

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL112519\
 Data File : VL034405.D
 Acq On : 25 Nov 2019 14:24
 Operator : SY/AP
 Sample : K5971-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 1DUP

Manual Integrations
 APPROVED

apatel
 12/2/2019 10:03:33 AM

Quant Time: Nov 29 11:57:29 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_LTue Nov 1
 QLast Update : Tue Nov 19 14:15:35 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.68	49	1020934	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.20	114	2029917	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.14	117	1955697	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.47	95	1669596	10.15	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.02	85	117370	0.635	ppbv	90
4) Chloromethane	3.11	50	51373	0.684	ppbv	93
9) Propene	3.00	41	90265m	1.596	ppbv	
10) Heptane	8.15	43	150997	1.035	ppbv	98
11) Trichlorofluoromethane	3.93	101	40648	0.221	ppbv	92
13) Ethanol	3.62	45	10779838	684.287	ppbv	84
15) Acetone	3.83	43	2762964	18.900	ppbv	98
19) Isopropyl Alcohol	3.99	45	3445707m	36.771	ppbv	
20) Methylene Chloride	4.34	84	90572	1.747	ppbv	87
26) Hexane	5.70	57	117367	1.047	ppbv #	24
29) Chloroform	5.76	83	48918	0.269	ppbv	98
30) Cyclohexane	7.15	84	24865m	0.293	ppbv	
34) 2-Butanone	5.25	43	79290	0.475	ppbv	95
35) Carbon Tetrachloride	7.04	117	10624m	0.061	ppbv	
36) Benzene	6.91	78	57053	0.281	ppbv #	84
44) 2,2,4-Trimethylpentane	7.90	57	53470	0.144	ppbv #	68
52) Tetrachloroethene	11.27	164	8668m	0.099	ppbv	
53) Toluene	9.85	91	770592	3.343	ppbv	98
58) Ethyl Benzene	12.76	91	34861m	0.115	ppbv	
59) m/p-Xylene	13.02	91	99457m	0.379	ppbv	
60) o-Xylene	13.74	91	40149m	0.155	ppbv	
74) 1,2,4-Trimethylbenzene	16.82	105	42042m	0.135	ppbv	
76) 1,4-Dichlorobenzene	17.20	146	147338	0.847	ppbv	97
79) Naphthalene	22.29	128	26547m	0.098	ppbv	

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

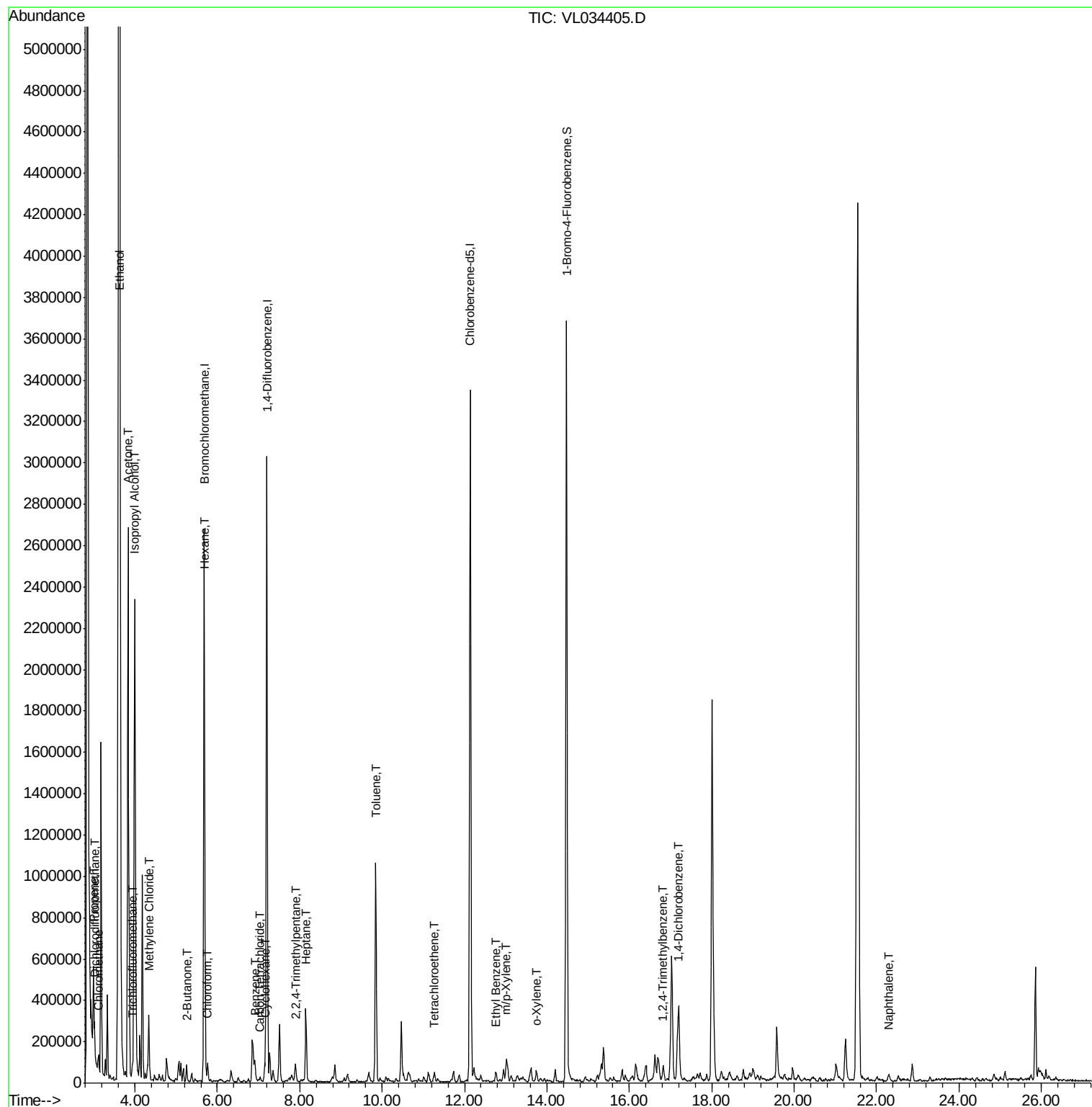
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL112519\
Data File : VL034405.D
Acq On : 25 Nov 2019 14:24
Operator : SY/AP
Sample : K5971-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

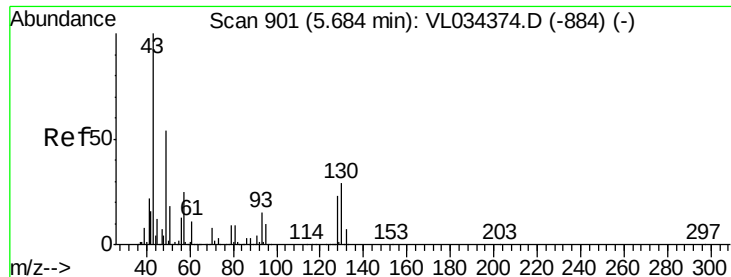
Instrument :
MSVOA_L
ClientSampleId :
1DUP

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Quant Time: Nov 29 11:57:29 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL111919AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Nov
QLast Update : Tue Nov 19 14:15:35 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: VL034405.D

Acq: 25 Nov 2019 14:24

Instrument :

MSVOA_L

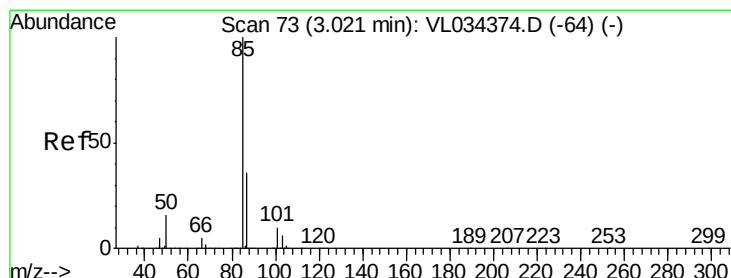
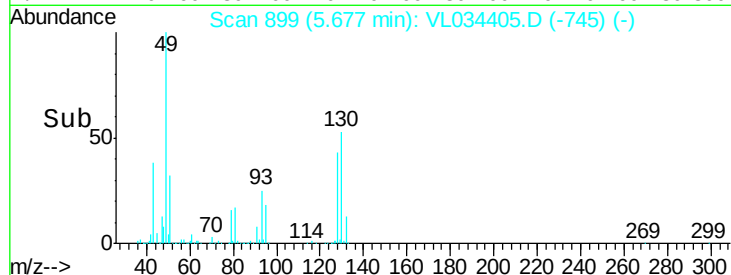
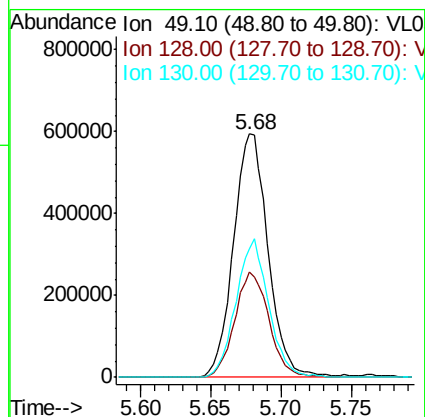
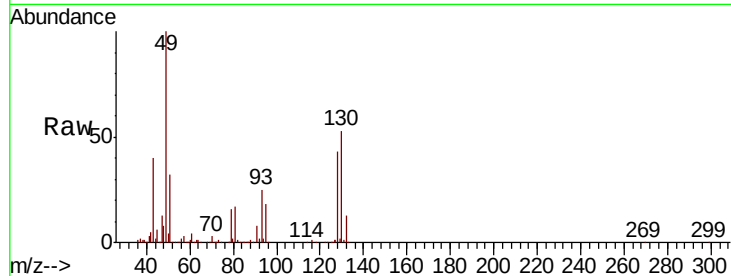
ClientSampled :

1DUP

Tot Ion:	49	Resp:	1020934
Ion	Ratio	Lower	Upper
49	100		
128	43.5	21.8	65.3
130	54.4	28.0	84.0

