

Data File : VL034346.D
Acq On : 24 Oct 2019 14:59
Operator : SY/AP
Sample : K5477-01 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampleId :
SV5

Manual Integrations
APPROVED

Quant Time: Oct 27 18:21:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD T0-15 Instrument: MSVOA_L Thu Oct 1
QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.69	49	982680	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.21	114	2100609	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1912757m	10.00	ppbv	0.09

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene 14.54 95 1516631 9.36 ppbv 0.05 MMDadoda
Spiked Amount 10.000 Range 65 - 135 Recovery = 93.60%

Target Compounds

						Qvalue
10) Heptane	8.17	43	19117	0.146	ppbv #	28
15) Acetone	3.86	43	152350	1.084	ppbv	95
18) 1,1-Dichloroethene	4.29	96	6541m	0.142	ppbv	
22) trans-1,2-Dichloroethene	4.89	96	178480	3.878	ppbv	94
26) Hexane	5.70	57	53266	0.527	ppbv #	41
29) Chloroform	5.77	83	760774	4.755	ppbv	99
31) cis-1,2-Dichloroethene	5.57	61	8545088	83.247	ppbv #	52
32) 1,1,1-Trichloroethane	6.54	97	8348m	0.054	ppbv	
34) 2-Butanone	5.28	43	148937	0.867	ppbv	95
36) Benzene	6.93	78	215031	1.067	ppbv #	94
38) Trichloroethene	7.89	130	8569532	105.957	ppbv	89
44) 2,2,4-Trimethylpentane	7.92	57	389602	1.044	ppbv	97
52) Tetrachloroethene	11.44	164	77851881m	985.448	ppbv	
53) Toluene	9.86	91	98463	0.443	ppbv	92
59) m/p-Xylene	13.11	91	135845m	0.586	ppbv	
60) o-Xylene	13.82	91	53092m	0.230	ppbv	

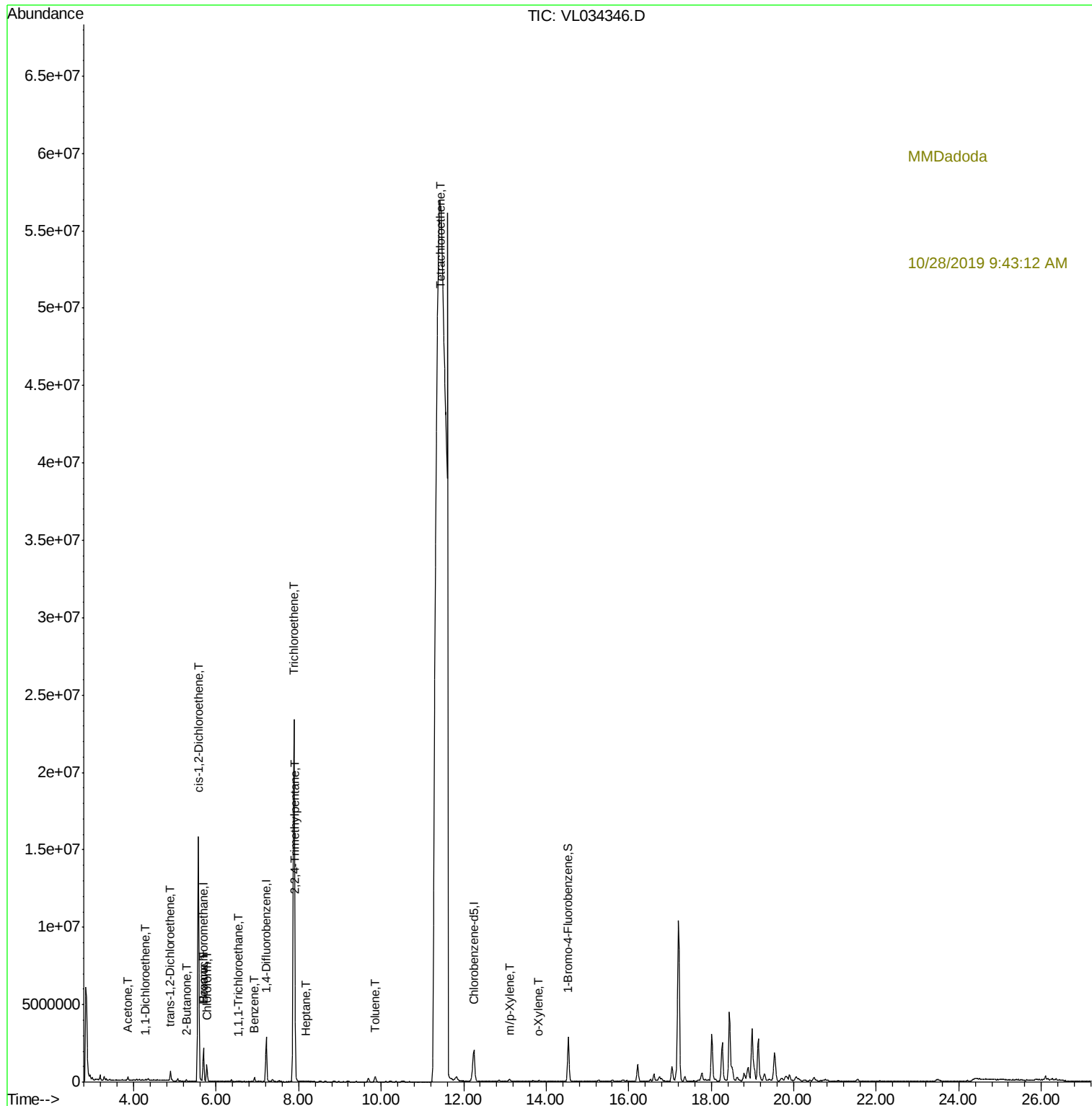
(#) = qualifier out of range (m) = manual integration (+) = signals summed

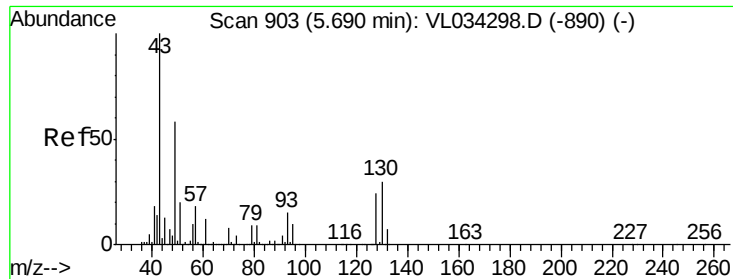
Data File : VL034346.D
Acq On : 24 Oct 2019 14:59
Operator : SY/AP
Sample : K5477-01 10X
Misc : 400ml/MSVOA_L
ALS Vial : 1 Sample Multiplier: 1

Instrument :
MSVOA_L
ClientSampled :
SV5

Manual Integrations
APPROVED

Quant Time: Oct 27 18:21:30 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_L\METHODS\VL101619AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu Oct
QLast Update : Thu Oct 17 05:12:37 2019
Response via : Initial Calibration





#1

Bromochloromethane

Concen: 10.000 ppbv

RT: 5.69 min Scan# 902

Delta R.T. -0.00 min

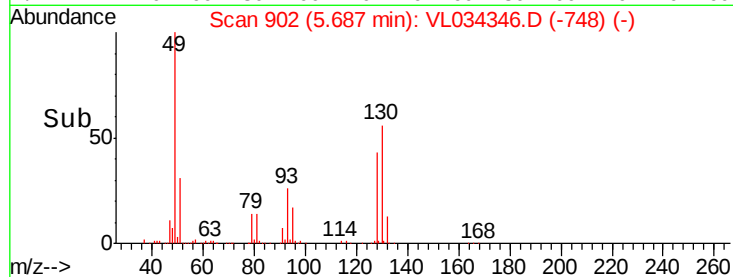
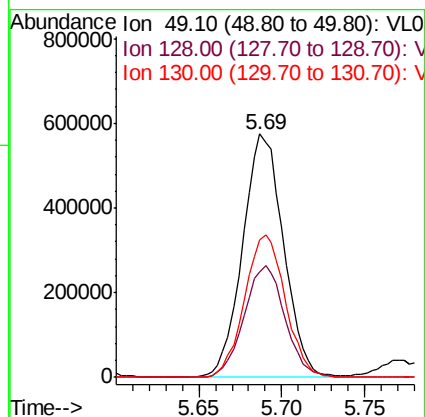
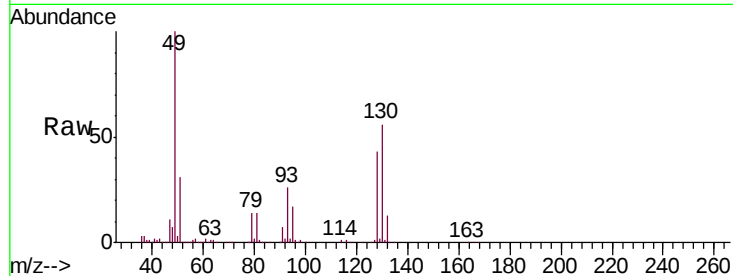
Lab File: VL034346.D

