

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL032719\
 Data File : VL033490.D
 Acq On : 28 Mar 2019 5:33
 Operator : SY/AP
 Sample : K1991-07DL 10X
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 VMP-4DL

Manual Integrations
 APPROVED

MMDadoda
 4/1/2019 1:26:08 AM

Quant Time: Mar 28 09:37:39 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar 28 09:37:39 2019
 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	5.75	49	790911	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.28	114	2030205	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2033023	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1526610	9.58	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	95.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
9) Propene	3.04	41	7787m	0.204	ppbv	
10) Heptane	8.24	43	52147	0.510	ppbv	99
13) Ethanol	3.66	45	17872m	1.806	ppbv	
15) Acetone	3.90	43	288300	3.032	ppbv	94
26) Hexane	5.77	57	59614	0.760	ppbv #	45
30) Cyclohexane	7.24	84	29939m	0.482	ppbv	
34) 2-Butanone	5.34	43	50167	0.411	ppbv	100
53) Toluene	9.94	91	100949	0.510	ppbv	98

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

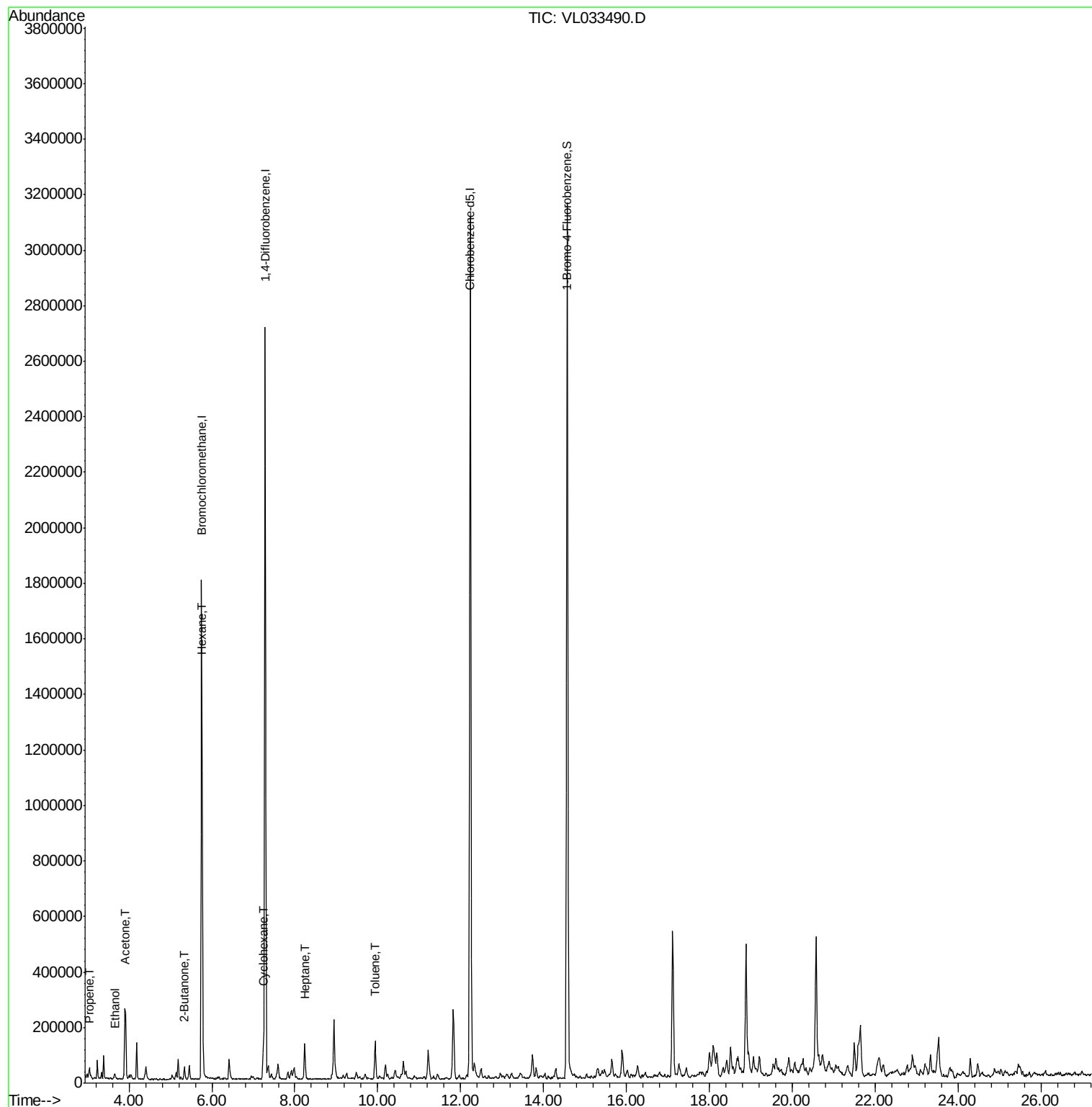
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL032719\
Data File : VL033490.D
Acq On : 28 Mar 2019 5:33
Operator : SY/AP
Sample : K1991-07DL 10X
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

