

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL040419\
 Data File : VL033545.D
 Acq On : 4 Apr 2019 22:55
 Operator : SY/AP
 Sample : K2096-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-5DL

Manual Integrations
 APPROVED

MMDadoda
 4/8/2019 3:22:24 AM

Quant Time: Apr 05 03:24:34 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 26 2019
 QLast Update : Tue Mar 26 16:00:50 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	1149834	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2774993	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2730700	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	2175837	10.16	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	17080	0.102	ppbv #	86
9) Propene	3.05	41	52708	0.948	ppbv #	64
10) Heptane	8.24	43	37188m	0.250	ppbv	
13) Ethanol	3.65	45	151441	10.527	ppbv	67
15) Acetone	3.90	43	426003	3.081	ppbv	98
19) Isopropyl Alcohol	4.04	45	47697	0.545	ppbv #	1
20) Methylene Chloride	4.41	84	43468	0.741	ppbv	93
26) Hexane	5.78	57	36598	0.321	ppbv #	48
53) Toluene	9.94	91	97581m	0.361	ppbv	

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

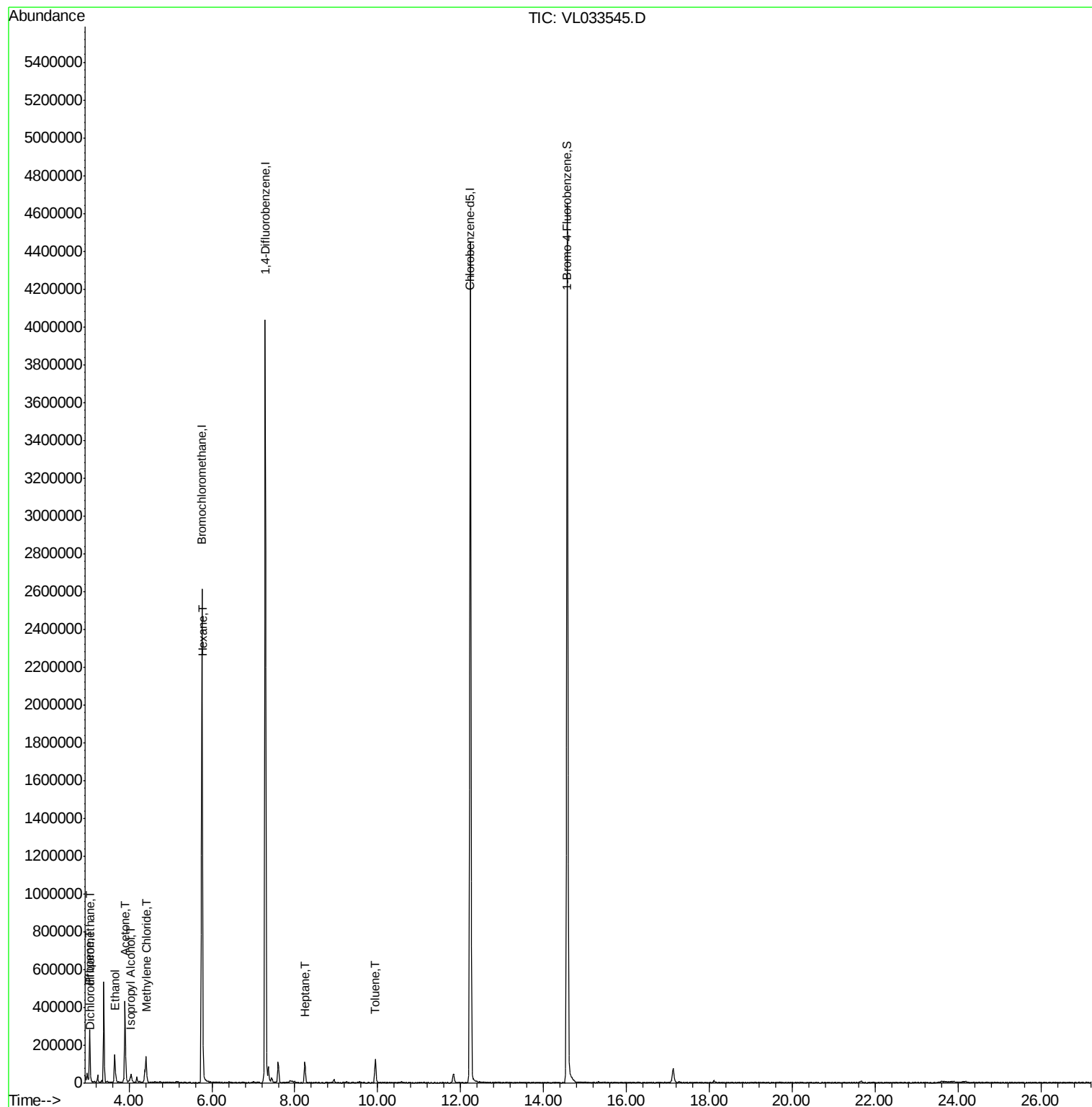
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL040419\
Data File : VL033545.D
Acq On : 4 Apr 2019 22:55
Operator : SY/AP
Sample : K2096-05DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

