

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031519\
 Data File : VL033341.D
 Acq On : 15 Mar 2019 21:42
 Operator : SY/AP
 Sample : K1827-01DUP
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1DUP

Manual Integrations
 APPROVED

MMDadoda
 3/19/2019 9:59:43 AM

Quant Time: Mar 16 05:56:12 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 16 05:56:12 2019
 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	660055	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.30	114	1509303	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1684880	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.58	95	1279550	10.25	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	102.50%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	31785	0.274	ppbv	98
3) Chlorodifluoromethane	3.01	51	97102m	1.282	ppbv	
4) Chloromethane	3.17	50	26964	0.657	ppbv	89
9) Propene	3.05	41	70863m	2.095	ppbv	
10) Heptane	8.25	43	203004	2.420	ppbv	100
11) Trichlorofluoromethane	4.01	101	32801	0.284	ppbv #	82
13) Ethanol	3.66	45	2150953	133.414	ppbv	98
15) Acetone	3.90	43	1121145	10.927	ppbv	98
19) Isopropyl Alcohol	4.04	45	747933	15.324	ppbv	100
20) Methylene Chloride	4.41	84	74772	2.234	ppbv	97
25) Ethyl Acetate	5.77	43	325344	2.181	ppbv	98
26) Hexane	5.78	57	162337	2.435	ppbv	90
34) 2-Butanone	5.34	43	88362	0.891	ppbv	99
35) Carbon Tetrachloride	7.14	117	8733m	0.082	ppbv	
36) Benzene	7.00	78	37964	0.281	ppbv	99
50) 4-Methyl-2-Pentanone	8.88	43	107973	0.771	ppbv	98
52) Tetrachloroethene	11.39	164	6562m	0.117	ppbv	
53) Toluene	9.95	91	3224155	21.007	ppbv	100
58) Ethyl Benzene	12.87	91	82940m	0.348	ppbv	
59) m/p-Xylene	13.12	91	85687m	0.418	ppbv	
60) o-Xylene	13.85	91	27563m	0.138	ppbv	
74) 1,2,4-Trimethylbenzene	16.93	105	60530m	0.259	ppbv	

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

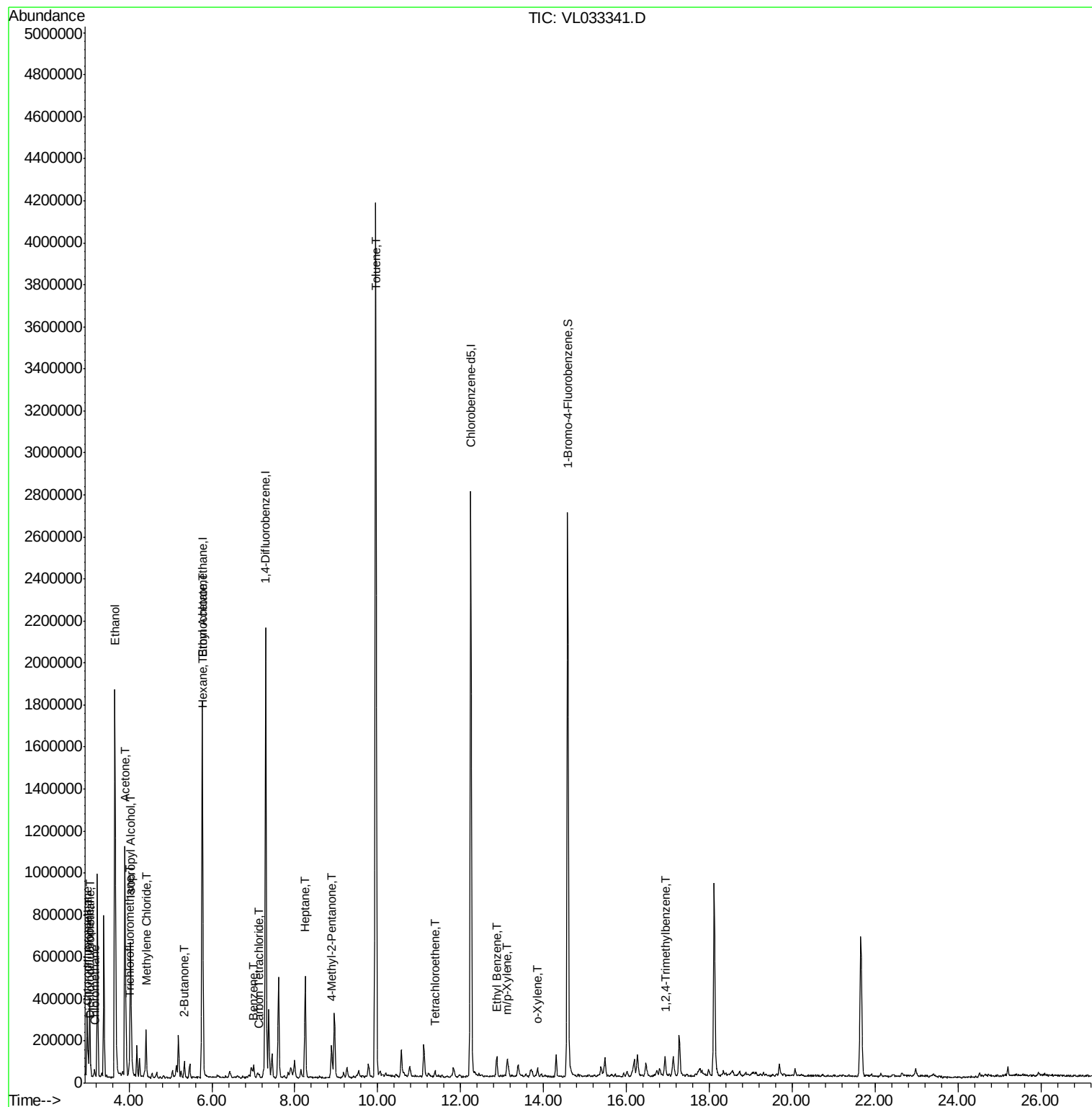
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031519\
Data File : VL033341.D
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Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

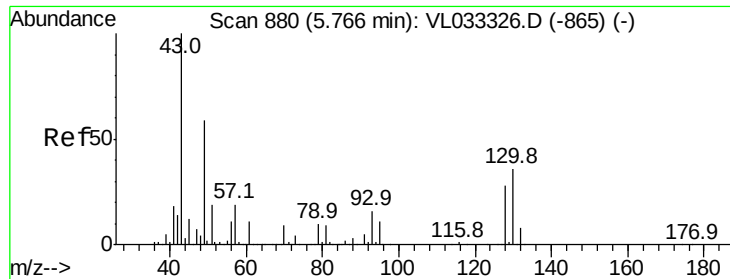
Instrument :
MSVOA_L
ClientSampleId :
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Quant Time: Mar 16 05:56:12 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar
QLast Update : Fri Mar 15 14:52:14 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 879

Delta R.T. -0.00 min

Lab File: VL033341.D

Acq: 15 Mar 2019 21:42

Instrument :

MSVOA_L

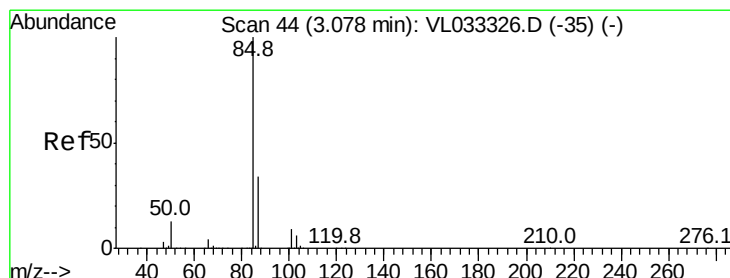
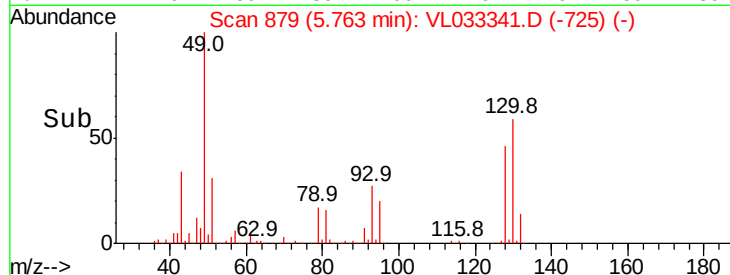
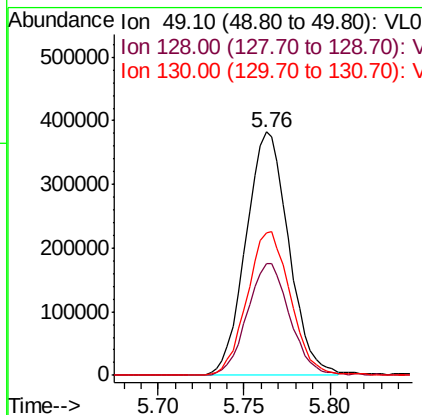
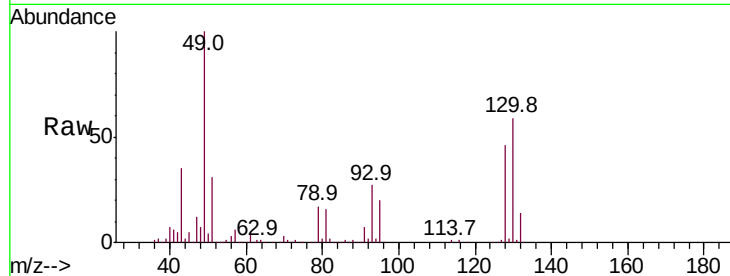
ClientSampleId :

