

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100819\
 Data File : VL034270.D
 Acq On : 9 Oct 2019 5:08
 Operator : SY/AP
 Sample : K5243-01DL 40X
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Manual Integrations
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 10/11/2019 5:08:20 PM

Quant Time: Oct 10 02:21:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep 18 2019
 QLast Update : Wed Sep 18 12:53:31 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	1044823	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1997313	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	2002582	10.00	ppbv	-0.02

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene		14.49	95	1695709	9.74	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	97.40%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	28830	0.187	ppbv	90
9) Propene	2.99	41	21578m	0.357	ppbv	
10) Heptane	8.17	43	53489	0.340	ppbv	99
13) Ethanol	3.60	45	11995m	0.820	ppbv	
15) Acetone	3.84	43	1584520	11.315	ppbv	97
17) tert-Butyl alcohol	4.30	59	20196	0.228	ppbv	95
19) Isopropyl Alcohol	3.96	45	1337725	15.535	ppbv	100
26) Hexane	5.70	57	100168	0.909	ppbv #	40
34) 2-Butanone	5.26	43	122510	0.601	ppbv	95
38) Trichloroethene	7.88	130	287881	3.652	ppbv	96
52) Tetrachloroethene	11.29	164	2022359	27.749	ppbv	96
53) Toluene	9.86	91	79044	0.328	ppbv	95
59) m/p-Xylene	13.03	91	108333m	0.405	ppbv	

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

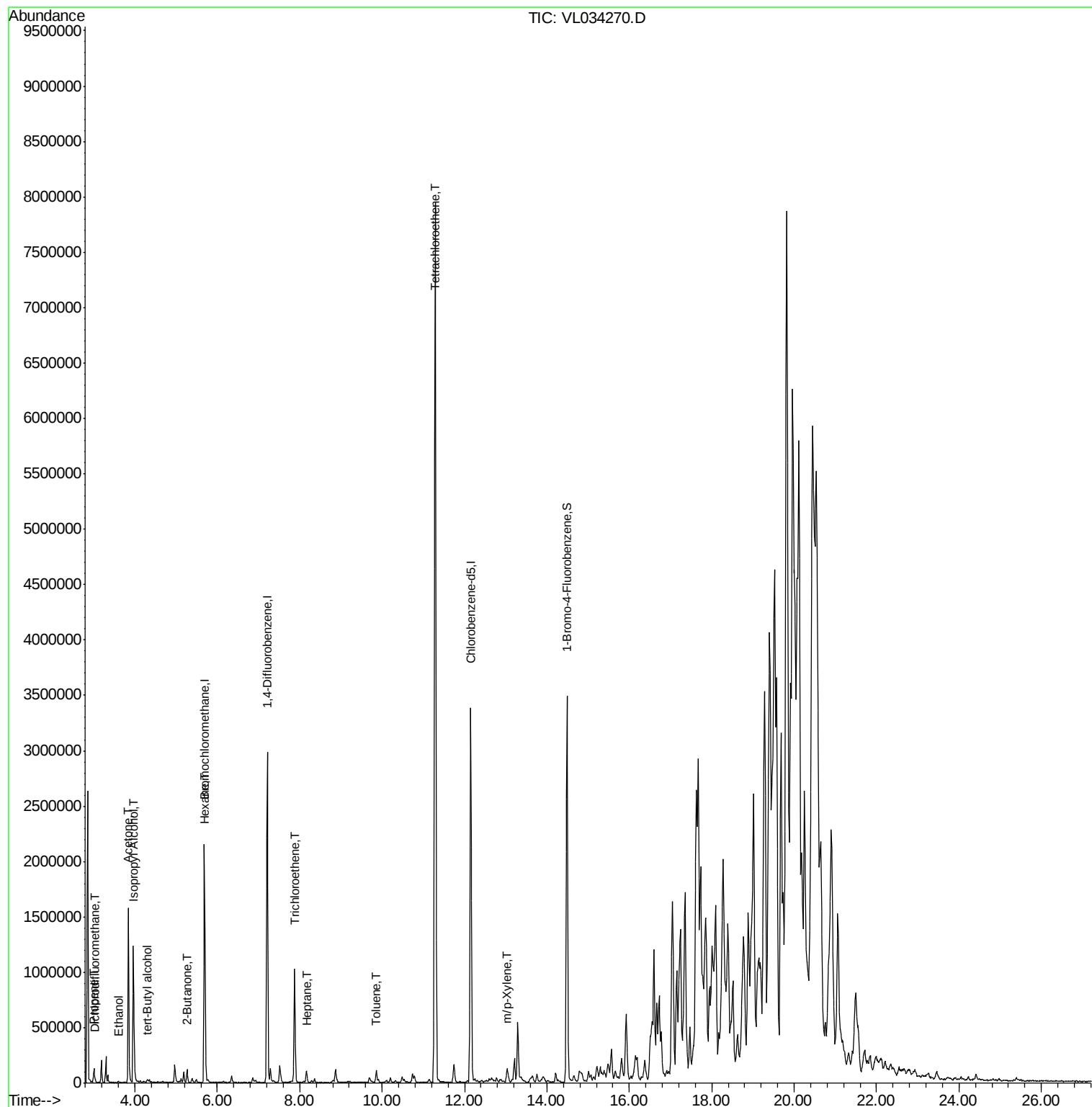
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100819\
Data File : VL034270.D
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Operator : SY/AP
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Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

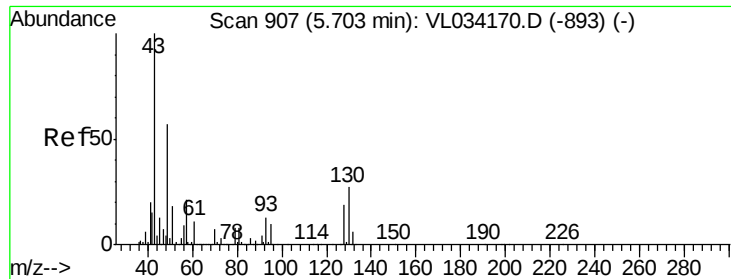
Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Manual Integrations
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10/11/2019 5:08:20 PM

Quant Time: Oct 10 02:21:17 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_L\METHODS\VL091719AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Wed Sep
QLast Update : Wed Sep 18 12:53:31 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.02 min

Lab File: VL034270.D

Acq: 9 Oct 2019 5:08

Instrument :

MSVOA_L

ClientSampled :

