

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100819\
 Data File : VL034261.D
 Acq On : 8 Oct 2019 23:12
 Operator : SY/AP
 Sample : K5243-02
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

MMDadoda
 10/11/2019 5:07:34 PM

Quant Time: Oct 09 05:56:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	970022	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1598080	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1582269	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1461630	10.63	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.30%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.02	85	347663	2.426	ppbv	97
3) Chlorodifluoromethane	2.97	51	46710m	0.411	ppbv	
4) Chloromethane	3.12	50	29894m	0.447	ppbv	
9) Propene	3.00	41	106841m	1.904	ppbv	
11) Trichlorofluoromethane	3.95	101	48398	0.371	ppbv	97
13) Ethanol	3.60	45	2412953	177.580	ppbv	98
15) Acetone	3.84	43	1796422	13.818	ppbv	99
19) Isopropyl Alcohol	3.97	45	5226827	65.379	ppbv	99
20) Methylene Chloride	4.34	84	234420	6.254	ppbv	95
26) Hexane	5.71	57	265718	2.598	ppbv #	60
29) Chloroform	5.77	83	89422	0.612	ppbv	95
34) 2-Butanone	5.26	43	53469	0.328	ppbv	96
35) Carbon Tetrachloride	7.05	117	7578m	0.057	ppbv	
36) Benzene	6.92	78	21231m	0.120	ppbv	
38) Trichloroethene	7.87	130	19848m	0.315	ppbv	
52) Tetrachloroethene	11.28	164	16466m	0.282	ppbv	
53) Toluene	9.86	91	98465	0.510	ppbv	94
74) 1,2,4-Trimethylbenzene	16.84	105	52163	0.213	ppbv #	64

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

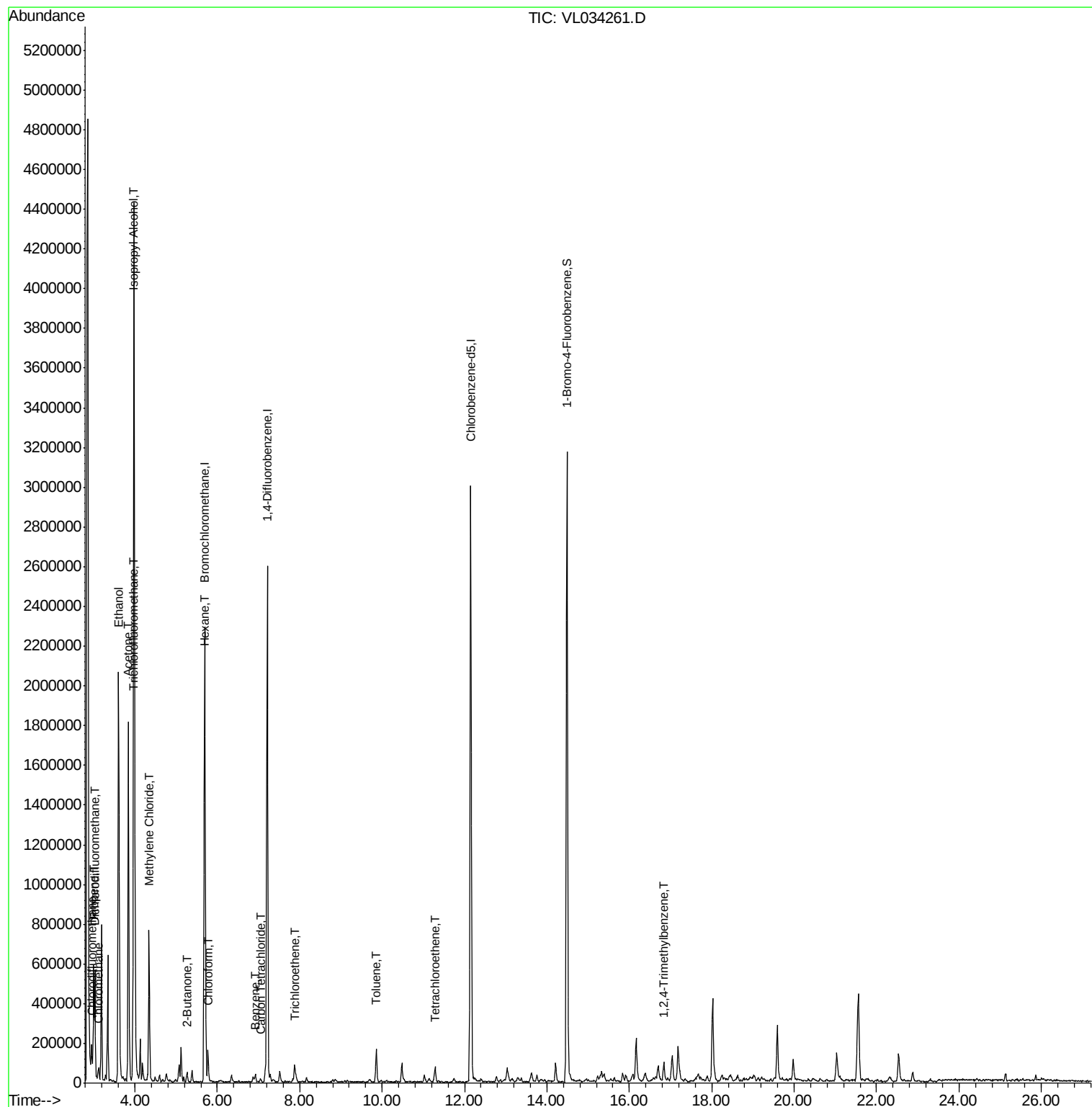
Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100819\
Data File : VL034261.D
Acq On : 8 Oct 2019 23:12
Operator : SY/AP
Sample : K5243-02
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

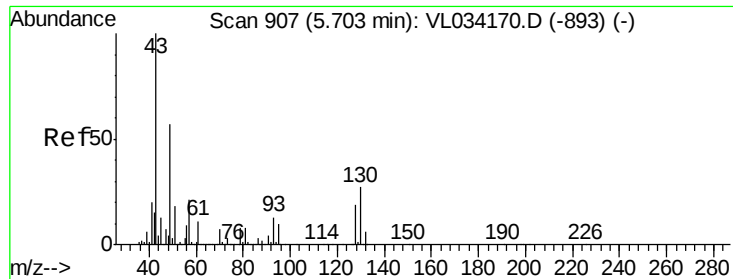
Instrument :
MSVOA_L
ClientSampleId :
IA1

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MMDadoda
10/11/2019 5:07:34 PM

Quant Time: Oct 09 05:56:06 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.02 min

Lab File: VL034261.D

Acq: 8 Oct 2019 23:12

Instrument :

MSVOA_L

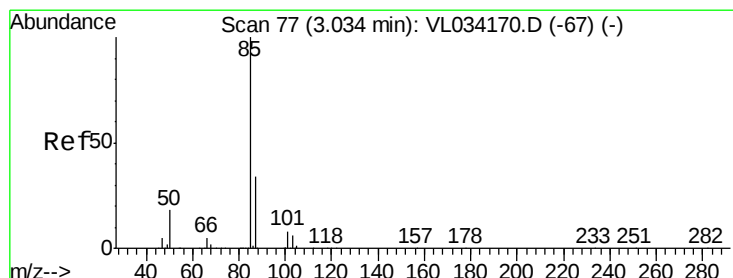
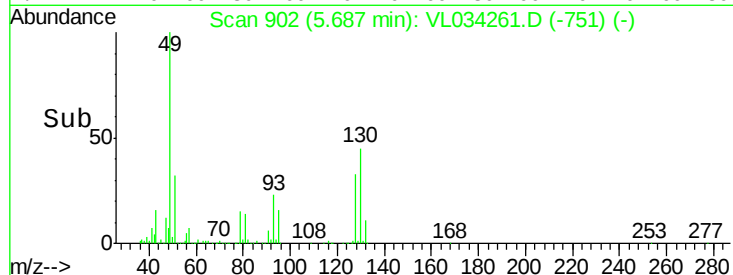
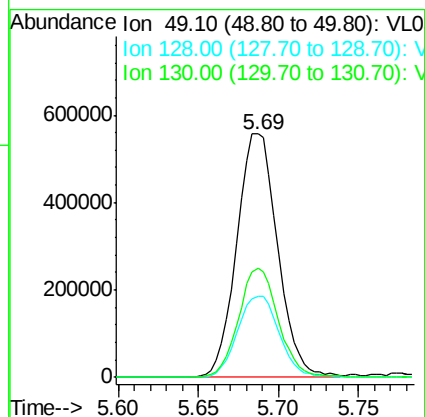
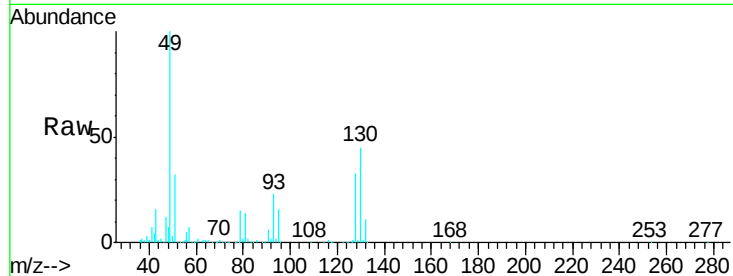
ClientSampled :