A-1DUP

Tot Ion	Ratio	Lower	Upper
49	100		
128	45.8	23.5	70.6
130	60.1	30.1	90.3

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#2

Dichlorodifluoromethane

Concen: 0.274 ppbv

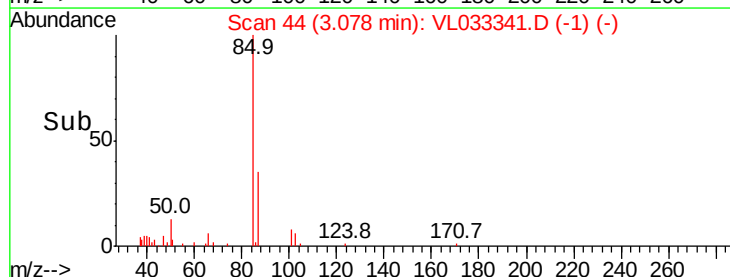
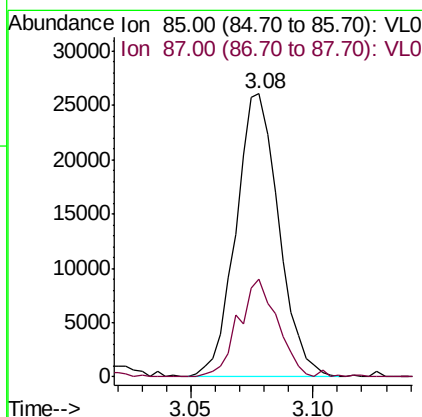
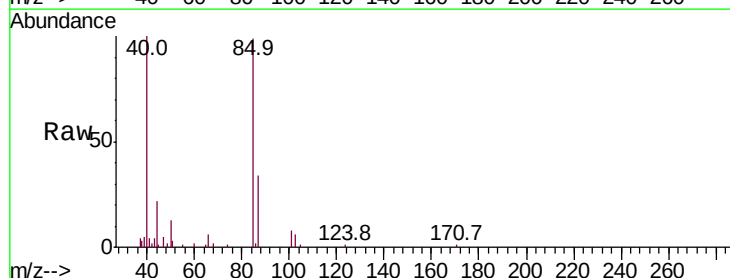
RT: 3.08 min Scan# 44

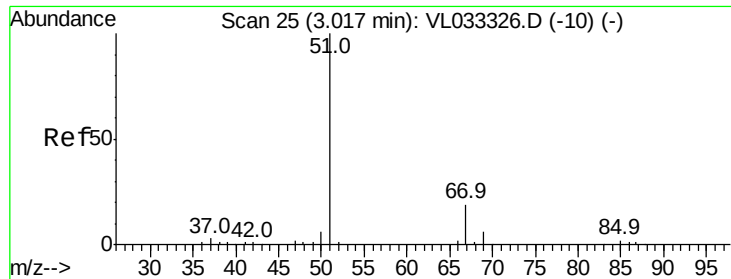
Delta R.T. -0.00 min

Lab File: VL033341.D

Acq: 15 Mar 2019 21:42

Tgt Ion	Ratio	Lower	Upper
85	100		
87	34.7	26.9	40.3





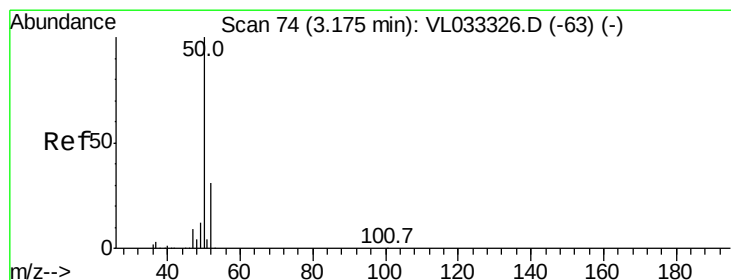
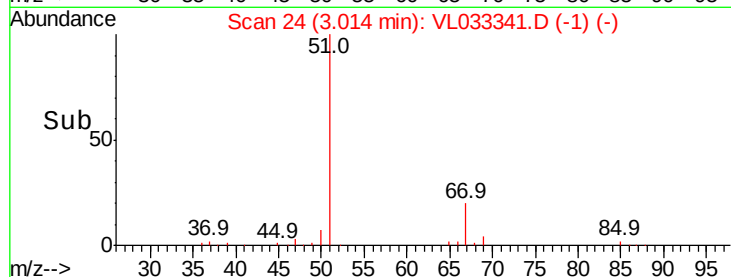
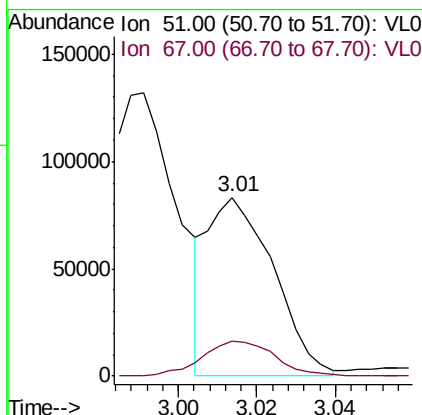
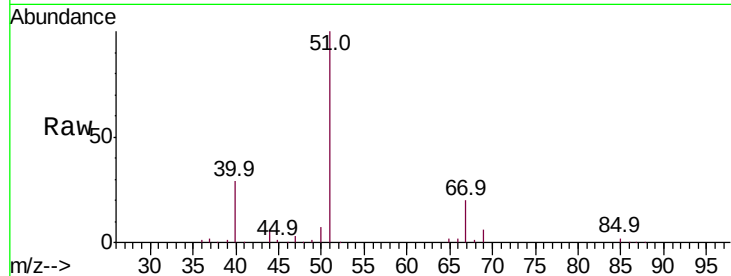
#3
Chlorodifluoromethane
Concen: 1.282 ppbv
RT: 3.01 min Scan# 24
Delta R.T. -0.00 min
Lab File: VL033341.D
Acq: 15 Mar 2019 21:42

Instrument :
MSVOA_L
ClientSampled :
A-1DUP

Tot Ion	51	67	Resp	Lower	Upper
51	100				
67	21.9		14.9	22.3	

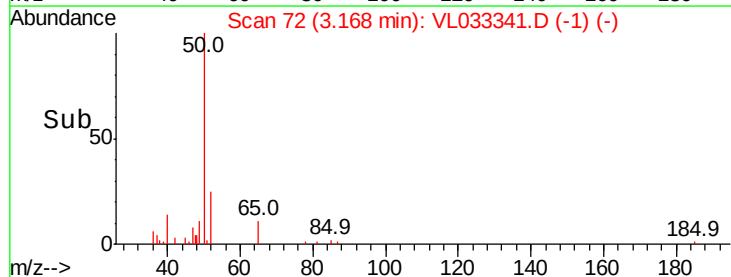
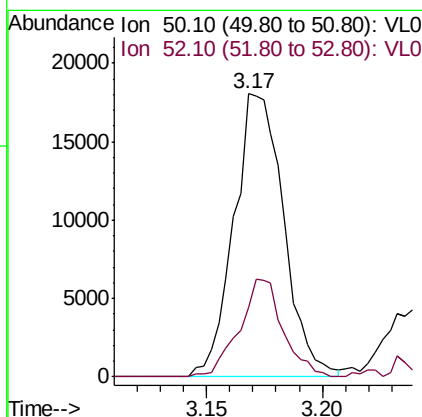
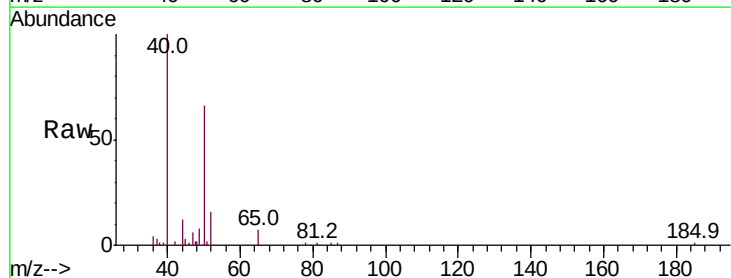
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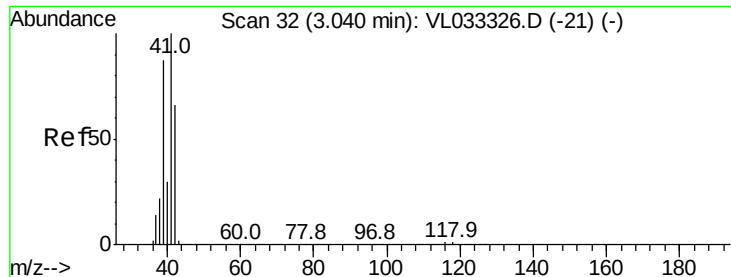
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#4
Chloromethane
Concen: 0.657 ppbv
RT: 3.17 min Scan# 72
Delta R.T. -0.01 min
Lab File: VL033341.D
Acq: 15 Mar 2019 21:42

Tgt Ion	50	52	Resp	Lower	Upper
50	100				
52	25.2		25.0	37.6	





#9

Propene

Concen: 2.095 ppbv m

RT: 3.05 min Scan# 35

Delta R.T. 0.01 min

Lab File: VL033341.D

Acq: 15 Mar 2019 21:42

Instrument :

MSVOA_L

ClientSampleId :

A-1DUP

Tot Ion: 41 Resp: 70863

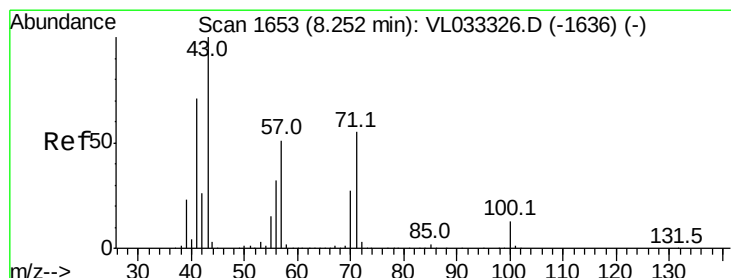
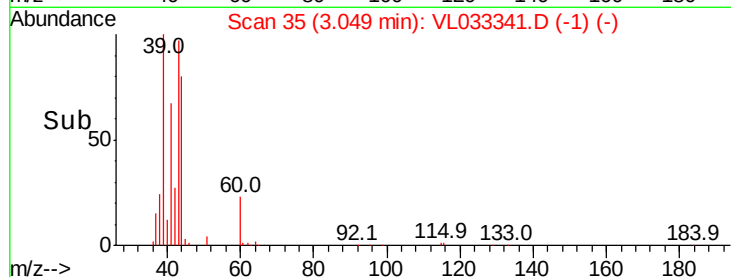
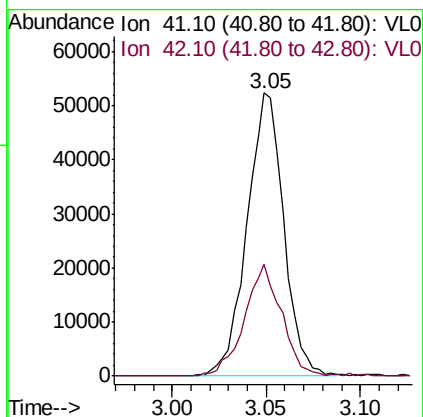
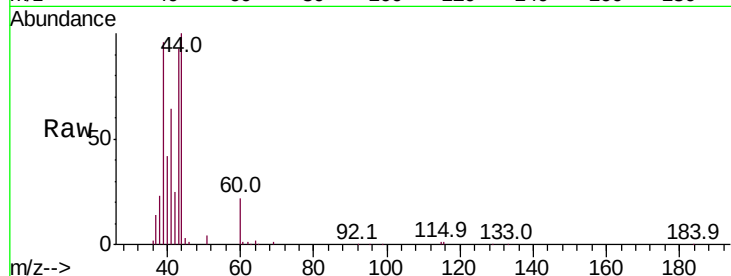
Ion Ratio Lower Upper

