

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031819\
 Data File : VL033371.D
 Acq On : 18 Mar 2019 23:21
 Operator : SY/AP
 Sample : K1952-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA1DUP

Manual Integrations
 APPROVED

MMDadoda
 3/21/2019 12:15:11 PM

Quant Time: Mar 19 08:11:20 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 1
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	723481	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1594921	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1433472	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1158714	10.91	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	61919	0.487	ppbv	89
3) Chlorodifluoromethane	3.02	51	27642m	0.333	ppbv	
4) Chloromethane	3.17	50	24884m	0.553	ppbv	
9) Propene	3.05	41	47382	1.278	ppbv #	65
10) Heptane	8.25	43	13245m	0.144	ppbv	
11) Trichlorofluoromethane	4.00	101	31721	0.250	ppbv	91
13) Ethanol	3.68	45	9574179	541.781	ppbv	99
15) Acetone	3.90	43	492931	4.383	ppbv	92
20) Methylene Chloride	4.41	84	73085	1.993	ppbv	97
26) Hexane	5.78	57	79040	1.081	ppbv #	62
34) 2-Butanone	5.33	43	41493	0.396	ppbv	99
35) Carbon Tetrachloride	7.13	117	8447m	0.075	ppbv	
36) Benzene	7.00	78	38129	0.267	ppbv	97
52) Tetrachloroethene	11.37	164	7768m	0.131	ppbv	
53) Toluene	9.94	91	2314426	14.270	ppbv	99
59) m/p-Xylene	13.12	91	37286m	0.214	ppbv	
74) 1,2,4-Trimethylbenzene	16.92	105	31764m	0.159	ppbv	

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

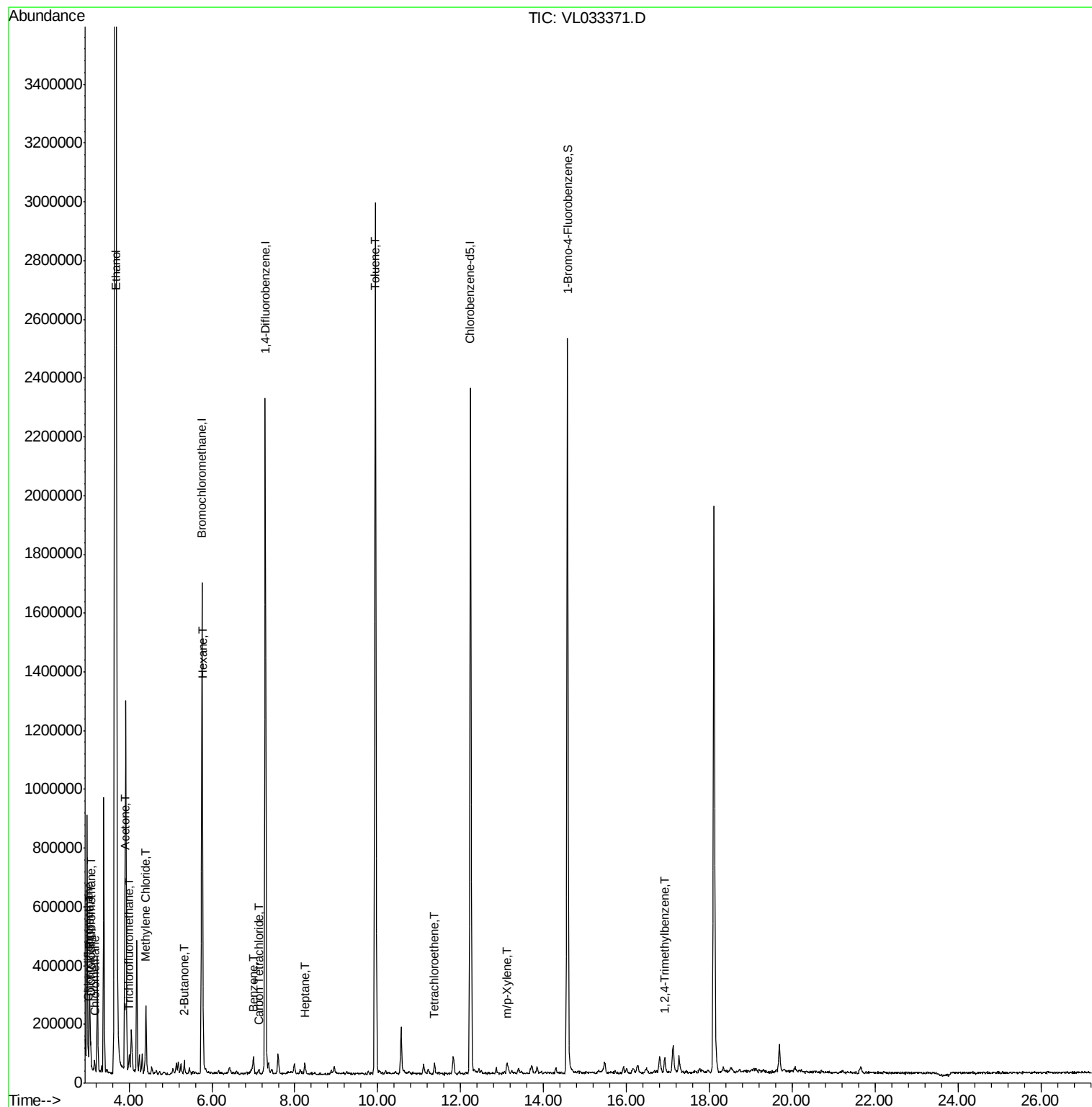
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031819\
Data File : VL033371.D
Acq On : 18 Mar 2019 23:21
Operator : SY/AP
Sample : K1952-01DUP
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

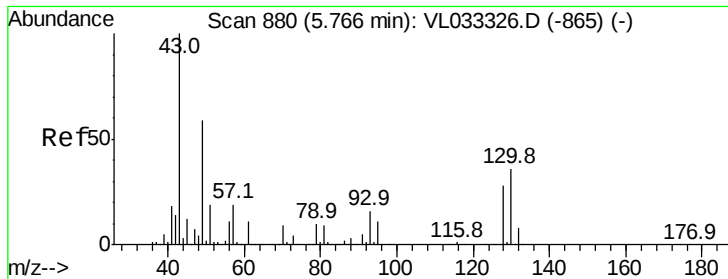
Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA1DUP

Manual Integrations
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3/21/2019 12:15:11 PM

Quant Time: Mar 19 08:11:20 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

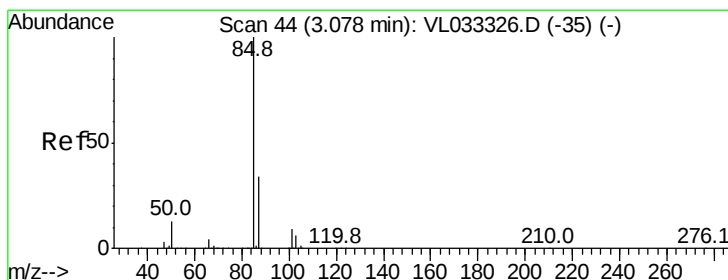
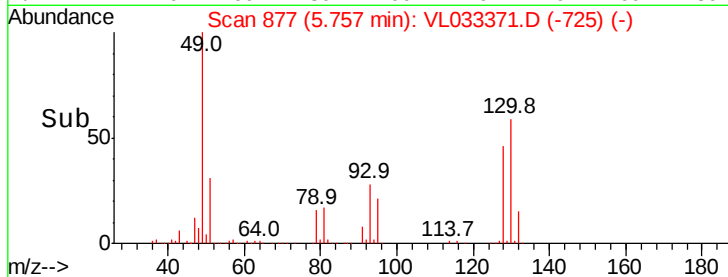
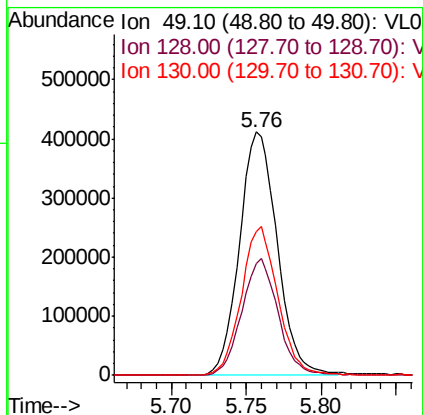
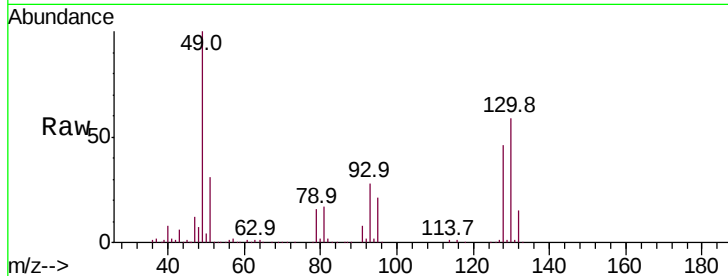
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 877
Delta R.T. -0.01 min
Lab File: VL033371.D
Acq: 18 Mar 2019 23:21

