

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL020420\
 Data File : VL034583.D
 Acq On : 4 Feb 2020 17:15
 Operator : SY/AP
 Sample : L1356-02
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Manual Integrations
 APPROVED

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 2/5/2020 2:50:23 PM

Quant Time: Feb 05 06:37:19 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	926080	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.19	114	1869928	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.12	117	1791223	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.46	95	1611641	10.65	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	106.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	37984m	0.186	ppbv	
3) Chlorodifluoromethane	2.95	51	39022m	0.349	ppbv	
4) Chloromethane	3.11	50	106697	1.558	ppbv	90
9) Propene	2.99	41	94895m	2.178	ppbv	
10) Heptane	8.14	43	17182m	0.157	ppbv	
11) Trichlorofluoromethane	3.93	101	54944	0.297	ppbv	85
13) Ethanol	3.59	45	7009345	600.611	ppbv	93
15) Acetone	3.83	43	867222	6.372	ppbv	98
19) Isopropyl Alcohol	3.97	45	246687	3.106	ppbv #	96
20) Methylene Chloride	4.33	84	120182	2.319	ppbv	92
26) Hexane	5.68	57	267823	2.902	ppbv #	62
29) Chloroform	5.75	83	65458	0.401	ppbv #	82
34) 2-Butanone	5.24	43	77066	0.568	ppbv	99
35) Carbon Tetrachloride	7.02	117	13560m	0.076	ppbv	
36) Benzene	6.90	78	67557	0.406	ppbv	97
44) 2,2,4-Trimethylpentane	7.88	57	33228m	0.110	ppbv	
52) Tetrachloroethene	11.27	164	2947m	0.044	ppbv	
53) Toluene	9.83	91	247357	1.354	ppbv	99
59) m/p-Xylene	13.00	91	51269m	0.242	ppbv	

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

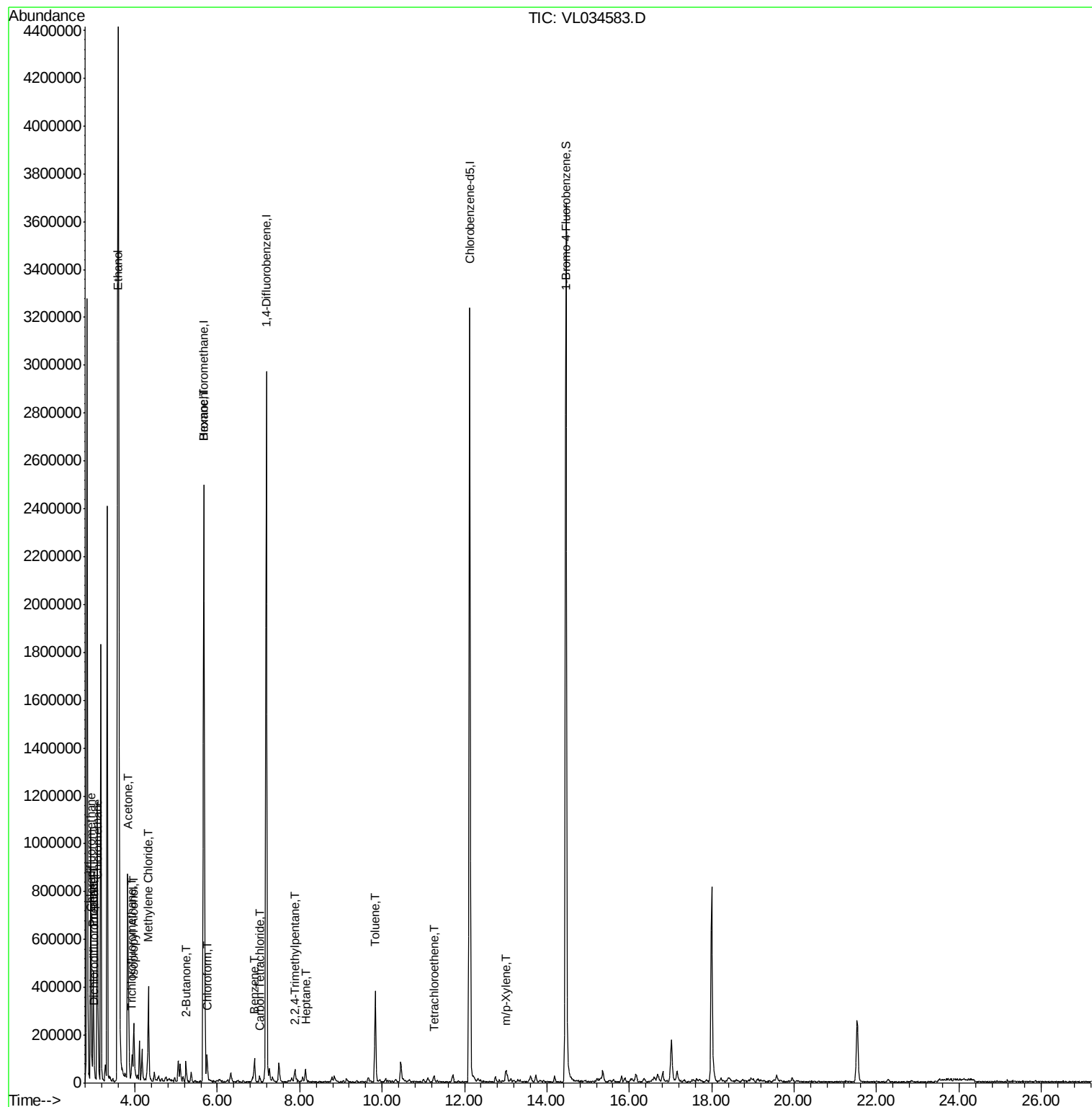
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL020420\
Data File : VL034583.D
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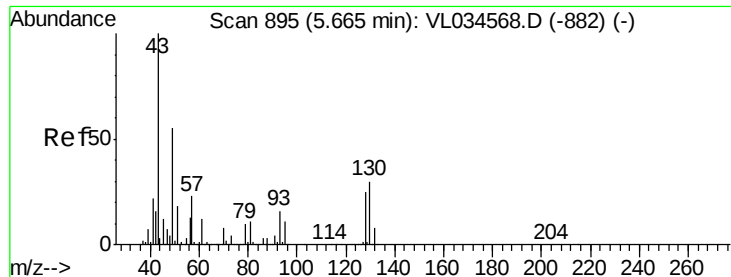
Instrument :
MSVOA_L
ClientSampleId :
IA-2

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Quant Time: Feb 05 06:37:19 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





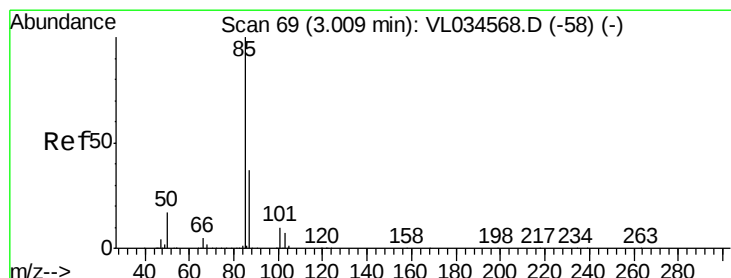
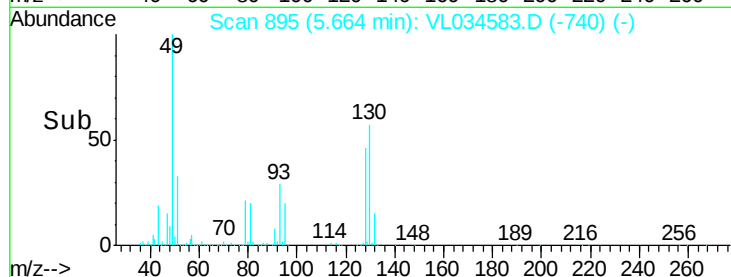
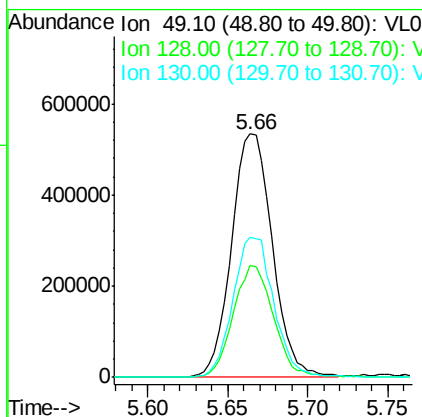
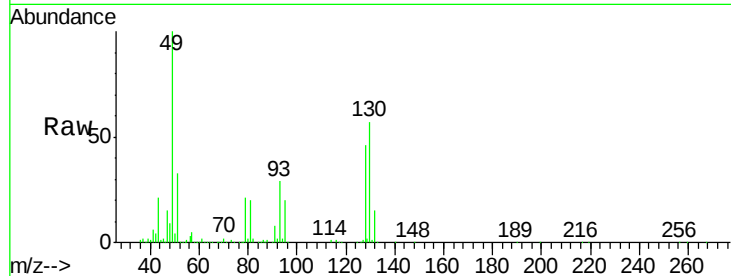
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.66 min Scan# 895
Delta R.T. -0.00 min
Lab File: VL034583.D
Acq: 4 Feb 2020 17:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.7	22.7	68.1
130	57.9	28.6	85.8

