

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW093019\
 Data File : VW013365.D
 Acq On : 01 Oct 2019 06:50
 Operator : SY/VA
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 10/1/2019 11:32:39 AM

Quant Time: Oct 01 07:18:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	325527	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	488497	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	414273	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.55	152	198729	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	131796	49.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.22%	
35) Dibromofluoromethane	7.88	113	136926	50.96	ug/l	0.00
Spiked Amount	50.000		Recovery	=	101.92%	
50) Toluene-d8	10.32	98	547411	48.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.36%	
62) 4-Bromofluorobenzene	12.62	95	206858	53.86	ug/l	0.00
Spiked Amount	50.000		Recovery	=	107.72%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.00	85	53536	28.511	ug/l	94
3) Chloromethane	2.21	50	104523	43.302	ug/l	99
4) Vinyl Chloride	2.36	62	136278	43.793	ug/l	99
5) Bromomethane	2.76	94	83790	42.489	ug/l	90
6) Chloroethane	2.91	64	79615	43.404	ug/l	100
7) Trichlorofluoromethane	3.25	101	61934	34.515	ug/l	97
8) Diethyl Ether	3.68	74	77987	50.882	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	4.06	101	135508	46.385	ug/l	99
10) Methyl Iodide	4.27	142	235222	51.933	ug/l	99
11) Tert butyl alcohol	5.20	59	59356	312.899	ug/l	96
12) 1,1-Dichloroethene	4.04	96	145735	48.174	ug/l	95
13) Acrolein	3.89	56	22308	145.863	ug/l	96
14) Allyl chloride	4.67	41	222309	46.174	ug/l	98
15) Acrylonitrile	5.36	53	171220	258.820	ug/l	98
16) Acetone	4.12	43	126312	210.825	ug/l	94
17) Carbon Disulfide	4.38	76	390836	44.698	ug/l	100
18) Methyl Acetate	4.67	43	96394	57.236	ug/l	99
19) Methyl tert-butyl Ether	5.42	73	233342	50.328	ug/l	96
20) Methylene Chloride	4.91	84	162653	53.273	ug/l	97
21) trans-1,2-Dichloroethene	5.42	96	164570	50.332	ug/l	98
22) Diisopropyl ether	6.31	45	459619	50.202	ug/l	98
23) Vinyl Acetate	6.25	43	1283360	236.284	ug/l	98
24) 1,1-Dichloroethane	6.21	63	275754	49.914	ug/l	99
25) 2-Butanone	7.17	43	214178	238.135	ug/l	91
26) 2,2-Dichloropropane	7.16	77	137527	41.006	ug/l	95
27) cis-1,2-Dichloroethene	7.17	96	175054	50.732	ug/l	97
28) Bromochloromethane	7.51	49	115224	54.342	ug/l	93
29) Tetrahydrofuran	7.52	42	142718	258.748	ug/l	98
30) Chloroform	7.67	83	268615	49.662	ug/l	100
31) Cyclohexane	7.95	56	258179	44.832	ug/l	98
32) 1,1,1-Trichloroethane	7.87	97	210581	48.070	ug/l	99
36) 1,1-Dichloropropene	8.08	75	221279	46.768	ug/l	98
37) Ethyl Acetate	7.25	43	99319	49.391	ug/l	97
38) Carbon Tetrachloride	8.07	117	189971	44.790	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW093019\
 Data File : VW013365.D
 Acq On : 01 Oct 2019 06:50
 Operator : SY/VA
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 46 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleID :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 10/1/2019 11:32:39 AM

Quant Time: Oct 01 07:18:02 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	286293	47.084	ug/l	99
40) Benzene	8.32	78	646447	48.983	ug/l	99
41) Methacrylonitrile	7.48	41	67789	56.484	ug/l #	90
42) 1,2-Dichloroethane	8.40	62	166598	46.959	ug/l	96
43) Isopropyl Acetate	8.42	43	186402	48.366	ug/l	99
44) Trichloroethene	9.09	130	181119	48.914	ug/l	97
45) 1,2-Dichloropropane	9.37	63	159380	49.466	ug/l	99
46) Dibromomethane	9.46	93	77971	49.844	ug/l	98
47) Bromodichloromethane	9.64	83	192910	48.465	ug/l	97
48) Methyl methacrylate	9.43	41	88571	48.874	ug/l	95
49) 1,4-Dioxane	9.46	88	25581	1089.432	ug/l #	92
51) 4-Methyl-2-Pentanone	10.21	43	483825	250.415	ug/l	98
52) Toluene	10.38	92	415504	49.125	ug/l	98
53) t-1,3-Dichloropropene	10.60	75	187335	45.809	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	232710	46.802	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	117694	50.337	ug/l	98
56) Ethyl methacrylate	10.65	69	160669	52.507	ug/l	96
57) 1,3-Dichloropropane	10.93	76	200601	49.166	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	354178	250.021	ug/l	97
59) 2-Hexanone	10.97	43	315333	237.222	ug/l	97
60) Dibromochloromethane	11.13	129	159069	59.915	ug/l	90
61) 1,2-Dibromoethane	11.24	107	109822	49.401	ug/l	97
64) Tetrachloroethene	10.86	164	174474	55.508	ug/l	99
65) Chlorobenzene	11.66	112	427282	49.392	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	150329	50.866	ug/l	98
67) Ethyl Benzene	11.73	91	783423	49.981	ug/l	100
68) m/p-Xylenes	11.84	106	592369	99.176	ug/l	100
69) o-Xylene	12.16	106	284422	51.218	ug/l	96
70) Styrene	12.18	104	487054	51.088	ug/l	99
71) Bromoform	12.35	173	88932	56.958	ug/l	94
73) Isopropylbenzene	12.46	105	786448	53.572	ug/l	98
74) N-amyl acetate	12.27	43	165530	50.814	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	130863	53.301	ug/l	97
76) 1,2,3-Trichloropropane	12.77	75	80207m	45.701	ug/l	
77) Bromobenzene	12.74	156	180103	51.771	ug/l	98
78) n-propylbenzene	12.80	91	845679	49.214	ug/l	98
79) 2-Chlorotoluene	12.89	91	493992	51.313	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	636157	51.551	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.51	75	35819	45.797	ug/l	99
82) 4-Chlorotoluene	12.99	91	508323	50.071	ug/l	100
83) tert-Butylbenzene	13.21	119	593433	54.789	ug/l	97
84) 1,2,4-Trimethylbenzene	13.25	105	611100	49.765	ug/l	100
85) sec-Butylbenzene	13.38	105	771845	51.688	ug/l	97
86) p-Isopropyltoluene	13.49	119	716144	51.706	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	345946	51.671	ug/l	100
88) 1,4-Dichlorobenzene	13.58	146	339691	51.732	ug/l	98
89) n-Butylbenzene	13.82	91	645745	51.060	ug/l	99
90) Hexachloroethane	14.09	117	121731	52.318	ug/l	100
91) 1,2-Dichlorobenzene	13.87	146	305153	52.683	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.48	75	19773	52.654	ug/l	93

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW093019\
Data File : VW013365.D
Acq On : 01 Oct 2019 06:50
Operator : SY/VA
Sample : VSTDCCC050
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 46 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:32:39 AM

Quant Time: Oct 01 07:18:02 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
Quant Title : SW846 8260
QLast Update : Fri Sep 20 15:58:08 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	220528	53.132	ug/l	97
94) Hexachlorobutadiene	15.23	225	136593	48.103	ug/l	97
95) Naphthalene	15.36	128	400172	58.950	ug/l	99
96) 1,2,3-Trichlorobenzene	15.55	180	194759	54.305	ug/l	98

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

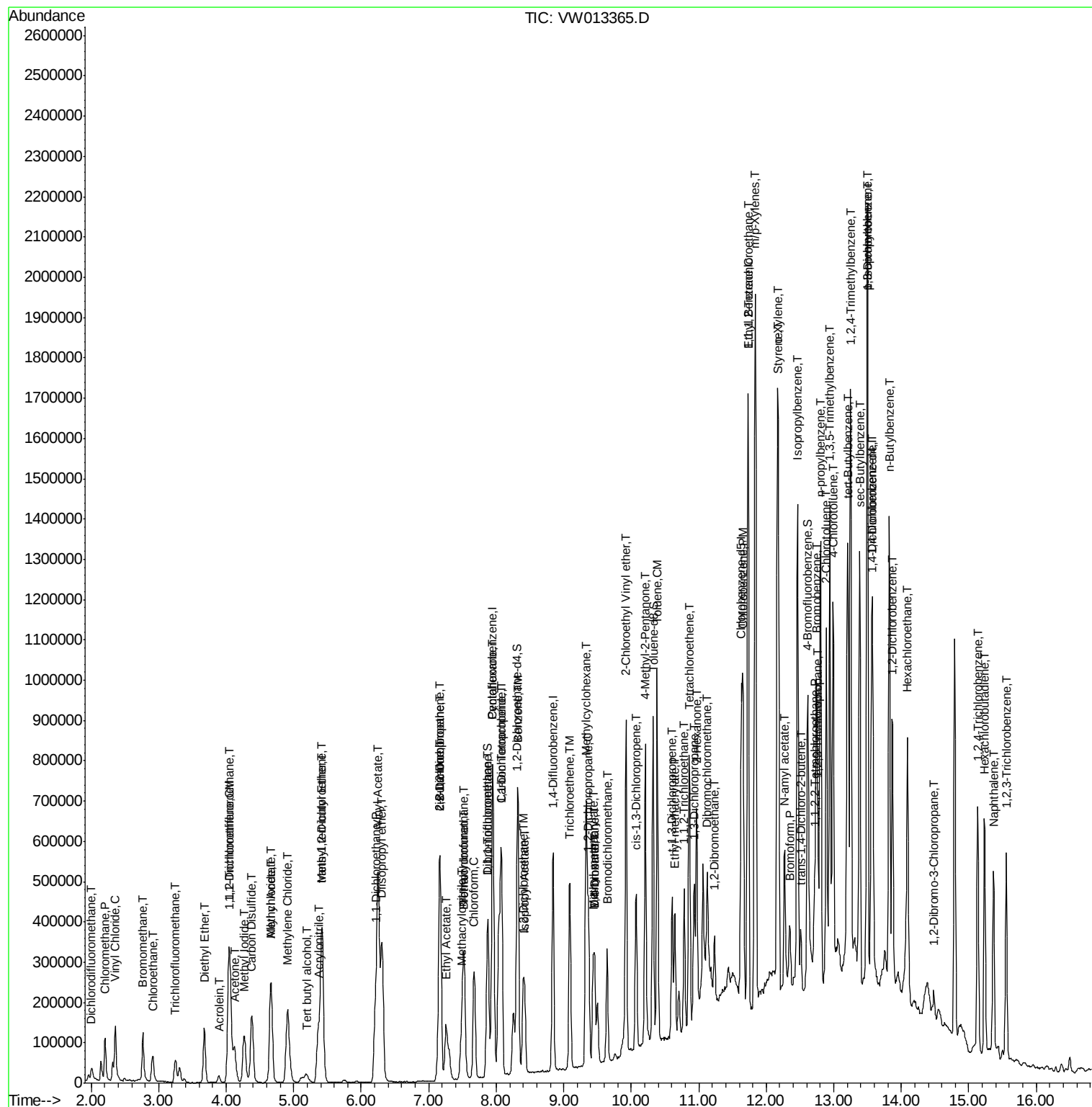
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW093019\
 Data File : VW013365.D
 Acq On : 01 Oct 2019 06:50
 Operator : SY/VA
 Sample : VSTDCCC050
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 46 Sample Multiplier: 1

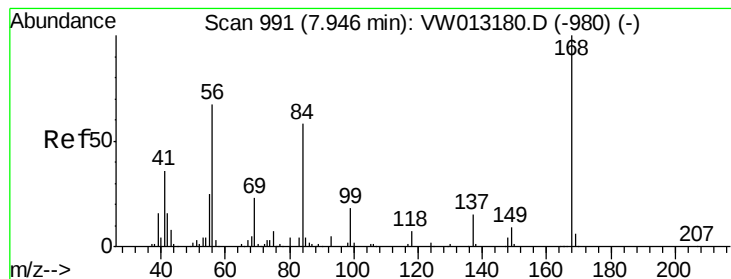
Instrument :
 MSVOA_W
 Client Sampled :
 VSTDCCC050EC

Manual Integrations
 APPROVED

MMDadoda
 10/1/2019 11:32:39 AM

Quant Time: Oct 01 07:18:02 2019
 Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W092019S.M
 Quant Title : SW846 8260
 QLast Update : Fri Sep 20 15:58:08 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: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion:168 Resp: 325527

Ion Ratio Lower Upper

168 100

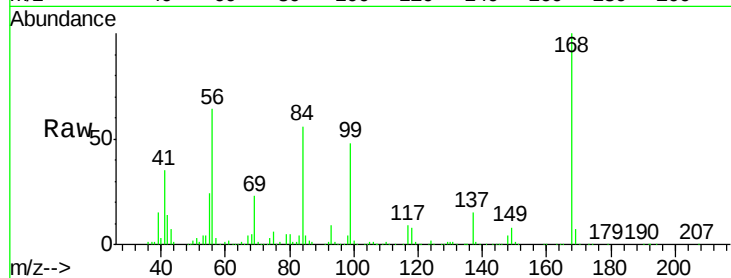
99 47.6 40.2 60.4

Manual Integrations

APPROVED

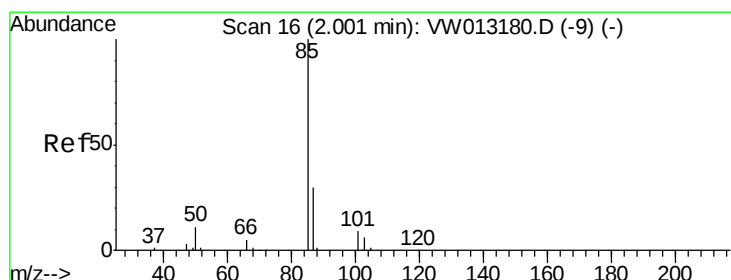
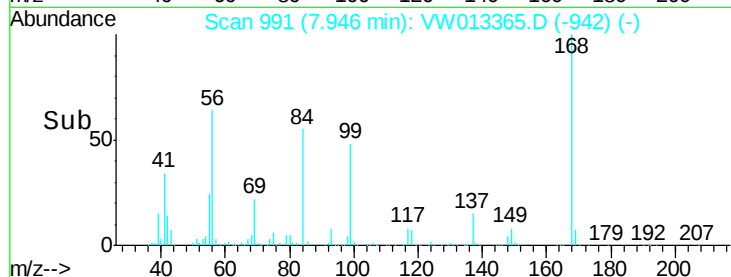
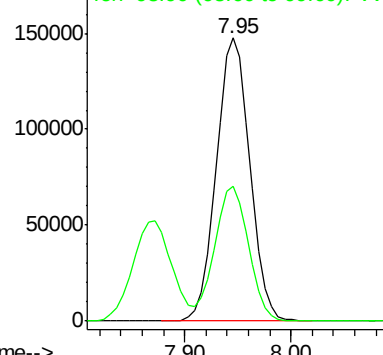
MMDadoda

10/1/2019 11:32:39 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 28.511 ug/l

RT: 2.00 min Scan# 16

Delta R.T. 0.00 min

Lab File: VW013365.D

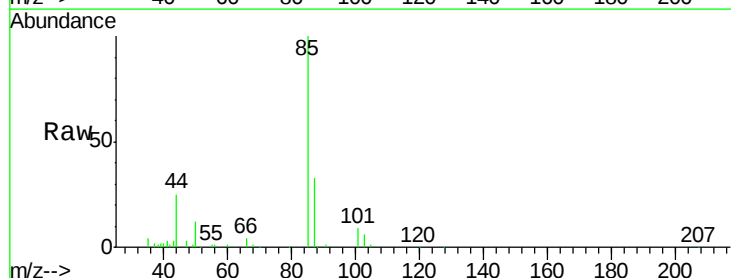
Acq: 01 Oct 2019 06:50

Tgt Ion: 85 Resp: 53536

Ion Ratio Lower Upper

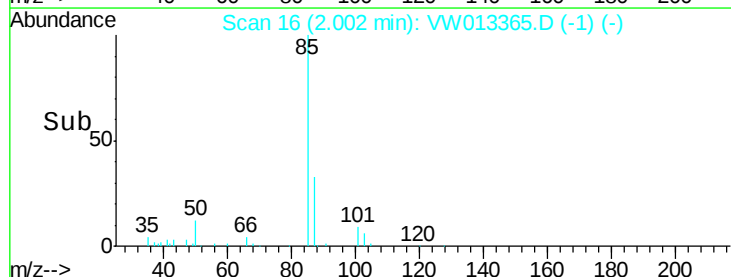
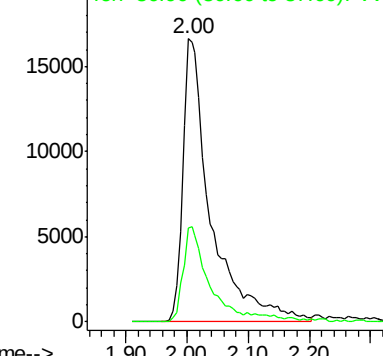
85 100

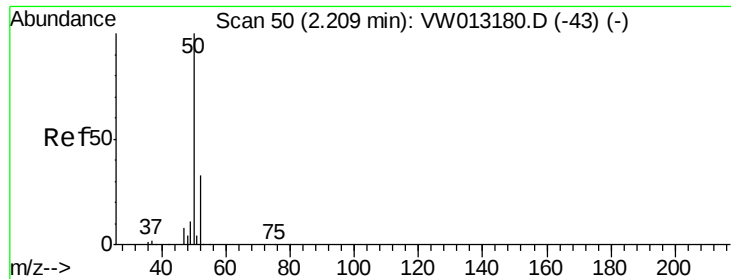
87 33.2 15.1 45.3



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 43.302 ug/l

RT: 2.21 min Scan# 50

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 50 Resp: 104523

Ion Ratio Lower Upper

50 100

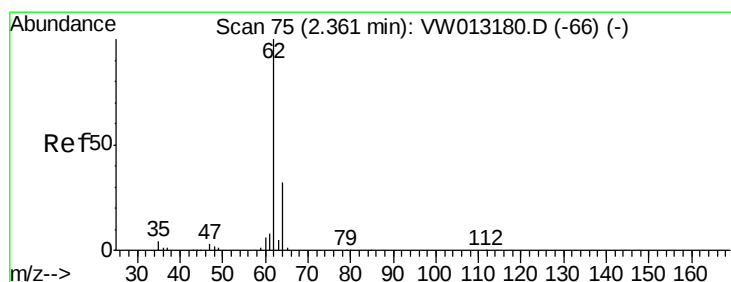
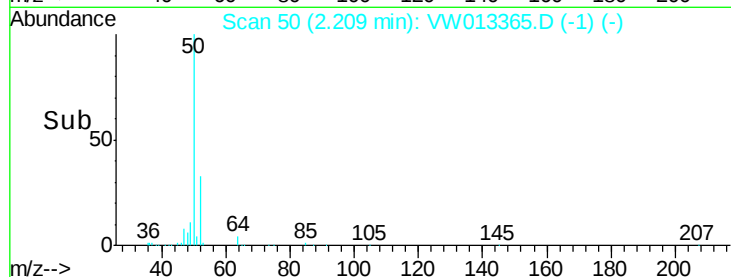
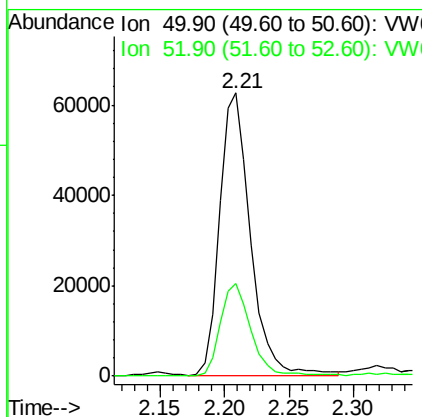
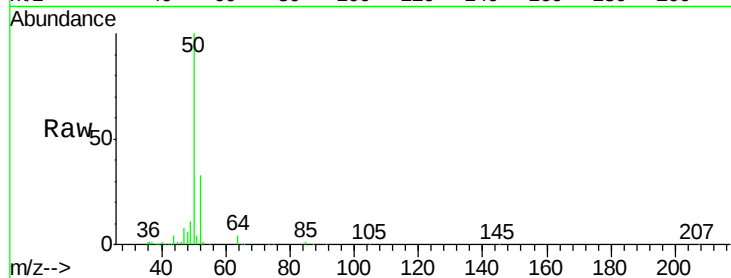
52 32.9 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:32:39 AM



#4

Vinyl Chloride

Concen: 43.793 ug/l

RT: 2.36 min Scan# 74

Delta R.T. -0.01 min

Lab File: VW013365.D

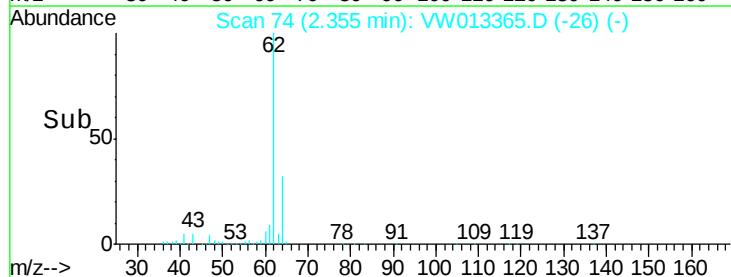
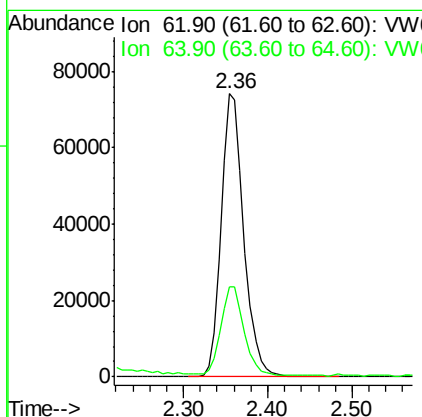
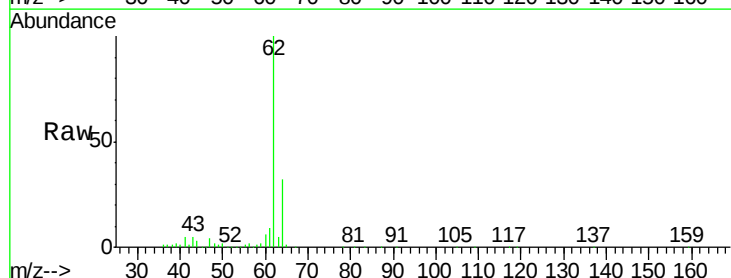
Acq: 01 Oct 2019 06:50

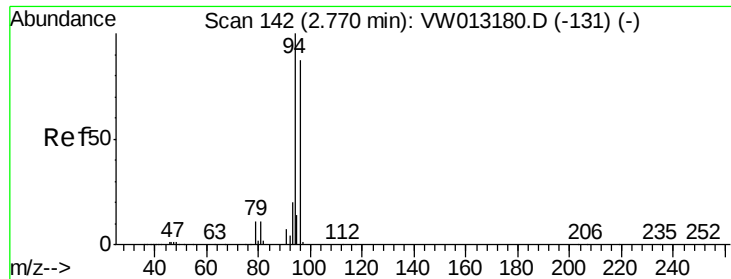
Tgt Ion: 62 Resp: 136278

Ion Ratio Lower Upper

62 100

64 31.0 25.3 37.9





#5

Bromomethane

Concen: 42.489 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 94 Resp: 83790

