

Data Path : Z:\VOASRV\HPCHEM1\MSVOA L\DATA\VL050219\
 Data File : VL033646.D
 Acq On : 3 May 2019 3:03
 Operator : SY/AP
 Sample : K2628-11
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleId :
 A-11

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:19:01 AM

Quant Time: May 03 09:06:27 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 09:06:27 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	823868	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.29	114	2021220	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.24	117	1947590	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.57	95	1642335	11.08	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	110.80%

Target Compounds	R.T.	QIon	Response	Conc	Units	Ovalue
2) Dichlorodifluoromethane	3.07	85	44225	0.356	ppbv	96
3) Chlorodifluoromethane	3.01	51	44645m	0.453	ppbv	
4) Chloromethane	3.17	50	28796	0.537	ppbv	99
11) Trichlorofluoromethane	4.00	101	44249	0.300	ppbv	92
12) 1,1,2-Trichlorotrifluoroet	4.56	101	8753m	0.086	ppbv	
13) Ethanol	3.65	45	625254	48.893	ppbv	99
15) Acetone	3.90	43	508565	5.070	ppbv	98
19) Isopropyl Alcohol	4.03	45	149680	2.174	ppbv #	90
20) Methylene Chloride	4.41	84	63531	1.625	ppbv	95
26) Hexane	5.78	57	68345	0.853	ppbv #	44
34) 2-Butanone	5.34	43	28470	0.229	ppbv	100
35) Carbon Tetrachloride	7.12	117	10770m	0.067	ppbv	
36) Benzene	7.00	78	16200m	0.094	ppbv	
53) Toluene	9.94	91	1164390	5.358	ppbv	99

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

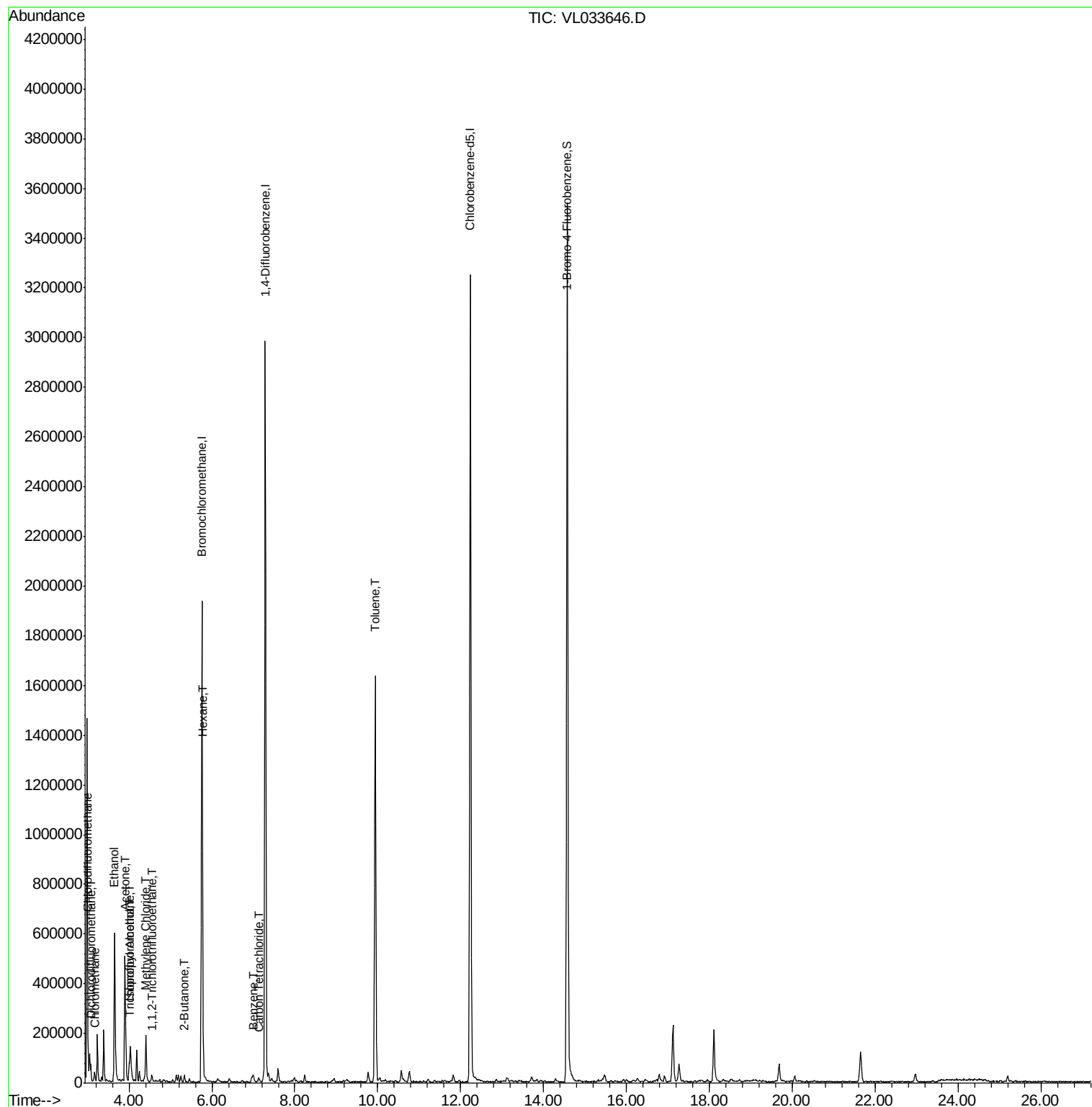
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA L\DATA\VL050219\
Data File : VL033646.D
Acq On : 3 May 2019 3:03
Operator : SY/AP
Sample : K2628-11
Misc : 400ml/MSVOA L
ALS Vial : 1 Sample Multiplier: 1

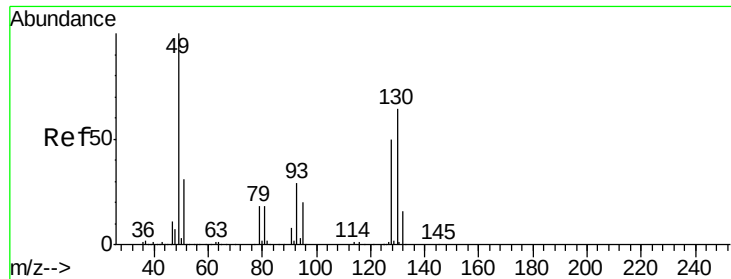
Instrument :
MSVOA_L
ClientSampleId :
A-11

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:19:01 AM

Quant Time: May 03 09:06:27 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA L\METHODS\VL050119AIR.M
Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Thu May
QLast Update : Thu May 02 06:29:02 2019
Response via : Initial Calibration