Instrument :
MSVOA_L
ClientSampled :
L1HA-IA1DUP

Tot Ion	Ratio	Lower	Upper
49	100		
128	46.5	23.5	70.6
130	59.4	30.1	90.3

Manual Integrations
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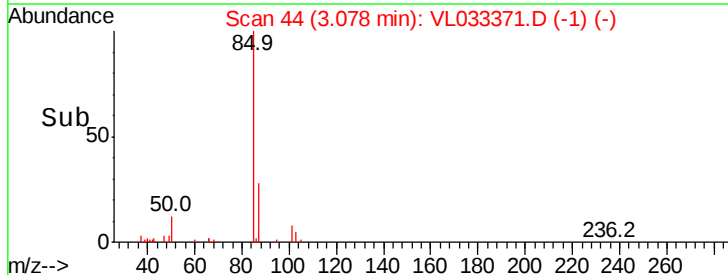
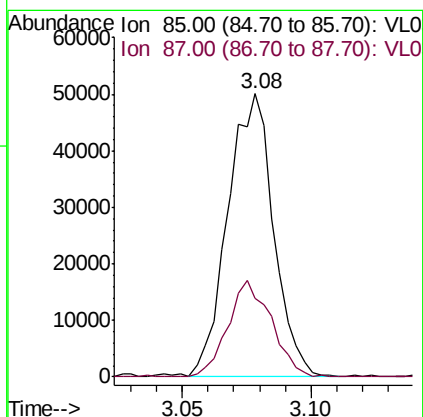
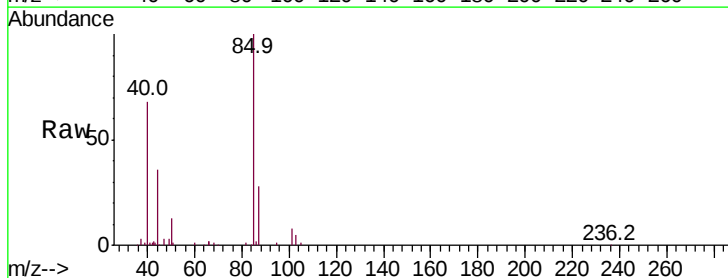
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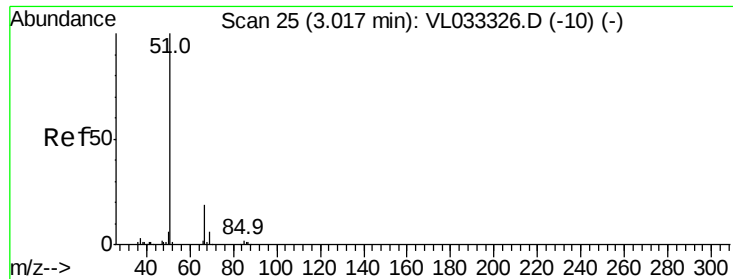


#2

Dichlorodifluoromethane
Concen: 0.487 ppbv
RT: 3.08 min Scan# 44
Delta R.T. -0.00 min
Lab File: VL033371.D
Acq: 18 Mar 2019 23:21

Tgt Ion	Ratio	Lower	Upper
85	100		
87	27.6	26.9	40.3





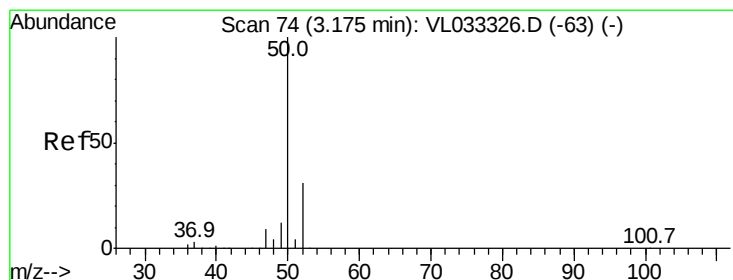
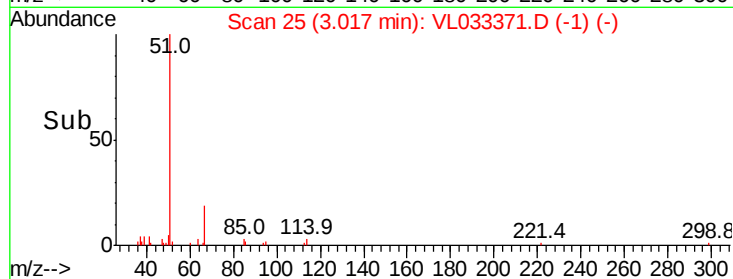
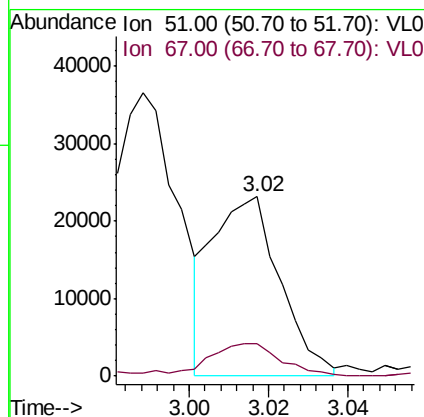
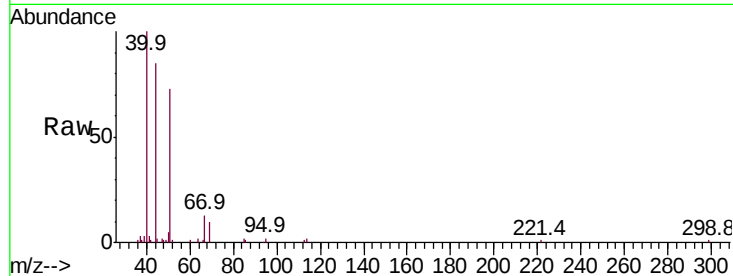
#3
Chlorodifluoromethane
Concen: 0.333 ppbv m
RT: 3.02 min Scan# 25
Delta R.T. -0.00 min
Lab File: VL033371.D
Acq: 18 Mar 2019 23:21

