

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL101419\
 Data File : VL034292.D
 Acq On : 14 Oct 2019 21:58
 Operator : SY/AP
 Sample : K5302-03
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
 APPROVED

MMDadoda
 10/16/2019 12:59:38 AM

Quant Time: Oct 15 07:41:06 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Sep 18
 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	988897	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1674870	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1640913	10.00	ppbv	-0.02

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.49	95	1466203	10.28	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.03	85	85717	0.587	ppbv	94
3) Chlorodifluoromethane	2.97	51	33722m	0.291	ppbv	
4) Chloromethane	3.12	50	28418	0.417	ppbv	95
9) Propene	2.99	41	31915m	0.558	ppbv	
11) Trichlorofluoromethane	3.95	101	29079	0.219	ppbv #	77
13) Ethanol	3.61	45	63303	4.570	ppbv	96
15) Acetone	3.84	43	325110	2.453	ppbv	99
19) Isopropyl Alcohol	3.98	45	33342m	0.409	ppbv	
20) Methylene Chloride	4.35	84	46244	1.210	ppbv #	90
26) Hexane	5.71	57	90663	0.870	ppbv #	43
34) 2-Butanone	5.27	43	43772	0.256	ppbv	100
35) Carbon Tetrachloride	7.05	117	7725m	0.056	ppbv	
36) Benzene	6.93	78	27763	0.150	ppbv #	93
53) Toluene	9.86	91	77224	0.382	ppbv	98

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

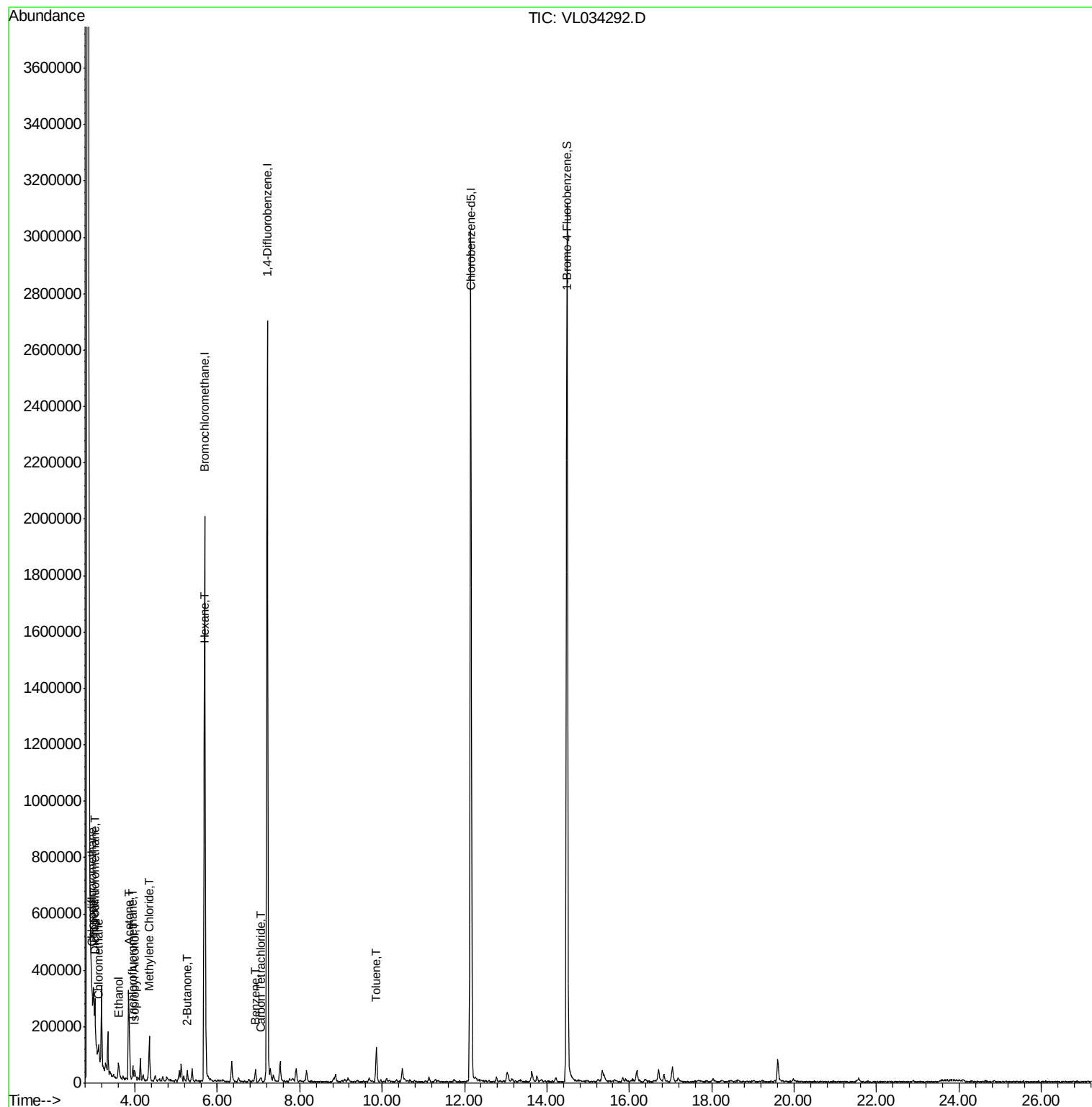
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL101419\
Data File : VL034292.D
Acq On : 14 Oct 2019 21:58
Operator : SY/AP
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Misc : 400ml/MSVOA L
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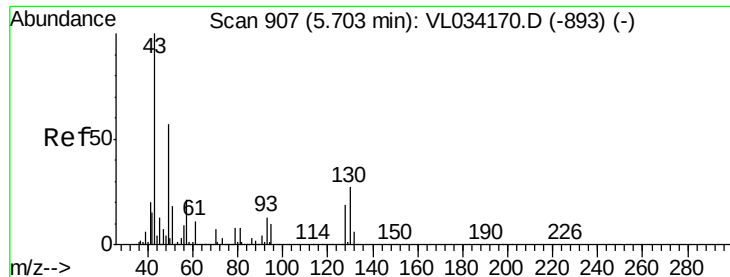
Instrument :
MSVOA_L
ClientSampleId :
OA1

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Quant Time: Oct 15 07:41:06 2019
Quant Method : Z:\V0ASRV\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: VL034292.D

Acq: 14 Oct 2019 21:58

Instrument :

