

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030520\
 Data File : VL034797.D
 Acq On : 5 Mar 2020 15:50
 Operator : SY/AP
 Sample : L1704-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1-4

Manual Integrations
 APPROVED

MMDadoda
 3/9/2020 9:18:46 AM

Quant Time: Mar 06 05:23:51 2020
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Mar 0
 QLast Update : Wed Mar 04 06:36:39 2020
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.65	49	1026438	10.00	ppbv	-0.03
33) 1,4-Difluorobenzene	7.18	114	2102272	10.00	ppbv	-0.03
55) Chlorobenzene-d5	12.10	117	2067815	10.00	ppbv	-0.04

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.44	95	1785585	10.36	ppbv	-0.04
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.01	85	88329	0.527	ppbv	94
3) Chlorodifluoromethane	2.95	51	46557m	0.398	ppbv	
4) Chloromethane	3.11	50	35555	0.564	ppbv	99
9) Propene	2.98	41	54036	1.174	ppbv	84
10) Heptane	8.12	43	12032m	0.103	ppbv	
11) Trichlorofluoromethane	3.92	101	43757	0.292	ppbv	98
13) Ethanol	3.58	45	180134m	11.422	ppbv	
15) Acetone	3.82	43	682551	5.553	ppbv	97
17) tert-Butyl alcohol	4.29	59	40584	0.419	ppbv	94
19) Isopropyl Alcohol	3.95	45	160265	2.176	ppbv #	89
20) Methylene Chloride	4.32	84	106145	2.420	ppbv #	92
26) Hexane	5.68	57	148253	1.598	ppbv #	42
34) 2-Butanone	5.24	43	39880	0.292	ppbv	98
35) Carbon Tetrachloride	7.01	117	9537m	0.060	ppbv	
36) Benzene	6.89	78	41824	0.233	ppbv #	87
53) Toluene	9.83	91	171480	0.902	ppbv	97
58) Ethyl Benzene	12.74	91	43253m	0.170	ppbv	
59) m/p-Xylene	13.00	91	132649m	0.601	ppbv	
60) o-Xylene	13.72	91	45745m	0.205	ppbv	

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

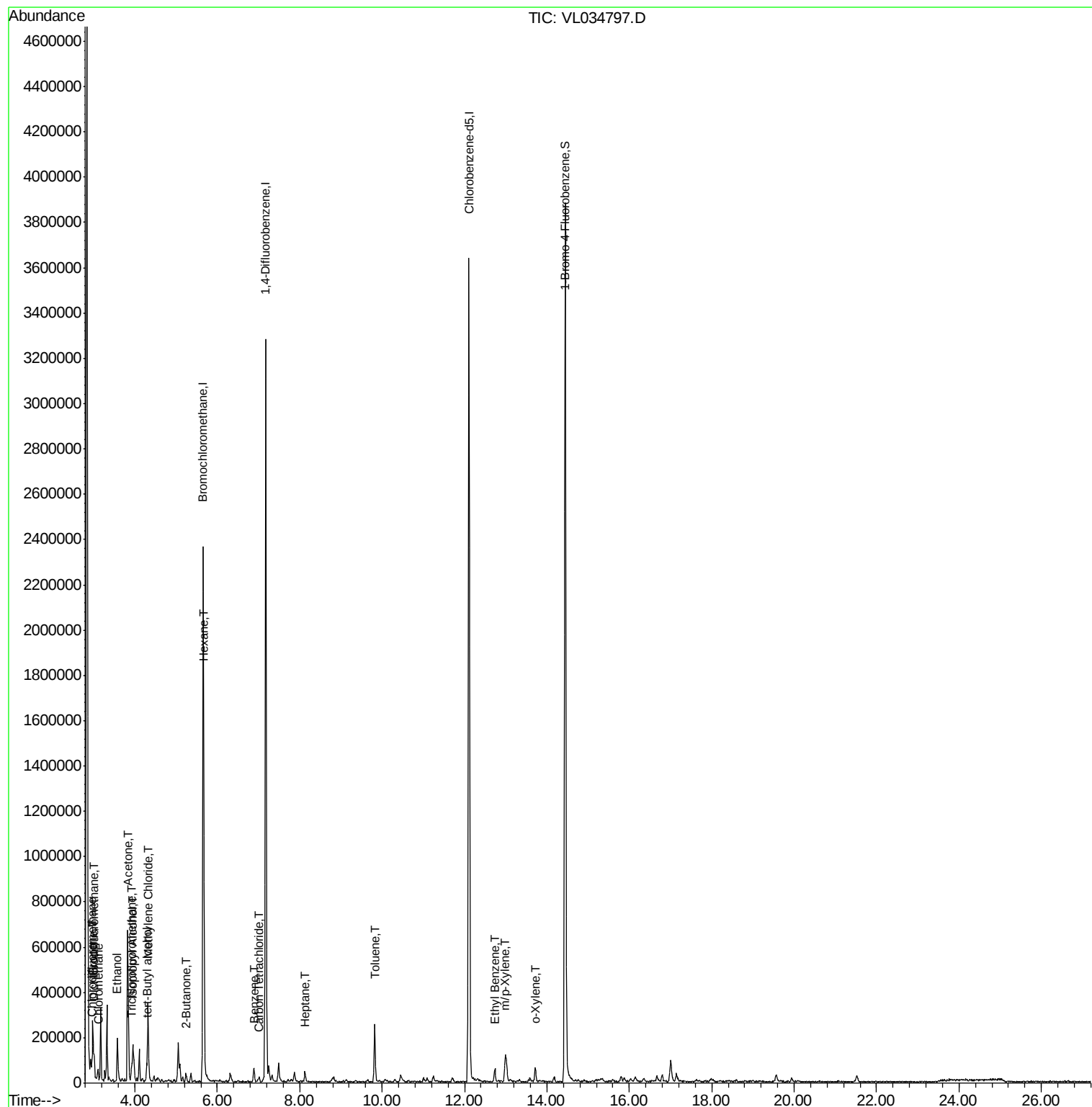
Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL030520\
Data File : VL034797.D
Acq On : 5 Mar 2020 15:50
Operator : SY/AP
Sample : L1704-07
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

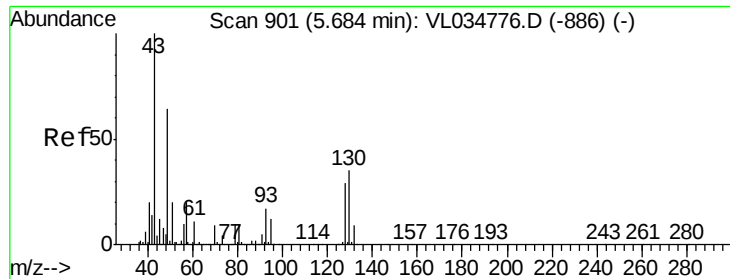
Instrument :
MSVOA_L
ClientSampleId :
A-1-4

Manual Integrations
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Quant Time: Mar 06 05:23:51 2020
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL030420AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Mar
QLast Update : Wed Mar 04 06:36:39 2020
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.65 min Scan# 892

Delta R.T. -0.03 min

Lab File: VL034797.D

Acq: 5 Mar 2020 15:50

Instrument :

MSVOA_L

ClientSampled :

A-1-4

Tot Ion: 49 Resp: 1026438

Ion Ratio Lower Upper

49 100

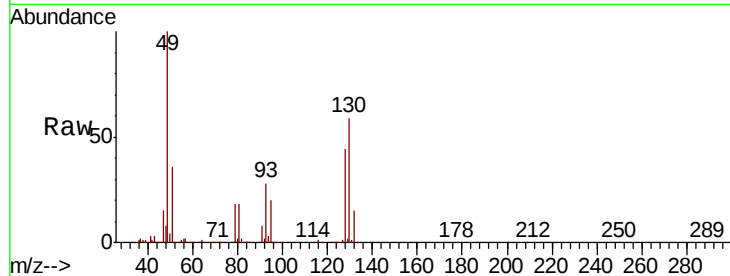
128 44.6 21.6 64.6

130 57.2 27.4 82.2

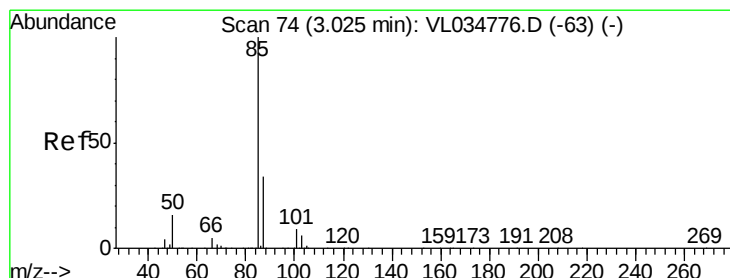
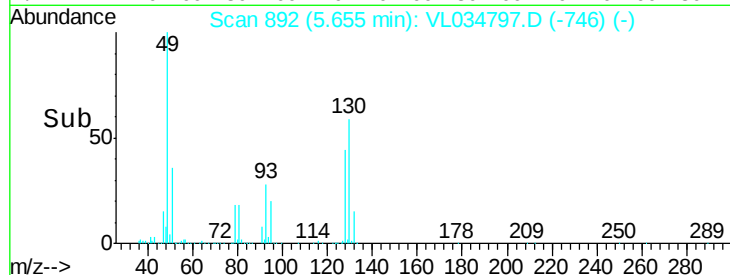
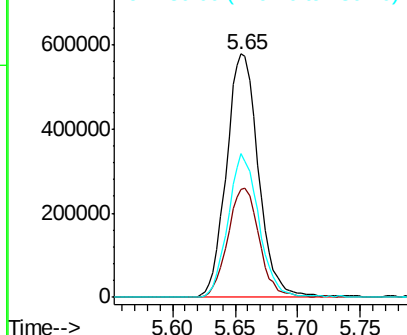
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Abundance Ion 49.10 (48.80 to 49.80): VL0
Ion 128.00 (127.70 to 128.70): V
Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.527 ppbv