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA1DUP

Tot Ion: 51 Resp: 27642
Ion Ratio Lower Upper
51 100
67 20.7 14.9 22.3

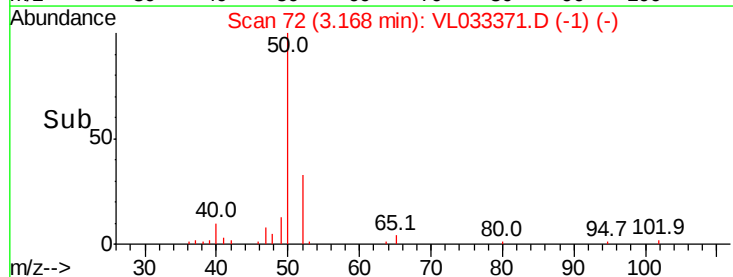
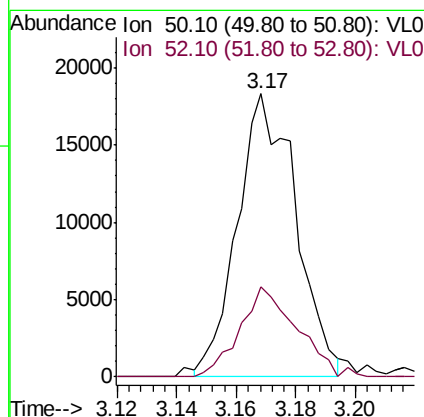
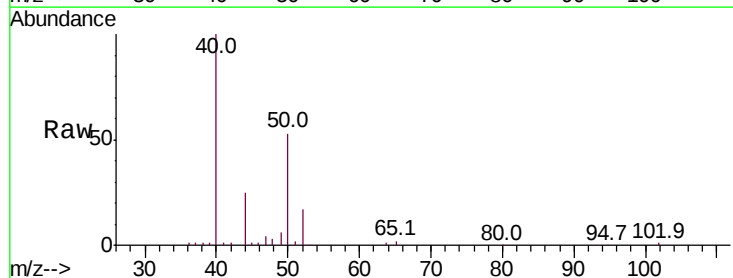
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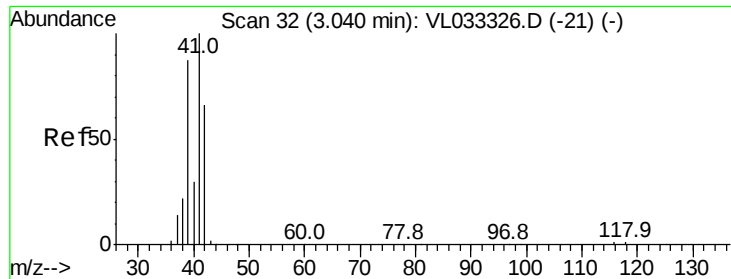
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#4
Chloromethane
Concen: 0.553 ppbv m
RT: 3.17 min Scan# 72
Delta R.T. -0.01 min
Lab File: VL033371.D
Acq: 18 Mar 2019 23:21

Tgt Ion: 50 Resp: 24884
Ion Ratio Lower Upper
50 100
52 32.0 25.0 37.6





#9

Propene

Concen: 1.278 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL033371.D

Acq: 18 Mar 2019 23:21

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA1DUP

Tot Ion: 41 Resp: 47382

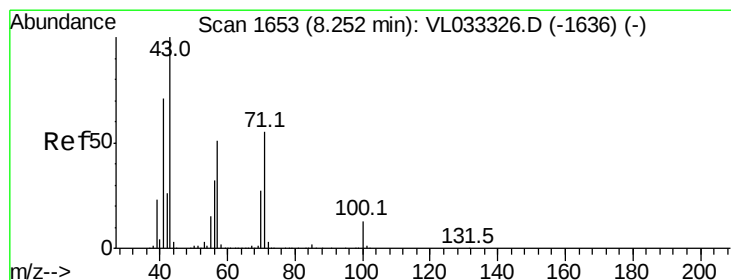
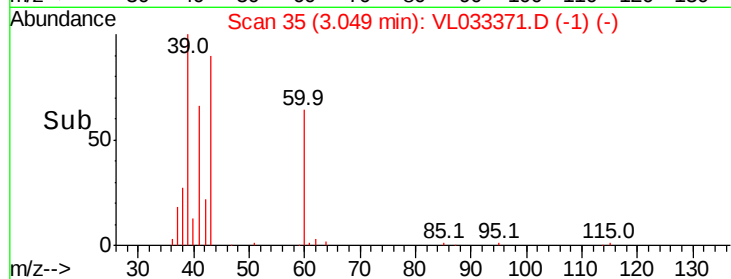
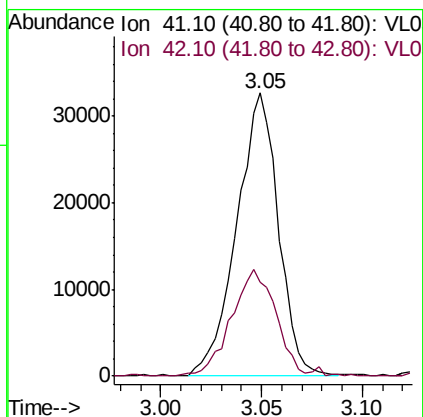
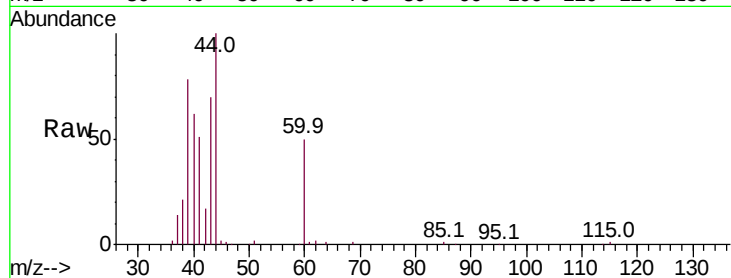
Ion Ratio Lower Upper

41 100

42 40.8 55.2 82.8#

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#10

Heptane

Concen: 0.144 ppbv m

RT: 8.25 min Scan# 1651

Delta R.T. -0.01 min

Lab File: VL033371.D

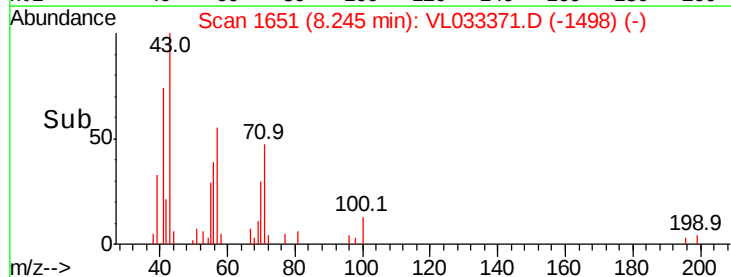
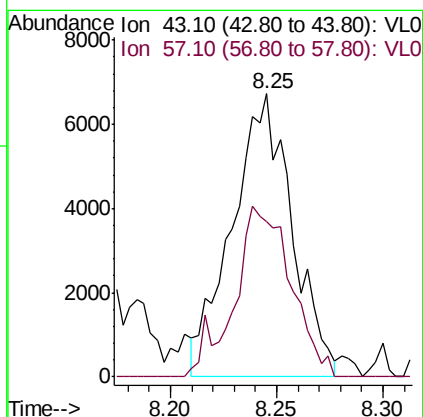
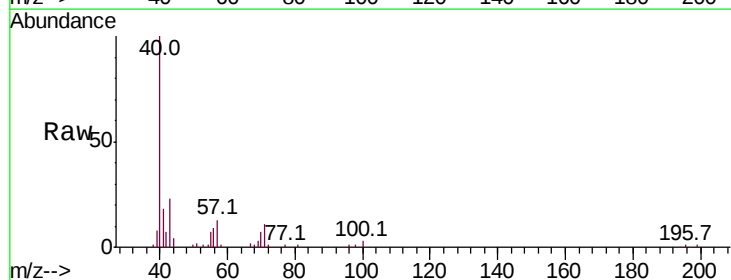
Acq: 18 Mar 2019 23:21