IA1

Tgt Ion:	49	Resp:	970022
Ion	Ratio	Lower	Upper
49	100		
128	34.2	17.6	52.9
130	44.0	22.3	66.9

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 2.426 ppbv

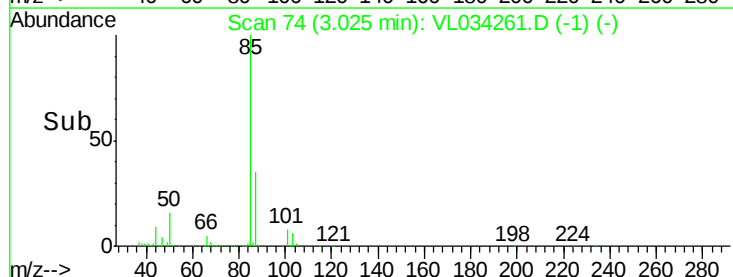
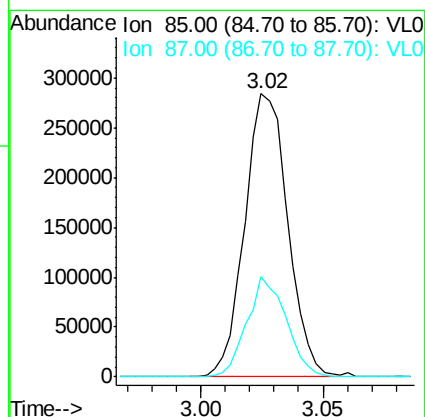
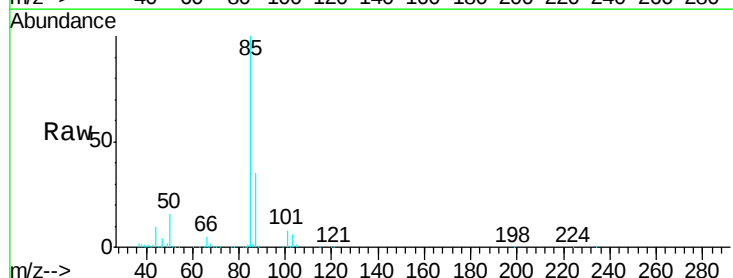
RT: 3.02 min Scan# 74

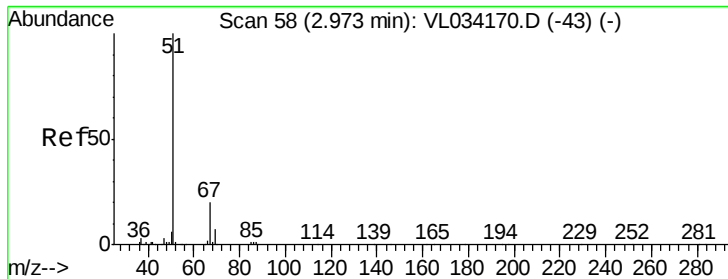
Delta R.T. -0.01 min

Lab File: VL034261.D

Acq: 8 Oct 2019 23:12

Tgt Ion:	85	Resp:	347663
Ion	Ratio	Lower	Upper
85	100		
87	35.5	27.2	40.8





#3

Chlorodifluoromethane

Concen: 0.411 ppbv m

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL034261.D

Acq: 8 Oct 2019 23:12

Instrument :

MSVOA_L

ClientSampled :

IA1

Tgt Ion: 51 Resp: 46710

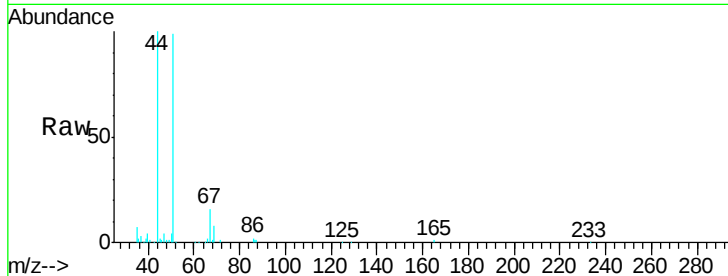
Ion Ratio Lower Upper

51 100

67 18.0 14.8 22.2

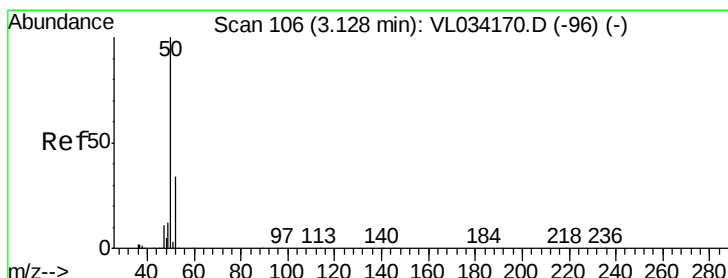
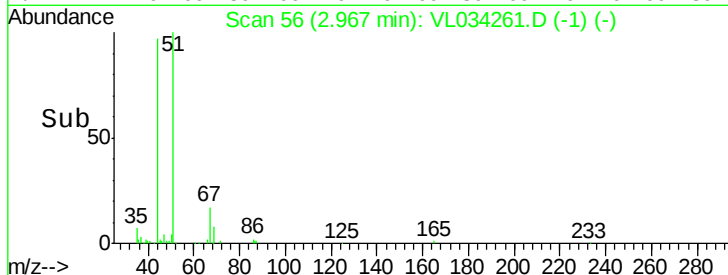
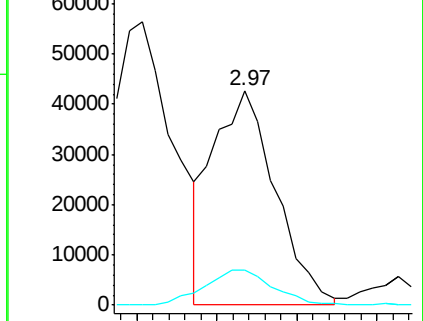
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.447 ppbv m

RT: 3.12 min Scan# 103

Delta R.T. -0.01 min

Lab File: VL034261.D

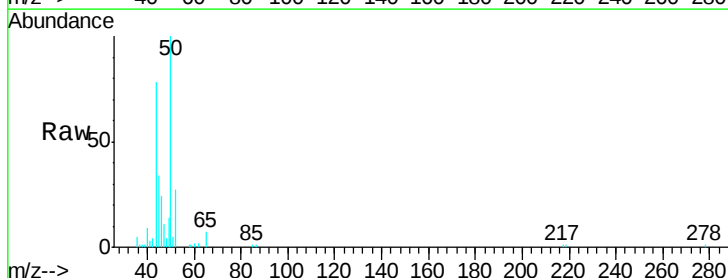
Acq: 8 Oct 2019 23:12

Tgt Ion: 50 Resp: 29894

Ion Ratio Lower Upper

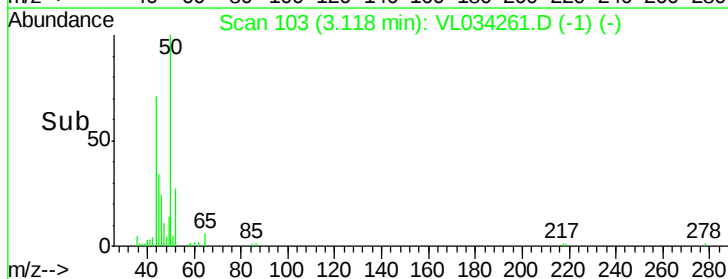
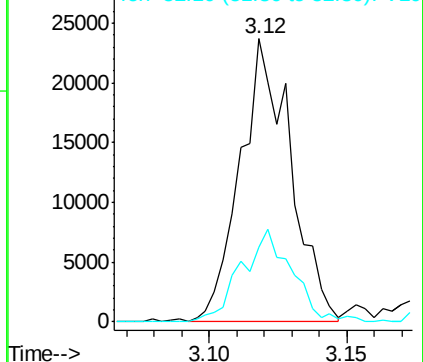
50 100