Ion Ratio Lower Upper

94 100

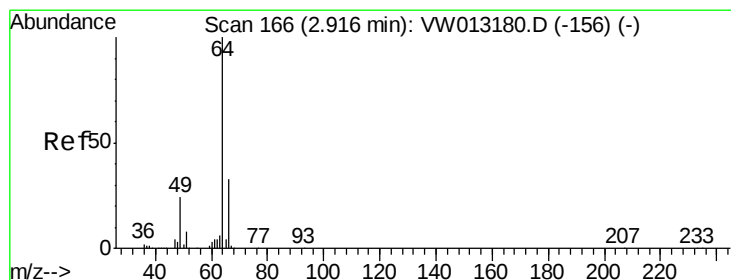
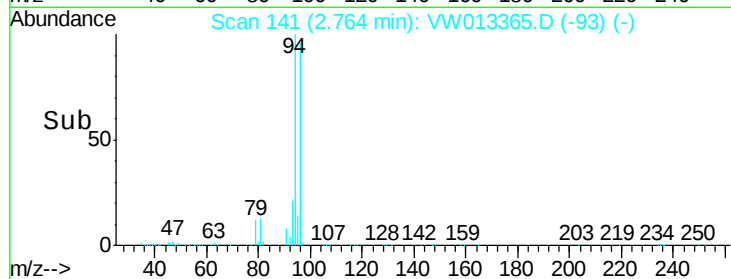
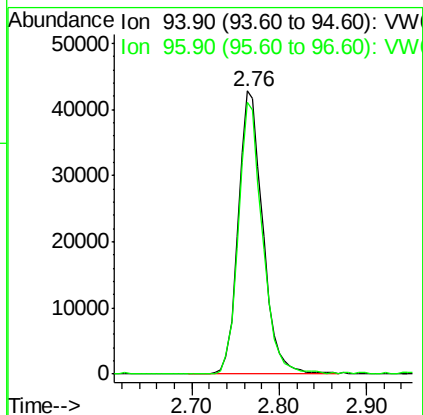
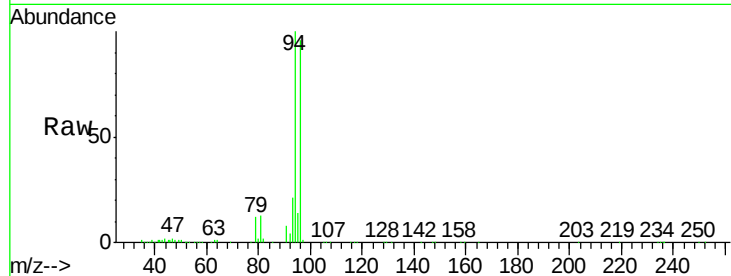
96 96.2 69.7 104.5

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:32:39 AM



#6

Chloroethane

Concen: 43.404 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW013365.D

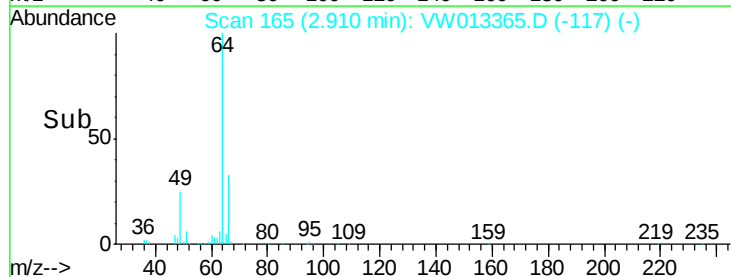
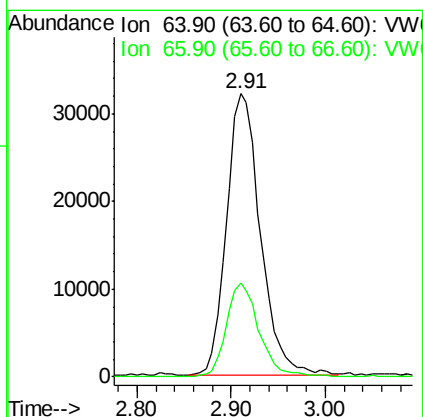
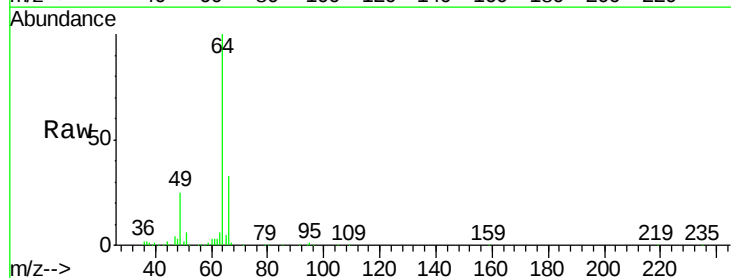
Acq: 01 Oct 2019 06:50

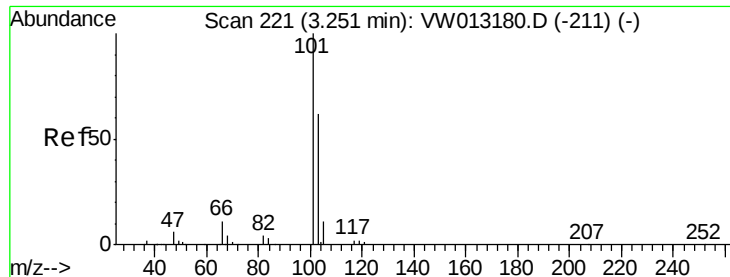
Tgt Ion: 64 Resp: 79615

Ion Ratio Lower Upper

64 100

66 33.5 26.6 39.8





#7

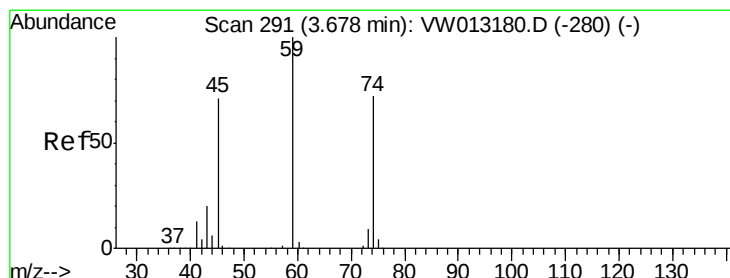
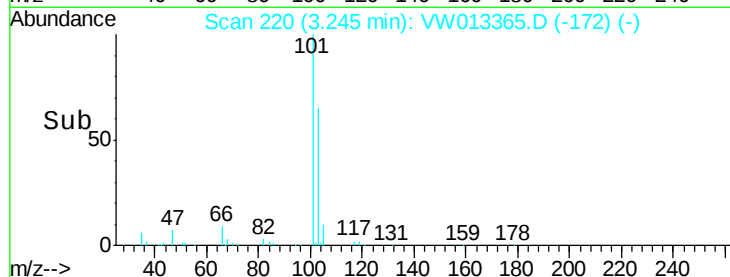
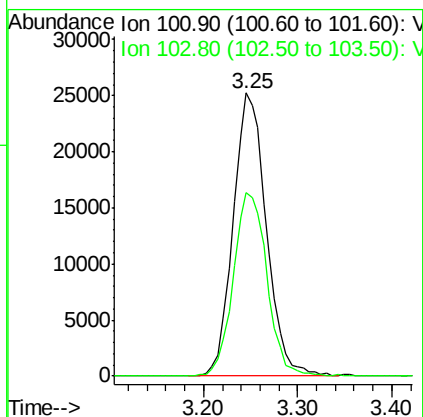
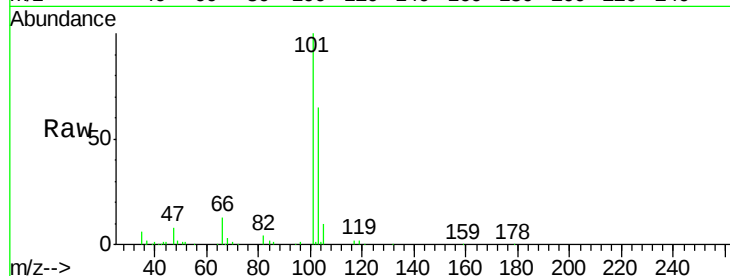
Trichlorofluoromethane
 Concen: 34.515 ug/l
 RT: 3.25 min Scan# 220
 Delta R.T. -0.01 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	49.7	74.5

Manual Integrations
 APPROVED

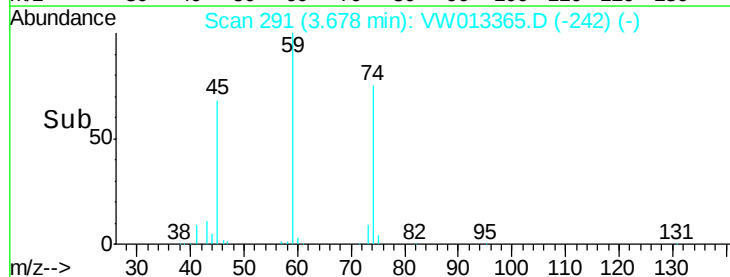
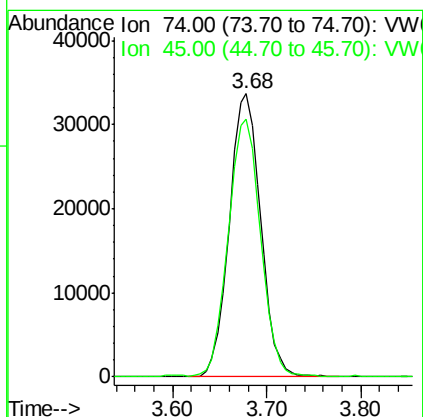
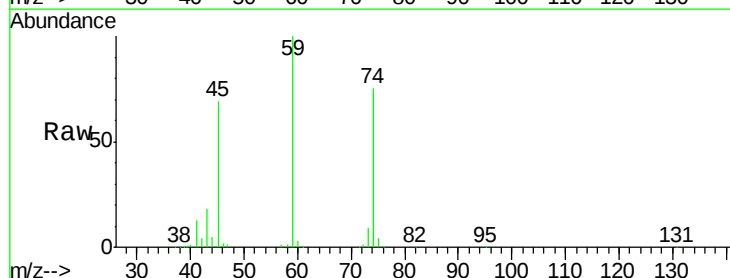
MMDadoda
 10/1/2019 11:32:39 AM

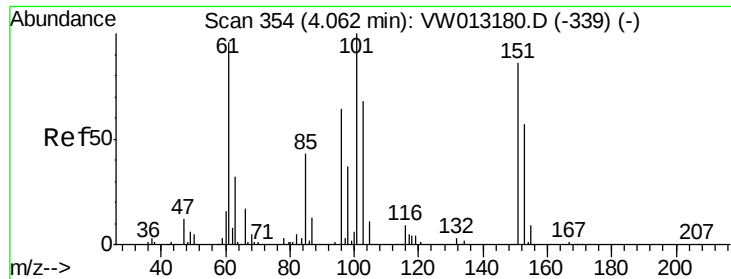


#8

Diethyl Ether
 Concen: 50.882 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. 0.00 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
74	100		
45	93.4	49.5	148.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 46.385 ug/l

RT: 4.06 min Scan# 353

Delta R.T. -0.01 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

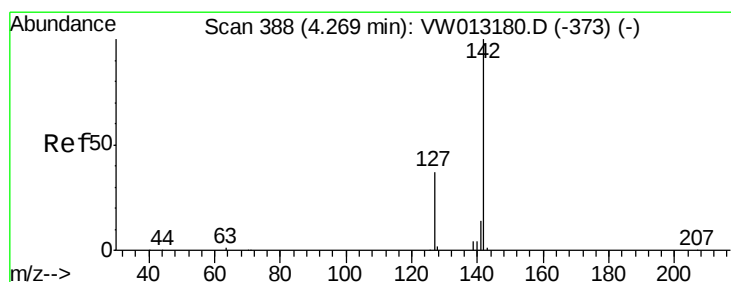
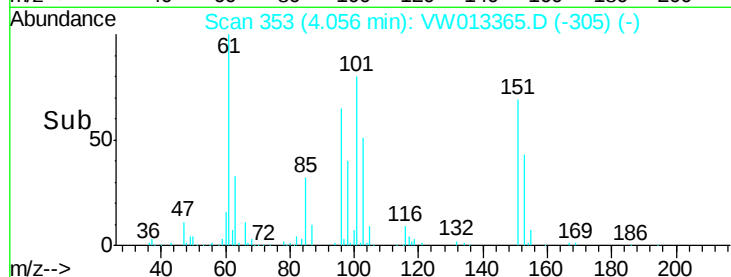
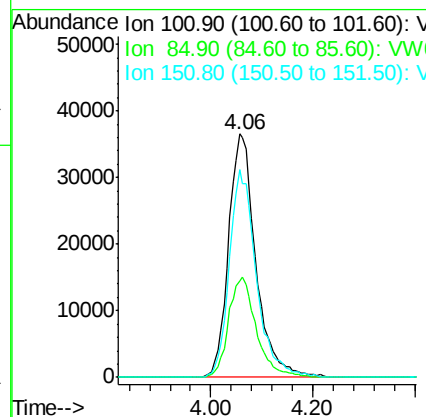
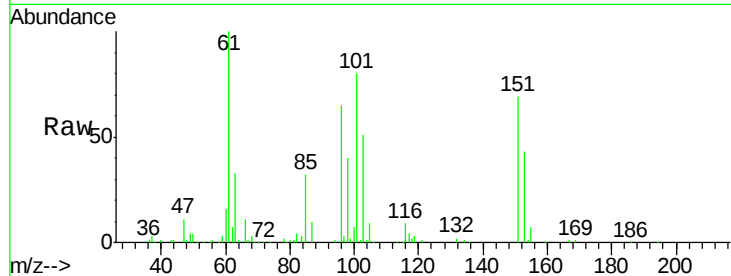
ClientSampleId :

VSTDCCC050EC

Tot Ion:	101	Resp:	135508
Ion Ratio	Lower	Upper	
101	100		
85	41.7	33.4	50.0
151	84.7	66.9	100.3

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:32:39 AM



#10

Methyl Iodide

Concen: 51.933 ug/l

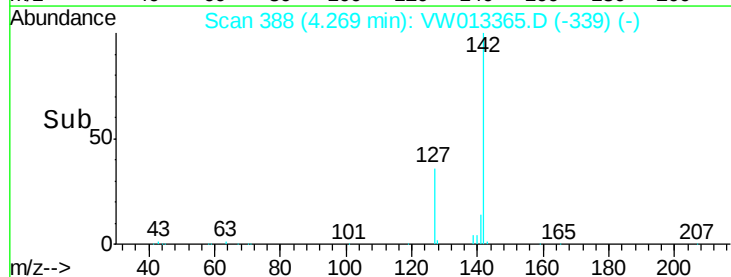
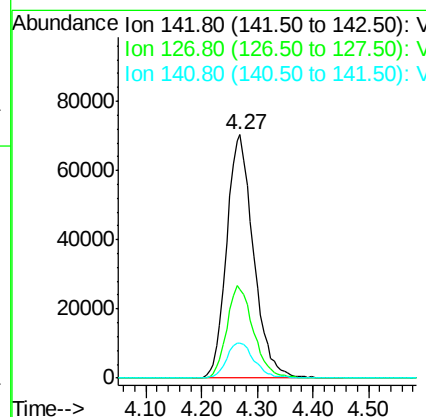
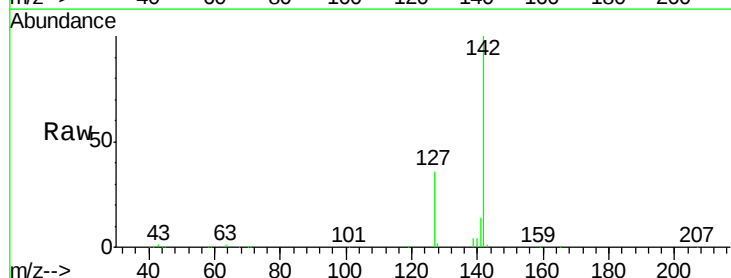
RT: 4.27 min Scan# 388

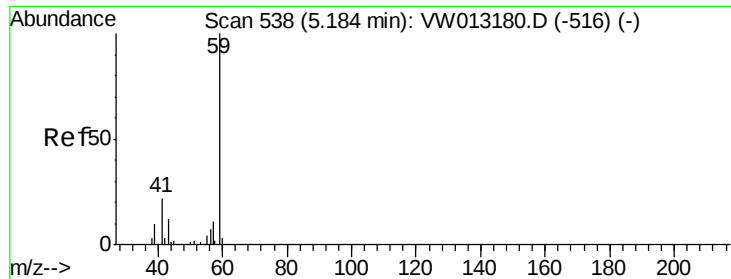
Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Tgt Ion:	142	Resp:	235222
Ion Ratio	Lower	Upper	
142	100		
127	37.5	30.9	46.3
141	14.8	11.7	17.5





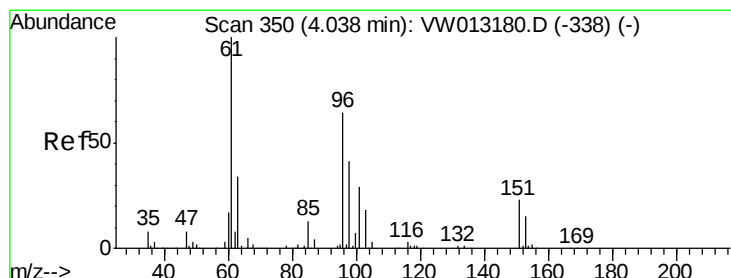
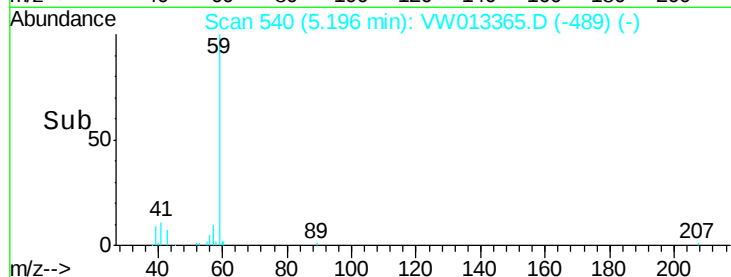
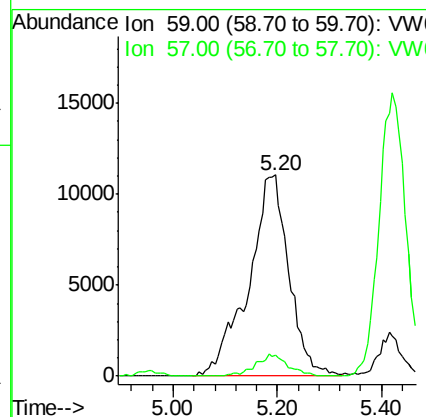
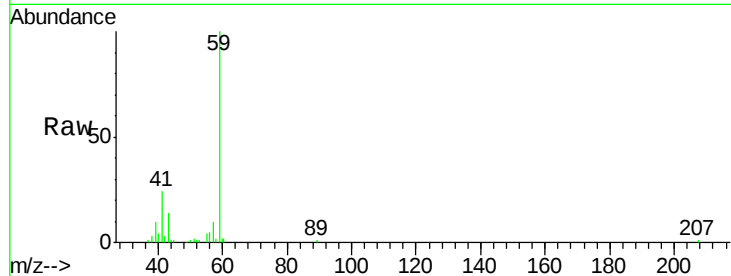
#11
Tert butyl alcohol
Concen: 312.899 ug/l
RT: 5.20 min Scan# 540
Delta R.T. 0.01 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
59	100		
57	8.7	8.2	12.2

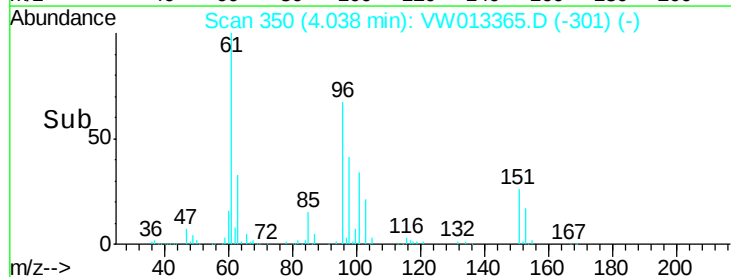
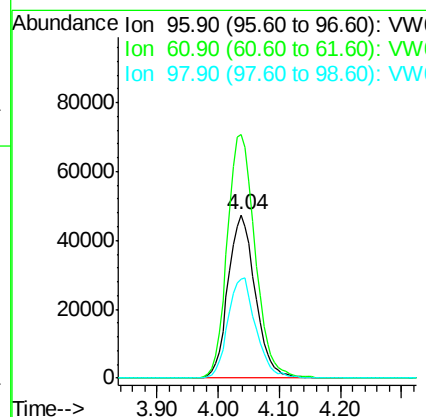
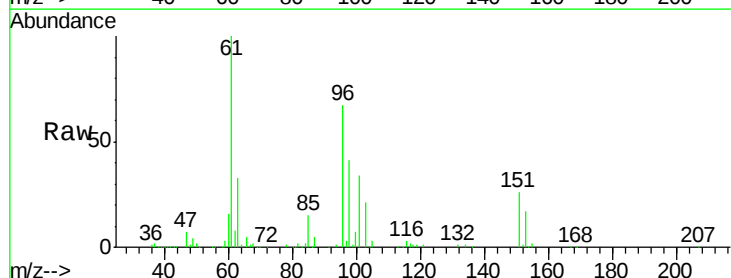
Manual Integrations
APPROVED

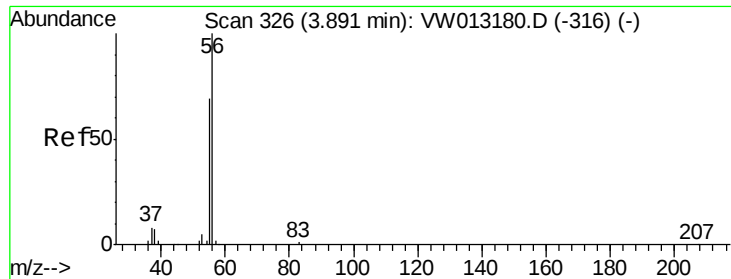
MMDadoda
10/1/2019 11:32:39 AM



#12
1,1-Dichloroethene
Concen: 48.174 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
96	100		
61	149.4	125.1	187.7
98	60.9	50.8	76.2





