

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033638.D
 Acq On : 2 May 2019 21:45
 Operator : SY/AP
 Sample : K2628-07
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-7

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:18:45 AM

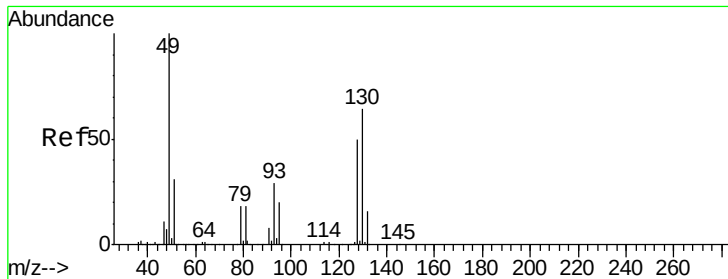
Quant Time: May 03 04:35:42 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May 03 04:35:42 2019
 QLast Update : Thu May 02 06:29:02 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.76	49	881326	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2099607	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.23	117	2078611	10.00	ppbv	0.00

System Monitoring Compounds						
68) 1-Bromo-4-Fluorobenzene	14.57	95	1736219	10.97	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	109.70%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.08	85	83863	0.631	ppbv	91
3) Chlorodifluoromethane	3.01	51	32940m	0.313	ppbv	
4) Chloromethane	3.17	50	31686	0.552	ppbv	93
11) Trichlorofluoromethane	4.00	101	47917	0.304	ppbv	91
13) Ethanol	3.65	45	1872833	136.901	ppbv	99
15) Acetone	3.90	43	343245	3.199	ppbv	99
19) Isopropyl Alcohol	4.03	45	330573	4.489	ppbv #	95
20) Methylene Chloride	4.41	84	32973	0.789	ppbv	97
26) Hexane	5.78	57	53903	0.629	ppbv #	38
34) 2-Butanone	5.33	43	17133	0.133	ppbv	97
35) Carbon Tetrachloride	7.13	117	10522m	0.063	ppbv	
53) Toluene	9.94	91	106009	0.470	ppbv	98

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



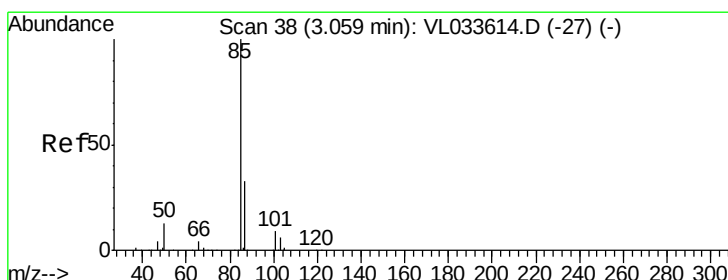
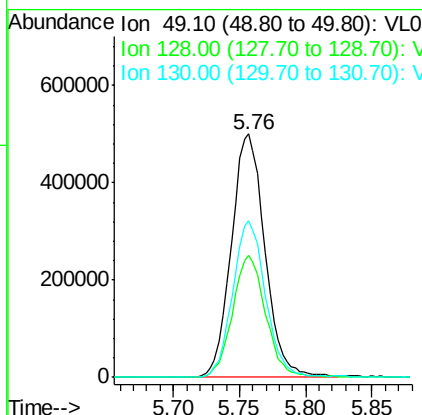
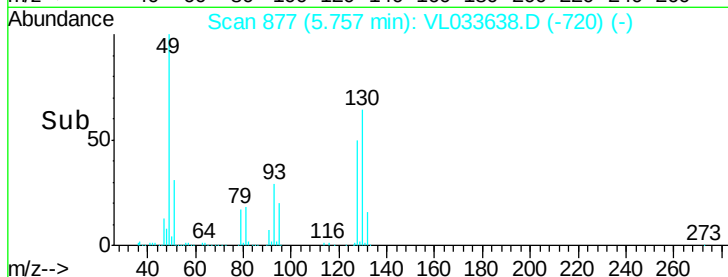
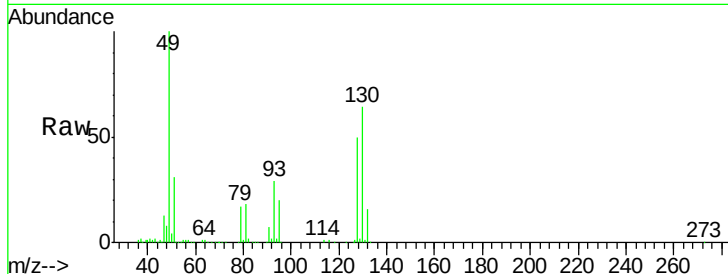
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 877
 Delta R.T. 0.00 min
 Lab File: VL033638.D
 Acq: 2 May 2019 21:45

Instrument :
 MSVOA_L
 ClientSampleId :
 A-7

Tot Ion:	49	Resp:	881326
Ion Ratio	Lower	Upper	
49	100		
128	49.6	25.0	75.0
130	63.1	31.9	95.9

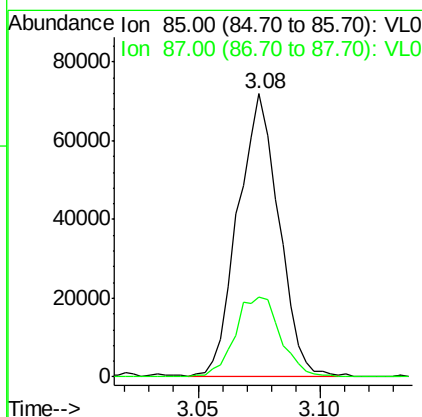
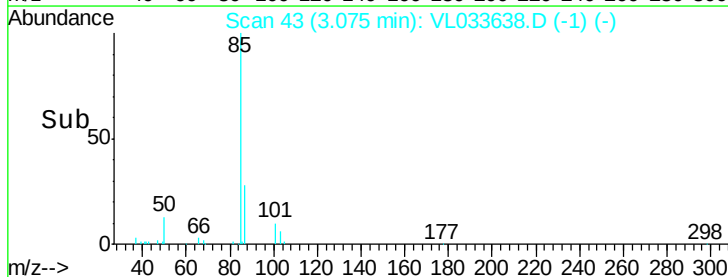
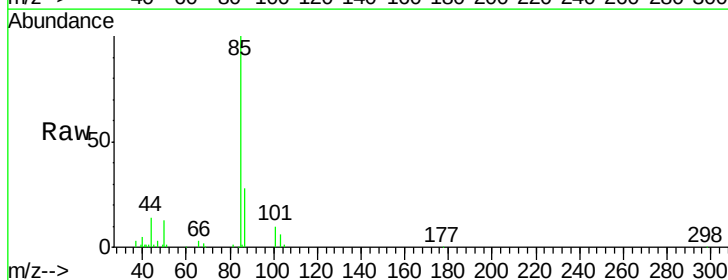
Manual Integrations
 APPROVED

