

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL031819\
 Data File : VL033378.D
 Acq On : 19 Mar 2019 3:55
 Operator : SY/AP
 Sample : K1952-05DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-OA1DL

Manual Integrations
 APPROVED

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 3/21/2019 12:15:43 PM

Quant Time: Mar 19 08:31:17 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL031519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Mar 19 08:31:17 2019
 QLast Update : Fri Mar 15 14:52:14 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	717414	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	1597780	10.00	ppbv	-0.01
55) Chlorobenzene-d5	12.24	117	1773322	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1361027	10.36	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	103.60%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.05	41	5204m	0.142	ppbv	
13) Ethanol	3.65	45	67663m	3.861	ppbv	
15) Acetone	3.91	43	50418	0.452	ppbv	96
19) Isopropyl Alcohol	4.05	45	12794m	0.241	ppbv	
20) Methylene Chloride	4.41	84	18085	0.497	ppbv	97
53) Toluene	9.94	91	166436	1.024	ppbv	98

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

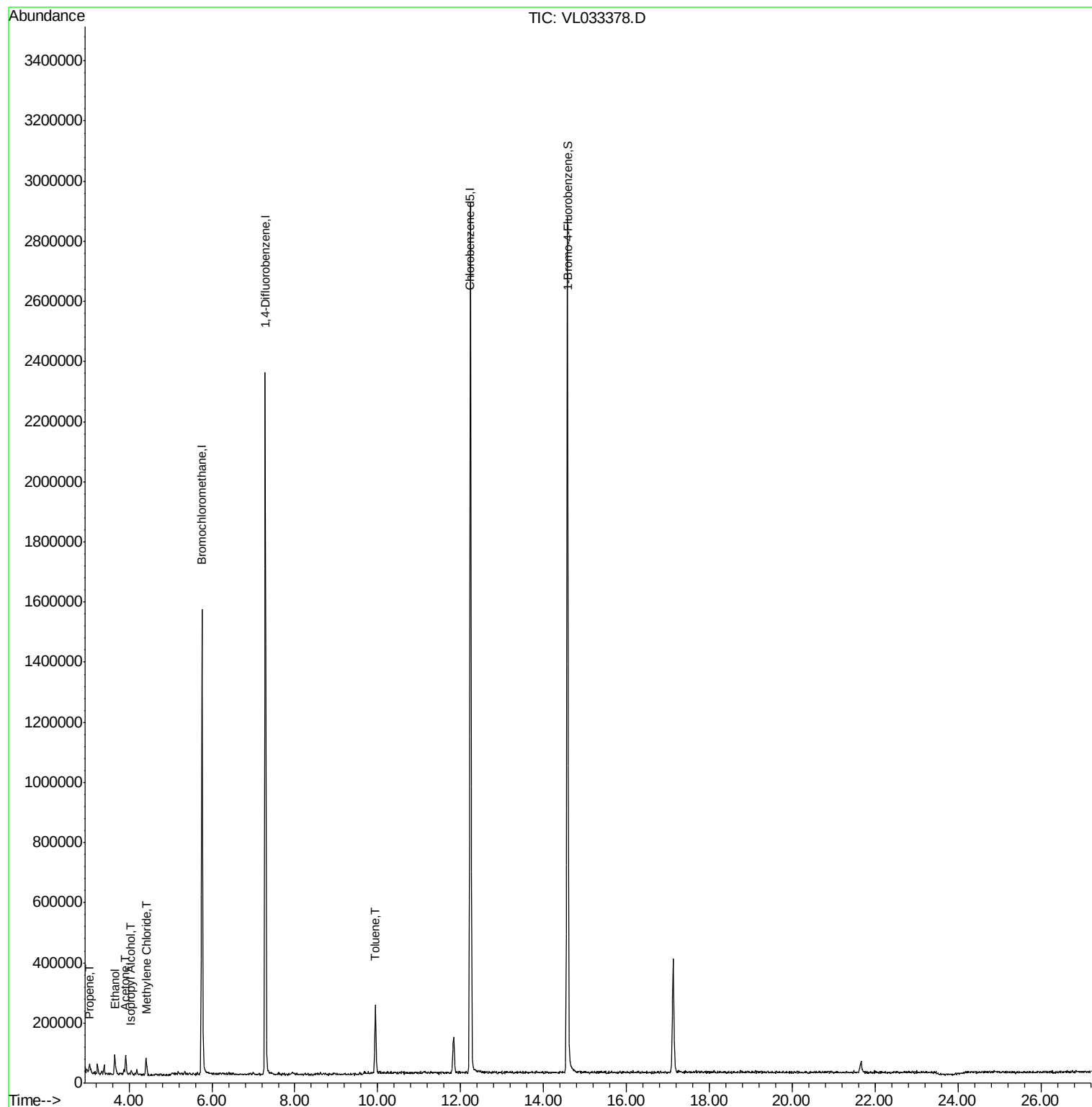
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL031819\
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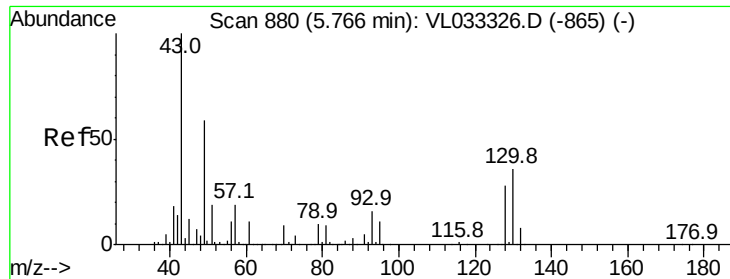
Instrument :
MSVOA_L
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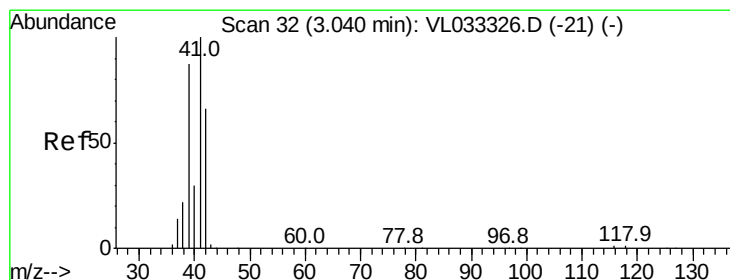
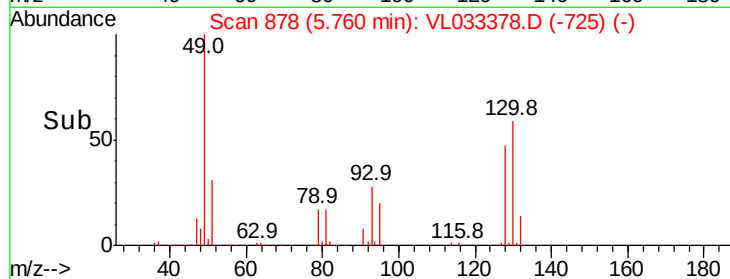
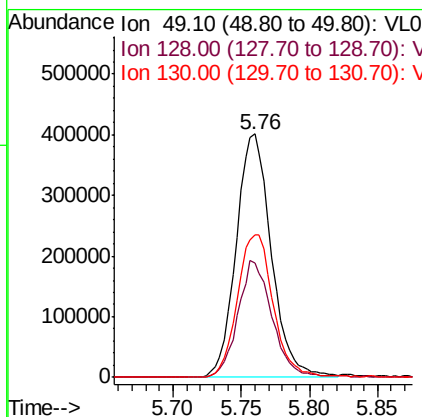
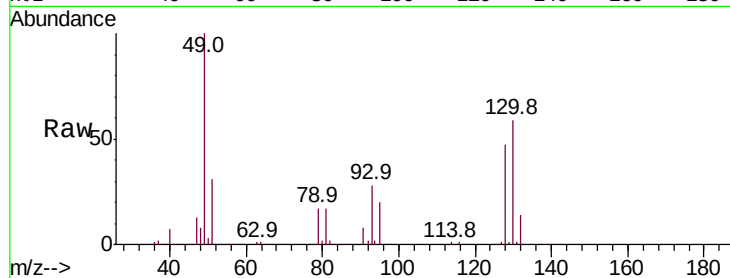
#1
Bromochloromethane
Concen: 10.000 ppbv
RT: 5.76 min Scan# 878
Delta R.T. -0.01 min
Lab File: VL033378.D
Acq: 19 Mar 2019 3:55

