

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_L\DATA\VL100819\
 Data File : VL034258.D
 Acq On : 8 Oct 2019 21:11
 Operator : SY/AP
 Sample : K5243-05
 Misc : 400ml/MSVOA_L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Manual Integrations
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 10/11/2019 5:07:21 PM

Quant Time: Oct 09 07:10:16 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
 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	970480	10.00	ppbv	-0.02
33) 1,4-Difluorobenzene	7.21	114	1572956	10.00	ppbv	-0.02
55) Chlorobenzene-d5	12.15	117	1630902	10.00	ppbv	-0.02

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.49	95	1460626	10.31	ppbv	-0.02
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.10%

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	3.03	85	86410	0.603	ppbv	91
4) Chloromethane	3.12	50	29812	0.446	ppbv	100
9) Propene	3.00	41	28320	0.504	ppbv	84
11) Trichlorofluoromethane	3.94	101	29954	0.230	ppbv	93
13) Ethanol	3.60	45	112541	8.278	ppbv	95
15) Acetone	3.84	43	296087	2.276	ppbv	99
19) Isopropyl Alcohol	3.98	45	92861	1.161	ppbv #	93
20) Methylene Chloride	4.34	84	43453	1.159	ppbv	92
26) Hexane	5.71	57	76810	0.751	ppbv #	43
34) 2-Butanone	5.27	43	19368	0.121	ppbv	96
35) Carbon Tetrachloride	7.06	117	8708m	0.067	ppbv	
36) Benzene	6.92	78	19620m	0.113	ppbv	
44) 2,2,4-Trimethylpentane	7.91	57	21942m	0.066	ppbv	
53) Toluene	9.86	91	101135	0.533	ppbv	95

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

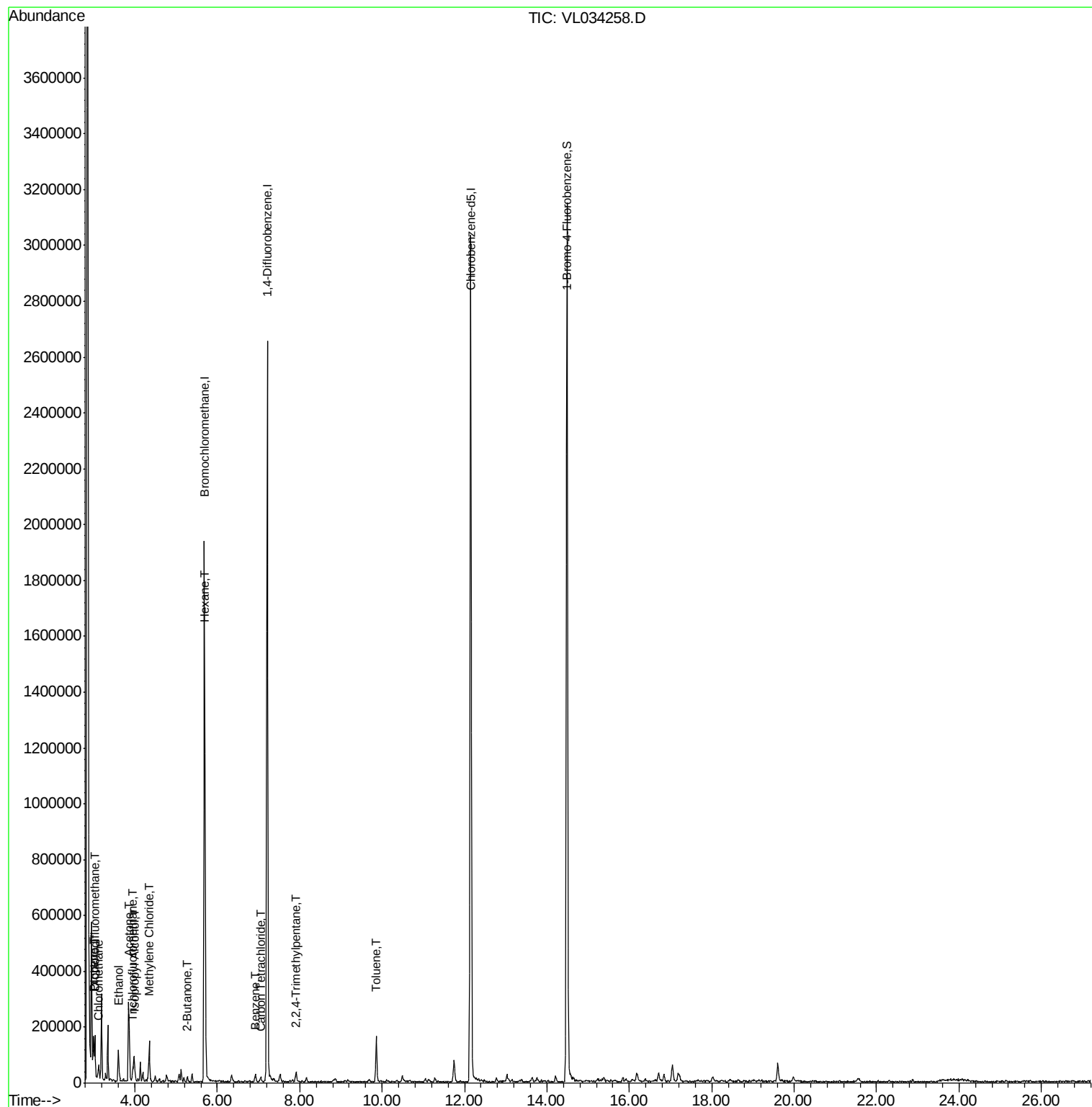
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_L\DATA\VL100819\
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Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

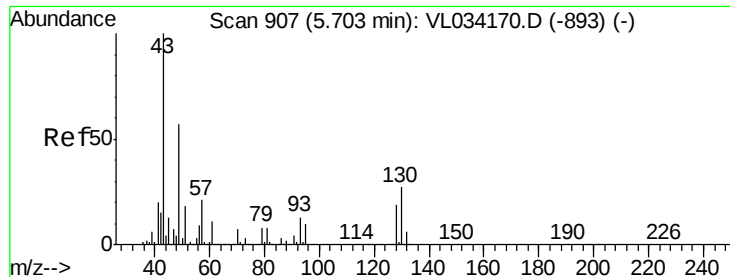
Instrument :
MSVOA_L
ClientSampleId :
OA1

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Quant Time: Oct 09 07:10:16 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: VL034258.D

Acq: 8 Oct 2019 21:11

Instrument :

