

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020420\
 Data File : VL034587.D
 Acq On : 4 Feb 2020 19:53
 Operator : SY/AP
 Sample : L1357-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AA-1

Manual Integrations
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 2/5/2020 2:50:41 PM

Quant Time: Feb 05 06:52:42 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL013020AIR.M
 Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Jan 30
 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	885923	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1835377	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	1815492	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.46	95	1594492	10.39	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	95298	0.488	ppbv	98
3) Chlorodifluoromethane	2.96	51	56553m	0.528	ppbv	
4) Chloromethane	3.11	50	29541	0.451	ppbv	95
9) Propene	2.99	41	36996m	0.888	ppbv	
11) Trichlorofluoromethane	3.93	101	46330	0.261	ppbv #	79
13) Ethanol	3.58	45	124754	11.174	ppbv	100
15) Acetone	3.83	43	268334	2.061	ppbv	91
19) Isopropyl Alcohol	3.96	45	62202	0.819	ppbv #	96
20) Methylene Chloride	4.33	84	35008m	0.706	ppbv	
26) Hexane	5.68	57	35428m	0.401	ppbv	
34) 2-Butanone	5.25	43	22637m	0.170	ppbv	
35) Carbon Tetrachloride	7.02	117	10772m	0.061	ppbv	
36) Benzene	6.90	78	36013	0.221	ppbv #	90
52) Tetrachloroethene	11.26	164	7438m	0.113	ppbv	
53) Toluene	9.84	91	81794m	0.456	ppbv	
59) m/p-Xylene	13.00	91	28030m	0.131	ppbv	

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

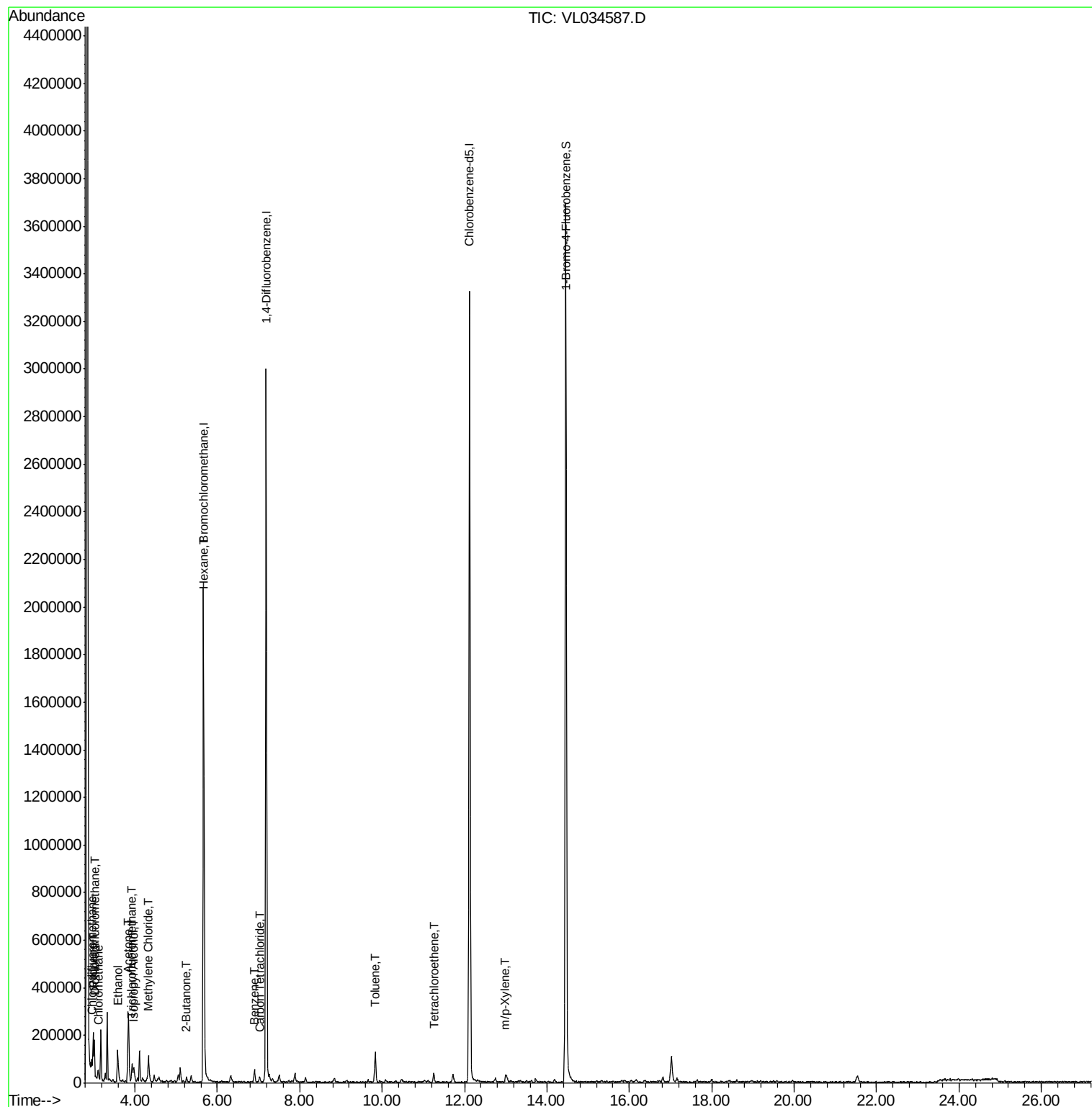
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL020420\
Data File : VL034587.D
Acq On : 4 Feb 2020 19:53
Operator : SY/AP
Sample : L1357-02
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

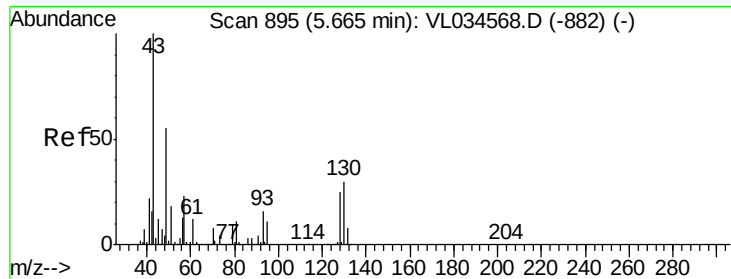
Instrument :
MSVOA_L
ClientSampleId :
AA-1

Manual Integrations
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Quant Time: Feb 05 06:52:42 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





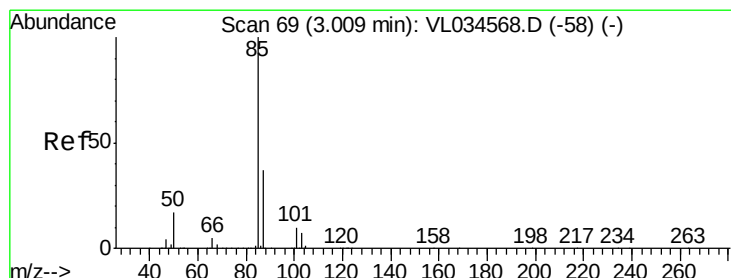
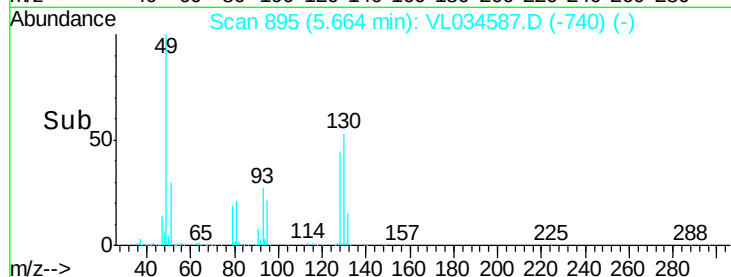
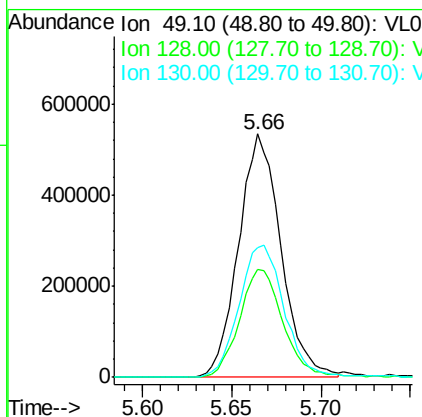
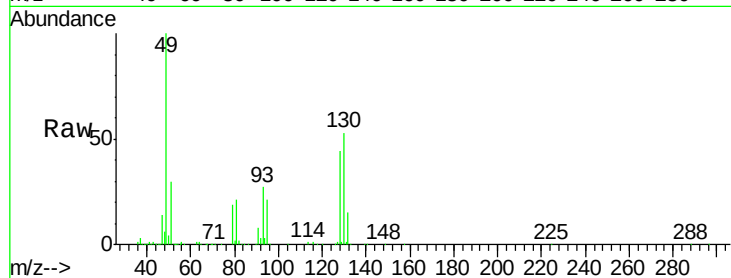
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.66 min Scan# 895
 Delta R.T. -0.00 min
 Lab File: VL034587.D
 Acq: 4 Feb 2020 19:53