MSVOA_L

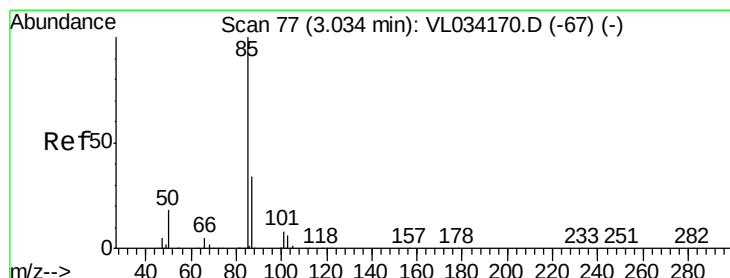
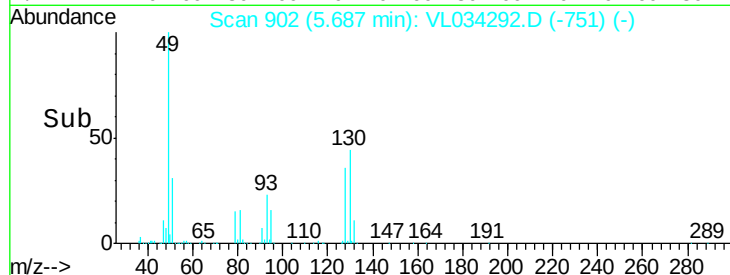
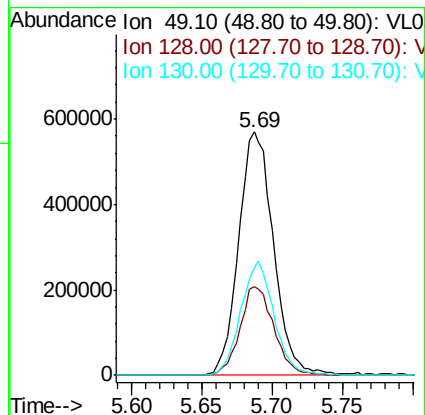
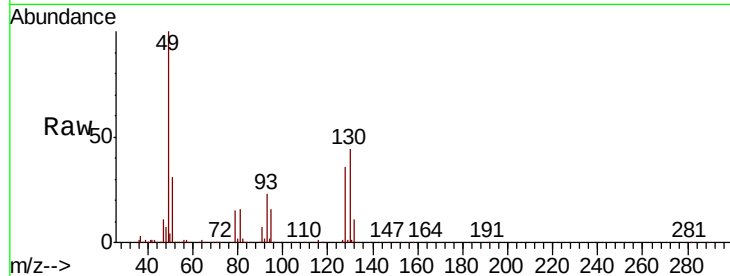
ClientSampled :

QA1

Tot Ion:	49	Resp:	988897
Ion	Ratio	Lower	Upper
49	100		
128	36.0	17.6	52.9
130	45.0	22.3	66.9

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#2

Dichlorodifluoromethane

Concen: 0.587 ppbv

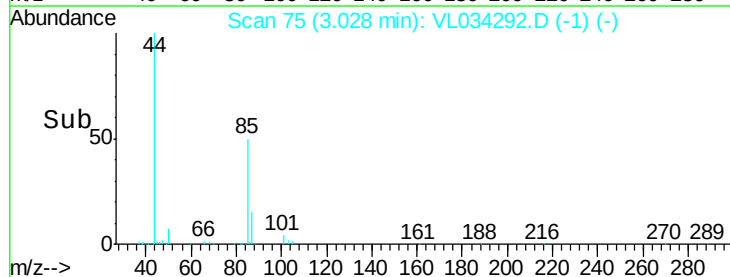
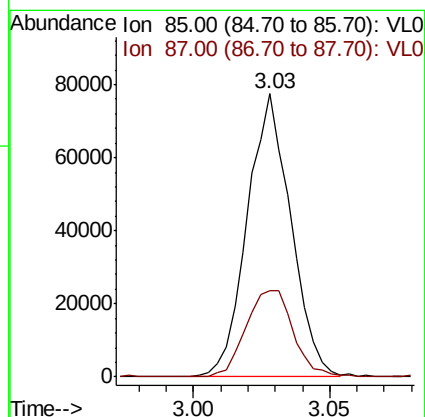
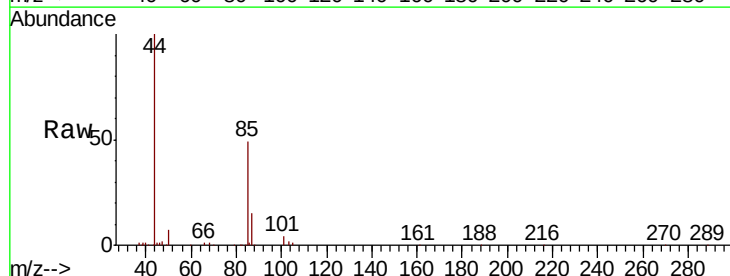
RT: 3.03 min Scan# 75

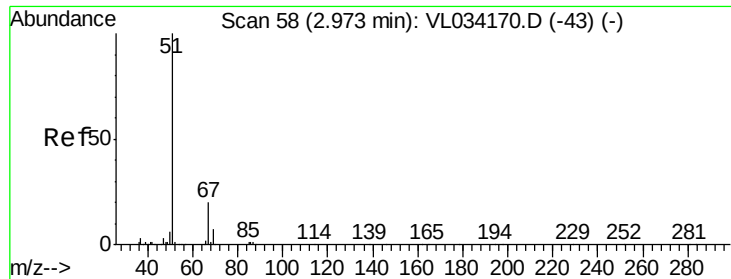
Delta R.T. -0.01 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Tgt Ion:	85	Resp:	85717
Ion	Ratio	Lower	Upper
85	100		
87	30.7	27.2	40.8





#3

Chlorodifluoromethane

Concen: 0.291 ppbv

RT: 2.97 min Scan# 56

Delta R.T. -0.01 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Instrument :

MSVOA_L

ClientSampleId :

QA1

Tot Ion: 51 Resp: 33722

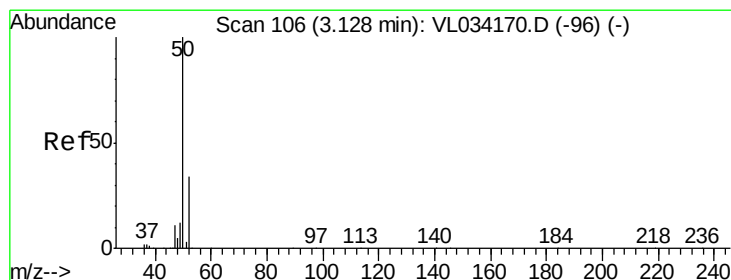
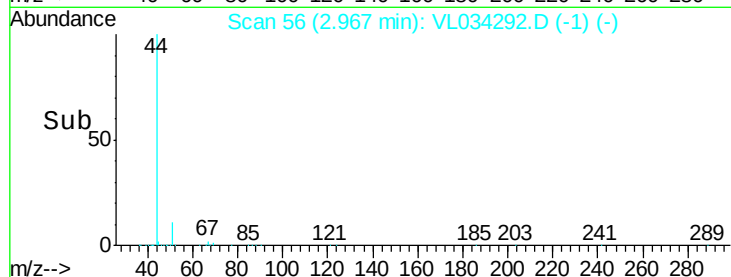
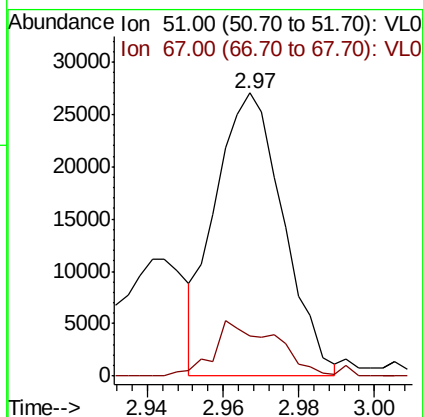
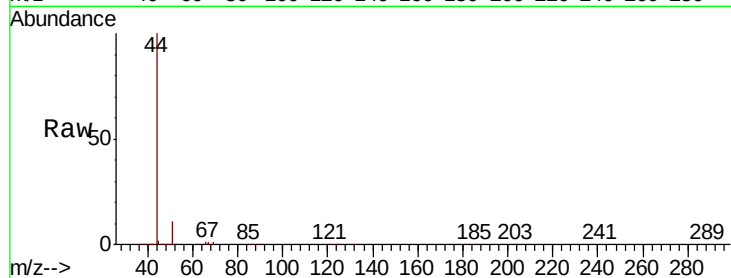
Ion Ratio Lower Upper