MSVOA_L

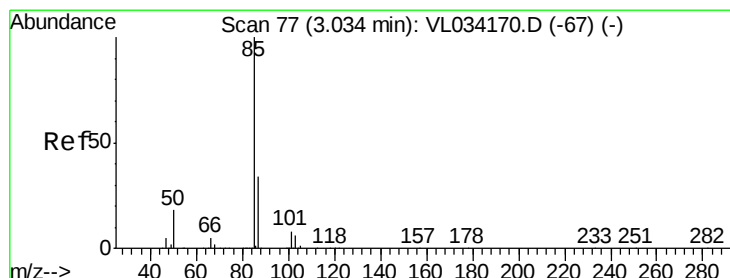
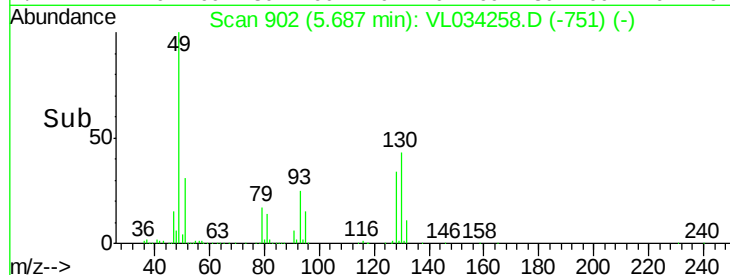
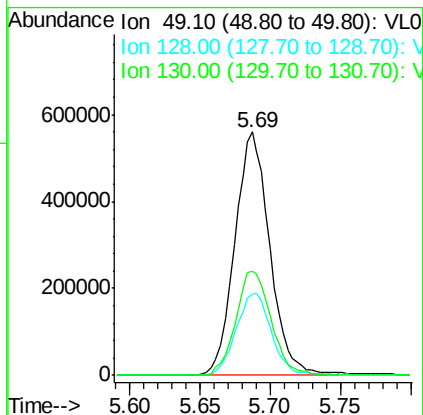
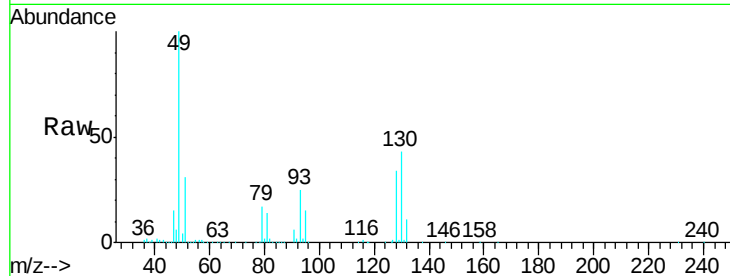
ClientSampled :

QA1

Tgt Ion:	49	Resp:	970480
Ion Ratio	Lower	Upper	
49	100		
128	34.5	17.6	52.9
130	43.9	22.3	66.9

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#2

Dichlorodifluoromethane

Concen: 0.603 ppbv

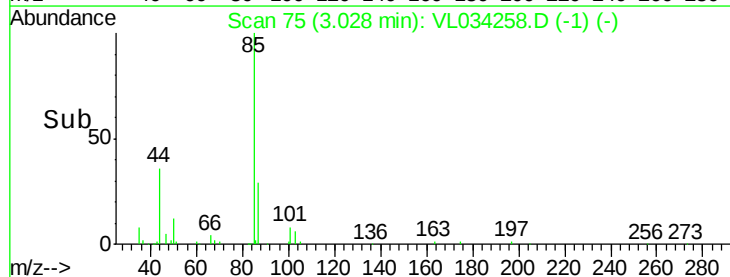
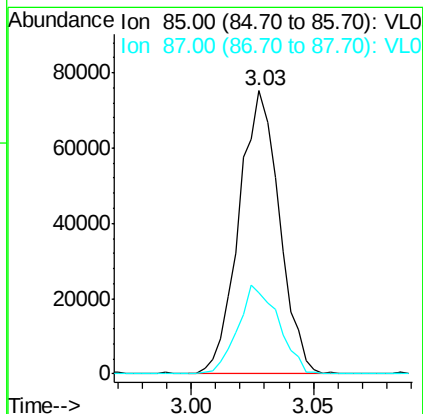
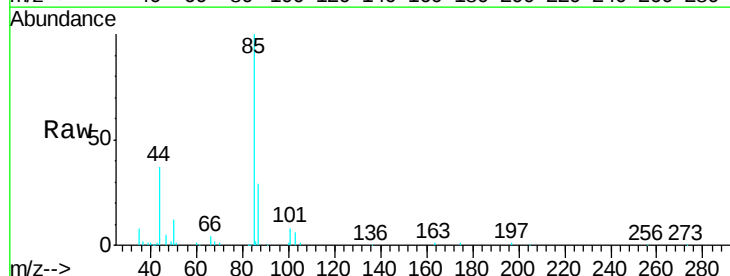
RT: 3.03 min Scan# 75

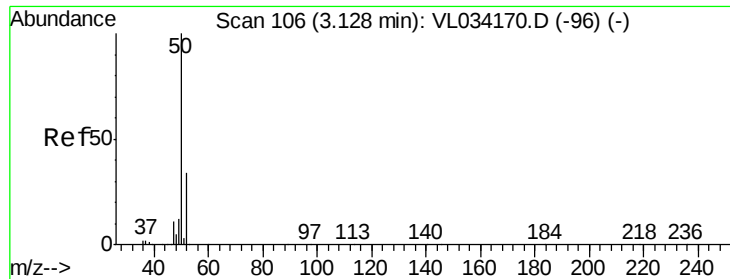
Delta R.T. -0.01 min

Lab File: VL034258.D

Acq: 8 Oct 2019 21:11

Tgt Ion:	85	Resp:	86410
Ion Ratio	Lower	Upper	
85	100		
87	28.8	27.2	40.8





#4

Chloromethane

Concen: 0.446 ppbv

RT: 3.12 min Scan# 104

Delta R.T. -0.01 min

Lab File: VL034258.D

Acq: 8 Oct 2019 21:11

Instrument :

MSVOA_L

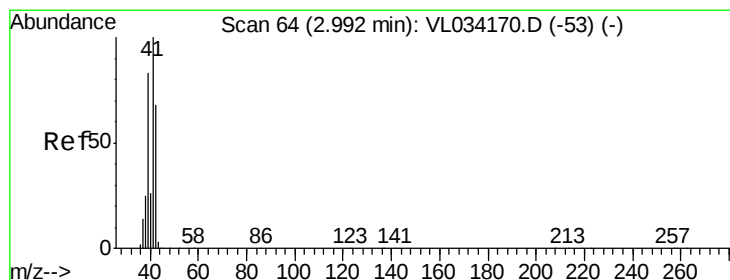
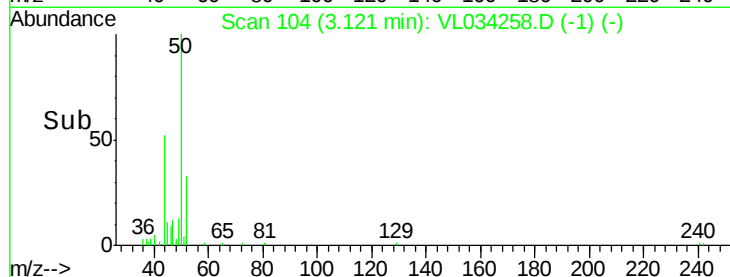
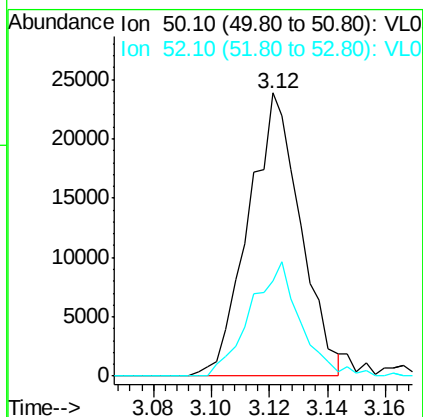
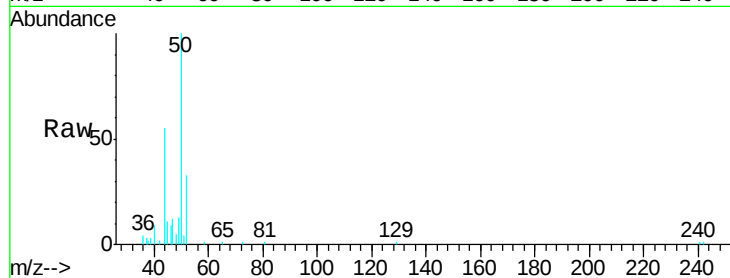
ClientSampleId :

