

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL120219\
 Data File : VL034446.D
 Acq On : 3 Dec 2019 3:54
 Operator : SY/AP
 Sample : K6097-04
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3A

Manual Integrations
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 12/4/2019 4:48:29 PM

Quant Time: Dec 03 06:22:47 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov 19 14:15:35 2019
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	750572	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	1462989	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.15	117	1422485	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1229631	10.28	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	169869	1.251	ppbv	94
3) Chlorodifluoromethane	2.97	51	42694m	0.456	ppbv	
4) Chloromethane	3.12	50	25585	0.463	ppbv	100
9) Propene	3.00	41	75632m	1.819	ppbv	
10) Heptane	8.16	43	20391m	0.190	ppbv	
11) Trichlorofluoromethane	3.95	101	36631	0.271	ppbv #	78
13) Ethanol	3.61	45	2419507m	208.910	ppbv	
15) Acetone	3.84	43	780179	7.259	ppbv	98
19) Isopropyl Alcohol	3.99	45	13962093	202.668	ppbv #	99
20) Methylene Chloride	4.35	84	67352	1.767	ppbv	90
26) Hexane	5.71	57	64203	0.779	ppbv #	67
29) Chloroform	5.77	83	17611m	0.132	ppbv	
34) 2-Butanone	5.26	43	116607	0.968	ppbv	95
35) Carbon Tetrachloride	7.05	117	10735m	0.085	ppbv	
36) Benzene	6.92	78	37043	0.253	ppbv #	89
38) Trichloroethene	7.88	130	35817	0.597	ppbv	89
44) 2,2,4-Trimethylpentane	7.91	57	35708	0.134	ppbv #	83
53) Toluene	9.85	91	172546	1.039	ppbv	98
59) m/p-Xylene	13.03	91	64150m	0.336	ppbv	
60) o-Xylene	13.76	91	24116m	0.128	ppbv	
74) 1,2,4-Trimethylbenzene	16.83	105	28250m	0.125	ppbv	

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

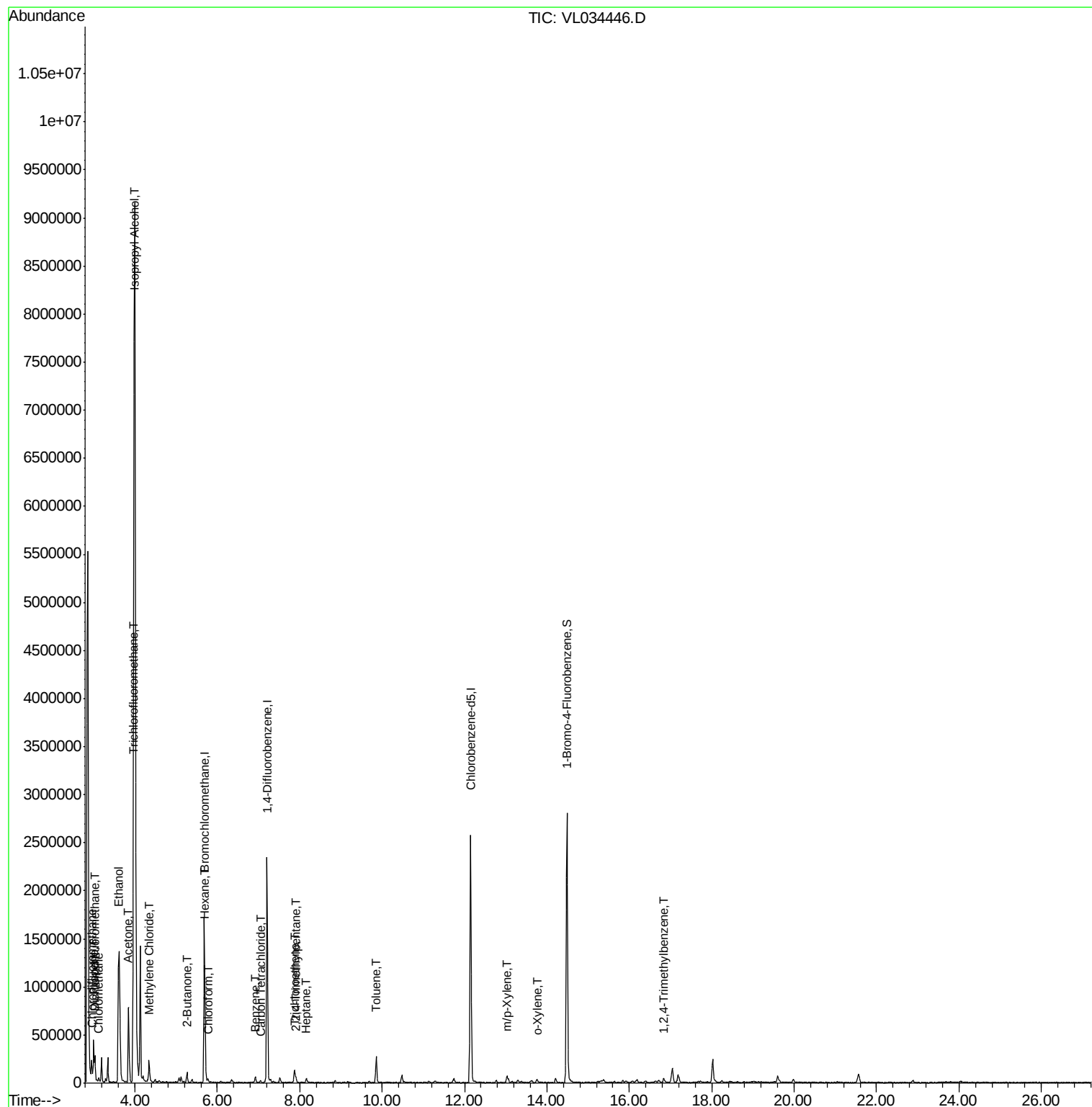
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL120219\
Data File : VL034446.D
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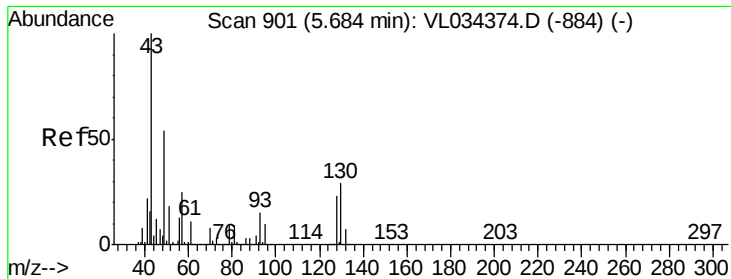
Instrument :
MSVOA_L
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Quant Time: Dec 03 06:22:47 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov
QLast Update : Tue Nov 19 14:15:35 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. 0.00 min

Lab File: VL034446.D

Acq: 3 Dec 2019 3:54

Instrument :

MSVOA_L

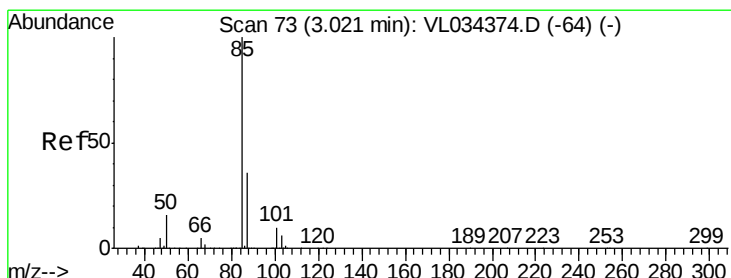
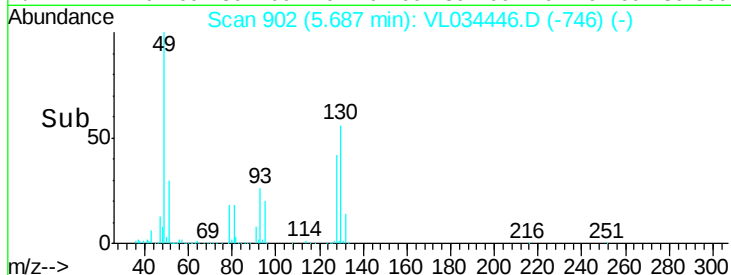
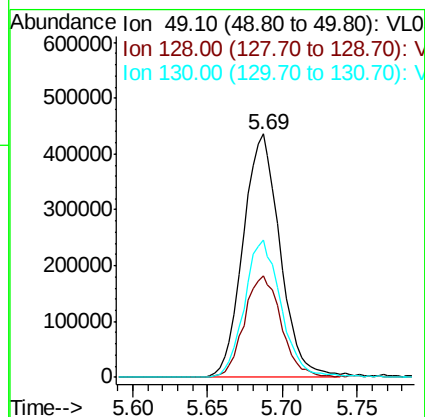
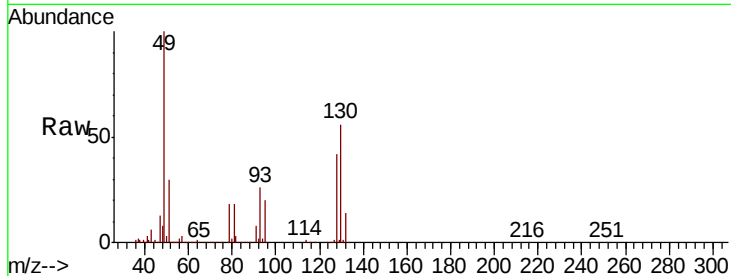
ClientSampled :

IA-3A

Tot Ion:	49	Resp:	750572
Ion	Ratio	Lower	Upper
49	100		
128	42.5	21.8	65.3
130	55.9	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 1.251 ppbv