51 100

67 18.3 14.8 22.2

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#4

Chloromethane

Concen: 0.417 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL034292.D

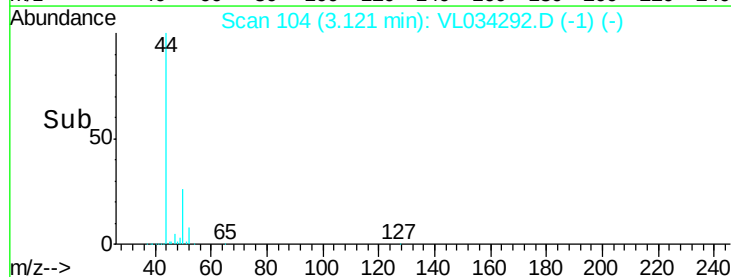
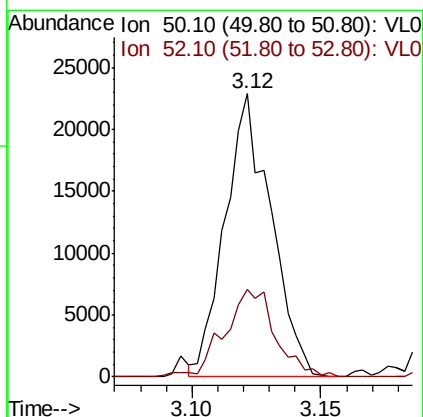
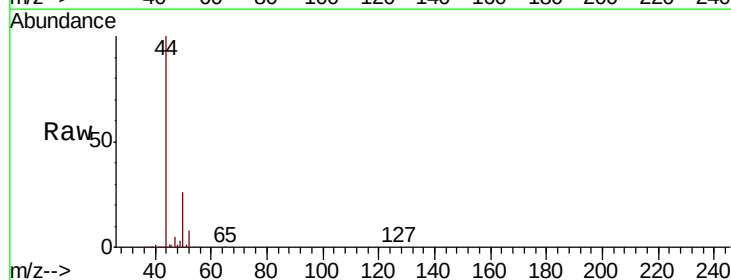
Acq: 14 Oct 2019 21:58

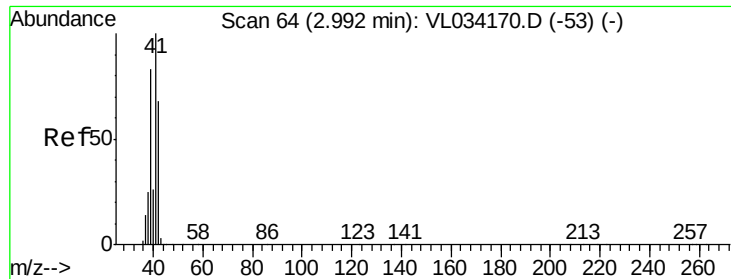
Tgt Ion: 50 Resp: 28418

Ion Ratio Lower Upper

50 100

52 30.8 27.1 40.7





#9

Propene

Concen: 0.558 ppbv m

RT: 2.99 min Scan# 63

Delta R.T. -0.00 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 41 Resp: 31915

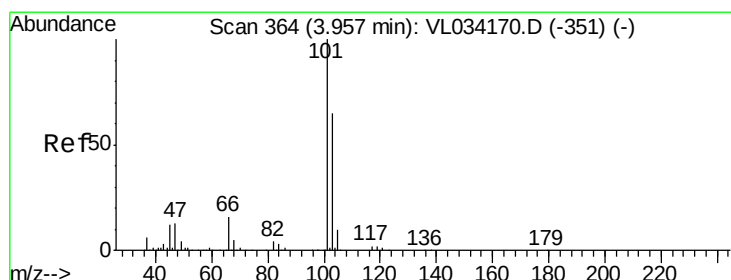
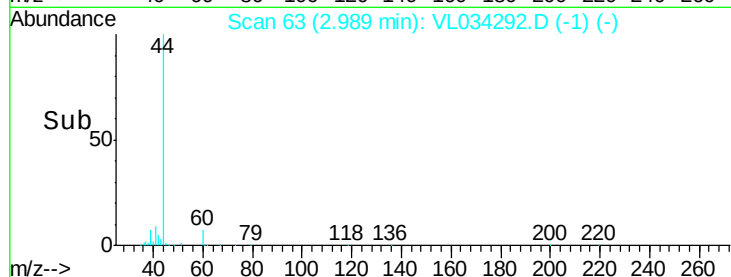
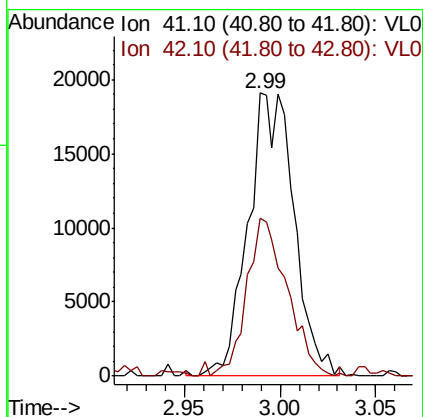
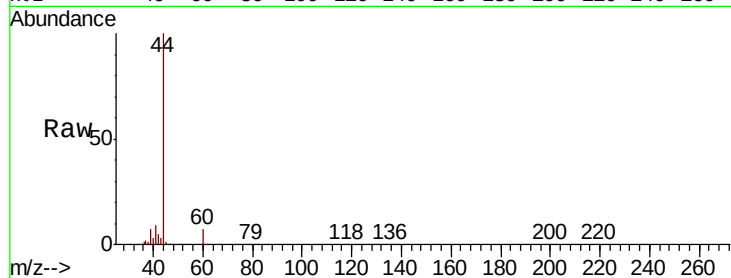
Ion Ratio Lower Upper