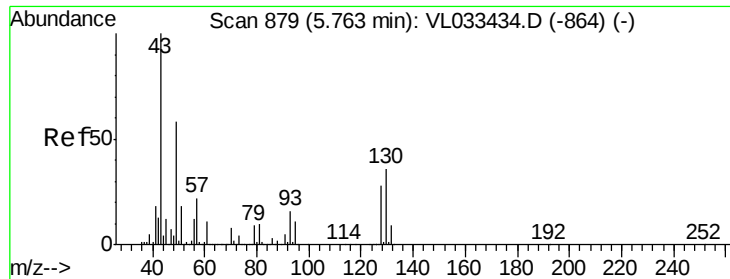
Instrument :
MSVOA_L
ClientSampleId :
A-5DL

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Quant Time: Apr 05 03:24:34 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 26 16:00:50 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: VL033545.D

Acq: 4 Apr 2019 22:55

Instrument :

MSVOA_L

ClientSampleId :

A-5DL

Tot Ion: 49 Resp: 1149834

Ion Ratio Lower Upper

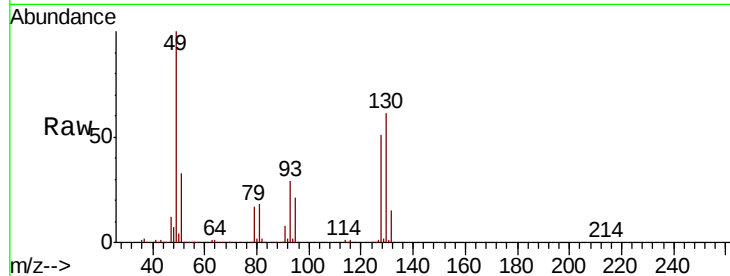
49 100

128 49.6 24.0 72.0

130 62.9 31.2 93.6

Manual Integrations
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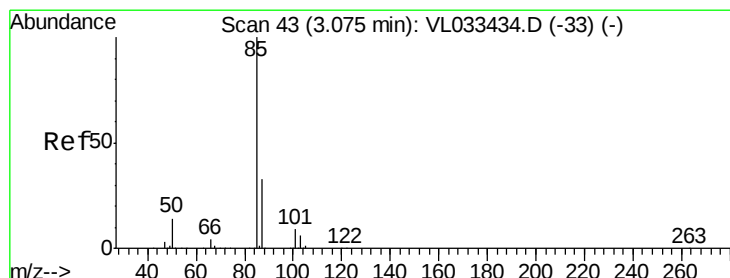
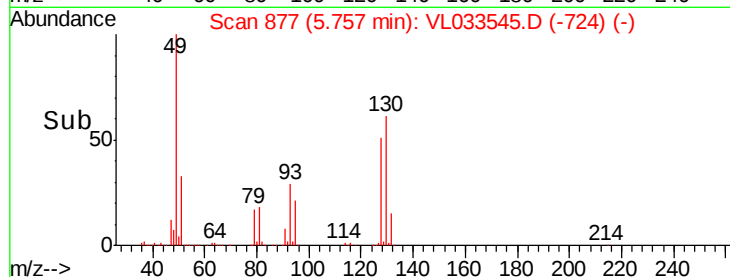
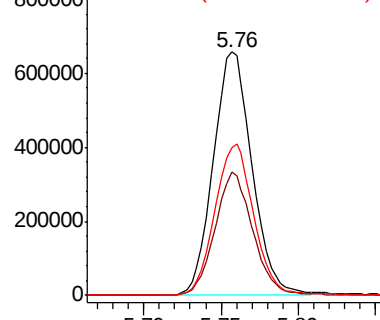
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Abundance Ion 49.10 (48.80 to 49.80): VL0

Ion 128.00 (127.70 to 128.70): V

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 0.102 ppbv

RT: 3.08 min Scan# 44

Delta R.T. 0.00 min

Lab File: VL033545.D

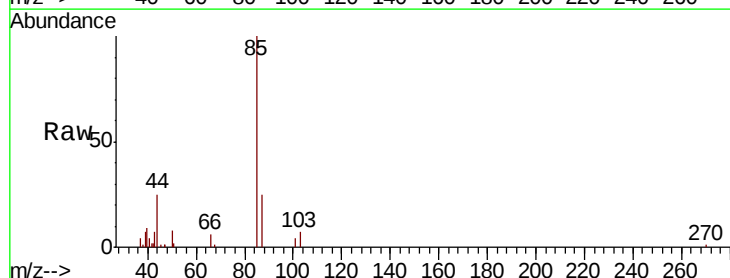
Acq: 4 Apr 2019 22:55

Tgt Ion: 85 Resp: 17080

Ion Ratio Lower Upper

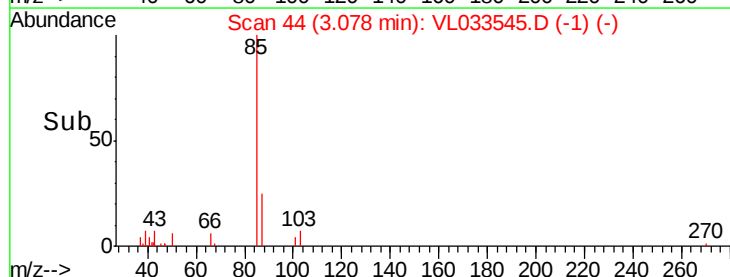
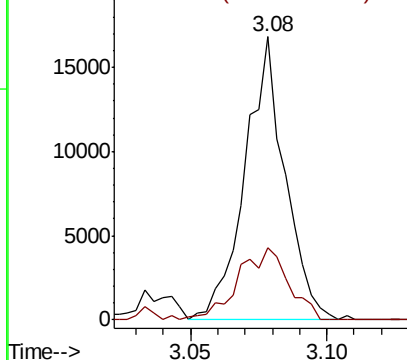
85 100

