

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL100219\
 Data File : VL034215.D
 Acq On : 2 Oct 2019 17:51
 Operator : SY/AP
 Sample : K5106-03DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL

Manual Integrations
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Quant Time: Oct 04 21:24:32 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	5.70	49	925600	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.22	114	1705998	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.16	117	1729408	10.00	ppbv	0.00

System Monitoring Compounds		R.T.	QIon	Response	Conc	Units	Dev(Min)
68) 1-Bromo-4-Fluorobenzene	14.49	95	1472332	9.80	ppbv	-0.02	
Spiked Amount	10.000	Range	65 - 135	Recovery	=	98.00%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
4) Chloromethane	3.12	50	20202	0.317	ppbv #	85
9) Propene	2.99	41	2096005	39.145	ppbv	95
10) Heptane	8.18	43	320983	2.300	ppbv	100
13) Ethanol	3.60	45	84305	6.502	ppbv	97
15) Acetone	3.85	43	1283650m	10.347	ppbv	
17) tert-Butyl alcohol	4.31	59	131245	1.670	ppbv	99
19) Isopropyl Alcohol	3.98	45	38167	0.500	ppbv #	95
26) Hexane	5.71	57	132521	1.358	ppbv #	40
27) Carbon Disulfide	4.56	76	77443	0.860	ppbv	93
29) Chloroform	5.78	83	205562	1.474	ppbv	95
30) Cyclohexane	7.18	84	119838	1.701	ppbv #	83
34) 2-Butanone	5.27	43	336261	1.930	ppbv	96
36) Benzene	6.93	78	97183	0.516	ppbv	97
44) 2,2,4-Trimethylpentane	7.92	57	254500m	0.702	ppbv	
52) Tetrachloroethene	11.29	164	105458m	1.694	ppbv	
53) Toluene	9.87	91	81602m	0.396	ppbv	
59) m/p-Xylene	13.04	91	61720m	0.267	ppbv	

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

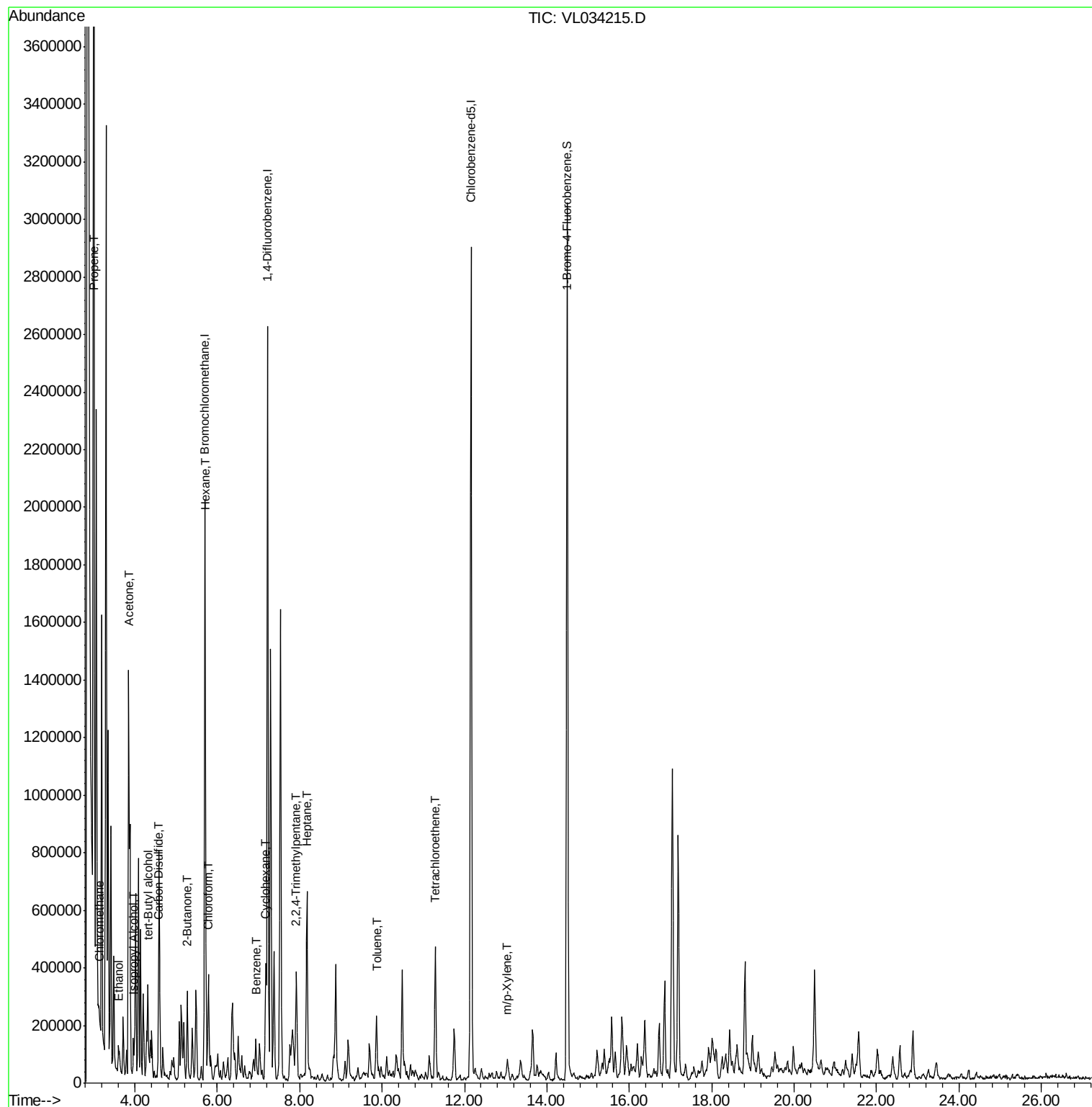
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL100219\
Data File : VL034215.D
Acq On : 2 Oct 2019 17:51
Operator : SY/AP
Sample : K5106-03DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

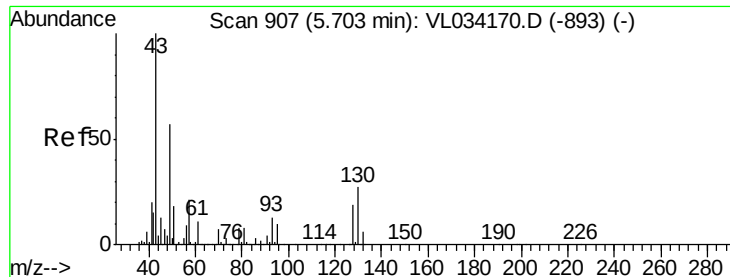
Instrument :
MSVOA_L
ClientSampleId :
SV-3DL

Manual Integrations
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Quant Time: Oct 04 21:24:32 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: 5.70 min Scan# 905

Delta R.T. -0.01 min

Lab File: VL034215.D

Acq: 2 Oct 2019 17:51

Instrument :

MSVOA_L

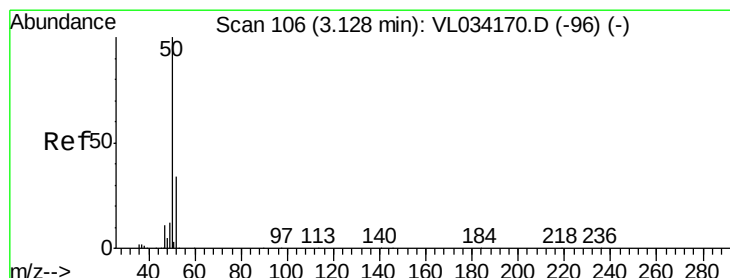
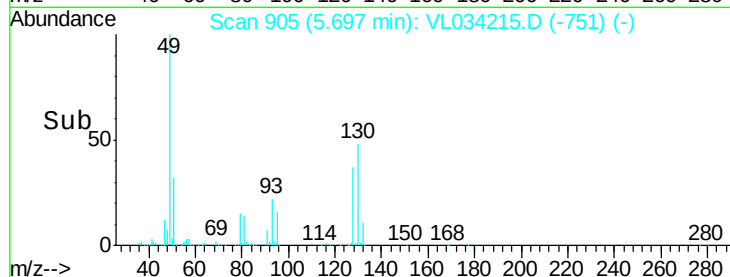
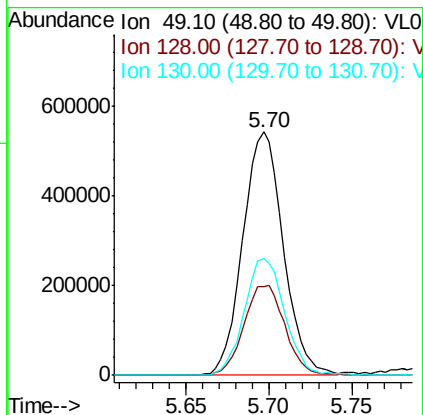
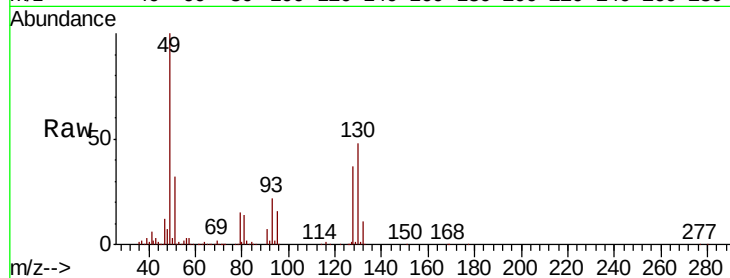
ClientSampled :