41 100

42 234.2 55.2 82.8#

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#10

Heptane

Concen: 2.420 ppbv

RT: 8.25 min Scan# 1653

Delta R.T. -0.00 min

Lab File: VL033341.D

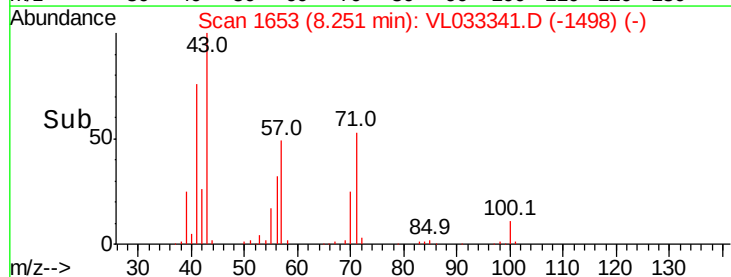
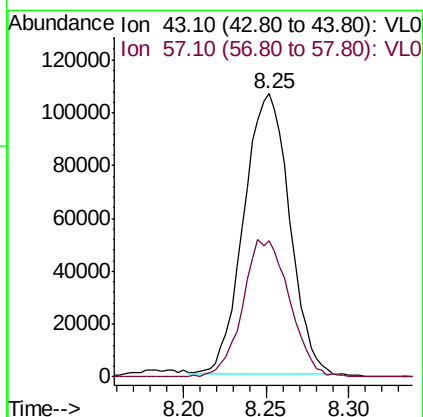
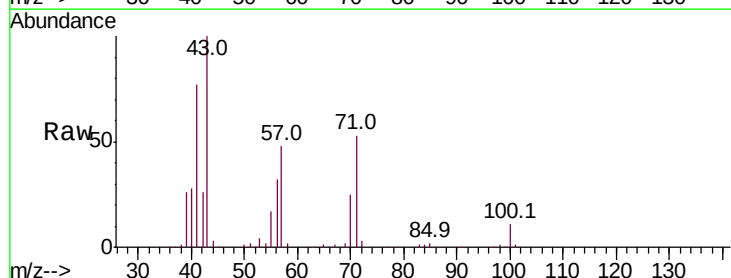
Acq: 15 Mar 2019 21:42

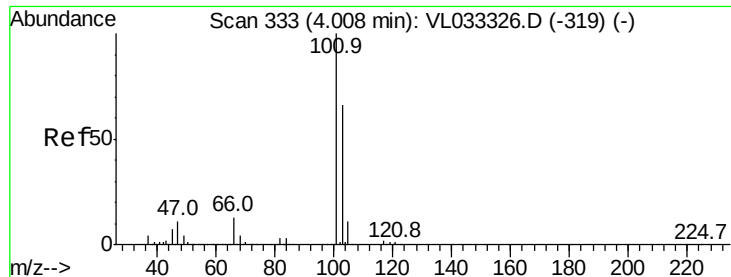
Tgt Ion: 43 Resp: 203004

Ion Ratio Lower Upper

43 100

57 50.3 40.4 60.6





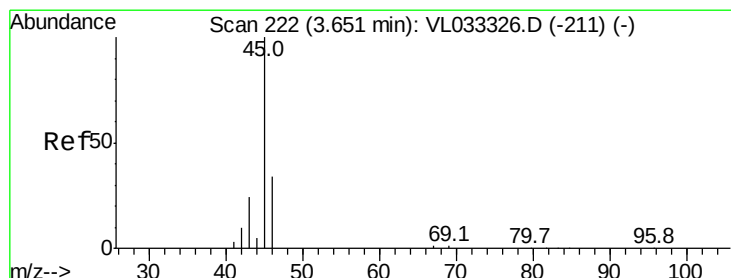
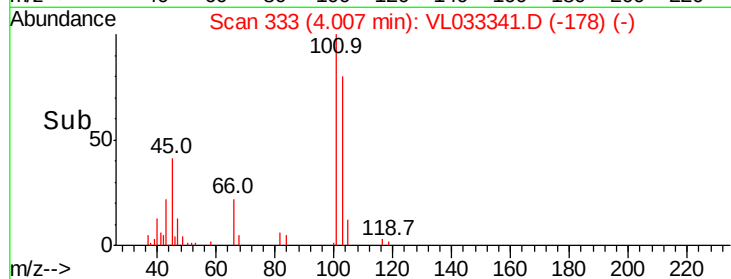
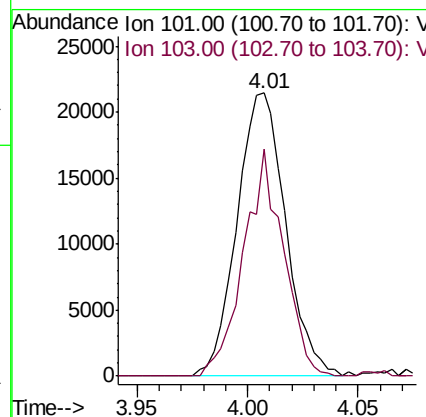
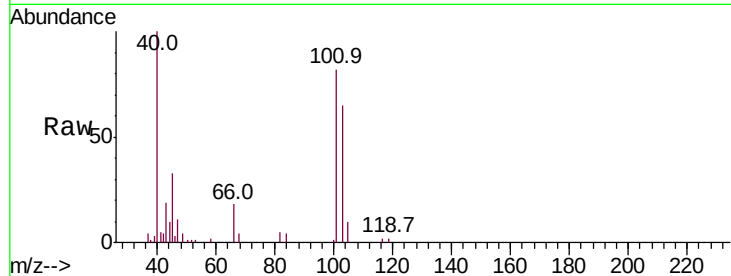
#11
 Trichlorofluoromethane
 Concen: 0.284 ppbv
 RT: 4.01 min Scan# 333
 Delta R.T. -0.00 min
 Lab File: VL033341.D
 Acq: 15 Mar 2019 21:42

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1DUP

Tot Ion:101 Resp: 32801
 Ion Ratio Lower Upper
 101 100
 103 80.1 52.9 79.3#

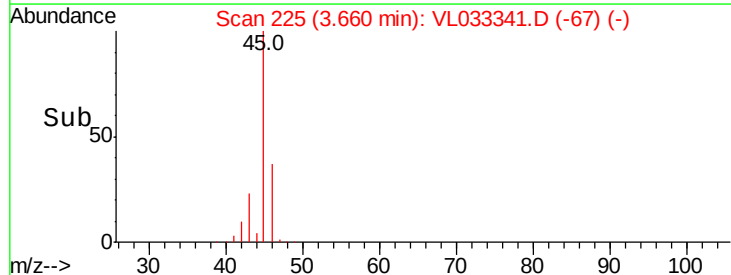
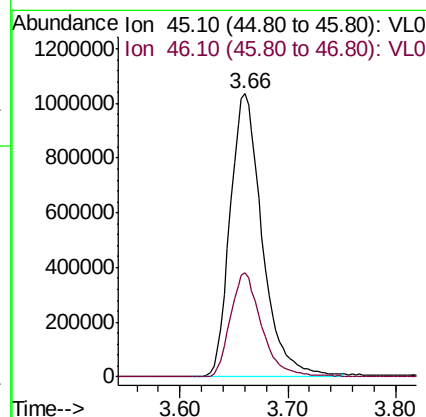
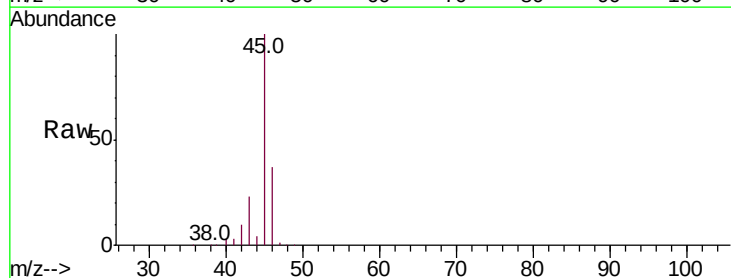
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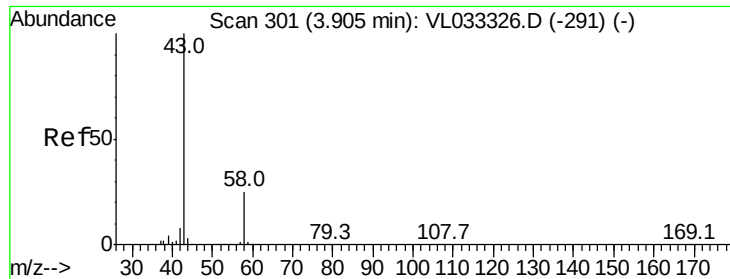
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#13
 Ethanol
 Concen: 133.414 ppbv
 RT: 3.66 min Scan# 225
 Delta R.T. 0.01 min
 Lab File: VL033341.D
 Acq: 15 Mar 2019 21:42

Tgt Ion: 45 Resp: 2150953
 Ion Ratio Lower Upper
 45 100
 46 36.2 14.9 59.7





#15

Acetone

Concen: 10.927 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.01 min

Lab File: VL033341.D

Acq: 15 Mar 2019 21:42

Tot Ion: 43 Resp: 1121145

Ion Ratio Lower Upper

43 100

58 24.4 20.4 30.6

Instrument :