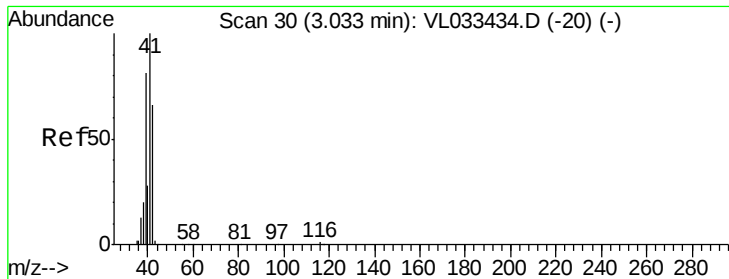
87 25.4 26.7 40.1#



Abundance Ion 85.00 (84.70 to 85.70): VL0

Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.948 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033545.D

Acq: 4 Apr 2019 22:55

Instrument :

MSVOA_L

ClientSampled :

A-5DL

Tot Ion: 41 Resp: 52708

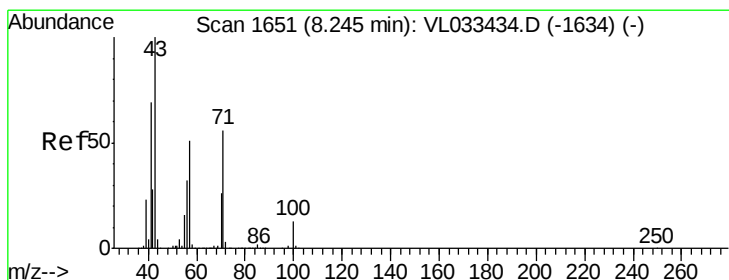
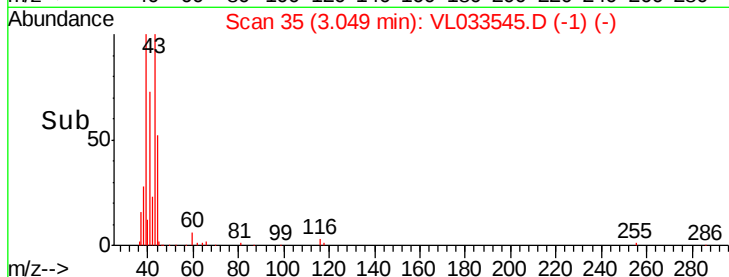
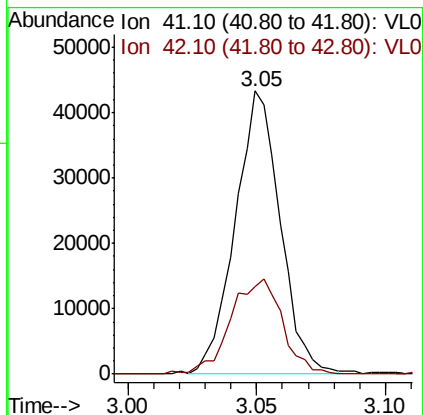
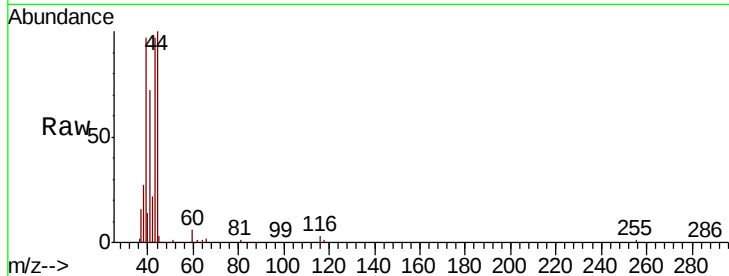
Ion Ratio Lower Upper

41 100

42 38.5 53.9 80.9#

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#10

Heptane

Concen: 0.250 ppbv m

RT: 8.24 min Scan# 1650

Delta R.T. -0.00 min

Lab File: VL033545.D

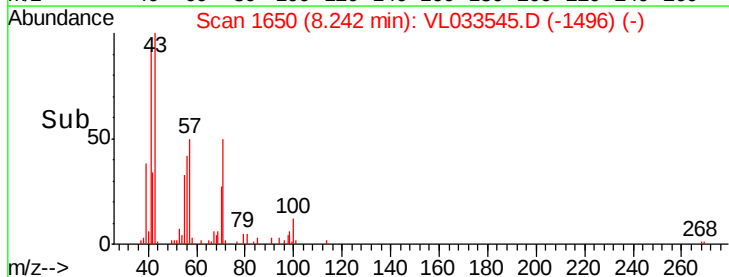
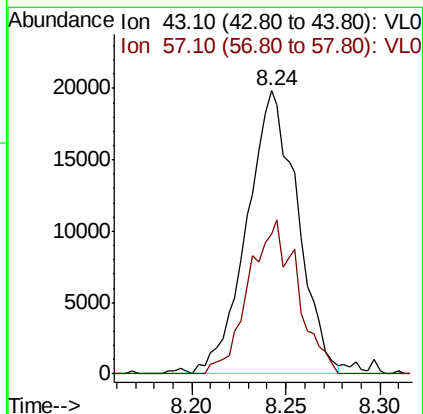
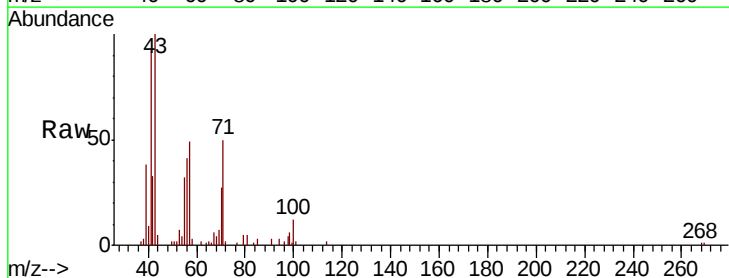
Acq: 4 Apr 2019 22:55