SV-3DL

Tot Ion:	49	Resp:	925600
Ion	Ratio	Lower	Upper
49	100		
128	38.1	17.6	52.9
130	48.2	22.3	66.9

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#4

Chloromethane

Concen: 0.317 ppbv

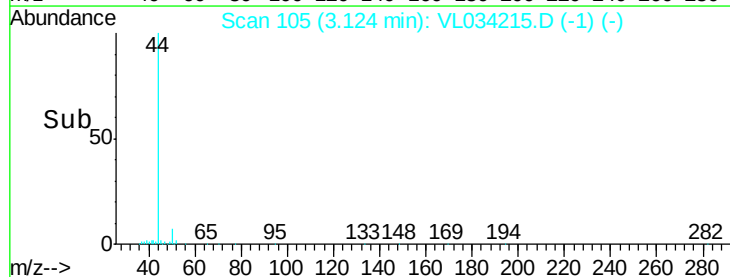
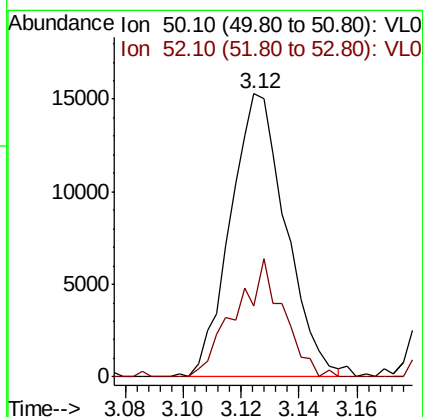
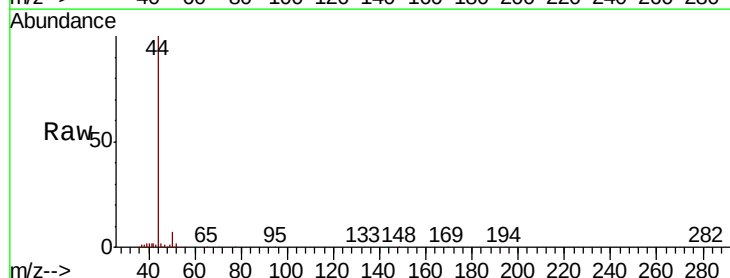
RT: 3.12 min Scan# 105

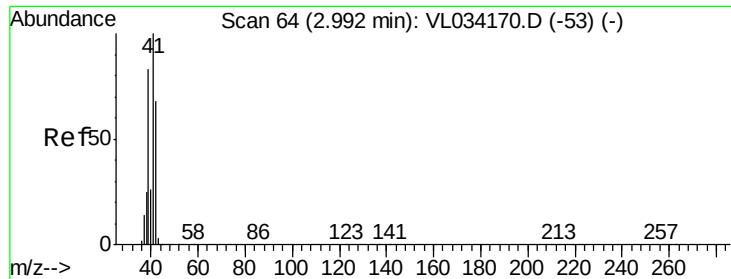
Delta R.T. -0.00 min

Lab File: VL034215.D

Acq: 2 Oct 2019 17:51

Tgt Ion:	50	Resp:	20202
Ion	Ratio	Lower	Upper
50	100		
52	25.2	27.1	40.7#





#9

Propene

Concen: 39.145 ppbv

RT: 2.99 min Scan# 64

Delta R.T. 0.00 min

Lab File: VL034215.D

Acq: 2 Oct 2019 17:51

Instrument :

MSVOA_L

ClientSampleId :

SV-3DL

Tot Ion: 41 Resp: 2096005

Ion Ratio Lower Upper

41 100

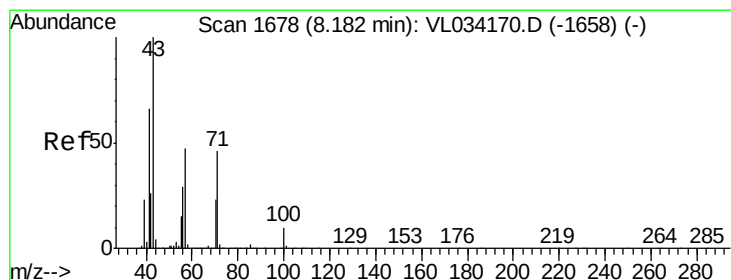
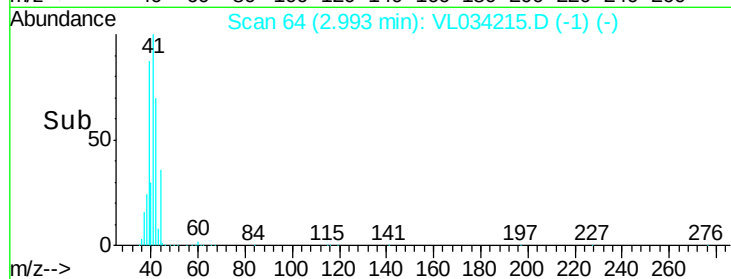
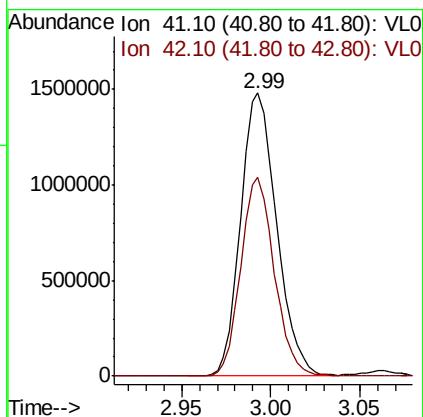
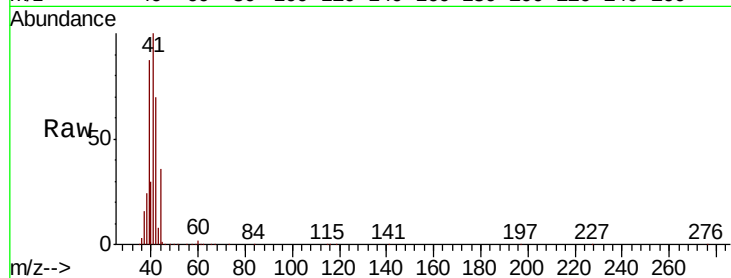
42 65.9 55.8 83.6