QA1

Tgt Ion: 50 Resp: 29812
 Ion Ratio Lower Upper
 50 100
 52 33.9 27.1 40.7

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#9

Propene

Concen: 0.504 ppbv

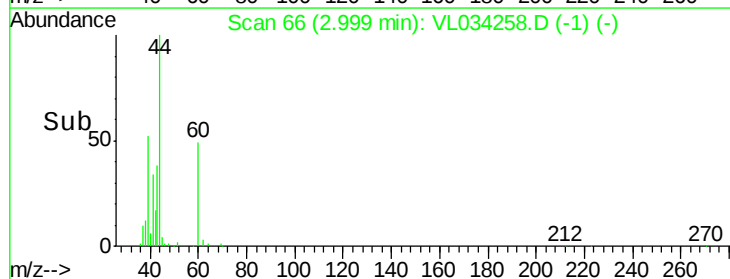
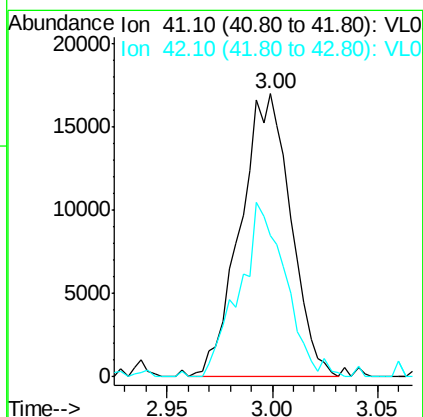
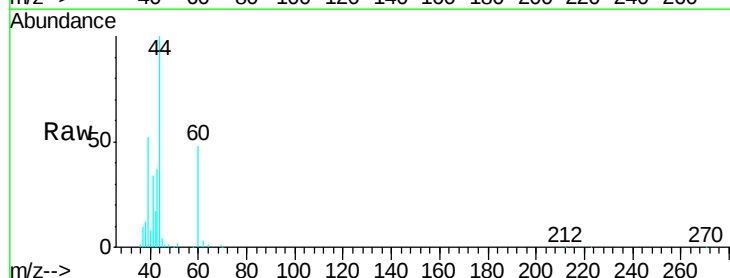
RT: 3.00 min Scan# 66

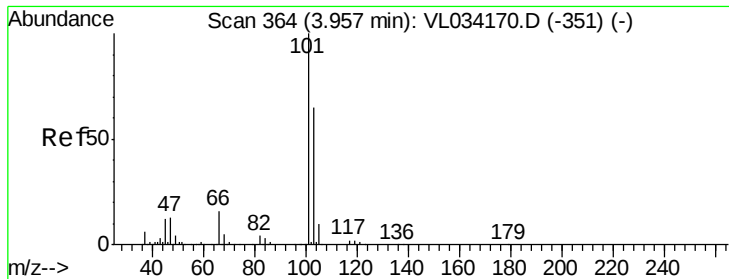
Delta R.T. 0.01 min

Lab File: VL034258.D

Acq: 8 Oct 2019 21:11

Tgt Ion: 41 Resp: 28320
 Ion Ratio Lower Upper
 41 100
 42 56.7 55.8 83.6





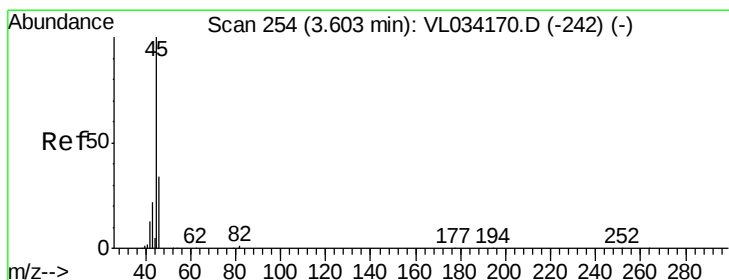
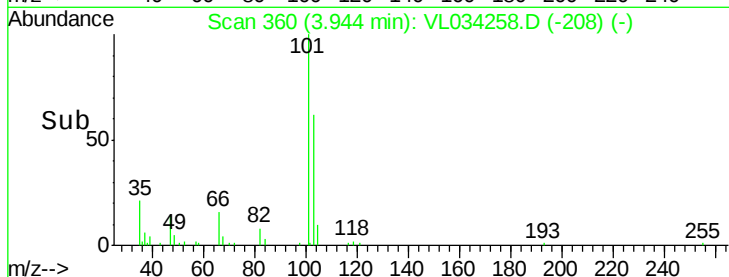
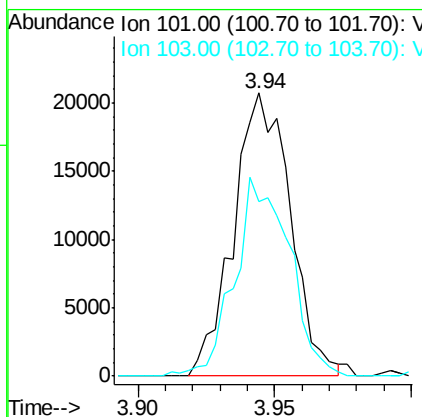
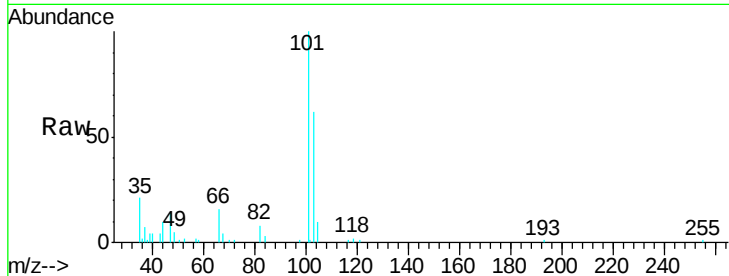
#11
 Trichlorofluoromethane
 Concen: 0.230 ppbv
 RT: 3.94 min Scan# 360
 Delta R.T. -0.01 min
 Lab File: VL034258.D
 Acq: 8 Oct 2019 21:11

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion:101 Resp: 29954
 Ion Ratio Lower Upper
 101 100
 103 59.9 52.1 78.1

