

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL111919\
 Data File : VL034389.D
 Acq On : 19 Nov 2019 21:35
 Operator : SY/AP
 Sample : K5924-01
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Manual Integrations
 APPROVED

MMDadoda
 11/20/2019 3:53:57 PM

Quant Time: Nov 20 05:54:44 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LWed Nov 20
 QLast Update : Wed Nov 20 03:30:54 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	962781	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	1868964	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1830736	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.47	95	1585364	10.29	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.90%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	324383	1.862	ppbv	90
3) Chlorodifluoromethane	2.96	51	81850m	0.681	ppbv	
4) Chloromethane	3.11	50	24443	0.345	ppbv	97
9) Propene	3.00	41	159088m	2.983	ppbv	
11) Trichlorofluoromethane	3.94	101	35176	0.203	ppbv	93
13) Ethanol	3.59	45	1588367	101.685	ppbv	97
15) Acetone	3.83	43	801798	5.816	ppbv	97
19) Isopropyl Alcohol	3.96	45	1399992	13.962	ppbv	100
20) Methylene Chloride	4.34	84	57461	1.175	ppbv	88
26) Hexane	5.70	57	75040	0.710	ppbv #	50
31) cis-1,2-Dichloroethene	5.56	61	363714	3.329	ppbv	95
34) 2-Butanone	5.26	43	26661	0.173	ppbv	99
35) Carbon Tetrachloride	7.05	117	9869	0.061	ppbv #	54
36) Benzene	6.91	78	28386m	0.152	ppbv	
38) Trichloroethene	7.87	130	134924m	1.760	ppbv	
52) Tetrachloroethene	11.29	164	8836828	109.317	ppbv	86
53) Toluene	9.85	91	81810	0.386	ppbv	97
59) m/p-Xylene	13.02	91	27829m	0.113	ppbv	
62) Isopropylbenzene	14.73	105	40586m	0.126	ppbv	
74) 1,2,4-Trimethylbenzene	16.83	105	56612m	0.194	ppbv	

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

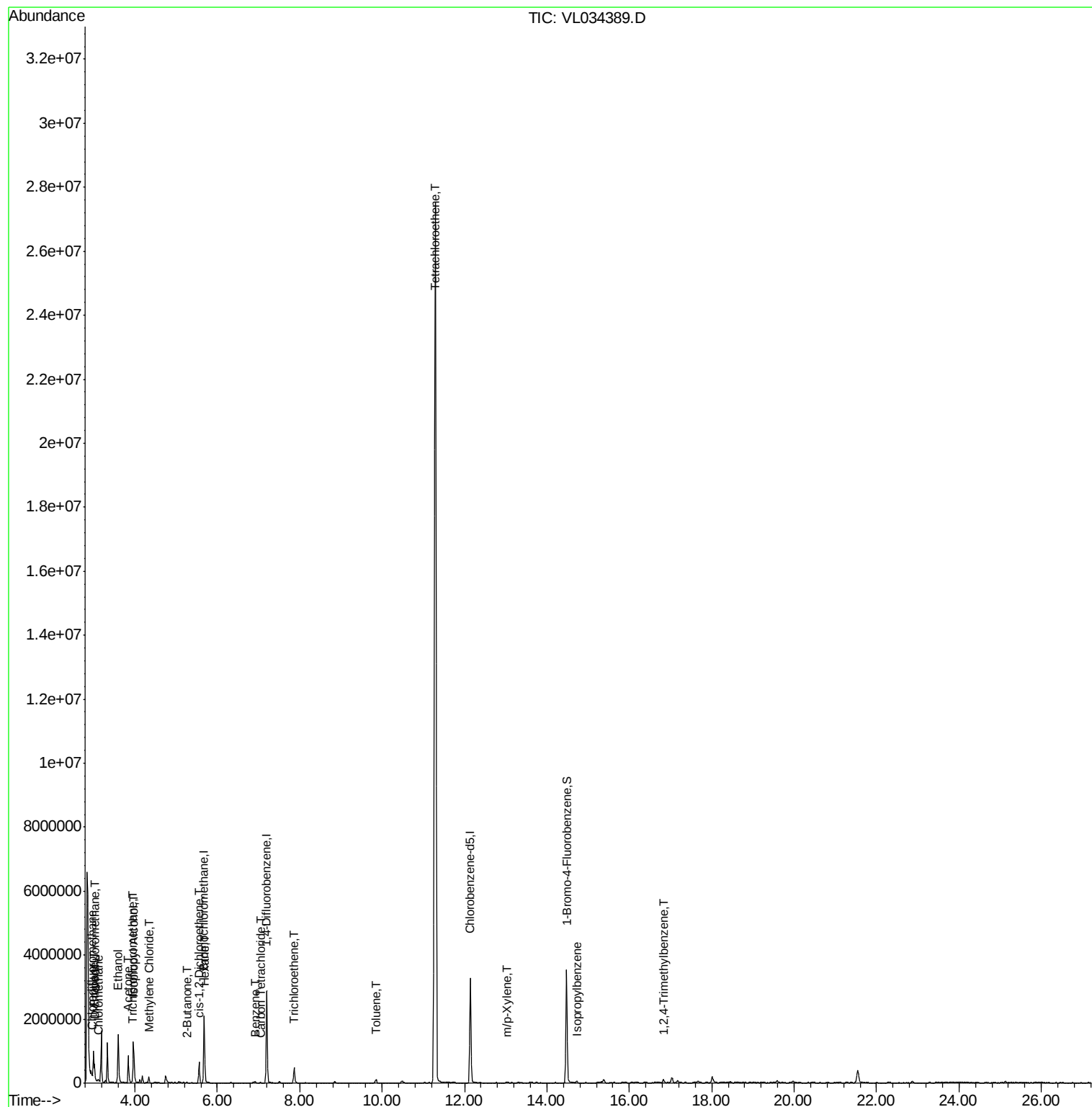
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL111919\
Data File : VL034389.D
Acq On : 19 Nov 2019 21:35
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Quant Time: Nov 20 05:54:44 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Nov
QLast Update : Wed Nov 20 03:30:54 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.68 min Scan# 899

Delta R.T. -0.01 min

Lab File: VL034389.D

Acq: 19 Nov 2019 21:35

Instrument :

MSVOA_L

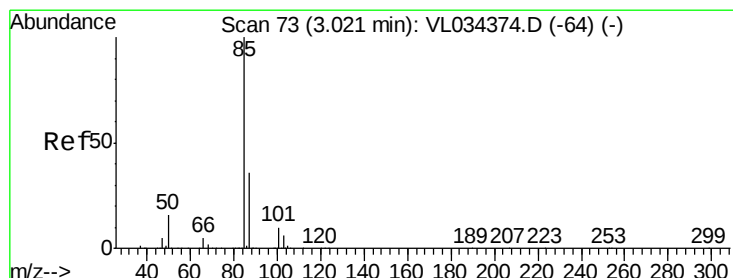
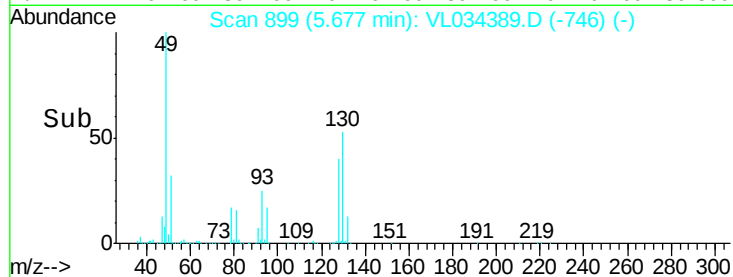
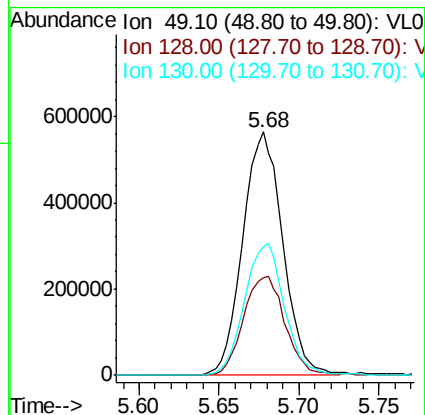
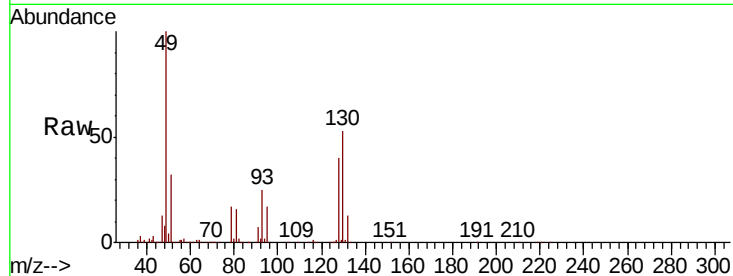
ClientSampled :

IA1

Tot Ion:	49	Resp:	962781
Ion	Ratio	Lower	Upper
49	100		
128	42.5	21.8	65.3
130	54.4	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 1.862 ppbv