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#10

Heptane

Concen: 2.300 ppbv

RT: 8.18 min Scan# 1676

Delta R.T. -0.01 min

Lab File: VL034215.D

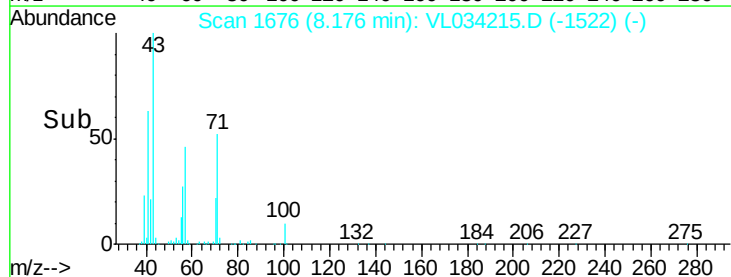
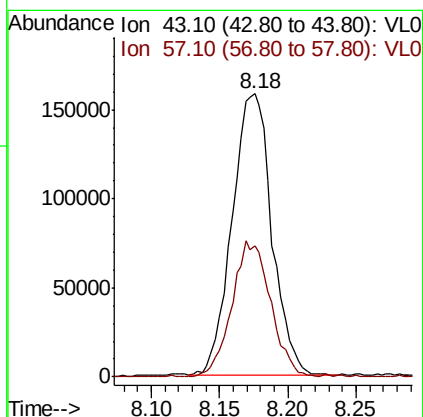
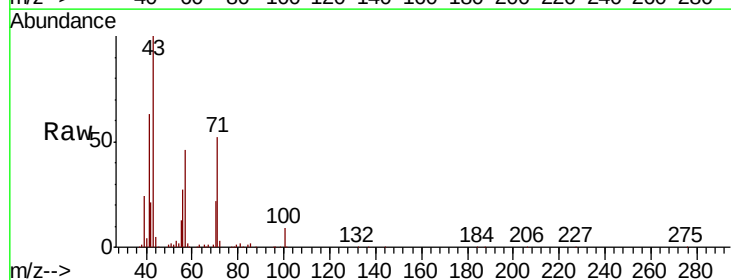
Acq: 2 Oct 2019 17:51

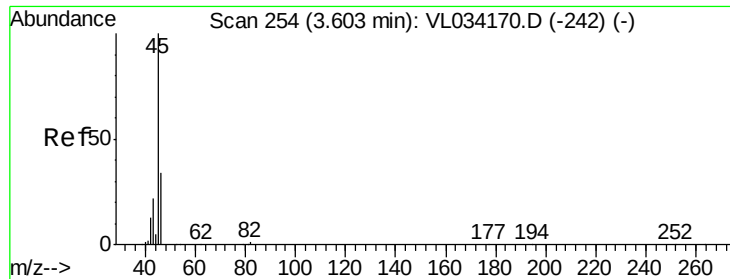
Tgt Ion: 43 Resp: 320983

Ion Ratio Lower Upper

43 100

57 47.1 37.5 56.3





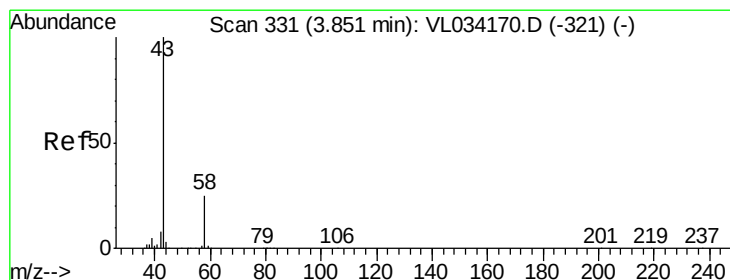
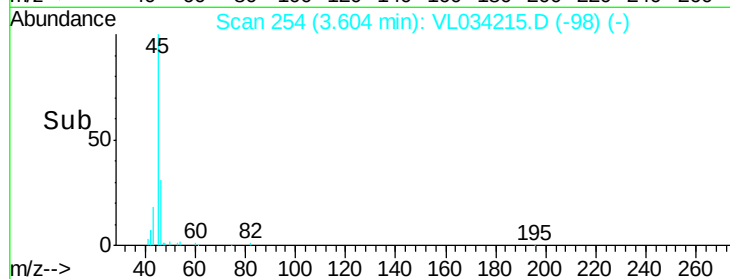
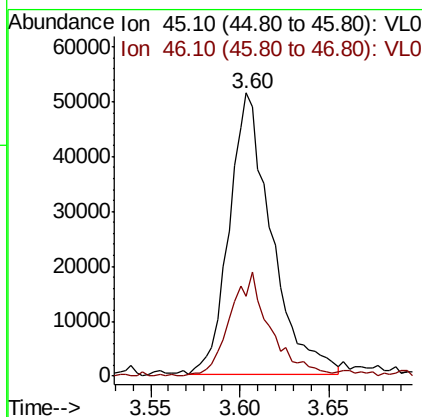
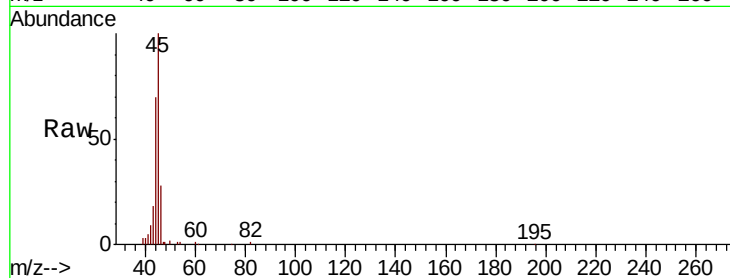
#13
Ethanol
Concen: 6.502 ppbv
RT: 3.60 min Scan# 254
Delta R.T. 0.00 min
Lab File: VL034215.D
Acq: 2 Oct 2019 17:51

Instrument :
MSVOA_L
ClientSampled :
SV-3DL

Tot Ion	45	46	Ratio	Lower	Upper
45	100				
46	36.8		15.5	61.9	

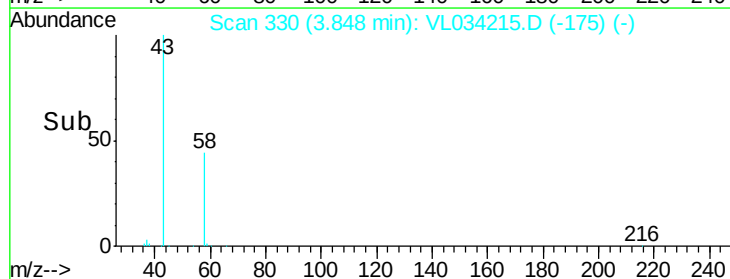
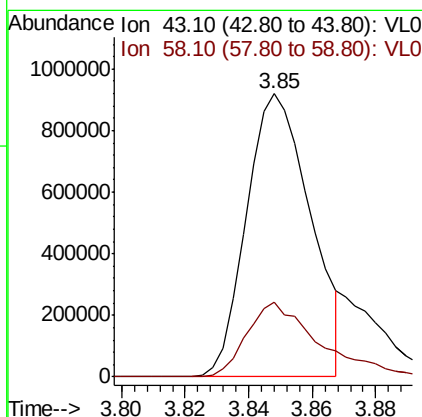
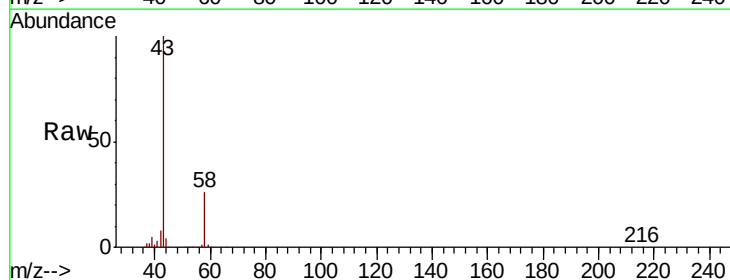
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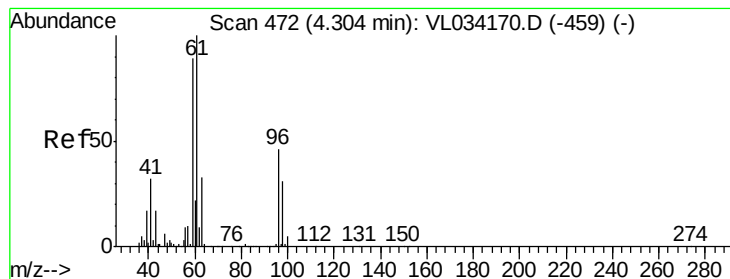
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#15
Acetone
Concen: 10.347 ppbv m
RT: 3.85 min Scan# 330
Delta R.T. -0.00 min
Lab File: VL034215.D
Acq: 2 Oct 2019 17:51