41 100

42 134.5 55.8 83.6#

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#11

Trichlorofluoromethane

Concen: 0.219 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL034292.D

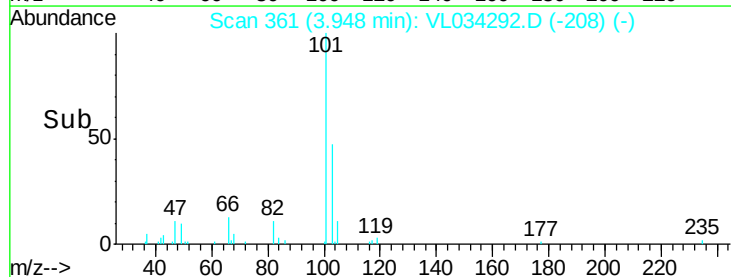
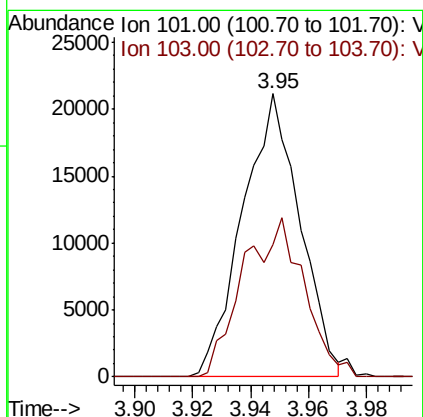
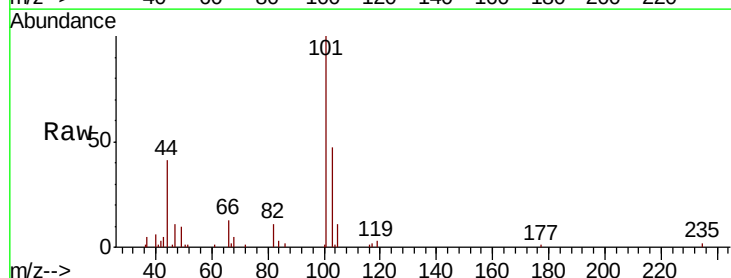
Acq: 14 Oct 2019 21:58

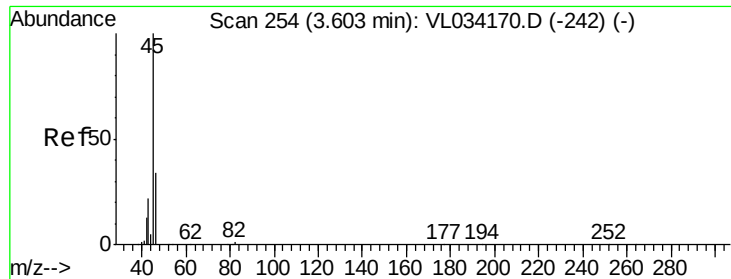
Tgt Ion: 101 Resp: 29079

Ion Ratio Lower Upper

101 100

103 46.9 52.1 78.1#





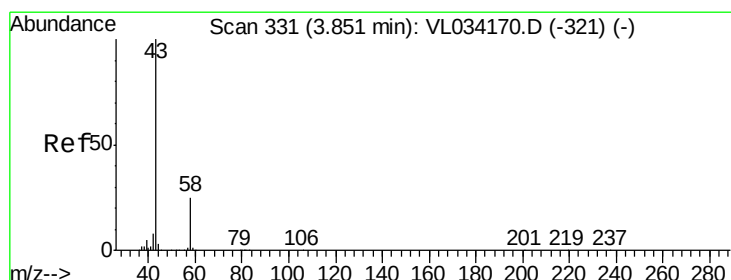
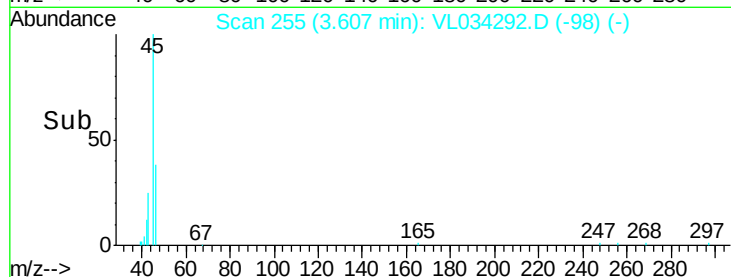
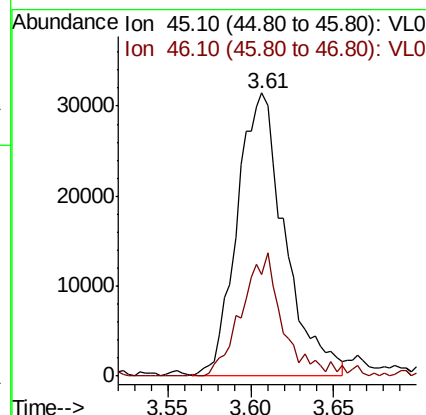
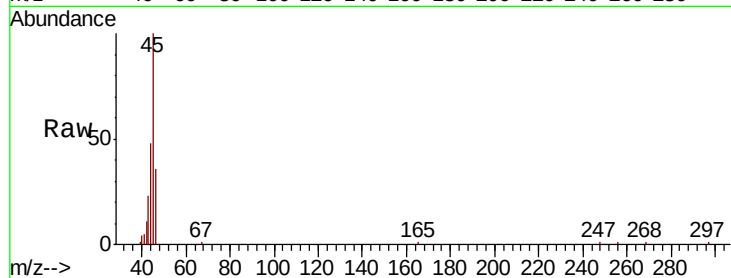
#13
Ethanol
Concen: 4.570 ppbv
RT: 3.61 min Scan# 255
Delta R.T. 0.00 min
Lab File: VL034292.D
Acq: 14 Oct 2019 21:58

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	45	46	Ratio	Lower	Upper
Resp	63303				
Ion	100	36.1		15.5	61.9

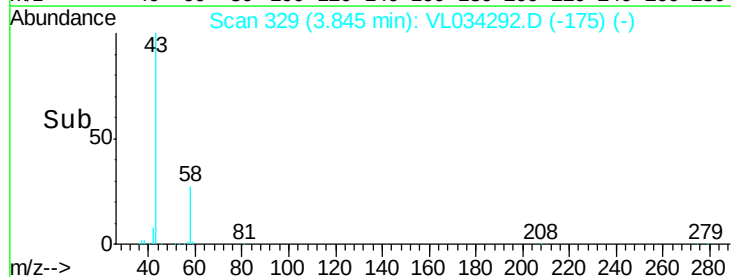
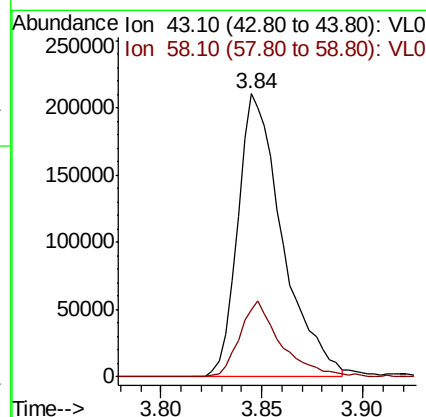
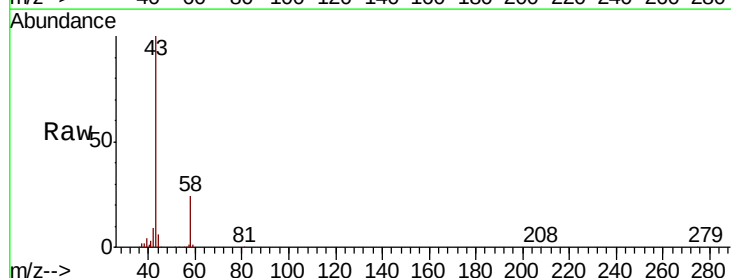
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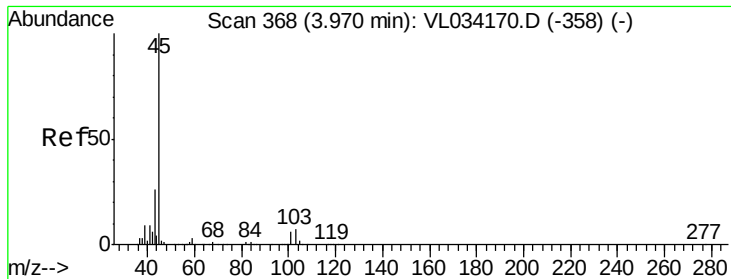
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#15
Acetone
Concen: 2.453 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL034292.D
Acq: 14 Oct 2019 21:58

