

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL021820\
 Data File : VL034624.D
 Acq On : 18 Feb 2020 15:01
 Operator : SY/AP
 Sample : L1532-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 L-IA

Manual Integrations
 APPROVED

MMDadoda
 2/21/2020 3:25:38 PM

Quant Time: Feb 19 06:32:40 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan 30 2020
 QLast Update : Thu Jan 30 17:16:44 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.66	49	871218	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.18	114	1801792	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.11	117	1752829	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.45	95	1506468	10.17	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.70%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	102137	0.532	ppbv	94
3) Chlorodifluoromethane	2.95	51	41427m	0.394	ppbv	
4) Chloromethane	3.10	50	29434	0.457	ppbv	96
9) Propene	2.98	41	58467m	1.426	ppbv	
11) Trichlorofluoromethane	3.92	101	42833	0.246	ppbv	91
13) Ethanol	3.57	45	409359	37.286	ppbv	98
15) Acetone	3.82	43	6178920	48.257	ppbv #	84
19) Isopropyl Alcohol	3.95	45	106976m	1.432	ppbv	
20) Methylene Chloride	4.32	84	30919	0.634	ppbv	93
26) Hexane	5.67	57	21605m	0.249	ppbv	
31) cis-1,2-Dichloroethene	5.55	61	28162	0.312	ppbv	96
34) 2-Butanone	5.25	43	50665	0.387	ppbv	99
35) Carbon Tetrachloride	7.02	117	10608m	0.062	ppbv	
36) Benzene	6.89	78	19946m	0.124	ppbv	
38) Trichloroethene	7.85	130	4951m	0.073	ppbv	
52) Tetrachloroethene	11.25	164	78381m	1.218	ppbv	
53) Toluene	9.82	91	34950m	0.199	ppbv	
59) m/p-Xylene	13.00	91	33968m	0.164	ppbv	

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

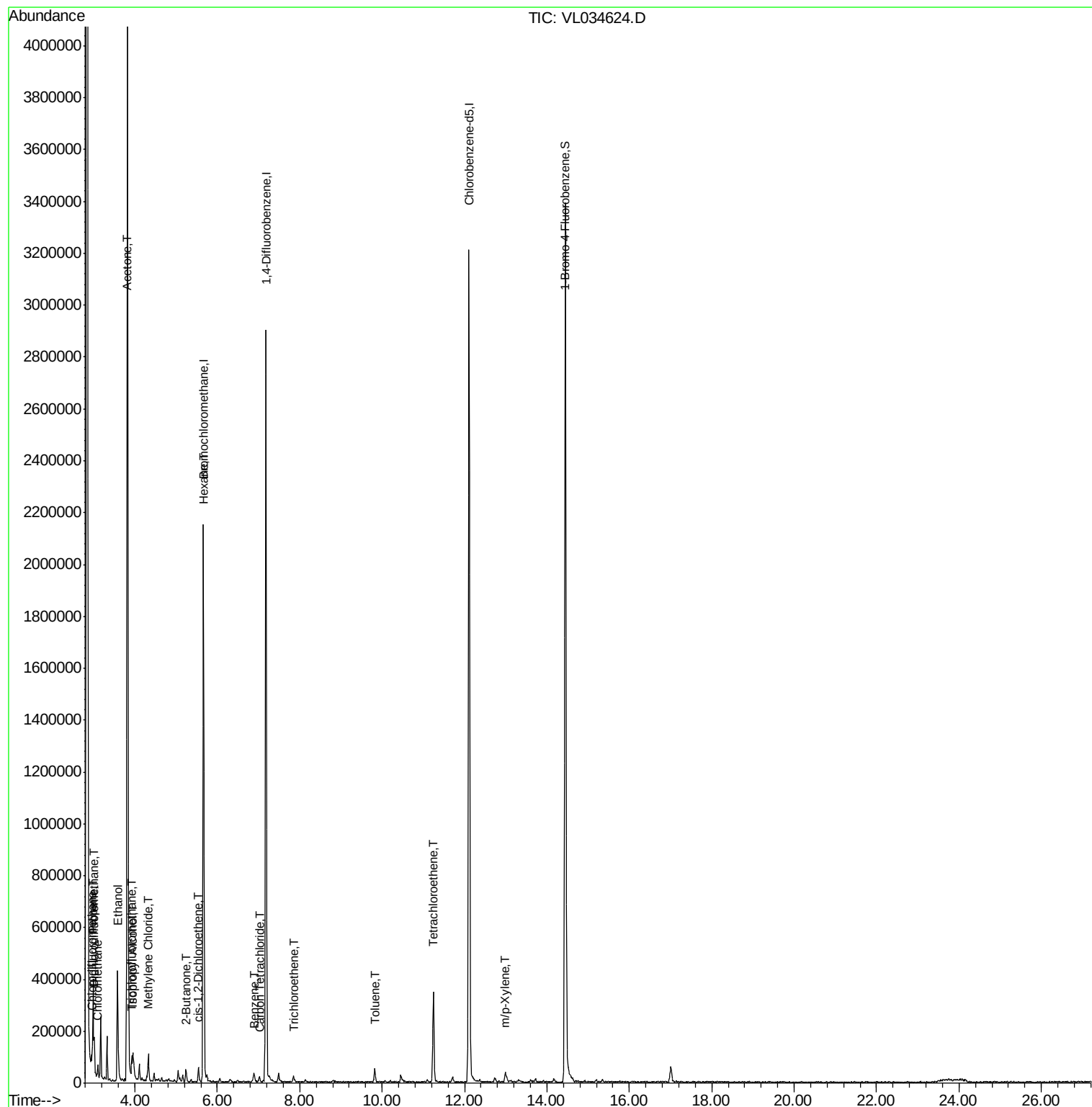
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL021820\
Data File : VL034624.D
Acq On : 18 Feb 2020 15:01
Operator : SY/AP
Sample : L1532-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

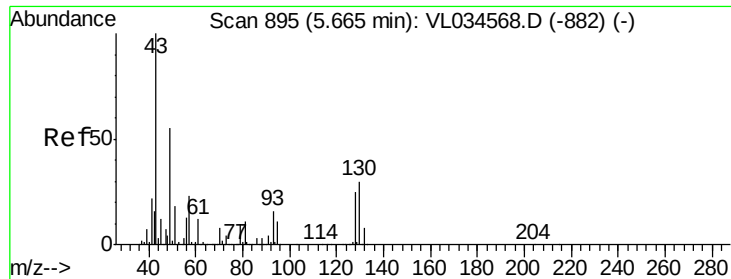
Instrument :
MSVOA_L
ClientSampleId :
L-IA

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Quant Time: Feb 19 06:32:40 2020
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Jan
QLast Update : Thu Jan 30 17:16:44 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.66 min Scan# 894

Delta R.T. -0.00 min

Lab File: VL034624.D

Acq: 18 Feb 2020 15:01

Instrument :

MSVOA_L

ClientSampleId :

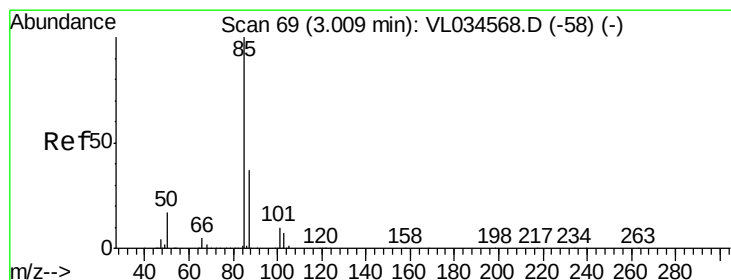
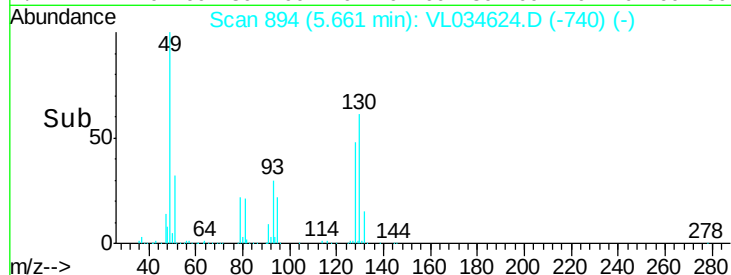
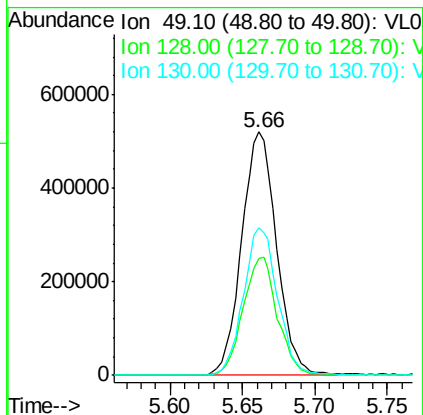
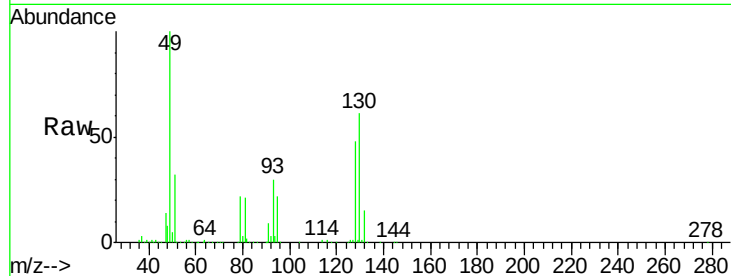
L-IA