Instrument :
 MSVOA_L
 ClientSampled :
 AA-1

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.8	22.7	68.1
130	58.0	28.6	85.8

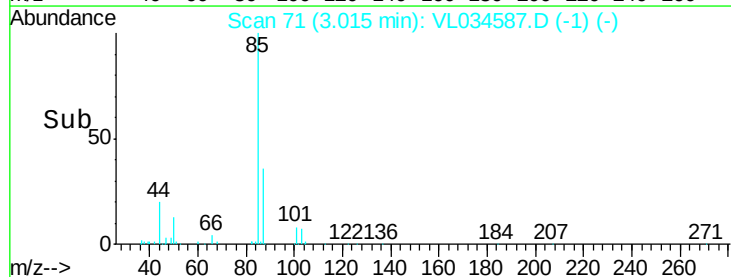
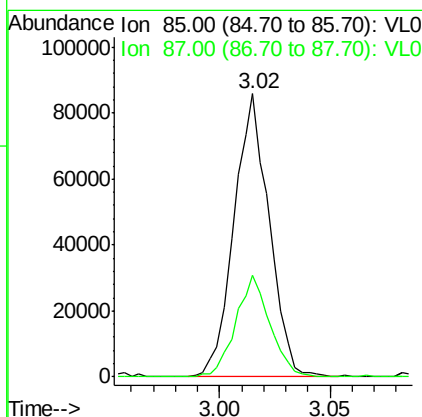
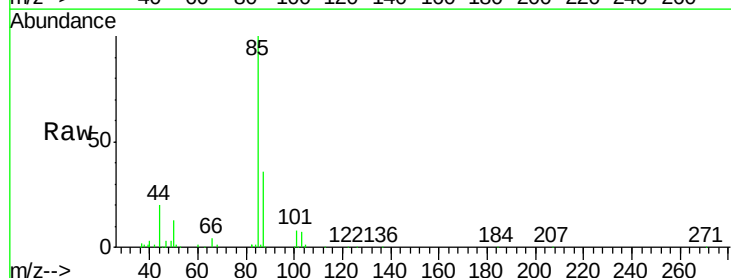
Manual Integrations
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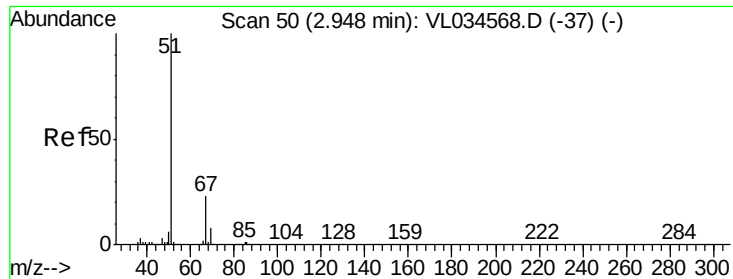
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#2
 Dichlorodifluoromethane
 Concen: 0.488 ppbv
 RT: 3.02 min Scan# 71
 Delta R.T. 0.01 min
 Lab File: VL034587.D
 Acq: 4 Feb 2020 19:53

Tgt Ion	Ratio	Lower	Upper
85	100		
87	35.8	29.5	44.3





#3

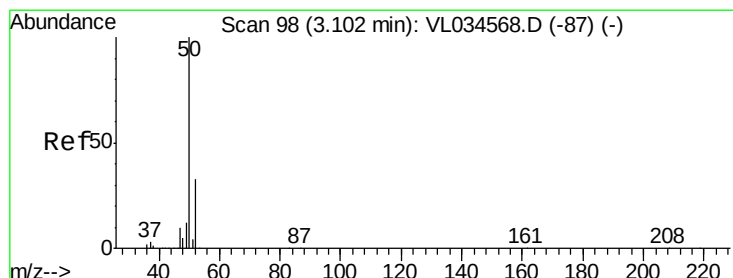
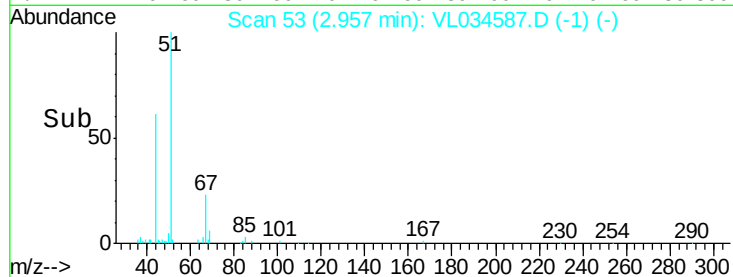
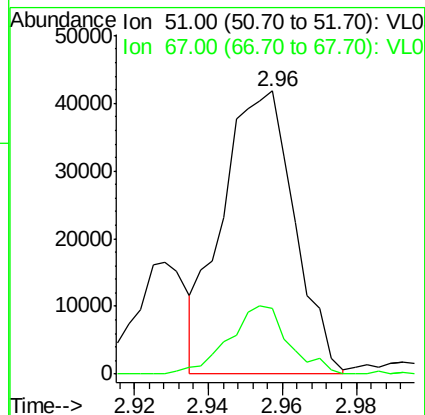
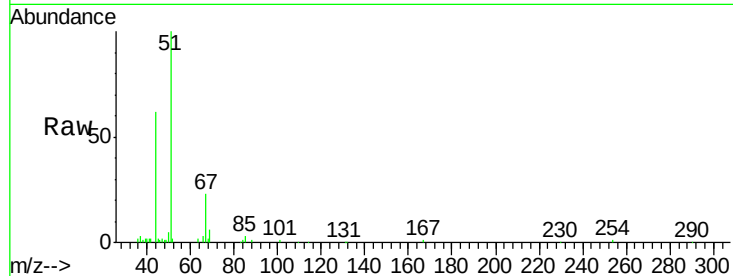
Chlorodifluoromethane
Concen: 0.528 ppbv
RT: 2.96 min Scan# 53
Delta R.T. 0.01 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion	Ratio	Lower	Upper
51	100		
67	20.1	17.8	26.8