Acq: 24 Oct 2019 14:59

Instrument :
MSVOA_L
ClientSampled :
SV5

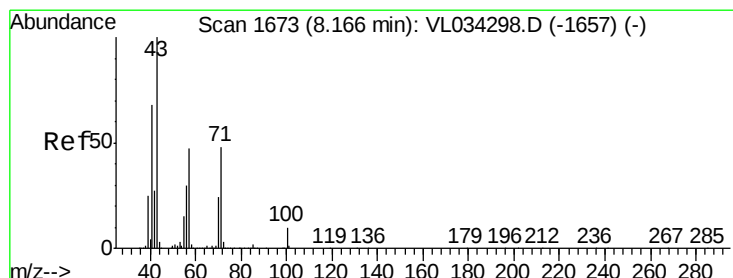
Tgt Ion:	49	Resp:	982680
Ion	Ratio	Lower	Upper
49	100		
128	46.2	20.6	61.8
130	58.9	26.2	78.5

Manual Integrations
APPROVED



MMDadoda

10/28/2019 9:43:12 AM



#10

Heptane

Concen: 0.146 ppbv

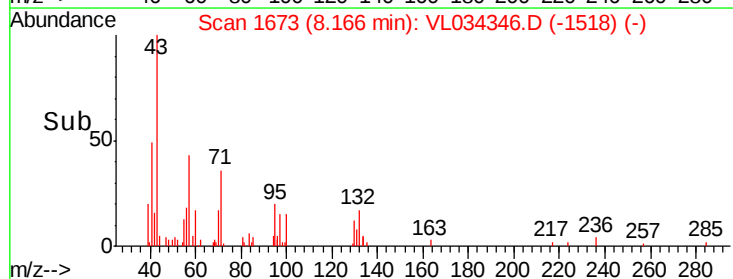
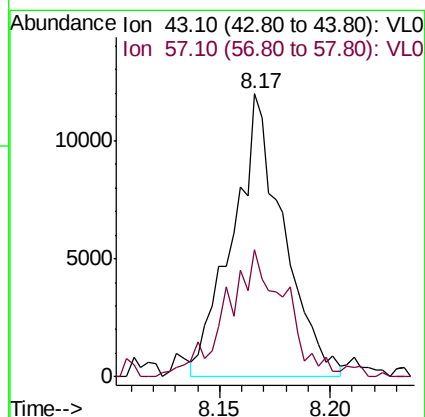
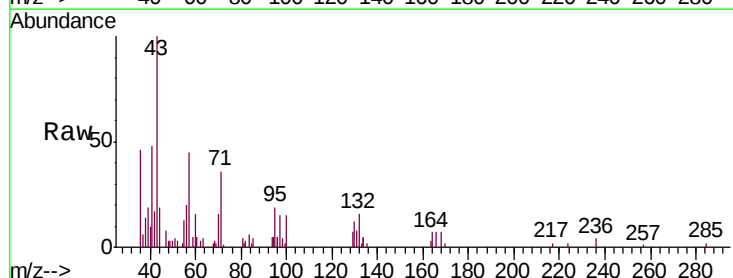
RT: 8.17 min Scan# 1673

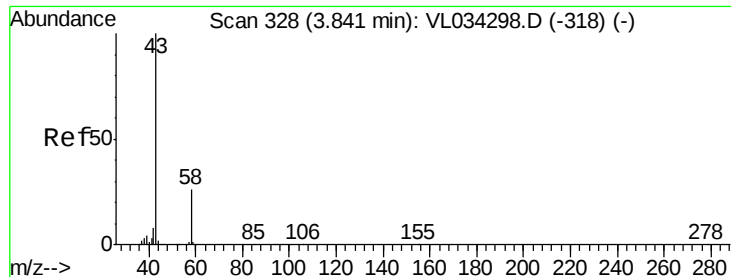
Delta R.T. -0.00 min

Lab File: VL034346.D

Acq: 24 Oct 2019 14:59

Tgt Ion:	43	Resp:	19117
Ion	Ratio	Lower	Upper
43	100		
57	0.0	39.5	59.3#



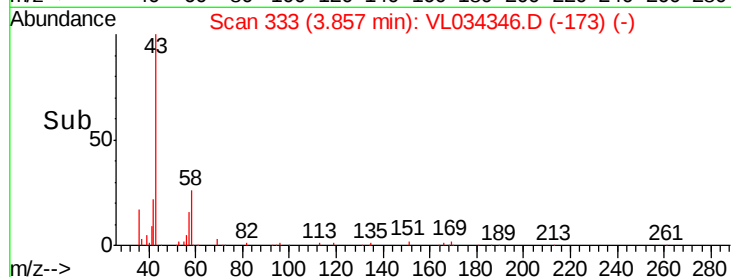
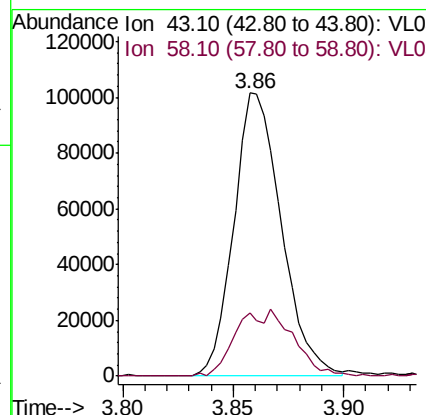
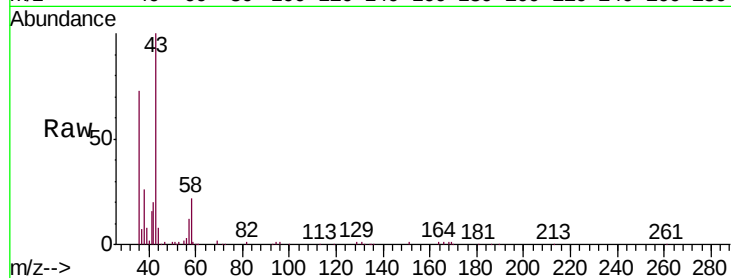


#15
Acetone
Concen: 1.084 ppbv
RT: 3.86 min Scan# 333
Delta R.T. 0.02 min
Lab File: VL034346.D
Acq: 24 Oct 2019 14:59

Instrument :
MSVOA_L
ClientSampled :
SV5

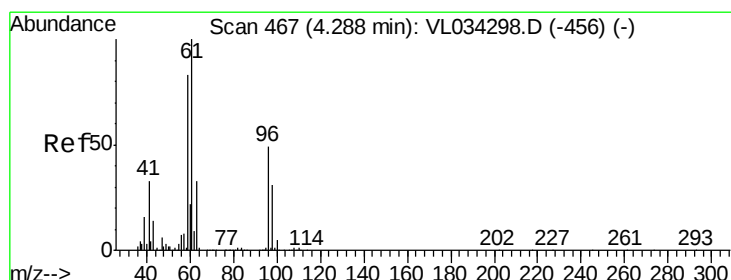
Tgt Ion: 43 Resp: 152350
Ion Ratio Lower Upper
43 100
58 28.2 20.4 30.6