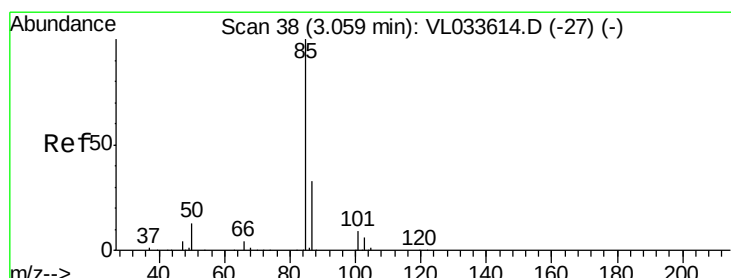
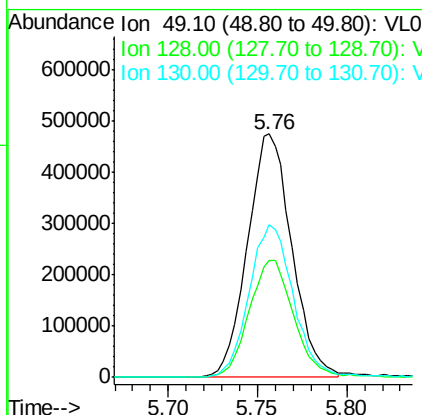
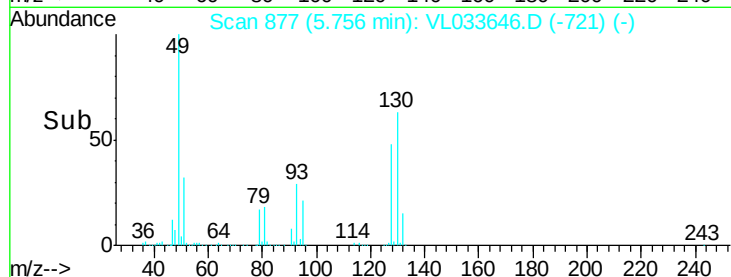
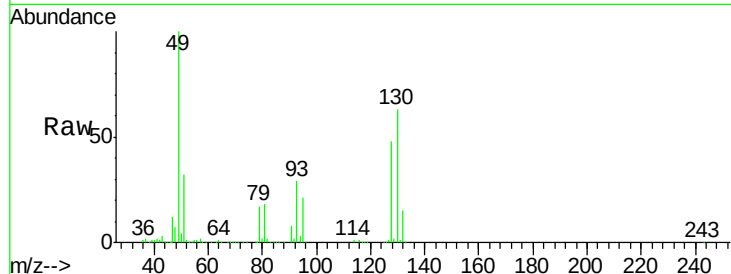
#1
 Bromochloromethane
 Concen: 10.000 ppbv
 RT: 5.76 min Scan# 877
 Delta R.T. 0.00 min
 Lab File: VL033646.D
 Acq: 3 May 2019 3:03

Instrument :
 MSVOA_L
 ClientSampled :
 A-11

Tot Ion:	49	Resp:	823868
Ion Ratio	Lower	Upper	
49	100		
128	48.9	25.0	75.0
130	63.4	31.9	95.9

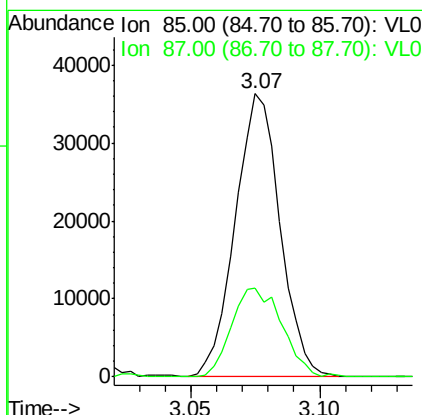
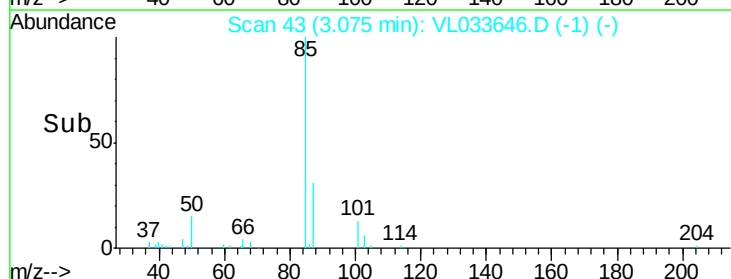
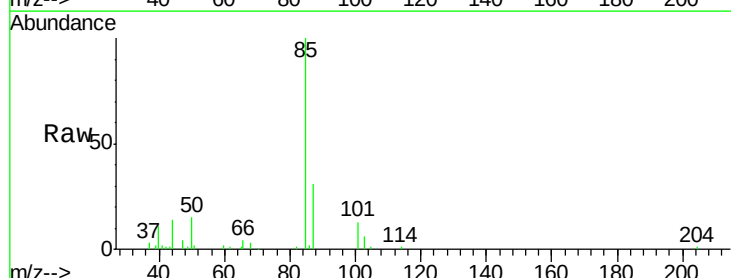
Manual Integrations
 APPROVED

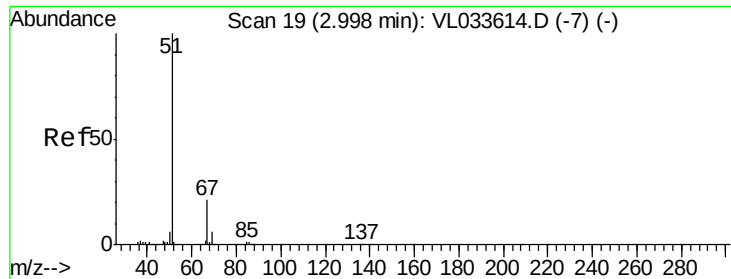
MMDadoda
 5/4/2019 7:19:01 AM



#2
 Dichlorodifluoromethane
 Concen: 0.356 ppbv
 RT: 3.07 min Scan# 43
 Delta R.T. 0.02 min
 Lab File: VL033646.D
 Acq: 3 May 2019 3:03

Tgt Ion:	85	Resp:	44225
Ion Ratio	Lower	Upper	
85	100		
87	31.3	26.8	40.2





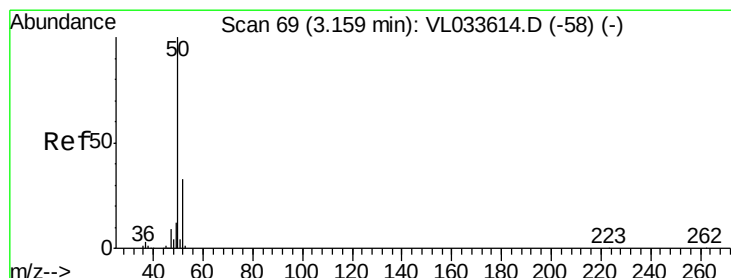
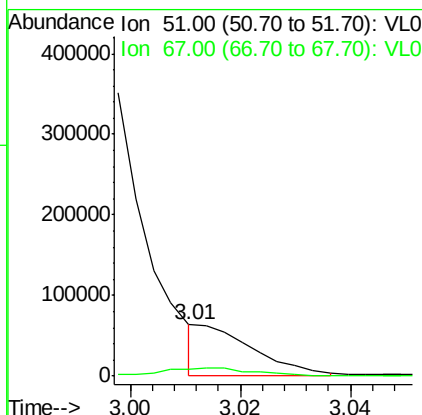
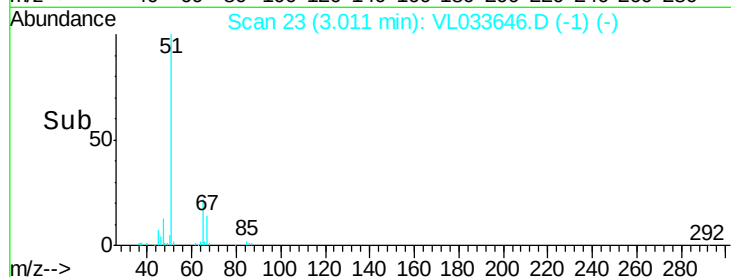
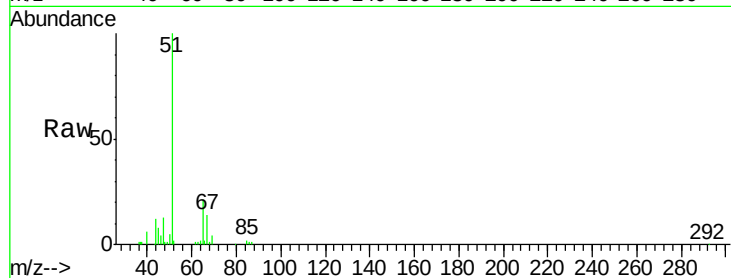
#3
Chlorodifluoromethane
Concen: 0.453 ppbv m
RT: 3.01 min Scan# 23
Delta R.T. 0.01 min
Lab File: VL033646.D
Acq: 3 May 2019 3:03