Tgt Ion	43	58	Ratio	Lower	Upper
43	100				
58	30.5		20.5	30.7	





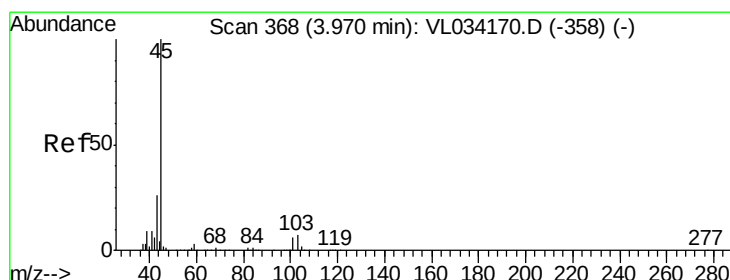
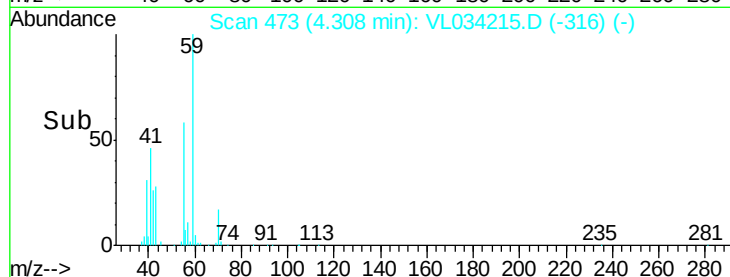
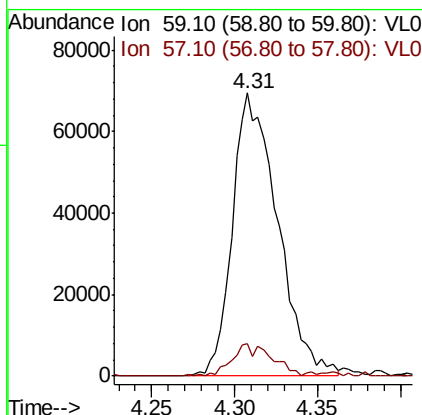
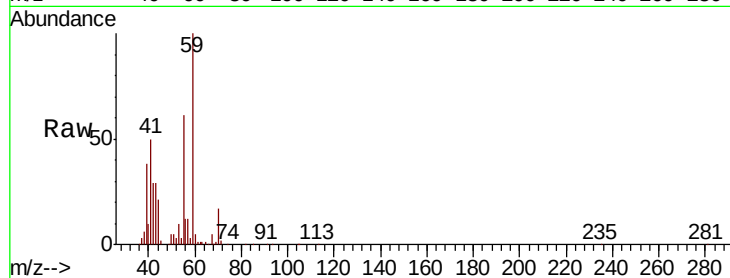
#17
 tert-Butyl alcohol
 Concen: 1.670 ppbv
 RT: 4.31 min Scan# 473
 Delta R.T. 0.00 min
 Lab File: VL034215.D
 Acq: 2 Oct 2019 17:51

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL

Tot Ion: 59 Resp: 131245
 Ion Ratio Lower Upper
 59 100
 57 10.5 8.7 13.1

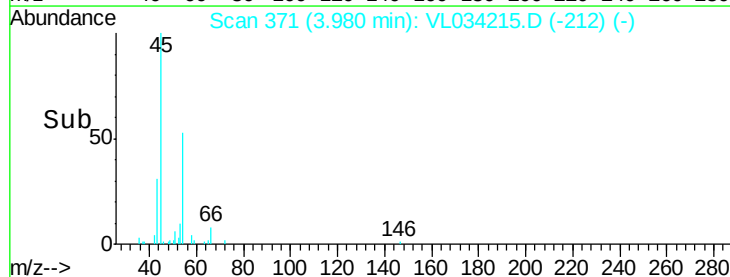
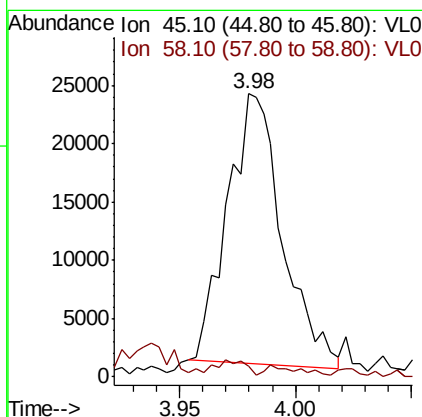
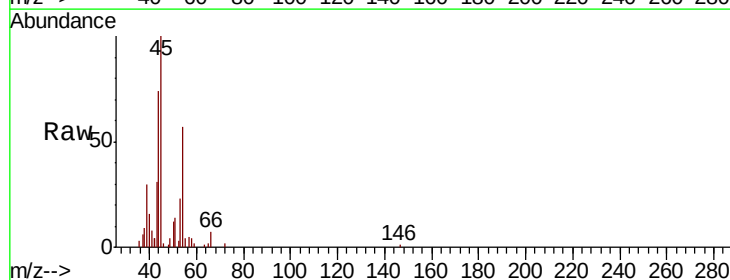
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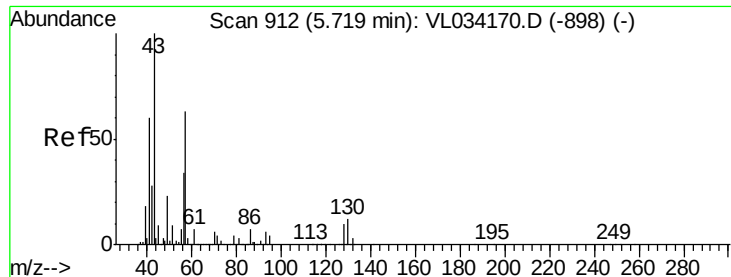
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#19
 Isopropyl Alcohol
 Concen: 0.500 ppbv
 RT: 3.98 min Scan# 371
 Delta R.T. 0.01 min
 Lab File: VL034215.D
 Acq: 2 Oct 2019 17:51

Tgt Ion: 45 Resp: 38167
 Ion Ratio Lower Upper
 45 100
 58 0.0 1.4 2.0#





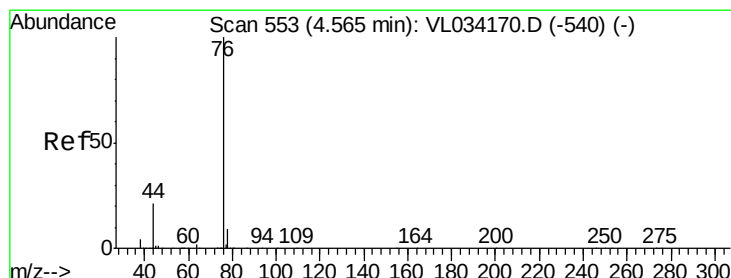
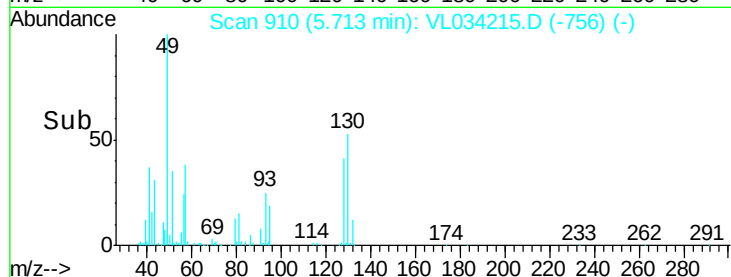
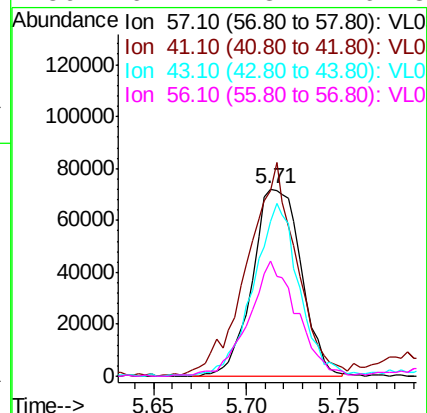
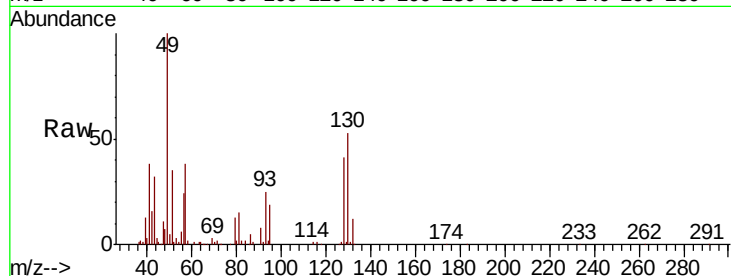
#26
Hexane
Concen: 1.358 ppbv
RT: 5.71 min Scan# 910
Delta R.T. -0.01 min
Lab File: VL034215.D
Acq: 2 Oct 2019 17:51