MSVOA_L

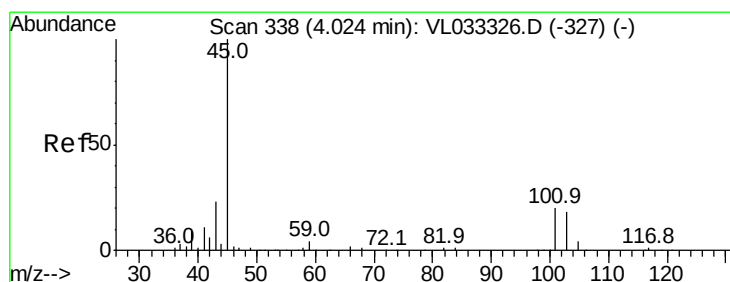
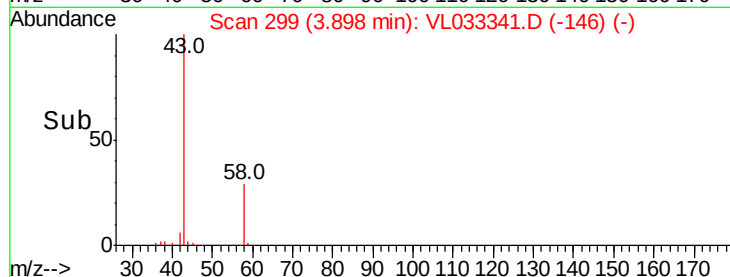
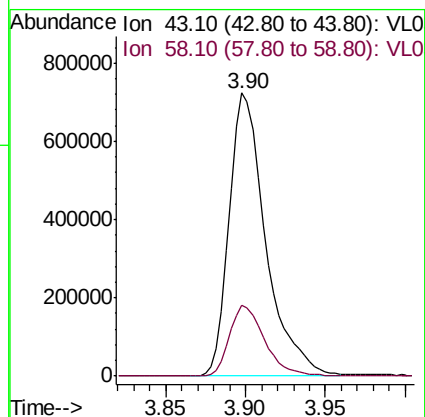
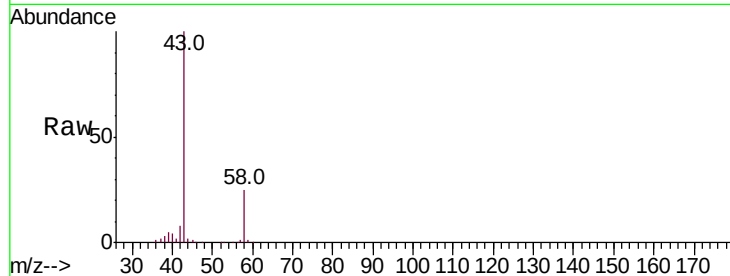
ClientSampleId :

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#19

Isopropyl Alcohol

Concen: 15.324 ppbv

RT: 4.04 min Scan# 342

Delta R.T. 0.01 min

Lab File: VL033341.D

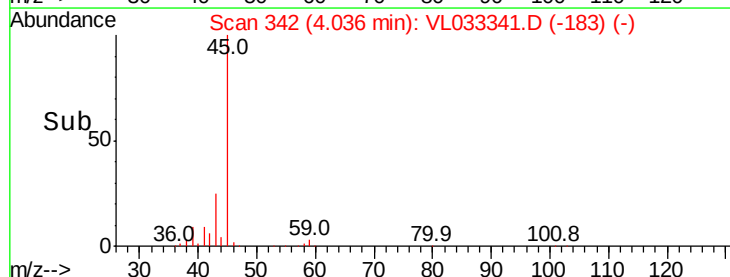
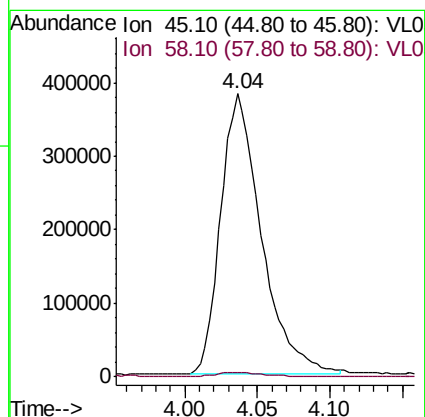
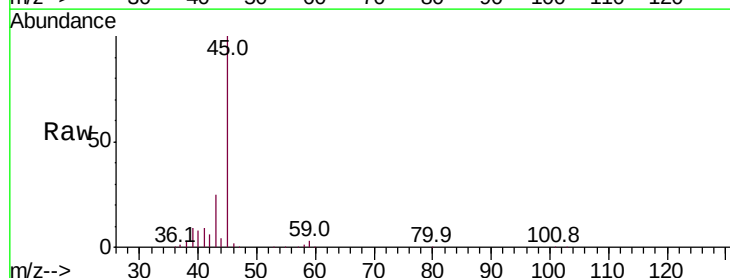
Acq: 15 Mar 2019 21:42

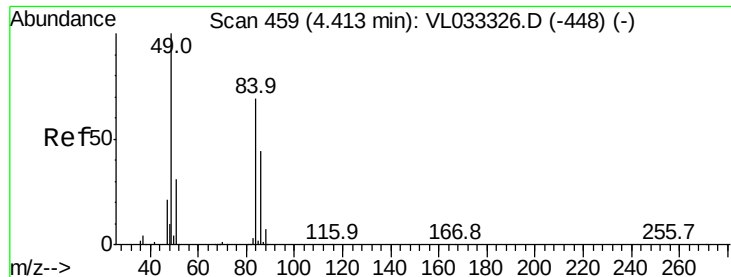
Tgt Ion: 45 Resp: 747933

Ion Ratio Lower Upper

45 100

58 2.0 1.5 2.3





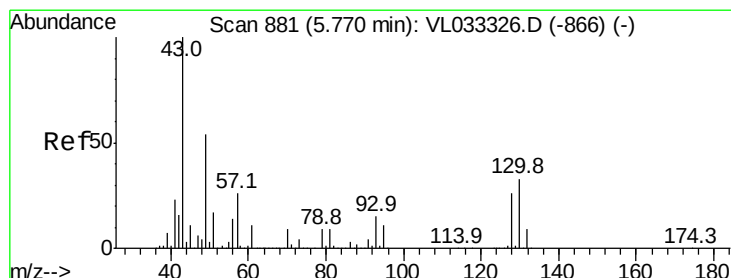
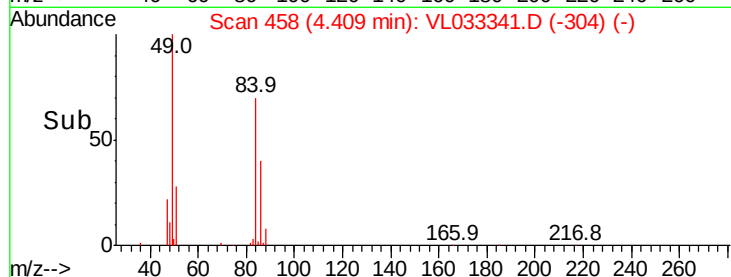
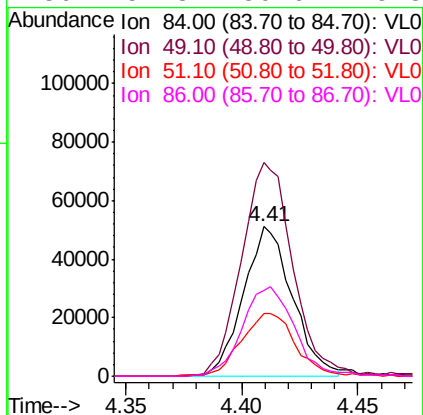
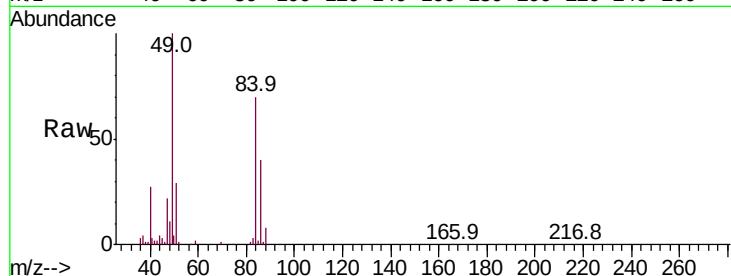
#20
Methvlene Chloride
Concen: 2.234 ppbv
RT: 4.41 min Scan# 458
Delta R.T. -0.00 min
Lab File: VL033341.D
Acq: 15 Mar 2019 21:42

Instrument :
MSVOA_L
ClientSampled :
A-1DUP

Tot Ion	84	Resp	74772
Ion	Ratio	Lower	Upper
84	100		
49	142.4	115.4	173.0
51	41.5	35.8	53.6
86	57.8	50.6	75.8

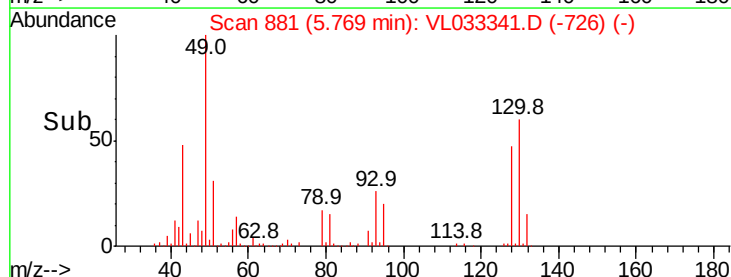
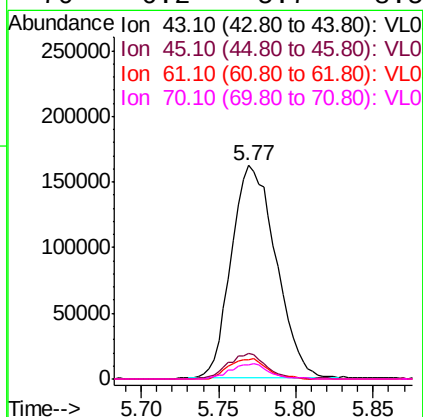
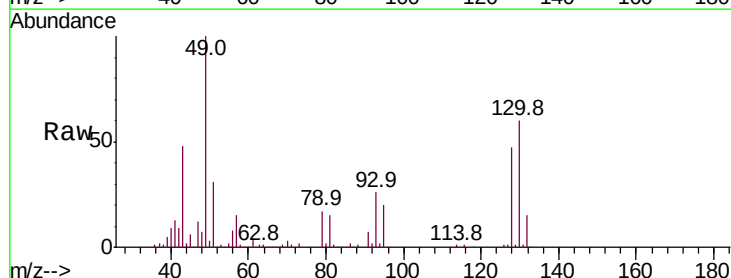
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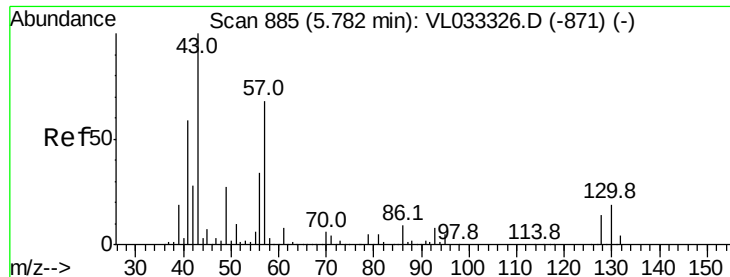
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#25
Ethyl Acetate
Concen: 2.181 ppbv
RT: 5.77 min Scan# 881
Delta R.T. -0.00 min
Lab File: VL033341.D
Acq: 15 Mar 2019 21:42