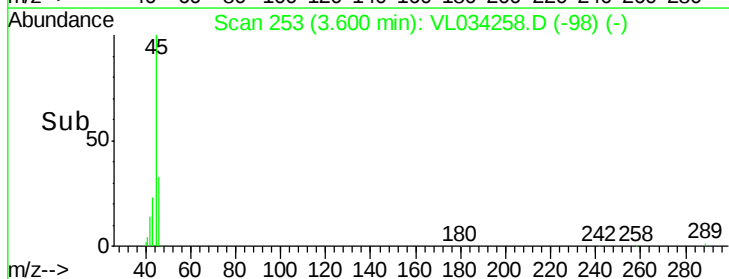
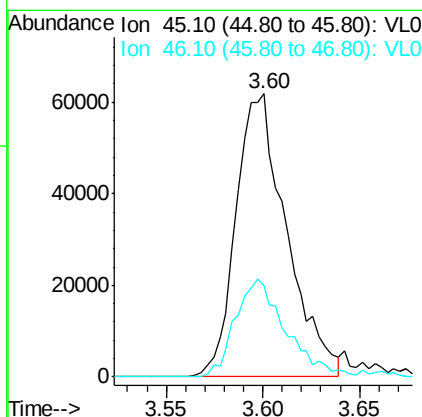
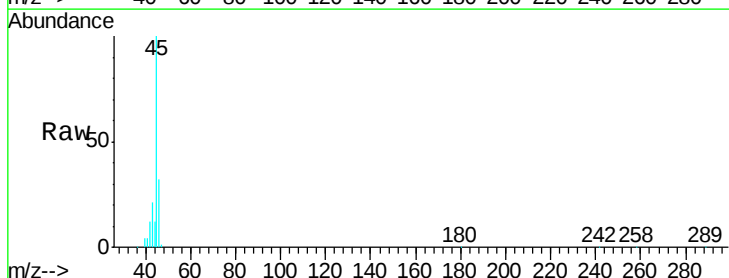
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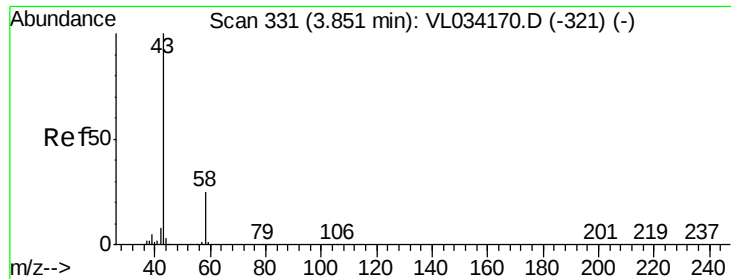
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#13
 Ethanol
 Concen: 8.278 ppbv
 RT: 3.60 min Scan# 253
 Delta R.T. -0.00 min
 Lab File: VL034258.D
 Acq: 8 Oct 2019 21:11

Tgt Ion: 45 Resp: 112541
 Ion Ratio Lower Upper
 45 100
 46 35.6 15.5 61.9





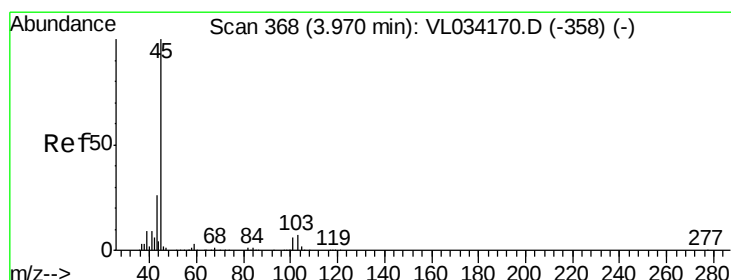
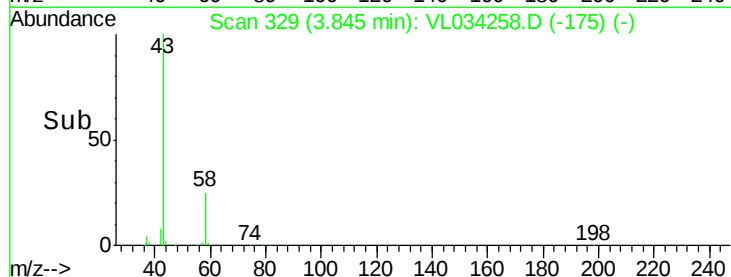
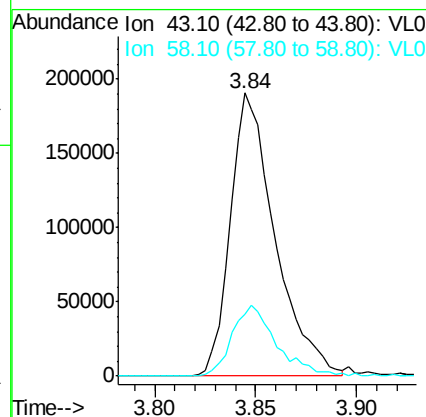
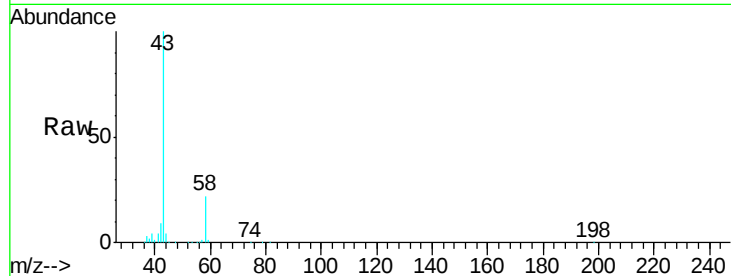
#15
Acetone
Concen: 2.276 ppbv
RT: 3.84 min Scan# 329
Delta R.T. -0.01 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

Instrument :
MSVOA_L
ClientSampled :
QA1

Tgt Ion: 43 Resp: 296087
Ion Ratio Lower Upper
43 100
58 25.1 20.5 30.7

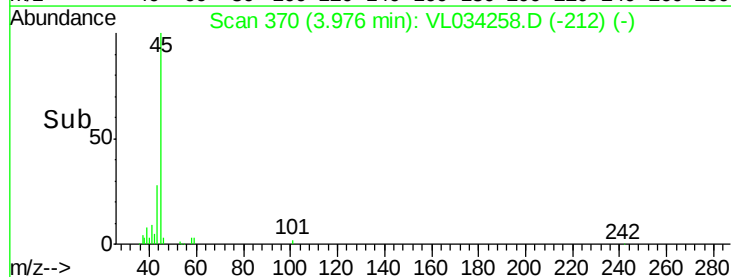
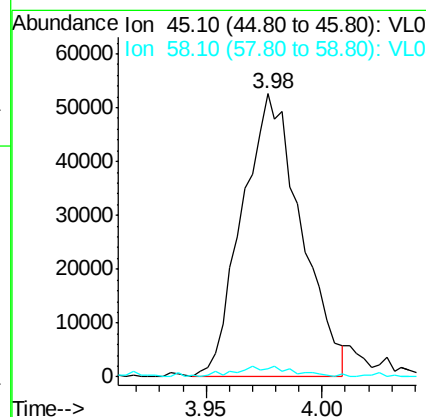
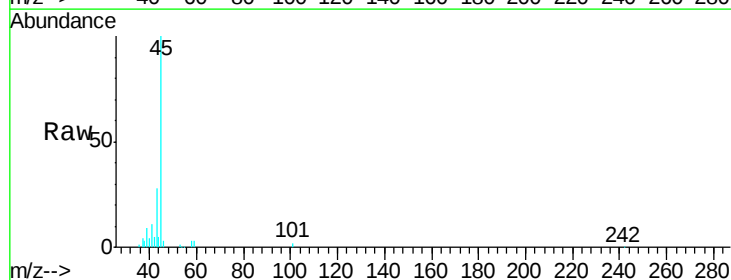
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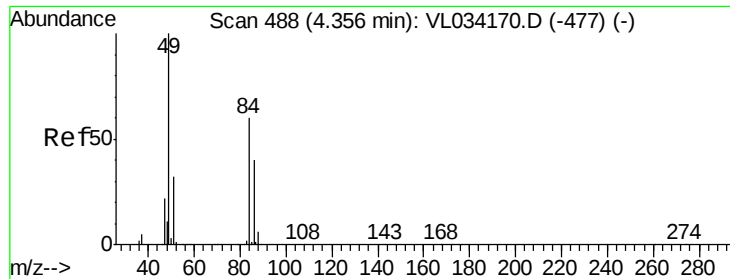
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#19
Isopropyl Alcohol
Concen: 1.161 ppbv
RT: 3.98 min Scan# 370
Delta R.T. 0.01 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