Instrument :
MSVOA_L
ClientSampleId :
A-11

Tot Ion: 51 Resp: 44645
Ion Ratio Lower Upper
51 100
67 30.2 15.6 23.4#

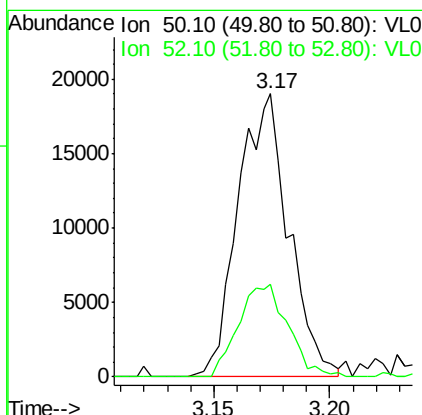
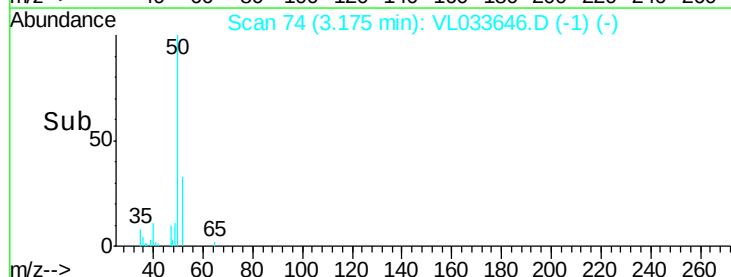
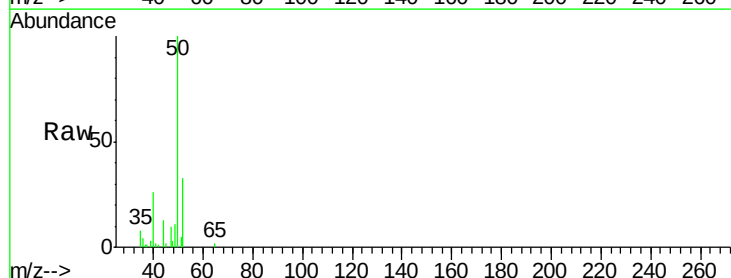
Manual Integrations
APPROVED

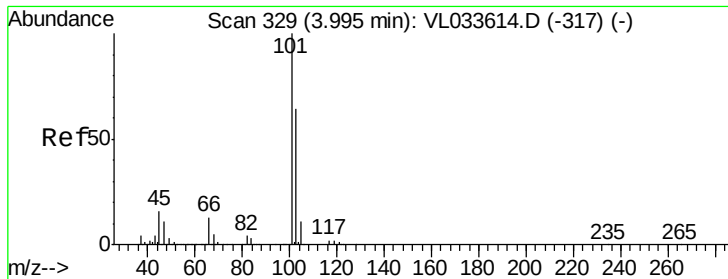
MMDadoda
5/4/2019 7:19:01 AM



#4
Chloromethane
Concen: 0.537 ppbv
RT: 3.17 min Scan# 74
Delta R.T. 0.02 min
Lab File: VL033646.D
Acq: 3 May 2019 3:03

Tgt Ion: 50 Resp: 28796
Ion Ratio Lower Upper
50 100
52 33.0 26.0 39.0





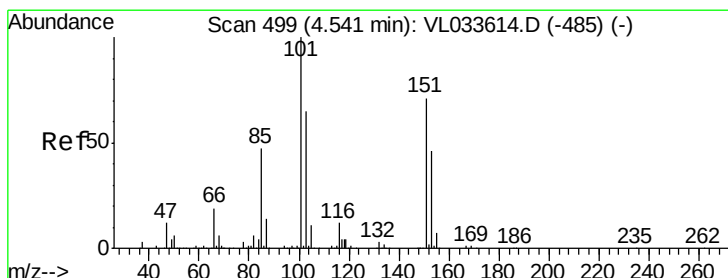
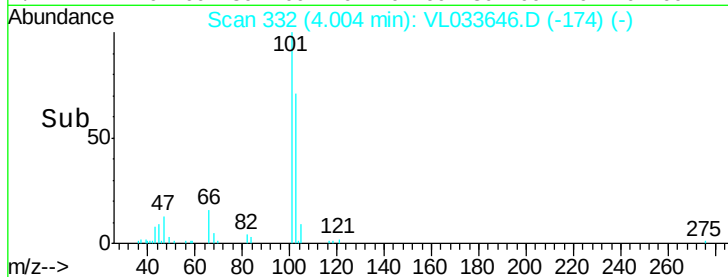
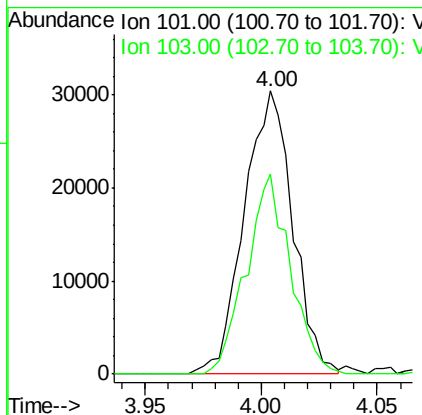
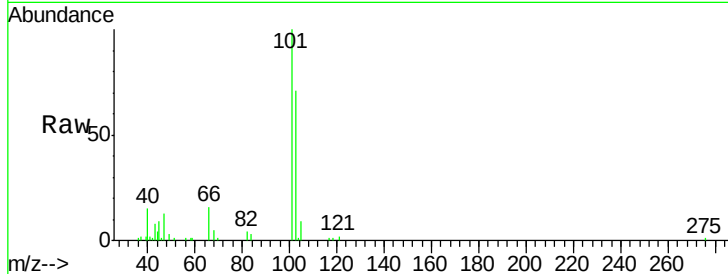
#11
 Trichlorofluoromethane
 Concen: 0.300 ppbv
 RT: 4.00 min Scan# 332
 Delta R.T. 0.01 min
 Lab File: VL033646.D
 Acq: 3 May 2019 3:03