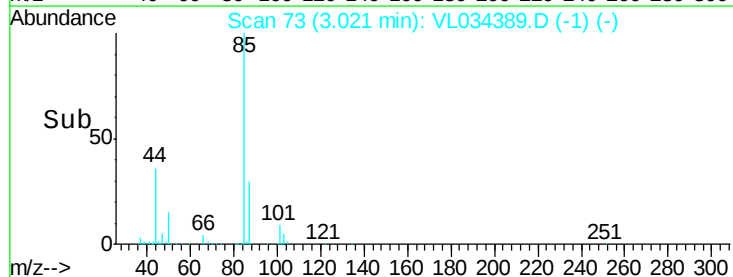
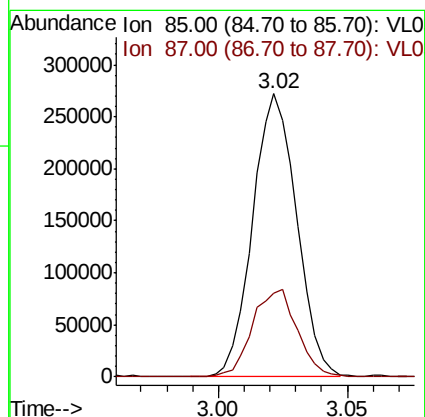
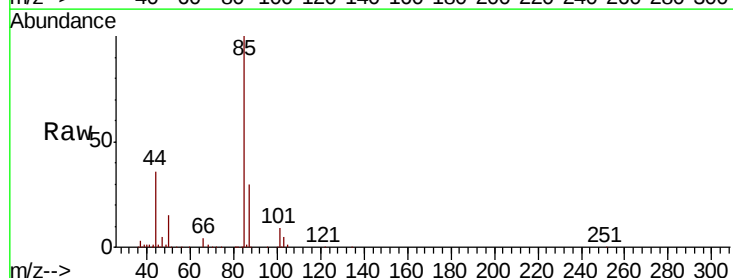
RT: 3.02 min Scan# 73

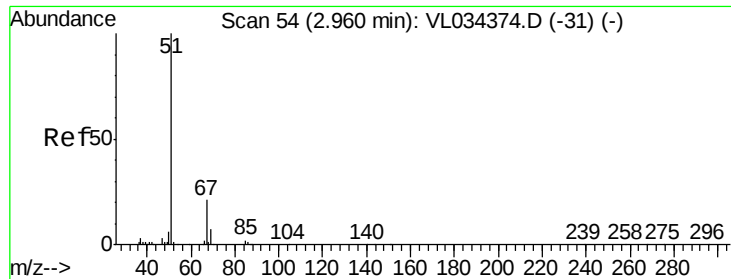
Delta R.T. -0.00 min

Lab File: VL034389.D

Acq: 19 Nov 2019 21:35

Tgt Ion:	85	Resp:	324383
Ion	Ratio	Lower	Upper
85	100		
87	29.7	28.5	42.7





#3

Chlorodifluoromethane

Concen: 0.681 ppbv

RT: 2.96 min Scan# 54

Delta R.T. -0.00 min

Lab File: VL034389.D

Acq: 19 Nov 2019 21:35

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 51 Resp: 81850

Ion Ratio Lower Upper

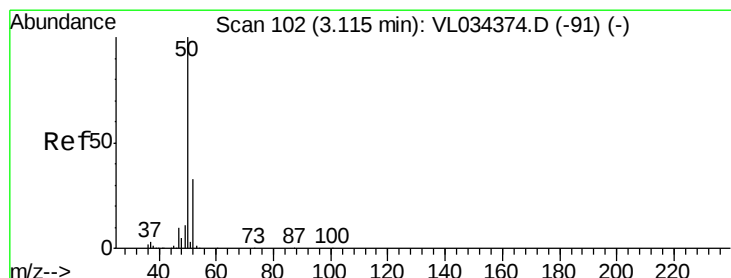
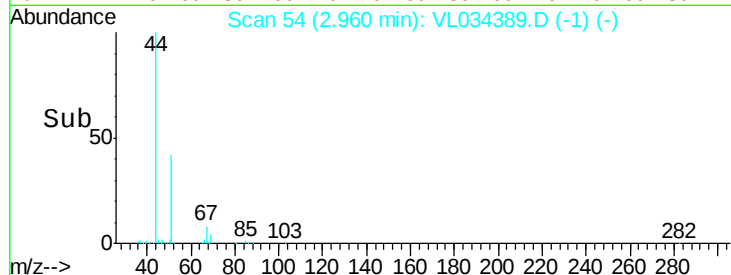
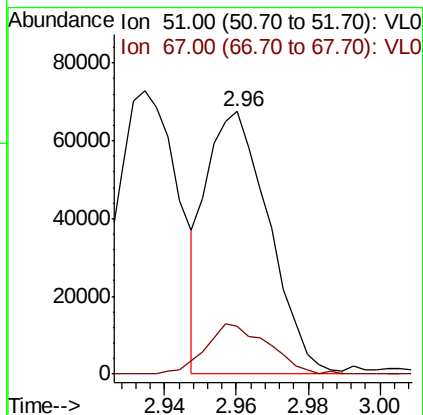
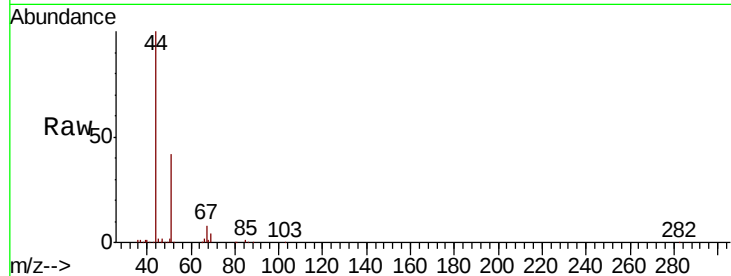
51 100

67 19.4 16.2 24.2

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#4

Chloromethane

Concen: 0.345 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.00 min

Lab File: VL034389.D

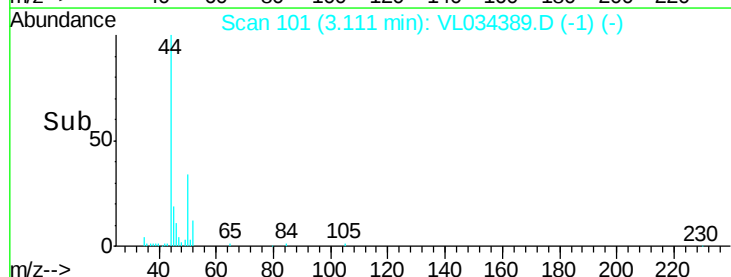
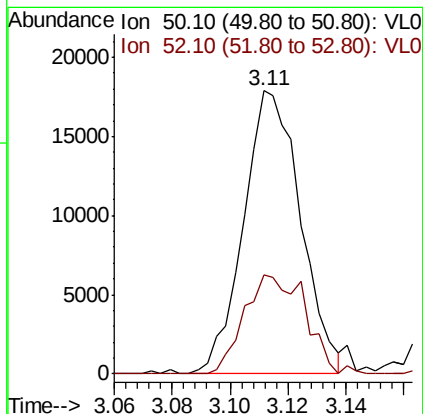
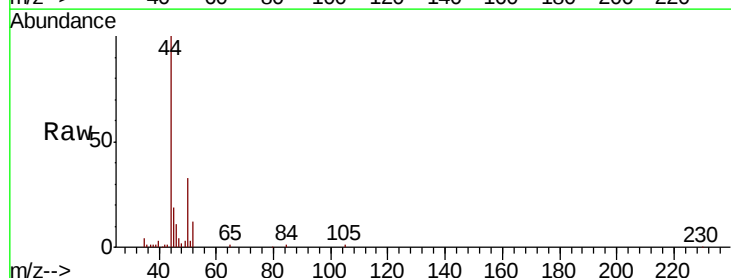
Acq: 19 Nov 2019 21:35