Tgt Ion: 45 Resp: 92861
Ion Ratio Lower Upper
45 100
58 4.1 1.4 2.0#





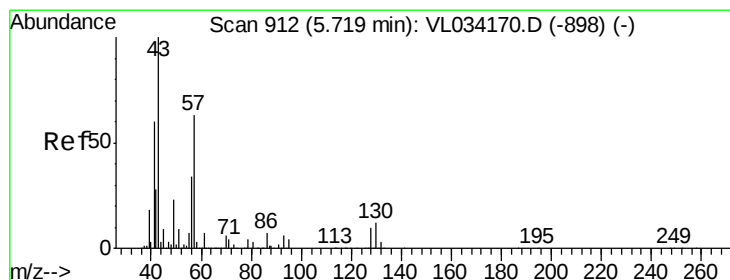
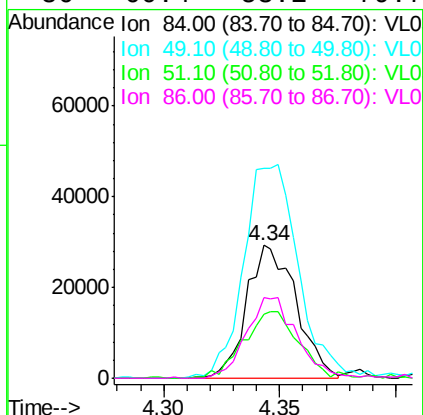
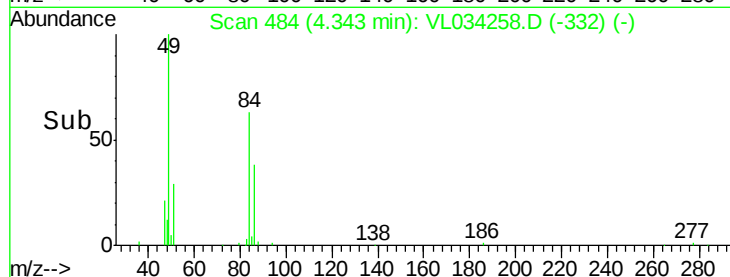
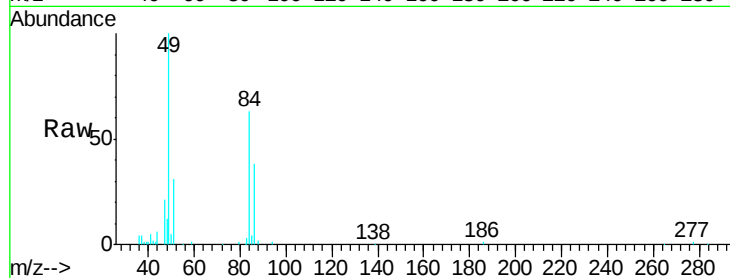
#20
Methylene Chloride
Concen: 1.159 ppbv
RT: 4.34 min Scan# 484
Delta R.T. -0.01 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

Instrument :
MSVOA_L
ClientSampled :
QA1

Tgt Ion	Ratio	Lower	Upper
84	100		
49	156.8	133.8	200.8
51	48.7	43.6	65.4
86	60.4	53.1	79.7

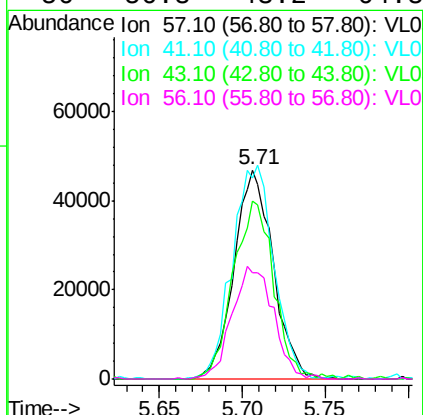
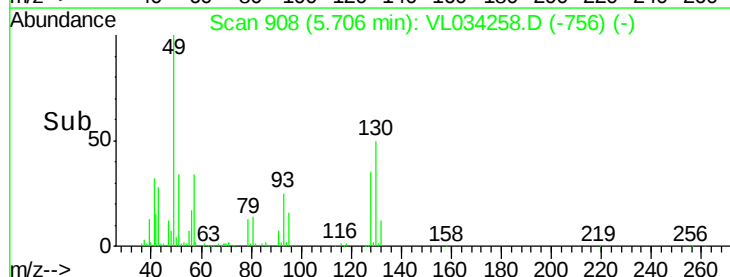
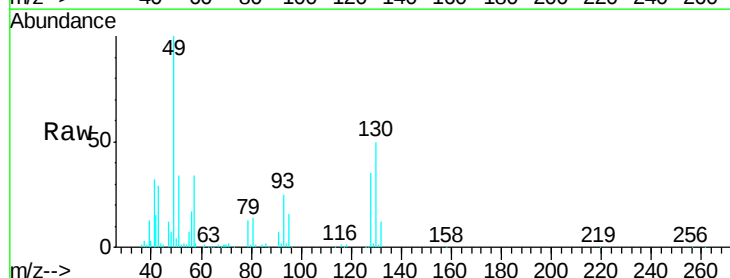
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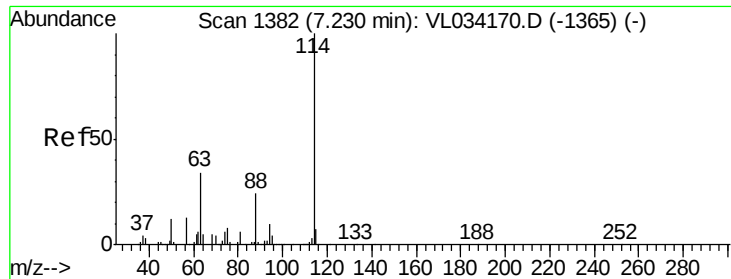
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#26
Hexane
Concen: 0.751 ppbv
RT: 5.71 min Scan# 908
Delta R.T. -0.01 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