Tot Ion: 49 Resp: 871218
Ion Ratio Lower Upper

49	100		
128	48.1	22.7	68.1
130	60.2	28.6	85.8

Manual Integrations
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#2

Dichlorodifluoromethane

Concen: 0.532 ppbv

RT: 3.01 min Scan# 69

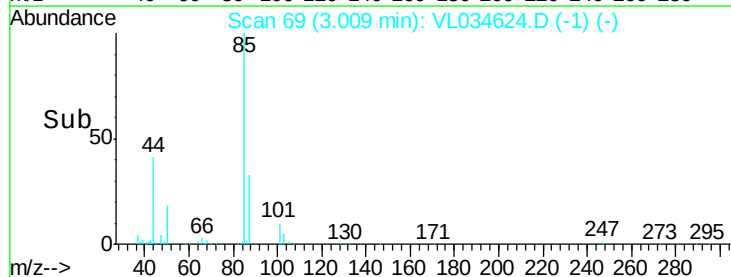
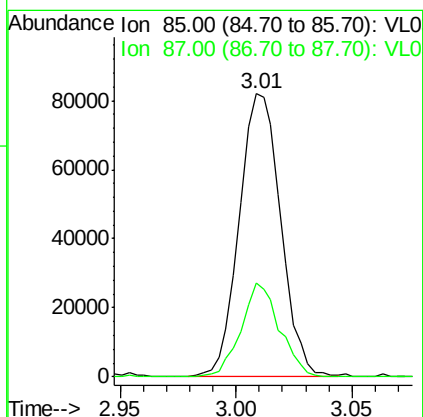
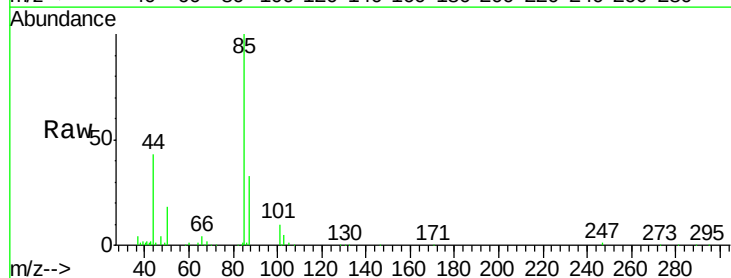
Delta R.T. -0.00 min

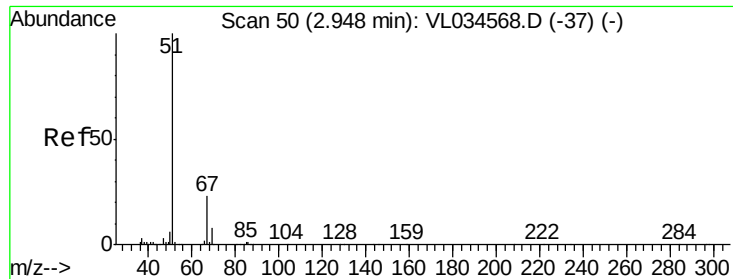
Lab File: VL034624.D

Acq: 18 Feb 2020 15:01

Tgt Ion: 85 Resp: 102137
Ion Ratio Lower Upper

85	100		
87	33.2	29.5	44.3





#3

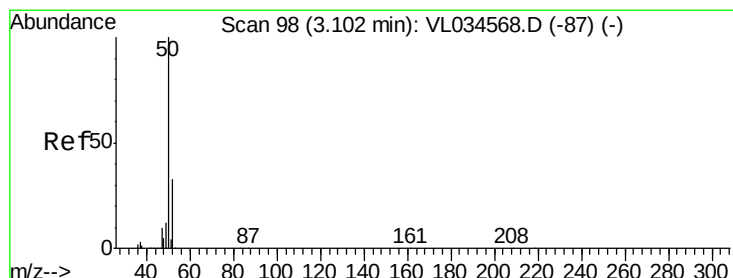
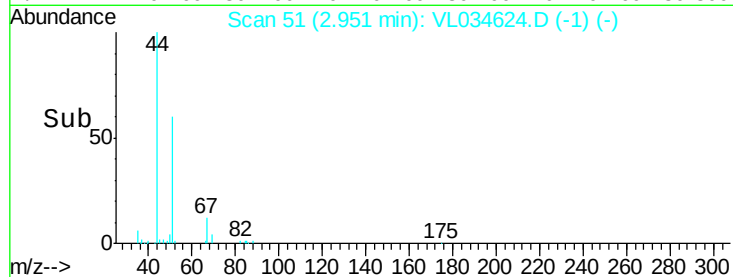
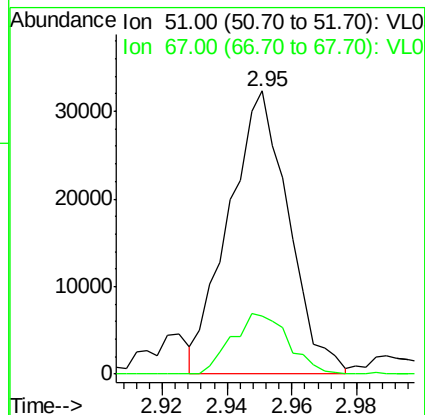
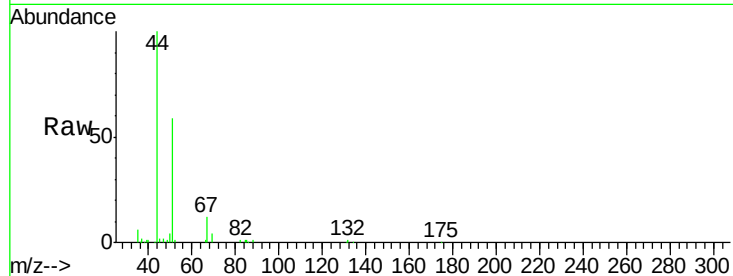
Chlorodifluoromethane
 Concen: 0.394 ppbv
 RT: 2.95 min Scan# 51
 Delta R.T. 0.00 min
 Lab File: VL034624.D
 Acq: 18 Feb 2020 15:01

Instrument :
 MSVOA_L
 ClientSampled :
 L-IA

Tot Ion	Ratio	Lower	Upper
51	100		
67	20.3	17.8	26.8

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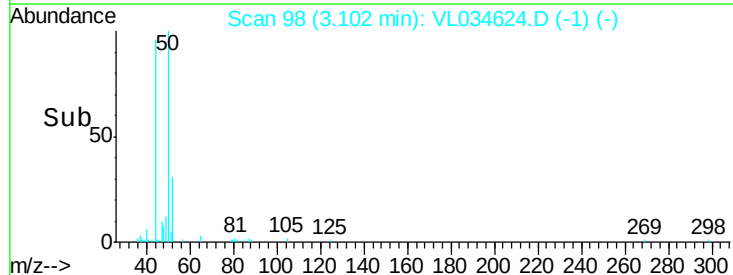
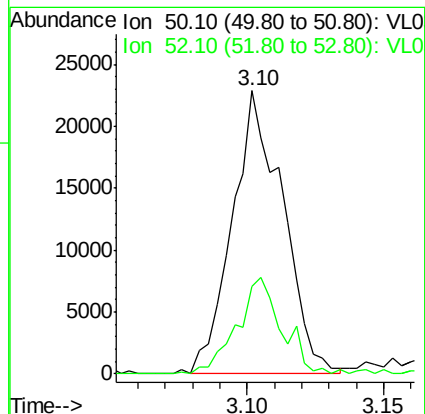
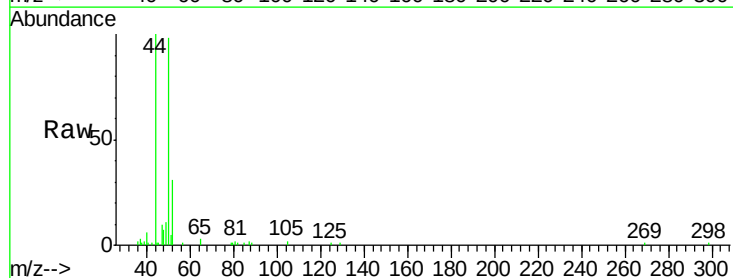
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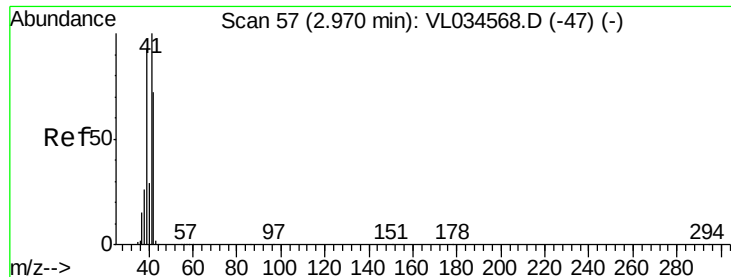