Manual Integrations
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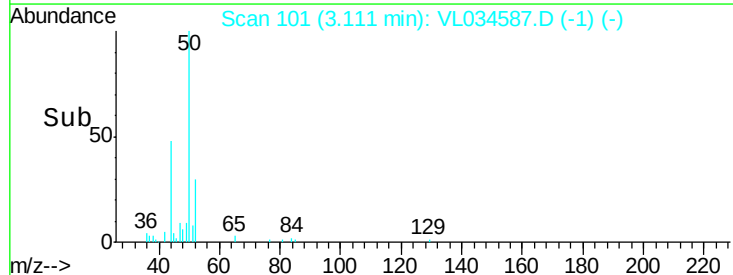
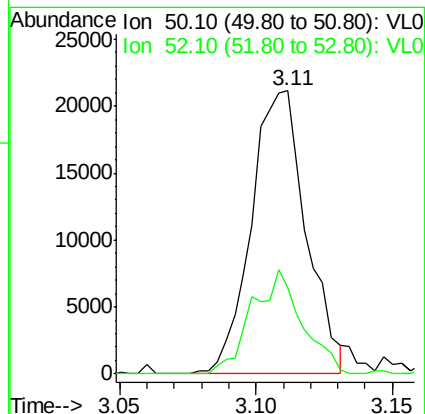
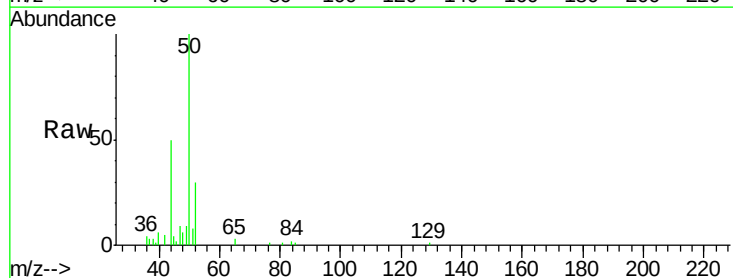
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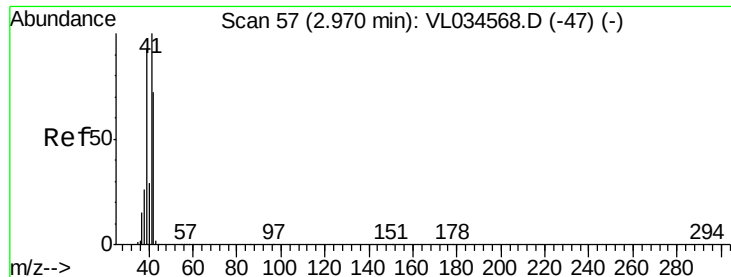


#4

Chloromethane
Concen: 0.451 ppbv
RT: 3.11 min Scan# 101
Delta R.T. 0.01 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Tgt Ion	Ratio	Lower	Upper
50	100		
52	30.3	26.6	39.8





#9

Propene

Concen: 0.888 ppbv m

RT: 2.99 min Scan# 62

Delta R.T. 0.02 min

Lab File: VL034587.D

Acq: 4 Feb 2020 19:53

Instrument :

MSVOA_L

ClientSampled :

AA-1

Tot Ion: 41 Resp: 36996

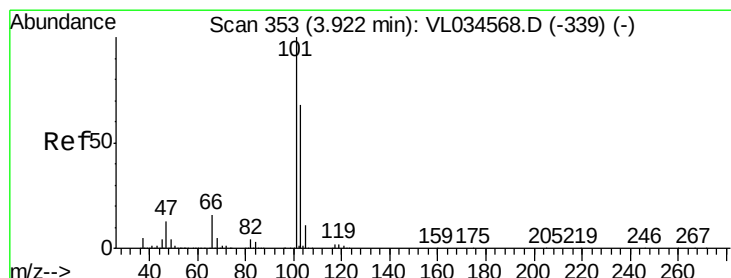
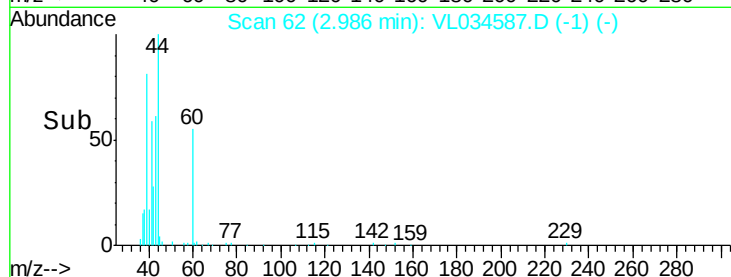
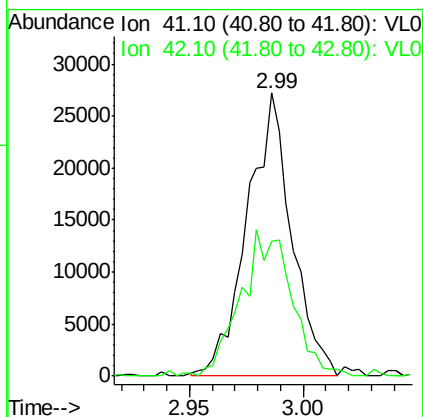
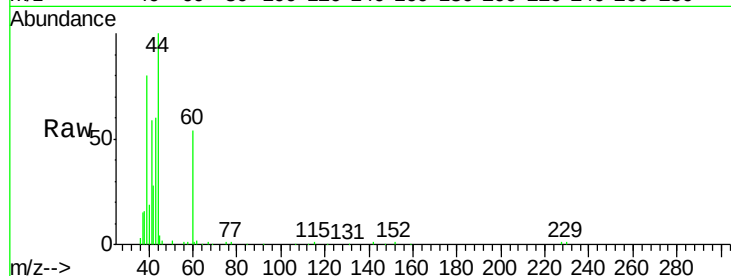
Ion Ratio Lower Upper

41 100

42 87.8 57.0 85.4#

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#11

Trichlorofluoromethane

Concen: 0.261 ppbv

RT: 3.93 min Scan# 355

Delta R.T. 0.01 min

Lab File: VL034587.D

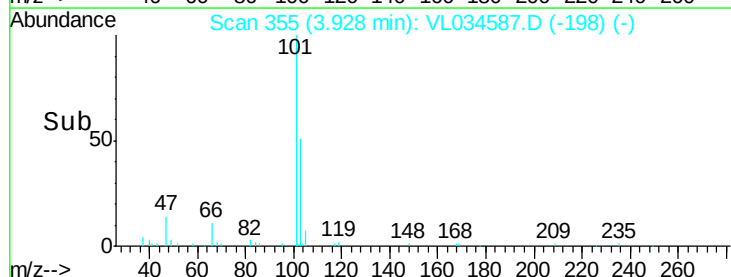
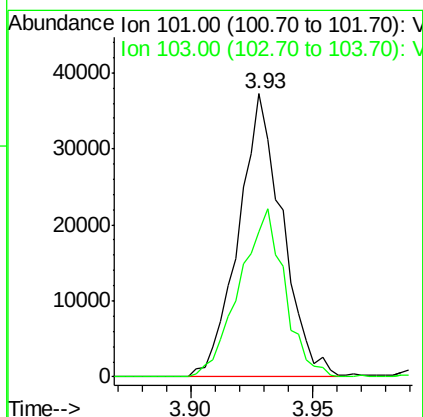
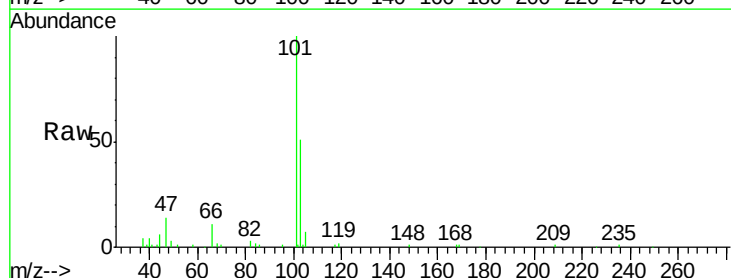
Acq: 4 Feb 2020 19:53

