

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031919\
 Data File : VW009238.D
 Acq On : 19 Mar 2019 13:13
 Operator : SY/VA
 Sample : VSTDIC150
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC150

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 3:53:03 AM

Quant Time: Mar 20 07:17:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W031919S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 06:57:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	333567	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	509804	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	473764	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	250520	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.30	65	526792	148.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	296.94%	
35) Dibromofluoromethane	7.88	113	456197	141.07	ug/l	0.00
Spiked Amount	50.000		Recovery	=	282.14%	
50) Toluene-d8	10.32	98	1773213	150.88	ug/l	0.00
Spiked Amount	50.000		Recovery	=	301.76%	
62) 4-Bromofluorobenzene	12.62	95	663407	153.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	307.48%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	281361	120.226	ug/l	97
3) Chloromethane	2.22	50	386937	160.023	ug/l	96
4) Vinyl Chloride	2.37	62	514318	144.921	ug/l	97
5) Bromomethane	2.77	94	420773	145.385	ug/l	96
6) Chloroethane	2.92	64	414888	150.681	ug/l	100
7) Trichlorofluoromethane	3.25	101	388020	166.900	ug/l	97
8) Diethyl Ether	3.67	74	235461	140.434	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	4.06	101	453927	134.786	ug/l	98
10) Methyl Iodide	4.27	142	671118	138.238	ug/l	98
11) Tert butyl alcohol	5.17	59	161155	782.755	ug/l	98
12) 1,1-Dichloroethene	4.03	96	442311	138.940	ug/l	98
13) Acrolein	3.89	56	120902	719.088	ug/l	98
14) Allyl chloride	4.66	41	703872	149.979	ug/l	99
15) Acrylonitrile	5.36	53	542628	770.082	ug/l	100
16) Acetone	4.12	43	523287	718.859	ug/l	99
17) Carbon Disulfide	4.38	76	1219516	137.413	ug/l	97
18) Methyl Acetate	4.67	43	288244	154.288	ug/l	100
19) Methyl tert-butyl Ether	5.42	73	586503	150.112	ug/l	96
20) Methylene Chloride	4.91	84	443093	130.363	ug/l	93
21) trans-1,2-Dichloroethene	5.41	96	470997	143.805	ug/l	95
22) Diisopropyl ether	6.31	45	1569672	155.142	ug/l	97
23) Vinyl Acetate	6.25	43	5288777	833.114	ug/l	100
24) 1,1-Dichloroethane	6.21	63	896038	143.500	ug/l	99
25) 2-Butanone	7.17	43	836869	802.323	ug/l	97
26) 2,2-Dichloropropane	7.16	77	480523	137.730	ug/l	100
27) cis-1,2-Dichloroethene	7.17	96	529383	149.194	ug/l	98
28) Bromochloromethane	7.51	49	402992	147.140	ug/l	96
29) Tetrahydrofuran	7.52	42	545119	822.211	ug/l	100
30) Chloroform	7.67	83	929640	143.090	ug/l	99
31) Cyclohexane	7.95	56	796860	136.885	ug/l	98
32) 1,1,1-Trichloroethane	7.87	97	737514	142.215	ug/l	98
36) 1,1-Dichloropropene	8.08	75	714783	140.898	ug/l	99
37) Ethyl Acetate	7.25	43	365532	157.903	ug/l	99
38) Carbon Tetrachloride	8.06	117	753247	140.303	ug/l	100

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031919\
 Data File : VW009238.D
 Acq On : 19 Mar 2019 13:13
 Operator : SY/VA
 Sample : VSTDICC150
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC150

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 3:53:03 AM

Quant Time: Mar 20 07:17:19 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W031919S.M
 Quant Title : SW846 8260
 QLast Update : Wed Mar 20 06:57:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)

39) Methylcyclohexane	9.33	83	860316	146.578	ug/l	96
40) Benzene	8.32	78	1964790	142.822	ug/l	100
41) Methacrylonitrile	7.48	41	206350	165.390	ug/l	94
42) 1,2-Dichloroethane	8.40	62	653379	145.291	ug/l	100
43) Isopropyl Acetate	8.42	43	736694	158.928	ug/l	99
44) Trichloroethene	9.09	130	525999	139.572	ug/l	99
45) 1,2-Dichloropropane	9.37	63	501180	143.310	ug/l	97
46) Dibromomethane	9.46	93	280703	145.965	ug/l	98
47) Bromodichloromethane	9.64	83	720609	148.284	ug/l	99
48) Methyl methacrylate	9.43	41	364855	170.008	ug/l	94
49) 1,4-Dioxane	9.45	88	93216	3125.077	ug/l	99
51) 4-Methyl-2-Pentanone	10.21	43	1969531	815.277	ug/l	100
52) Toluene	10.38	92	1309183	150.190	ug/l	97
53) t-1,3-Dichloropropene	10.60	75	758243	160.004	ug/l	98
54) cis-1,3-Dichloropropene	10.07	75	816205	153.095	ug/l	97
55) 1,1,2-Trichloroethane	10.79	97	382649	146.945	ug/l	98
56) Ethyl methacrylate	10.65	69	536824	173.127	ug/l	97
57) 1,3-Dichloropropane	10.93	76	677352	150.813	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.92	63	281551	310.327	ug/l	100
59) 2-Hexanone	10.97	43	1394282	850.134	ug/l	98
60) Dibromochloromethane	11.13	129	486387	151.182	ug/l	99
61) 1,2-Dibromoethane	11.23	107	373428	150.566	ug/l	100
64) Tetrachloroethene	10.86	164	457212	140.917	ug/l	97
65) Chlorobenzene	11.66	112	1398079	142.691	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	537108	146.760	ug/l	100
67) Ethyl Benzene	11.73	91	2594627	152.889	ug/l	100
68) m/p-Xylenes	11.84	106	1968270	299.225	ug/l	99
69) o-Xylene	12.16	106	947287	155.082	ug/l	99
70) Styrene	12.18	104	1601478	159.015	ug/l	99
71) Bromoform	12.35	173	306552	153.352	ug/l #	99
73) Isopropylbenzene	12.46	105	2667786	159.323	ug/l	100
74) N-amyl acetate	12.27	43	770614	176.431	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.71	83	476308	152.068	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	338713m	133.722	ug/l	
77) Bromobenzene	12.75	156	584612	147.396	ug/l	98
78) n-propylbenzene	12.80	91	3158372	153.580	ug/l	100
79) 2-Chlorotoluene	12.90	91	1778793	152.262	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	2193900	154.069	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	166165	173.189	ug/l	99
82) 4-Chlorotoluene	12.99	91	1873680	152.241	ug/l	99
83) tert-Butylbenzene	13.21	119	1907958	156.789	ug/l	98
84) 1,2,4-Trimethylbenzene	13.26	105	2250236	154.142	ug/l	100
85) sec-Butylbenzene	13.38	105	2765306	153.782	ug/l	99
86) p-Isopropyltoluene	13.50	119	2501059	156.192	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	1193770	145.447	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	1152978	141.085	ug/l	99
89) n-Butylbenzene	13.83	91	2366930	153.988	ug/l	99
90) Hexachloroethane	14.10	117	466928	147.898	ug/l	100
91) 1,2-Dichlorobenzene	13.87	146	1063389	144.486	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	87921	156.764	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW031919\
Data File : VW009238.D
Acq On : 19 Mar 2019 13:13
Operator : SY/VA
Sample : VSTDICC150
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM

Quant Time: Mar 20 07:17:19 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W031919S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 20 06:57:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	733366	148.371	ug/l	100
94) Hexachlorobutadiene	15.24	225	435080	138.397	ug/l	99
95) Naphthalene	15.37	128	1450927	169.425	ug/l	100
96) 1,2,3-Trichlorobenzene	15.56	180	647492	146.753	ug/l	99

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

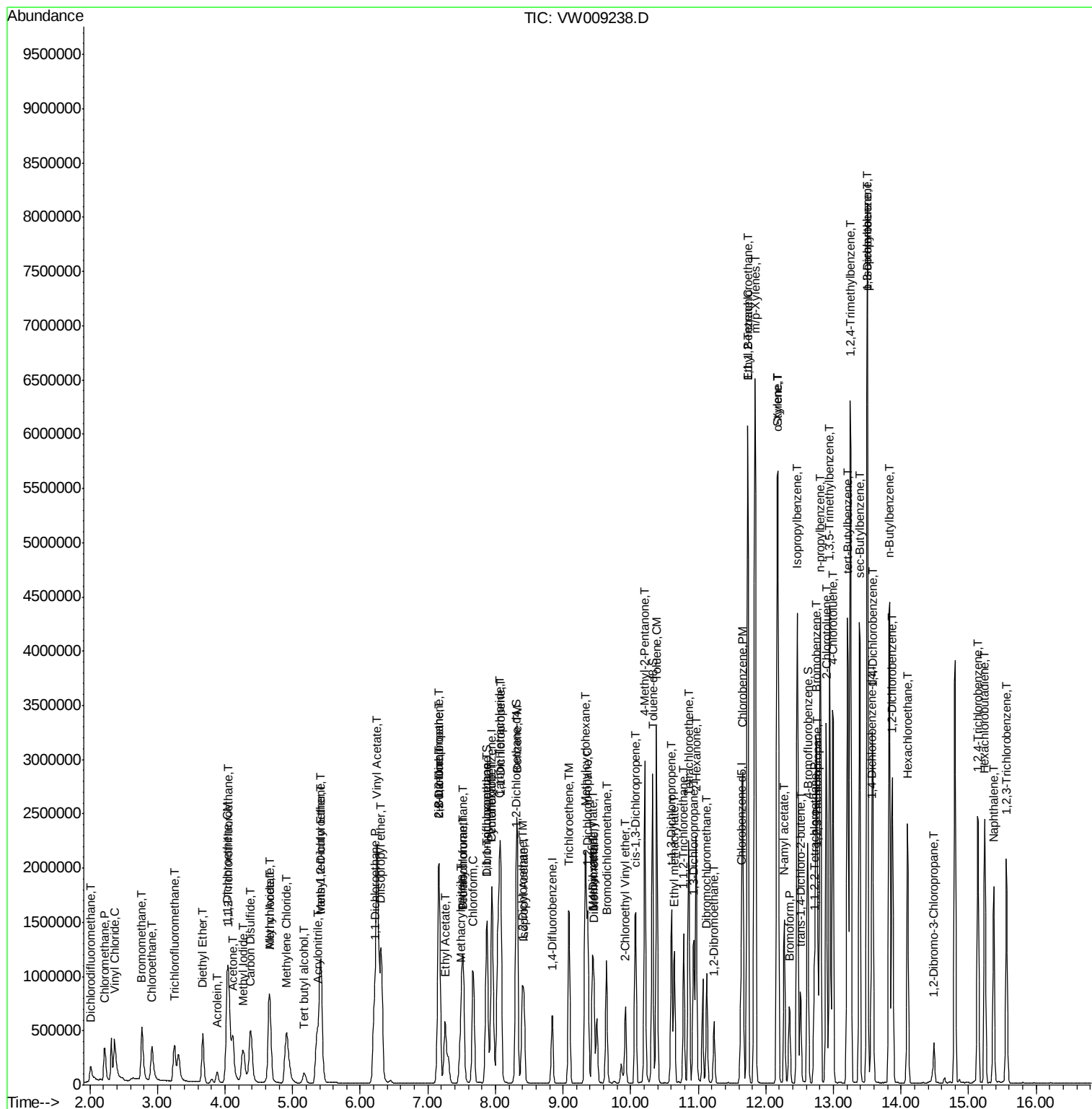
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW031919\
Data File : VW009238.D
Acq On : 19 Mar 2019 13:13
Operator : SY/VA
Sample : VSTDICC150
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 8 Sample Multiplier: 1

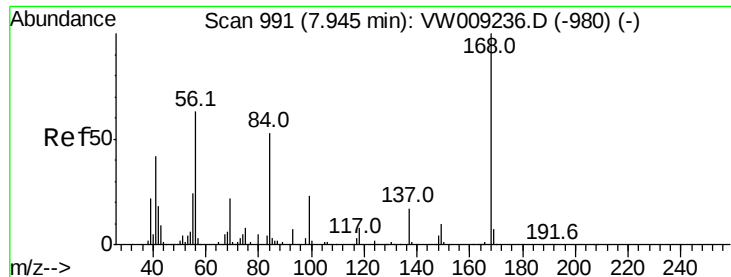
Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM

Quant Time: Mar 20 07:17:19 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W031919S.M
Quant Title : SW846 8260
QLast Update : Wed Mar 20 06:57:43 2019
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 991

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion:168 Resp: 333567

Ion Ratio Lower Upper

168 100

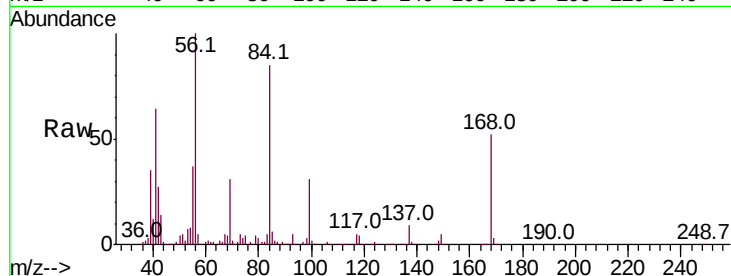
99 59.4 45.4 68.0

Manual Integrations

APPROVED

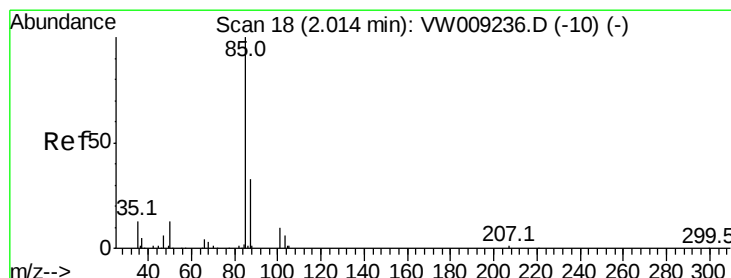
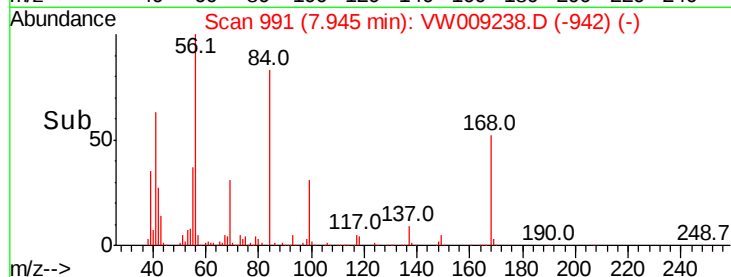
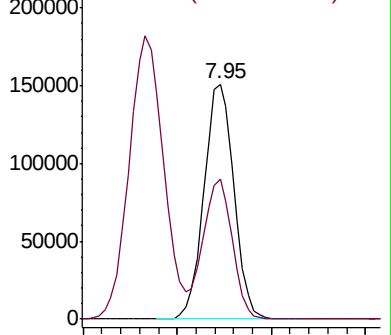
MMDadoda

3/22/2019 3:53:03 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 120.226 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW009238.D

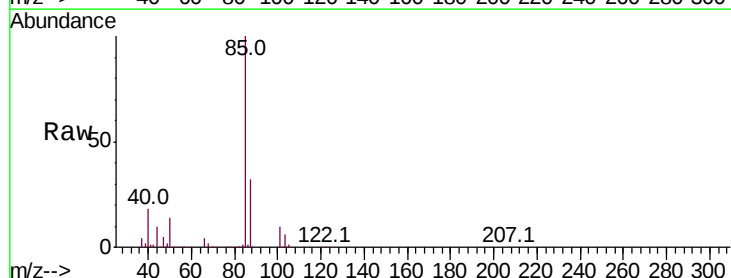
Acq: 19 Mar 2019 13:13

Tgt Ion: 85 Resp: 281361

Ion Ratio Lower Upper

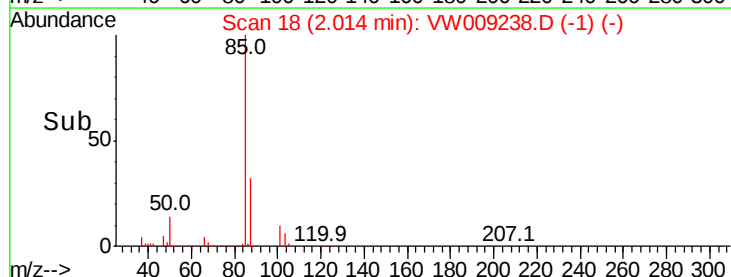
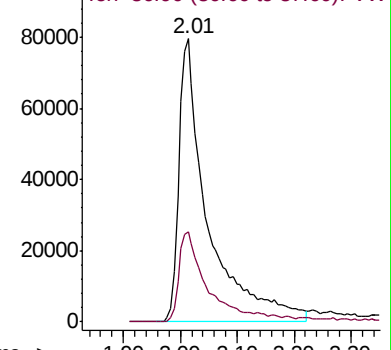
85 100

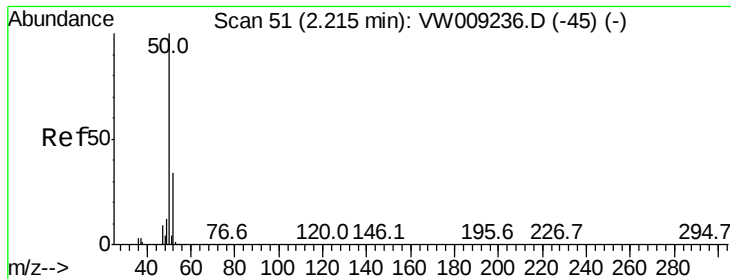
87 31.7 16.7 50.1



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 160.023 ug/l

RT: 2.22 min Scan# 52

Delta R.T. 0.01 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion: 50 Resp: 386937

Ion Ratio Lower Upper

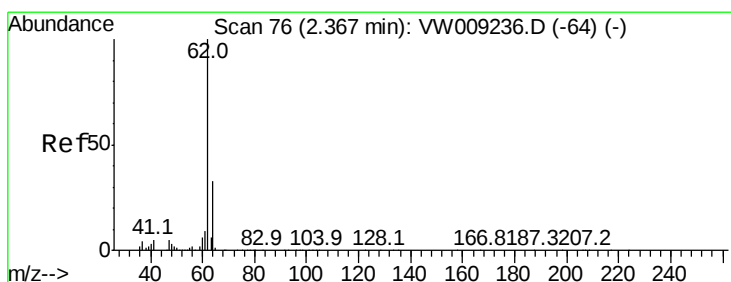
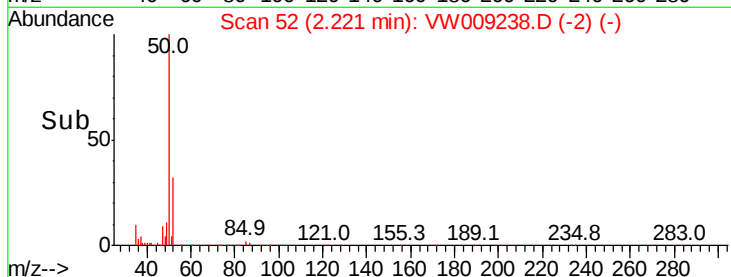
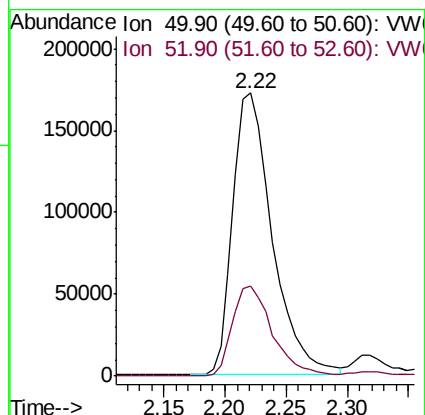
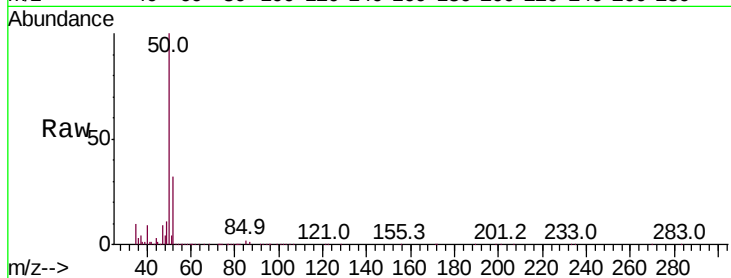
50 100

52 32.0 27.2 40.8

Manual Integrations
APPROVED

MMDadoda

3/22/2019 3:53:03 AM



#4

Vinyl Chloride

Concen: 144.921 ug/l

RT: 2.37 min Scan# 76

Delta R.T. 0.00 min

Lab File: VW009238.D

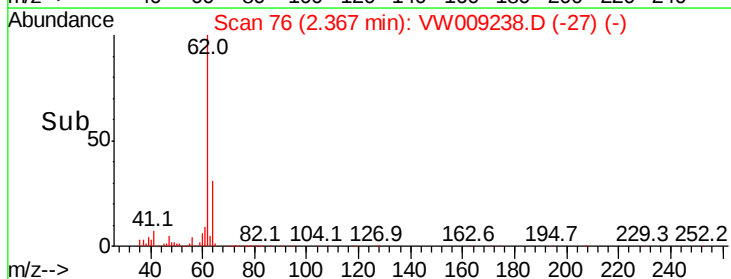
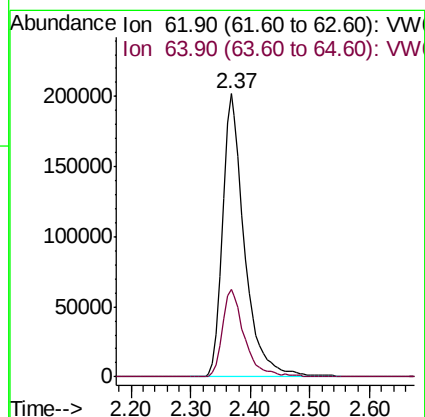
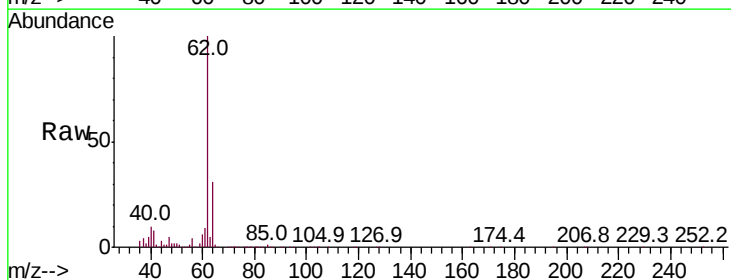
Acq: 19 Mar 2019 13:13

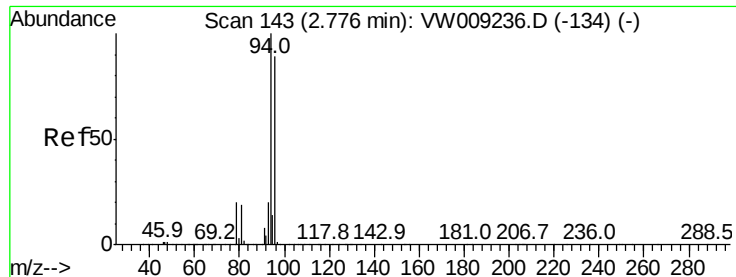
Tgt Ion: 62 Resp: 514318

Ion Ratio Lower Upper

62 100

64 30.8 26.2 39.2





#5

Bromomethane

Concen: 145.385 ug/l

RT: 2.77 min Scan# 142

Delta R.T. -0.01 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion: 94 Resp: 420773

Ion Ratio Lower Upper

94 100

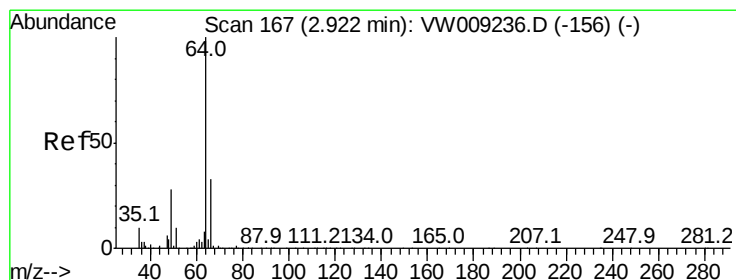
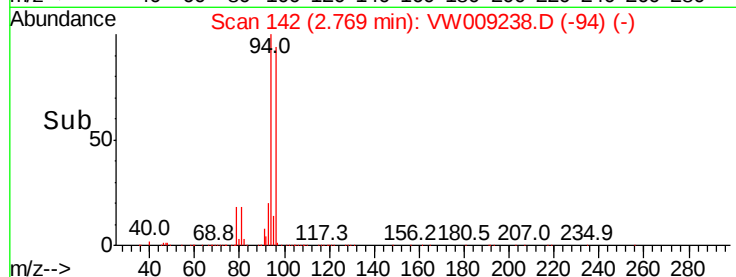
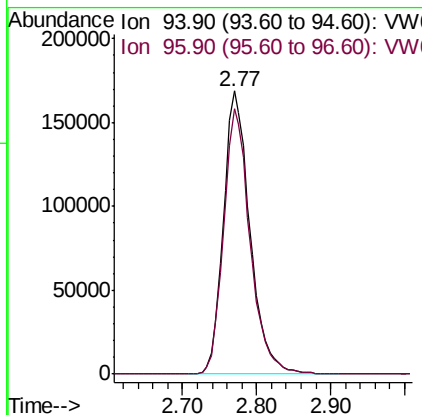
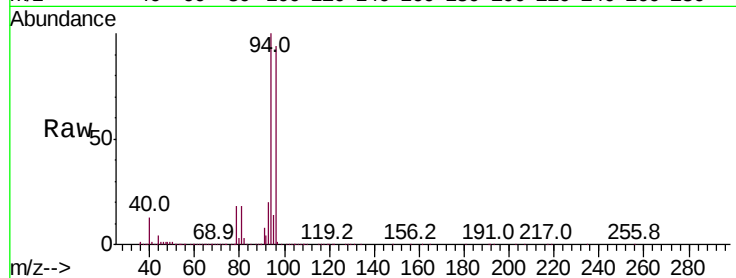
96 93.5 71.4 107.2

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:53:03 AM



#6

Chloroethane

Concen: 150.681 ug/l

RT: 2.92 min Scan# 167

Delta R.T. 0.00 min

Lab File: VW009238.D

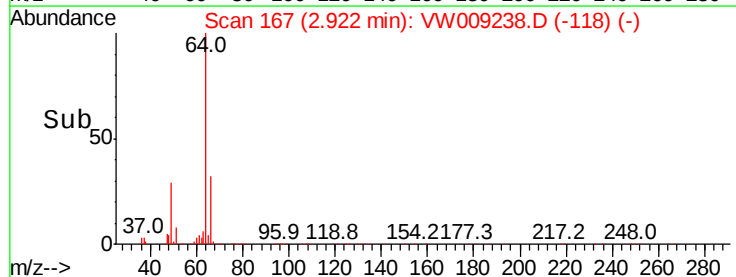
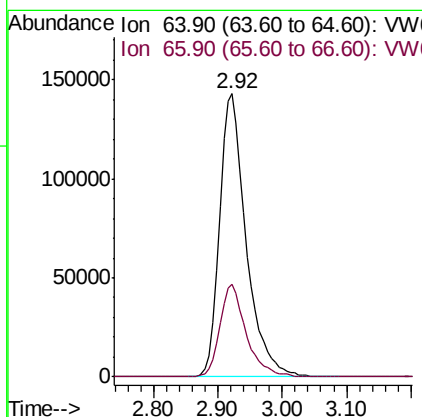
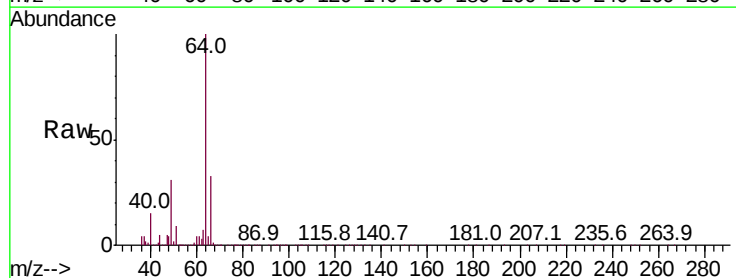
Acq: 19 Mar 2019 13:13

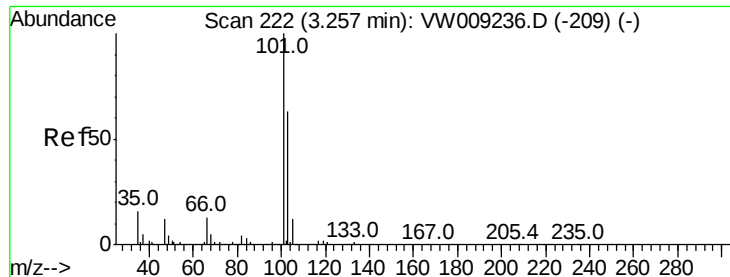
Tgt Ion: 64 Resp: 414888

Ion Ratio Lower Upper

64 100

66 32.5 26.2 39.2





#7

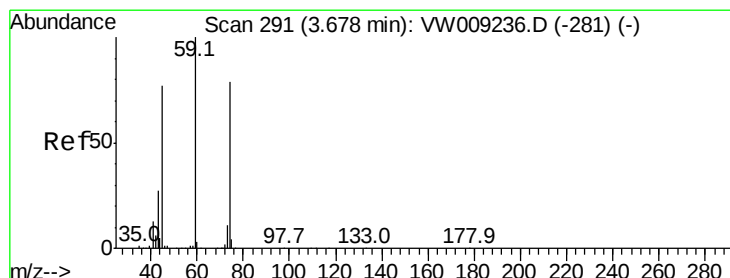
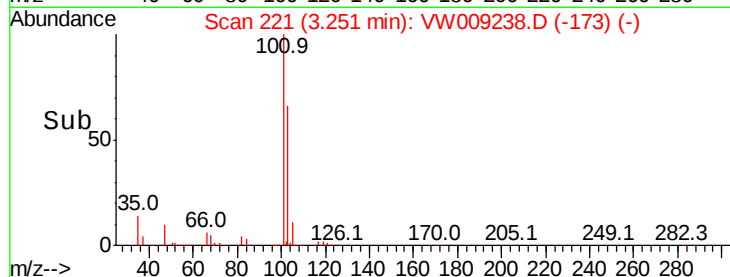
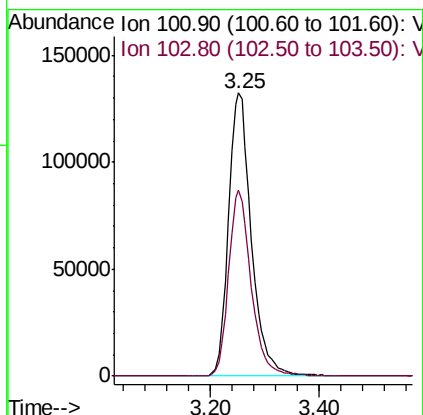
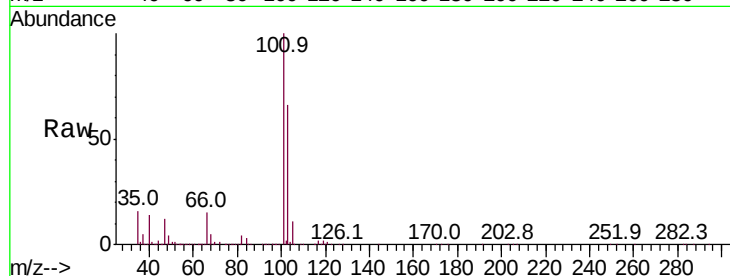
Trichlorofluoromethane
Concen: 166.900 ug/l
RT: 3.25 min Scan# 221
Delta R.T. -0.01 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.6	50.5	75.7

Manual Integrations
APPROVED

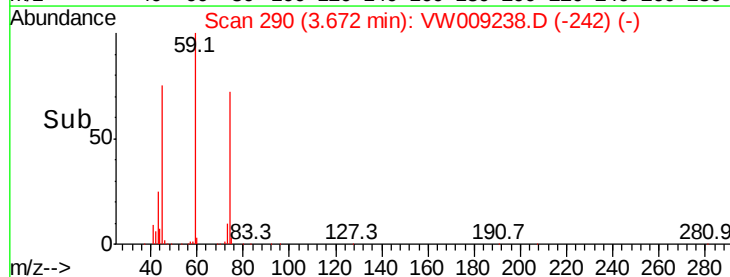
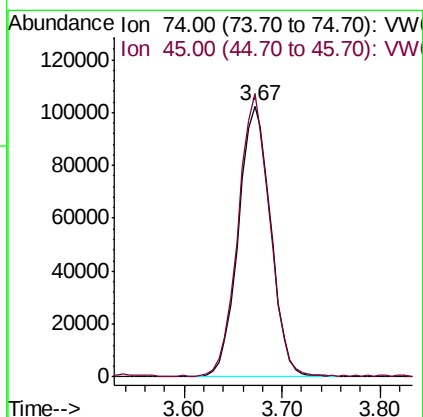
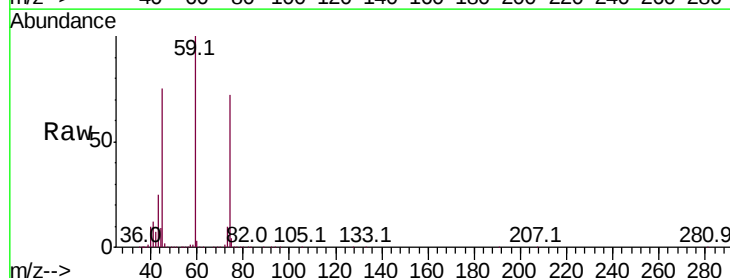
MMDadoda
3/22/2019 3:53:03 AM

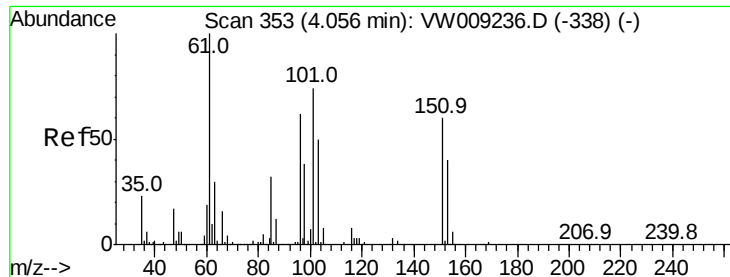


#8

Diethyl Ether
Concen: 140.434 ug/l
RT: 3.67 min Scan# 290
Delta R.T. -0.01 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
74	100		
45	101.5	50.6	151.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 134.786 ug/l