Instrument :
 MSVOA_L
 ClientSampleId :
 A-11

Tot Ion	Ratio	Lower	Upper
101	100		
103	70.6	51.2	76.8

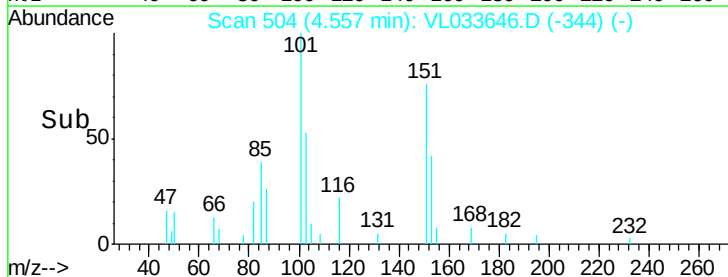
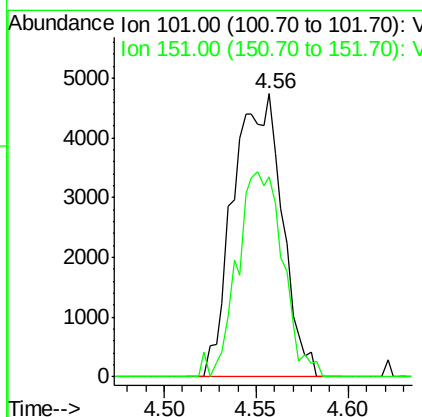
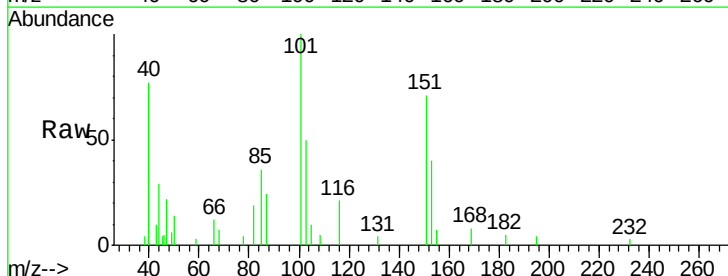
Manual Integrations
 APPROVED

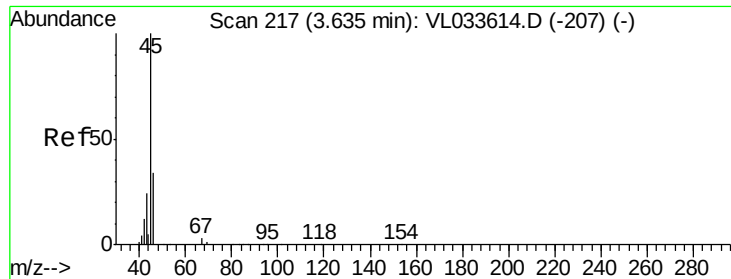
MMDadoda
 5/4/2019 7:19:01 AM



#12
 1,1,2-Trichlorotrifluoroethane
 Concen: 0.086 ppbv m
 RT: 4.56 min Scan# 504
 Delta R.T. 0.02 min
 Lab File: VL033646.D
 Acq: 3 May 2019 3:03

Tgt Ion	Ratio	Lower	Upper
101	100		
151	0.0	59.2	88.8#





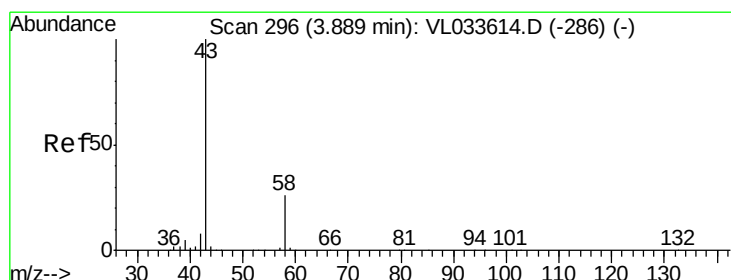
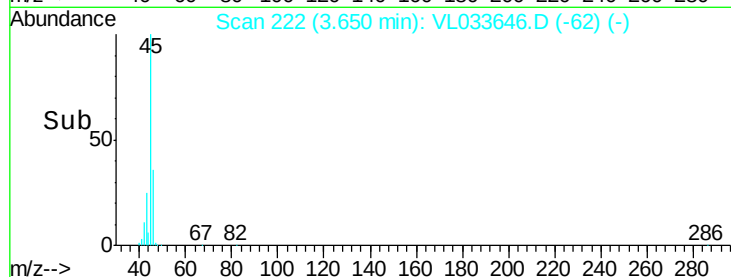
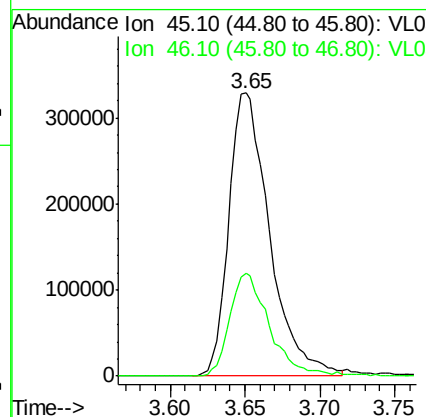
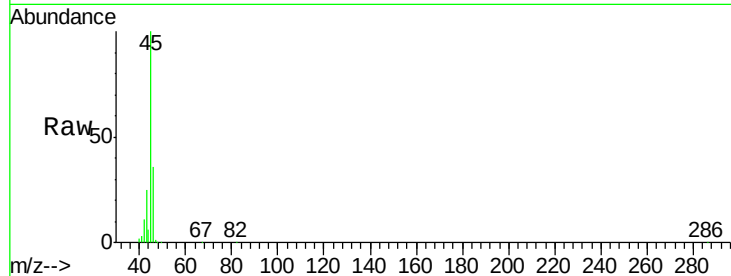
#13
Ethanol
Concen: 48.893 ppbv
RT: 3.65 min Scan# 222
Delta R.T. 0.02 min
Lab File: VL033646.D
Acq: 3 May 2019 3:03

Instrument :
MSVOA_L
ClientSampled :
A-11

Tot Ion	45	46	Ratio	Lower	Upper
Resp:	625254				
Ion	45	46	100	35.8	14.6
				58.2	

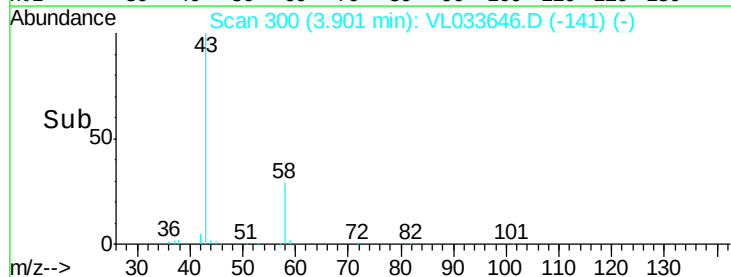
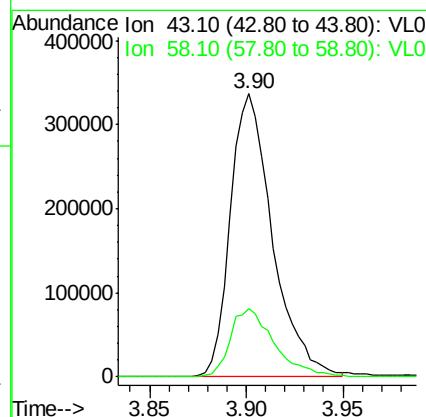
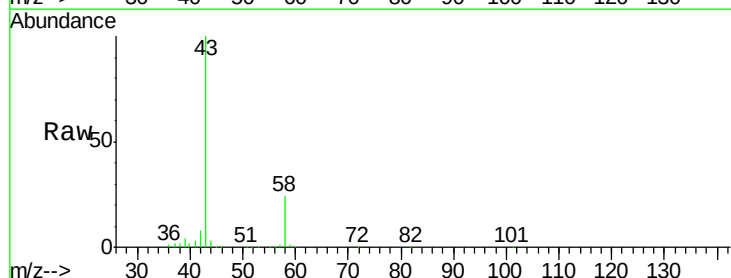
Manual Integrations
APPROVED

