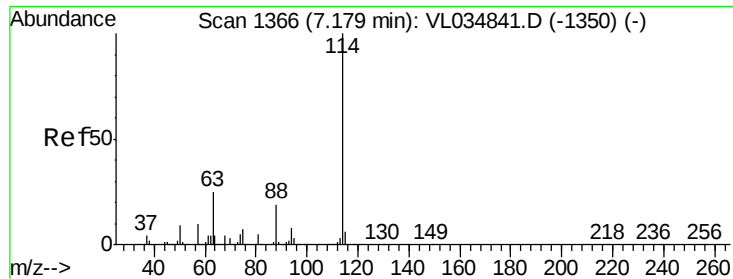
Delta R.T. 0.01 min

Lab File: VL034870.D

Acq: 10 Mar 2020 17:40

Tgt Ion:	84	Resp:	84988
Ion	Ratio	Lower	Upper
84	100		
56	145.0	110.5	165.7
41	97.8	68.2	102.4





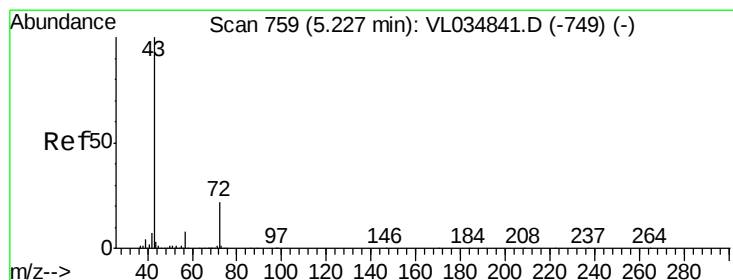
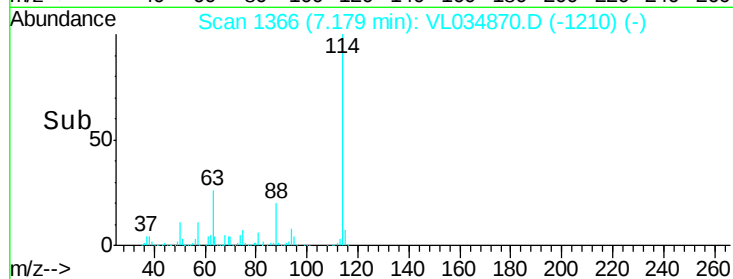
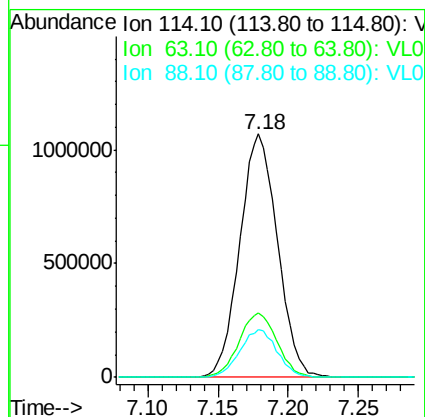
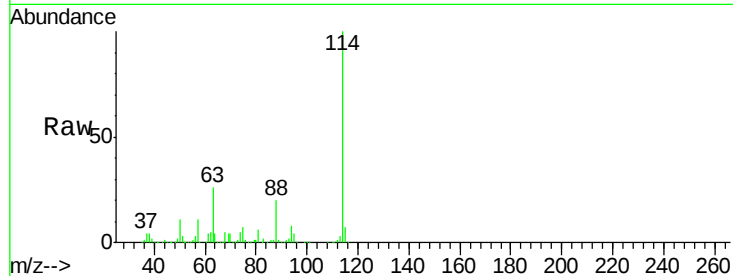
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1366
 Delta R.T. 0.00 min
 Lab File: VL034870.D
 Acq: 10 Mar 2020 17:40

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-2

Tot Ion:114 Resp: 2005576
 Ion Ratio Lower Upper
 114 100
 63 26.8 20.6 31.0
 88 19.3 15.0 22.6