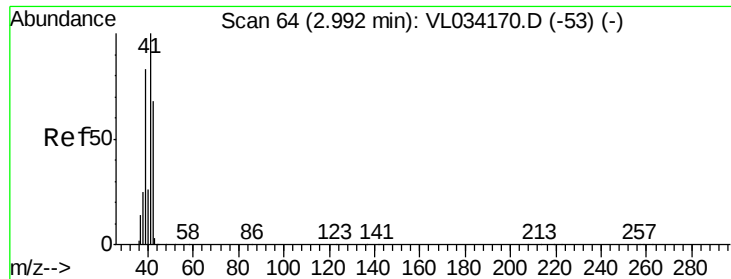
52 26.6 27.1 40.7#



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 1.904 ppbv m

RT: 3.00 min Scan# 66

Delta R.T. 0.01 min

Lab File: VL034261.D

Acq: 8 Oct 2019 23:12

Instrument :

MSVOA_L

ClientSampled :

IA1

Tgt Ion: 41 Resp: 106841

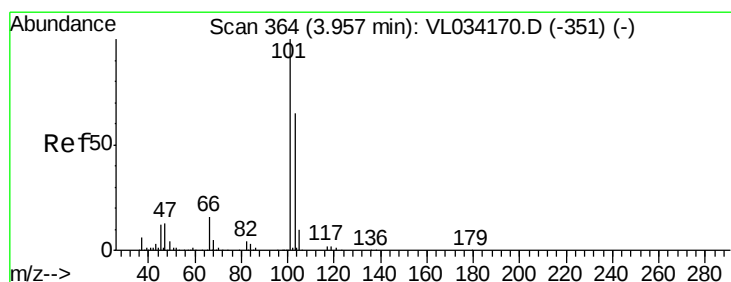
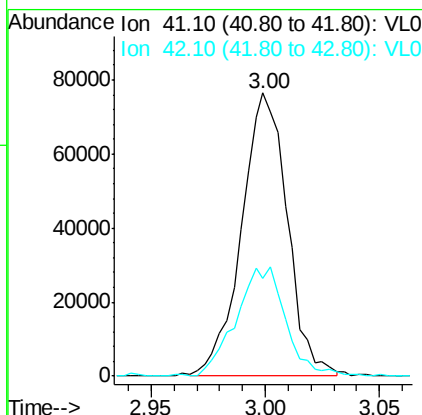
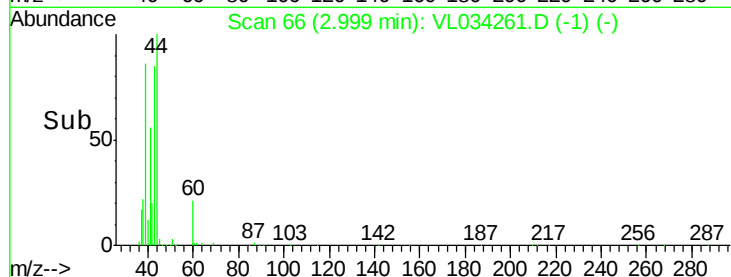
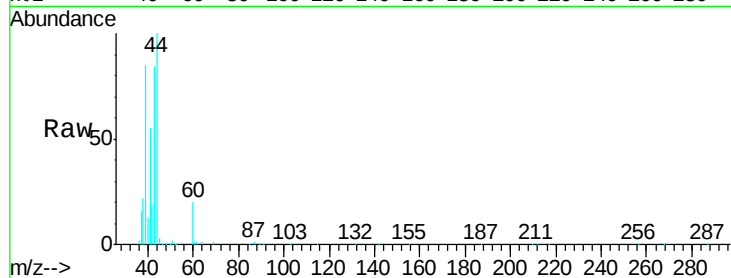
Ion Ratio Lower Upper

41 100

42 123.0 55.8 83.6#

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#11

Trichlorofluoromethane

Concen: 0.371 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL034261.D

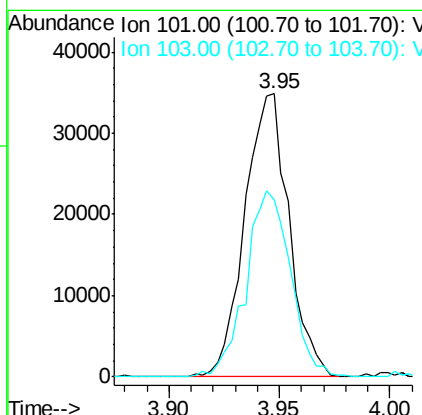
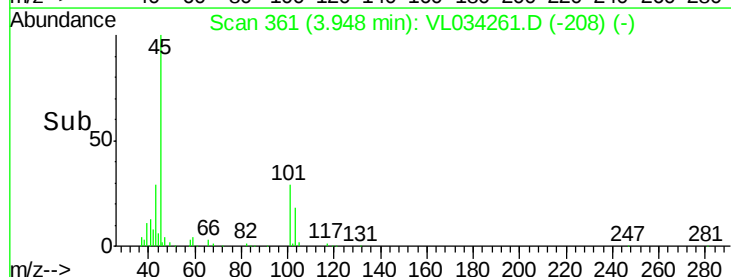
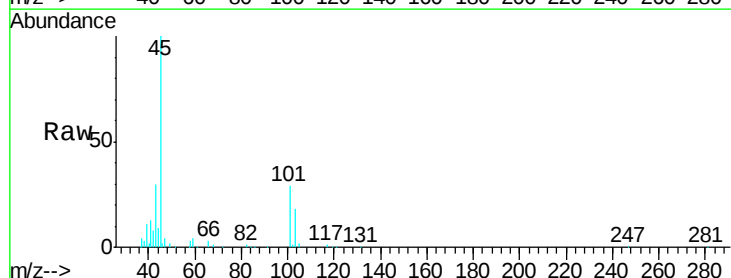
Acq: 8 Oct 2019 23:12

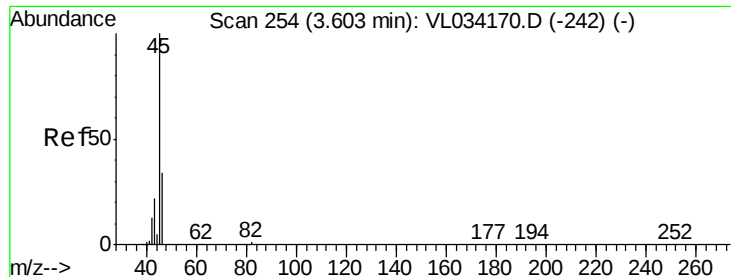
Tgt Ion: 101 Resp: 48398

Ion Ratio Lower Upper

101 100

103 62.7 52.1 78.1





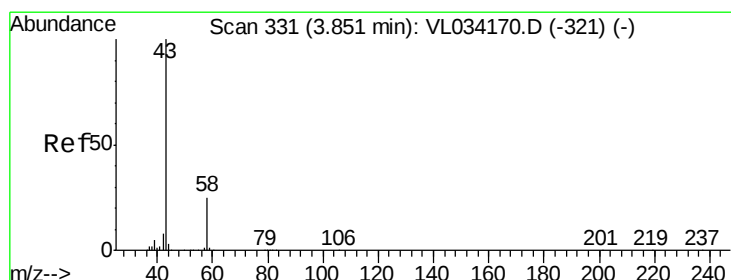
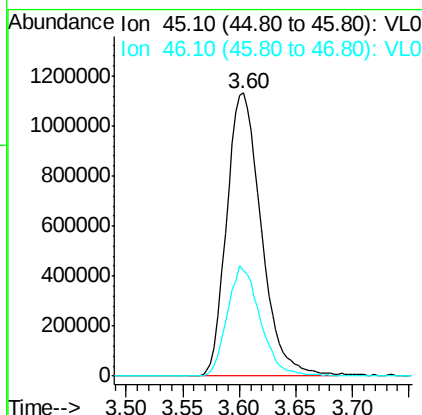
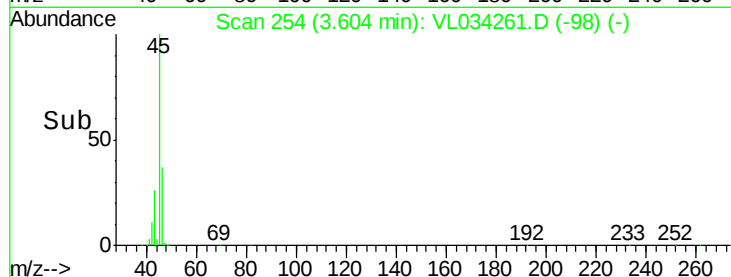
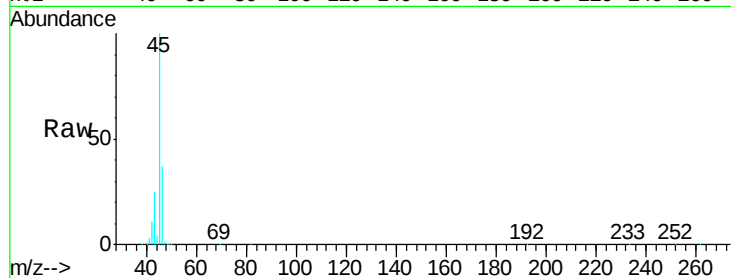
#13
Ethanol
Concen: 177.580 ppbv
RT: 3.60 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL034261.D
Acq: 8 Oct 2019 23:12