#13

Acrolein

Concen: 145.863 ug/l

RT: 3.89 min Scan# 326

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 56 Resp: 22308

Ion Ratio Lower Upper

56 100

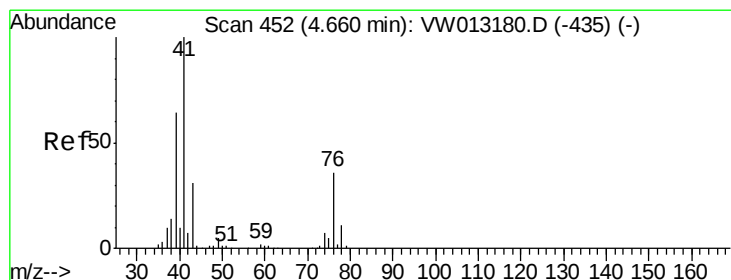
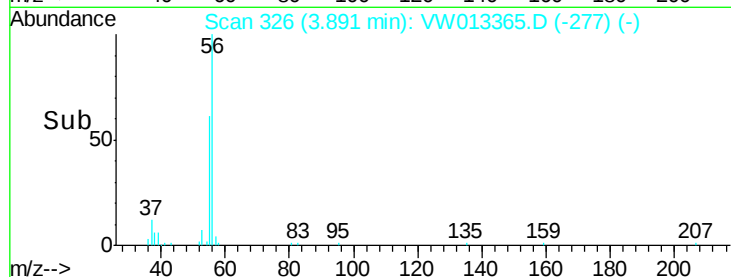
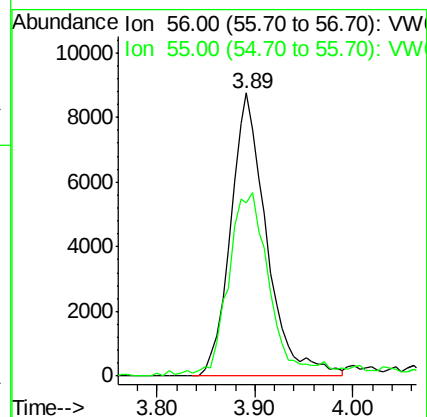
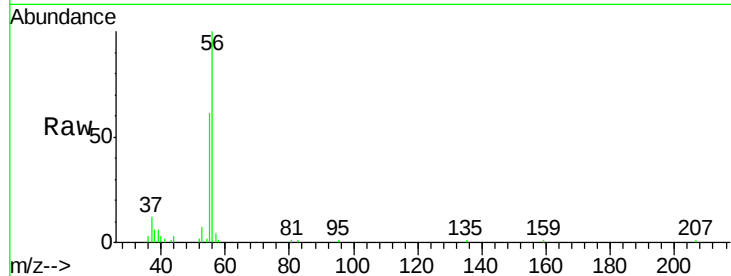
55 72.5 55.4 83.0

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:32:39 AM



#14

Allyl chloride

Concen: 46.174 ug/l

RT: 4.67 min Scan# 453

Delta R.T. 0.01 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

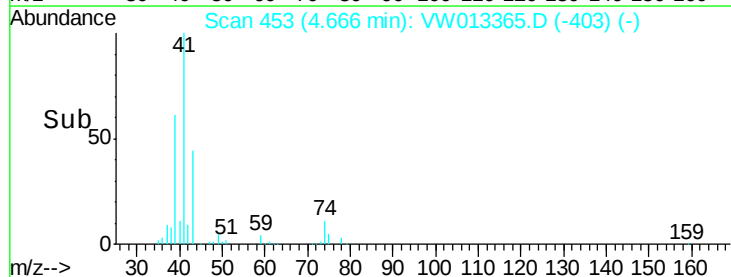
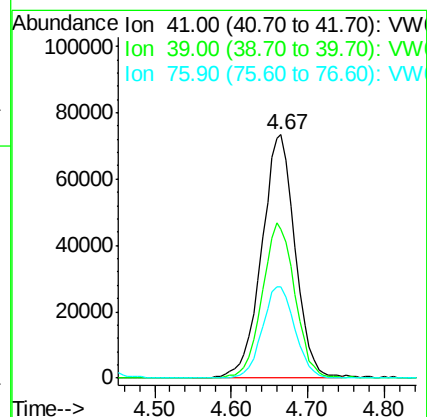
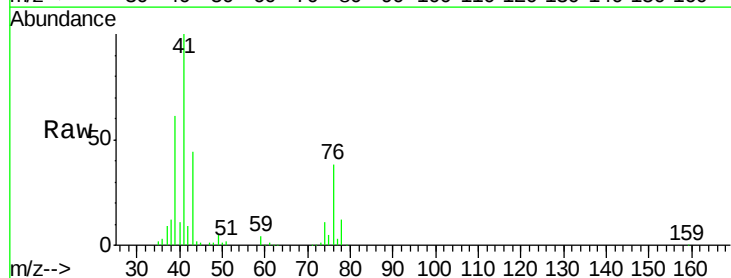
Tgt Ion: 41 Resp: 222309

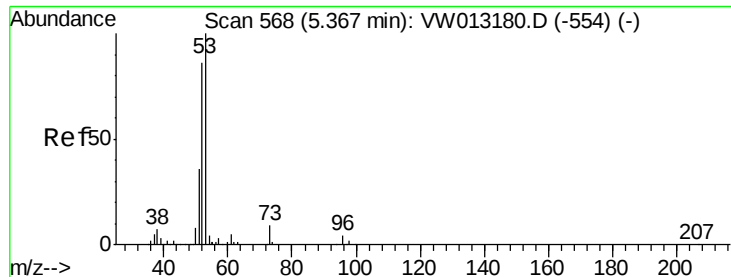
Ion Ratio Lower Upper

41 100

39 62.7 51.0 76.4

76 36.7 28.4 42.6





#15

Acrylonitrile

Concen: 258.820 ug/l

RT: 5.36 min Scan# 567

Delta R.T. -0.01 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

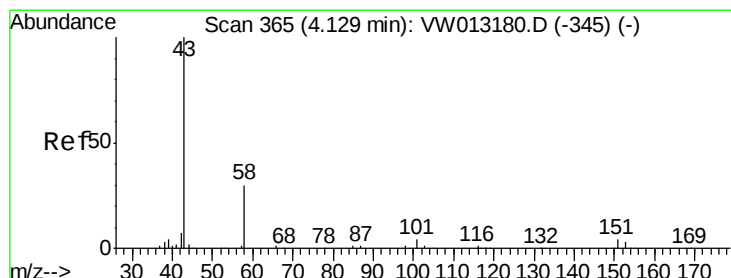
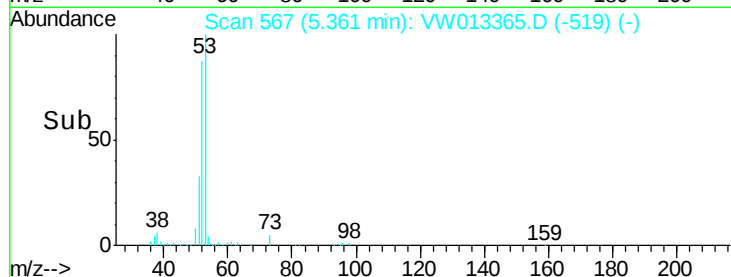
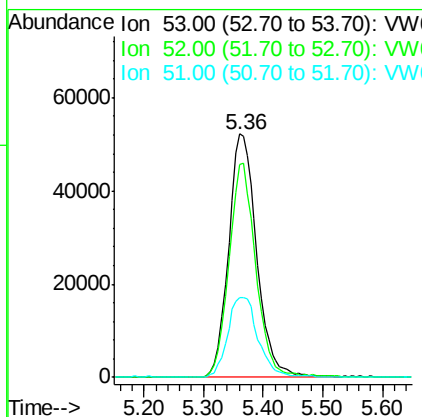
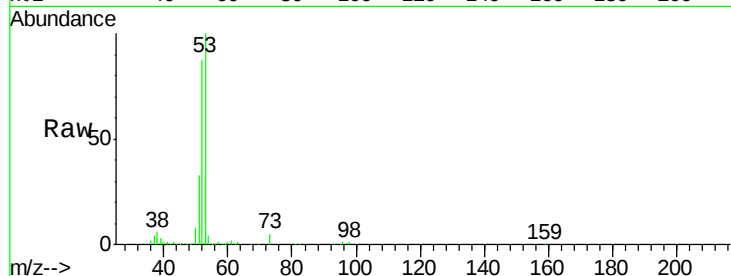
ClientSampleId :

VSTDCCC050EC

Tot Ion:	53	Resp:	171220
Ion Ratio		Lower	Upper
53	100		
52	83.4	65.3	97.9
51	35.9	29.0	43.4

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:32:39 AM



#16

Acetone

Concen: 210.825 ug/l

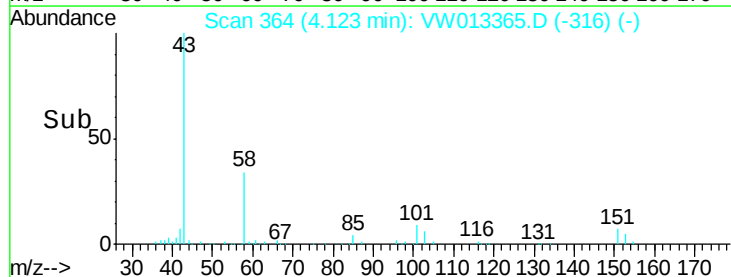
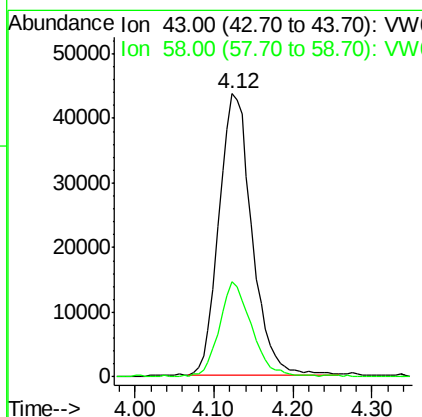
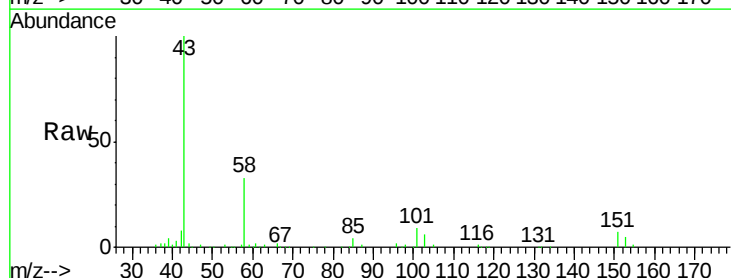
RT: 4.12 min Scan# 364

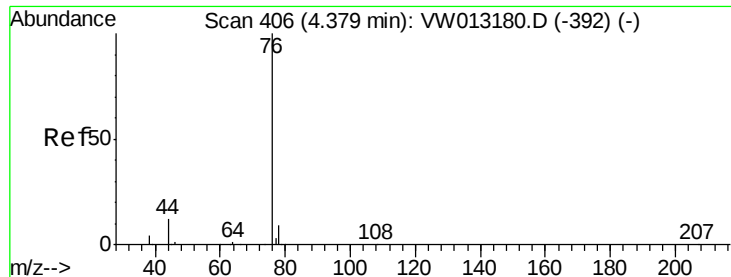
Delta R.T. -0.01 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Tgt Ion:	43	Resp:	126312
Ion Ratio		Lower	Upper
43	100		
58	33.3	24.1	36.1





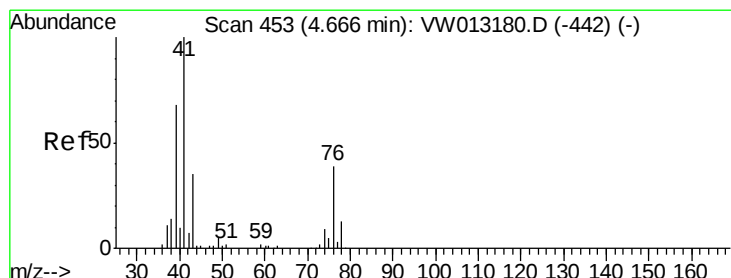
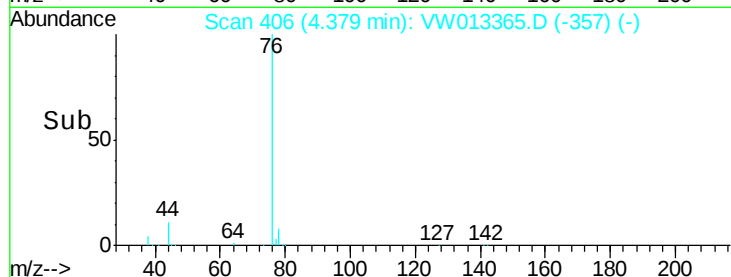
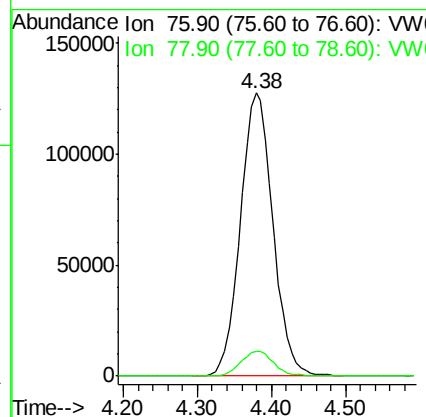
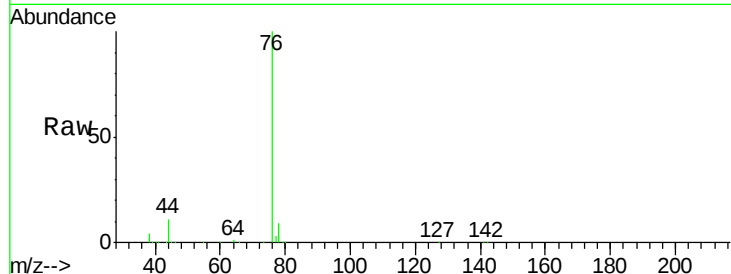
#17
Carbon Disulfide
Concen: 44.698 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.0	10.4

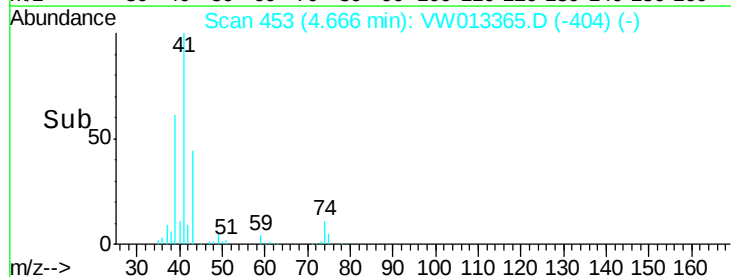
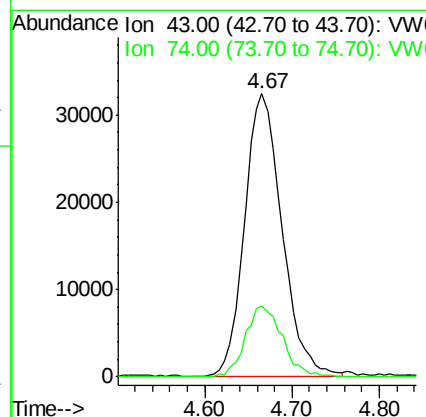
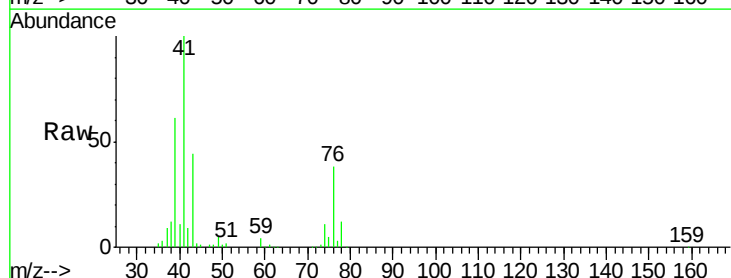
Manual Integrations
APPROVED

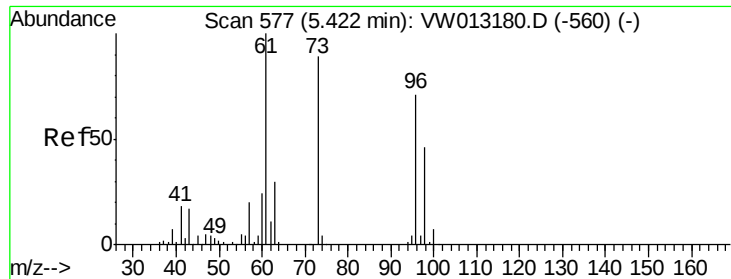
MMDadoda
10/1/2019 11:32:39 AM



#18
Methyl Acetate
Concen: 57.236 ug/l
RT: 4.67 min Scan# 453
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.8	19.3	28.9





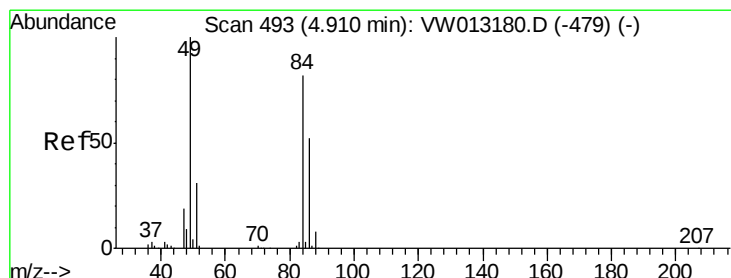
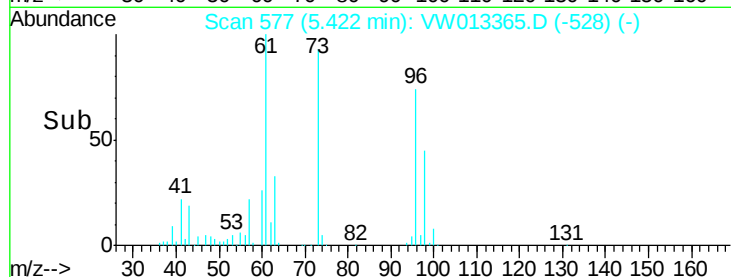
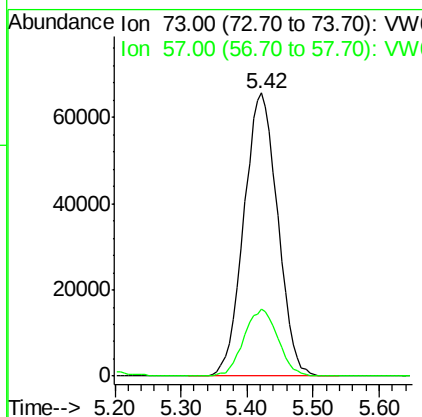
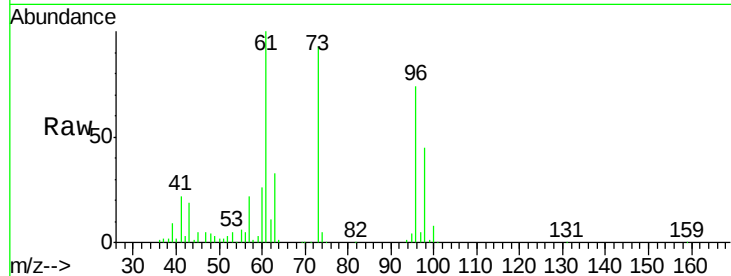
#19
Methyl tert-butyl Ether
Concen: 50.328 ug/l
RT: 5.42 min Scan# 577
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion: 73 Resp: 233342
Ion Ratio Lower Upper
73 100
57 23.7 17.6 26.4

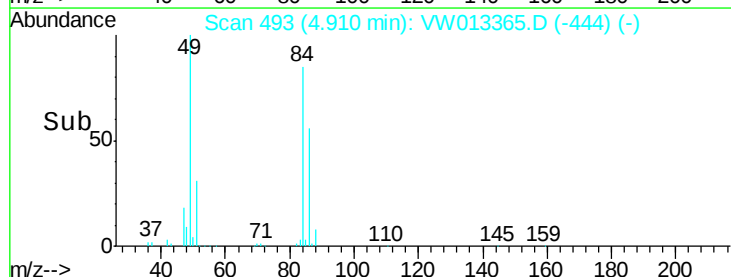
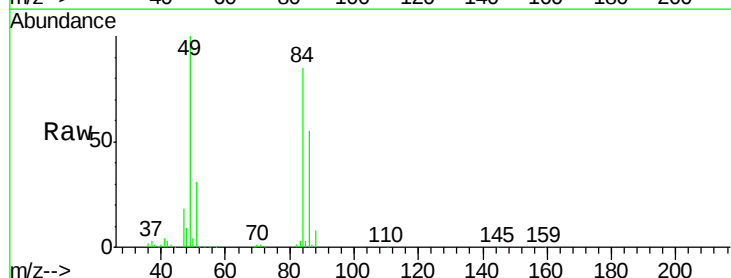
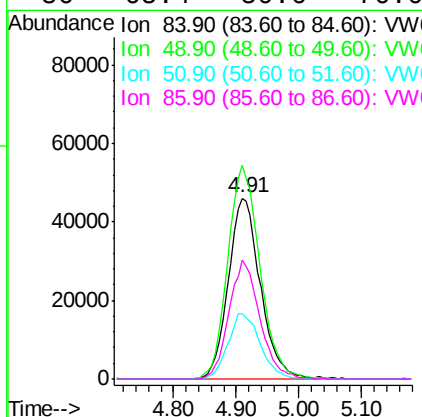
Manual Integrations
APPROVED

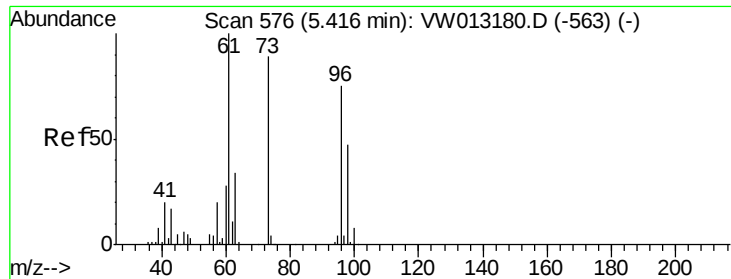
MMDadoda
10/1/2019 11:32:39 AM



#20
Methylene Chloride
Concen: 53.273 ug/l
RT: 4.91 min Scan# 493
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion: 84 Resp: 162653
Ion Ratio Lower Upper
84 100
49 118.0 97.6 146.4
51 36.0 30.2 45.2
86 65.4 50.6 76.0





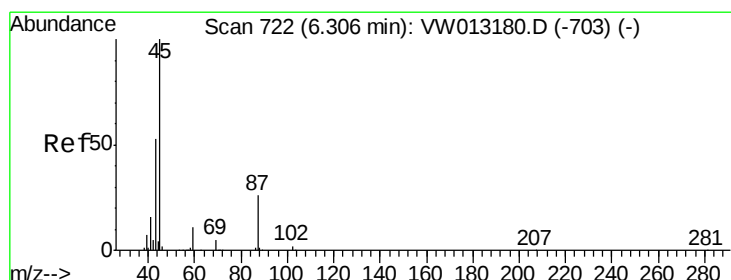
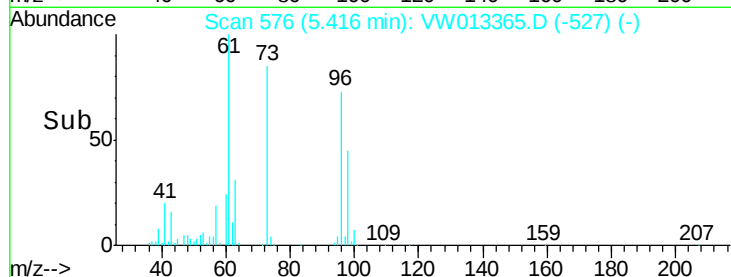
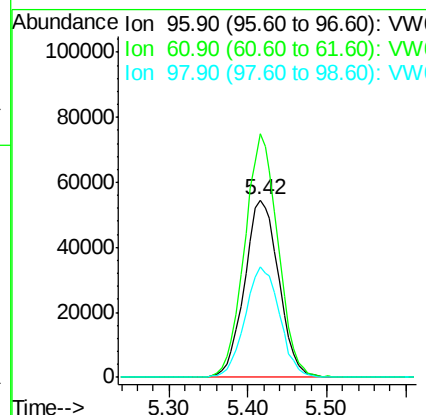
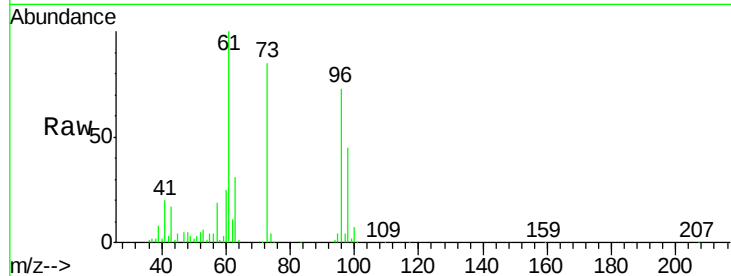
#21
trans-1,2-Dichloroethene
Concen: 50.332 ug/l
RT: 5.42 min Scan# 576
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	137.0	106.6	159.8
98	61.9	49.8	74.8