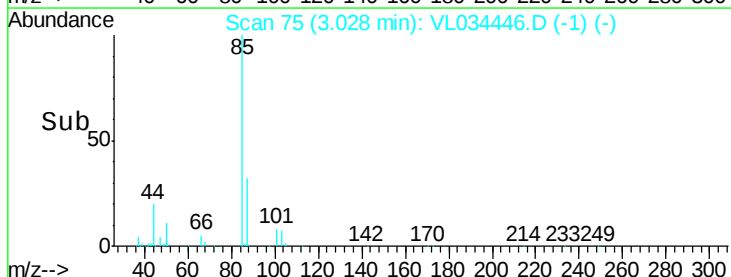
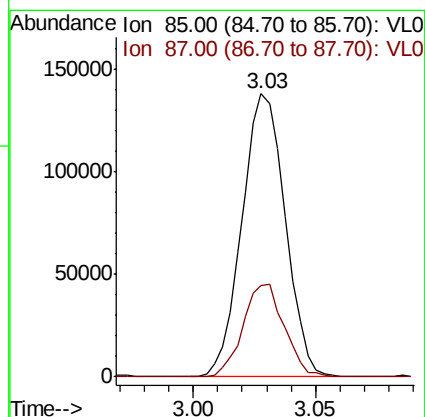
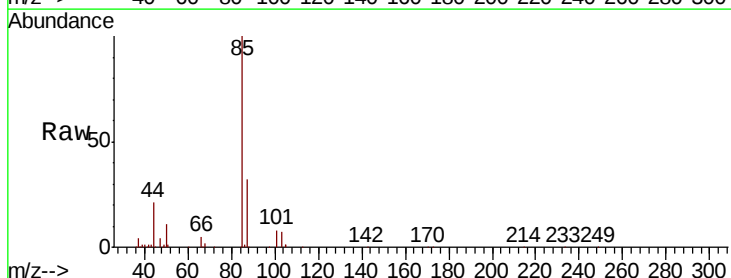
RT: 3.03 min Scan# 75

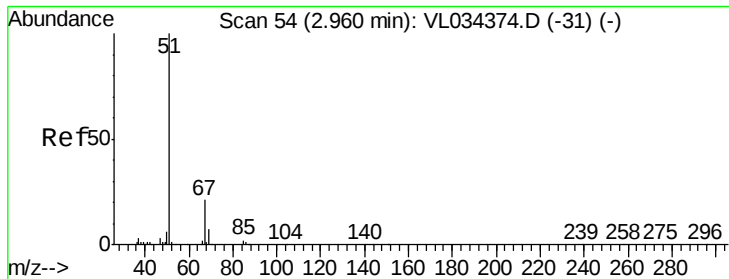
Delta R.T. 0.01 min

Lab File: VL034446.D

Acq: 3 Dec 2019 3:54

Tgt Ion:	85	Resp:	169869
Ion	Ratio	Lower	Upper
85	100		
87	32.1	28.5	42.7





#3

Chlorodifluoromethane

Concen: 0.456 ppbv

RT: 2.97 min Scan# 57

Delta R.T. 0.01 min

Lab File: VL034446.D

Acq: 3 Dec 2019 3:54

Instrument :

MSVOA_L

ClientSampled :

IA-3A

Tot Ion: 51 Resp: 42694

Ion Ratio Lower Upper

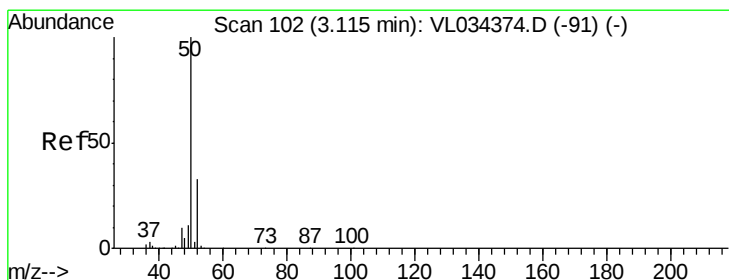
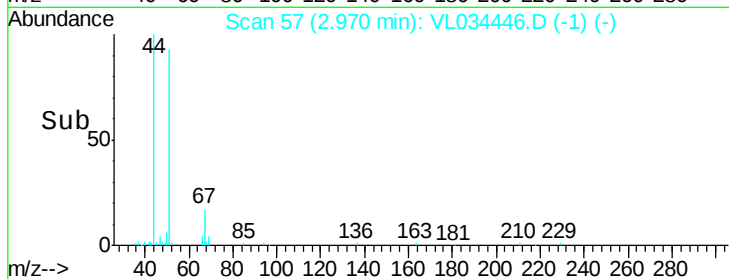
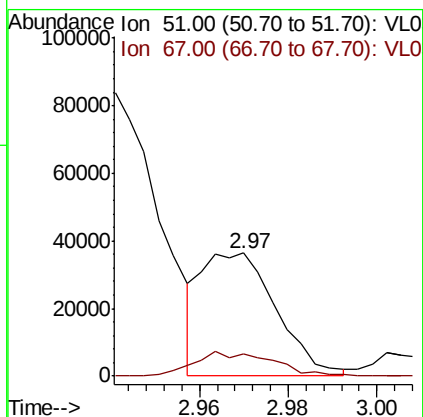
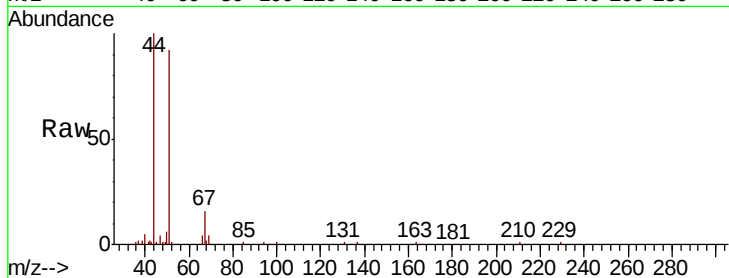
51 100

67 21.1 16.2 24.2

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#4

Chloromethane

Concen: 0.463 ppbv

RT: 3.12 min Scan# 104

Delta R.T. 0.01 min

Lab File: VL034446.D

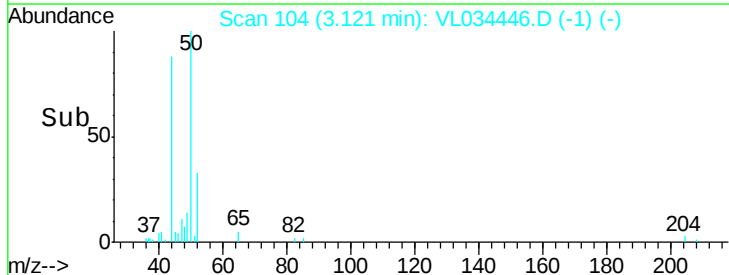
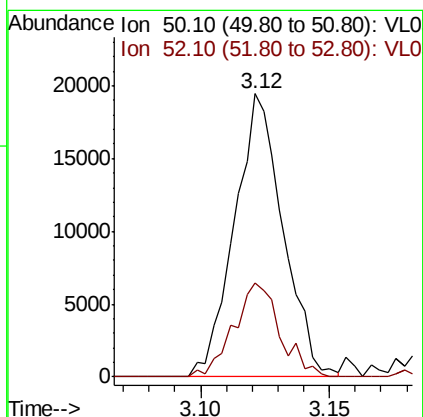
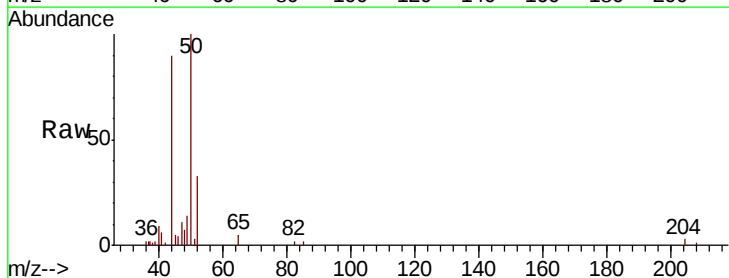
Acq: 3 Dec 2019 3:54

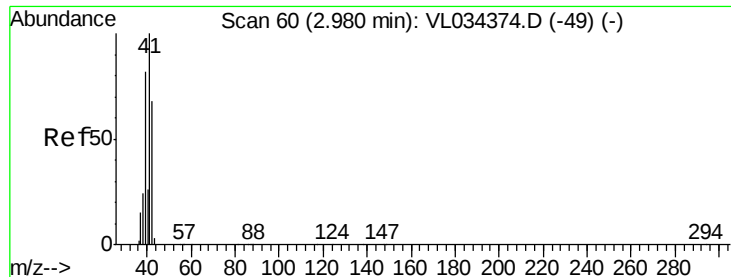
Tgt Ion: 50 Resp: 25585

Ion Ratio Lower Upper

50 100

52 33.4 26.8 40.2





#9

Propene

Concen: 1.819 ppbv m

RT: 3.00 min Scan# 67

Delta R.T. 0.02 min

Lab File: VL034446.D

Acq: 3 Dec 2019 3:54

Instrument :

MSVOA_L

ClientSampled :