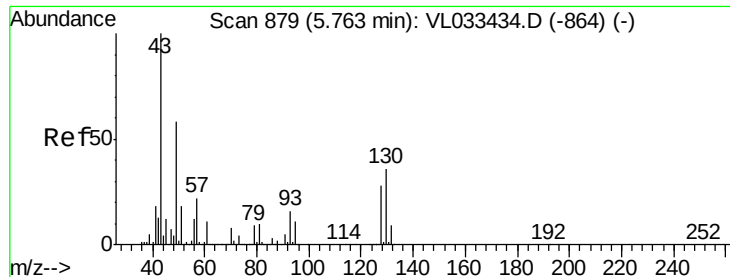
Instrument :
MSVOA_L
ClientSampleId :
VMP-4DL

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:26:08 AM

Quant Time: Mar 28 09:37:39 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL032519AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Tue Mar
QLast Update : Tue Mar 26 16:00:50 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.75 min Scan# 876

Delta R.T. -0.01 min

Lab File: VL033490.D

Acq: 28 Mar 2019 5:33

Instrument :

MSVOA_L

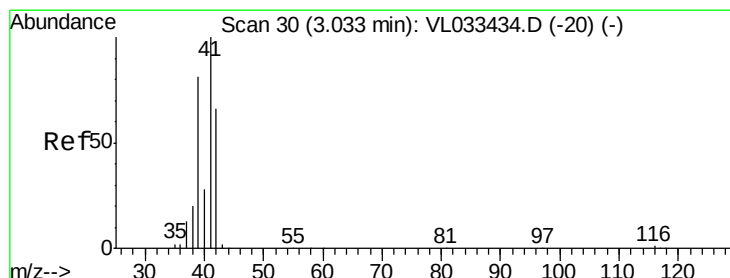
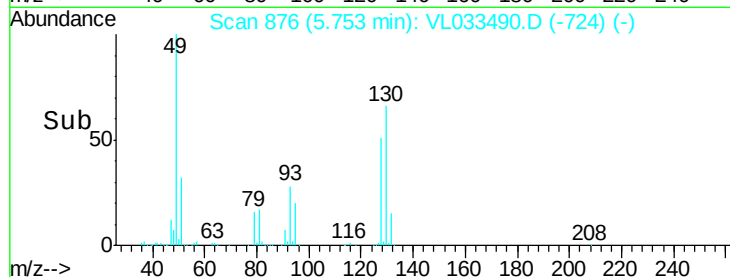
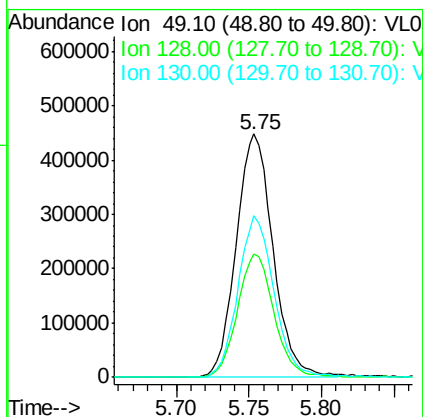
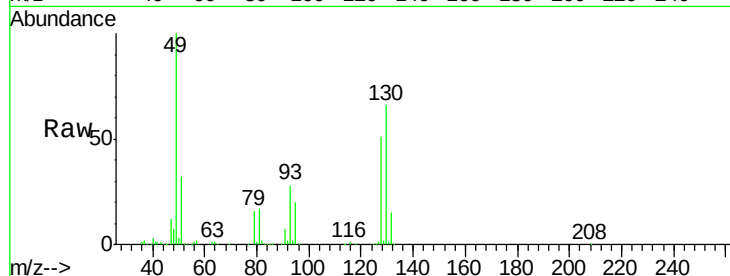
ClientSampleId :

VMP-4DL

Tot Ion:	49	Resp:	790911
Ion Ratio	Lower	Upper	
49	100		
128	50.8	24.0	72.0
130	66.1	31.2	93.6