Instrument :
MSVOA_L
ClientSampleID :
L1HA-OA1DL

Tot Ion: 49 Resp: 717414
Ion Ratio Lower Upper
49 100
128 46.9 23.5 70.6
130 61.0 30.1 90.3

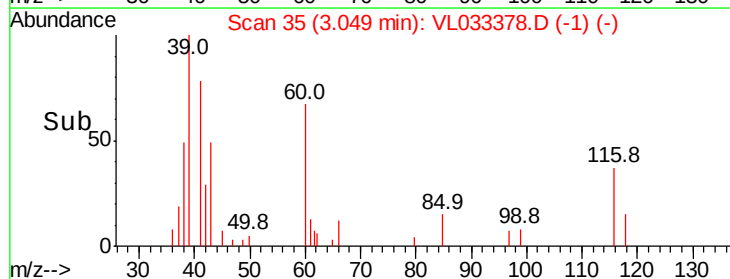
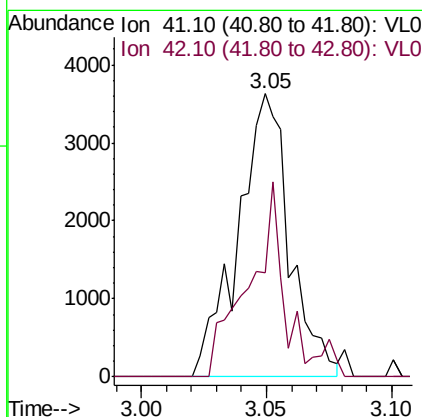
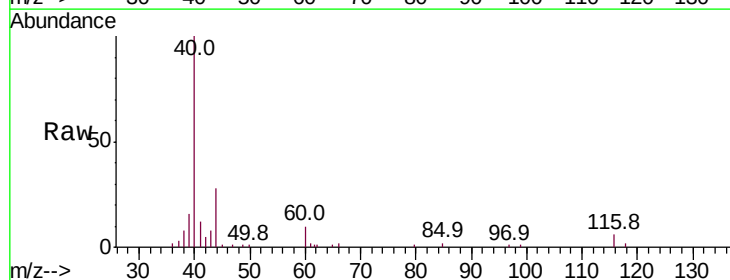
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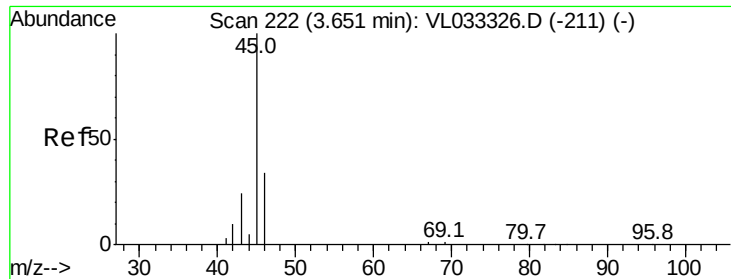
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#9
Propene
Concen: 0.142 ppbv m
RT: 3.05 min Scan# 35
Delta R.T. 0.01 min
Lab File: VL033378.D
Acq: 19 Mar 2019 3:55

Tgt Ion: 41 Resp: 5204
Ion Ratio Lower Upper
41 100
42 50.2 55.2 82.8#





#13

Ethanol

Concen: 3.861 ppbv m

RT: 3.65 min Scan# 223

Delta R.T. 0.00 min

Lab File: VL033378.D

Acq: 19 Mar 2019 3:55

Instrument :

MSVOA_L

ClientSampleId :