Instrument :
MSVOA_L
ClientSampled :
IA1

Tgt Ion: 45 Resp: 2412953
Ion Ratio Lower Upper
45 100
46 37.3 15.5 61.9

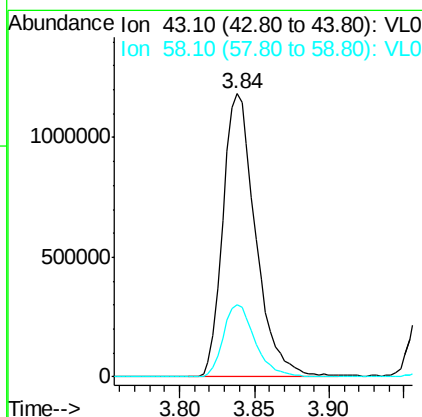
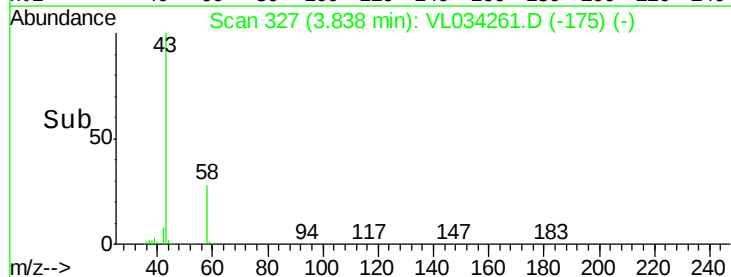
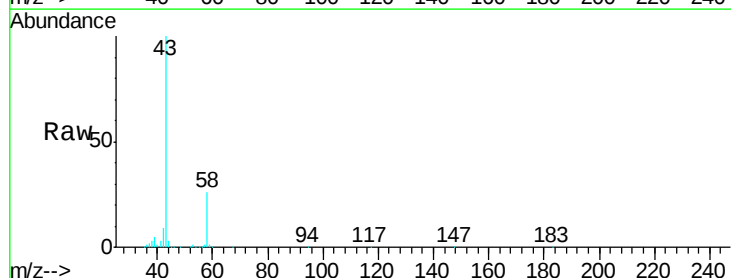
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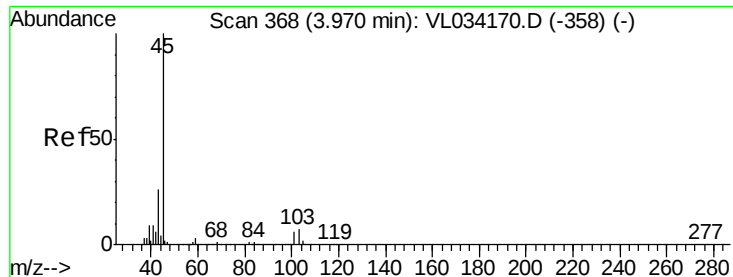
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#15
Acetone
Concen: 13.818 ppbv
RT: 3.84 min Scan# 327
Delta R.T. -0.01 min
Lab File: VL034261.D
Acq: 8 Oct 2019 23:12

Tgt Ion: 43 Resp: 1796422
Ion Ratio Lower Upper
43 100
58 25.2 20.5 30.7





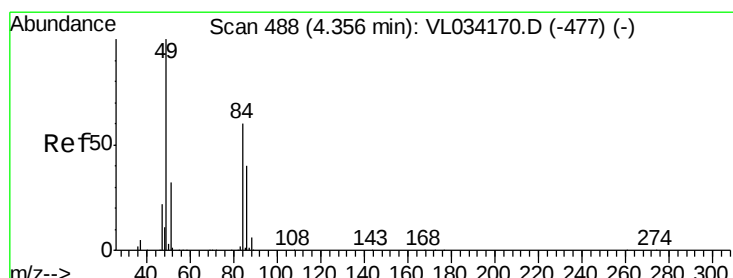
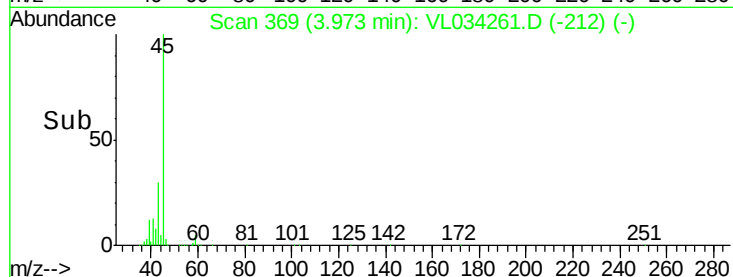
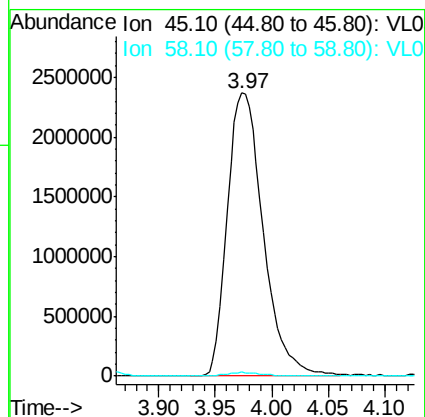
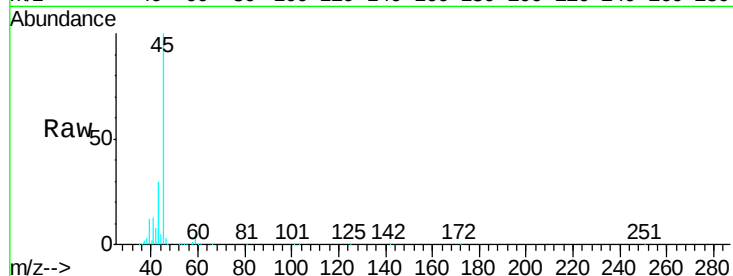
#19
Isopropyl Alcohol
Concen: 65.379 ppbv
RT: 3.97 min Scan# 369
Delta R.T. 0.00 min
Lab File: VL034261.D
Acq: 8 Oct 2019 23:12

Instrument :
MSVOA_L
ClientSampled :
IA1

Tgt Ion: 45 Resp: 5226827
Ion Ratio Lower Upper
45 100
58 1.4 1.4 2.0

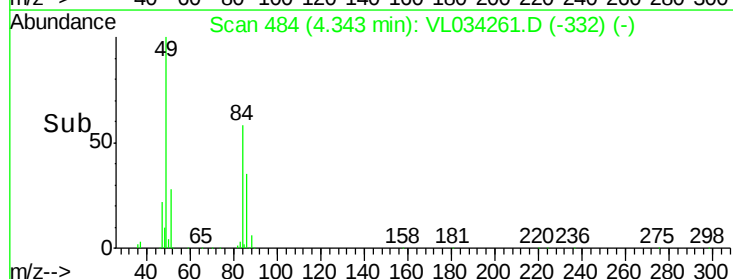
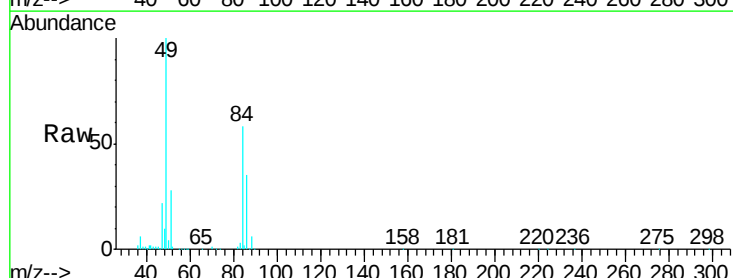
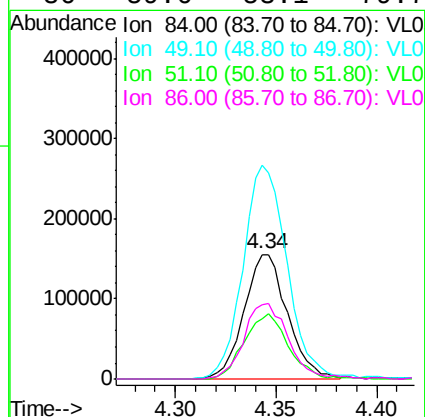
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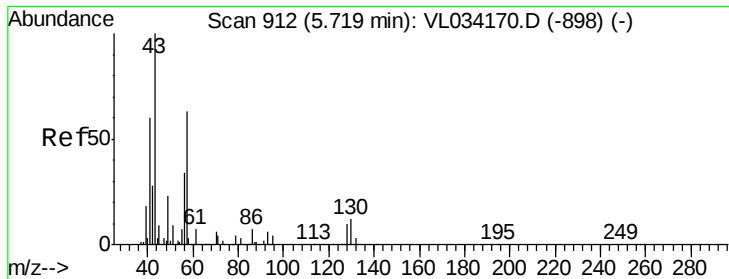
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#20
Methylene Chloride
Concen: 6.254 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL034261.D
Acq: 8 Oct 2019 23:12