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:26:08 AM



#9

Propene

Concen: 0.204 ppbv m

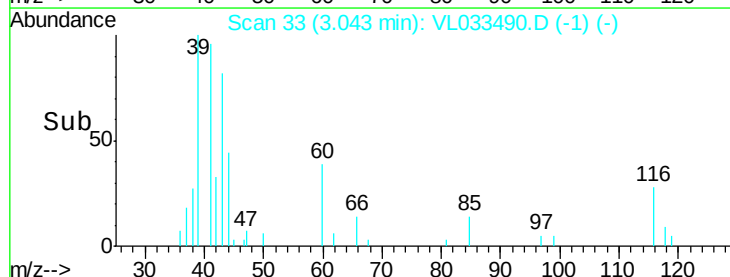
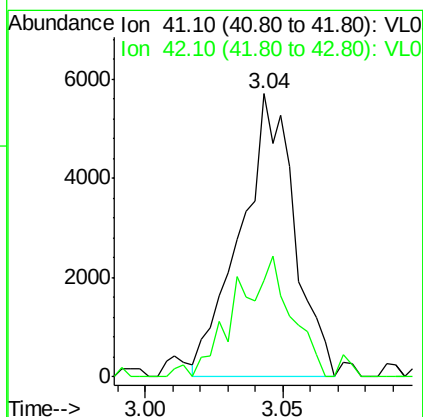
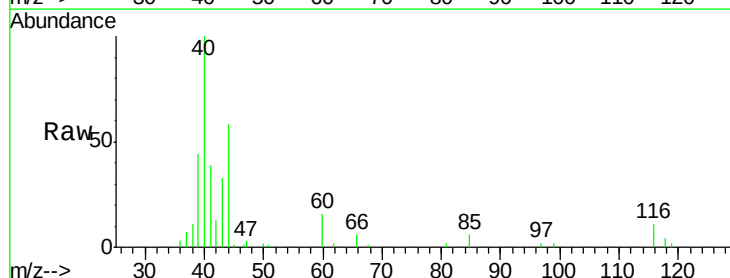
RT: 3.04 min Scan# 33

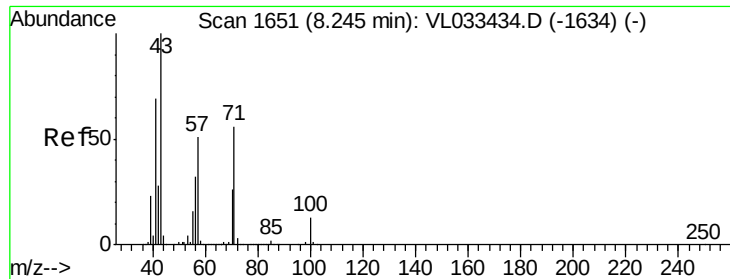
Delta R.T. 0.01 min

Lab File: VL033490.D

Acq: 28 Mar 2019 5:33

Tgt Ion:	41	Resp:	7787
Ion Ratio	Lower	Upper	
41	100		
42	0.0	53.9	80.9#





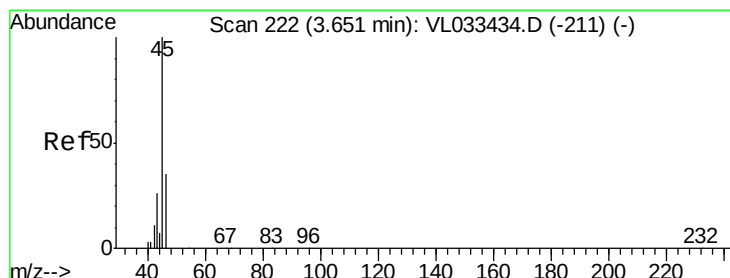
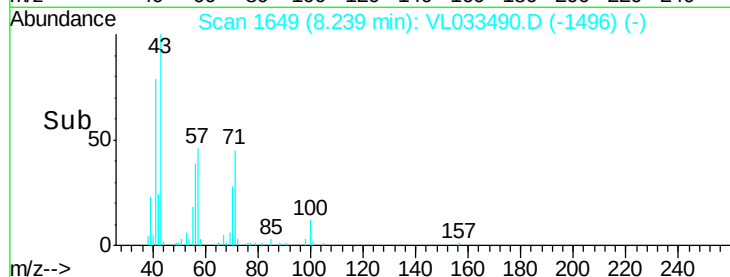
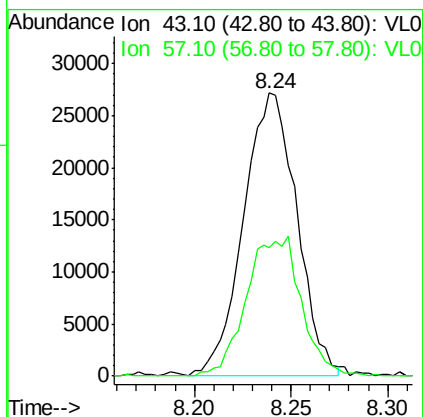
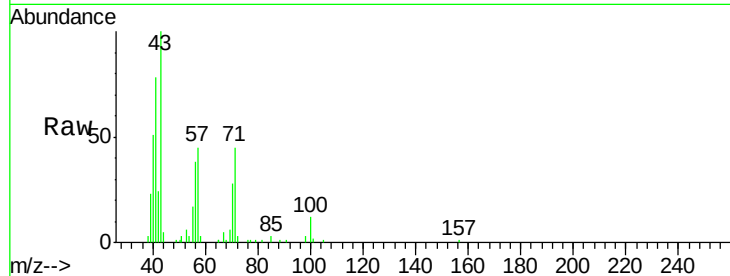
#10
Heptane
Concen: 0.510 ppbv
RT: 8.24 min Scan# 1649
Delta R.T. -0.01 min
Lab File: VL033490.D
Acq: 28 Mar 2019 5:33