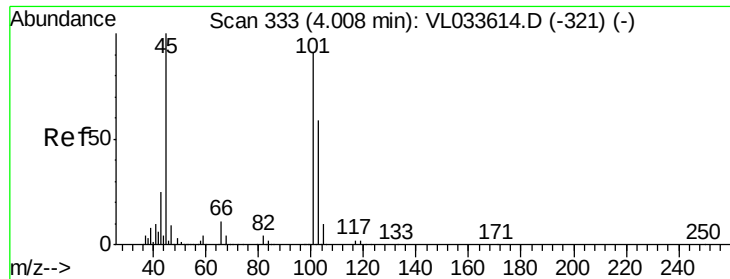
MMDadoda
5/4/2019 7:19:01 AM



#15
Acetone
Concen: 5.070 ppbv
RT: 3.90 min Scan# 300
Delta R.T. 0.01 min
Lab File: VL033646.D
Acq: 3 May 2019 3:03

Tgt Ion	43	58	Ratio	Lower	Upper
Resp:	508565				
Ion	43	58	100	25.6	21.2
				31.8	





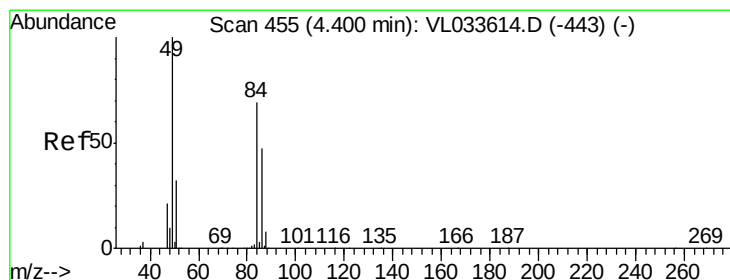
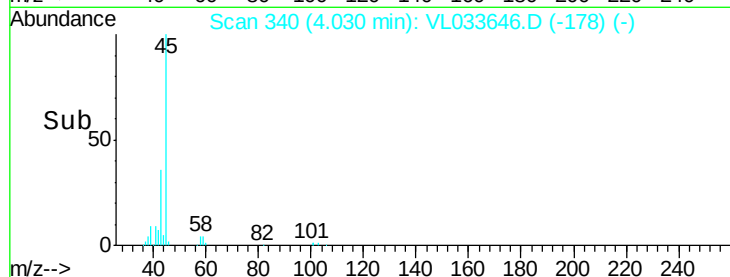
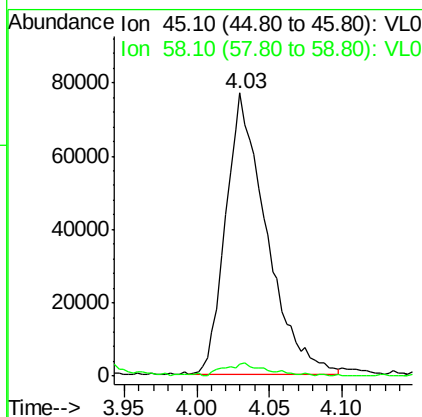
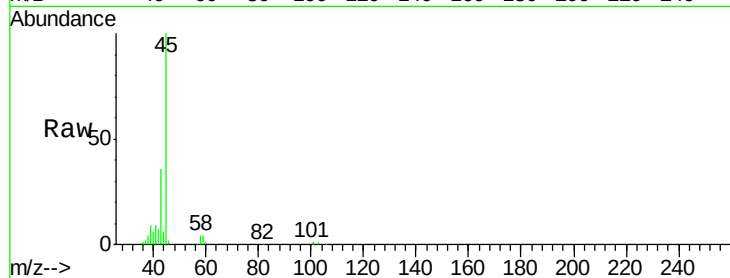
#19
Isopropyl Alcohol
Concen: 2.174 ppbv
RT: 4.03 min Scan# 340
Delta R.T. 0.02 min
Lab File: VL033646.D
Acq: 3 May 2019 3:03

Instrument :
MSVOA_L
ClientSampleId :
A-11

Tot Ion	Ratio	Lower	Upper
45	100		
58	5.7	1.8	2.6#

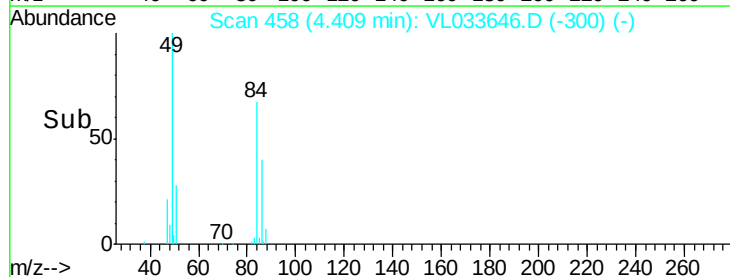
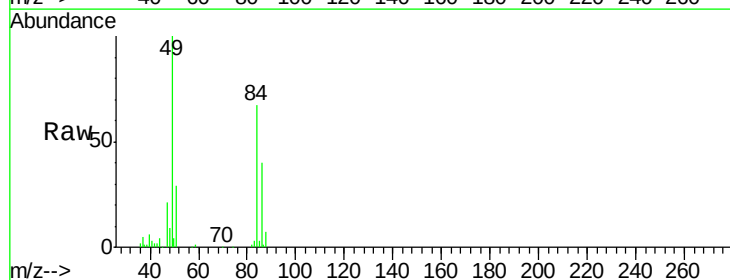
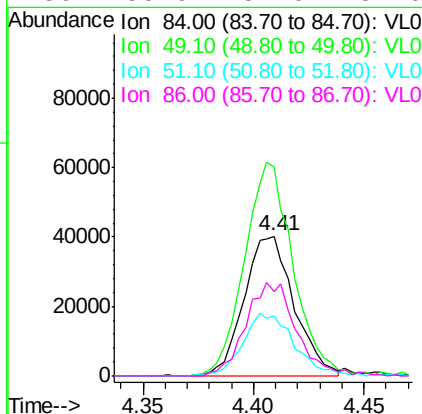
Manual Integrations
APPROVED

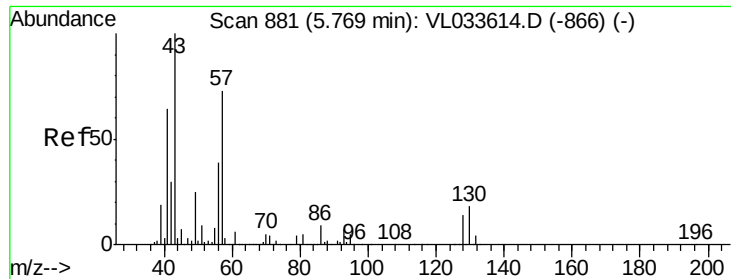
MMDadoda
5/4/2019 7:19:01 AM



#20
Methylene Chloride
Concen: 1.625 ppbv
RT: 4.41 min Scan# 458
Delta R.T. 0.01 min
Lab File: VL033646.D
Acq: 3 May 2019 3:03