SV1DL

Tgt Ion: 49 Resp: 1044823

Ion Ratio Lower Upper

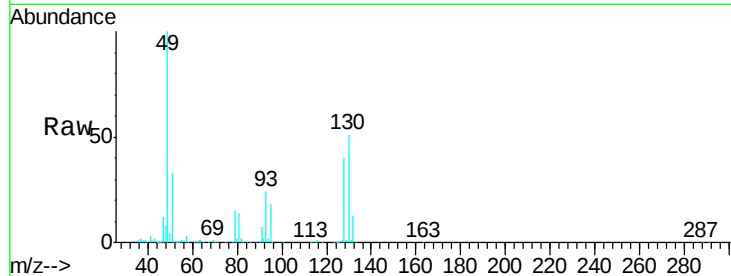
49 100

128 38.5 17.6 52.9

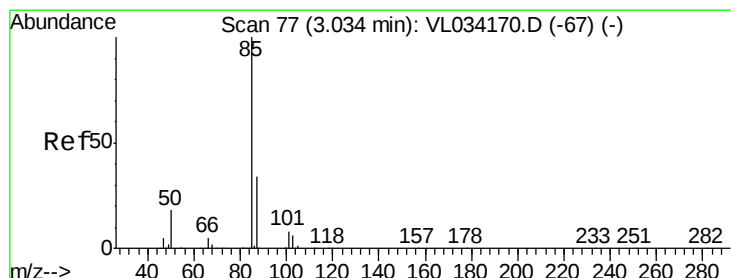
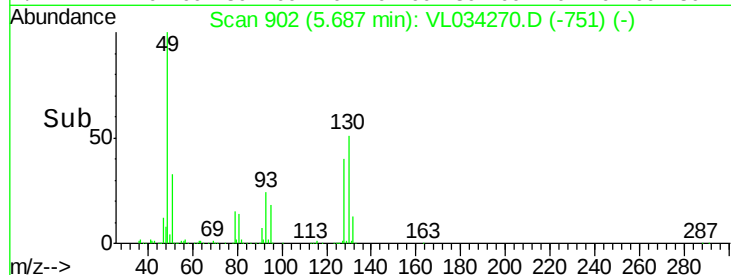
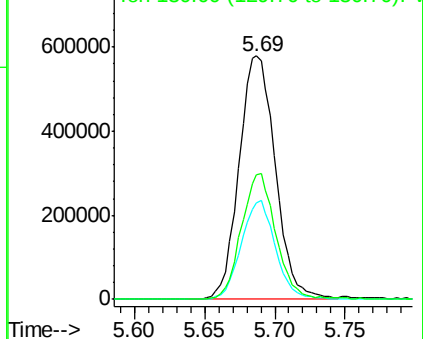
130 49.6 22.3 66.9

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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: 0.187 ppbv

RT: 3.03 min Scan# 75

Delta R.T. -0.01 min

Lab File: VL034270.D

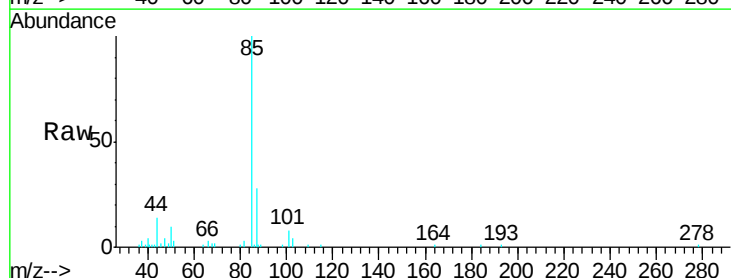
Acq: 9 Oct 2019 5:08

Tgt Ion: 85 Resp: 28830

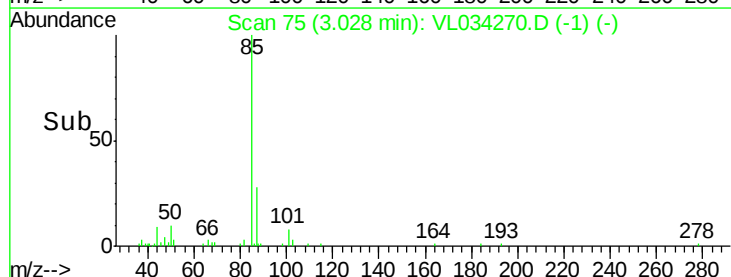
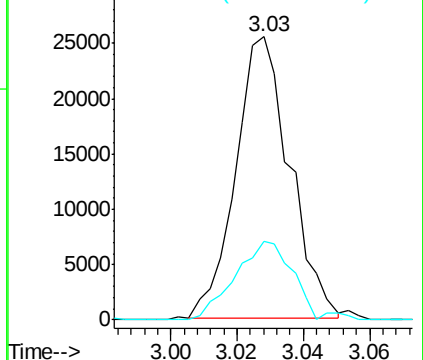
Ion Ratio Lower Upper