IA-3A

Tot Ion: 41 Resp: 75632

Ion Ratio Lower Upper

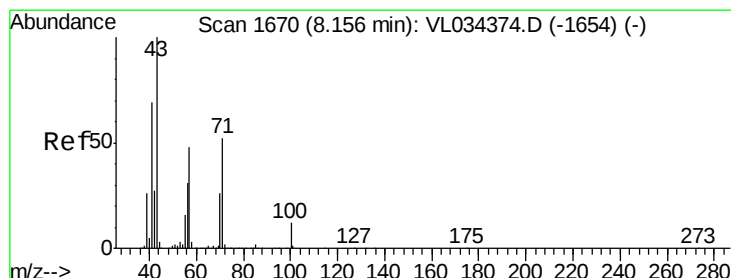
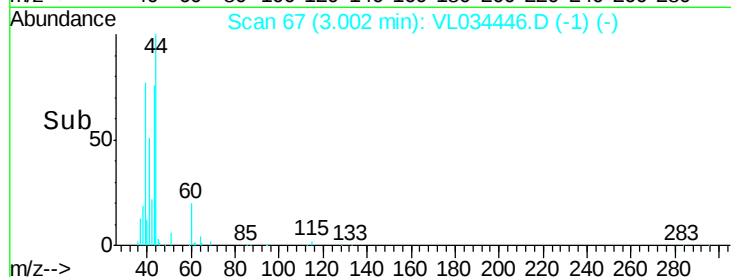
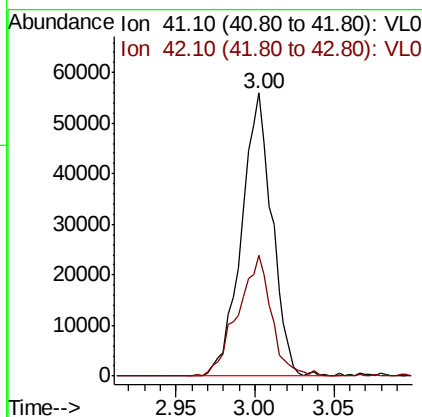
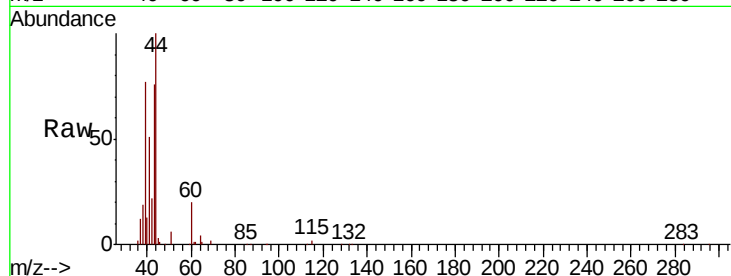
41 100

42 54.3 54.6 82.0#

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#10

Heptane

Concen: 0.190 ppbv m

RT: 8.16 min Scan# 1672

Delta R.T. 0.01 min

Lab File: VL034446.D

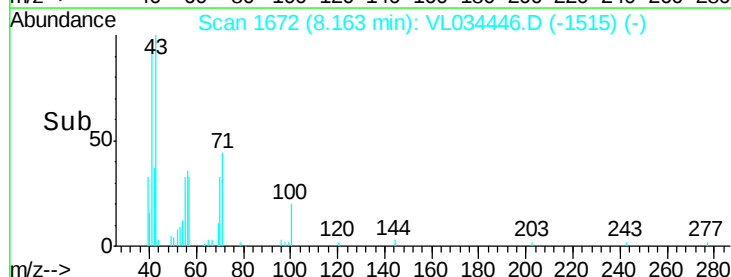
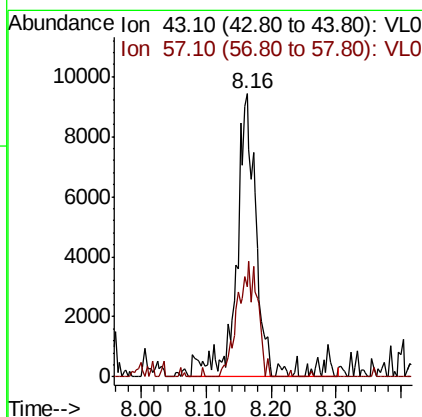
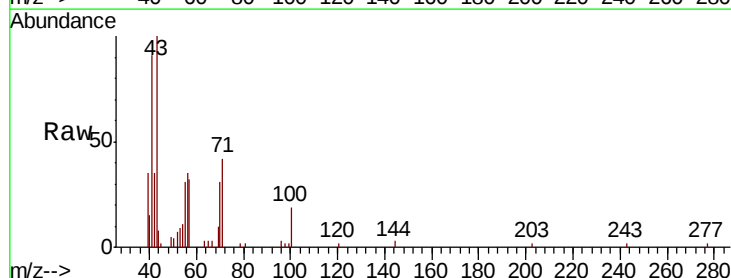
Acq: 3 Dec 2019 3:54

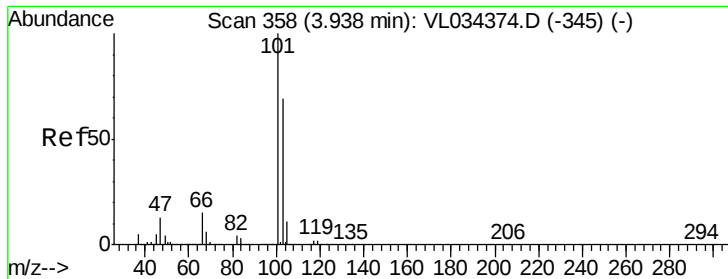
Tgt Ion: 43 Resp: 20391

Ion Ratio Lower Upper

43 100

57 39.9 40.2 60.2#





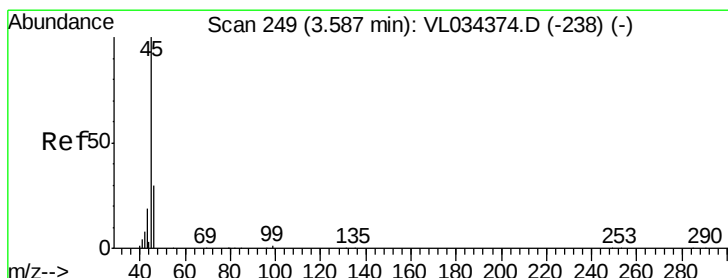
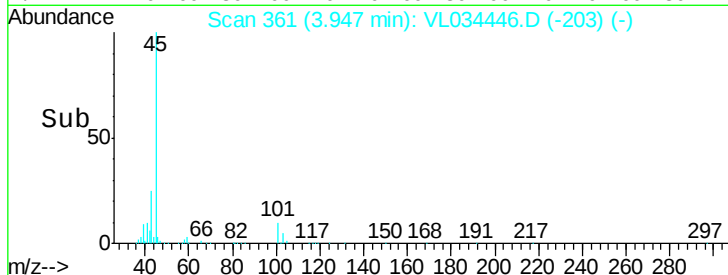
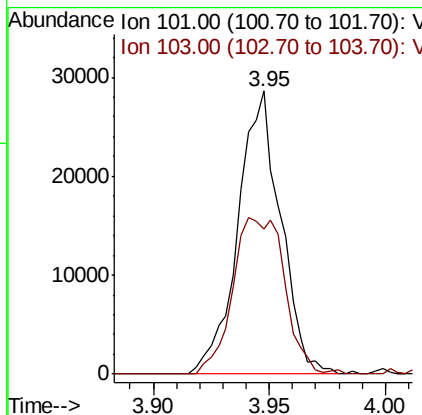
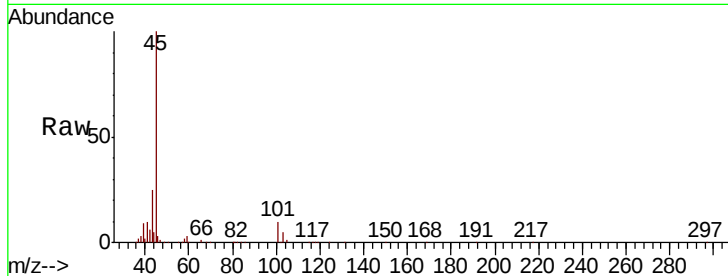
#11
 Trichlorofluoromethane
 Concen: 0.271 ppbv
 RT: 3.95 min Scan# 361
 Delta R.T. 0.01 min
 Lab File: VL034446.D
 Acq: 3 Dec 2019 3:54

Instrument :
 MSVOA_L
 ClientSampled :
 IA-3A

Tot Ion: 101 Resp: 36631
 Ion Ratio Lower Upper
 101 100
 103 51.3 55.4 83.0#

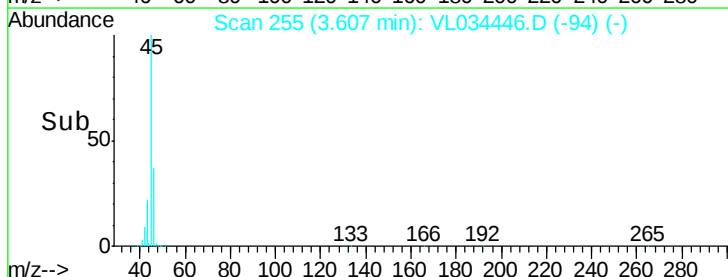
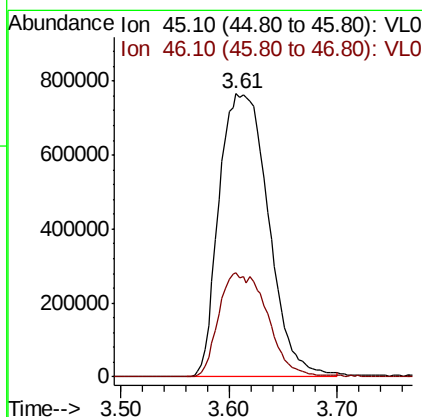
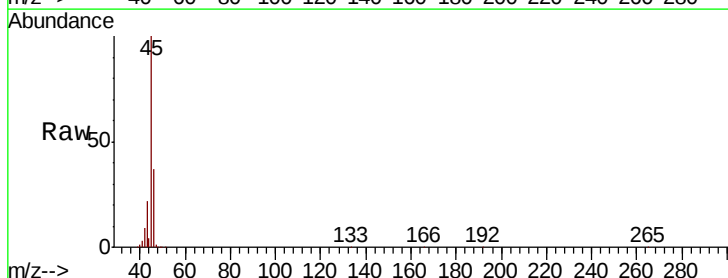
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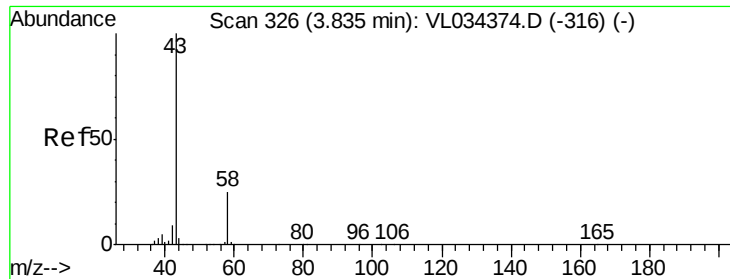
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#13
 Ethanol
 Concen: 208.910 ppbv m
 RT: 3.61 min Scan# 255
 Delta R.T. 0.02 min
 Lab File: VL034446.D
 Acq: 3 Dec 2019 3:54