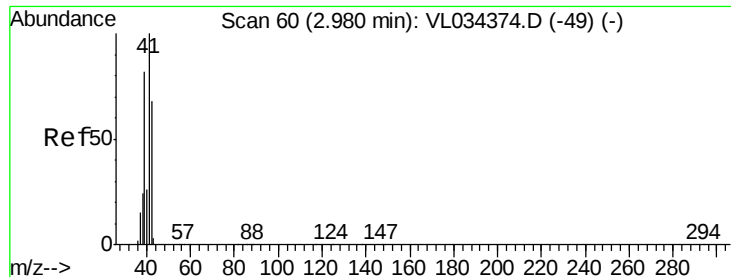
Tgt Ion: 50 Resp: 24443

Ion Ratio Lower Upper

50 100

52 34.9 26.8 40.2





#9

Propene

Concen: 2.983 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. 0.02 min

Lab File: VL034389.D

Acq: 19 Nov 2019 21:35

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion: 41 Resp: 159088

Ion Ratio Lower Upper

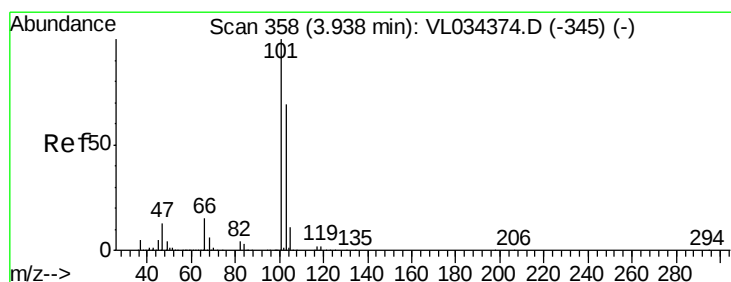
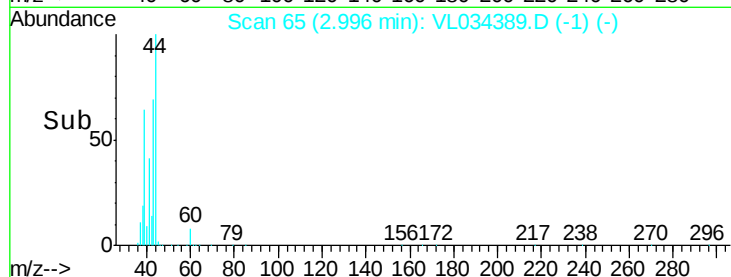
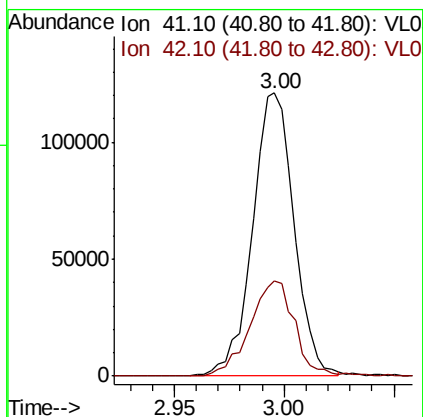
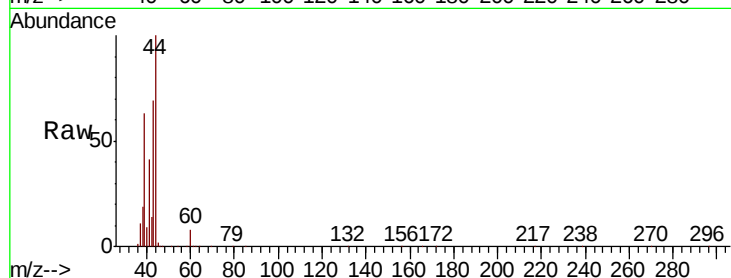
41 100

42 175.2 54.6 82.0#

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#11

Trichlorofluoromethane

Concen: 0.203 ppbv

RT: 3.94 min Scan# 359

Delta R.T. 0.00 min

Lab File: VL034389.D

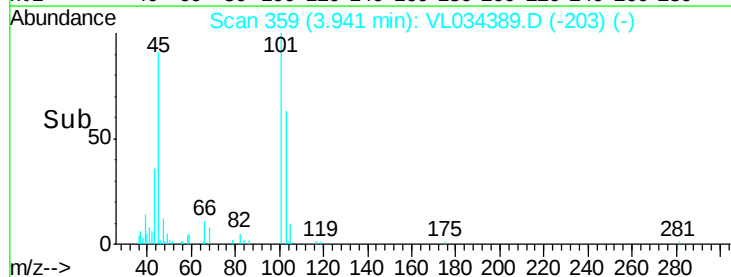
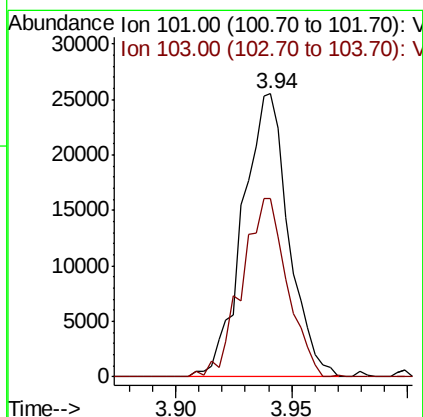
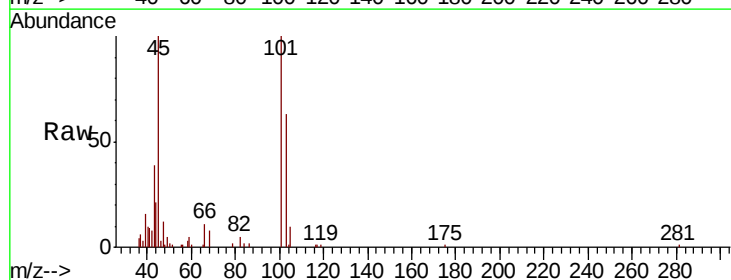
Acq: 19 Nov 2019 21:35

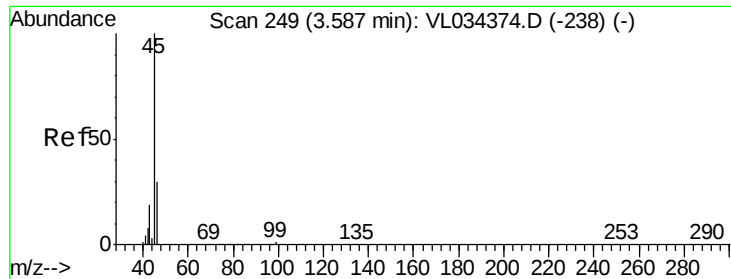
Tgt Ion: 101 Resp: 35176

Ion Ratio Lower Upper

101 100

103 63.1 55.4 83.0





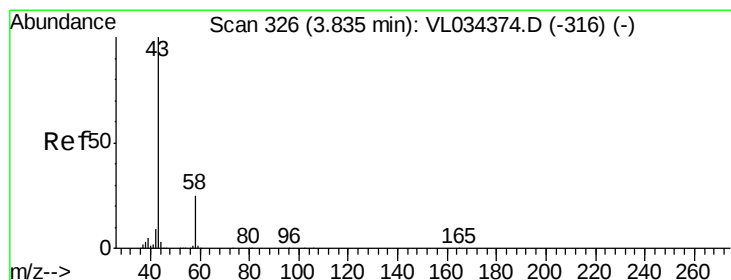
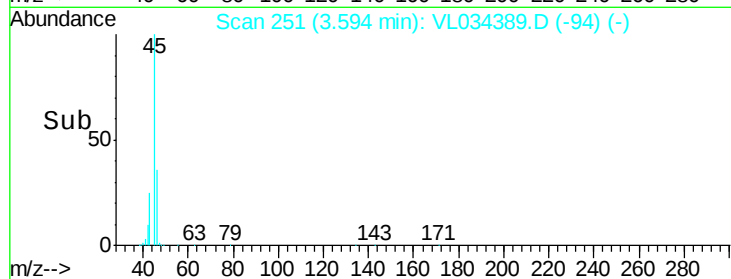
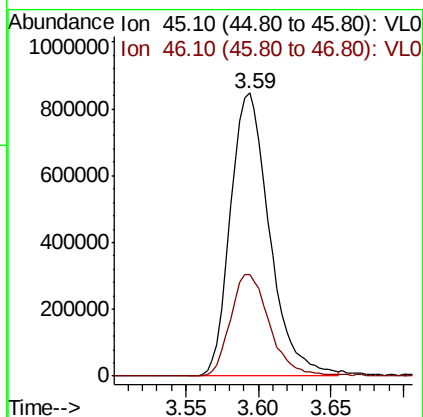
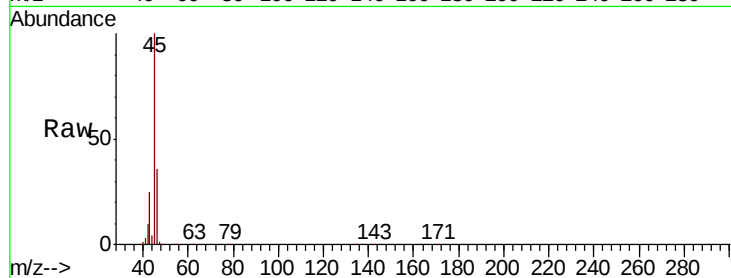
#13
Ethanol
Concen: 101.685 ppbv
RT: 3.59 min Scan# 251
Delta R.T. 0.01 min
Lab File: VL034389.D
Acq: 19 Nov 2019 21:35

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion: 45 Resp: 1588367
Ion Ratio Lower Upper
45 100
46 36.5 13.8 55.4

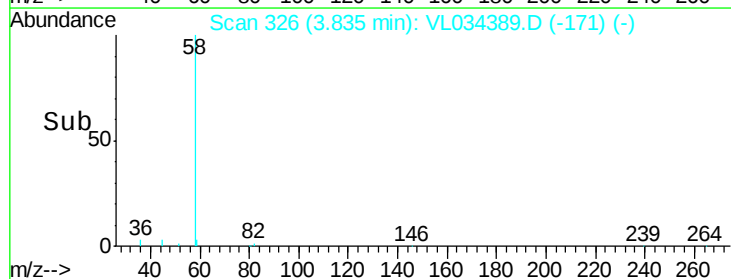
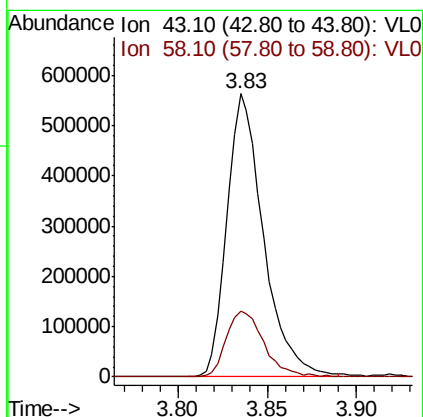
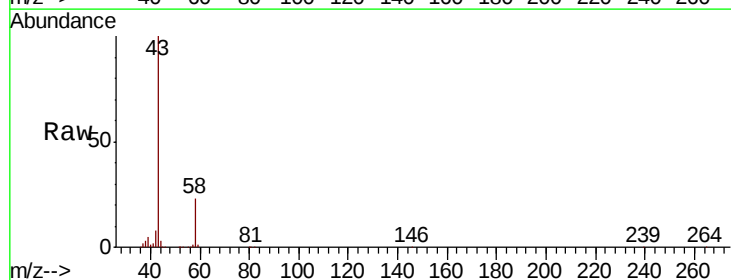
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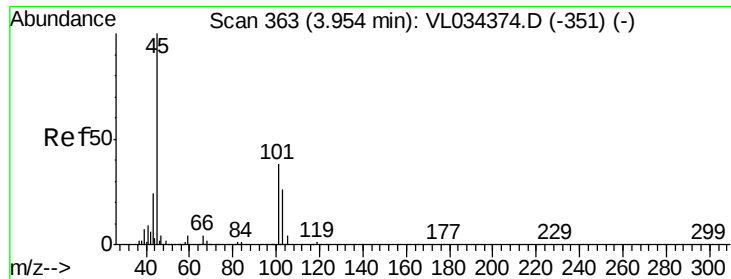
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#15
Acetone
Concen: 5.816 ppbv
RT: 3.83 min Scan# 326
Delta R.T. -0.00 min
Lab File: VL034389.D
Acq: 19 Nov 2019 21:35