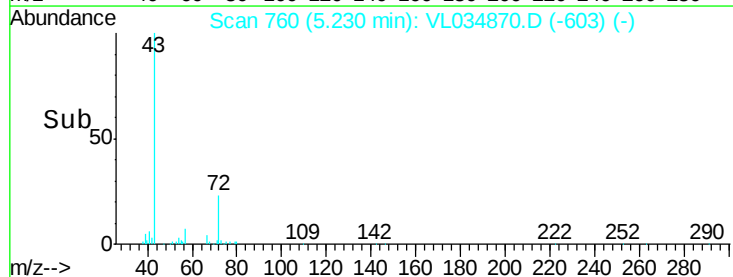
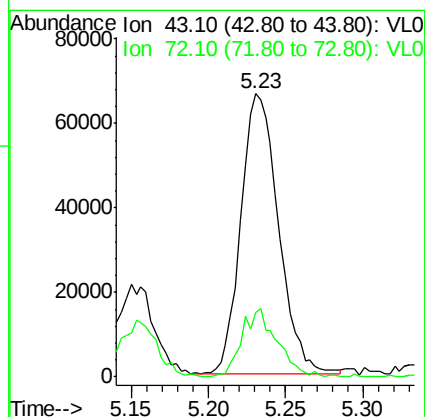
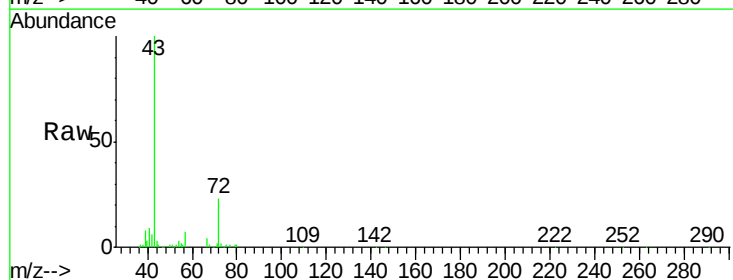
Manual Integrations
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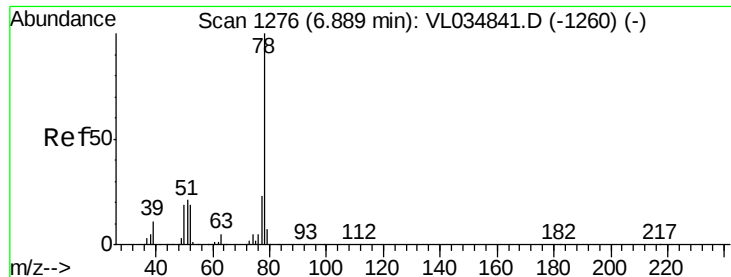
MMDadoda
 3/11/2020 3:17:27 PM



#34
 2-Butanone
 Concen: 0.841 ppbv
 RT: 5.23 min Scan# 760
 Delta R.T. 0.00 min
 Lab File: VL034870.D
 Acq: 10 Mar 2020 17:40

Tgt Ion: 43 Resp: 112030
 Ion Ratio Lower Upper
 43 100
 72 22.6 17.6 26.4





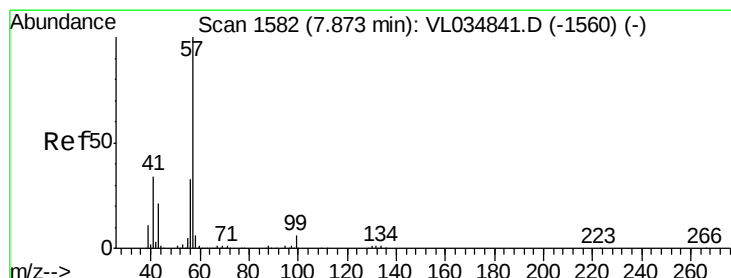
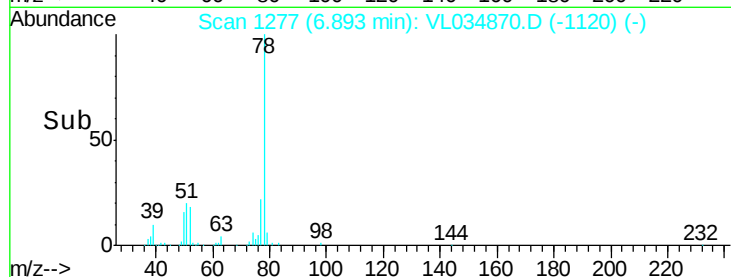
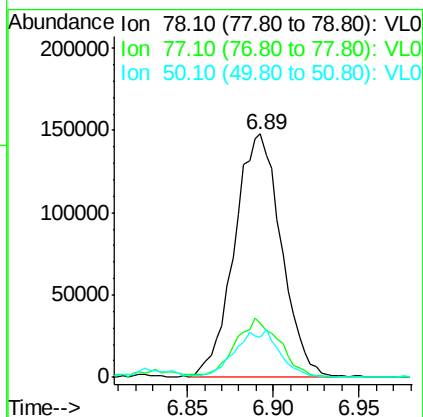
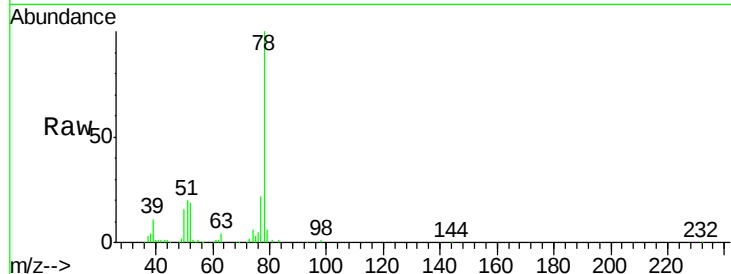
#36
Benzene
Concen: 1.549 ppbv
RT: 6.89 min Scan# 1277
Delta R.T. 0.00 min
Lab File: VL034870.D
Acq: 10 Mar 2020 17:40

Instrument :
MSVOA_L
ClientSampleId :
AA-2

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.1	18.2	27.2
50	16.2	15.2	22.8