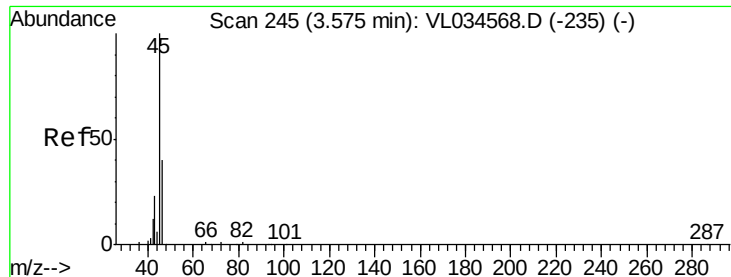
Tgt Ion: 101 Resp: 46330

Ion Ratio Lower Upper

101 100

103 51.2 54.4 81.6#





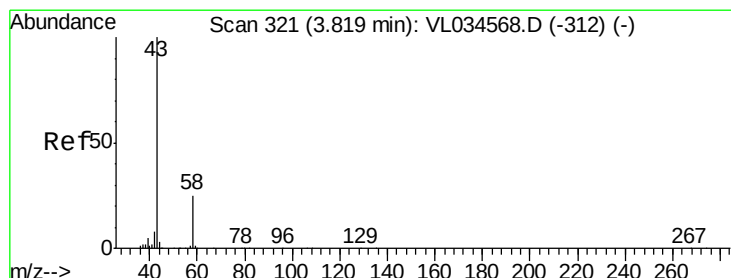
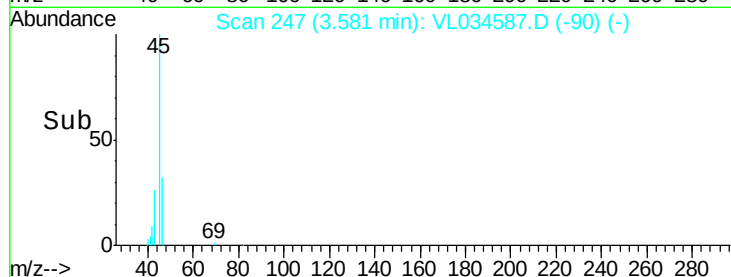
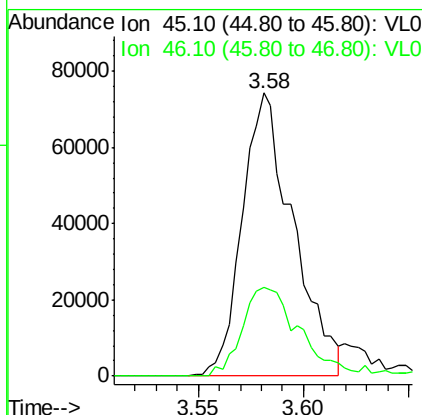
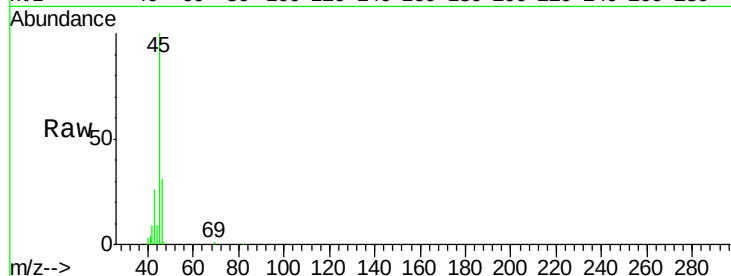
#13
Ethanol
Concen: 11.174 ppbv
RT: 3.58 min Scan# 247
Delta R.T. 0.01 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion	45	Resp	124754
Ion Ratio	100	Lower	Upper
46	37.0	14.8	59.2

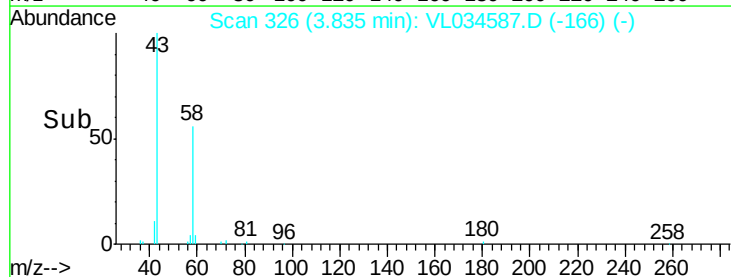
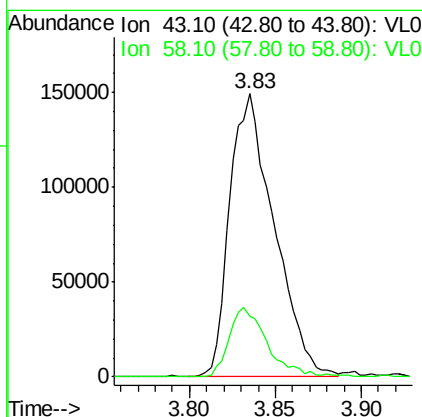
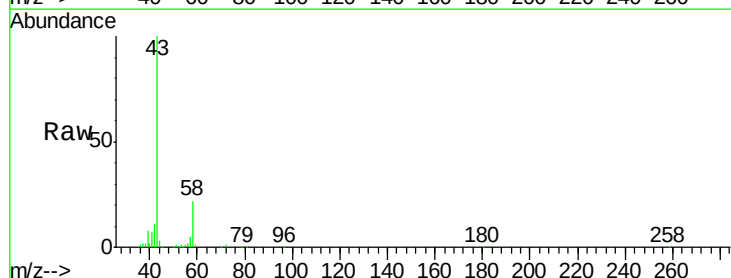
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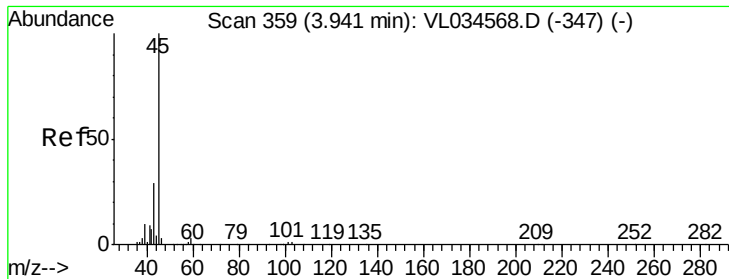
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#15
Acetone
Concen: 2.061 ppbv
RT: 3.83 min Scan# 326
Delta R.T. 0.02 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Tgt Ion	43	Resp	268334
Ion Ratio	100	Lower	Upper
58	21.1	20.3	30.5





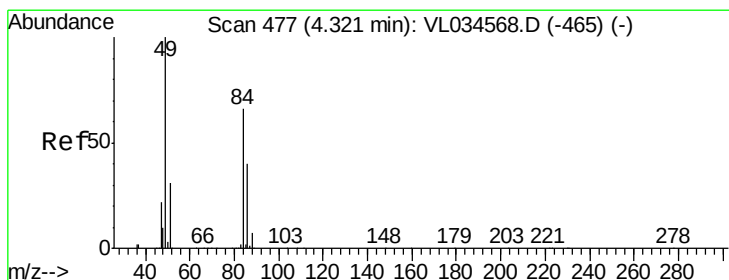
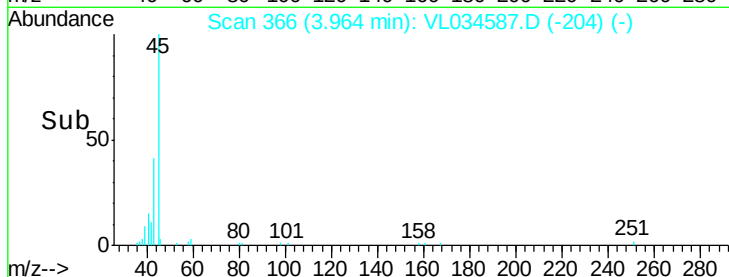
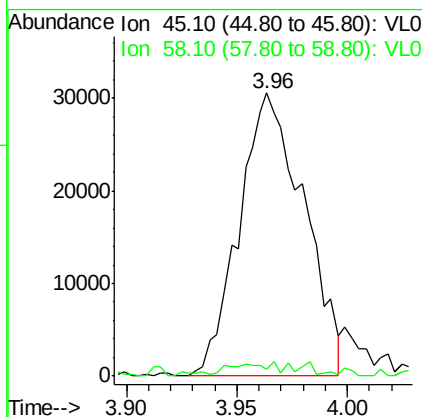
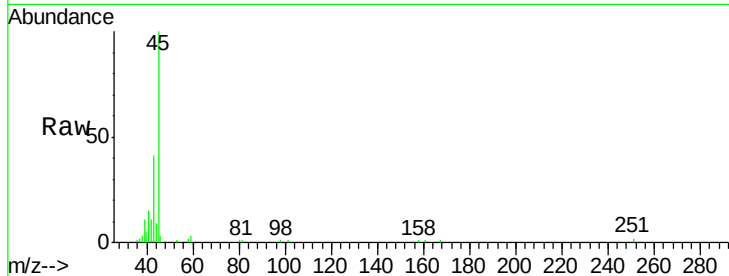
#19
Isopropyl Alcohol
Concen: 0.819 ppbv
RT: 3.96 min Scan# 366
Delta R.T. 0.02 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion: 45 Resp: 62202
Ion Ratio Lower Upper
45 100
58 3.5 1.7 2.5#