Tgt Ion: 45 Resp: 2419507
 Ion Ratio Lower Upper
 45 100
 46 36.4 13.8 55.4





#15

Acetone

Concen: 7.259 ppbv

RT: 3.84 min Scan# 328

Delta R.T. 0.01 min

Lab File: VL034446.D

Acq: 3 Dec 2019 3:54

Instrument :

MSVOA_L

ClientSampled :

IA-3A

Tot Ion: 43 Resp: 780179

Ion Ratio Lower Upper

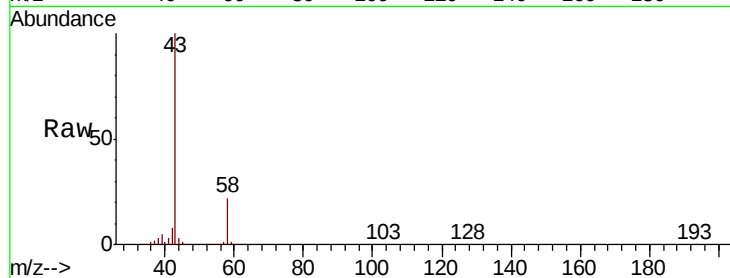
43 100

58 24.4 20.2 30.4

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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.84

500000

400000

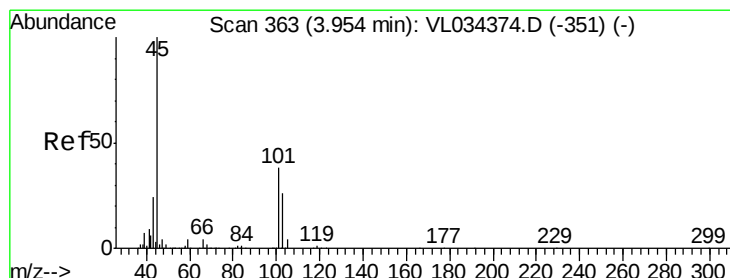
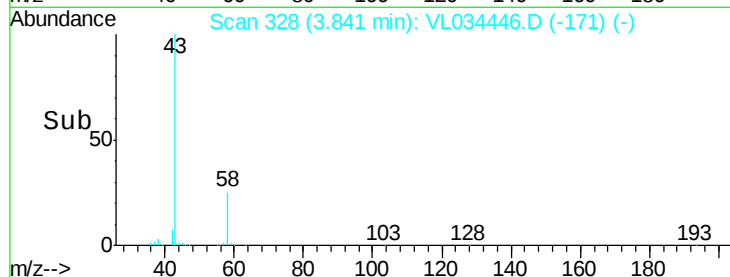
300000

200000

100000

0

Time-->



#19

Isopropyl Alcohol

Concen: 202.668 ppbv

RT: 3.99 min Scan# 375

Delta R.T. 0.04 min

Lab File: VL034446.D

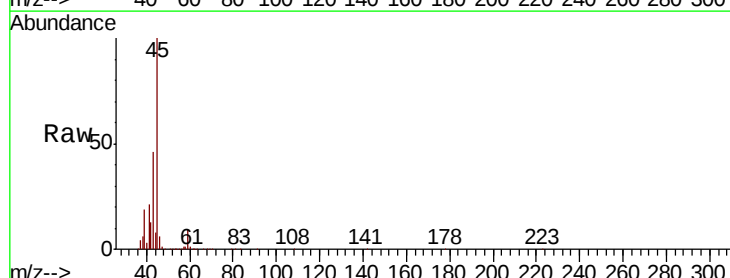
Acq: 3 Dec 2019 3:54

Tgt Ion: 45 Resp:13962093

Ion Ratio Lower Upper

45 100

58 1.1 1.3 1.9#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0

3.99

4000000

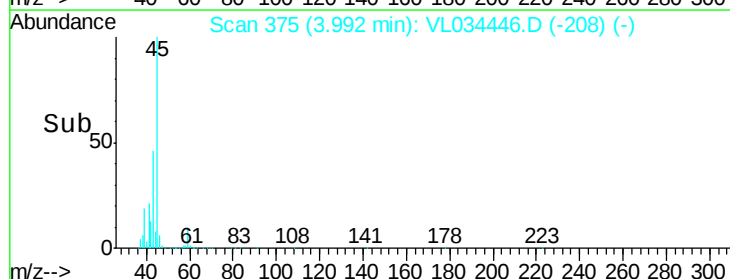
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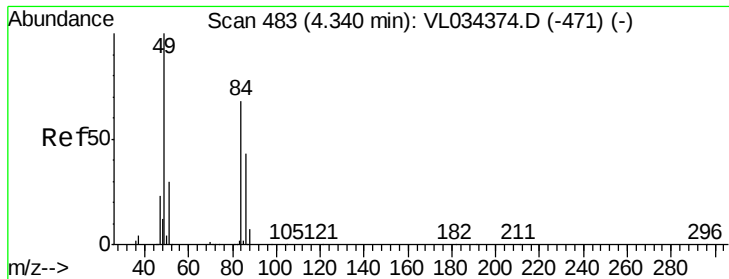
2000000

1000000

0

Time-->





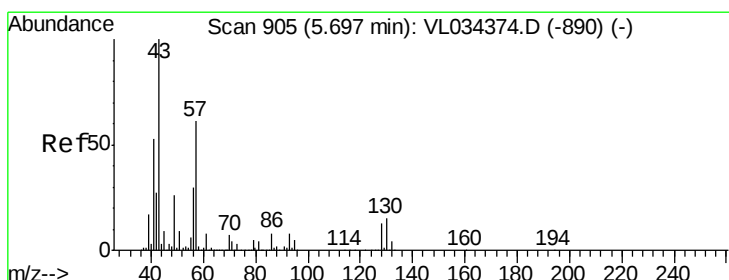
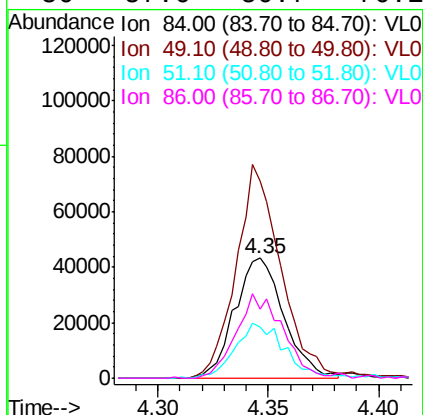
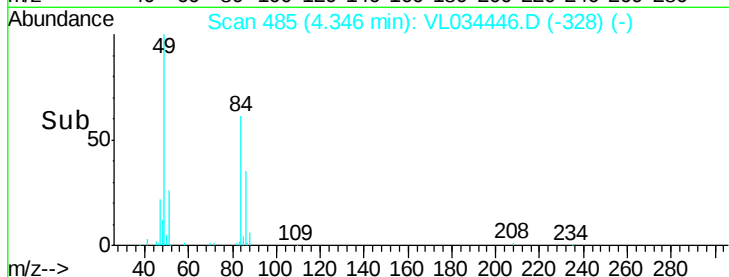
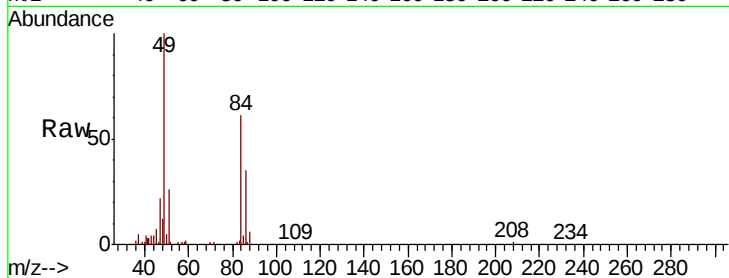
#20
Methvlene Chloride
Concen: 1.767 ppbv
RT: 4.35 min Scan# 485
Delta R.T. 0.01 min
Lab File: VL034446.D
Acq: 3 Dec 2019 3:54

Instrument :
MSVOA_L
ClientSampled :
IA-3A

Tot Ion:	84	Resp:	67352
Ion	Ratio	Lower	Upper
84	100		
49	164.0	116.8	175.2
51	43.3	35.6	53.4
86	57.6	50.7	76.1