Manual Integrations
APPROVED



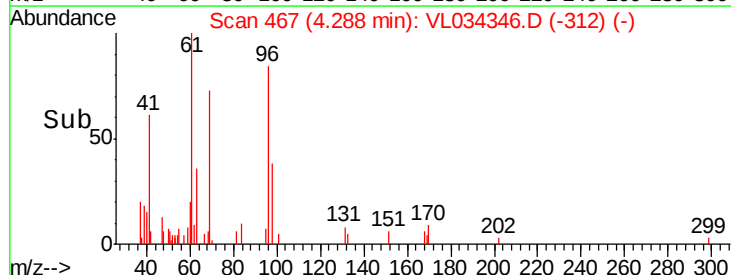
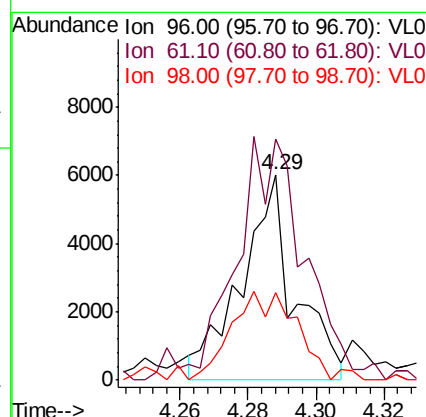
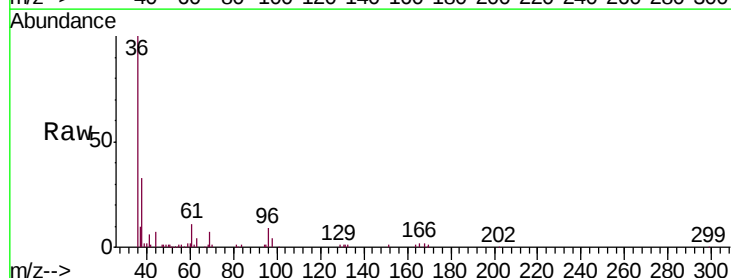
MMDadoda

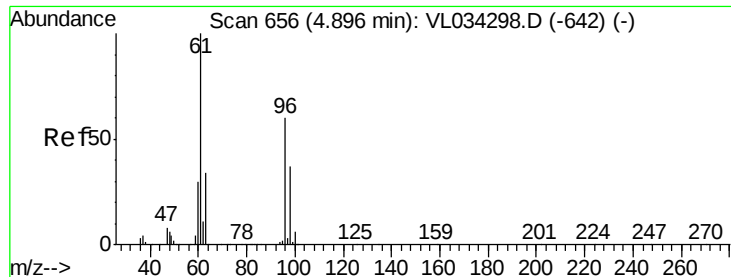
10/28/2019 9:43:12 AM



#18
1,1-Dichloroethene
Concen: 0.142 ppbv m
RT: 4.29 min Scan# 467
Delta R.T. -0.00 min
Lab File: VL034346.D
Acq: 24 Oct 2019 14:59

Tgt Ion: 96 Resp: 6541
Ion Ratio Lower Upper
96 100
61 117.3 164.5 246.7#
98 42.4 51.7 77.5#





#22

trans-1,2-Dichloroethene

Concen: 3.878 ppbv

RT: 4.89 min Scan# 654

Delta R.T. -0.01 min

Lab File: VL034346.D

Acq: 24 Oct 2019 14:59

Instrument :

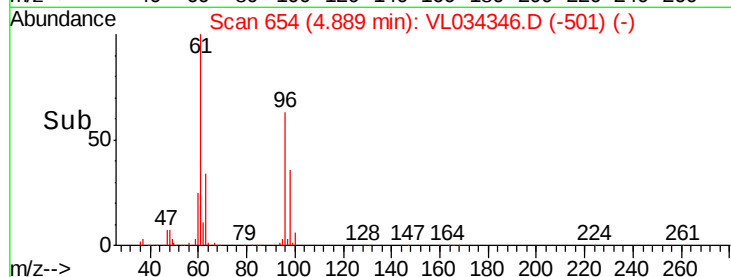
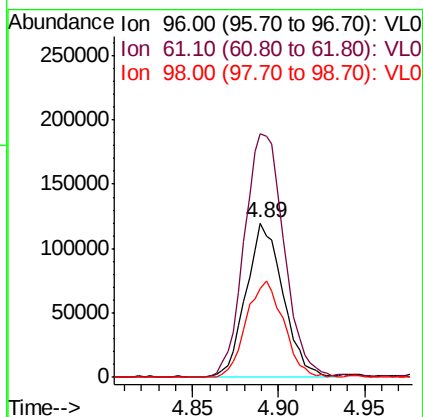
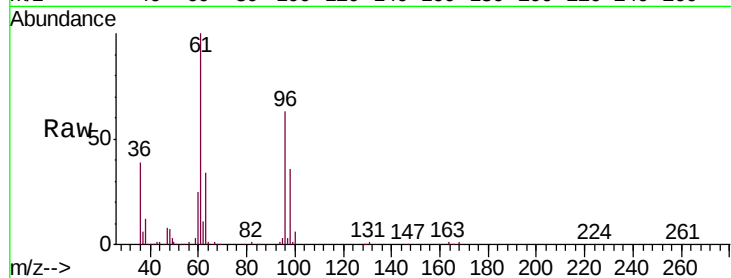
MSVOA_L

ClientSampled :

SV5

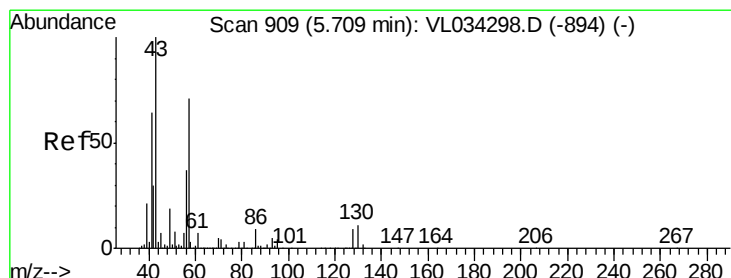
Tgt Ion:	96	Resp:	178480
Ion Ratio	Lower	Upper	
96	100		
61	158.5	133.8	200.6
98	57.0	49.4	74.0

Manual Integrations
APPROVED



MMDadoda

10/28/2019 9:43:12 AM



#26

Hexane

Concen: 0.527 ppbv

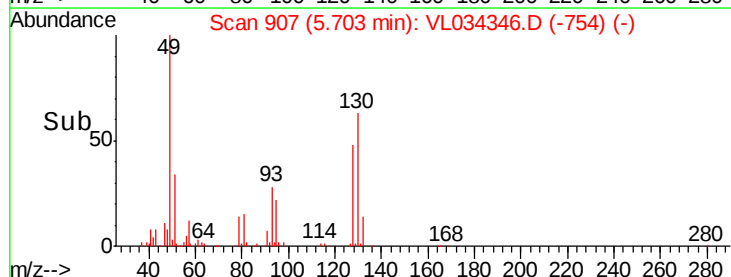
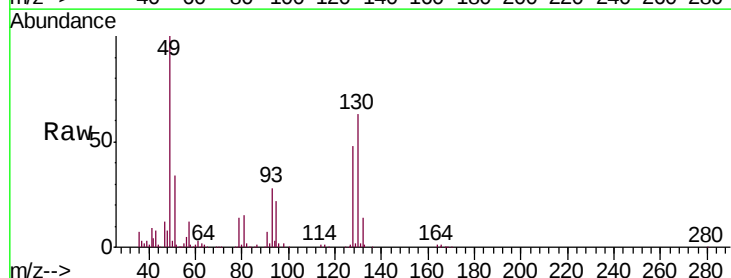
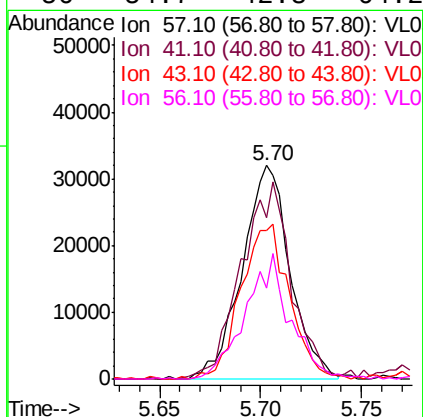
RT: 5.70 min Scan# 907