Tgt Ion	43	58	Ratio	Lower	Upper
Resp	325110				
Ion	100	25.0		20.5	30.7





#19

Isopropyl Alcohol

Concen: 0.409 ppbv m

RT: 3.98 min Scan# 372

Delta R.T. 0.01 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 45 Resp: 33342

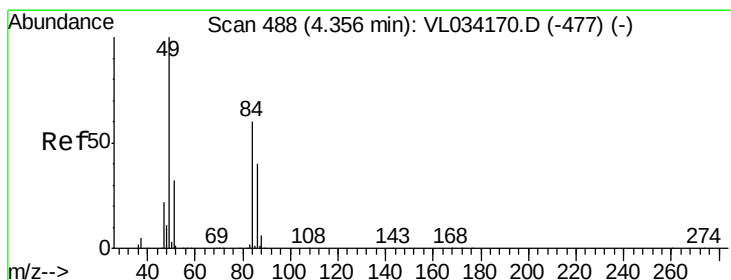
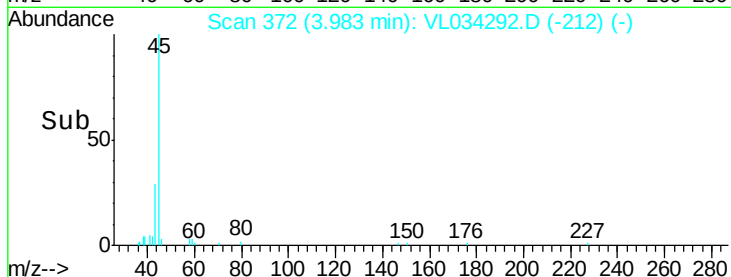
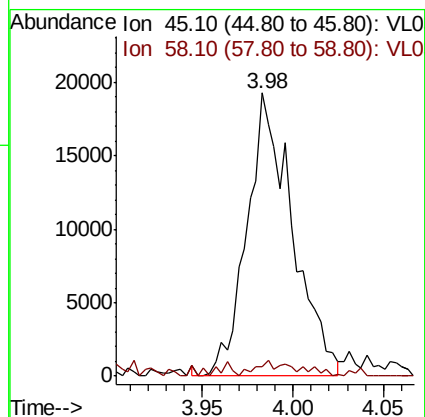
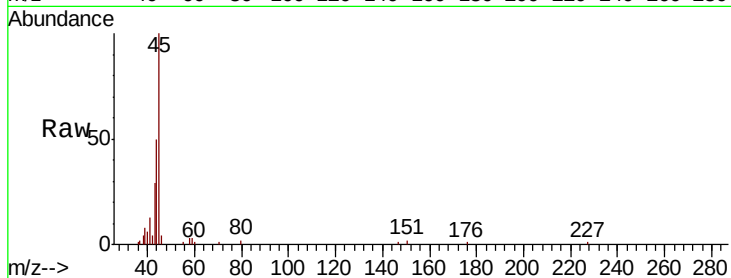
Ion Ratio Lower Upper

45 100

58 0.0 1.4 2.0#

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#20

Methylene Chloride

Concen: 1.210 ppbv

RT: 4.35 min Scan# 485

Delta R.T. -0.01 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Tgt Ion: 84 Resp: 46244

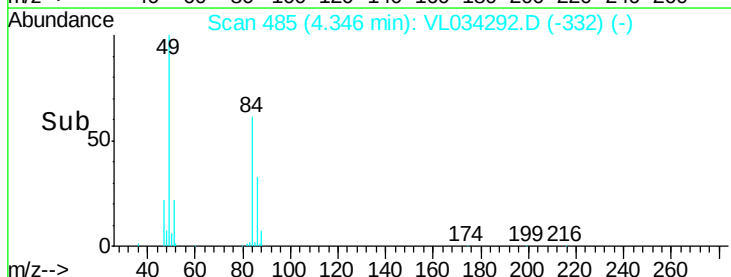
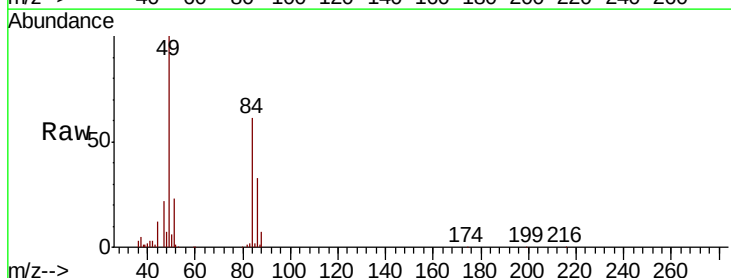
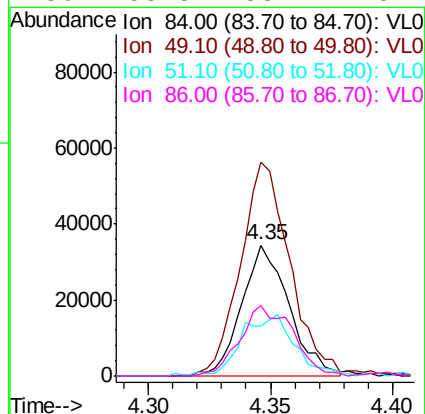
Ion Ratio Lower Upper

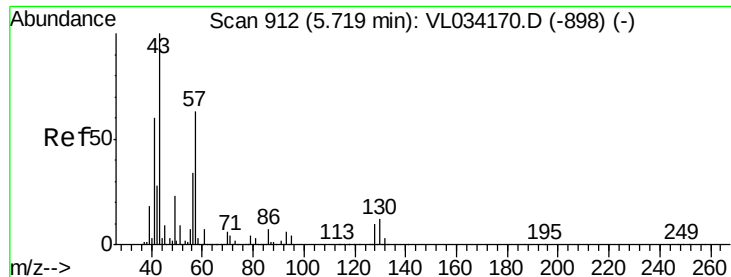
84 100

49 162.4 133.8 200.8

51 39.1 43.6 65.4#

86 53.5 53.1 79.7





#26

Hexane

Concen: 0.870 ppbv

RT: 5.71 min Scan# 909

Delta R.T. -0.01 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Instrument :