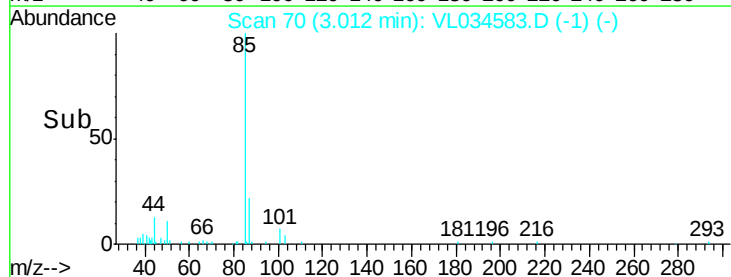
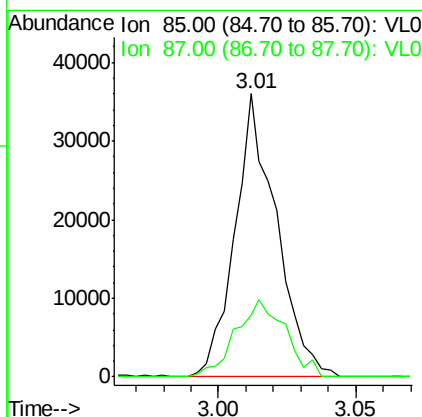
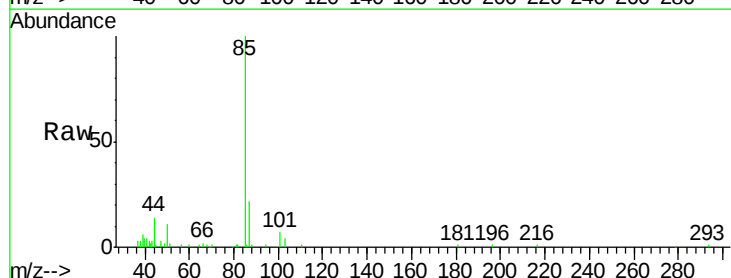
Manual Integrations
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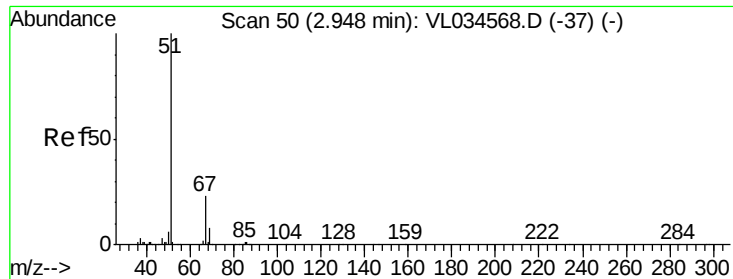
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#2
Dichlorodifluoromethane
Concen: 0.186 ppbv m
RT: 3.01 min Scan# 70
Delta R.T. 0.00 min
Lab File: VL034583.D
Acq: 4 Feb 2020 17:15

Tgt Ion	Ratio	Lower	Upper
85	100		
87	22.0	29.5	44.3





#3

Chlorodifluoromethane

Concen: 0.349 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.00 min

Lab File: VL034583.D

Acq: 4 Feb 2020 17:15

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tot Ion: 51 Resp: 39022

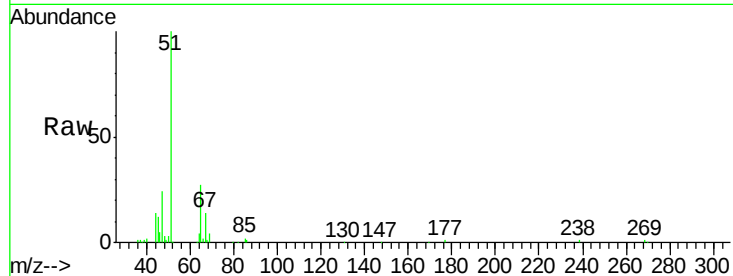
Ion Ratio Lower Upper

51 100

67 29.9 17.8 26.8#

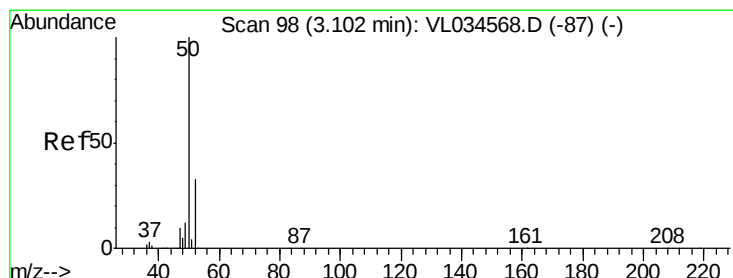
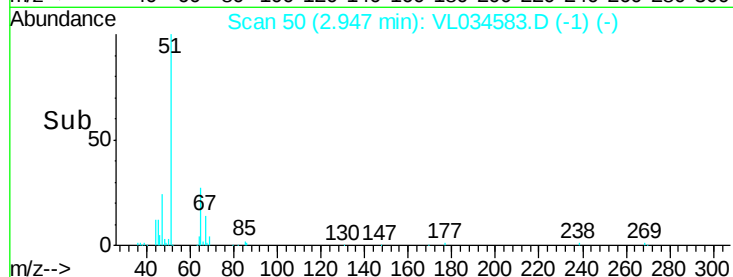
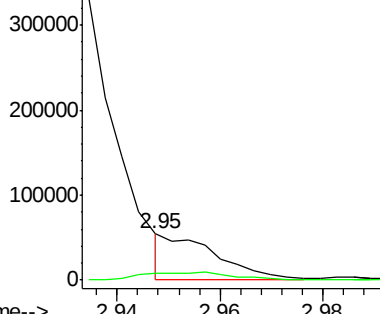
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Abundance Ion 51.00 (50.70 to 51.70): VL0

Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 1.558 ppbv

RT: 3.11 min Scan# 100

Delta R.T. 0.01 min

Lab File: VL034583.D

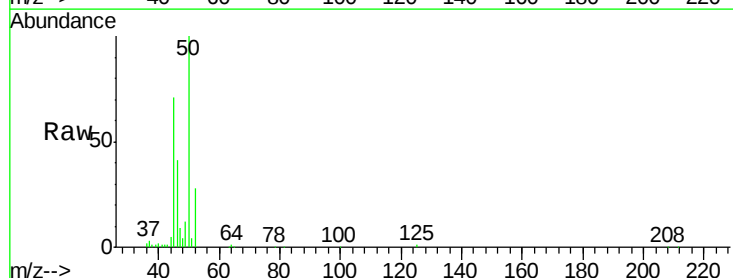
Acq: 4 Feb 2020 17:15

Tgt Ion: 50 Resp: 106697

Ion Ratio Lower Upper

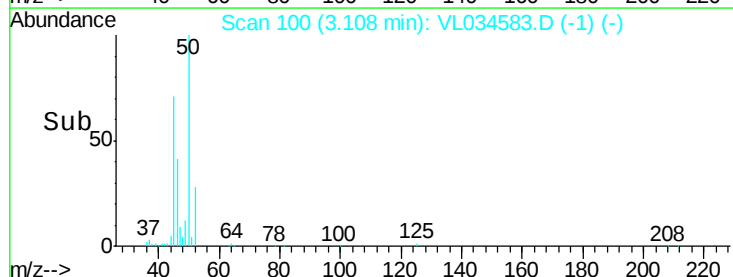
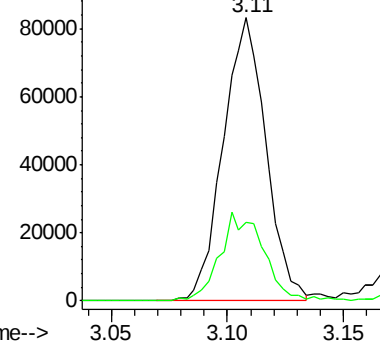
50 100

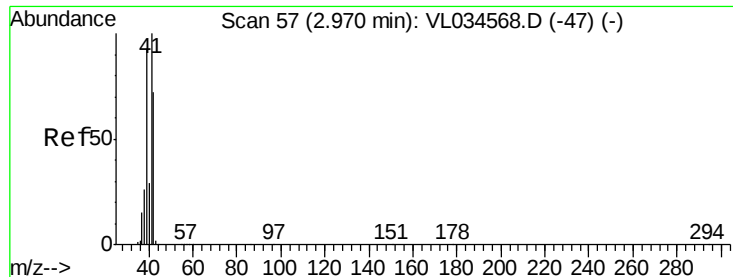
52 27.8 26.6 39.8



Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 2.178 ppbv m

RT: 2.99 min Scan# 62

Delta R.T. 0.02 min

Lab File: VL034583.D

Acq: 4 Feb 2020 17:15

Instrument :

