

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032919\
 Data File : VL033508.D
 Acq On : 29 Mar 2019 18:52
 Operator : SY/AP
 Sample : K2042-19DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 AAS-1-ROOF-TOPDL

Manual Integrations
 APPROVED

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 4/1/2019 4:03:15 AM

Quant Time: Mar 30 02:56:16 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 2
 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	742310	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1796493	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1800401	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1426248	10.10	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	101.00%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	8835	0.082	ppbv #	83
3) Chlorodifluoromethane	3.02	51	6522	0.076	ppbv #	81
4) Chloromethane	3.17	50	1751	0.039	ppbv #	79
9) Propene	3.05	41	4421	0.123	ppbv	90
13) Ethanol	3.66	45	21134m	2.276	ppbv	
15) Acetone	3.92	43	33871	0.379	ppbv	98
20) Methylene Chloride	4.41	84	14107m	0.372	ppbv	

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

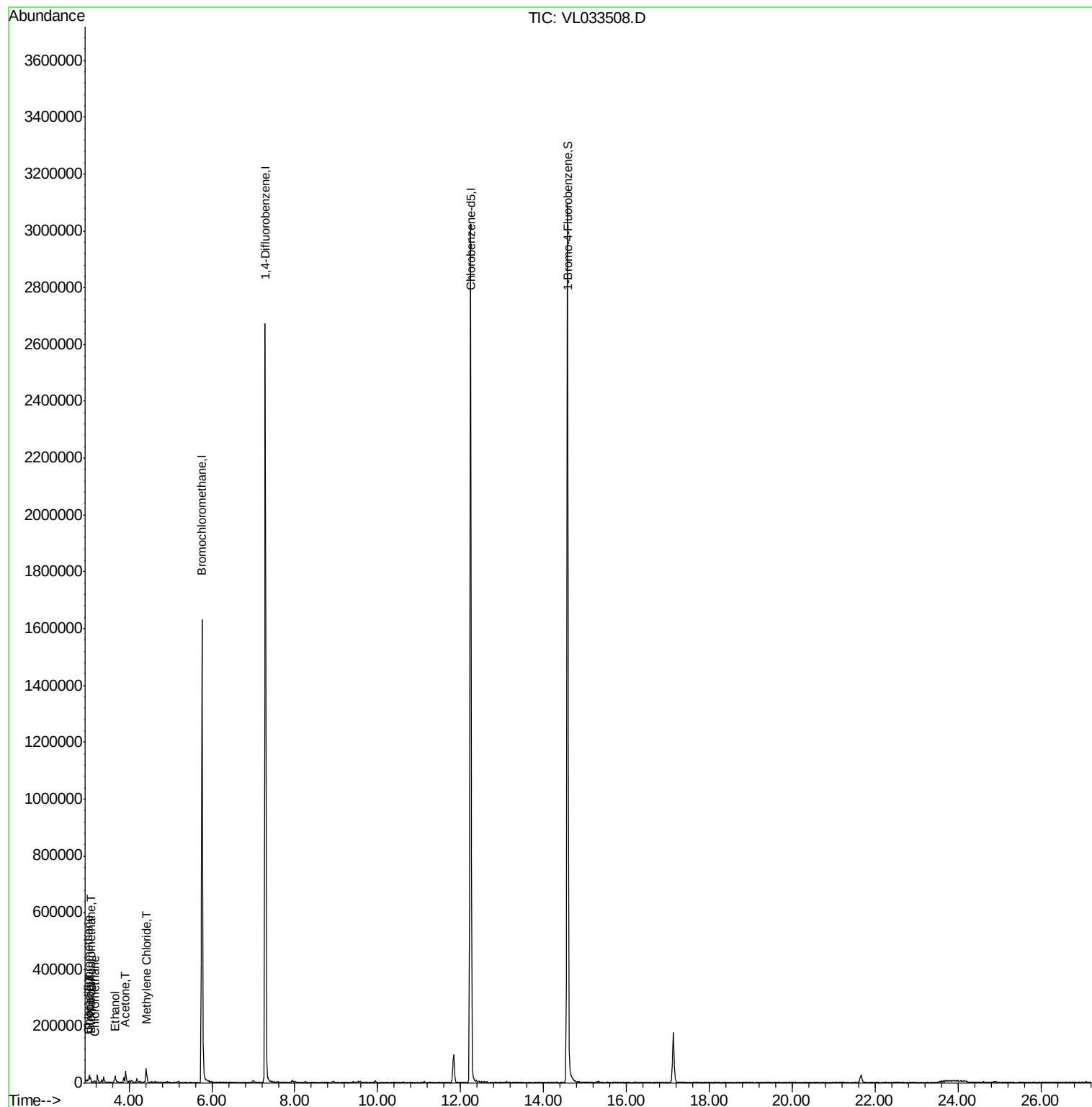
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032919\
Data File : VL033508.D
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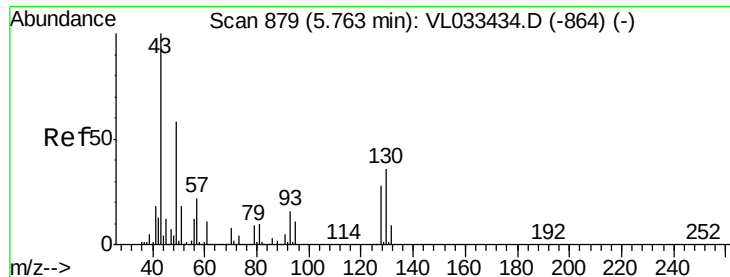
Instrument :
MSVOA_L
ClientSampleId :
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QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.76 min Scan# 877