Tgt Ion	Ratio	Lower	Upper
57	100		
41	109.5	78.5	117.7
43	88.9	189.5	284.3
56	56.8	43.2	64.8





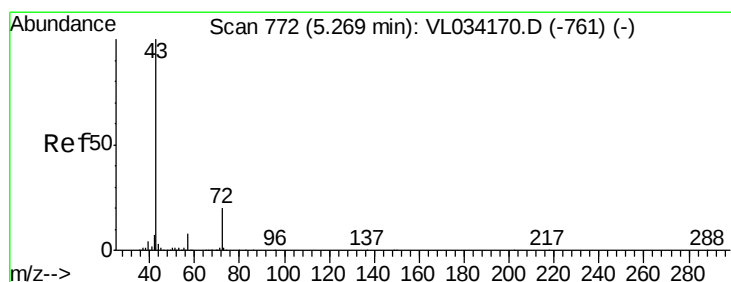
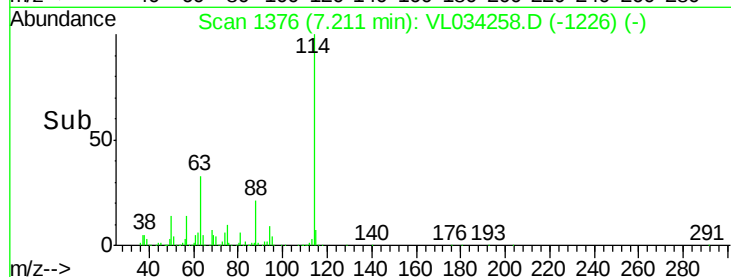
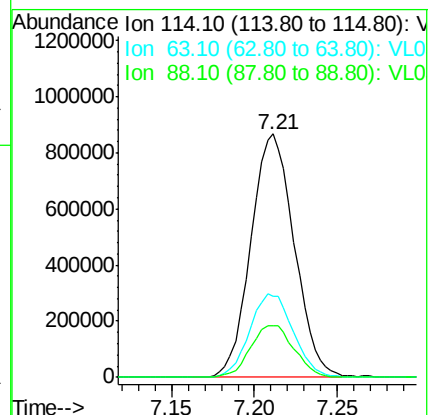
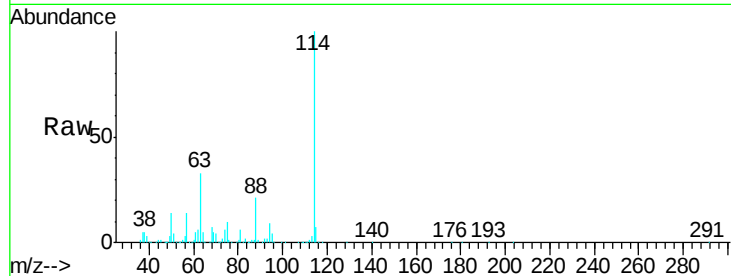
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 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.21 min Scan# 1376
 Delta R.T. -0.02 min
 Lab File: VL034258.D
 Acq: 8 Oct 2019 21:11

Instrument :
 MSVOA_L
 ClientSampleId :
 OA1

Tgt Ion	Ratio	Lower	Upper
114	100		
63	34.6	27.8	41.6
88	21.6	17.1	25.7

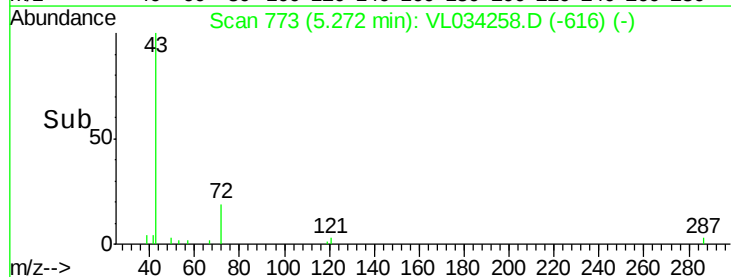
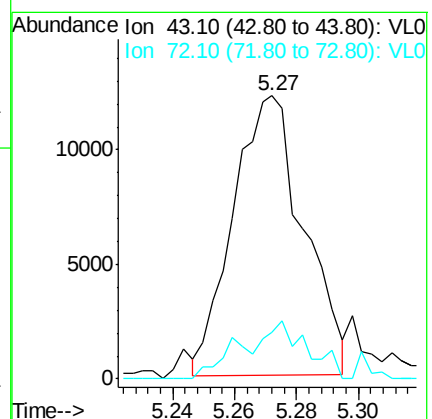
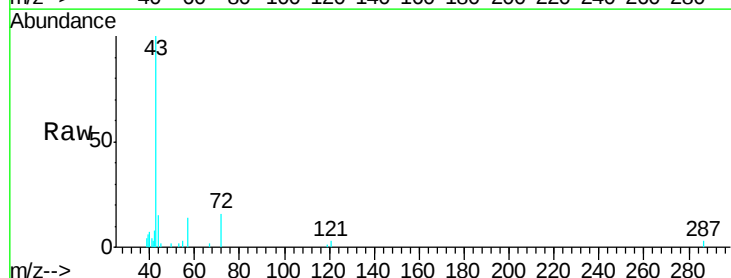
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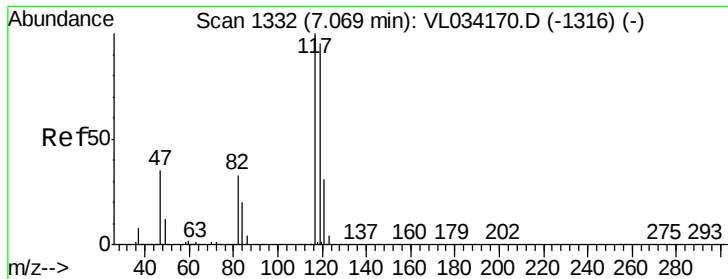
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#34
 2-Butanone
 Concen: 0.121 ppbv
 RT: 5.27 min Scan# 773
 Delta R.T. 0.00 min
 Lab File: VL034258.D
 Acq: 8 Oct 2019 21:11

Tgt Ion	Ratio	Lower	Upper
43	100		
72	20.6	15.0	22.6





#35

Carbon Tetrachloride

Concen: 0.067 ppbv m

RT: 7.06 min Scan# 1328

Delta R.T. -0.01 min

Lab File: VL034258.D

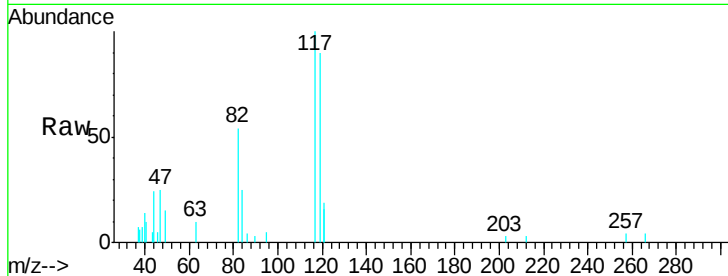
Acq: 8 Oct 2019 21:11

Instrument :

MSVOA_L

ClientSampled :