MSVOA_L

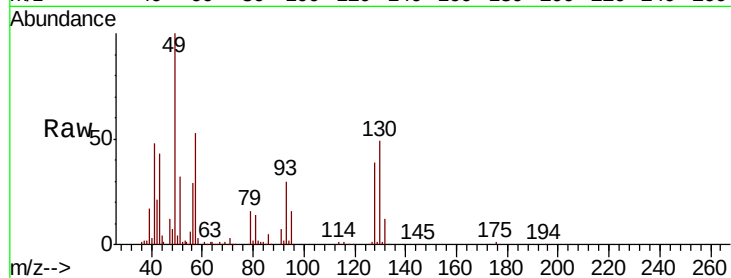
ClientSampled :

QA1

Tot Ion	57	Resp	90663
Ion	Ratio	Lower	Upper
57	100		
41	104.2	78.5	117.7
43	83.8	189.5	284.3#
56	56.4	43.2	64.8

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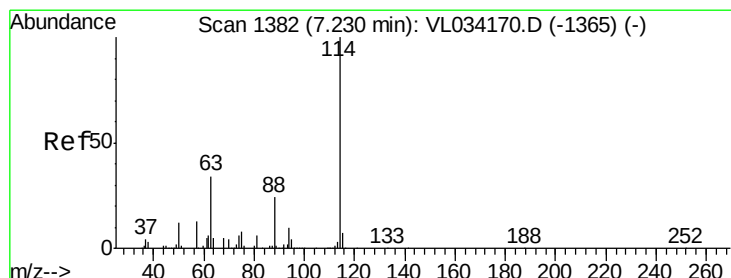
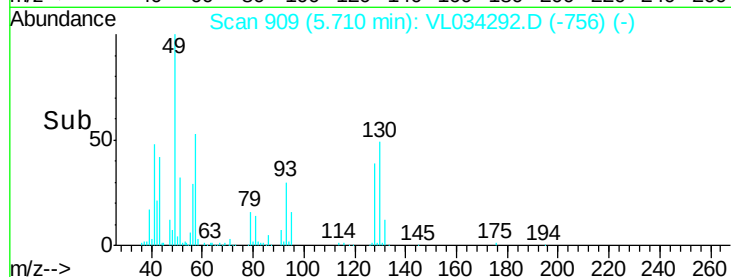
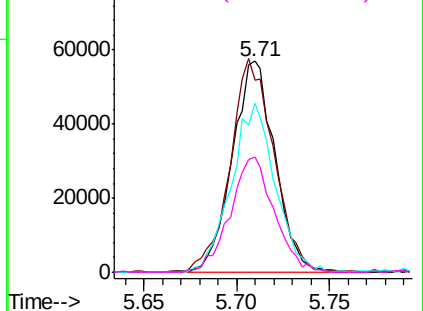


Abundance Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.21 min Scan# 1377

Delta R.T. -0.02 min

Lab File: VL034292.D

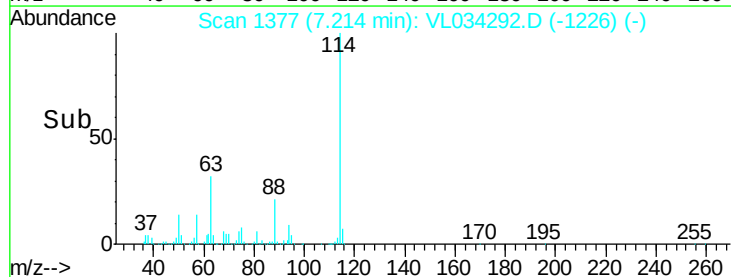
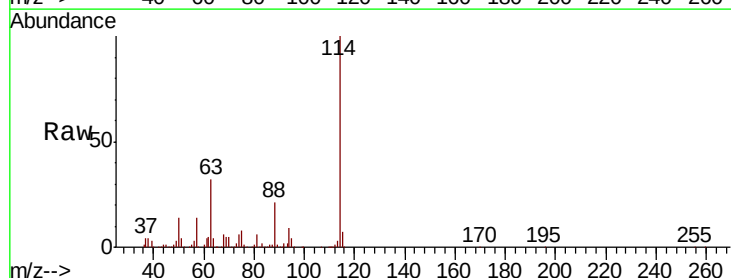
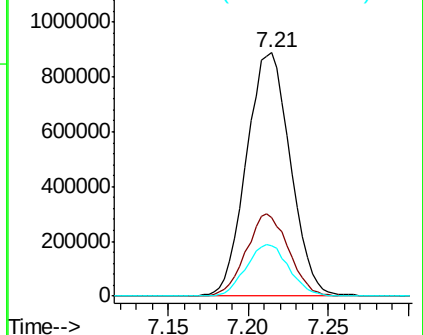
Acq: 14 Oct 2019 21:58

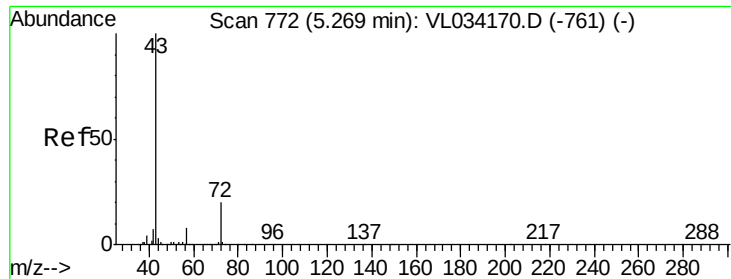
Tgt Ion	114	Resp	1674870
Ion	Ratio	Lower	Upper
114	100		
63	33.0	27.8	41.6
88	20.9	17.1	25.7

Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





#34

2-Butanone

Concen: 0.256 ppbv

RT: 5.27 min Scan# 772

Delta R.T. 0.00 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

Instrument :

MSVOA_L

ClientSampled :