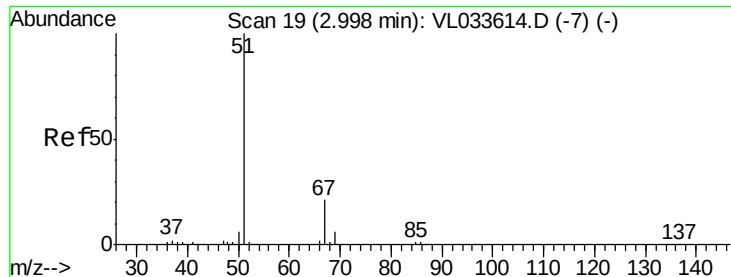
MMDadoda
 5/4/2019 7:18:45 AM



#2
 Dichlorodifluoromethane
 Concen: 0.631 ppbv
 RT: 3.08 min Scan# 43
 Delta R.T. 0.02 min
 Lab File: VL033638.D
 Acq: 2 May 2019 21:45

Tgt Ion:	85	Resp:	83863
Ion Ratio	Lower	Upper	
85	100		
87	28.4	26.8	40.2





#3

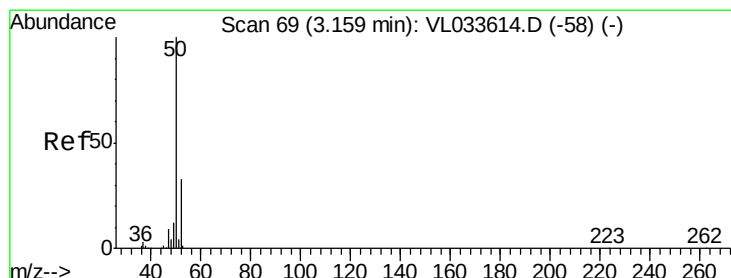
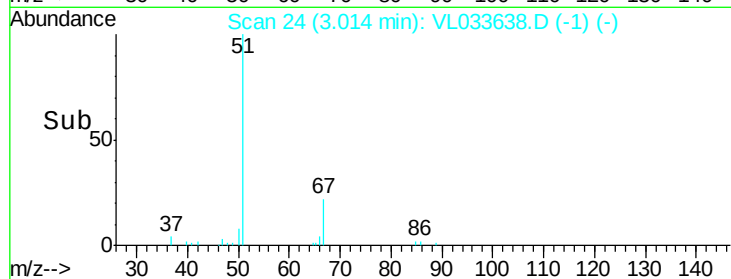
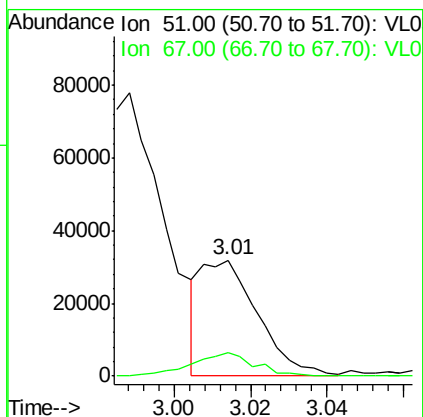
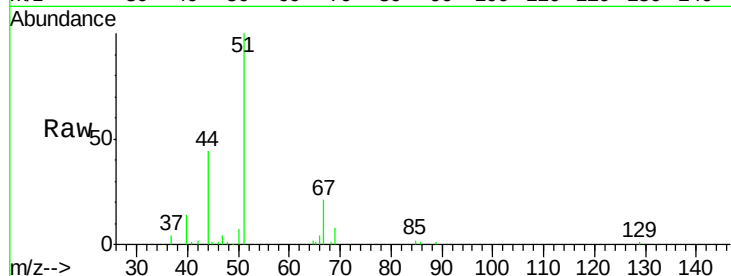
Chlorodifluoromethane
Concen: 0.313 ppbv
RT: 3.01 min Scan# 24
Delta R.T. 0.02 min
Lab File: VL033638.D
Acq: 2 May 2019 21:45