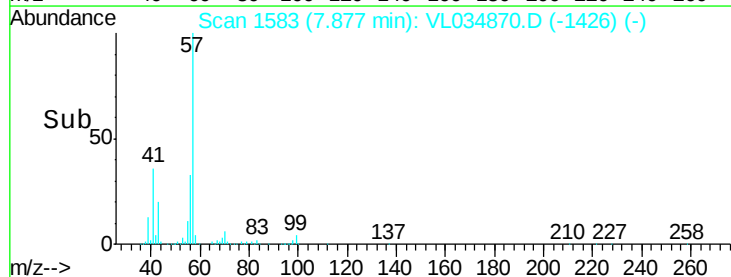
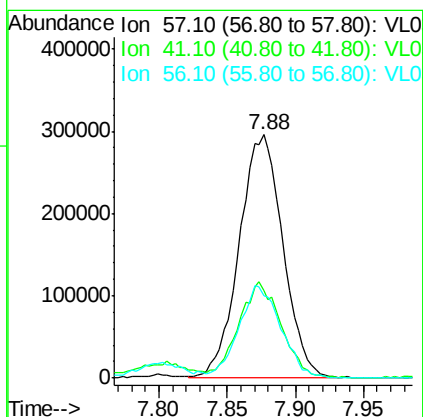
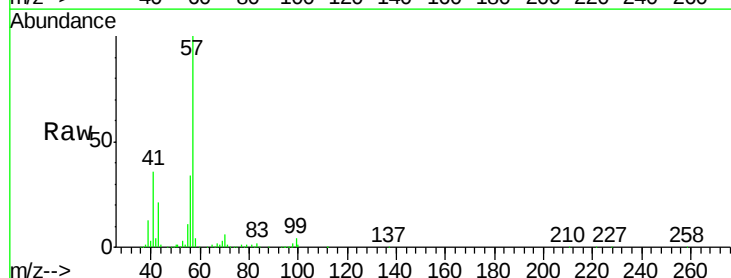
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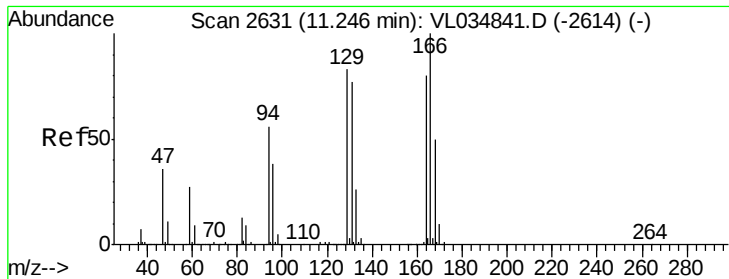
MMDadoda
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#44
2,2,4-Trimethylpentane
Concen: 2.161 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. 0.00 min
Lab File: VL034870.D
Acq: 10 Mar 2020 17:40

Tgt Ion	Ratio	Lower	Upper
57	100		
41	39.0	26.2	39.4
56	37.0	25.0	37.4





#52

Tetrachloroethene

Concen: 0.238 ppbv m

RT: 11.25 min Scan# 2631

Delta R.T. 0.00 min

Lab File: VL034870.D

Acq: 10 Mar 2020 17:40

Instrument :

MSVOA_L

ClientSampleId :

AA-2

Tot Ion:164 Resp: 16860

Ion Ratio Lower Upper

164 100

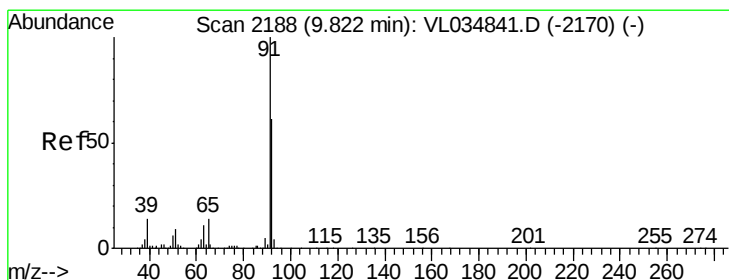
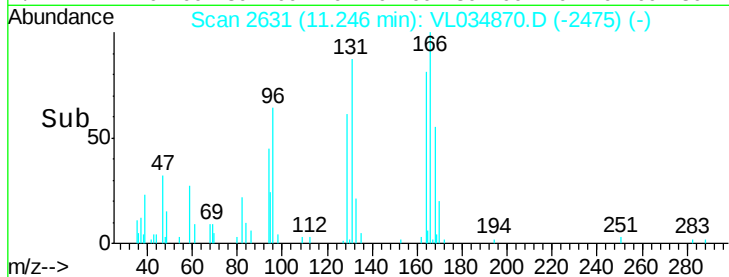
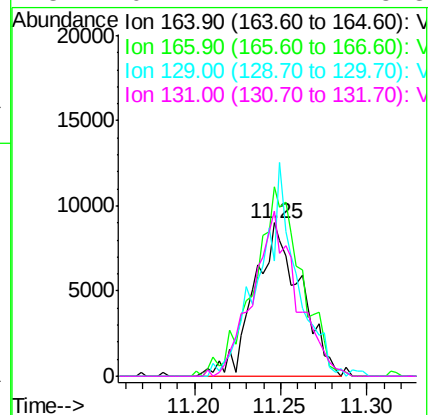
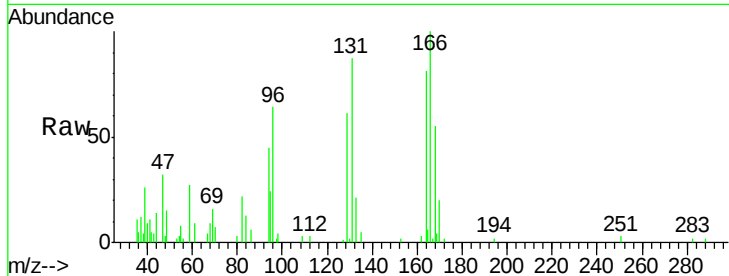
166 123.6 100.0 150.0