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#2

Dichlorodifluoromethane

Concen: 0.635 ppbv

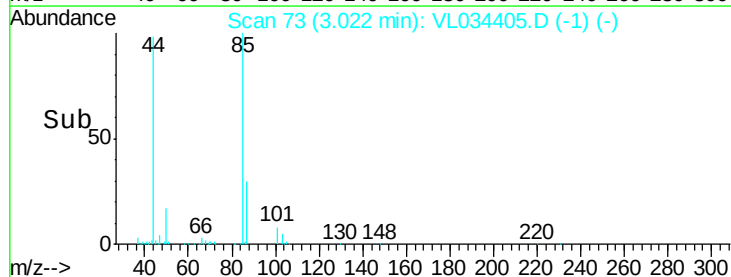
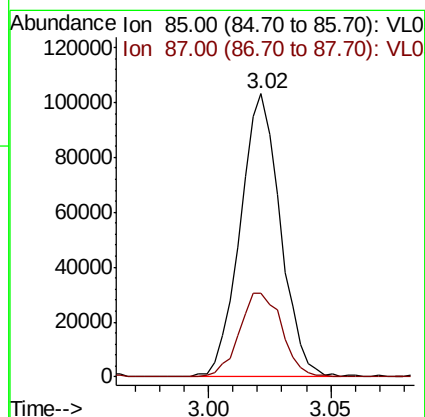
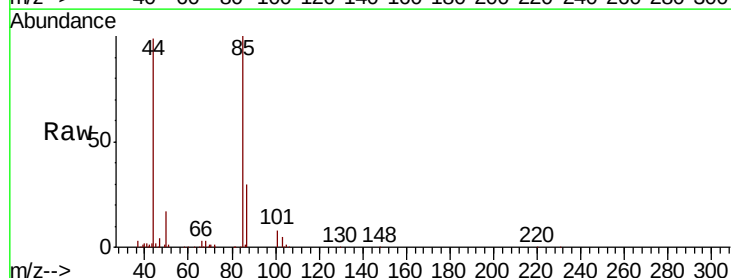
RT: 3.02 min Scan# 73

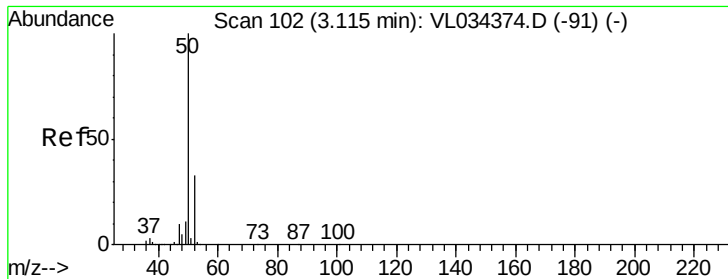
Delta R.T. 0.00 min

Lab File: VL034405.D

Acq: 25 Nov 2019 14:24

Tgt Ion:	85	Resp:	117370
Ion	Ratio	Lower	Upper
85	100		
87	29.7	28.5	42.7





#4

Chloromethane

Concen: 0.684 ppbv

RT: 3.11 min Scan# 101

Delta R.T. -0.00 min

Lab File: VL034405.D

Acq: 25 Nov 2019 14:24

Instrument :

MSVOA_L

ClientSampled :

1DUP

Tot Ion: 50 Resp: 51373

Ion Ratio Lower Upper

50 100

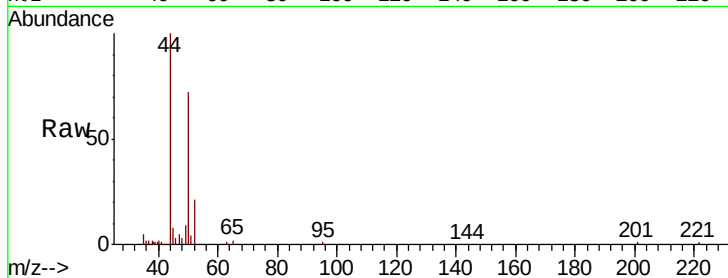
52 29.6 26.8 40.2

Manual Integrations

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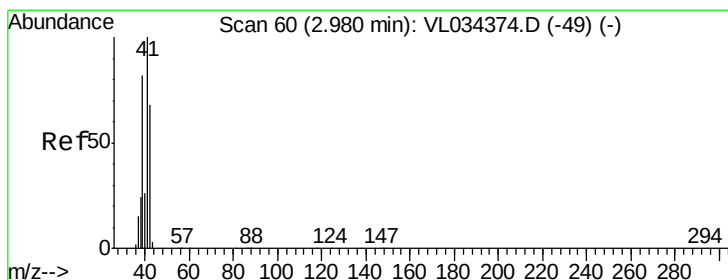
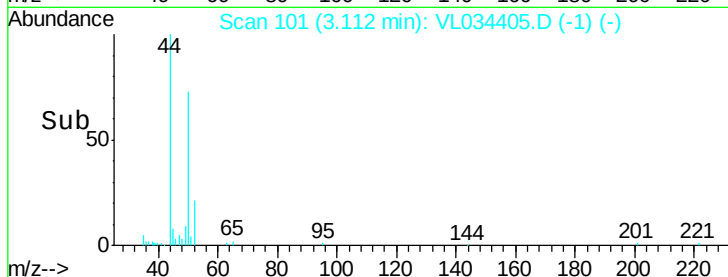
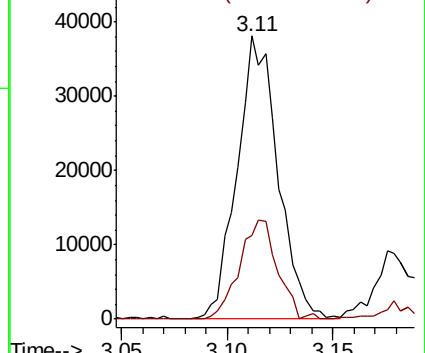
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Abundance Ion 50.10 (49.80 to 50.80): VL0

Ion 52.10 (51.80 to 52.80): VL0



#9

Propene

Concen: 1.596 ppbv m

RT: 3.00 min Scan# 65

Delta R.T. 0.02 min

Lab File: VL034405.D

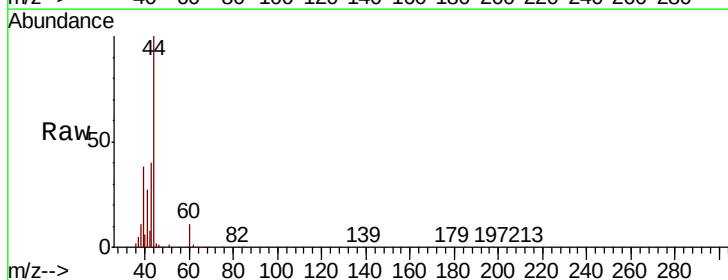
Acq: 25 Nov 2019 14:24

Tgt Ion: 41 Resp: 90265

Ion Ratio Lower Upper

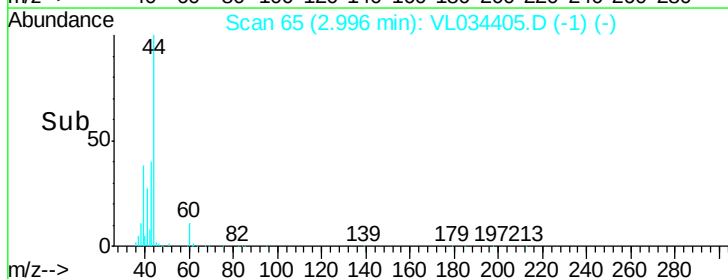
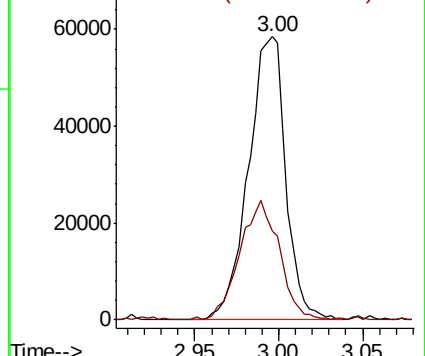
41 100

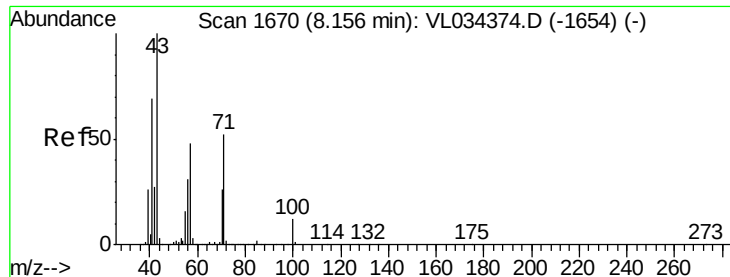
42 292.6 54.6 82.0#



Abundance Ion 41.10 (40.80 to 41.80): VL0

Ion 42.10 (41.80 to 42.80): VL0





#10

Heptane

Concen: 1.035 ppbv

RT: 8.15 min Scan# 1668

Delta R.T. -0.01 min

Lab File: VL034405.D

Acq: 25 Nov 2019 14:24

Instrument :

MSVOA_L

ClientSampled :

1DUP

Tot Ion: 43 Resp: 150997

Ion Ratio Lower Upper

43 100

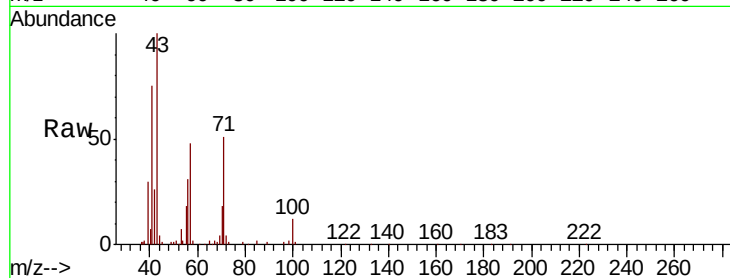
57 48.5 40.2 60.2

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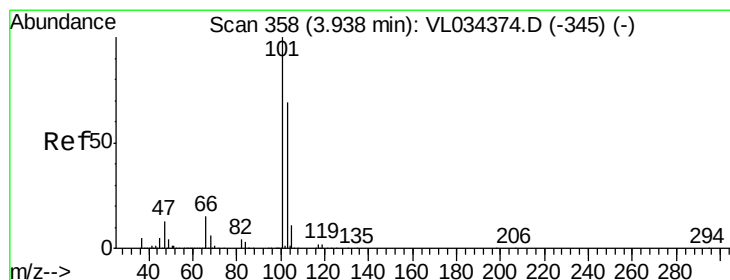
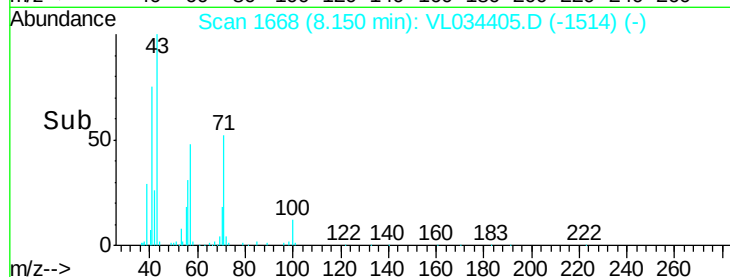
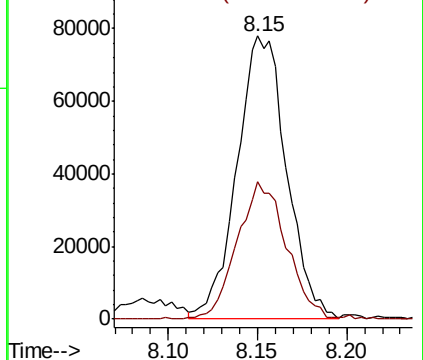
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Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 57.10 (56.80 to 57.80): VL0