Instrument :
MSVOA_L
ClientSampled :
A-7

Tot Ion	51	Resp	32940
Ion Ratio	100	Lower	Upper
51	100		
67	22.1	15.6	23.4

Manual Integrations
APPROVED

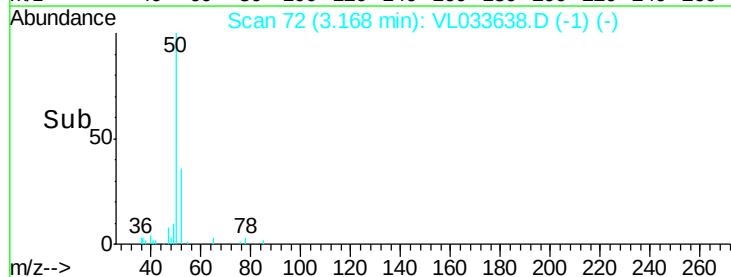
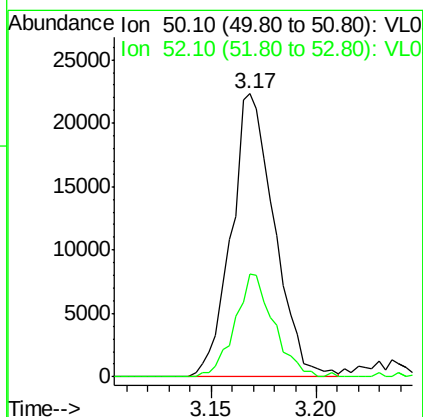
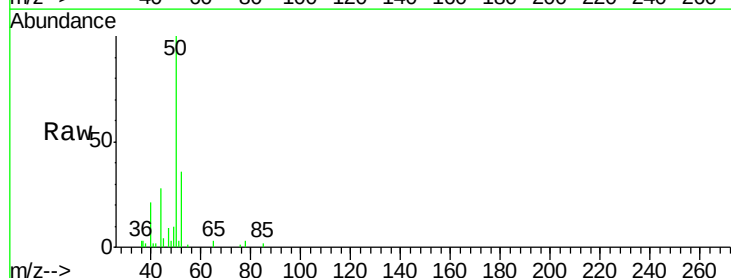
MMDadoda
5/4/2019 7:18:45 AM

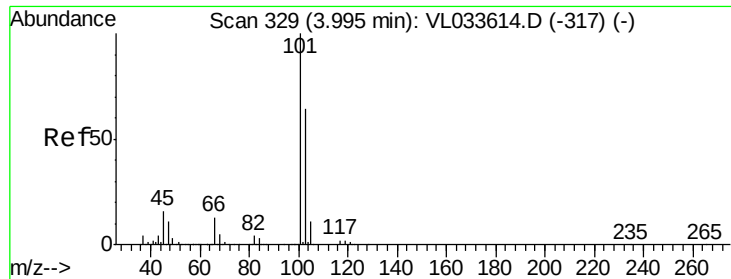


#4

Chloromethane
Concen: 0.552 ppbv
RT: 3.17 min Scan# 72
Delta R.T. 0.01 min
Lab File: VL033638.D
Acq: 2 May 2019 21:45

Tgt Ion	50	Resp	31686
Ion Ratio	100	Lower	Upper
50	100		
52	36.5	26.0	39.0





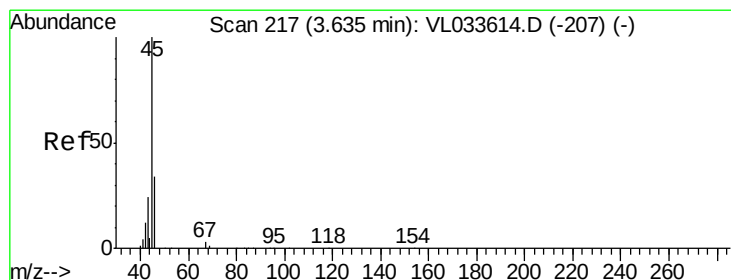
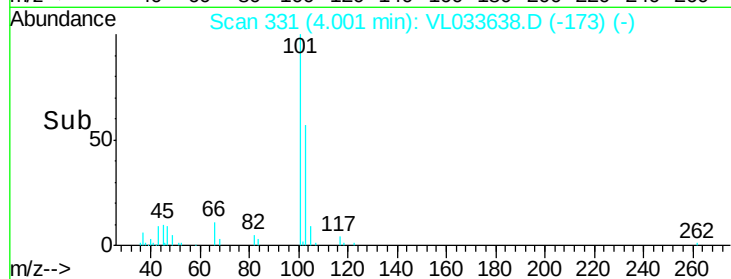
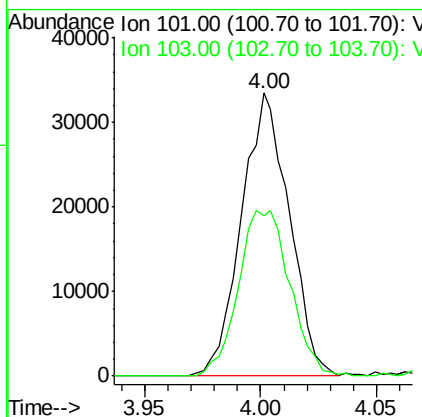
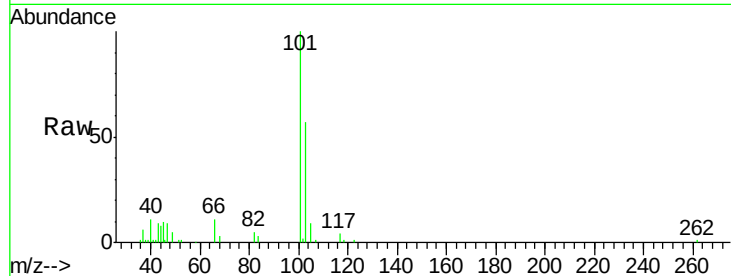
#11
Trichlorofluoromethane
Concen: 0.304 ppbv
RT: 4.00 min Scan# 331
Delta R.T. 0.01 min
Lab File: VL033638.D
Acq: 2 May 2019 21:45