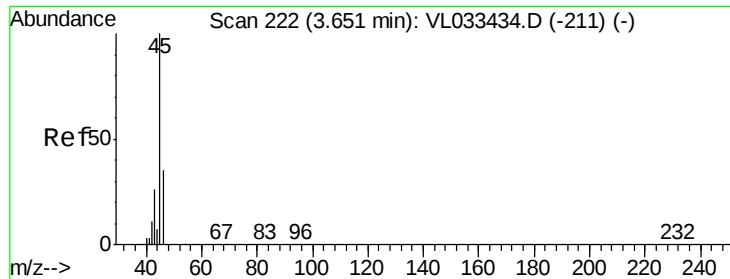
Tgt Ion: 43 Resp: 37188

Ion Ratio Lower Upper

43 100

57 52.6 40.6 60.8





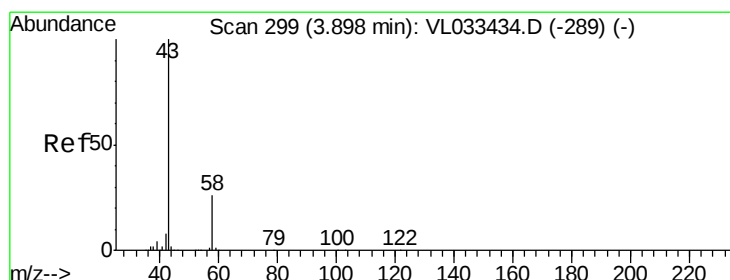
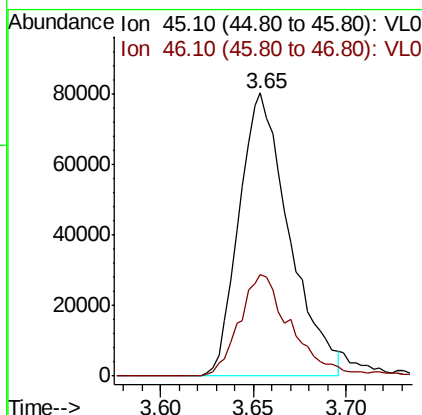
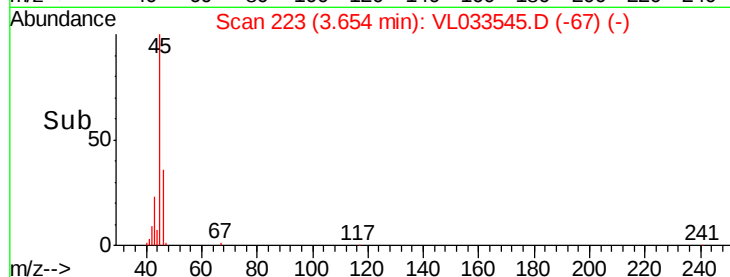
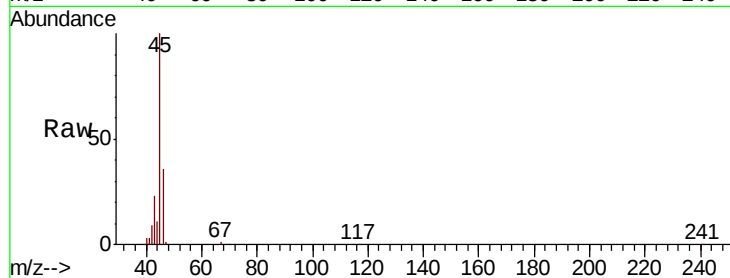
#13
Ethanol
Concen: 10.527 ppbv
RT: 3.65 min Scan# 223
Delta R.T. 0.00 min
Lab File: VL033545.D
Acq: 4 Apr 2019 22:55