Delta R.T. -0.01 min

Lab File: VL033508.D

Acq: 29 Mar 2019 18:52

Instrument :

MSVOA_L

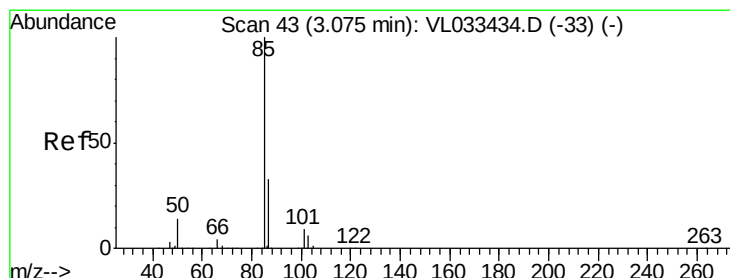
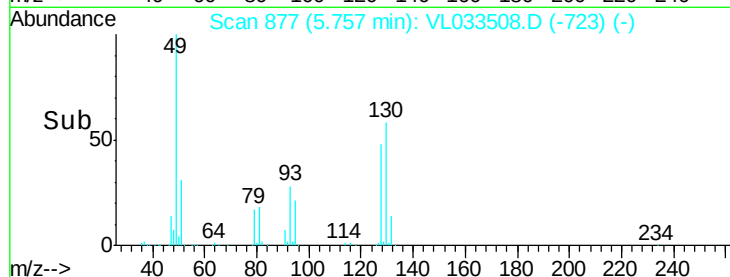
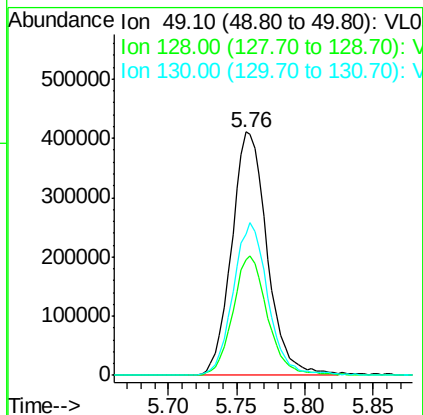
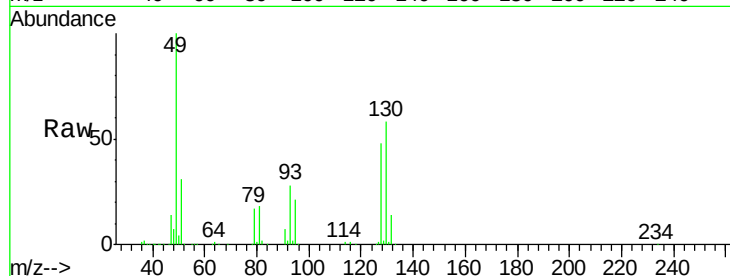
ClientSampleId :

AAS-1-ROOF-TOPDL

Tot Ion:	49	Resp:	742310
Ion	Ratio	Lower	Upper
49	100		
128	47.9	24.0	72.0
130	62.0	31.2	93.6