Tgt Ion	Ratio	Lower	Upper
84	100		
49	148.9	116.2	174.2
51	42.3	37.0	55.6
86	59.9	54.0	81.0





#26

Hexane

Concen: 0.853 ppbv

RT: 5.78 min Scan# 884

Delta R.T. 0.01 min

Lab File: VL033646.D

Acq: 3 May 2019 3:03

Instrument :

MSVOA_L

ClientSampled :

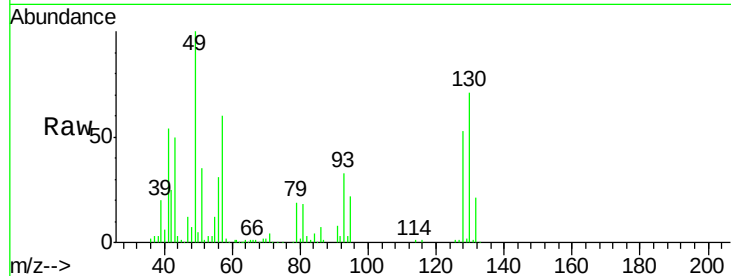
A-11

Tot Ion: 57 Resp: 68345

Ion	Ratio	Lower	Upper
57	100		
41	104.6	70.6	106.0
43	97.9	186.0	279.0#
56	60.9	42.7	64.1

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:19:01 AM

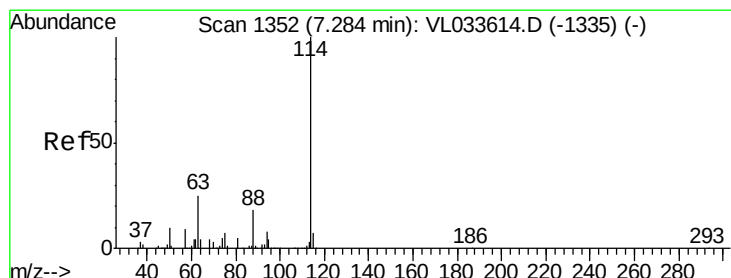
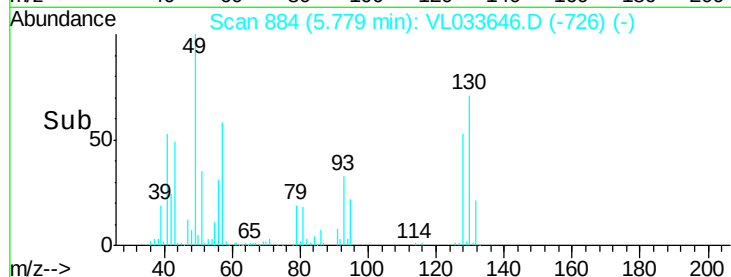
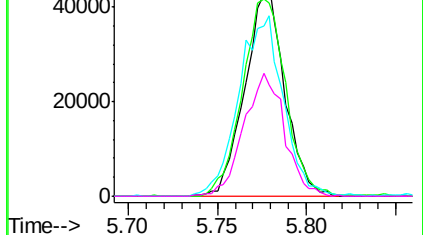


Abundance Ion 57.10 (56.80 to 57.80): VL0

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



#33

1,4-Difluorobenzene

Concen: 10.000 ppbv

RT: 7.29 min Scan# 1353

Delta R.T. 0.00 min

Lab File: VL033646.D

Acq: 3 May 2019 3:03

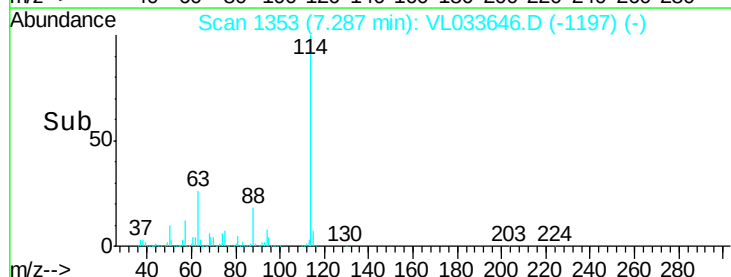
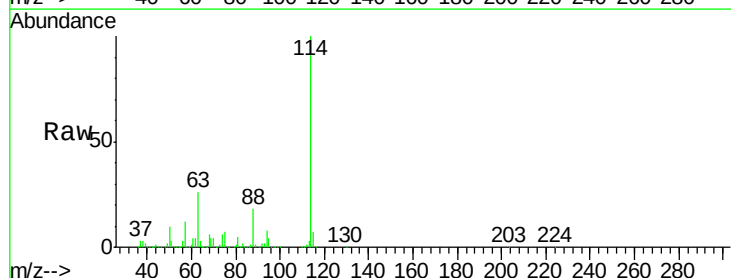
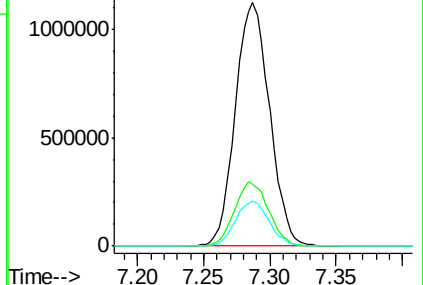
Tgt Ion:114 Resp: 2021220

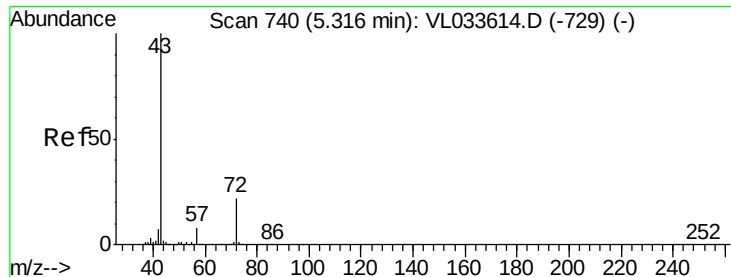
Ion	Ratio	Lower	Upper
114	100		
63	26.5	21.1	31.7
88	18.3	14.2	21.4