#4

Chloromethane
 Concen: 0.457 ppbv
 RT: 3.10 min Scan# 98
 Delta R.T. -0.00 min
 Lab File: VL034624.D
 Acq: 18 Feb 2020 15:01

Tgt Ion	Ratio	Lower	Upper
50	100		
52	31.0	26.6	39.8





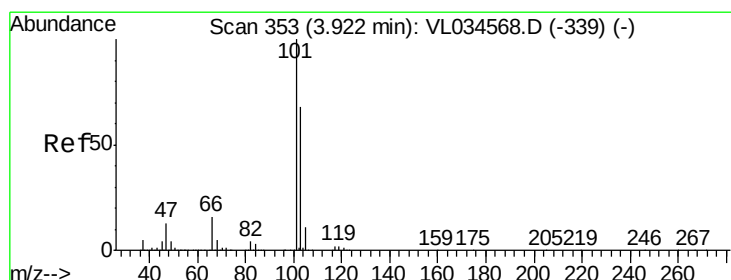
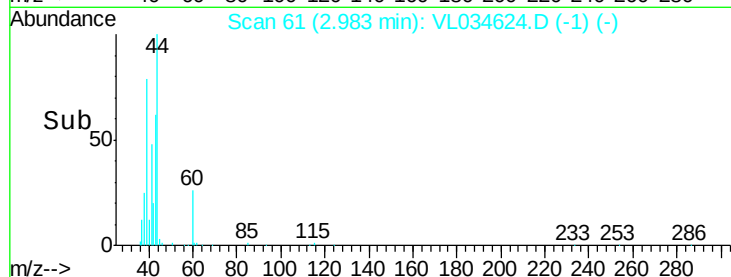
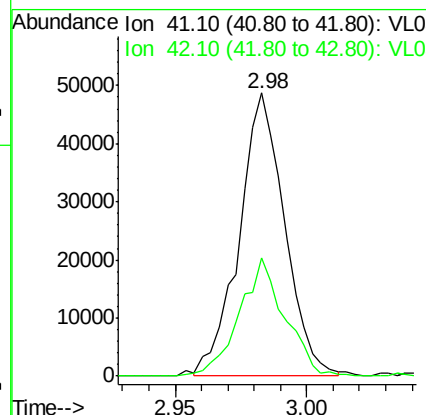
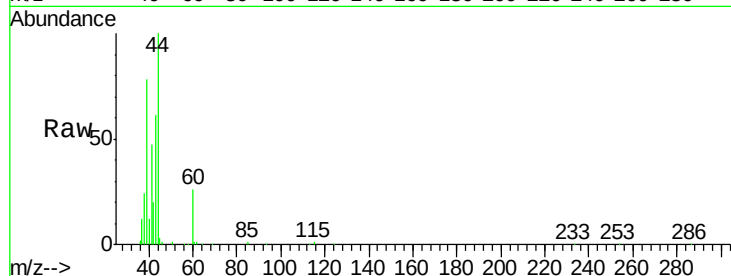
#9
 Propene
 Concen: 1.426 ppbv m
 RT: 2.98 min Scan# 61
 Delta R.T. 0.01 min
 Lab File: VL034624.D
 Acq: 18 Feb 2020 15:01

Instrument :
 MSVOA_L
 ClientSampled :
 L-IA

Tot Ion: 41 Resp: 58467
 Ion Ratio Lower Upper
 41 100
 42 2.5 57.0 85.4#

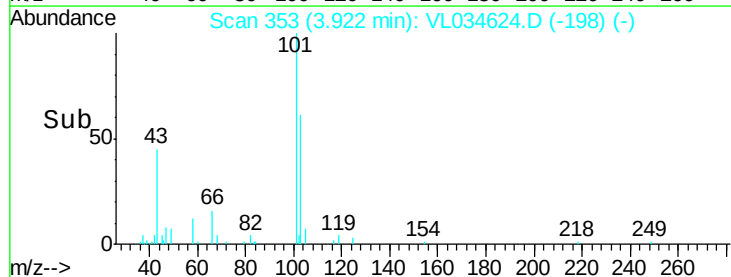
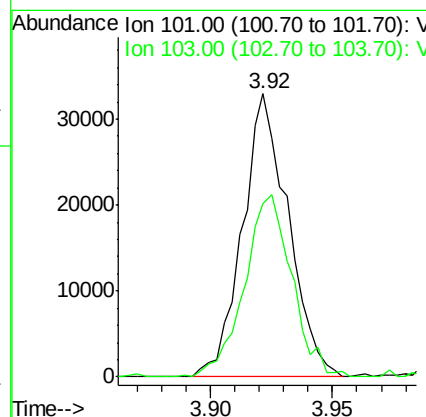
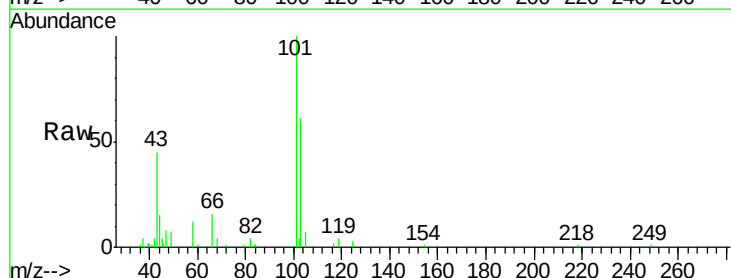
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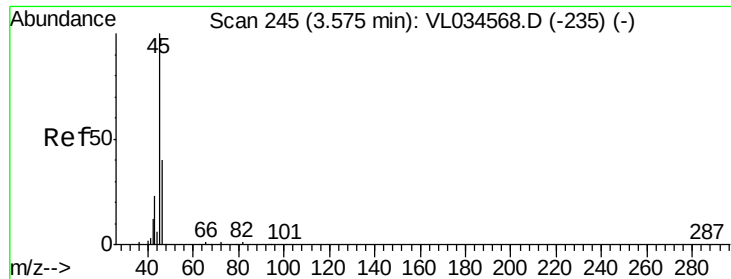
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#11
 Trichlorofluoromethane
 Concen: 0.246 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. -0.00 min
 Lab File: VL034624.D
 Acq: 18 Feb 2020 15:01

Tgt Ion: 101 Resp: 42833
 Ion Ratio Lower Upper
 101 100
 103 61.1 54.4 81.6





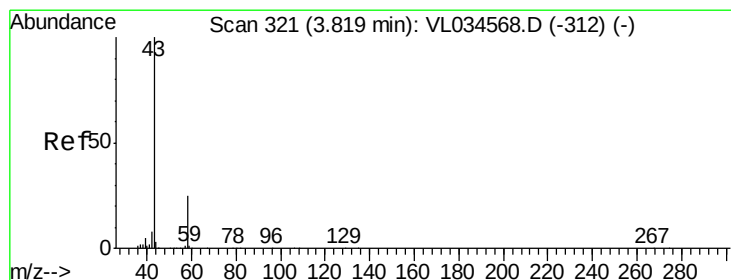
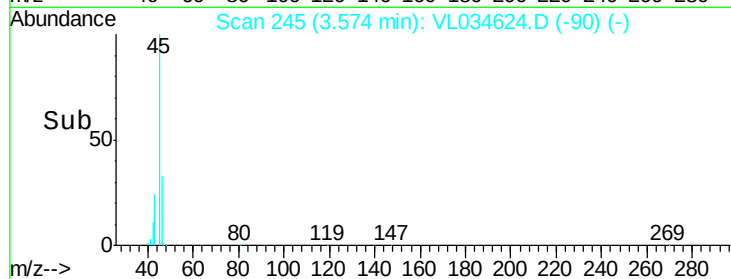
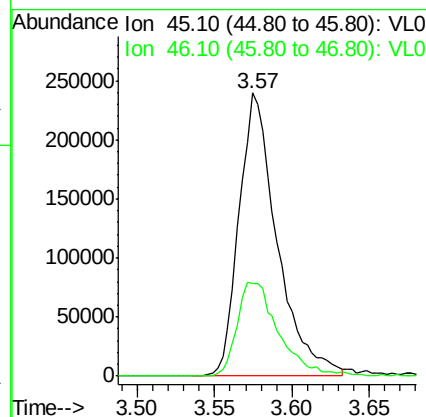
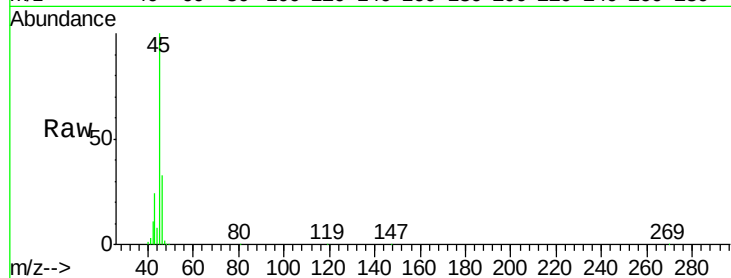
#13
Ethanol
Concen: 37.286 ppbv
RT: 3.57 min Scan# 245
Delta R.T. -0.00 min
Lab File: VL034624.D
Acq: 18 Feb 2020 15:01