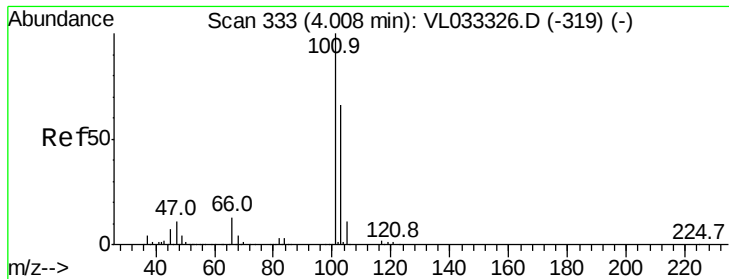
Tgt Ion: 43 Resp: 13245

Ion Ratio Lower Upper

43 100

57 56.9 40.4 60.6





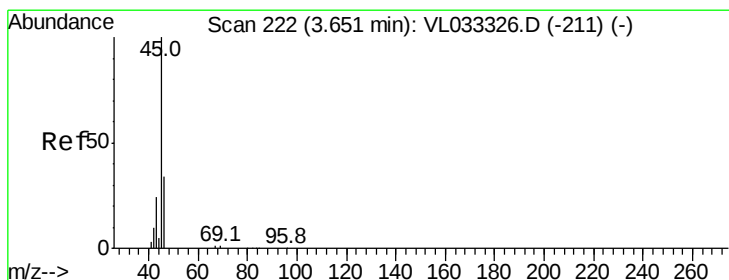
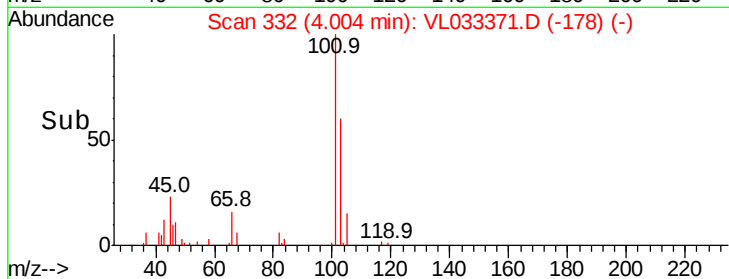
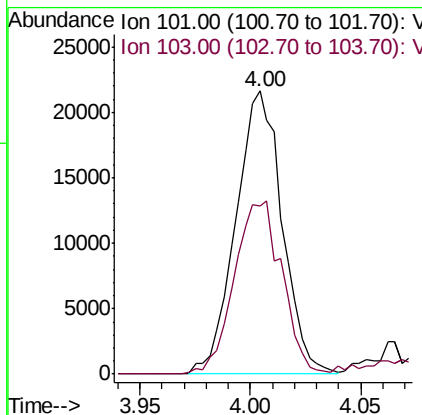
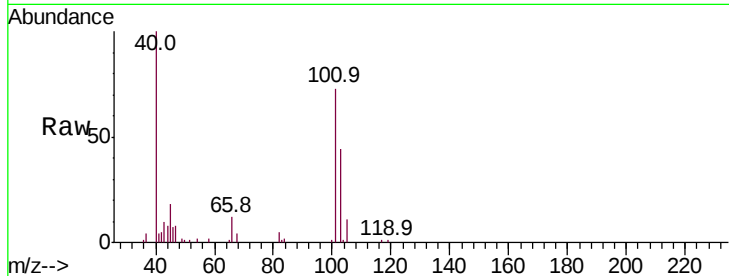
#11
Trichlorofluoromethane
Concen: 0.250 ppbv
RT: 4.00 min Scan# 332
Delta R.T. -0.00 min
Lab File: VL033371.D
Acq: 18 Mar 2019 23:21

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA1DUP

Tot Ion: 101 Resp: 31721
Ion Ratio Lower Upper
101 100
103 58.8 52.9 79.3

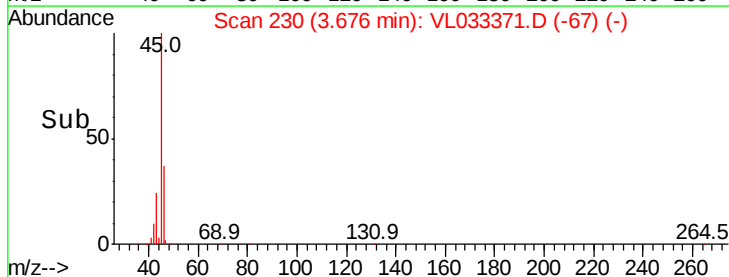
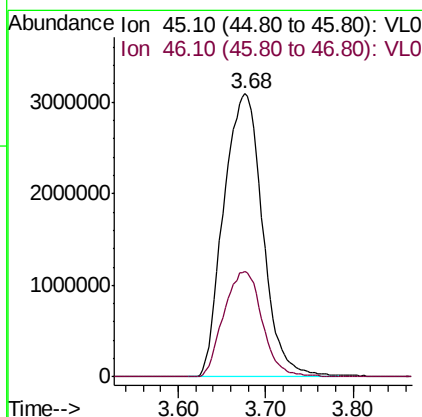
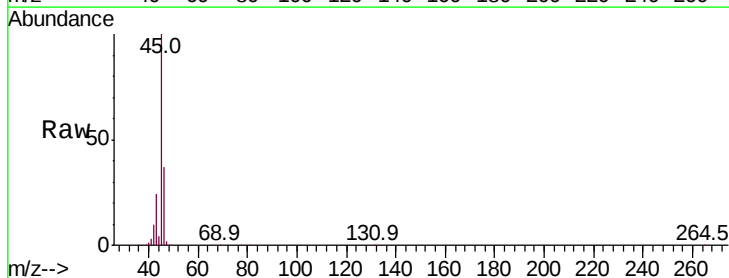
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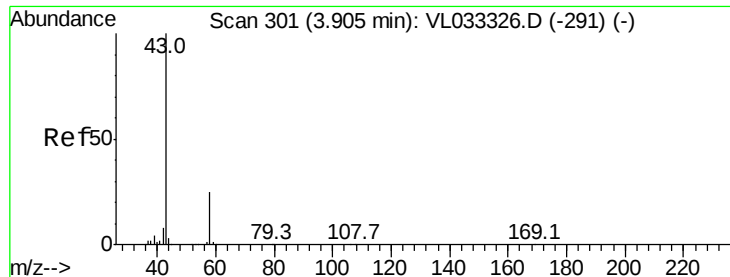
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#13
Ethanol
Concen: 541.781 ppbv
RT: 3.68 min Scan# 230
Delta R.T. 0.03 min
Lab File: VL033371.D
Acq: 18 Mar 2019 23:21

Tgt Ion: 45 Resp: 9574179
Ion Ratio Lower Upper
45 100
46 36.8 14.9 59.7





#15

Acetone

Concen: 4.383 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL033371.D

Acq: 18 Mar 2019 23:21

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA1DUP

Tot Ion: 43 Resp: 492931

Ion Ratio Lower Upper

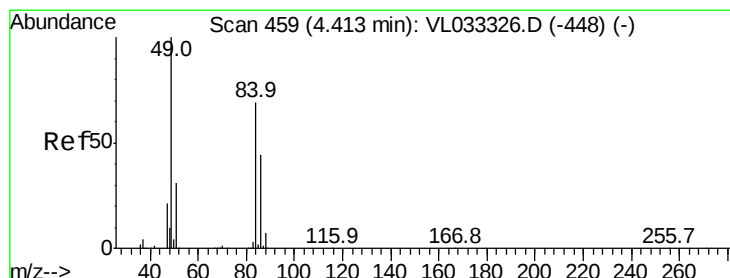
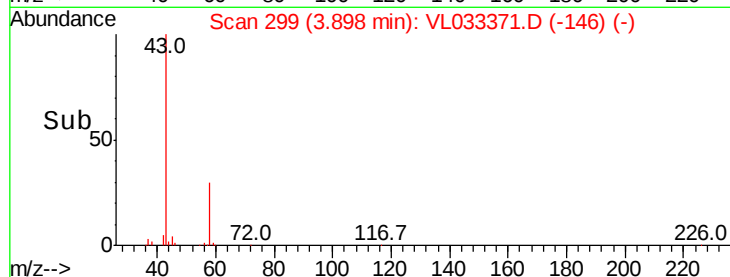
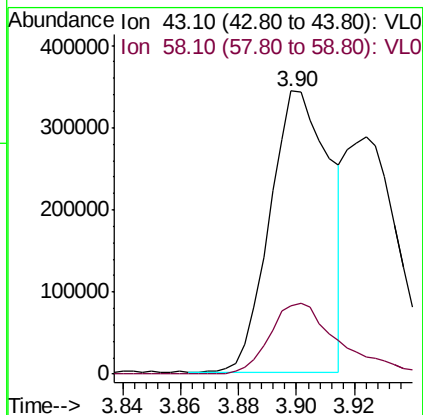
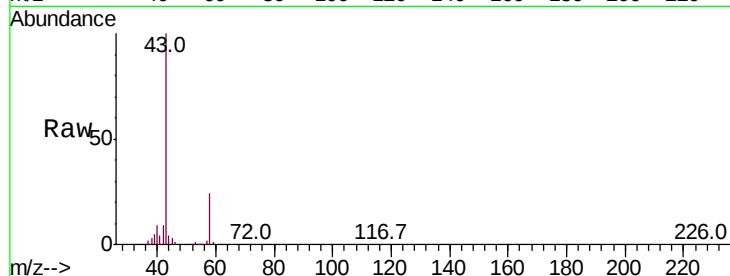
43 100