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#2

Dichlorodifluoromethane

Concen: 0.082 ppbv

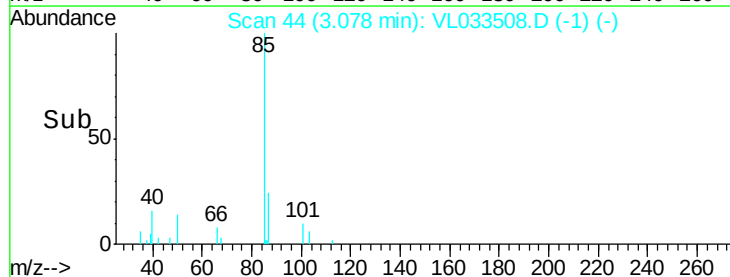
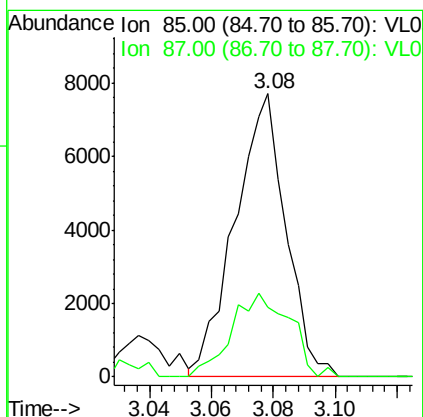
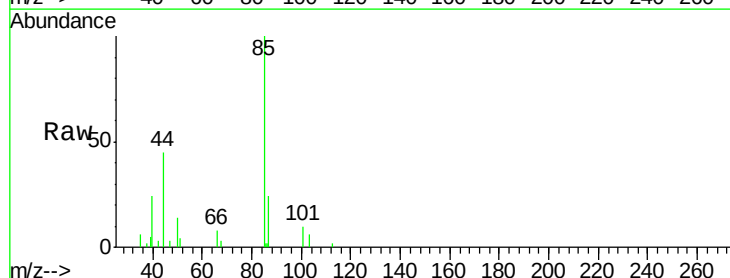
RT: 3.08 min Scan# 44

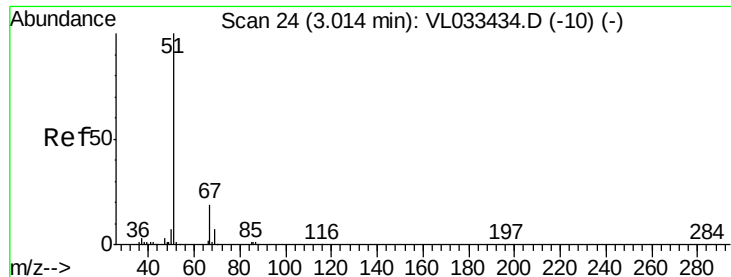
Delta R.T. 0.00 min

Lab File: VL033508.D

Acq: 29 Mar 2019 18:52

Tgt Ion:	85	Resp:	8835
Ion	Ratio	Lower	Upper
85	100		
87	23.9	26.7	40.1#





#3

Chlorodifluoromethane

Concen: 0.076 ppbv

RT: 3.02 min Scan# 25

Delta R.T. 0.00 min

Lab File: VL033508.D

Acq: 29 Mar 2019 18:52

Instrument :

MSVOA_L

ClientSampleId :

AAS-1-ROOF-TOPDL

Tot Ion: 51 Resp: 6522

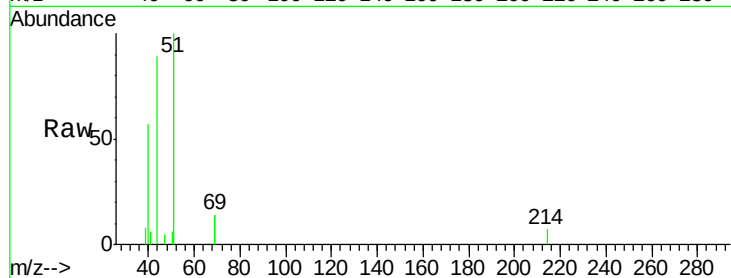
Ion Ratio Lower Upper

51 100

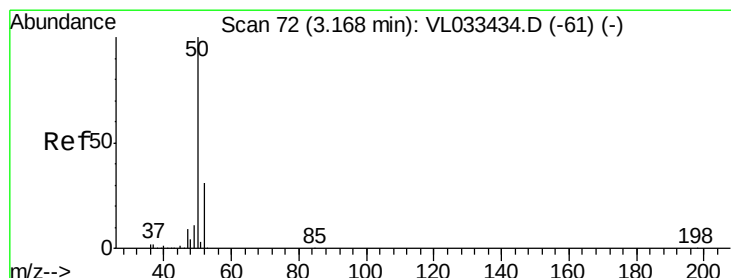
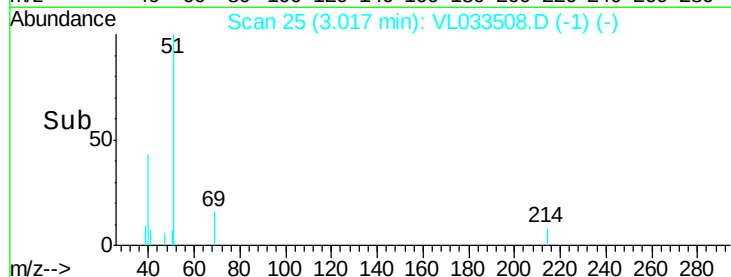
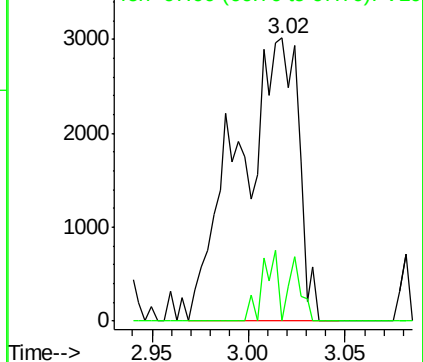
67 10.9 15.7 23.5#