Instrument :
MSVOA_L
ClientSampled :
SV-3DL

Tot Ion	57	Resp	132521
Ion	Ratio	Lower	Upper
57	100		
41	114.9	78.5	117.7
43	85.8	189.5	284.3#
56	61.4	43.2	64.8

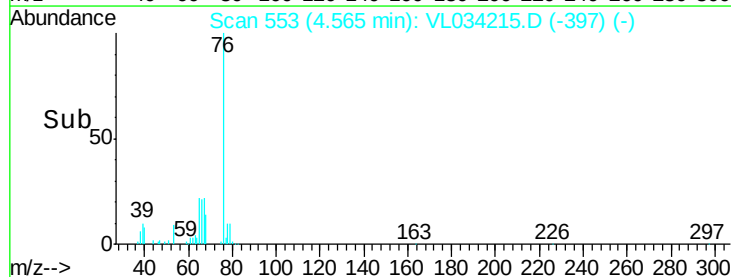
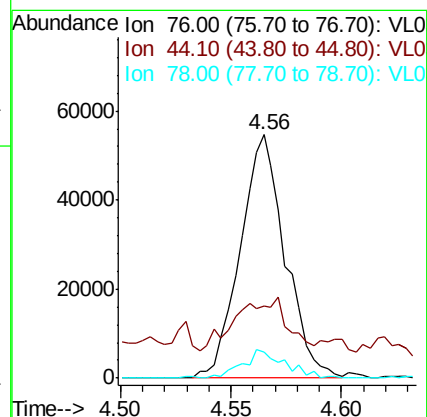
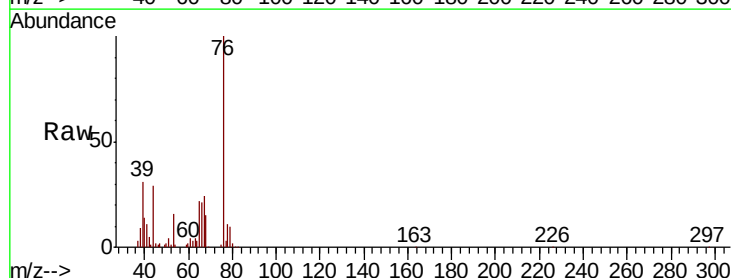
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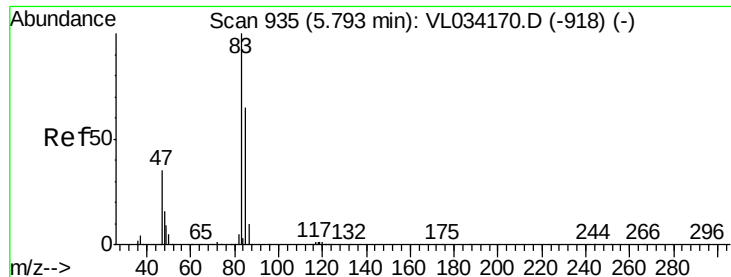
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#27
Carbon Disulfide
Concen: 0.860 ppbv
RT: 4.56 min Scan# 553
Delta R.T. 0.00 min
Lab File: VL034215.D
Acq: 2 Oct 2019 17:51

Tgt Ion	76	Resp	77443
Ion	Ratio	Lower	Upper
76	100		
44	26.1	17.6	26.4
78	11.2	7.6	11.4





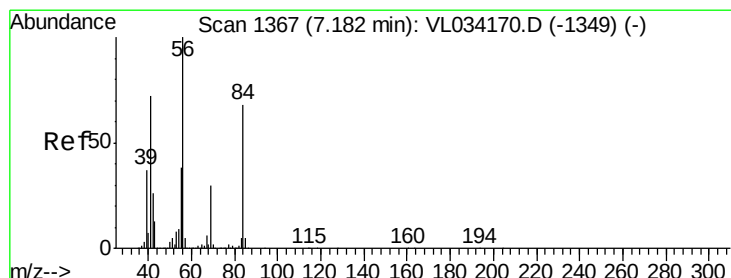
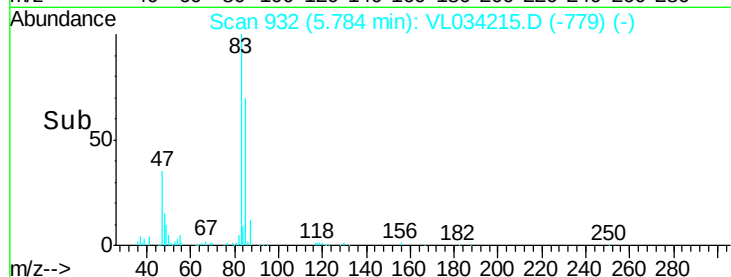
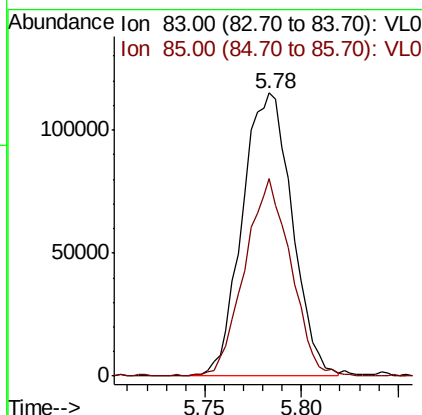
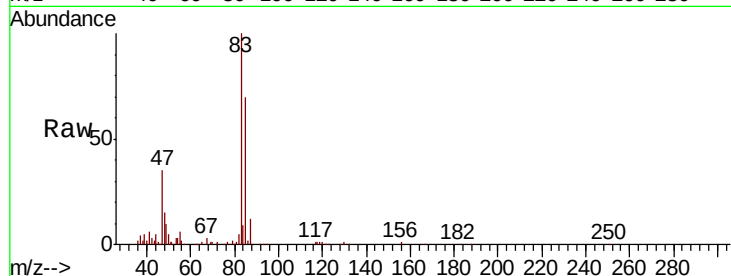
#29
Chloroform
Concen: 1.474 ppbv
RT: 5.78 min Scan# 932
Delta R.T. -0.01 min
Lab File: VL034215.D
Acq: 2 Oct 2019 17:51

Instrument :
MSVOA_L
ClientSampled :
SV-3DL

Tot Ion	83	Resp	205562
Ion Ratio	Lower	Upper	
83	100		
85	69.5	52.3	78.5

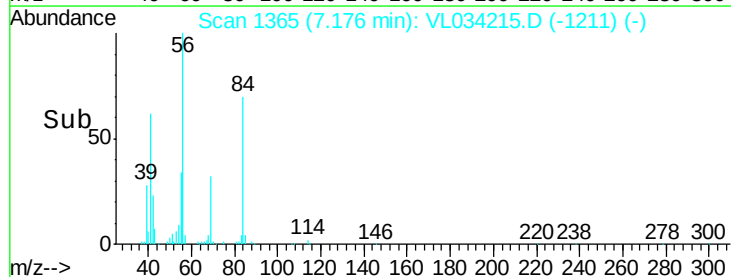
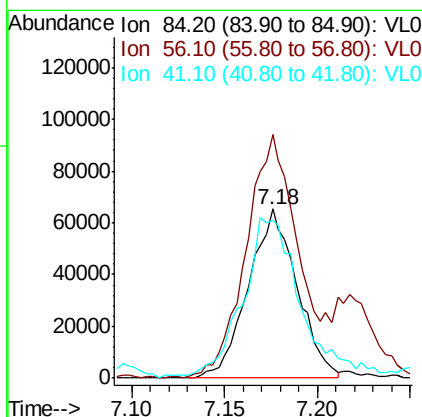
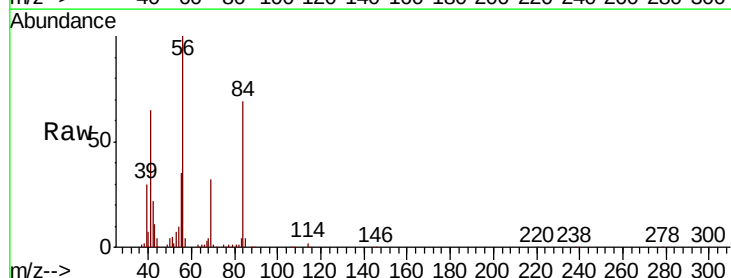
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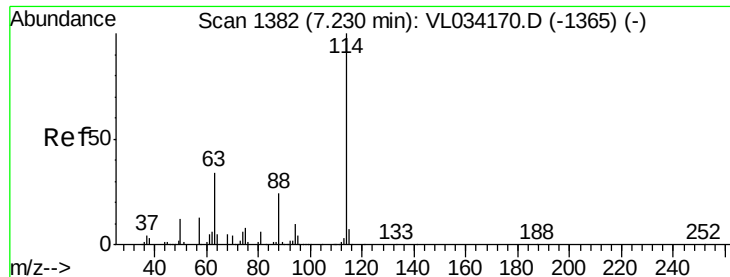
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#30
Cyclohexane
Concen: 1.701 ppbv
RT: 7.18 min Scan# 1365
Delta R.T. -0.01 min
Lab File: VL034215.D
Acq: 2 Oct 2019 17:51