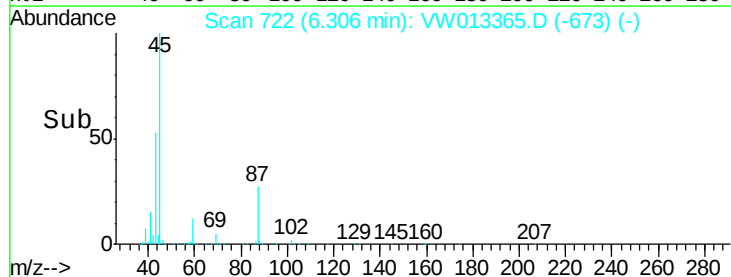
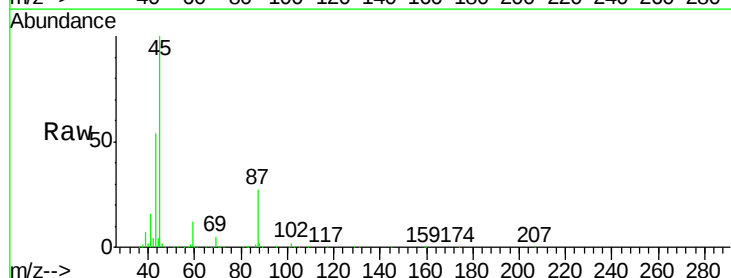
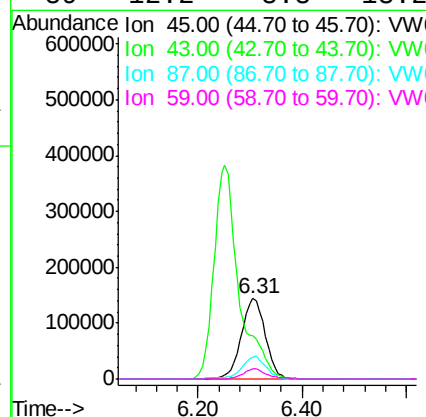
Manual Integrations
APPROVED

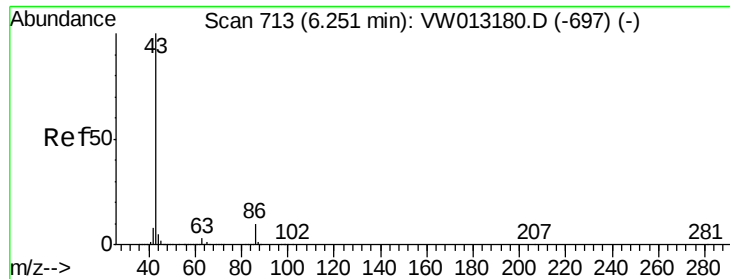
MMDadoda
10/1/2019 11:32:39 AM



#22
Diisopropyl ether
Concen: 50.202 ug/l
RT: 6.31 min Scan# 722
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
45	100		
43	53.3	42.4	63.6
87	27.2	20.4	30.6
59	12.2	8.8	13.2





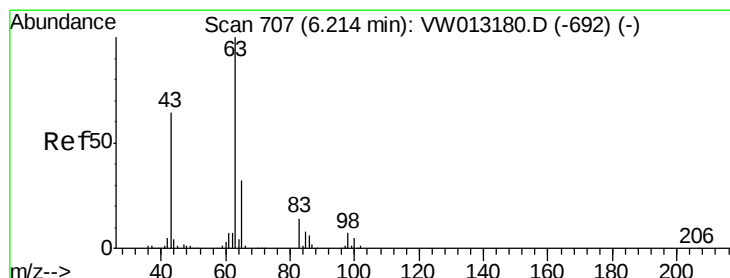
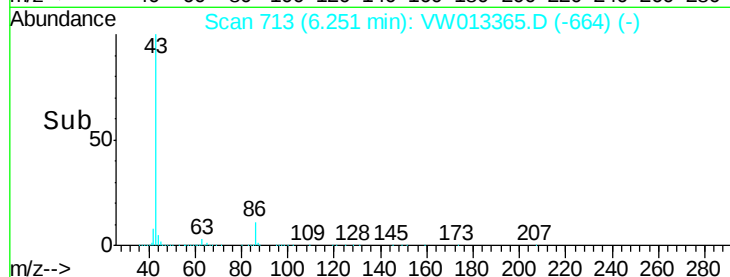
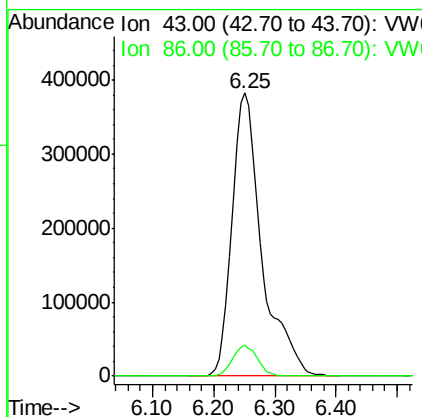
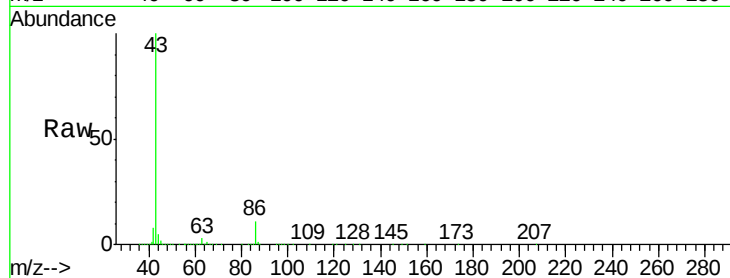
#23
 Vinyl Acetate
 Concen: 236.284 ug/l
 RT: 6.25 min Scan# 713
 Delta R.T. 0.00 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 43 Resp: 1283360
 Ion Ratio Lower Upper
 43 100
 86 11.0 8.3 12.5

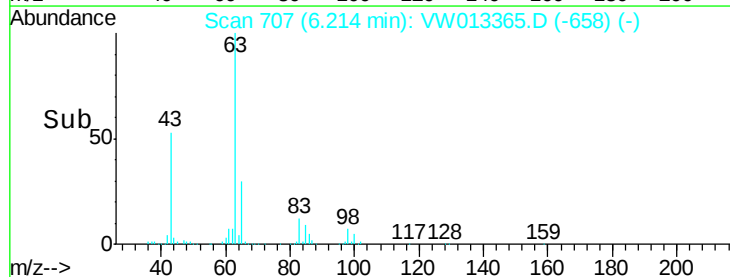
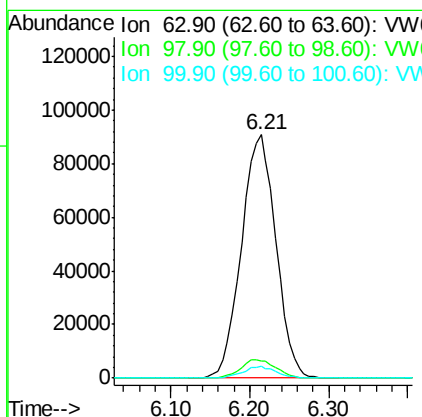
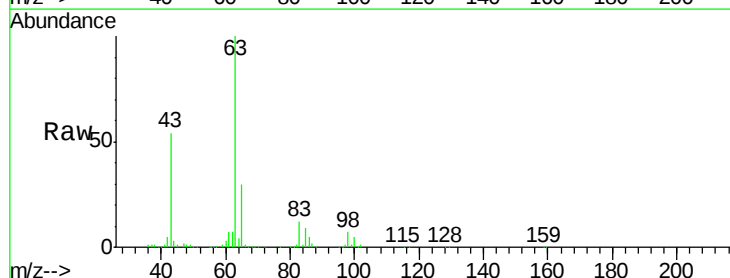
Manual Integrations
 APPROVED

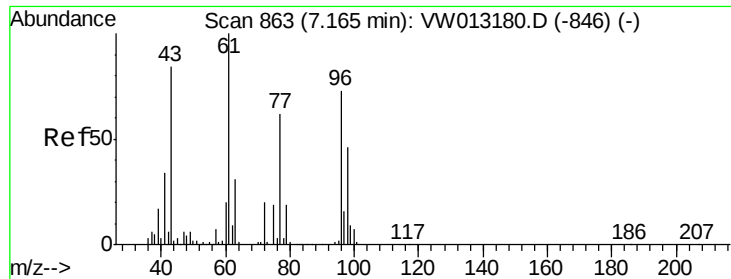
MMDadoda
 10/1/2019 11:32:39 AM



#24
 1,1-Dichloroethane
 Concen: 49.914 ug/l
 RT: 6.21 min Scan# 707
 Delta R.T. 0.00 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Tgt Ion: 63 Resp: 275754
 Ion Ratio Lower Upper
 63 100
 98 7.2 3.5 10.5
 100 4.8 2.4 7.1





#25

2-Butanone

Concen: 238.135 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 43 Resp: 214178

Ion Ratio Lower Upper

43 100

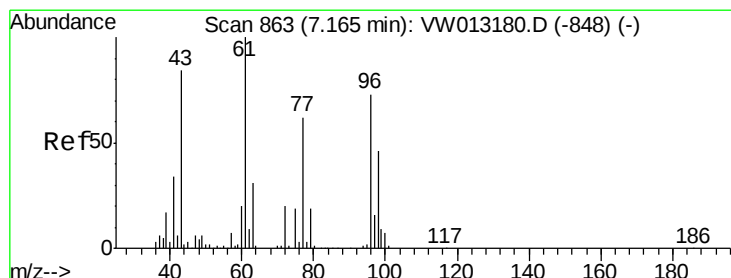
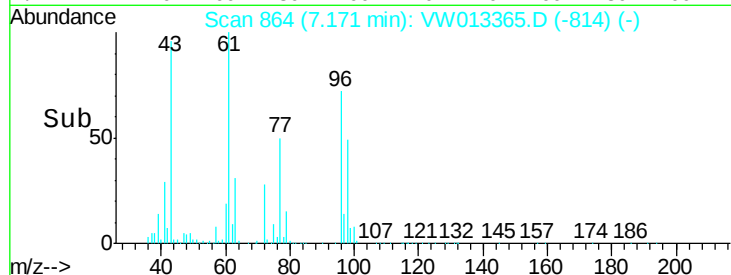
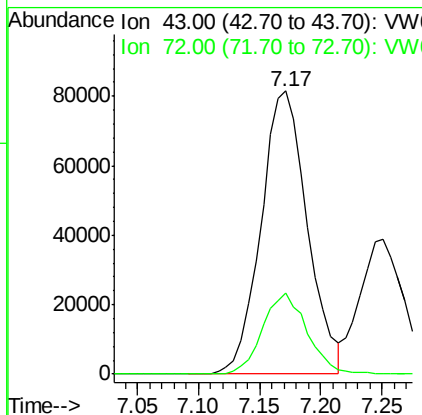
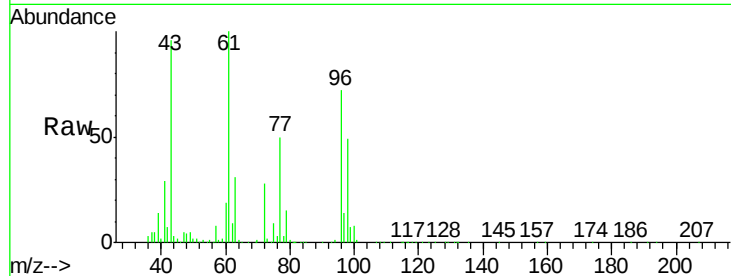
72 28.7 19.4 29.0

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:32:39 AM



#26

2,2-Dichloropropane

Concen: 41.006 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW013365.D

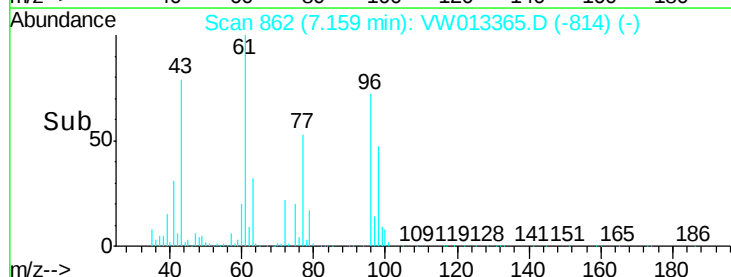
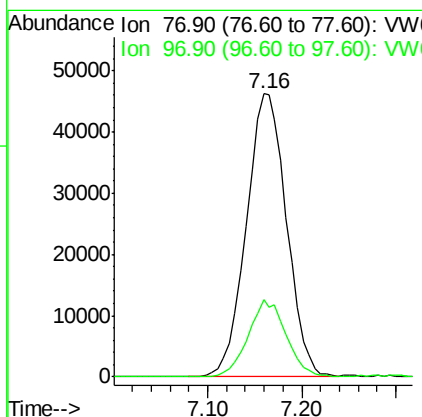
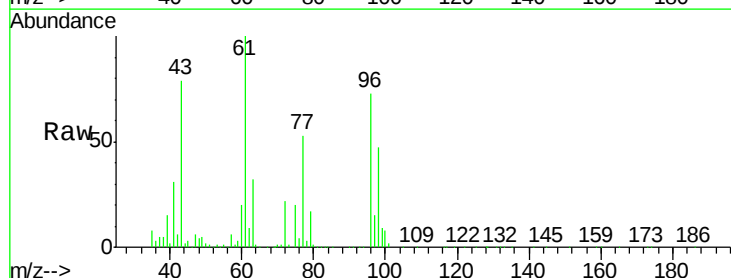
Acq: 01 Oct 2019 06:50

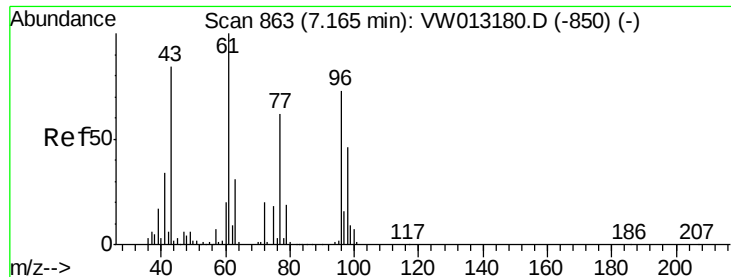
Tgt Ion: 77 Resp: 137527

Ion Ratio Lower Upper

77 100

97 26.0 11.8 35.4





#27

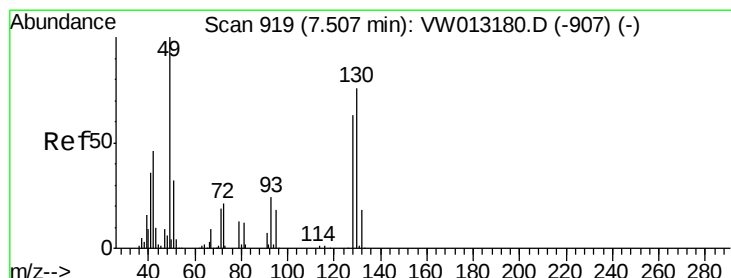
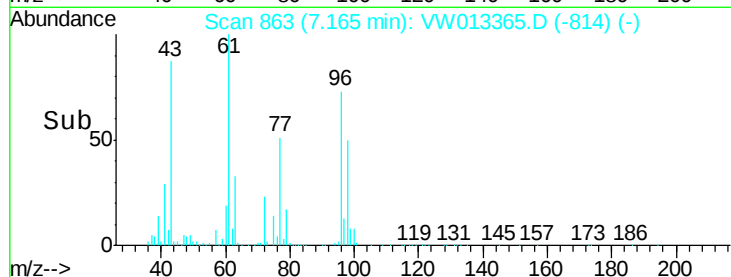
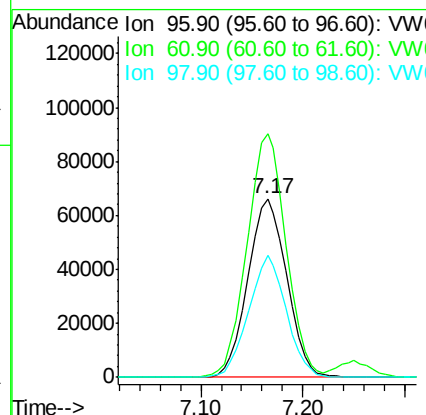
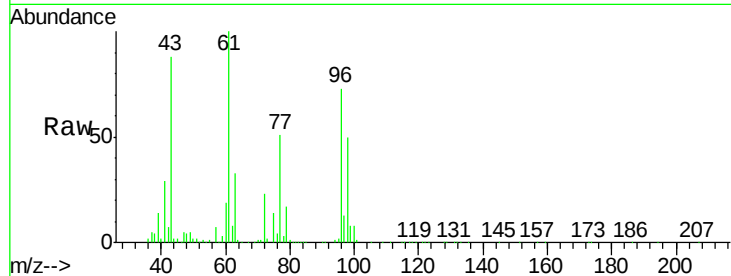
cis-1,2-Dichloroethene
Concen: 50.732 ug/l
RT: 7.17 min Scan# 863
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	136.7	0.0	282.4
98	66.3	0.0	128.2

Manual Integrations
APPROVED

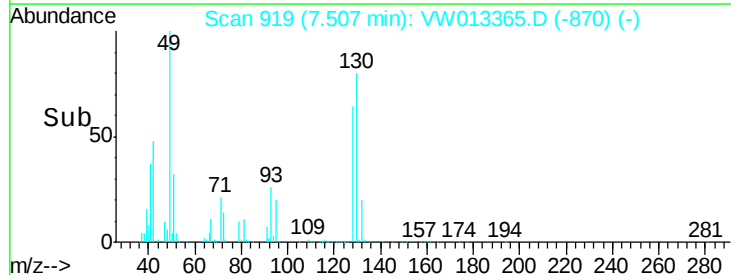
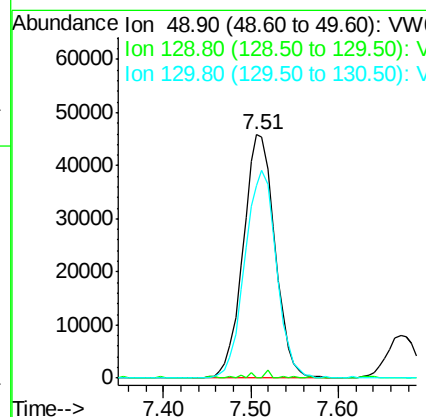
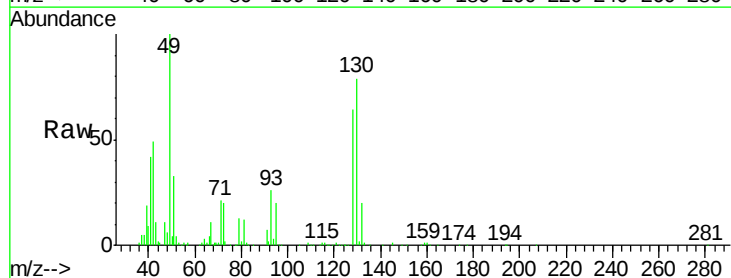
MMDadoda
10/1/2019 11:32:39 AM

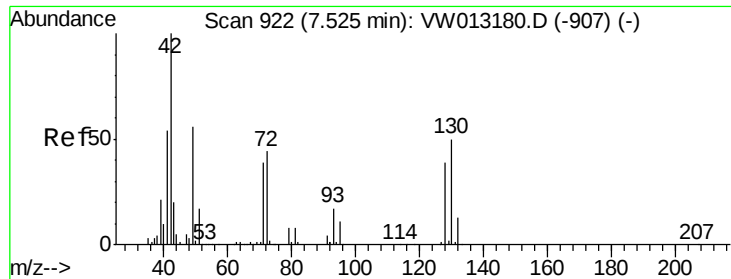


#28

Bromochloromethane
Concen: 54.342 ug/l
RT: 7.51 min Scan# 919
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.5	0.0	1.0
130	85.4	63.4	95.2





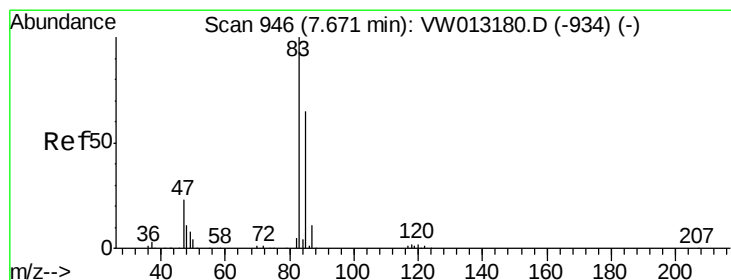
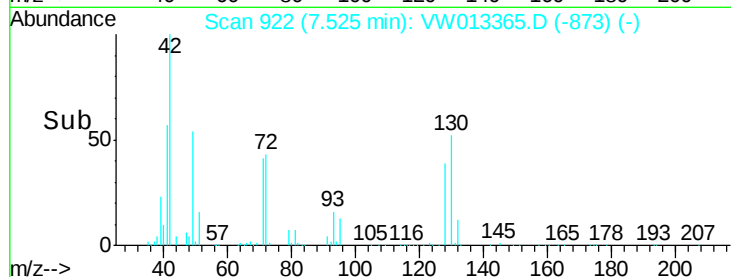
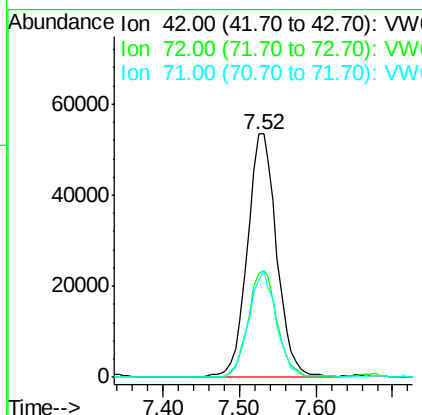
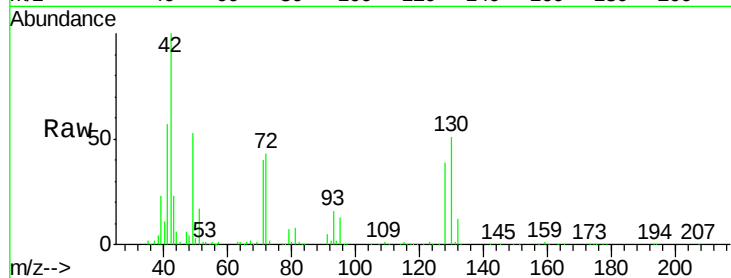
#29
Tetrahydrofuran
Concen: 258.748 ug/l
RT: 7.52 min Scan# 922
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampled :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.6	33.9	50.9
71	41.6	31.9	47.9