Abundance Ion 114.10 (113.80 to 114.80): V

Ion 63.10 (62.80 to 63.80): VL0

Ion 88.10 (87.80 to 88.80): VL0





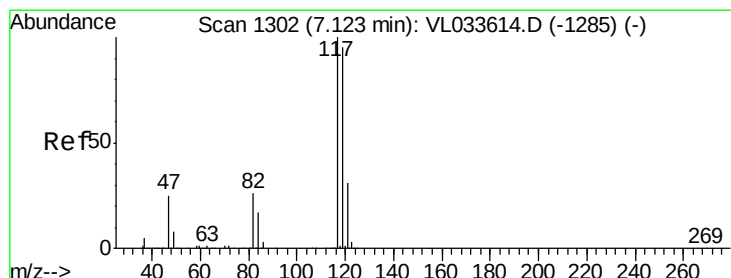
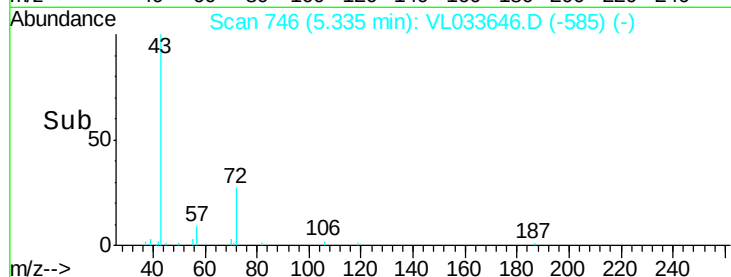
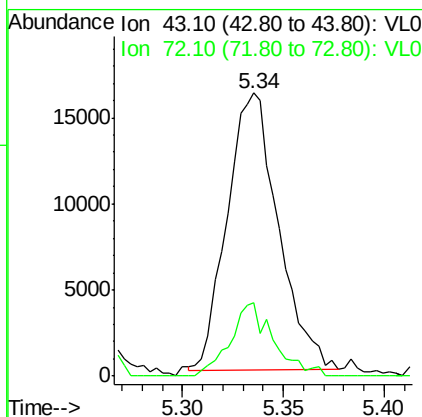
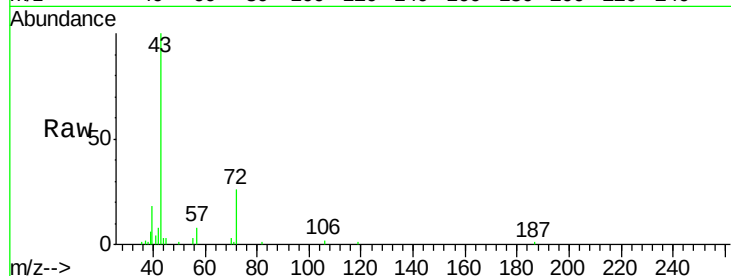
#34
2-Butanone
Concen: 0.229 ppbv
RT: 5.34 min Scan# 746
Delta R.T. 0.02 min
Lab File: VL033646.D
Acq: 3 May 2019 3:03

Instrument :
MSVOA_L
ClientSampleId :
A-11

Tot Ion	Ratio	Lower	Upper
43	100		
72	22.4	17.8	26.8

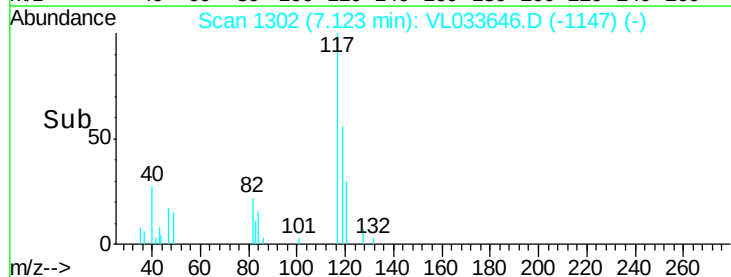
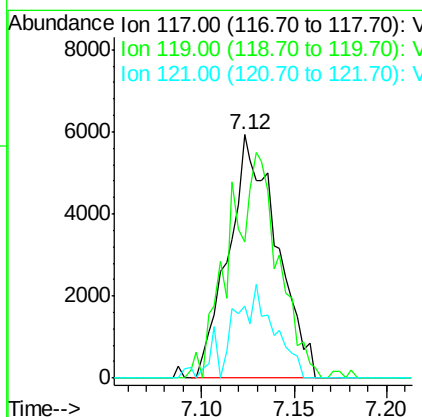
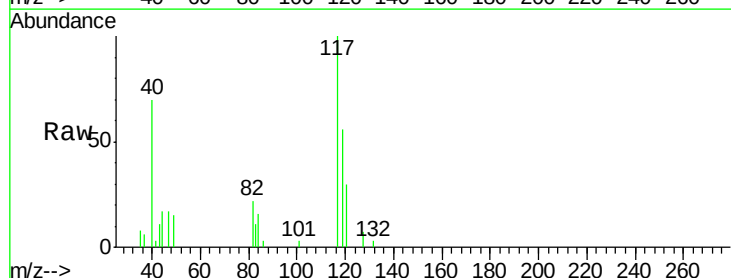
Manual Integrations
APPROVED

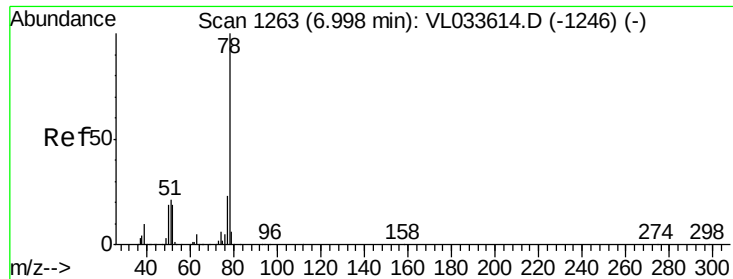
MMDadoda
5/4/2019 7:19:01 AM



#35
Carbon Tetrachloride
Concen: 0.067 ppbv m
RT: 7.12 min Scan# 1302
Delta R.T. -0.00 min
Lab File: VL033646.D
Acq: 3 May 2019 3:03

Tgt Ion	Ratio	Lower	Upper
117	100		
119	56.0	76.2	114.4#
121	29.8	24.9	37.3





#36

Benzene

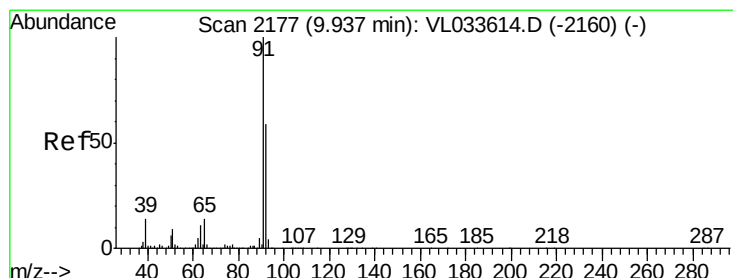
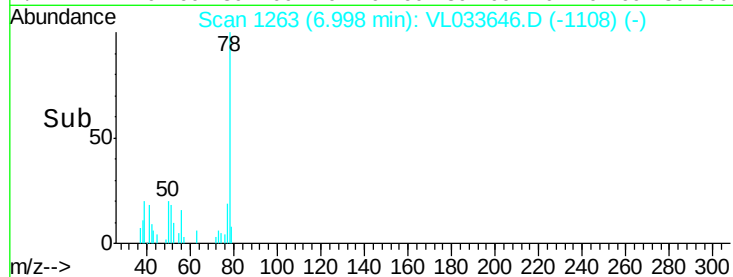
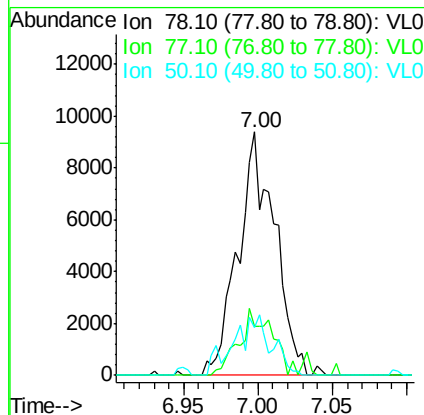
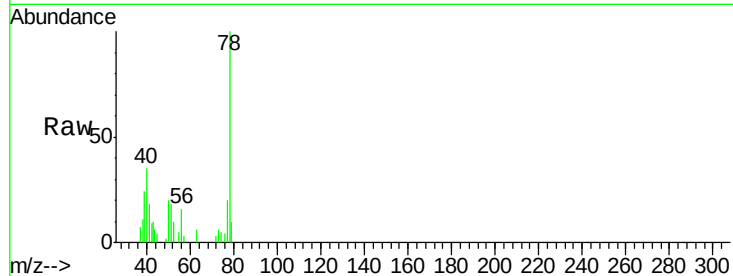
Concen: 0.094 ppbv m
 RT: 7.00 min Scan# 1263
 Delta R.T. -0.00 min
 Lab File: VL033646.D
 Acq: 3 May 2019 3:03