Instrument :
MSVOA_L
ClientSampleId :
A-7

Tot Ion	Ratio	Lower	Upper
101	100		
103	56.9	51.2	76.8

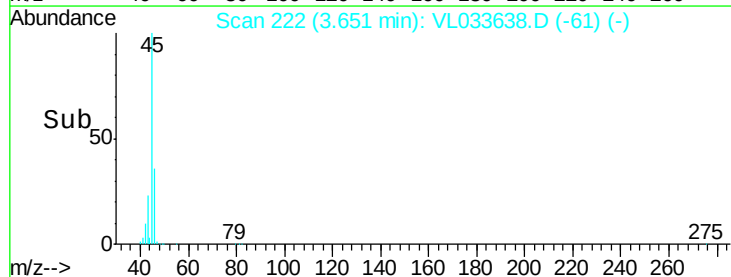
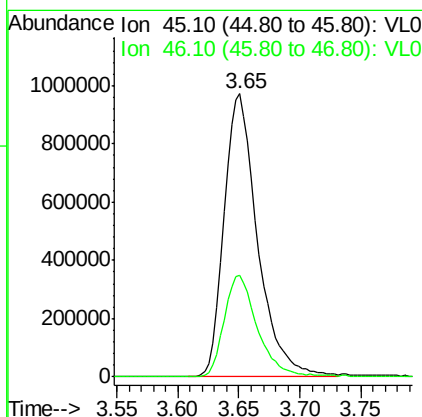
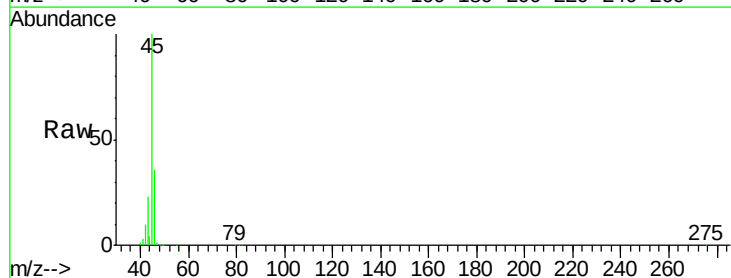
Manual Integrations
APPROVED

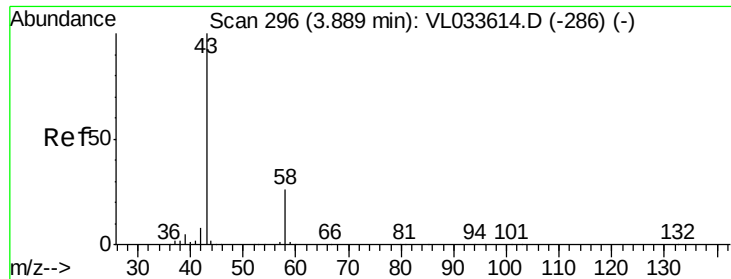
MMDadoda
5/4/2019 7:18:45 AM



#13
Ethanol
Concen: 136.901 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.02 min
Lab File: VL033638.D
Acq: 2 May 2019 21:45

Tgt Ion	Ratio	Lower	Upper
45	100		
46	35.9	14.6	58.2





#15

Acetone

Concen: 3.199 ppbv

RT: 3.90 min Scan# 300

Delta R.T. 0.01 min

Lab File: VL033638.D

Acq: 2 May 2019 21:45

Instrument :

MSVOA_L

ClientSampled :

A-7

Tot Ion: 43 Resp: 343245

Ion Ratio Lower Upper

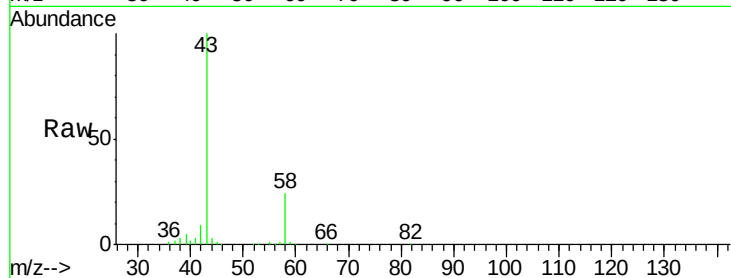
43 100

58 26.8 21.2 31.8

Manual Integrations
APPROVED

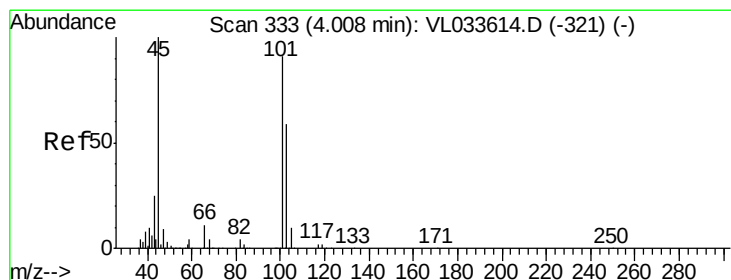
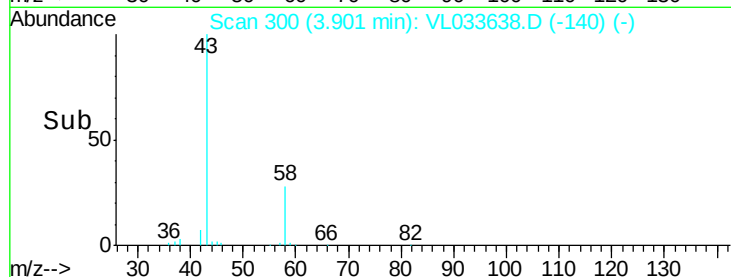
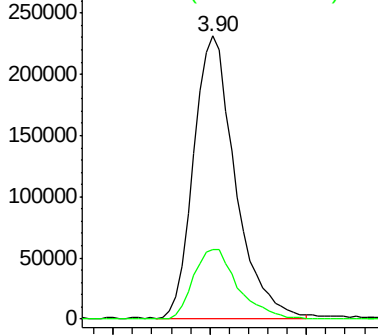
MMDadoda