Tgt Ion	43	Resp	325344
Ion	Ratio	Lower	Upper
43	100		
45	10.5	7.9	11.9
61	8.5	7.4	11.2
70	6.2	5.7	8.5





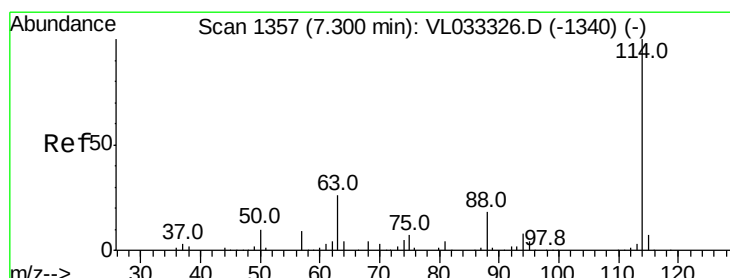
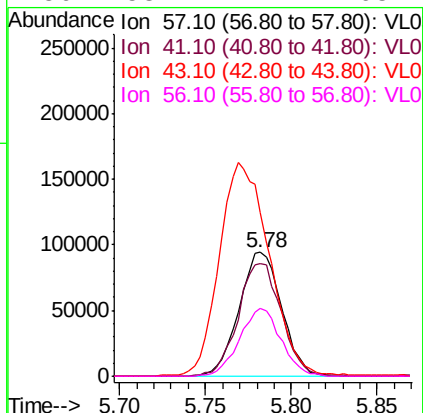
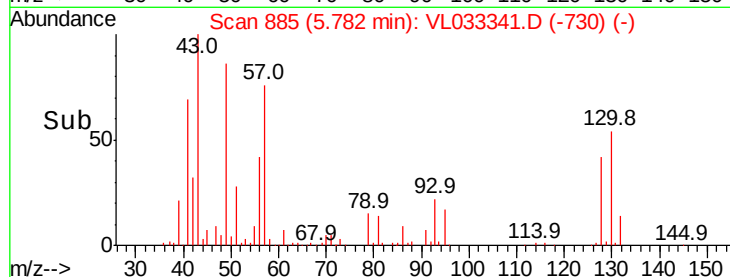
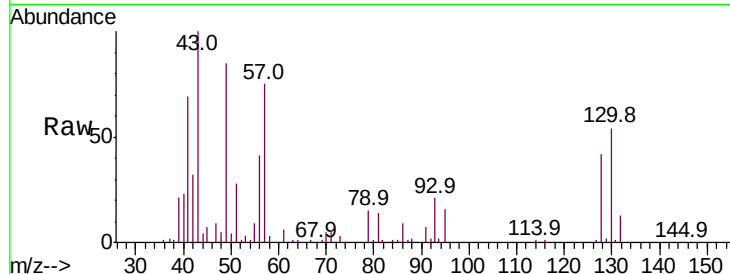
#26
Hexane
Concen: 2.435 ppbv
RT: 5.78 min Scan# 885
Delta R.T. -0.00 min
Lab File: VL033341.D
Acq: 15 Mar 2019 21:42

Instrument :
MSVOA_L
ClientSampleId :
A-1DUP

Tot Ion	Ion	Ratio	Lower	Upper
57	100			
41	92.5	70.5	105.7	
43	204.4	181.8	272.8	
56	53.2	42.2	63.2	

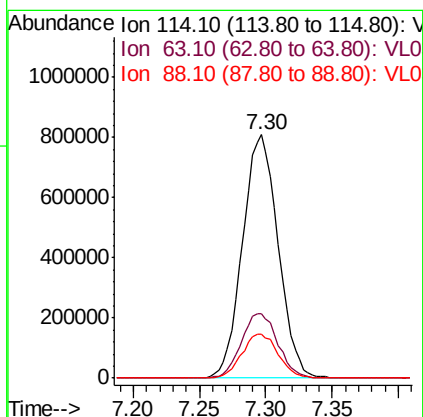
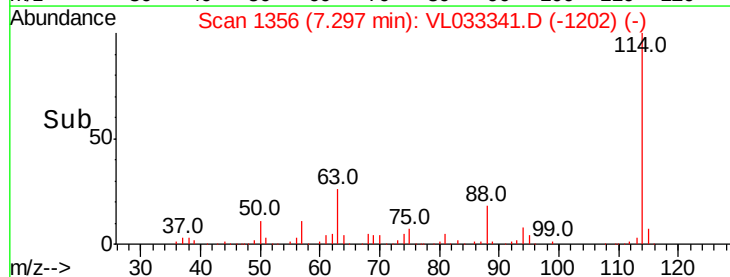
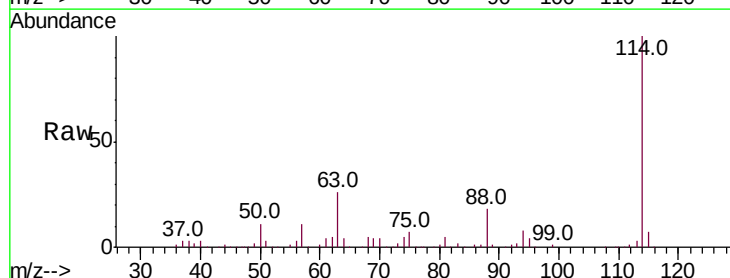
Manual Integrations
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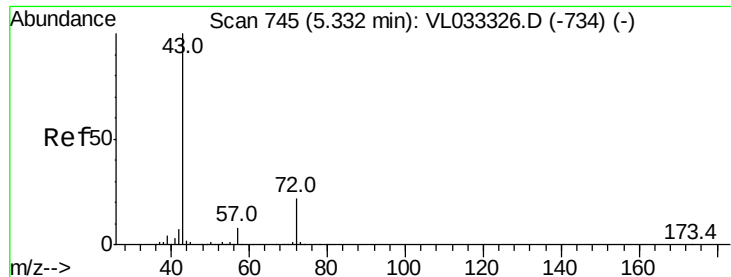
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.30 min Scan# 1356
Delta R.T. -0.00 min
Lab File: VL033341.D
Acq: 15 Mar 2019 21:42

Tgt Ion	Ion	Ratio	Lower	Upper
114	100			
63	27.3	21.4	32.2	
88	18.5	14.5	21.7	





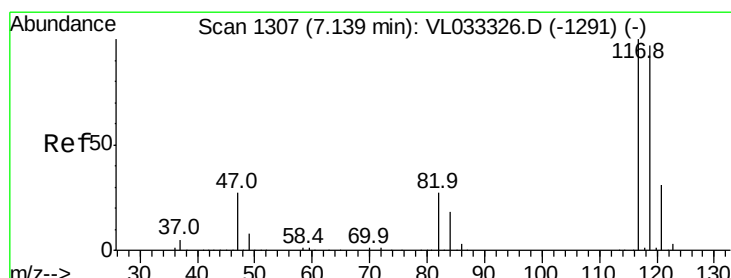
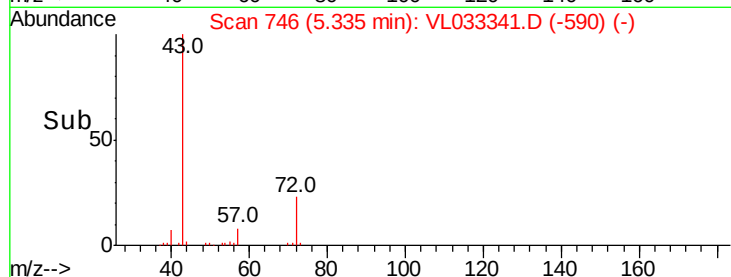
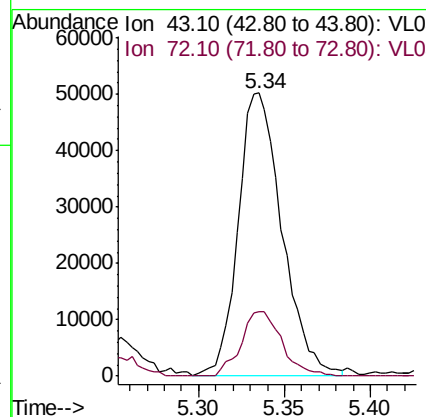
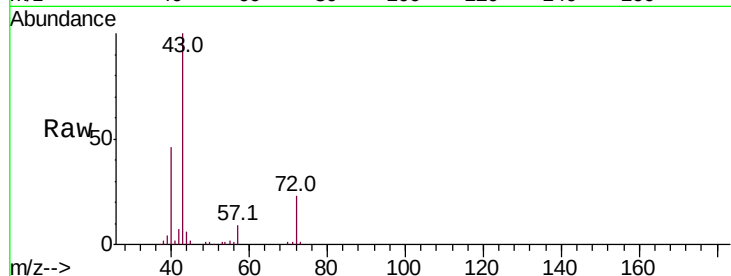
#34
2-Butanone
Concen: 0.891 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.00 min
Lab File: VL033341.D
Acq: 15 Mar 2019 21:42