RT: 3.01 min Scan# 69

Delta R.T. -0.02 min

Lab File: VL034797.D

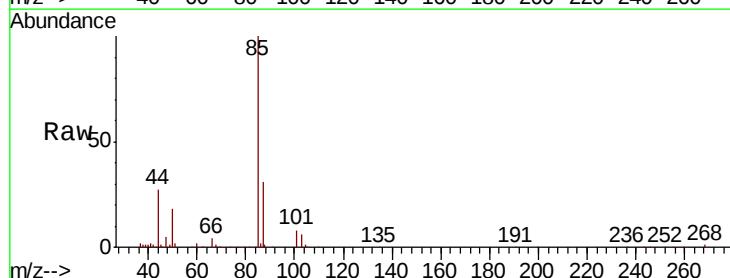
Acq: 5 Mar 2020 15:50

Tgt Ion: 85 Resp: 88329

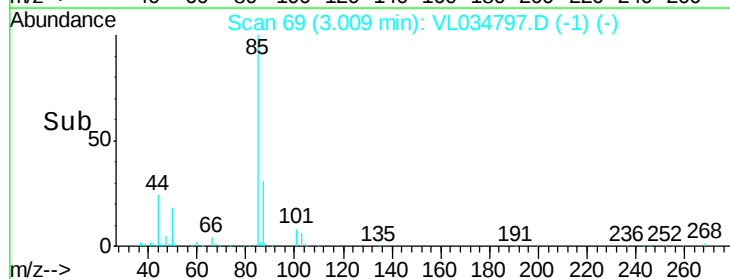
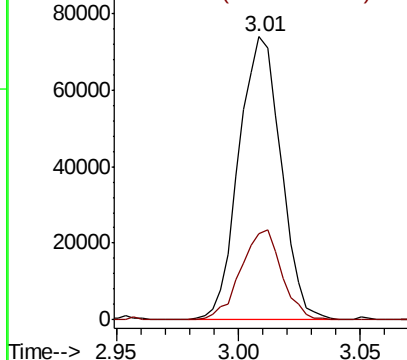
Ion Ratio Lower Upper

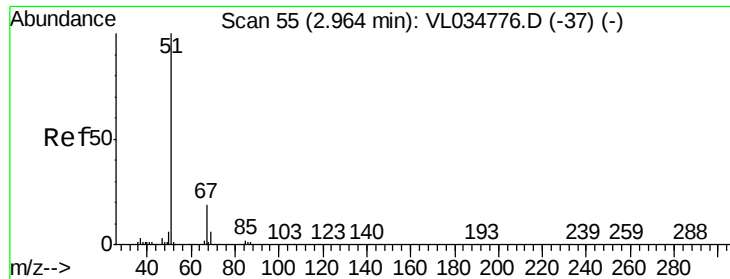
85 100

87 30.5 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#3

Chlorodifluoromethane

Concen: 0.398 ppbv

RT: 2.95 min Scan# 50

Delta R.T. -0.02 min

Lab File: VL034797.D

Acq: 5 Mar 2020 15:50

Instrument :

MSVOA_L

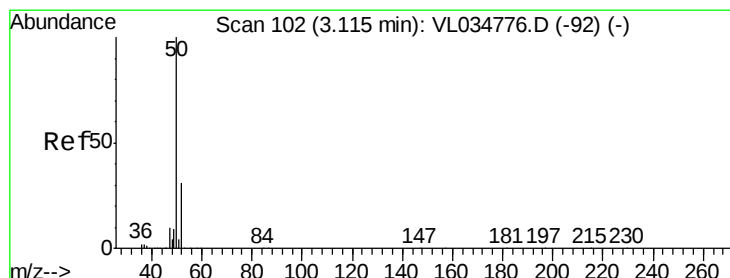
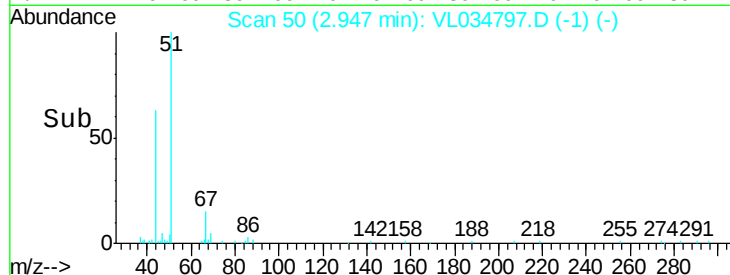
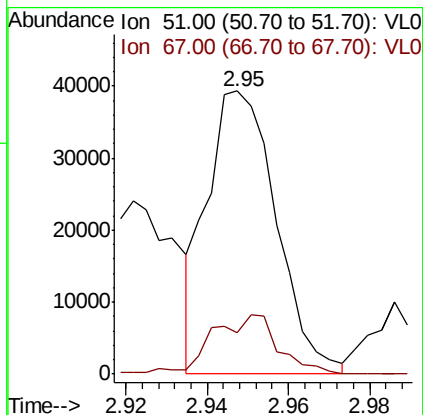
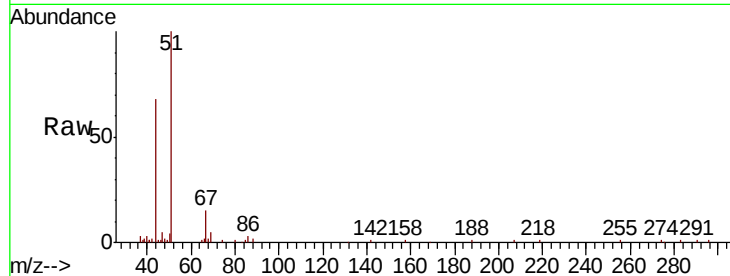
ClientSampled :

A-1-4

Tot Ion	51	Resp	46557
Ion	Ratio	Lower	Upper
51	100		
67	20.4	15.3	22.9

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#4

Chloromethane

Concen: 0.564 ppbv

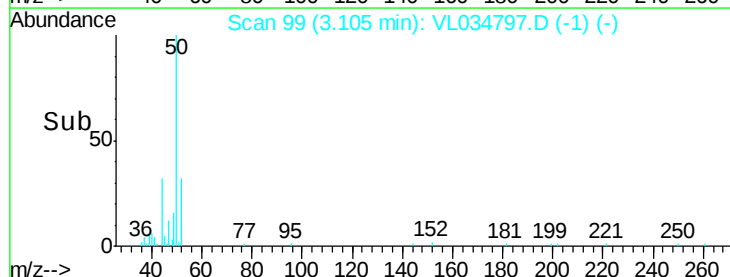
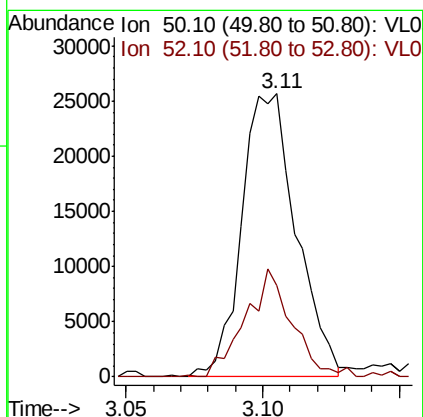
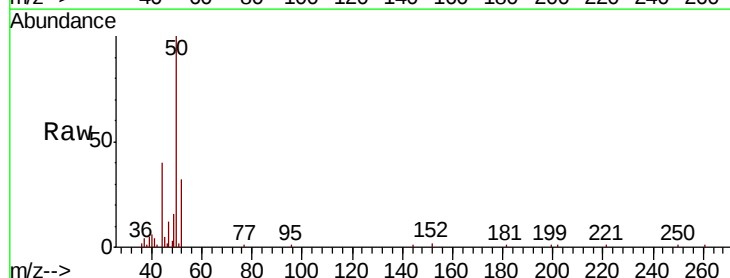
RT: 3.11 min Scan# 99