MSVOA_L

ClientSampleId :

IA-2

Tot Ion: 41 Resp: 94895

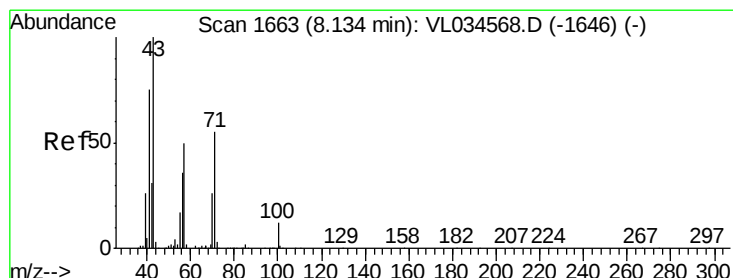
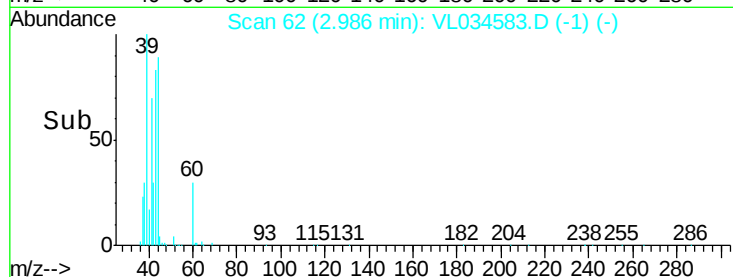
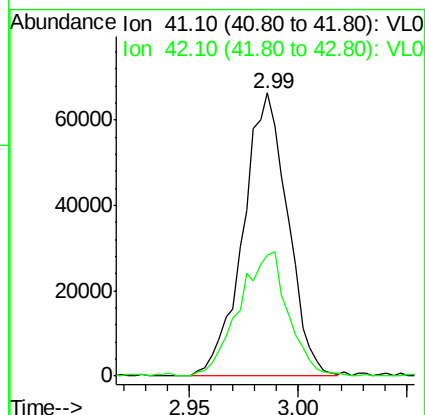
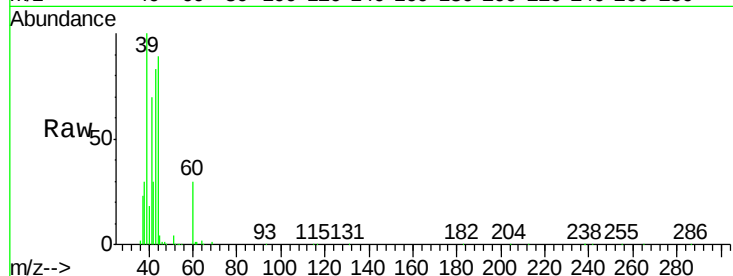
Ion Ratio Lower Upper

41 100

42 326.3 57.0 85.4#

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#10

Heptane

Concen: 0.157 ppbv m

RT: 8.14 min Scan# 1664

Delta R.T. 0.00 min

Lab File: VL034583.D

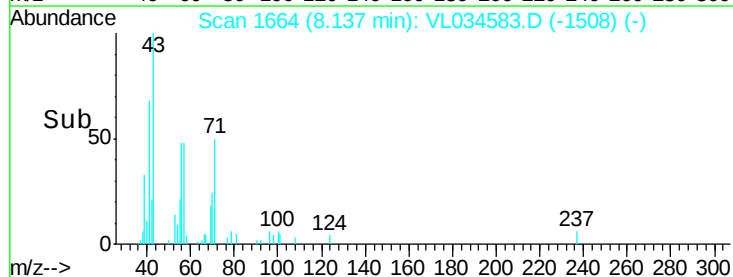
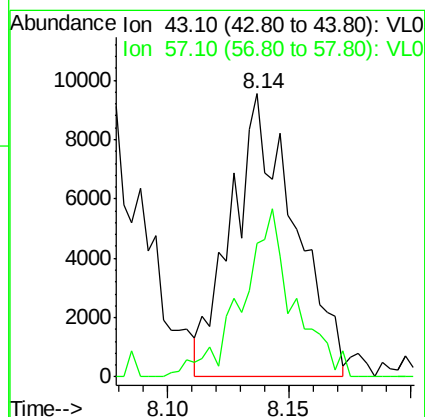
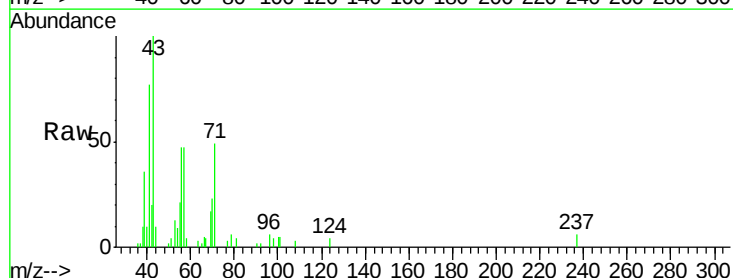
Acq: 4 Feb 2020 17:15

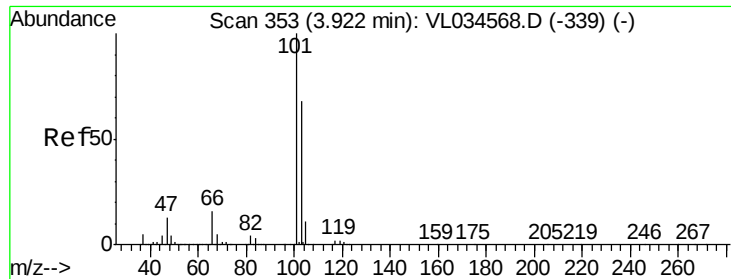
Tgt Ion: 43 Resp: 17182

Ion Ratio Lower Upper

43 100

57 0.0 41.2 61.8#





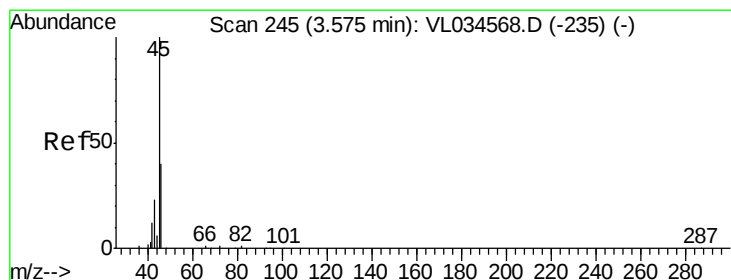
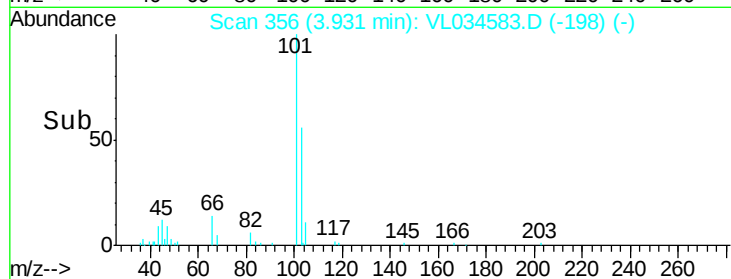
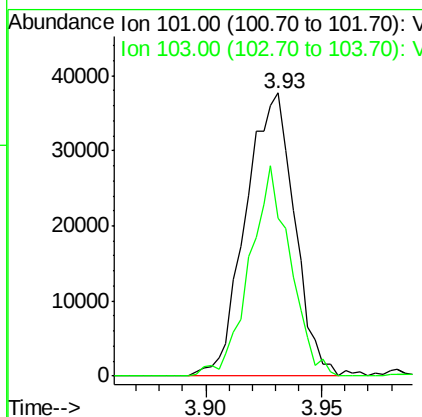
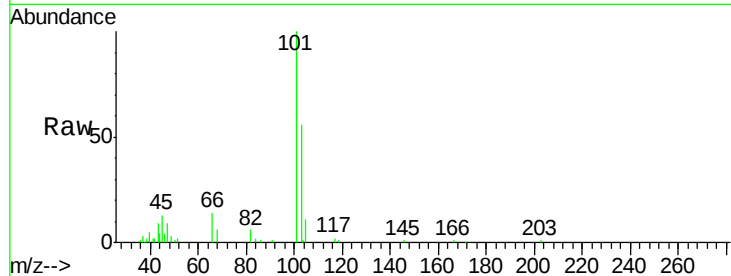
#11
 Trichlorofluoromethane
 Concen: 0.297 ppbv
 RT: 3.93 min Scan# 356
 Delta R.T. 0.01 min
 Lab File: VL034583.D
 Acq: 4 Feb 2020 17:15

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Tot Ion	Ratio	Lower	Upper
101	100		
103	55.9	54.4	81.6