129 75.1 83.1 124.7#

131 107.4 77.2 115.8

Manual Integrations
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3/11/2020 3:17:27 PM



#53

Toluene

Concen: 6.066 ppbv

RT: 9.82 min Scan# 2188

Delta R.T. 0.00 min

Lab File: VL034870.D

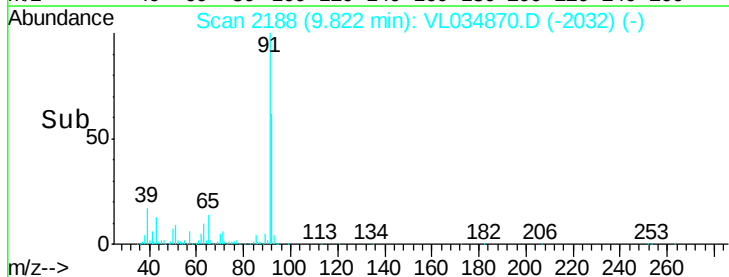
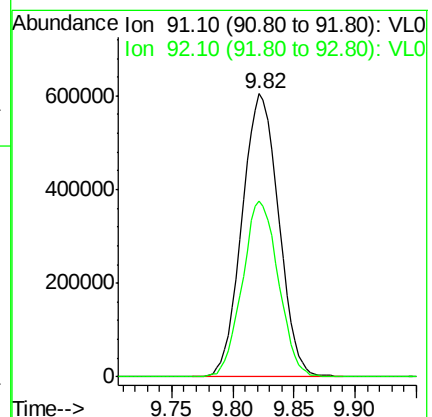
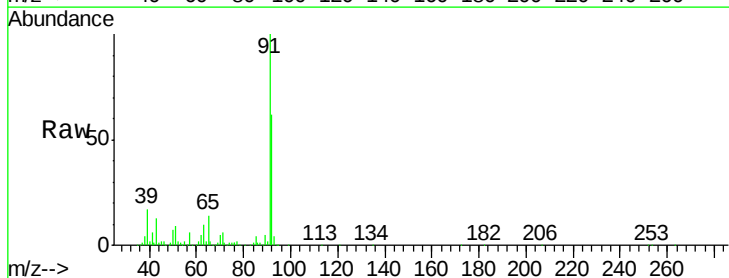
Acq: 10 Mar 2020 17:40