Tgt Ion	84	Resp	119838
Ion Ratio	Lower	Upper	
84	100		
56	193.3	126.2	189.2#
41	110.3	85.8	128.8





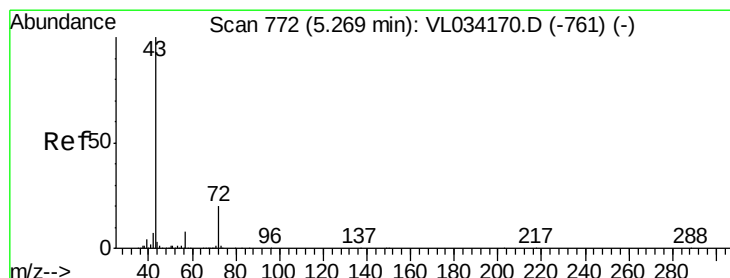
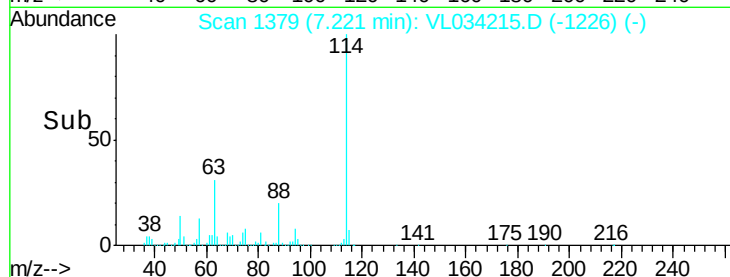
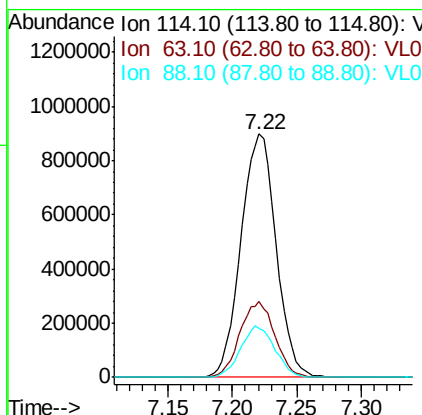
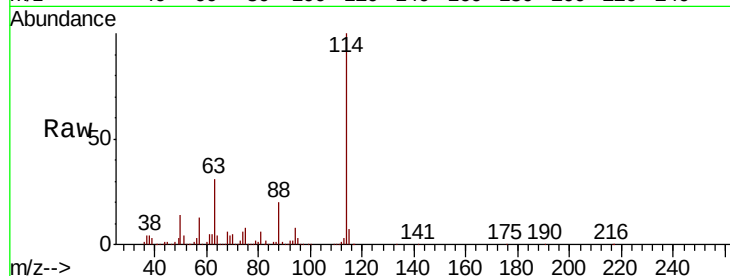
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.22 min Scan# 1379
 Delta R.T. -0.01 min
 Lab File: VL034215.D
 Acq: 2 Oct 2019 17:51

Instrument :
 MSVOA_L
 ClientSampleId :
 SV-3DL

Tot Ion	Ratio	Lower	Upper
114	100		
63	30.9	27.8	41.6
88	20.6	17.1	25.7

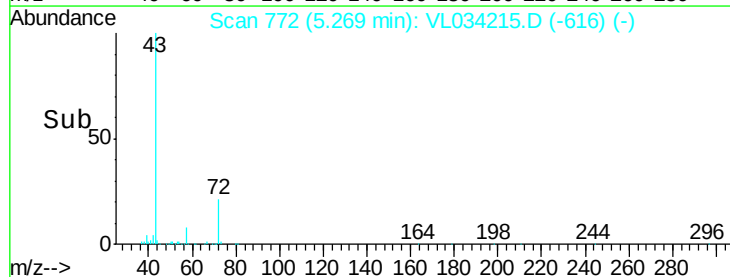
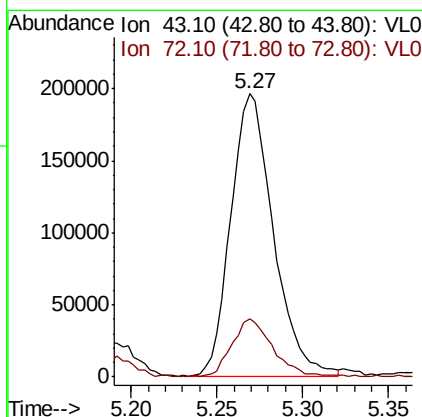
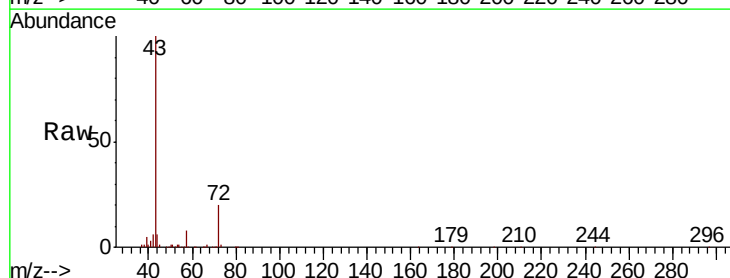
Manual Integrations
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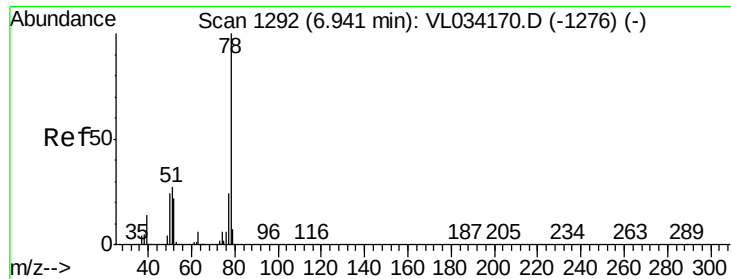
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#34
 2-Butanone
 Concen: 1.930 ppbv
 RT: 5.27 min Scan# 772
 Delta R.T. 0.00 min
 Lab File: VL034215.D
 Acq: 2 Oct 2019 17:51

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.5	15.0	22.6





#36

Benzene

Concen: 0.516 ppbv

RT: 6.93 min Scan# 1290

Delta R.T. -0.01 min

Lab File: VL034215.D

Acq: 2 Oct 2019 17:51

Instrument :

MSVOA_L

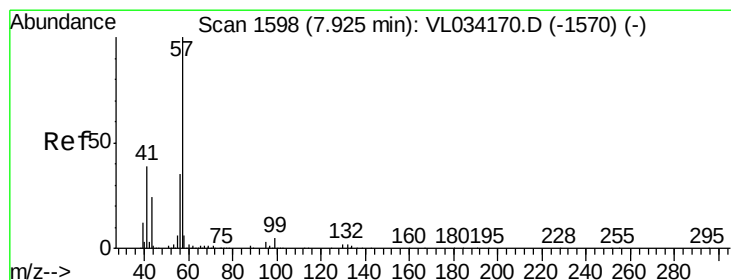
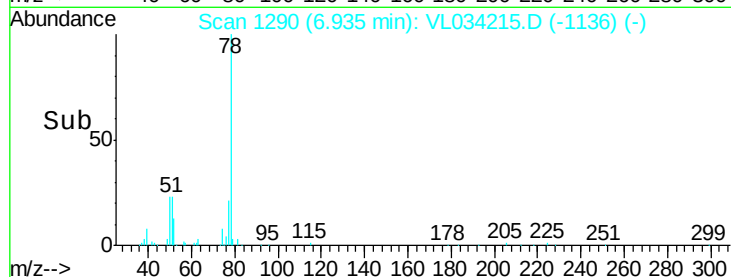
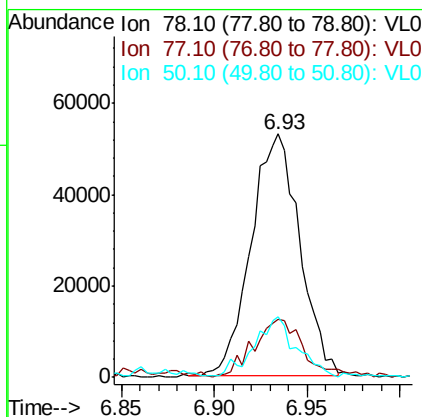
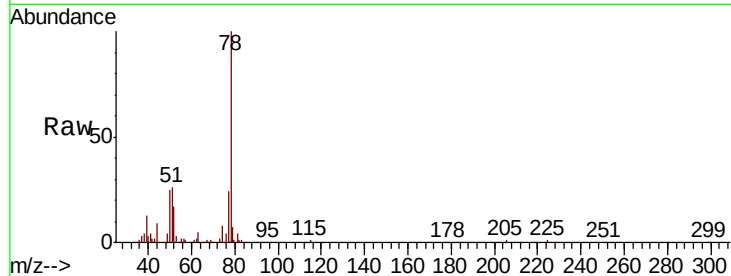
ClientSampleId :