58 29.3 20.4 30.6

Manual Integrations
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#20

Methylene Chloride

Concen: 1.993 ppbv

RT: 4.41 min Scan# 457

Delta R.T. -0.01 min

Lab File: VL033371.D

Acq: 18 Mar 2019 23:21

Tgt Ion: 84 Resp: 73085

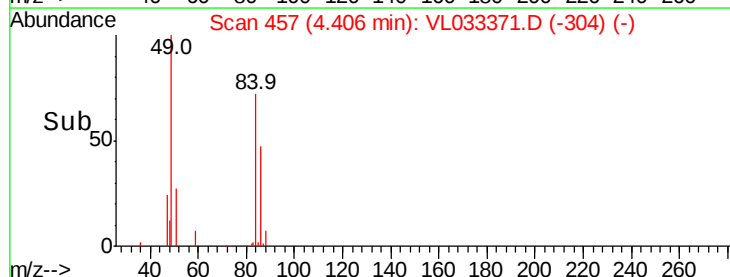
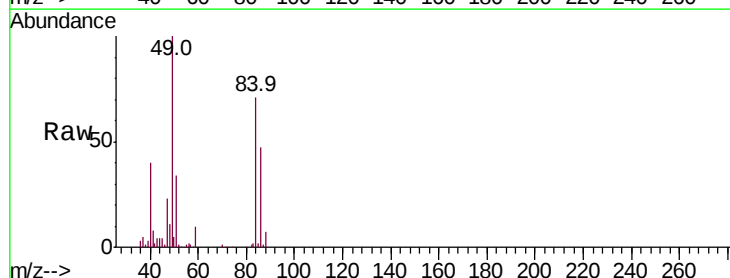
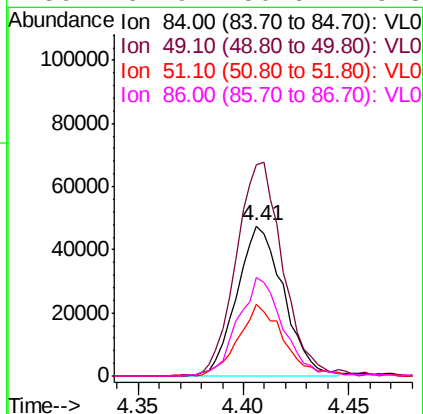
Ion Ratio Lower Upper

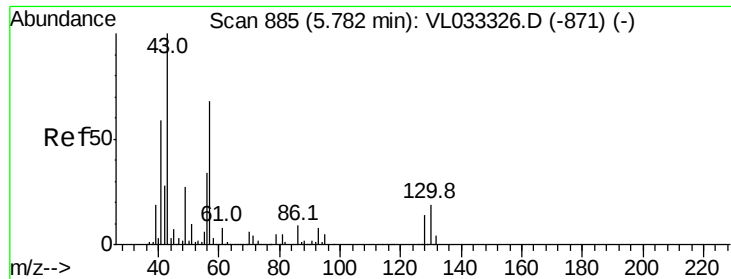
84 100

49 139.5 115.4 173.0

51 46.5 35.8 53.6

86 64.9 50.6 75.8





#26

Hexane

Concen: 1.081 ppbv

RT: 5.78 min Scan# 884

Delta R.T. -0.00 min

Lab File: VL033371.D

Acq: 18 Mar 2019 23:21

Instrument :

MSVOA_L

ClientSampleId :

L1HA-IA1DUP

Tot Ion: 57 Resp: 79040

Ion Ratio Lower Upper

57 100

41 96.9 70.5 105.7

43 134.6 181.8 272.8#

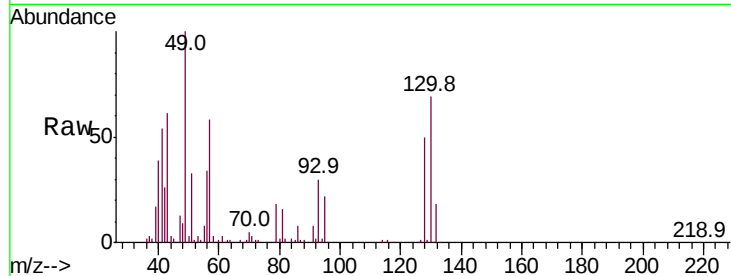
56 58.5 42.2 63.2

Manual Integrations

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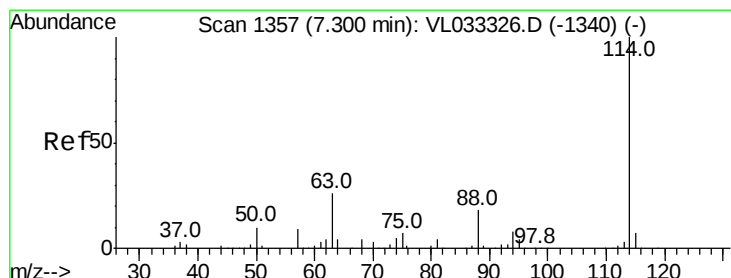
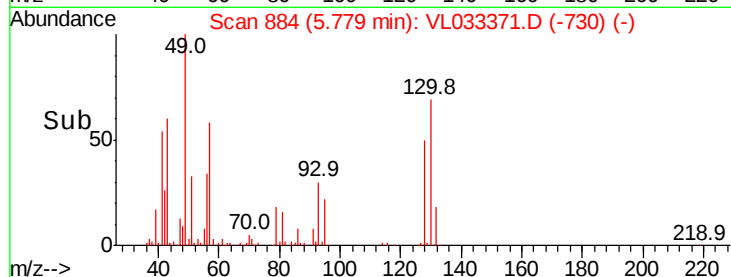
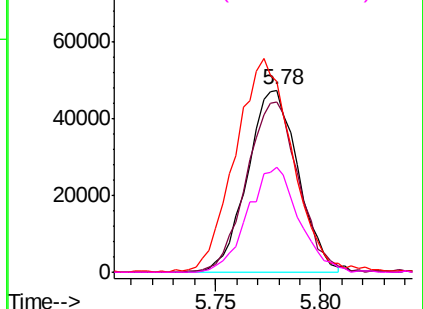
Abundance

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: 7.29 min Scan# 1353

Delta R.T. -0.01 min

Lab File: VL033371.D

Acq: 18 Mar 2019 23:21

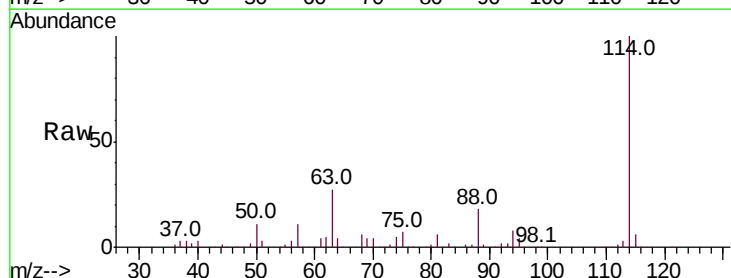
Tgt Ion: 114 Resp: 1594921

Ion Ratio Lower Upper

114 100

63 26.8 21.4 32.2

88 18.3 14.5 21.7

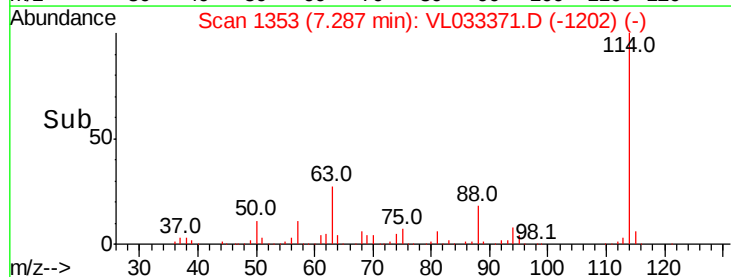
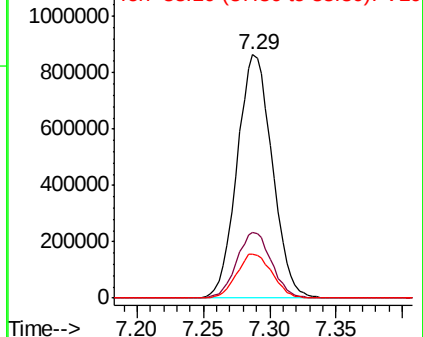