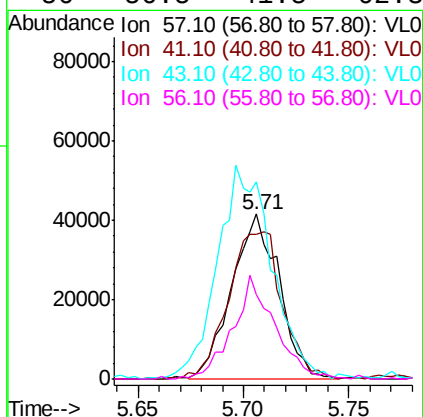
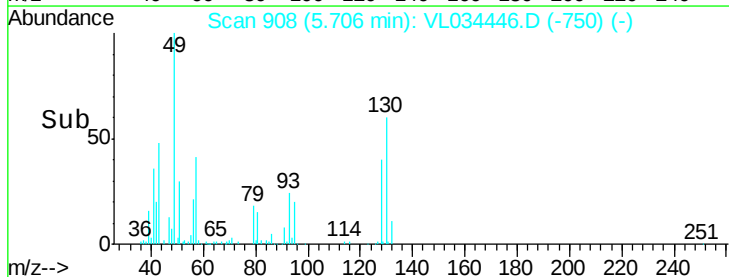
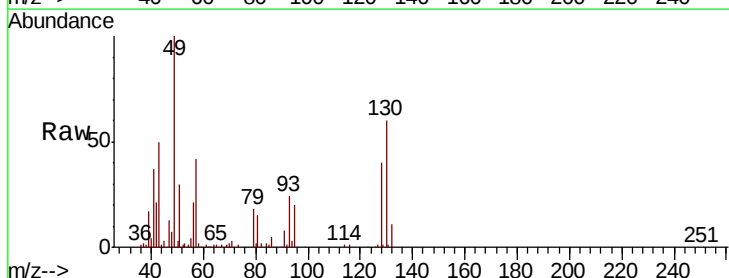
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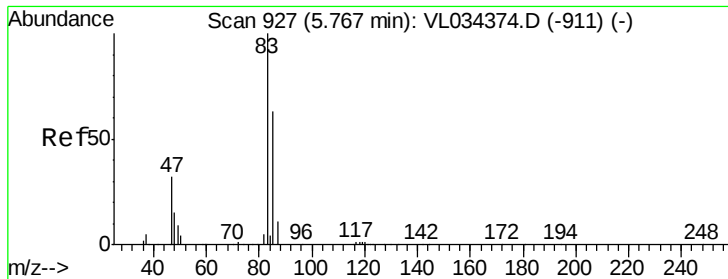
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#26
Hexane
Concen: 0.779 ppbv
RT: 5.71 min Scan# 908
Delta R.T. 0.01 min
Lab File: VL034446.D
Acq: 3 Dec 2019 3:54

Tgt Ion:	57	Resp:	64203
Ion	Ratio	Lower	Upper
57	100		
41	103.2	75.0	112.4
43	153.0	186.6	279.8
56	56.5	41.5	62.3





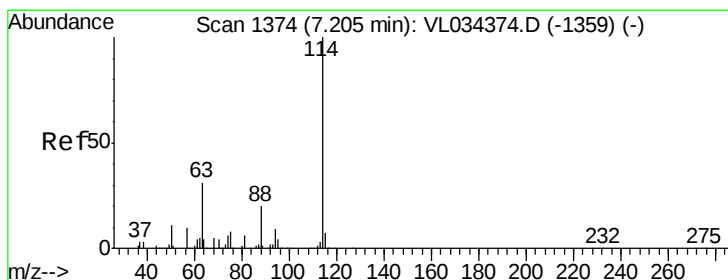
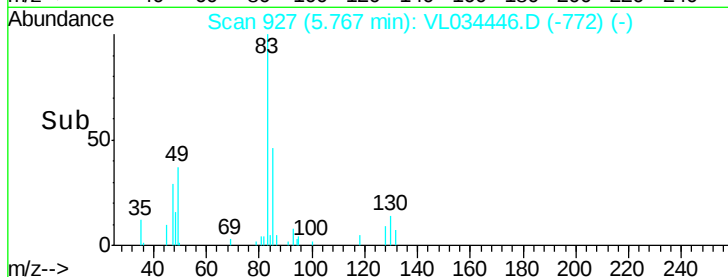
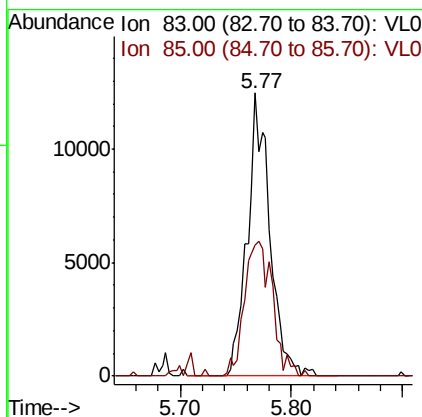
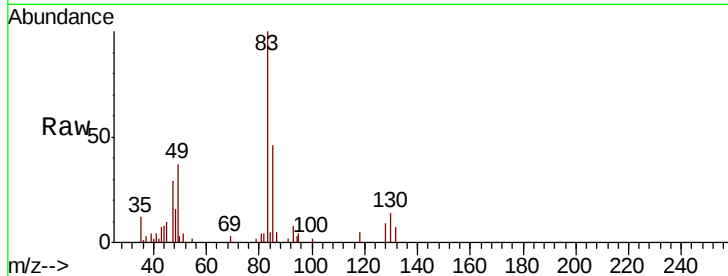
#29
Chloroform
Concen: 0.132 ppbv m
RT: 5.77 min Scan# 927
Delta R.T. -0.00 min
Lab File: VL034446.D
Acq: 3 Dec 2019 3:54

Instrument :
MSVOA_L
ClientSampled :
IA-3A

Tot Ion: 83 Resp: 17611
Ion Ratio Lower Upper
83 100
85 46.2 50.4 75.6#

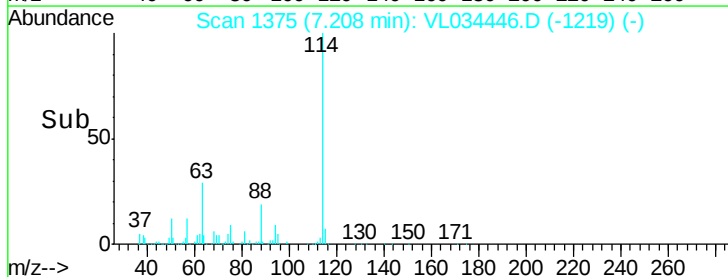
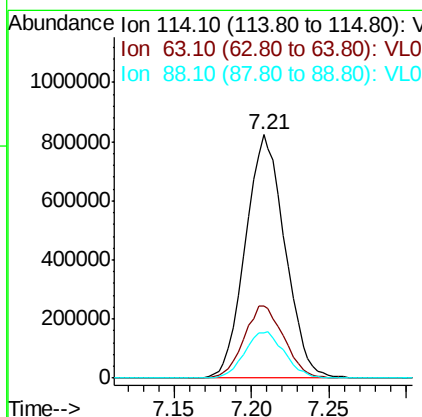
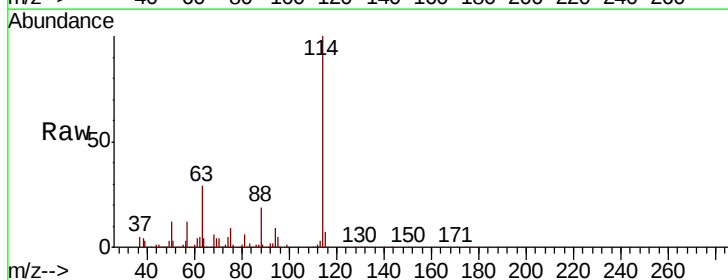
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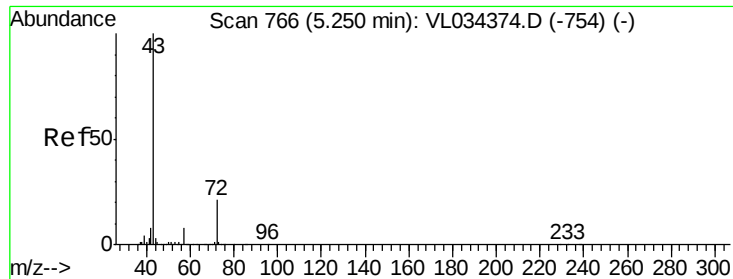
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1375
Delta R.T. 0.00 min
Lab File: VL034446.D
Acq: 3 Dec 2019 3:54

Tgt Ion: 114 Resp: 1462989
Ion Ratio Lower Upper
114 100
63 30.1 24.2 36.4
88 19.4 15.9 23.9





#34

2-Butanone

Concen: 0.968 ppbv

RT: 5.26 min Scan# 770

Delta R.T. 0.01 min

Lab File: VL034446.D

Acq: 3 Dec 2019 3:54

Instrument :

MSVOA_L

ClientSampleId :

IA-3A

Tot Ion: 43 Resp: 116607

Ion Ratio Lower Upper

43 100

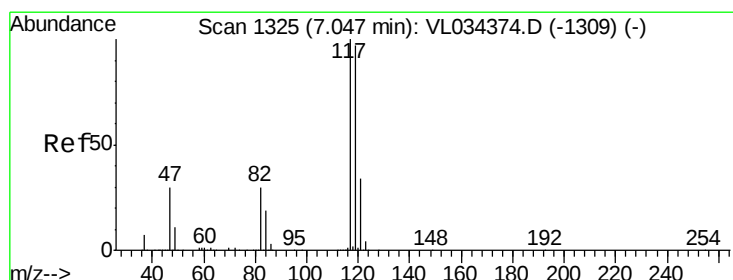
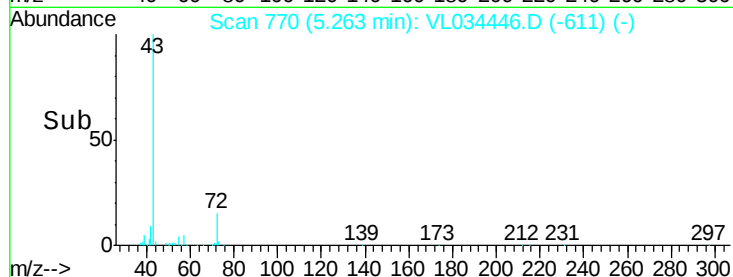
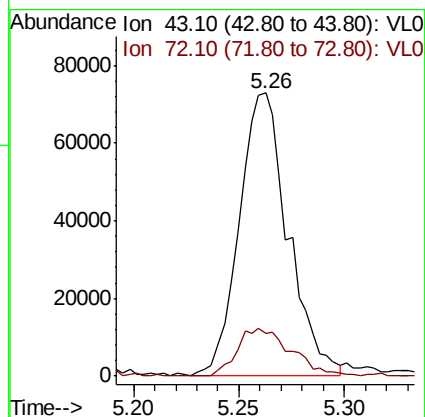
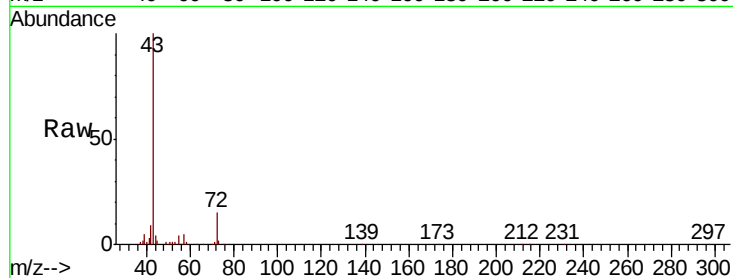
72 19.1 17.0 25.6