Tgt Ion: 84 Resp: 234420
Ion Ratio Lower Upper
84 100
49 170.8 133.8 200.8
51 48.1 43.6 65.4
86 59.6 53.1 79.7





#26

Hexane

Concen: 2.598 ppbv

RT: 5.71 min Scan# 908

Delta R.T. -0.01 min

Lab File: VL034261.D

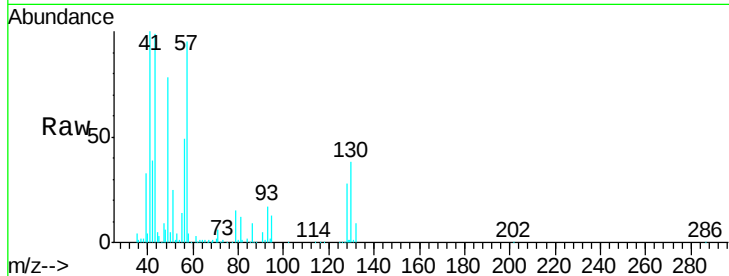
Acq: 8 Oct 2019 23:12

Instrument :

MSVOA_L

ClientSampleId :

IA1



Tgt Ion: 57 Resp: 265718

Ion Ratio Lower Upper

57 100

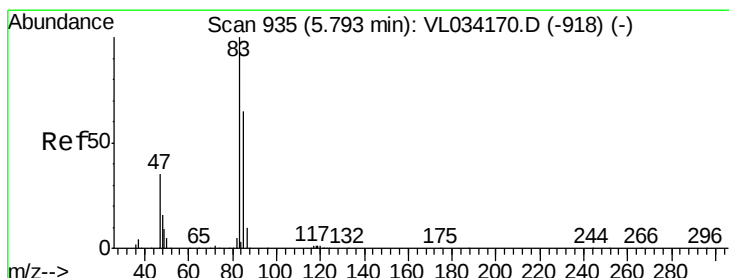
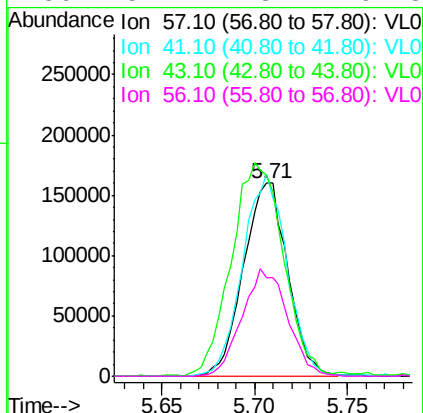
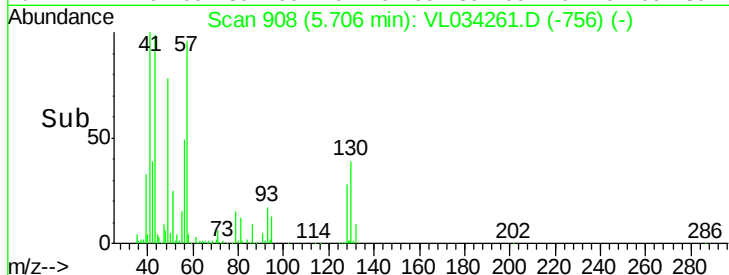
41 104.8 78.5 117.7

43 132.7 189.5 284.3#

56 57.4 43.2 64.8

Manual Integrations
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#29

Chloroform

Concen: 0.612 ppbv

RT: 5.77 min Scan# 929

Delta R.T. -0.02 min

Lab File: VL034261.D

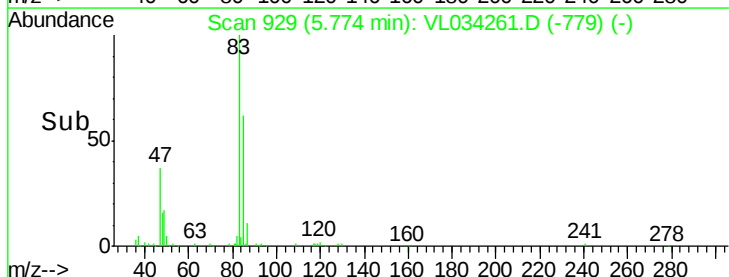
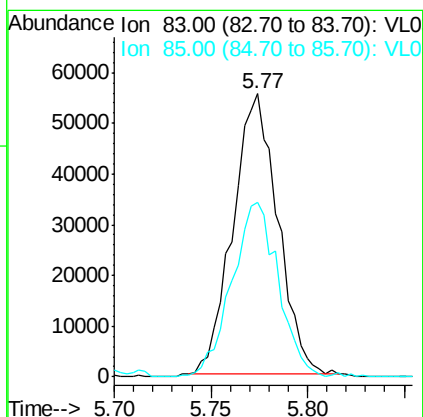
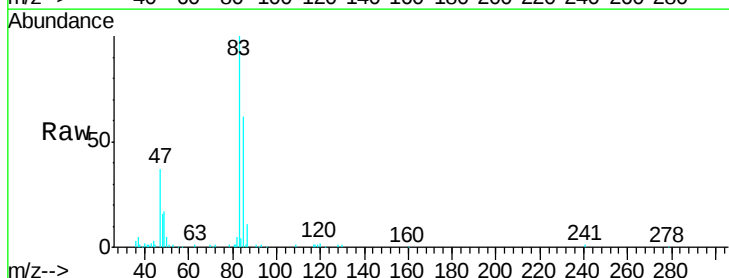
Acq: 8 Oct 2019 23:12

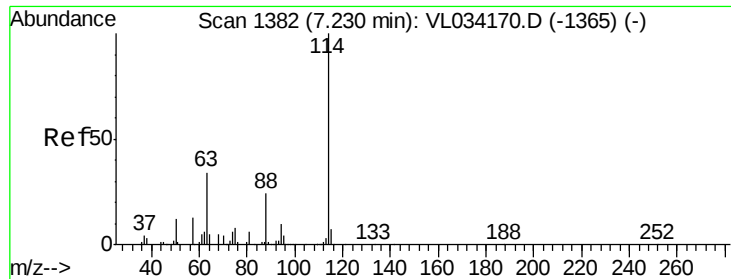
Tgt Ion: 83 Resp: 89422

Ion Ratio Lower Upper

83 100

85 61.7 52.3 78.5





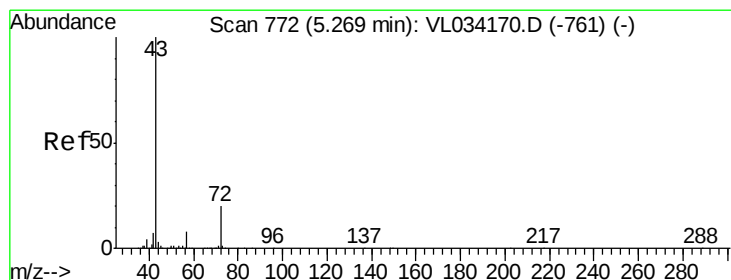
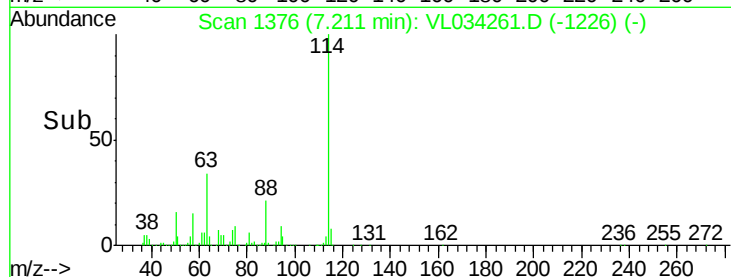
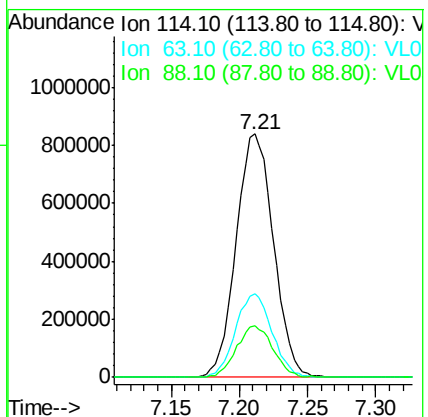
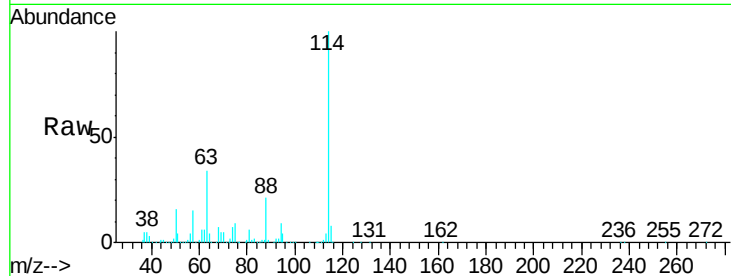
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.02 min
 Lab File: VL034261.D
 Acq: 8 Oct 2019 23:12