L1HA-OA1DL

Tot Ion: 45 Resp: 67663

Ion Ratio Lower Upper

45 100

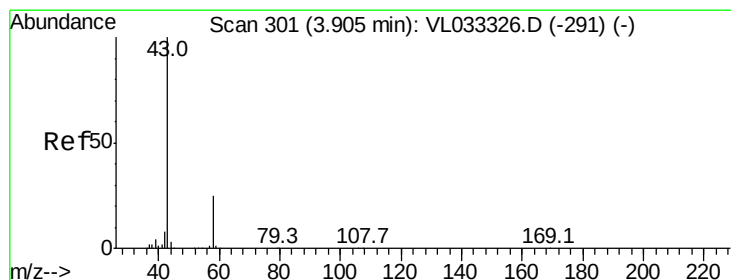
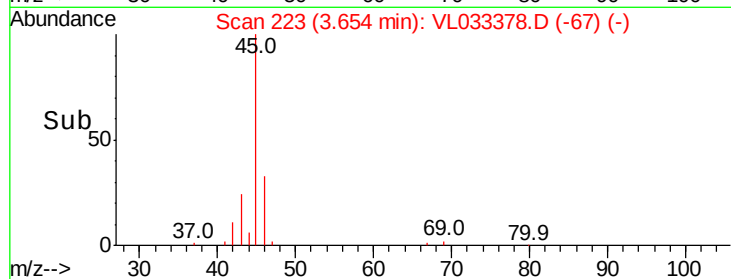
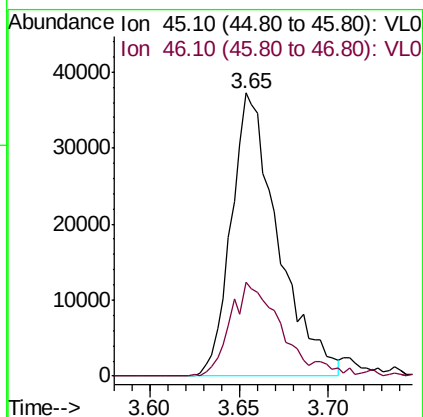
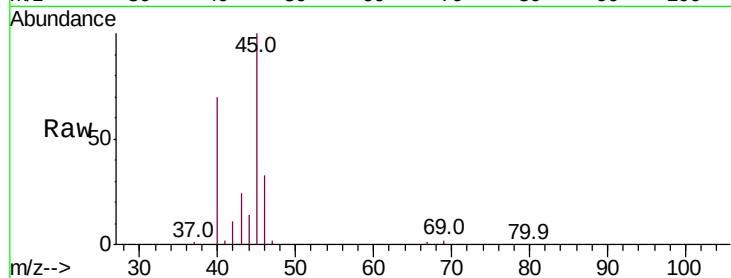
46 37.4 14.9 59.7

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#15

Acetone

Concen: 0.452 ppbv

RT: 3.91 min Scan# 304

Delta R.T. 0.01 min

Lab File: VL033378.D

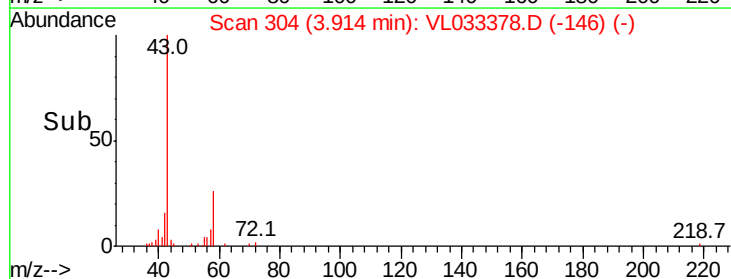
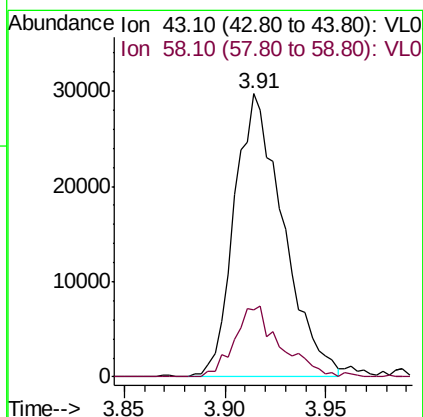
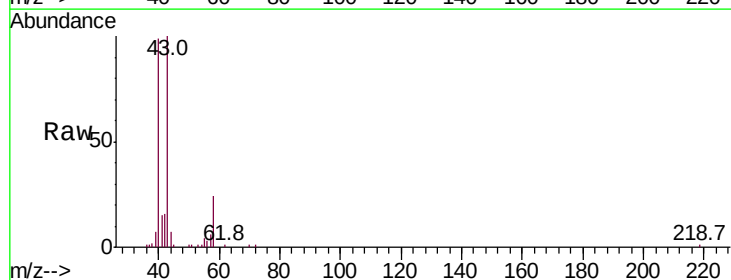
Acq: 19 Mar 2019 3:55