#11

Trichlorofluoromethane

Concen: 0.221 ppbv

RT: 3.93 min Scan# 357

Delta R.T. -0.00 min

Lab File: VL034405.D

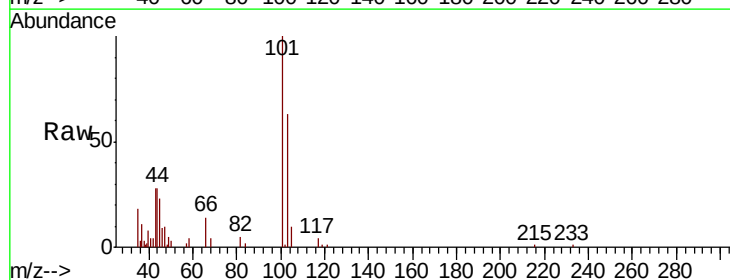
Acq: 25 Nov 2019 14:24

Tgt Ion: 101 Resp: 40648

Ion Ratio Lower Upper

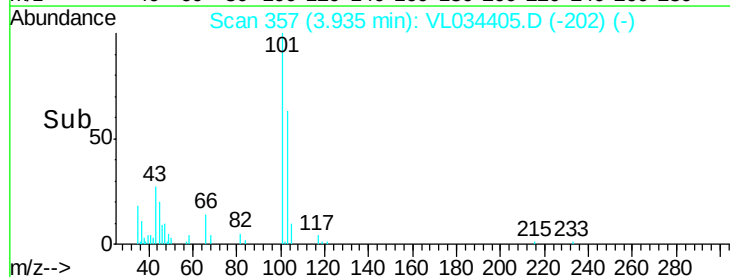
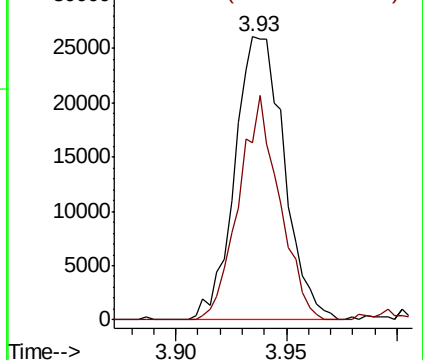
101 100

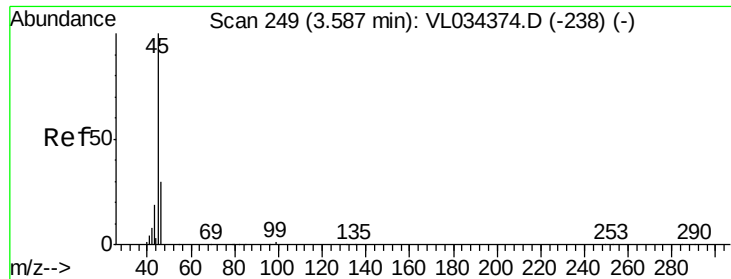
103 62.7 55.4 83.0



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V





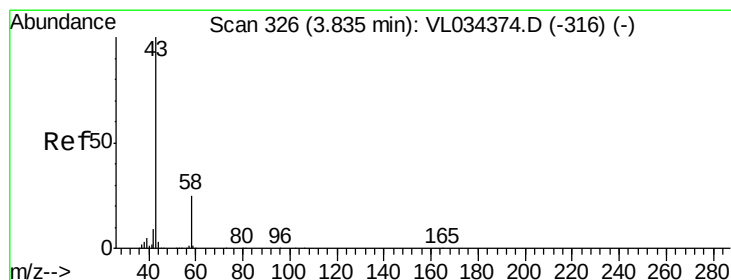
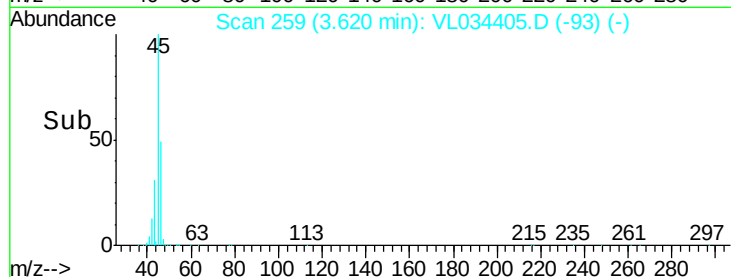
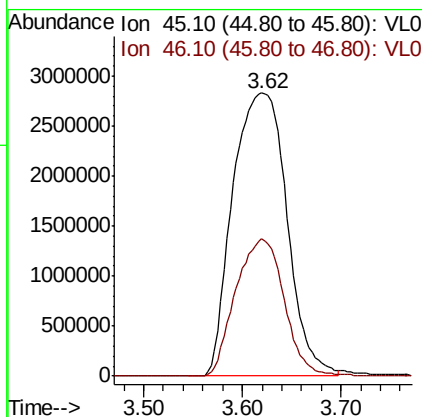
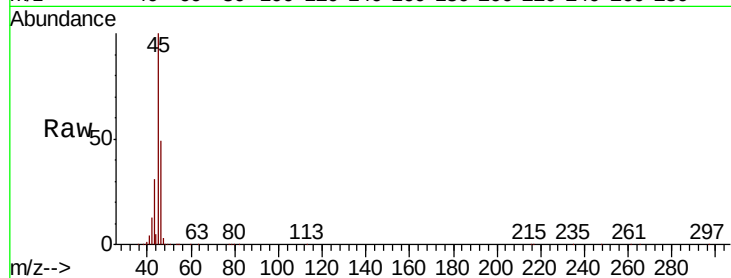
#13
Ethanol
Concen: 684.287 ppbv
RT: 3.62 min Scan# 259
Delta R.T. 0.03 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tot Ion: 45 Resp:10779838
Ion Ratio Lower Upper
45 100
46 43.8 13.8 55.4

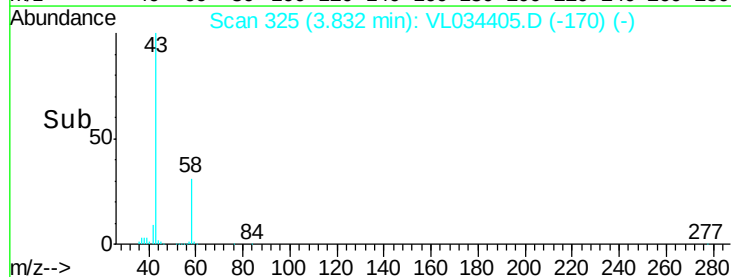
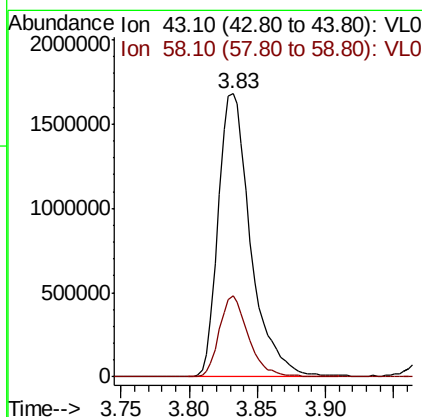
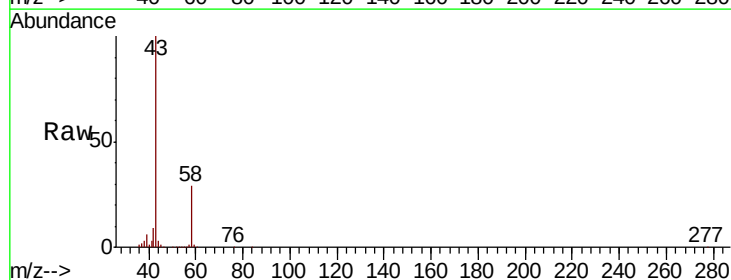
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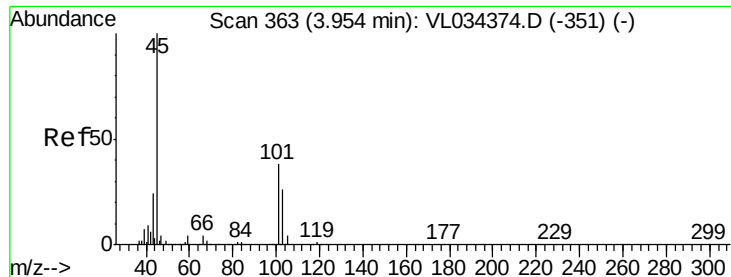
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#15
Acetone
Concen: 18.900 ppbv
RT: 3.83 min Scan# 325
Delta R.T. -0.00 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Tgt Ion: 43 Resp: 2762964
Ion Ratio Lower Upper
43 100
58 26.1 20.2 30.4





#19

Isopropyl Alcohol

Concen: 36.771 ppbv m

RT: 3.99 min Scan# 375

Delta R.T. 0.04 min

Lab File: VL034405.D

Acq: 25 Nov 2019 14:24

Instrument :

MSVOA_L

ClientSampled :

1DUP

Tot Ion: 45 Resp: 3445707

Ion Ratio Lower Upper

45 100

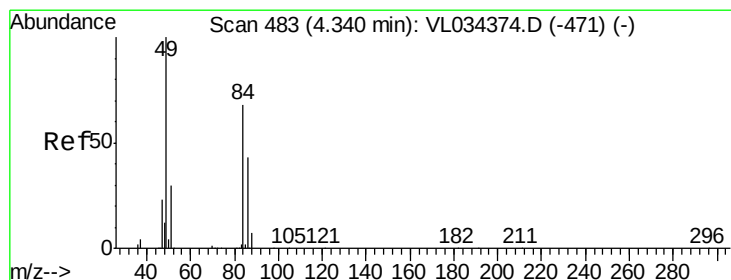
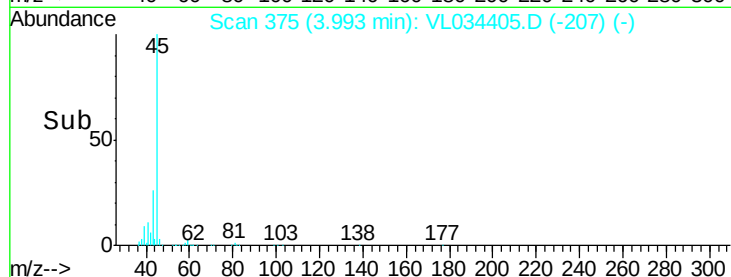
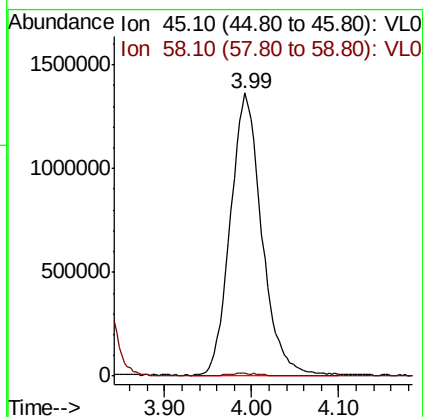
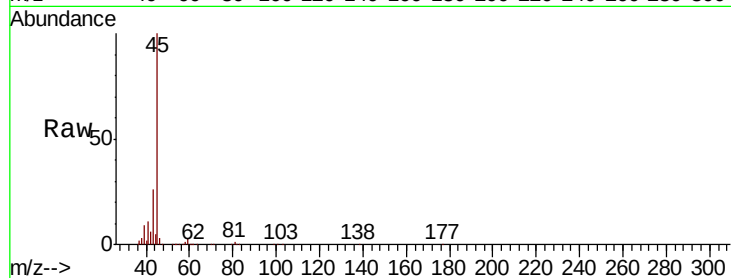
58 0.0 1.3 1.9#