Instrument :
MSVOA_L
ClientSampleId :
A-5DL

Tot Ion	45	Resp	151441
Ion Ratio	100	Lower	Upper
45	100		
46	37.6	25.4	101.8

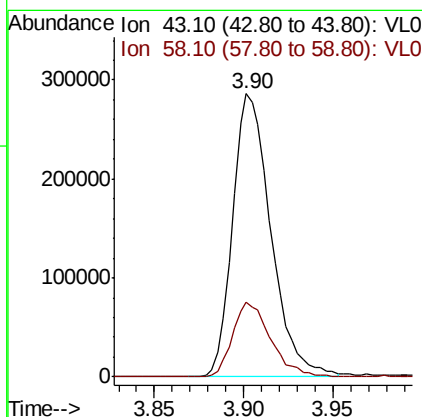
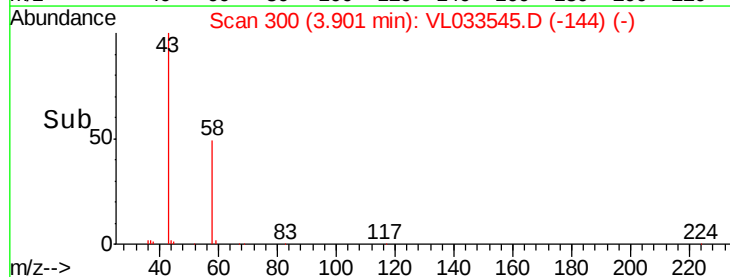
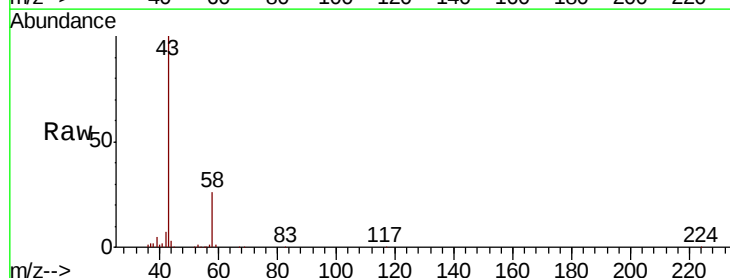
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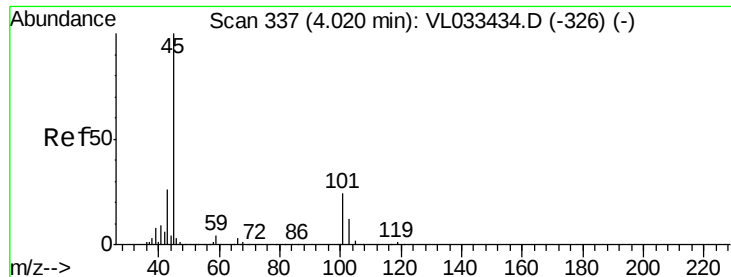
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#15
Acetone
Concen: 3.081 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.00 min
Lab File: VL033545.D
Acq: 4 Apr 2019 22:55

Tgt Ion	43	Resp	426003
Ion Ratio	100	Lower	Upper
43	100		
58	26.8	20.5	30.7





#19

Isopropyl Alcohol

Concen: 0.545 ppbv

RT: 4.04 min Scan# 343

Delta R.T. 0.02 min

Lab File: VL033545.D

Acq: 4 Apr 2019 22:55

Instrument :

MSVOA_L

ClientSampled :

A-5DL

Tot Ion: 45 Resp: 47697

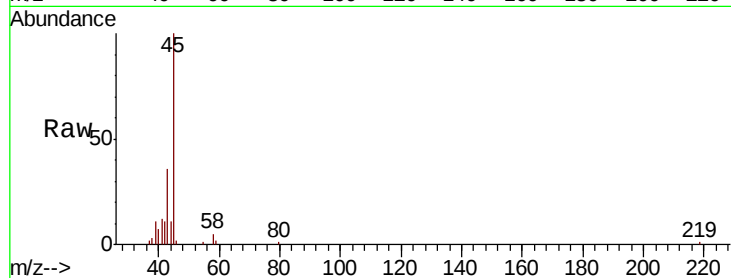
Ion Ratio Lower Upper

45 100

58 236.8 1.4 2.2#

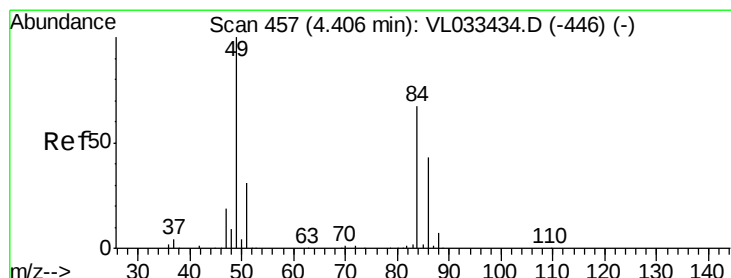
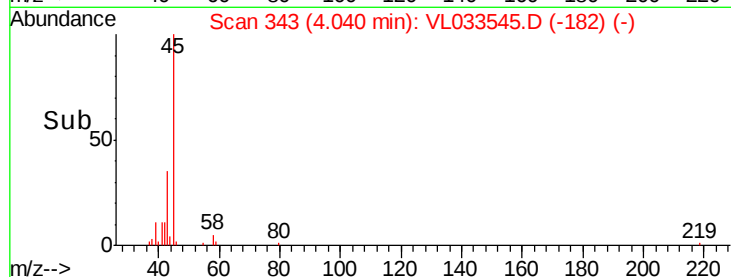
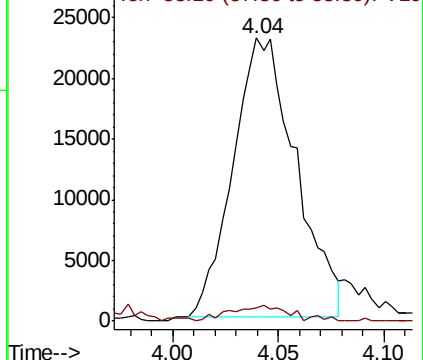
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Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#20