Instrument :
MSVOA_L
ClientSampled :
L-IA

Tot Ion	Ratio	Lower	Upper
45	100		
46	36.1	14.8	59.2

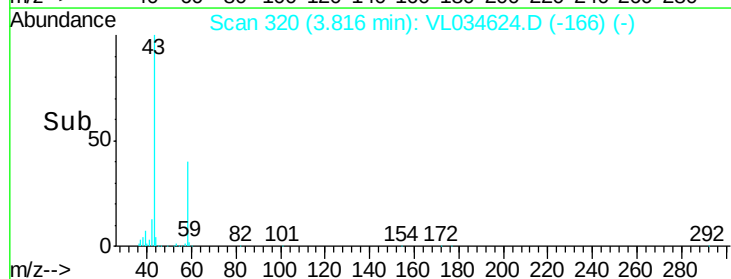
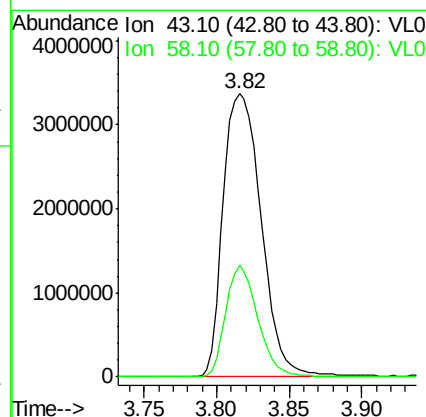
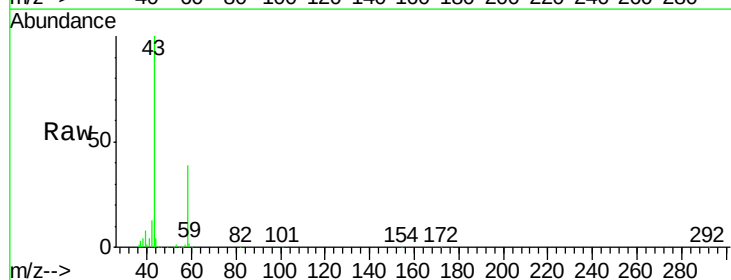
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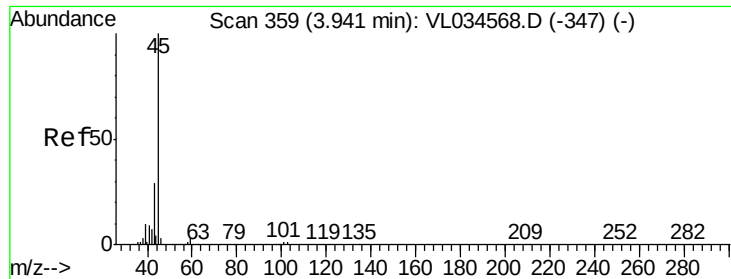
MMDadoda
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#15
Acetone
Concen: 48.257 ppbv
RT: 3.82 min Scan# 320
Delta R.T. -0.00 min
Lab File: VL034624.D
Acq: 18 Feb 2020 15:01

Tgt Ion	Ratio	Lower	Upper
43	100		
58	33.3	20.3	30.5#





#19

Isopropyl Alcohol

Concen: 1.432 ppbv m

RT: 3.95 min Scan# 362

Delta R.T. 0.01 min

Lab File: VL034624.D

Acq: 18 Feb 2020 15:01

Instrument :

MSVOA_L

ClientSampled :

L-IA

Tot Ion: 45 Resp: 106976

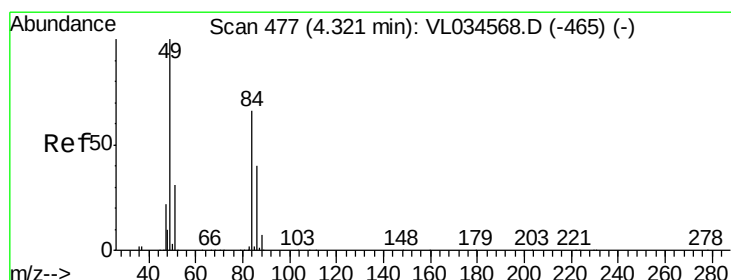
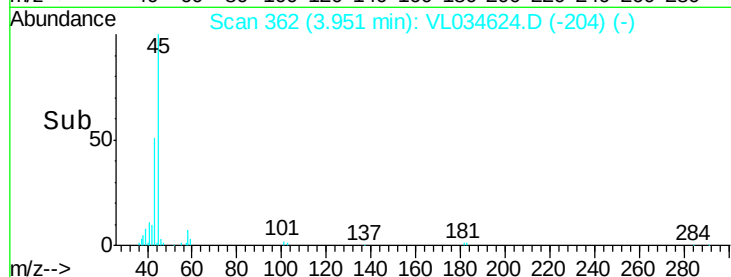
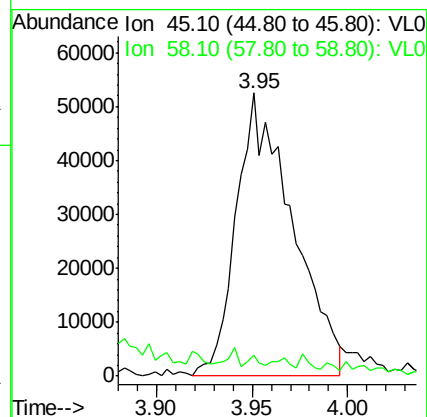
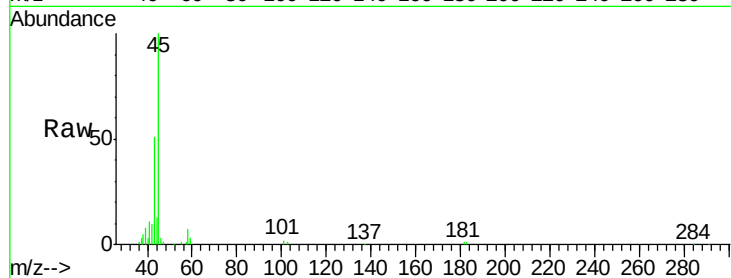
Ion Ratio Lower Upper

45 100

58 0.0 1.7 2.5#

Manual Integrations
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#20

Methylene Chloride

Concen: 0.634 ppbv

RT: 4.32 min Scan# 478

Delta R.T. 0.00 min

Lab File: VL034624.D

Acq: 18 Feb 2020 15:01

Tgt Ion: 84 Resp: 30919

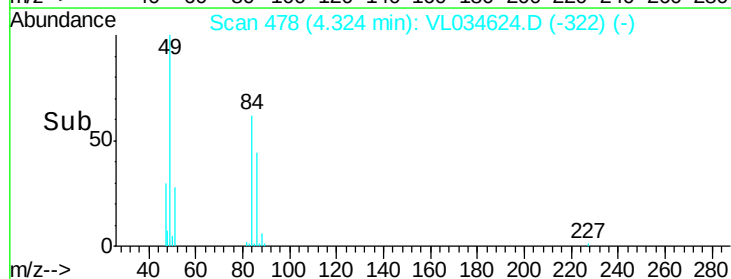
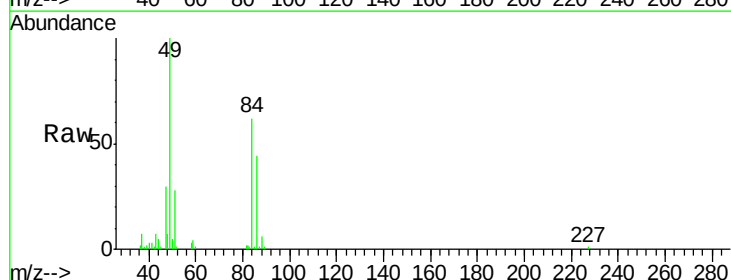
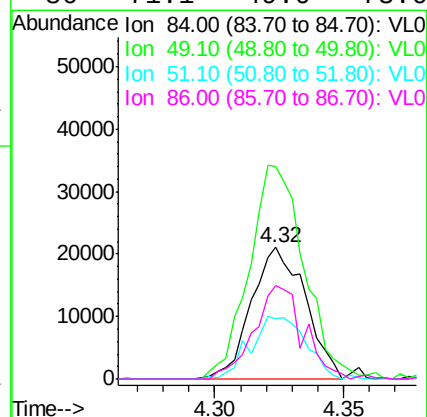
Ion Ratio Lower Upper