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tgt Ion: 114 Resp: 1598080
 Ion Ratio Lower Upper
 114 100
 63 33.9 27.8 41.6
 88 20.7 17.1 25.7

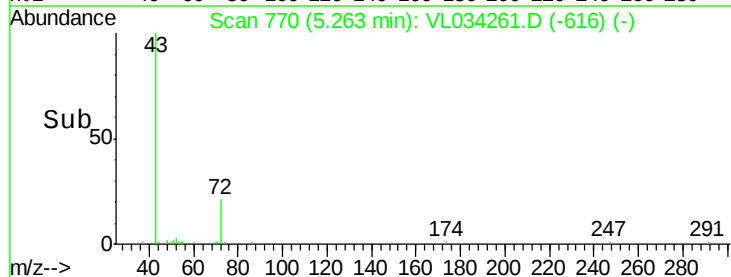
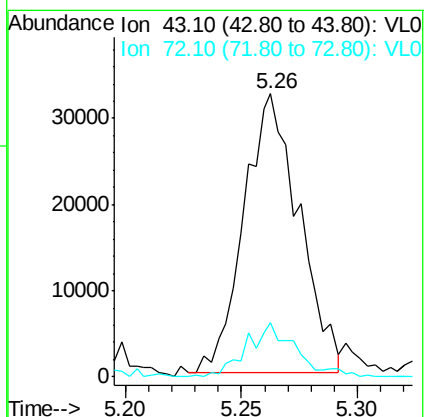
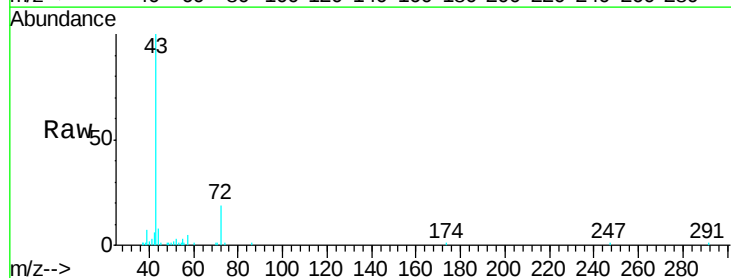
Manual Integrations
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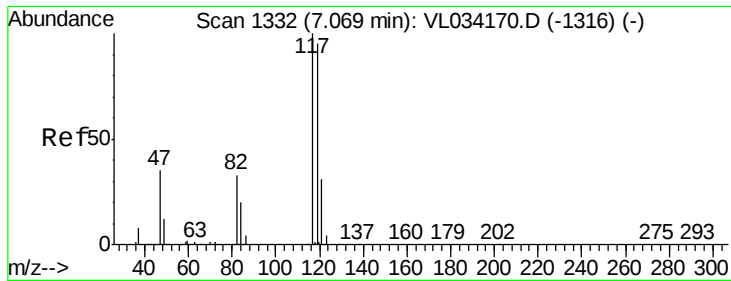
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#34
 2-Butanone
 Concen: 0.328 ppbv
 RT: 5.26 min Scan# 770
 Delta R.T. -0.01 min
 Lab File: VL034261.D
 Acq: 8 Oct 2019 23:12

Tgt Ion: 43 Resp: 53469
 Ion Ratio Lower Upper
 43 100
 72 17.2 15.0 22.6





#35

Carbon Tetrachloride

Concen: 0.057 ppbv m

RT: 7.05 min Scan# 1326

Delta R.T. -0.02 min

Lab File: VL034261.D

Acq: 8 Oct 2019 23:12

Instrument :

MSVOA_L

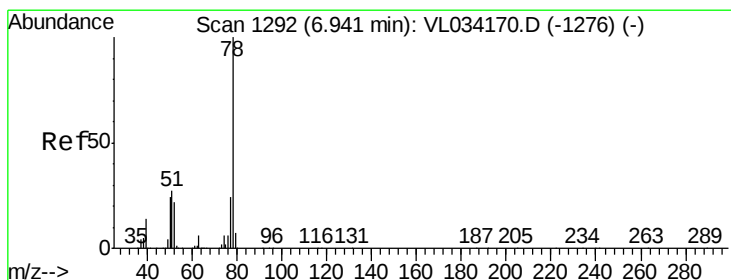
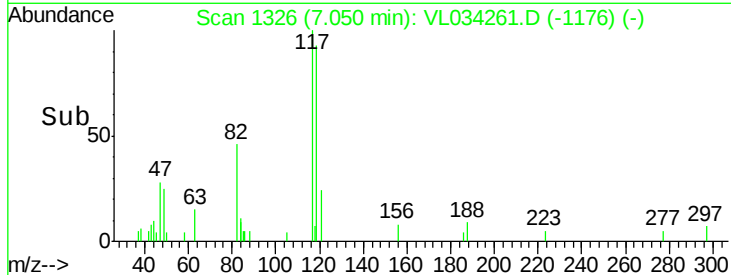
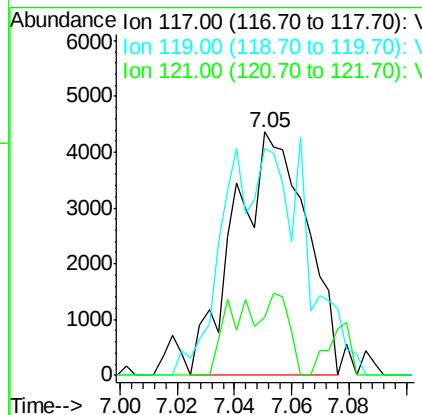
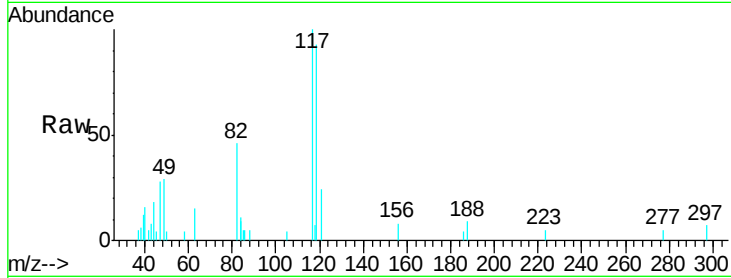
ClientSampled :

IA1

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.1	75.8	113.6
121	23.9	25.0	37.6#

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#36

Benzene

Concen: 0.120 ppbv m

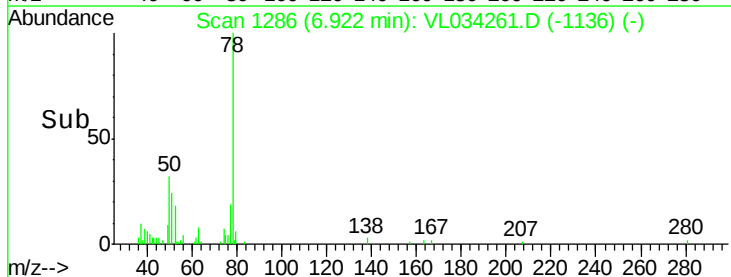
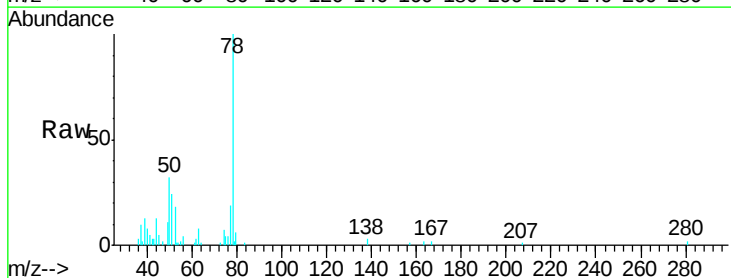
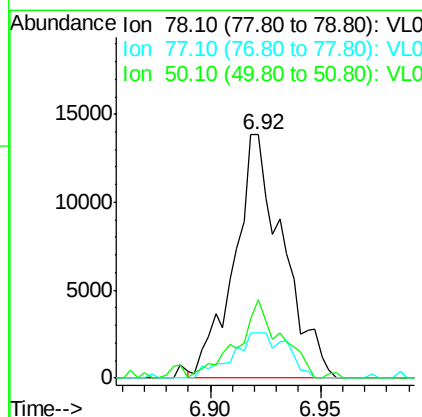
RT: 6.92 min Scan# 1286