Methylene Chloride

Concen: 0.741 ppbv

RT: 4.41 min Scan# 458

Delta R.T. 0.00 min

Lab File: VL033545.D

Acq: 4 Apr 2019 22:55

Tgt Ion: 84 Resp: 43468

Ion Ratio Lower Upper

84 100

49 138.7 120.0 180.0

51 39.8 36.7 55.1

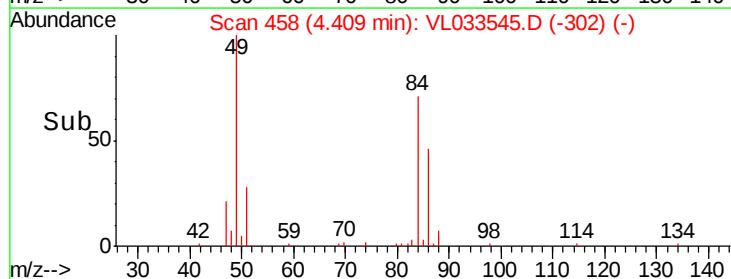
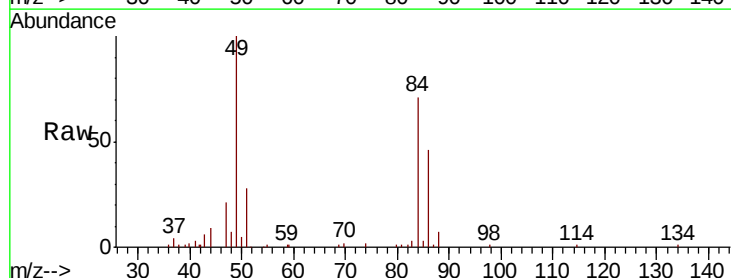
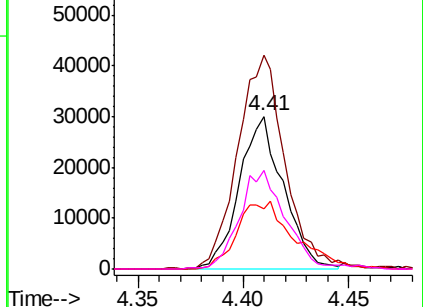
86 63.3 51.9 77.9

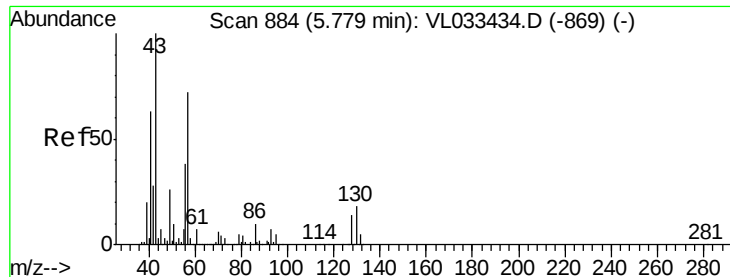
Abundance Ion 84.00 (83.70 to 84.70): VL0

Ion 49.10 (48.80 to 49.80): VL0

Ion 51.10 (50.80 to 51.80): VL0

Ion 86.00 (85.70 to 86.70): VL0





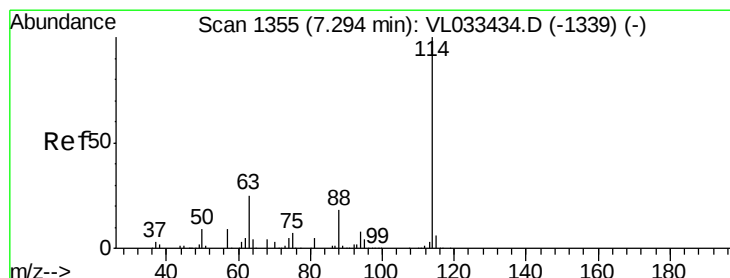
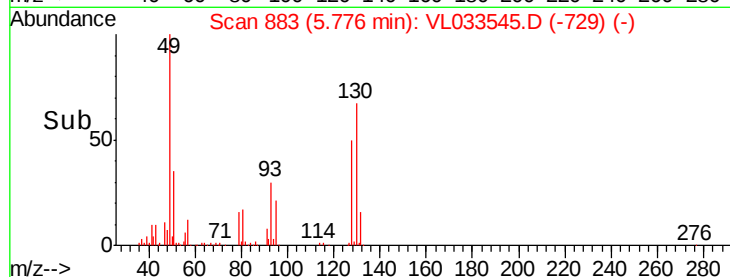
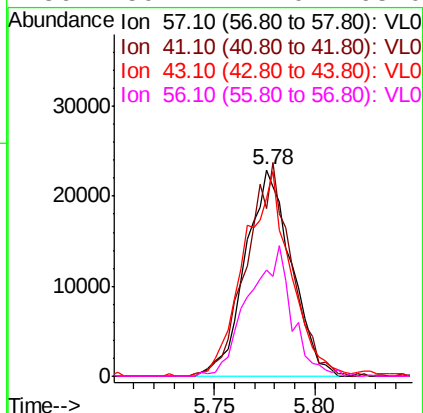
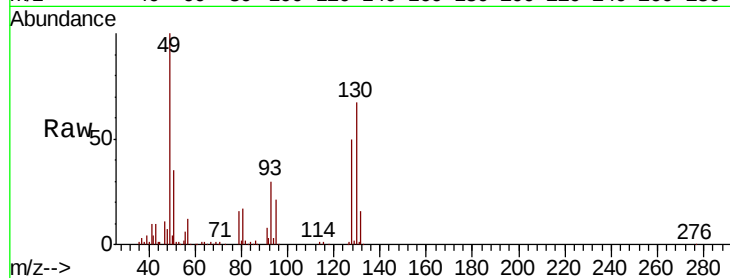
#26
Hexane
Concen: 0.321 ppbv
RT: 5.78 min Scan# 883
Delta R.T. -0.00 min
Lab File: VL033545.D
Acq: 4 Apr 2019 22:55