RT: 4.06 min Scan# 353

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

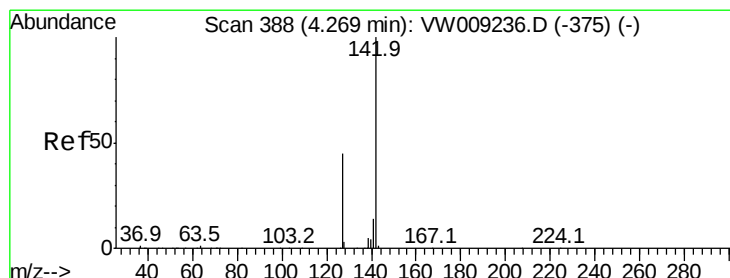
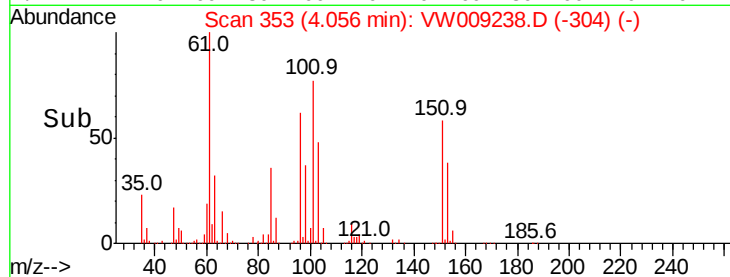
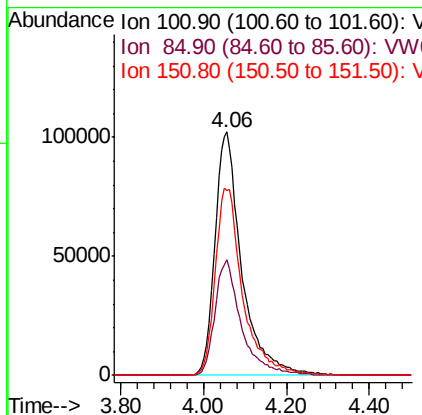
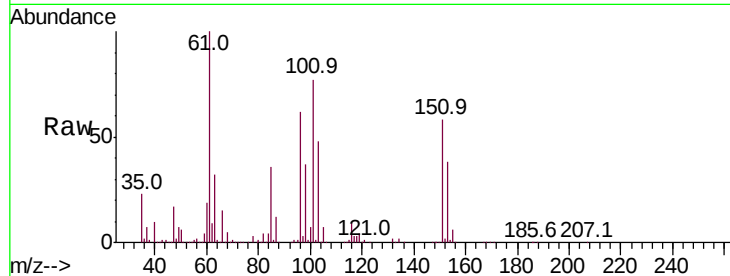
ClientSampled :

VSTDIC150

Tot Ion:	101	Resp:	453927
Ion Ratio	Lower	Upper	
101	100		
85	46.9	35.1	52.7
151	78.6	62.9	94.3

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM



#10

Methyl Iodide

Concen: 138.238 ug/l

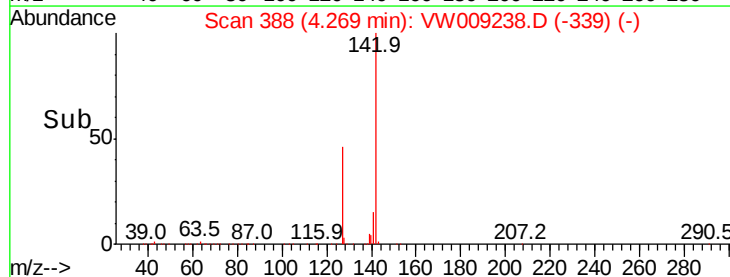
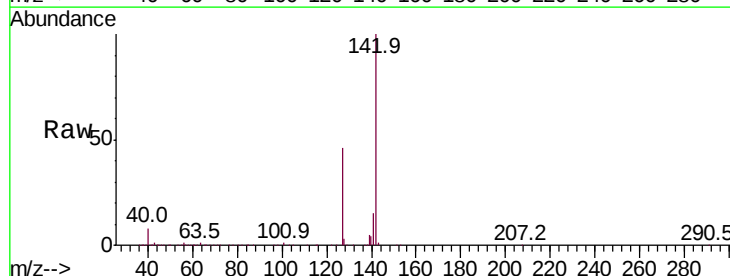
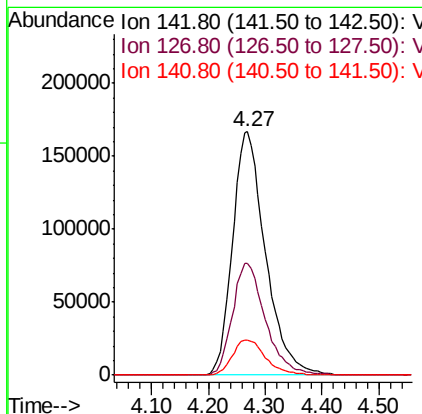
RT: 4.27 min Scan# 388

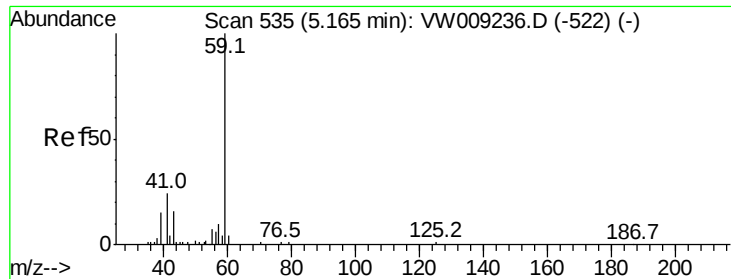
Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Tgt Ion:	142	Resp:	671118
Ion Ratio	Lower	Upper	
142	100		
127	46.3	35.9	53.9
141	14.8	11.4	17.2





#11

Tert butyl alcohol

Concen: 782.755 ug/l

RT: 5.17 min Scan# 536

Delta R.T. 0.01 min

Lab File: VW009238.D

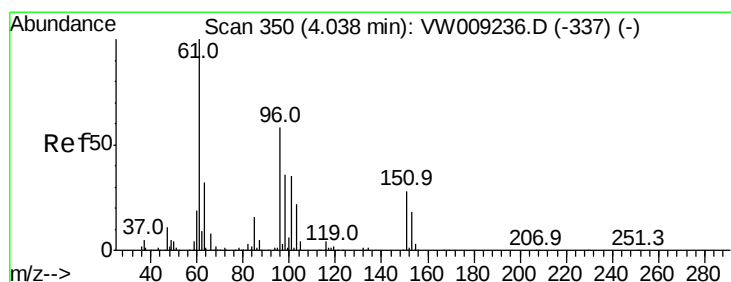
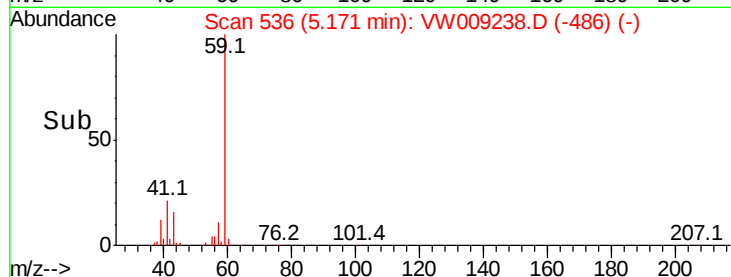
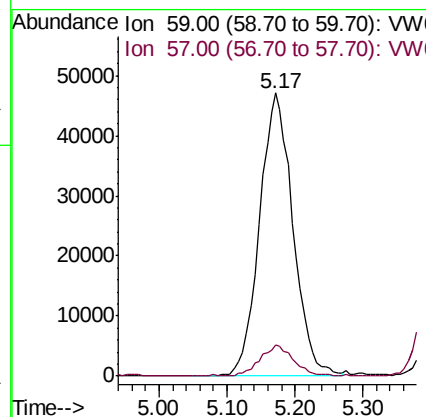
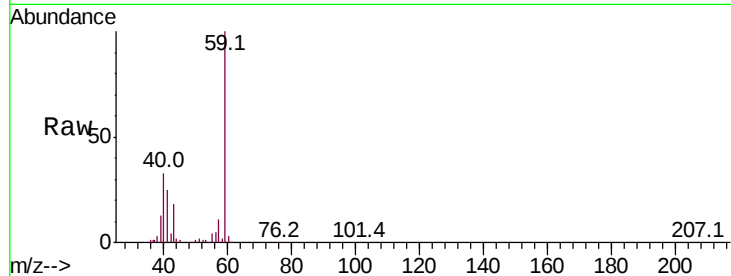
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion	59	57	Ratio	100	Resp	Lower	Upper
59	100				161155		
57	11.1					9.4	14.0

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM



#12

1,1-Dichloroethene

Concen: 138.940 ug/l

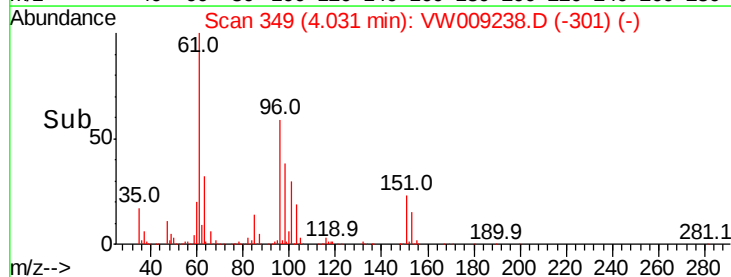
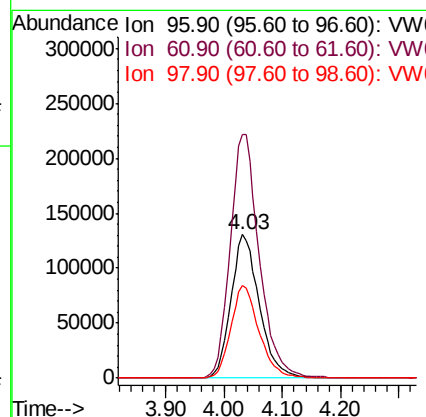
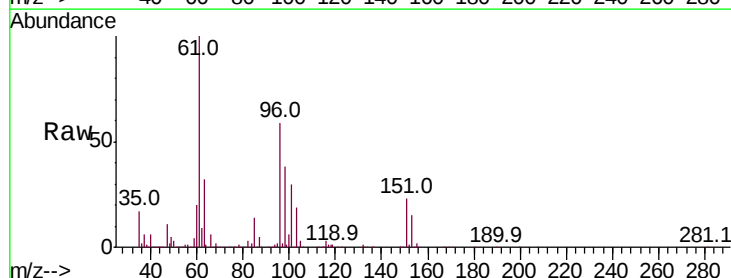
RT: 4.03 min Scan# 349

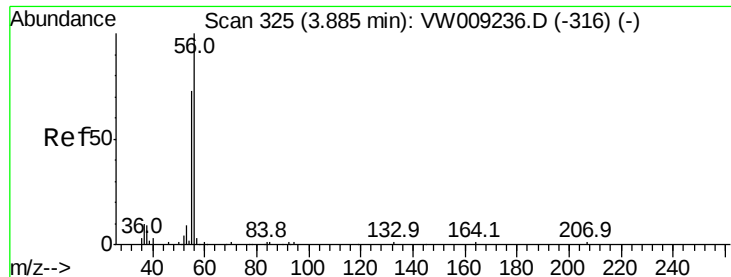
Delta R.T. -0.01 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Tgt Ion	96	61	98	Ratio	100	Resp	Lower	Upper
96	100				442311			
61	169.6					138.0	207.0	
98	64.6					49.8	74.8	





#13

Acrolein

Concen: 719.088 ug/l

RT: 3.89 min Scan# 325

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion: 56 Resp: 120902

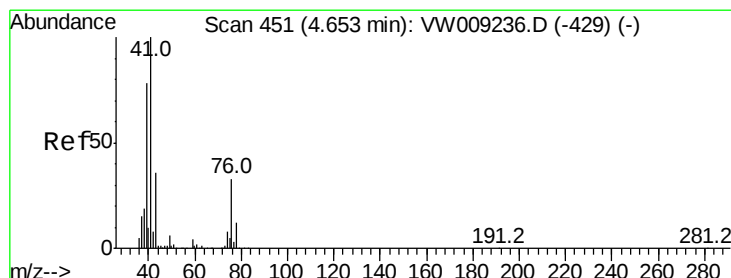
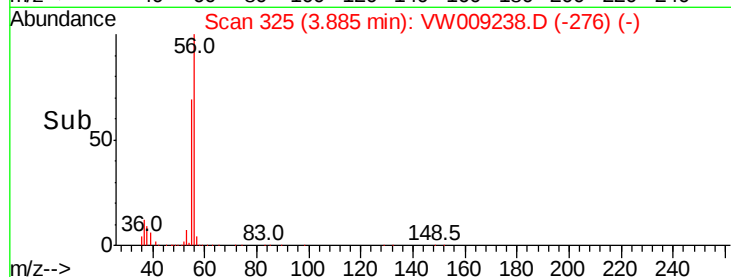
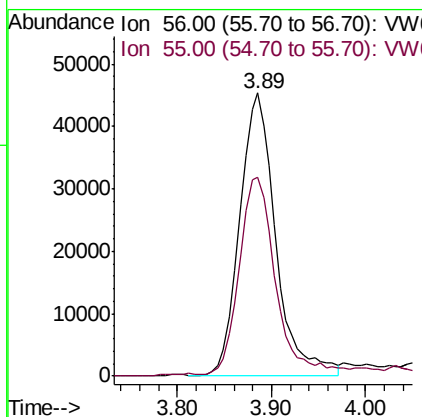
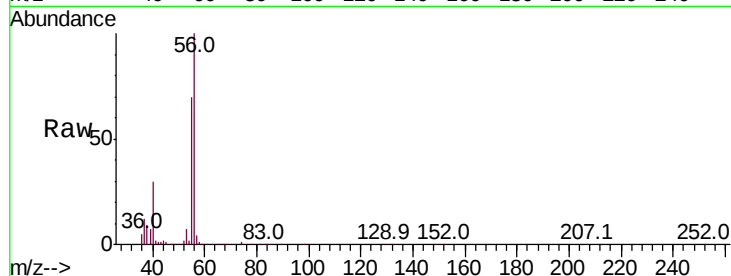
Ion Ratio Lower Upper

56 100

55 70.4 55.2 82.8

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM



#14

Allyl chloride

Concen: 149.979 ug/l

RT: 4.66 min Scan# 452

Delta R.T. 0.01 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

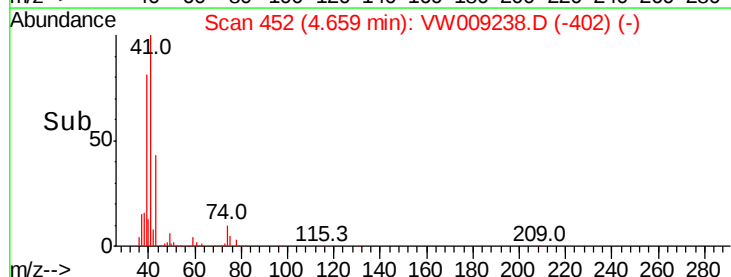
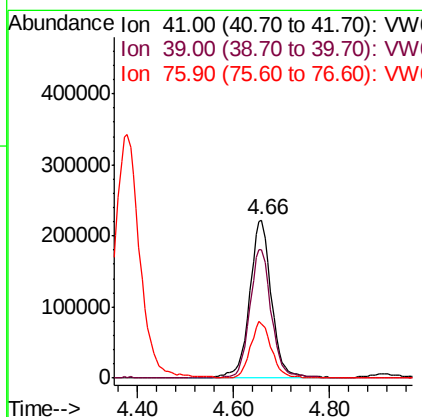
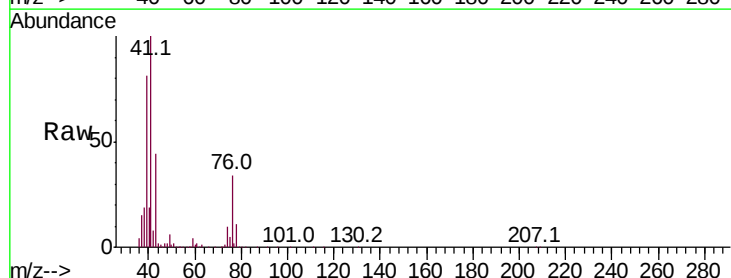
Tgt Ion: 41 Resp: 703872

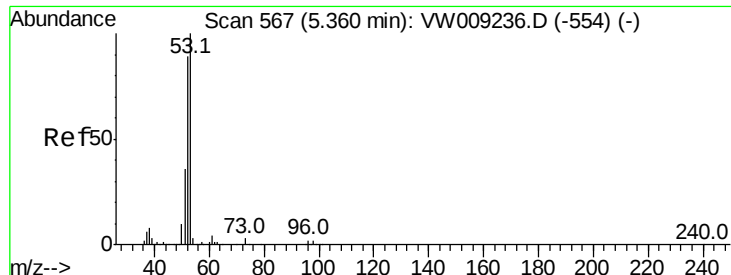
Ion Ratio Lower Upper

41 100

39 80.5 63.8 95.6

76 33.8 27.8 41.6





#15

Acrylonitrile

Concen: 770.082 ug/l

RT: 5.36 min Scan# 567

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

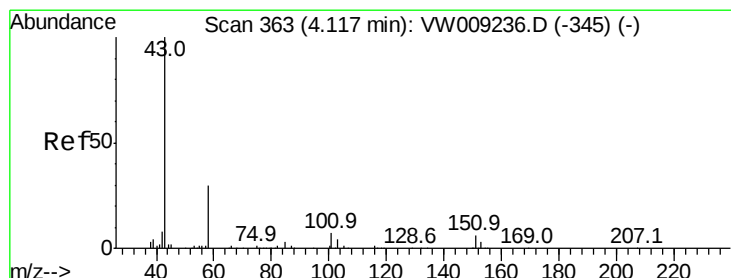
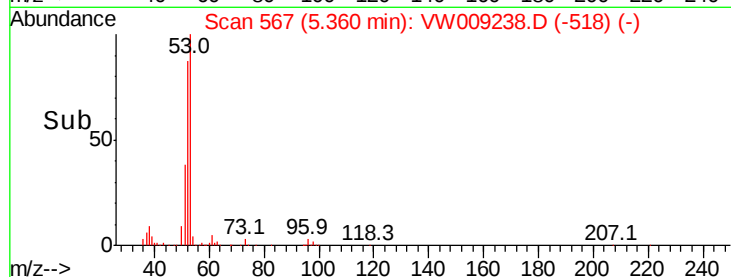
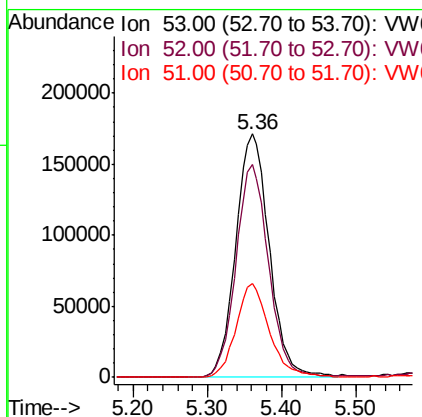
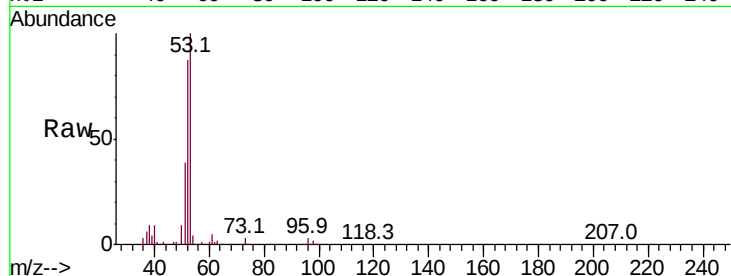
ClientSampleId :

VSTDIC150

Tot Ion:	53	Resp:	542628
Ion Ratio	Lower	Upper	
53	100		
52	85.1	67.6	101.4
51	38.3	30.6	45.8

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM



#16

Acetone

Concen: 718.859 ug/l

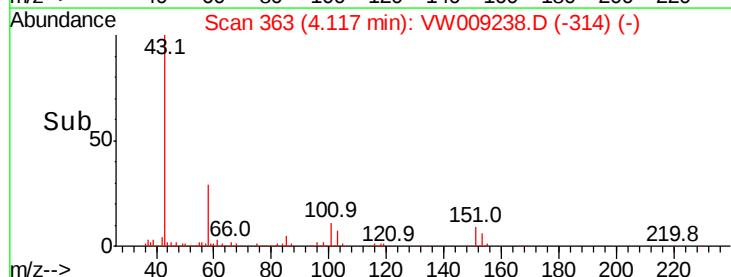
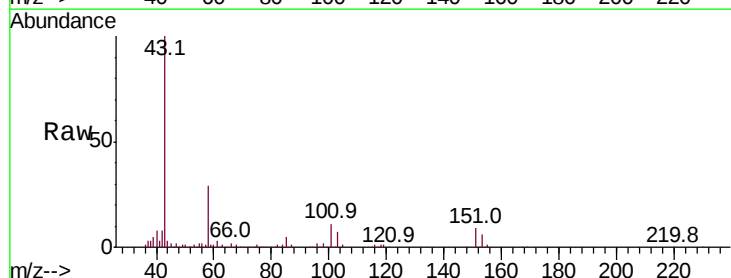
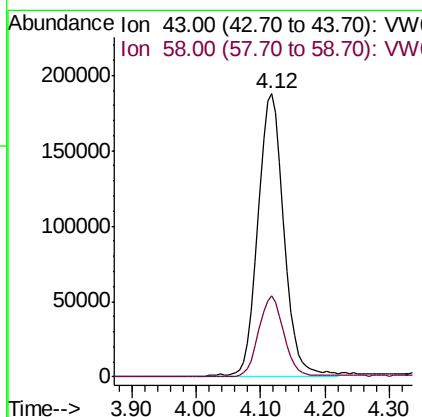
RT: 4.12 min Scan# 363

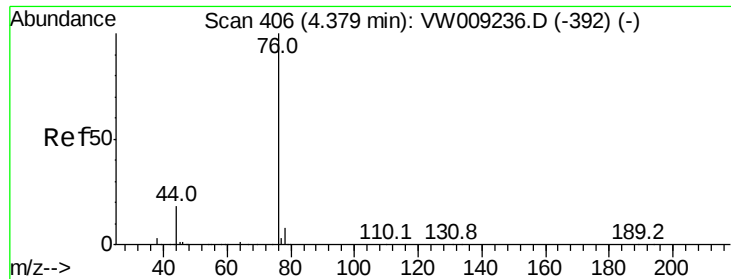
Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Tgt Ion:	43	Resp:	523287
Ion Ratio	Lower	Upper	
43	100		
58	28.7	23.6	35.4





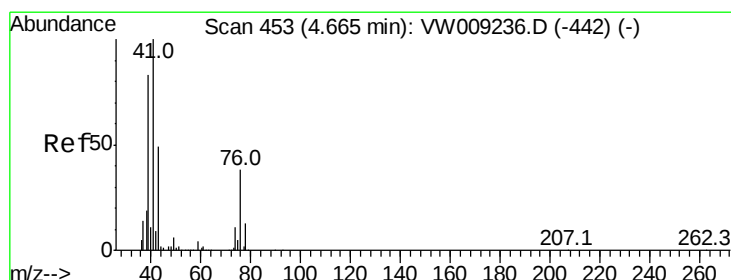
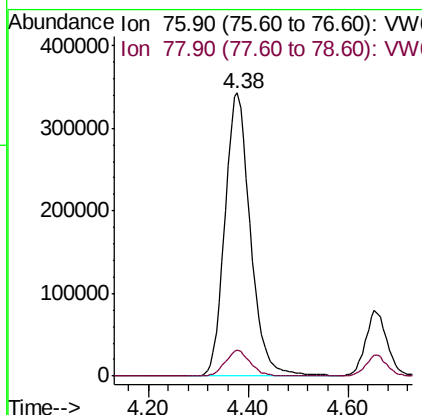
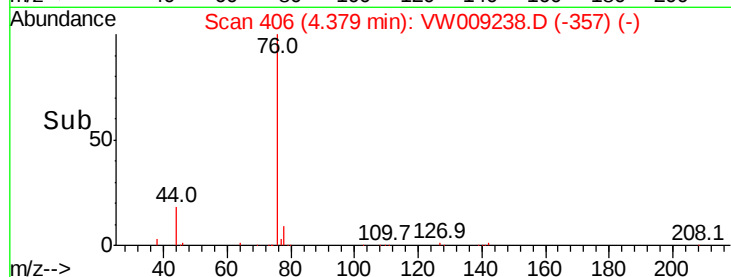
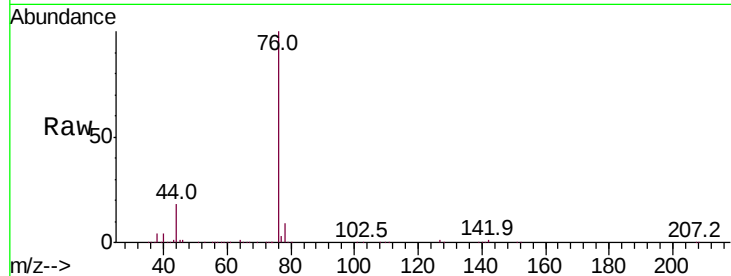
#17
Carbon Disulfide
Concen: 137.413 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion: 76 Resp: 1219516
Ion Ratio Lower Upper
76 100
78 9.2 6.6 9.8

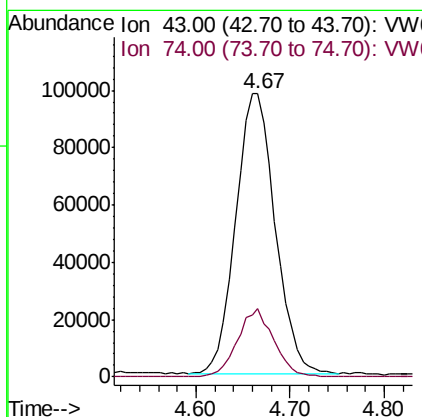
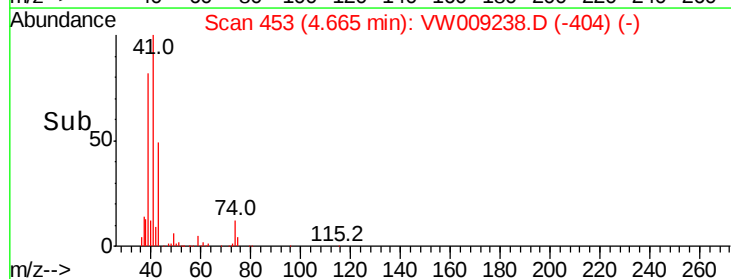
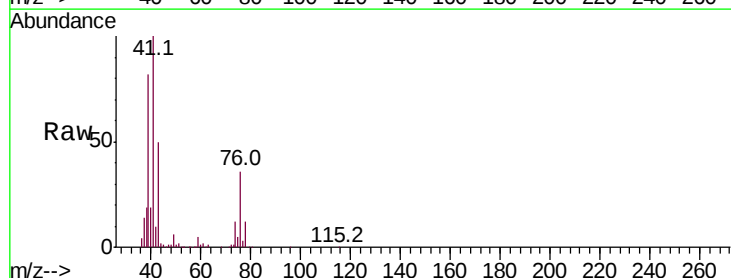
Manual Integrations
APPROVED

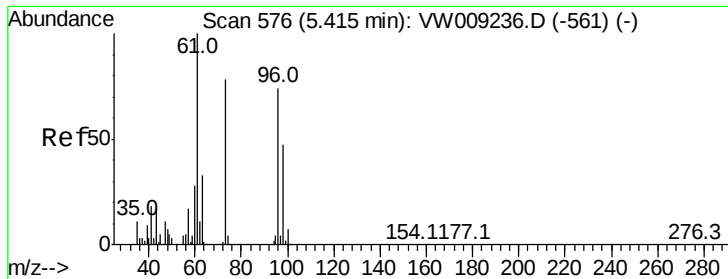
MMDadoda
3/22/2019 3:53:03 AM



#18
Methyl Acetate
Concen: 154.288 ug/l
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion: 43 Resp: 288244
Ion Ratio Lower Upper
43 100
74 22.2 17.7 26.5





#19

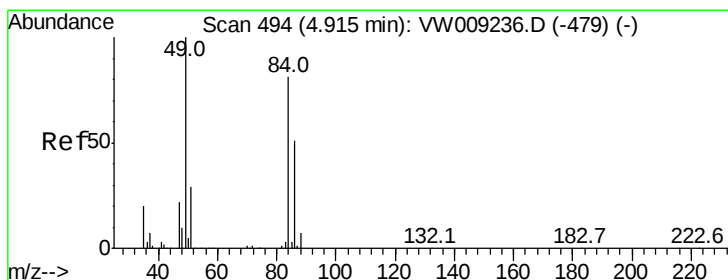
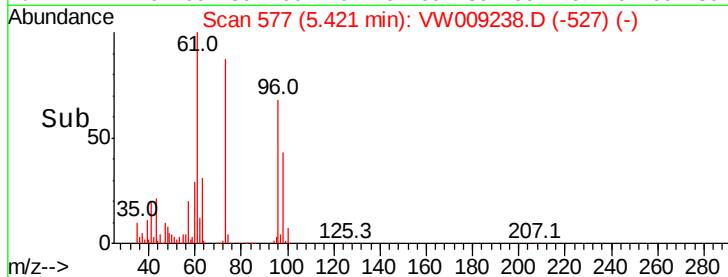
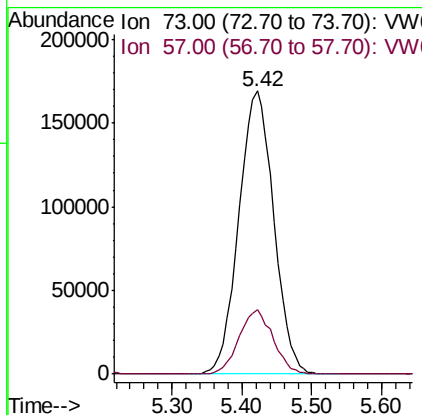
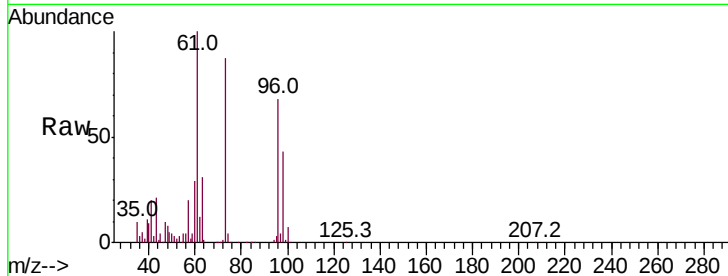
Methyl tert-butyl Ether
 Concen: 150.112 ug/l
 RT: 5.42 min Scan# 577
 Delta R.T. 0.01 min
 Lab File: VW009238.D
 Acq: 19 Mar 2019 13:13

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.0	17.0	25.6

Manual Integrations
 APPROVED

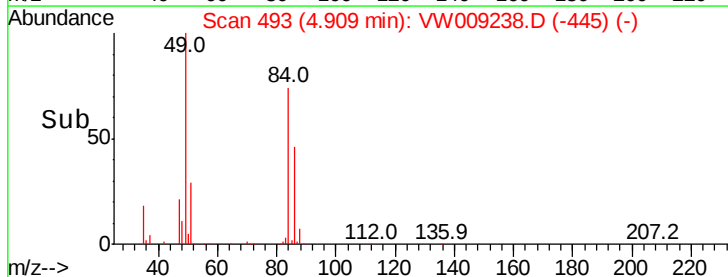
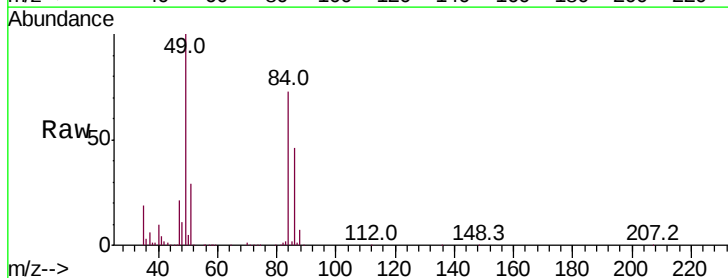
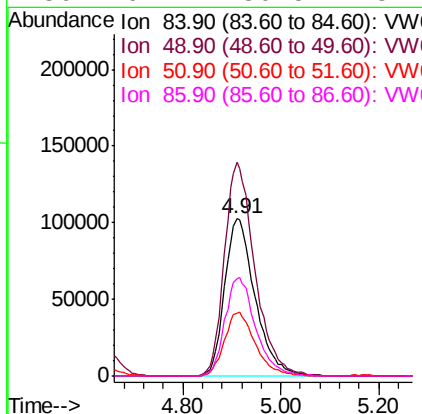
MMDadoda
 3/22/2019 3:53:03 AM

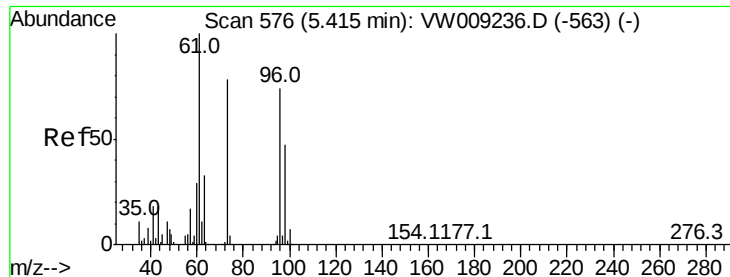


#20

Methylene Chloride
 Concen: 130.363 ug/l
 RT: 4.91 min Scan# 493
 Delta R.T. -0.01 min
 Lab File: VW009238.D
 Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
84	100		
49	136.1	99.1	148.7
51	40.0	28.7	43.1
86	62.2	50.5	75.7





#21

trans-1,2-Dichloroethene

Concen: 143.805 ug/l

RT: 5.41 min Scan# 575

Delta R.T. -0.01 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion: 96 Resp: 470997