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Abundance Ion 51.00 (50.70 to 51.70): VL0
Ion 67.00 (66.70 to 67.70): VL0



#4

Chloromethane

Concen: 0.039 ppbv

RT: 3.17 min Scan# 72

Delta R.T. 0.00 min

Lab File: VL033508.D

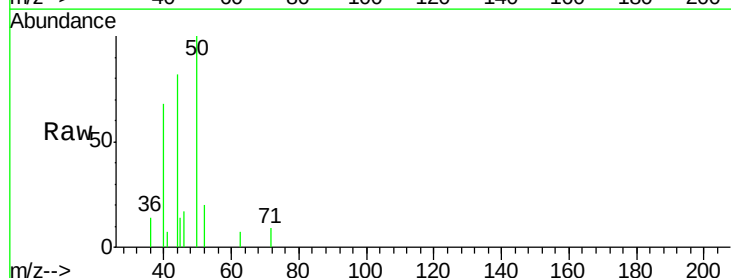
Acq: 29 Mar 2019 18:52

Tgt Ion: 50 Resp: 1751

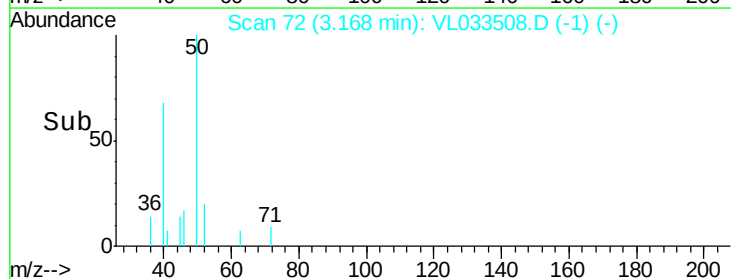
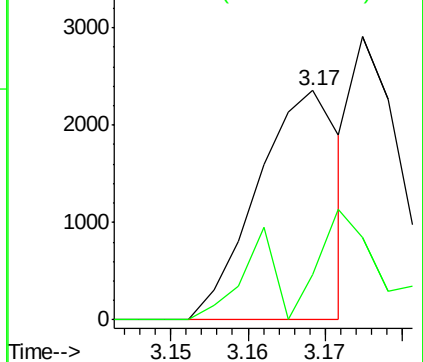
Ion Ratio Lower Upper

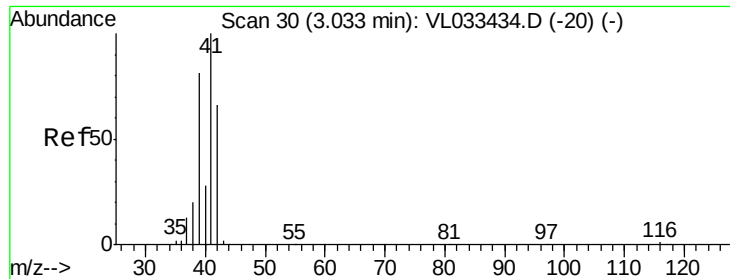
50 100

52 19.8 25.0 37.6#



Abundance Ion 50.10 (49.80 to 50.80): VL0
Ion 52.10 (51.80 to 52.80): VL0





#9

Propene

Concen: 0.123 ppbv

RT: 3.05 min Scan# 35

Delta R.T. 0.02 min

Lab File: VL033508.D

Acq: 29 Mar 2019 18:52

Instrument :

MSVOA_L

ClientSampleId :