Tgt Ion: 43 Resp: 801798
Ion Ratio Lower Upper
43 100
58 24.0 20.2 30.4





#19

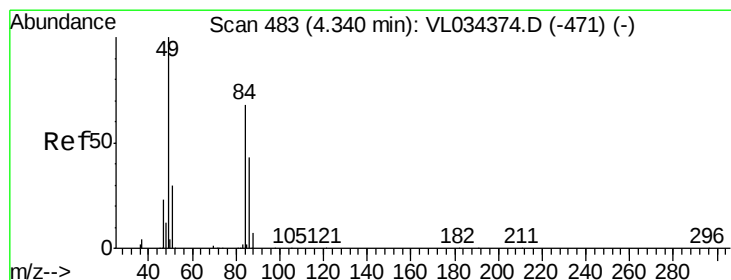
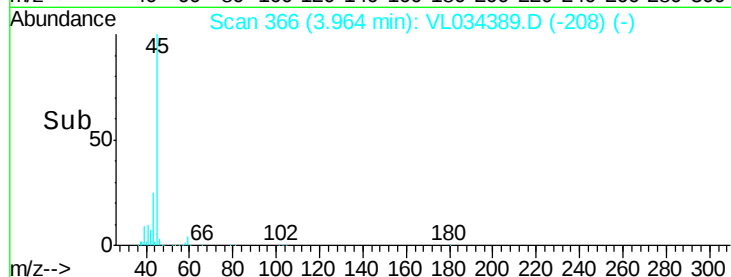
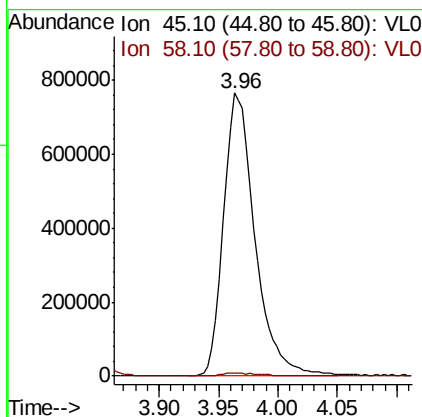
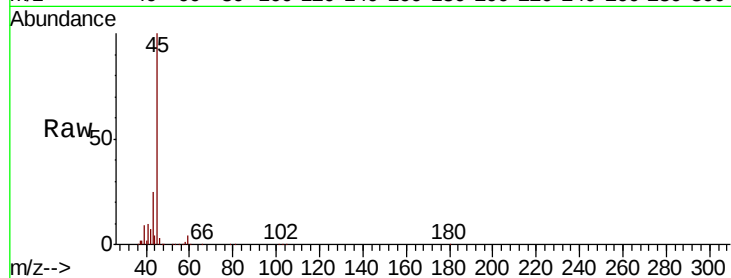
Isopropyl Alcohol
 Concen: 13.962 ppbv
 RT: 3.96 min Scan# 366
 Delta R.T. 0.01 min
 Lab File: VL034389.D
 Acq: 19 Nov 2019 21:35

Instrument :
 MSVOA_L
 ClientSampled :
 IA1

Tot Ion: 45 Resp: 1399992
 Ion Ratio Lower Upper
 45 100
 58 1.5 1.3 1.9

Manual Integrations
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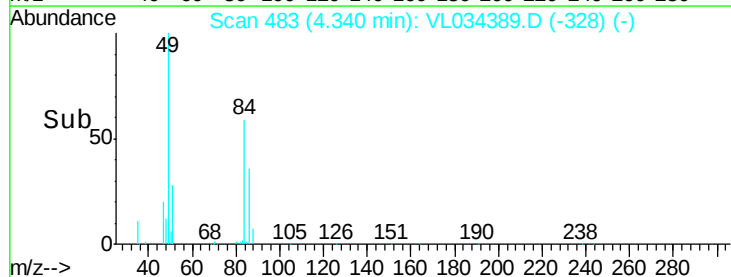
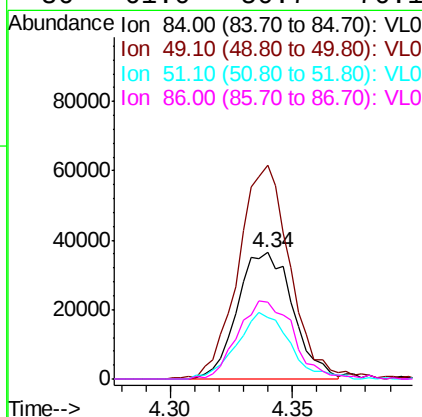
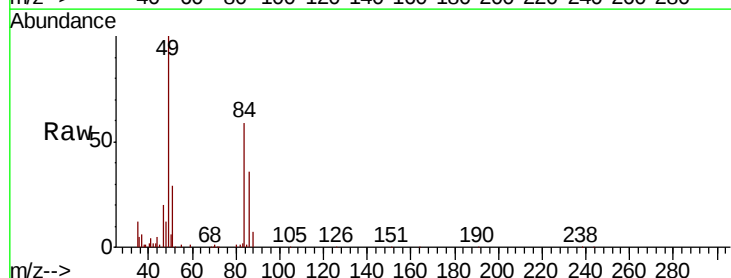
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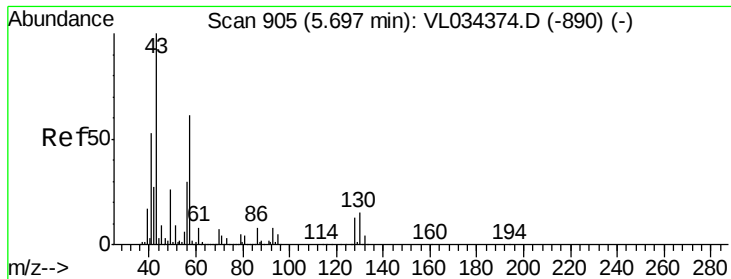


#20

Methylene Chloride
 Concen: 1.175 ppbv
 RT: 4.34 min Scan# 483
 Delta R.T. -0.00 min
 Lab File: VL034389.D
 Acq: 19 Nov 2019 21:35

Tgt Ion: 84 Resp: 57461
 Ion Ratio Lower Upper
 84 100
 49 167.2 116.8 175.2
 51 48.5 35.6 53.4
 86 61.0 50.7 76.1





#26

Hexane

Concen: 0.710 ppbv

RT: 5.70 min Scan# 905

Delta R.T. -0.00 min

Lab File: VL034389.D

Acq: 19 Nov 2019 21:35

Instrument :

MSVOA_L

ClientSampleId :

IA1

Tot Ion: 57 Resp: 75040

Ion Ratio Lower Upper

57 100

41 98.4 75.0 112.4

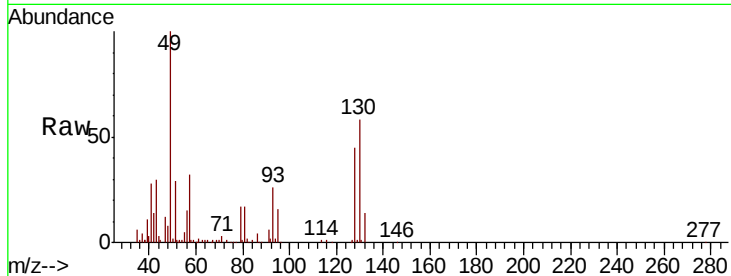
43 103.5 186.6 279.8#

56 56.6 41.5 62.3

Manual Integrations
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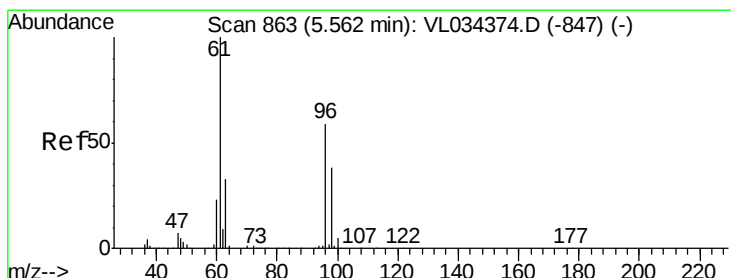
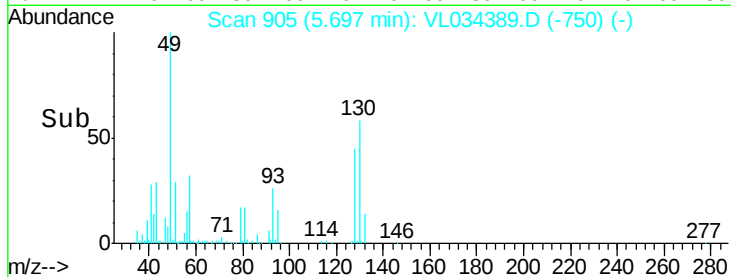
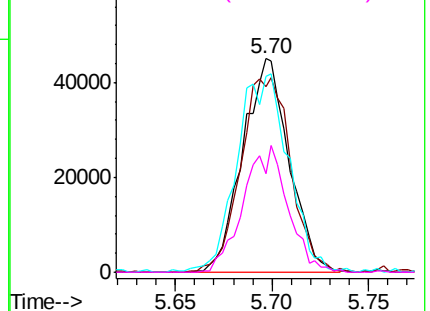