5/4/2019 7:18:45 AM



Abundance Ion 43.10 (42.80 to 43.80): VL0

Ion 58.10 (57.80 to 58.80): VL0



#19

Isopropyl Alcohol

Concen: 4.489 ppbv

RT: 4.03 min Scan# 340

Delta R.T. 0.02 min

Lab File: VL033638.D

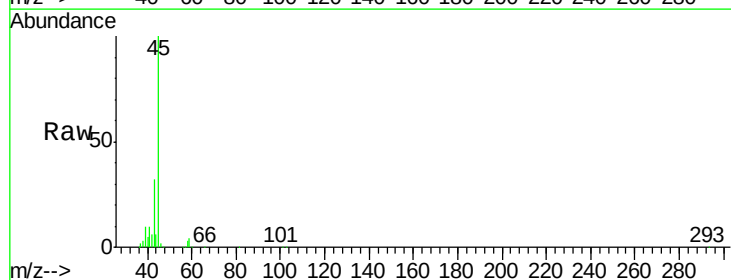
Acq: 2 May 2019 21:45

Tgt Ion: 45 Resp: 330573

Ion Ratio Lower Upper

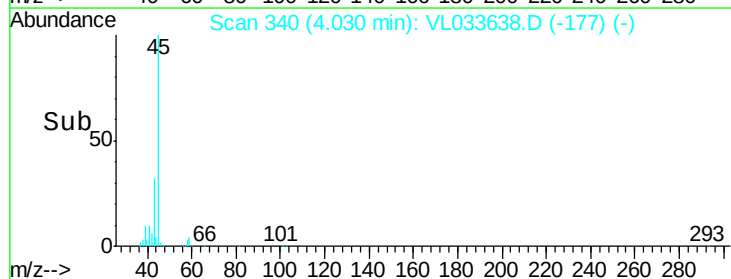
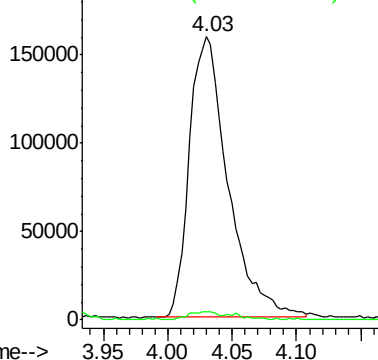
45 100

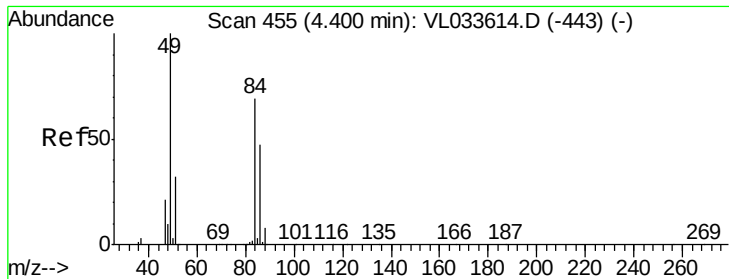
58 3.9 1.8 2.6#



Abundance Ion 45.10 (44.80 to 45.80): VL0

Ion 58.10 (57.80 to 58.80): VL0





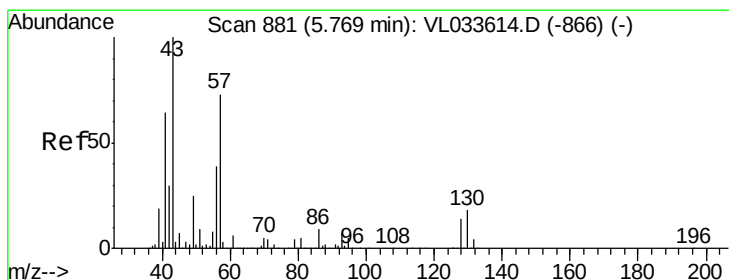
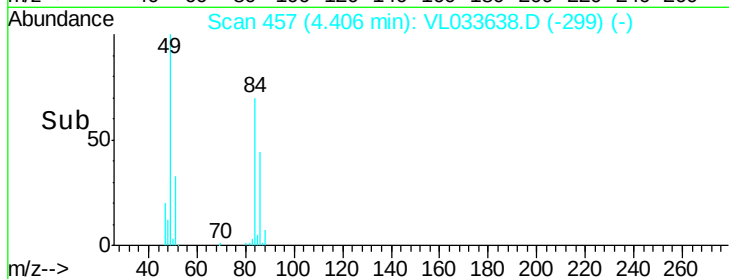
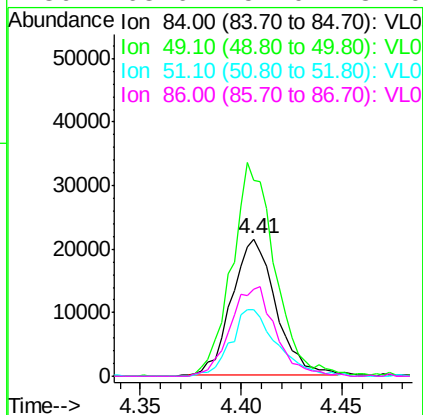
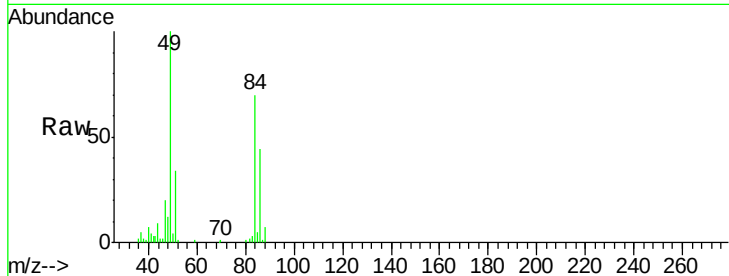
#20
Methvlene Chloride
Concen: 0.789 ppbv
RT: 4.41 min Scan# 457
Delta R.T. 0.01 min
Lab File: VL033638.D
Acq: 2 May 2019 21:45

Instrument :
MSVOA_L
ClientSampled :
A-7

Tot Ion:	84	Resp:	32973
Ion	Ratio	Lower	Upper
84	100		
49	144.1	116.2	174.2
51	49.3	37.0	55.6
86	63.6	54.0	81.0