AAS-1-ROOF-TOPDL

Tot Ion: 41 Resp: 4421

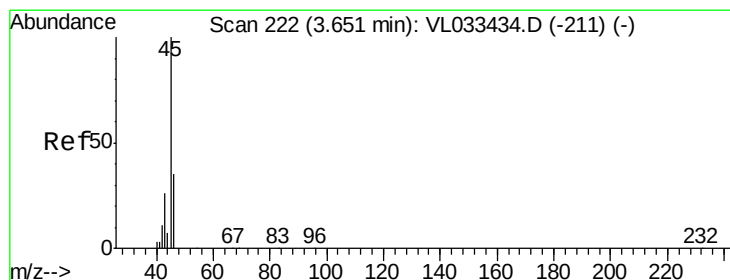
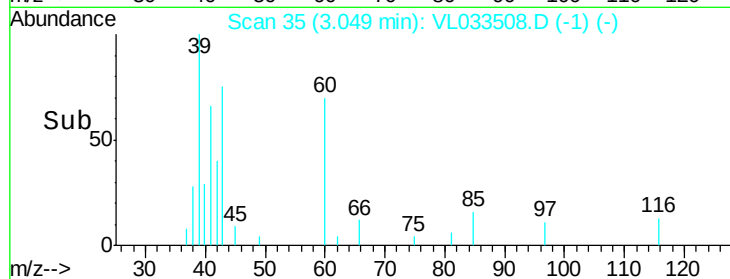
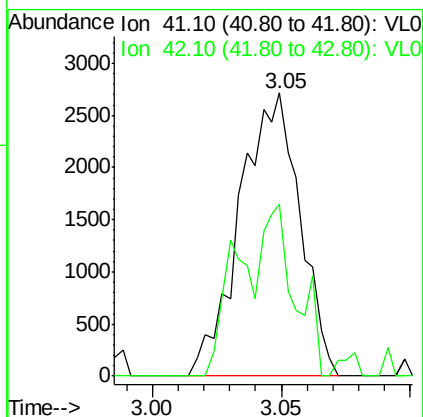
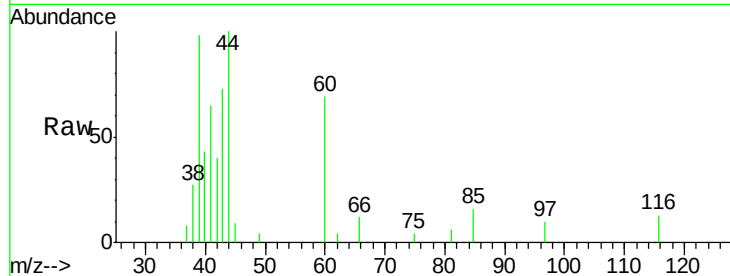
Ion Ratio Lower Upper

41 100

42 59.4 53.9 80.9

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#13

Ethanol

Concen: 2.276 ppbv m

RT: 3.66 min Scan# 226

Delta R.T. 0.01 min

Lab File: VL033508.D

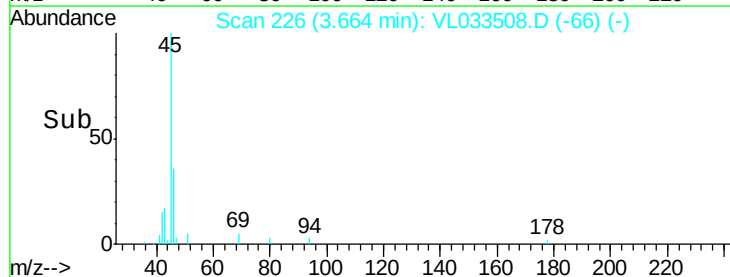
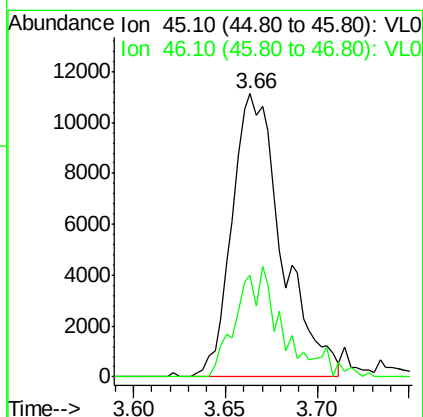
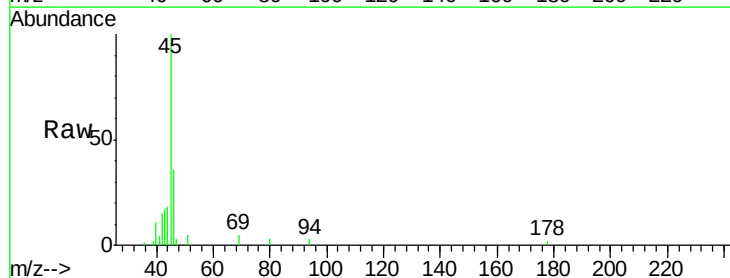
Acq: 29 Mar 2019 18:52