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#35

Carbon Tetrachloride

Concen: 0.085 ppbv m

RT: 7.05 min Scan# 1326

Delta R.T. 0.00 min

Lab File: VL034446.D

Acq: 3 Dec 2019 3:54

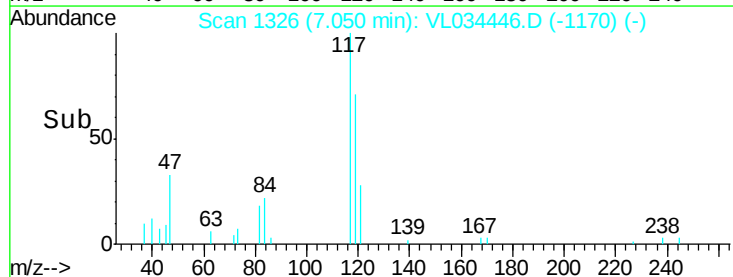
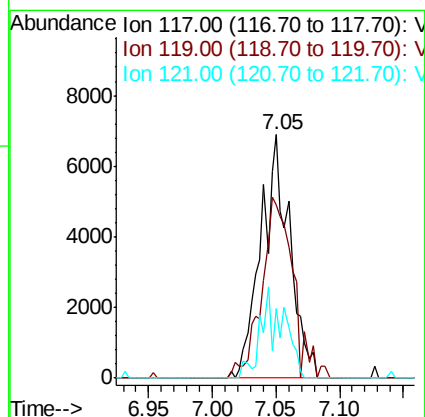
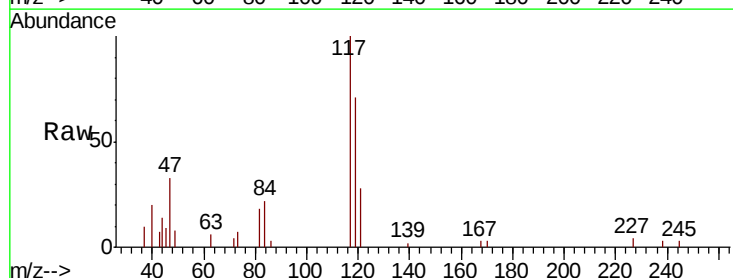
Tgt Ion: 117 Resp: 10735

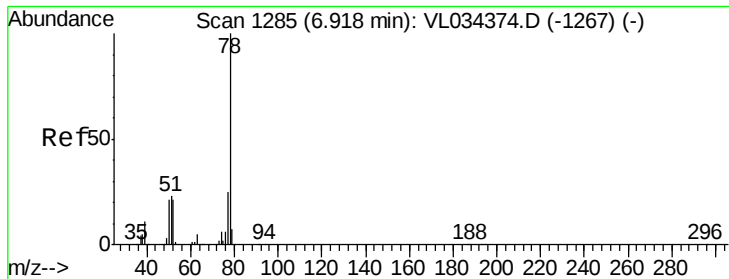
Ion Ratio Lower Upper

117 100

119 70.9 77.3 115.9#

121 28.4 27.4 41.2





#36

Benzene

Concen: 0.253 ppbv

RT: 6.92 min Scan# 1286

Delta R.T. 0.00 min

Lab File: VL034446.D

Acq: 3 Dec 2019 3:54

Instrument :

MSVOA_L

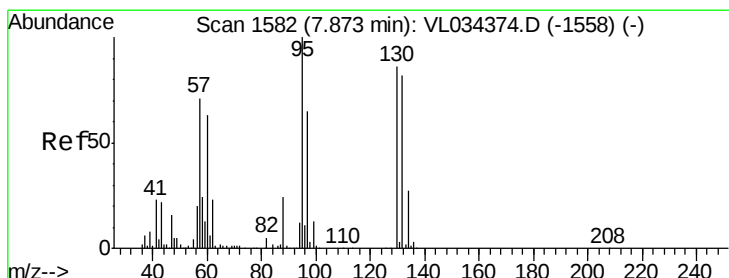
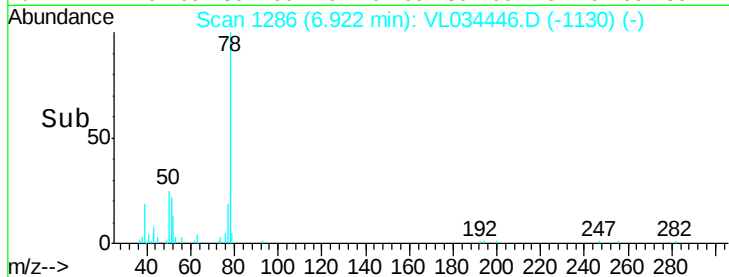
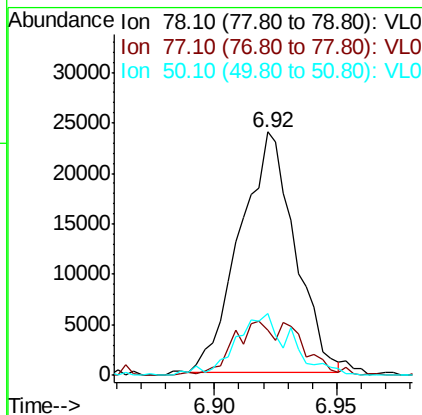
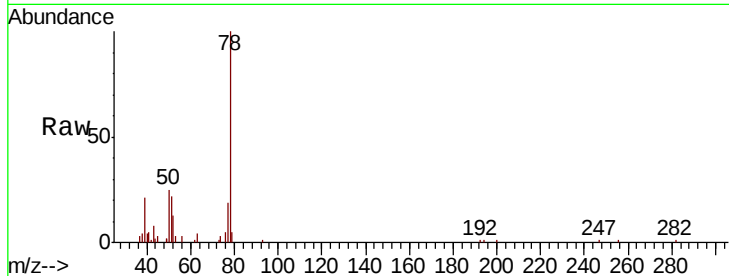
ClientSampleId :

IA-3A

Tot Ion	Ratio	Lower	Upper
78	100		
77	17.7	20.2	30.4#
50	24.4	17.1	25.7

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#38

Trichloroethene

Concen: 0.597 ppbv

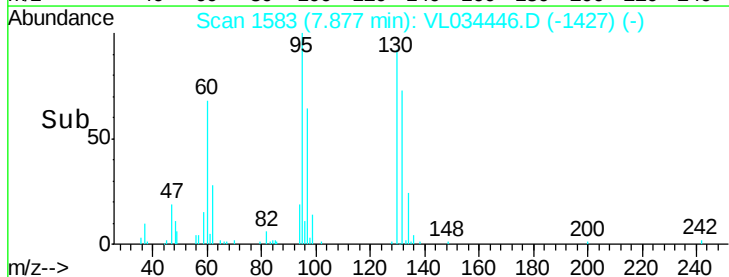
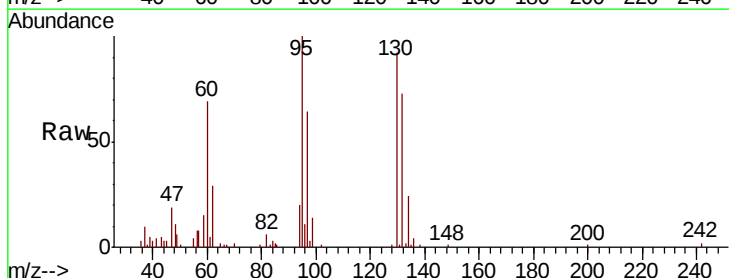
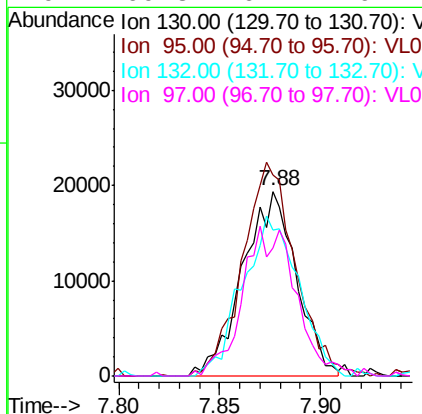
RT: 7.88 min Scan# 1583

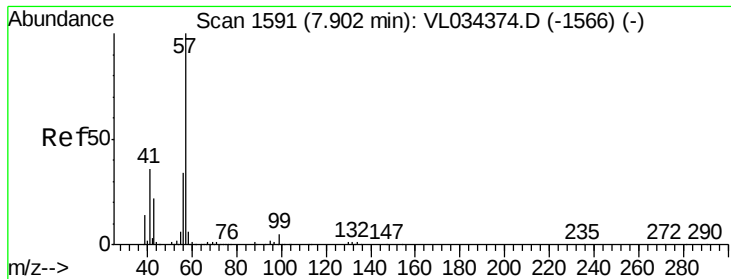
Delta R.T. 0.00 min

Lab File: VL034446.D

Acq: 3 Dec 2019 3:54

Tgt Ion	Ratio	Lower	Upper
130	100		
95	109.0	93.4	140.0
132	79.4	76.4	114.6
97	69.3	61.1	91.7