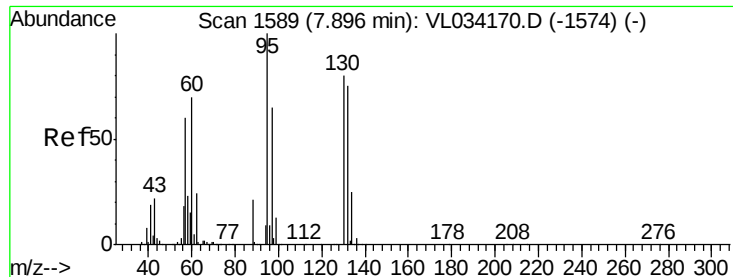
Delta R.T. -0.02 min

Lab File: VL034261.D

Acq: 8 Oct 2019 23:12

Tgt Ion	Ratio	Lower	Upper
78	100		
77	18.7	19.0	28.4#
50	32.2	18.9	28.3#





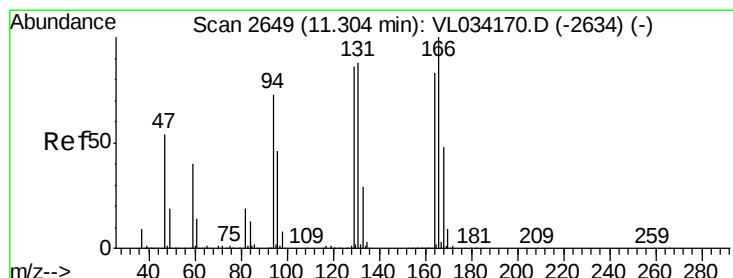
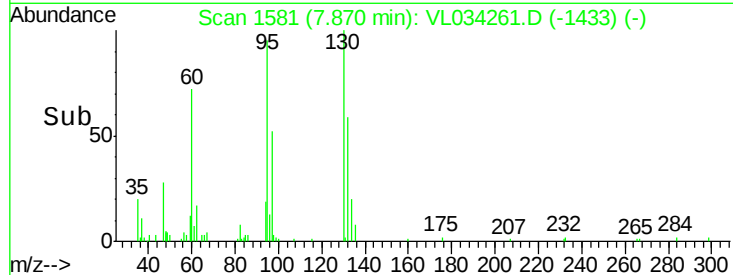
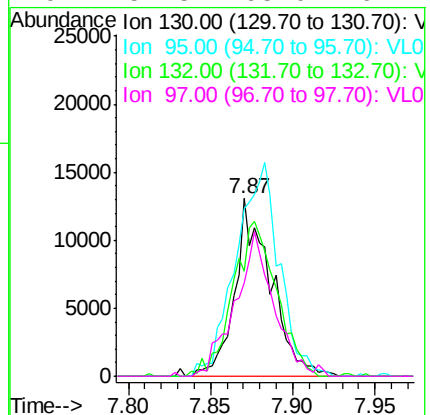
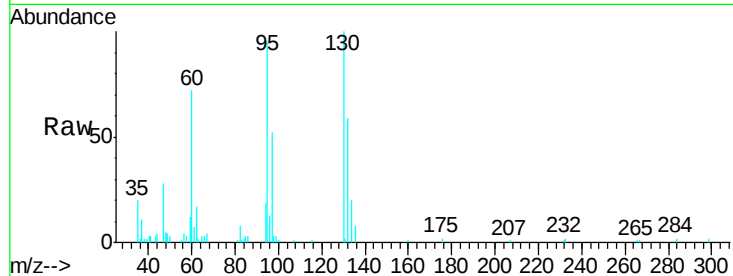
#38
 Trichloroethene
 Concen: 0.315 ppbv m
 RT: 7.87 min Scan# 1581
 Delta R.T. -0.03 min
 Lab File: VL034261.D
 Acq: 8 Oct 2019 23:12

Instrument :
 MSVOA_L
 ClientSampled :
 IA1

Tgt Ion	Ratio	Resp	Lower	Upper
130	100	19848		
95	94.5	99.8	149.6#	
132	59.2	75.2	112.8#	
97	52.5	65.0	97.4#	

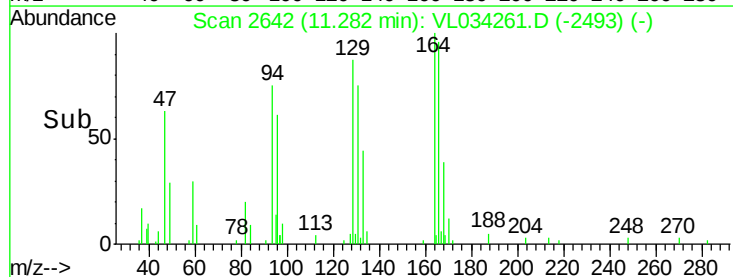
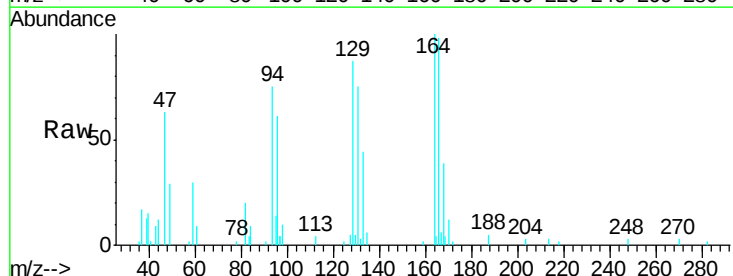
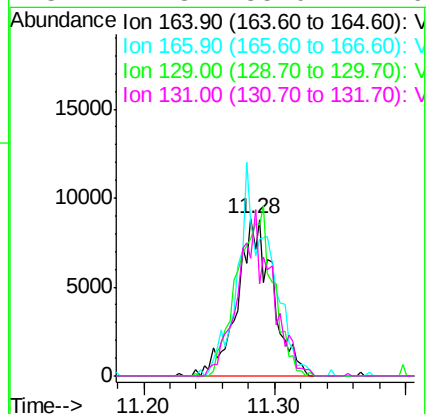
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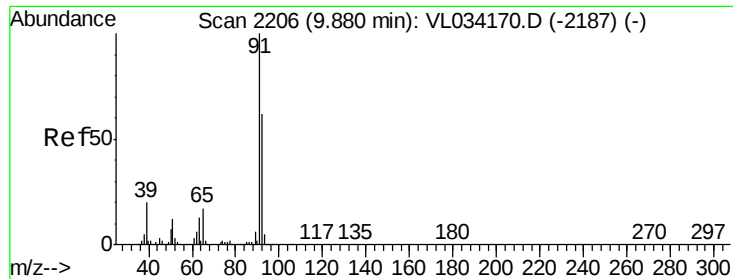
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#52
 Tetrachloroethene
 Concen: 0.282 ppbv m
 RT: 11.28 min Scan# 2642
 Delta R.T. -0.02 min
 Lab File: VL034261.D
 Acq: 8 Oct 2019 23:12

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	16466		
166	98.3	96.7	145.1	
129	87.3	82.8	124.2	
131	74.8	85.0	127.6#	