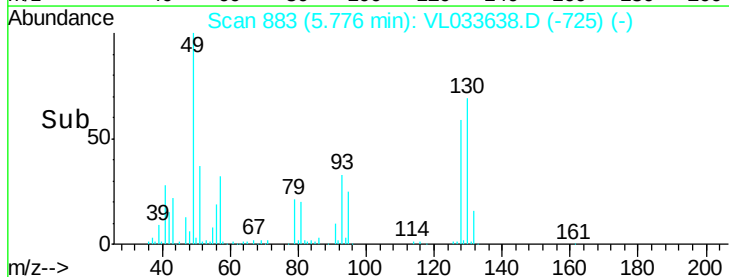
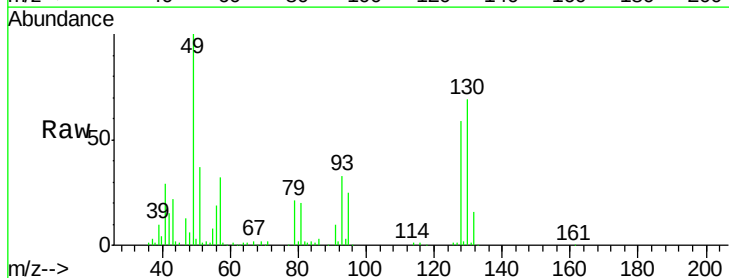
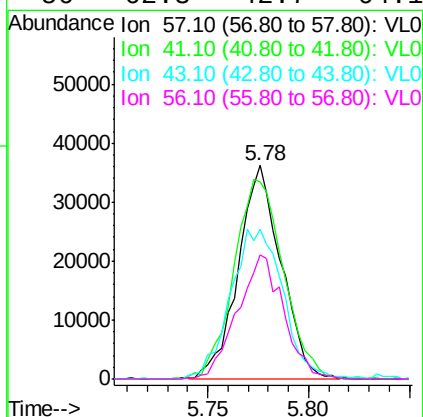
Manual Integrations
APPROVED

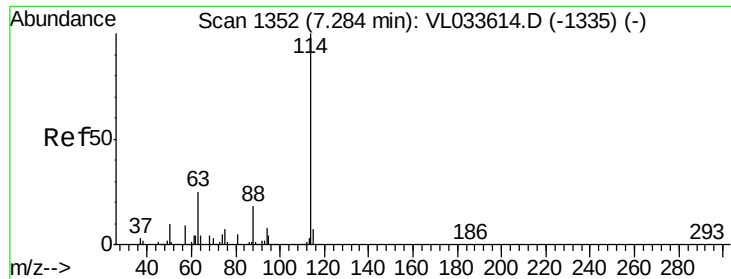
MMDadoda
5/4/2019 7:18:45 AM



#26
Hexane
Concen: 0.629 ppbv
RT: 5.78 min Scan# 883
Delta R.T. 0.01 min
Lab File: VL033638.D
Acq: 2 May 2019 21:45

Tgt Ion:	57	Resp:	53903
Ion	Ratio	Lower	Upper
57	100		
41	108.3	70.6	106.0#
43	86.0	186.0	279.0#
56	62.3	42.7	64.1





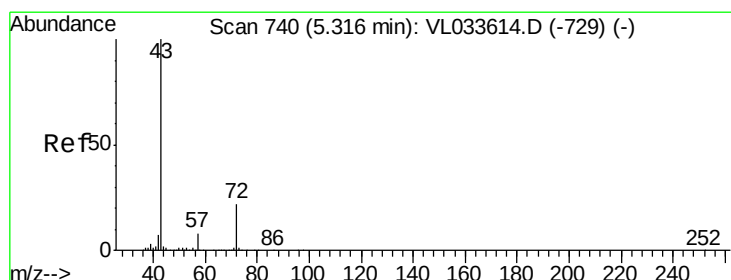
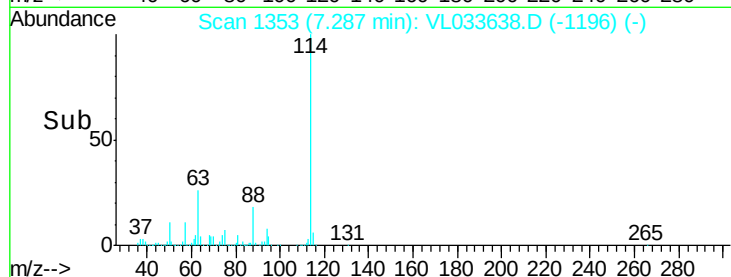
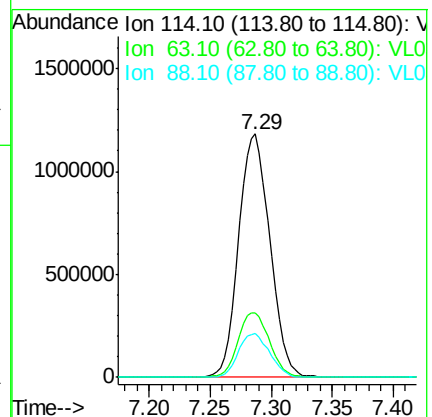
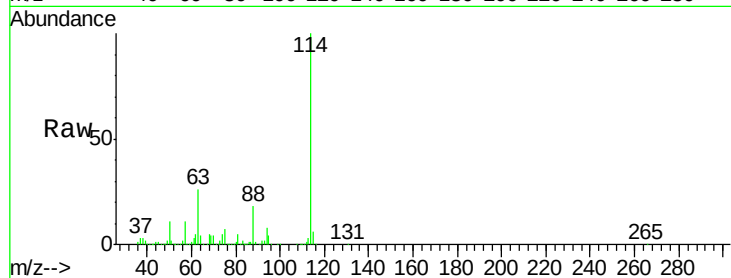
#33
 1,4-Difluorobenzene
 Concen: 10.000 ppbv
 RT: 7.29 min Scan# 1353
 Delta R.T. 0.00 min
 Lab File: VL033638.D
 Acq: 2 May 2019 21:45

Instrument :
 MSVOA_L
 ClientSampleId :
 A-7

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.8	21.1	31.7
88	17.9	14.2	21.4