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#31

cis-1,2-Dichloroethene

Concen: 3.329 ppbv

RT: 5.56 min Scan# 861

Delta R.T. -0.01 min

Lab File: VL034389.D

Acq: 19 Nov 2019 21:35

Tgt Ion: 61 Resp: 363714

Ion Ratio Lower Upper

61 100

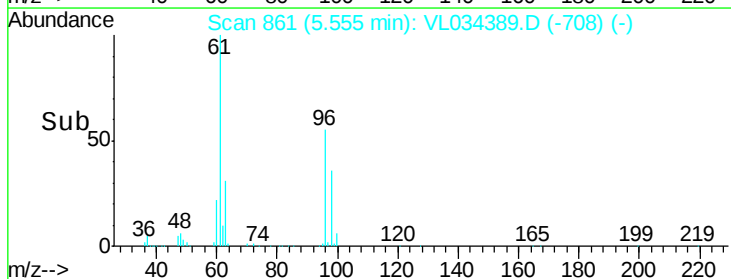
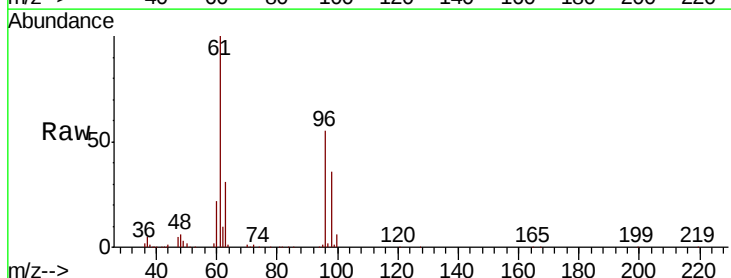
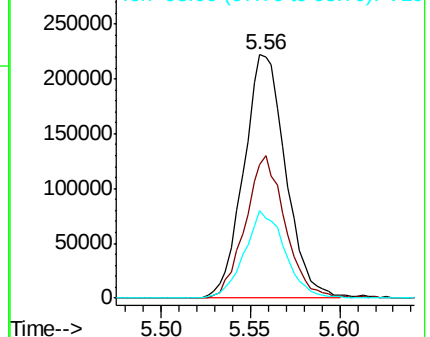
96 54.8 47.4 71.2

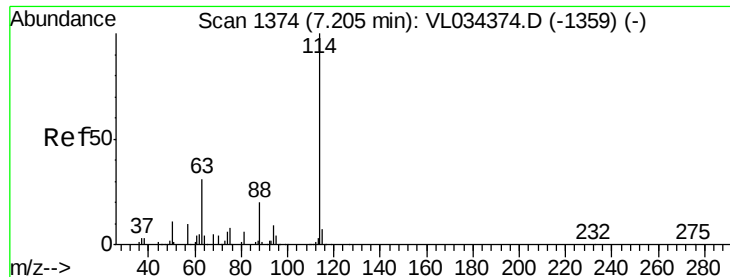
98 35.7 30.6 45.8

Abundance Ion 61.10 (60.80 to 61.80): VL0

Ion 96.00 (95.70 to 96.70): VL0

Ion 98.00 (97.70 to 98.70): VL0





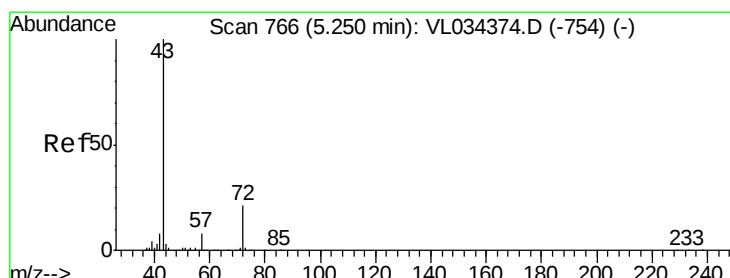
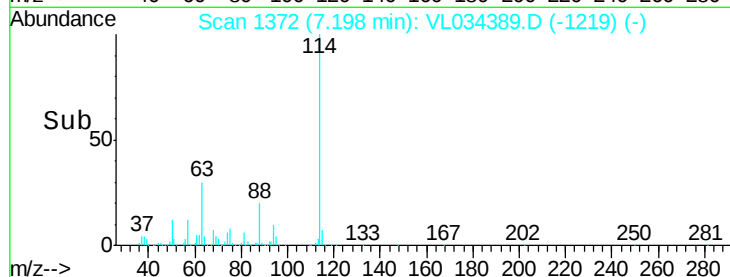
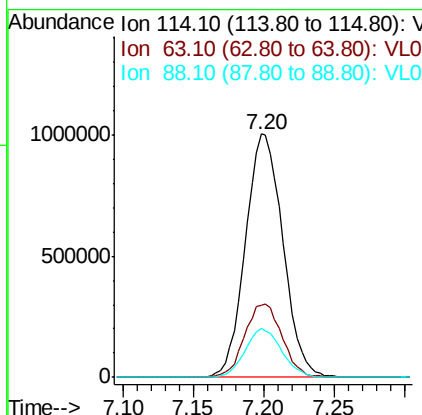
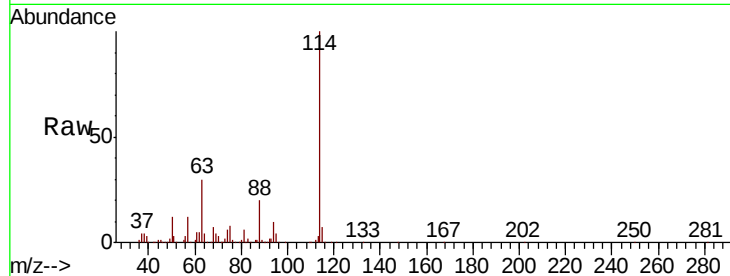
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.20 min Scan# 1372
 Delta R.T. -0.01 min
 Lab File: VL034389.D
 Acq: 19 Nov 2019 21:35

Instrument :
 MSVOA_L
 ClientSampled :
 IA1

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.2	24.2	36.4
88	19.7	15.9	23.9

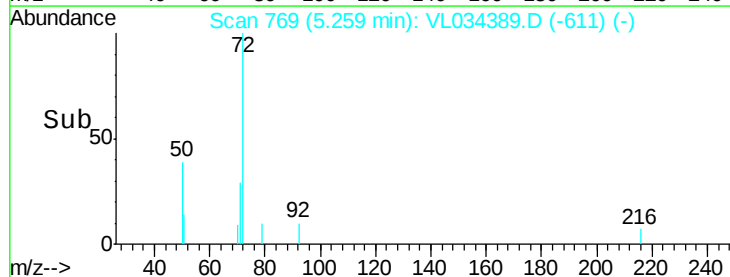
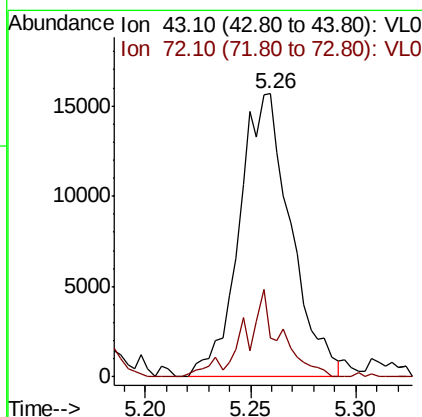
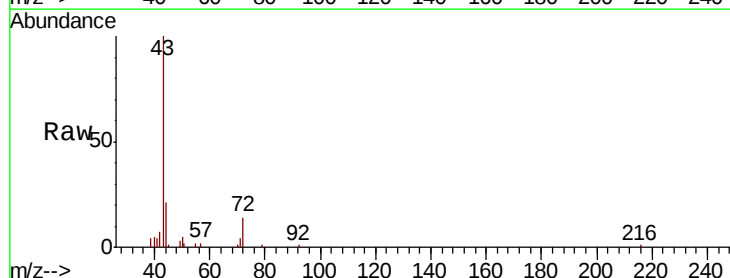
Manual Integrations
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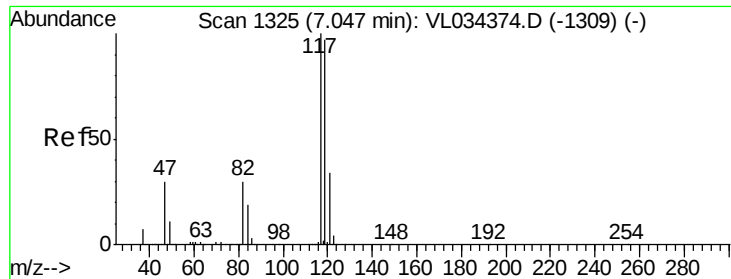
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#34
 2-Butanone
 Concen: 0.173 ppbv
 RT: 5.26 min Scan# 769
 Delta R.T. 0.01 min
 Lab File: VL034389.D
 Acq: 19 Nov 2019 21:35