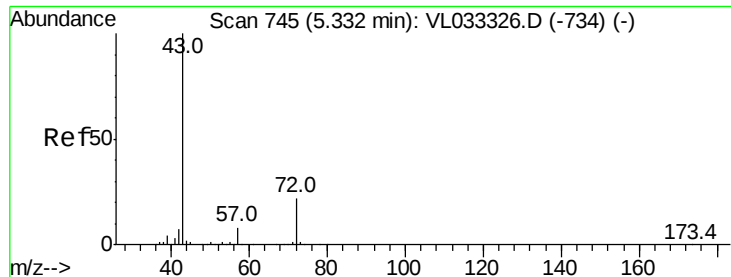
Abundance

Ion 114.10 (113.80 to 114.80): VL0

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





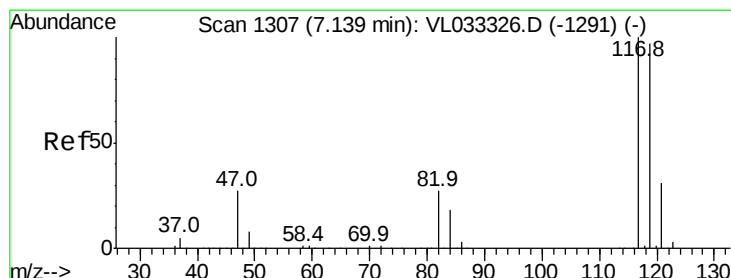
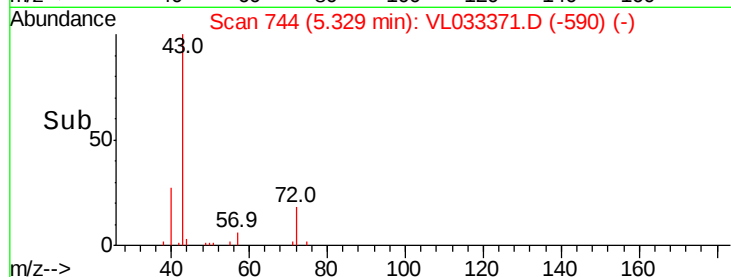
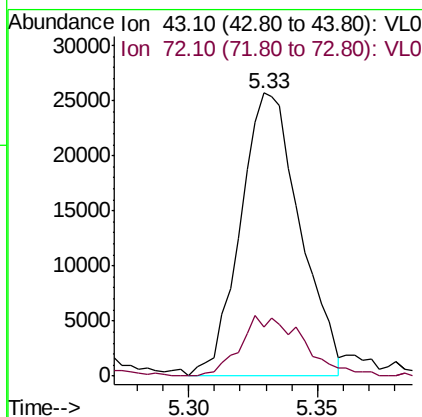
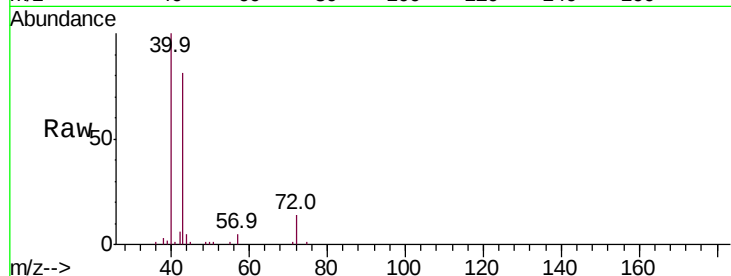
#34
2-Butanone
Concen: 0.396 ppbv
RT: 5.33 min Scan# 744
Delta R.T. -0.00 min
Lab File: VL033371.D
Acq: 18 Mar 2019 23:21

Instrument :
MSVOA_L
ClientSampled :
L1HA-IA1DUP

Tot Ion: 43 Resp: 41493
Ion Ratio Lower Upper
43 100
72 22.7 17.7 26.5

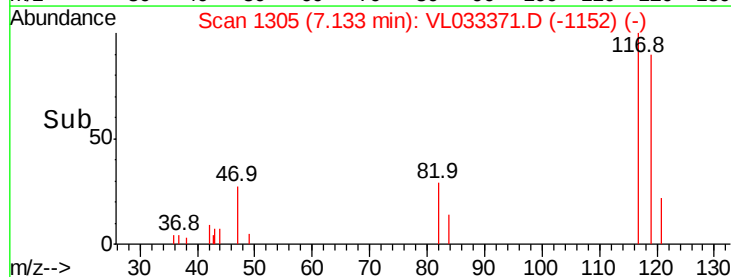
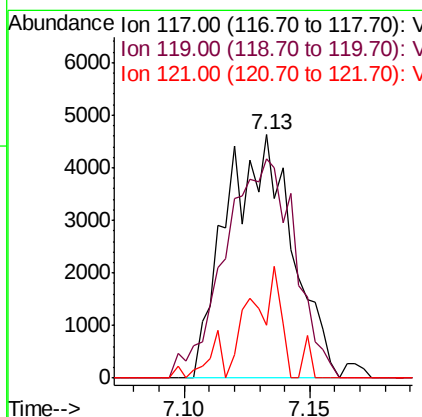
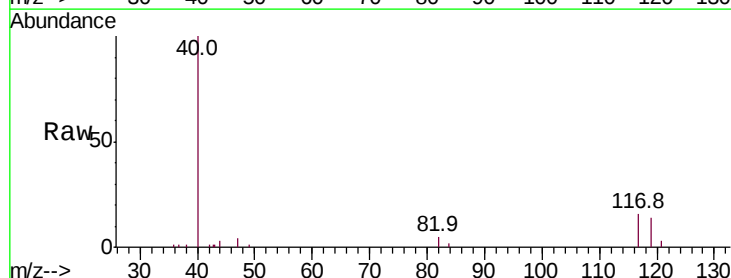
Manual Integrations
APPROVED

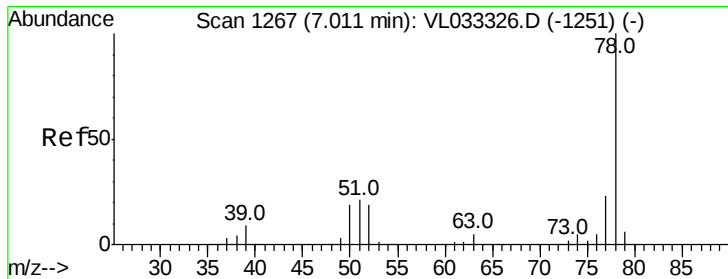
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#35
Carbon Tetrachloride
Concen: 0.075 ppbv m
RT: 7.13 min Scan# 1305
Delta R.T. -0.01 min
Lab File: VL033371.D
Acq: 18 Mar 2019 23:21

Tgt Ion: 117 Resp: 8447
Ion Ratio Lower Upper
117 100
119 90.3 77.4 116.0
121 22.0 24.9 37.3#





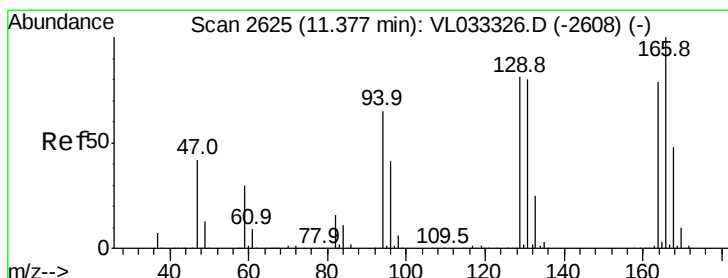
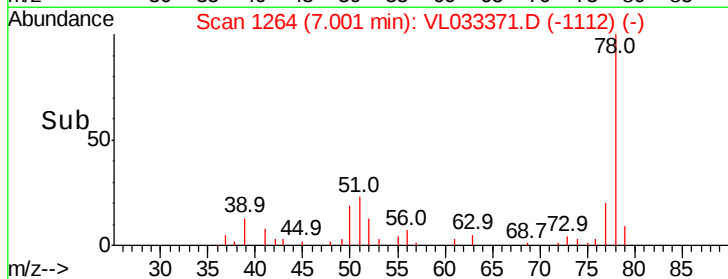
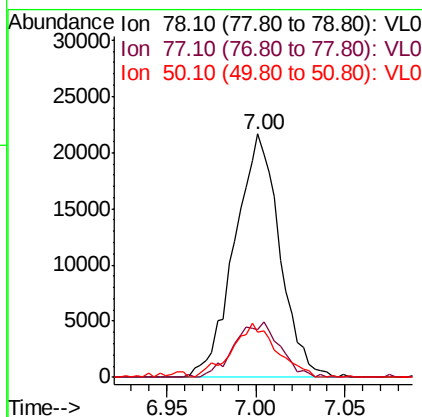
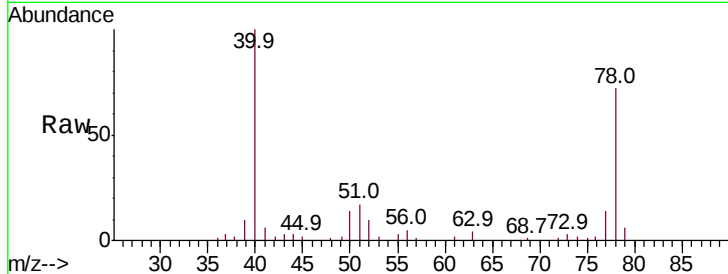
#36
Benzene
Concen: 0.267 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VL033371.D
Acq: 18 Mar 2019 23:21