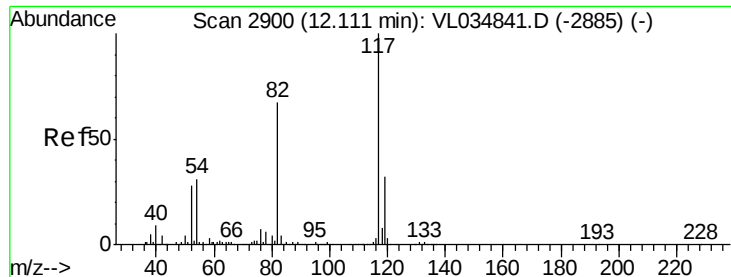
Tgt Ion: 91 Resp: 1252326

Ion Ratio Lower Upper

91 100

92 61.4 48.6 72.8





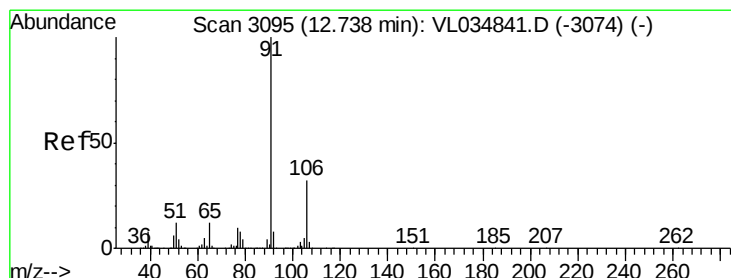
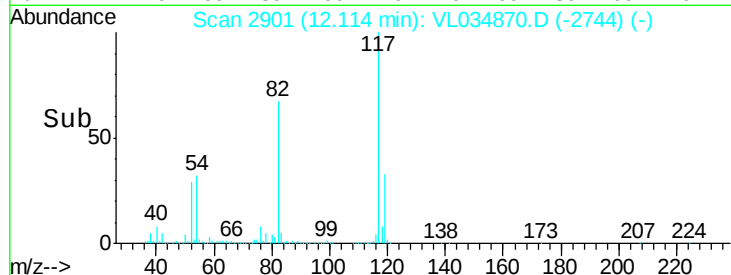
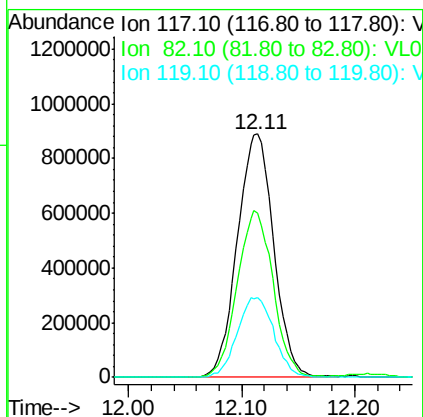
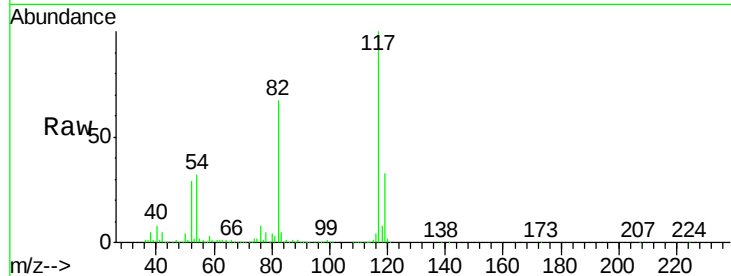
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.11 min Scan# 2901
Delta R.T. 0.00 min
Lab File: VL034870.D
Acq: 10 Mar 2020 17:40

Instrument :
MSVOA_L
ClientSampleId :
AA-2

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.6	51.1	76.7
119	33.3	27.3	40.9

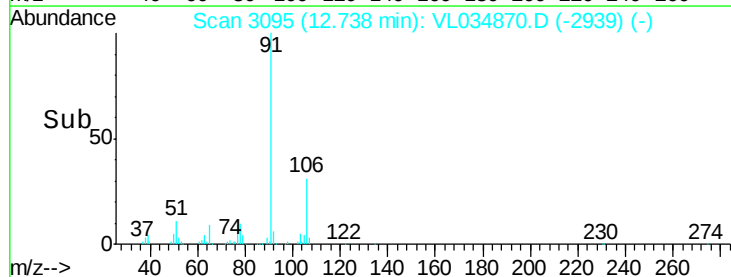
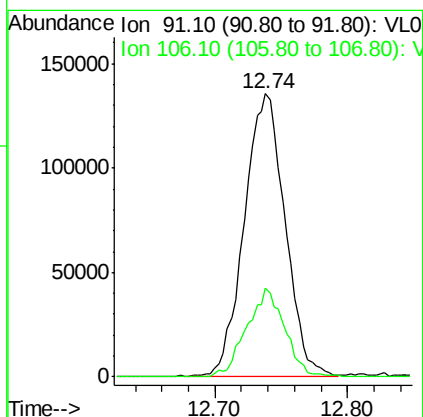
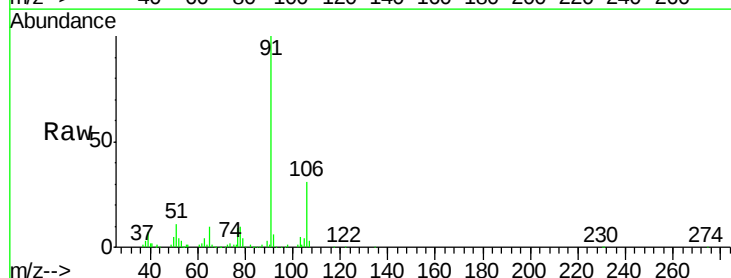
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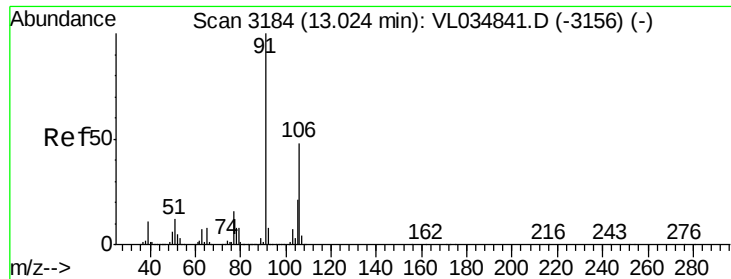
MMDadoda
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#58
Ethyl Benzene
Concen: 1.070 ppbv
RT: 12.74 min Scan# 3095
Delta R.T. 0.00 min
Lab File: VL034870.D
Acq: 10 Mar 2020 17:40