Tgt Ion	Ratio	Lower	Upper
43	100		
72	21.7	17.0	25.6





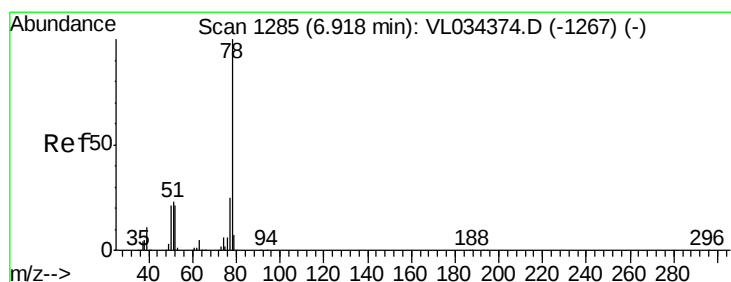
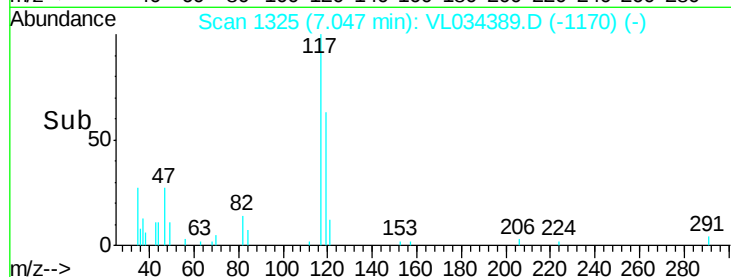
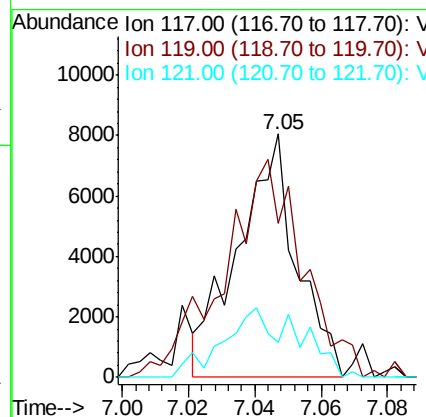
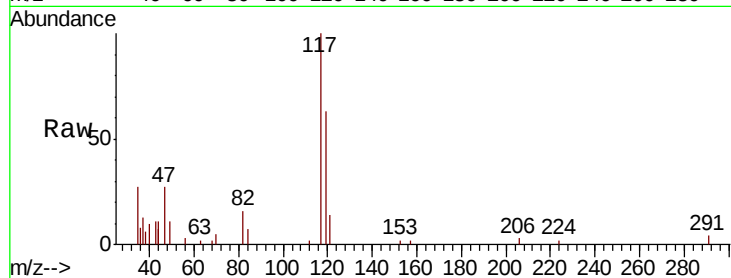
#35
Carbon Tetrachloride
Concen: 0.061 ppbv
RT: 7.05 min Scan# 1325
Delta R.T. -0.00 min
Lab File: VL034389.D
Acq: 19 Nov 2019 21:35

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
117	100		
119	47.9	77.3	115.9#
121	14.1	27.4	41.2#

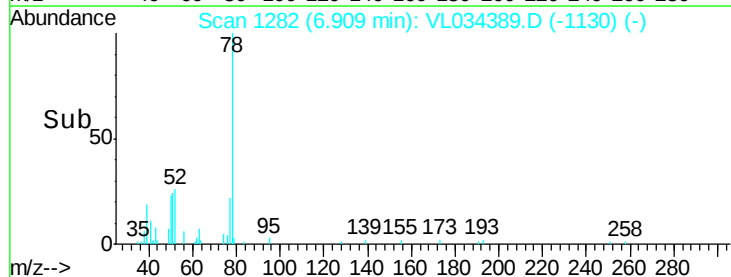
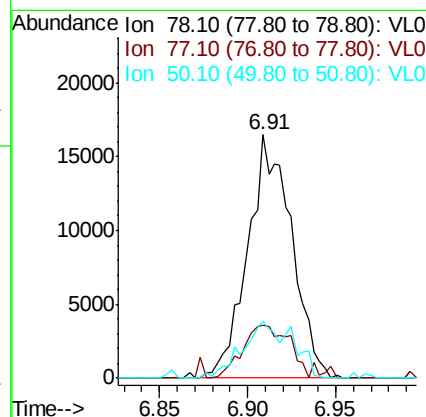
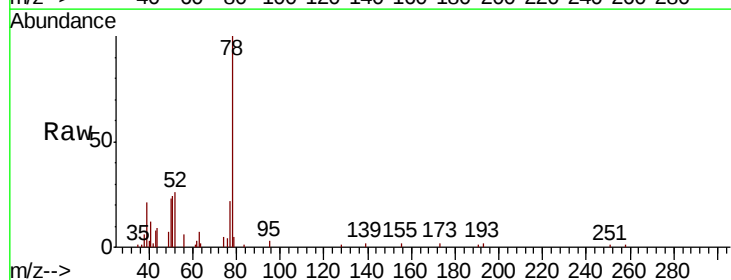
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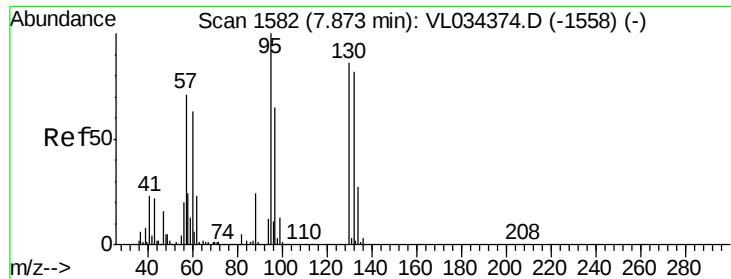
MMDadoda
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#36
Benzene
Concen: 0.152 ppbv m
RT: 6.91 min Scan# 1282
Delta R.T. -0.01 min
Lab File: VL034389.D
Acq: 19 Nov 2019 21:35

Tgt Ion	Ratio	Lower	Upper
78	100		
77	21.9	20.2	30.4
50	23.5	17.1	25.7





#38

Trichloroethene

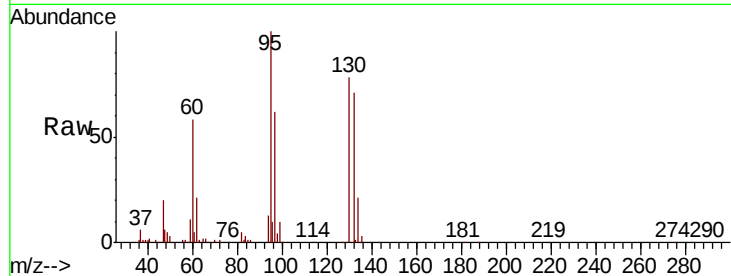
Concen: 1.760 ppbv m
RT: 7.87 min Scan# 1580
Delta R.T. -0.01 min
Lab File: VL034389.D
Acq: 19 Nov 2019 21:35

Instrument :
MSVOA_L
ClientSampled :
IA1

Tot Ion	Ratio	Lower	Upper
130	100		
95	128.0	93.4	140.0
132	91.1	76.4	114.6
97	79.0	61.1	91.7

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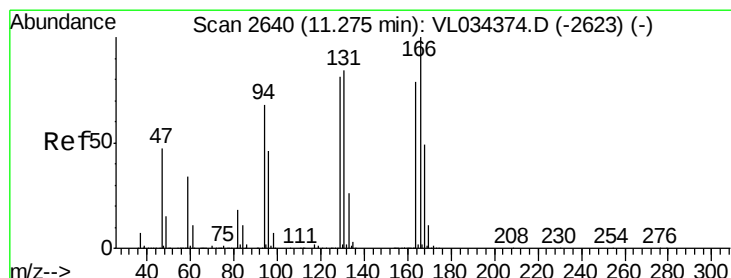
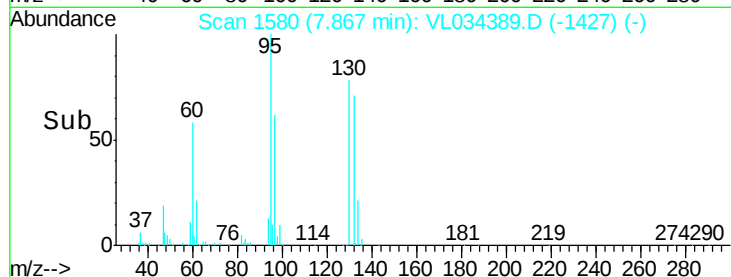
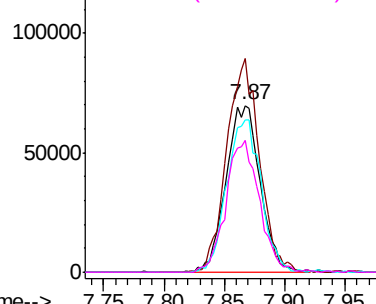