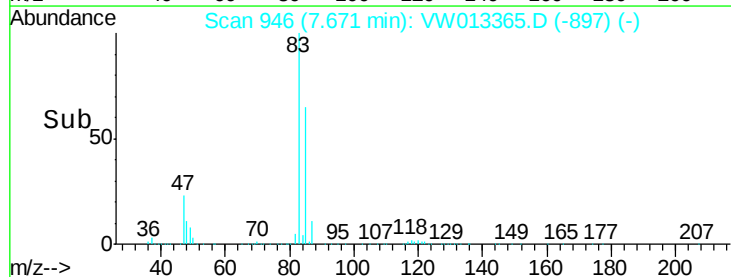
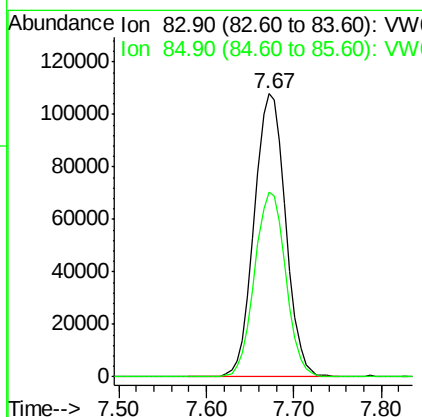
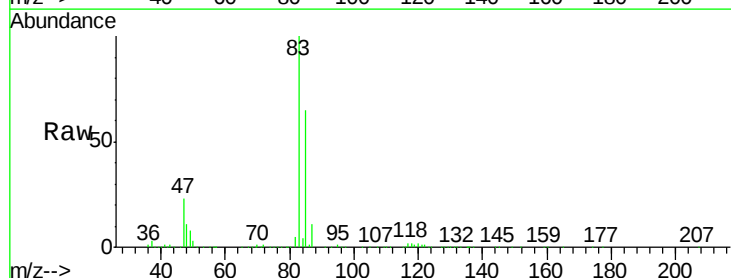
Manual Integrations
APPROVED

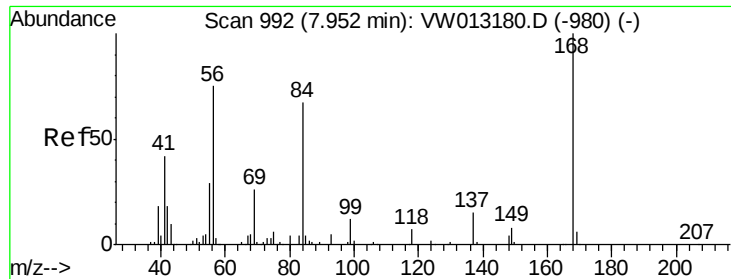
MMDadoda
10/1/2019 11:32:39 AM



#30
Chloroform
Concen: 49.662 ug/l
RT: 7.67 min Scan# 946
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.3	52.3	78.5





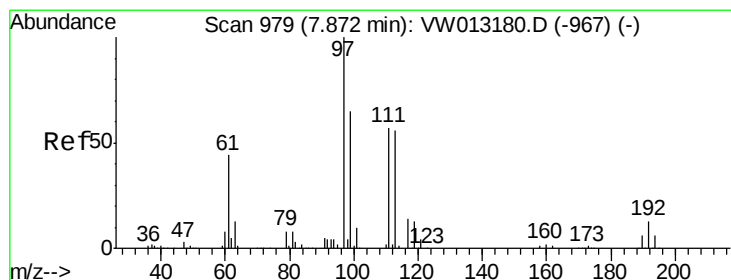
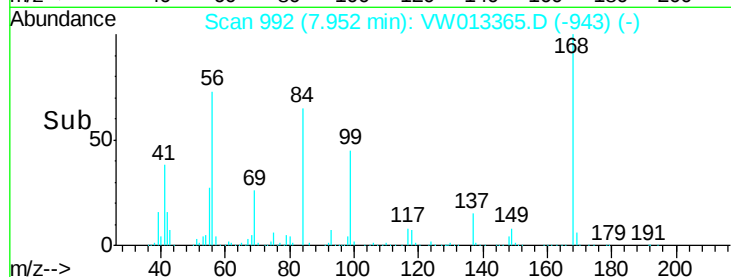
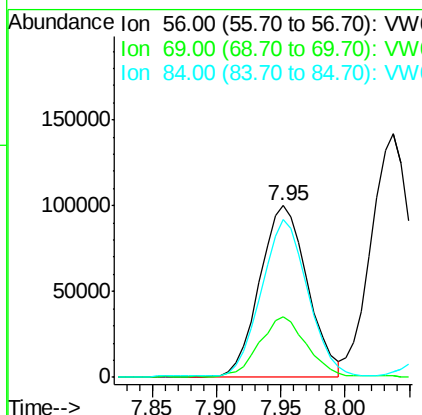
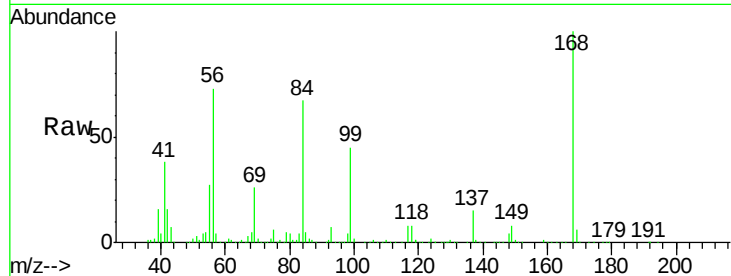
#31
Cyclohexane
Concen: 44.832 ug/l
RT: 7.95 min Scan# 992
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
56	100		258179		
69	34.9	27.2	40.8		
84	90.5	70.8	106.2		

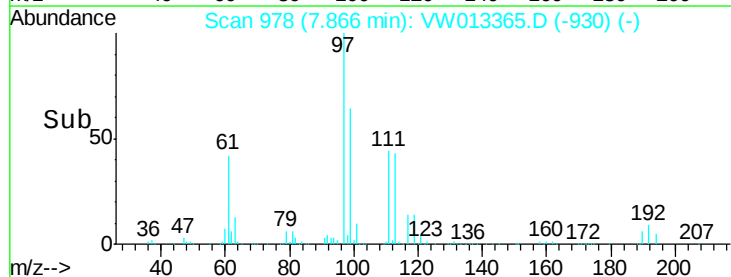
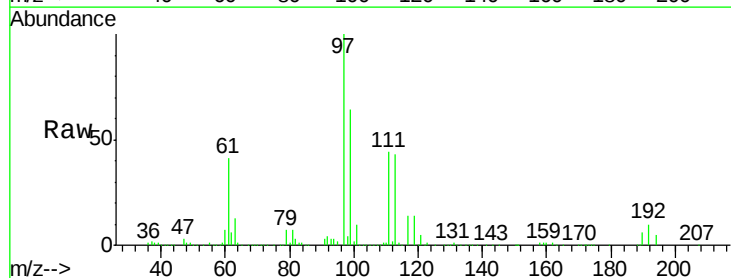
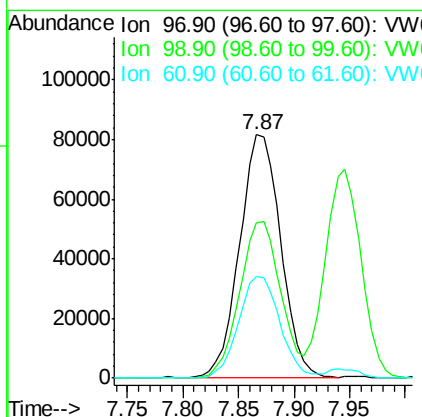
Manual Integrations
APPROVED

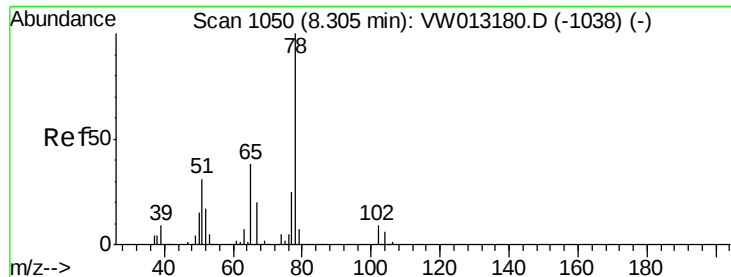
MMDadoda
10/1/2019 11:32:39 AM



#32
1,1,1-Trichloroethane
Concen: 48.070 ug/l
RT: 7.87 min Scan# 978
Delta R.T. -0.01 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
97	100		210581		
99	64.5	51.7	77.5		
61	42.0	34.6	51.8		





#33

1,2-Dichloroethane-d4

Concen: 49.607 ug/l

RT: 8.31 min Scan# 1050

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 65 Resp: 131796

Ion Ratio Lower Upper

65 100

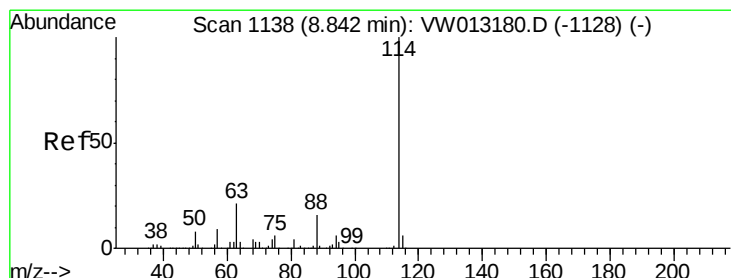
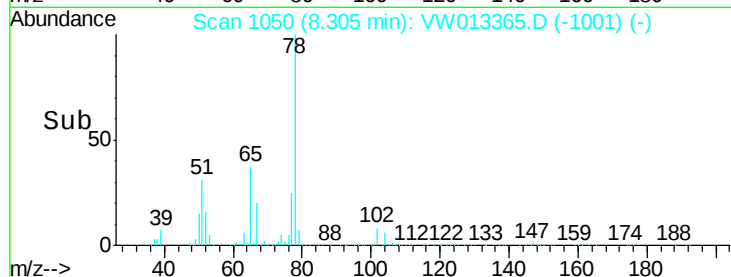
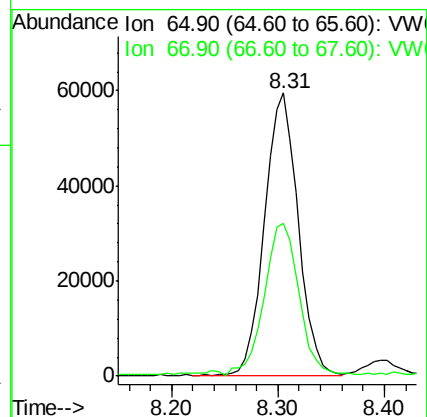
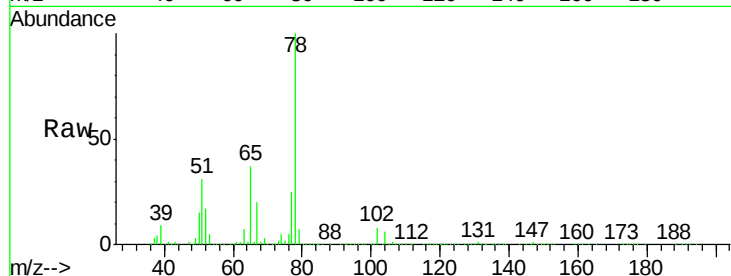
67 56.5 0.0 106.2

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:32:39 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 8.84 min Scan# 1138

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

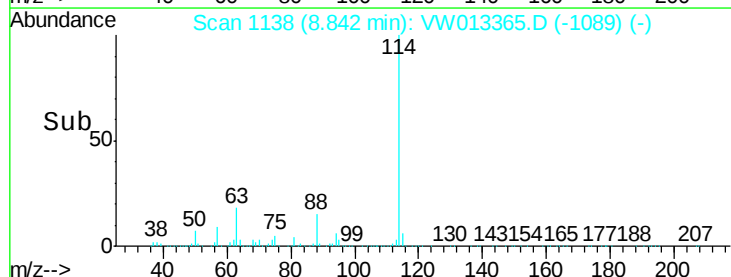
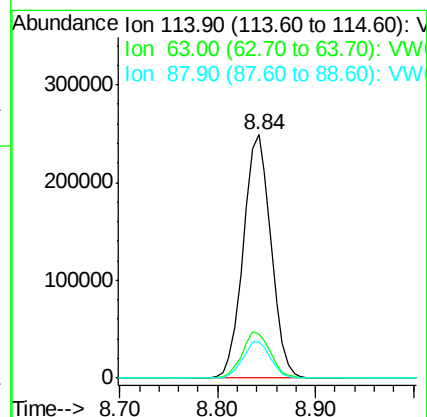
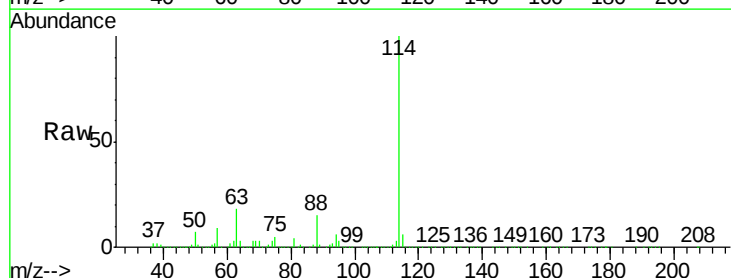
Tgt Ion: 114 Resp: 488497

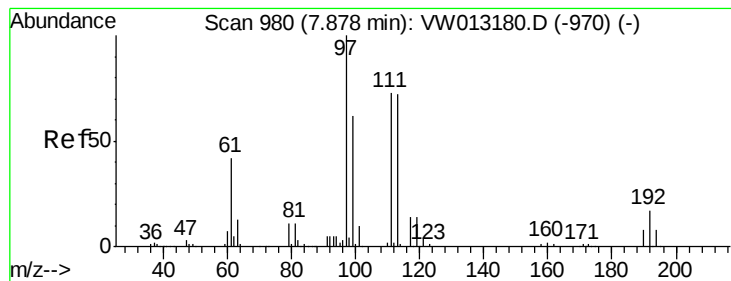
Ion Ratio Lower Upper

114 100

63 17.9 0.0 41.4

88 14.7 0.0 32.0





#35

Dibromofluoromethane

Concen: 50.964 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

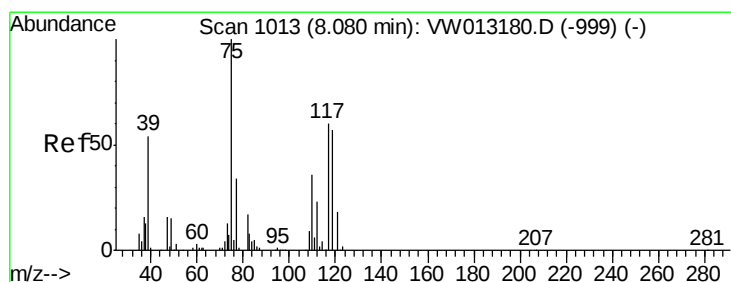
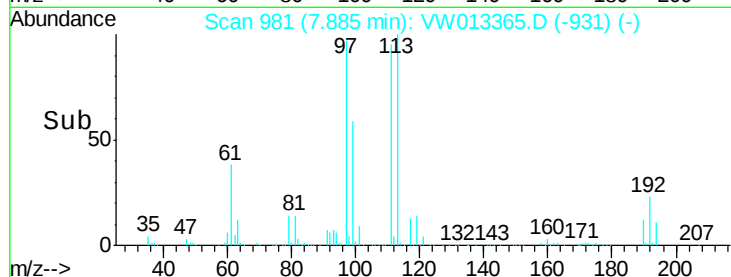
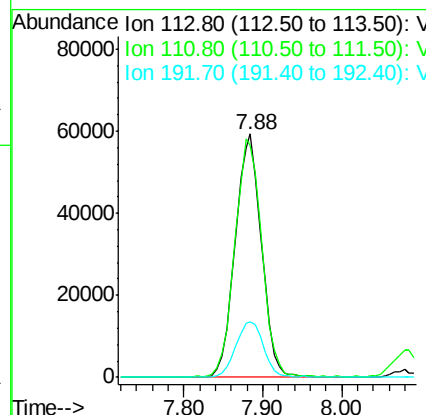
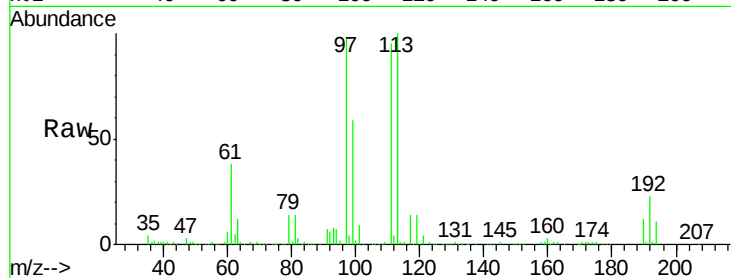
ClientSampleId :

VSTDCCC050EC

Tot Ion:	113	Resp:	136926
Ion Ratio	Lower	Upper	
113	100		
111	100.4	81.9	122.9
192	24.2	19.1	28.7

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:32:39 AM



#36

1,1-Dichloropropene

Concen: 46.768 ug/l

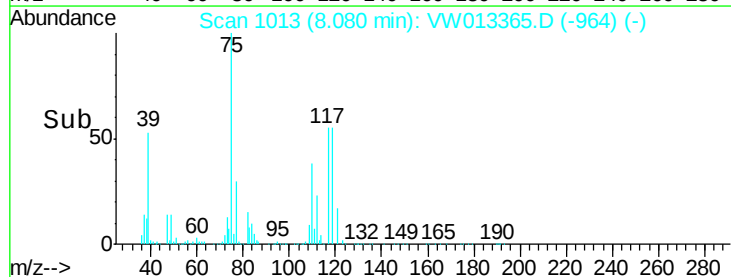
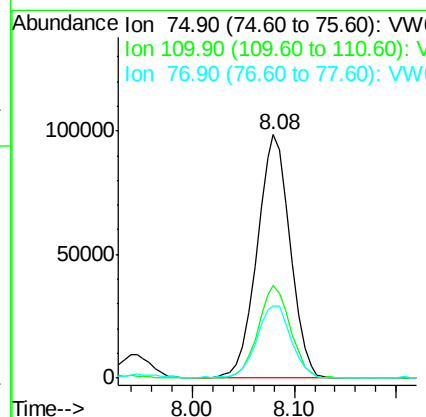
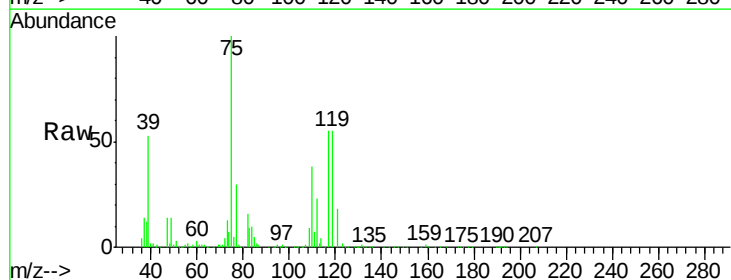
RT: 8.08 min Scan# 1013

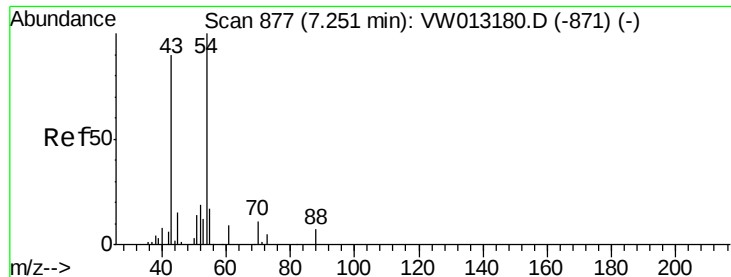
Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Tgt Ion:	75	Resp:	221279
Ion Ratio	Lower	Upper	
75	100		
110	37.1	18.1	54.3
77	30.7	25.8	38.6





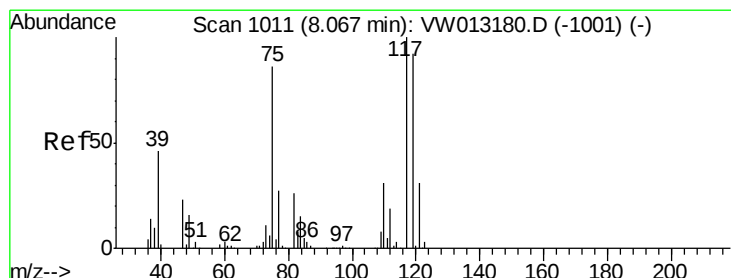
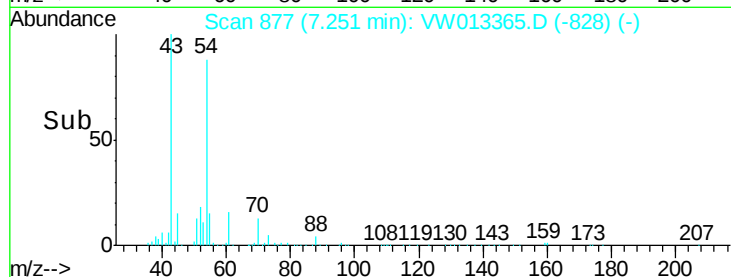
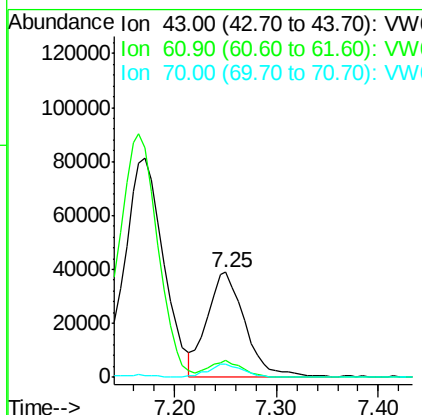
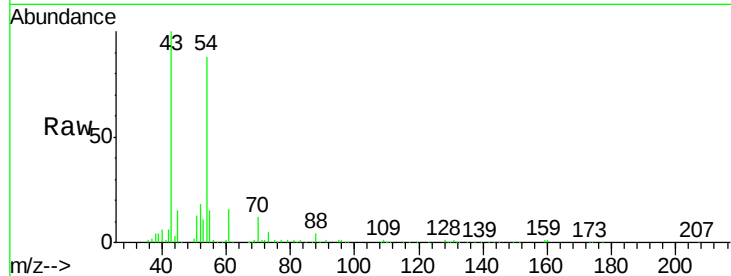
#37
Ethyl Acetate
Concen: 49.391 ug/l
RT: 7.25 min Scan# 877
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.1	10.9	16.3
70	11.9	8.2	12.2

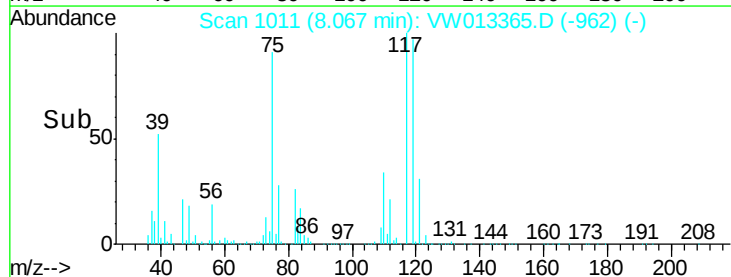
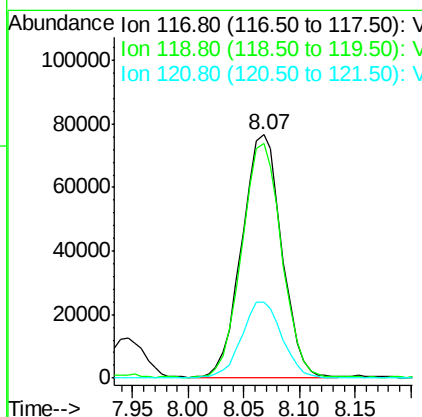
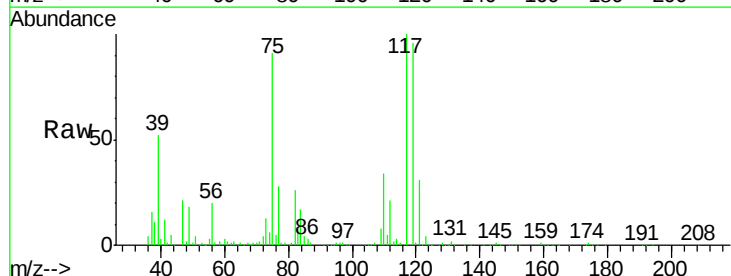
Manual Integrations
APPROVED