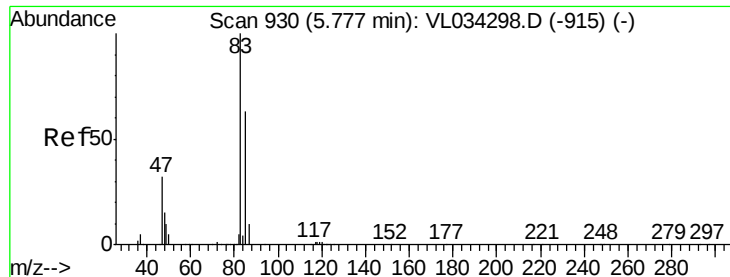
Delta R.T. -0.01 min

Lab File: VL034346.D

Acq: 24 Oct 2019 14:59

Tgt Ion:	57	Resp:	53266
Ion Ratio	Lower	Upper	
57	100		
41	96.7	76.5	114.7
43	75.7	188.5	282.7#
56	54.7	42.8	64.2



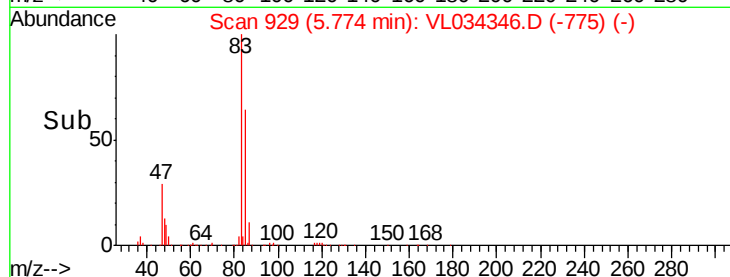
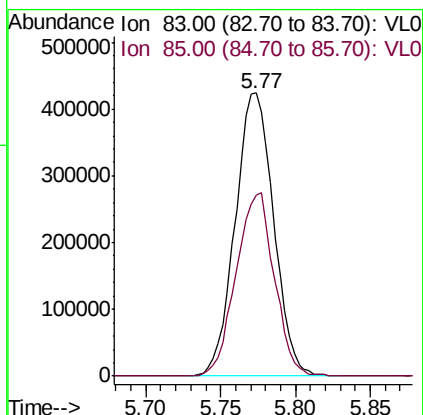
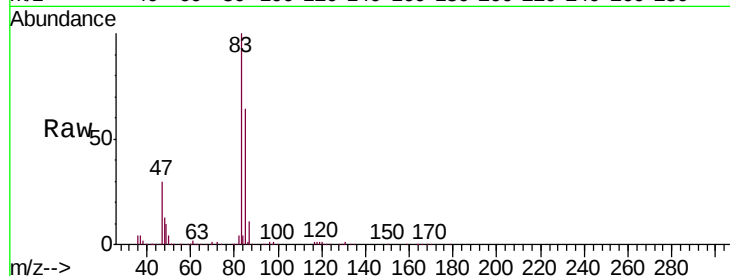


#29
Chloroform
Concen: 4.755 ppbv
RT: 5.77 min Scan# 929
Delta R.T. -0.00 min
Lab File: VL034346.D
Acq: 24 Oct 2019 14:59

Instrument :
MSVOA_L
ClientSampleId :
SV5

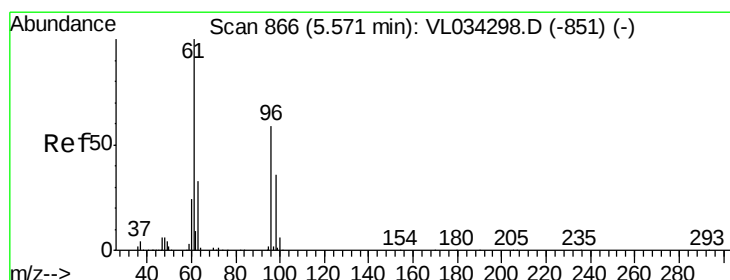
Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	50.5	75.7

Manual Integrations
APPROVED



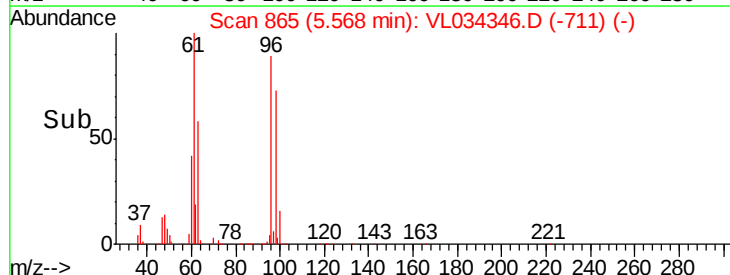
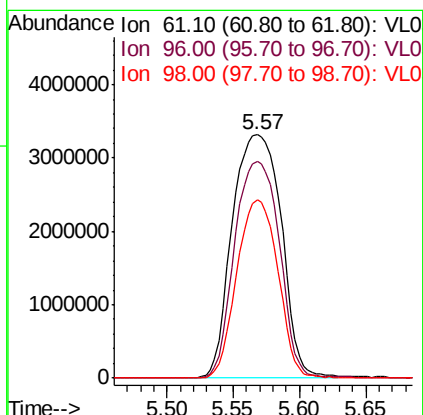
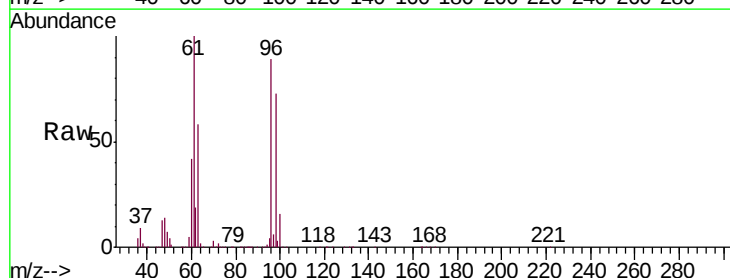
MMDadoda

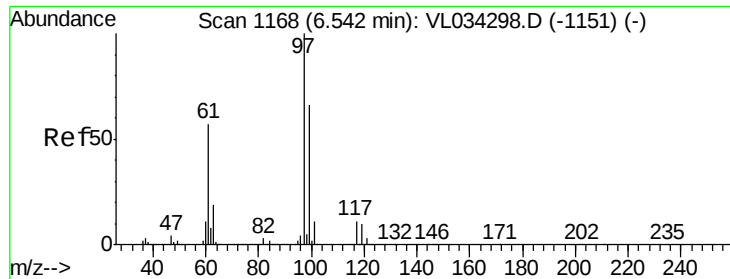
10/28/2019 9:43:12 AM



#31
cis-1,2-Dichloroethene
Concen: 83.247 ppbv
RT: 5.57 min Scan# 865
Delta R.T. -0.00 min
Lab File: VL034346.D
Acq: 24 Oct 2019 14:59

Tgt Ion	Ratio	Lower	Upper
61	100		
96	89.0	47.5	71.3#
98	73.0	28.8	43.2#





#32

1,1,1-Trichloroethane

Concen: 0.054 ppbv m

RT: 6.54 min Scan# 1167

Delta R.T. -0.00 min

Lab File: VL034346.D

Acq: 24 Oct 2019 14:59

Instrument :

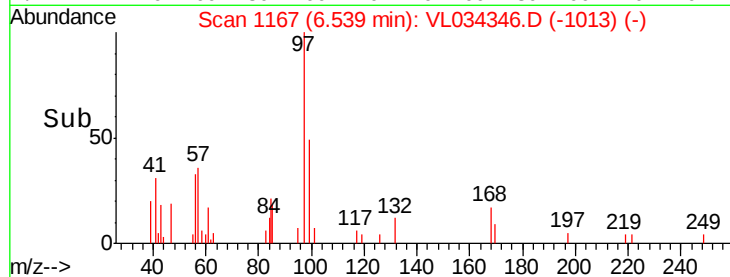
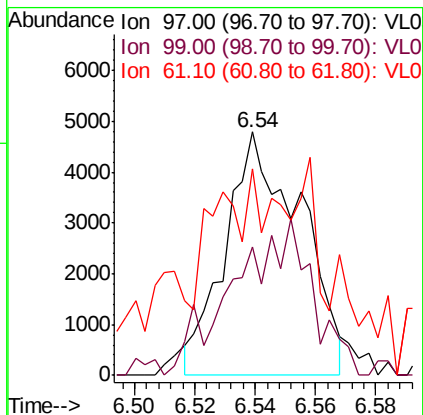
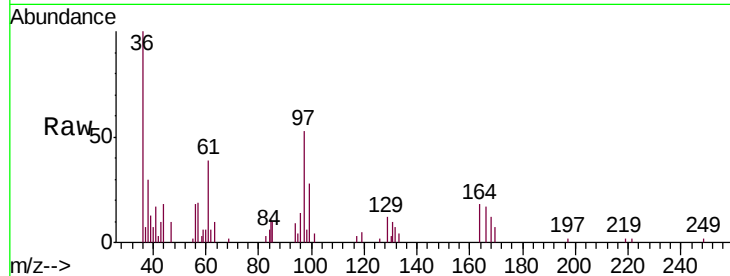
MSVOA_L