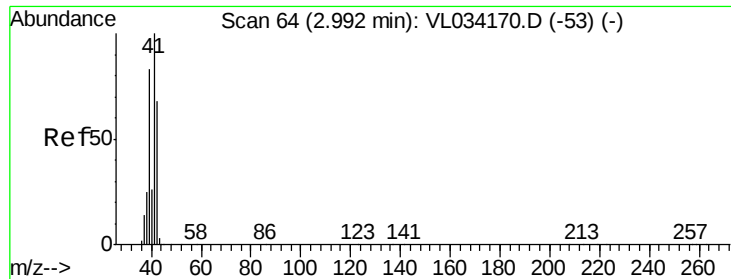
85 100

87 28.1 27.2 40.8



Abundance Ion 85.00 (84.70 to 85.70): VL0
Ion 87.00 (86.70 to 87.70): VL0





#9

Propene

Concen: 0.357 ppbv m

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034270.D

Acq: 9 Oct 2019 5:08

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion: 41 Resp: 21578

Ion Ratio Lower Upper

41 100

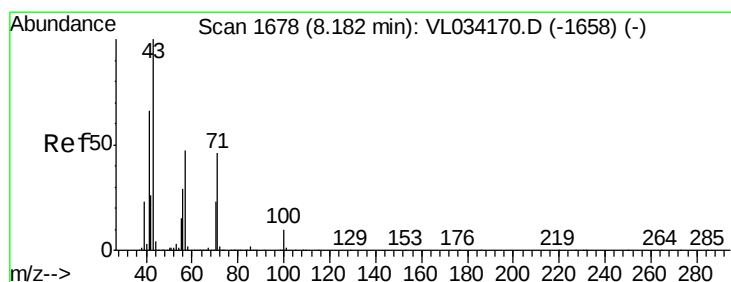
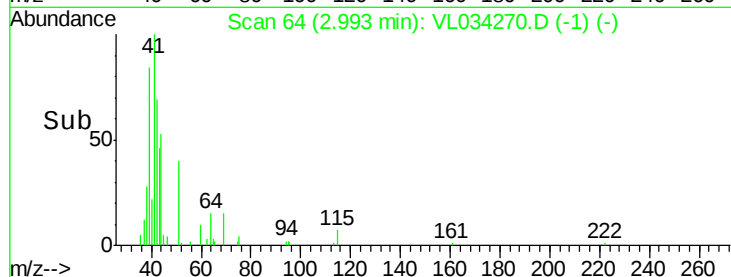
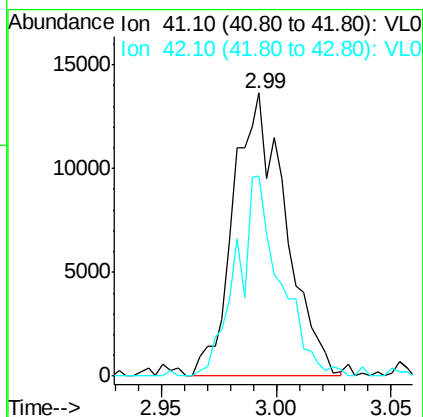
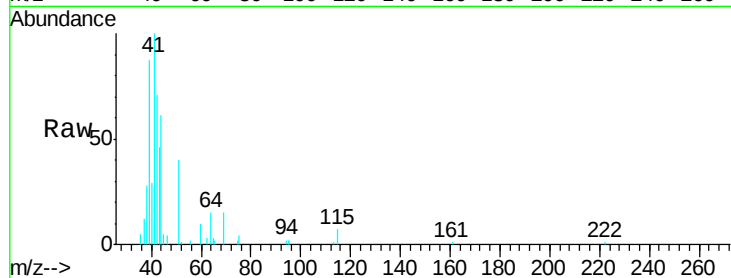
42 59.3 55.8 83.6

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#10

Heptane

Concen: 0.340 ppbv

RT: 8.17 min Scan# 1674

Delta R.T. -0.01 min

Lab File: VL034270.D

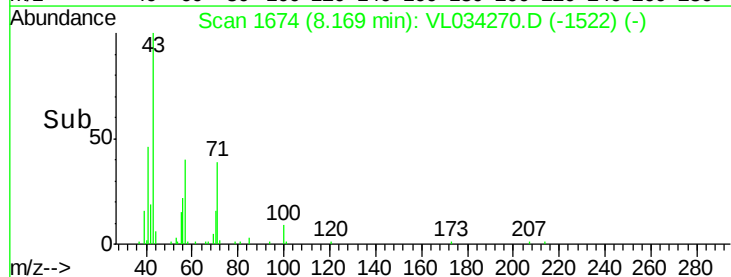
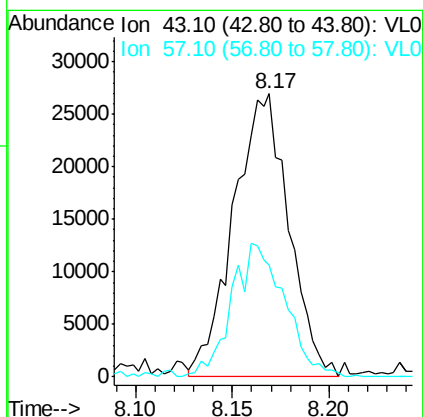
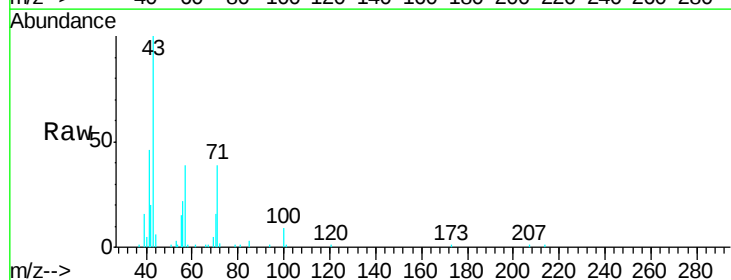
Acq: 9 Oct 2019 5:08

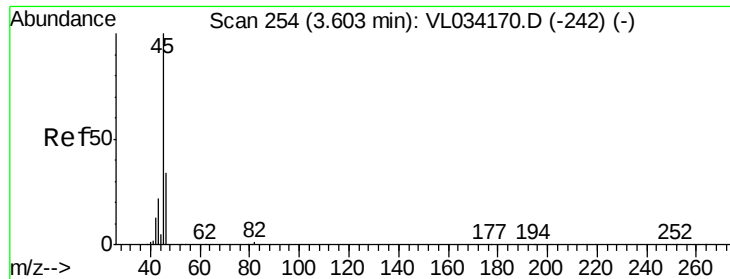
Tgt Ion: 43 Resp: 53489

Ion Ratio Lower Upper

43 100

57 46.0 37.5 56.3





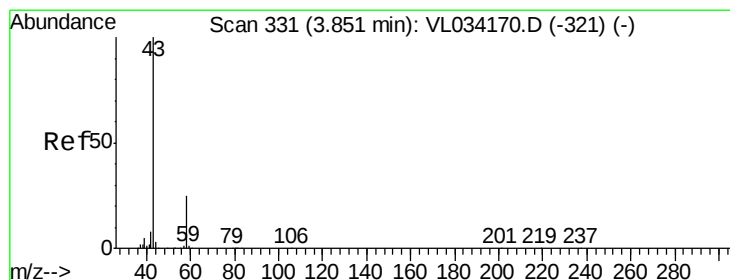
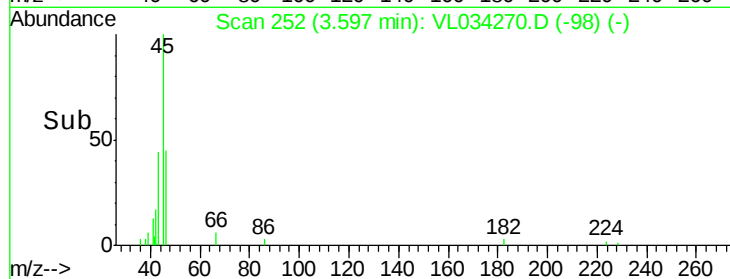
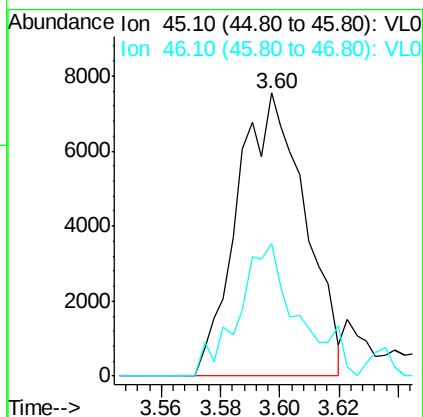
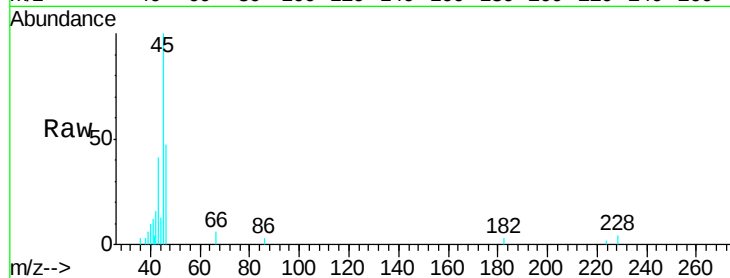
#13
Ethanol
Concen: 0.820 ppbv m
RT: 3.60 min Scan# 252
Delta R.T. -0.01 min
Lab File: VL034270.D
Acq: 9 Oct 2019 5:08