Instrument :
MSVOA_L
ClientSampleId :
VMP-4DL

Tot Ion: 43 Resp: 52147
Ion Ratio Lower Upper
43 100
57 50.2 40.6 60.8

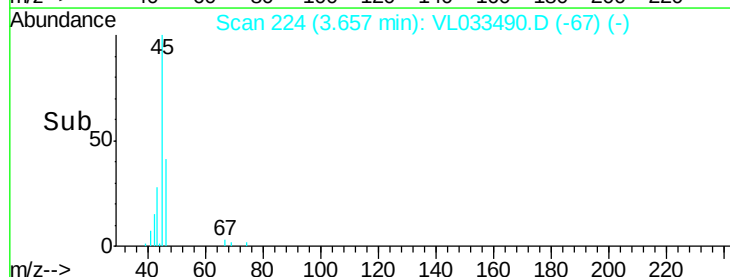
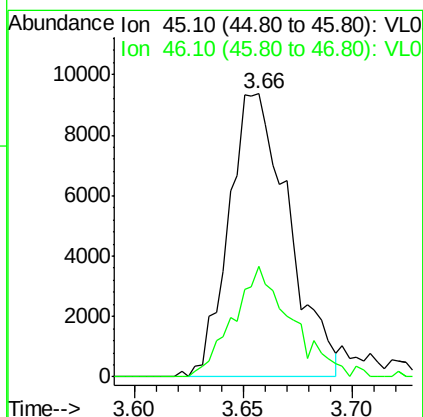
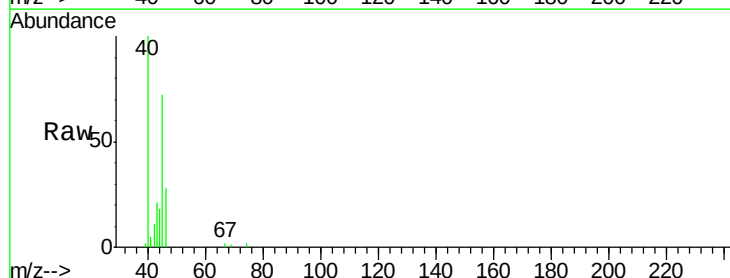
Manual Integrations
APPROVED

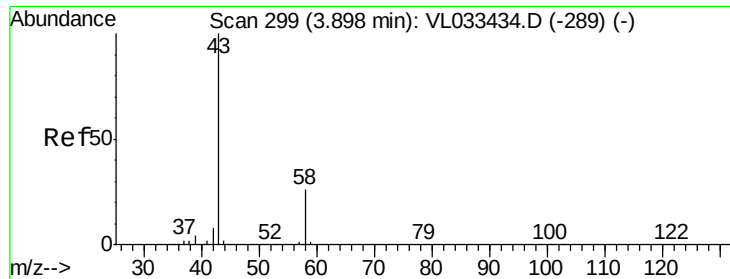
MMDadoda
4/1/2019 1:26:08 AM



#13
Ethanol
Concen: 1.806 ppbv m
RT: 3.66 min Scan# 224
Delta R.T. 0.01 min
Lab File: VL033490.D
Acq: 28 Mar 2019 5:33

Tgt Ion: 45 Resp: 17872
Ion Ratio Lower Upper
45 100
46 38.4 25.4 101.8





#15

Acetone

Concen: 3.032 ppbv

RT: 3.90 min Scan# 299

Delta R.T. -0.00 min

Lab File: VL033490.D

Acq: 28 Mar 2019 5:33

Instrument :

MSVOA_L

ClientSampleId :