Ion Ratio Lower Upper

96 100

61 141.9 108.2 162.4

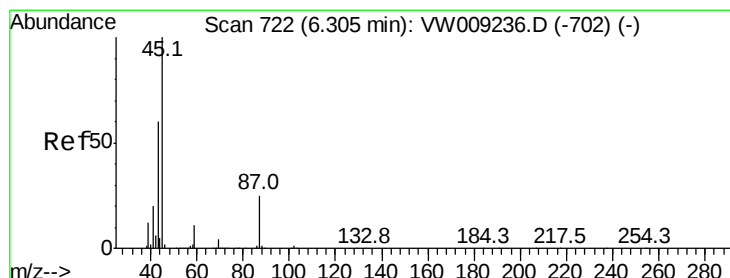
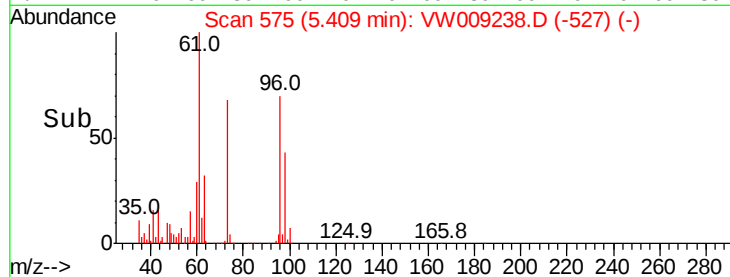
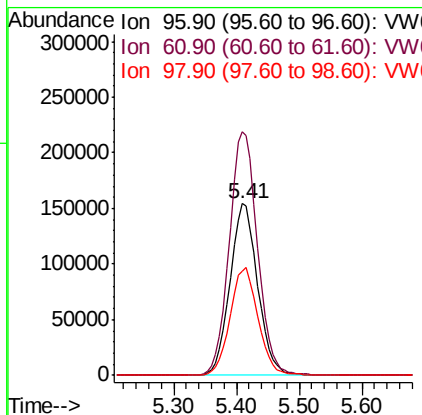
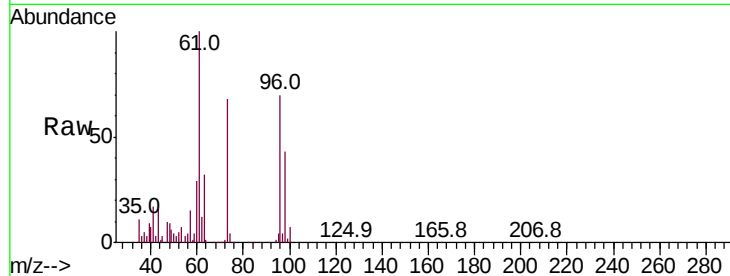
98 60.9 50.9 76.3

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:53:03 AM



#22

Diisopropyl ether

Concen: 155.142 ug/l

RT: 6.31 min Scan# 722

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Tgt Ion: 45 Resp: 1569672

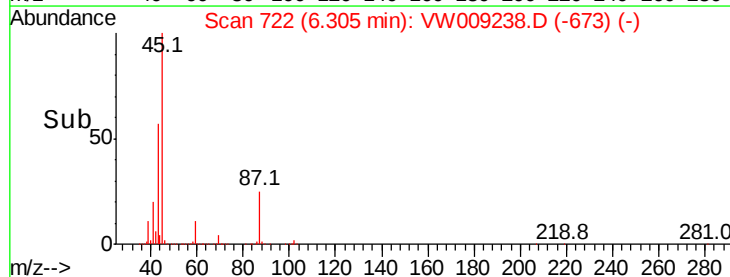
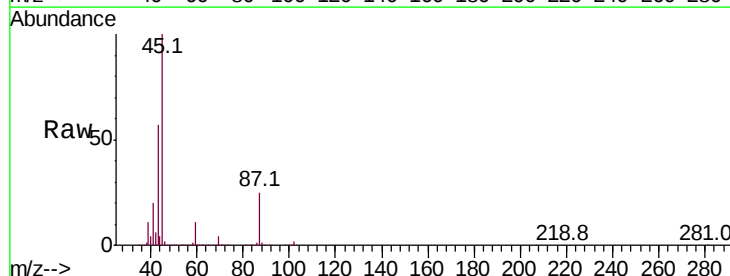
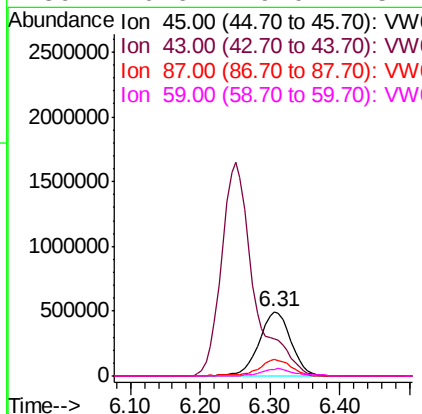
Ion Ratio Lower Upper

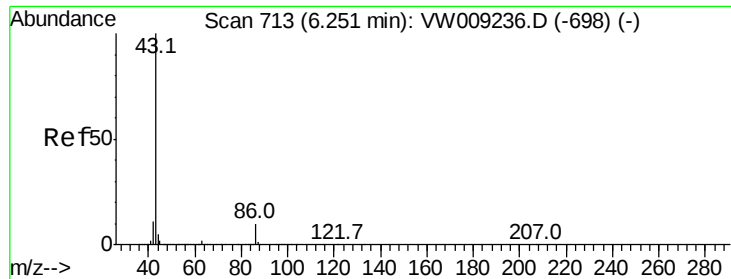
45 100

43 57.1 47.9 71.9

87 24.9 20.6 30.8

59 10.6 9.0 13.4





#23

Vinyl Acetate

Concen: 833.114 ug/l

RT: 6.25 min Scan# 713

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDICC150

Tot Ion: 43 Resp: 5288777

Ion Ratio Lower Upper

43 100

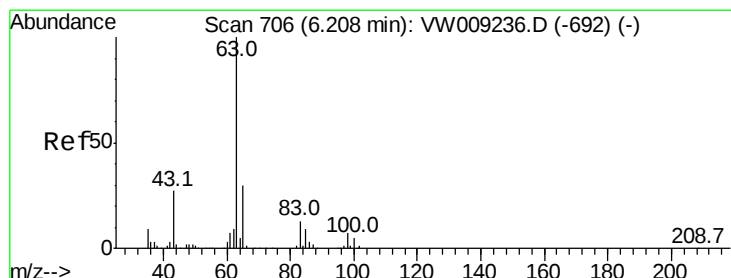
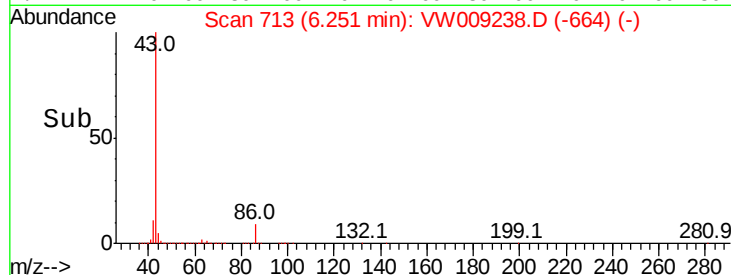
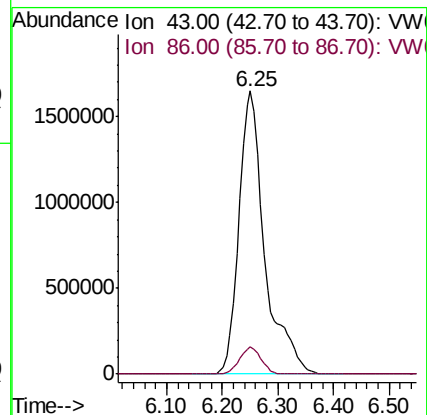
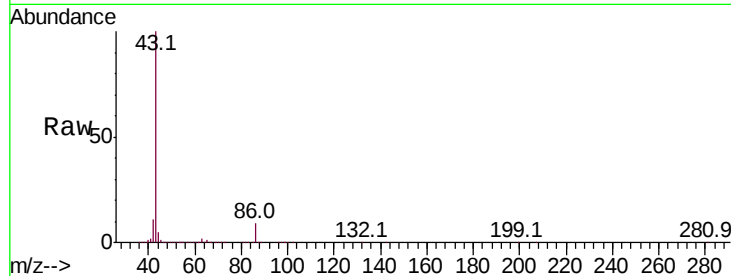
86 9.5 7.7 11.5

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:53:03 AM



#24

1,1-Dichloroethane

Concen: 143.500 ug/l

RT: 6.21 min Scan# 706

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

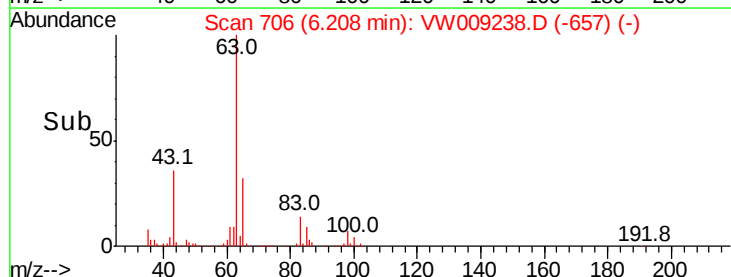
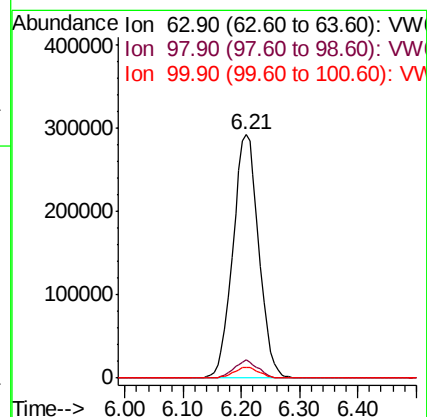
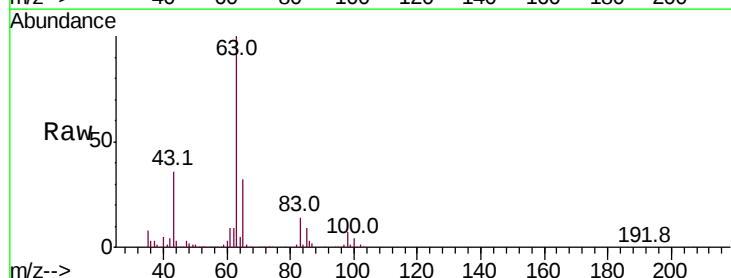
Tgt Ion: 63 Resp: 896038

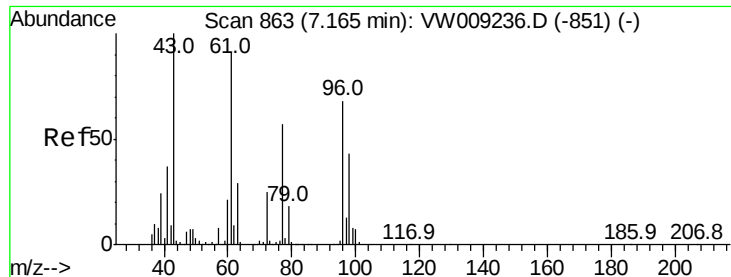
Ion Ratio Lower Upper

63 100

98 7.3 3.7 11.1

100 4.3 2.4 7.1





#25

2-Butanone

Concen: 802.323 ug/l

RT: 7.17 min Scan# 863

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 836869

Ion Ratio Lower Upper

43 100

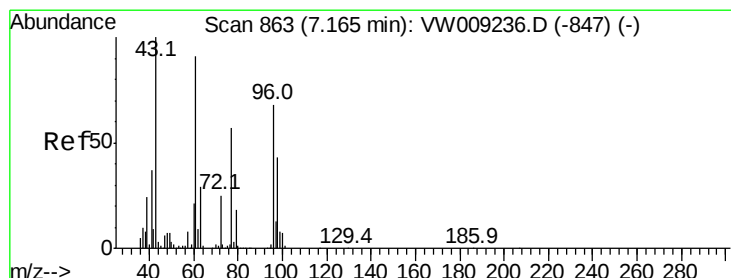
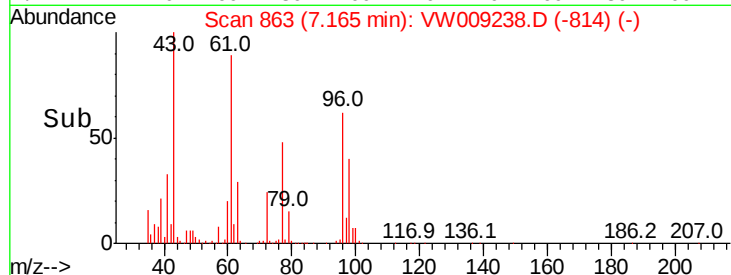
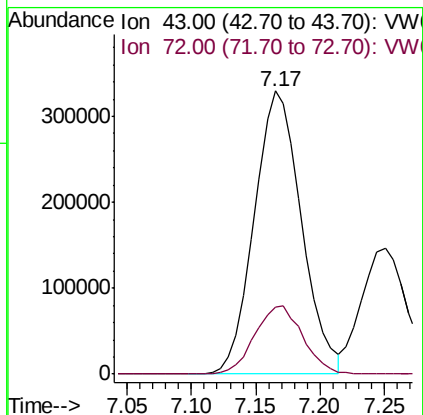
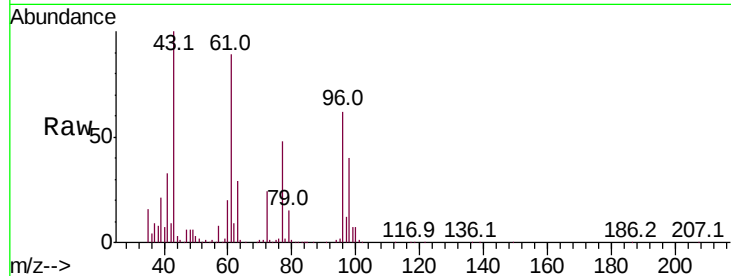
72 23.6 20.0 30.0

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:53:03 AM



#26

2,2-Dichloropropane

Concen: 137.730 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW009238.D

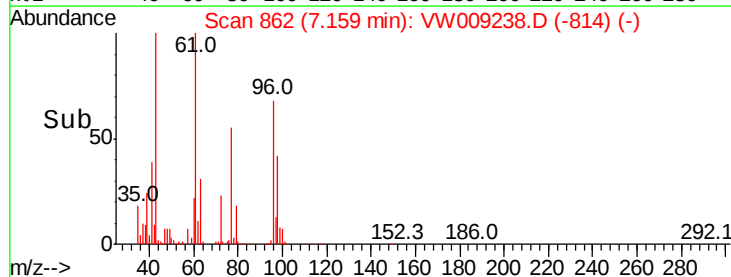
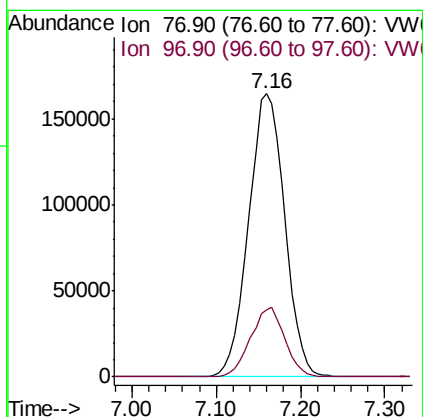
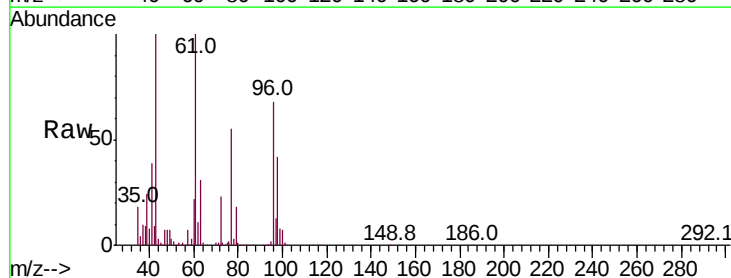
Acq: 19 Mar 2019 13:13

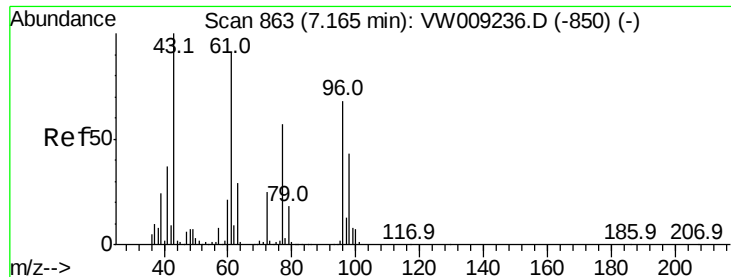
Tgt Ion: 77 Resp: 480523

Ion Ratio Lower Upper

77 100

97 23.3 11.6 34.7





#27

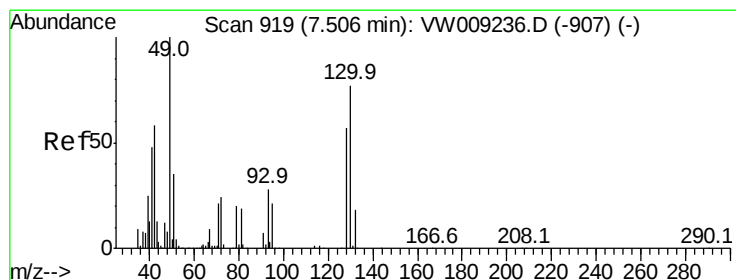
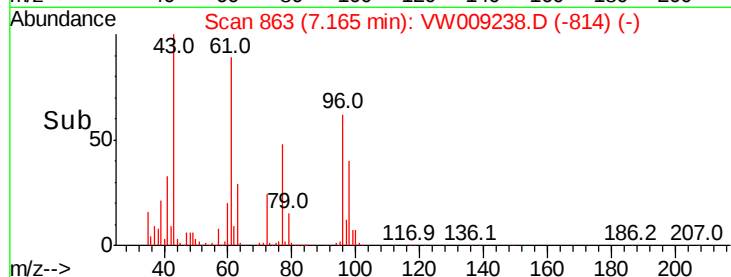
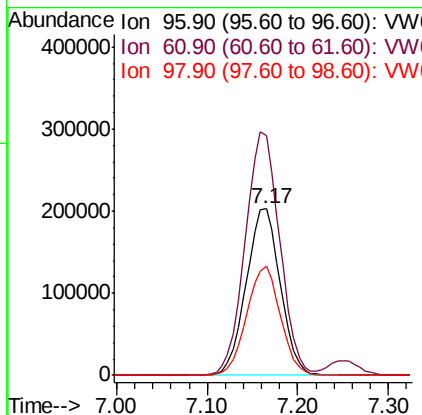
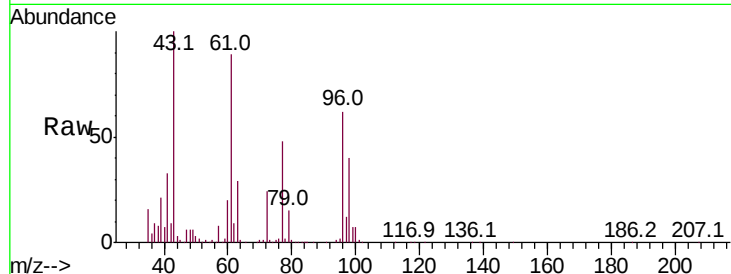
cis-1,2-Dichloroethene
Concen: 149.194 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	147.3	0.0	289.8	
98	64.5	0.0	130.8	

Manual Integrations
APPROVED

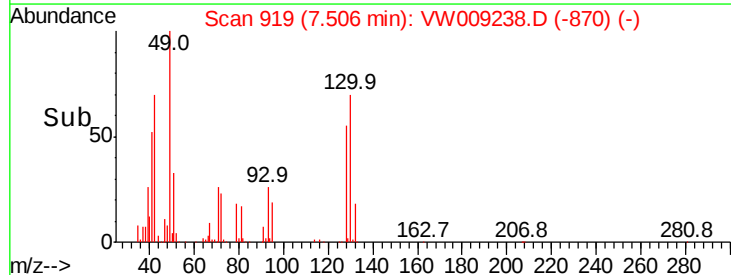
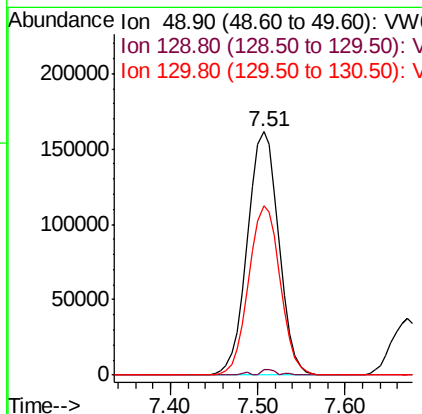
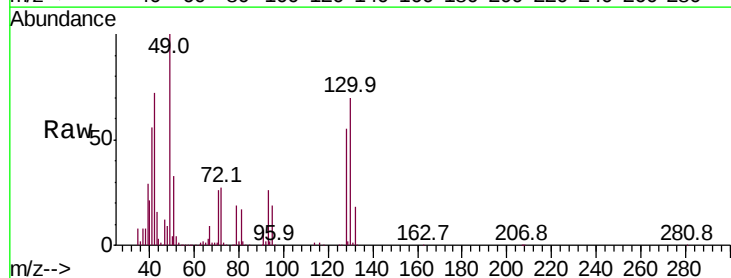
MMDadoda
3/22/2019 3:53:03 AM

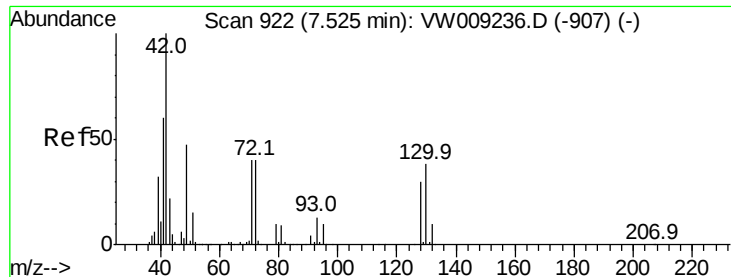


#28

Bromochloromethane
Concen: 147.140 ug/l
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.1	0.0	1.4	
130	70.2	58.6	88.0	





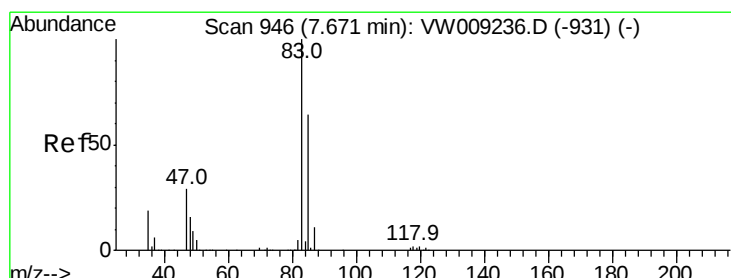
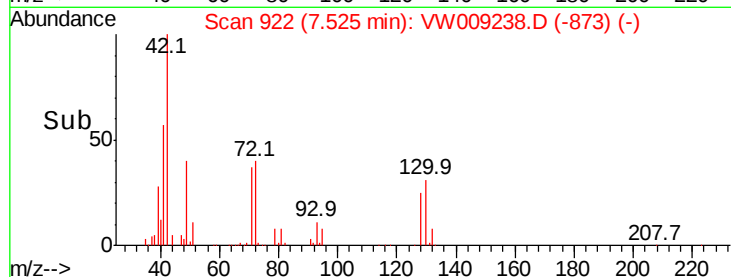
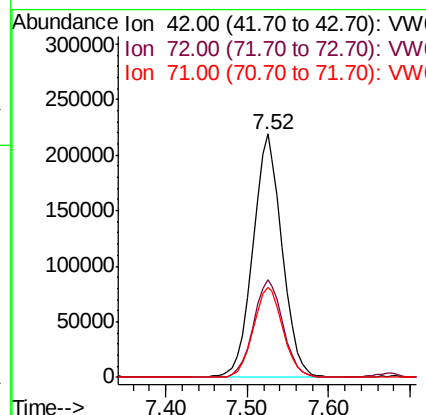
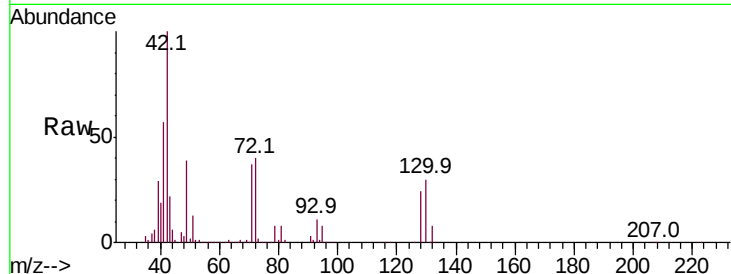
#29
Tetrahydrofuran
Concen: 822.211 ug/l
RT: 7.52 min Scan# 922
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
42	100		
72	40.4	32.4	48.6
71	37.5	30.1	45.1

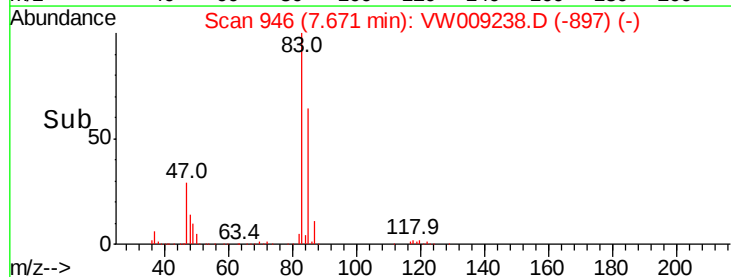
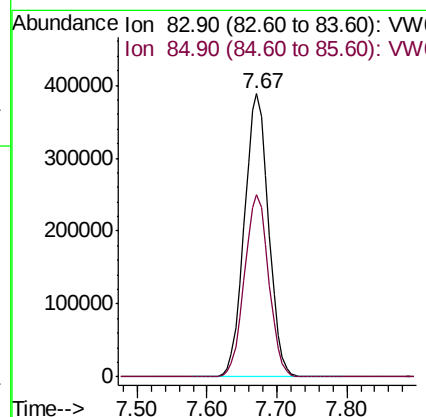
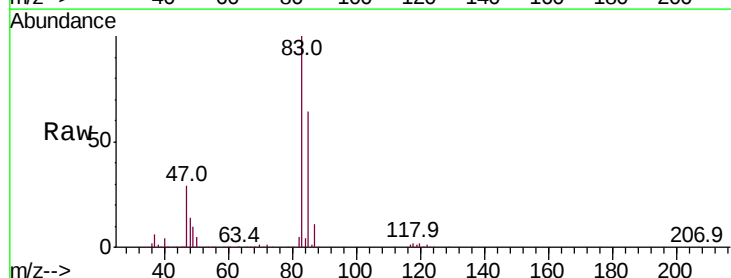
Manual Integrations
APPROVED

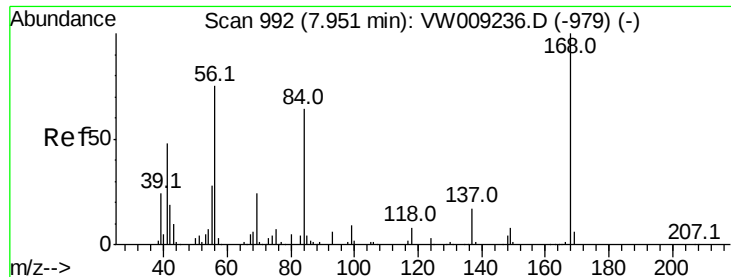
MMDadoda
3/22/2019 3:53:03 AM



#30
Chloroform
Concen: 143.090 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.2	51.0	76.6





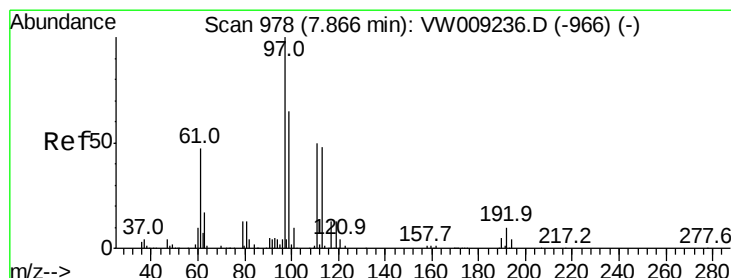
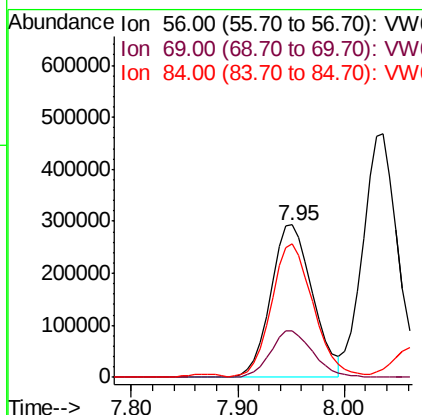
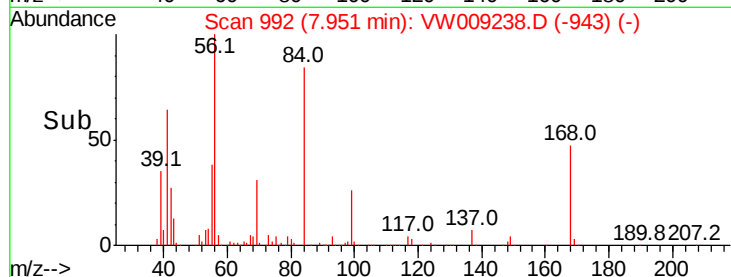
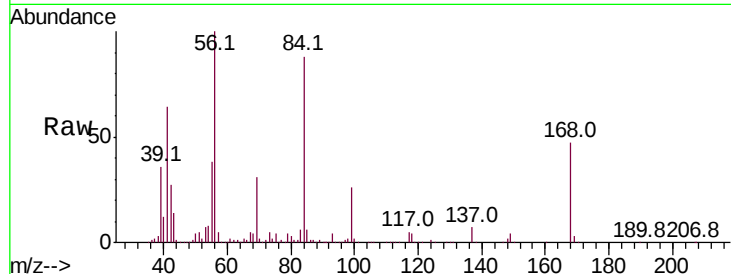
#31
Cyclohexane
Concen: 136.885 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
56	100		
69	30.7	26.1	39.1
84	86.7	68.6	103.0

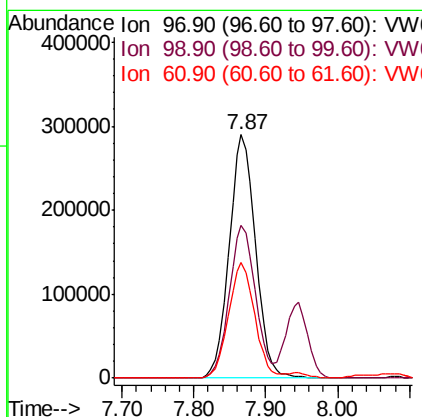
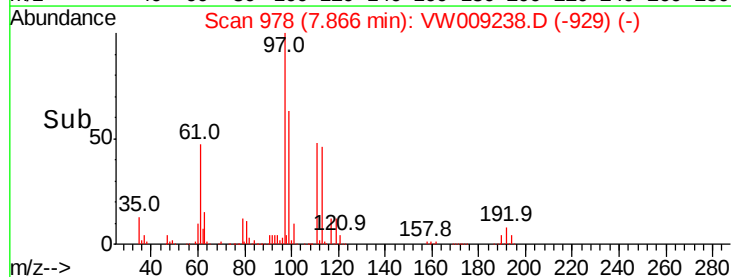
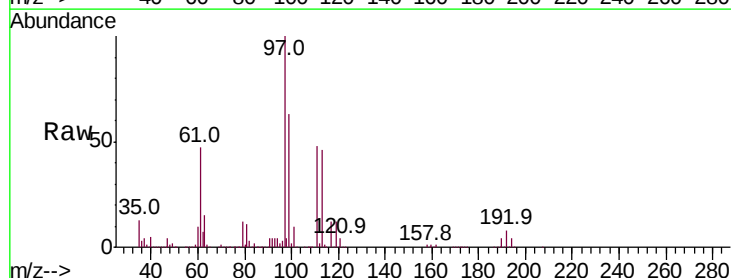
Manual Integrations
APPROVED

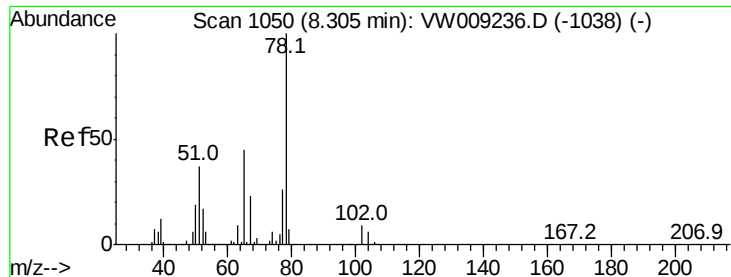
MMDadoda
3/22/2019 3:53:03 AM



#32
1,1,1-Trichloroethane
Concen: 142.215 ug/l
RT: 7.87 min Scan# 978
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
97	100		
99	62.6	51.9	77.9
61	47.1	36.8	55.2





#33

1,2-Dichloroethane-d4

Concen: 148.472 ug/l

RT: 8.30 min Scan# 1049

Delta R.T. -0.01 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion: 65 Resp: 526792

Ion Ratio Lower Upper

65 100

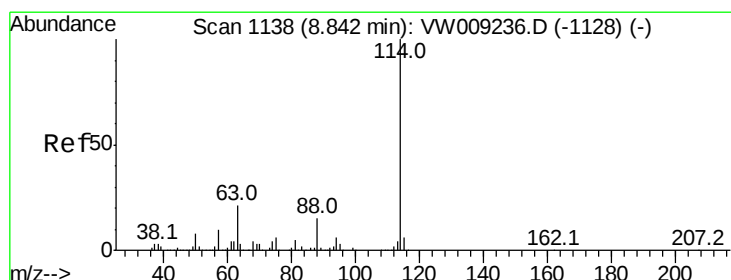
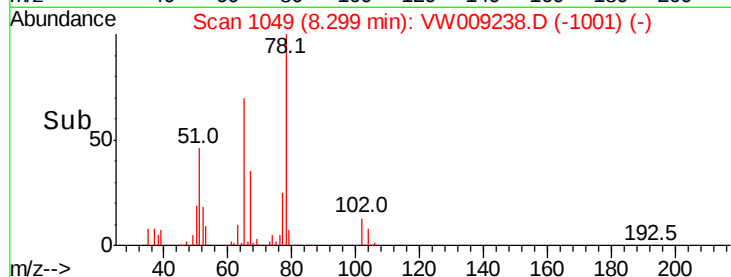
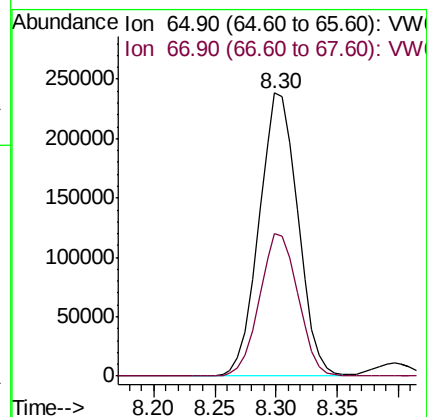
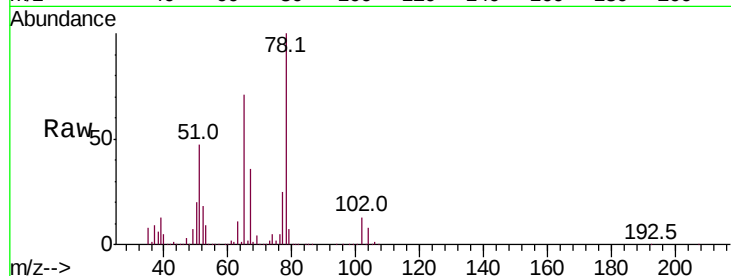
67 50.1 0.0 102.4