Instrument :
MSVOA_L
ClientSampled :
SV1DL

Tgt Ion: 45 Resp: 11995
Ion Ratio Lower Upper
45 100
46 0.0 15.5 61.9#

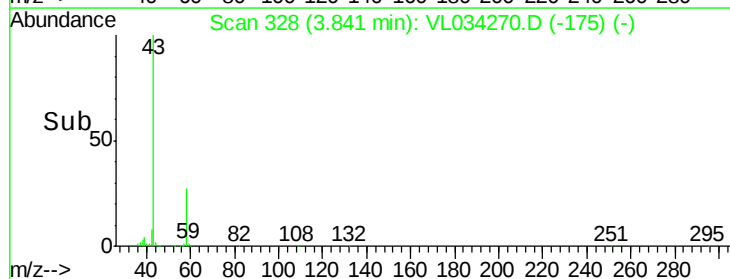
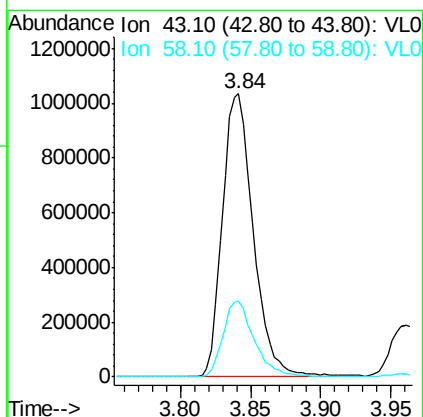
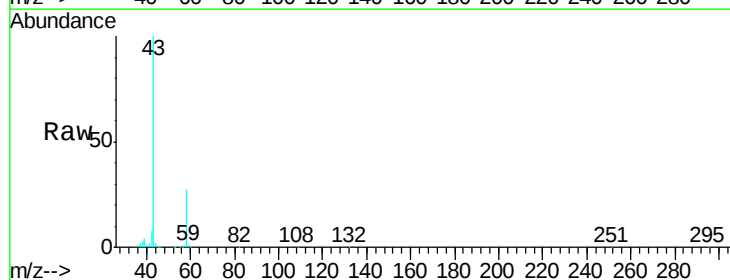
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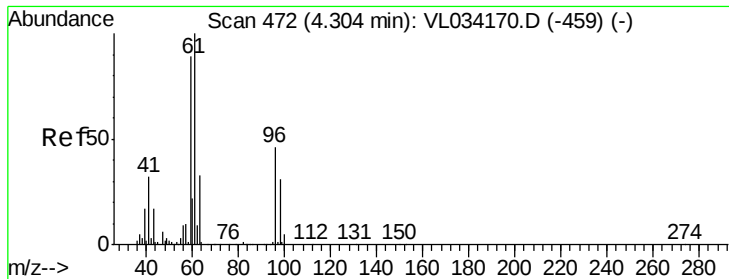
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#15
Acetone
Concen: 11.315 ppbv
RT: 3.84 min Scan# 328
Delta R.T. -0.01 min
Lab File: VL034270.D
Acq: 9 Oct 2019 5:08

Tgt Ion: 43 Resp: 1584520
Ion Ratio Lower Upper
43 100
58 27.2 20.5 30.7





#17

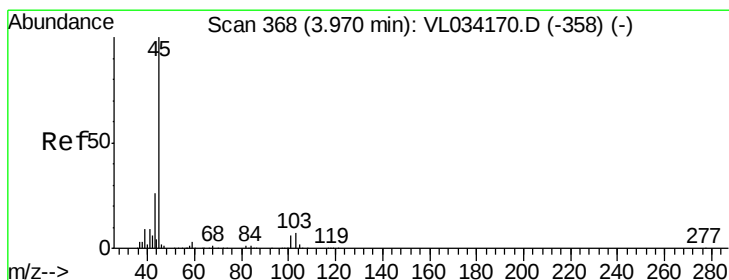
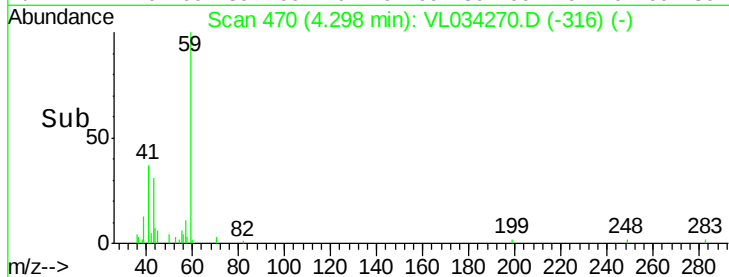
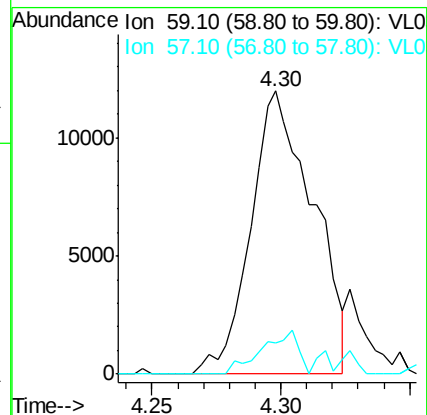
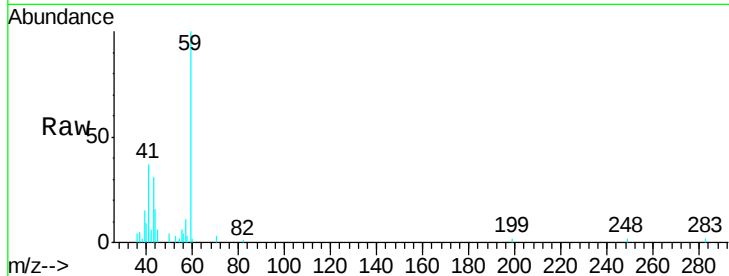
tert-Butyl alcohol
Concen: 0.228 ppbv
RT: 4.30 min Scan# 470
Delta R.T. -0.01 min
Lab File: VL034270.D
Acq: 9 Oct 2019 5:08