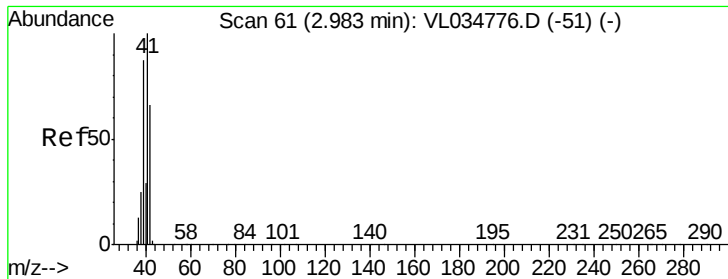
Delta R.T. -0.01 min

Lab File: VL034797.D

Acq: 5 Mar 2020 15:50

Tgt Ion	50	Resp	35555
Ion	Ratio	Lower	Upper
50	100		
52	30.7	25.0	37.4





#9

Propene

Concen: 1.174 ppbv

RT: 2.98 min Scan# 60

Delta R.T. -0.00 min

Lab File: VL034797.D

Acq: 5 Mar 2020 15:50

Instrument :

MSVOA_L

ClientSampleId :

A-1-4

Tot Ion: 41 Resp: 54036

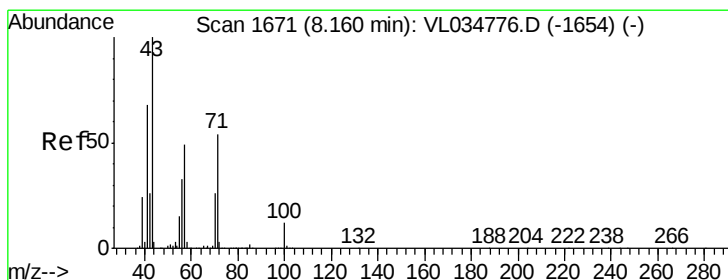
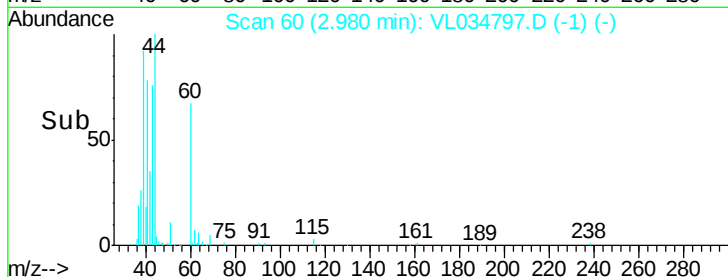
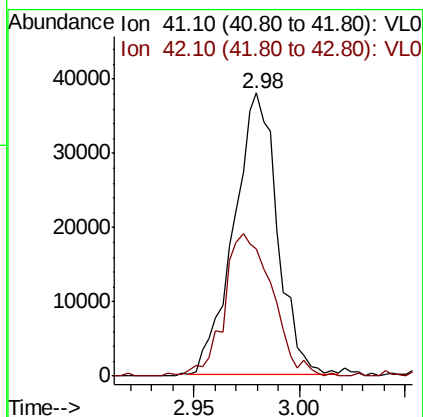
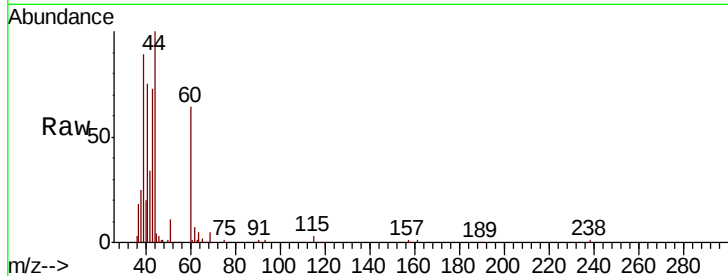
Ion Ratio Lower Upper

41 100

42 56.3 55.6 83.4

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#10

Heptane

Concen: 0.103 ppbv m

RT: 8.12 min Scan# 1660

Delta R.T. -0.04 min

Lab File: VL034797.D

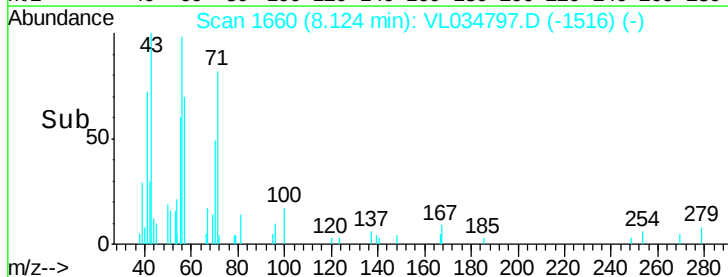
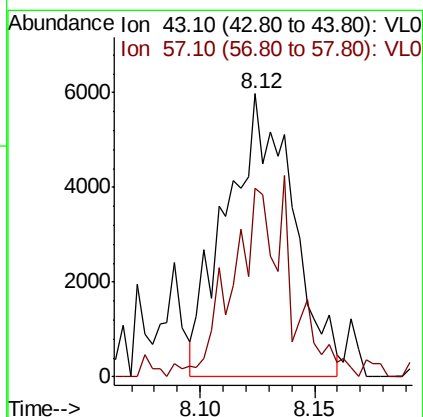
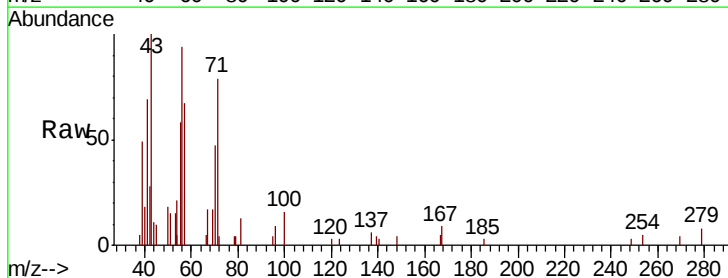
Acq: 5 Mar 2020 15:50

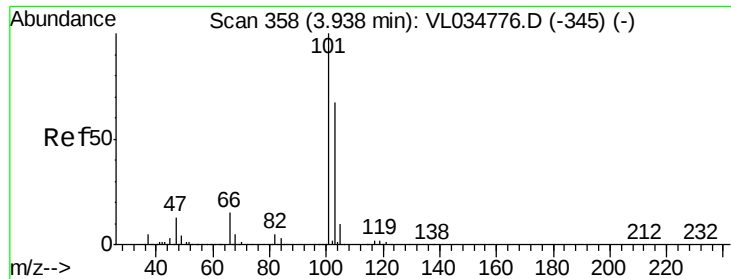
Tgt Ion: 43 Resp: 12032

Ion Ratio Lower Upper

43 100

57 0.0 40.5 60.7#





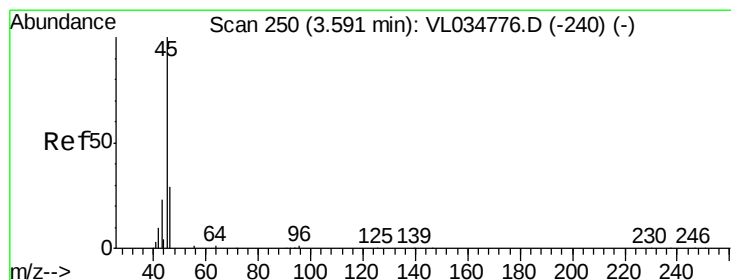
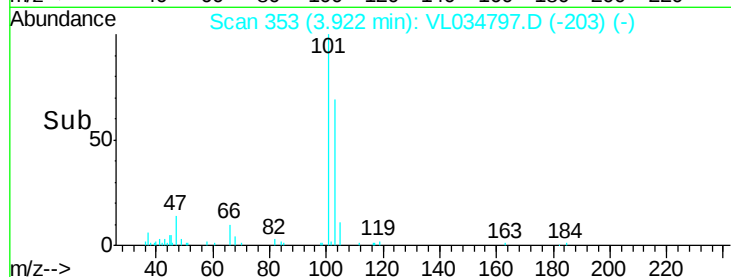
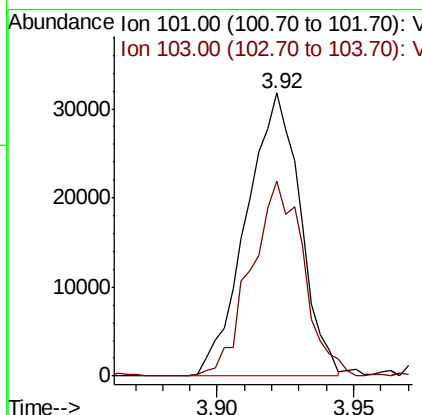
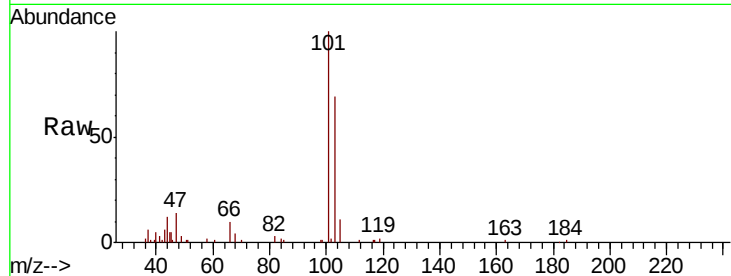
#11
 Trichlorofluoromethane
 Concen: 0.292 ppbv
 RT: 3.92 min Scan# 353
 Delta R.T. -0.02 min
 Lab File: VL034797.D
 Acq: 5 Mar 2020 15:50