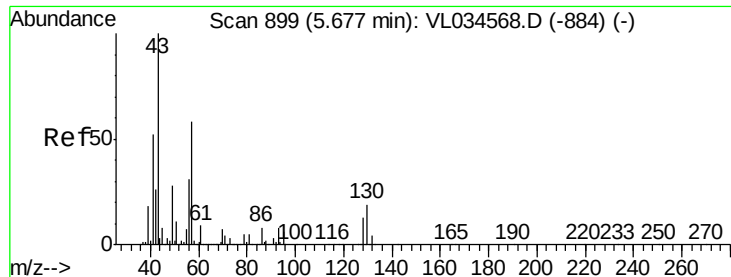
84 100

49 161.3 122.4 183.6

51 47.3 38.6 57.8

86 71.1 49.0 73.6





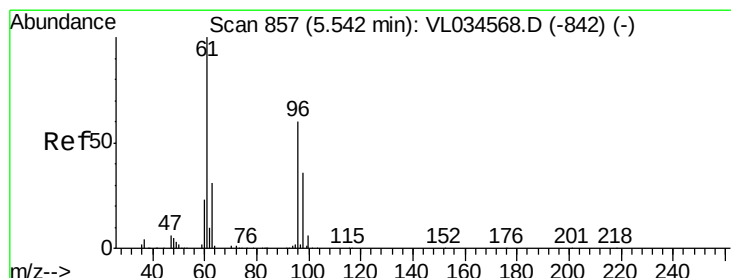
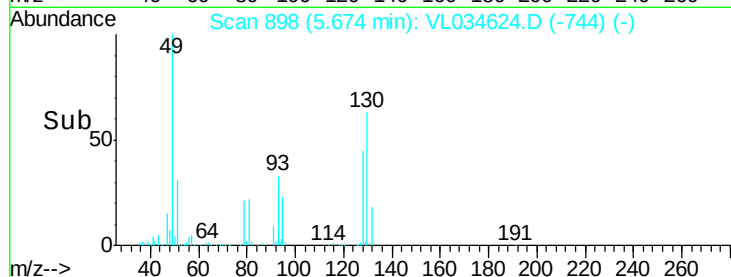
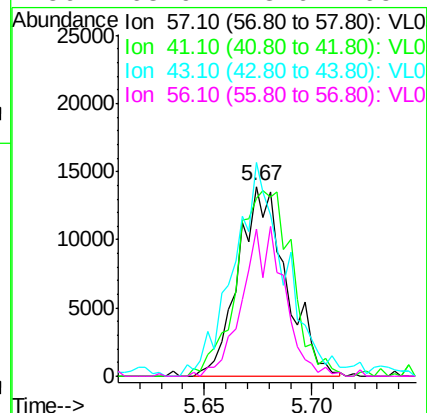
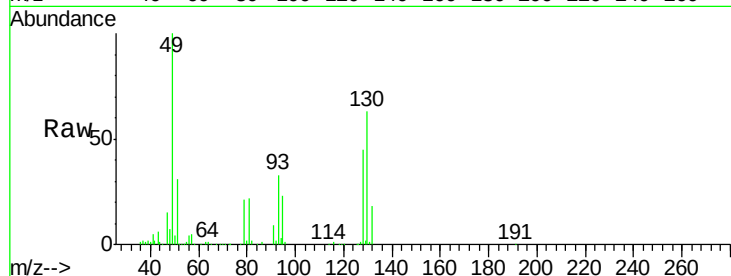
#26
Hexane
Concen: 0.249 ppbv m
RT: 5.67 min Scan# 898
Delta R.T. -0.00 min
Lab File: VL034624.D
Acq: 18 Feb 2020 15:01

Instrument :
MSVOA_L
ClientSampled :
L-IA

Tot Ion	57	Resp	21605
Ion	Ratio	Lower	Upper
57	100		
41	113.8	76.2	114.2
43	120.9	189.9	284.9#
56	68.9	43.6	65.4#

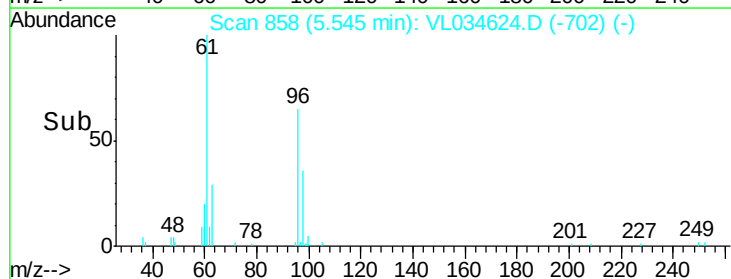
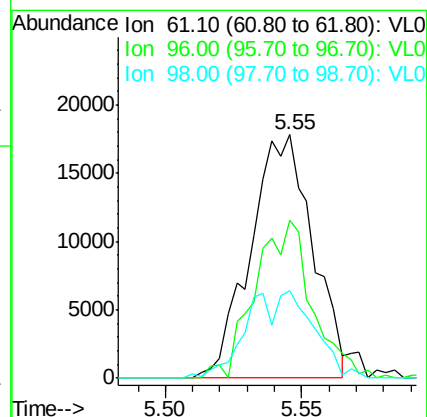
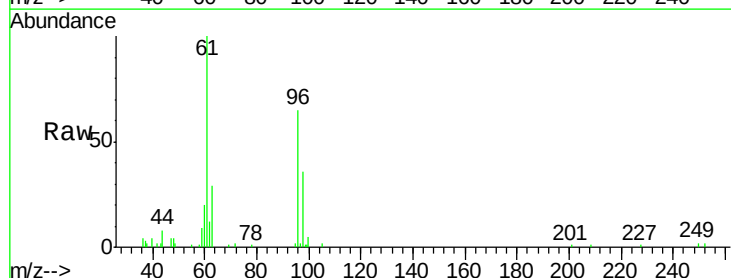
Manual Integrations
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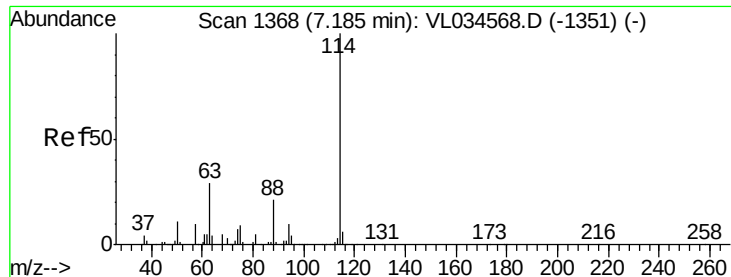
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#31
cis-1,2-Dichloroethene
Concen: 0.312 ppbv
RT: 5.55 min Scan# 858
Delta R.T. 0.00 min
Lab File: VL034624.D
Acq: 18 Feb 2020 15:01

Tgt Ion	61	Resp	28162
Ion	Ratio	Lower	Upper
61	100		
96	64.6	48.0	72.0
98	36.0	28.6	43.0