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:53:03 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

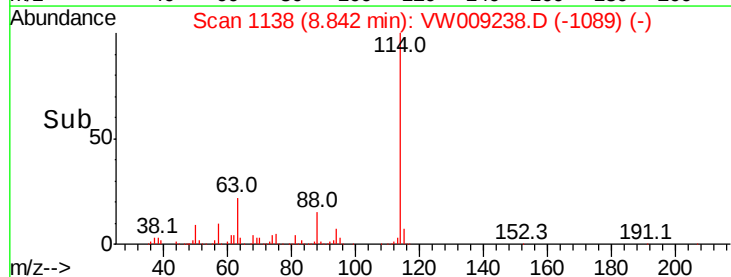
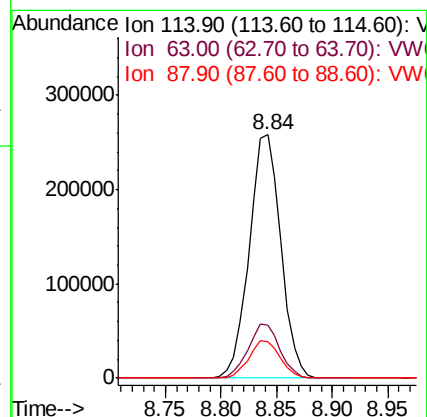
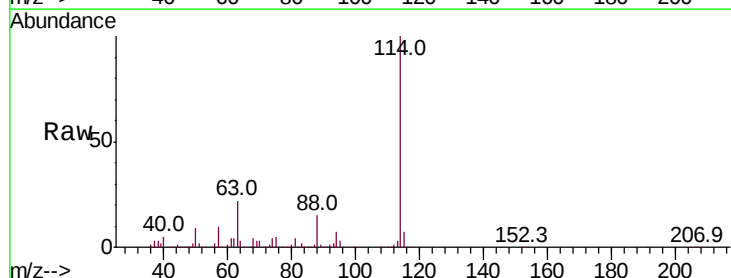
Tgt Ion: 114 Resp: 509804

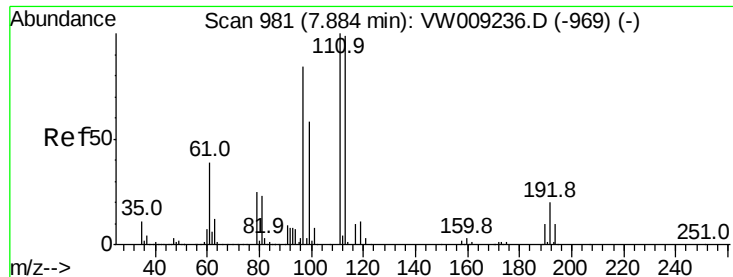
Ion Ratio Lower Upper

114 100

63 21.6 0.0 42.2

88 14.7 0.0 30.8





#35

Dibromofluoromethane

Concen: 141.067 ug/l

RT: 7.88 min Scan# 980

Delta R.T. -0.01 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

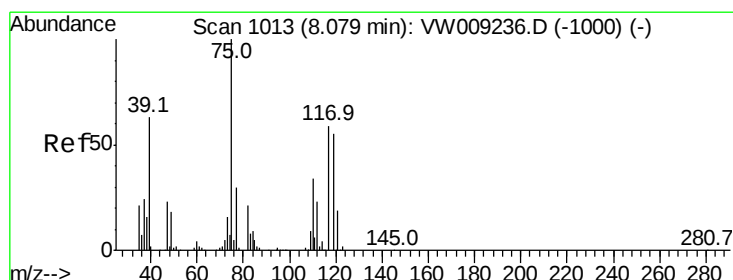
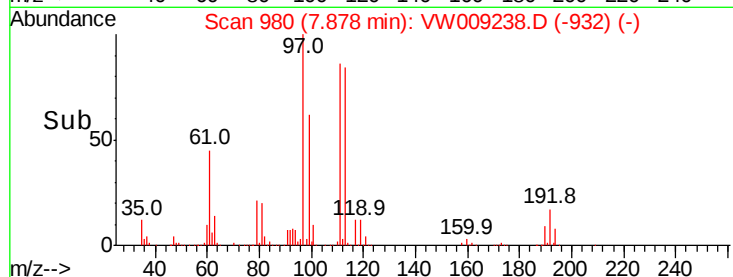
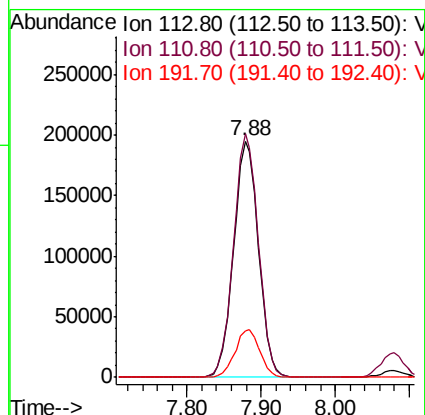
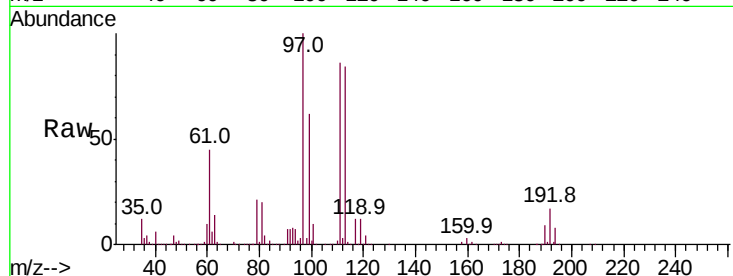
ClientSampleId :

VSTDIC150

Tot Ion:	113	Resp:	456197
Ion Ratio	Lower	Upper	
113	100		
111	103.1	82.6	124.0
192	20.2	16.4	24.6

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM



#36

1,1-Dichloropropene

Concen: 140.898 ug/l

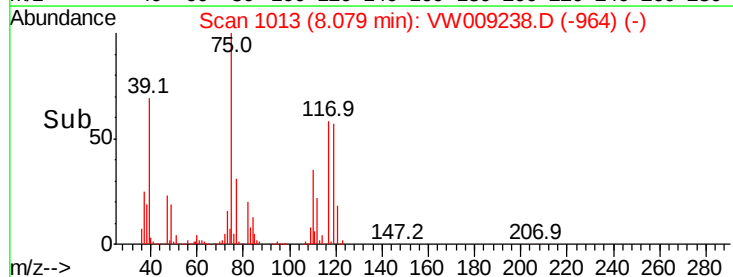
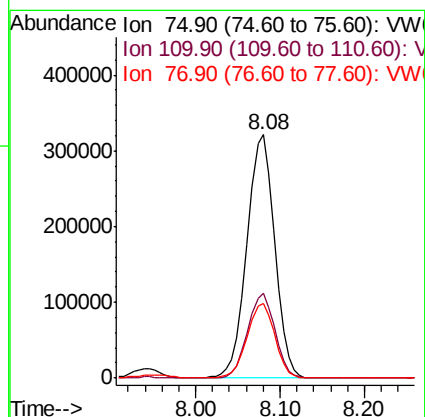
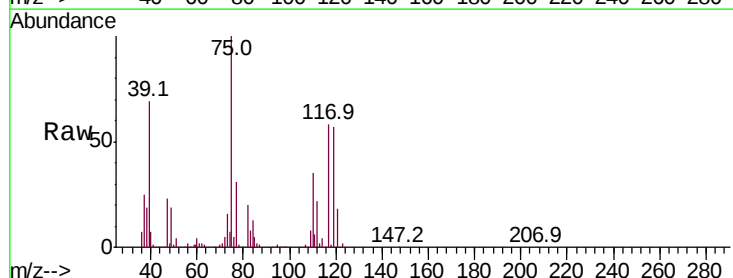
RT: 8.08 min Scan# 1013

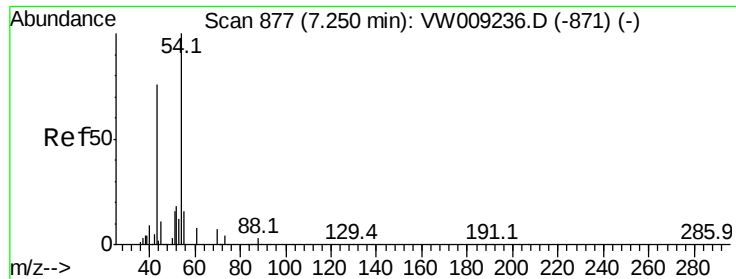
Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Tgt Ion:	75	Resp:	714783
Ion Ratio	Lower	Upper	
75	100		
110	34.3	16.8	50.4
77	31.0	24.6	36.8





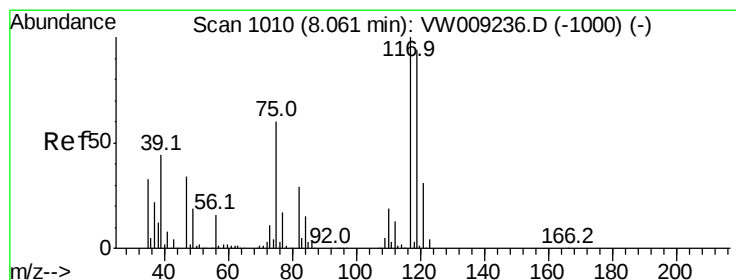
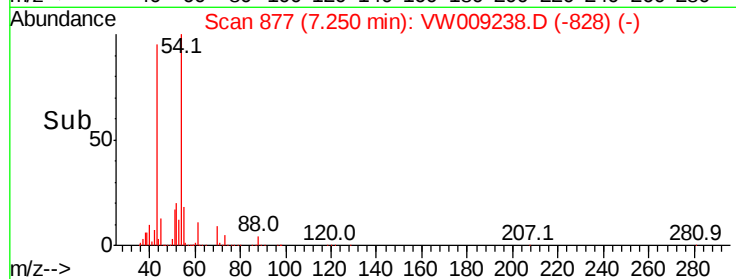
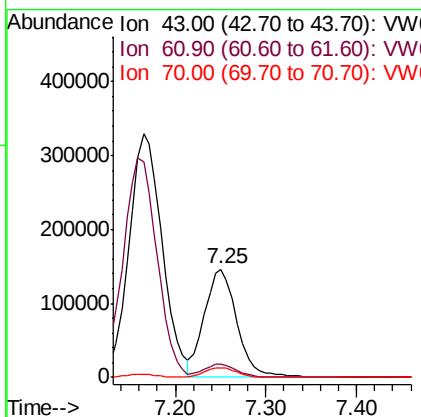
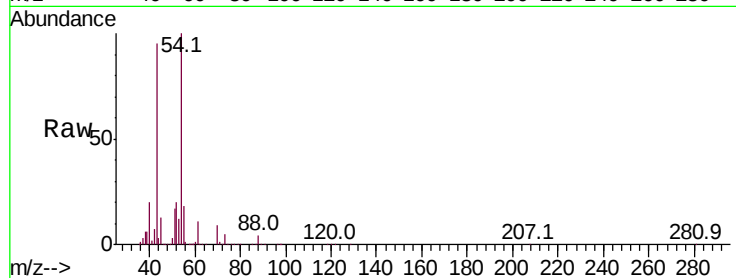
#37
Ethyl Acetate
Concen: 157.903 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
43	100		
61	11.9	10.0	15.0
70	8.8	7.3	10.9

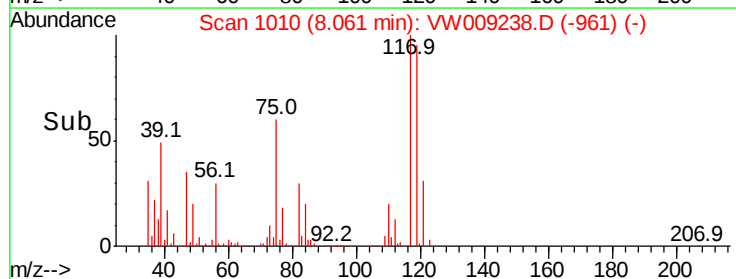
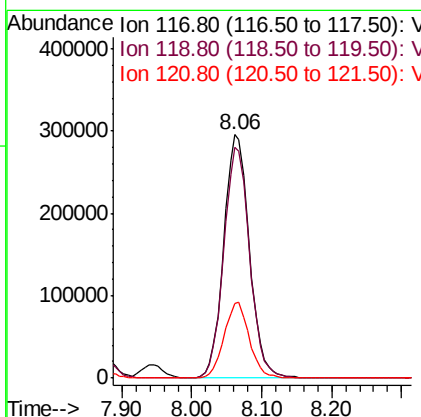
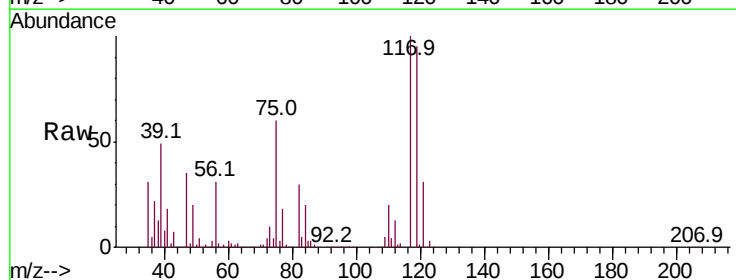
Manual Integrations
APPROVED

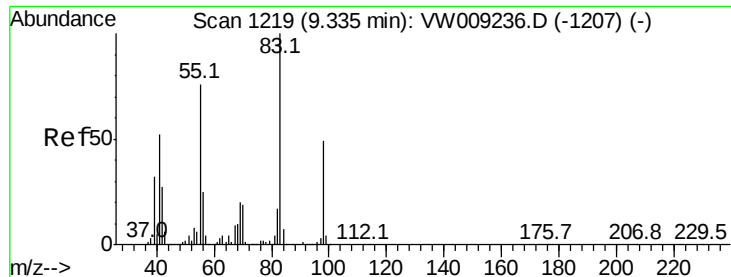
MMDadoda
3/22/2019 3:53:03 AM



#38
Carbon Tetrachloride
Concen: 140.303 ug/l
RT: 8.06 min Scan# 1010
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
117	100		
119	94.6	75.4	113.0
121	30.8	24.9	37.3





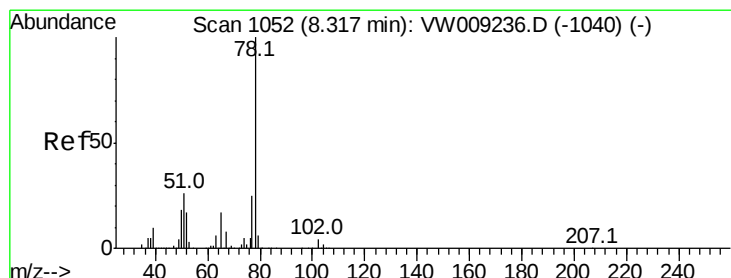
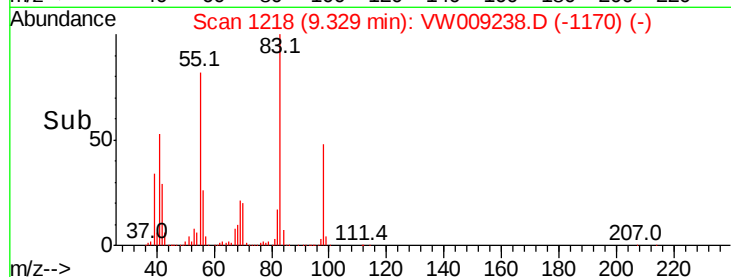
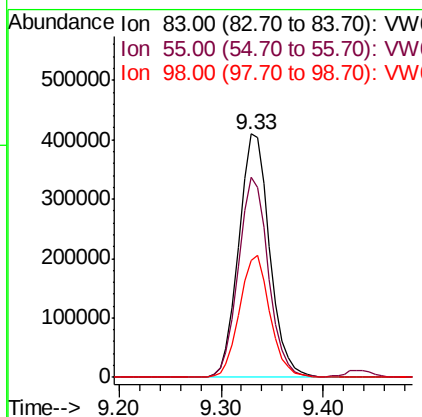
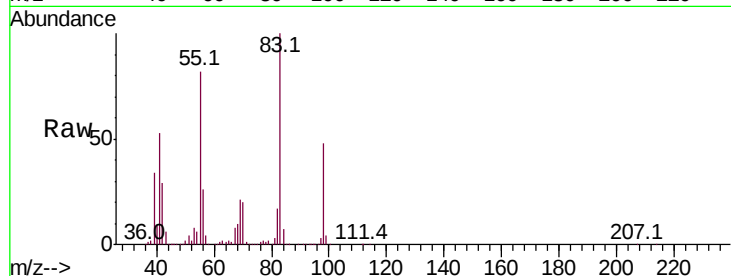
#39
Methvlcvclohexane
Concen: 146.578 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
83	100		
55	82.0	61.1	91.7
98	47.9	39.0	58.4

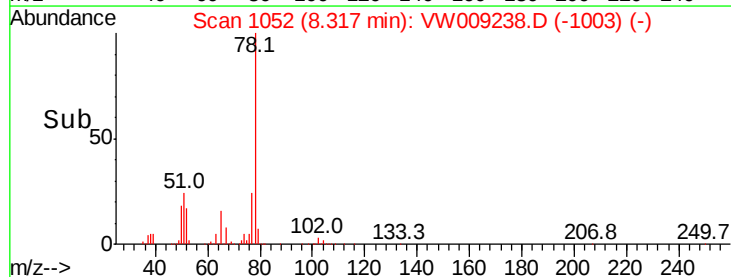
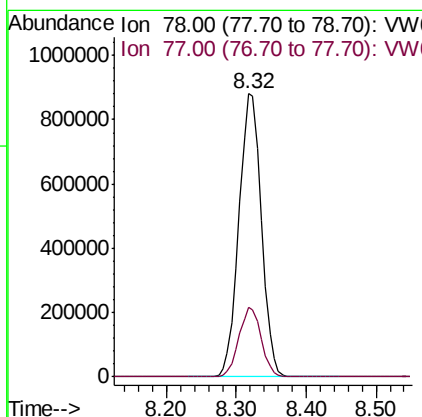
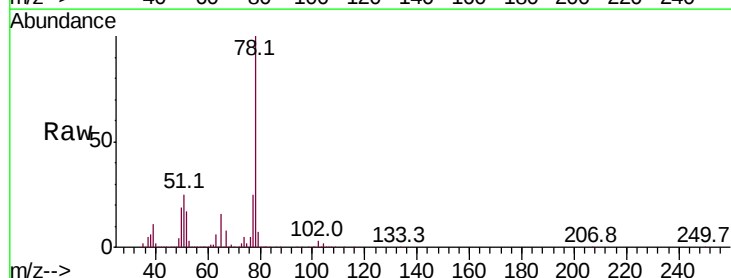
Manual Integrations
APPROVED

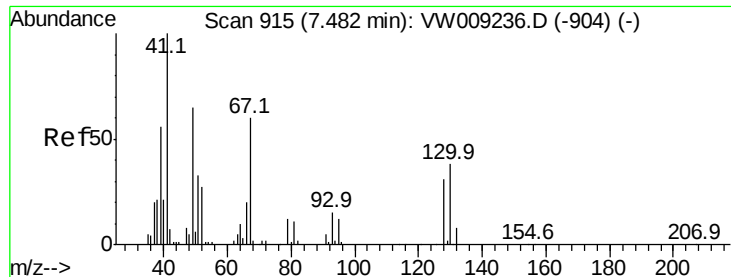
MMDadoda
3/22/2019 3:53:03 AM



#40
Benzene
Concen: 142.822 ug/l
RT: 8.32 min Scan# 1052
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.5	19.8	29.6





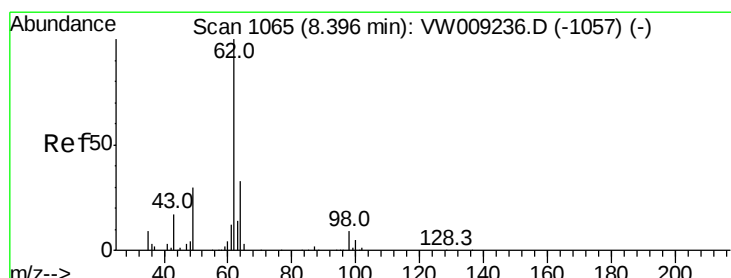
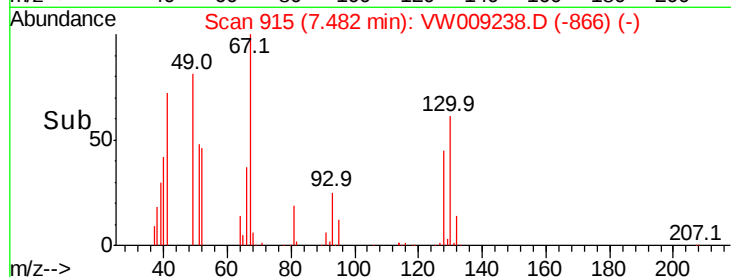
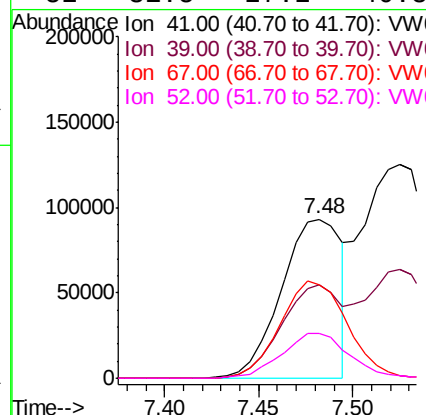
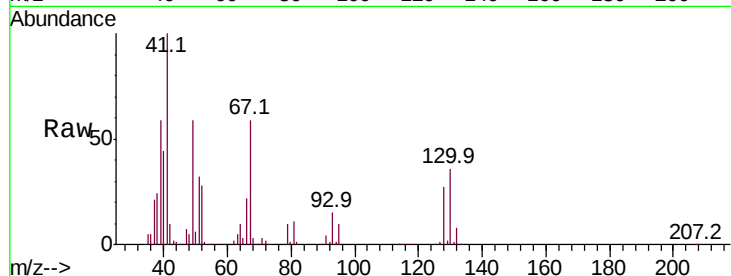
#41
Methacrylonitrile
Concen: 165.390 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion:	41	Resp:	206350
Ion	Ratio	Lower	Upper
41	100		
39	57.4	52.5	78.7
67	68.7	56.6	84.8
52	31.5	27.2	40.8

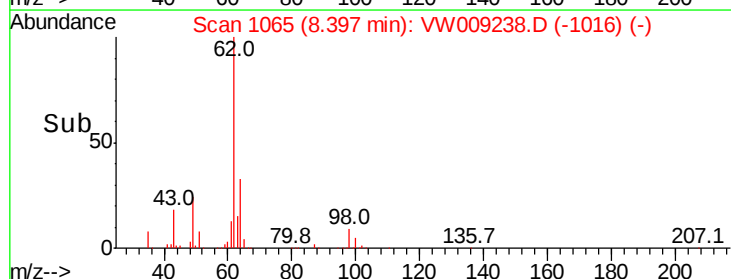
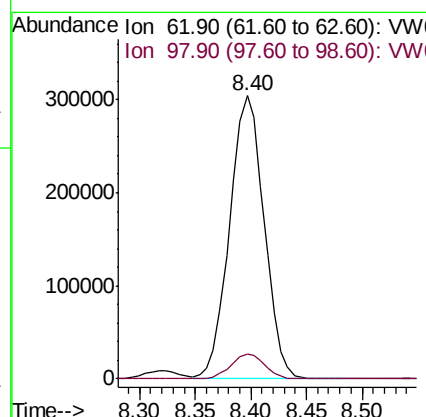
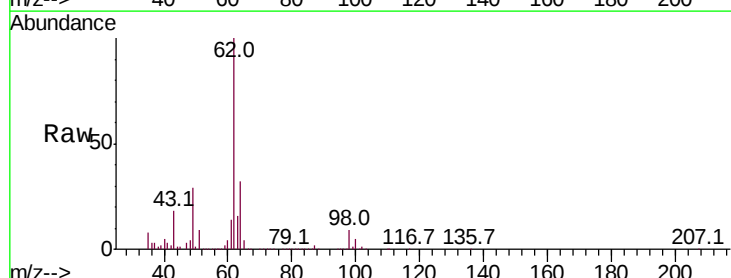
Manual Integrations
APPROVED

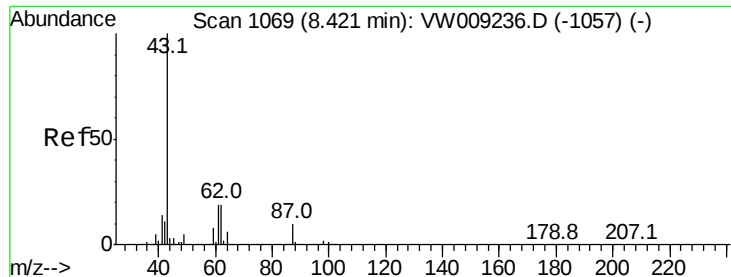
MMDadoda
3/22/2019 3:53:03 AM



#42
1,2-Dichloroethane
Concen: 145.291 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion:	62	Resp:	653379
Ion	Ratio	Lower	Upper
62	100		
98	8.6	0.0	17.4





#43

Isopropyl Acetate

Concen: 158.928 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

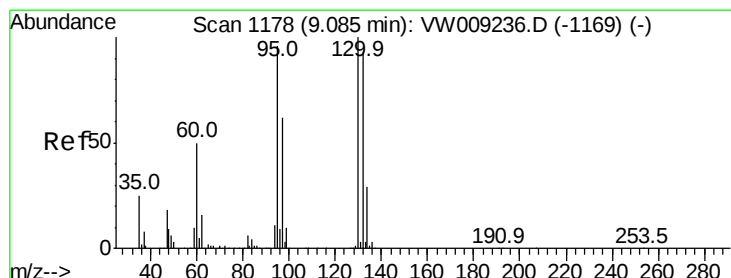
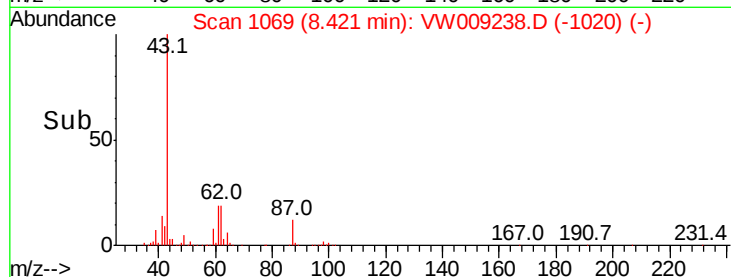
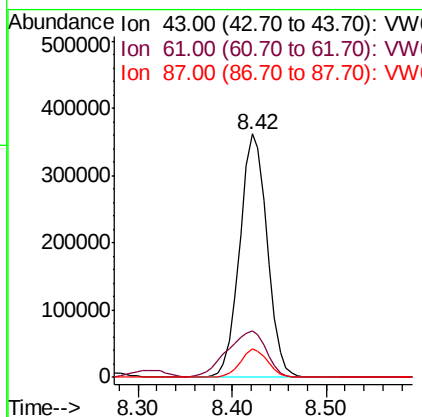
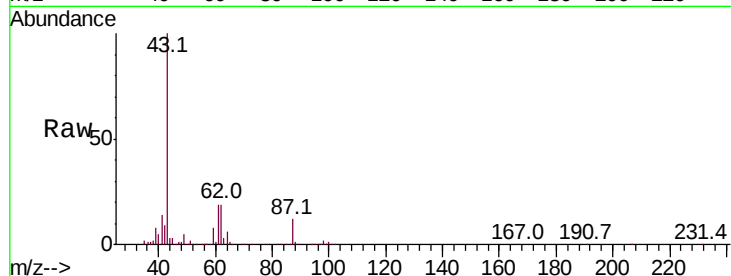
ClientSampleId :

VSTDIC150

Tot Ion:	43	Resp:	736694
Ion	Ratio	Lower	Upper
43	100		
61	27.1	22.2	33.2
87	11.7	9.6	14.4

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM



#44

Trichloroethene

Concen: 139.572 ug/l

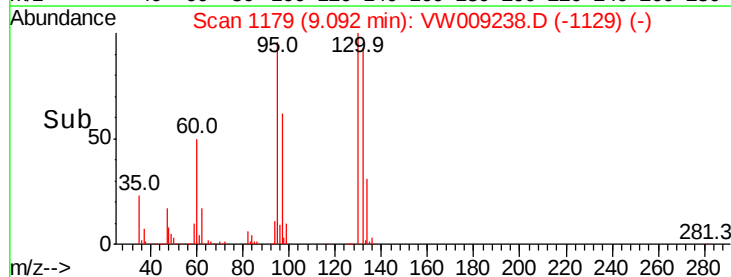
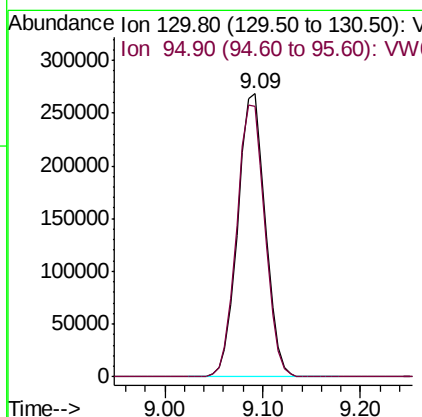
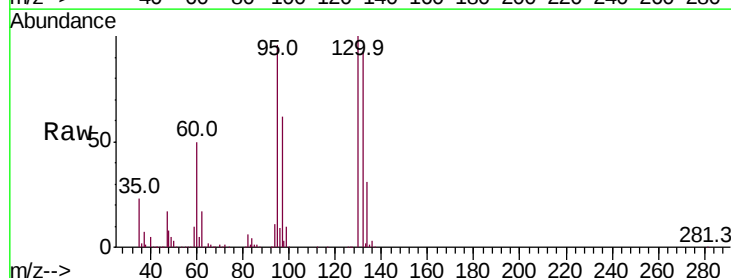
RT: 9.09 min Scan# 1179

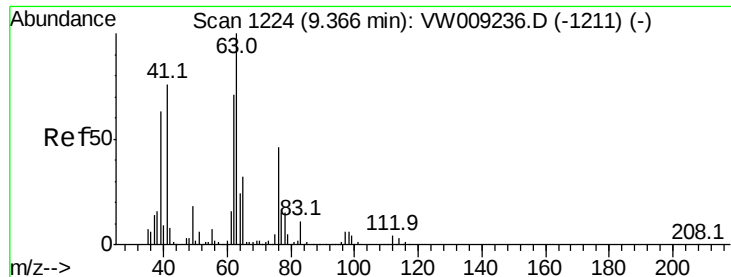
Delta R.T. 0.01 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Tgt Ion:	130	Resp:	525999
Ion	Ratio	Lower	Upper
130	100		
95	95.8	0.0	192.6





#45

1,2-Dichloropropane

Concen: 143.310 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion: 63 Resp: 501180

Ion Ratio Lower Upper

63 100

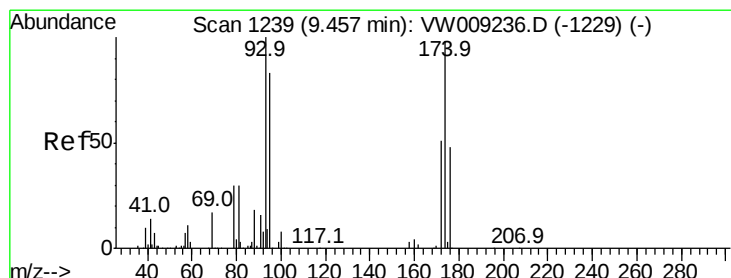
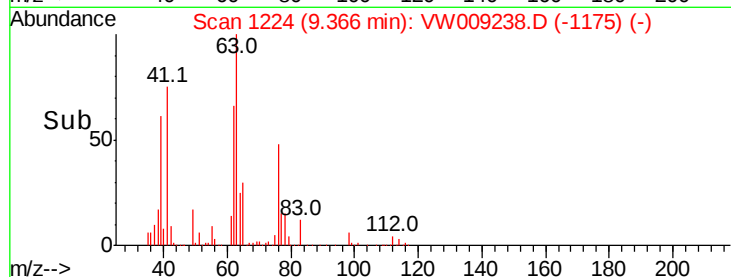
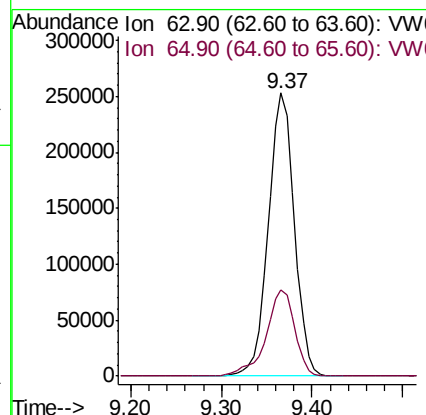
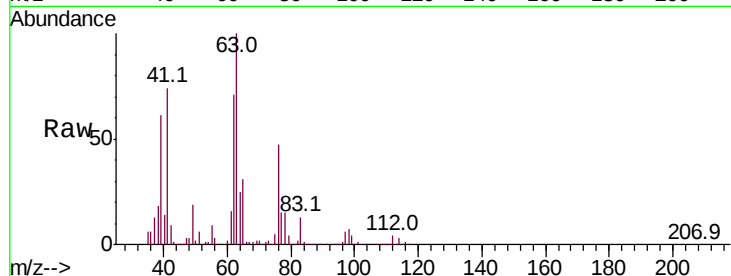
65 30.5 25.8 38.8