Instrument :
MSVOA_L
ClientSampled :
A-1DUP

Tot Ion: 43 Resp: 88362
Ion Ratio Lower Upper
43 100
72 21.6 17.7 26.5

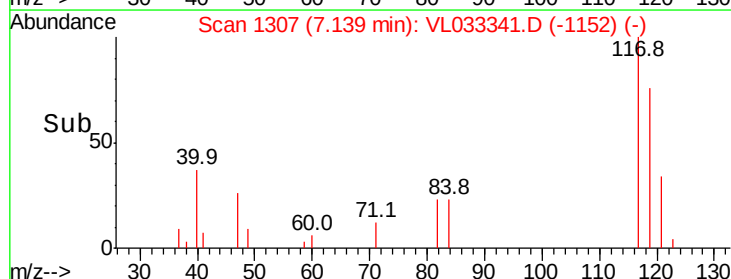
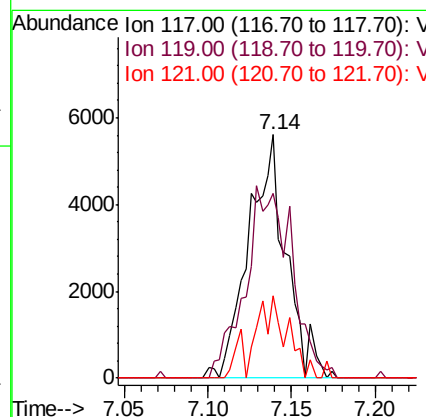
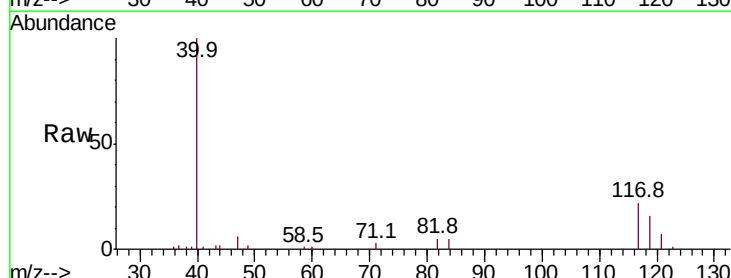
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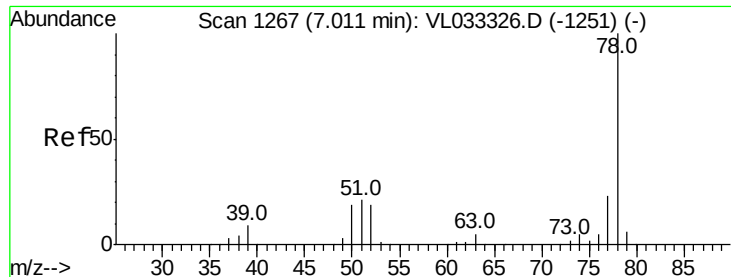
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#35
Carbon Tetrachloride
Concen: 0.082 ppbv m
RT: 7.14 min Scan# 1307
Delta R.T. -0.00 min
Lab File: VL033341.D
Acq: 15 Mar 2019 21:42

Tgt Ion: 117 Resp: 8733
Ion Ratio Lower Upper
117 100
119 76.1 77.4 116.0#
121 34.1 24.9 37.3





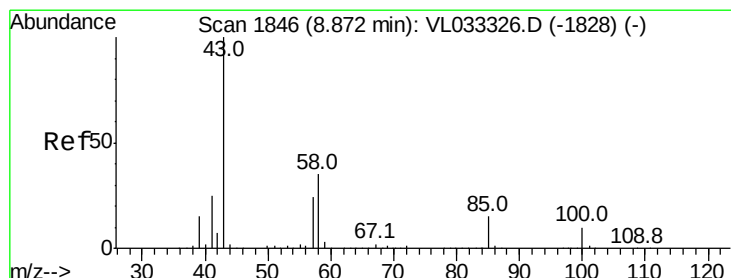
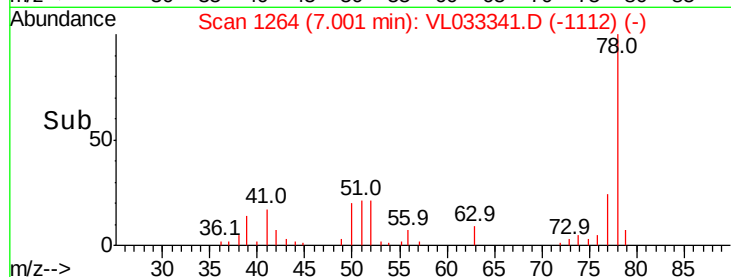
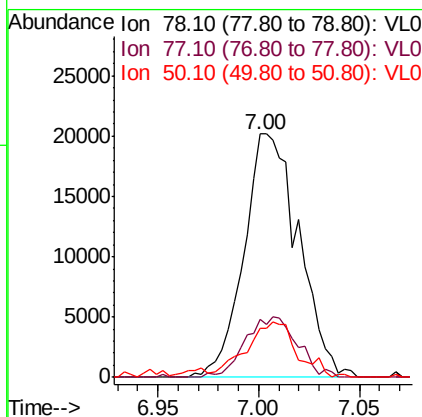
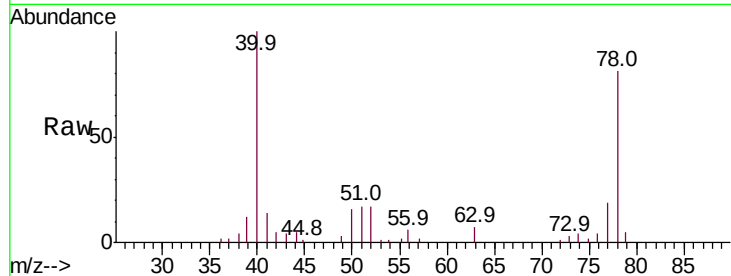
#36
Benzene
Concen: 0.281 ppbv
RT: 7.00 min Scan# 1264
Delta R.T. -0.01 min
Lab File: VL033341.D
Acq: 15 Mar 2019 21:42

Instrument :
MSVOA_L
ClientSampled :
A-1DUP

Tot Ion	Ratio	Lower	Upper
78	100		
77	22.4	18.1	27.1
50	17.8	15.2	22.8

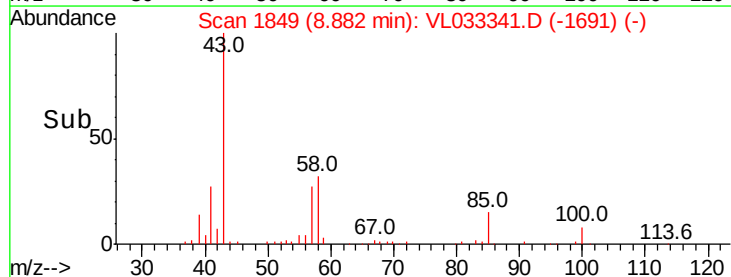
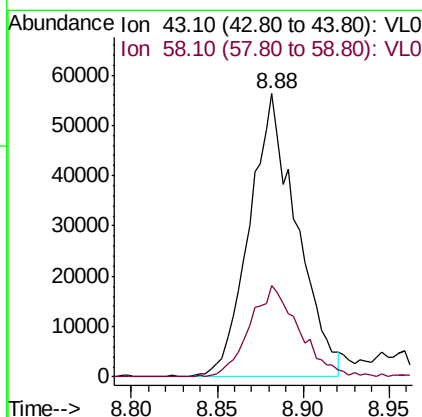
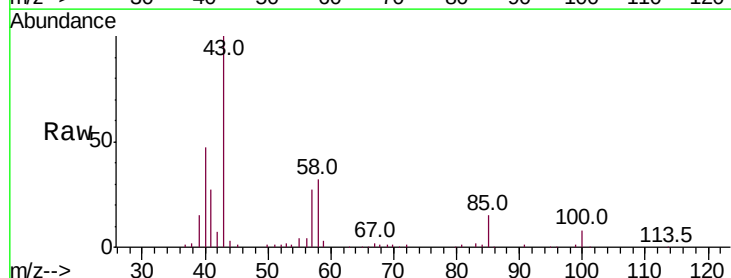
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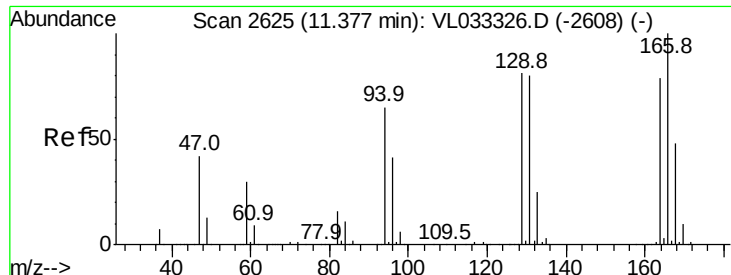
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#50
4-Methyl-2-Pentanone
Concen: 0.771 ppbv
RT: 8.88 min Scan# 1849
Delta R.T. 0.01 min
Lab File: VL033341.D
Acq: 15 Mar 2019 21:42

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.4	28.4	42.6





#52

Tetrachloroethene

Concen: 0.117 ppbv m

RT: 11.39 min Scan# 2628

Delta R.T. 0.01 min

Lab File: VL033341.D

Acq: 15 Mar 2019 21:42

Instrument :

MSVOA_L

ClientSampled :