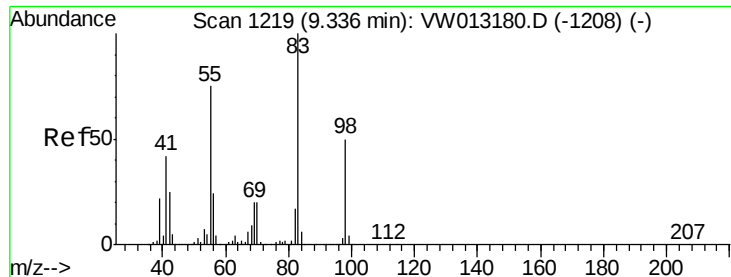
MMDadoda
10/1/2019 11:32:39 AM



#38
Carbon Tetrachloride
Concen: 44.790 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.4	73.5	110.3
121	31.1	25.0	37.6





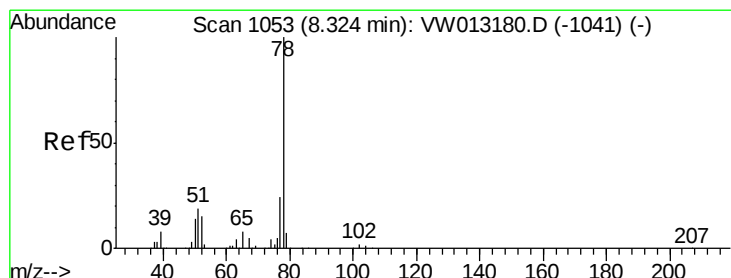
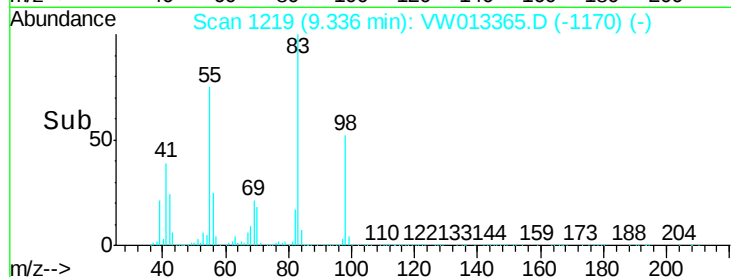
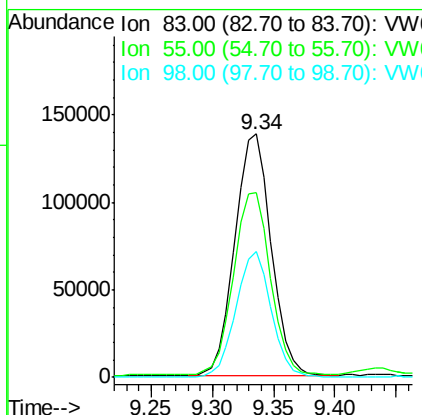
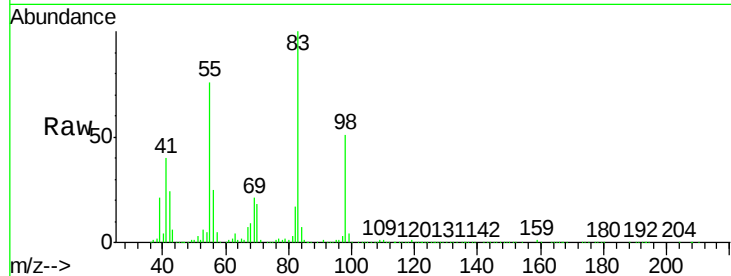
#39
Methvlcvclohexane
Concen: 47.084 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
83	100	286293		
55	75.1		60.4	90.6
98	51.5		40.0	60.0

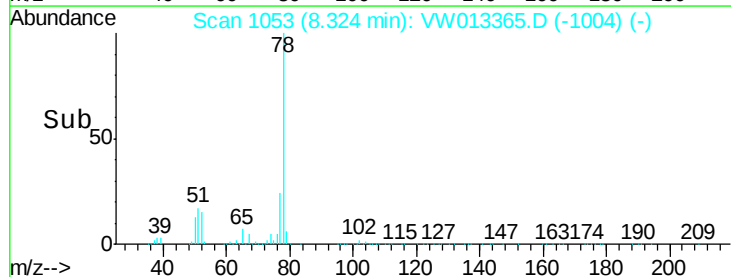
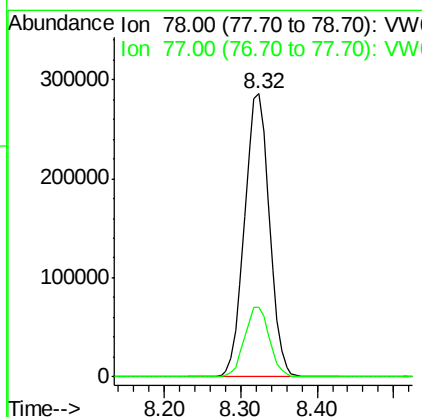
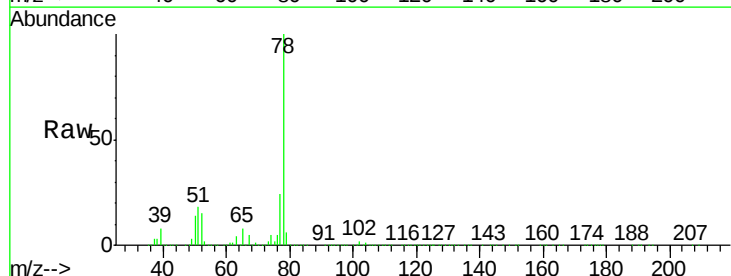
Manual Integrations
APPROVED

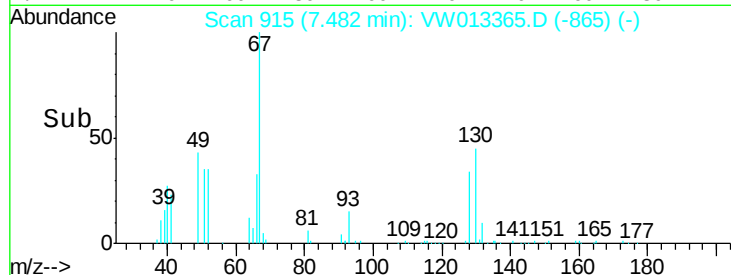
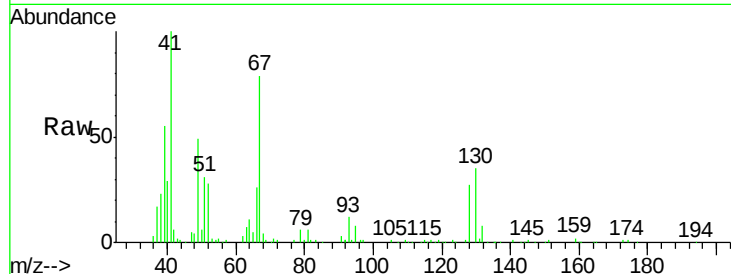
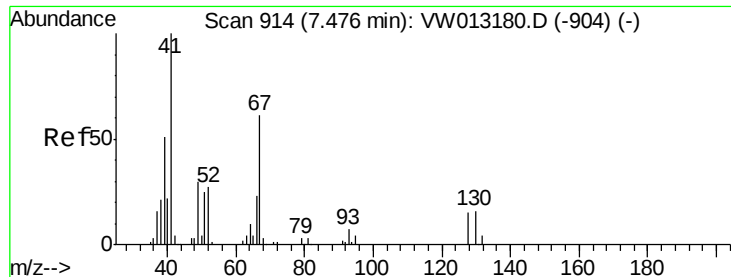
MMDadoda
10/1/2019 11:32:39 AM



#40
Benzene
Concen: 48.983 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	646447		
77	24.4		19.1	28.7





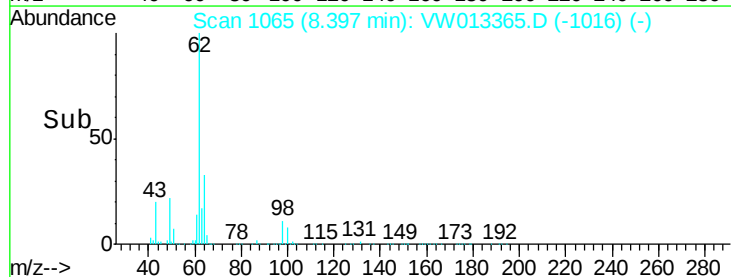
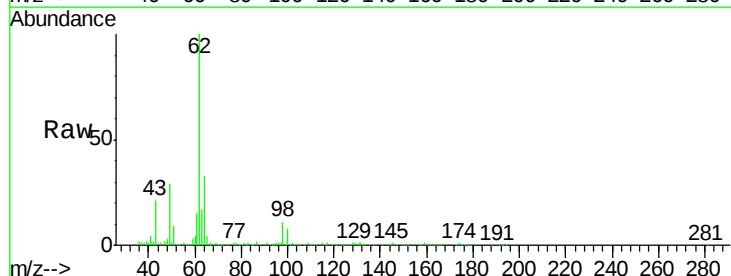
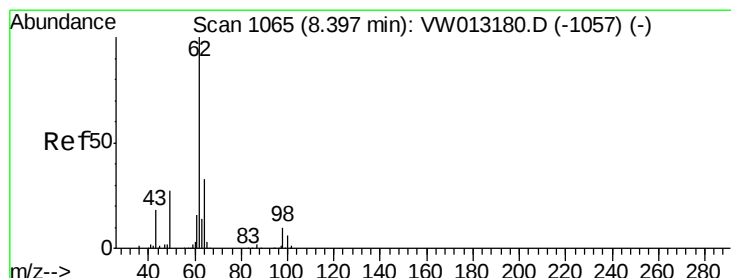
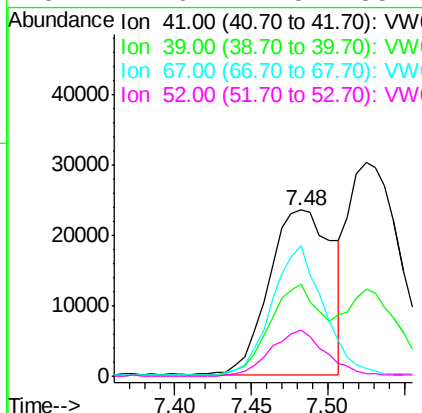
#41
Methacrylonitrile
Concen: 56.484 ug/l
RT: 7.48 min Scan# 915
Delta R.T. 0.01 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tot Ion	41	Resp	67789
Ion	Ratio	Lower	Upper
41	100		
39	44.8	45.9	68.9#
67	63.0	54.5	81.7
52	24.6	22.5	33.7

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

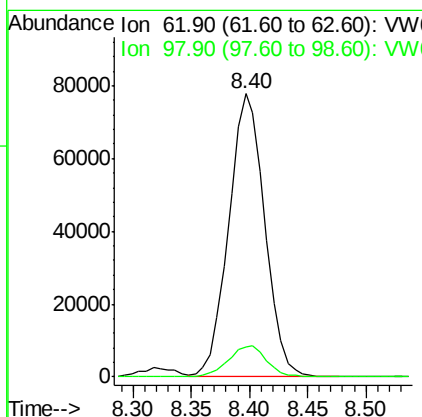
Manual Integrations
APPROVED

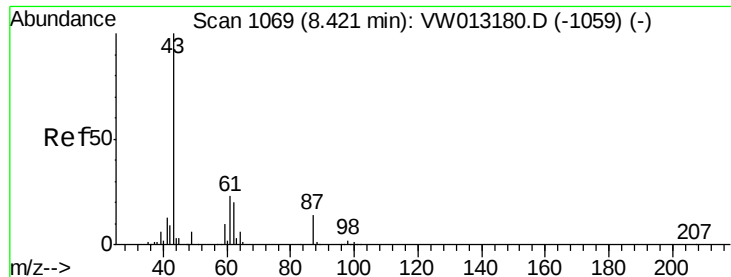
MMDadoda
10/1/2019 11:32:39 AM



#42
1,2-Dichloroethane
Concen: 46.959 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	62	Resp	166598
Ion	Ratio	Lower	Upper
62	100		
98	11.8	0.0	20.6





#43

Isopropyl Acetate

Concen: 48.366 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

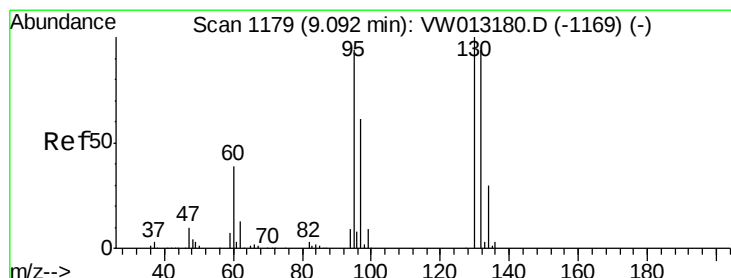
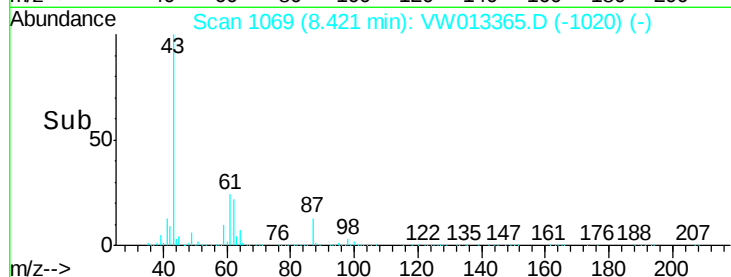
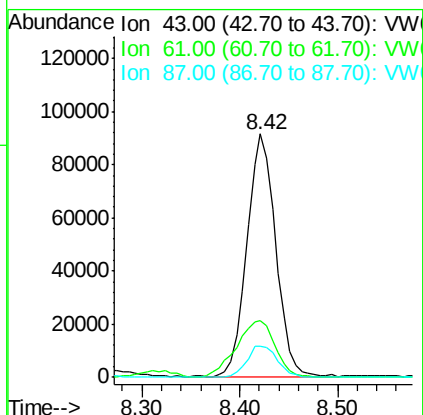
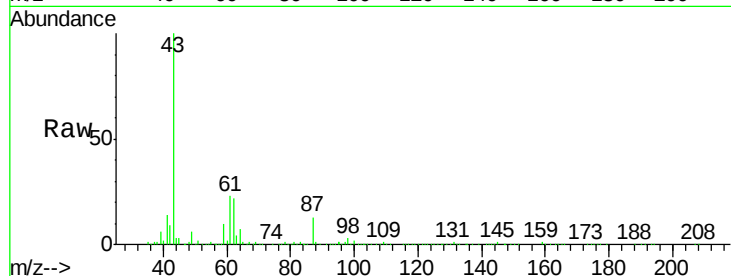
ClientSampleId :

VSTDCCC050EC

Tot Ion:	43	Resp:	186402
Ion	Ratio	Lower	Upper
43	100		
61	31.5	25.5	38.3
87	13.9	11.0	16.4

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:32:39 AM



#44

Trichloroethene

Concen: 48.914 ug/l

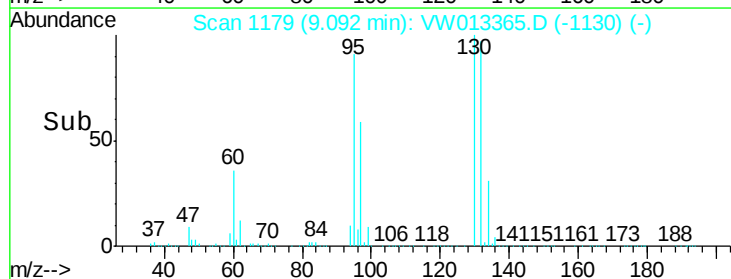
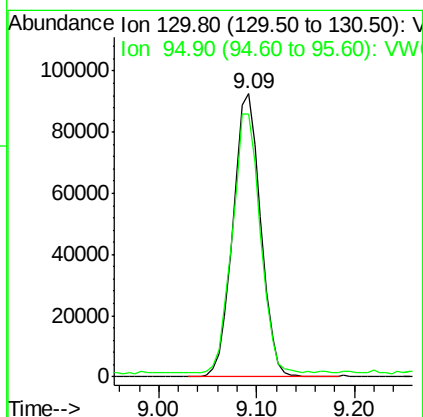
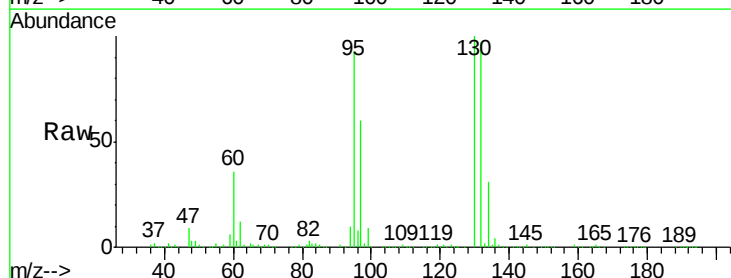
RT: 9.09 min Scan# 1179

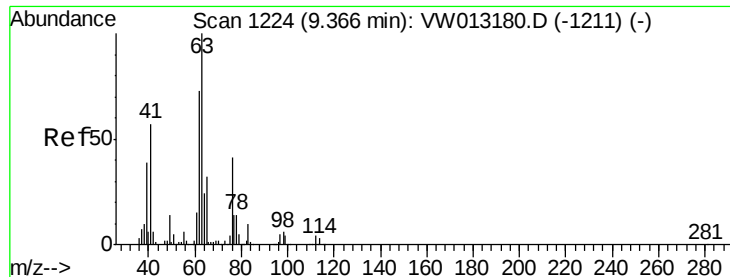
Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Tgt Ion:	130	Resp:	181119
Ion	Ratio	Lower	Upper
130	100		
95	91.2	0.0	188.0





#45

1,2-Dichloropropane

Concen: 49.466 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 63 Resp: 159380

Ion Ratio Lower Upper

63 100

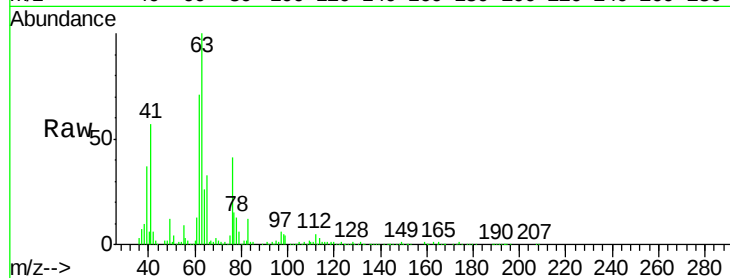
65 32.4 25.3 37.9

Manual Integrations

APPROVED

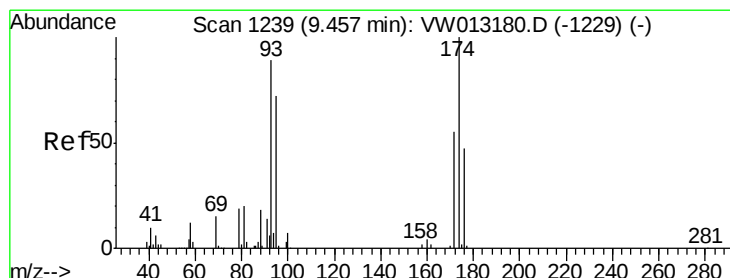
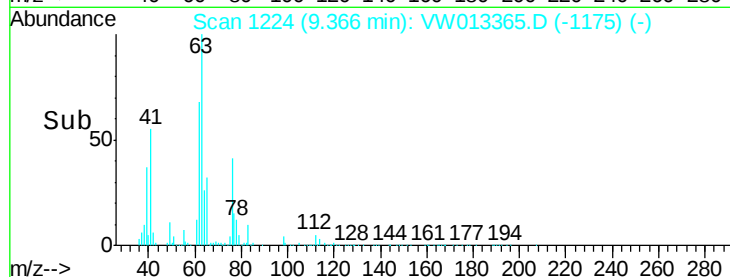
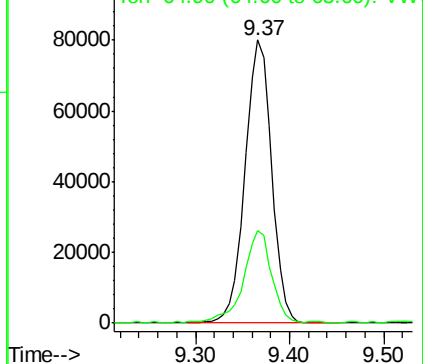
MMDadoda

10/1/2019 11:32:39 AM



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW



#46

Dibromomethane

Concen: 49.844 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

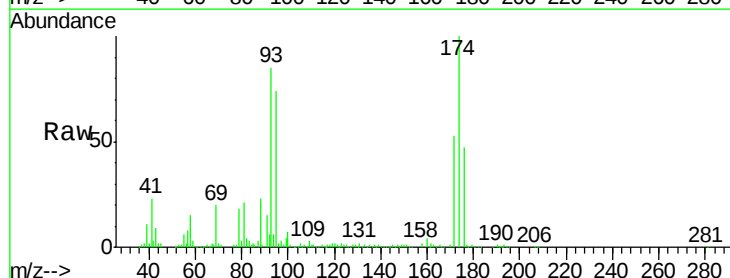
Tgt Ion: 93 Resp: 77971

Ion Ratio Lower Upper

93 100

95 83.1 66.4 99.6

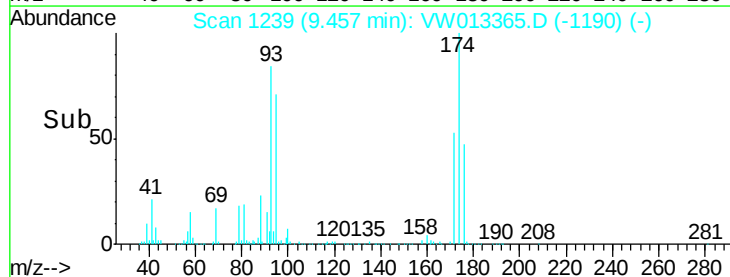
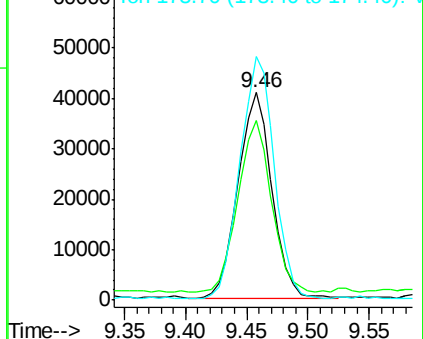
174 120.4 93.0 139.6