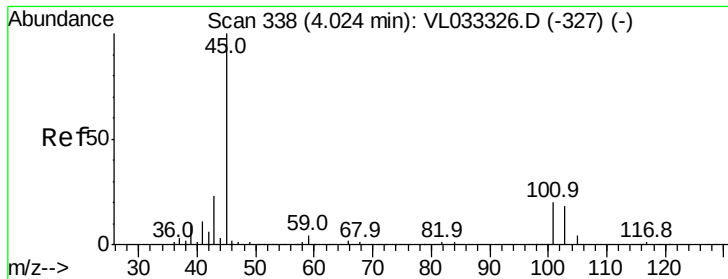
Tgt Ion: 43 Resp: 50418

Ion Ratio Lower Upper

43 100

58 23.5 20.4 30.6





#19

Isopropyl Alcohol

Concen: 0.241 ppbv

RT: 4.05 min Scan# 347

Delta R.T. 0.03 min

Lab File: VL033378.D

Acq: 19 Mar 2019 3:55

Instrument :

MSVOA_L

ClientSampleId :

L1HA-OA1DL

Tot Ion: 45 Resp: 12794

Ion Ratio Lower Upper

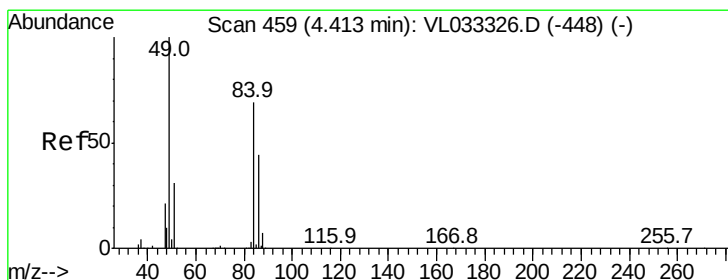
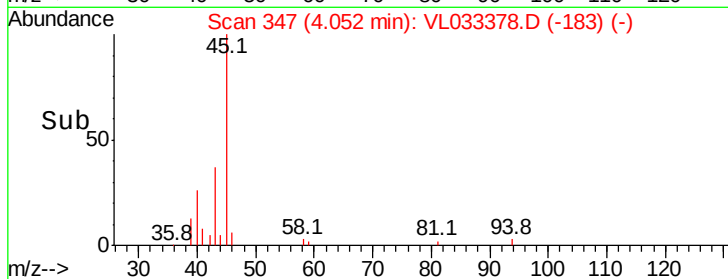
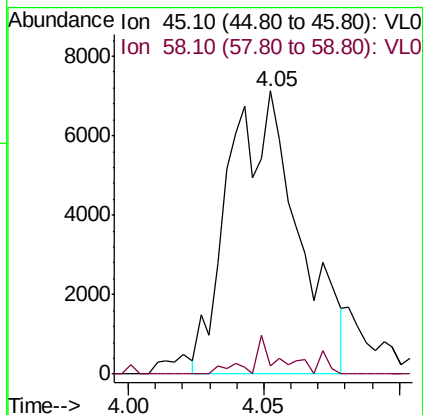
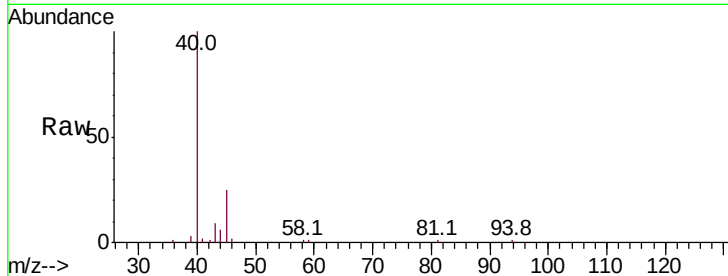
45 100