Instrument :
MSVOA_L
ClientSampled :
SV1DL

Tgt Ion	Ratio	Lower	Upper
59	100		
57	12.7	8.7	13.1

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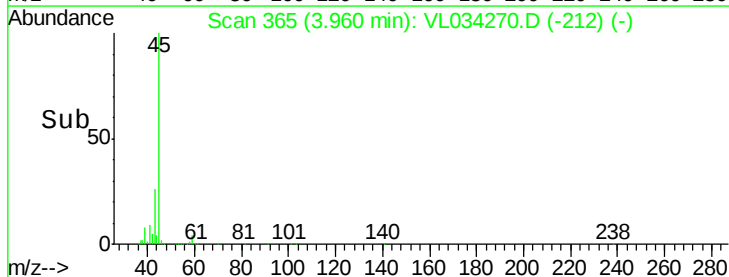
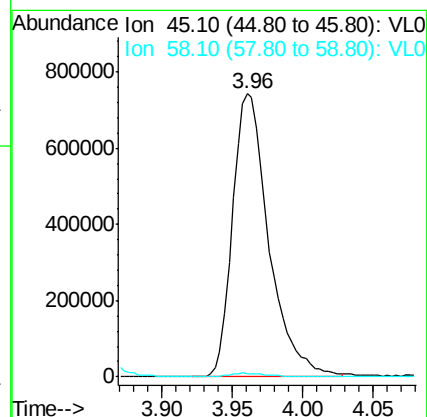
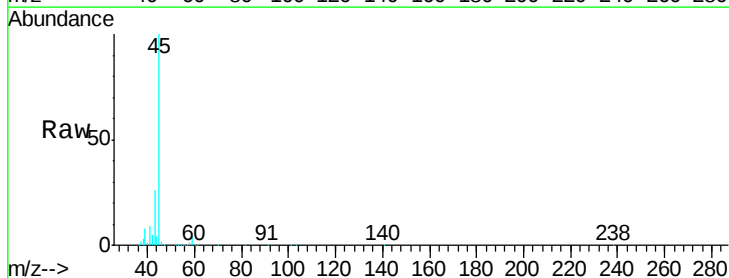
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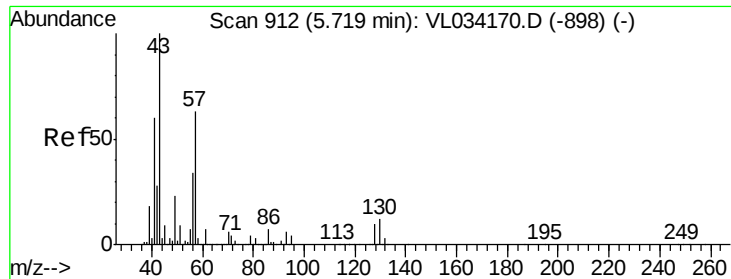


#19

Isopropyl Alcohol
Concen: 15.535 ppbv
RT: 3.96 min Scan# 365
Delta R.T. -0.01 min
Lab File: VL034270.D
Acq: 9 Oct 2019 5:08

Tgt Ion	Ratio	Lower	Upper
45	100		
58	1.7	1.4	2.0





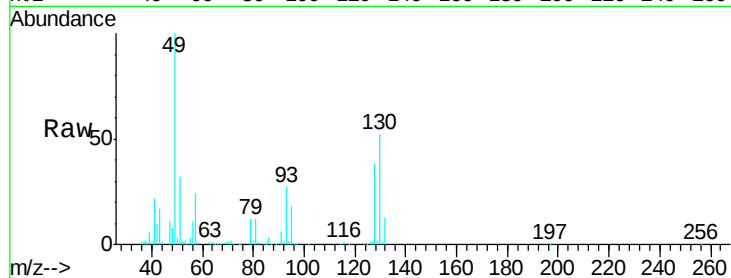
#26
Hexane
Concen: 0.909 ppbv
RT: 5.70 min Scan# 907
Delta R.T. -0.02 min
Lab File: VL034270.D
Acq: 9 Oct 2019 5:08

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion	Ratio	Lower	Upper
57	100		
41	94.0	78.5	117.7
43	72.6	189.5	284.3#
56	53.9	43.2	64.8

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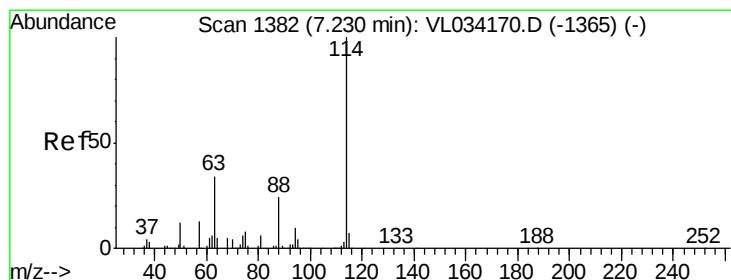
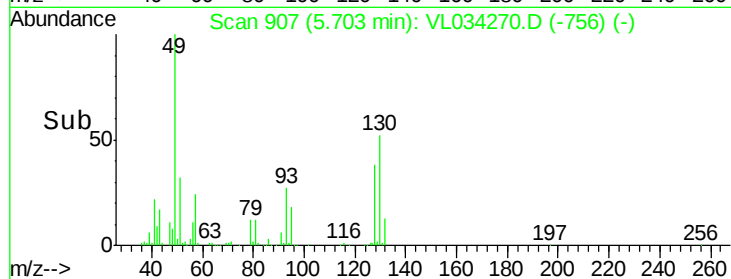
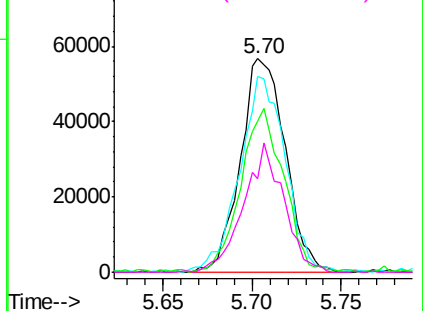