ClientSampled :

SV5

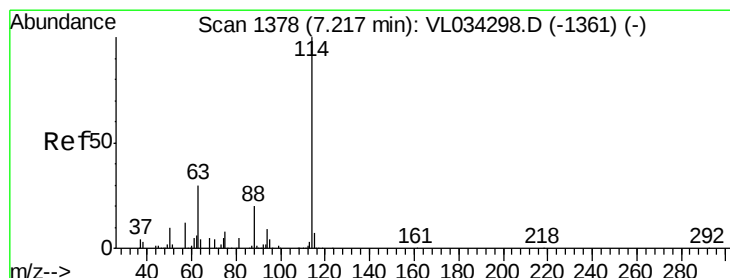
Tgt Ion:	97	Resp:	8348
Ion Ratio	Lower	Upper	
97	100		
99	0.0	52.6	78.8#
61	0.0	44.5	66.7#

Manual Integrations
APPROVED



MMDadoda

10/28/2019 9:43:12 AM



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

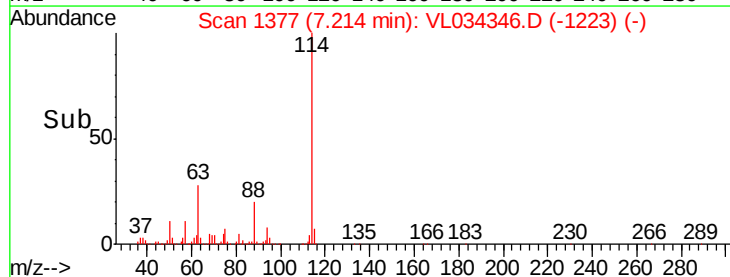
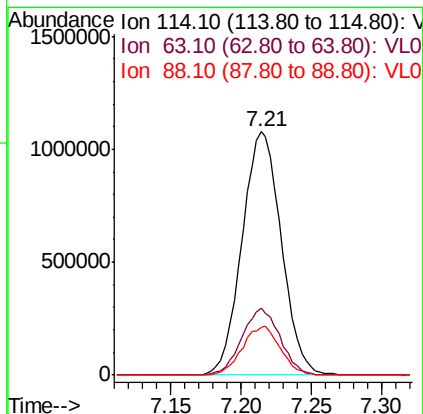
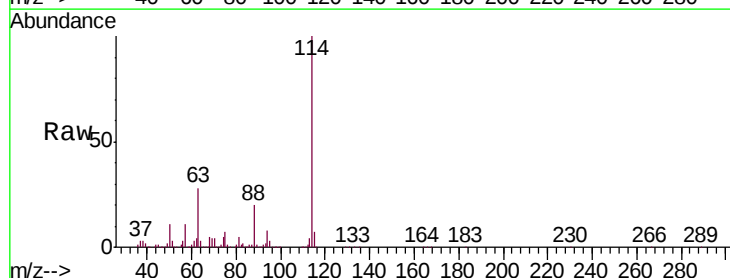
RT: 7.21 min Scan# 1377

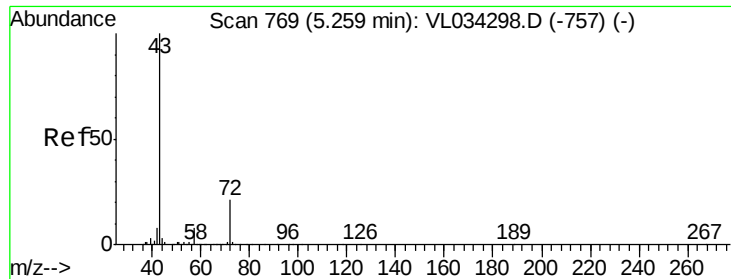
Delta R.T. -0.00 min

Lab File: VL034346.D

Acq: 24 Oct 2019 14:59

Tgt Ion:	114	Resp:	2100609
Ion Ratio	Lower	Upper	
114	100		
63	26.8	25.2	37.8
88	19.6	16.0	24.0



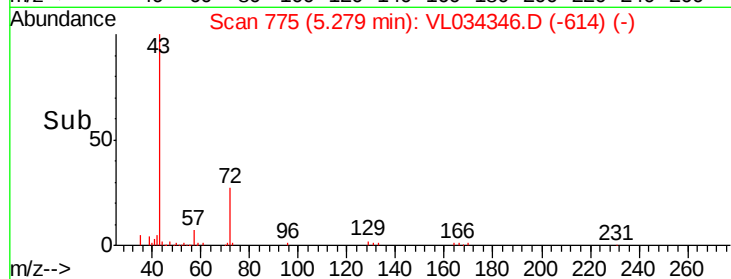
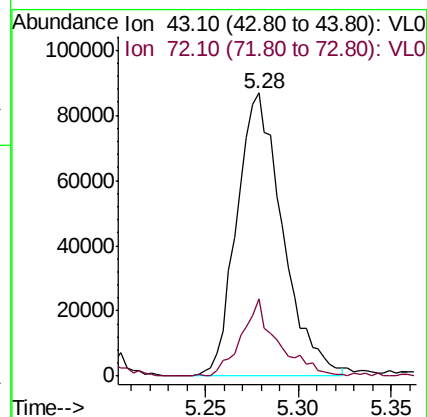
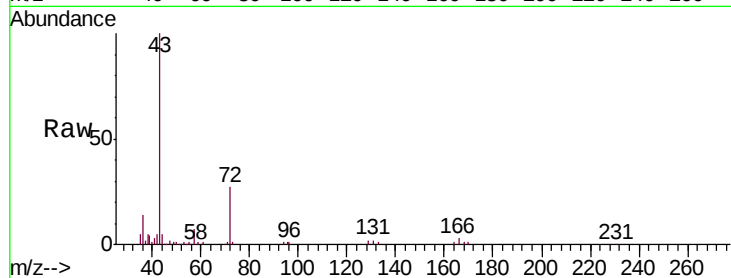


#34
2-Butanone
Concen: 0.867 ppbv
RT: 5.28 min Scan# 775
Delta R.T. 0.02 min
Lab File: VL034346.D
Acq: 24 Oct 2019 14:59

Instrument :
MSVOA_L
ClientSampled :
SV5

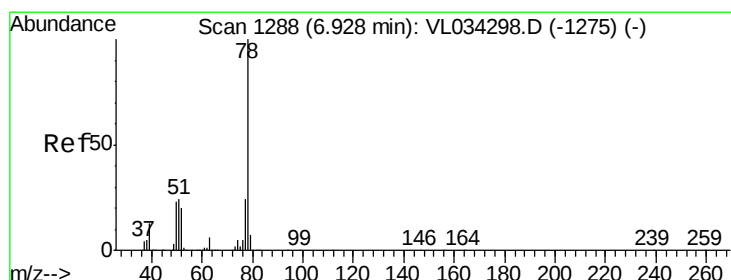
Tgt Ion	Ratio	Lower	Upper
43	100		
72	22.7	16.3	24.5