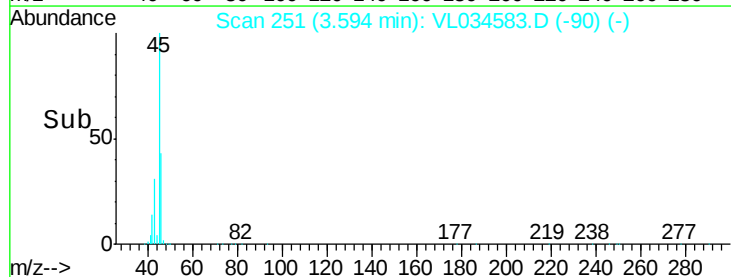
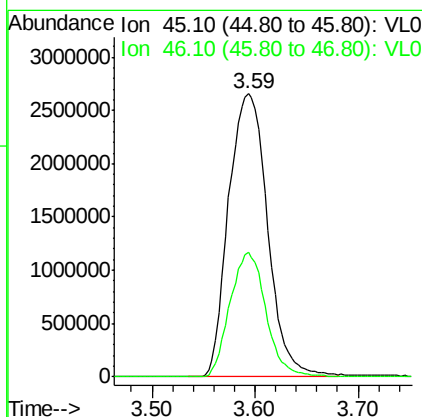
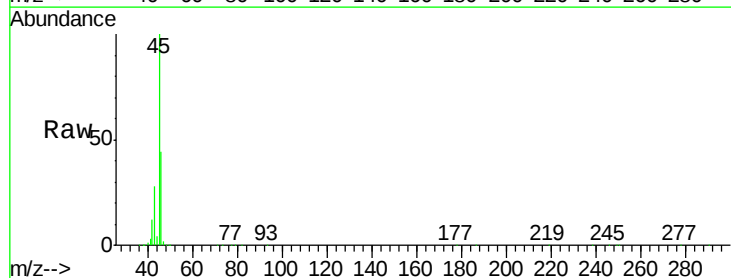
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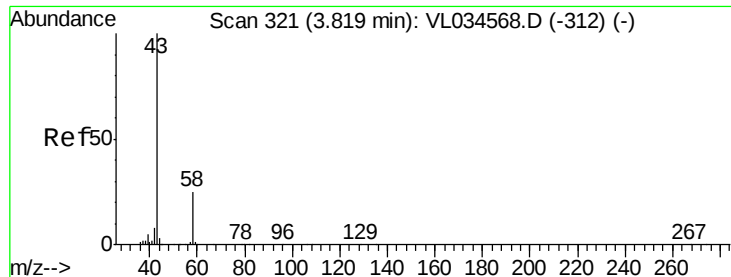
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#13
 Ethanol
 Concen: 600.611 ppbv
 RT: 3.59 min Scan# 251
 Delta R.T. 0.02 min
 Lab File: VL034583.D
 Acq: 4 Feb 2020 17:15

Tgt Ion	Ratio	Lower	Upper
45	100		
46	40.9	14.8	59.2





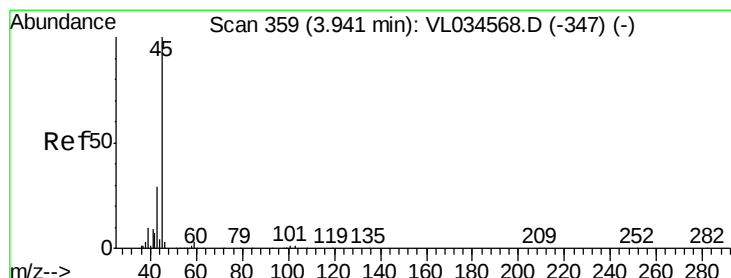
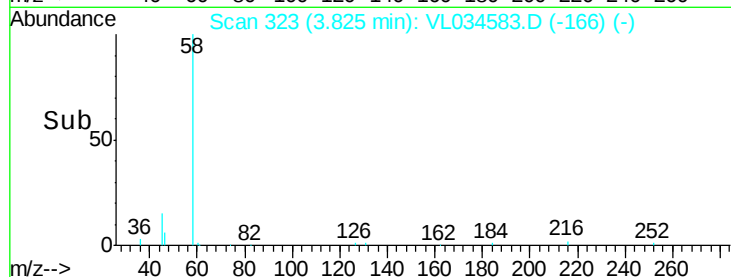
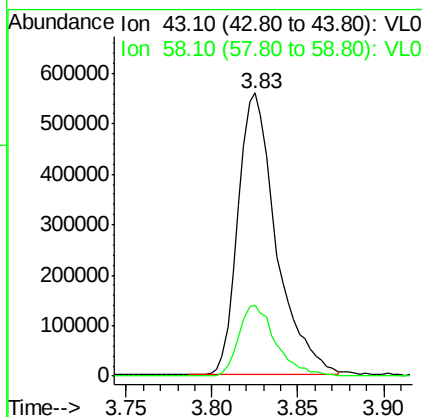
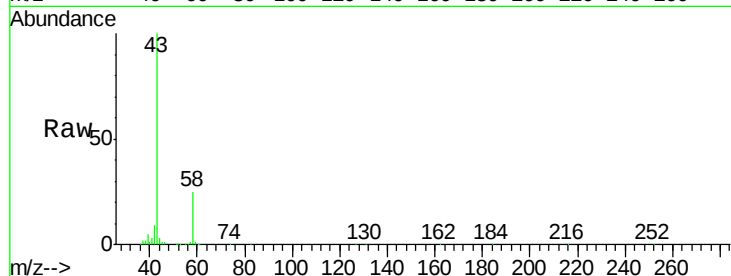
#15
Acetone
Concen: 6.372 ppbv
RT: 3.83 min Scan# 323
Delta R.T. 0.01 min
Lab File: VL034583.D
Acq: 4 Feb 2020 17:15

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion: 43 Resp: 867222
Ion Ratio Lower Upper
43 100
58 24.6 20.3 30.5

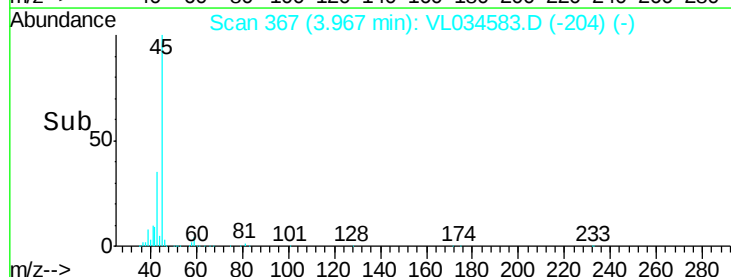
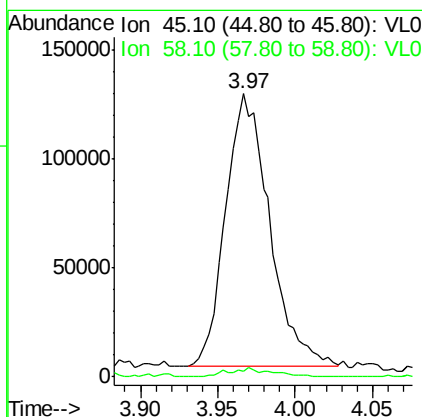
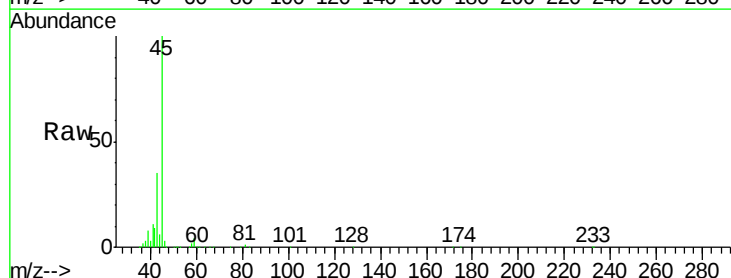
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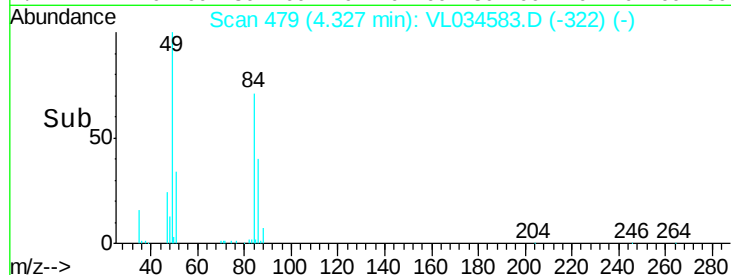
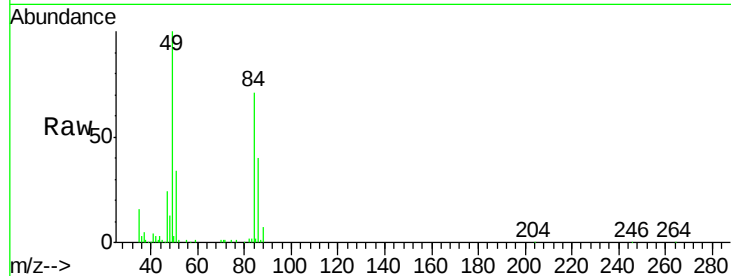
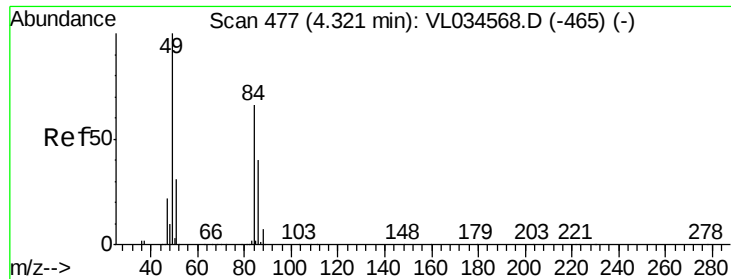
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#19
Isopropyl Alcohol
Concen: 3.106 ppbv
RT: 3.97 min Scan# 367
Delta R.T. 0.03 min
Lab File: VL034583.D
Acq: 4 Feb 2020 17:15