Abundance Ion 92.80 (92.50 to 93.50): VW

Ion 94.80 (94.50 to 95.50): VW

Ion 173.70 (173.40 to 174.40): V





#47

Bromodichloromethane

Concen: 48.465 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

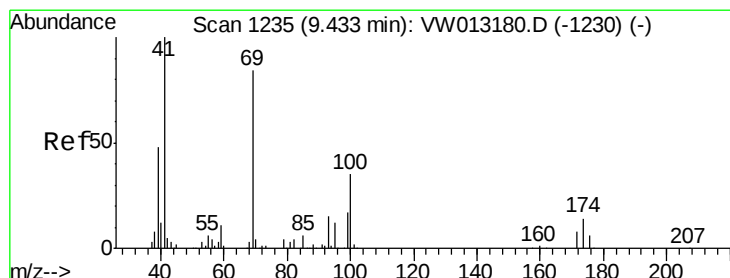
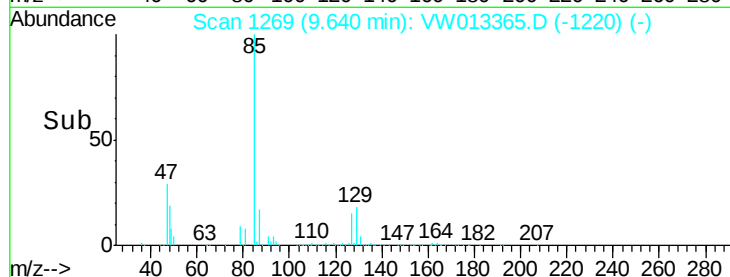
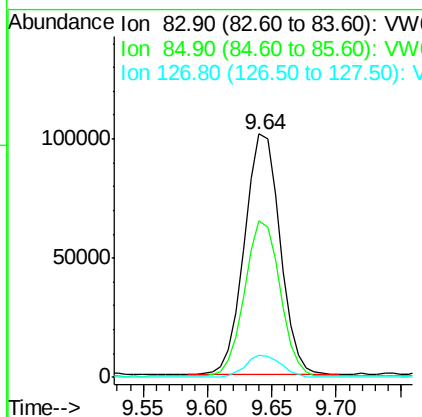
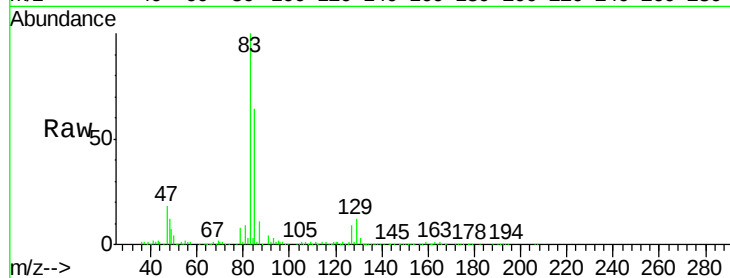
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	192910
Ion	Ratio	Lower	Upper
83	100		
85	64.4	49.4	74.2
127	9.2	6.5	9.7

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:32:39 AM



#48

Methyl methacrylate

Concen: 48.874 ug/l

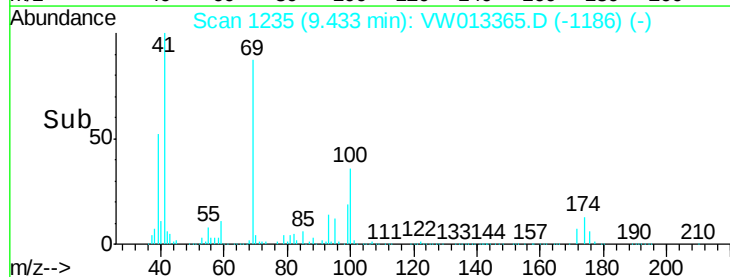
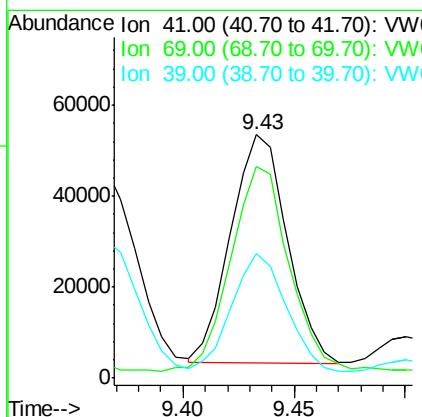
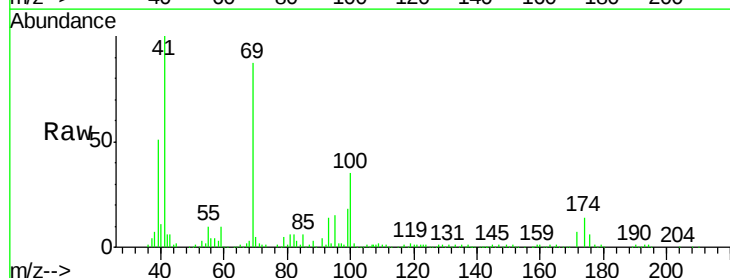
RT: 9.43 min Scan# 1235

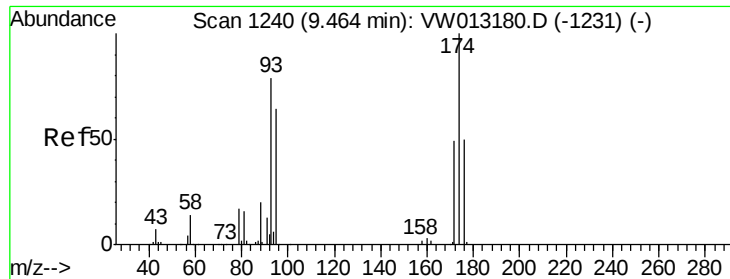
Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Tgt Ion:	41	Resp:	88571
Ion	Ratio	Lower	Upper
41	100		
69	93.7	69.7	104.5
39	50.5	41.1	61.7





#49

1,4-Dioxane

Concen: 1089.432 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.01 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

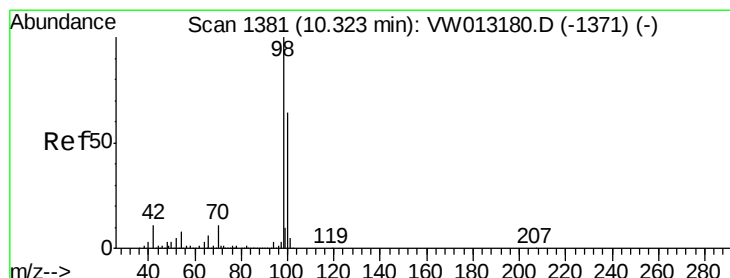
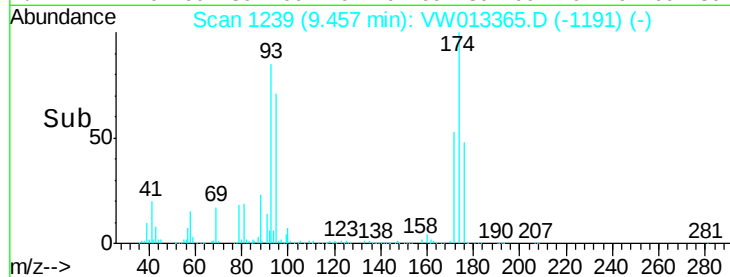
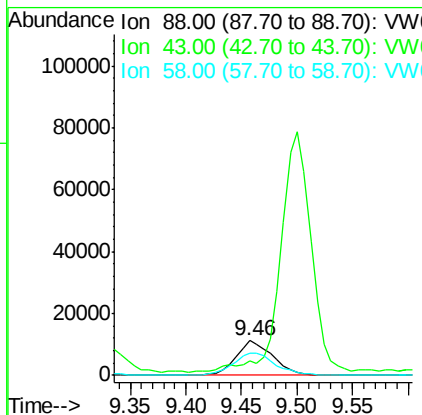
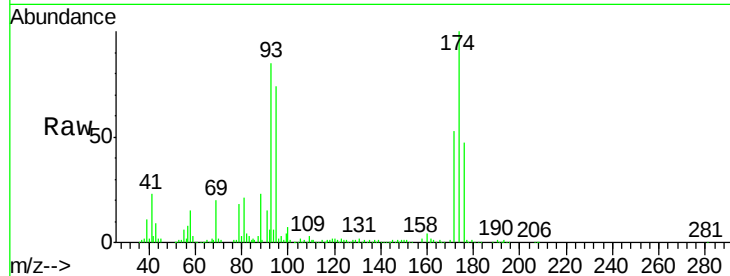
ClientSampleId :

VSTDCCC050EC

Tot Ion:	88	Resp:	25581
Ion Ratio	Lower	Upper	
88	100		
43	0.0	0.0	0.0
58	74.9	65.4	98.0

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:32:39 AM



#50

Toluene-d8

Concen: 48.683 ug/l

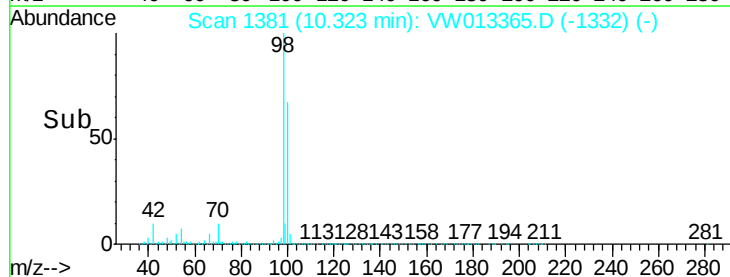
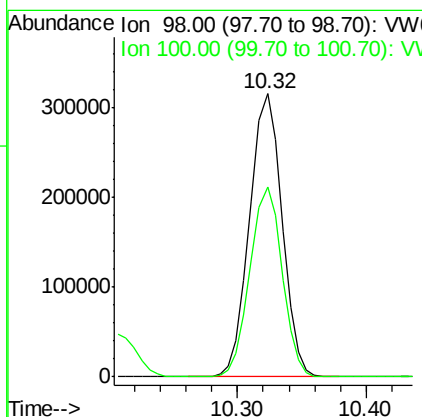
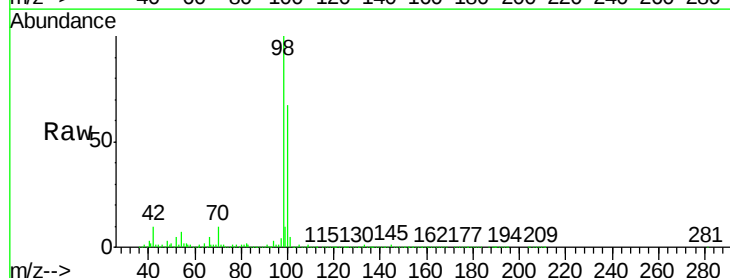
RT: 10.32 min Scan# 1381

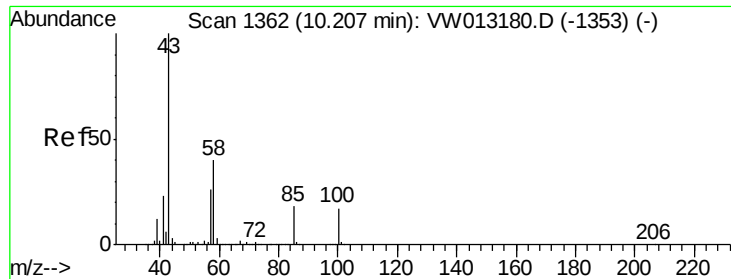
Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Tgt Ion:	98	Resp:	547411
Ion Ratio	Lower	Upper	
98	100		
100	66.9	52.9	79.3





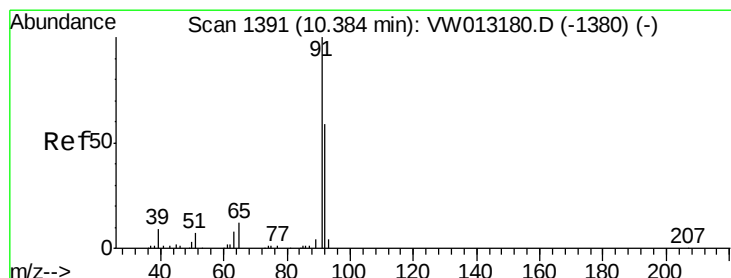
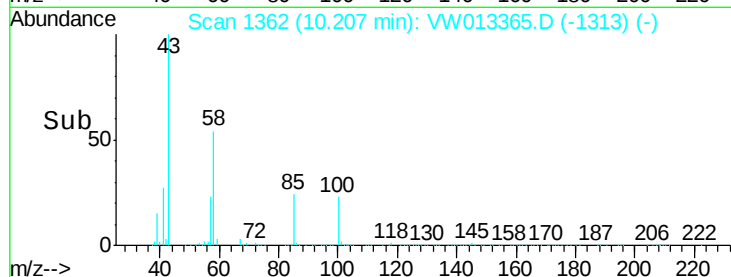
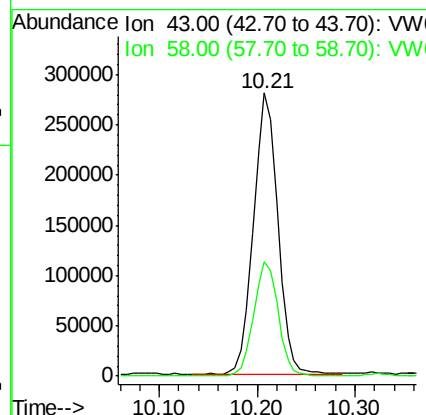
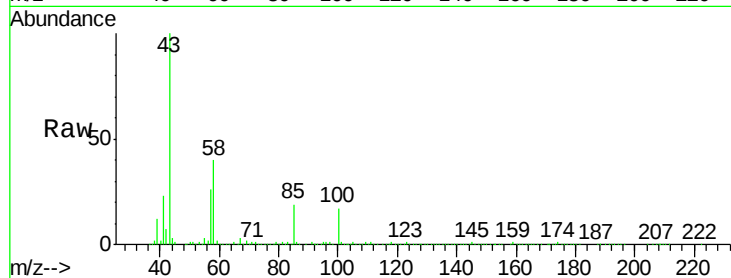
#51
 4-Methyl-2-Pentanone
 Concen: 250.415 ug/l
 RT: 10.21 min Scan# 1362
 Delta R.T. 0.00 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 43 Resp: 483825
 Ion Ratio Lower Upper
 43 100
 58 40.9 31.7 47.5

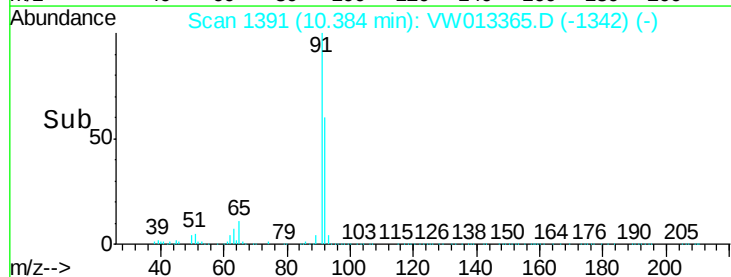
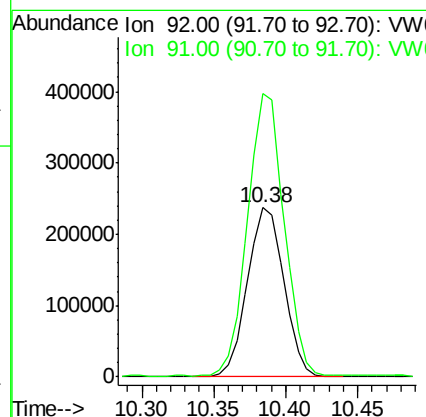
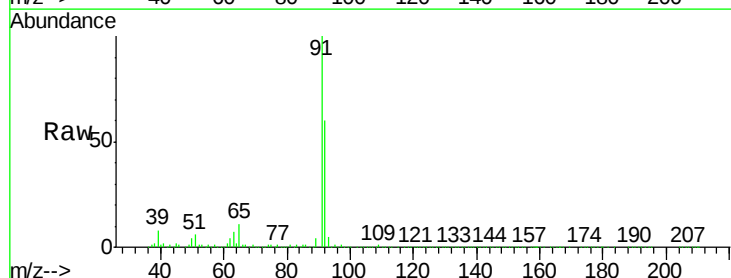
Manual Integrations
 APPROVED

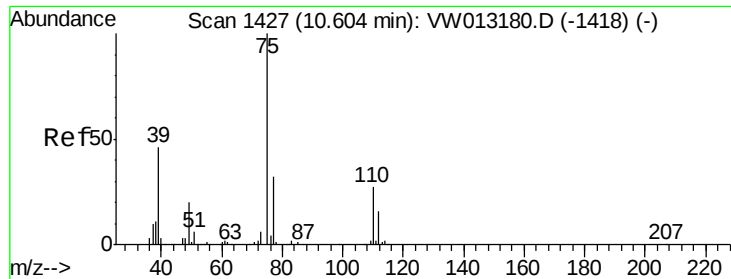
MMDadoda
 10/1/2019 11:32:39 AM



#52
 Toluene
 Concen: 49.125 ug/l
 RT: 10.38 min Scan# 1391
 Delta R.T. 0.00 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Tgt Ion: 92 Resp: 415504
 Ion Ratio Lower Upper
 92 100
 91 166.9 135.7 203.5





#53

t-1,3-Dichloropropene

Concen: 45.809 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 75 Resp: 187335

Ion Ratio Lower Upper

75 100

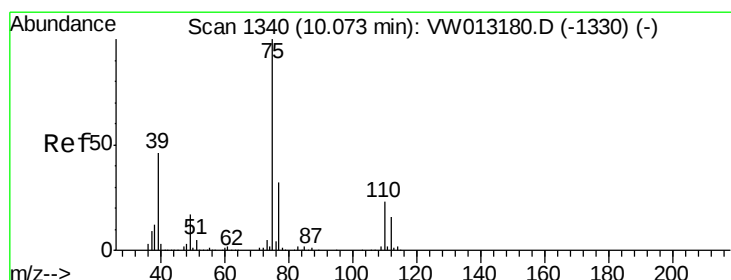
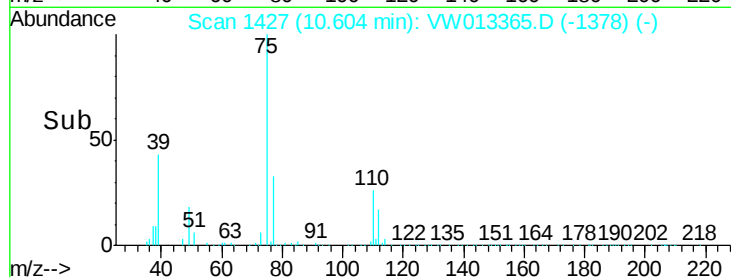
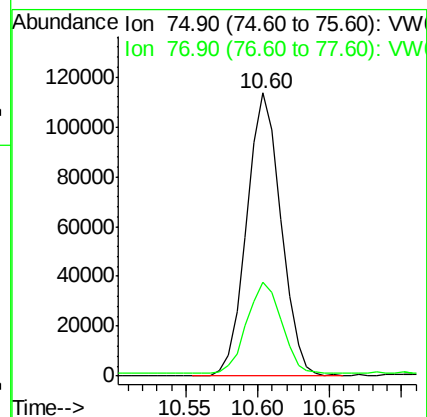
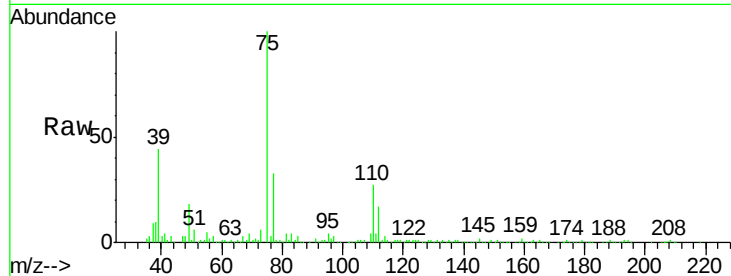
77 32.3 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:32:39 AM



#54

cis-1,3-Dichloropropene

Concen: 46.802 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

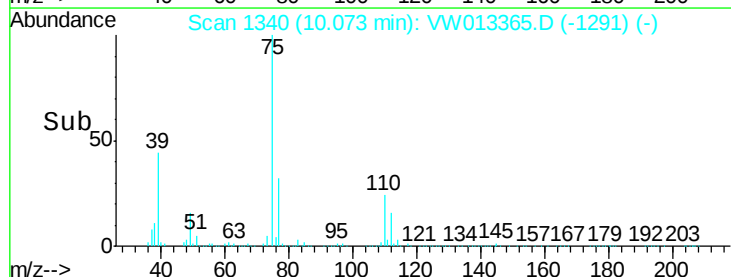
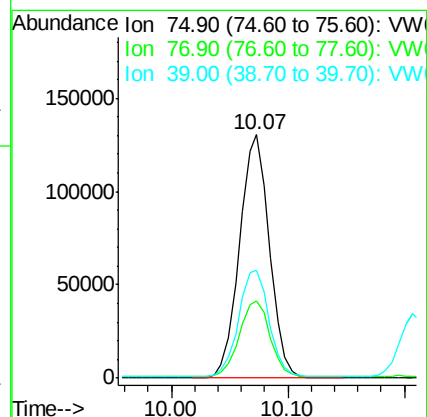
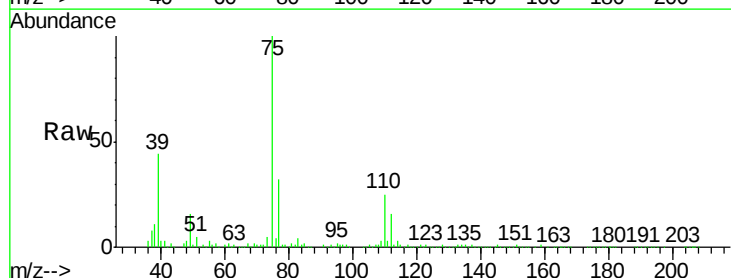
Tgt Ion: 75 Resp: 232710

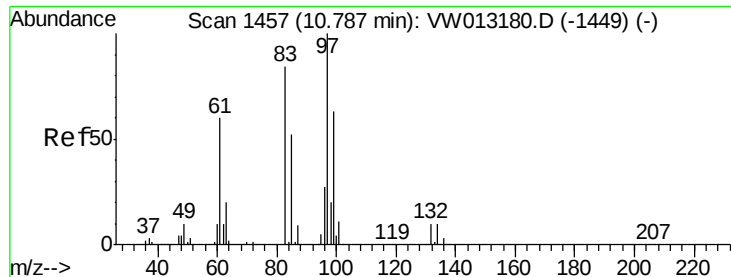
Ion Ratio Lower Upper

75 100

77 31.2 25.2 37.8

39 43.8 36.6 55.0





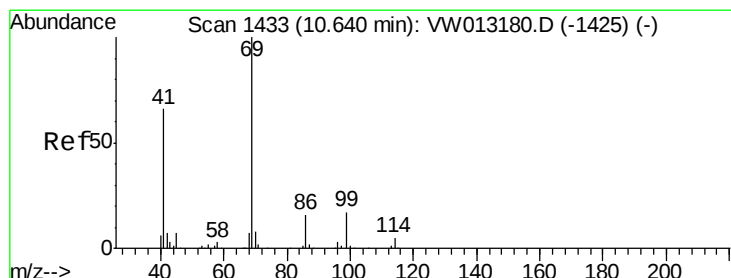
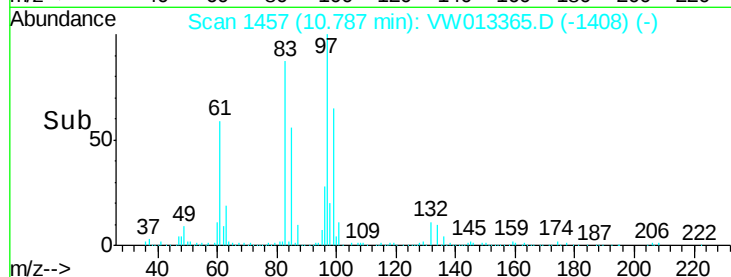
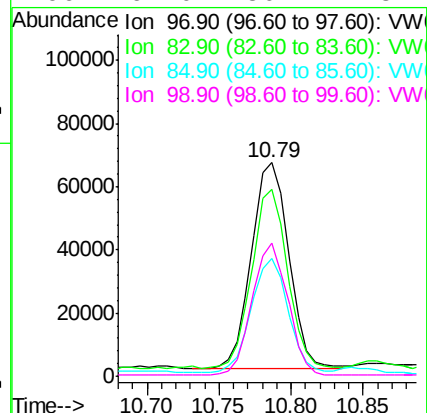
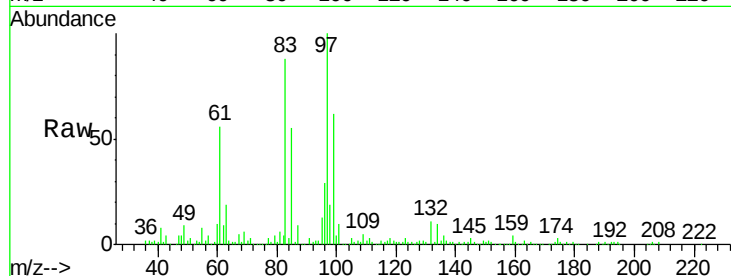
#55
 1,1,2-Trichloroethane
 Concen: 50.337 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. 0.00 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ion	Ratio	Resp	Lower	Upper
97	100		117694		
83	86.0	67.6	101.4		
85	55.0	41.9	62.9		
99	64.0	50.1	75.1		