VMP-4DL

Tot Ion: 43 Resp: 288300

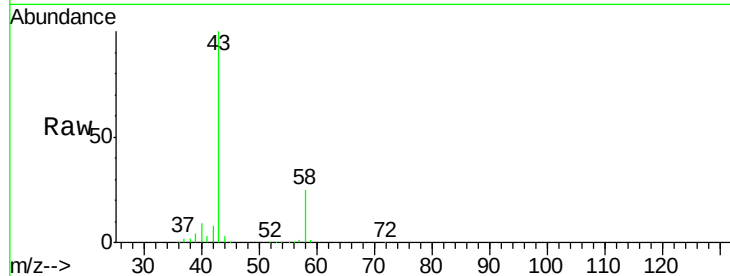
Ion Ratio Lower Upper

43 100

58 22.7 20.5 30.7

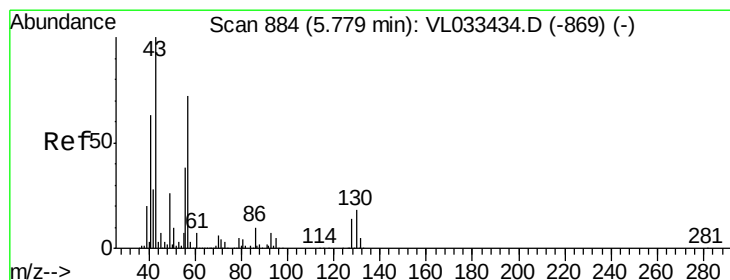
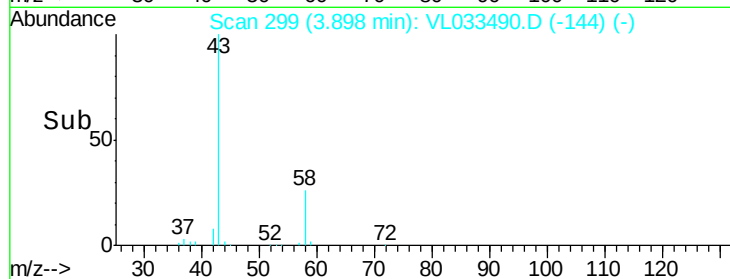
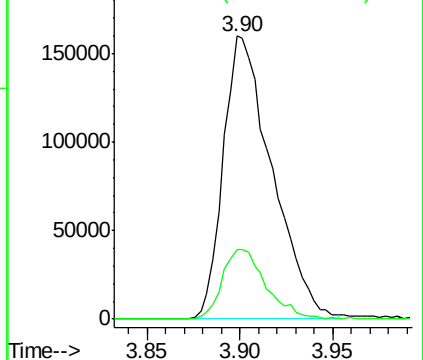
Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:26:08 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#26

Hexane

Concen: 0.760 ppbv

RT: 5.77 min Scan# 882

Delta R.T. -0.01 min

Lab File: VL033490.D

Acq: 28 Mar 2019 5:33

Tgt Ion: 57 Resp: 59614

Ion Ratio Lower Upper

57 100

41 91.5 70.7 106.1

43 86.9 182.6 274.0#

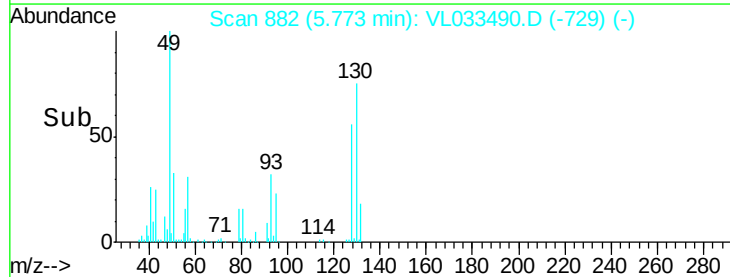
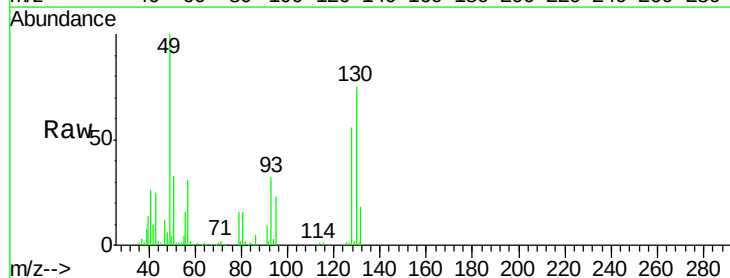
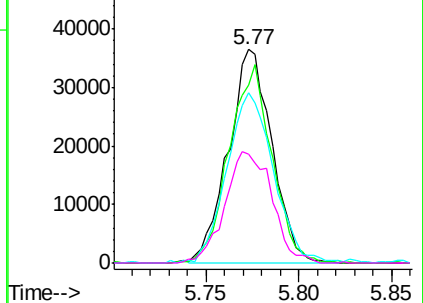
56 56.1 42.0 63.0

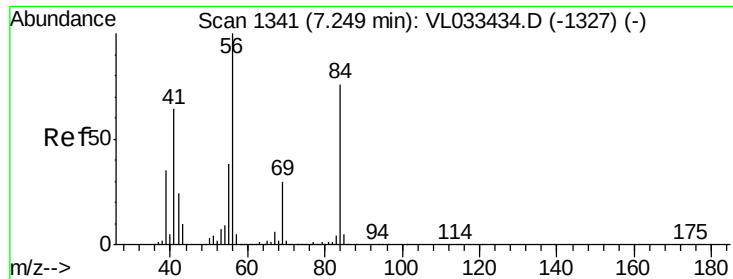
Abundance Ion 57.10 (56.80 to 57.80): VL0