Tgt Ion: 45 Resp: 246687
Ion Ratio Lower Upper
45 100
58 3.5 1.7 2.5#





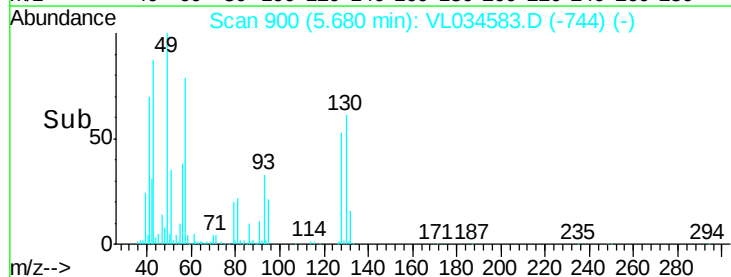
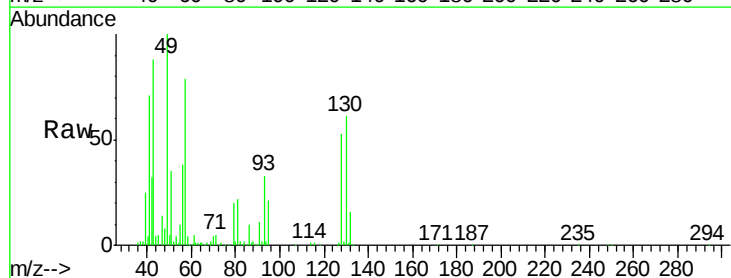
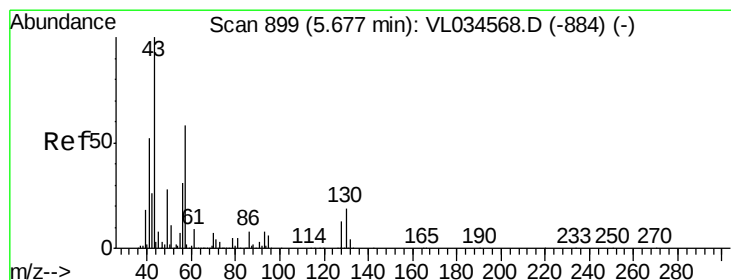
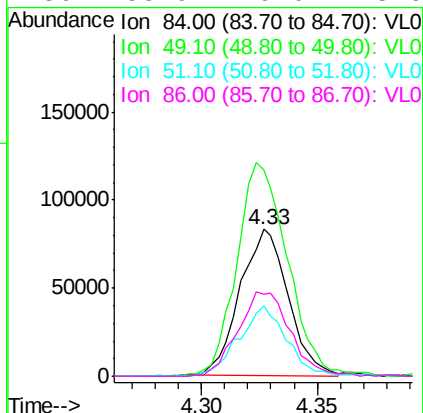
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Methvlene Chloride
Concen: 2.319 ppbv
RT: 4.33 min Scan# 479
Delta R.T. 0.01 min
Lab File: VL034583.D
Acq: 4 Feb 2020 17:15

Tot Ion	84	Resp	120182
Ion	Ratio	Lower	Upper
84	100		
49	139.1	122.4	183.6
51	48.0	38.6	57.8
86	55.9	49.0	73.6

Instrument :
MSVOA_L
ClientSampled :
IA-2

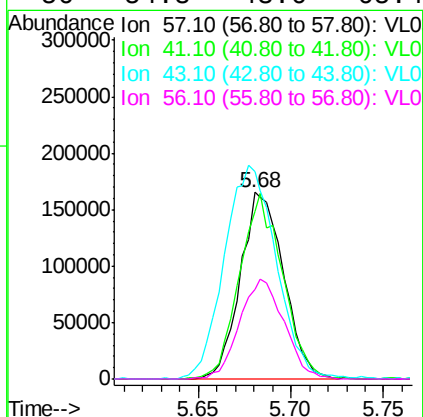
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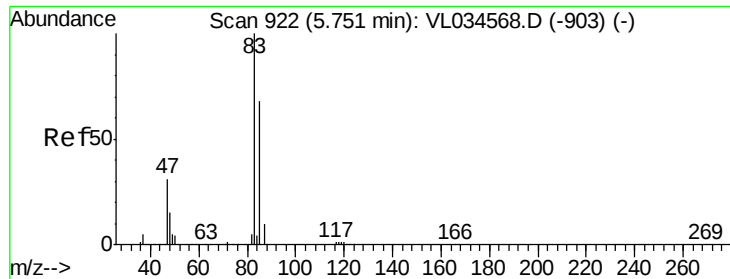
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#26
Hexane
Concen: 2.902 ppbv
RT: 5.68 min Scan# 900
Delta R.T. 0.00 min
Lab File: VL034583.D
Acq: 4 Feb 2020 17:15

Tgt Ion	57	Resp	267823
Ion	Ratio	Lower	Upper
57	100		
41	99.1	76.2	114.2
43	136.8	189.9	284.9#
56	54.8	43.6	65.4





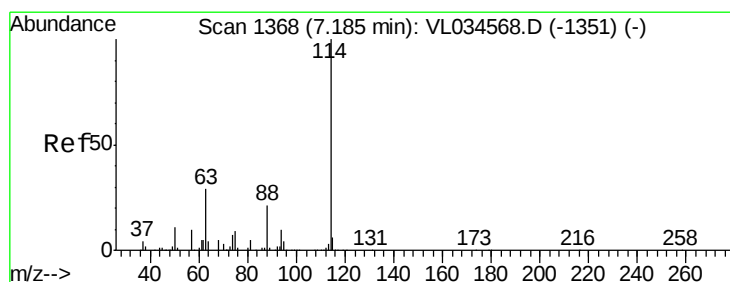
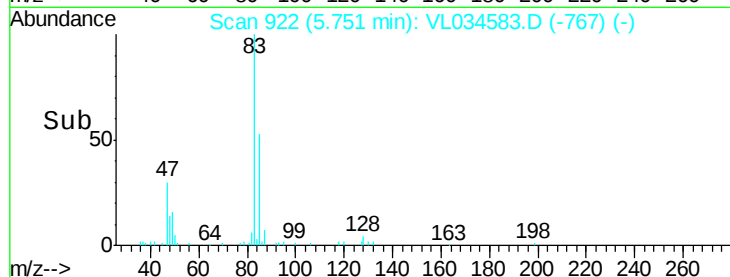
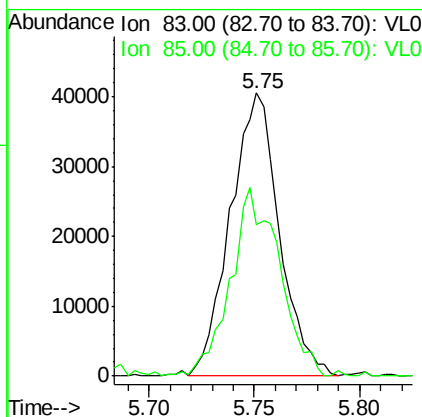
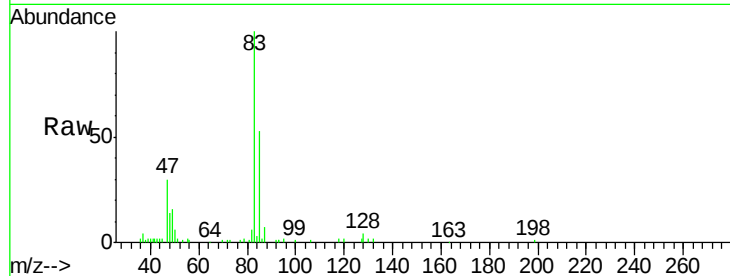
#29
Chloroform
Concen: 0.401 ppbv
RT: 5.75 min Scan# 922
Delta R.T. -0.00 min
Lab File: VL034583.D
Acq: 4 Feb 2020 17:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion	83	Resp	65458
Ion Ratio	100	Lower	Upper
83	100		
85	52.7	54.0	81.0#