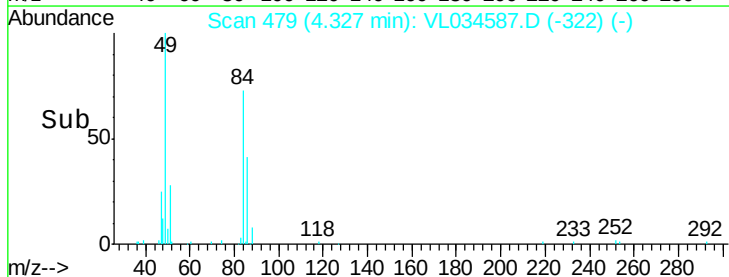
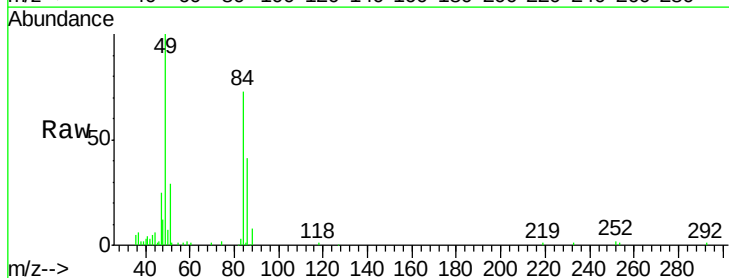
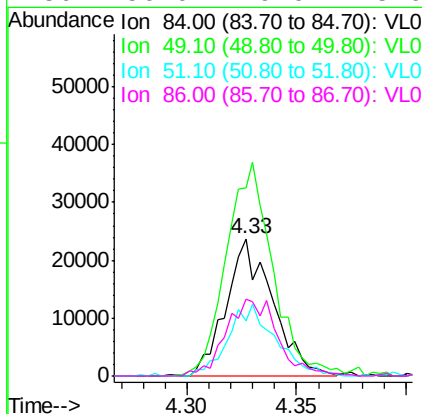
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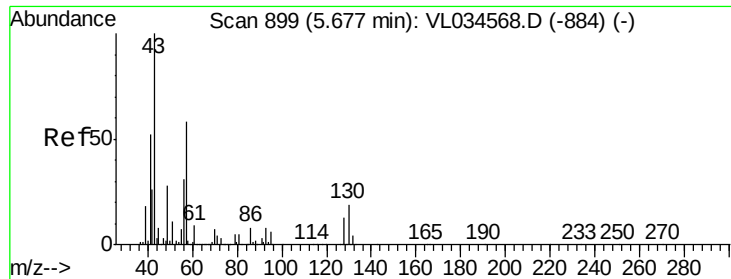
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#20
Methylene Chloride
Concen: 0.706 ppbv m
RT: 4.33 min Scan# 479
Delta R.T. 0.01 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Tgt Ion: 84 Resp: 35008
Ion Ratio Lower Upper
84 100
49 137.5 122.4 183.6
51 39.9 38.6 57.8
86 56.0 49.0 73.6





#26

Hexane

Concen: 0.401 ppbv m

RT: 5.68 min Scan# 900

Delta R.T. 0.00 min

Lab File: VL034587.D

Acq: 4 Feb 2020 19:53

Instrument :

MSVOA_L

ClientSampled :

AA-1

Tot Ion: 57 Resp: 35428

Ion Ratio Lower Upper

57 100

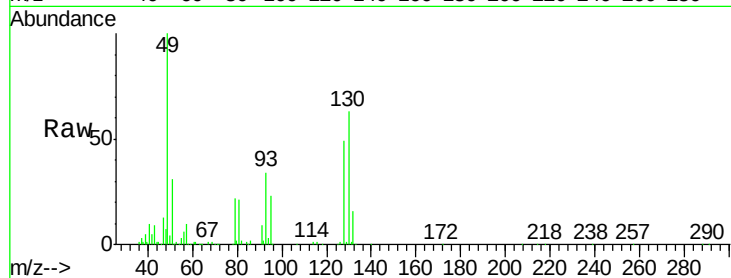
41 114.7 76.2 114.2#

43 109.3 189.9 284.9#

56 66.8 43.6 65.4#

Manual Integrations
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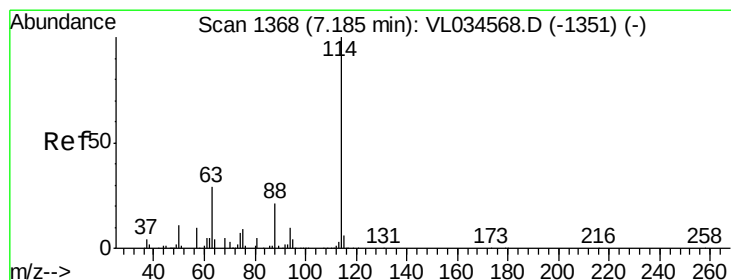
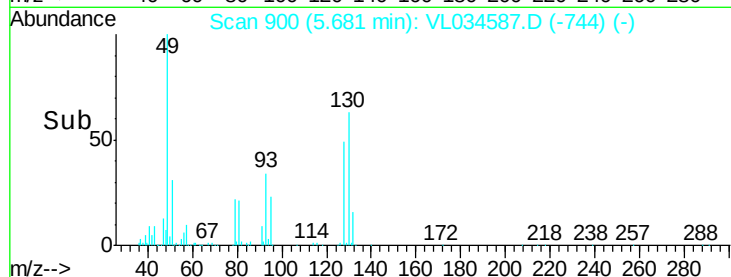
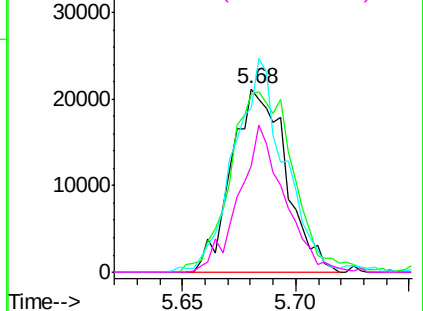