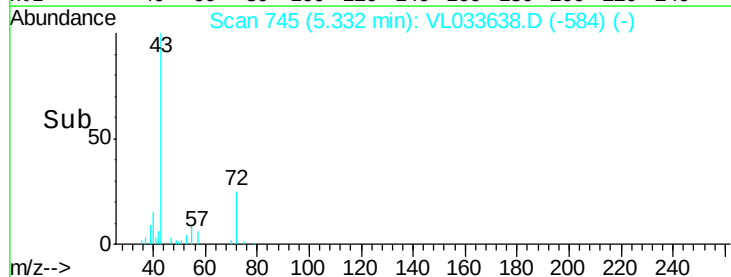
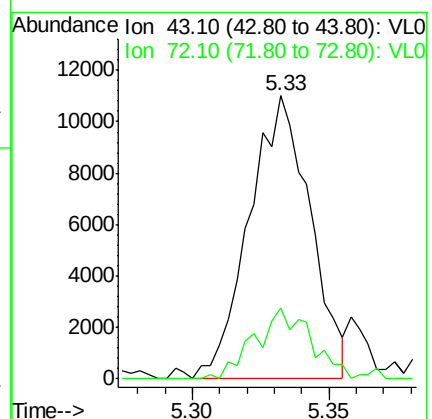
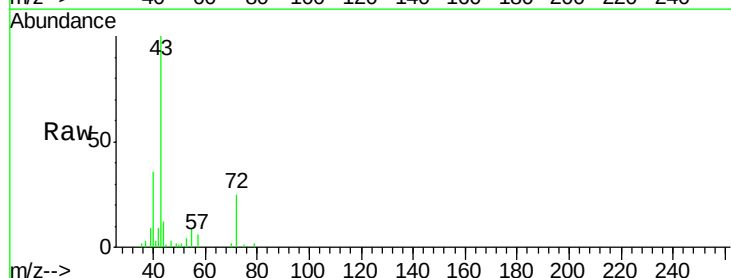
Manual Integrations
 APPROVED

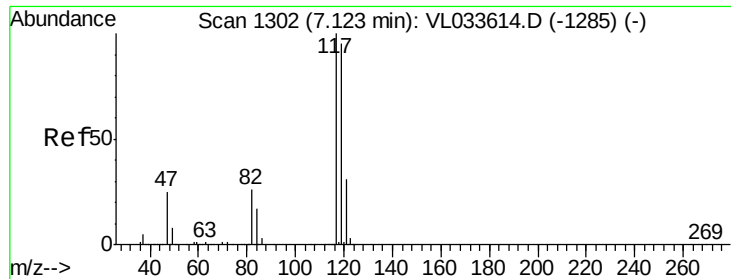
MMDadoda
 5/4/2019 7:18:45 AM



#34
 2-Butanone
 Concen: 0.133 ppbv
 RT: 5.33 min Scan# 745
 Delta R.T. 0.02 min
 Lab File: VL033638.D
 Acq: 2 May 2019 21:45

Tgt Ion	Ratio	Lower	Upper
43	100		
72	23.7	17.8	26.8





#35

Carbon Tetrachloride

Concen: 0.063 ppbv m

RT: 7.13 min Scan# 1303

Delta R.T. 0.00 min

Lab File: VL033638.D

Acq: 2 May 2019 21:45

Instrument :

MSVOA_L

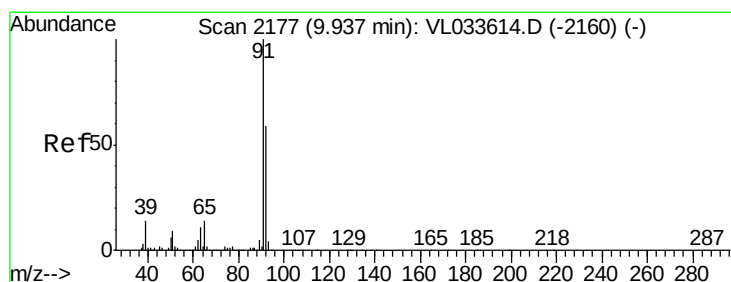
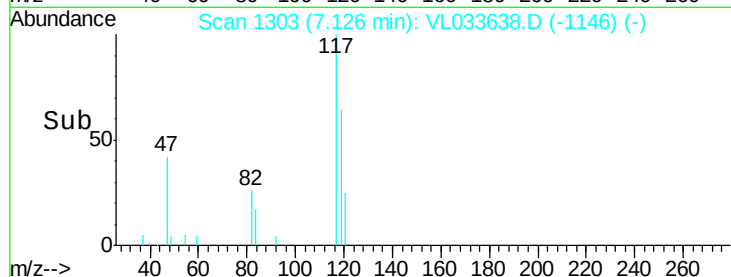
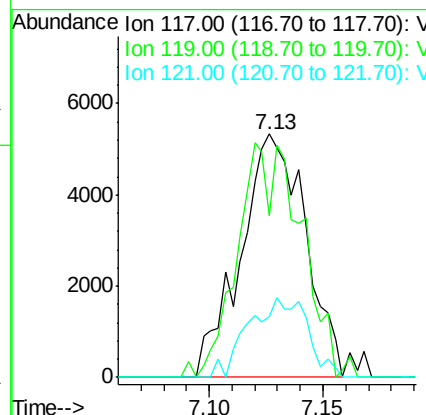
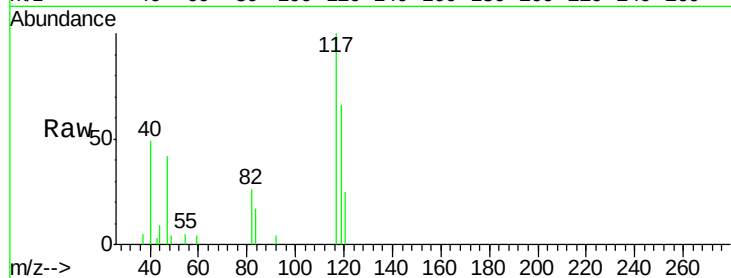
ClientSampleId :