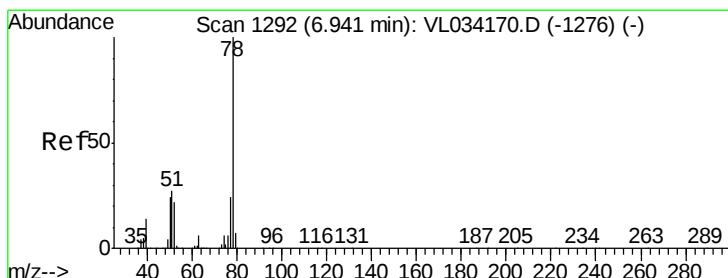
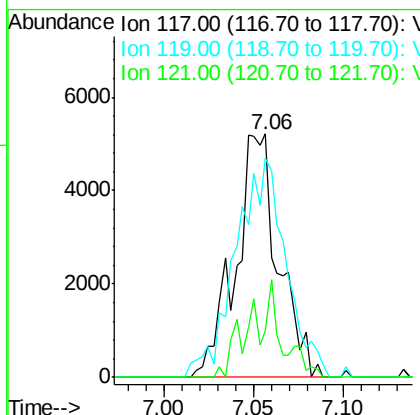
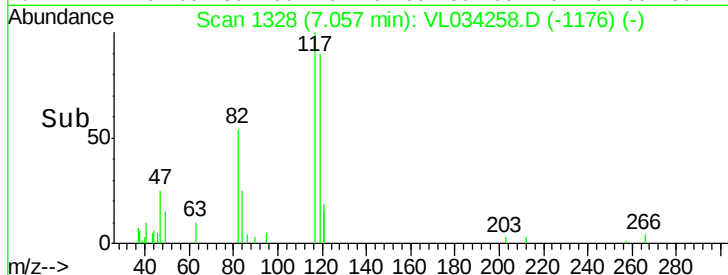
QA1



Tgt Ion:	117	Resp:	8708
Ion Ratio	Lower	Upper	
117	100		
119	89.9	75.8	113.6
121	19.1	25.0	37.6#

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#36

Benzene

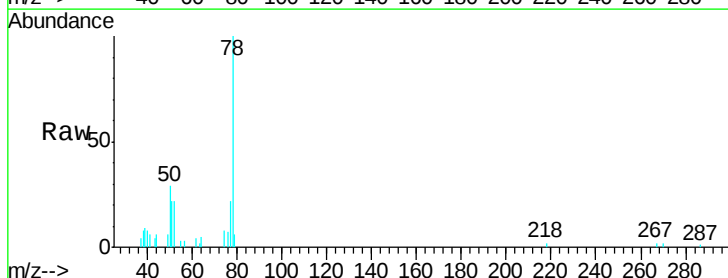
Concen: 0.113 ppbv m

RT: 6.92 min Scan# 1287

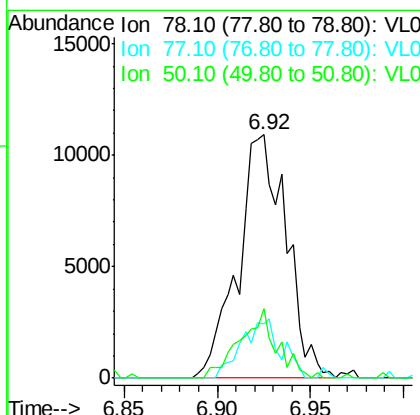
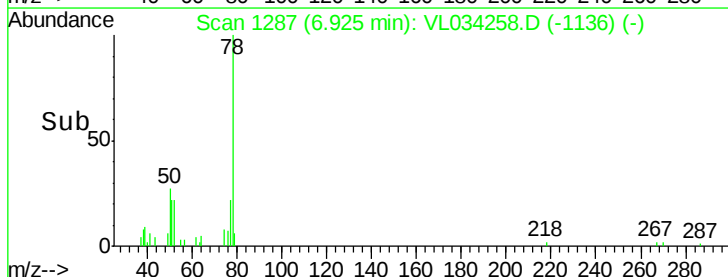
Delta R.T. -0.02 min

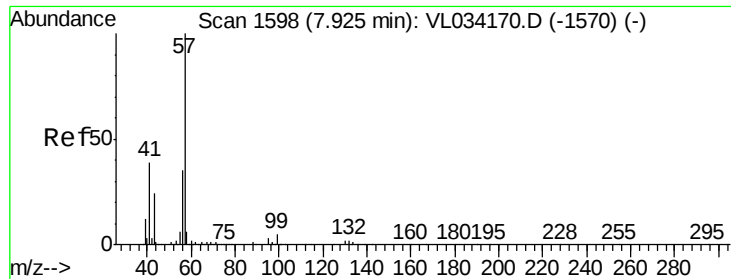
Lab File: VL034258.D

Acq: 8 Oct 2019 21:11



Tgt Ion:	78	Resp:	19620
Ion Ratio	Lower	Upper	
78	100		
77	22.4	19.0	28.4
50	28.5	18.9	28.3#





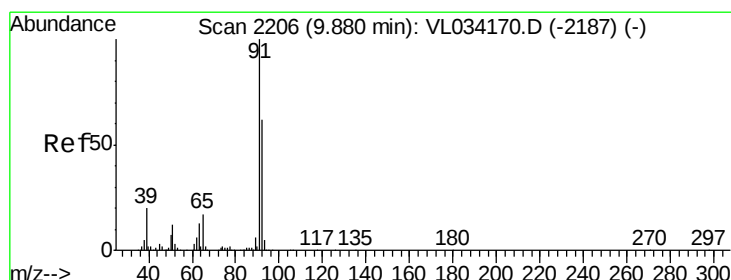
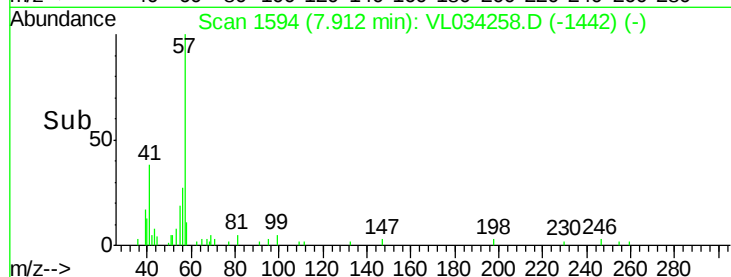
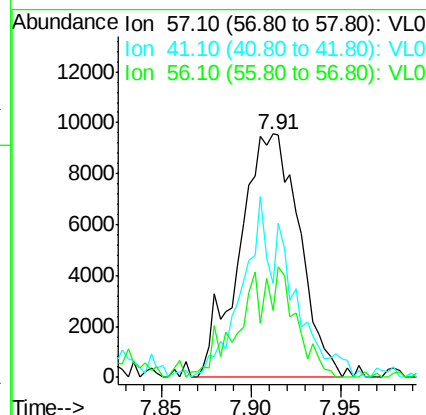
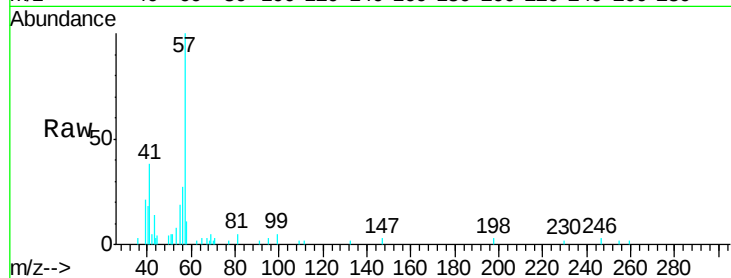
#44
 2,2,4-Trimethylpentane
 Concen: 0.066 ppbv m
 RT: 7.91 min Scan# 1594
 Delta R.T. -0.01 min
 Lab File: VL034258.D
 Acq: 8 Oct 2019 21:11