Instrument :
MSVOA_L
ClientSampleId :
L1HA-IA1DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	19.7	18.1	27.1
50	18.8	15.2	22.8

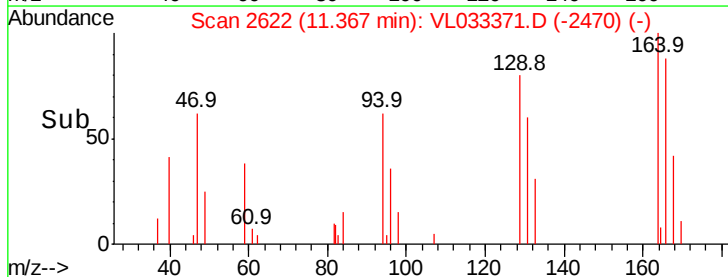
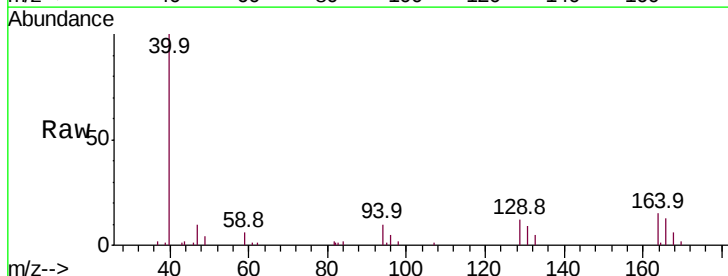
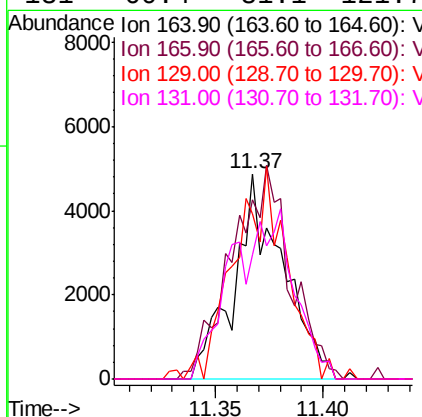
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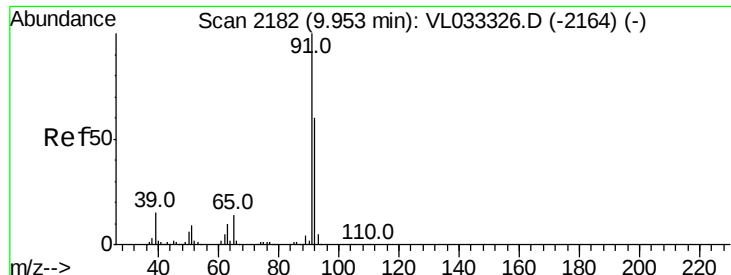
MMDadoda
3/21/2019 12:15:11 PM



#52
Tetrachloroethene
Concen: 0.131 ppbv m
RT: 11.37 min Scan# 2622
Delta R.T. -0.01 min
Lab File: VL033371.D
Acq: 18 Mar 2019 23:21

Tgt Ion	Ratio	Lower	Upper
164	100		
166	87.5	101.5	152.3#
129	80.5	82.2	123.2#
131	60.4	81.1	121.7#





#53

Toluene

Concen: 14.270 ppbv

RT: 9.94 min Scan# 2179

Delta R.T. -0.01 min

Lab File: VL033371.D

Acq: 18 Mar 2019 23:21

Instrument :

MSVOA_L

ClientSampled :

L1HA-IA1DUP

Tot Ion: 91 Resp: 2314426

Ion Ratio Lower Upper

91 100

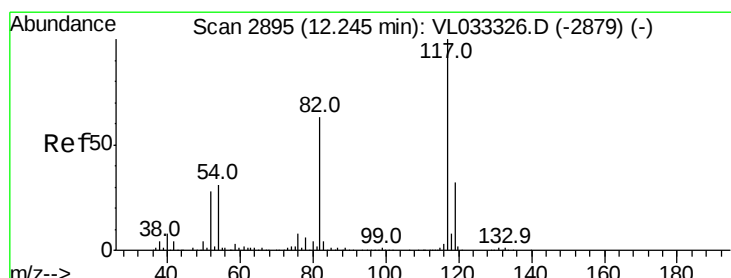
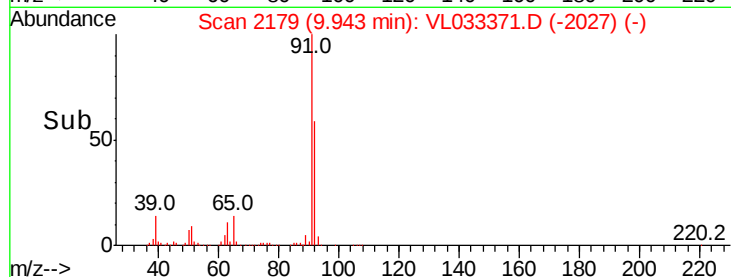
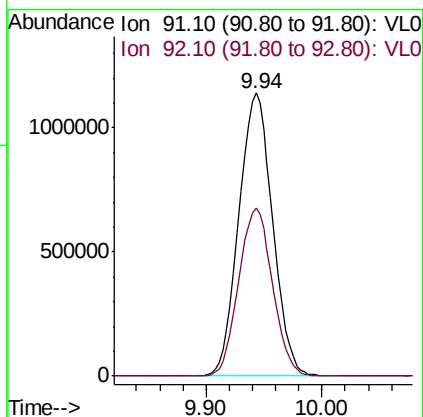
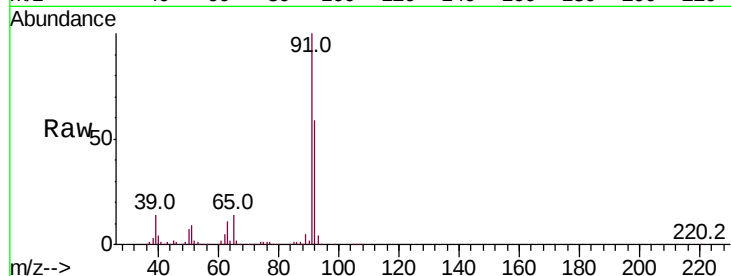
92 59.6 47.4 71.0

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#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.24 min Scan# 2892

Delta R.T. -0.01 min

Lab File: VL033371.D

Acq: 18 Mar 2019 23:21

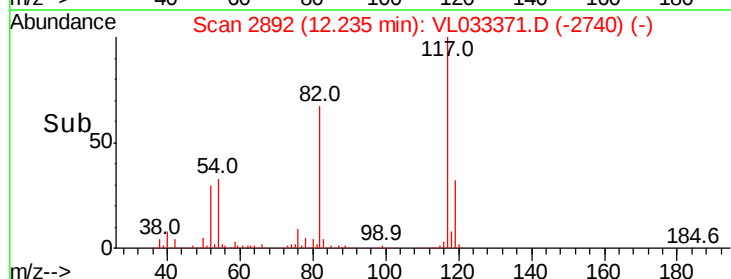
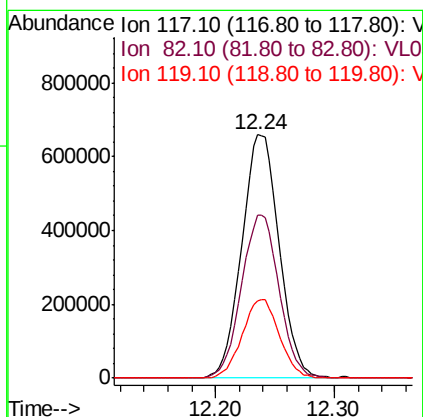
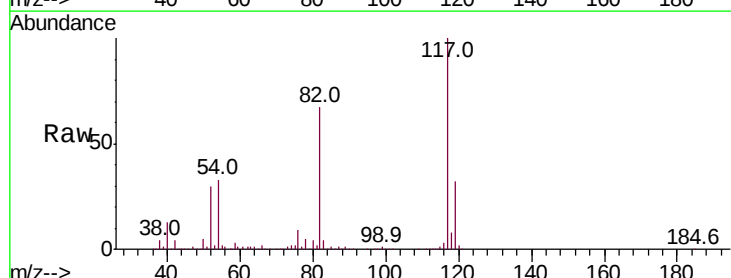
Tgt Ion: 117 Resp: 1433472