Instrument :
 MSVOA_L
 ClientSampled :
 A-1-4

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		43757		
103	68.8	53.6	80.4		

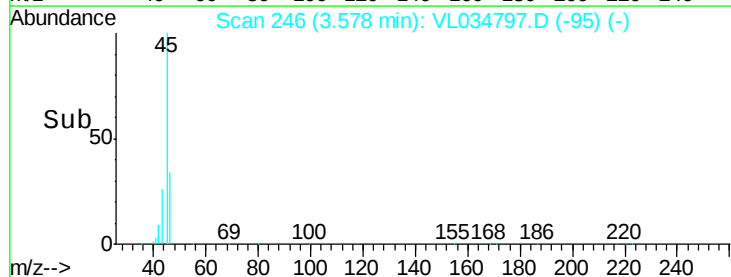
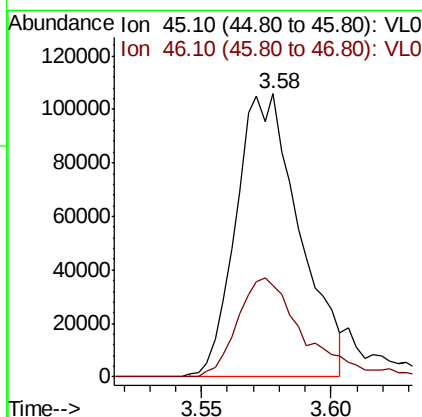
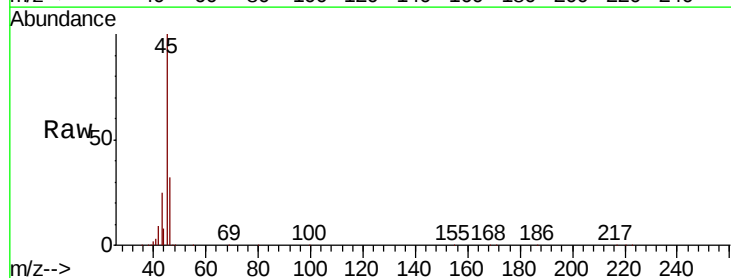
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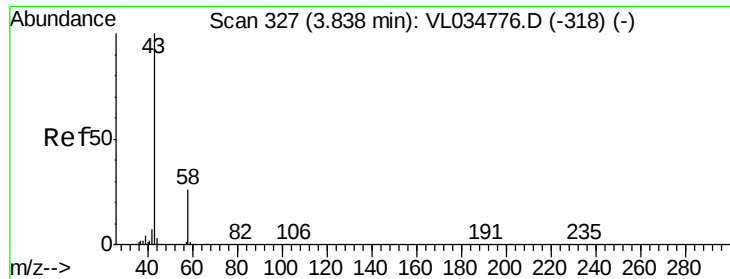
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#13
 Ethanol
 Concen: 11.422 ppbv m
 RT: 3.58 min Scan# 246
 Delta R.T. -0.01 min
 Lab File: VL034797.D
 Acq: 5 Mar 2020 15:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
45	100		180134		
46	0.0	14.7	58.9#		





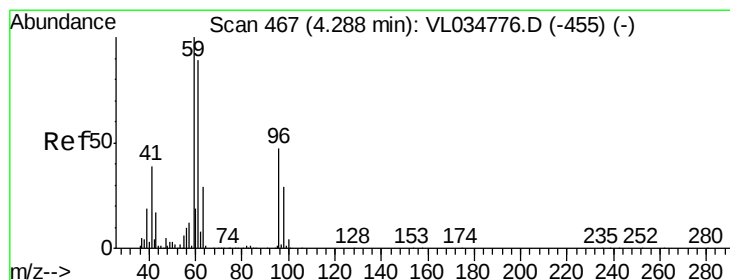
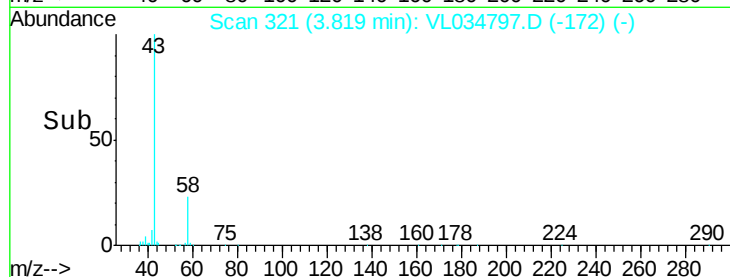
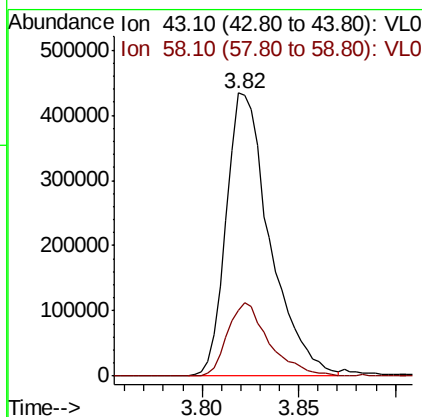
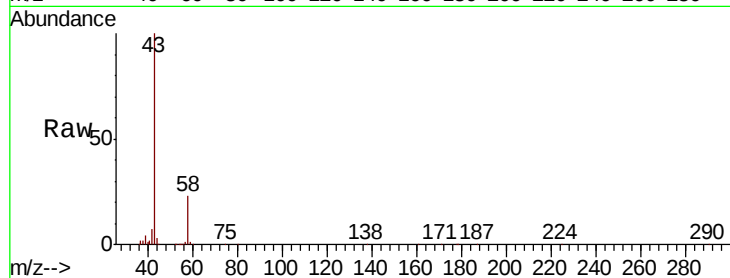
#15
Acetone
Concen: 5.553 ppbv
RT: 3.82 min Scan# 321
Delta R.T. -0.02 min
Lab File: VL034797.D
Acq: 5 Mar 2020 15:50

Instrument :
MSVOA_L
ClientSampleId :
A-1-4

Tot Ion	Ratio	Lower	Upper
43	100		
58	24.9	21.0	31.6

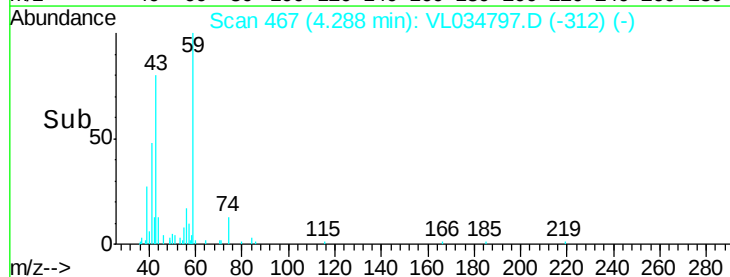
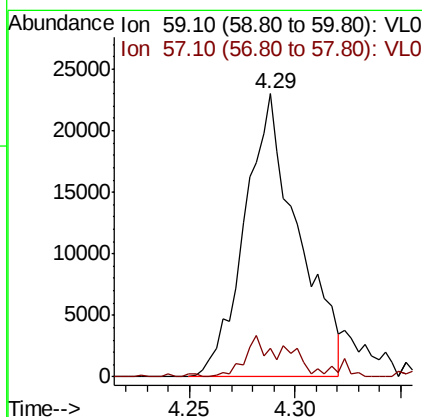
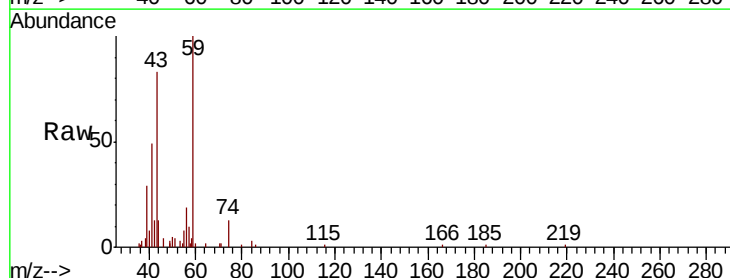
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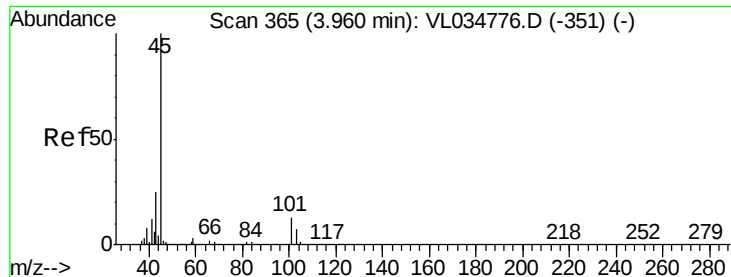
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3/9/2020 9:18:46 AM



#17
tert-Butyl alcohol
Concen: 0.419 ppbv
RT: 4.29 min Scan# 467
Delta R.T. -0.00 min
Lab File: VL034797.D
Acq: 5 Mar 2020 15:50