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



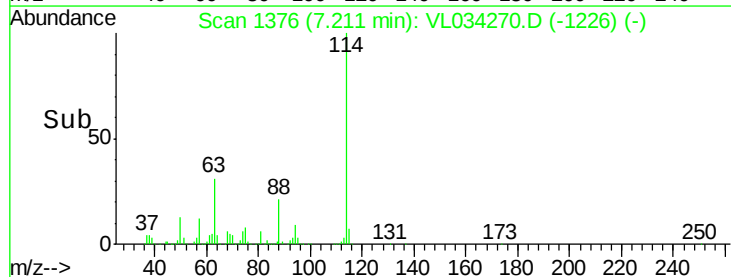
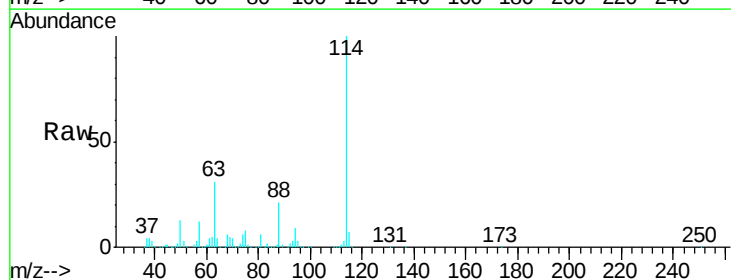
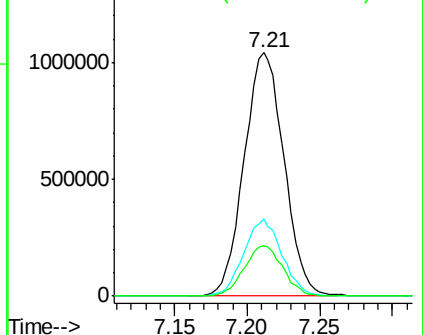
#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.21 min Scan# 1376
Delta R.T. -0.02 min
Lab File: VL034270.D
Acq: 9 Oct 2019 5:08

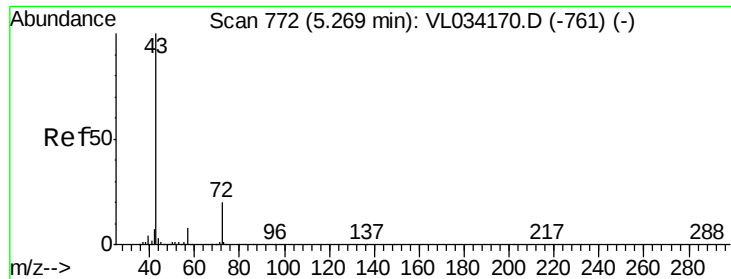
Tgt Ion	Ratio	Lower	Upper
114	100		
63	30.4	27.8	41.6
88	20.3	17.1	25.7

Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





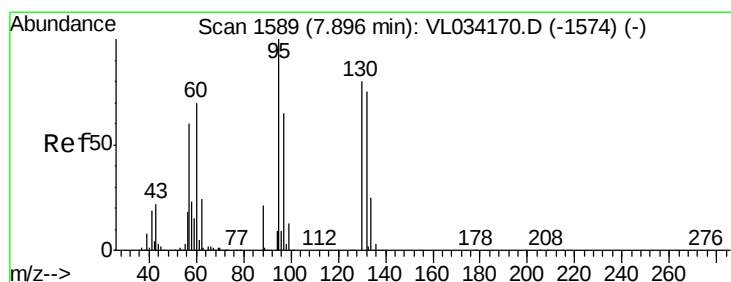
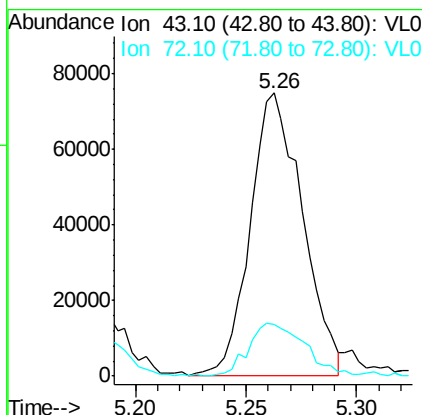
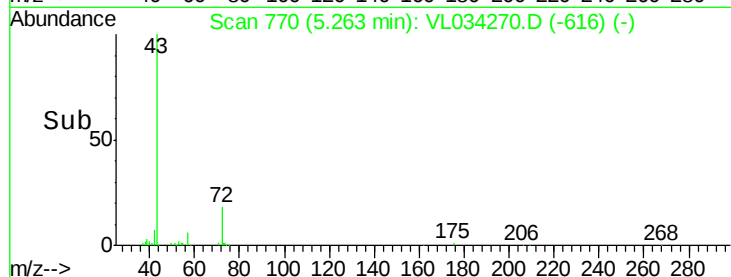
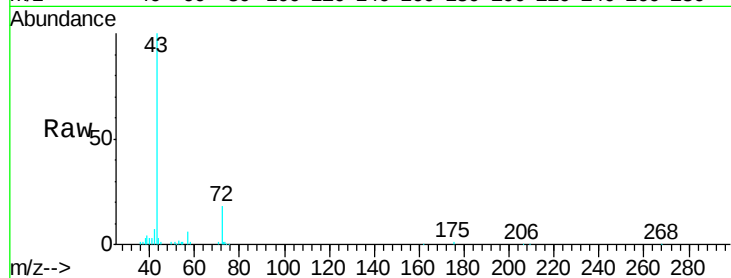
#34
2-Butanone
Concen: 0.601 ppbv
RT: 5.26 min Scan# 770
Delta R.T. -0.01 min
Lab File: VL034270.D
Acq: 9 Oct 2019 5:08

Instrument :
MSVOA_L
ClientSampleId :
SV1DL

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.9	15.0	22.6

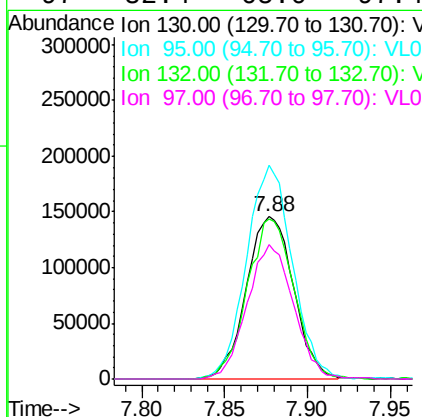
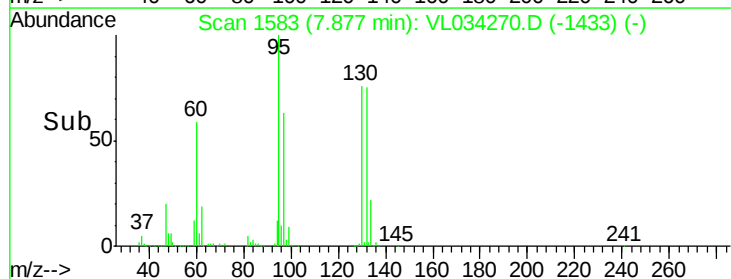
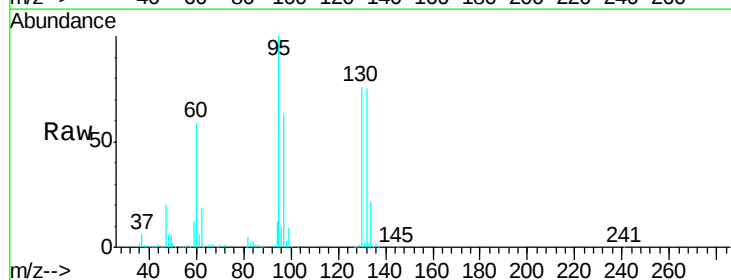
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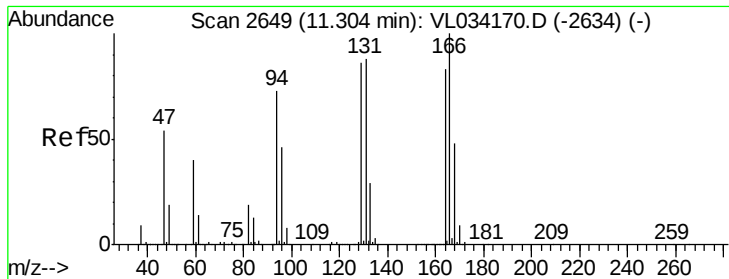
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#38
Trichloroethene
Concen: 3.652 ppbv
RT: 7.88 min Scan# 1583
Delta R.T. -0.02 min
Lab File: VL034270.D
Acq: 9 Oct 2019 5:08