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#20

Methylene Chloride

Concen: 1.747 ppbv

RT: 4.34 min Scan# 483

Delta R.T. 0.00 min

Lab File: VL034405.D

Acq: 25 Nov 2019 14:24

Tgt Ion: 84 Resp: 90572

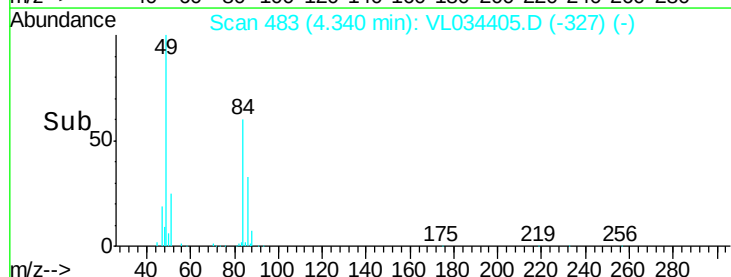
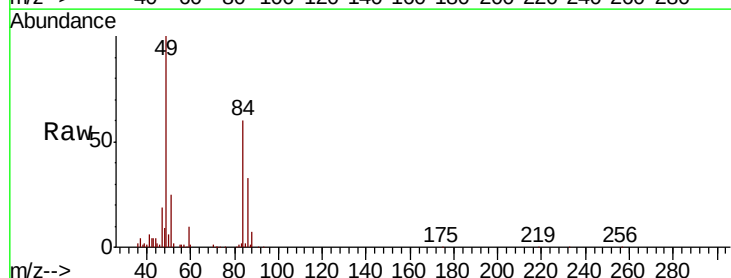
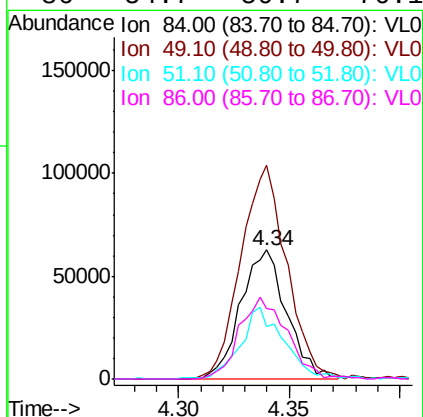
Ion Ratio Lower Upper

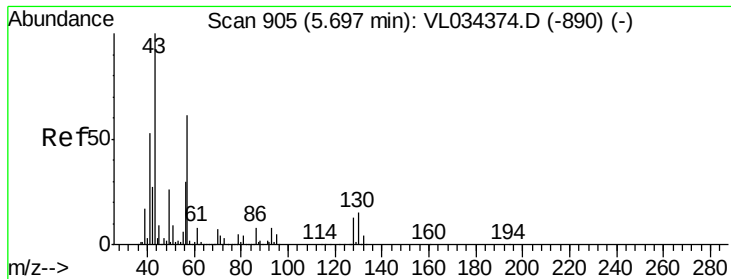
84 100

49 166.0 116.8 175.2

51 40.4 35.6 53.4

86 54.7 50.7 76.1





#26

Hexane

Concen: 1.047 ppbv

RT: 5.70 min Scan# 905

Delta R.T. 0.00 min

Lab File: VL034405.D

Acq: 25 Nov 2019 14:24

Instrument :

MSVOA_L

ClientSampleId :

1DUP

Tot Ion: 57 Resp: 117367

Ion Ratio Lower Upper

57 100

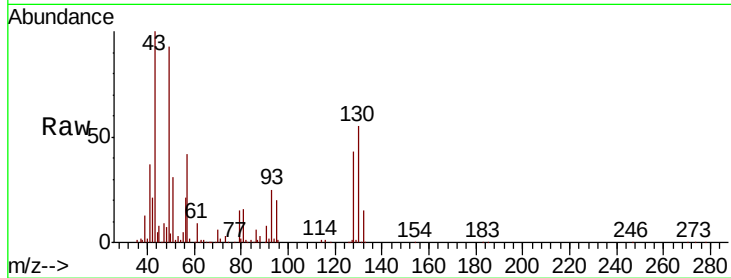
41 98.7 75.0 112.4

43 435.1 186.6 279.8

56 53.7 41.5 62.3

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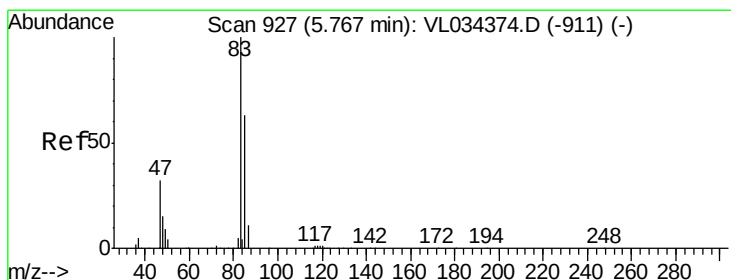
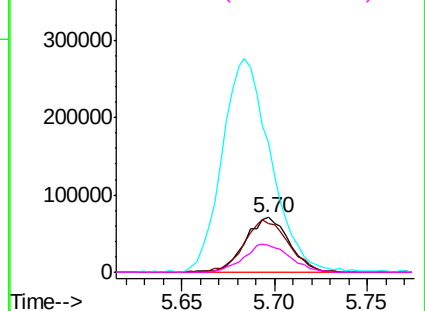
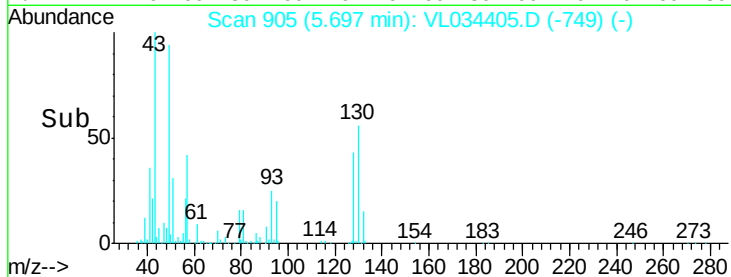


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#29

Chloroform

Concen: 0.269 ppbv

RT: 5.76 min Scan# 926

Delta R.T. -0.00 min

Lab File: VL034405.D

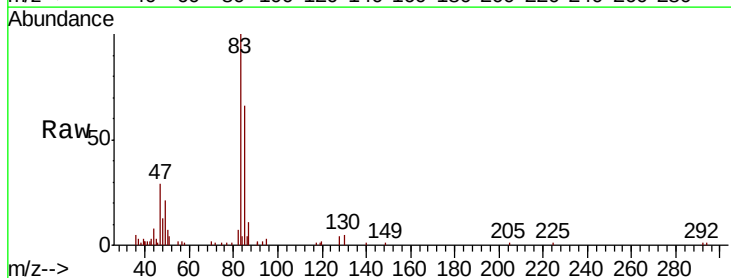
Acq: 25 Nov 2019 14:24

Tgt Ion: 83 Resp: 48918

Ion Ratio Lower Upper

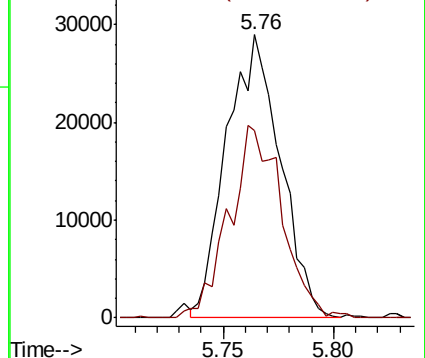
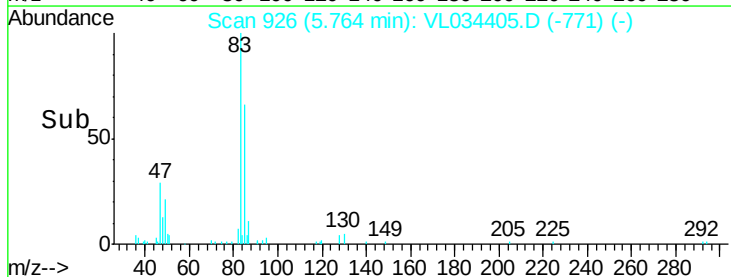
83 100