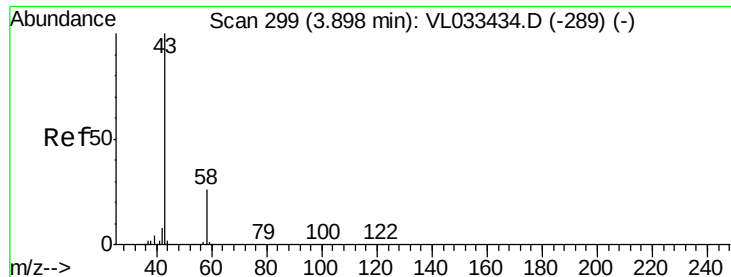
Tgt Ion: 45 Resp: 21134

Ion Ratio Lower Upper

45 100

46 36.1 25.4 101.8





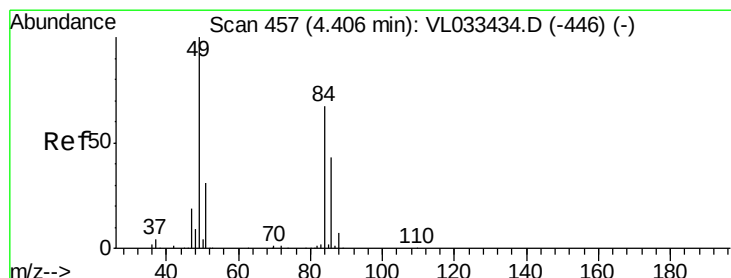
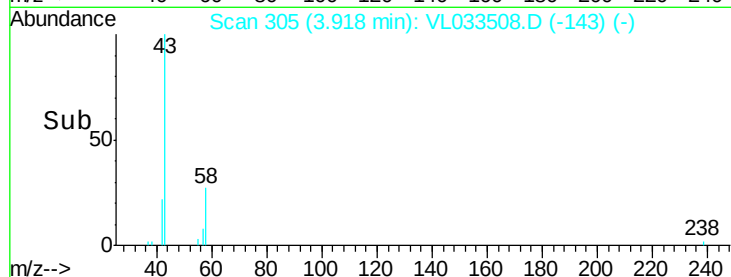
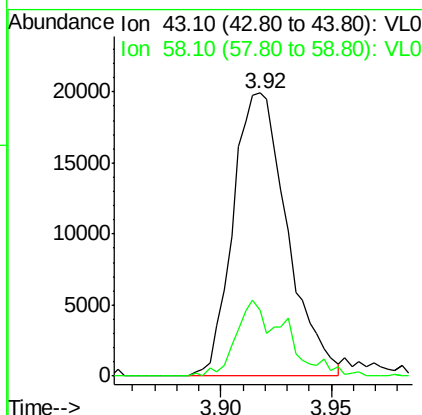
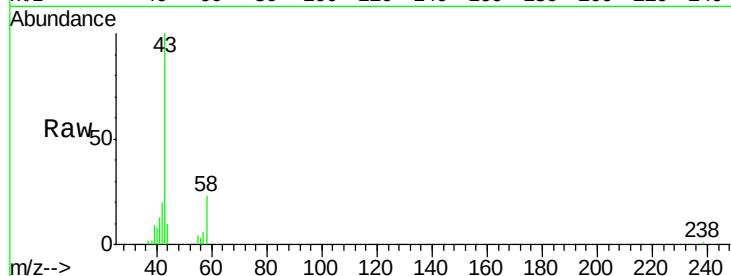
#15
Acetone
Concen: 0.379 ppbv
RT: 3.92 min Scan# 305
Delta R.T. 0.02 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

Instrument :
MSVOA_L
ClientSampleId :
AAS-1-ROOF-TOPDL

Tot Ion: 43 Resp: 33871
Ion Ratio Lower Upper
43 100
58 24.6 20.5 30.7

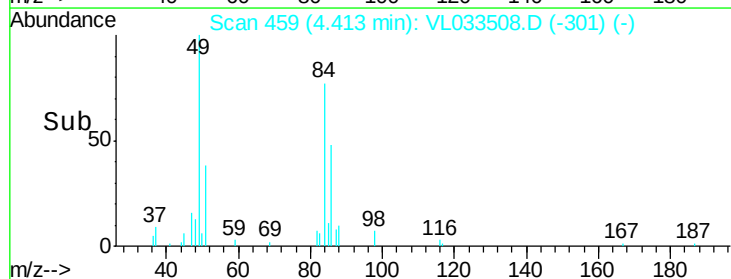
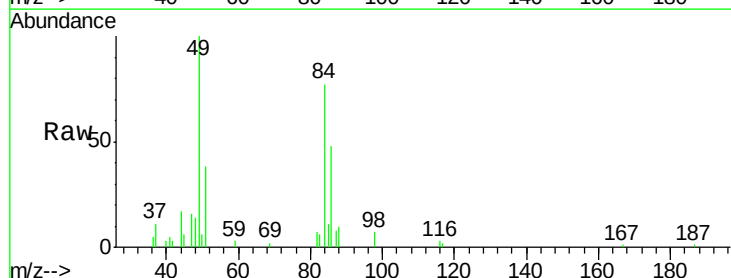
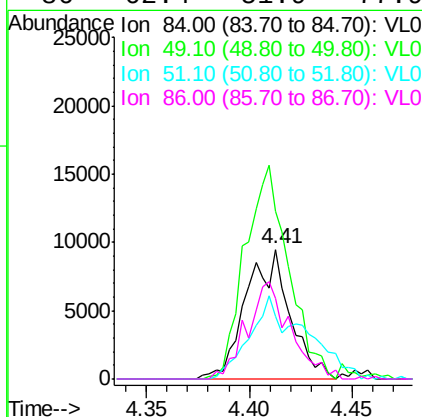
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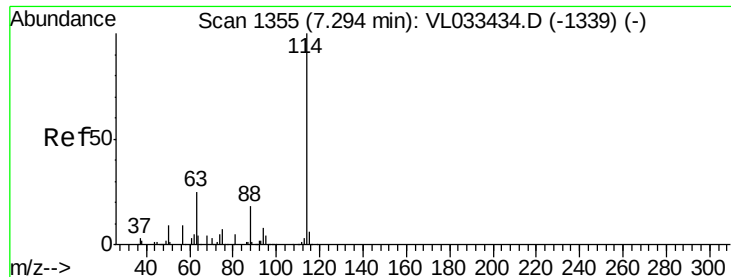
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#20
Methylene Chloride
Concen: 0.372 ppbv m
RT: 4.41 min Scan# 459
Delta R.T. 0.01 min
Lab File: VL033508.D
Acq: 29 Mar 2019 18:52