Tgt Ion	Ratio	Lower	Upper
59	100		
57	12.9	8.6	13.0





#19

Isopropyl Alcohol

Concen: 2.176 ppbv

RT: 3.95 min Scan# 361

Delta R.T. -0.01 min

Lab File: VL034797.D

Acq: 5 Mar 2020 15:50

Instrument :

MSVOA_L

ClientSampleId :

A-1-4

Tot Ion: 45 Resp: 160265

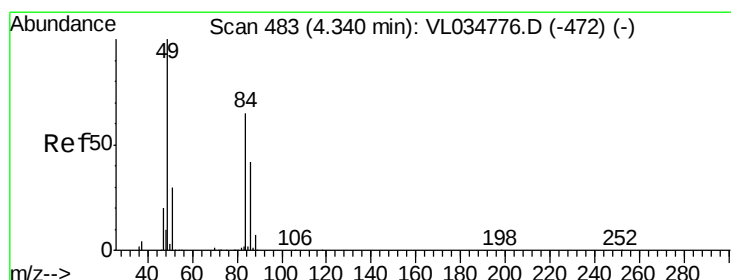
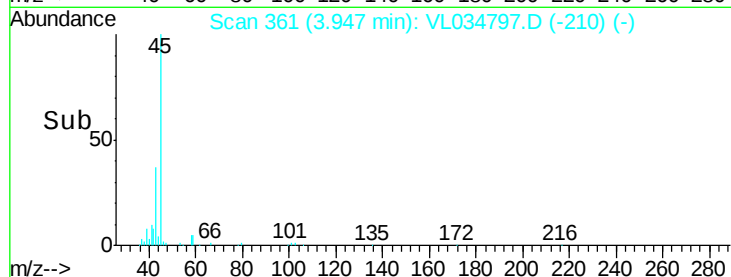
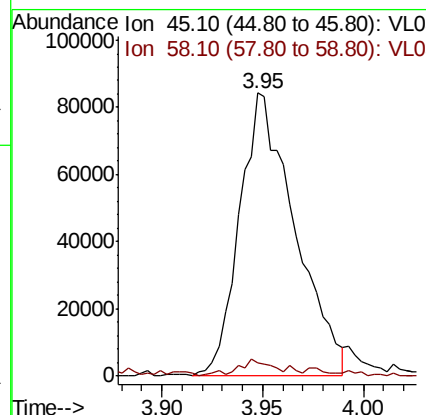
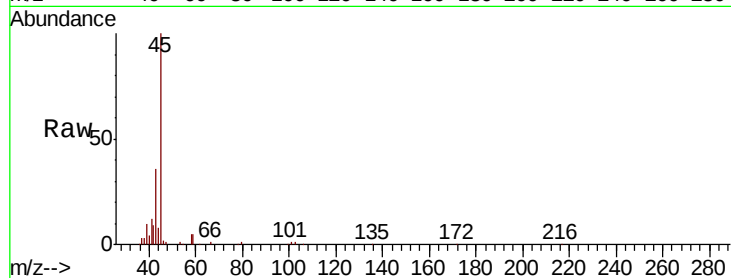
Ion Ratio Lower Upper

45 100

58 6.0 1.8 2.8#

Manual Integrations
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#20

Methylene Chloride

Concen: 2.420 ppbv

RT: 4.32 min Scan# 477

Delta R.T. -0.02 min

Lab File: VL034797.D

Acq: 5 Mar 2020 15:50

Tgt Ion: 84 Resp: 106145

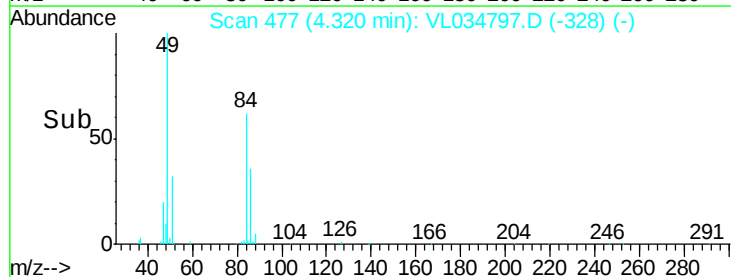
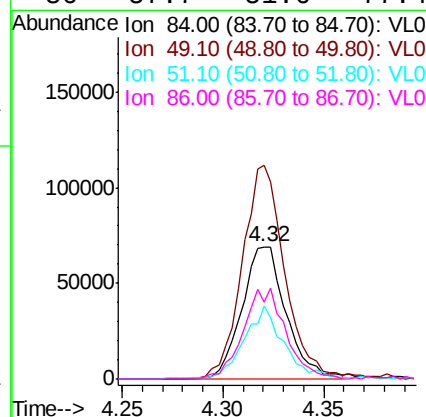
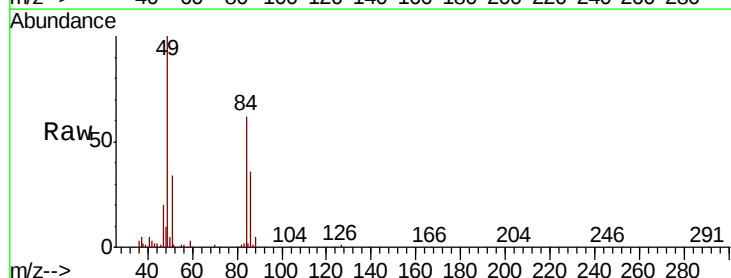
Ion Ratio Lower Upper

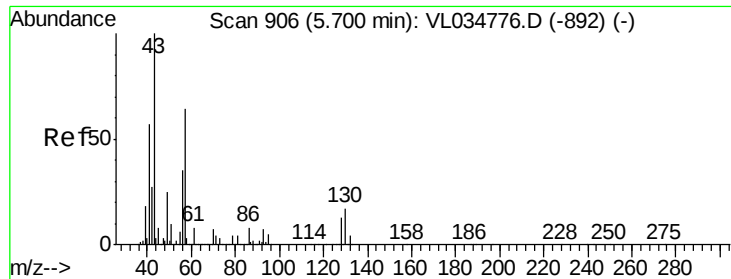
84 100

49 160.8 123.2 184.8

51 56.3 37.4 56.2#

86 57.7 51.6 77.4





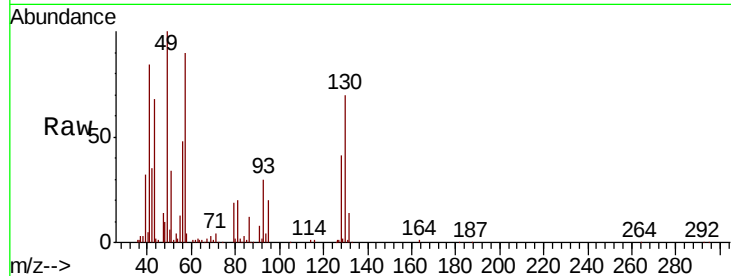
#26
Hexane
Concen: 1.598 ppbv
RT: 5.68 min Scan# 899
Delta R.T. -0.02 min
Lab File: VL034797.D
Acq: 5 Mar 2020 15:50

Instrument :
MSVOA_L
ClientSampleId :
A-1-4

Tot Ion	Ratio	Lower	Upper
57	100		
41	107.1	72.0	108.0
43	84.0	179.1	268.7#
56	60.8	42.6	63.8

Manual Integrations
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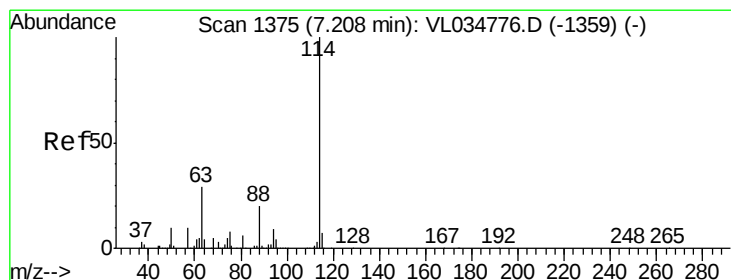
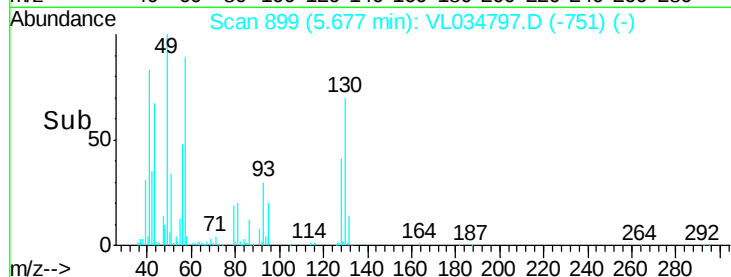
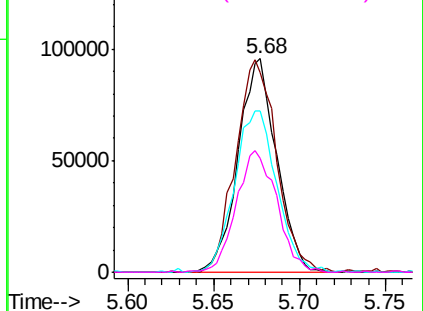
Abundance