Manual Integrations

APPROVED

MMDadoda

3/22/2019 3:53:03 AM



#46

Dibromomethane

Concen: 145.965 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

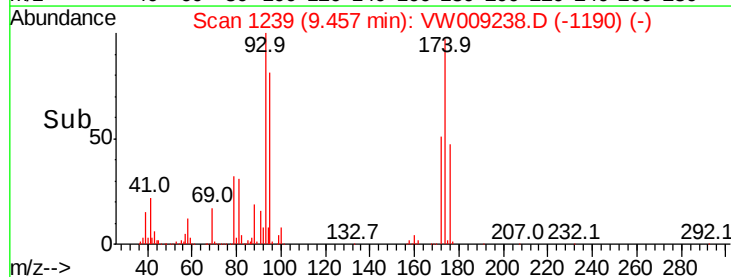
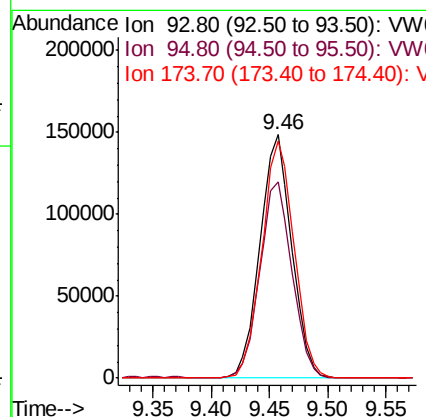
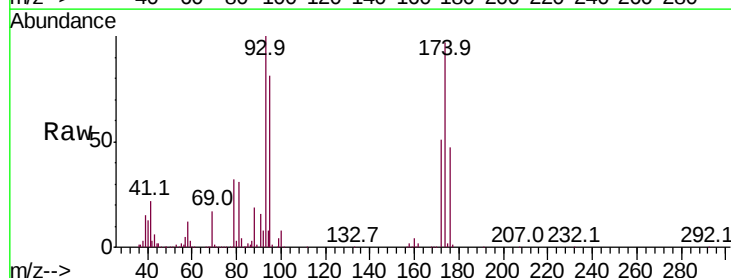
Tgt Ion: 93 Resp: 280703

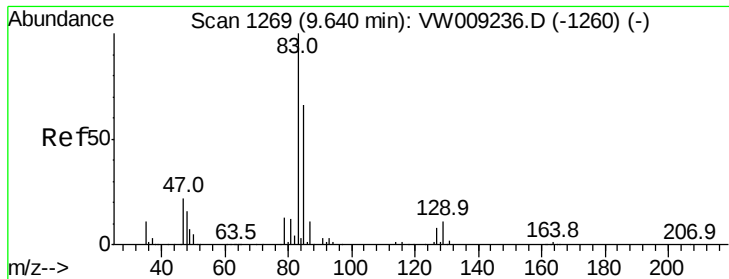
Ion Ratio Lower Upper

93 100

95 81.7 66.9 100.3

174 99.0 80.8 121.2





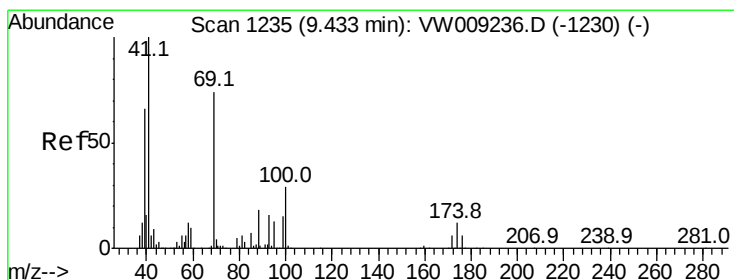
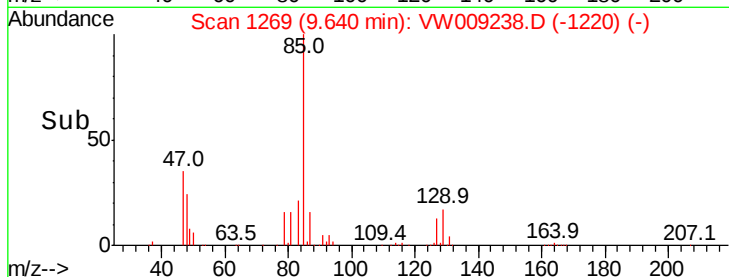
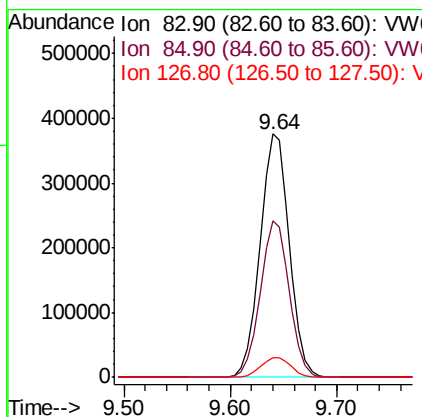
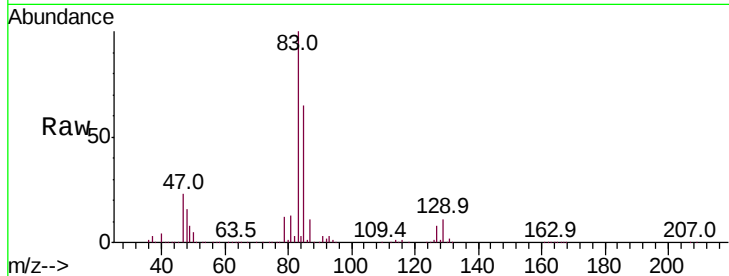
#47
Bromodichloromethane
Concen: 148.284 ug/l
RT: 9.64 min Scan# 1269
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Resp	Lower	Upper
83	100	720609		
85	64.5	52.6	79.0	
127	8.1	6.5	9.7	

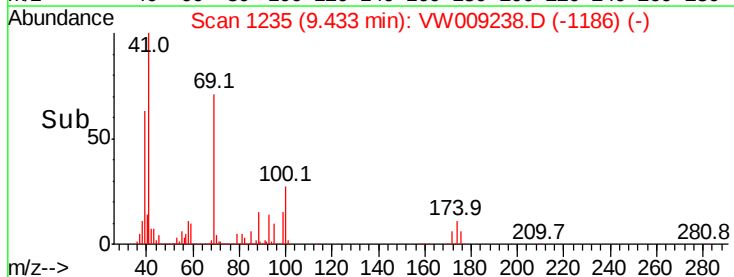
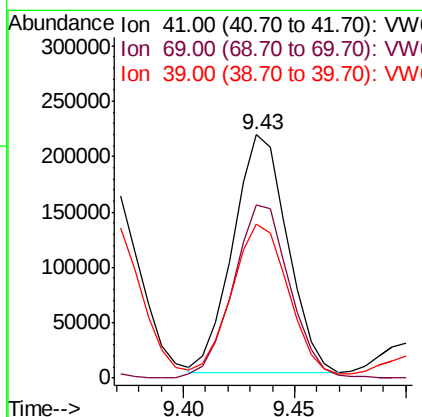
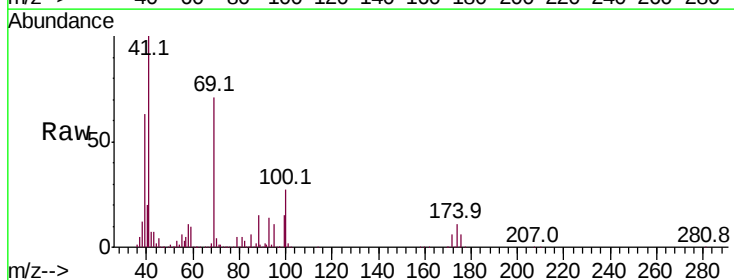
Manual Integrations
APPROVED

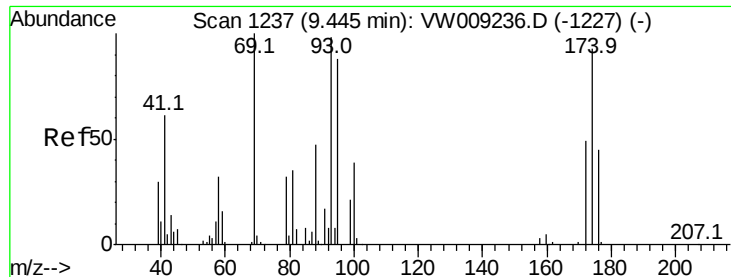
MMDadoda
3/22/2019 3:53:03 AM



#48
Methyl methacrylate
Concen: 170.008 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Resp	Lower	Upper
41	100	364855		
69	75.8	63.0	94.6	
39	64.7	57.2	85.8	





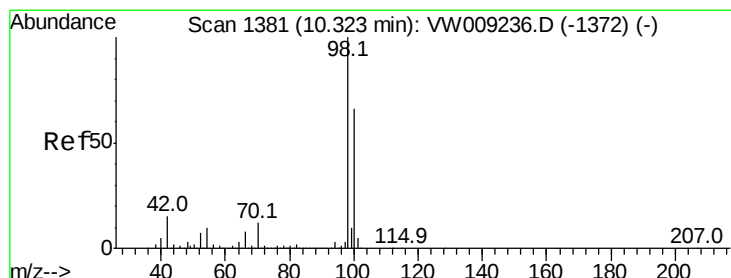
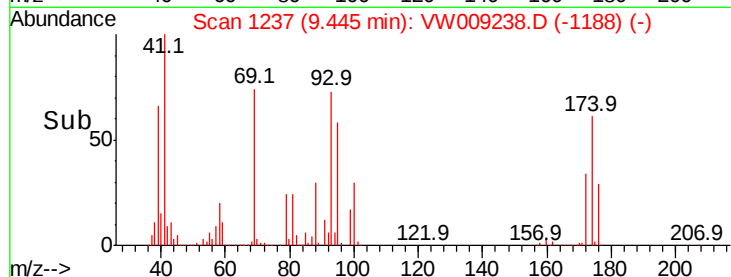
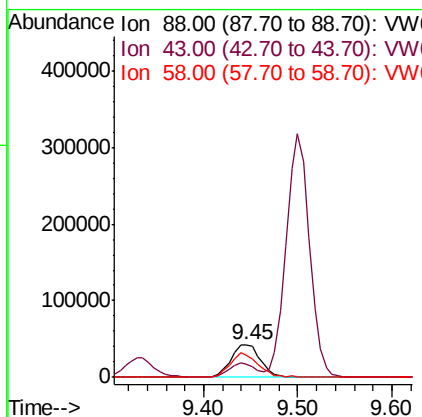
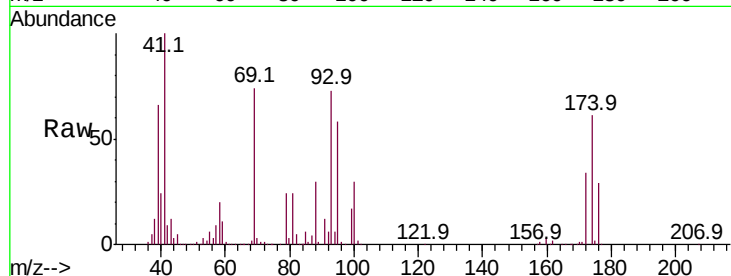
#49
1,4-Dioxane
Concen: 3125.077 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion	88	Resp	93216
Ion	Ratio	Lower	Upper
88	100		
43	38.2	29.7	44.5
58	72.6	58.1	87.1

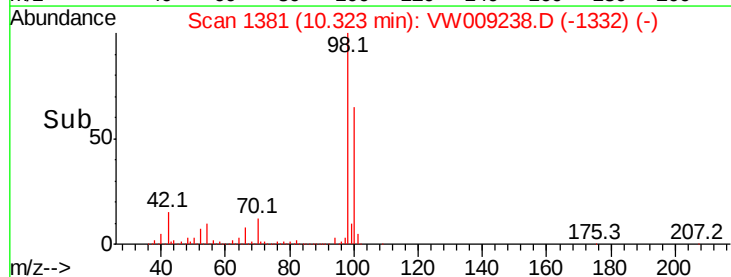
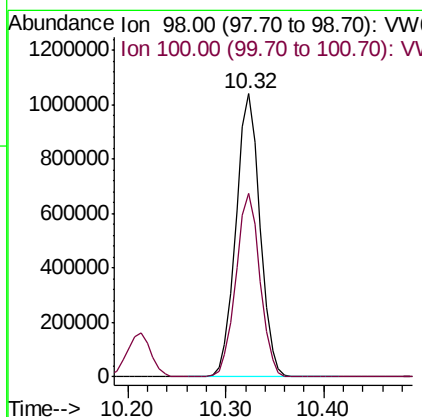
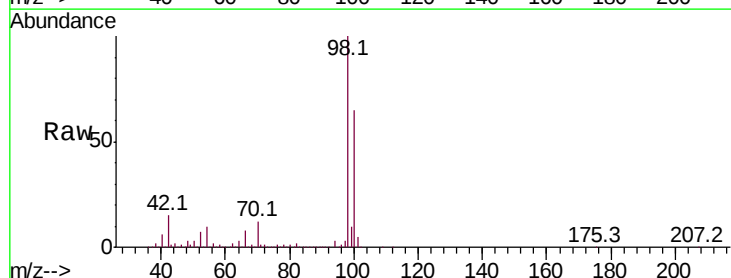
Manual Integrations
APPROVED

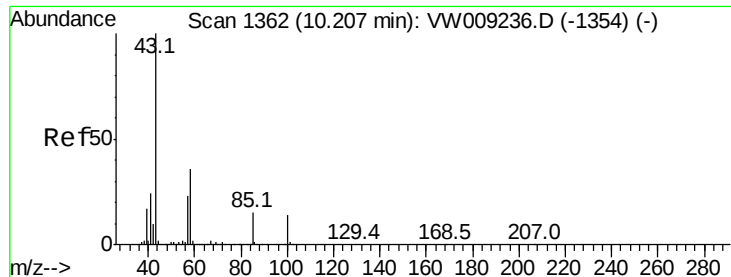
MMDadoda
3/22/2019 3:53:03 AM



#50
Toluene-d8
Concen: 150.882 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	98	Resp	1773213
Ion	Ratio	Lower	Upper
98	100		
100	64.9	52.6	79.0





#51

4-Methyl-2-Pentanone

Concen: 815.277 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion: 43 Resp: 1969531

Ion Ratio Lower Upper

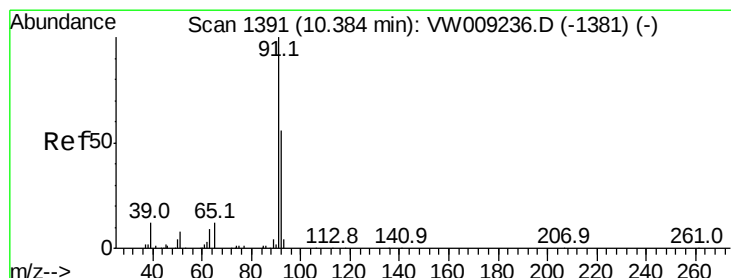
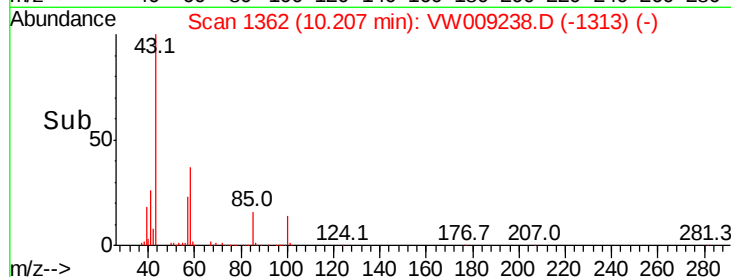
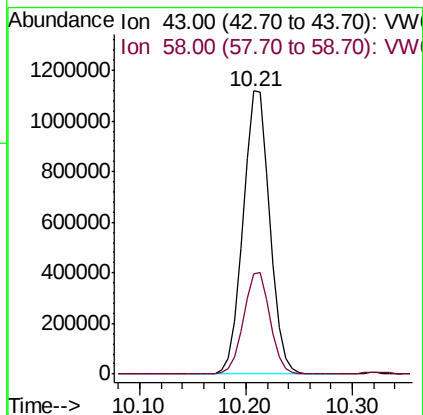
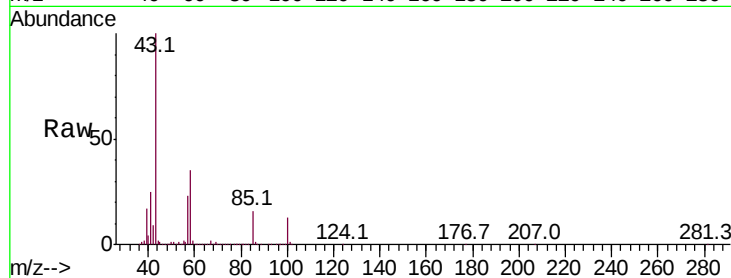
43 100

58 35.7 28.6 42.8

Manual Integrations
APPROVED

MMDadoda

3/22/2019 3:53:03 AM



#52

Toluene

Concen: 150.190 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. 0.00 min

Lab File: VW009238.D

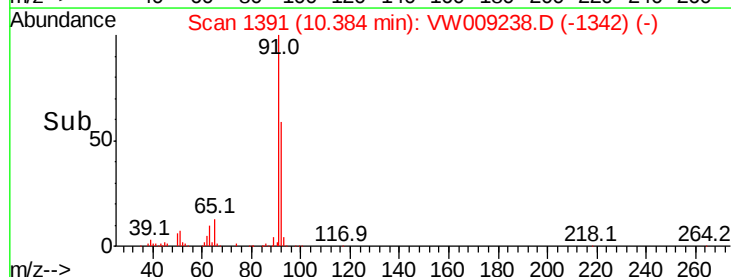
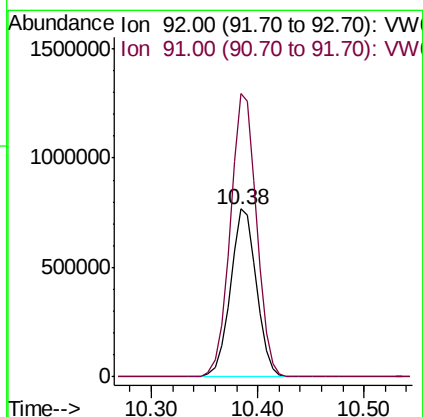
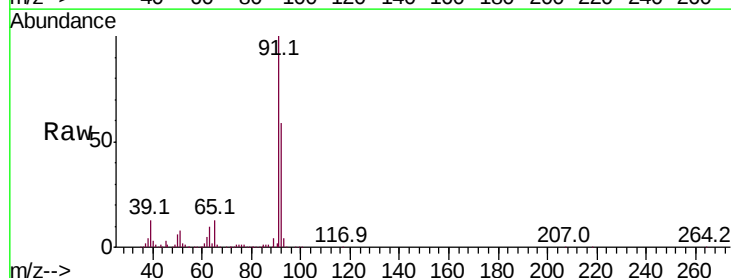
Acq: 19 Mar 2019 13:13

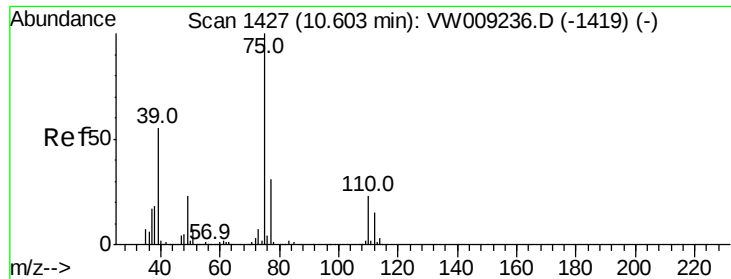
Tgt Ion: 92 Resp: 1309183

Ion Ratio Lower Upper

92 100

91 170.6 140.1 210.1





#53

t-1,3-Dichloropropene

Concen: 160.004 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W

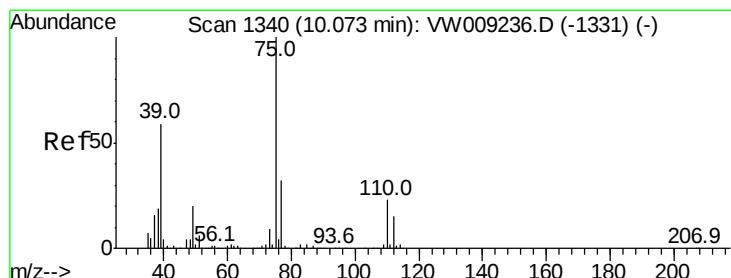
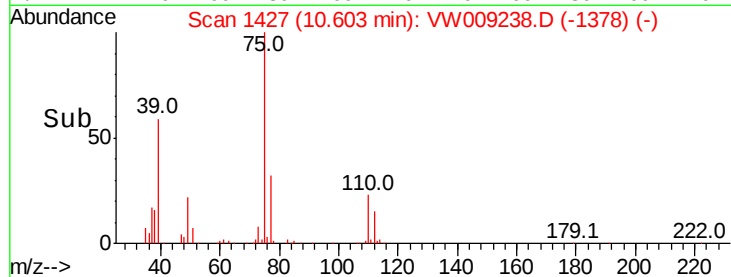
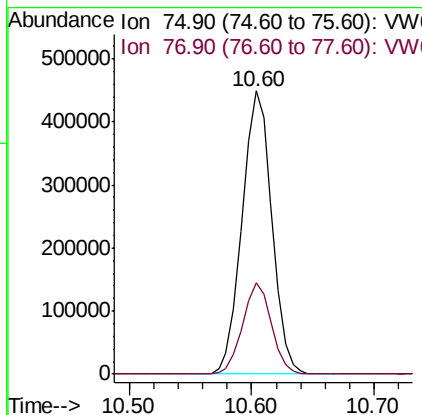
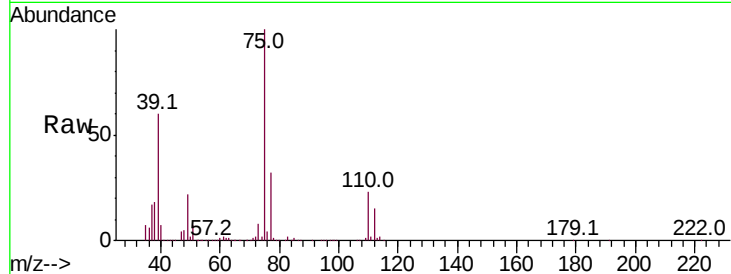
ClientSampleId :
VSTDIC150

Tot Ion: 75 Resp: 758243

Ion	Ratio	Lower	Upper
75	100		
77	32.4	24.8	37.2

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM



#54

cis-1,3-Dichloropropene

Concen: 153.095 ug/l

RT: 10.07 min Scan# 1340

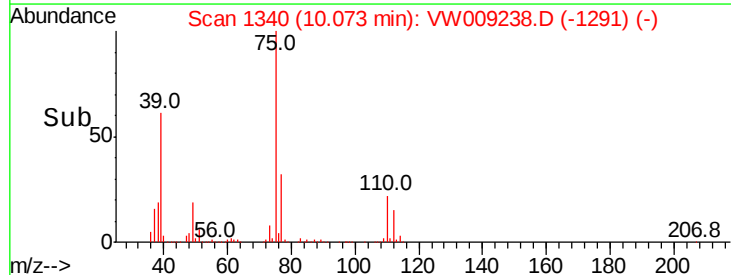
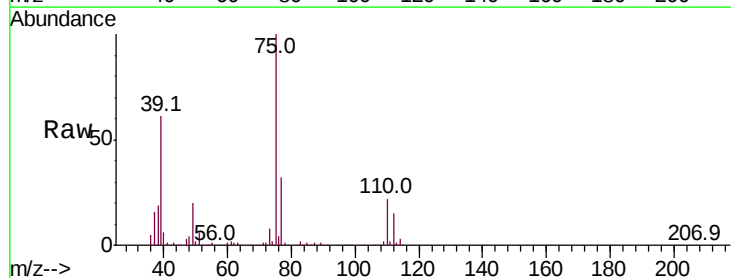
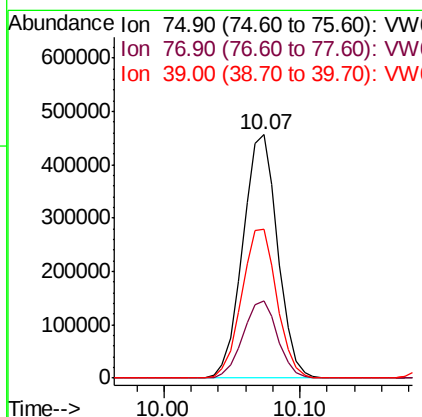
Delta R.T. 0.00 min

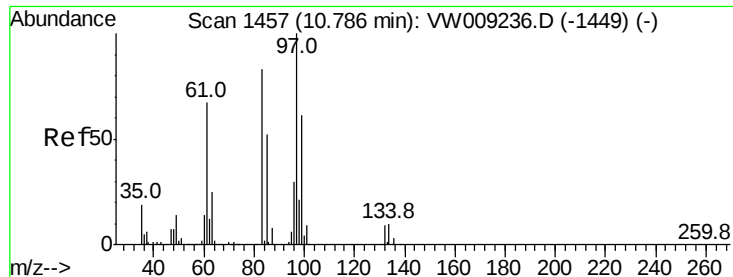
Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Tgt Ion: 75 Resp: 816205

Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.9	38.9
39	61.2	46.8	70.2





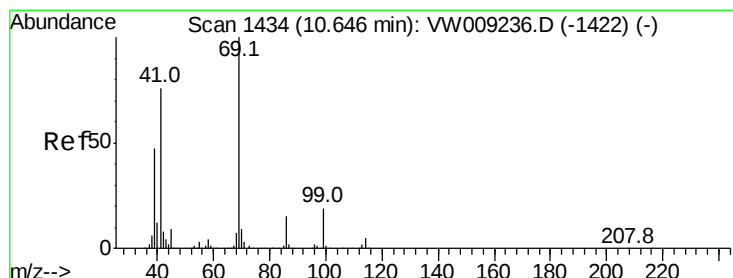
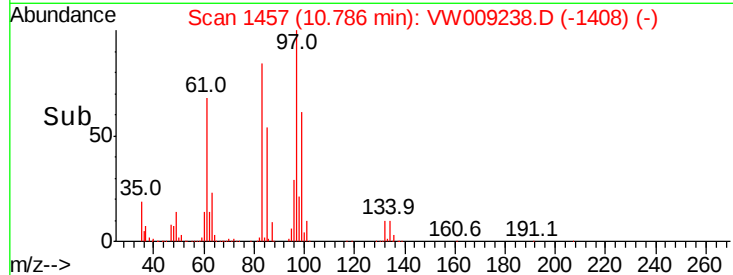
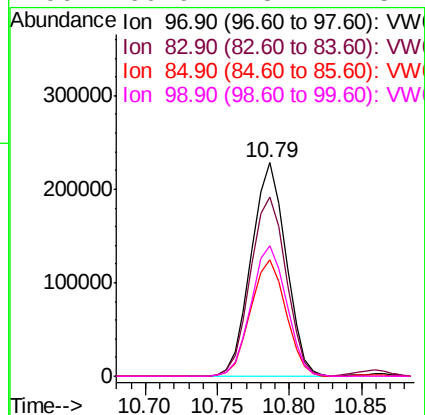
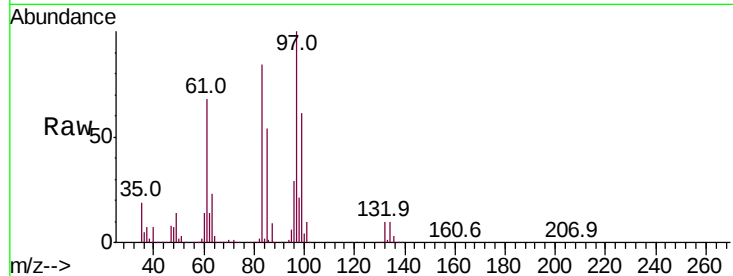
#55
 1,1,2-Trichloroethane
 Concen: 146.945 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW009238.D
 Acq: 19 Mar 2019 13:13

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
97	100		
83	84.1	66.3	99.5
85	54.3	41.4	62.2
99	60.9	48.7	73.1

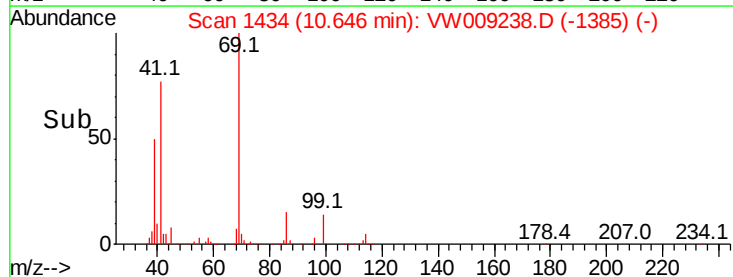
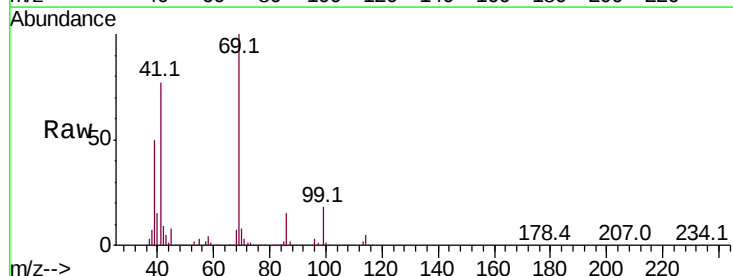
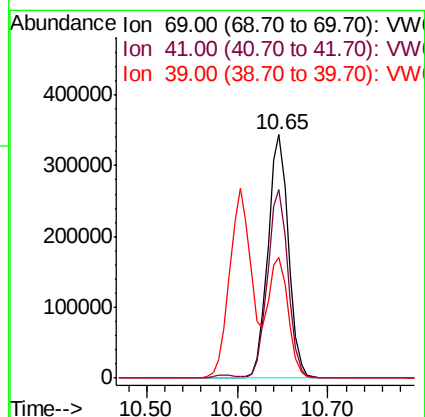
Manual Integrations
 APPROVED

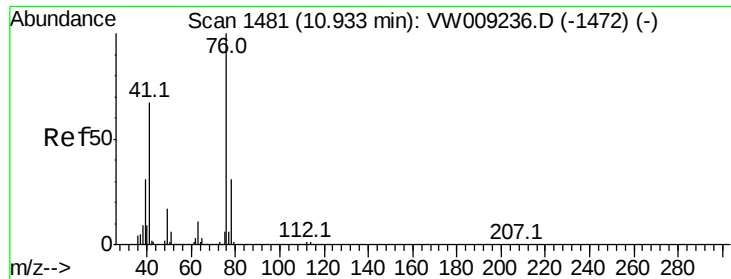
MMDadoda
 3/22/2019 3:53:03 AM



#56
 Ethyl methacrylate
 Concen: 173.127 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.00 min
 Lab File: VW009238.D
 Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
69	100		
41	77.2	59.3	88.9
39	46.2	36.2	54.2





#57

1,3-Dichloropropane

Concen: 150.813 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion: 76 Resp: 677352

Ion Ratio Lower Upper

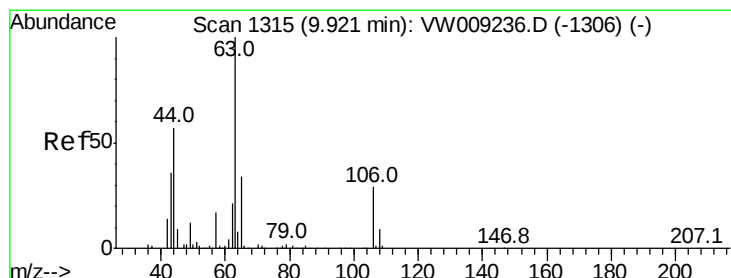
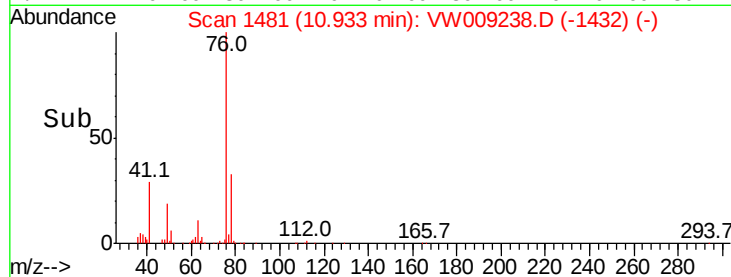
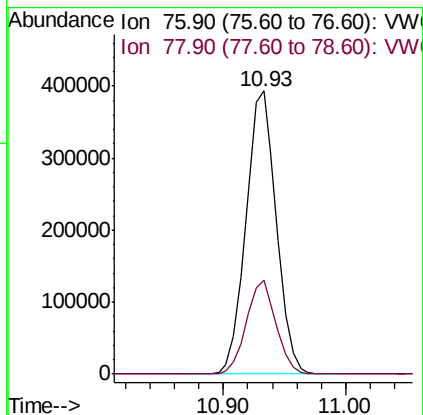
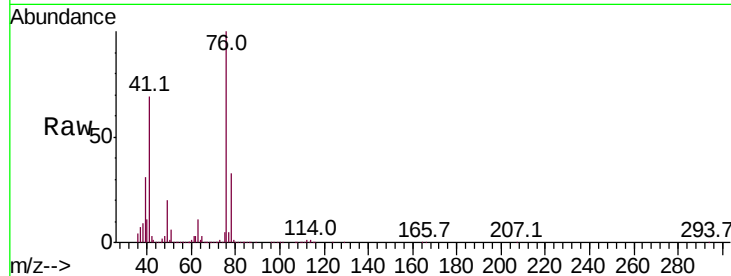
76 100

78 32.2 25.8 38.6

Manual Integrations
APPROVED

MMDadoda

3/22/2019 3:53:03 AM



#58

2-Chloroethyl Vinyl ether

Concen: 310.327 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. 0.00 min

Lab File: VW009238.D

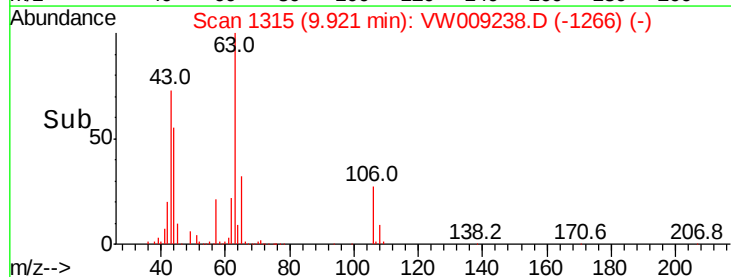
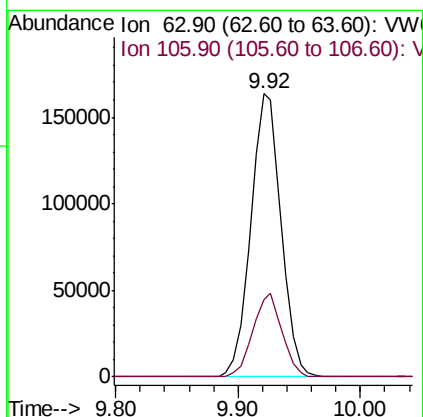
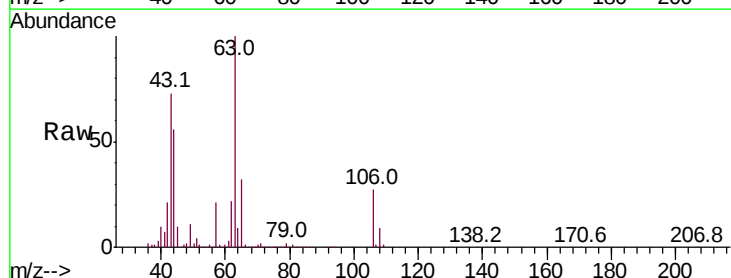
Acq: 19 Mar 2019 13:13