Manual Integrations
APPROVED



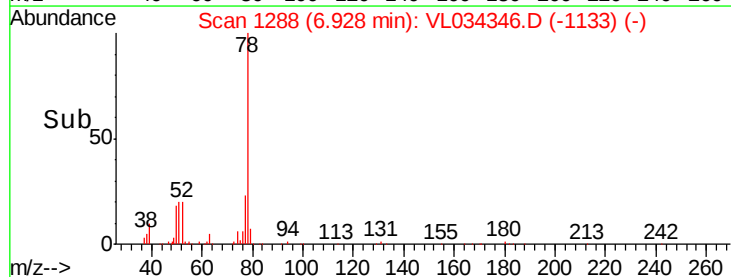
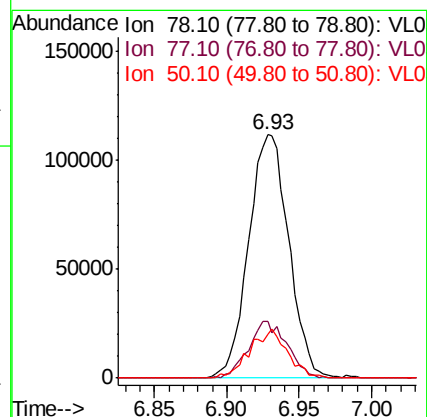
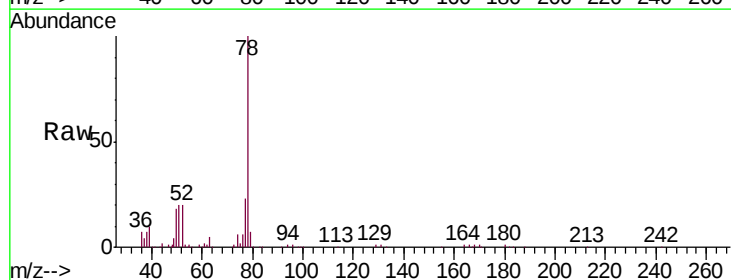
MMDadoda

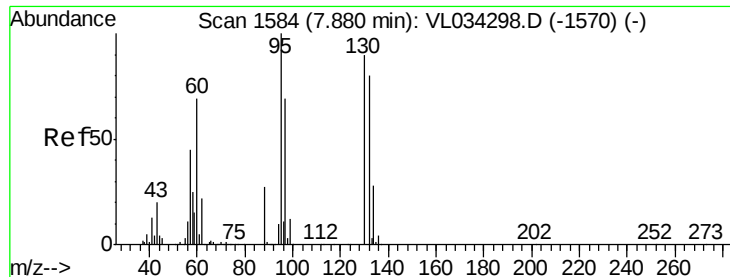
10/28/2019 9:43:12 AM



#36
Benzene
Concen: 1.067 ppbv
RT: 6.93 min Scan# 1288
Delta R.T. -0.00 min
Lab File: VL034346.D
Acq: 24 Oct 2019 14:59

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.1	19.0	28.4
50	18.0	18.6	27.8#



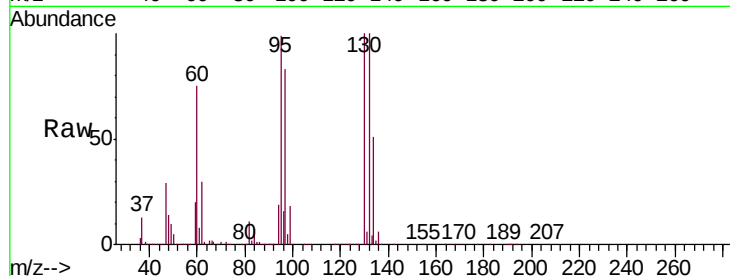


#38
 Trichloroethene
 Concen: 105.957 ppbv
 RT: 7.89 min Scan# 1586
 Delta R.T. 0.01 min
 Lab File: VL034346.D
 Acq: 24 Oct 2019 14:59

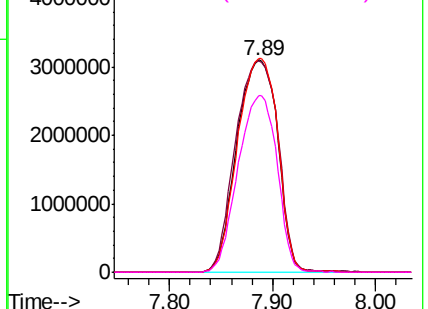
Instrument :
 MSVOA_L
 ClientSampleId :
 SV5

Tgt Ion:130 Resp: 8569532
 Ion Ratio Lower Upper
 130 100
 95 99.3 88.6 132.8
 132 100.5 71.2 106.8
 97 83.2 61.0 91.4

Manual Integrations
 APPROVED

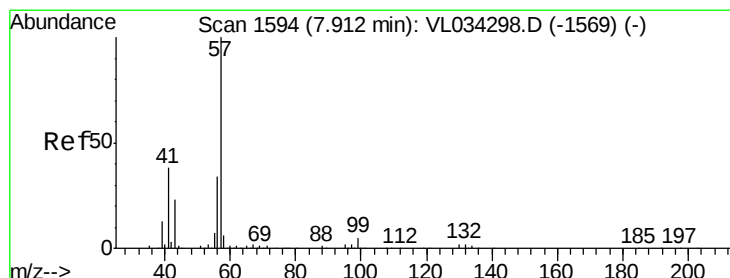
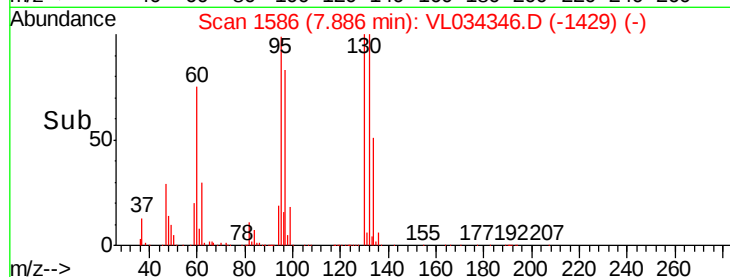


Abundance Ion 130.00 (129.70 to 130.70): V
 Ion 95.00 (94.70 to 95.70): VL0
 Ion 132.00 (131.70 to 132.70): V
 Ion 97.00 (96.70 to 97.70): VL0



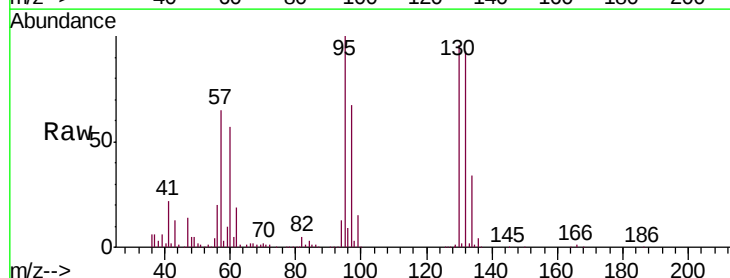
MMDadoda

10/28/2019 9:43:12 AM

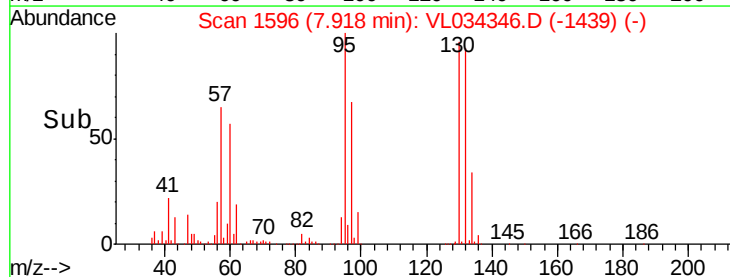
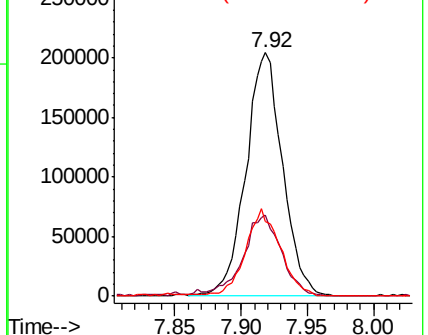