Abundance Ion 130.00 (129.70 to 130.70): V

Ion 95.00 (94.70 to 95.70): VL0

Ion 132.00 (131.70 to 132.70): V

Ion 97.00 (96.70 to 97.70): VL0



#52

Tetrachloroethene

Concen: 109.317 ppbv
RT: 11.29 min Scan# 2646
Delta R.T. 0.02 min
Lab File: VL034389.D
Acq: 19 Nov 2019 21:35

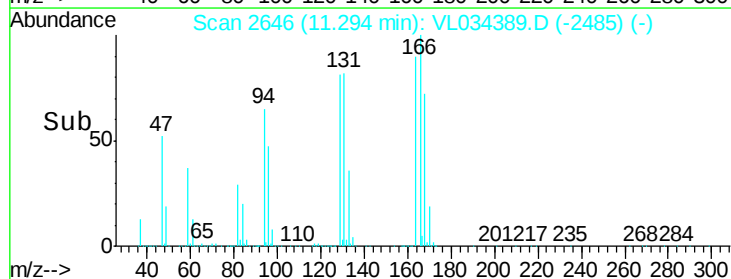
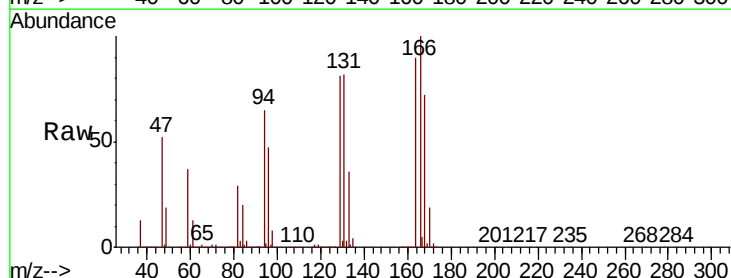
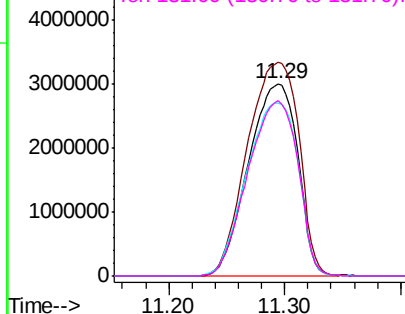
Tgt Ion	Ratio	Lower	Upper
164	100		
166	111.0	101.7	152.5
129	90.0	82.6	123.8
131	91.4	85.2	127.8

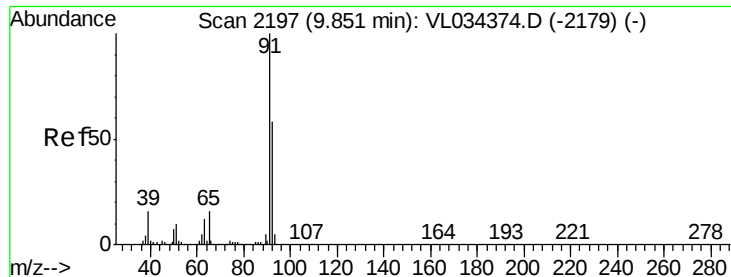
Abundance Ion 163.90 (163.60 to 164.60): V

Ion 165.90 (165.60 to 166.60): V

Ion 129.00 (128.70 to 129.70): V

Ion 131.00 (130.70 to 131.70): V





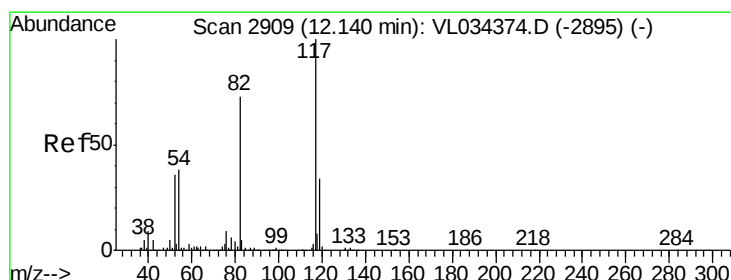
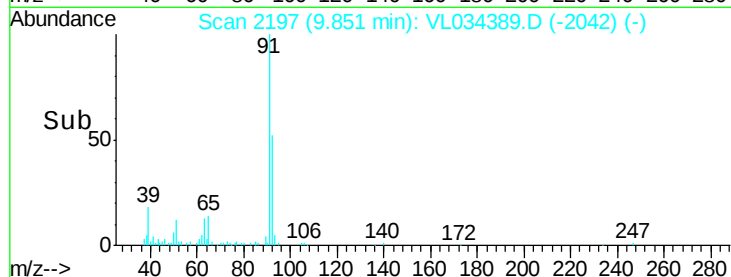
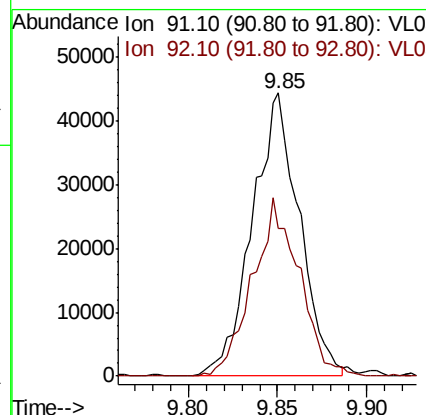
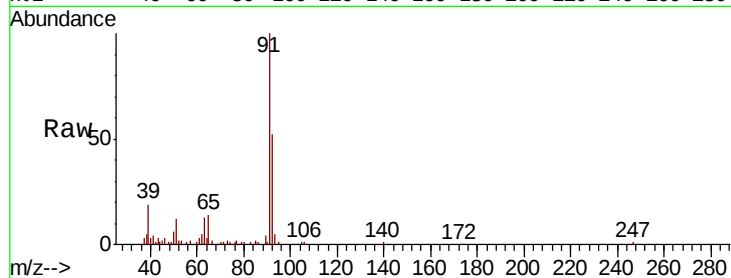
#53
Toluene
Concen: 0.386 ppbv
RT: 9.85 min Scan# 2197
Delta R.T. -0.00 min
Lab File: VL034389.D
Acq: 19 Nov 2019 21:35

Instrument :
MSVOA_L
ClientSampleId :
IA1

Tot Ion: 91 Resp: 81810
Ion Ratio Lower Upper
91 100
92 62.2 47.9 71.9

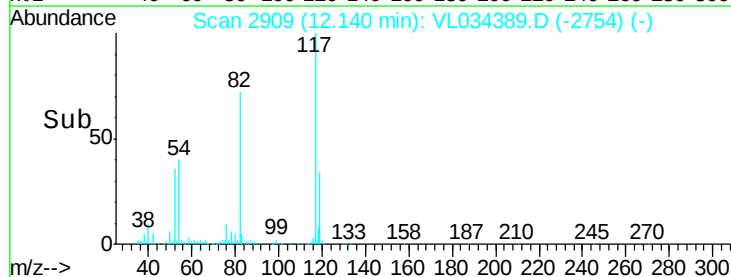
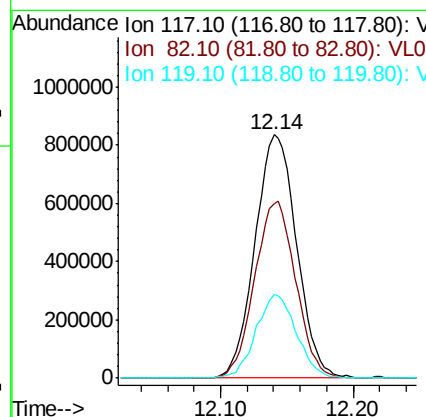
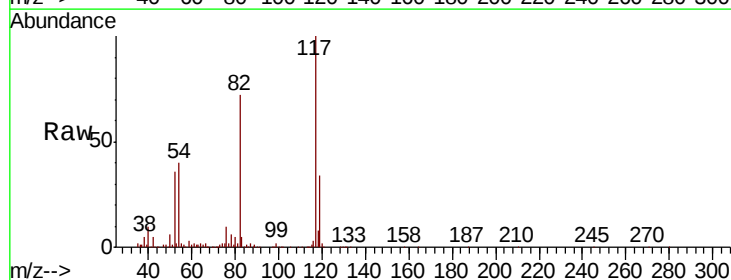
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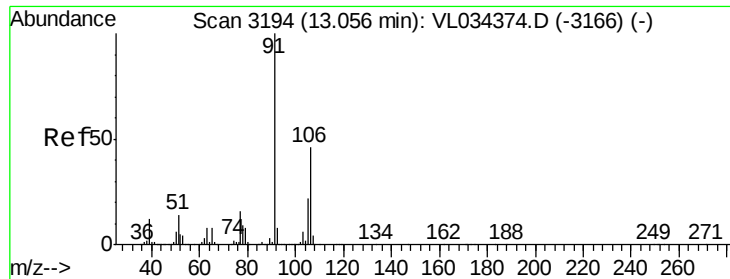
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#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2909
Delta R.T. -0.00 min
Lab File: VL034389.D
Acq: 19 Nov 2019 21:35

Tgt Ion: 117 Resp: 1830736
Ion Ratio Lower Upper
117 100
82 71.9 57.5 86.3
119 33.6 25.4 38.2