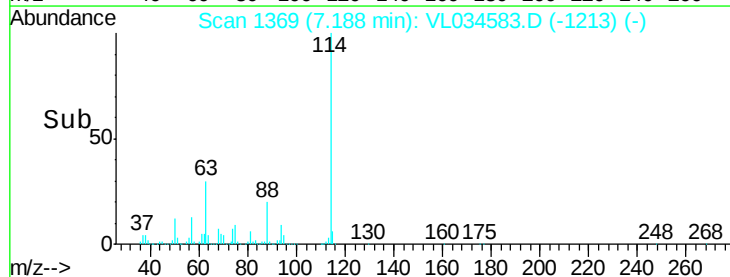
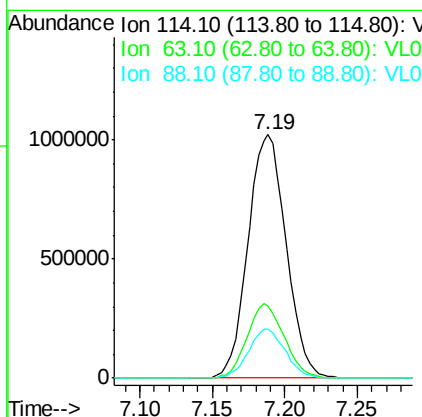
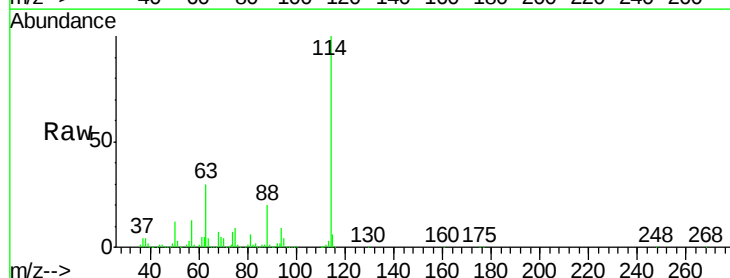
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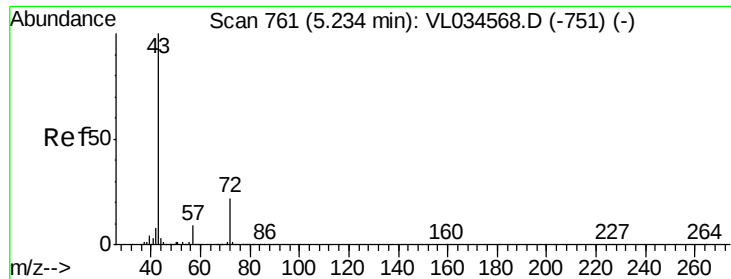
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.19 min Scan# 1369
Delta R.T. 0.00 min
Lab File: VL034583.D
Acq: 4 Feb 2020 17:15

Tgt Ion	114	Resp	1869928
Ion Ratio	100	Lower	Upper
114	100		
63	29.8	24.1	36.1
88	19.6	15.9	23.9





#34

2-Butanone

Concen: 0.568 ppbv

RT: 5.24 min Scan# 763

Delta R.T. 0.01 min

Lab File: VL034583.D

Acq: 4 Feb 2020 17:15

Instrument :

MSVOA_L

ClientSampled :

IA-2

Tot Ion: 43 Resp: 77066

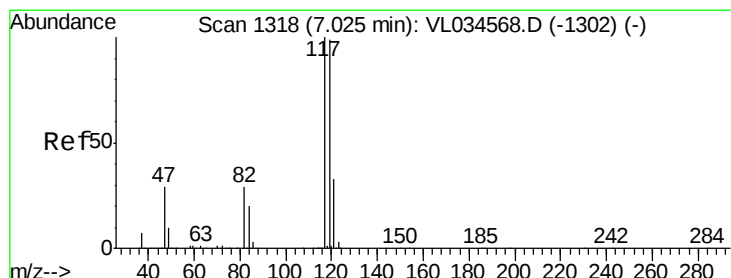
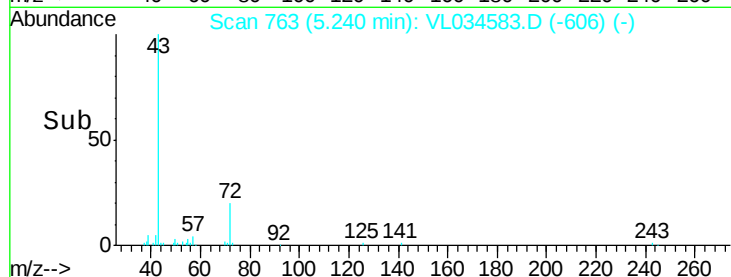
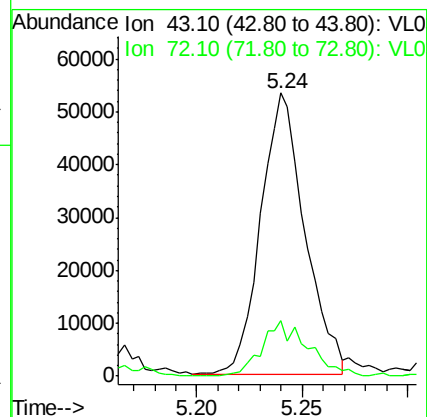
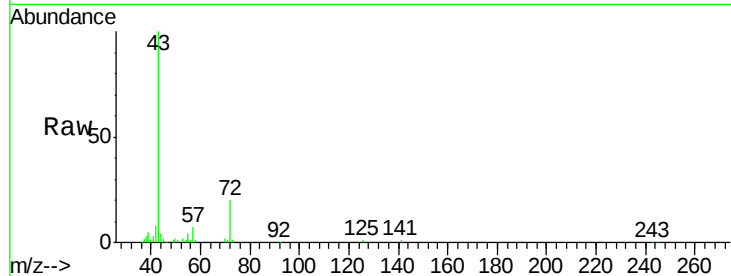
Ion Ratio Lower Upper

43 100

72 20.8 17.2 25.8

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#35

Carbon Tetrachloride

Concen: 0.076 ppbv m

RT: 7.02 min Scan# 1318

Delta R.T. -0.00 min

Lab File: VL034583.D

Acq: 4 Feb 2020 17:15

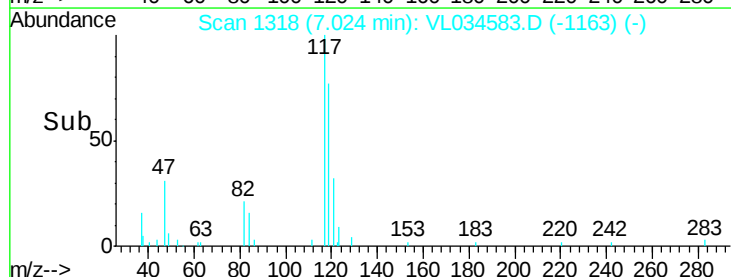
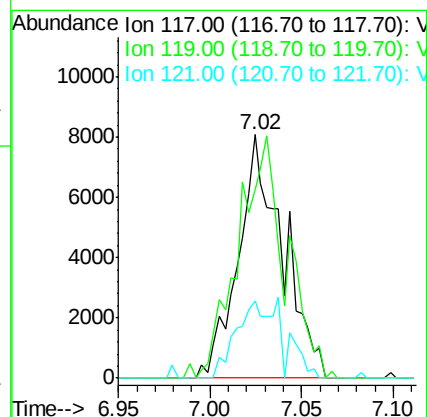
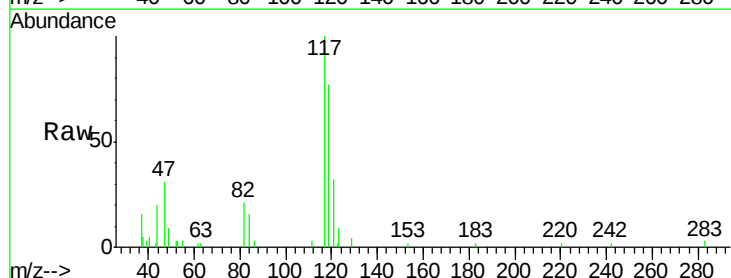
Tgt Ion: 117 Resp: 13560

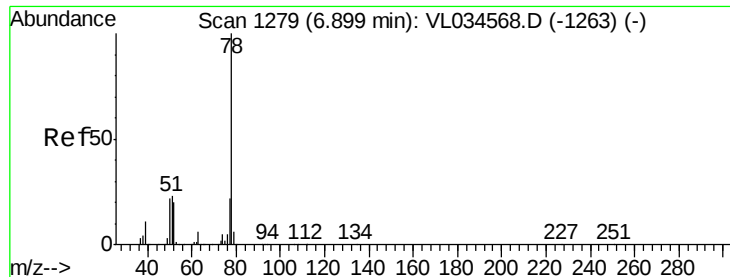
Ion Ratio Lower Upper

117 100

119 77.5 79.5 119.3#

121 31.5 26.2 39.2





#36

Benzene

Concen: 0.406 ppbv

RT: 6.90 min Scan# 1279

Delta R.T. -0.00 min

Lab File: VL034583.D

Acq: 4 Feb 2020 17:15

Instrument :