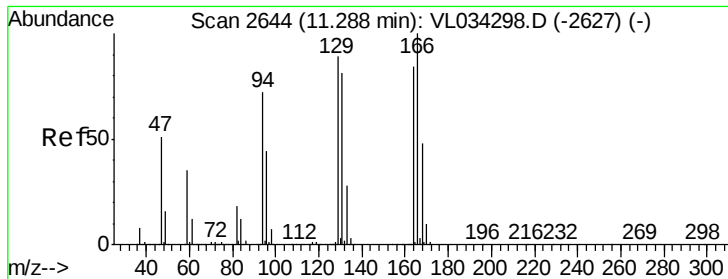
#44
 2,2,4-Trimethylpentane
 Concen: 1.044 ppbv
 RT: 7.92 min Scan# 1596
 Delta R.T. 0.01 min
 Lab File: VL034346.D
 Acq: 24 Oct 2019 14:59

Tgt Ion: 57 Resp: 389602
 Ion Ratio Lower Upper
 57 100
 41 36.7 29.3 43.9
 56 35.4 25.3 37.9



Abundance Ion 57.10 (56.80 to 57.80): VL0
 Ion 41.10 (40.80 to 41.80): VL0
 Ion 56.10 (55.80 to 56.80): VL0



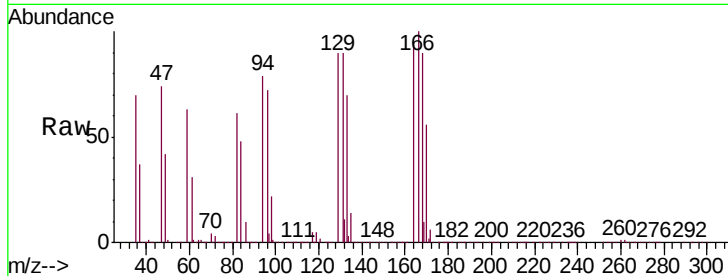


#52
Tetrachloroethene
Concen: 985.448 ppbv m
RT: 11.44 min Scan# 2691
Delta R.T. 0.15 min
Lab File: VL034346.D
Acq: 24 Oct 2019 14:59

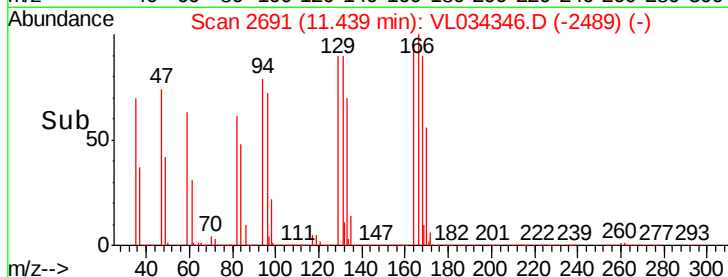
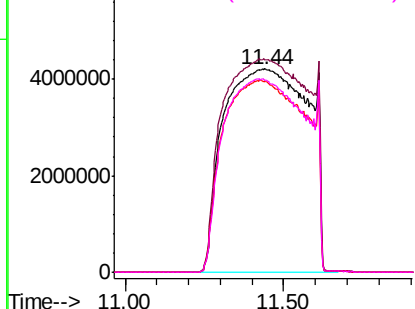
Instrument :
MSVOA_L
ClientSampleId :
SV5

Tgt Ion:164 Resp:77851881
Ion Ratio Lower Upper
164 100
166 104.7 95.3 142.9
129 93.9 84.5 126.7
131 94.5 77.3 115.9

Manual Integrations
APPROVED

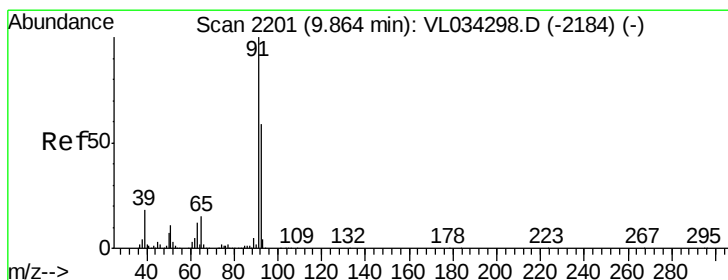


Abundance Ion 163.90 (163.60 to 164.60): V
Ion 165.90 (165.60 to 166.60): V
Ion 129.00 (128.70 to 129.70): V
Ion 131.00 (130.70 to 131.70): V



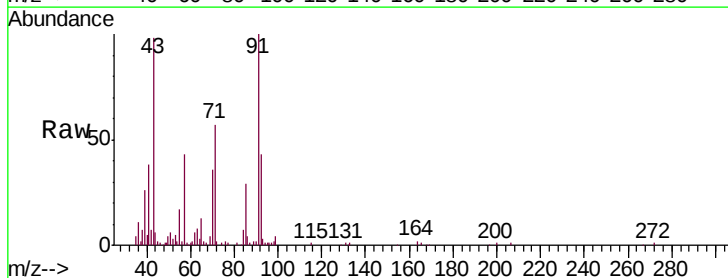
MMDadoda

10/28/2019 9:43:12 AM

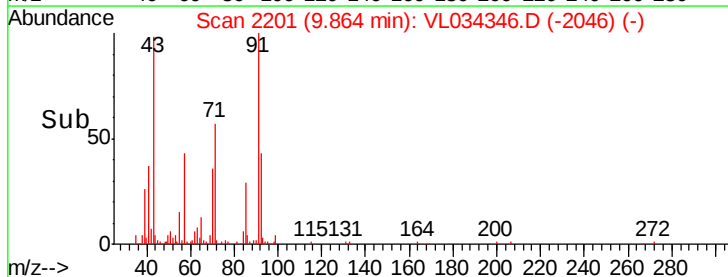
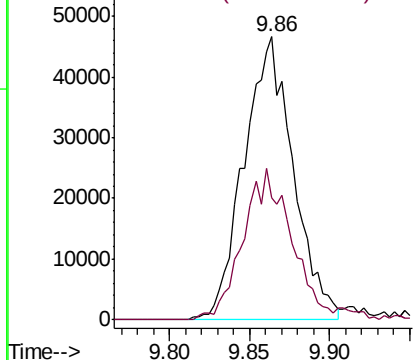


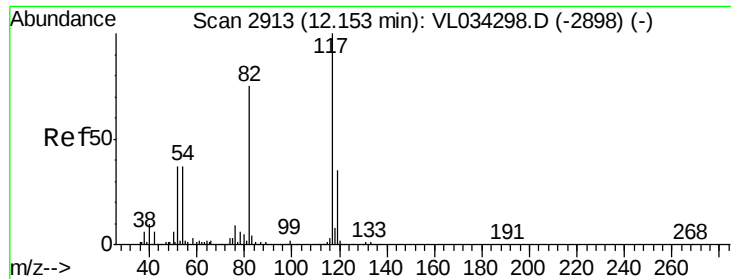
#53
Toluene
Concen: 0.443 ppbv
RT: 9.86 min Scan# 2201
Delta R.T. -0.00 min
Lab File: VL034346.D
Acq: 24 Oct 2019 14:59

Tgt Ion: 91 Resp: 98463
Ion Ratio Lower Upper
91 100
92 54.3 48.4 72.6



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 92.10 (91.80 to 92.80): VL0



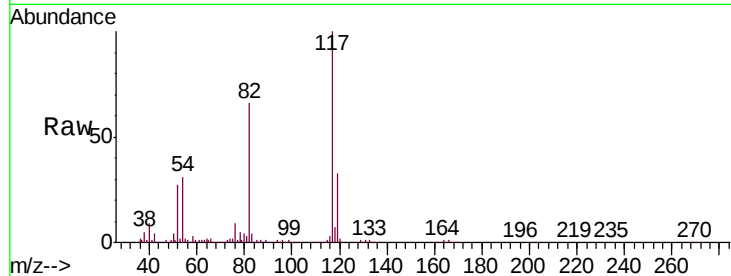


#55
Chlorobenzene-d5
Concen: 10.000 ppbv m
RT: 12.24 min Scan# 2941
Delta R.T. 0.09 min
Lab File: VL034346.D
Acq: 24 Oct 2019 14:59

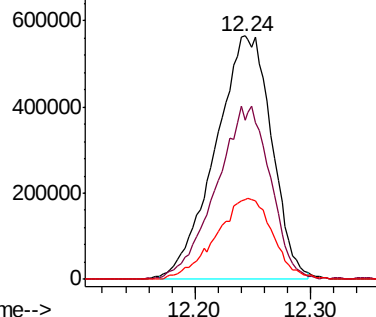
Instrument :
MSVOA_L
ClientSampleId :
SV5