Tgt Ion: 84 Resp: 14107
Ion Ratio Lower Upper
84 100
49 129.8 120.0 180.0
51 48.7 36.7 55.1
86 62.4 51.9 77.9





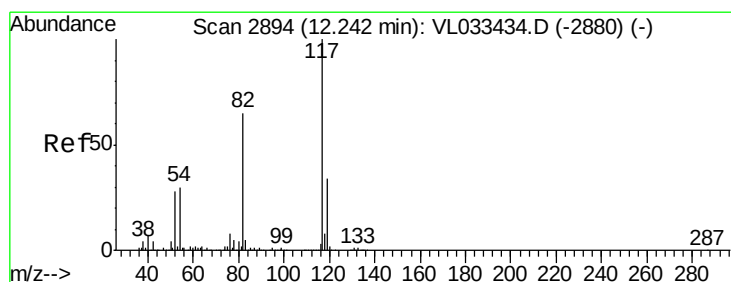
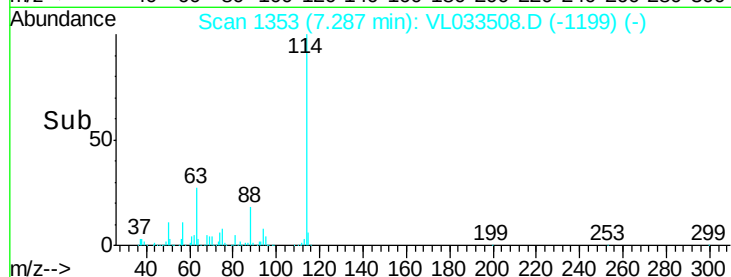
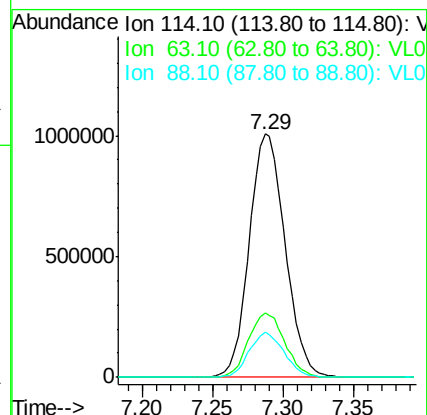
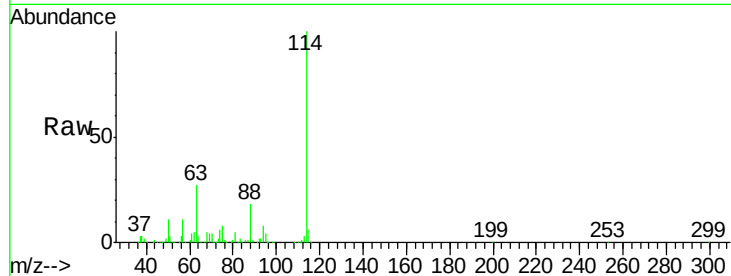
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033508.D
 Acq: 29 Mar 2019 18:52