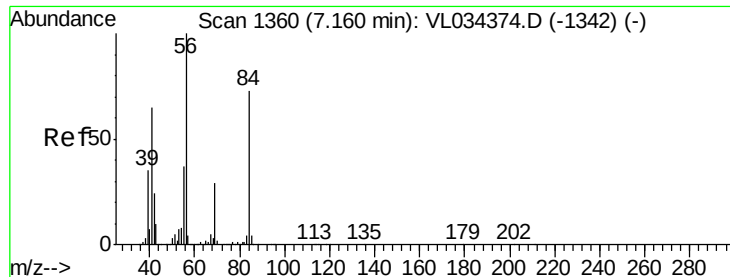
85 64.9 50.4 75.6



Abundance Ion 83.00 (82.70 to 83.70): VL0

Ion 85.00 (84.70 to 85.70): VL0





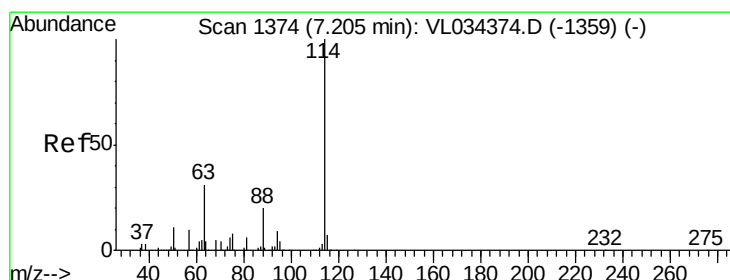
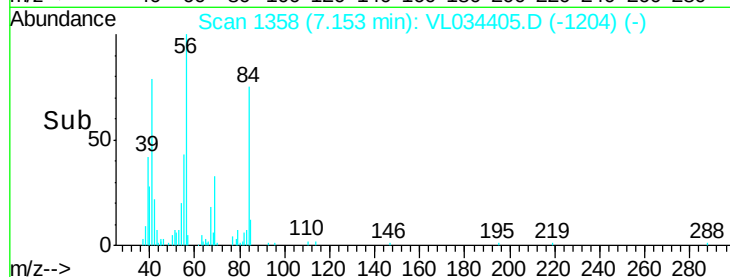
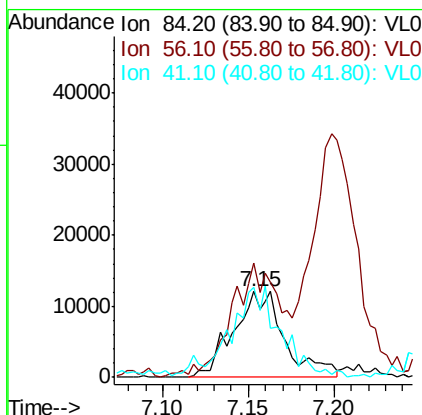
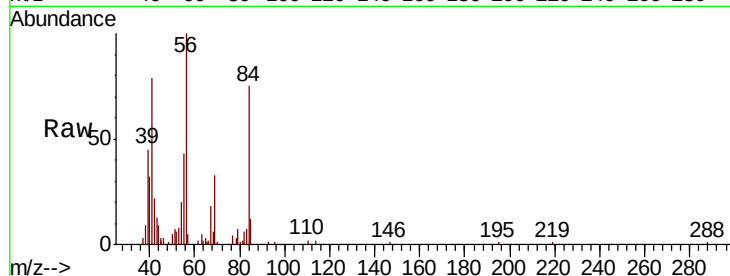
#30
Cyclohexane
Concen: 0.293 ppbv m
RT: 7.15 min Scan# 1358
Delta R.T. -0.01 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Instrument :
MSVOA_L
ClientSampled :
1DUP

Tot Ion	Ratio	Lower	Upper
84	100		
56	118.4	112.6	169.0
41	0.0	73.4	110.2#

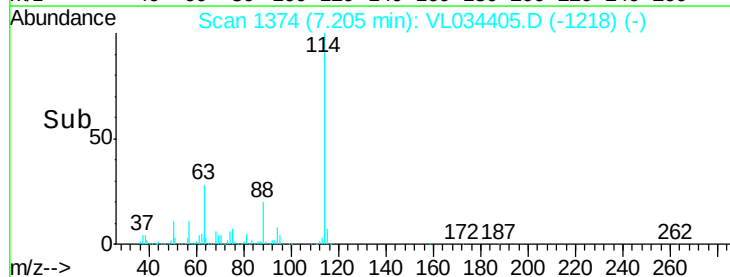
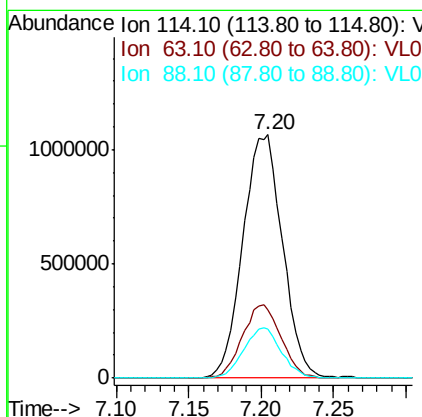
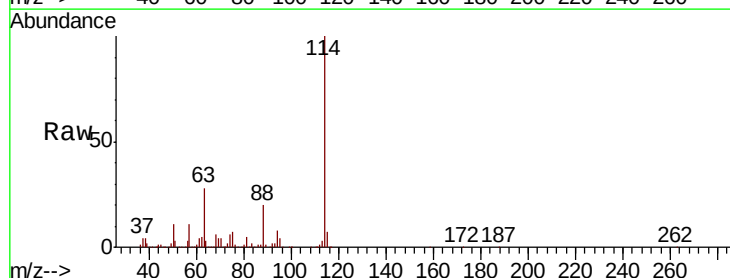
Manual Integrations
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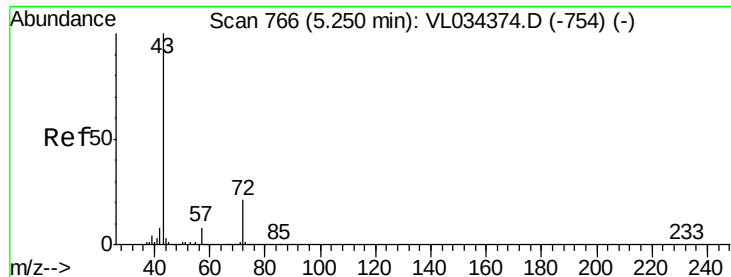
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.20 min Scan# 1374
Delta R.T. 0.00 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Tgt Ion	Ratio	Lower	Upper
114	100		
63	29.6	24.2	36.4
88	19.7	15.9	23.9





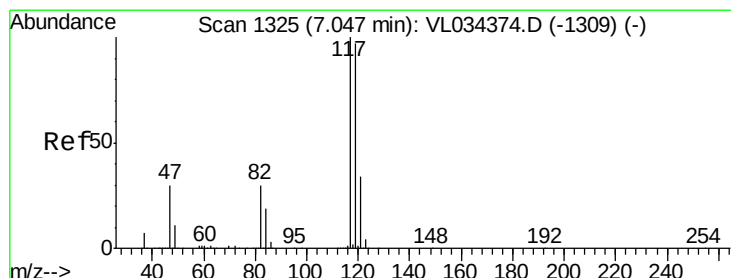
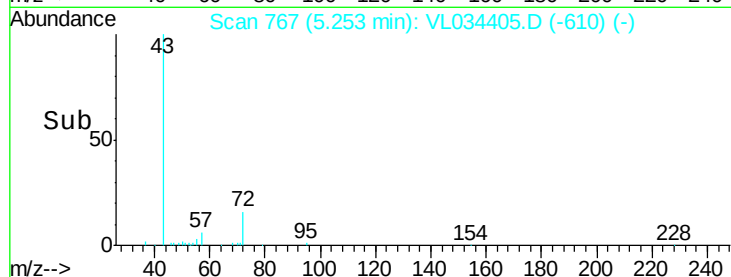
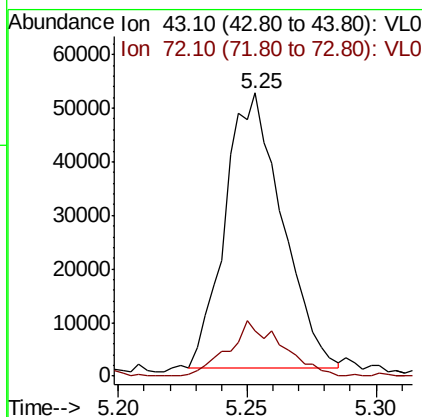
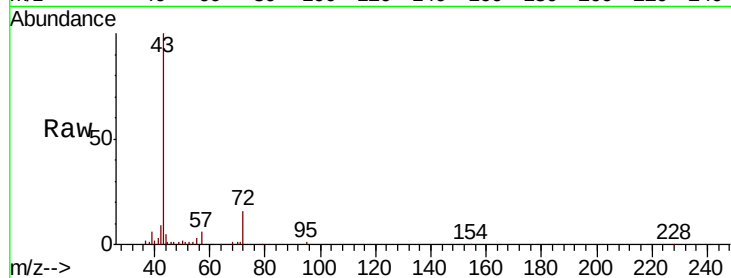
#34
2-Butanone
Concen: 0.475 ppbv
RT: 5.25 min Scan# 767
Delta R.T. 0.00 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Instrument :
MSVOA_L
ClientSampled :
1DUP

Tot Ion	43	Resp	79290
Ion Ratio	Lower	Upper	
43	100		
72	19.1	17.0	25.6

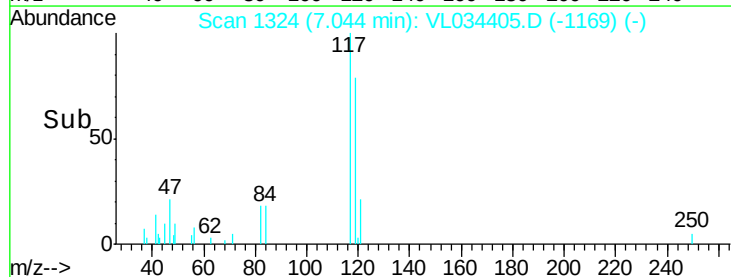
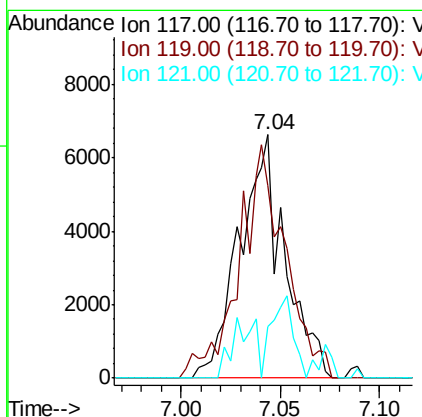
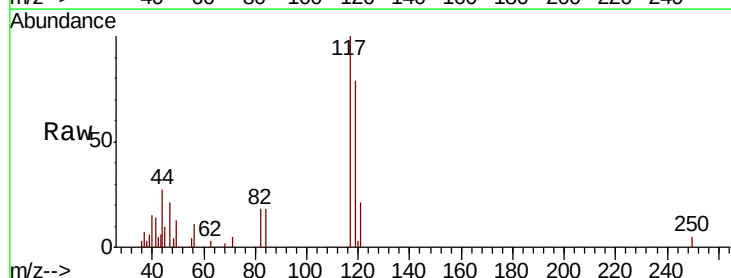
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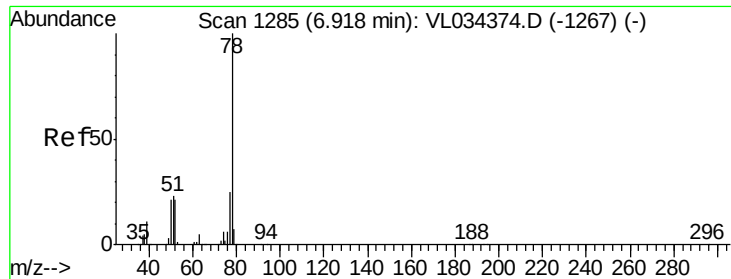
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12/2/2019 10:03:33 AM