Instrument :
MSVOA_L
ClientSampled :
A-5DL

Tot Ion	57	Resp	36598
Ion	Ratio	Lower	Upper
57	100		
41	101.1	70.7	106.1
43	102.3	182.6	274.0#
56	59.4	42.0	63.0

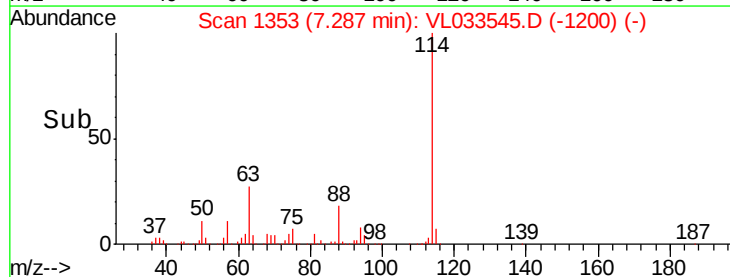
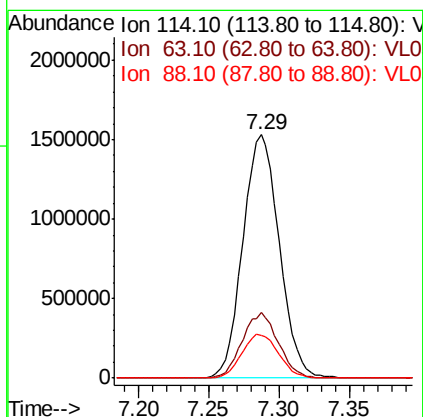
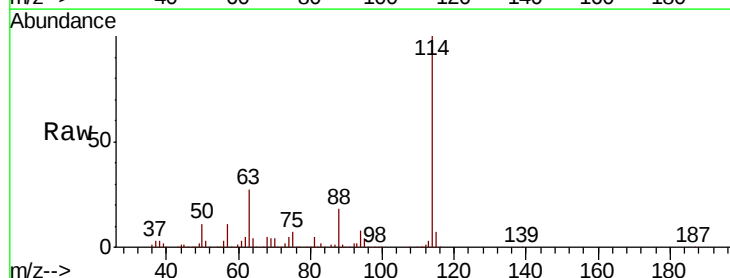
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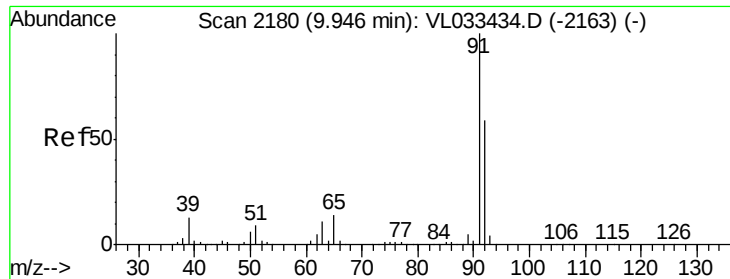
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#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.29 min Scan# 1353
Delta R.T. -0.01 min
Lab File: VL033545.D
Acq: 4 Apr 2019 22:55

Tgt Ion	114	Resp	2774993
Ion	Ratio	Lower	Upper
114	100		
63	26.7	21.5	32.3
88	18.2	14.5	21.7





#53

Toluene

Concen: 0.361 ppbv m

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033545.D

Acq: 4 Apr 2019 22:55

Instrument :

MSVOA_L

ClientSampled :