A-7

Tot Ion	Ratio	Lower	Upper
117	100		
119	66.5	76.2	114.4#
121	24.8	24.9	37.3#

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:18:45 AM



#53

Toluene

Concen: 0.470 ppbv

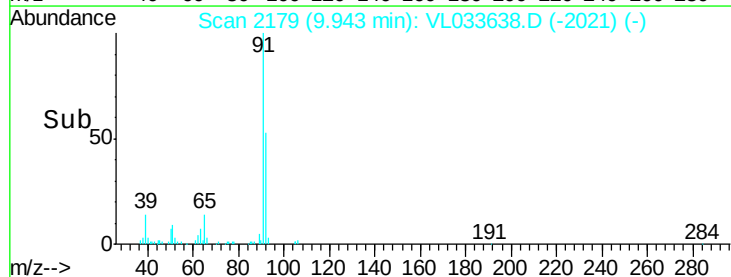
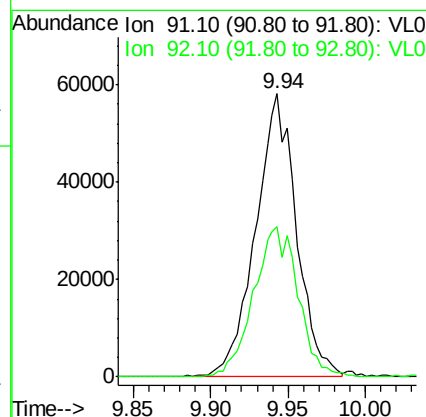
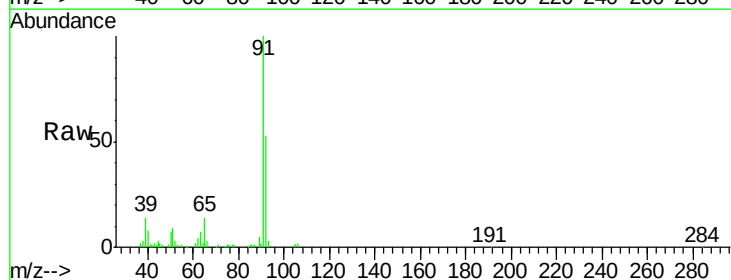
RT: 9.94 min Scan# 2179

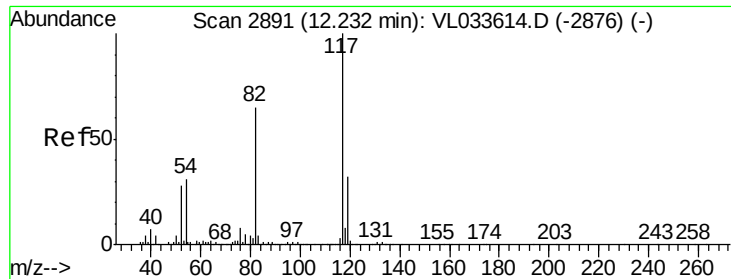
Delta R.T. 0.01 min

Lab File: VL033638.D

Acq: 2 May 2019 21:45

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.9	47.8	71.6





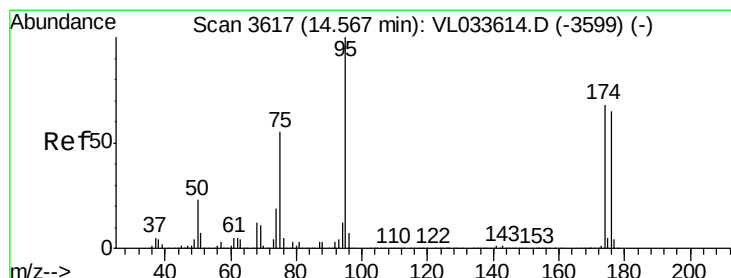
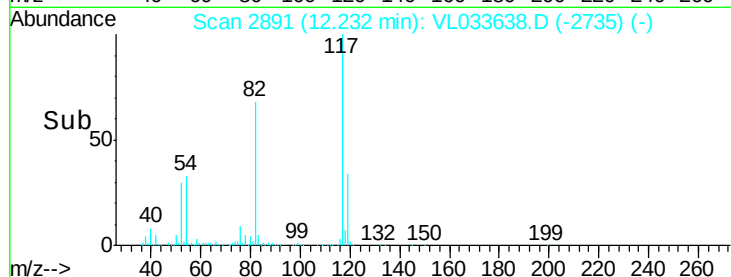
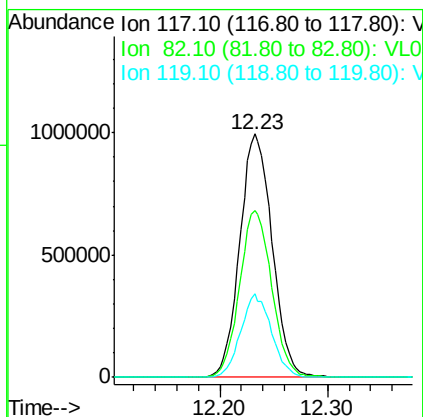
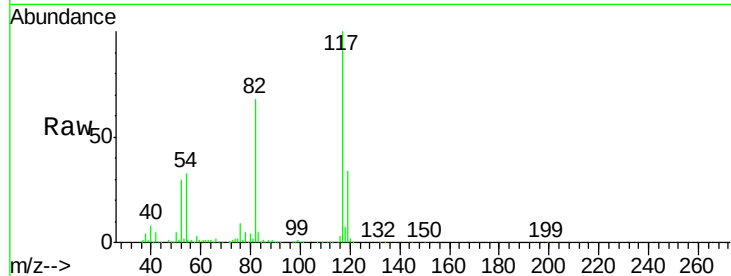
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.23 min Scan# 2891
Delta R.T. 0.00 min
Lab File: VL033638.D
Acq: 2 May 2019 21:45

Instrument :
MSVOA_L
ClientSampleId :
A-7

Tot Ion	Ratio	Lower	Upper
117	100		
82	68.4	52.6	78.8
119	32.8	28.3	42.5

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:18:45 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 10.972 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. 0.00 min
Lab File: VL033638.D
Acq: 2 May 2019 21:45

Tgt Ion	Ratio	Lower	Upper
95	100		
174	65.8	53.9	80.9
175	4.7	4.0	6.0