#35
Carbon Tetrachloride
Concen: 0.061 ppbv m
RT: 7.04 min Scan# 1324
Delta R.T. -0.00 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Tgt Ion	117	Resp	10624
Ion Ratio	Lower	Upper	
117	100		
119	79.2	77.3	115.9
121	21.2	27.4	41.2#





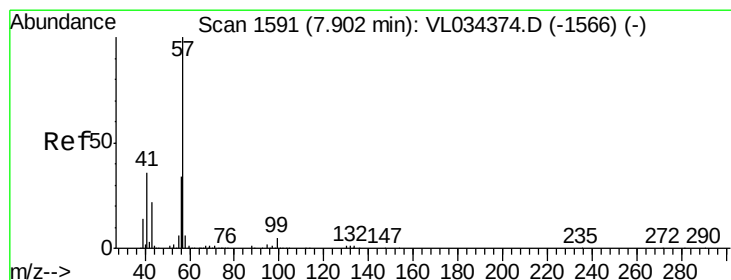
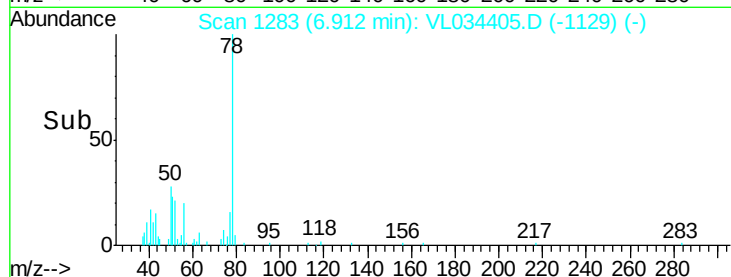
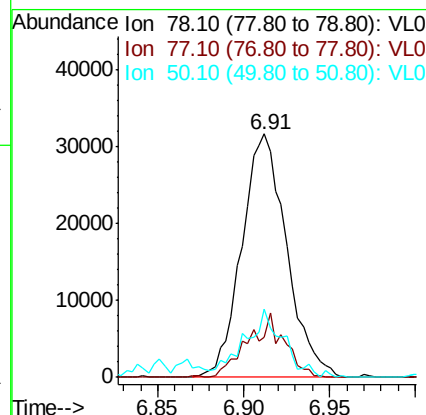
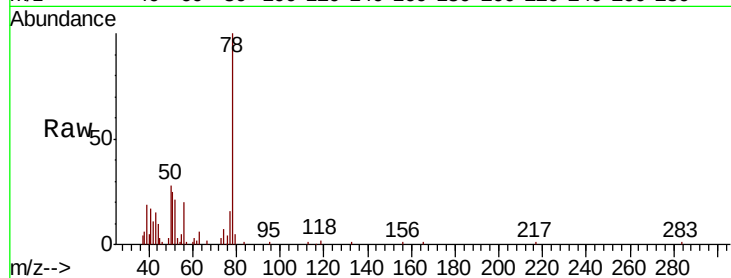
#36
Benzene
Concen: 0.281 ppbv
RT: 6.91 min Scan# 1283
Delta R.T. -0.01 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Instrument :
MSVOA_L
ClientSampled :
1DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	16.4	20.2	30.4#
50	27.6	17.1	25.7#

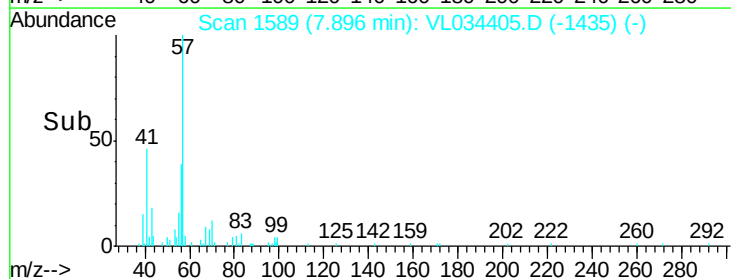
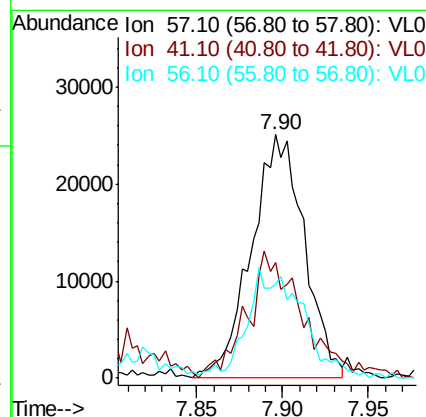
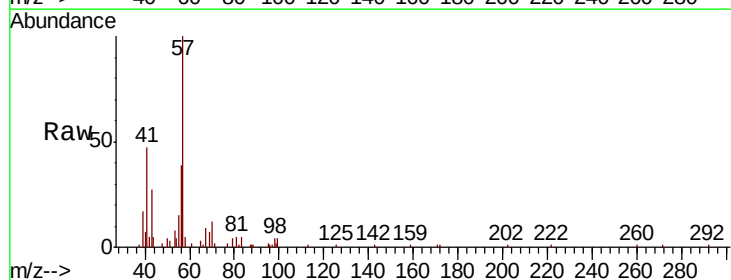
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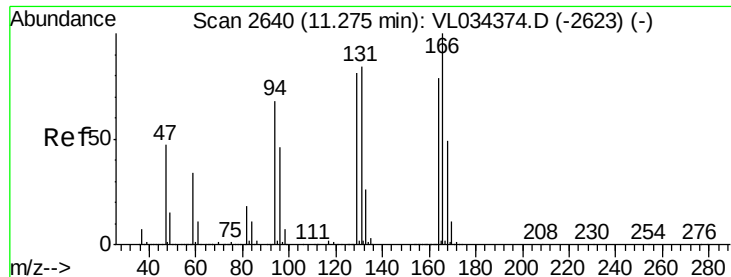
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#44
2,2,4-Trimethylpentane
Concen: 0.144 ppbv
RT: 7.90 min Scan# 1589
Delta R.T. -0.01 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Tgt Ion	Ratio	Lower	Upper
57	100		
41	55.9	28.6	42.8#
56	47.9	25.3	37.9#





#52

Tetrachloroethene

Concen: 0.099 ppbv m

RT: 11.27 min Scan# 2639

Delta R.T. -0.00 min

Lab File: VL034405.D

Acq: 25 Nov 2019 14:24

Instrument :

MSVOA_L

ClientSampled :

1DUP

Tot Ion:164 Resp: 8668

Ion Ratio Lower Upper

164 100

166 87.5 101.7 152.5#

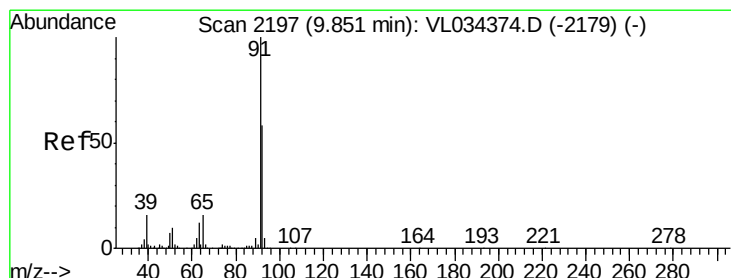
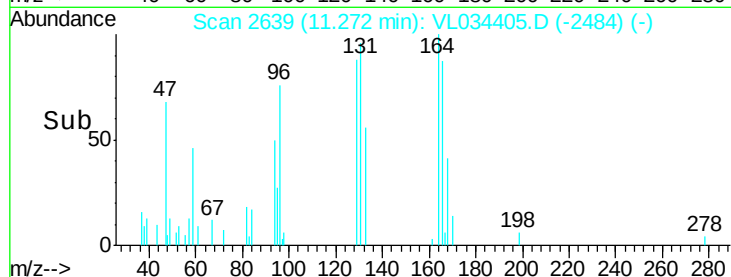
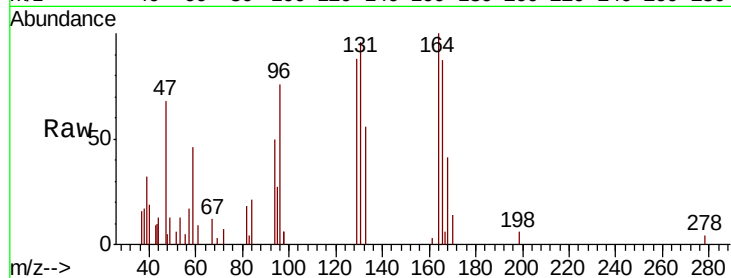
129 88.4 82.6 123.8

131 95.6 85.2 127.8

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12/2/2019 10:03:33 AM



#53

Toluene

Concen: 3.343 ppbv

RT: 9.85 min Scan# 2196

Delta R.T. -0.00 min

Lab File: VL034405.D

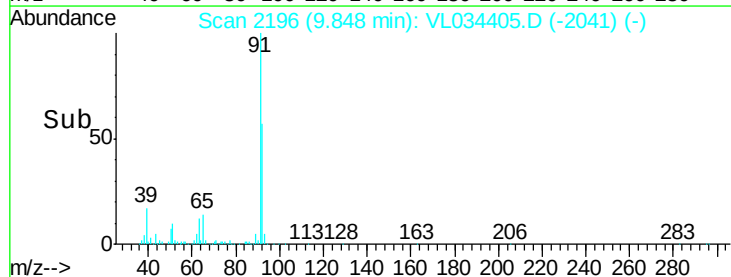
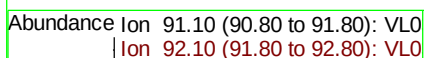
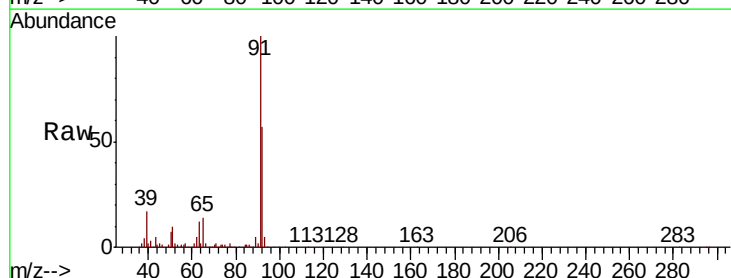
Acq: 25 Nov 2019 14:24