SV-3DL

Tot Ion:	78	Resp:	97183
Ion	Ratio	Lower	Upper
78	100		
77	22.1	19.0	28.4
50	24.6	18.9	28.3

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#44

2,2,4-Trimethylpentane

Concen: 0.702 ppbv m

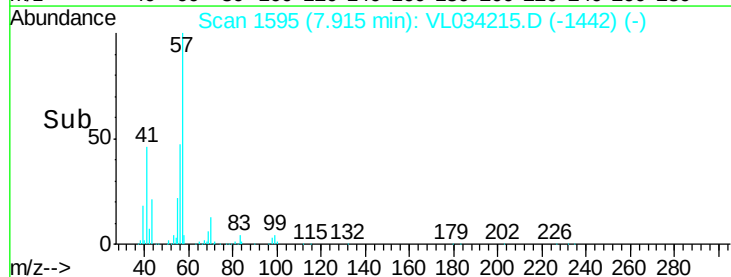
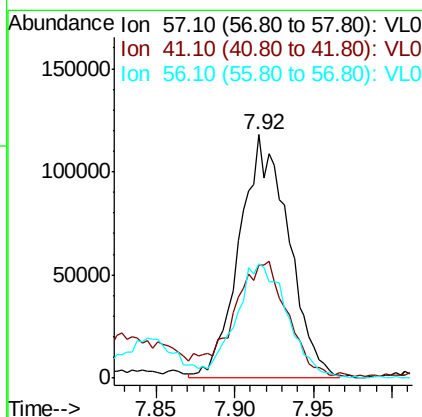
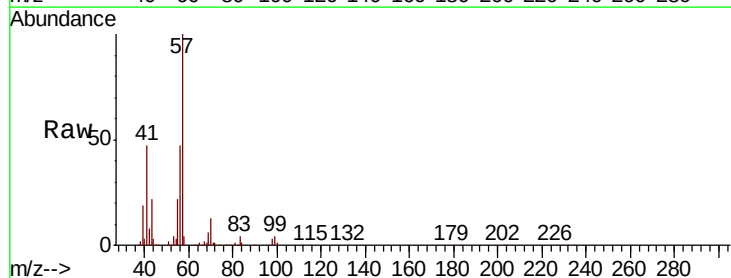
RT: 7.92 min Scan# 1595

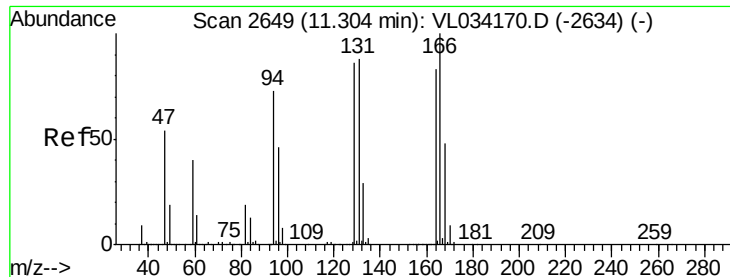
Delta R.T. -0.01 min

Lab File: VL034215.D

Acq: 2 Oct 2019 17:51

Tgt Ion:	57	Resp:	254500
Ion	Ratio	Lower	Upper
57	100		
41	0.0	29.8	44.6#
56	49.2	25.9	38.9#





#52

Tetrachloroethene

Concen: 1.694 ppbv m

RT: 11.29 min Scan# 2644

Delta R.T. -0.02 min

Lab File: VL034215.D

Acq: 2 Oct 2019 17:51

Instrument :

MSVOA_L

ClientSampled :

SV-3DL

Tot Ion:164 Resp: 105458

Ion Ratio Lower Upper

164 100

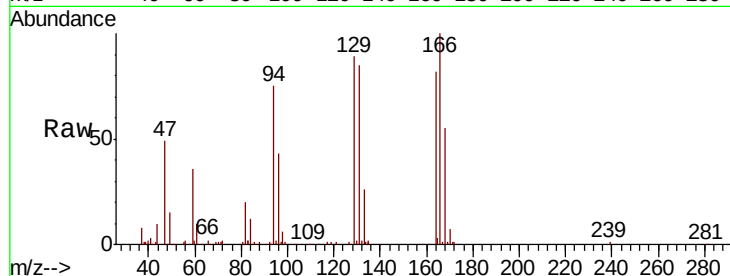
166 122.2 96.7 145.1

129 109.3 82.8 124.2

131 103.6 85.0 127.6

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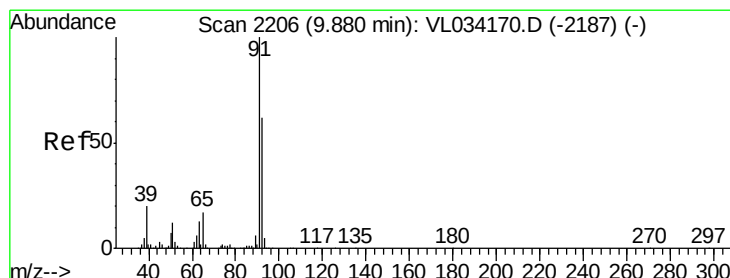
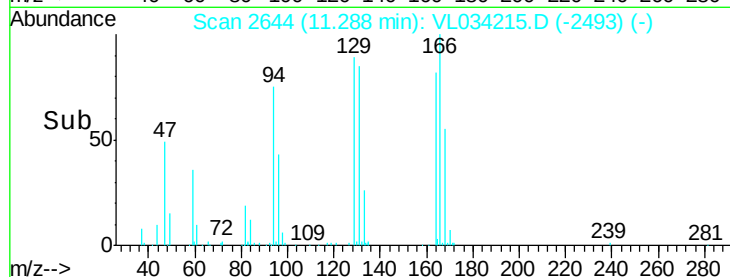
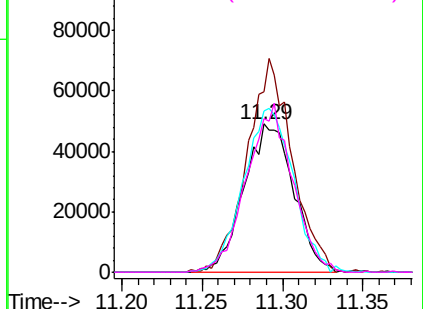