58 0.0 1.5 2.3#

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#20

Methylene Chloride

Concen: 0.497 ppbv

RT: 4.41 min Scan# 459

Delta R.T. -0.00 min

Lab File: VL033378.D

Acq: 19 Mar 2019 3:55

Tgt Ion: 84 Resp: 18085

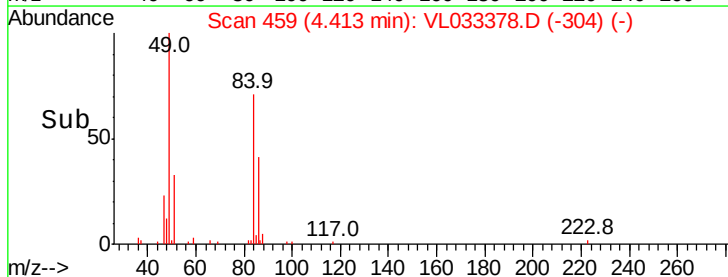
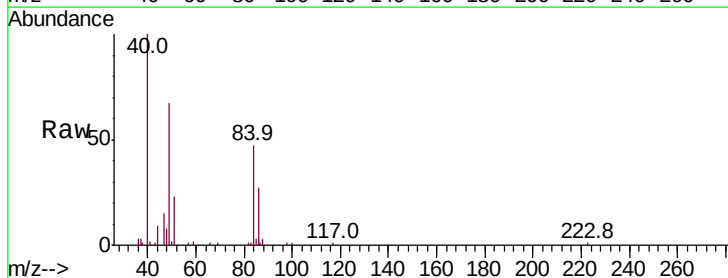
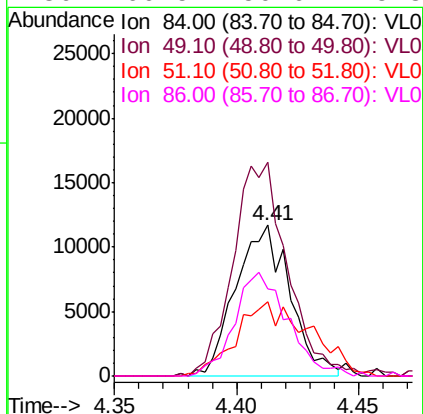
Ion Ratio Lower Upper