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





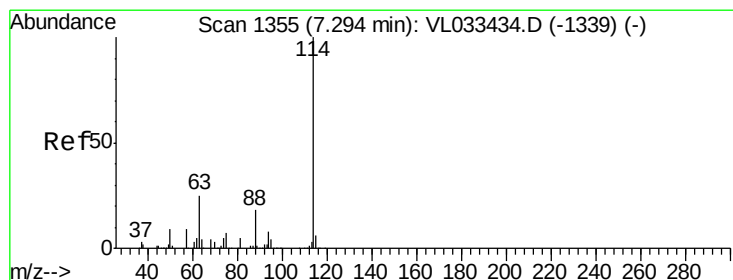
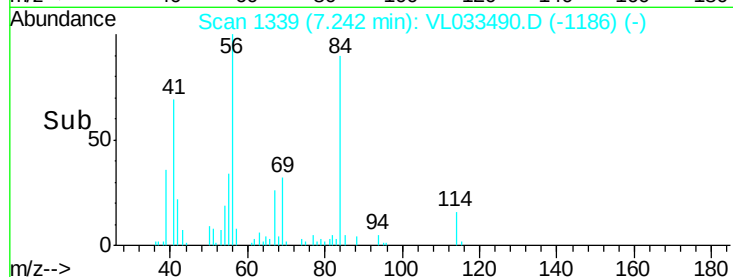
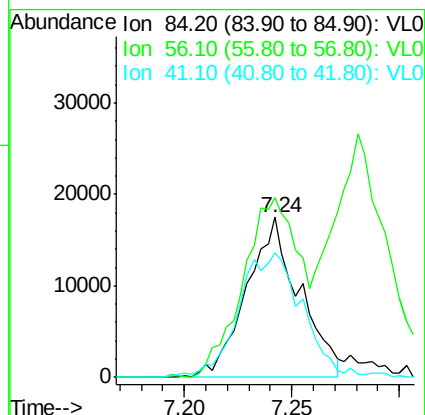
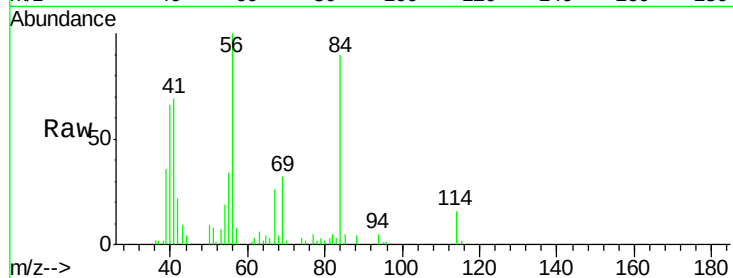
#30
Cyclohexane
Concen: 0.482 ppbv m
RT: 7.24 min Scan# 1339
Delta R.T. -0.01 min
Lab File: VL033490.D
Acq: 28 Mar 2019 5:33

Instrument :
MSVOA_L
ClientSampled :
VMP-4DL

Tot Ion	Ratio	Lower	Upper
84	100		
56	119.3	109.7	164.5
41	93.6	68.2	102.2

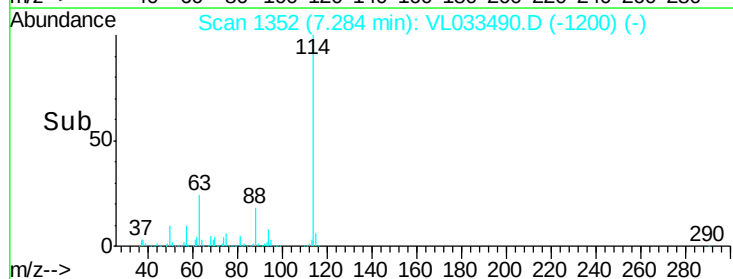
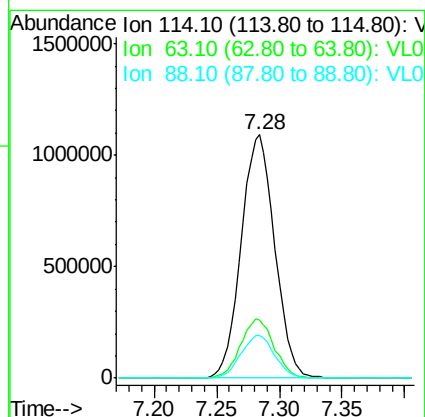
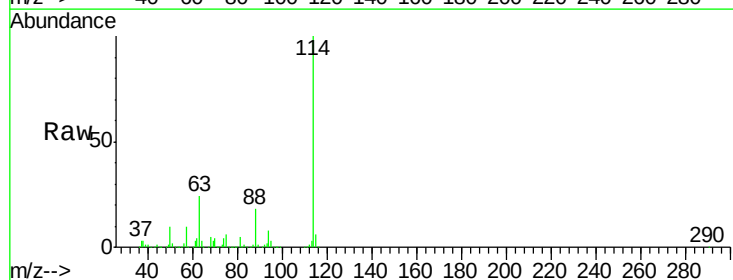
Manual Integrations
APPROVED

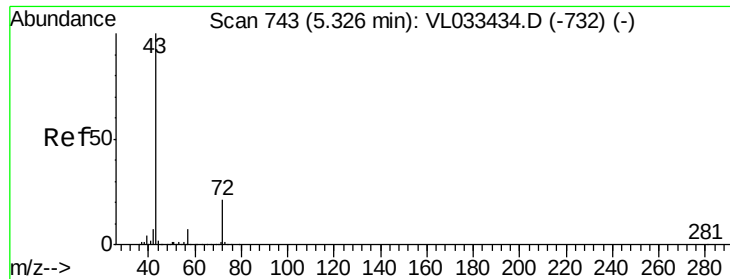
MMDadoda
4/1/2019 1:26:08 AM



#33
1,4-Difluorobenzene
Concen: 10.000 ppbv
RT: 7.28 min Scan# 1352
Delta R.T. -0.01 min
Lab File: VL033490.D
Acq: 28 Mar 2019 5:33