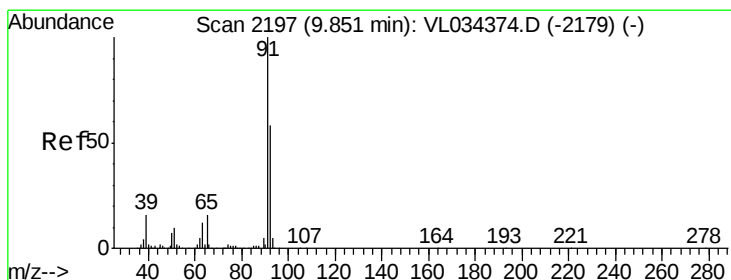
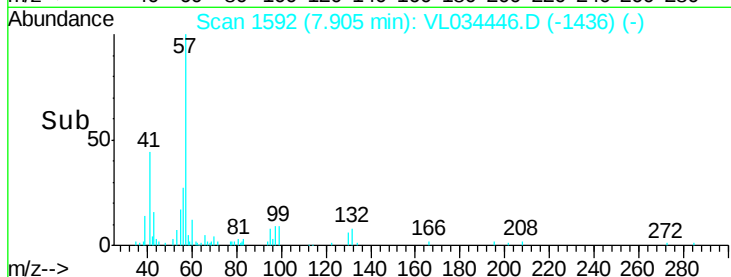
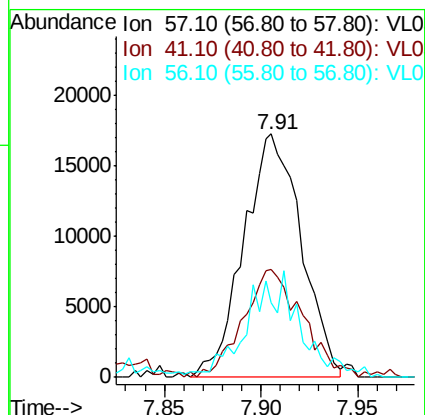
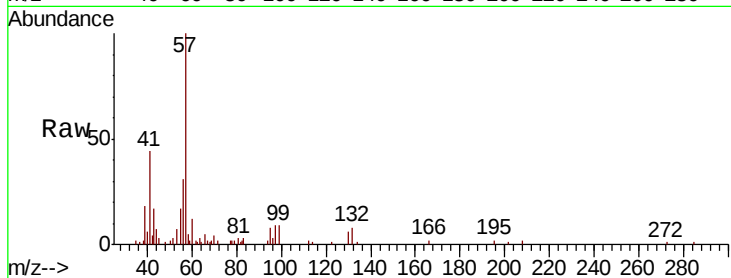
#44
 2,2,4-Trimethylpentane
 Concen: 0.134 ppbv
 RT: 7.91 min Scan# 1592
 Delta R.T. 0.00 min
 Lab File: VL034446.D
 Acq: 3 Dec 2019 3:54

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3A

Tot Ion	Ratio	Lower	Upper
57	100		
41	46.9	28.6	42.8#
56	39.3	25.3	37.9#

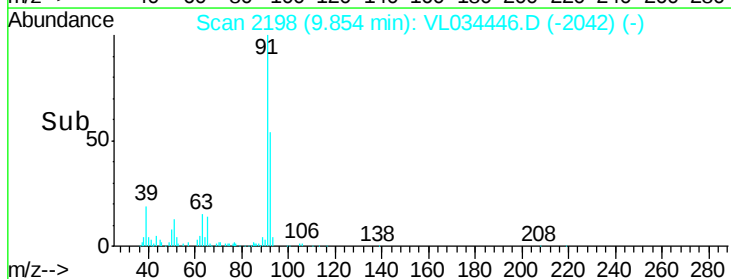
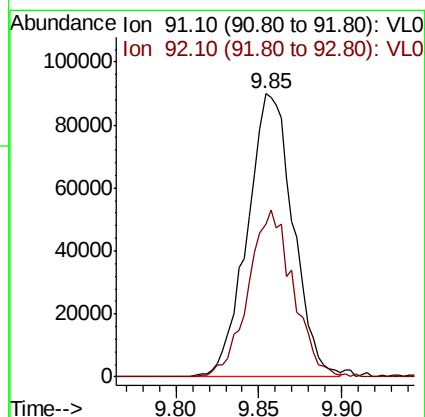
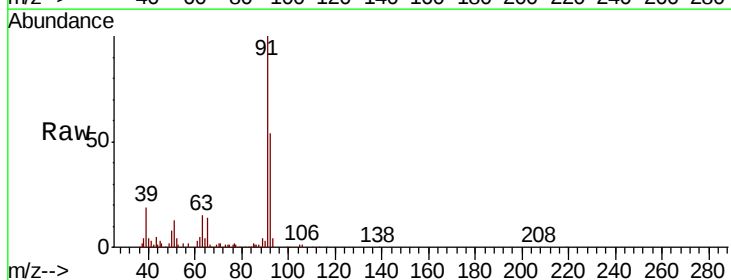
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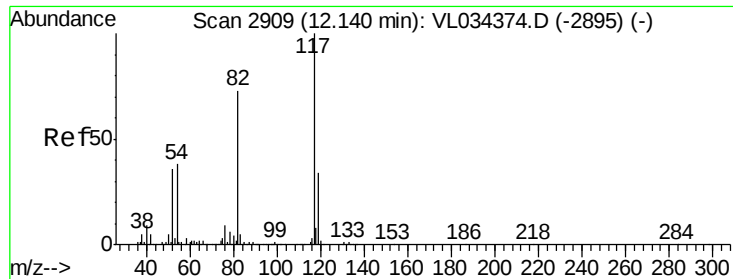
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#53
 Toluene
 Concen: 1.039 ppbv
 RT: 9.85 min Scan# 2198
 Delta R.T. 0.00 min
 Lab File: VL034446.D
 Acq: 3 Dec 2019 3:54

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.1	47.9	71.9





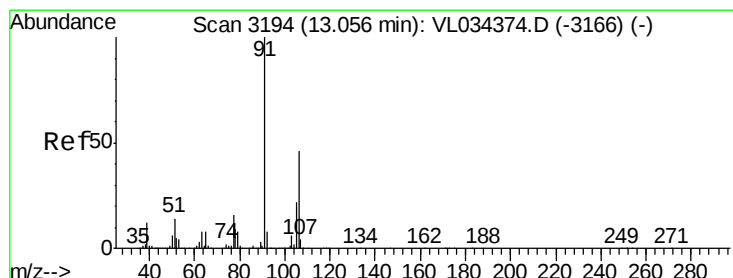
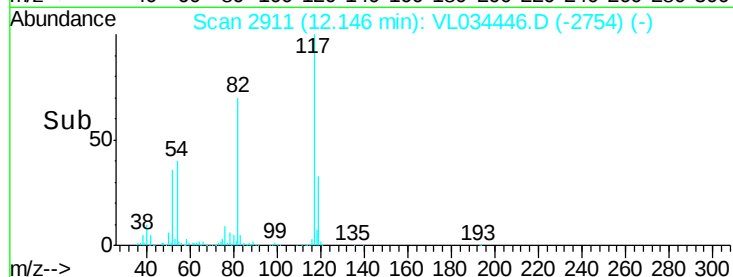
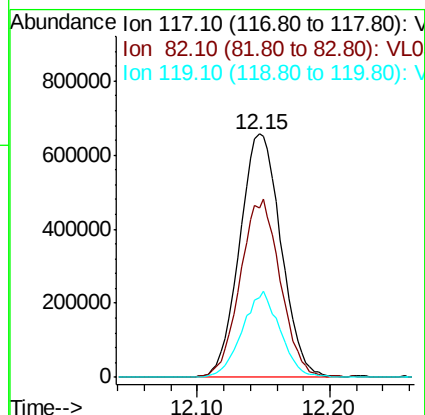
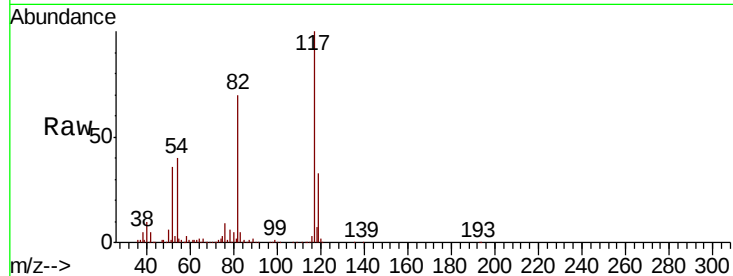
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2911
Delta R.T. 0.01 min
Lab File: VL034446.D
Acq: 3 Dec 2019 3:54

Instrument :
MSVOA_L
Client Sampled :
IA-3A

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.5	57.5	86.3
119	32.4	25.4	38.2