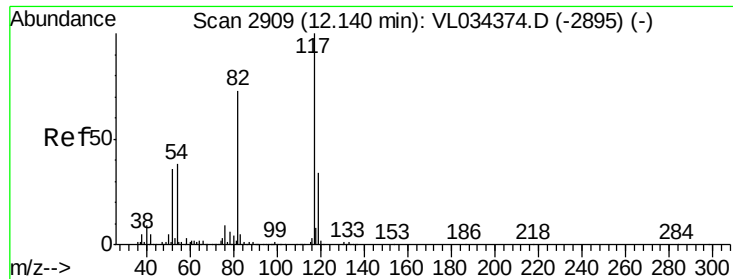
Tgt Ion: 91 Resp: 770592

Ion Ratio Lower Upper

91 100

92 58.6 47.9 71.9





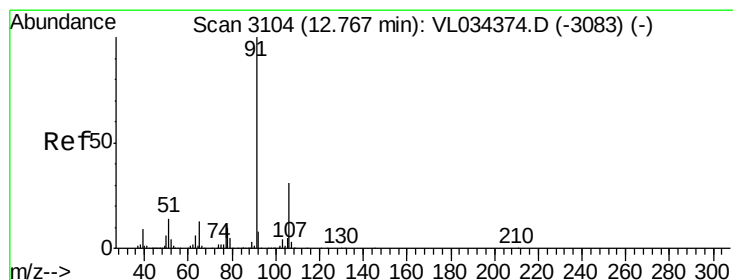
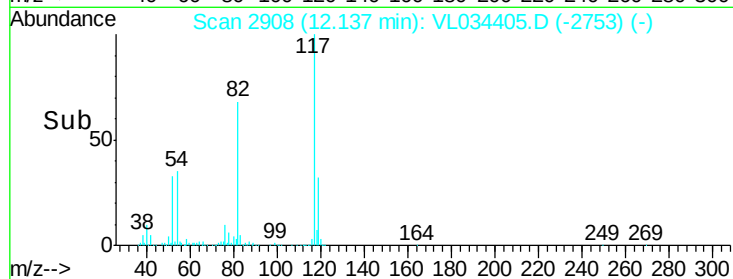
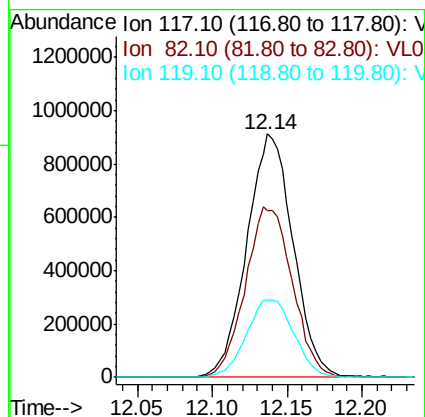
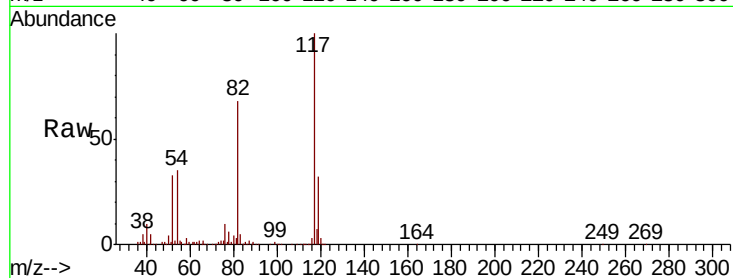
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.14 min Scan# 2908
Delta R.T. -0.00 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Instrument :
MSVOA_L
ClientSampleId :
1DUP

Tot Ion	Ratio	Lower	Upper
117	100		
82	71.5	57.5	86.3
119	33.1	25.4	38.2

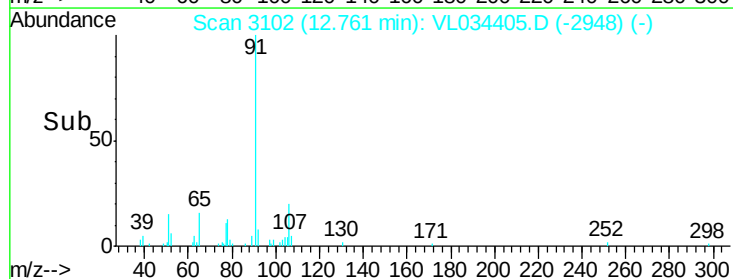
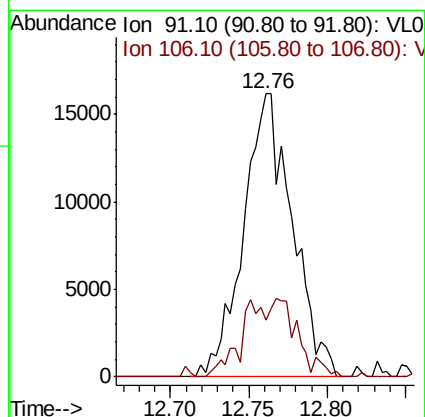
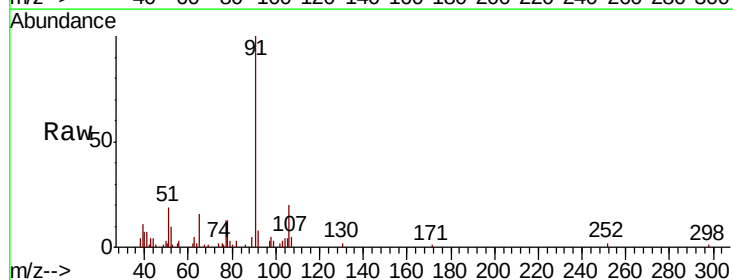
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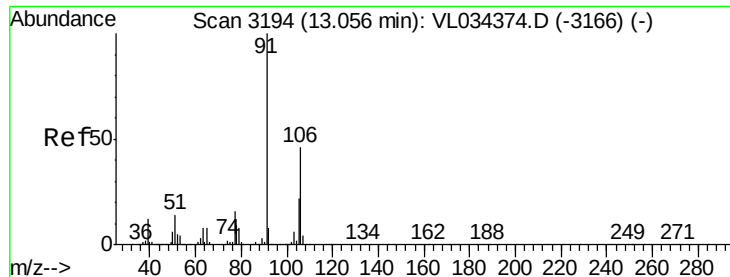
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#58
Ethyl Benzene
Concen: 0.115 ppbv m
RT: 12.76 min Scan# 3102
Delta R.T. -0.01 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Tgt Ion	Ratio	Lower	Upper
91	100		
106	20.0	24.8	37.2#





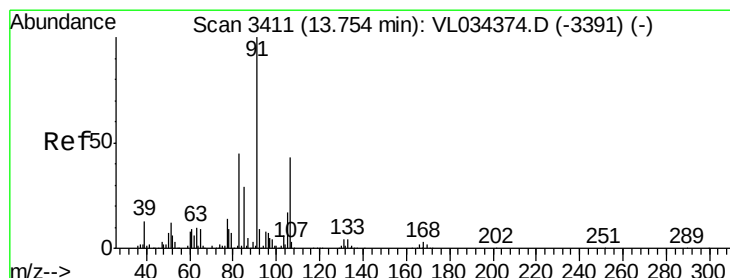
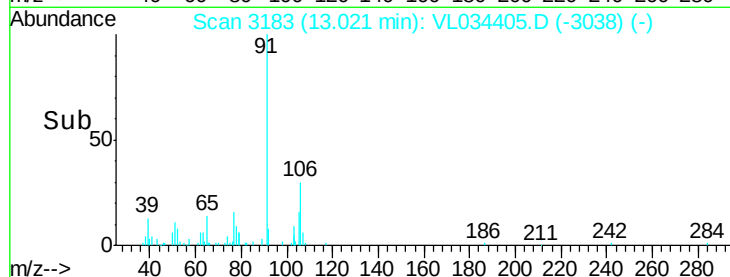
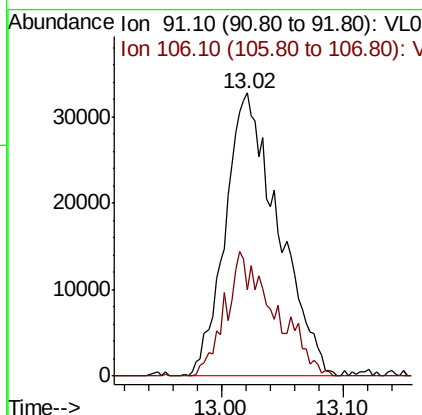
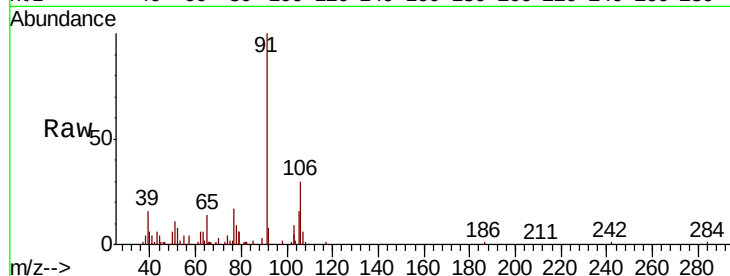
#59
m/p-Xylene
Concen: 0.379 ppbv m
RT: 13.02 min Scan# 3183
Delta R.T. -0.04 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Instrument :
MSVOA_L
ClientSampled :
1DUP

Tot Ion: 91 Resp: 99457
Ion Ratio Lower Upper
91 100
106 0.0 34.6 51.8#

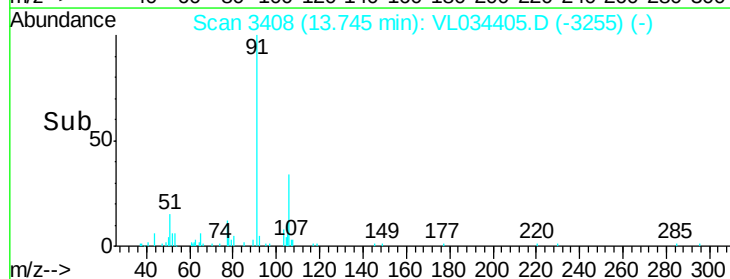
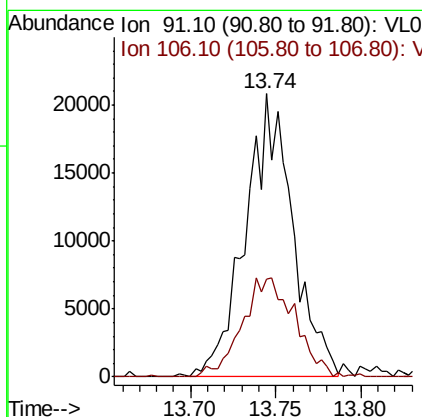
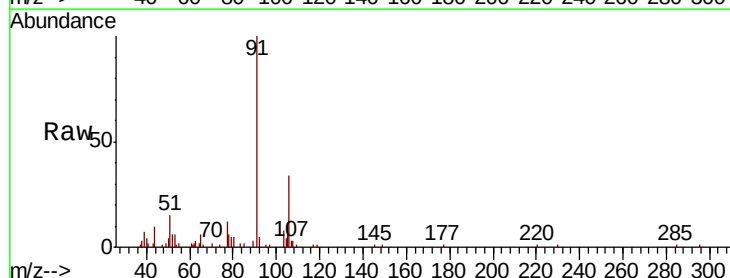
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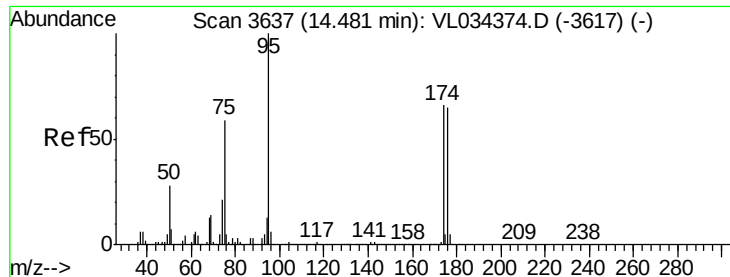
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#60
o-Xylene
Concen: 0.155 ppbv m
RT: 13.74 min Scan# 3408
Delta R.T. -0.01 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Tgt Ion: 91 Resp: 40149
Ion Ratio Lower Upper
91 100
106 0.0 21.3 64.0#