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.4	21.5	32.3
88	17.6	14.5	21.7





#34

2-Butanone

Concen: 0.411 ppbv

RT: 5.34 min Scan# 747

Delta R.T. 0.01 min

Lab File: VL033490.D

Acq: 28 Mar 2019 5:33

Instrument :

MSVOA_L

ClientSampleId :

VMP-4DL

Tot Ion: 43 Resp: 50167

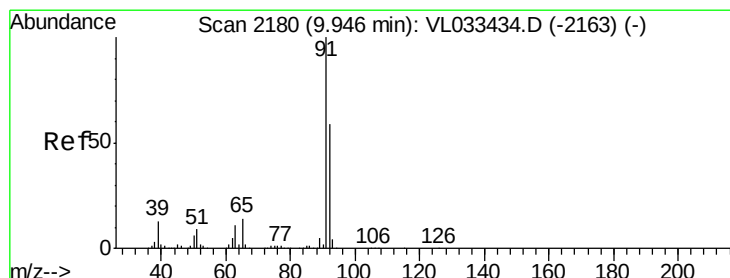
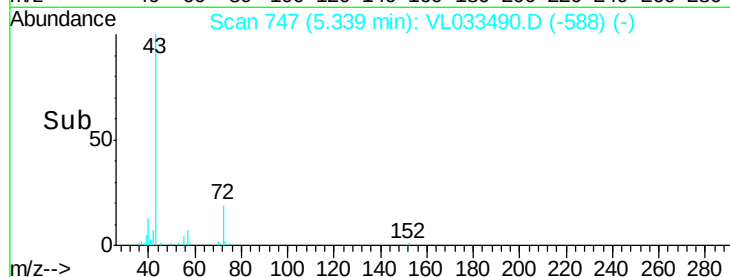
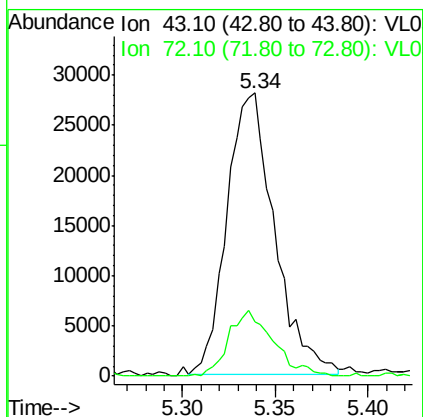
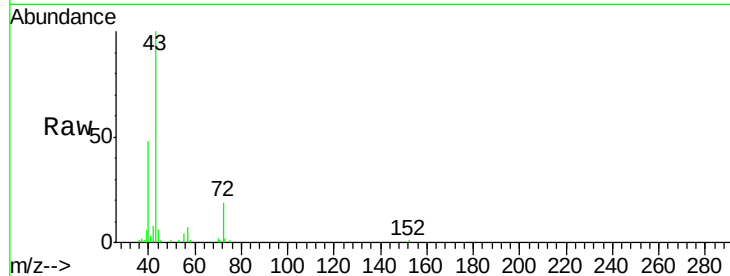
Ion Ratio Lower Upper

43 100

72 21.8 17.4 26.2

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:26:08 AM



#53

Toluene

Concen: 0.510 ppbv

RT: 9.94 min Scan# 2178

Delta R.T. -0.01 min

Lab File: VL033490.D

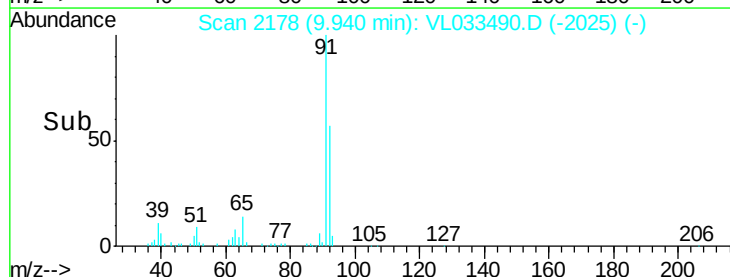
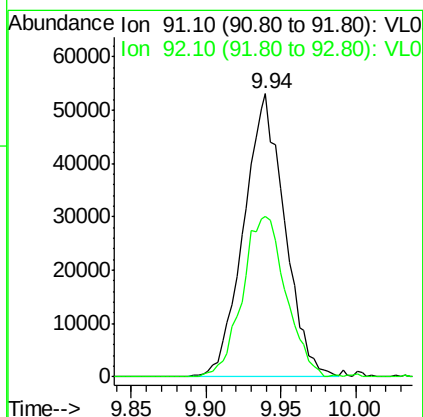
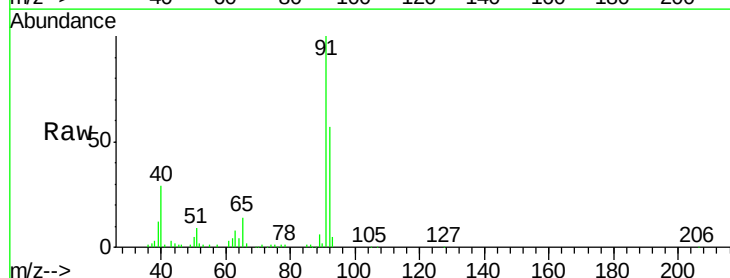
Acq: 28 Mar 2019 5:33