Abundance Ion 57.10 (56.80 to 57.80): VL0

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: 7.19 min Scan# 1369

Delta R.T. 0.00 min

Lab File: VL034587.D

Acq: 4 Feb 2020 19:53

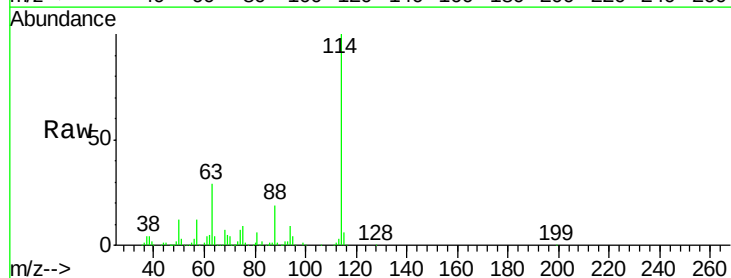
Tgt Ion: 114 Resp: 1835377

Ion Ratio Lower Upper

114 100

63 29.1 24.1 36.1

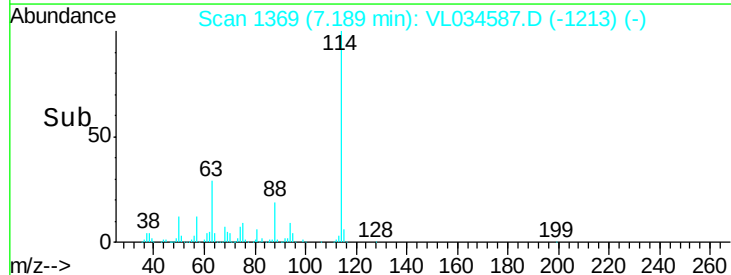
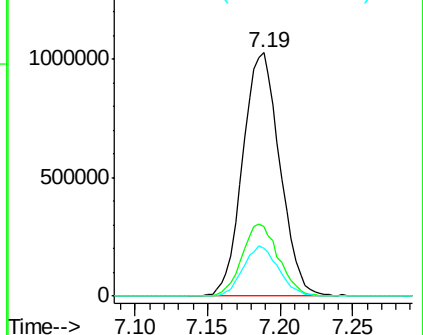
88 19.5 15.9 23.9

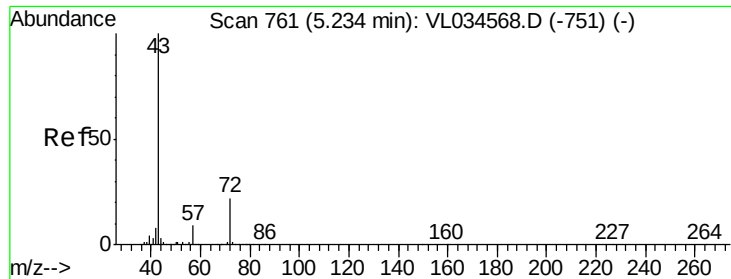


Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





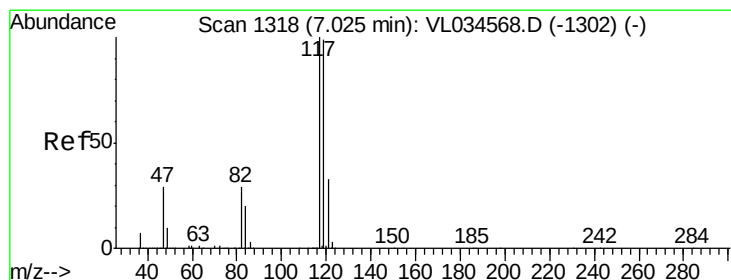
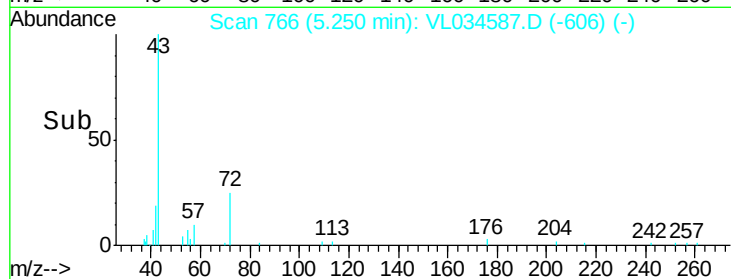
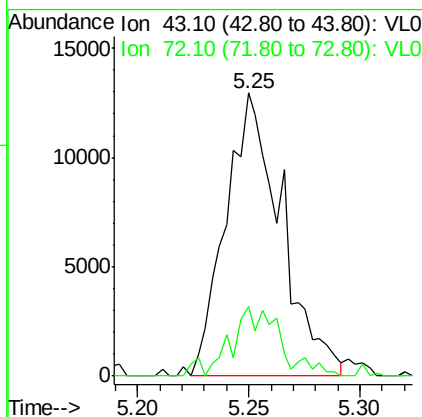
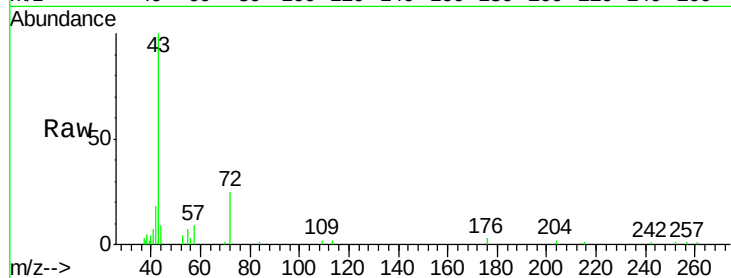
#34
2-Butanone
Concen: 0.170 ppbv m
RT: 5.25 min Scan# 766
Delta R.T. 0.02 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion	Ratio	Lower	Upper
43	100		
72	22.3	17.2	25.8

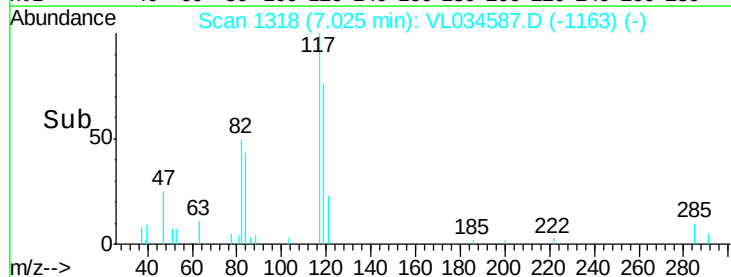
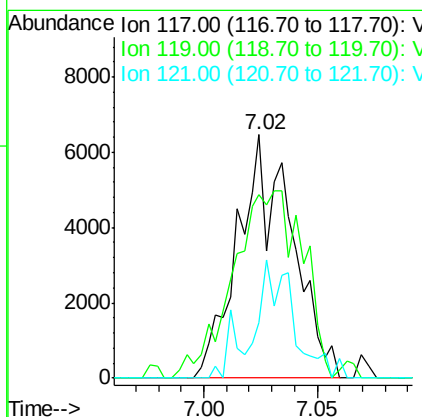
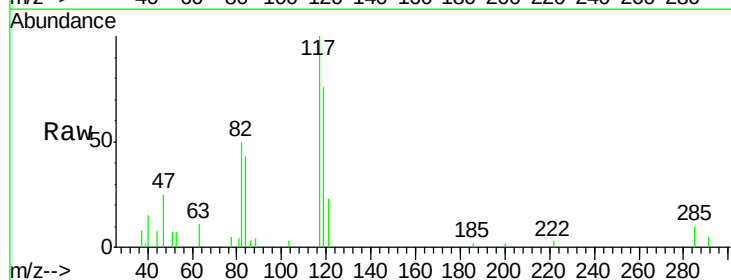
Manual Integrations
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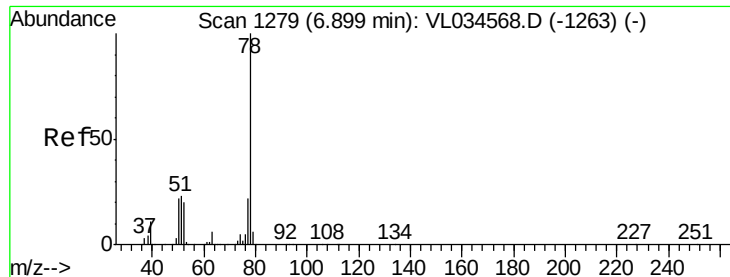
MMDadoda
2/5/2020 2:50:41 PM