Tgt Ion	Ratio	Lower	Upper
117	100		
82	68.4	55.5	83.3
119	33.8	26.5	39.7

Manual Integrations
APPROVED

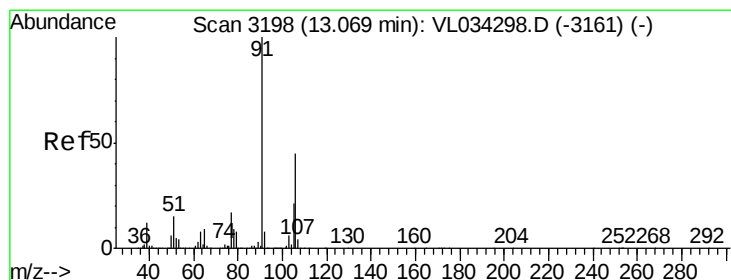
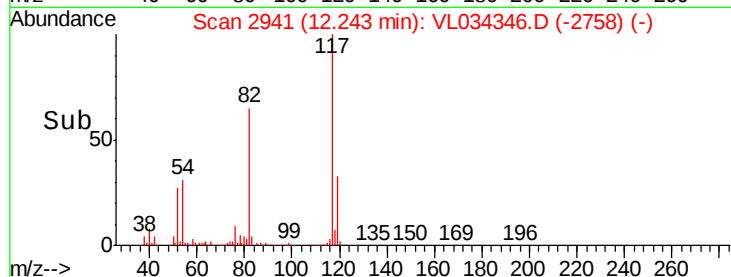


Abundance Ion 117.10 (116.80 to 117.80): V
Ion 82.10 (81.80 to 82.80): VL0
Ion 119.10 (118.80 to 119.80): V



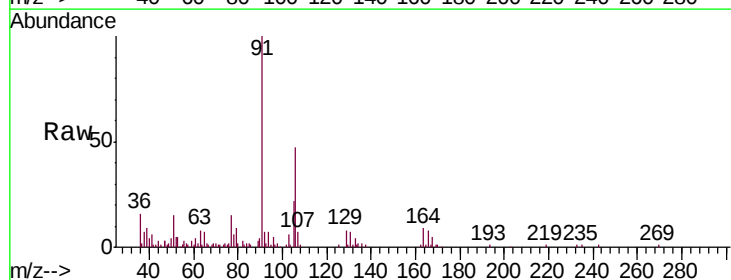
MMDadoda

10/28/2019 9:43:12 AM

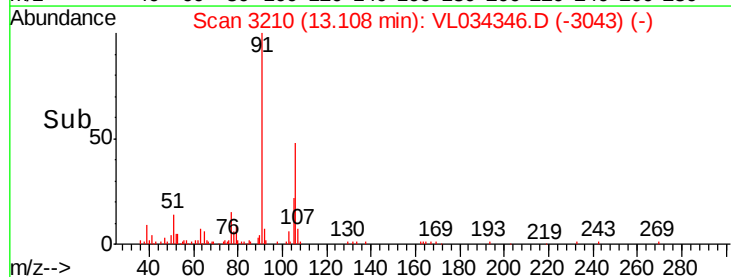
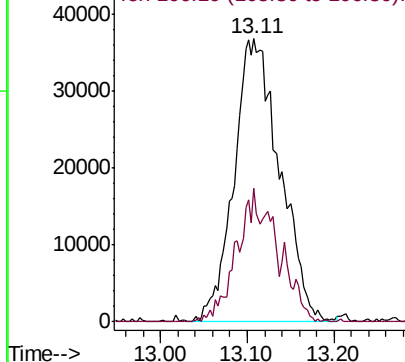


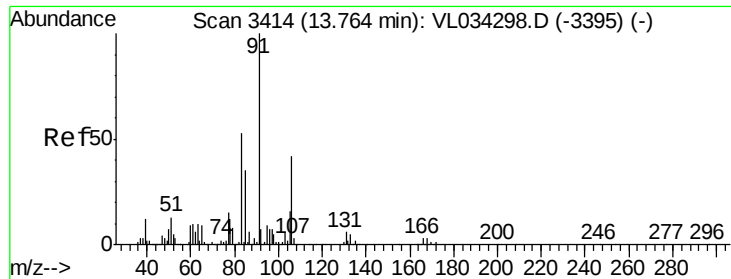
#59
m/p-Xylene
Concen: 0.586 ppbv m
RT: 13.11 min Scan# 3210
Delta R.T. 0.04 min
Lab File: VL034346.D
Acq: 24 Oct 2019 14:59

Tgt Ion	Ratio	Lower	Upper
91	100		
106	0.0	35.4	53.2#



Abundance Ion 91.10 (90.80 to 91.80): VL0
Ion 106.10 (105.80 to 106.80): V



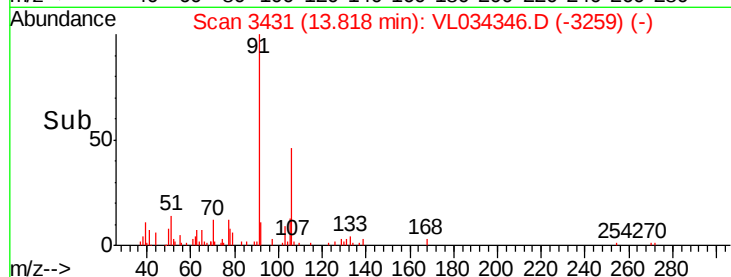
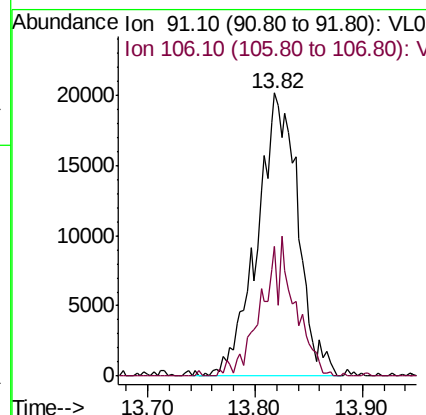
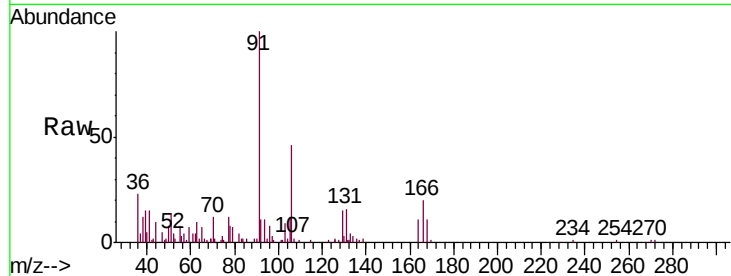


#60
o-Xylene
Concen: 0.230 ppbv m
RT: 13.82 min Scan# 3431
Delta R.T. 0.05 min
Lab File: VL034346.D
Acq: 24 Oct 2019 14:59

Instrument :
MSVOA_L
ClientSampled :
SV5

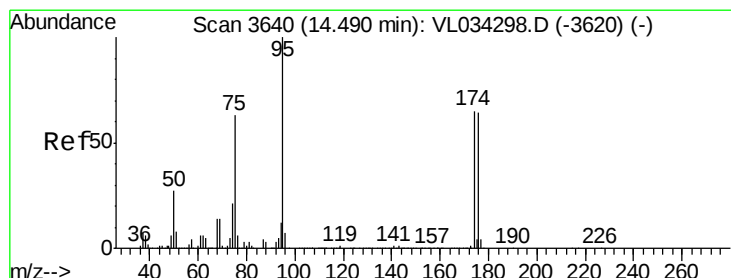
Tgt Ion: 91 Resp: 53092
Ion Ratio Lower Upper
91 100
106 0.0 21.6 64.6#

Manual Integrations
APPROVED



MMDadoda

10/28/2019 9:43:12 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 9.362 ppbv
RT: 14.54 min Scan# 3655
Delta R.T. 0.05 min
Lab File: VL034346.D
Acq: 24 Oct 2019 14:59

Tgt Ion: 95 Resp: 1516631
Ion Ratio Lower Upper
95 100
174 71.4 52.6 78.8
175 5.1 3.8 5.6