Instrument :
 MSVOA_L
 ClientSampled :
 OA1

Tgt Ion	Ratio	Lower	Upper
57	100		
41	60.2	29.8	44.6#
56	0.0	25.9	38.9#

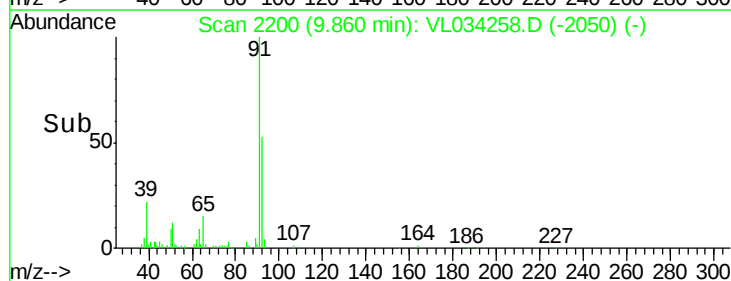
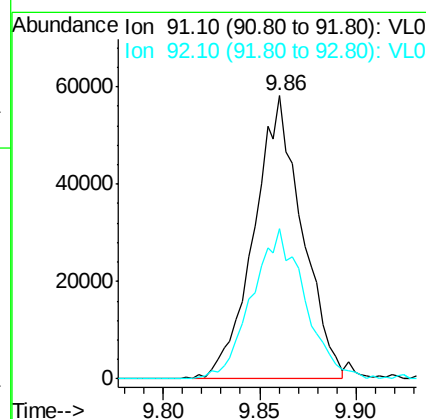
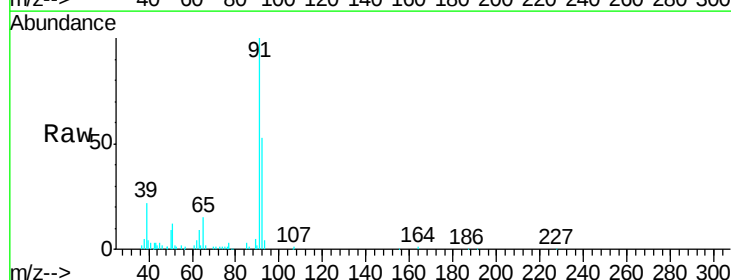
Manual Integrations
 APPROVED

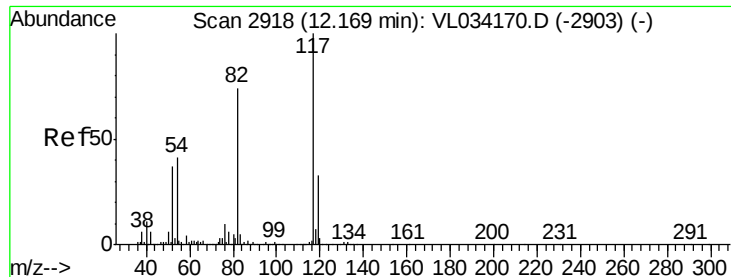
MMDadoda
 10/11/2019 5:07:21 PM



#53
 Toluene
 Concen: 0.533 ppbv
 RT: 9.86 min Scan# 2200
 Delta R.T. -0.02 min
 Lab File: VL034258.D
 Acq: 8 Oct 2019 21:11

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.7	49.0	73.6





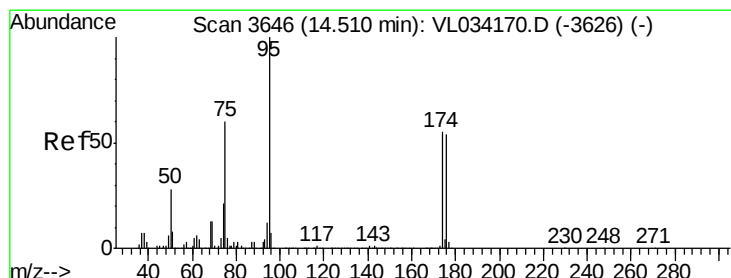
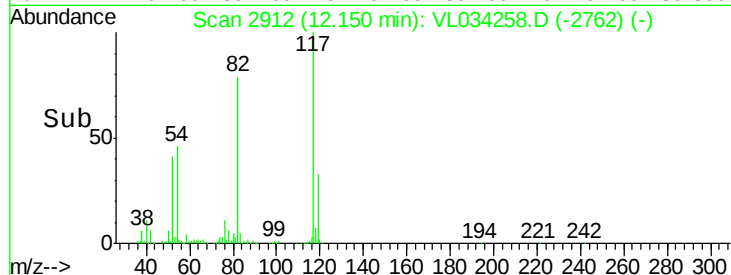
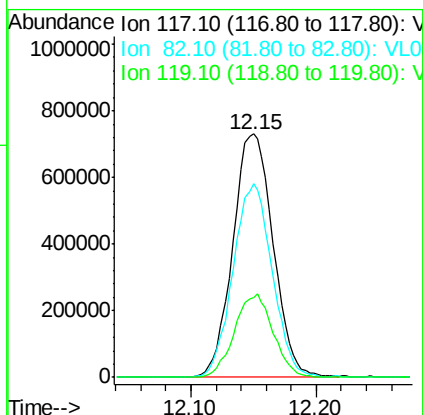
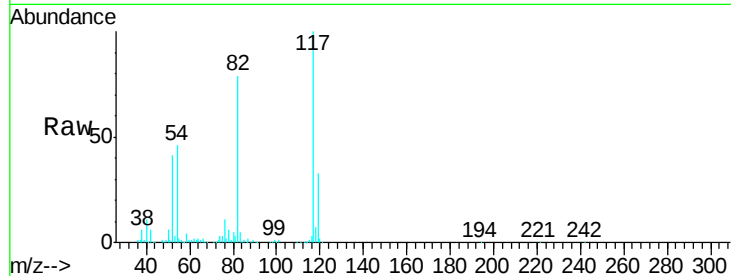
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.15 min Scan# 2912
Delta R.T. -0.02 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

Instrument :
MSVOA_L
ClientSampled :
QA1

Tgt Ion: 117 Resp: 1630902
Ion Ratio Lower Upper
117 100
82 77.9 58.2 87.4
119 33.2 23.7 35.5

Manual Integrations
APPROVED

MMDadoda
10/11/2019 5:07:21 PM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.307 ppbv
RT: 14.49 min Scan# 3639
Delta R.T. -0.02 min
Lab File: VL034258.D
Acq: 8 Oct 2019 21:11

Tgt Ion: 95 Resp: 1460626
Ion Ratio Lower Upper
95 100
174 53.0 45.1 67.7
175 3.8 3.3 4.9