A-1DUP

Tot Ion:164 Resp: 6562

Ion Ratio Lower Upper

164 100

166 105.1 101.5 152.3

129 109.8 82.2 123.2

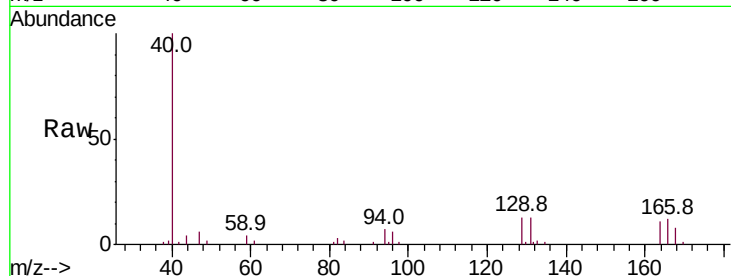
131 111.3 81.1 121.7

Manual Integrations

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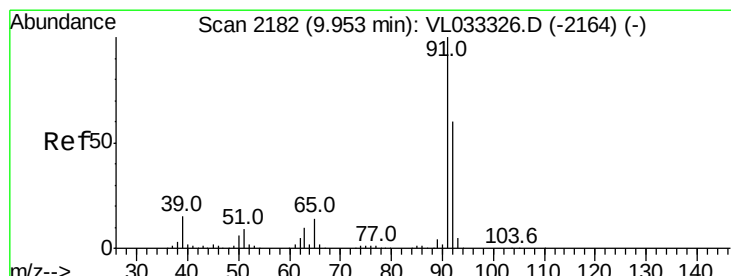
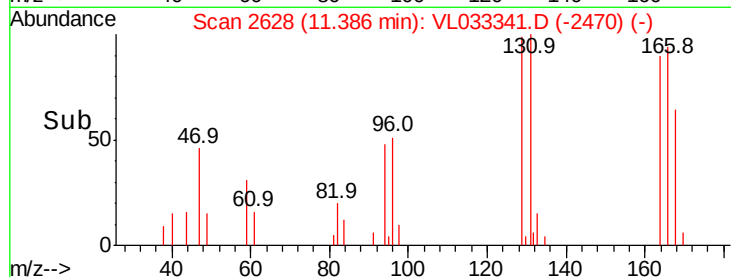
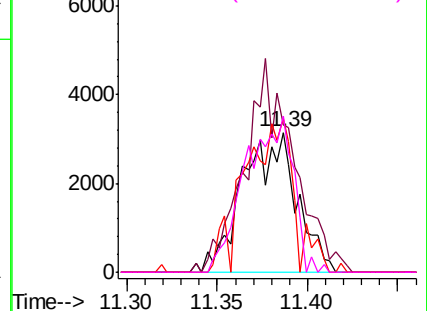


Abundance Ion 163.90 (163.60 to 164.60): V

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: 21.007 ppbv

RT: 9.95 min Scan# 2182

Delta R.T. -0.00 min

Lab File: VL033341.D

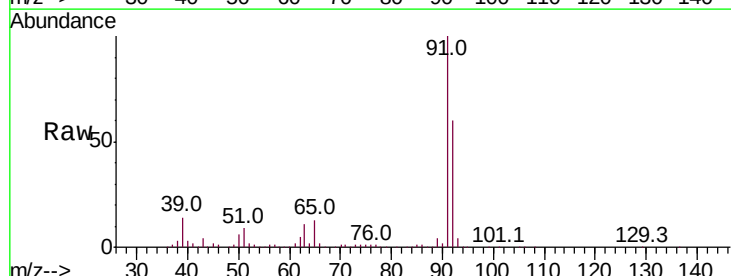
Acq: 15 Mar 2019 21:42

Tgt Ion: 91 Resp: 3224155

Ion Ratio Lower Upper

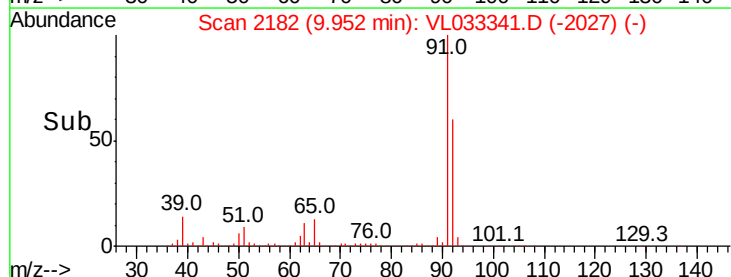
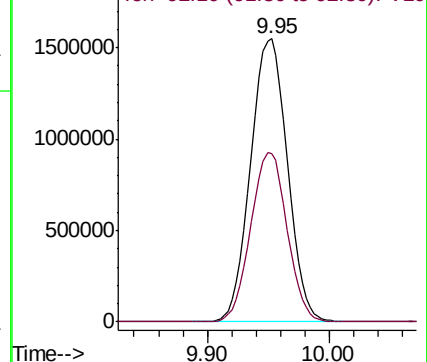
91 100

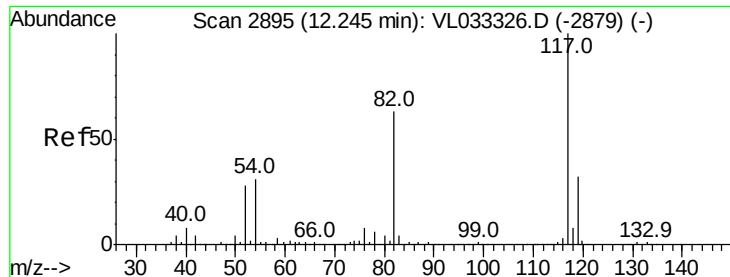
92 59.2 47.4 71.0



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





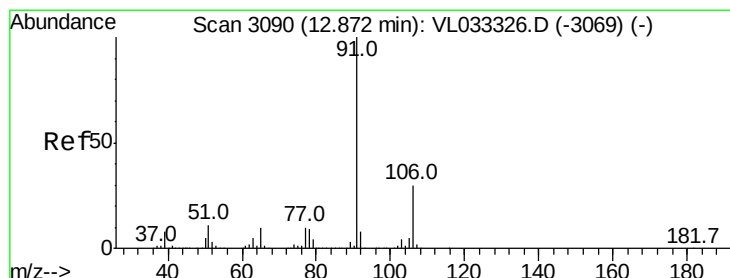
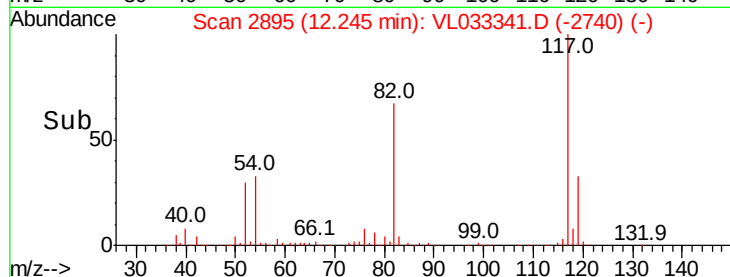
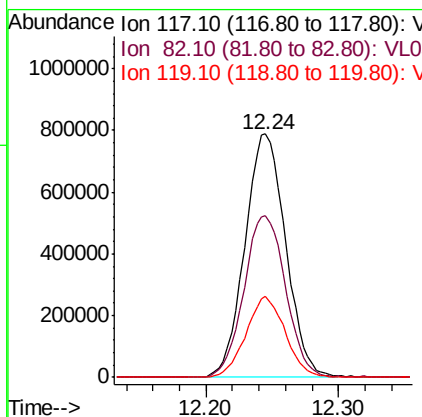
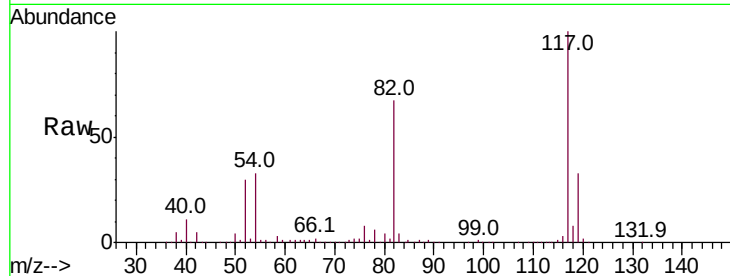
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2895
Delta R.T. -0.00 min
Lab File: VL033341.D
Acq: 15 Mar 2019 21:42

Instrument :
MSVOA_L
ClientSampleId :
A-1DUP

Tot Ion:117 Resp: 1684880
Ion Ratio Lower Upper
117 100
82 68.5 53.4 80.2
119 32.2 27.3 40.9

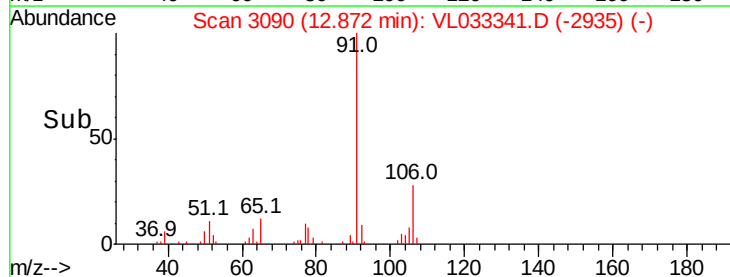
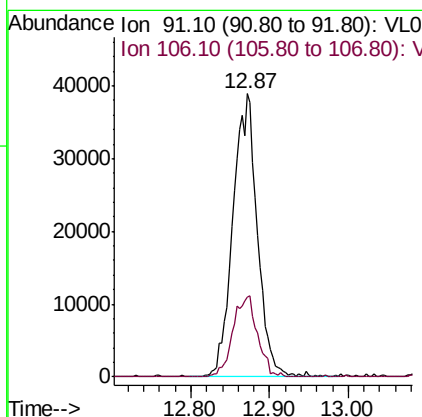
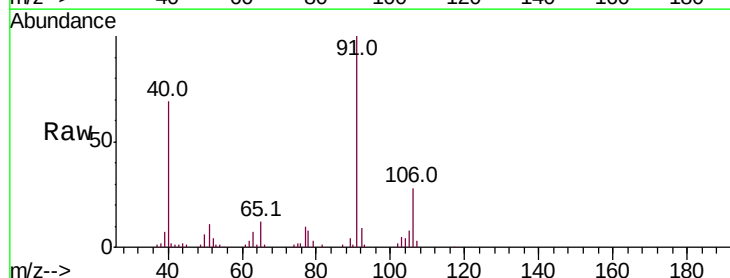
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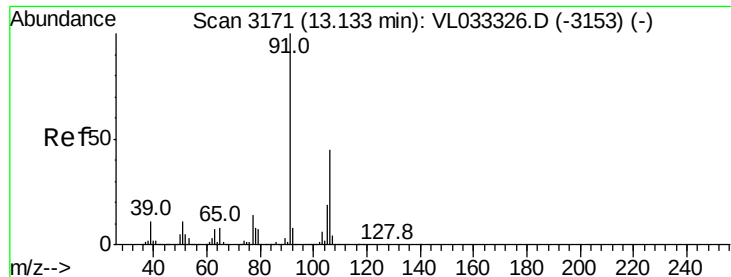
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#58
Ethyl Benzene
Concen: 0.348 ppbv m
RT: 12.87 min Scan# 3090
Delta R.T. -0.00 min
Lab File: VL033341.D
Acq: 15 Mar 2019 21:42