#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 7.02 min Scan# 1318
Delta R.T. -0.00 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	75.5	79.5	119.3#
121	22.7	26.2	39.2#





#36

Benzene

Concen: 0.221 ppbv

RT: 6.90 min Scan# 1280

Delta R.T. 0.00 min

Lab File: VL034587.D

Acq: 4 Feb 2020 19:53

Instrument :

MSVOA_L

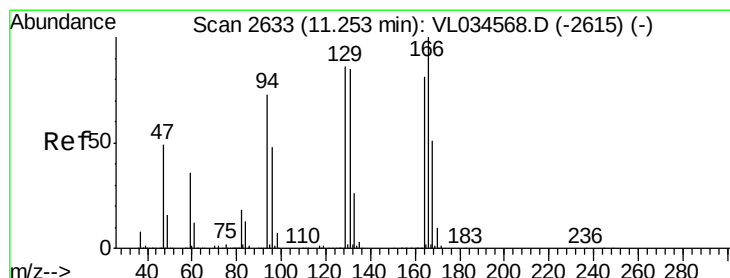
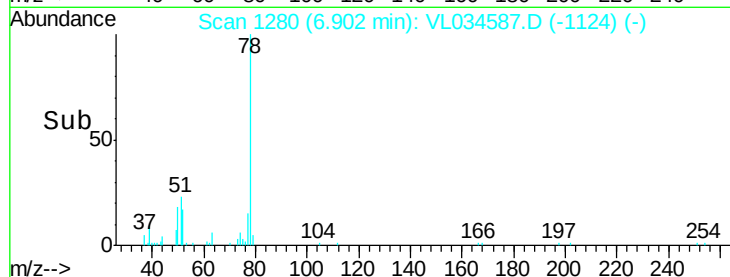
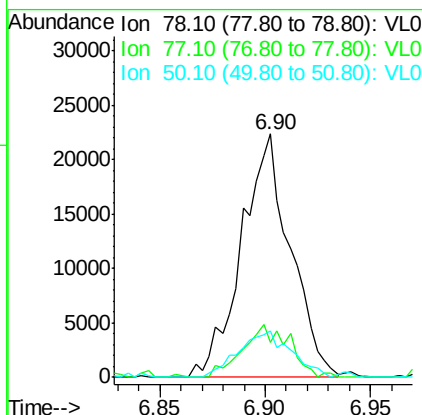
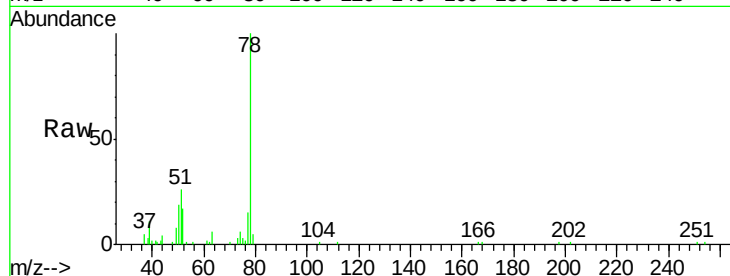
ClientSampled :

AA-1

Tot Ion:	78	Resp:	36013
Ion	Ratio	Lower	Upper
78	100		
77	14.6	17.3	25.9#
50	19.3	17.4	26.2

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#52

Tetrachloroethene

Concen: 0.113 ppbv m

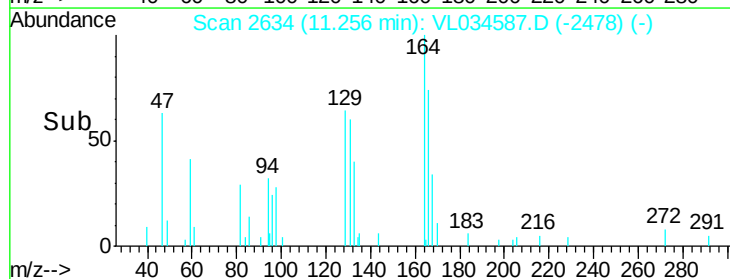
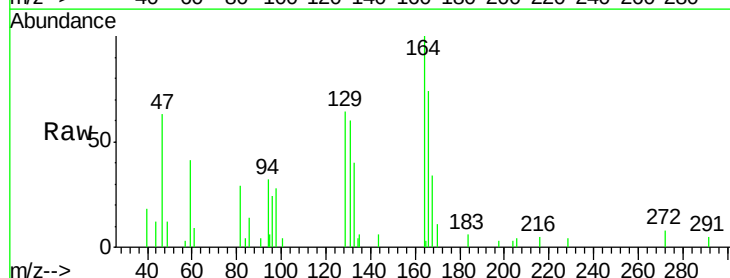
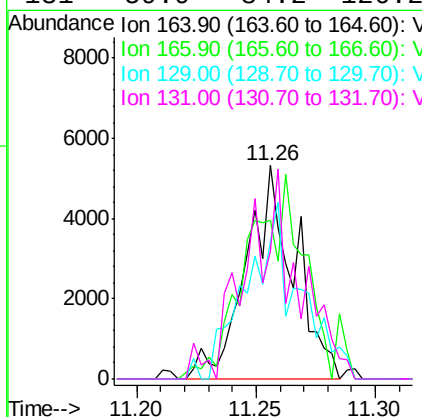
RT: 11.26 min Scan# 2634

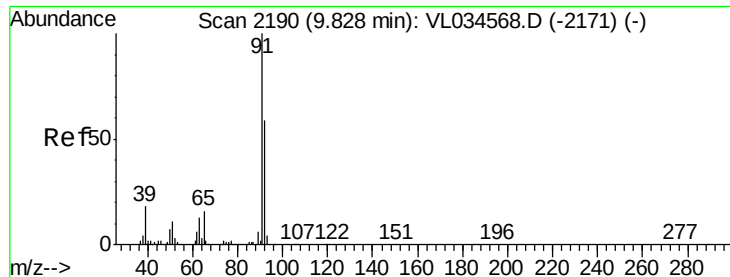
Delta R.T. 0.00 min

Lab File: VL034587.D

Acq: 4 Feb 2020 19:53

Tgt Ion:	164	Resp:	7438
Ion	Ratio	Lower	Upper
164	100		
166	74.5	99.0	148.4#
129	64.2	85.3	127.9#
131	59.9	84.2	126.2#