Tgt Ion	Ratio	Lower	Upper
91	100		
106	31.4	25.8	38.6





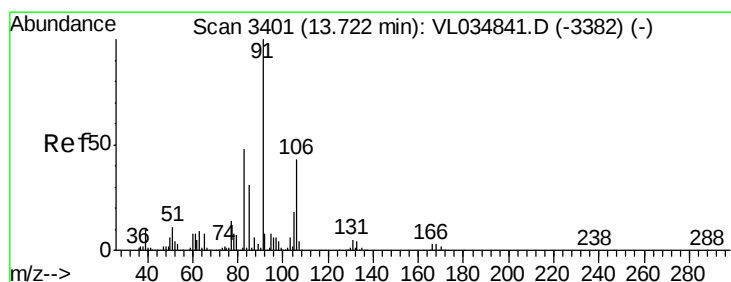
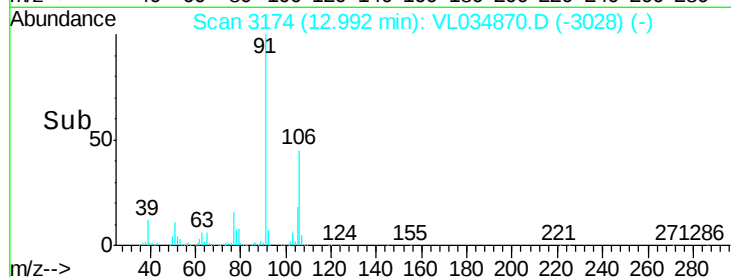
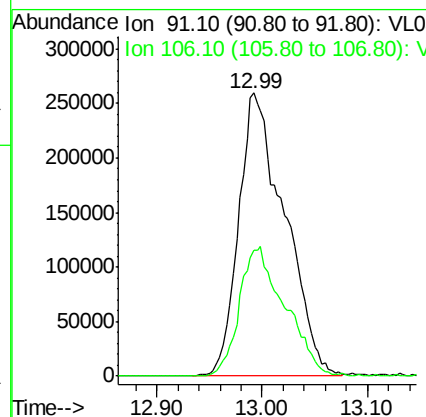
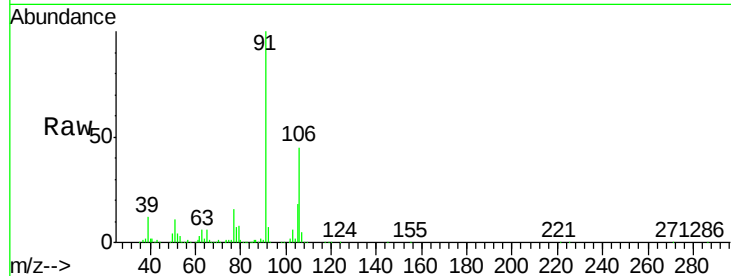
#59
m/p-Xylene
Concen: 3.478 ppbv
RT: 12.99 min Scan# 3174
Delta R.T. -0.03 min
Lab File: VL034870.D
Acq: 10 Mar 2020 17:40

Instrument :
MSVOA_L
ClientSampled :
AA-2

Tot Ion	Ratio	Lower	Upper
91	100		
106	45.2	37.1	55.7

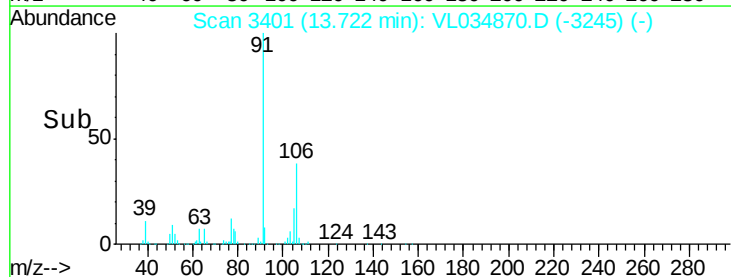
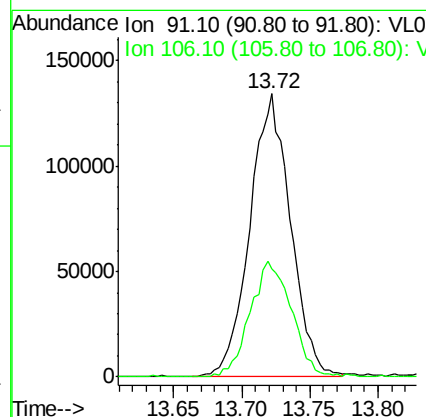
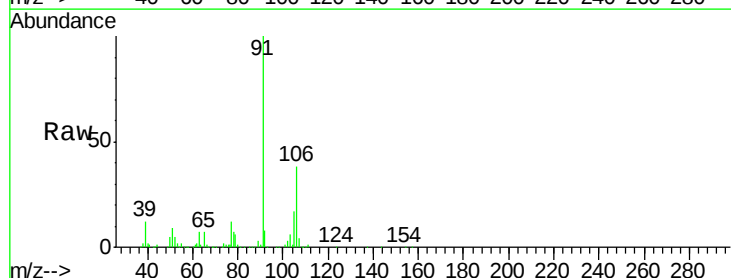
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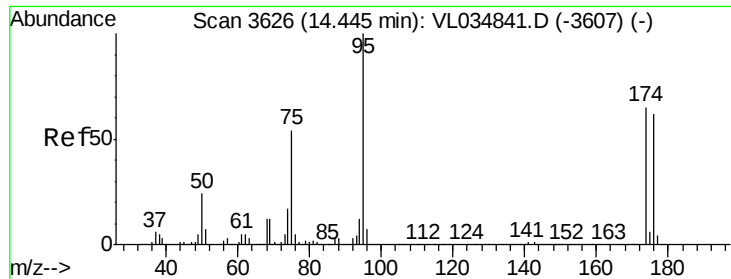
MMDadoda
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#60
o-Xylene
Concen: 1.249 ppbv
RT: 13.72 min Scan# 3401
Delta R.T. 0.00 min
Lab File: VL034870.D
Acq: 10 Mar 2020 17:40