#53

Toluene

Concen: 0.510 ppbv

RT: 9.86 min Scan# 2201

Delta R.T. -0.02 min

Lab File: VL034261.D

Acq: 8 Oct 2019 23:12

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tgt Ion: 91 Resp: 98465

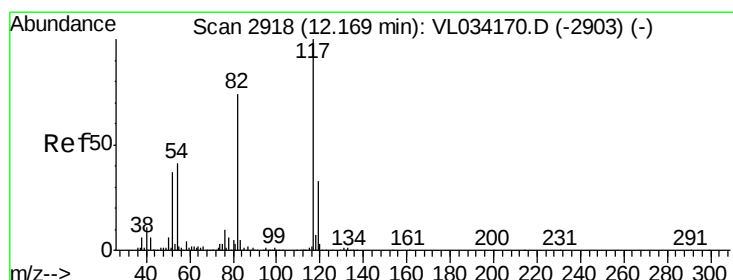
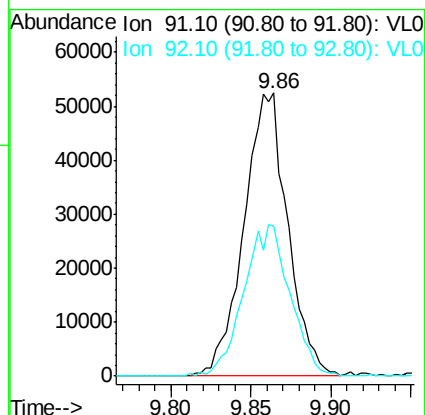
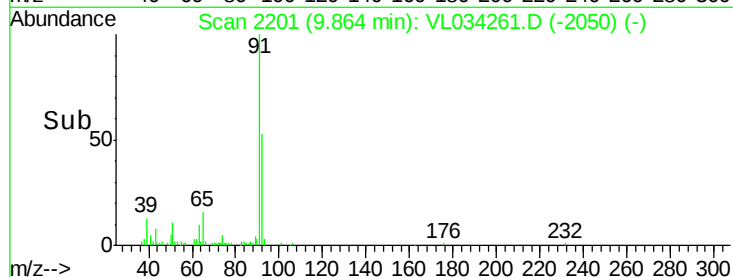
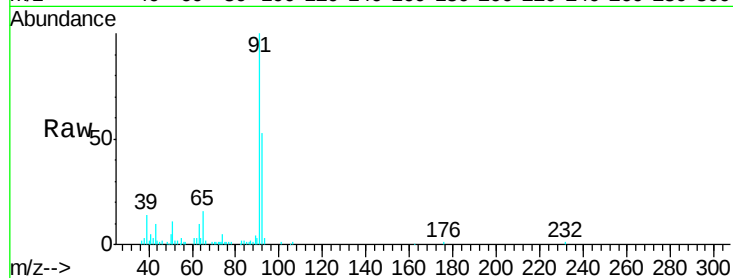
Ion Ratio Lower Upper

91 100

92 56.6 49.0 73.6

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.15 min Scan# 2912

Delta R.T. -0.02 min

Lab File: VL034261.D

Acq: 8 Oct 2019 23:12

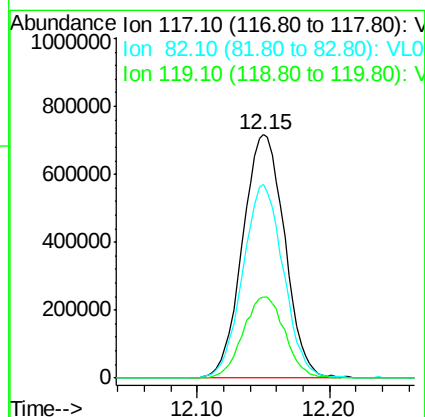
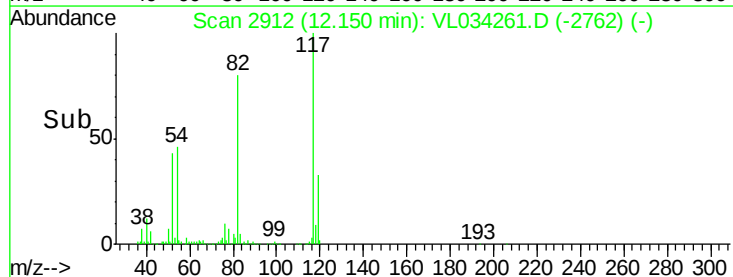
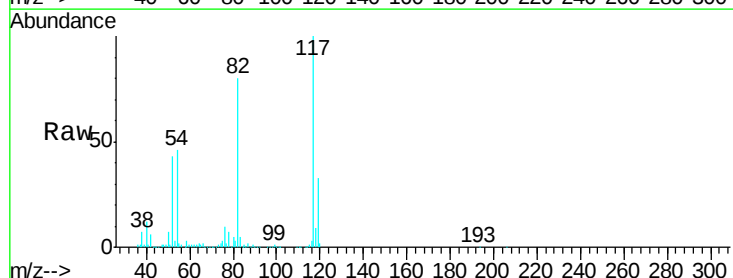
Tgt Ion: 117 Resp: 1582269

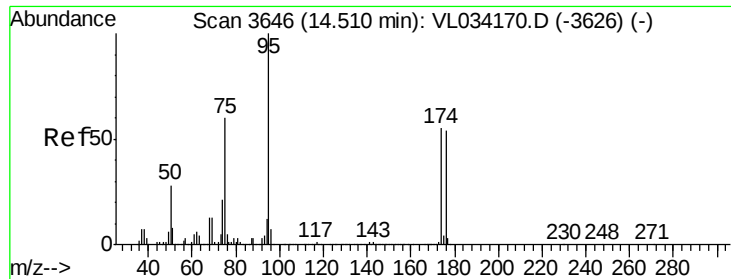
Ion Ratio Lower Upper

117 100

82 76.9 58.2 87.4

119 33.2 23.7 35.5





#68

1-Bromo-4-Fluorobenzene

Concen: 10.631 ppbv

RT: 14.49 min Scan# 3639

Delta R.T. -0.02 min

Lab File: VL034261.D

Acq: 8 Oct 2019 23:12

Instrument :

MSVOA_L

ClientSampled :

IA1

Tgt Ion: 95 Resp: 1461630

Ion Ratio Lower Upper

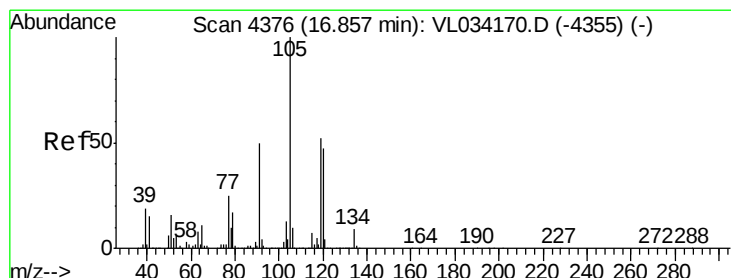
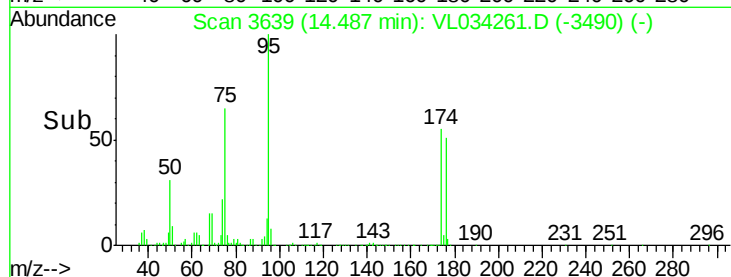
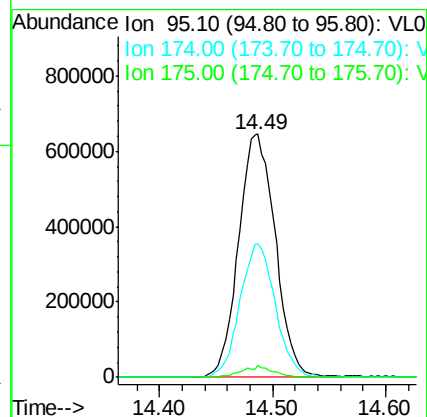
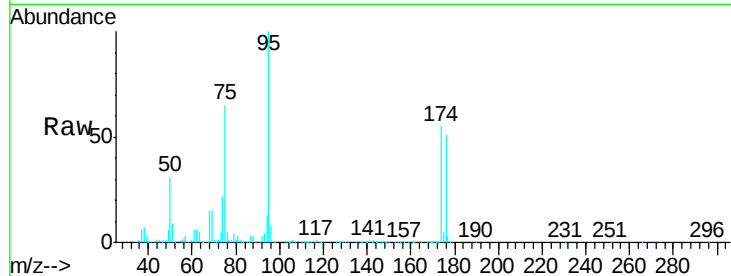
95 100

174 53.0 45.1 67.7

175 3.9 3.3 4.9

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#74

1,2,4-Trimethylbenzene

Concen: 0.213 ppbv

RT: 16.84 min Scan# 4370

Delta R.T. -0.02 min

Lab File: VL034261.D

Acq: 8 Oct 2019 23:12

Tgt Ion: 105 Resp: 52163

Ion Ratio Lower Upper

105 100

120 36.4 37.5 56.3#

91 9.0 41.1 61.7#

77 13.8 19.9 29.9#