MSVOA_L

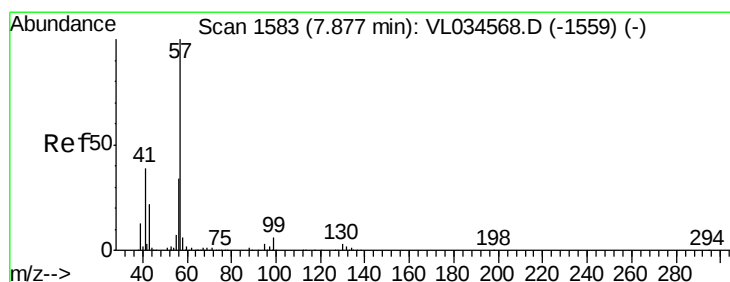
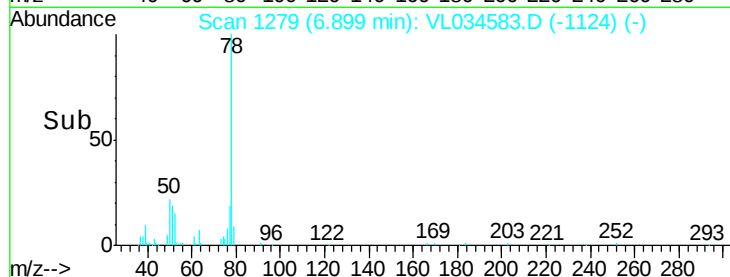
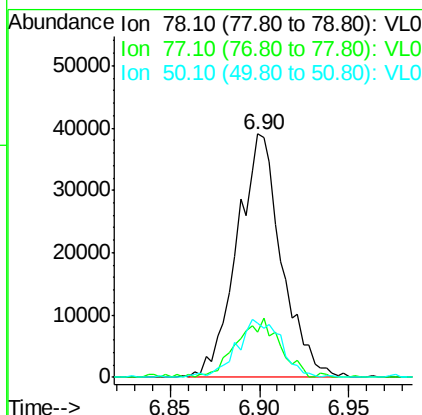
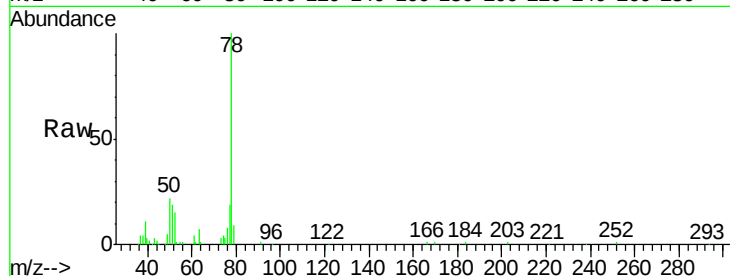
ClientSampled :

IA-2

Tot Ion:	78	Resp:	67557
Ion	Ratio	Lower	Upper
78	100		
77	18.8	17.3	25.9
50	22.1	17.4	26.2

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#44

2,2,4-Trimethylpentane

Concen: 0.110 ppbv m

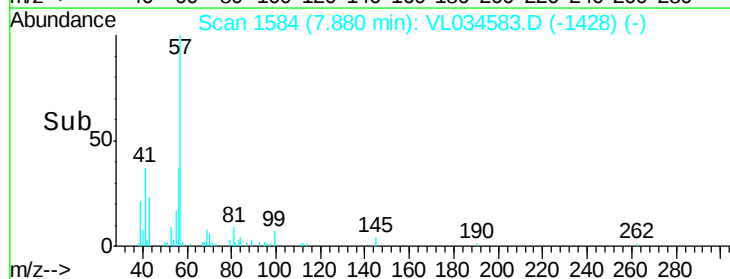
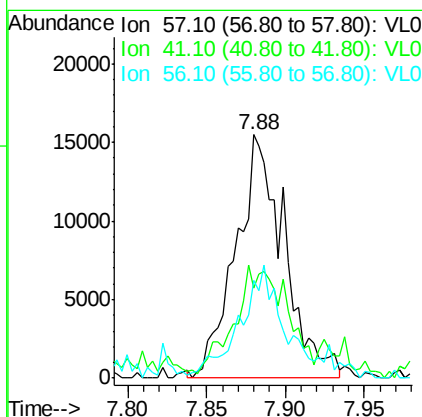
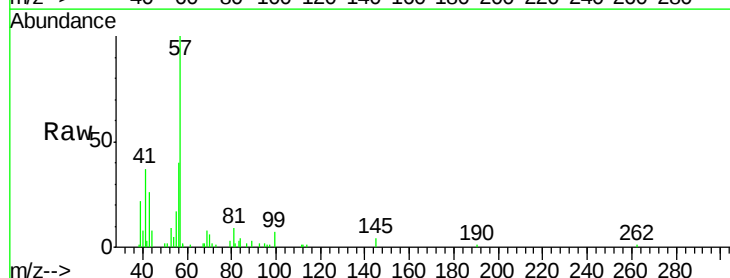
RT: 7.88 min Scan# 1584

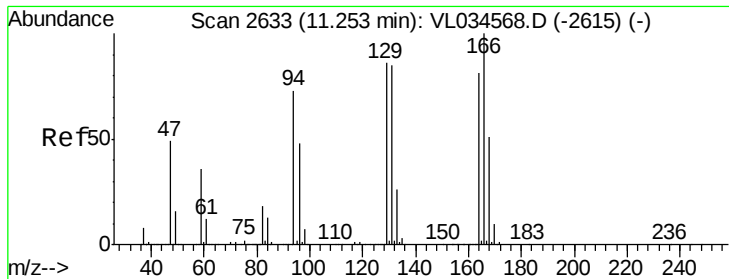
Delta R.T. 0.00 min

Lab File: VL034583.D

Acq: 4 Feb 2020 17:15

Tgt Ion:	57	Resp:	33228
Ion	Ratio	Lower	Upper
57	100		
41	60.2	28.9	43.3#
56	46.3	25.5	38.3#





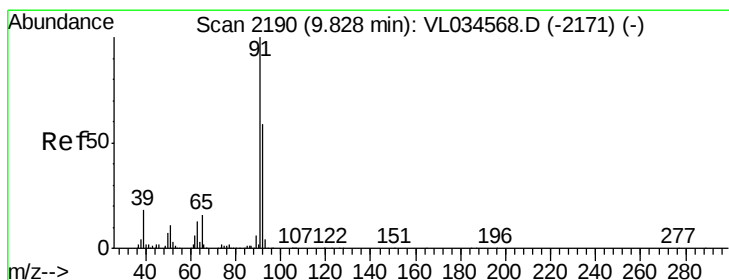
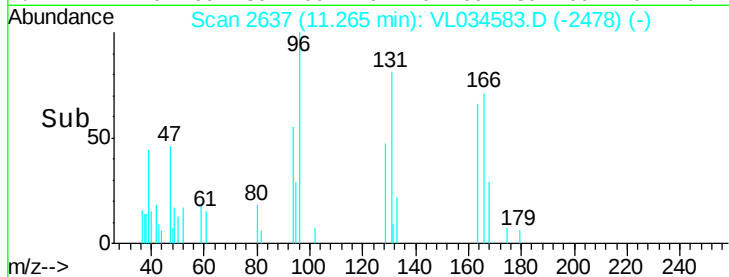
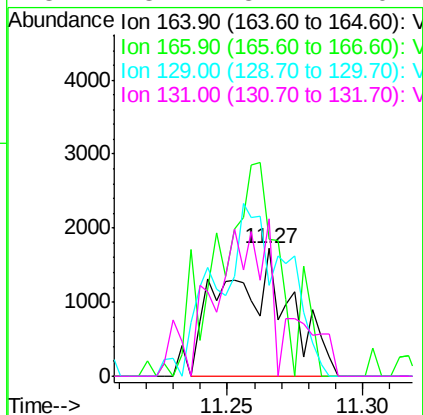
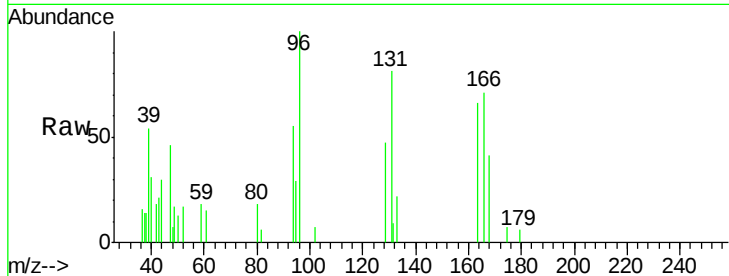
#52
Tetrachloroethene
Concen: 0.044 ppbv m
RT: 11.27 min Scan# 2637
Delta R.T. 0.01 min
Lab File: VL034583.D
Acq: 4 Feb 2020 17:15

Instrument :
MSVOA_L
ClientSampleId :
IA-2

Tot Ion	Ratio	Lower	Upper
164	100		
166	107.5	99.0	148.4
129	70.9	85.3	127.9#
131	123.2	84.2	126.2