Tgt Ion	Ratio	Lower	Upper
91	100		
106	42.3	22.5	67.5





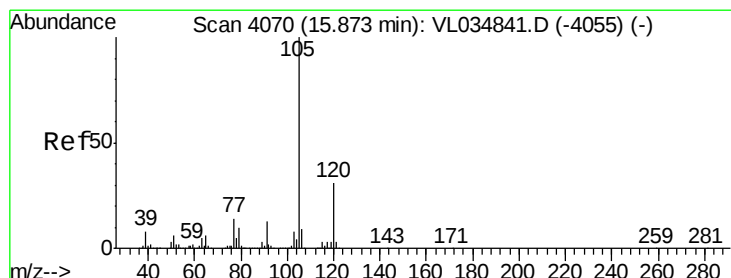
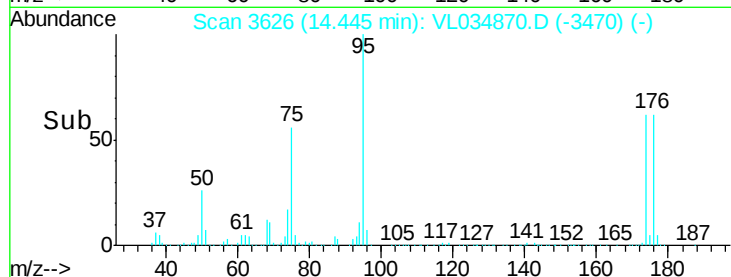
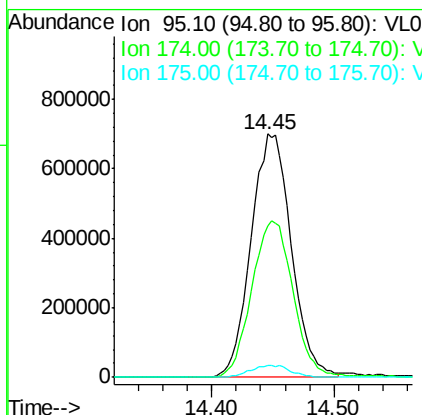
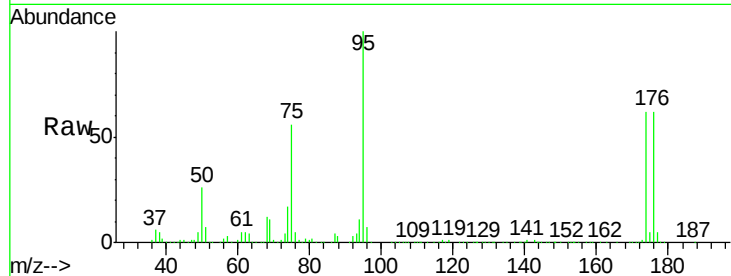
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.301 ppbv
 RT: 14.45 min Scan# 3626
 Delta R.T. 0.00 min
 Lab File: VL034870.D
 Acq: 10 Mar 2020 17:40