Tgt Ion	Ratio	Lower	Upper
130	100		
95	131.5	99.8	149.6
132	98.7	75.2	112.8
97	82.4	65.0	97.4





#52

Tetrachloroethene

Concen: 27.749 ppbv

RT: 11.29 min Scan# 2644

Delta R.T. -0.02 min

Lab File: VL034270.D

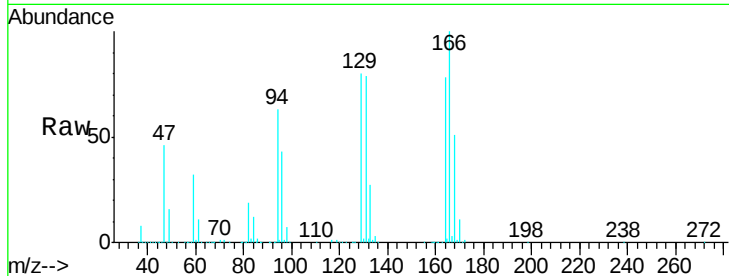
Acq: 9 Oct 2019 5:08

Instrument :

MSVOA_L

ClientSampleId :

SV1DL



Tgt Ion:164 Resp: 2022359

Ion Ratio Lower Upper

164 100

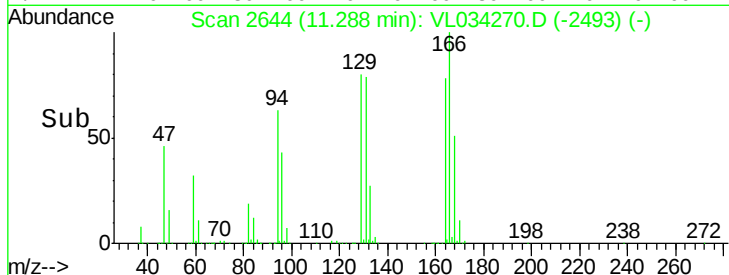
166 127.6 96.7 145.1

129 102.5 82.8 124.2

131 100.2 85.0 127.6

Manual Integrations
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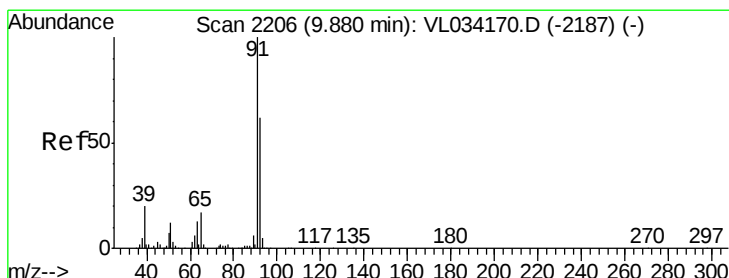
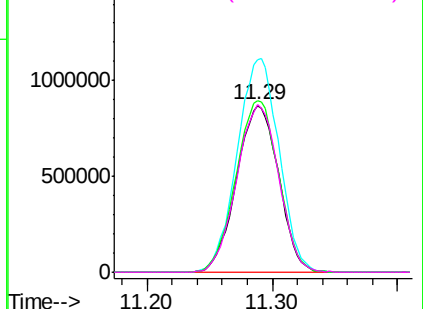


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.328 ppbv

RT: 9.86 min Scan# 2200

Delta R.T. -0.02 min

Lab File: VL034270.D

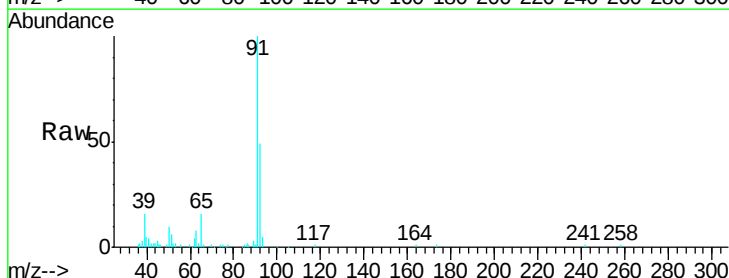
Acq: 9 Oct 2019 5:08

Tgt Ion: 91 Resp: 79044

Ion Ratio Lower Upper

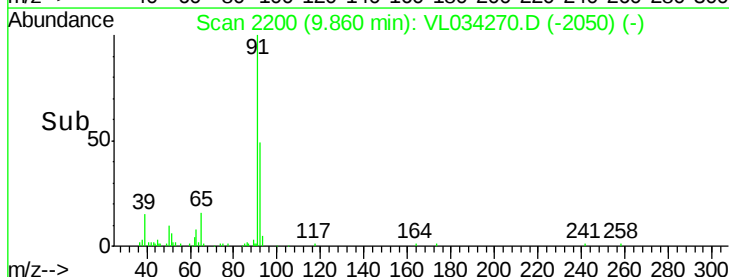
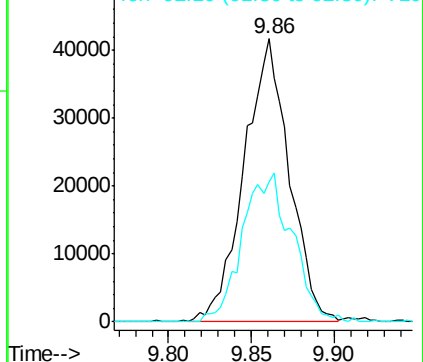
91 100