Instrument :
 MSVOA_L
 ClientSampleId :
 AAS-1-ROOF-TOPDL

Tot Ion	Ratio	Lower	Upper
114	100		
63	27.0	21.5	32.3
88	18.1	14.5	21.7

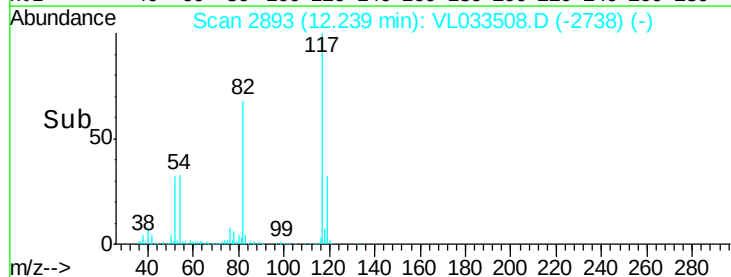
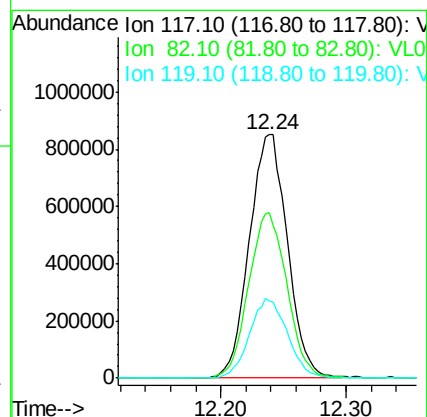
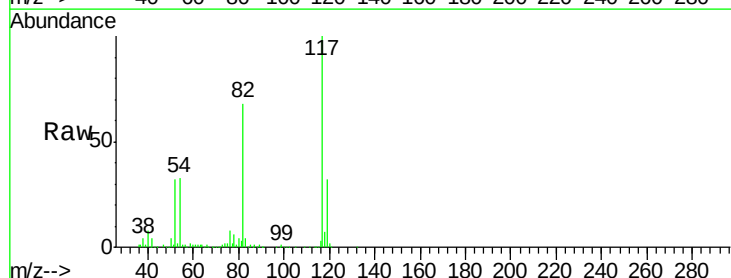
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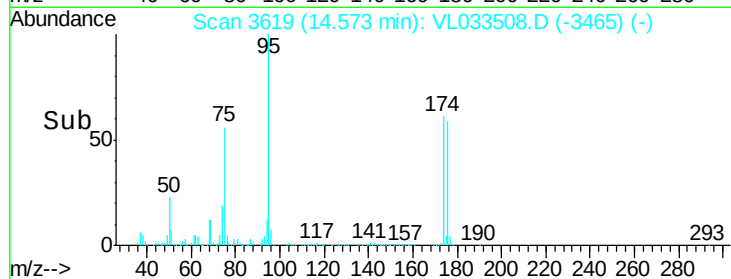
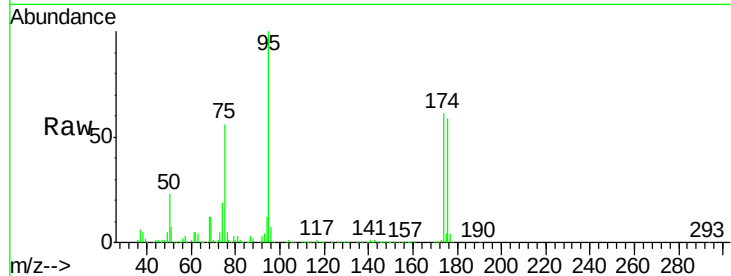
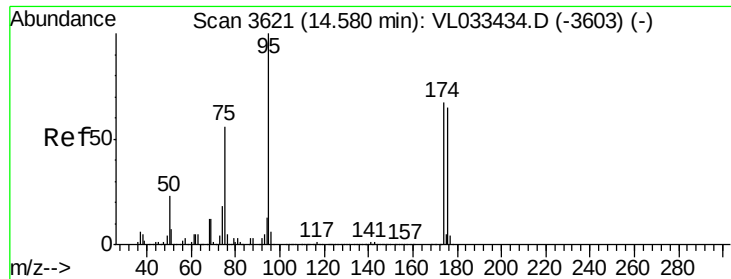
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#55
 Chlorobenzene-d5
 Concen: 10.000 ppbv
 RT: 12.24 min Scan# 2893
 Delta R.T. -0.00 min
 Lab File: VL033508.D
 Acq: 29 Mar 2019 18:52

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.5	51.5	77.3
119	32.7	25.5	38.3





#68

1-Bromo-4-Fluorobenzene

Concen: 10.105 ppbv

RT: 14.57 min Scan# 3619

Delta R.T. -0.01 min

Lab File: VL033508.D

Acq: 29 Mar 2019 18:52

Tot Ion: 95 Resp: 1426248

Ion Ratio Lower Upper

95 100

174 65.3 52.9 79.3

175 4.8 3.8 5.6

Instrument :

MSVOA_L

ClientSampleId :

AAS-1-ROOF-TOPDL

Manual Integrations

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