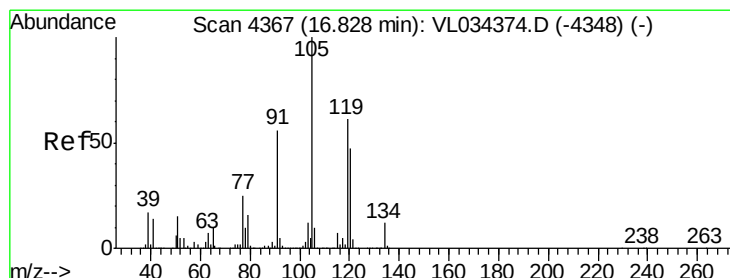
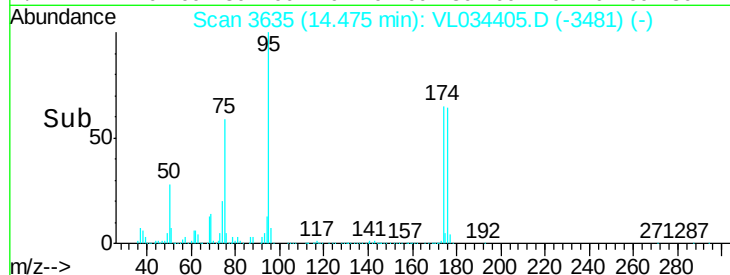
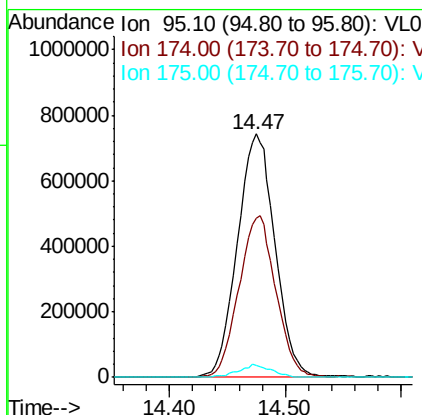
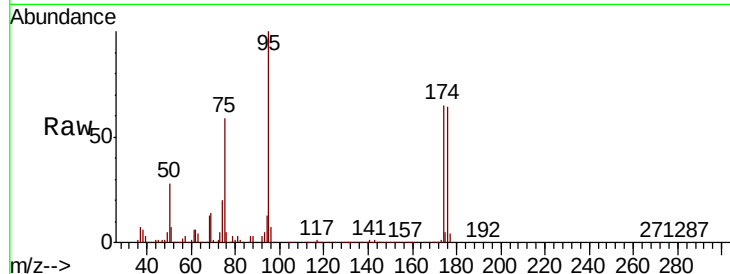
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.148 ppbv
 RT: 14.47 min Scan# 3635
 Delta R.T. -0.01 min
 Lab File: VL034405.D
 Acq: 25 Nov 2019 14:24

Instrument :
 MSVOA_L
 ClientSampleId :
 1DUP

Tot Ion: 95 Resp: 1669596
 Ion Ratio Lower Upper
 95 100
 174 65.4 52.2 78.2
 175 4.6 3.8 5.8

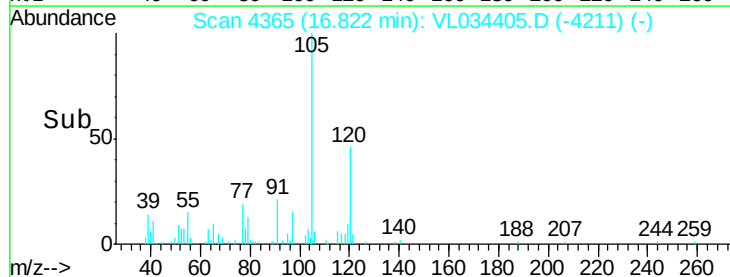
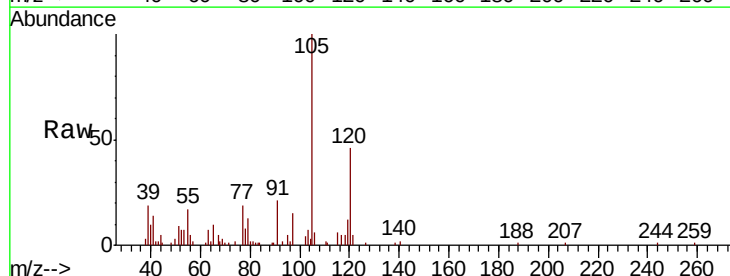
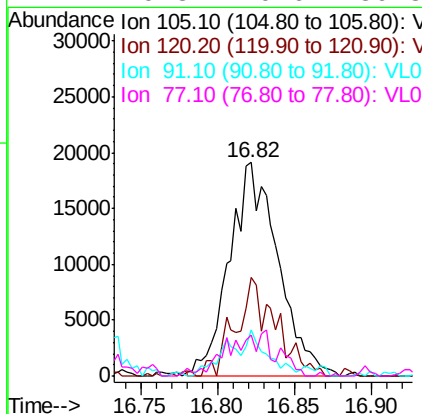
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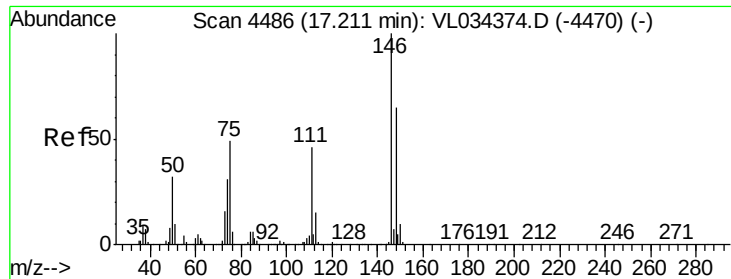
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#74
 1,2,4-Trimethylbenzene
 Concen: 0.135 ppbv m
 RT: 16.82 min Scan# 4365
 Delta R.T. -0.01 min
 Lab File: VL034405.D
 Acq: 25 Nov 2019 14:24

Tgt Ion: 105 Resp: 42042
 Ion Ratio Lower Upper
 105 100
 120 46.3 37.4 56.0
 91 21.3 46.3 69.5#
 77 19.3 20.6 30.8#





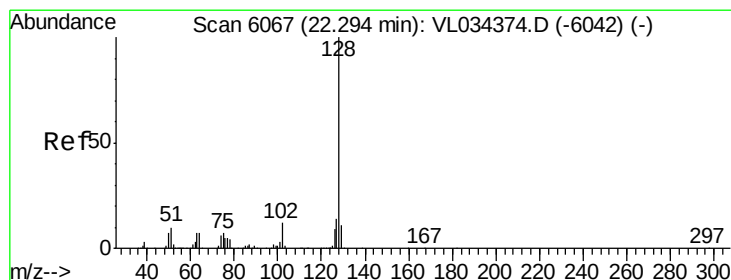
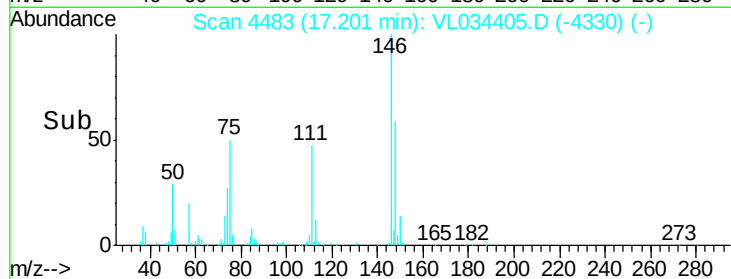
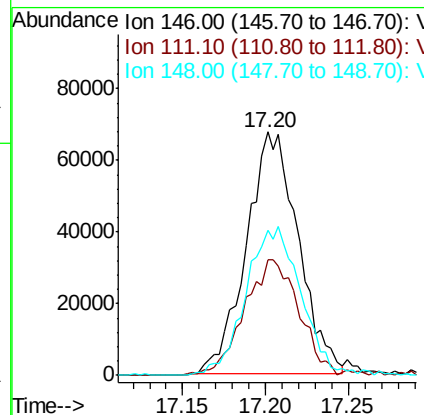
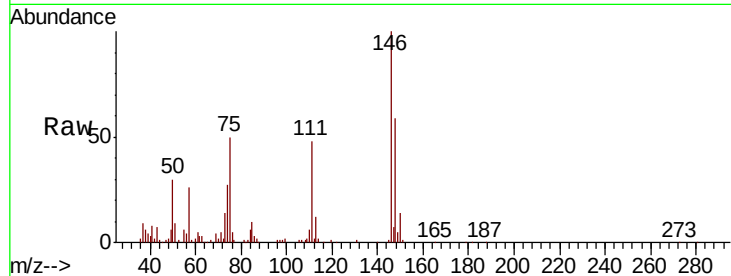
#76
1,4-Dichlorobenzene
Concen: 0.847 ppbv
RT: 17.20 min Scan# 4483
Delta R.T. -0.01 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Instrument :
MSVOA_L
ClientSampled :
1DUP

Tot Ion	Ratio	Lower	Upper
146	100		
111	51.6	24.1	72.3
148	64.9	32.9	98.6

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#79
Naphthalene
Concen: 0.098 ppbv m
RT: 22.29 min Scan# 6066
Delta R.T. -0.00 min
Lab File: VL034405.D
Acq: 25 Nov 2019 14:24

Tgt Ion	Ratio	Lower	Upper
128	100		
127	8.5	11.0	16.6#
129	20.7	8.9	13.3#