A-5DL

Tot Ion: 91 Resp: 97581

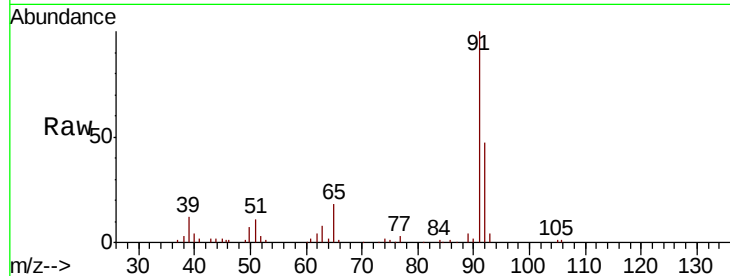
Ion Ratio Lower Upper

91 100

92 55.7 47.4 71.0

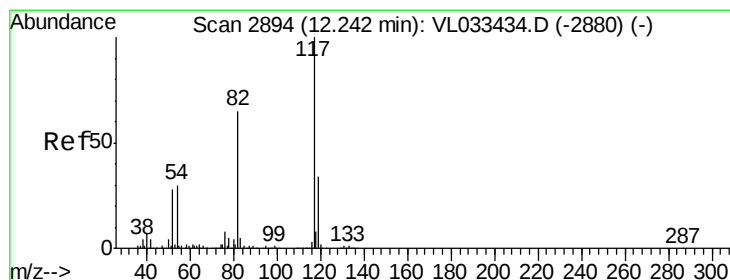
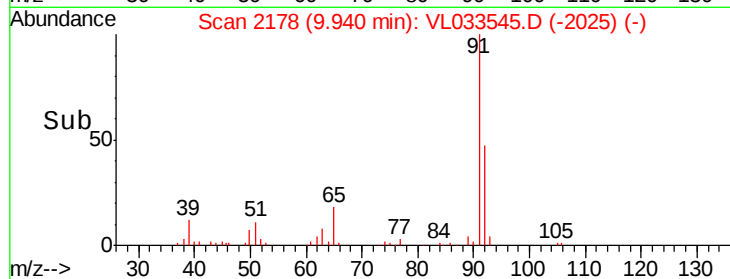
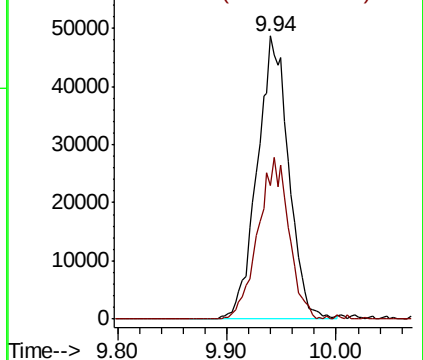
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Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0



#55

Chlorobenzene-d5

Concen: 10.000 ppbv

RT: 12.23 min Scan# 2891

Delta R.T. -0.01 min

Lab File: VL033545.D

Acq: 4 Apr 2019 22:55

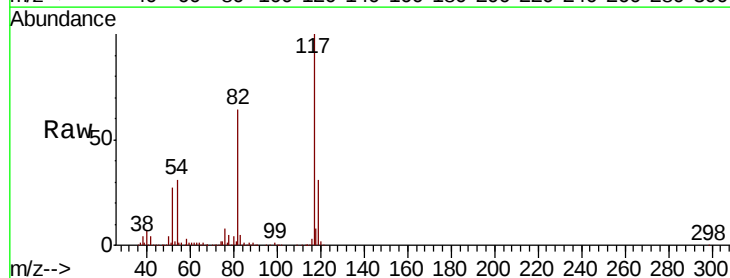
Tgt Ion: 117 Resp: 2730700

Ion Ratio Lower Upper

117 100

82 66.7 51.5 77.3

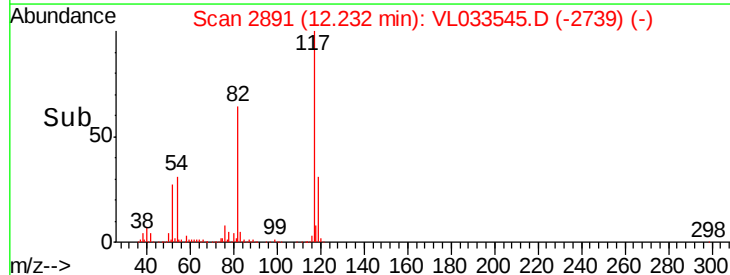
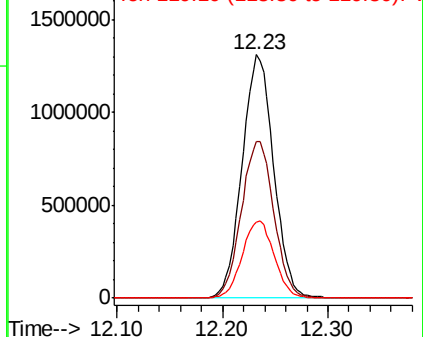
119 32.3 25.5 38.3

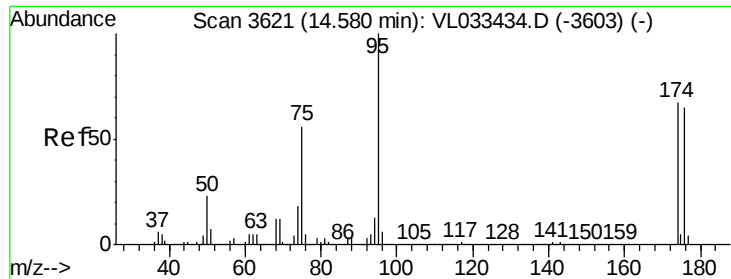


Abundance Ion 117.10 (116.80 to 117.80): V

Ion 82.10 (81.80 to 82.80): VL0

Ion 119.10 (118.80 to 119.80): V





#68
 1-Bromo-4-Fluorobenzene
 Concen: 10.164 ppbv
 RT: 14.57 min Scan# 3618
 Delta R.T. -0.01 min
 Lab File: VL033545.D
 Acq: 4 Apr 2019 22:55

Instrument :
 MSVOA_L
 ClientSampleId :
 A-5DL

Tot Ion: 95 Resp: 2175837

Ion	Ratio	Lower	Upper
95	100		
174	67.0	52.9	79.3
175	4.8	3.8	5.6

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