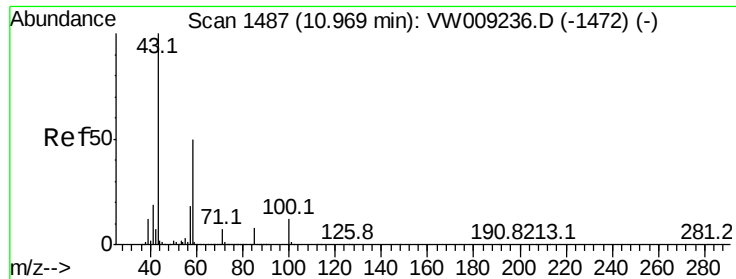
Tgt Ion: 63 Resp: 281551

Ion Ratio Lower Upper

63 100

106 28.3 22.9 34.3





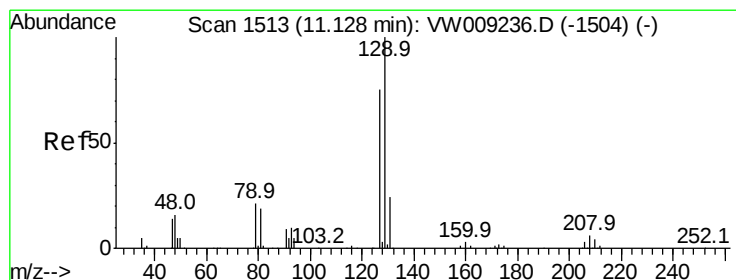
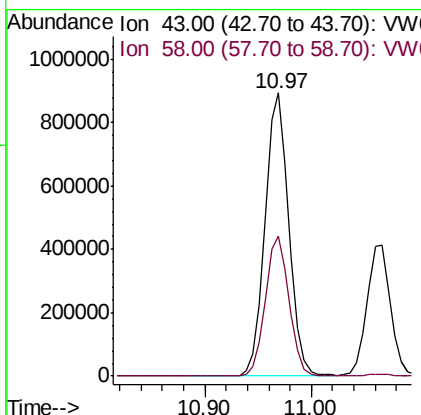
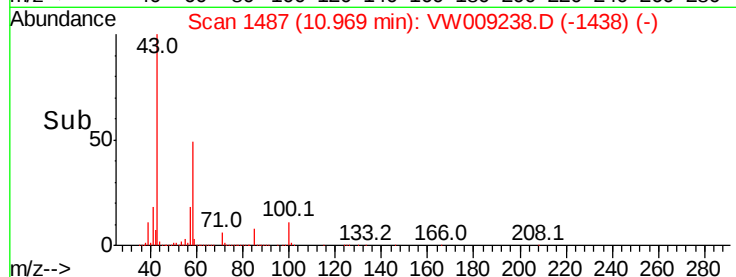
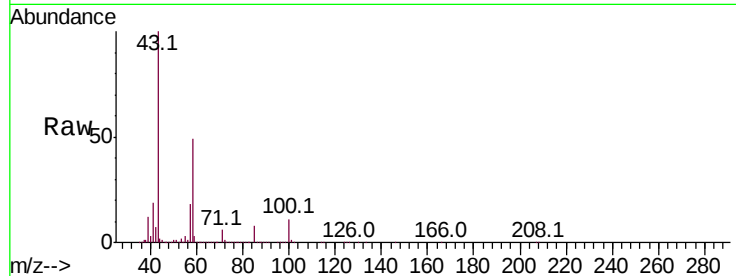
#59
2-Hexanone
Concen: 850.134 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion: 43 Resp: 1394282
Ion Ratio Lower Upper
43 100
58 49.5 24.2 72.6

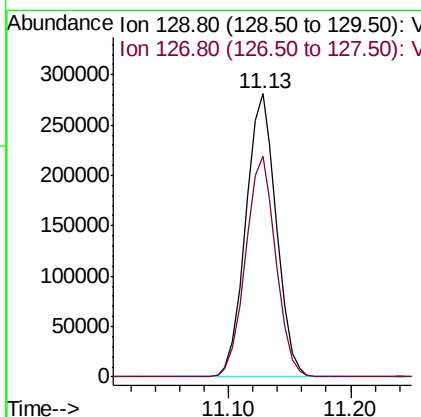
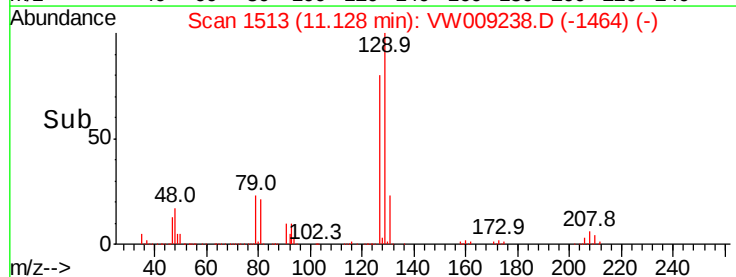
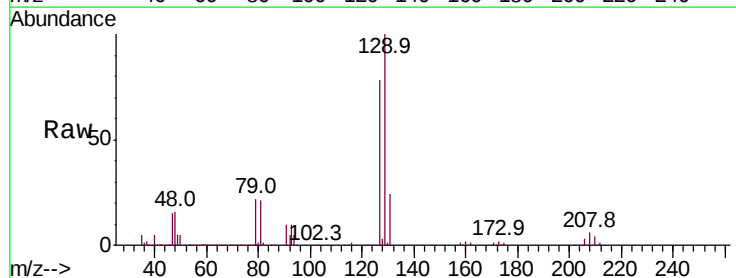
Manual Integrations
APPROVED

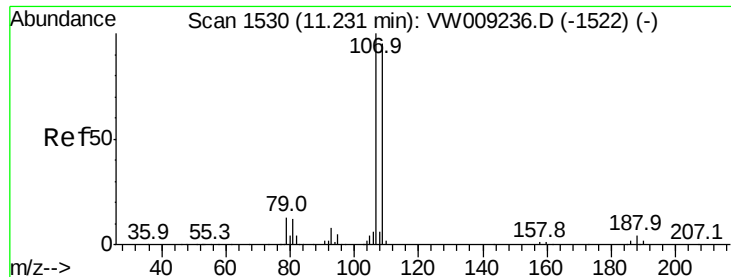
MMDadoda
3/22/2019 3:53:03 AM



#60
Dibromochloromethane
Concen: 151.182 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion: 129 Resp: 486387
Ion Ratio Lower Upper
129 100
127 77.3 38.1 114.5





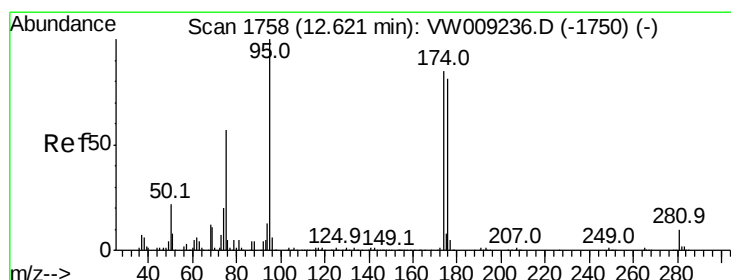
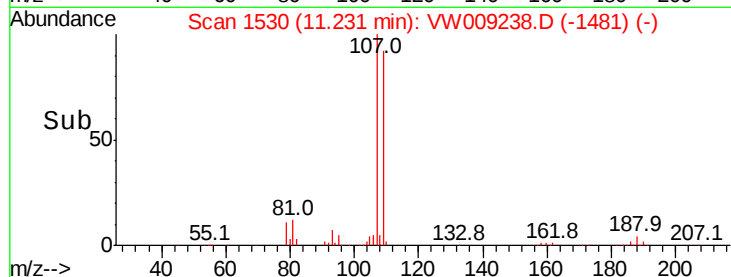
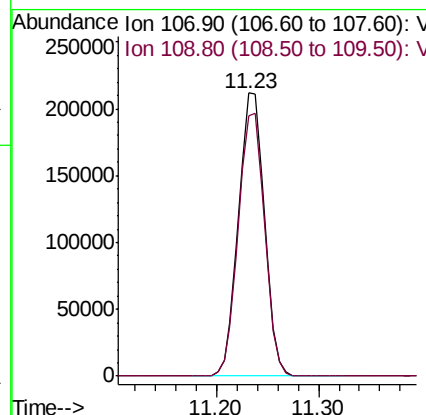
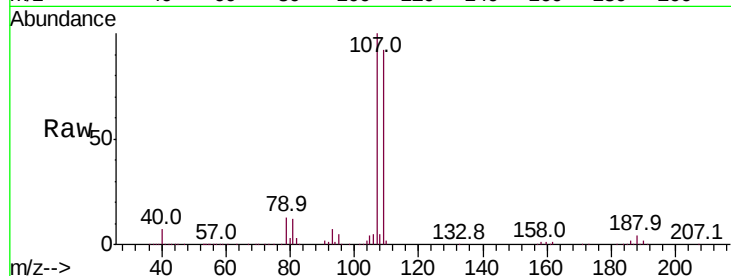
#61
 1,2-Dibromoethane
 Concen: 150.566 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. 0.00 min
 Lab File: VW009238.D
 Acq: 19 Mar 2019 13:13

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
107	100		
109	93.9	75.1	112.7

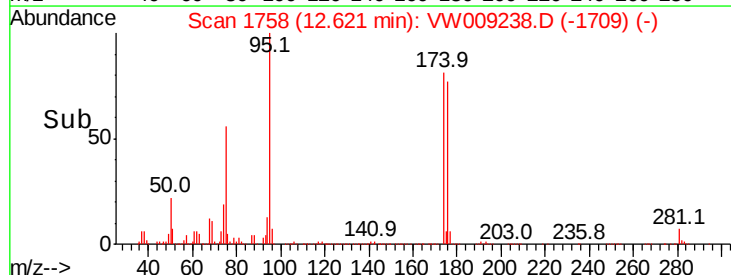
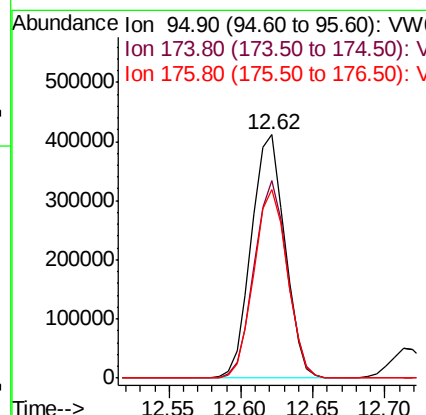
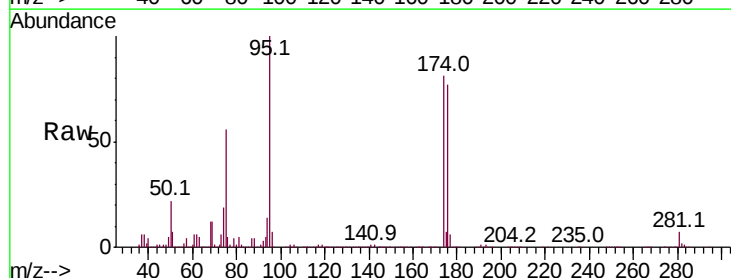
Manual Integrations
 APPROVED

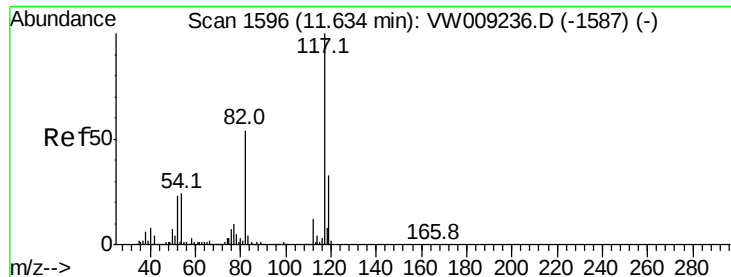
MMDadoda
 3/22/2019 3:53:03 AM



#62
 4-Bromofluorobenzene
 Concen: 153.743 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. 0.00 min
 Lab File: VW009238.D
 Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
95	100		
174	79.3	0.0	168.4
176	77.2	0.0	161.6





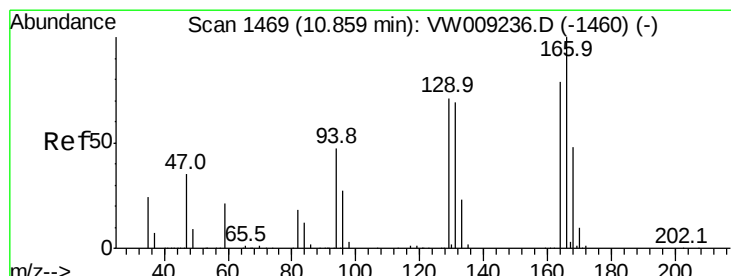
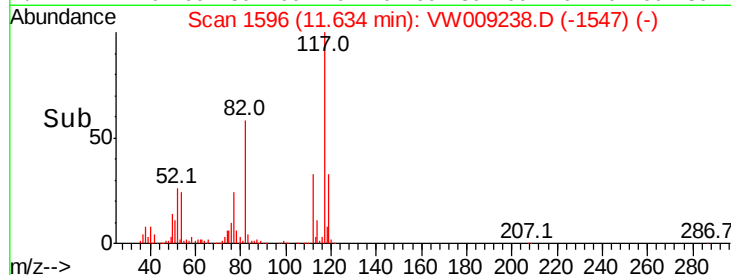
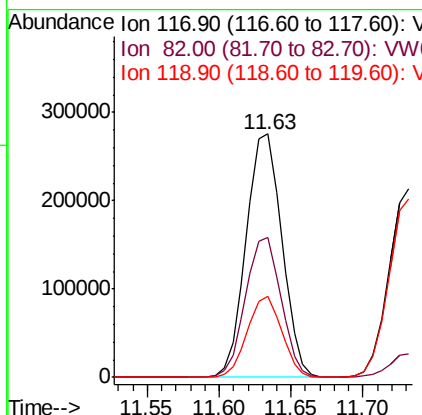
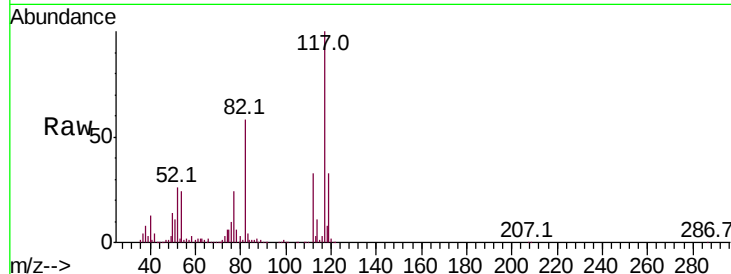
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC150

Tot Ion	Ratio	Lower	Upper
117	100		
82	57.6	43.6	65.4
119	33.3	26.0	39.0

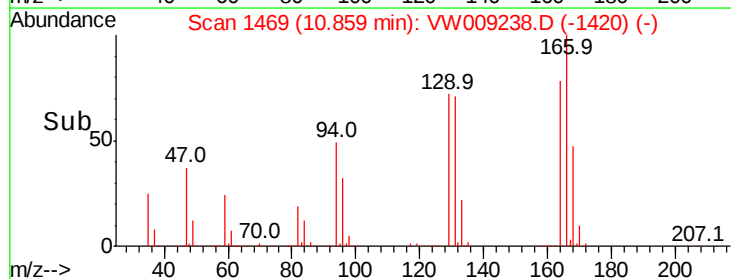
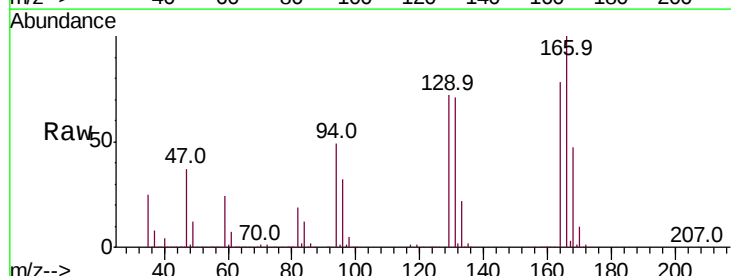
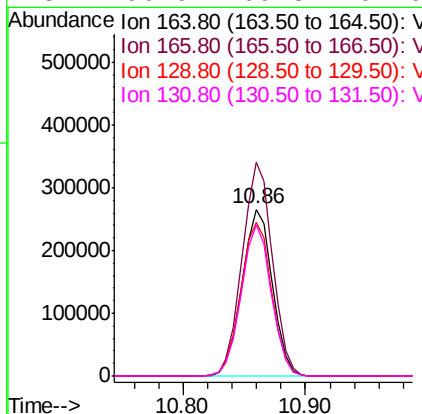
Manual Integrations
APPROVED

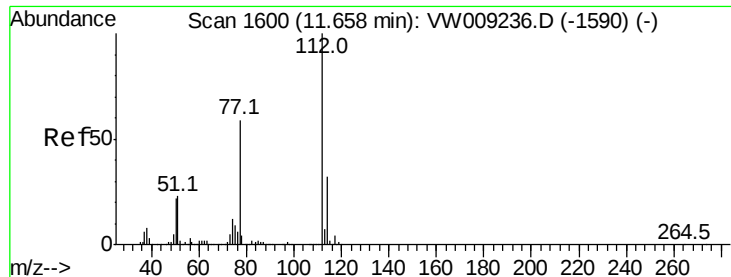
MMDadoda
3/22/2019 3:53:03 AM



#64
Tetrachloroethene
Concen: 140.917 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.2	100.9	151.3
129	92.6	72.0	108.0
131	90.9	69.8	104.6





#65

Chlorobenzene

Concen: 142.691 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion:112 Resp: 1398079

Ion Ratio Lower Upper

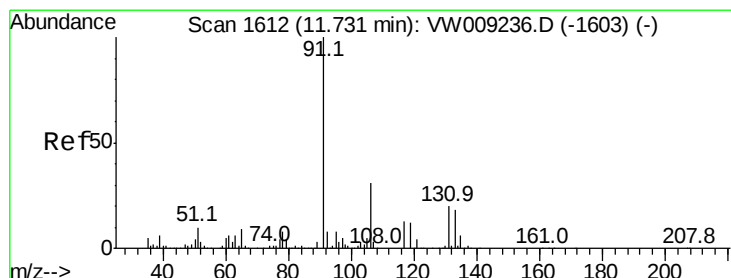
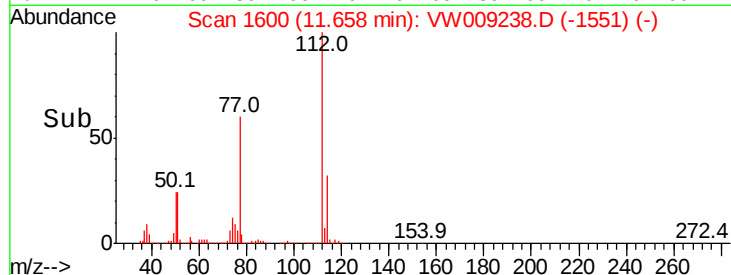
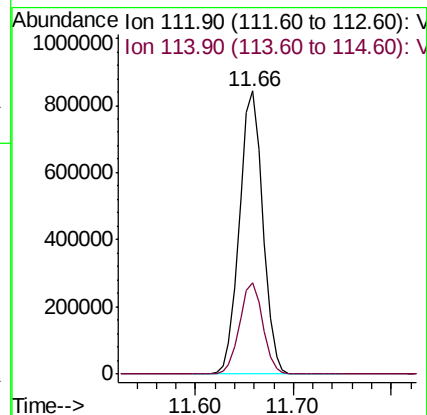
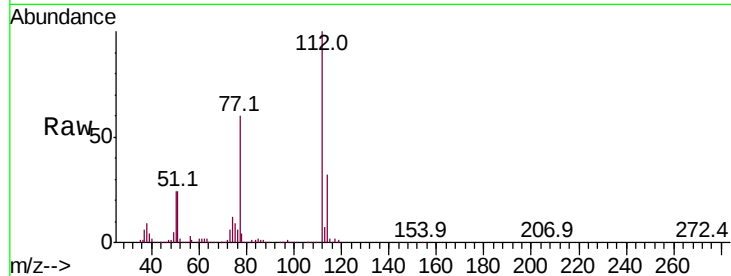
112 100

114 32.1 25.6 38.4

Manual Integrations
APPROVED

MMDadoda

3/22/2019 3:53:03 AM



#66

1,1,1,2-Tetrachloroethane

Concen: 146.760 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

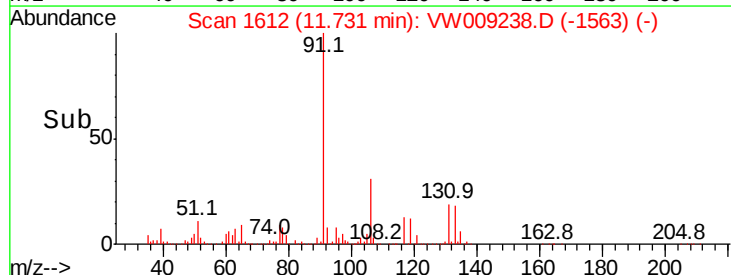
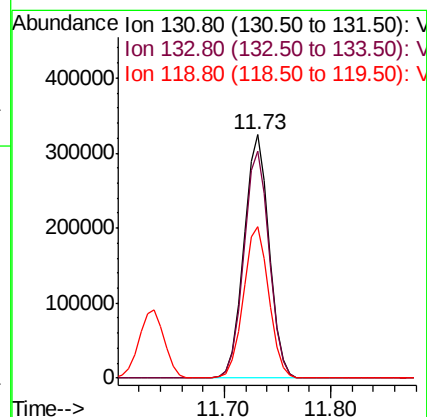
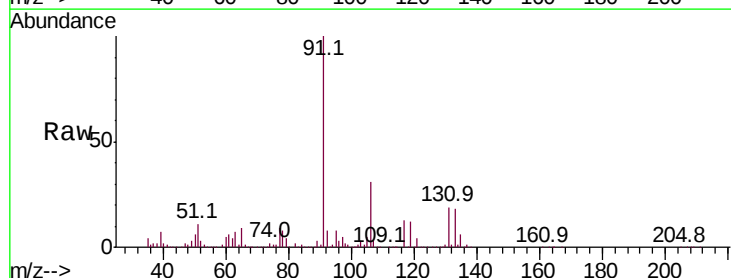
Tgt Ion:131 Resp: 537108

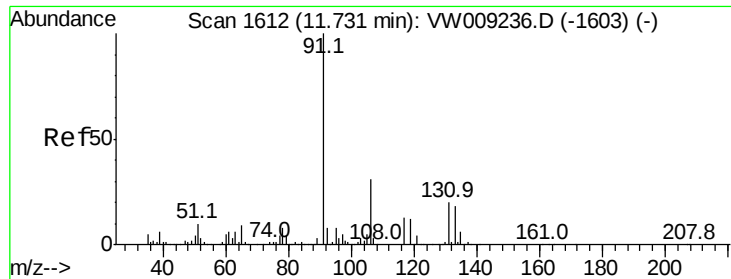
Ion Ratio Lower Upper

131 100

133 94.5 47.3 141.8

119 63.1 31.6 95.0





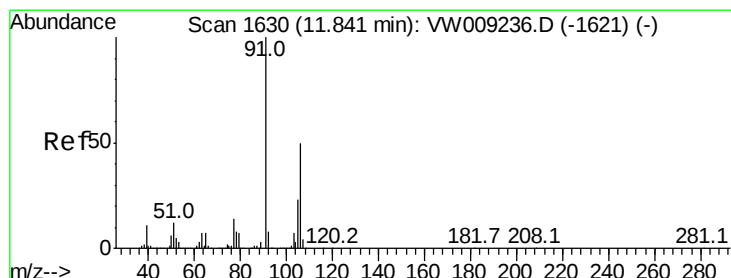
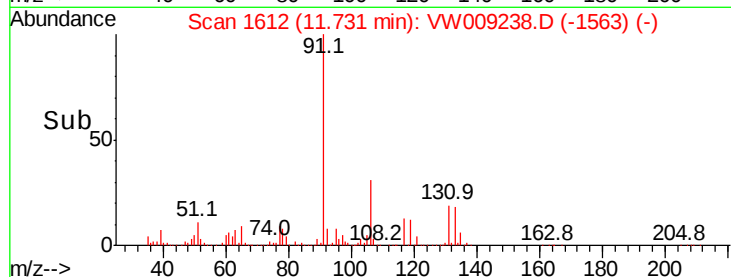
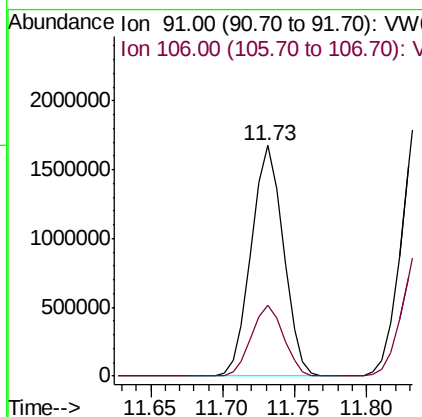
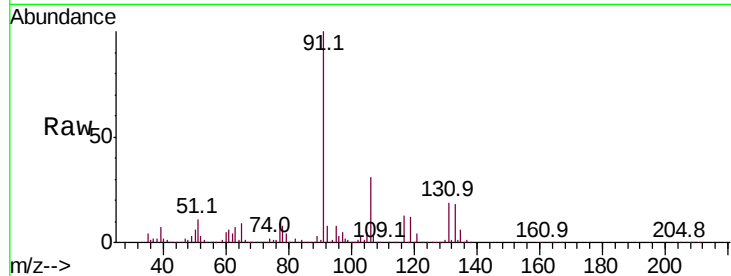
#67
Ethyl Benzene
Concen: 152.889 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion: 91 Resp: 2594627
Ion Ratio Lower Upper
91 100
106 30.8 24.6 36.8

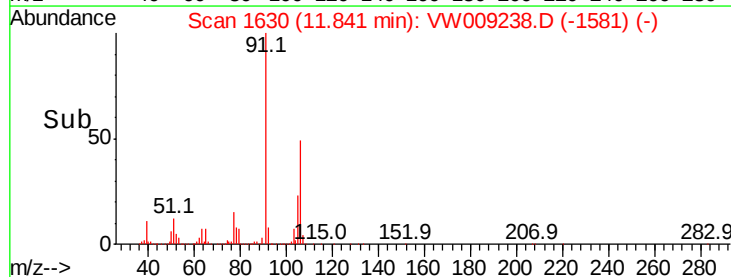
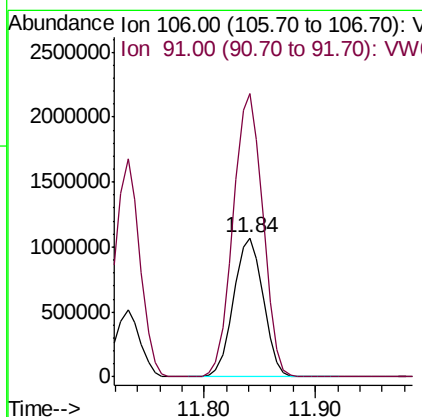
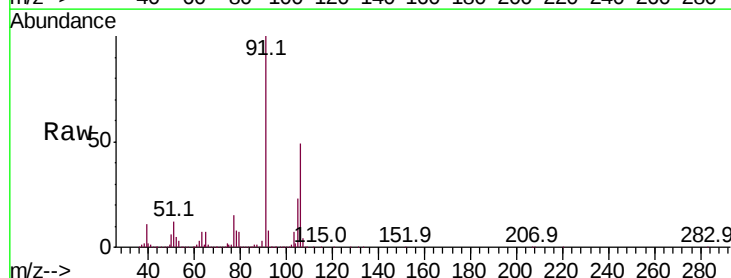
Manual Integrations
APPROVED

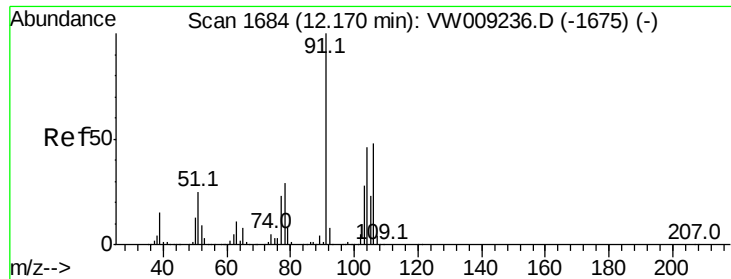
MMDadoda
3/22/2019 3:53:03 AM



#68
m/p-Xylenes
Concen: 299.225 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion: 106 Resp: 1968270
Ion Ratio Lower Upper
106 100
91 205.1 163.1 244.7





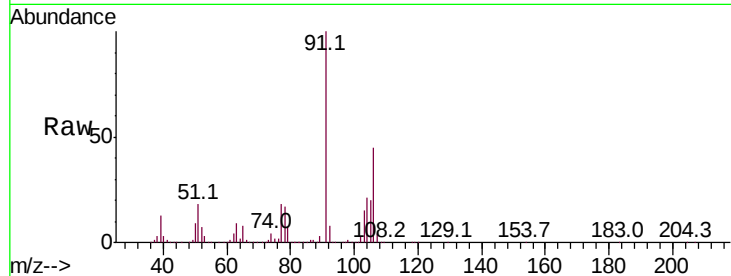
#69
o-Xylene
Concen: 155.082 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.01 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

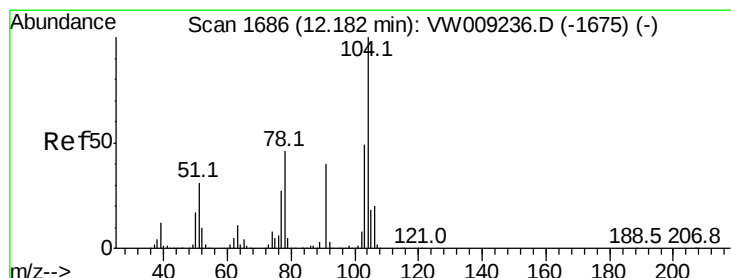
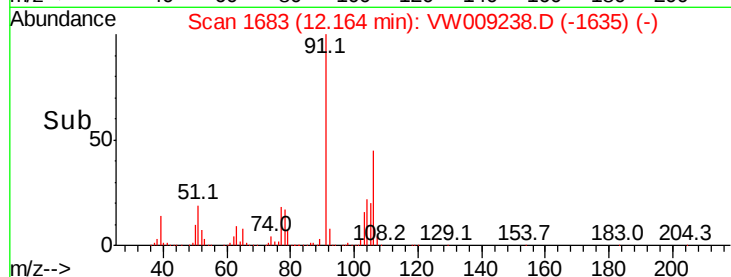
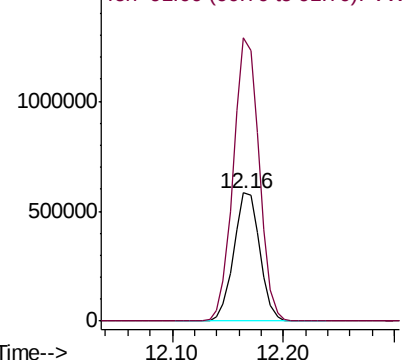
Tot Ion	Ratio	Lower	Upper
106	100		
91	219.1	108.6	325.8

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM

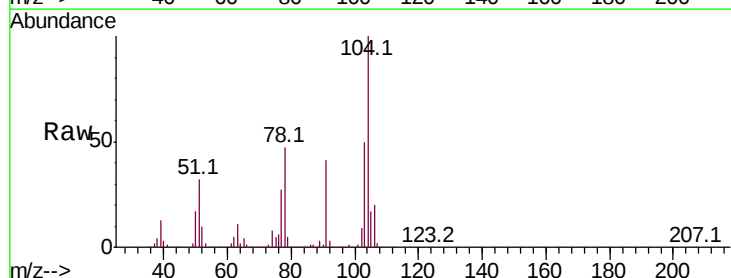


Abundance Ion 106.00 (105.70 to 106.70): V
1500000 Ion 91.00 (90.70 to 91.70): VW

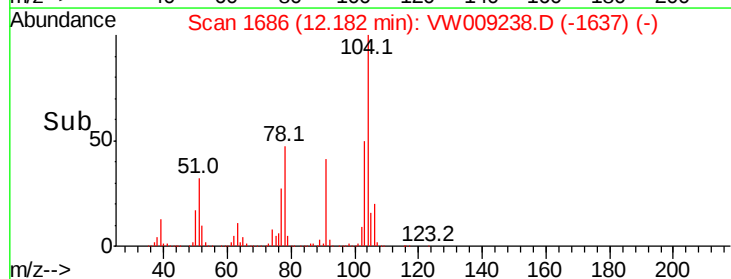
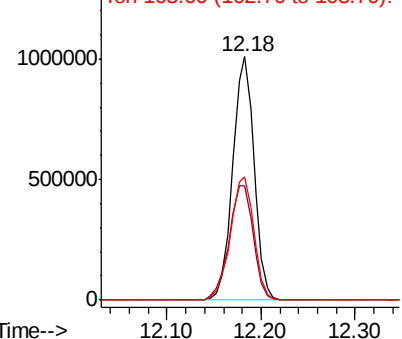


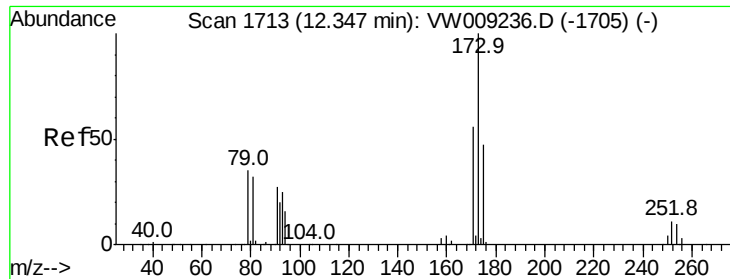
#70
Styrene
Concen: 159.015 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
104	100		
78	53.2	42.2	63.4
103	55.2	44.6	66.8



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): VW
Ion 103.00 (102.70 to 103.70): V





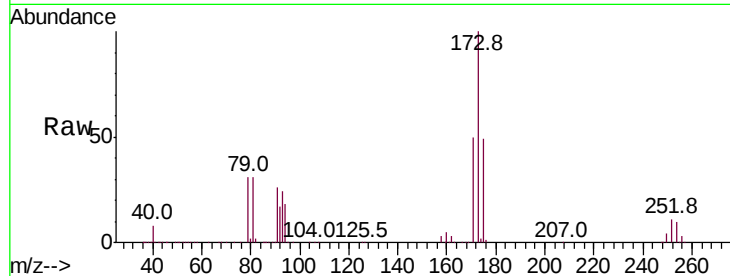
#71
Bromoform
Concen: 153.352 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.1	24.1	72.4
254	0.2	0.2	0.4