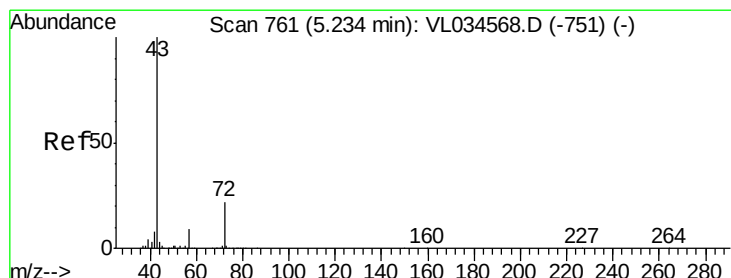
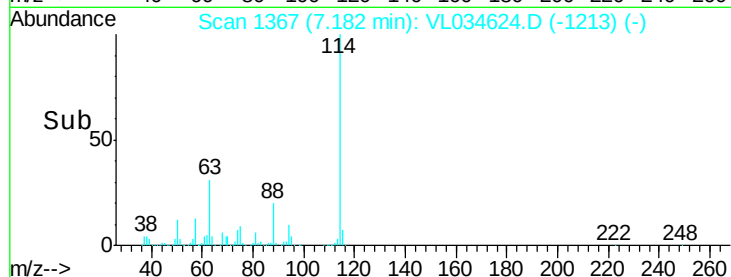
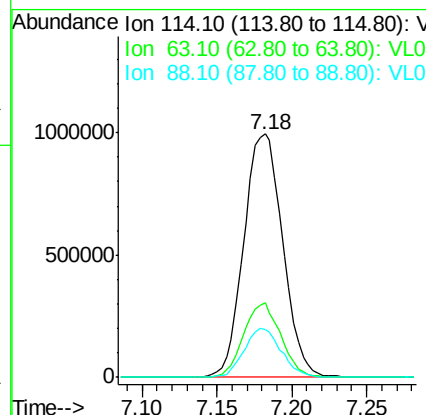
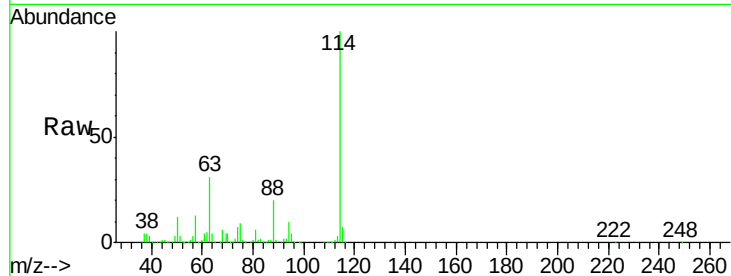
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.18 min Scan# 1367
 Delta R.T. -0.00 min
 Lab File: VL034624.D
 Acq: 18 Feb 2020 15:01

Instrument :
 MSVOA_L
 ClientSampled :
 L-IA

Tot Ion	Ratio	Lower	Upper
114	100		
63	29.4	24.1	36.1
88	19.3	15.9	23.9

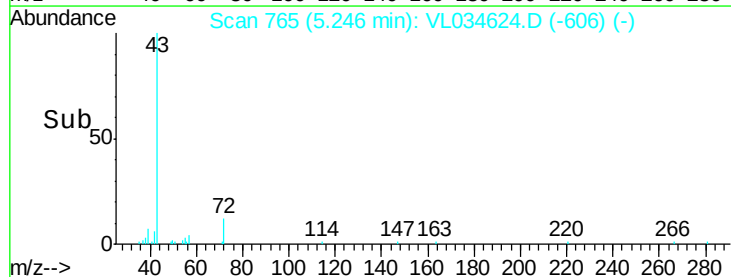
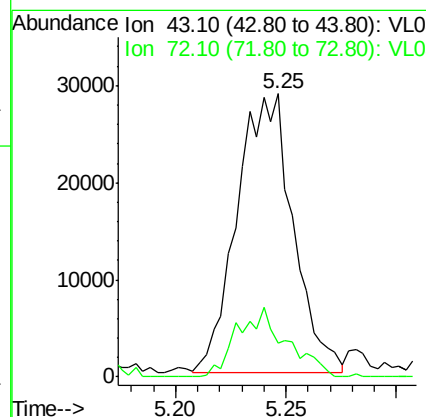
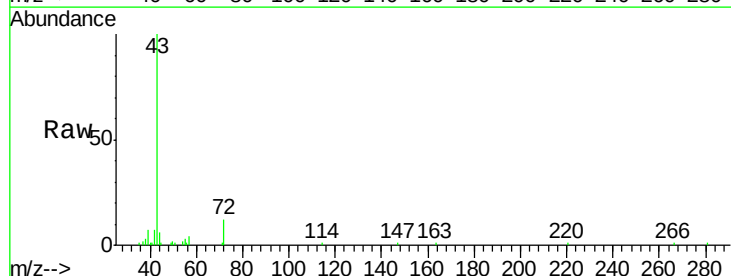
Manual Integrations
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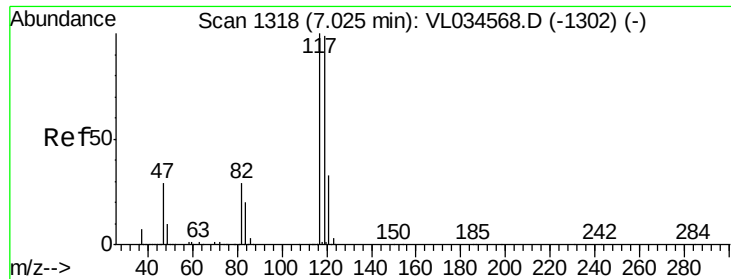
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#34
 2-Butanone
 Concen: 0.387 ppbv
 RT: 5.25 min Scan# 765
 Delta R.T. 0.01 min
 Lab File: VL034624.D
 Acq: 18 Feb 2020 15:01

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.9	17.2	25.8





#35

Carbon Tetrachloride

Concen: 0.062 ppbv m

RT: 7.02 min Scan# 1316

Delta R.T. -0.01 min

Lab File: VL034624.D

Acq: 18 Feb 2020 15:01

Instrument :

MSVOA_L

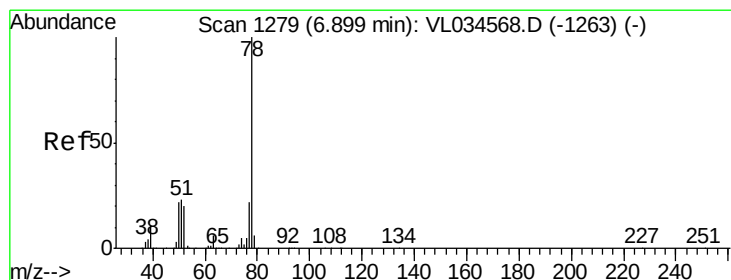
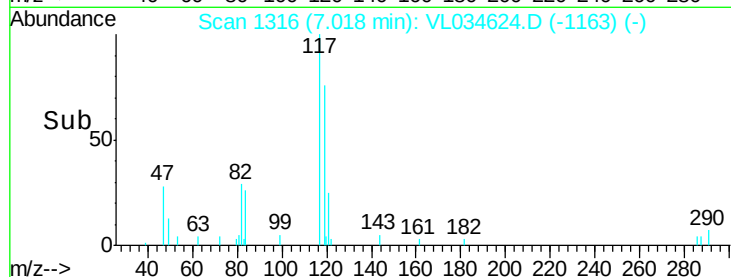
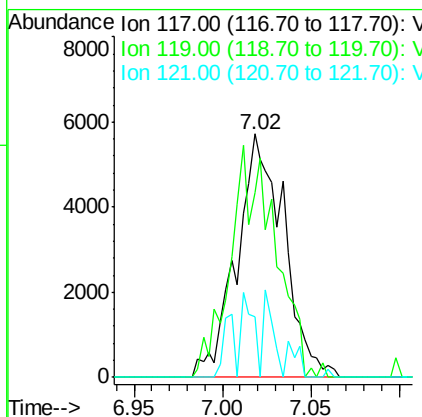
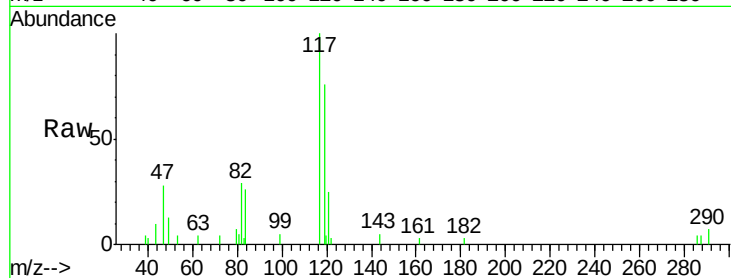
ClientSampleId :