Ion 57.10 (56.80 to 57.80): VL0

Ion 41.10 (40.80 to 41.80): VL0

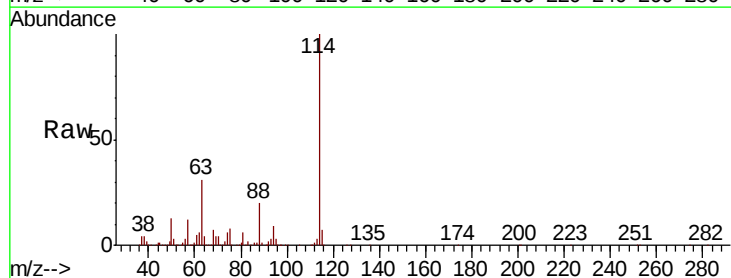
Ion 43.10 (42.80 to 43.80): VL0

Ion 56.10 (55.80 to 56.80): VL0



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.03 min
Lab File: VL034797.D
Acq: 5 Mar 2020 15:50

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.6	23.6	35.4
88	19.6	15.8	23.8

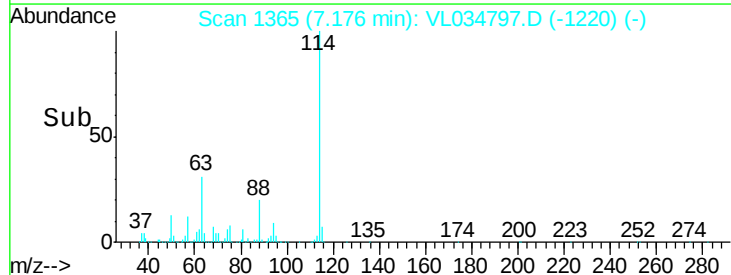
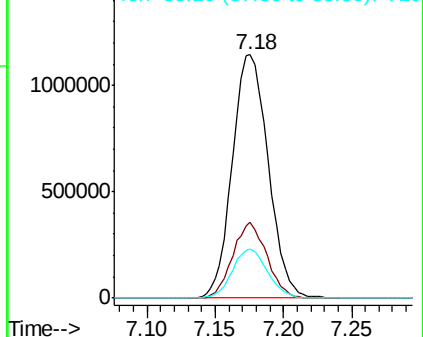


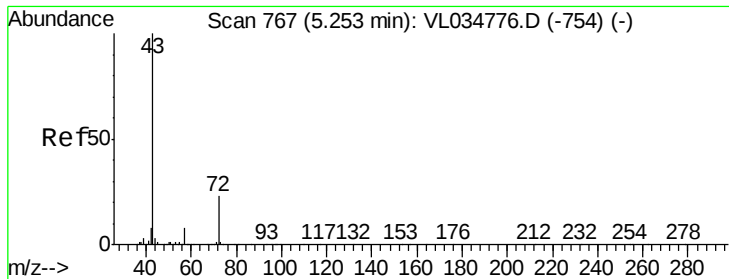
Abundance

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: 0.292 ppbv

RT: 5.24 min Scan# 763

Delta R.T. -0.01 min

Lab File: VL034797.D

Acq: 5 Mar 2020 15:50

Instrument :

MSVOA_L

ClientSampled :

A-1-4

Tot Ion: 43 Resp: 39880

Ion Ratio Lower Upper

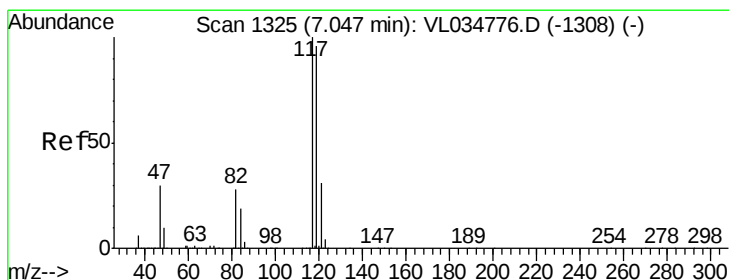
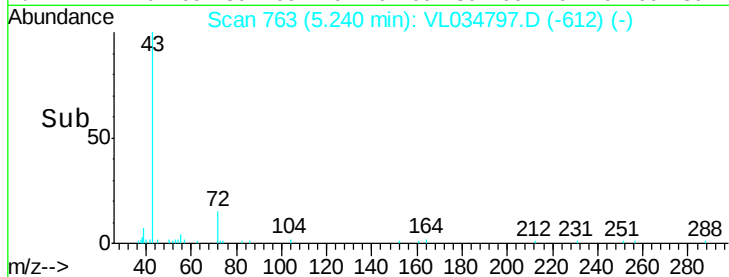
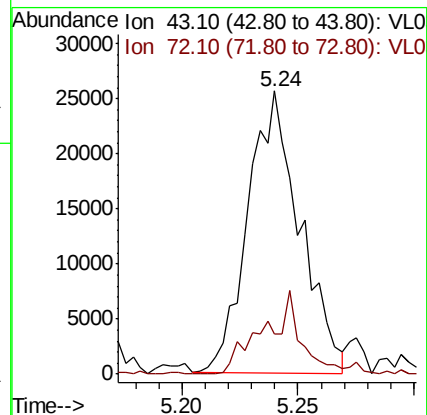
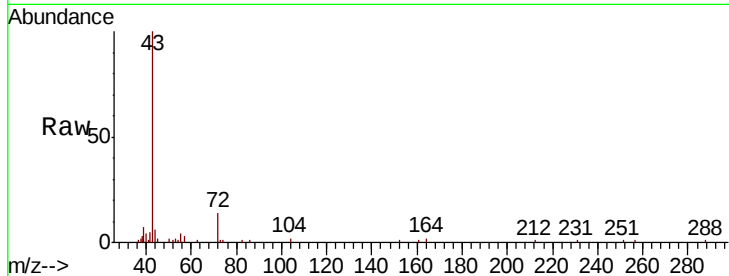
43 100

72 22.9 17.5 26.3

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#35

Carbon Tetrachloride

Concen: 0.060 ppbv m

RT: 7.01 min Scan# 1315

Delta R.T. -0.03 min

Lab File: VL034797.D

Acq: 5 Mar 2020 15:50

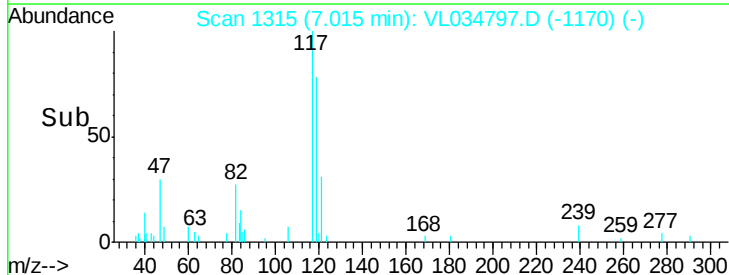
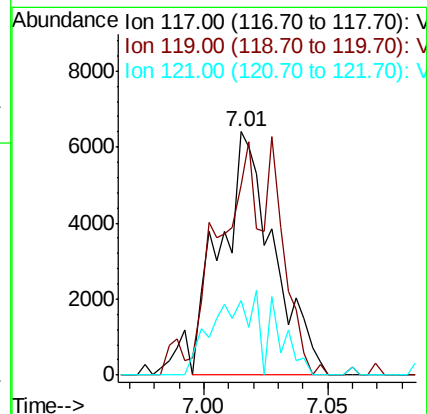
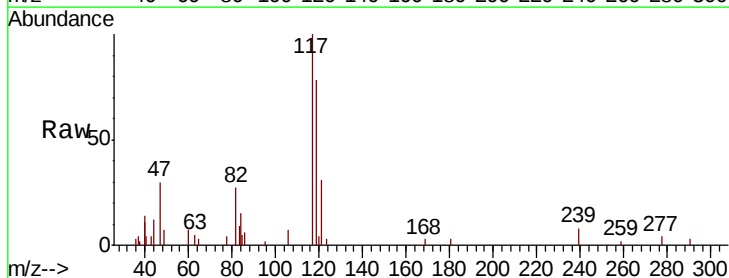
Tgt Ion: 117 Resp: 9537