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM

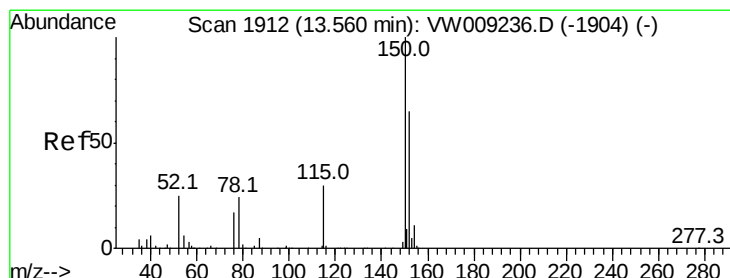
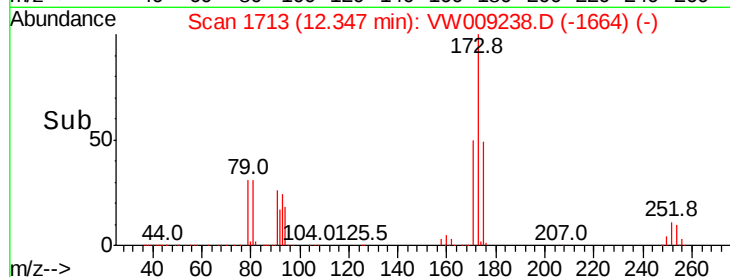
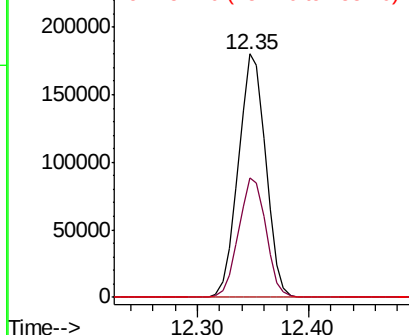


Abundance

Ion 172.70 (172.40 to 173.40): V

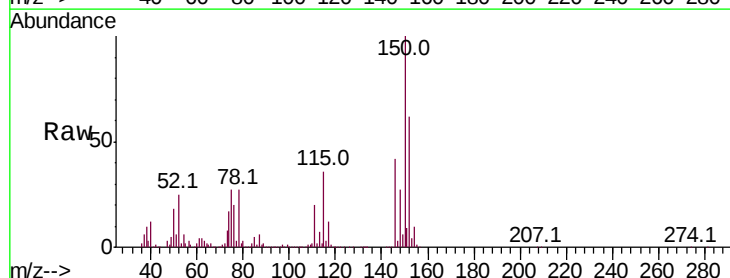
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
152	100		
115	59.0	29.6	88.8
150	204.5	0.0	349.2

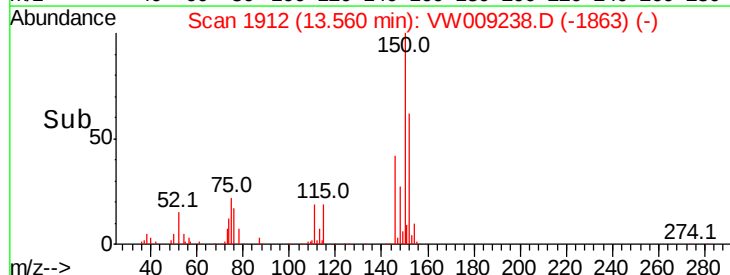
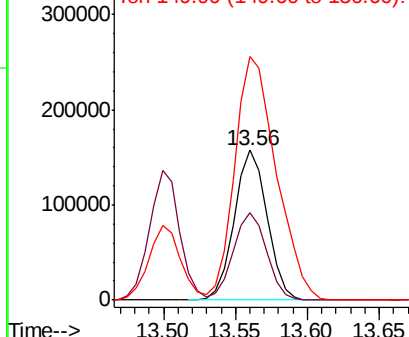


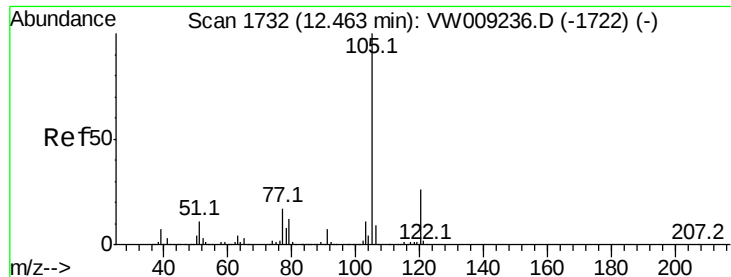
Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





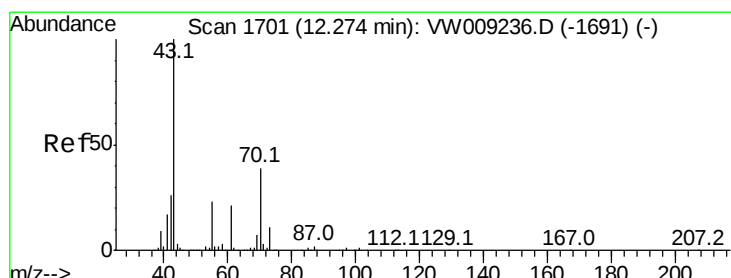
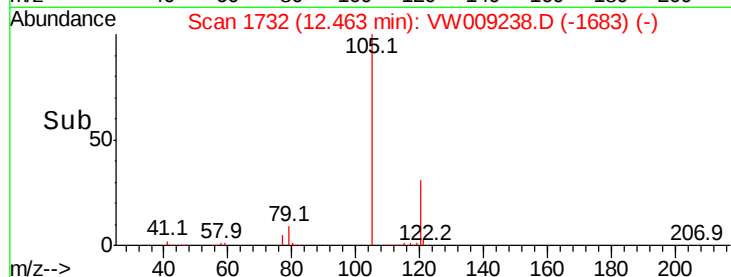
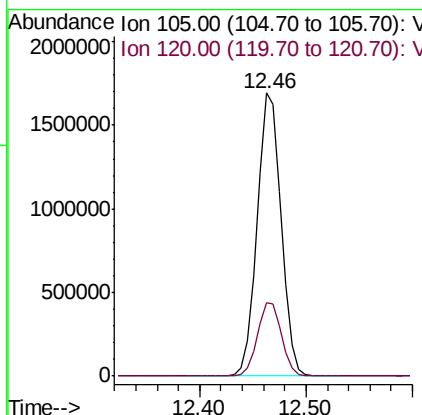
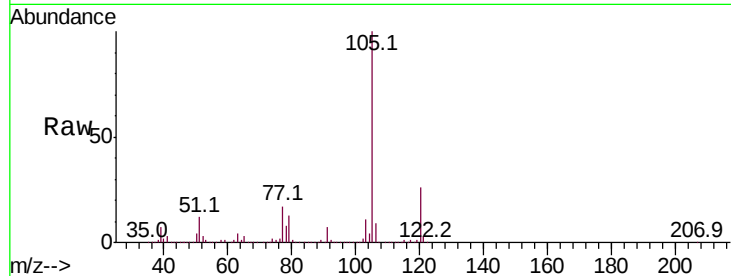
#73
Isopropylbenzene
Concen: 159.323 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion:105 Resp: 2667786
Ion Ratio Lower Upper
105 100
120 26.2 13.0 39.0

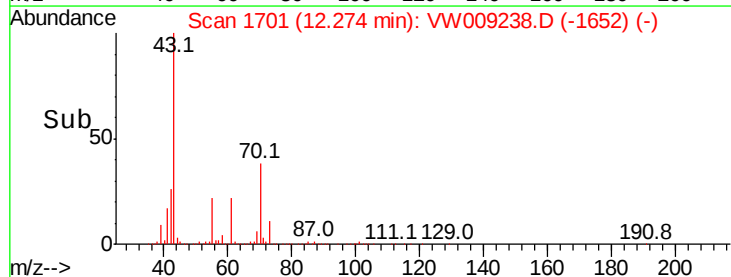
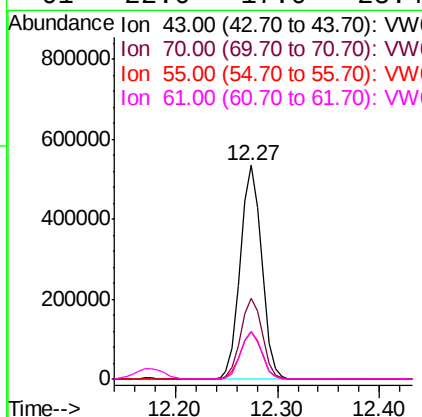
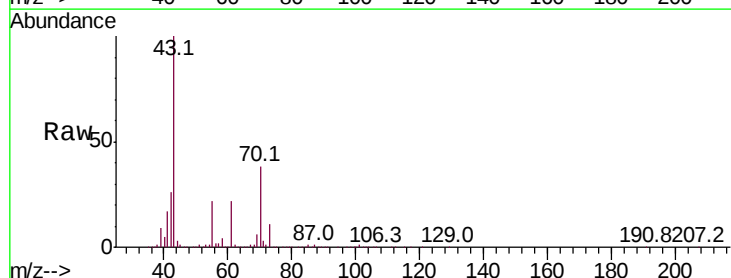
Manual Integrations
APPROVED

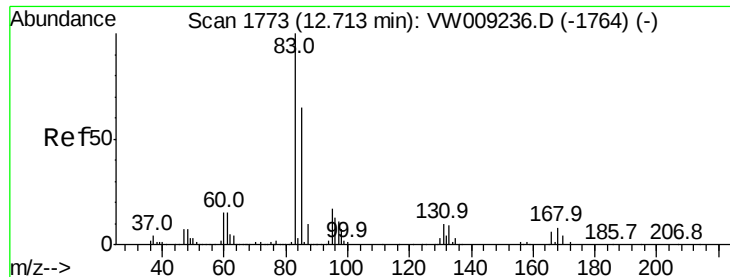
MMDadoda
3/22/2019 3:53:03 AM



#74
N-ethyl acetate
Concen: 176.431 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion: 43 Resp: 770614
Ion Ratio Lower Upper
43 100
70 38.1 30.6 46.0
55 22.4 19.3 28.9
61 22.0 17.0 25.4





#75

1,1,2,2-Tetrachloroethane

Concen: 152.068 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion: 83 Resp: 476308

Ion Ratio Lower Upper

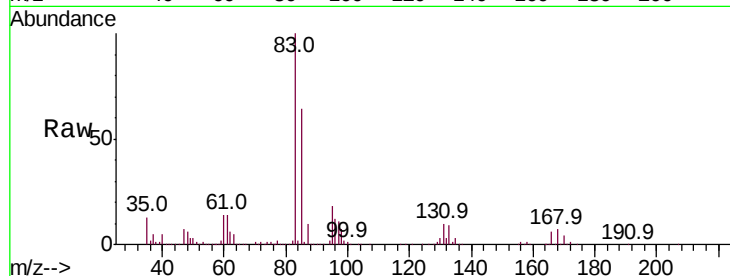
83 100

131 10.7 5.3 16.1

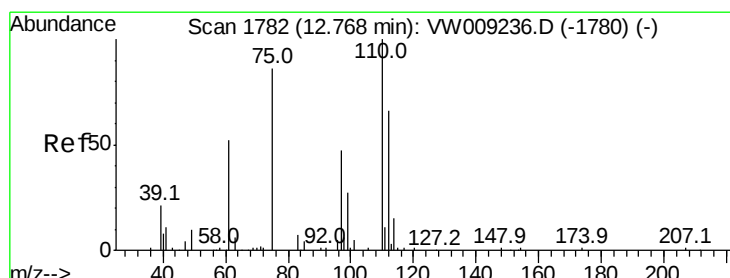
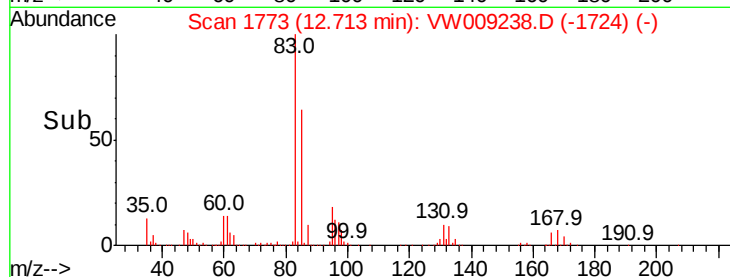
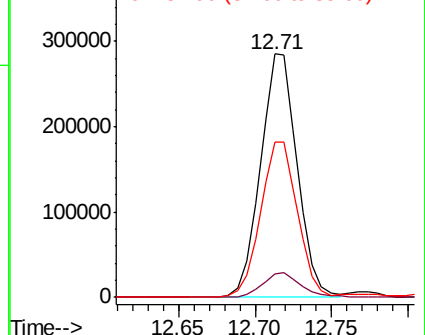
85 64.3 32.6 97.8

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VW



#76

1,2,3-Trichloropropane

Concen: 133.722 ug/l m

RT: 12.77 min Scan# 1782

Delta R.T. 0.00 min

Lab File: VW009238.D

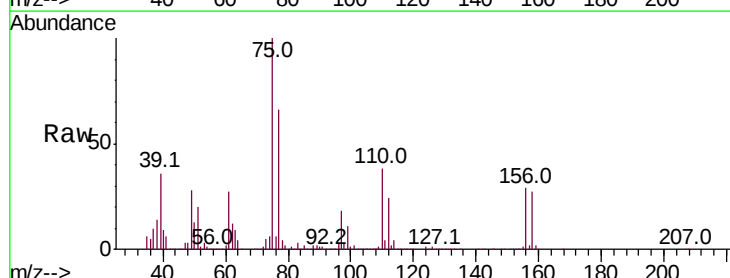
Acq: 19 Mar 2019 13:13

Tgt Ion: 75 Resp: 338713

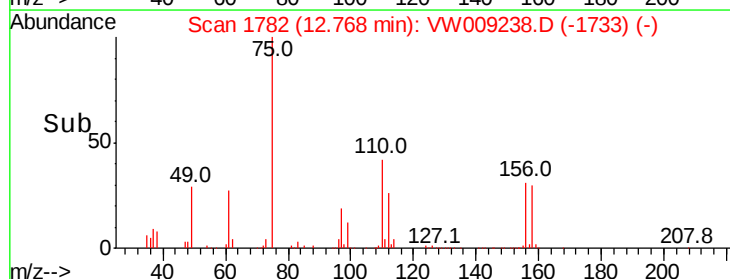
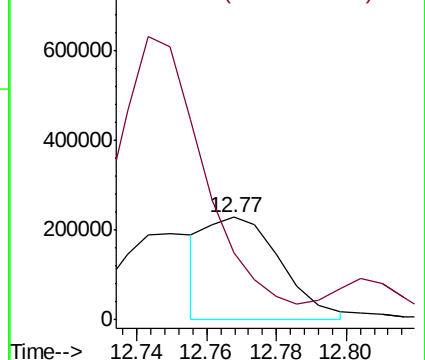
Ion Ratio Lower Upper

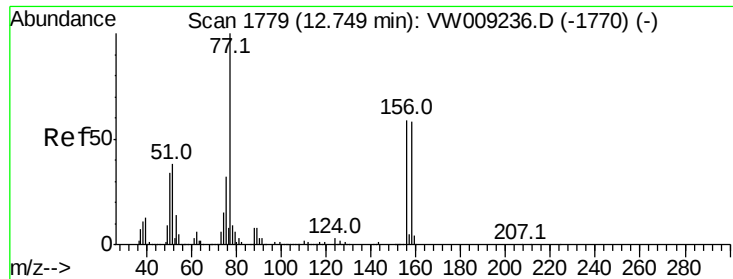
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 77.00 (76.70 to 77.70): VW





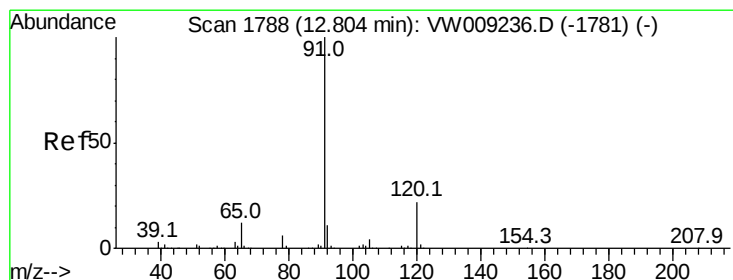
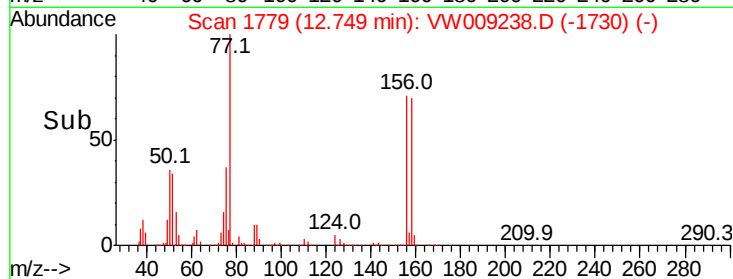
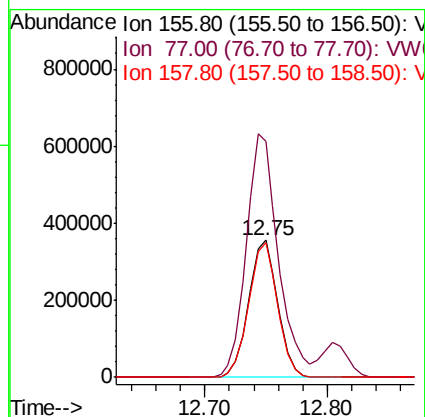
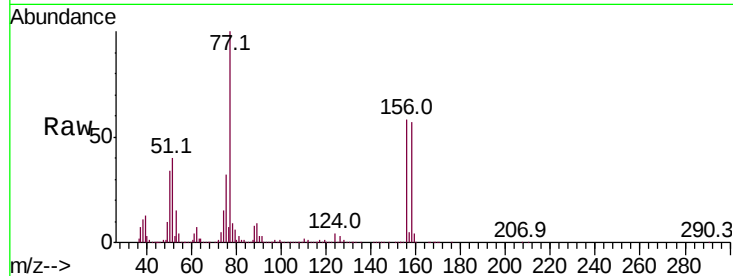
#77
Bromobenzene
Concen: 147.396 ug/l
RT: 12.75 min Scan# 1779
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
156	100		
77	196.0	96.0	288.0
158	97.8	49.1	147.3

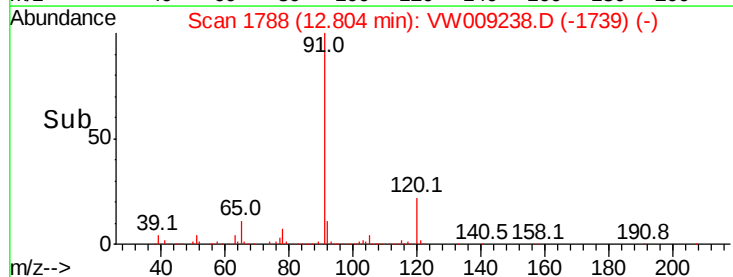
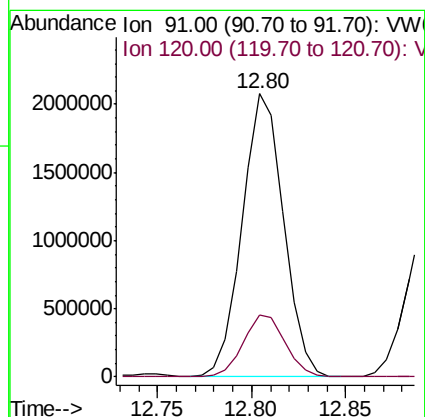
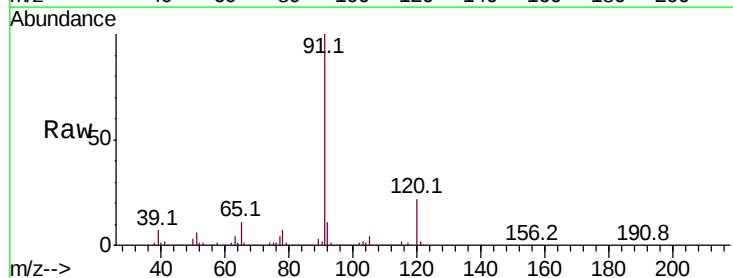
Manual Integrations
APPROVED

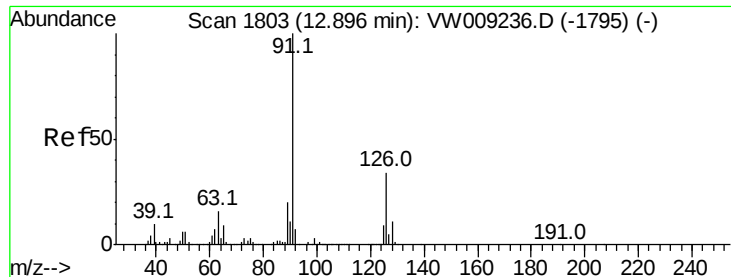
MMDadoda
3/22/2019 3:53:03 AM



#78
n-propylbenzene
Concen: 153.580 ug/l
RT: 12.80 min Scan# 1788
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
91	100		
120	22.3	11.1	33.3





#79

2-Chlorotoluene

Concen: 152.262 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 1778793

Ion Ratio Lower Upper

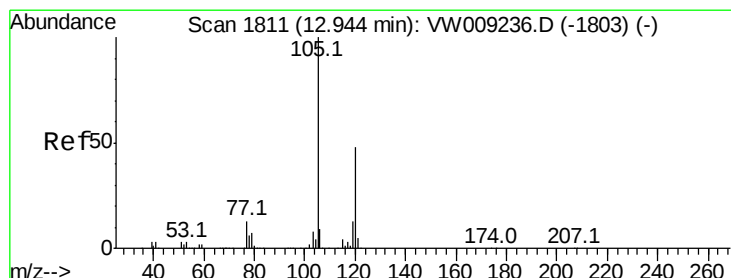
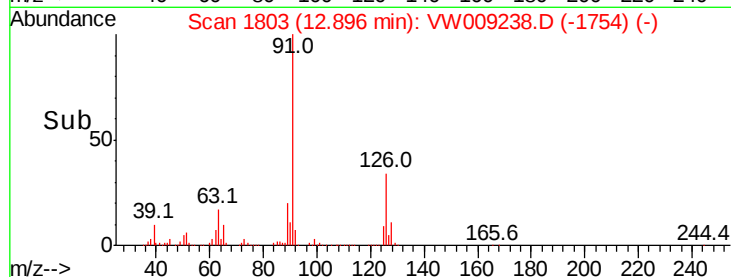
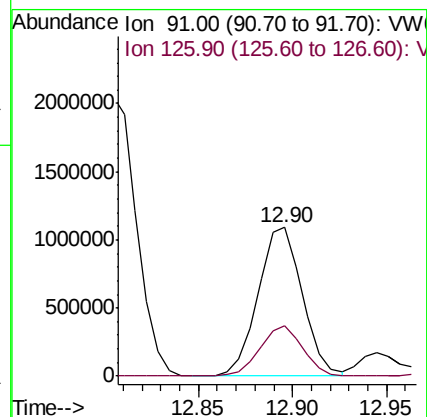
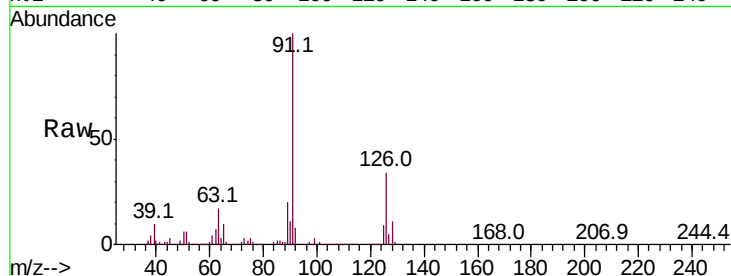
91 100

126 32.9 17.0 51.0

Manual Integrations
APPROVED

MMDadoda

3/22/2019 3:53:03 AM



#80

1,3,5-Trimethylbenzene

Concen: 154.069 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. 0.00 min

Lab File: VW009238.D

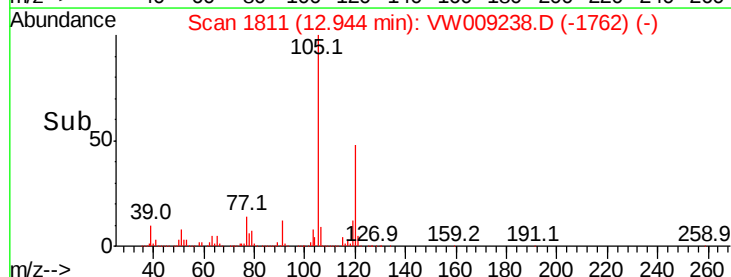
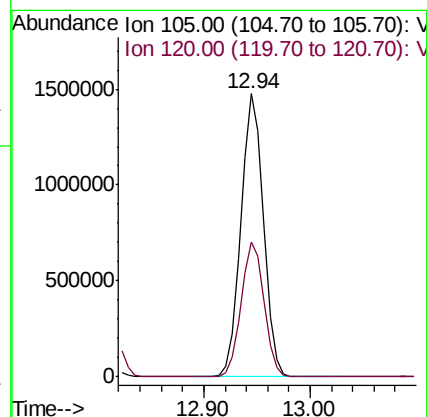
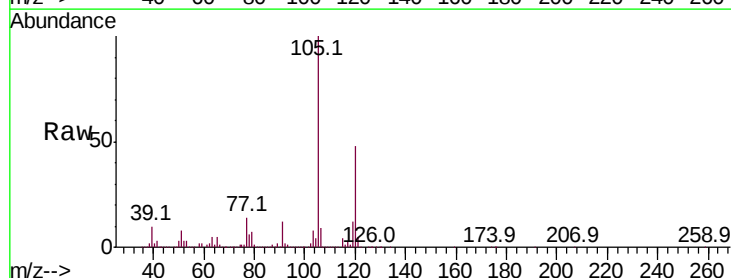
Acq: 19 Mar 2019 13:13

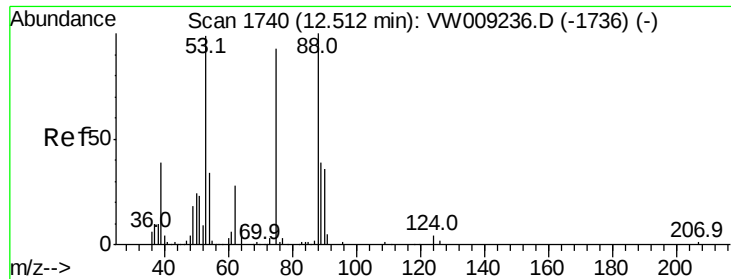
Tgt Ion:105 Resp: 2193900

Ion Ratio Lower Upper

105 100

120 48.5 24.6 74.0





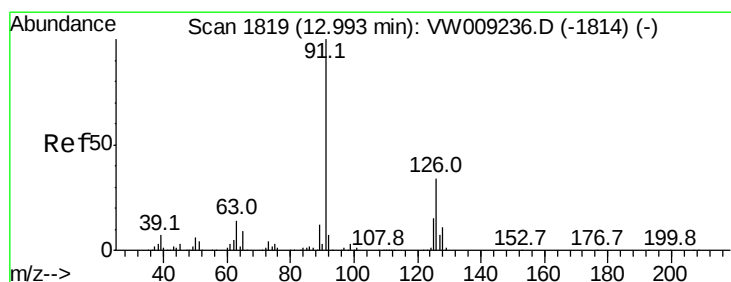
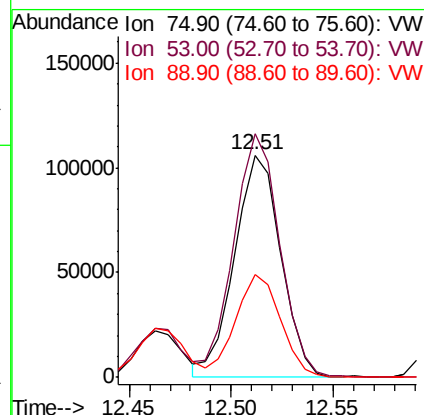
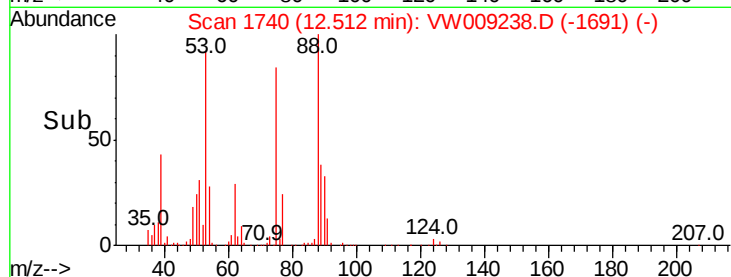
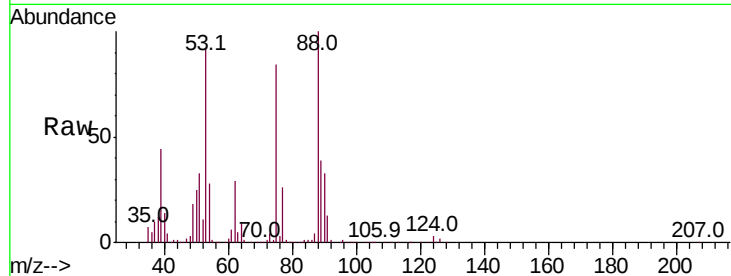
#81
trans-1,4-Dichloro-2-butene
Concen: 173.189 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
75	100		
53	110.0	86.7	130.1
89	45.4	36.4	54.6

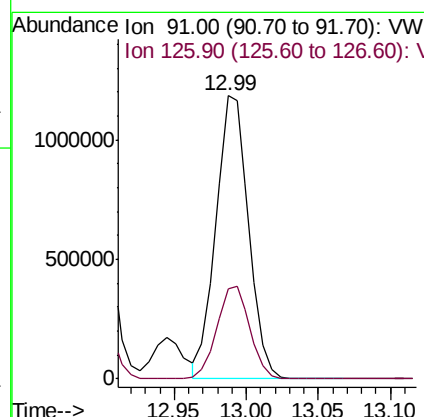
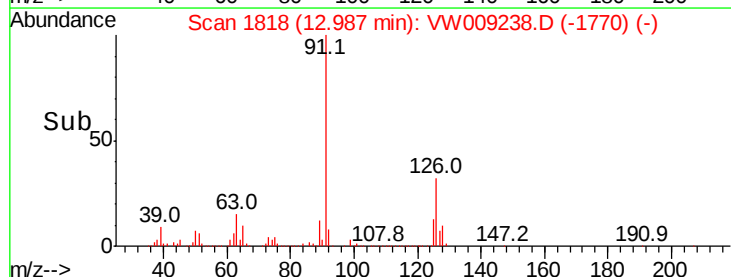
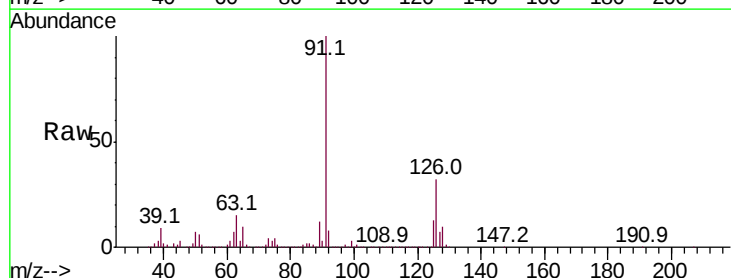
Manual Integrations
APPROVED

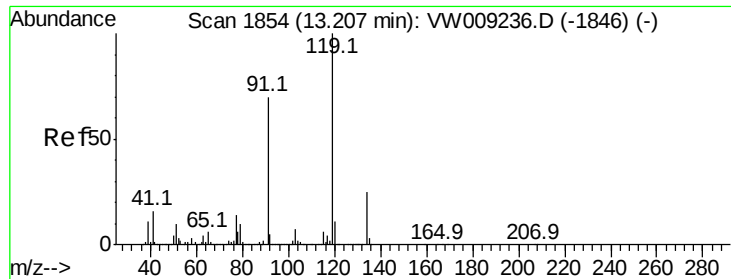
MMDadoda
3/22/2019 3:53:03 AM



#82
4-Chlorotoluene
Concen: 152.241 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.01 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.1	16.9	50.6





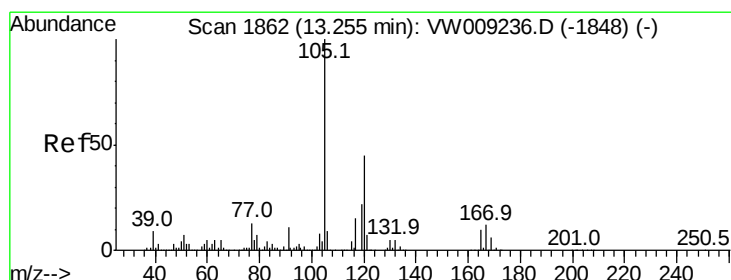
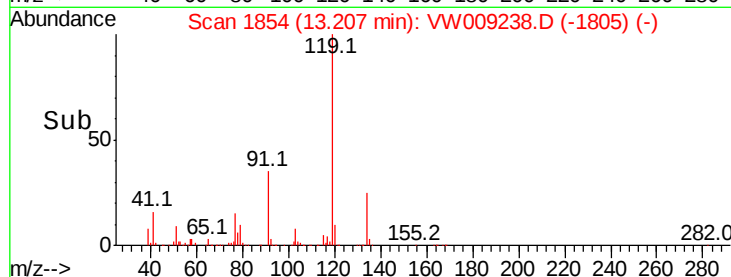
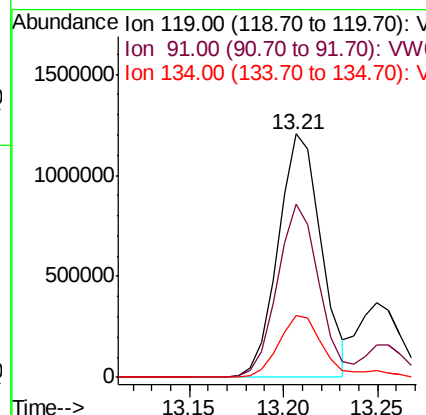
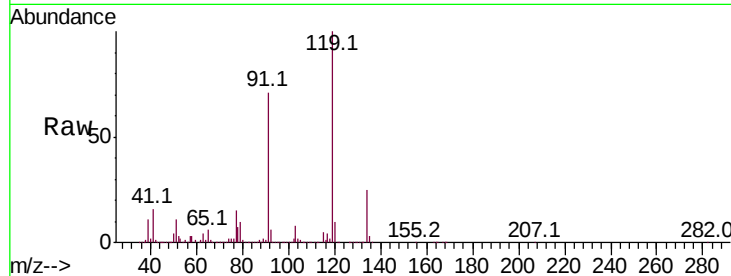
#83
 tert-Butylbenzene
 Concen: 156.789 ug/l
 RT: 13.21 min Scan# 1854
 Delta R.T. 0.00 min
 Lab File: VW009238.D
 Acq: 19 Mar 2019 13:13