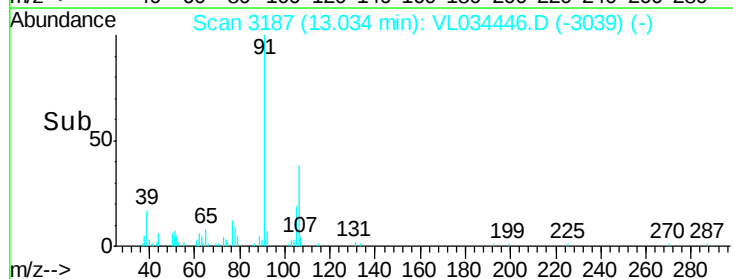
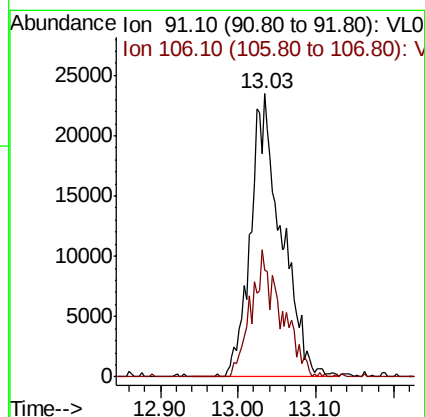
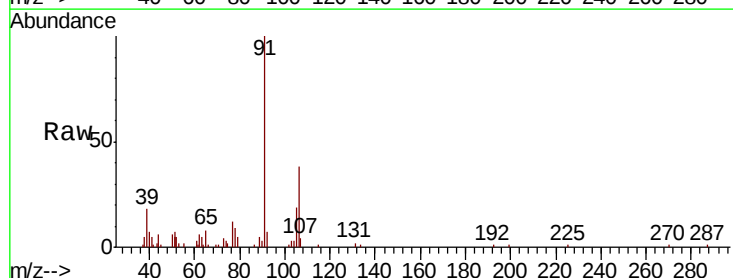
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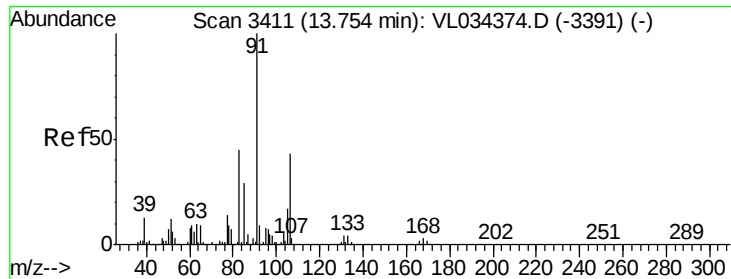
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#59
m/p-Xylene
Concen: 0.336 ppbv m
RT: 13.03 min Scan# 3187
Delta R.T. -0.02 min
Lab File: VL034446.D
Acq: 3 Dec 2019 3:54

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	34.6	51.8#





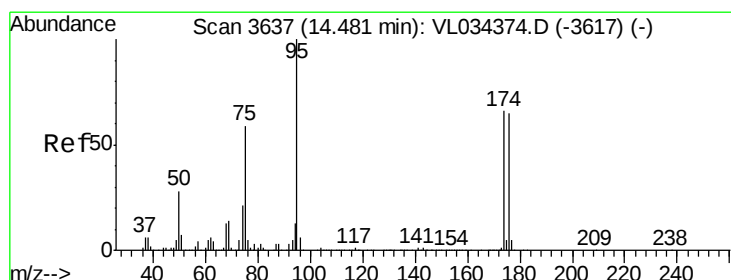
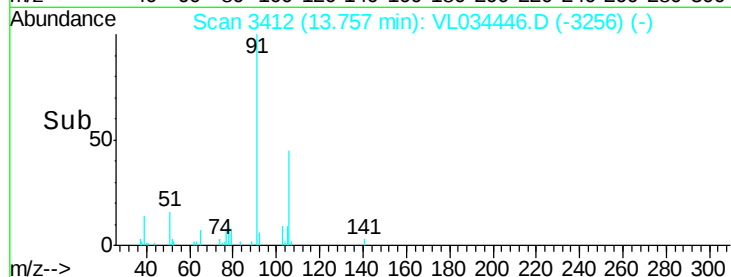
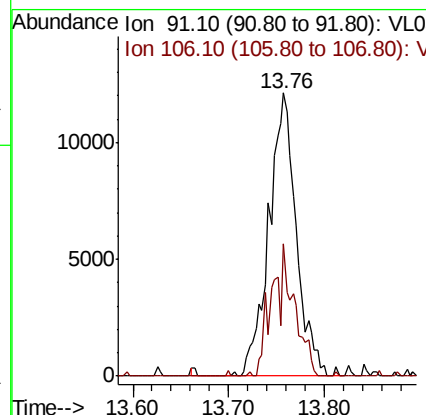
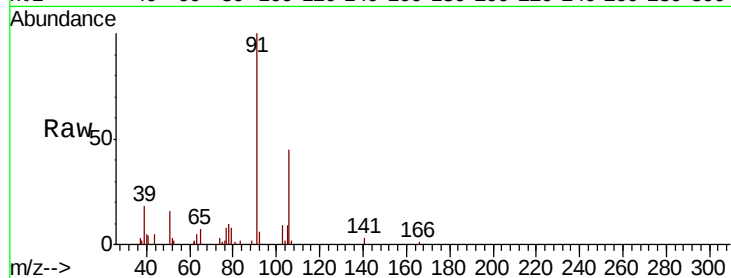
#60
o-Xylene
Concen: 0.128 ppbv m
RT: 13.76 min Scan# 3412
Delta R.T. 0.00 min
Lab File: VL034446.D
Acq: 3 Dec 2019 3:54

Instrument :
MSVOA_L
Client Sampled :
IA-3A

Tot Ion: 91 Resp: 24116
Ion Ratio Lower Upper
91 100
106 38.4 21.3 64.0

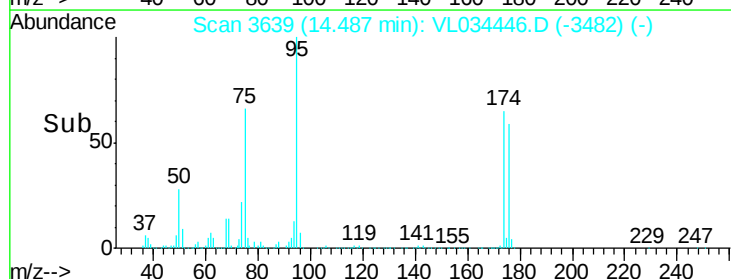
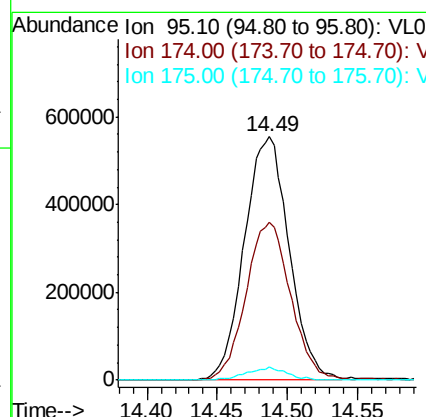
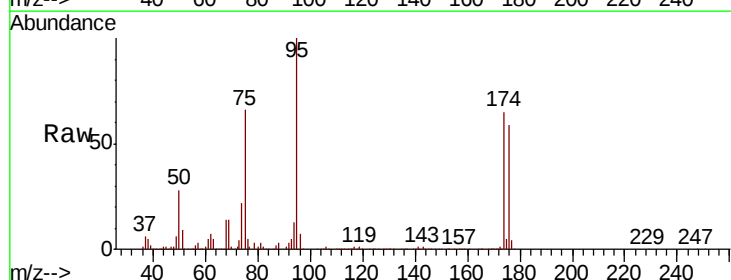
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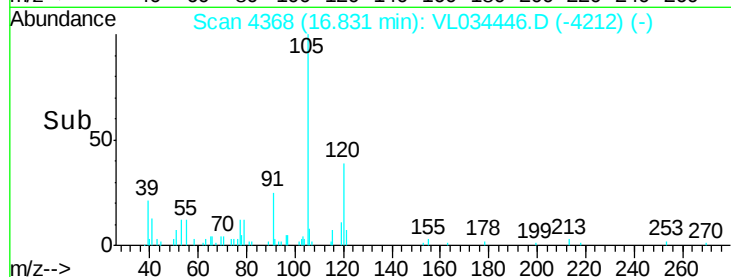
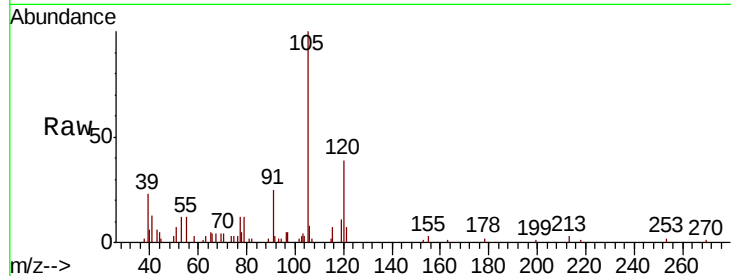
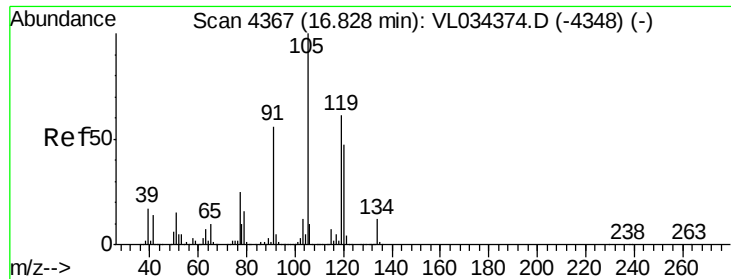
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.275 ppbv
RT: 14.49 min Scan# 3639
Delta R.T. 0.01 min
Lab File: VL034446.D
Acq: 3 Dec 2019 3:54

Tgt Ion: 95 Resp: 1229631
Ion Ratio Lower Upper
95 100
174 65.4 52.2 78.2
175 4.8 3.8 5.8





#74
 1,2,4-Trimethylbenzene
 Concen: 0.125 ppbv m
 RT: 16.83 min Scan# 4368
 Delta R.T. 0.00 min
 Lab File: VL034446.D
 Acq: 3 Dec 2019 3:54

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-3A

Tot Ion	Ratio	Resp Lower	Upper
105	100		
120	39.1	37.4	56.0
91	24.6	46.3	69.5#
77	12.1	20.6	30.8#

Manual Integrations
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