Tgt Ion: 91 Resp: 82940
Ion Ratio Lower Upper
91 100
106 28.1 24.2 36.2





#59

m/p-Xylene

Concen: 0.418 ppbv m

RT: 13.12 min Scan# 3168

Delta R.T. -0.01 min

Lab File: VL033341.D

Acq: 15 Mar 2019 21:42

Instrument :

MSVOA_L

ClientSampleId :

A-1DUP

Tot Ion: 91 Resp: 85687

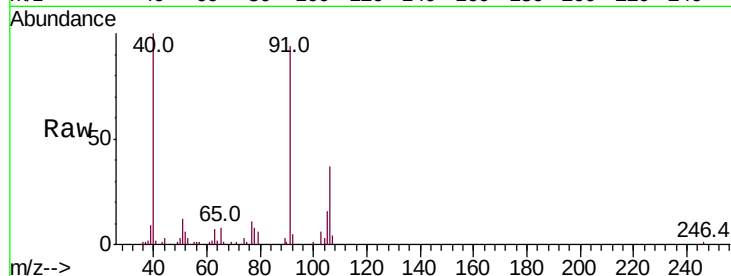
Ion Ratio Lower Upper

91 100

106 0.0 0.0 0.0

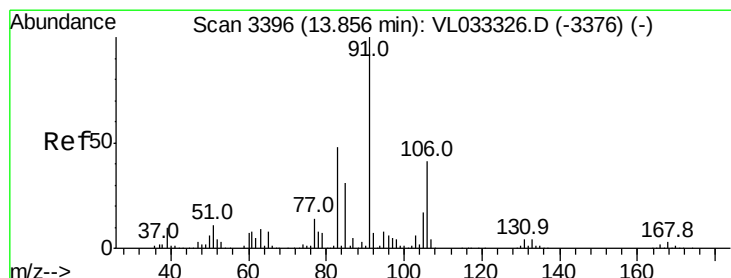
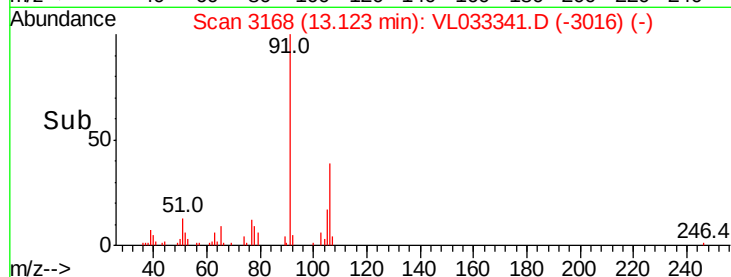
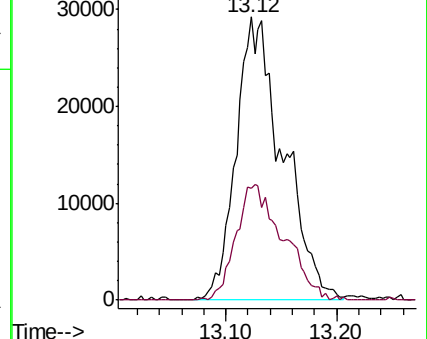
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V



#60

o-Xylene

Concen: 0.138 ppbv m

RT: 13.85 min Scan# 3395

Delta R.T. -0.00 min

Lab File: VL033341.D

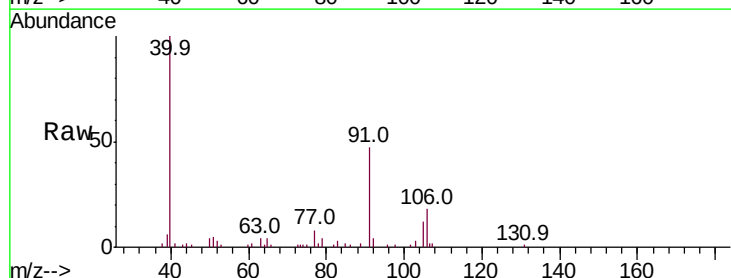
Acq: 15 Mar 2019 21:42

Tgt Ion: 91 Resp: 27563

Ion Ratio Lower Upper

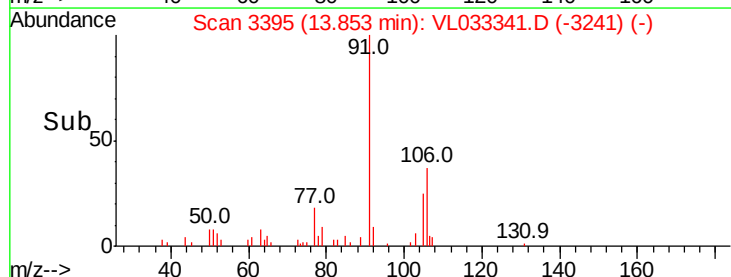
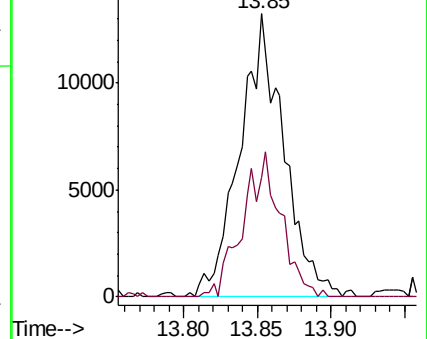
91 100

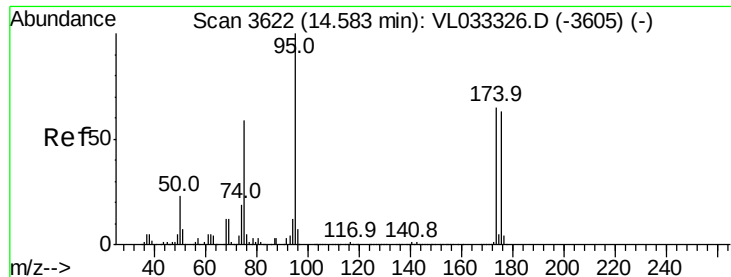
106 44.0 21.3 63.9



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 106.10 (105.80 to 106.80): V





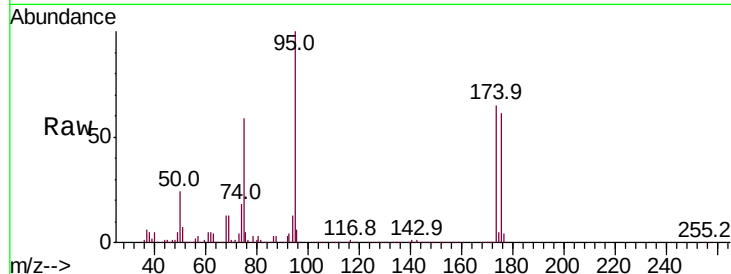
#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.249 ppbv
 RT: 14.58 min Scan# 3622
 Delta R.T. -0.00 min
 Lab File: VL033341.D
 Acq: 15 Mar 2019 21:42

Instrument :
 MSVOA_L
 ClientSampleId :
 A-1DUP

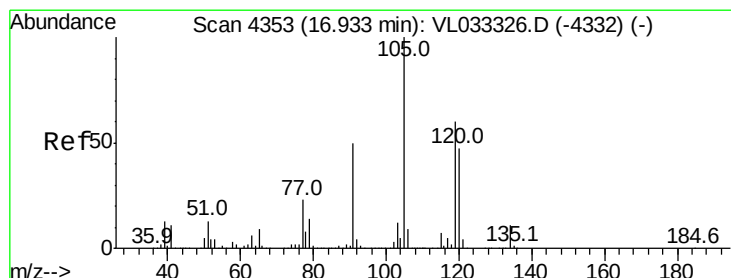
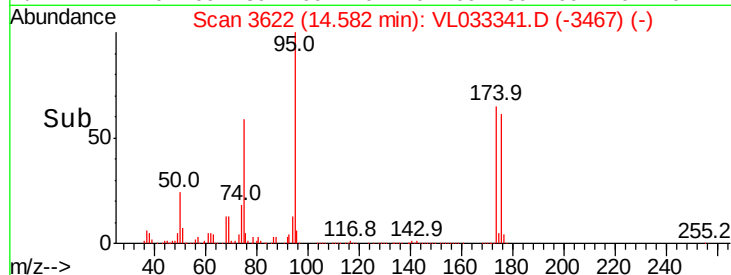
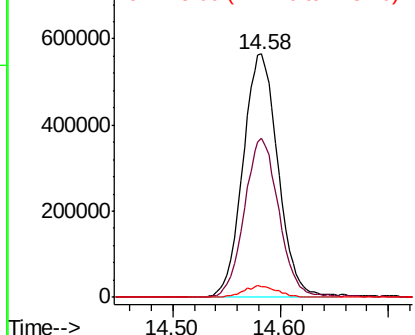
Tot Ion: 95 Resp: 1279550
 Ion Ratio Lower Upper
 95 100
 174 64.6 51.5 77.3
 175 4.6 3.8 5.6

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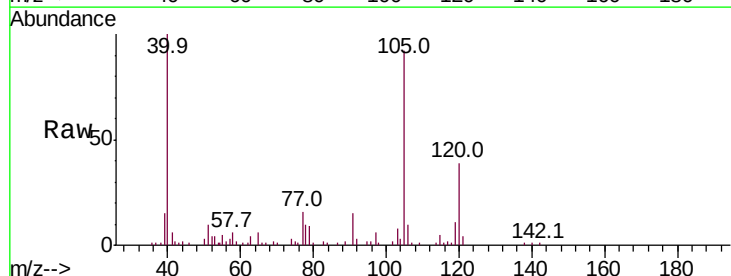


Abundance Ion 95.10 (94.80 to 95.80): VL0
 Ion 174.00 (173.70 to 174.70): V
 Ion 175.00 (174.70 to 175.70): V



#74
 1,2,4-Trimethylbenzene
 Concen: 0.259 ppbv m
 RT: 16.93 min Scan# 4353
 Delta R.T. -0.00 min
 Lab File: VL033341.D
 Acq: 15 Mar 2019 21:42

Tgt Ion: 105 Resp: 60530
 Ion Ratio Lower Upper
 105 100
 120 41.8 37.4 56.2
 91 16.4 41.0 61.4#
 77 17.3 18.5 27.7#



Abundance Ion 105.10 (104.80 to 105.80): V
 Ion 120.20 (119.90 to 120.90): V
 Ion 91.10 (90.80 to 91.80): VL0
 Ion 77.10 (76.80 to 77.80): VL0