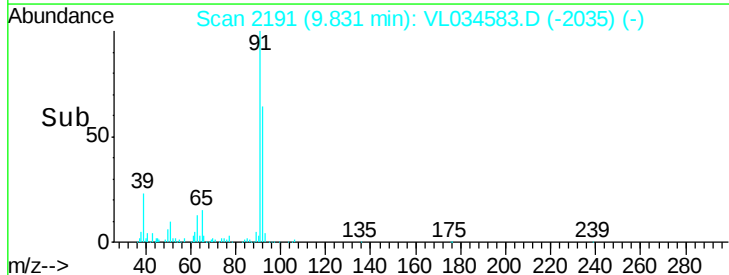
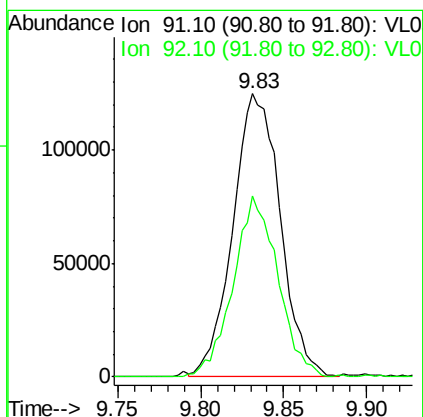
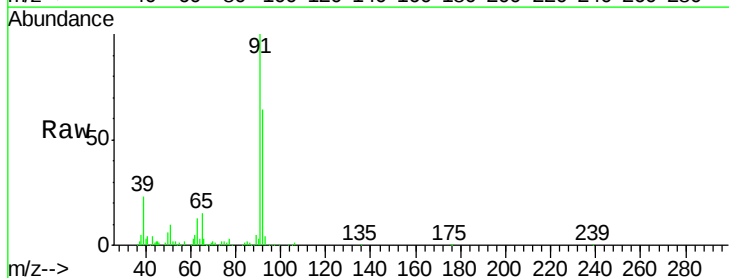
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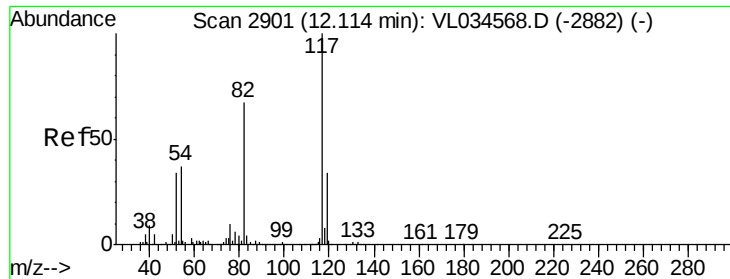
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#53
Toluene
Concen: 1.354 ppbv
RT: 9.83 min Scan# 2191
Delta R.T. 0.00 min
Lab File: VL034583.D
Acq: 4 Feb 2020 17:15

Tgt Ion	Ratio	Lower	Upper
91	100		
92	60.7	48.2	72.2





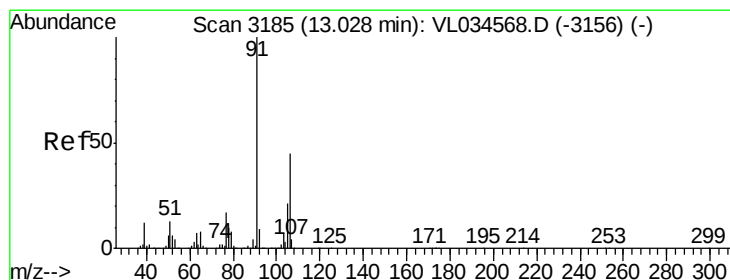
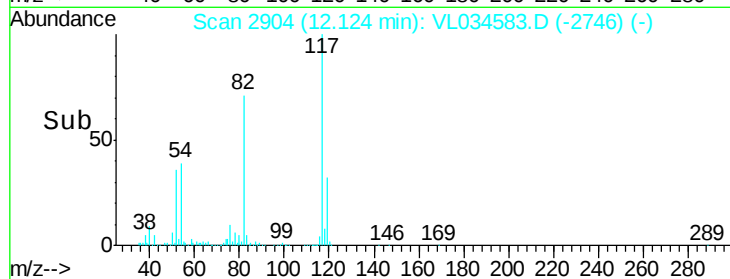
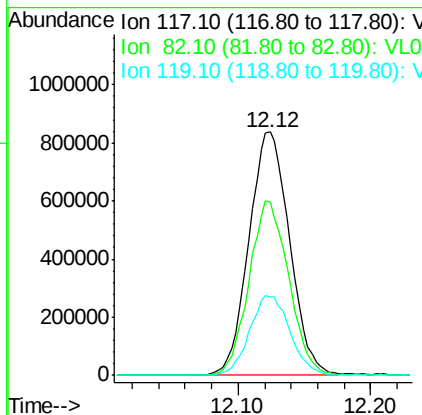
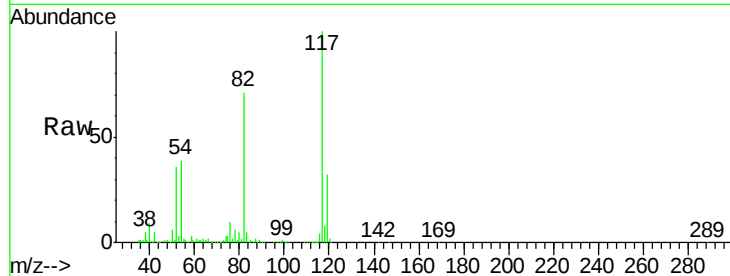
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.12 min Scan# 2904
Delta R.T. 0.01 min
Lab File: VL034583.D
Acq: 4 Feb 2020 17:15

Instrument :
MSVOA_L
ClientSampled :
IA-2

Tot Ion	Ratio	Lower	Upper
117	100		
82	70.7	54.2	81.4
119	33.0	26.1	39.1

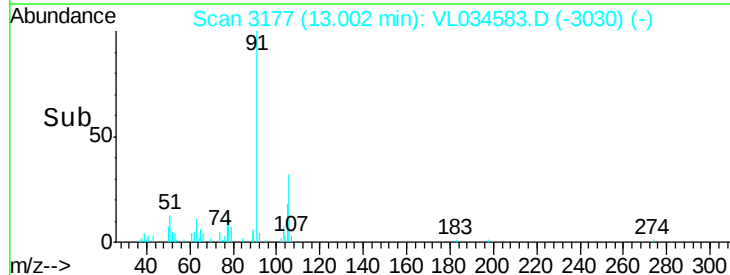
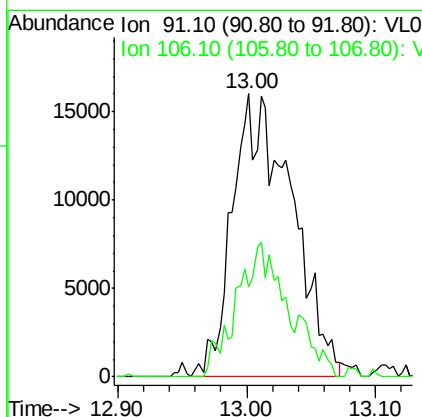
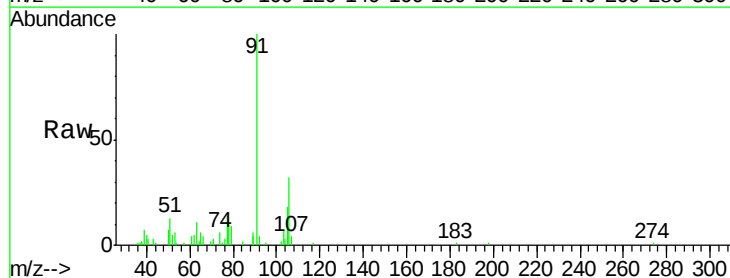
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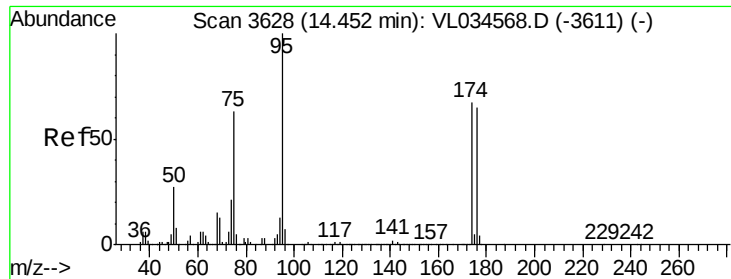
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#59
m/p-Xylene
Concen: 0.242 ppbv m
RT: 13.00 min Scan# 3177
Delta R.T. -0.03 min
Lab File: VL034583.D
Acq: 4 Feb 2020 17:15

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.3	52.9#





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.646 ppbv
 RT: 14.46 min Scan# 3631
 Delta R.T. 0.01 min
 Lab File: VL034583.D
 Acq: 4 Feb 2020 17:15

Instrument :
 MSVOA_L
 ClientSampleId :
 IA-2

Tot Ion	Ion	Ratio	Lower	Upper
95	100			
174	64.2	52.3	78.5	
175	4.6	3.8	5.6	

Manual Integrations
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