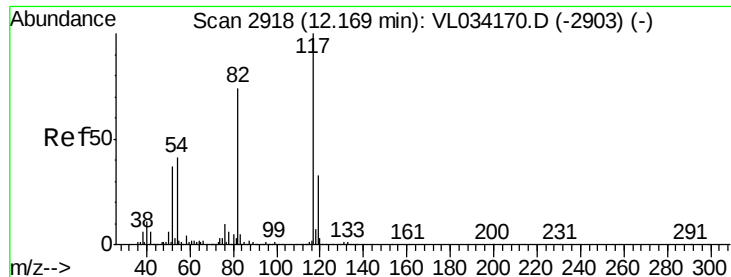
92 57.8 49.0 73.6



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: 12.15 min Scan# 2912

Delta R.T. -0.02 min

Lab File: VL034270.D

Acq: 9 Oct 2019 5:08

Instrument :

MSVOA_L

ClientSampleId :

SV1DL

Tgt Ion: 117 Resp: 2002582

Ion Ratio Lower Upper

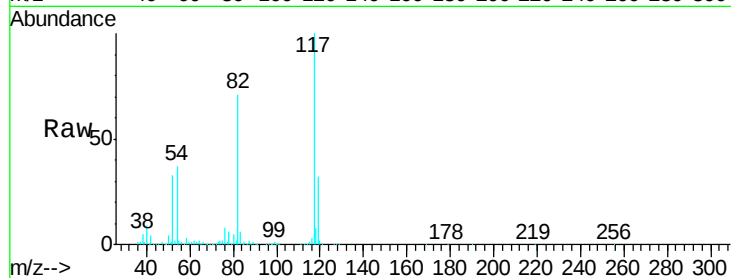
117 100

82 73.5 58.2 87.4

119 32.9 23.7 35.5

Manual Integrations
APPROVED

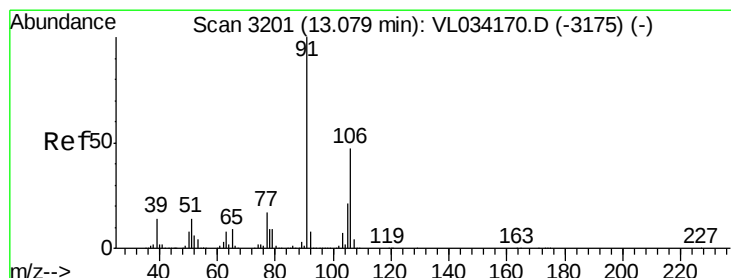
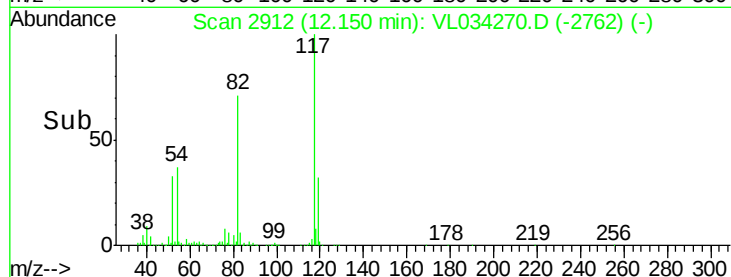
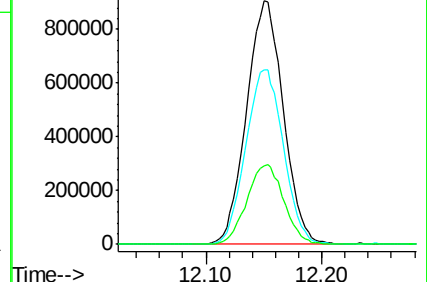
MMDadoda
10/11/2019 5:08:20 PM



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



#59

m/p-Xylene

Concen: 0.405 ppbv m

RT: 13.03 min Scan# 3186

Delta R.T. -0.05 min

Lab File: VL034270.D

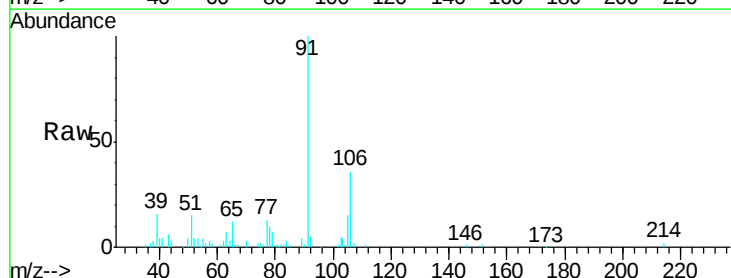
Acq: 9 Oct 2019 5:08

Tgt Ion: 91 Resp: 108333

Ion Ratio Lower Upper

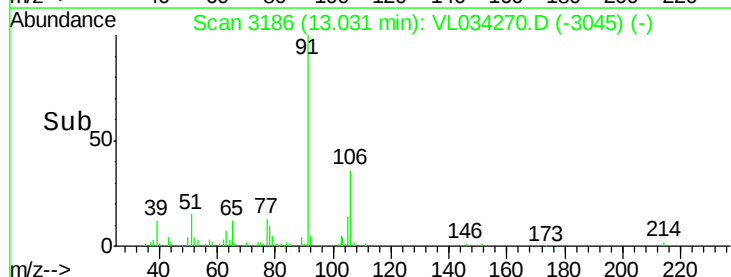
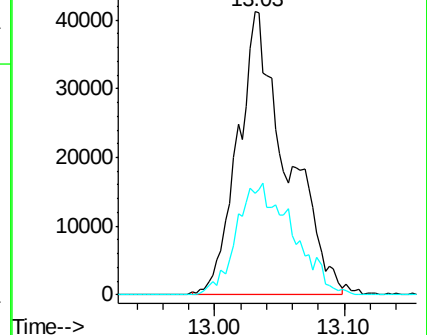
91 100

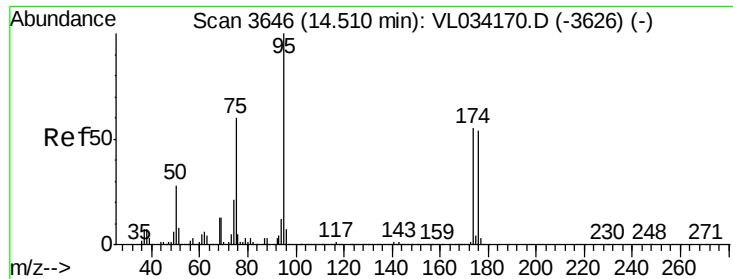
106 0.0 35.5 53.3#



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: 9.745 ppbv
 RT: 14.49 min Scan# 3640
 Delta R.T. -0.02 min
 Lab File: VL034270.D
 Acq: 9 Oct 2019 5:08

Instrument :
 MSVOA_L
 ClientSampleId :
 SV1DL

Tgt Ion	Ratio	Lower	Upper
95	100		
174	61.0	45.1	67.7
175	4.5	3.3	4.9

Manual Integrations
 APPROVED

MMDadoda
 10/11/2019 5:08:20 PM