QA1

Tot Ion: 43 Resp: 43772

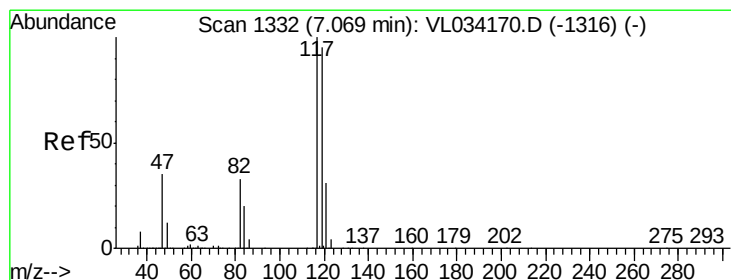
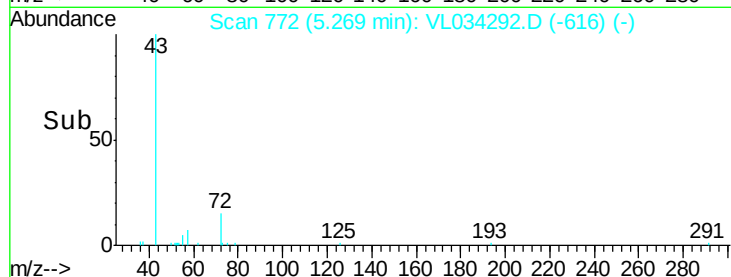
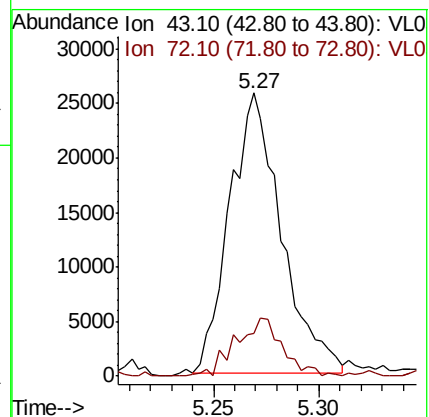
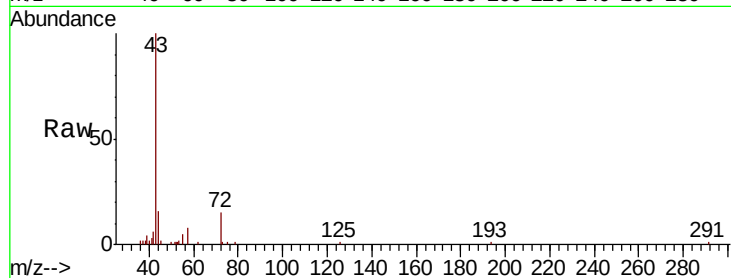
Ion Ratio Lower Upper

43 100

72 18.8 15.0 22.6

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#35

Carbon Tetrachloride

Concen: 0.056 ppbv m

RT: 7.05 min Scan# 1327

Delta R.T. -0.02 min

Lab File: VL034292.D

Acq: 14 Oct 2019 21:58

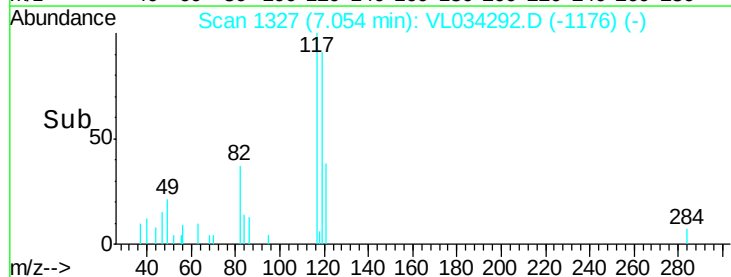
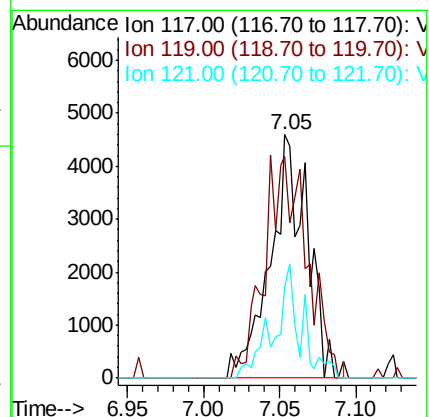
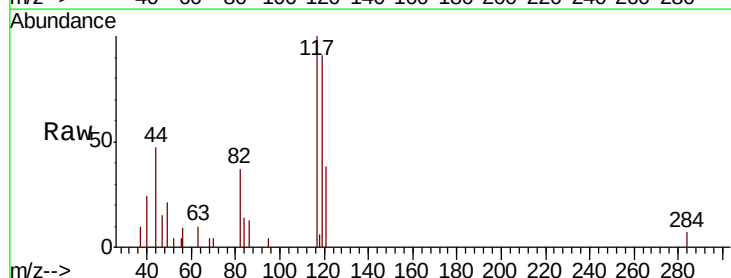
Tgt Ion: 117 Resp: 7725

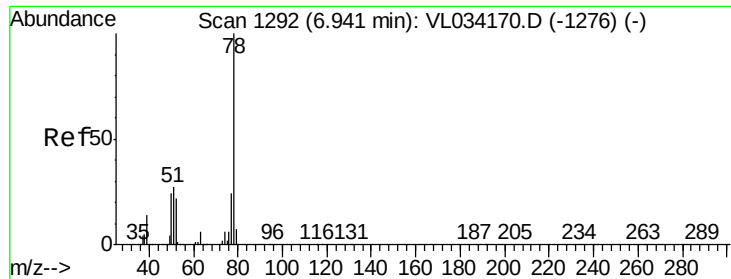
Ion Ratio Lower Upper

117 100

119 91.1 75.8 113.6

121 37.6 25.0 37.6#





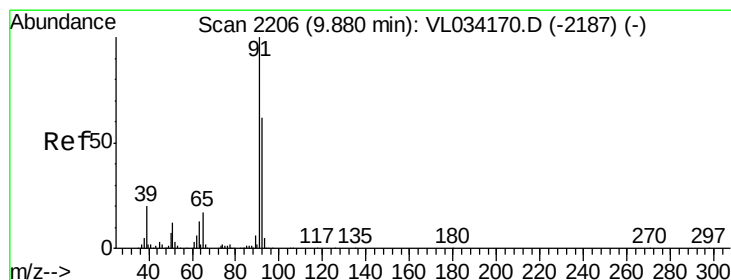
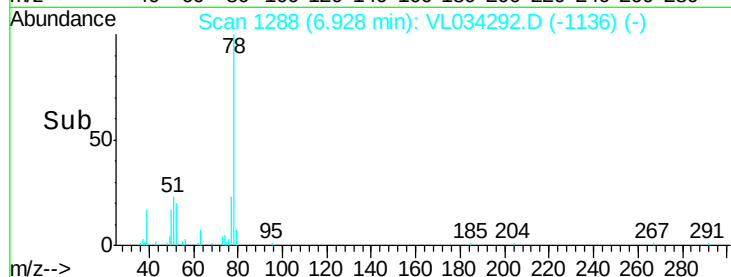
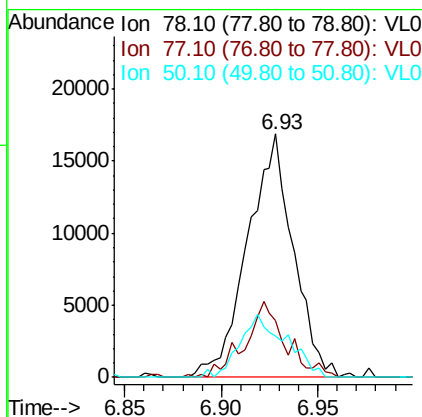
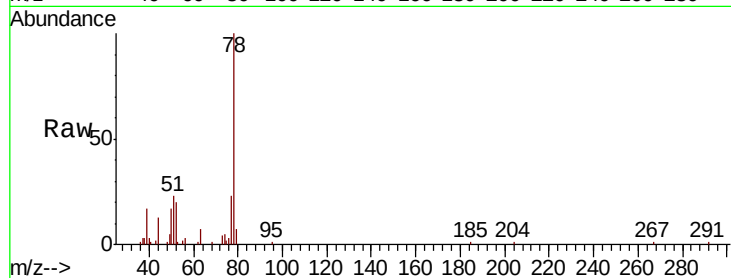
#36
Benzene
Concen: 0.150 ppbv
RT: 6.93 min Scan# 1288
Delta R.T. -0.01 min
Lab File: VL034292.D
Acq: 14 Oct 2019 21:58