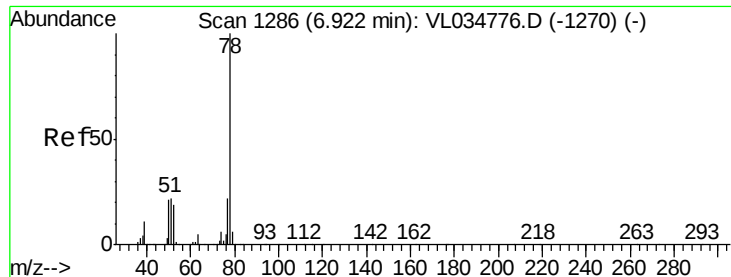
Ion Ratio Lower Upper

117 100

119 78.1 76.8 115.2

121 30.6 24.6 37.0





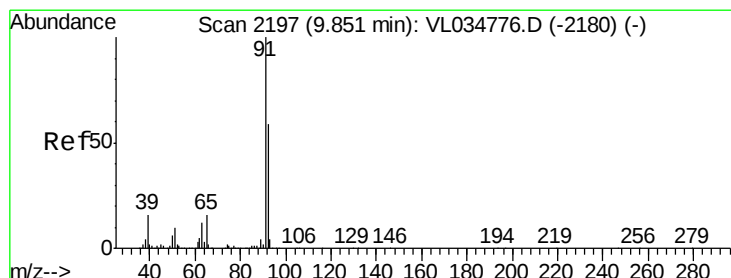
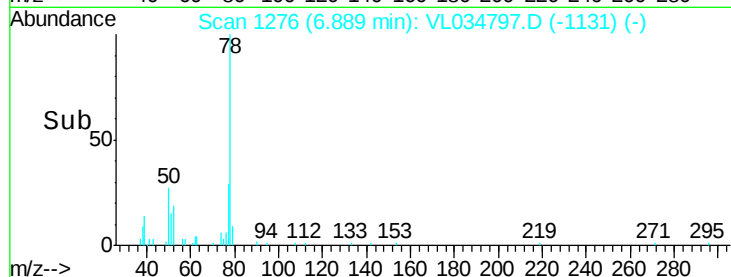
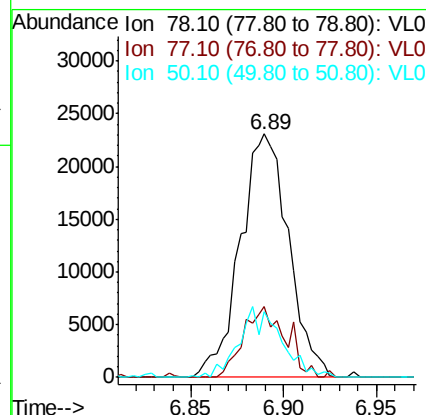
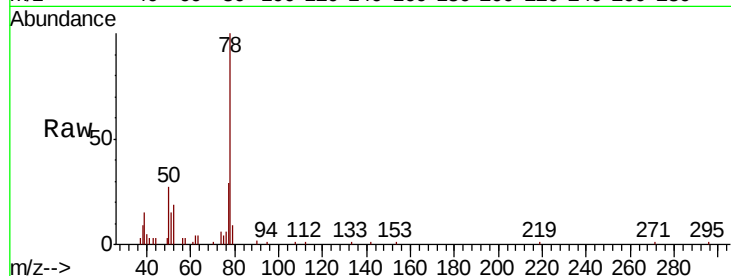
#36
Benzene
Concen: 0.233 ppbv
RT: 6.89 min Scan# 1276
Delta R.T. -0.03 min
Lab File: VL034797.D
Acq: 5 Mar 2020 15:50

Instrument :
MSVOA_L
ClientSampleId :
A-1-4

Tot Ion	Ratio	Lower	Upper
78	100		
77	29.0	18.0	27.0#
50	26.8	16.9	25.3#

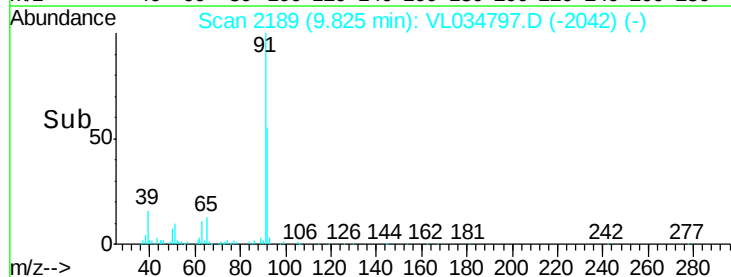
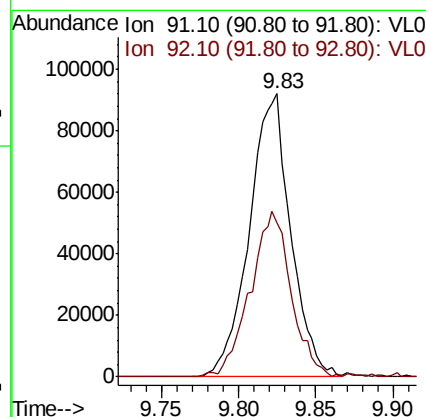
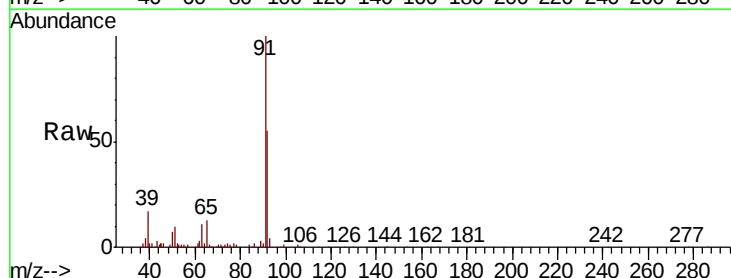
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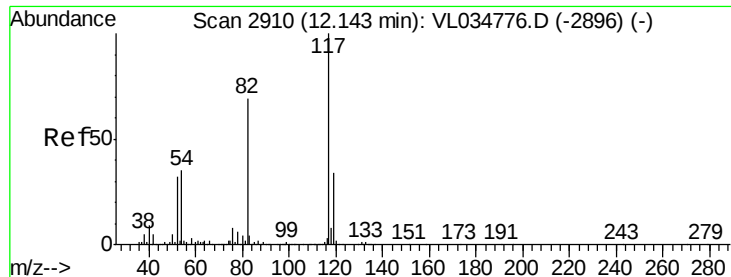
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#53
Toluene
Concen: 0.902 ppbv
RT: 9.83 min Scan# 2189
Delta R.T. -0.03 min
Lab File: VL034797.D
Acq: 5 Mar 2020 15:50

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.3	48.2	72.2





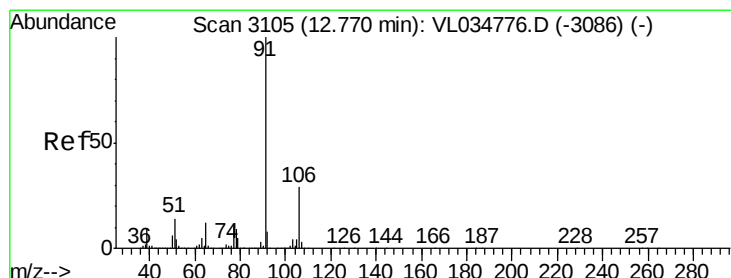
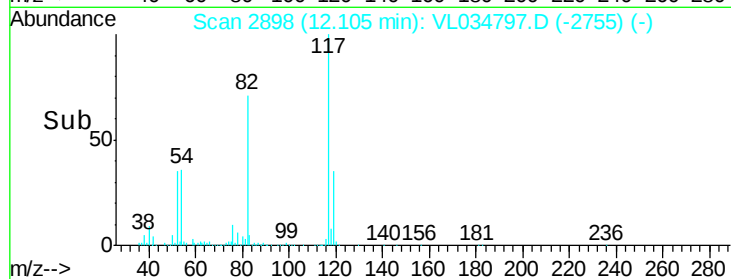
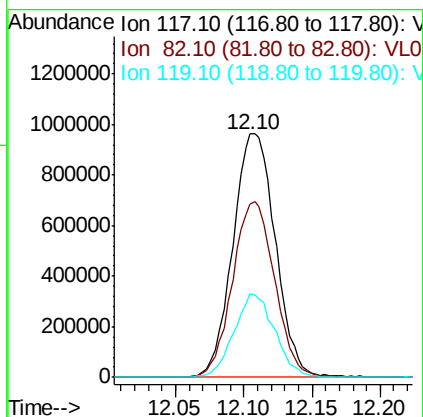
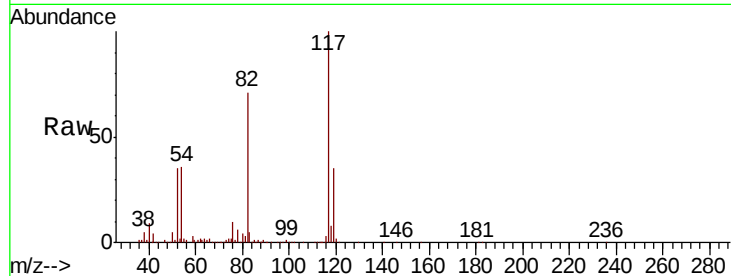
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.10 min Scan# 2898
Delta R.T. -0.04 min
Lab File: VL034797.D
Acq: 5 Mar 2020 15:50