Abundance Ion 163.90 (163.60 to 164.60): V

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: 0.396 ppbv m

RT: 9.87 min Scan# 2203

Delta R.T. -0.01 min

Lab File: VL034215.D

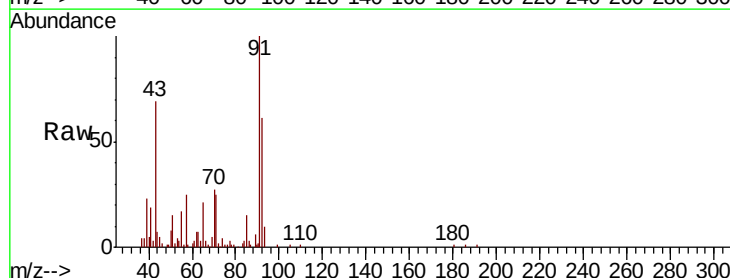
Acq: 2 Oct 2019 17:51

Tgt Ion: 91 Resp: 81602

Ion Ratio Lower Upper

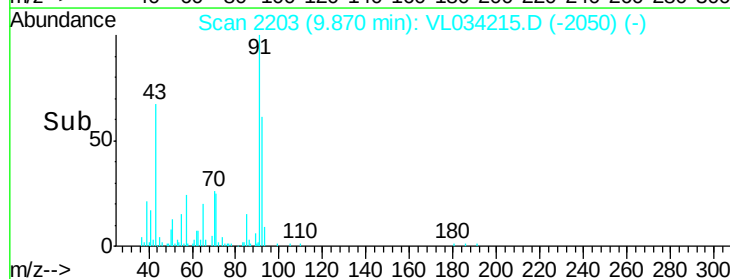
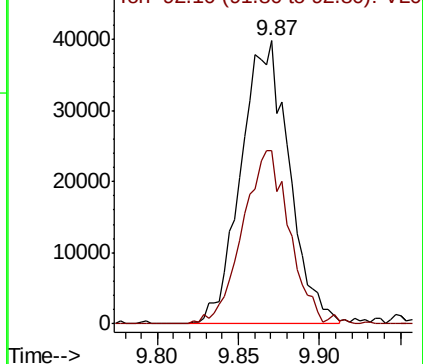
91 100

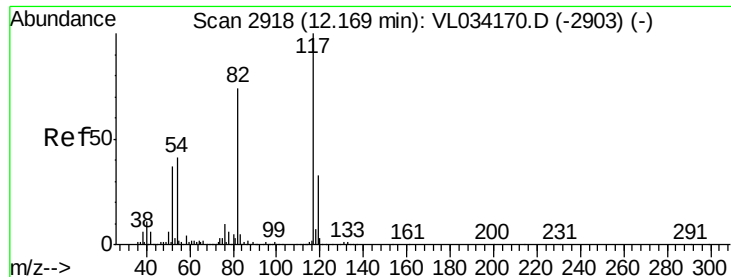
92 59.9 49.0 73.6



Abundance Ion 91.10 (90.80 to 91.80): VL0

Ion 92.10 (91.80 to 92.80): VL0





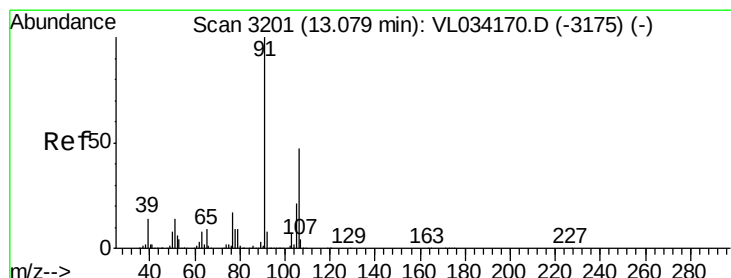
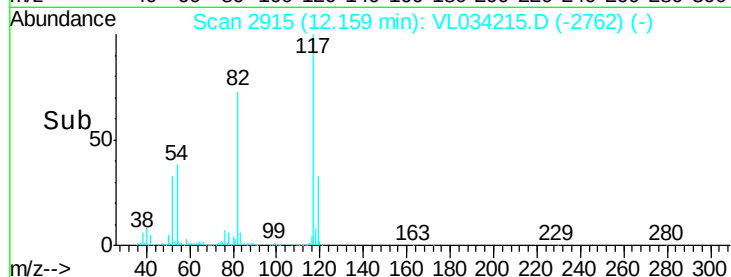
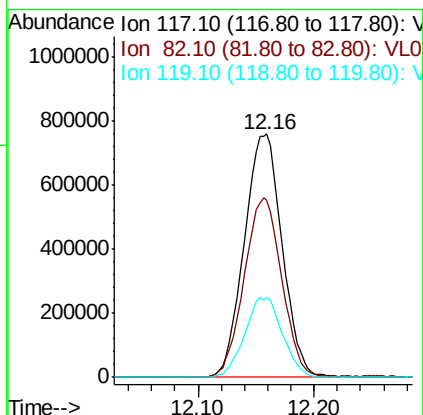
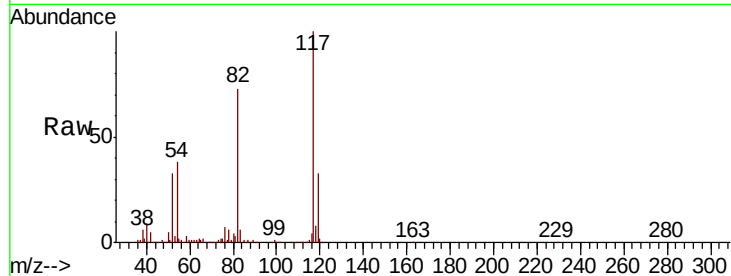
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.16 min Scan# 2915
Delta R.T. -0.01 min
Lab File: VL034215.D
Acq: 2 Oct 2019 17:51

Instrument :
MSVOA_L
ClientSampled :
SV-3DL

Tot Ion	Ratio	Lower	Upper
117	100		
82	73.5	58.2	87.4
119	32.9	23.7	35.5

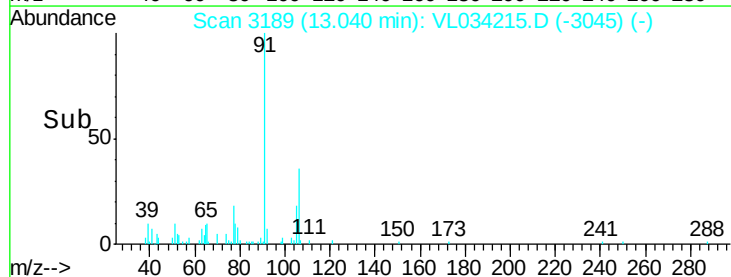
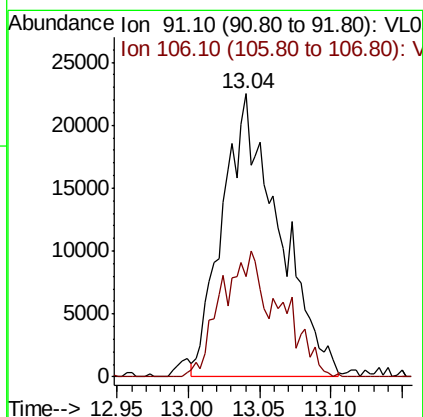
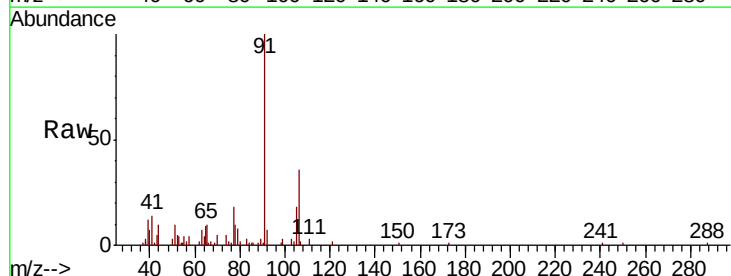
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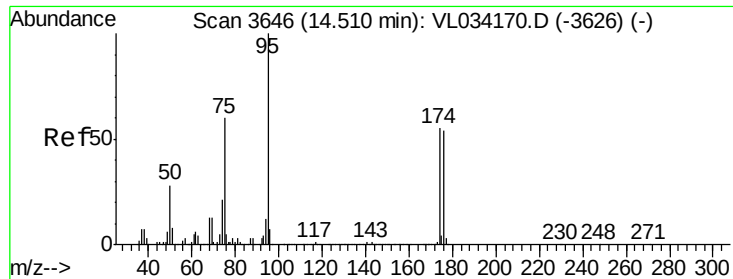
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#59
m/p-Xylene
Concen: 0.267 ppbv m
RT: 13.04 min Scan# 3189
Delta R.T. -0.04 min
Lab File: VL034215.D
Acq: 2 Oct 2019 17:51

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.5	53.3#





#68

1-Bromo-4-Fluorobenzene

Concen: 9.798 ppbv

RT: 14.49 min Scan# 3641

Delta R.T. -0.02 min

Lab File: VL034215.D

Acq: 2 Oct 2019 17:51

Instrument :

MSVOA_L

ClientSampleId :

SV-3DL

Tot Ion: 95 Resp: 1472332

Ion Ratio Lower Upper

95 100

174 60.8 45.1 67.7

175 4.3 3.3 4.9

Manual Integrations

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