Instrument :
MSVOA_L
ClientSampled :
QA1

Tot Ion	Ratio	Lower	Upper
78	100		
77	23.2	19.0	28.4
50	16.8	18.9	28.3

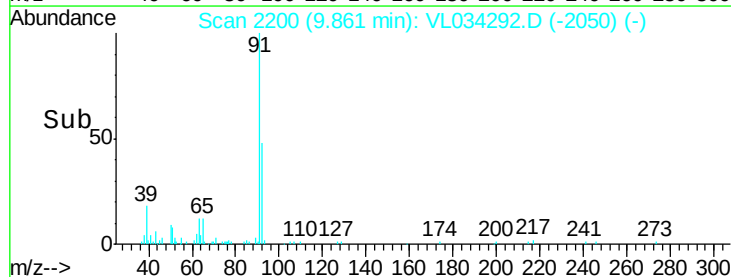
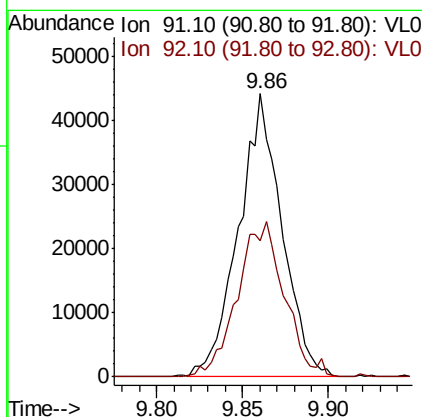
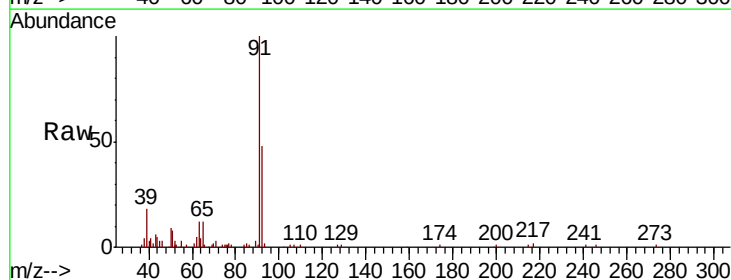
Manual Integrations
APPROVED

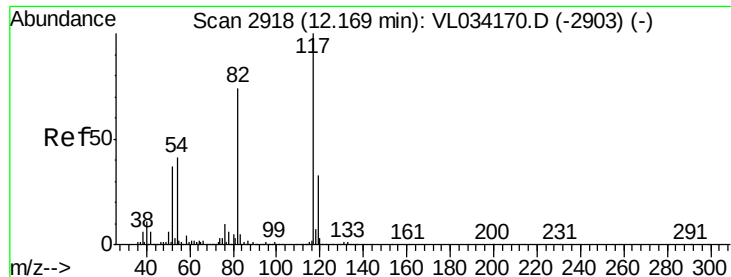
MMDadoda
10/16/2019 12:59:38 AM



#53
Toluene
Concen: 0.382 ppbv
RT: 9.86 min Scan# 2200
Delta R.T. -0.02 min
Lab File: VL034292.D
Acq: 14 Oct 2019 21:58

Tgt Ion	Ratio	Lower	Upper
91	100		
92	59.8	49.0	73.6





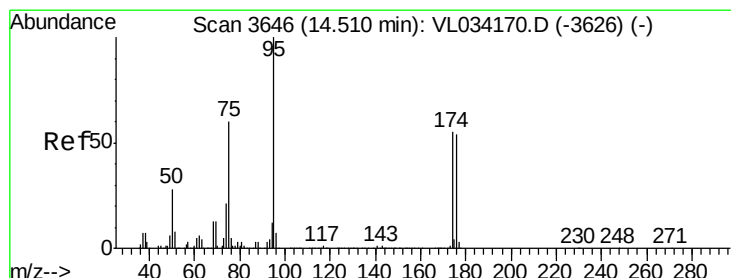
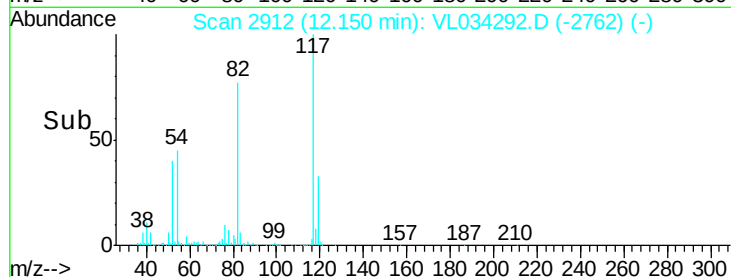
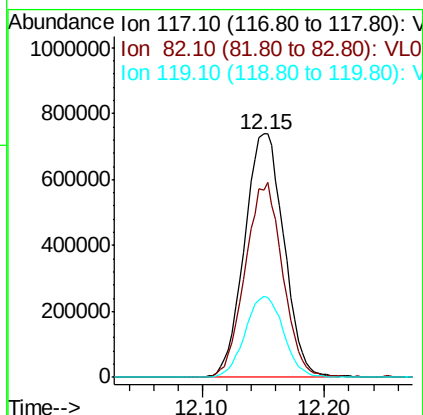
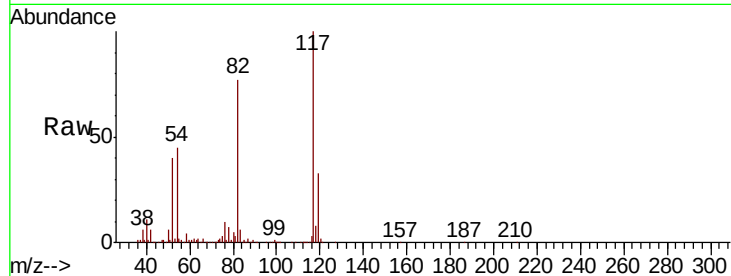
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.02 min
Lab File: VL034292.D
Acq: 14 Oct 2019 21:58

Instrument :
MSVOA_L
ClientSampled :
OA1

Tot Ion	Ratio	Lower	Upper
117	100		
82	76.4	58.2	87.4
119	32.4	23.7	35.5

Manual Integrations
APPROVED

MMDadoda
10/16/2019 12:59:38 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.283 ppbv
RT: 14.49 min Scan# 3639
Delta R.T. -0.02 min
Lab File: VL034292.D
Acq: 14 Oct 2019 21:58

Tgt Ion	Ratio	Lower	Upper
95	100		
174	55.7	45.1	67.7
175	3.9	3.3	4.9