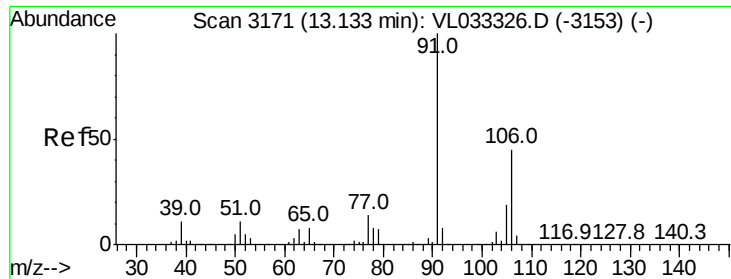
Ion Ratio Lower Upper

117 100

82 67.5 53.4 80.2

119 32.1 27.3 40.9





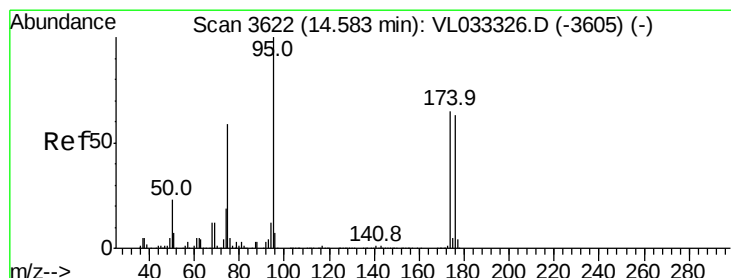
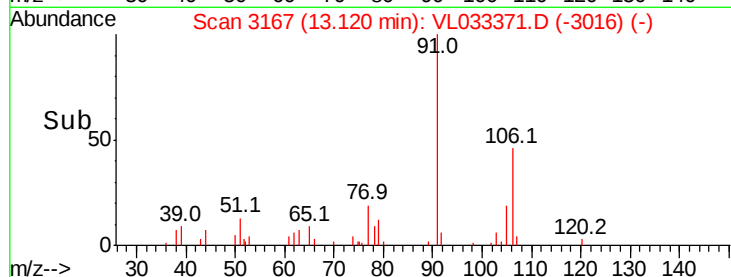
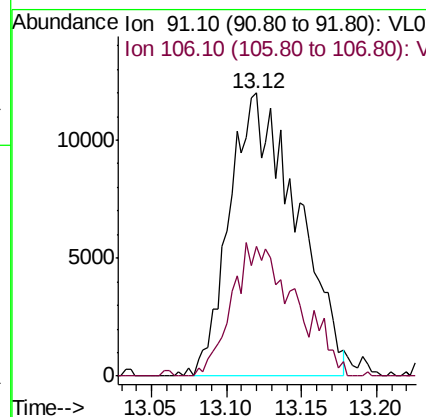
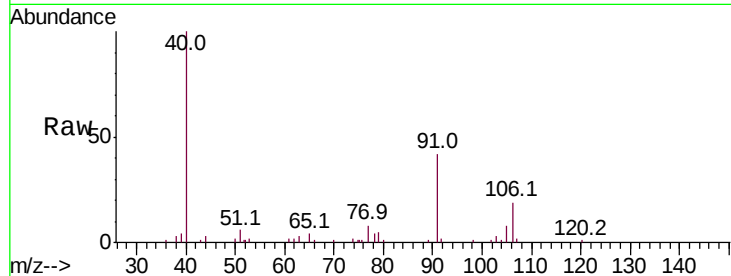
#59
m/p-Xylene
Concen: 0.214 ppbv m
RT: 13.12 min Scan# 3167
Delta R.T. -0.01 min
Lab File: VL033371.D
Acq: 18 Mar 2019 23:21

Instrument :
MSVOA_L
ClientSampled :
L1HA-IA1DUP

Tot Ion: 91 Resp: 37286
Ion Ratio Lower Upper
91 100
106 44.4 0.0 0.0#

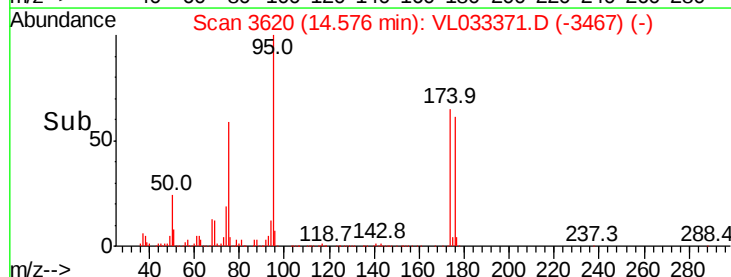
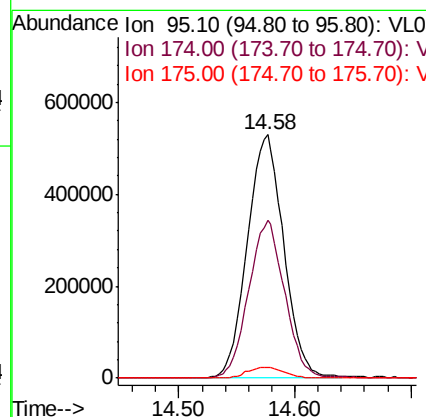
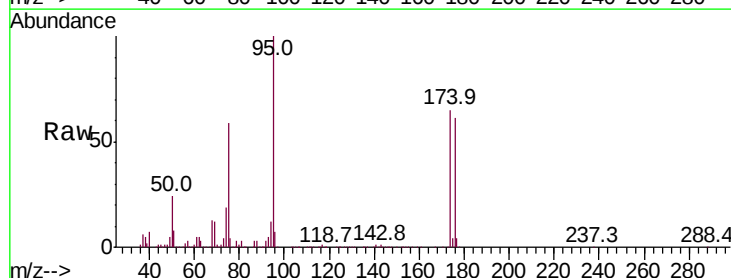
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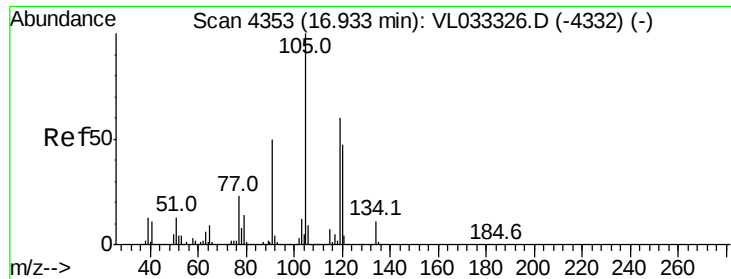
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3/21/2019 12:15:11 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.909 ppbv
RT: 14.58 min Scan# 3620
Delta R.T. -0.01 min
Lab File: VL033371.D
Acq: 18 Mar 2019 23:21

Tgt Ion: 95 Resp: 1158714
Ion Ratio Lower Upper
95 100
174 64.5 51.5 77.3
175 4.7 3.8 5.6





#74
 1,2,4-Trimethylbenzene
 Concen: 0.159 ppbv m
 RT: 16.92 min Scan# 4349
 Delta R.T. -0.01 min
 Lab File: VL033371.D
 Acq: 18 Mar 2019 23:21

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-IA1DUP

Tot Ion:	105	Resp:	31764
Ion Ratio	Lower	Upper	
105	100		
120	55.3	37.4	56.2
91	14.2	41.0	61.4#
77	19.3	18.5	27.7

Manual Integrations
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MMDadoda
 3/21/2019 12:15:11 PM