L-IA

Tot Ion	Ratio	Lower	Upper
117	100		
119	75.8	79.5	119.3#
121	25.0	26.2	39.2#

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#36

Benzene

Concen: 0.124 ppbv m

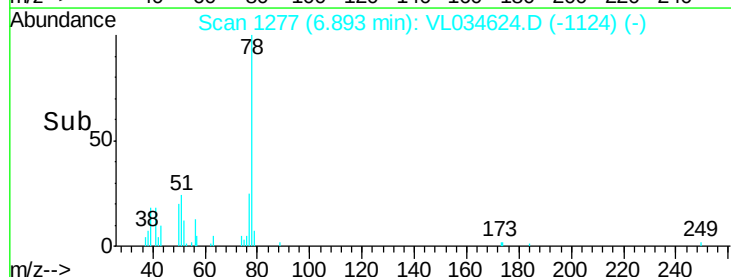
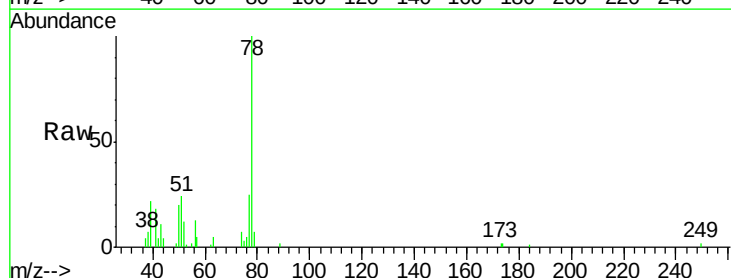
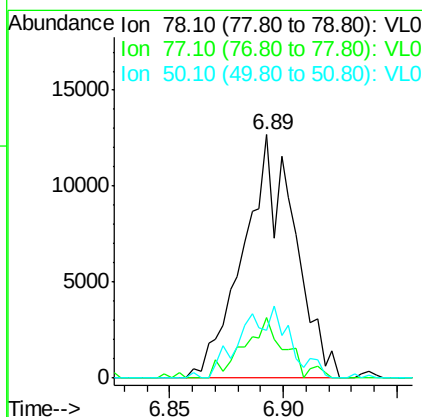
RT: 6.89 min Scan# 1277

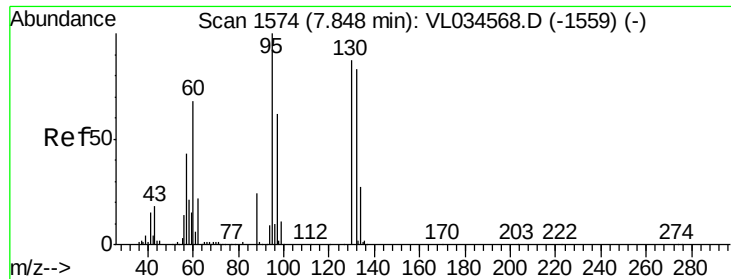
Delta R.T. -0.01 min

Lab File: VL034624.D

Acq: 18 Feb 2020 15:01

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.7	17.3	25.9
50	19.8	17.4	26.2





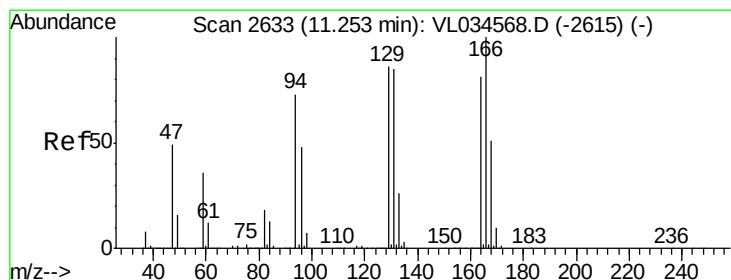
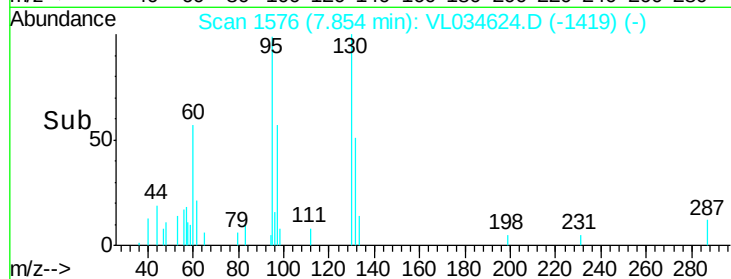
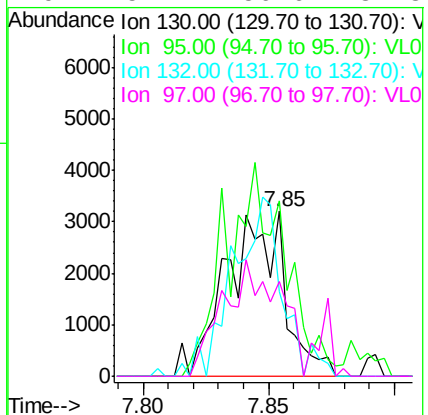
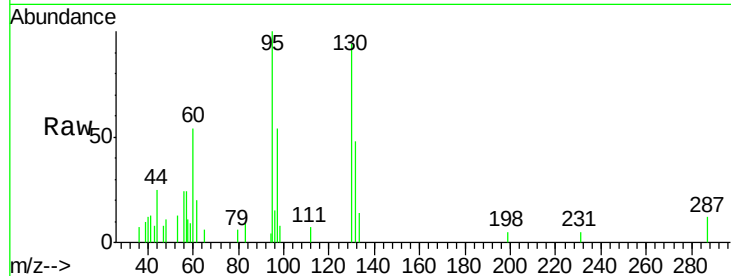
#38
 Trichloroethene
 Concen: 0.073 ppbv m
 RT: 7.85 min Scan# 1576
 Delta R.T. 0.01 min
 Lab File: VL034624.D
 Acq: 18 Feb 2020 15:01

Instrument :
 MSVOA_L
 ClientSampled :
 L-IA

Tot Ion	Ratio	Lower	Upper
130	100		
95	106.0	91.6	137.4
132	51.1	76.1	114.1#
97	57.1	56.6	84.8

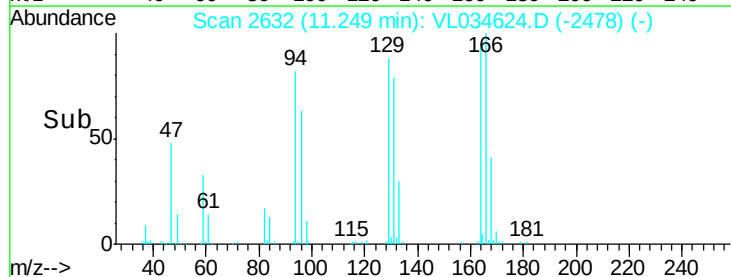
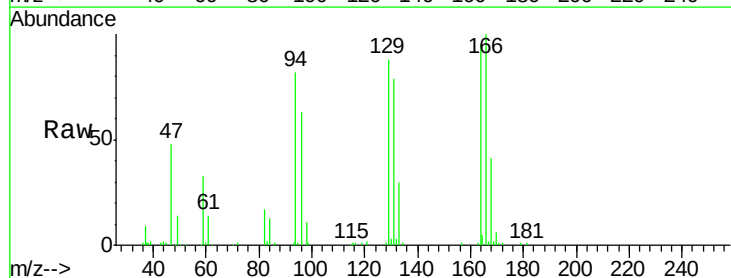
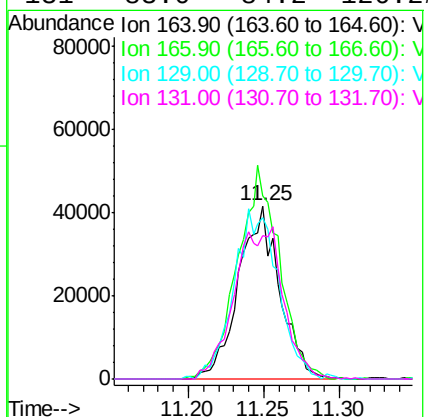
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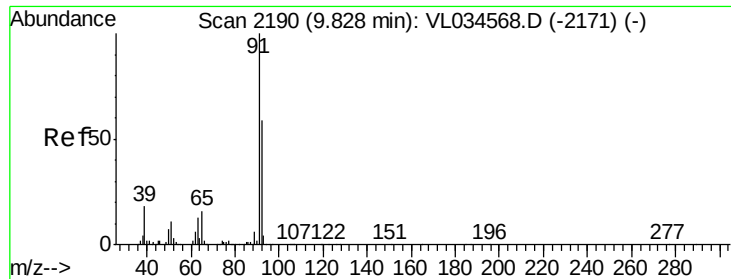
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#52
 Tetrachloroethene
 Concen: 1.218 ppbv m
 RT: 11.25 min Scan# 2632
 Delta R.T. -0.00 min
 Lab File: VL034624.D
 Acq: 18 Feb 2020 15:01

Tgt Ion	Ratio	Lower	Upper
164	100		
166	105.5	99.0	148.4
129	93.1	85.3	127.9
131	83.0	84.2	126.2#