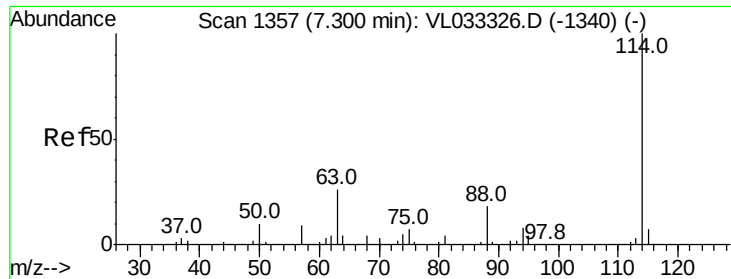
84 100

49 141.5 115.4 173.0

51 47.2 35.8 53.6

86 60.5 50.6 75.8





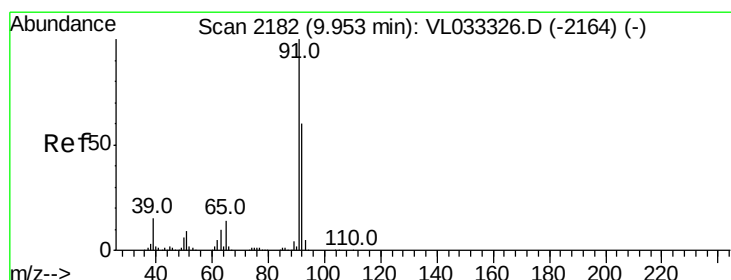
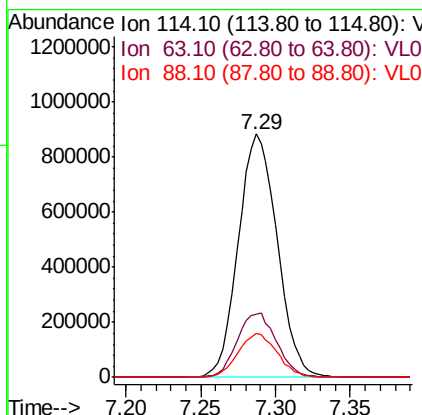
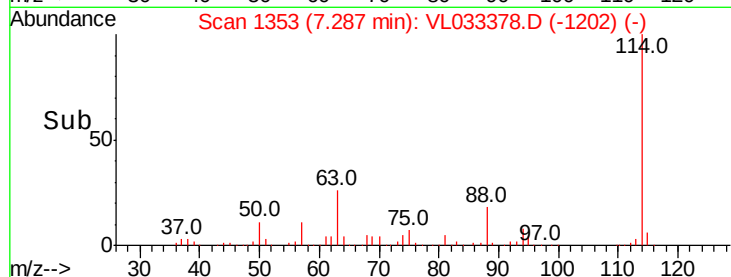
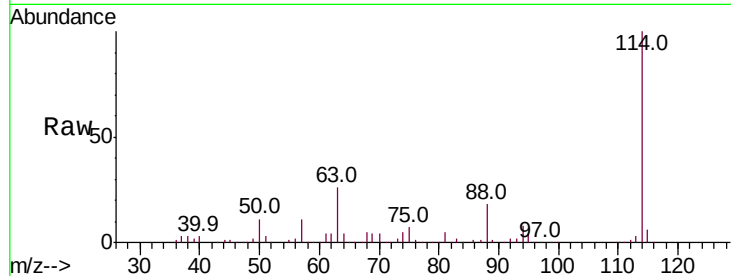
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. -0.01 min
 Lab File: VL033378.D
 Acq: 19 Mar 2019 3:55

Instrument :
 MSVOA_L
 ClientSampleId :
 L1HA-OA1DL

Tot Ion: 114 Resp: 1597780
 Ion Ratio Lower Upper
 114 100
 63 27.0 21.4 32.2
 88 18.2 14.5 21.7

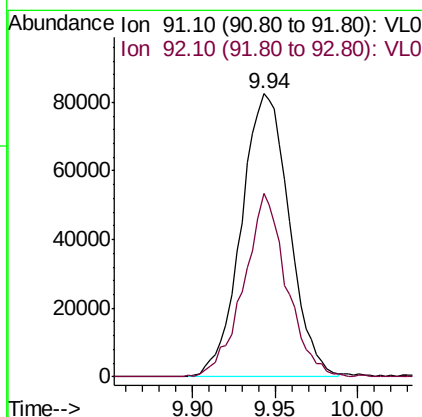
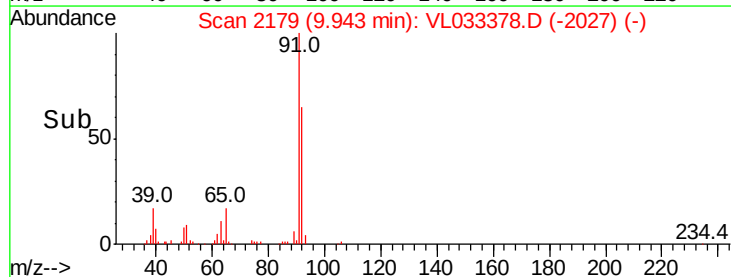
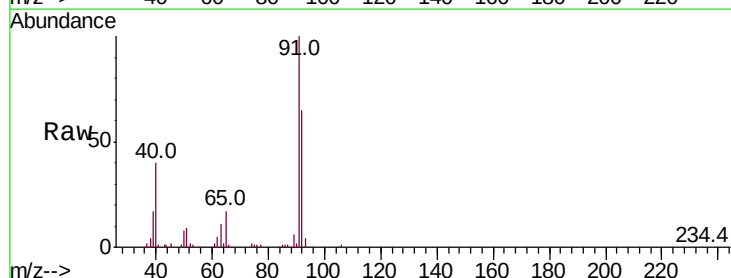
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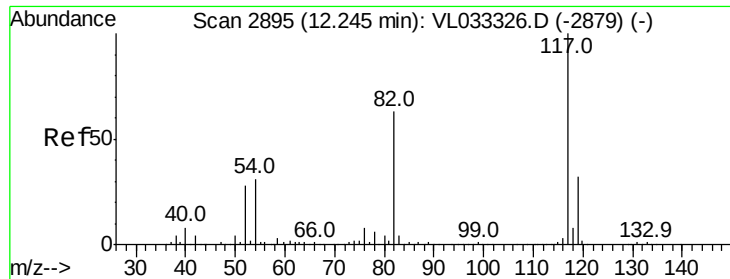
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#53
 Toluene
 Concen: 1.024 ppbv
 RT: 9.94 min Scan# 2179
 Delta R.T. -0.01 min
 Lab File: VL033378.D
 Acq: 19 Mar 2019 3:55