#59

m/p-Xylene

Concen: 0.113 ppbv m

RT: 13.02 min Scan# 3184

Delta R.T. -0.03 min

Lab File: VL034389.D

Acq: 19 Nov 2019 21:35

Instrument :

MSVOA_L

ClientSampled :

IA1

Tot Ion: 91 Resp: 27829

Ion Ratio Lower Upper

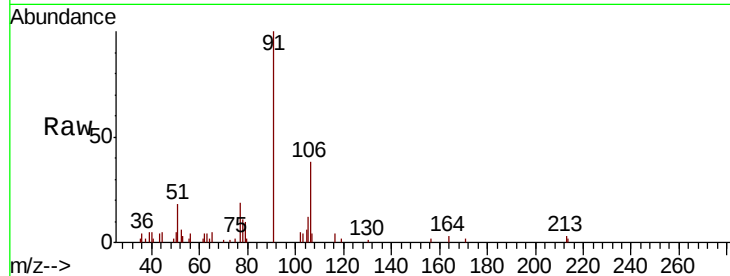
91 100

106 0.0 34.6 51.8#

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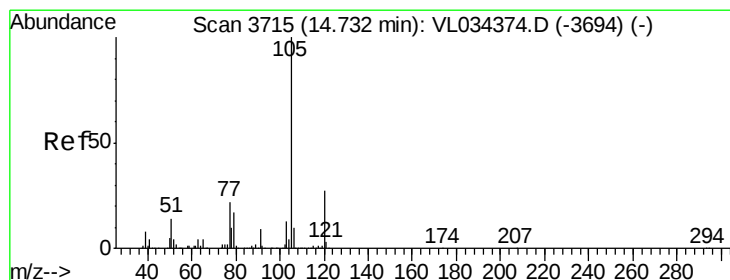
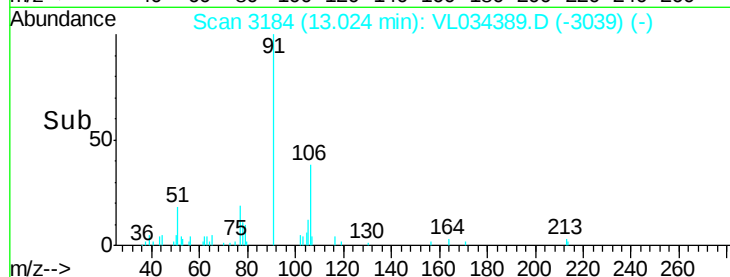
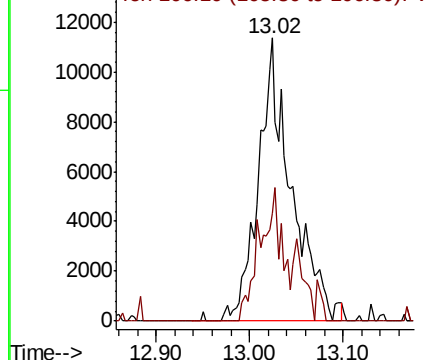
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#62

Isopropylbenzene

Concen: 0.126 ppbv m

RT: 14.73 min Scan# 3713

Delta R.T. -0.01 min

Lab File: VL034389.D

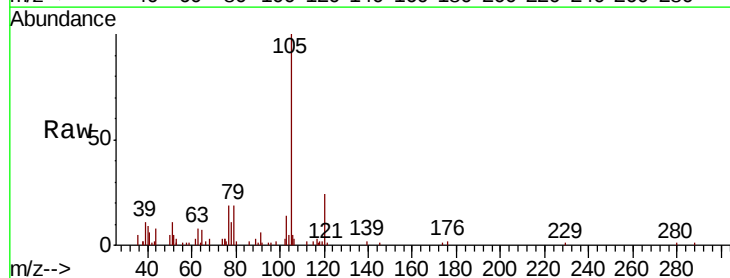
Acq: 19 Nov 2019 21:35

Tgt Ion:105 Resp: 40586

Ion Ratio Lower Upper

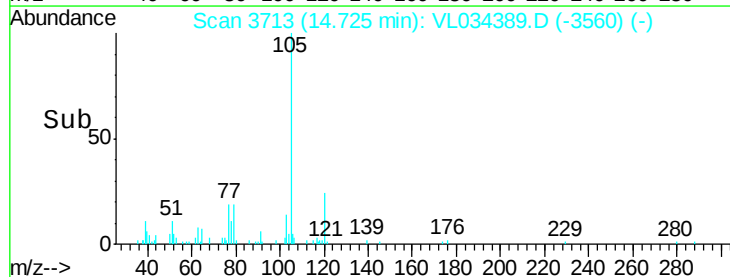
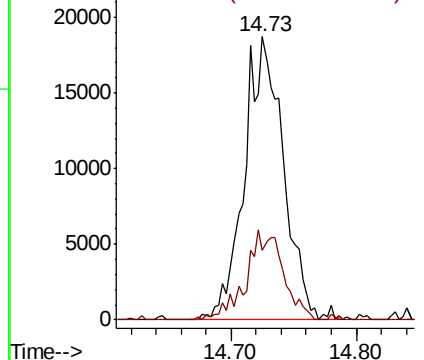
105 100

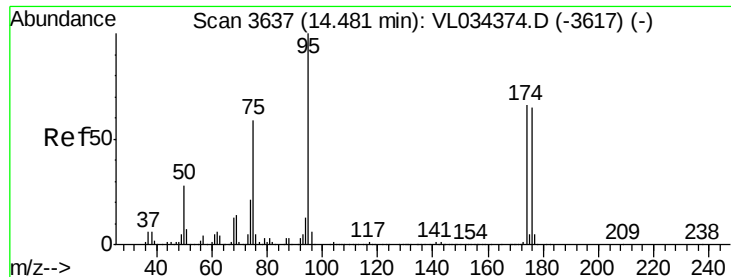
120 0.0 20.2 30.4#



Abundance Ion 105.10 (104.80 to 105.80): V

Ion 120.20 (119.90 to 120.90): V





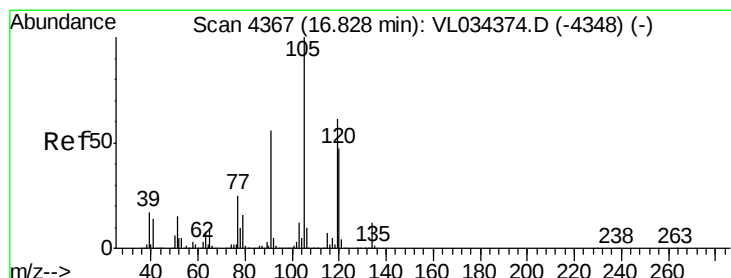
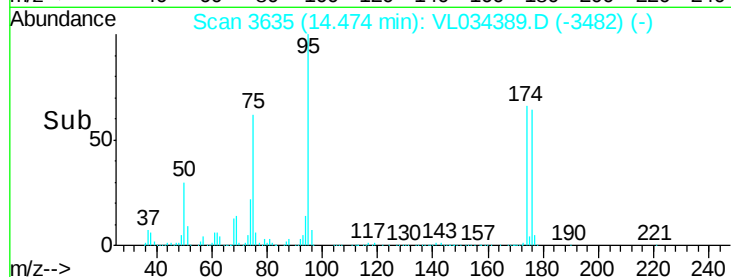
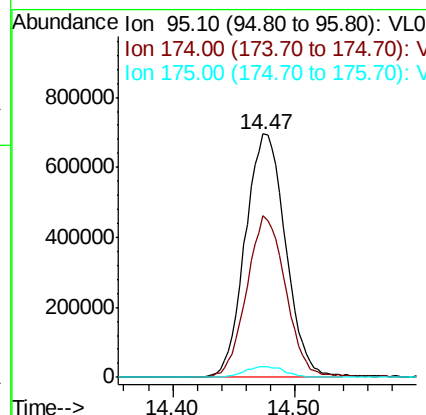
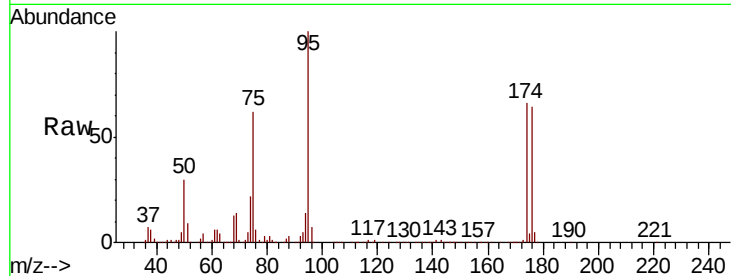
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.294 ppbv
 RT: 14.47 min Scan# 3635
 Delta R.T. -0.01 min
 Lab File: VL034389.D
 Acq: 19 Nov 2019 21:35

Instrument :
 MSVOA_L
 ClientSampleId :
 IA1

Tot Ion: 95 Resp: 1585364
 Ion Ratio Lower Upper
 95 100
 174 64.0 52.2 78.2
 175 4.5 3.8 5.8

Manual Integrations
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.194 ppbv m
 RT: 16.83 min Scan# 4368
 Delta R.T. 0.00 min
 Lab File: VL034389.D
 Acq: 19 Nov 2019 21:35

Tgt Ion: 105 Resp: 56612
 Ion Ratio Lower Upper
 105 100
 120 37.4 37.4 56.0
 91 19.2 46.3 69.5#
 77 16.7 20.6 30.8#