Instrument :
 MSVOA_L
 ClientSampleId :
 A-11

Tot Ion	Ratio	Lower	Upper
78	100		
77	20.4	18.1	27.1
50	19.8	15.1	22.7

Manual Integrations
 APPROVED

MMDadoda
 5/4/2019 7:19:01 AM

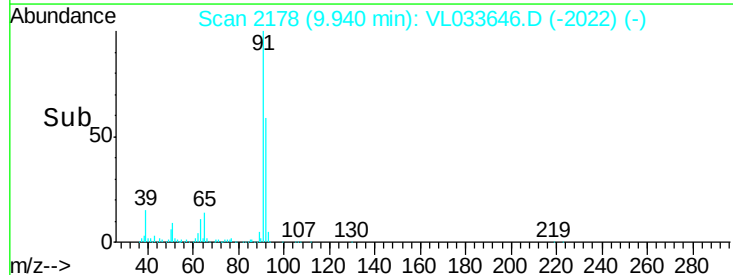
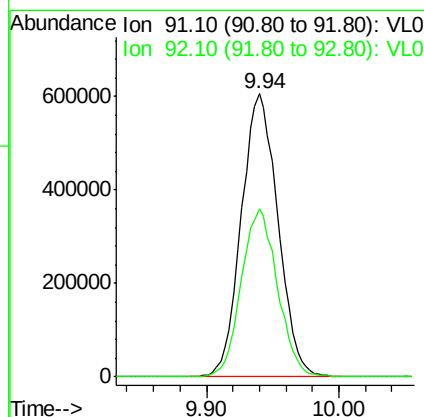
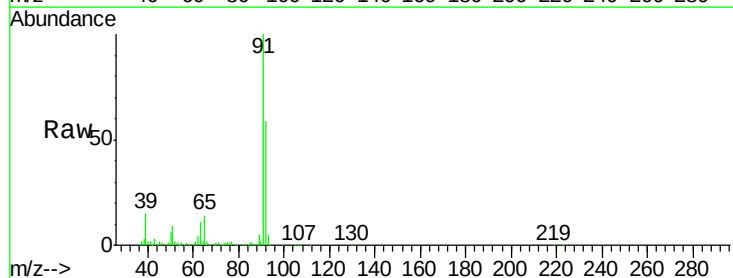


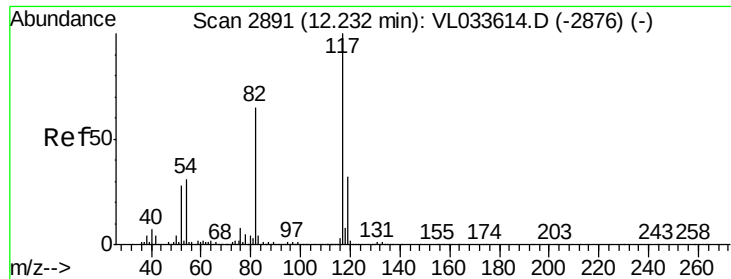
#53

Toluene

Concen: 5.358 ppbv
 RT: 9.94 min Scan# 2178
 Delta R.T. 0.00 min
 Lab File: VL033646.D
 Acq: 3 May 2019 3:03

Tgt Ion	Ratio	Lower	Upper
91	100		
92	58.7	47.8	71.6





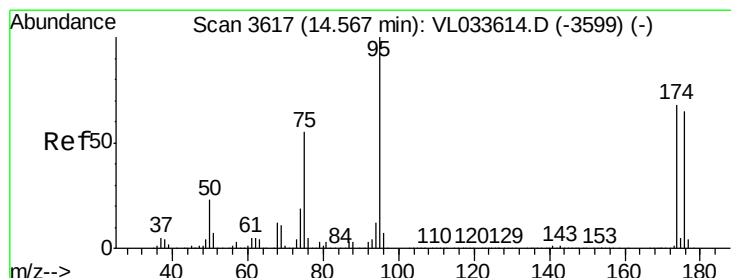
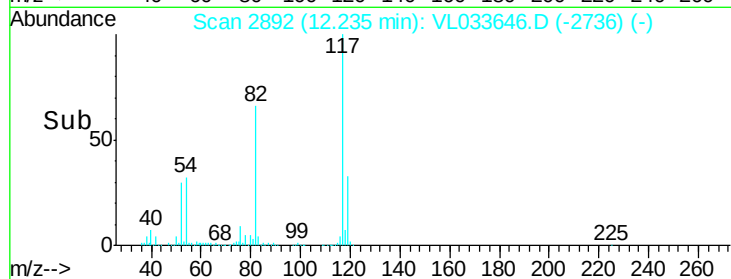
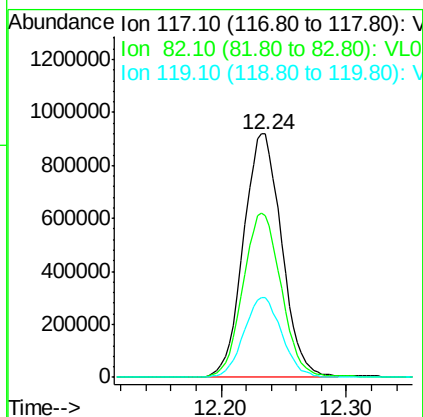
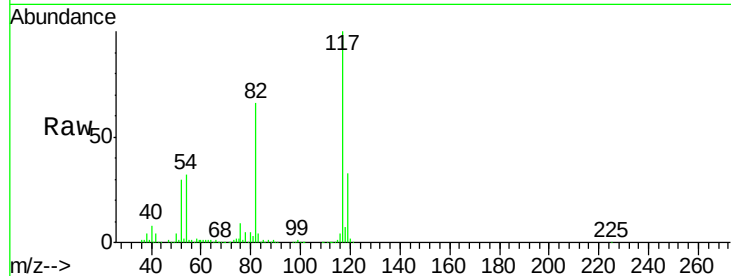
#55
Chlorobenzene-d5
Concen: 10.000 ppbv
RT: 12.24 min Scan# 2892
Delta R.T. 0.00 min
Lab File: VL033646.D
Acq: 3 May 2019 3:03

Instrument :
MSVOA_L
ClientSampleId :
A-11

Tot Ion	Ratio	Lower	Upper
117	100		
82	67.9	52.6	78.8
119	32.9	28.3	42.5

Manual Integrations
APPROVED

MMDadoda
5/4/2019 7:19:01 AM



#68
1-Bromo-4-Fluorobenzene
Concen: 11.077 ppbv
RT: 14.57 min Scan# 3617
Delta R.T. -0.00 min
Lab File: VL033646.D
Acq: 3 May 2019 3:03

Tgt Ion	Ratio	Lower	Upper
95	100		
174	66.6	53.9	80.9
175	4.8	4.0	6.0