Tgt Ion: 91 Resp: 166436
 Ion Ratio Lower Upper
 91 100
 92 58.1 47.4 71.0





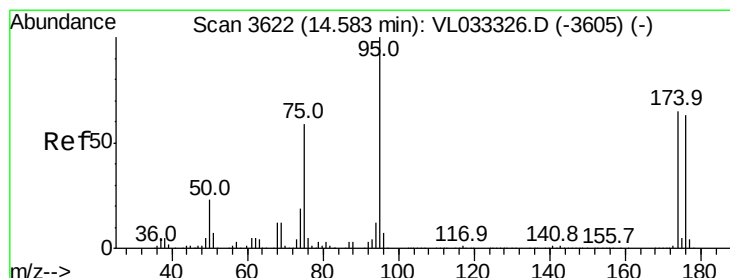
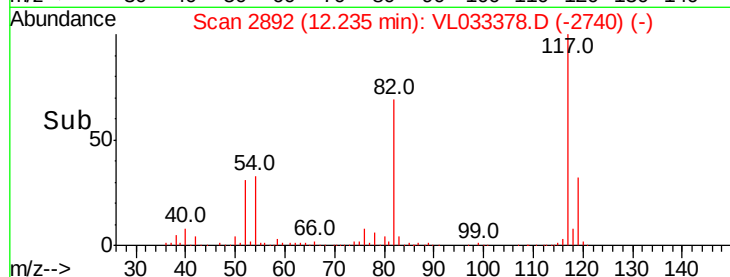
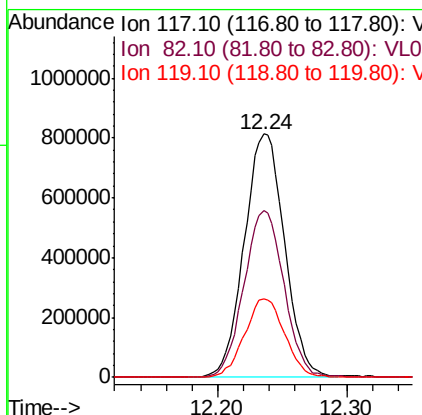
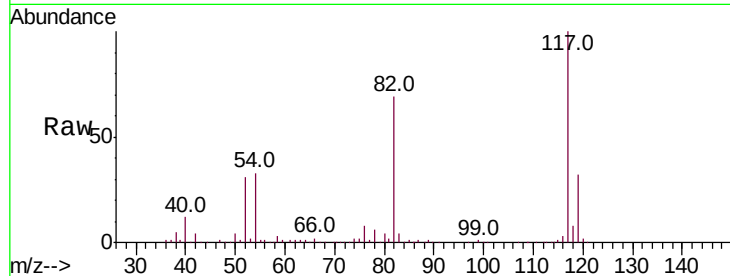
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. -0.01 min
Lab File: VL033378.D
Acq: 19 Mar 2019 3:55

Instrument :
MSVOA_L
ClientSampled :
L1HA-OA1DL

Tot Ion:117 Resp: 1773322
Ion Ratio Lower Upper
117 100
82 68.4 53.4 80.2
119 32.3 27.3 40.9

Manual Integrations
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#68
1-Bromo-4-Fluorobenzene
Concen: 10.358 ppbv
RT: 14.57 min Scan# 3619
Delta R.T. -0.01 min
Lab File: VL033378.D
Acq: 19 Mar 2019 3:55

Tgt Ion: 95 Resp: 1361027
Ion Ratio Lower Upper
95 100
174 63.6 51.5 77.3
175 4.5 3.8 5.6