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC150

Tot Ion	Ratio	Lower	Upper
119	100		
91	69.3	34.4	103.2
134	27.5	12.7	38.1

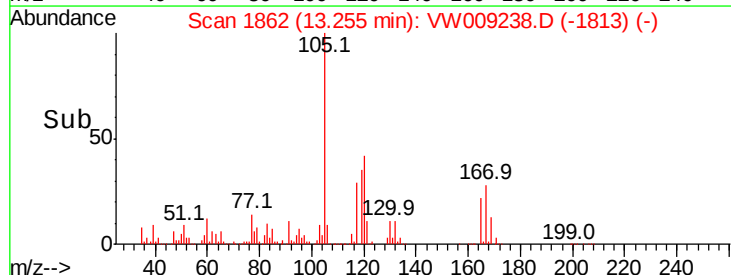
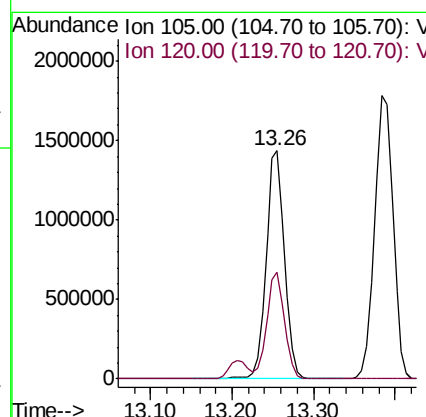
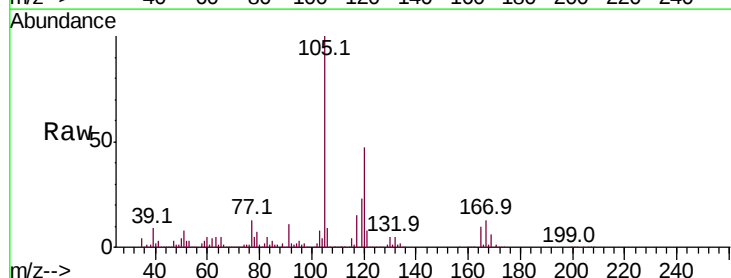
Manual Integrations
 APPROVED

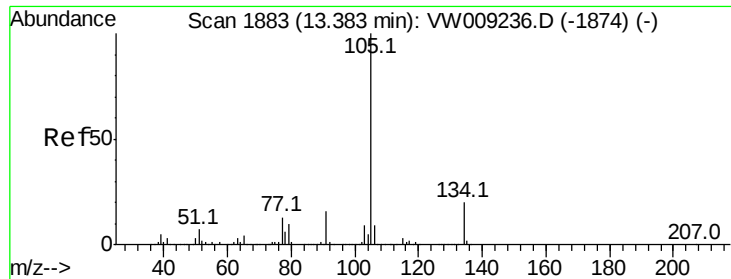
MMDadoda
 3/22/2019 3:53:03 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 154.142 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW009238.D
 Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.2	22.8	68.3





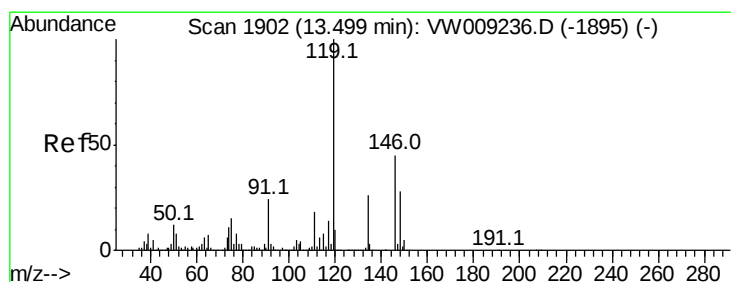
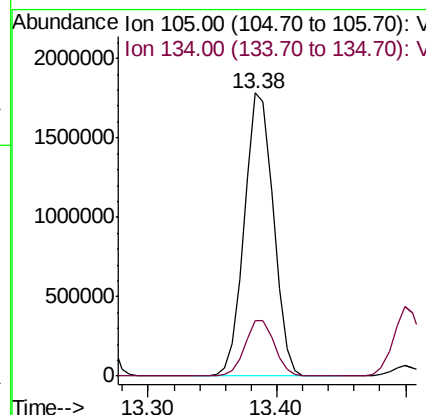
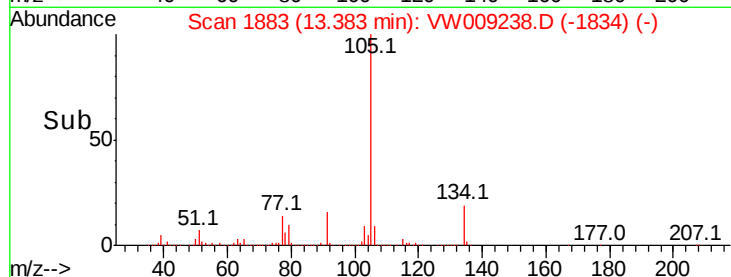
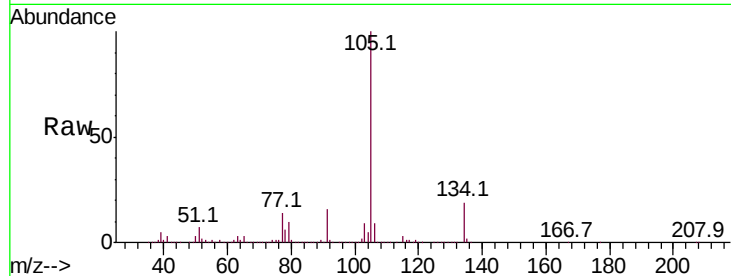
#85
 sec-Butylbenzene
 Concen: 153.782 ug/l
 RT: 13.38 min Scan# 1883
 Delta R.T. 0.00 min
 Lab File: VW009238.D
 Acq: 19 Mar 2019 13:13

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC150

Tot Ion:105 Resp: 2765306
 Ion Ratio Lower Upper
 105 100
 134 19.8 10.2 30.6

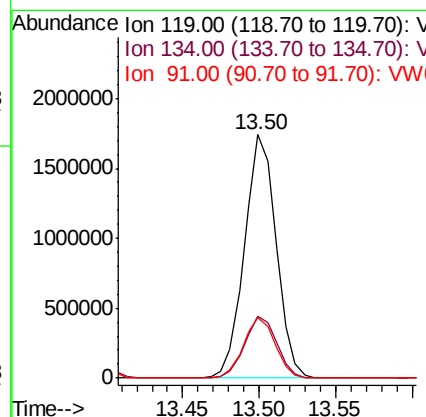
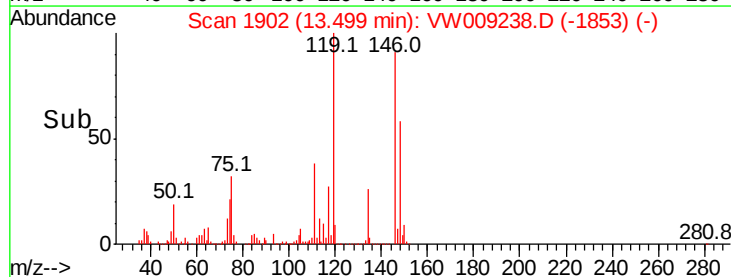
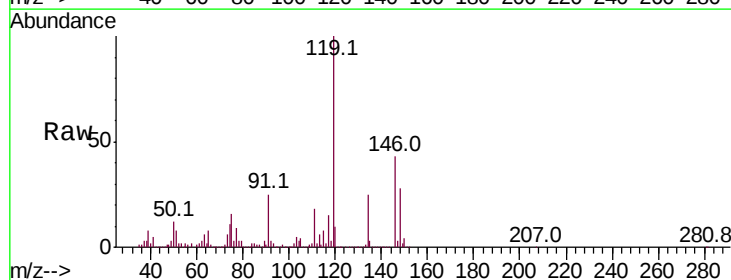
Manual Integrations
 APPROVED

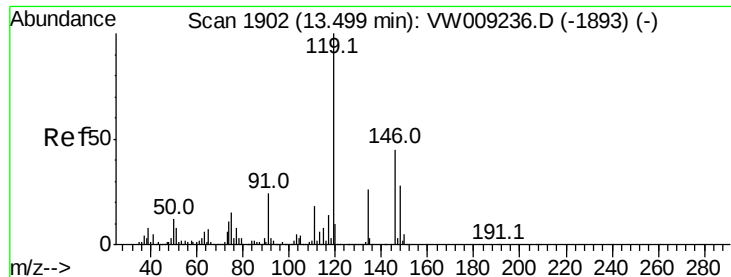
MMDadoda
 3/22/2019 3:53:03 AM



#86
 p-Isopropyltoluene
 Concen: 156.192 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. 0.00 min
 Lab File: VW009238.D
 Acq: 19 Mar 2019 13:13

Tgt Ion:119 Resp: 2501059
 Ion Ratio Lower Upper
 119 100
 134 25.7 13.1 39.3
 91 24.8 12.3 36.8





#87

1,3-Dichlorobenzene

Concen: 145.447 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

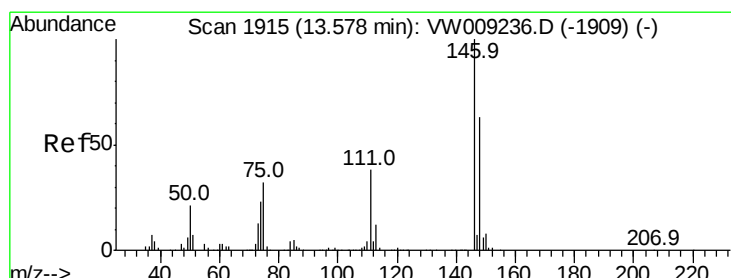
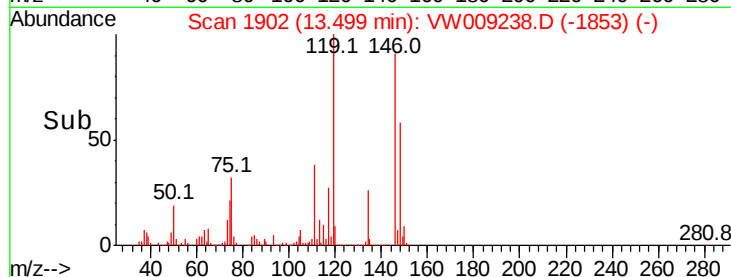
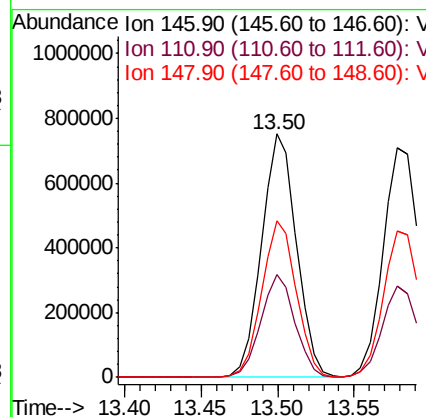
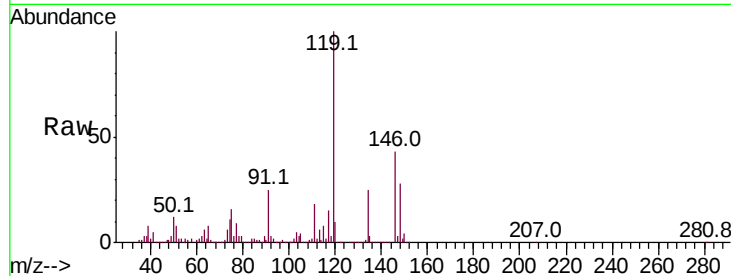
Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion:146 Resp: 1193770

Ion	Ratio	Lower	Upper
146	100		
111	41.2	20.1	60.2
148	63.8	31.4	94.3

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM



#88

1,4-Dichlorobenzene

Concen: 141.085 ug/l

RT: 13.58 min Scan# 1915

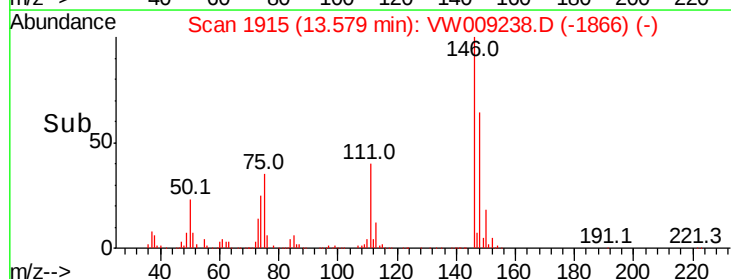
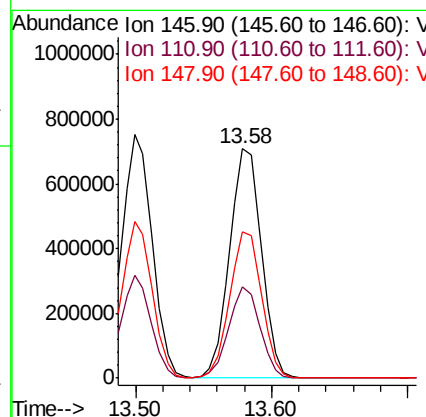
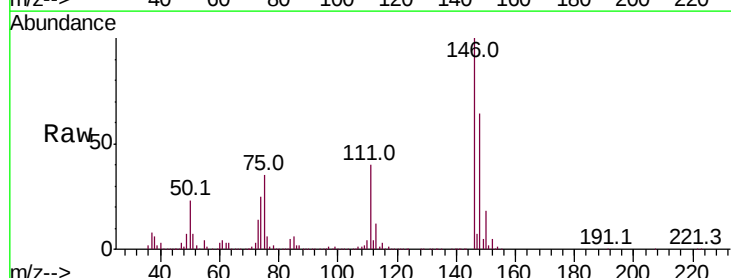
Delta R.T. 0.00 min

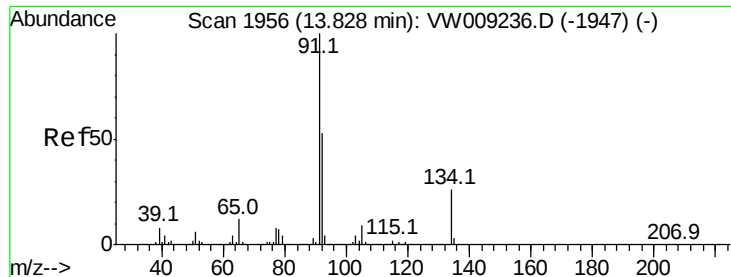
Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Tgt Ion:146 Resp: 1152978

Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.9	59.6
148	64.0	32.2	96.6





#89

n-Butylbenzene

Concen: 153.988 ug/l

RT: 13.83 min Scan# 1956

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion: 91 Resp: 2366930

Ion Ratio Lower Upper

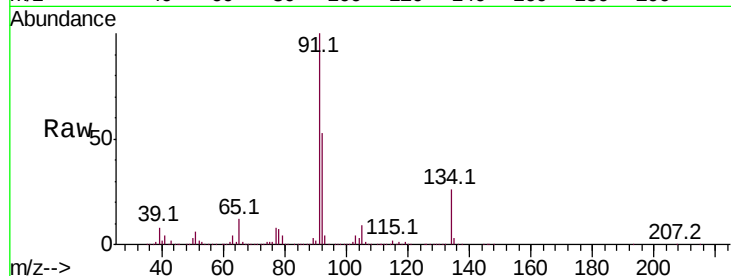
91 100

92 53.5 26.4 79.0

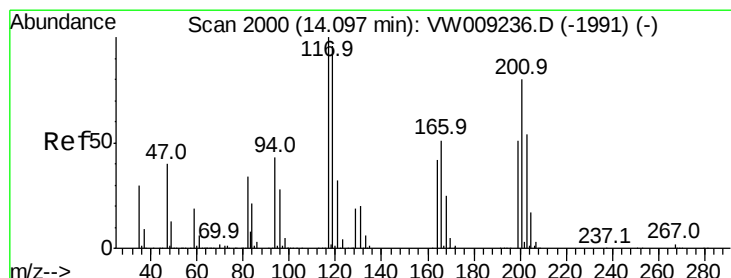
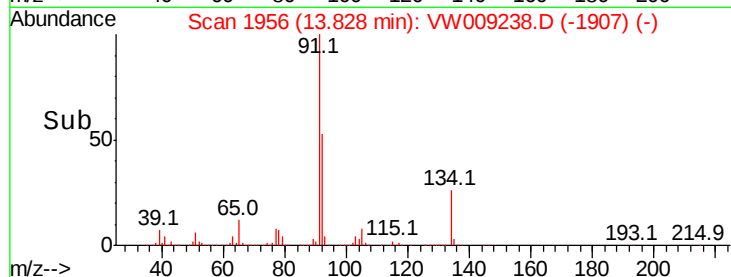
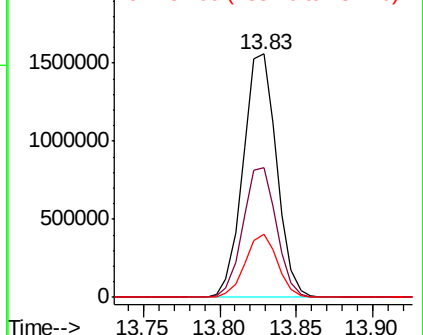
134 25.1 12.9 38.6

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM



Abundance Ion 91.00 (90.70 to 91.70): VW
Ion 92.00 (91.70 to 92.70): VW
Ion 134.00 (133.70 to 134.70): V



#90

Hexachloroethane

Concen: 147.898 ug/l

RT: 14.10 min Scan# 2000

Delta R.T. 0.00 min

Lab File: VW009238.D

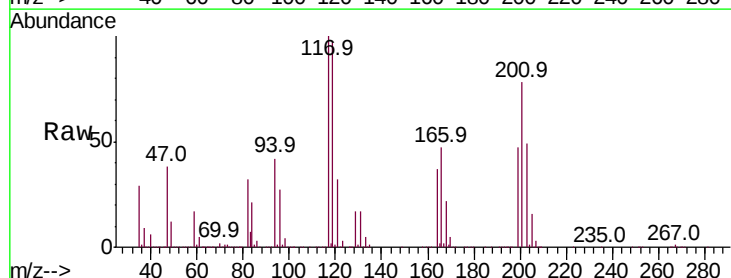
Acq: 19 Mar 2019 13:13

Tgt Ion: 117 Resp: 466928

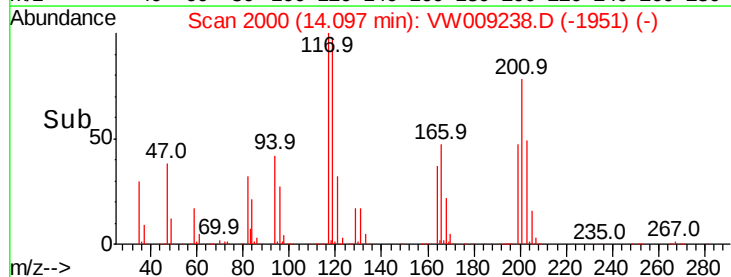
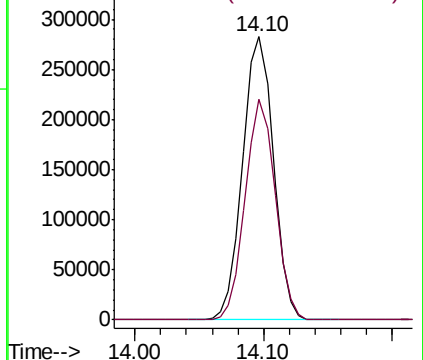
Ion Ratio Lower Upper

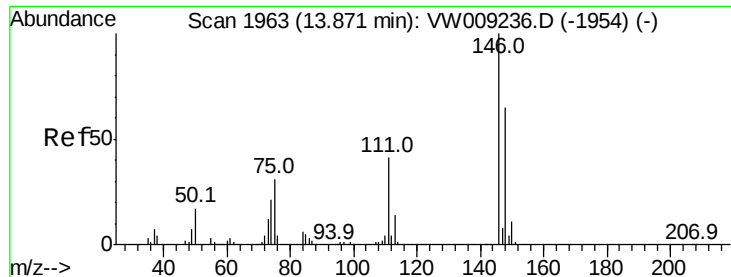
117 100

201 76.0 38.2 114.6



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 200.70 (200.40 to 201.40): V





#91

1,2-Dichlorobenzene

Concen: 144.486 ug/l

RT: 13.87 min Scan# 1963

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC150

Tot Ion:146 Resp: 1063389

Ion Ratio Lower Upper

146 100

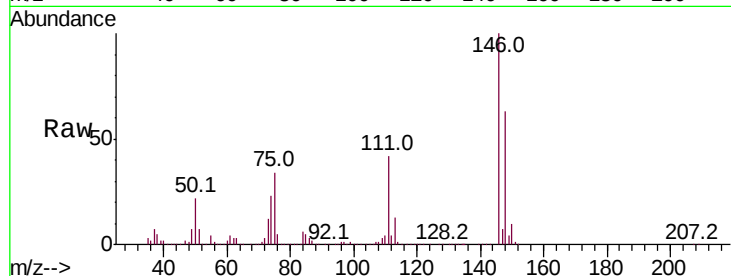
111 41.9 20.4 61.2

148 63.7 31.9 95.9

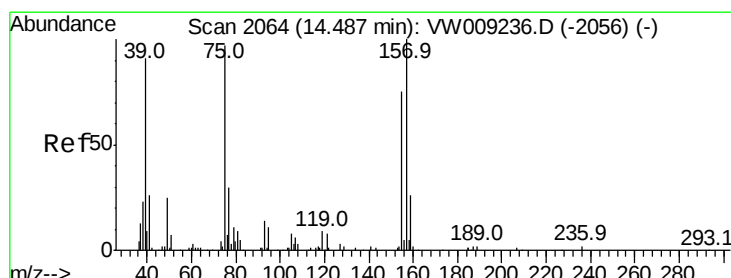
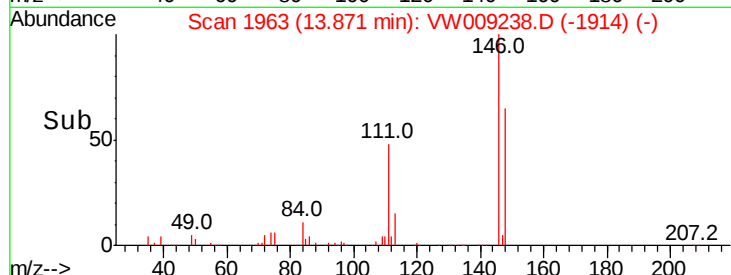
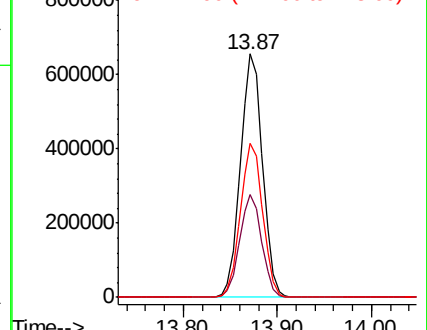
Manual Integrations
APPROVED

MMDadoda

3/22/2019 3:53:03 AM



Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 156.764 ug/l

RT: 14.49 min Scan# 2064

Delta R.T. 0.00 min

Lab File: VW009238.D

Acq: 19 Mar 2019 13:13

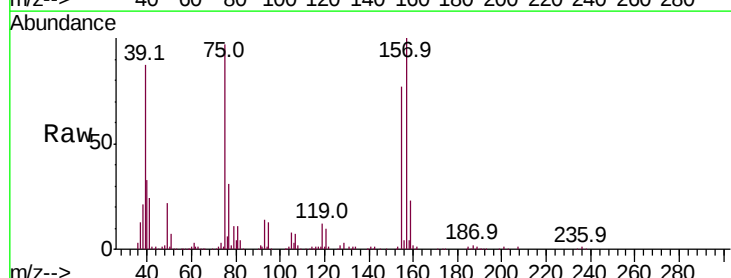
Tgt Ion: 75 Resp: 87921

Ion Ratio Lower Upper

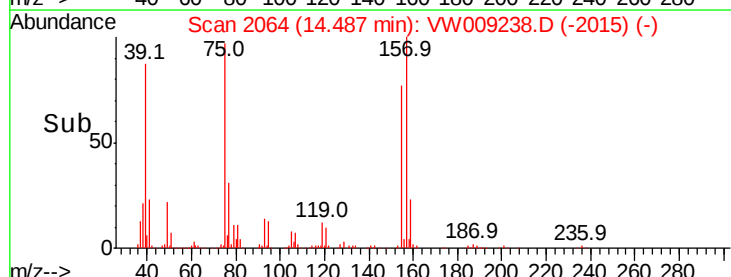
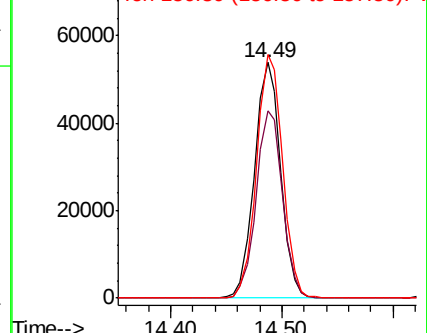
75 100

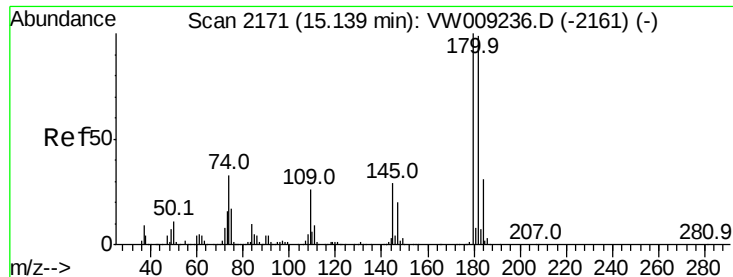
155 80.2 39.3 117.8

157 103.2 49.5 148.5



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





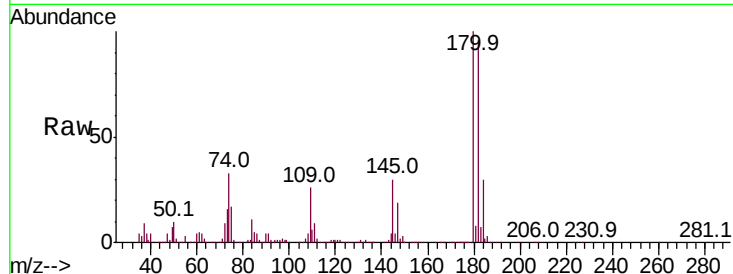
#93
 1,2,4-Trichlorobenzene
 Concen: 148.371 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. 0.00 min
 Lab File: VW009238.D
 Acq: 19 Mar 2019 13:13

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC150

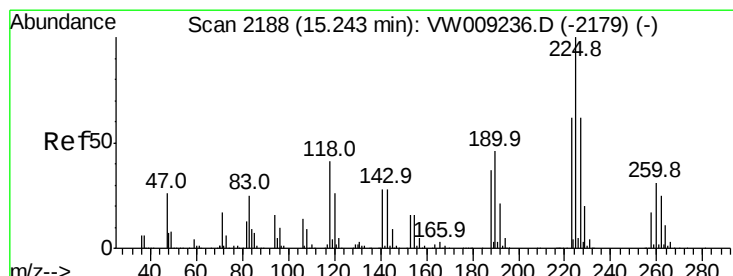
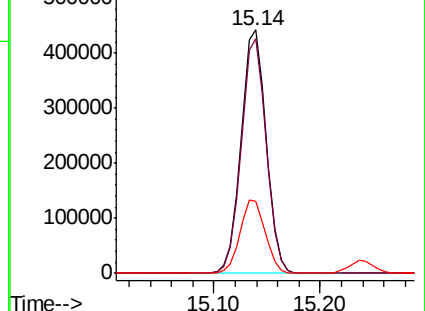
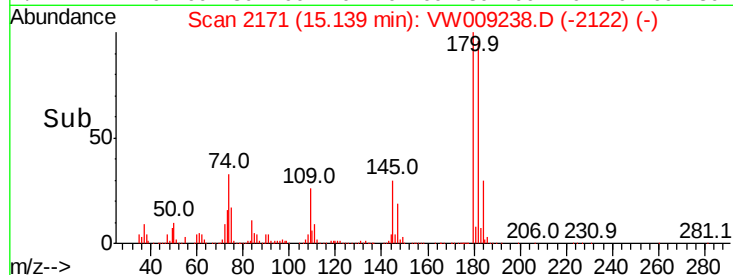
Tot Ion:	180	Resp:	733366
Ion Ratio	Lower	Upper	
180	100		
182	95.4	47.9	143.7
145	30.4	15.0	45.0

Manual Integrations
 APPROVED

MMDadoda
 3/22/2019 3:53:03 AM

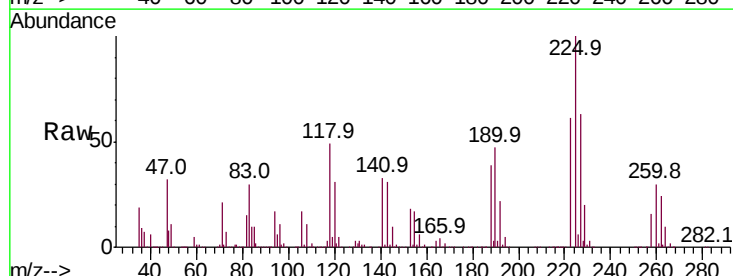


Abundance Ion 179.80 (179.50 to 180.50): V
 Ion 181.80 (181.50 to 182.50): V
 Ion 144.80 (144.50 to 145.50): V

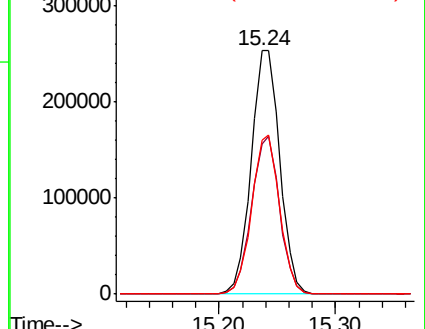
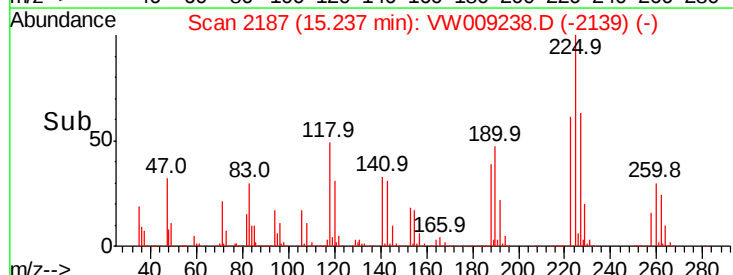


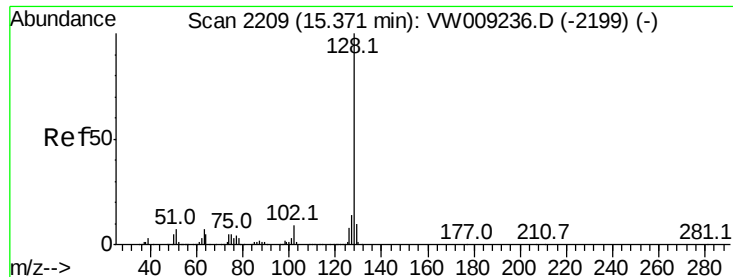
#94
 Hexachlorobutadiene
 Concen: 138.397 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.01 min
 Lab File: VW009238.D
 Acq: 19 Mar 2019 13:13

Tgt Ion:	225	Resp:	435080
Ion Ratio	Lower	Upper	
225	100		
223	63.2	31.4	94.3
227	63.4	32.1	96.5



Abundance Ion 224.70 (224.40 to 225.40): V
 Ion 222.70 (222.40 to 223.40): V
 Ion 226.70 (226.40 to 227.40): V





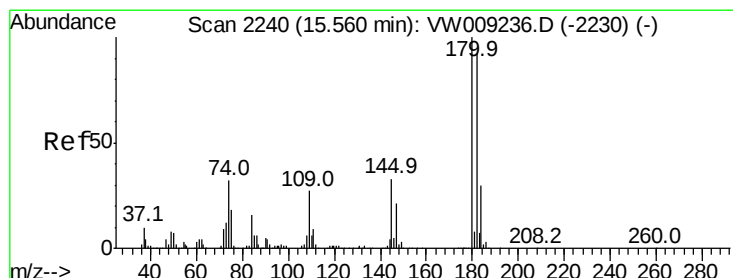
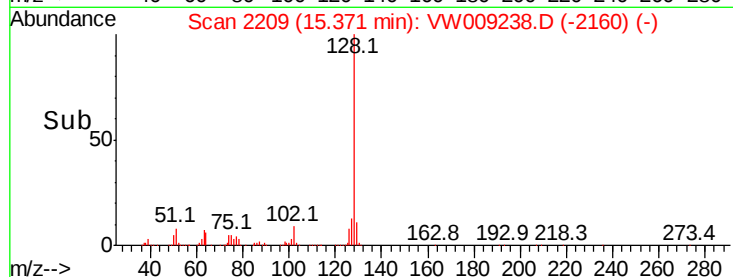
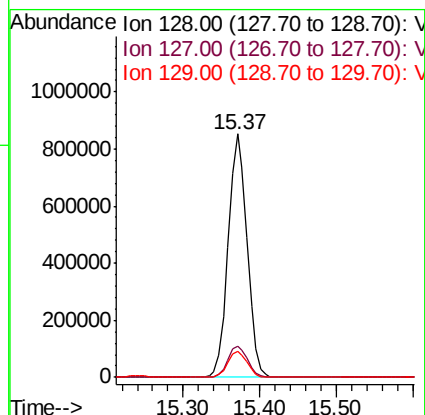
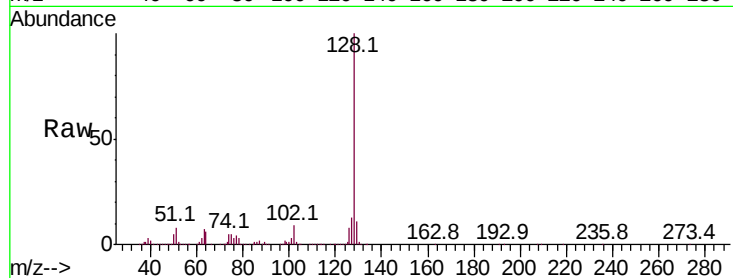
#95
Naphthalene
Concen: 169.425 ug/l
RT: 15.37 min Scan# 2209
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC150

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.3	10.8	16.2
129	10.9	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/22/2019 3:53:03 AM



#96
1,2,3-Trichlorobenzene
Concen: 146.753 ug/l
RT: 15.56 min Scan# 2240
Delta R.T. 0.00 min
Lab File: VW009238.D
Acq: 19 Mar 2019 13:13

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.7	47.3	141.9
145	32.8	16.0	48.0