#53

Toluene

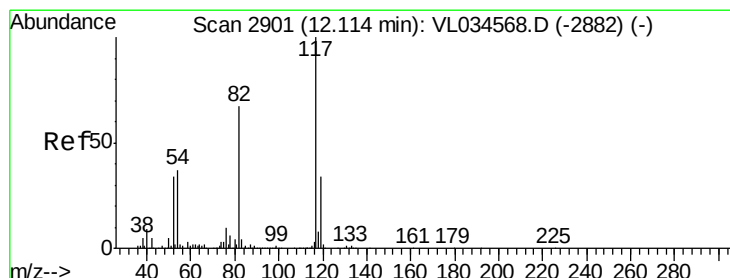
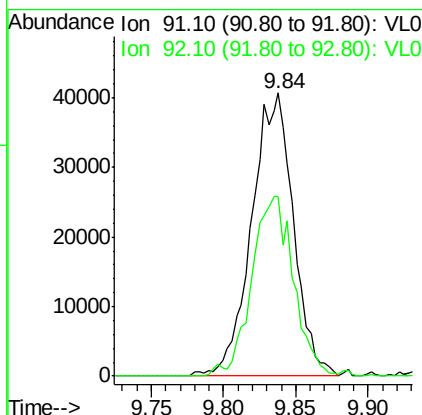
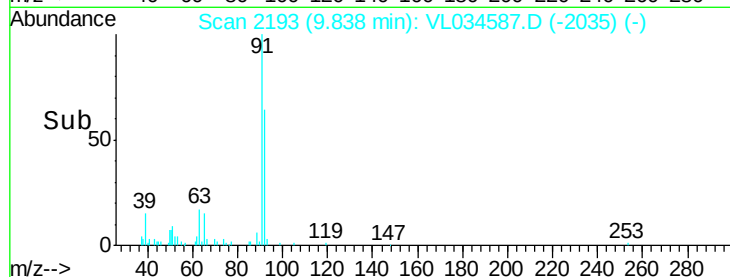
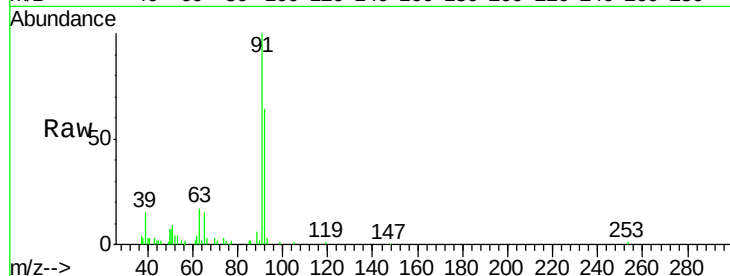
Concen: 0.456 ppbv m
RT: 9.84 min Scan# 2193
Delta R.T. 0.01 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Instrument :
MSVOA_L
ClientSampleId :
AA-1

Tot Ion: 91 Resp: 81794
Ion Ratio Lower Upper
91 100
92 0.0 48.2 72.2#

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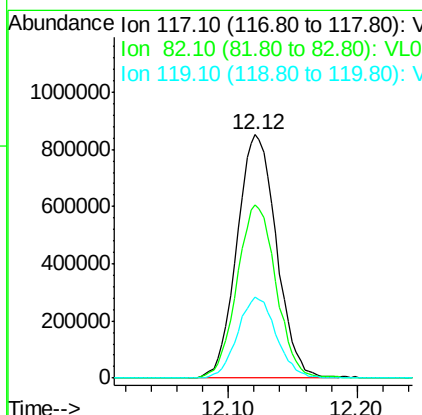
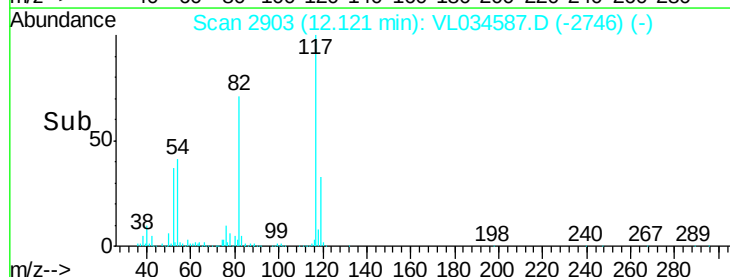
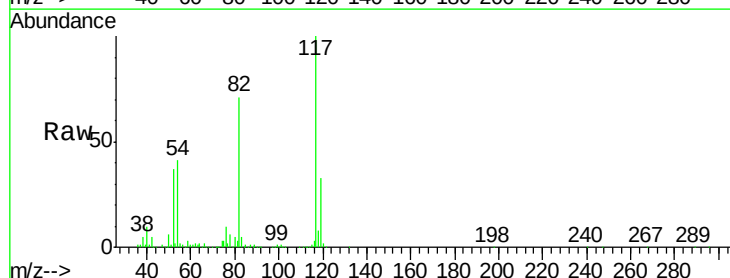


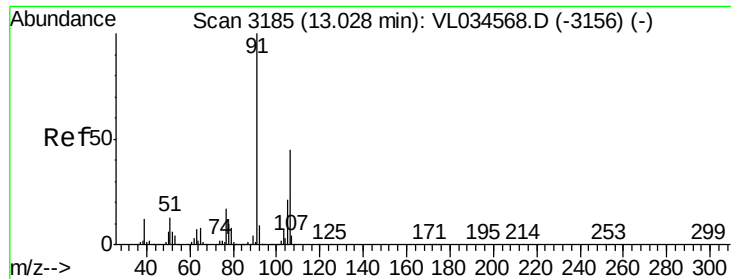
#55

Chlorobenzene-d5

Concen: 10.000 ppbv
RT: 12.12 min Scan# 2903
Delta R.T. 0.01 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Tgt Ion: 117 Resp: 1815492
Ion Ratio Lower Upper
117 100
82 70.6 54.2 81.4
119 32.4 26.1 39.1





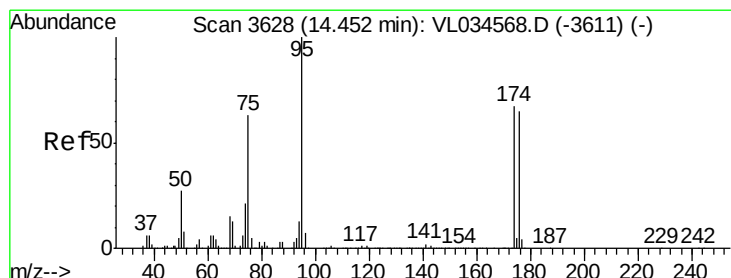
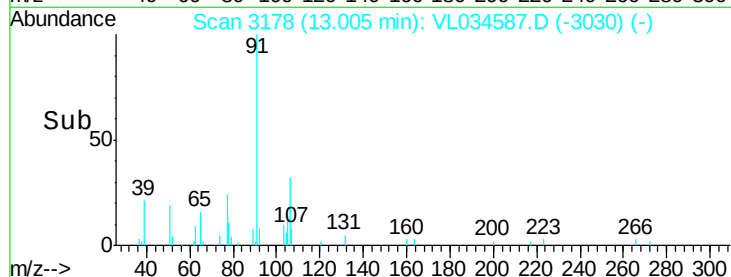
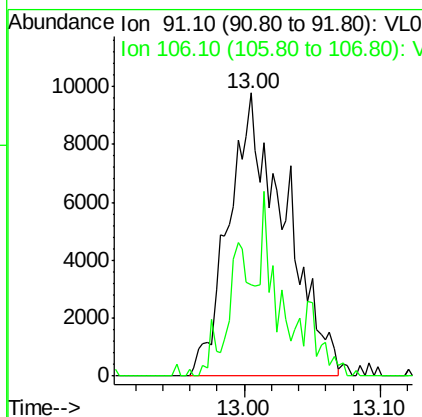
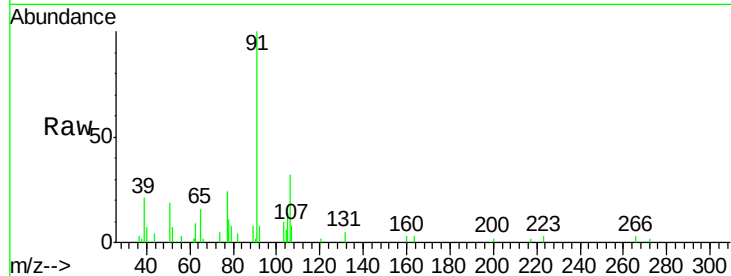
#59
m/p-Xylene
Concen: 0.131 ppbv m
RT: 13.00 min Scan# 3178
Delta R.T. -0.02 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Instrument :
MSVOA_L
ClientSampled :
AA-1

Tot Ion: 91 Resp: 28030
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: 10.392 ppbv
RT: 14.46 min Scan# 3630
Delta R.T. 0.01 min
Lab File: VL034587.D
Acq: 4 Feb 2020 19:53

Tgt Ion: 95 Resp: 1594492
Ion Ratio Lower Upper
95 100
174 63.9 52.3 78.5
175 4.6 3.8 5.6