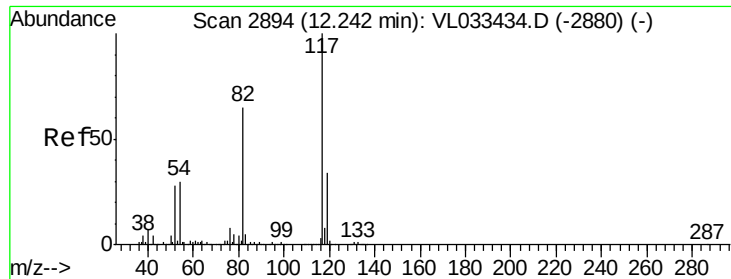
Tgt Ion: 91 Resp: 100949

Ion Ratio Lower Upper

91 100

92 60.4 47.4 71.0





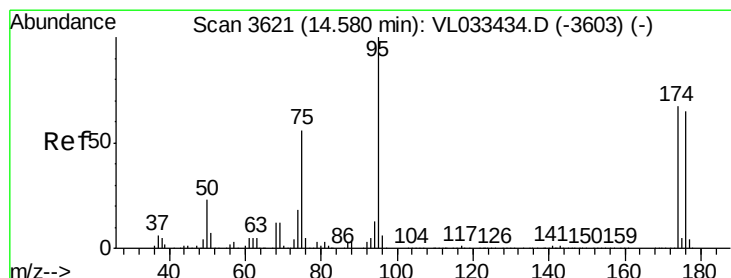
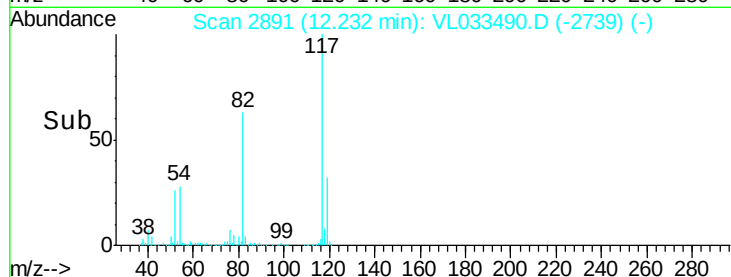
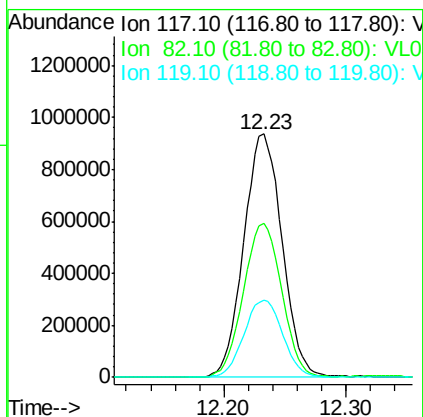
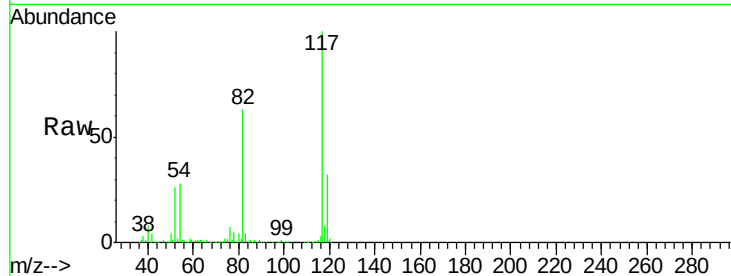
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. -0.01 min
Lab File: VL033490.D
Acq: 28 Mar 2019 5:33

Instrument :
MSVOA_L
ClientSampleId :
VMP-4DL

Tot Ion:117 Resp: 2033023
Ion Ratio Lower Upper
117 100
82 63.4 51.5 77.3
119 32.3 25.5 38.3

Manual Integrations
APPROVED

MMDadoda
4/1/2019 1:26:08 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.578 ppbv
RT: 14.57 min Scan# 3618
Delta R.T. -0.01 min
Lab File: VL033490.D
Acq: 28 Mar 2019 5:33

Tgt Ion: 95 Resp: 1526610
Ion Ratio Lower Upper
95 100
174 68.0 52.9 79.3
175 5.1 3.8 5.6