Instrument :
MSVOA_L
ClientSampled :
A-1-4

Tot Ion	Ratio	Lower	Upper
117	100		
82	72.2	53.9	80.9
119	33.1	25.0	37.4

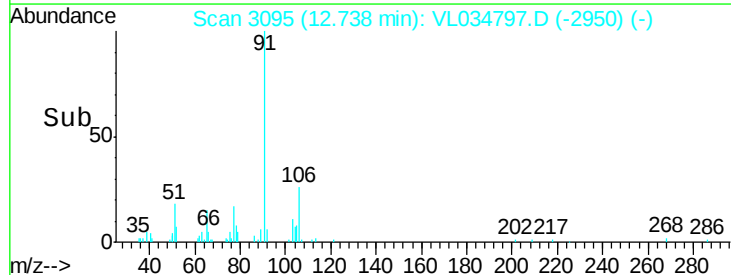
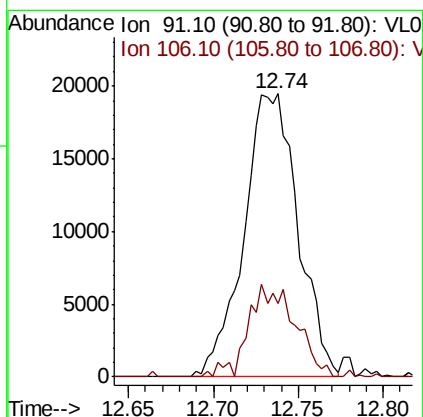
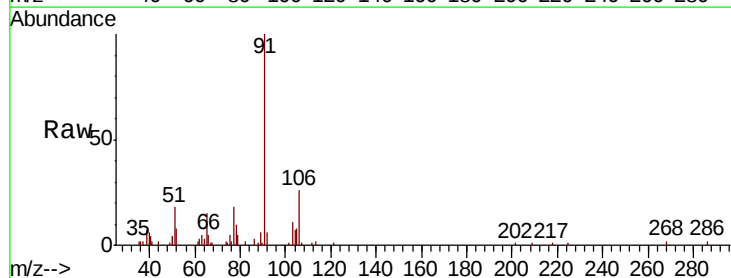
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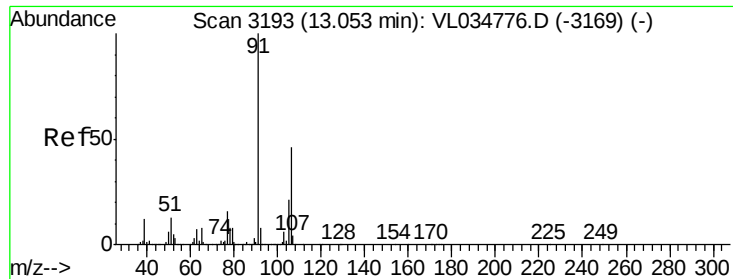
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#58
Ethyl Benzene
Concen: 0.170 ppbv m
RT: 12.74 min Scan# 3095
Delta R.T. -0.03 min
Lab File: VL034797.D
Acq: 5 Mar 2020 15:50

Tgt Ion	Ratio	Lower	Upper
91	100		
106	25.8	22.8	34.2





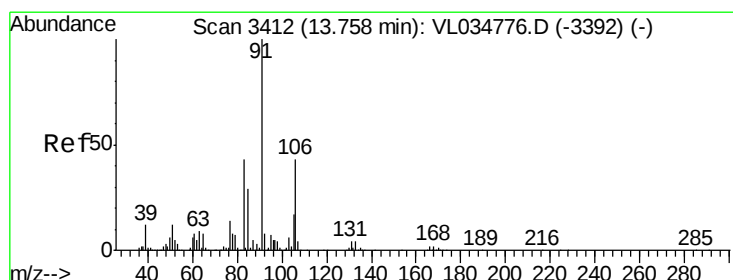
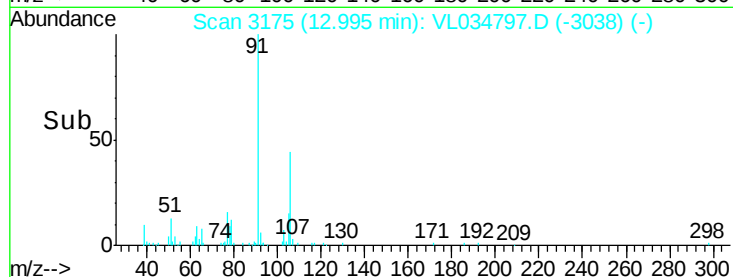
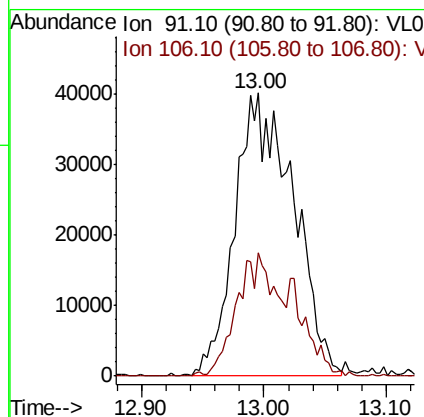
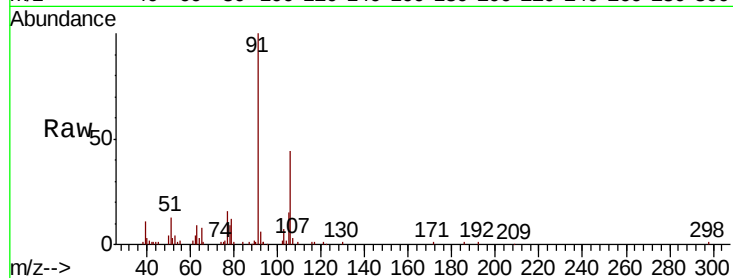
#59
m/p-Xylene
Concen: 0.601 ppbv m
RT: 13.00 min Scan# 3175
Delta R.T. -0.06 min
Lab File: VL034797.D
Acq: 5 Mar 2020 15:50

Instrument :
MSVOA_L
ClientSampled :
A-1-4

Tot Ion: 91 Resp: 132649
Ion Ratio Lower Upper
91 100
106 0.0 35.8 53.8#

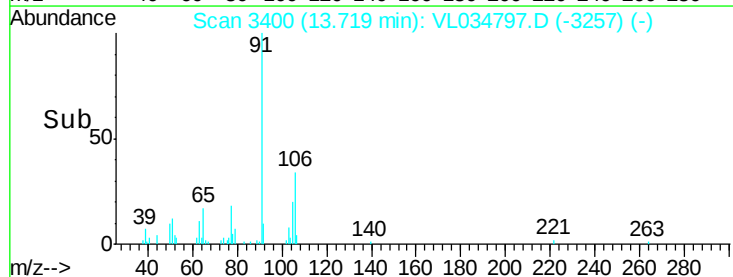
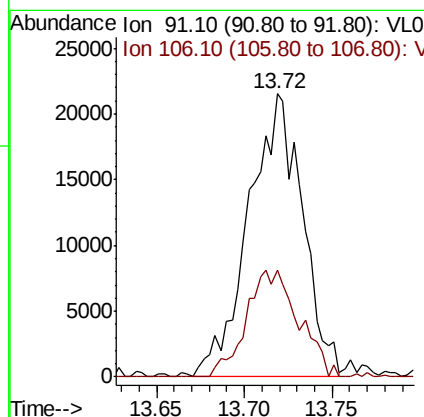
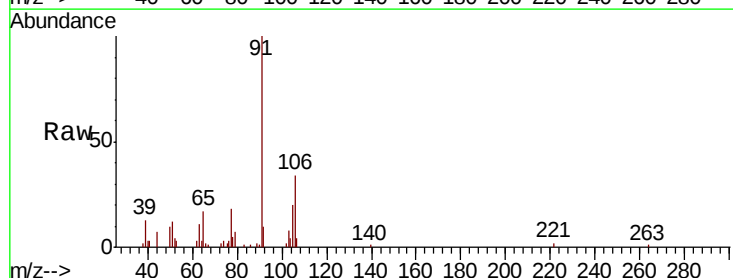
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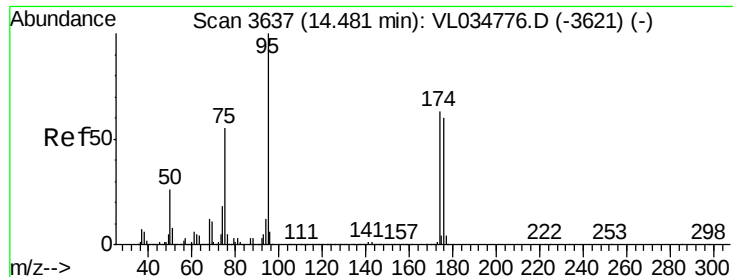
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#60
o-Xylene
Concen: 0.205 ppbv m
RT: 13.72 min Scan# 3400
Delta R.T. -0.04 min
Lab File: VL034797.D
Acq: 5 Mar 2020 15:50

Tgt Ion: 91 Resp: 45745
Ion Ratio Lower Upper
91 100
106 37.0 21.7 65.1





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.356 ppbv
 RT: 14.44 min Scan# 3625
 Delta R.T. -0.04 min
 Lab File: VL034797.D
 Acq: 5 Mar 2020 15:50

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1-4

Tot Ion: 95 Resp: 1785585
 Ion Ratio Lower Upper
 95 100
 174 62.8 50.6 76.0
 175 4.6 3.8 5.6

Manual Integrations
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