#53

Toluene

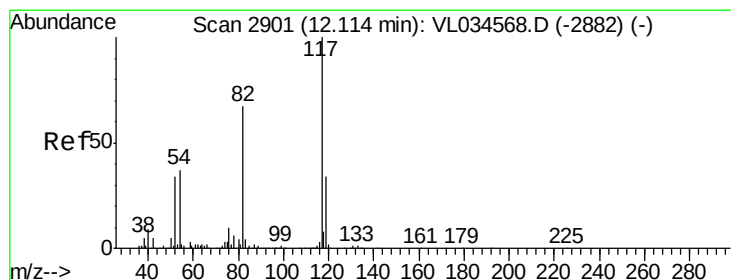
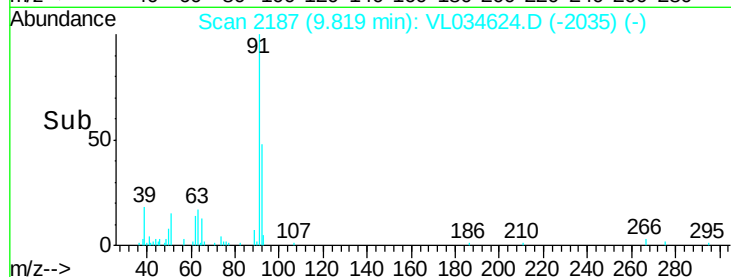
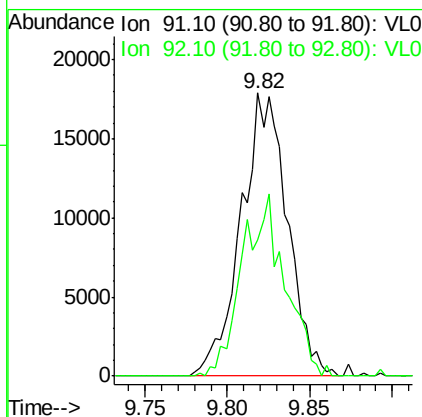
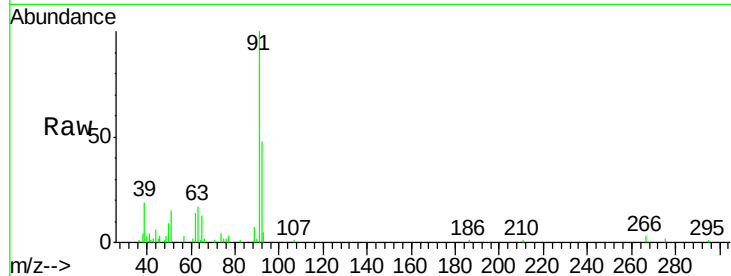
Concen: 0.199 ppbv m
 RT: 9.82 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VL034624.D
 Acq: 18 Feb 2020 15:01

Instrument :
 MSVOA_L
 ClientSampled :
 L-IA

Tot Ion: 91 Resp: 34950
 Ion Ratio Lower Upper
 91 100
 92 59.7 48.2 72.2

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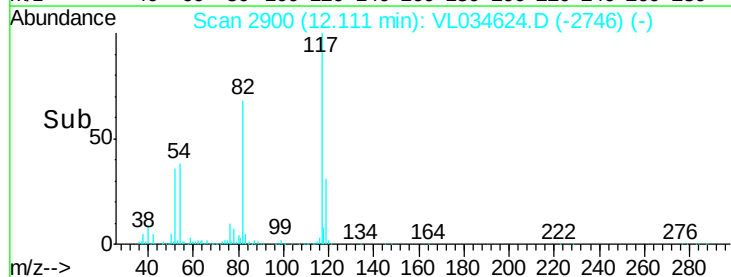
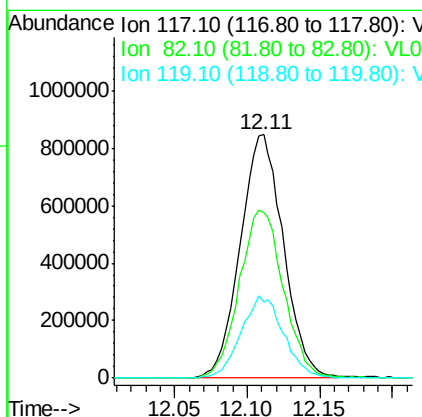
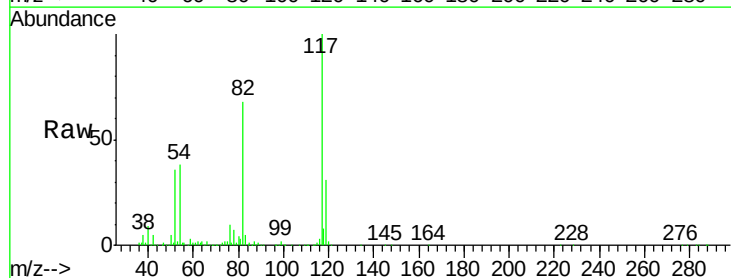


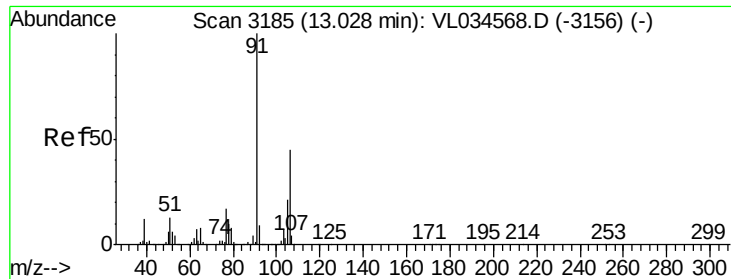
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
 RT: 12.11 min Scan# 2900
 Delta R.T. -0.00 min
 Lab File: VL034624.D
 Acq: 18 Feb 2020 15:01

Tgt Ion: 117 Resp: 1752829
 Ion Ratio Lower Upper
 117 100
 82 71.2 54.2 81.4
 119 33.3 26.1 39.1





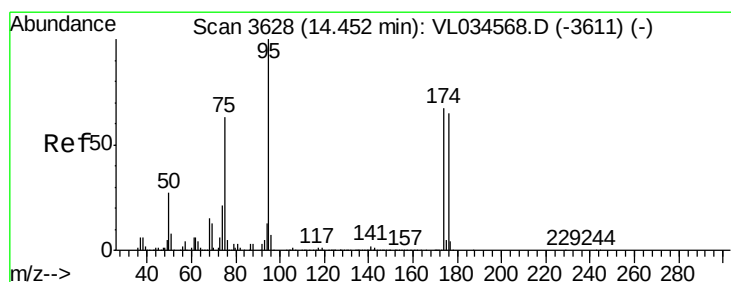
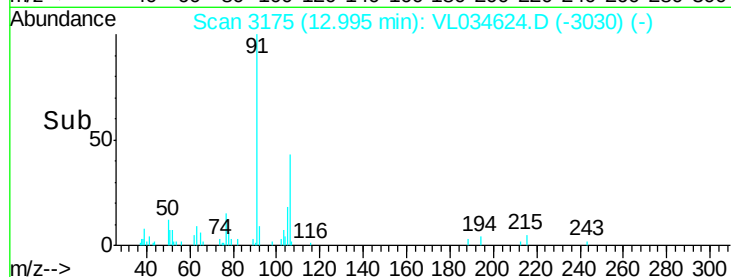
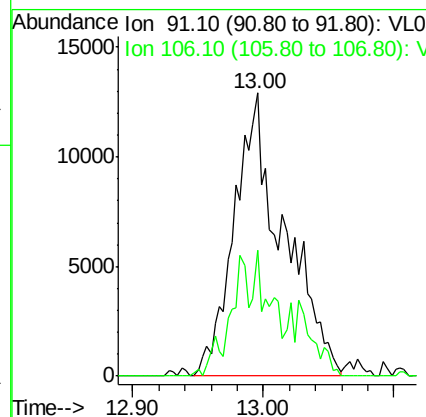
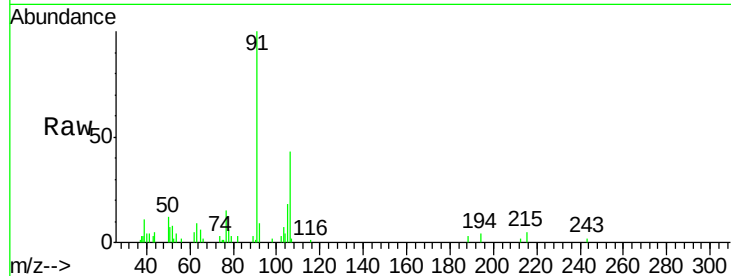
#59
m/p-Xylene
Concen: 0.164 ppbv m
RT: 13.00 min Scan# 3175
Delta R.T. -0.03 min
Lab File: VL034624.D
Acq: 18 Feb 2020 15:01

Instrument :
MSVOA_L
ClientSampled :
L-IA

Tot Ion: 91 Resp: 33968
Ion Ratio Lower Upper
91 100
106 0.0 35.3 52.9#

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.169 ppbv
RT: 14.45 min Scan# 3627
Delta R.T. -0.00 min
Lab File: VL034624.D
Acq: 18 Feb 2020 15:01

Tgt Ion: 95 Resp: 1506468
Ion Ratio Lower Upper
95 100
174 66.1 52.3 78.5
175 4.6 3.8 5.6