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-2

Tot Ion	Ratio	Lower	Upper
95	100		
174	66.7	55.2	82.8
175	5.0	4.3	6.5

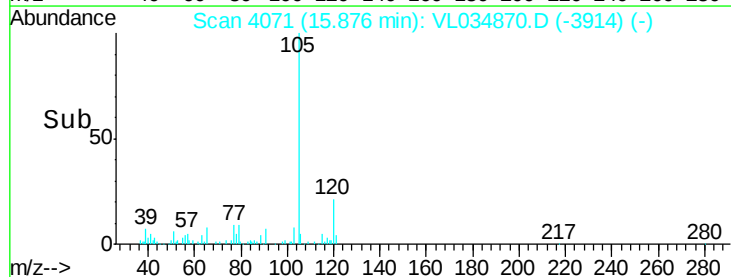
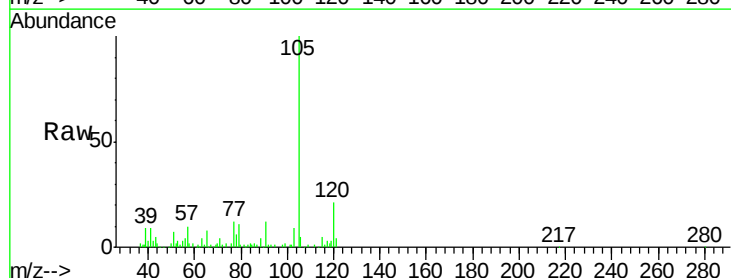
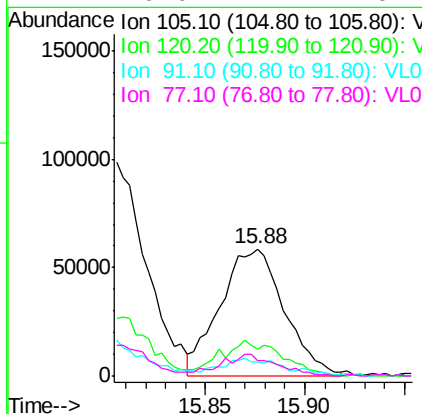
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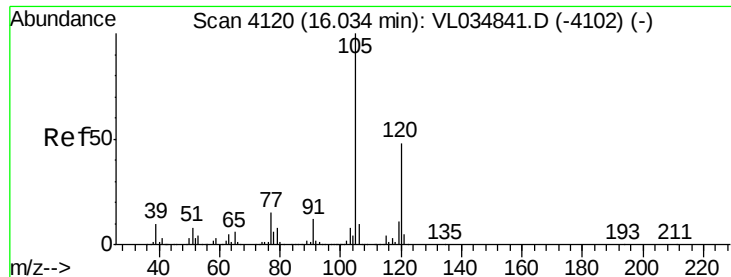
MMDadoda
 3/11/2020 3:17:27 PM



#72
 4-Ethyltoluene
 Concen: 0.504 ppbv m
 RT: 15.88 min Scan# 4071
 Delta R.T. 0.00 min
 Lab File: VL034870.D
 Acq: 10 Mar 2020 17:40

Tgt Ion	Ratio	Lower	Upper
105	100		
120	0.0	23.7	35.5#
91	0.0	10.5	15.7#
77	0.0	11.1	16.7#





#73

1,3,5-Trimethylbenzene

Concen: 0.380 ppbv m

RT: 16.03 min Scan# 4119

Delta R.T. -0.00 min

Lab File: VL034870.D

Acq: 10 Mar 2020 17:40

Instrument :

MSVOA_L

ClientSampleId :

AA-2

Tot Ion:105 Resp: 92661

Ion Ratio Lower Upper

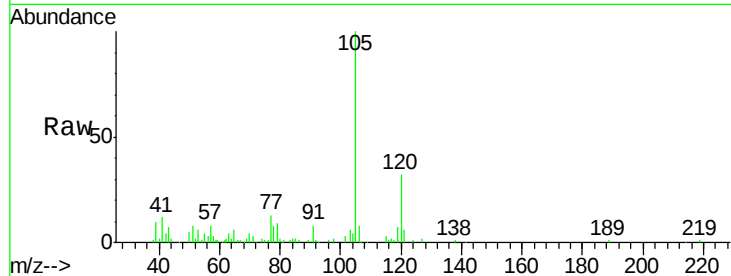
105 100

120 31.9 38.6 58.0#

Manual Integrations
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Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V

16.03

50000

40000

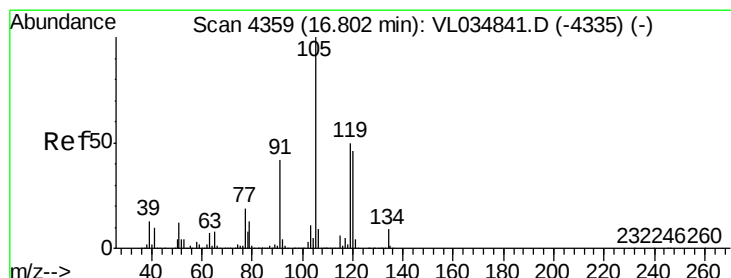
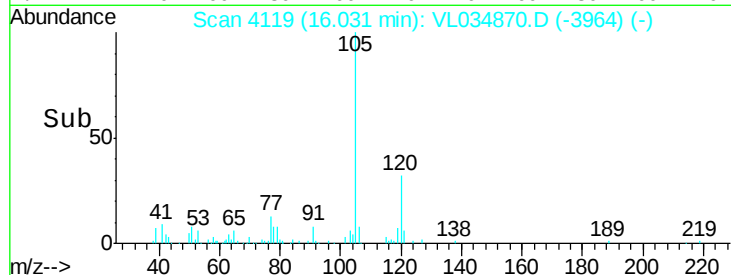
30000

20000

10000

0

Time--> 15.95 16.00 16.05 16.10



#74

1,2,4-Trimethylbenzene

Concen: 1.513 ppbv

RT: 16.80 min Scan# 4358

Delta R.T. -0.00 min

Lab File: VL034870.D

Acq: 10 Mar 2020 17:40

Tgt Ion:105 Resp: 380405

Ion Ratio Lower Upper

105 100

120 40.3 37.0 55.4

91 9.9 33.8 50.6#

77 15.8 15.4 23.0

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

250000

200000

150000

100000

50000

0

Time--> 16.70 16.80