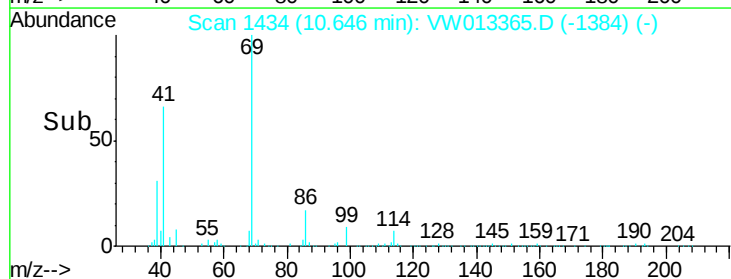
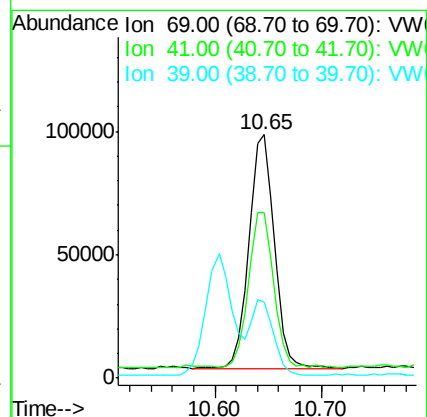
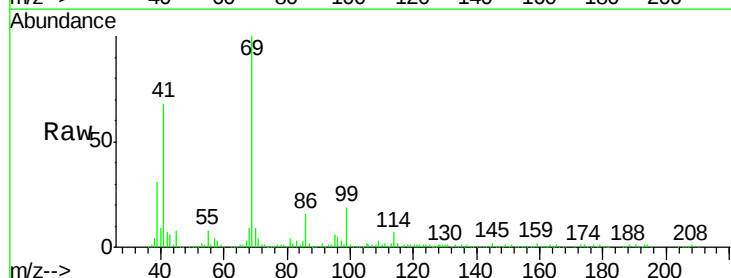
Manual Integrations
 APPROVED

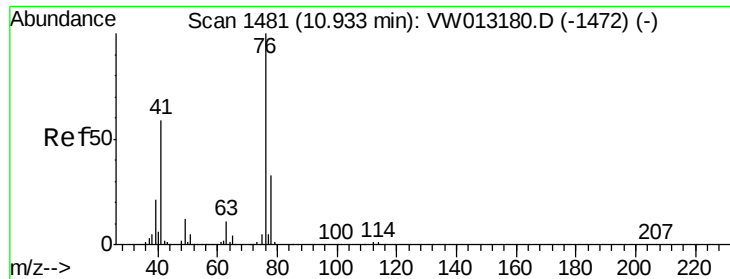
MMDadoda
 10/1/2019 11:32:39 AM



#56
 Ethyl methacrylate
 Concen: 52.507 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.01 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
69	100		160669		
41	64.5	53.9	80.9		
39	27.7	23.8	35.6		





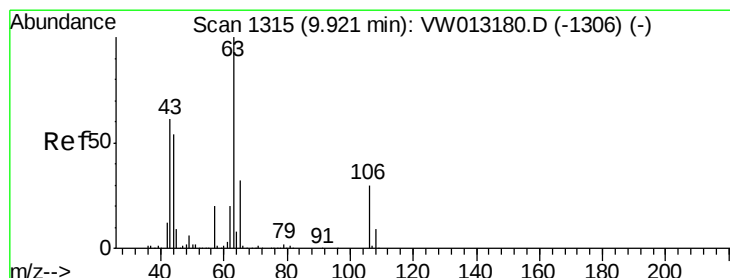
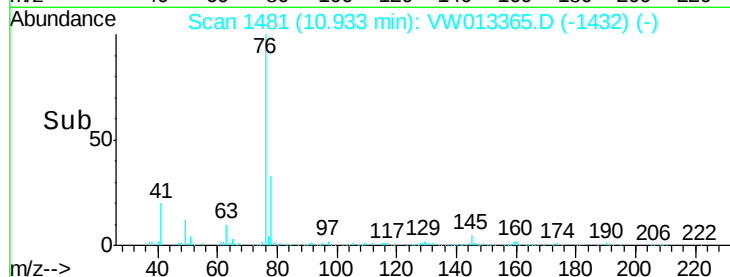
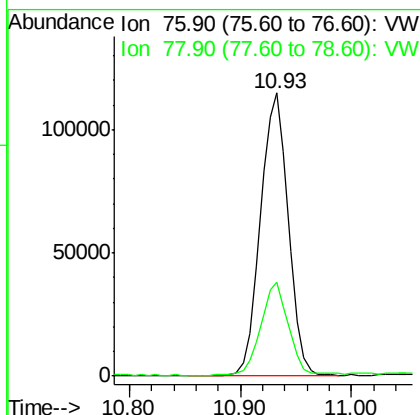
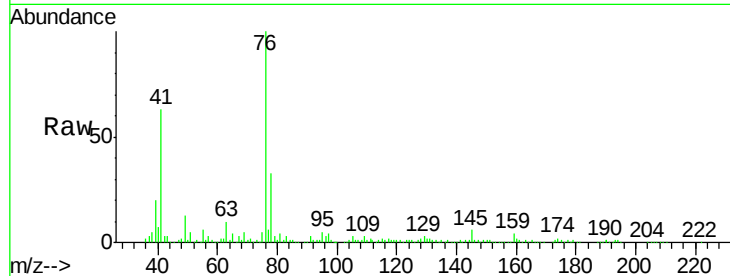
#57
 1,3-Dichloropropane
 Concen: 49.166 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. 0.00 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion: 76 Resp: 200601
 Ion Ratio Lower Upper
 76 100
 78 32.6 25.5 38.3

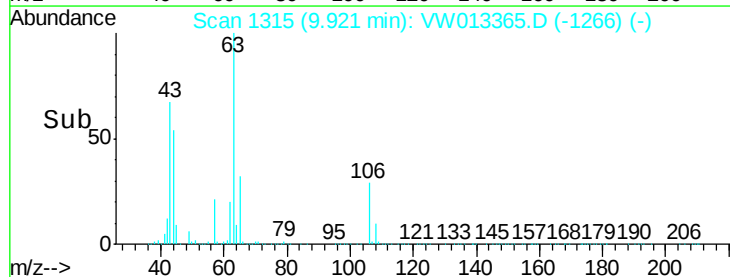
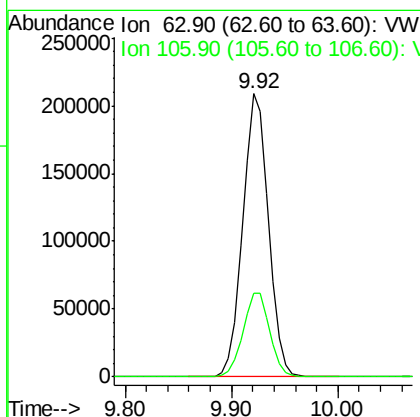
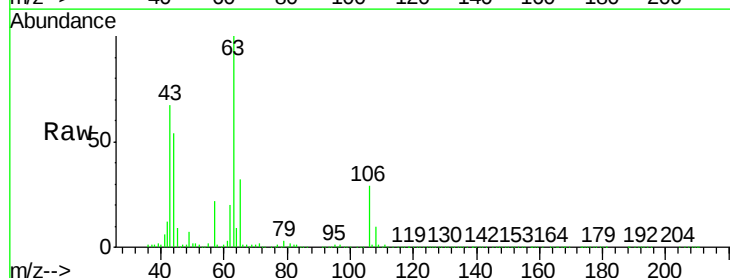
Manual Integrations
 APPROVED

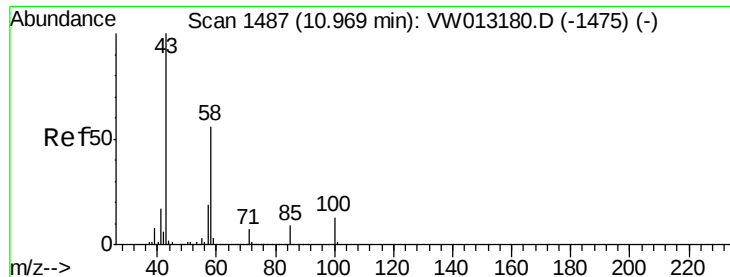
MMDadoda
 10/1/2019 11:32:39 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 250.021 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. 0.00 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Tgt Ion: 63 Resp: 354178
 Ion Ratio Lower Upper
 63 100
 106 30.6 23.4 35.0





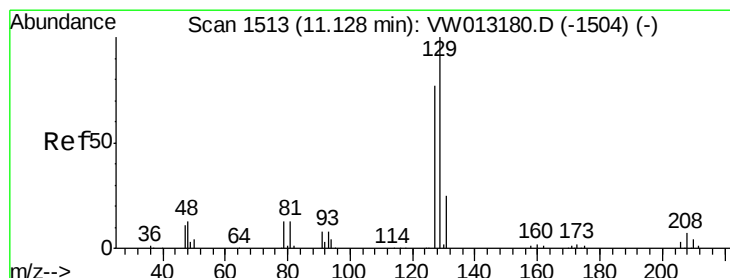
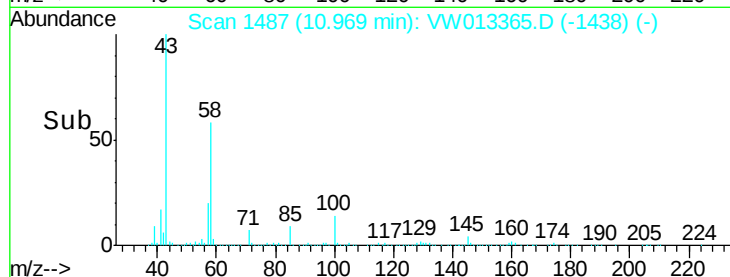
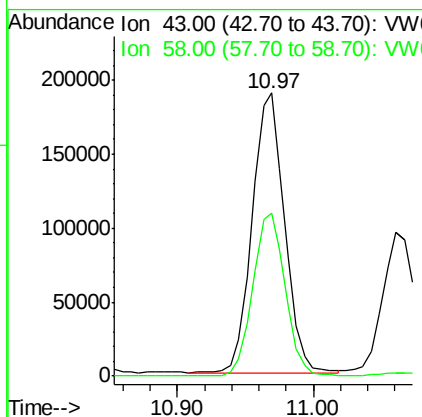
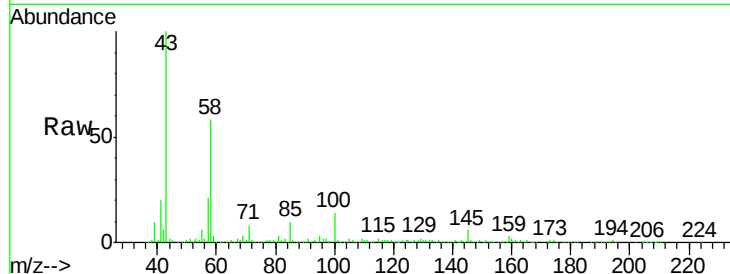
#59
2-Hexanone
Concen: 237.222 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion: 43 Resp: 315333
Ion Ratio Lower Upper
43 100
58 58.4 28.1 84.2

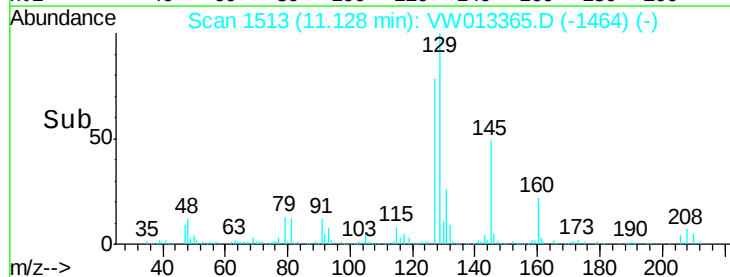
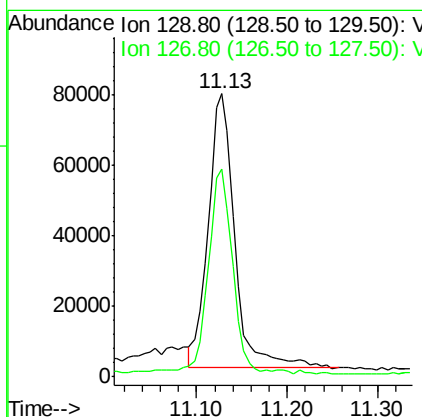
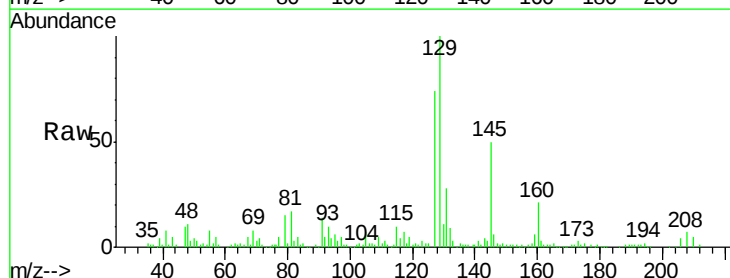
Manual Integrations
APPROVED

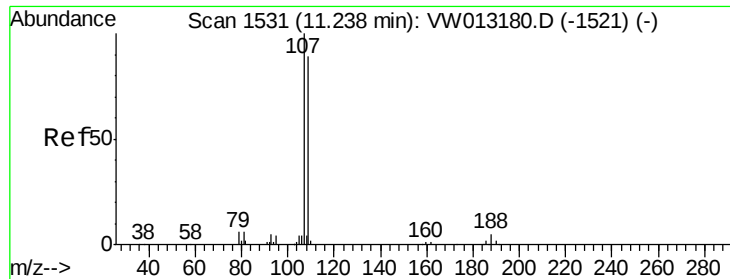
MMDadoda
10/1/2019 11:32:39 AM



#60
Dibromochloromethane
Concen: 59.915 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion: 129 Resp: 159069
Ion Ratio Lower Upper
129 100
127 68.6 38.8 116.4





#61

1,2-Dibromoethane

Concen: 49.401 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 107 Resp: 109822

Ion Ratio Lower Upper

107 100

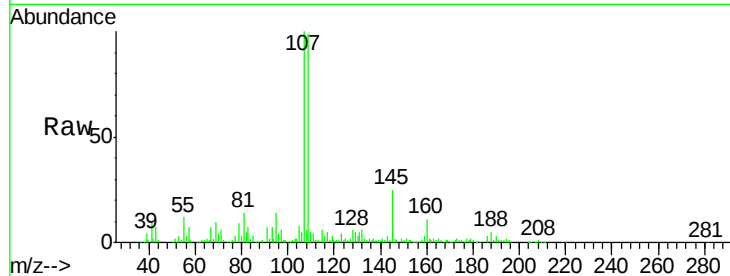
109 96.7 75.2 112.8

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:32:39 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.24

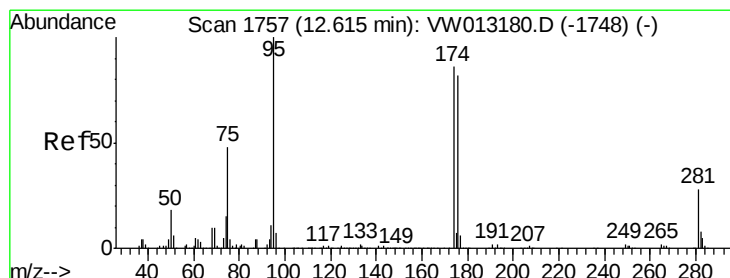
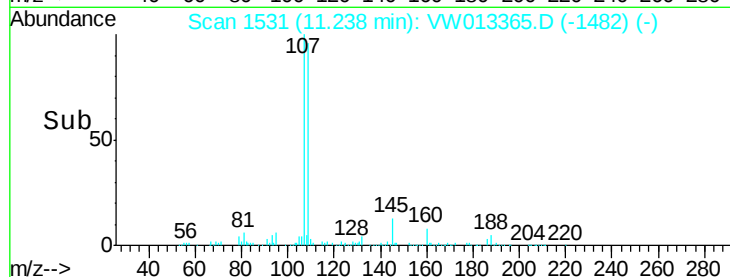
60000

40000

20000

0

Time--> 11.15 11.20 11.25 11.30



#62

4-Bromofluorobenzene

Concen: 53.856 ug/l

RT: 12.62 min Scan# 1757

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

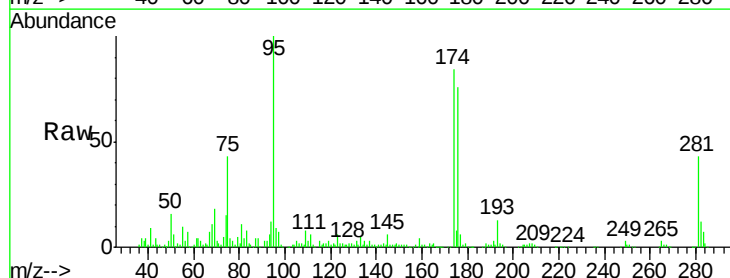
Tgt Ion: 95 Resp: 206858

Ion Ratio Lower Upper

95 100

174 86.1 0.0 178.4

176 78.4 0.0 172.2



Abundance Ion 94.90 (94.60 to 95.60): VW

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.62

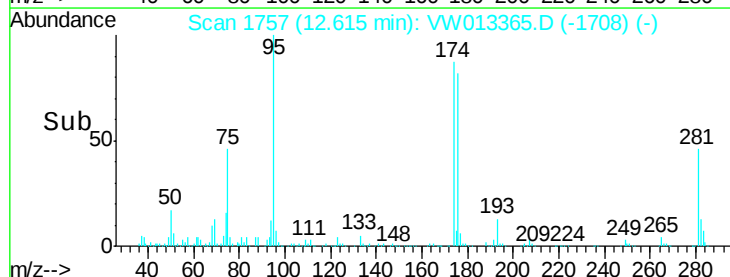
150000

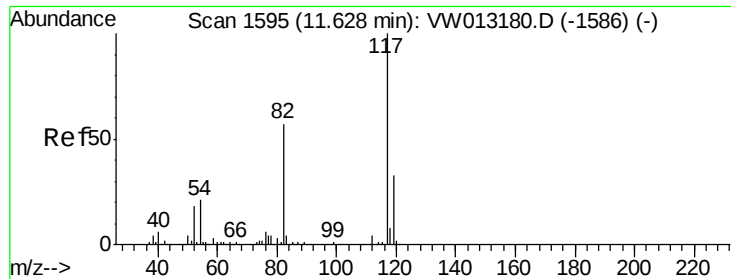
100000

50000

0

Time--> 12.60 12.70





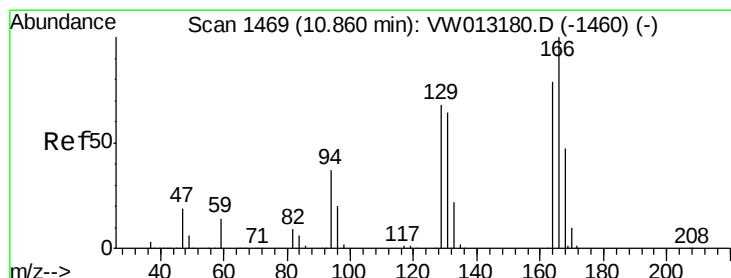
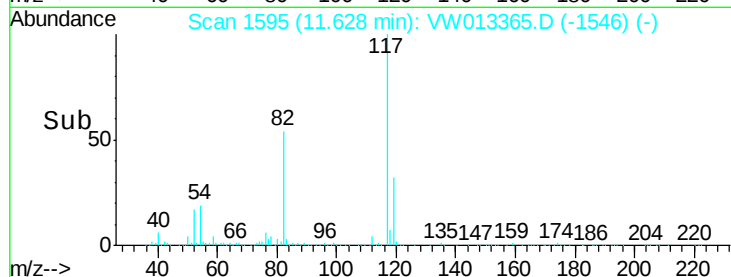
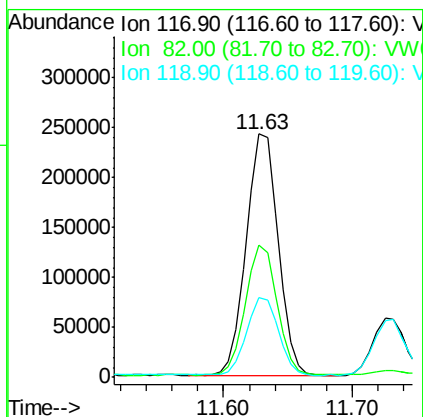
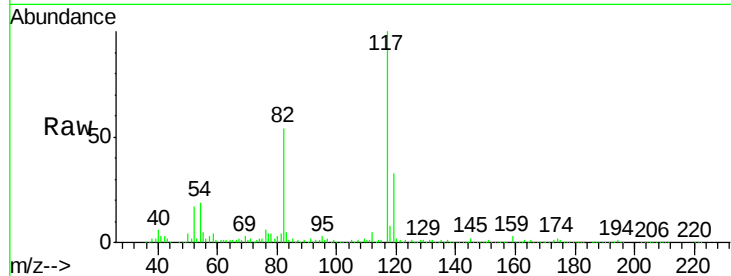
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.6	45.9	68.9
119	32.2	26.2	39.2

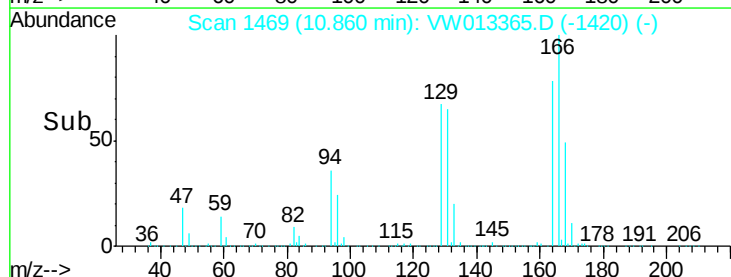
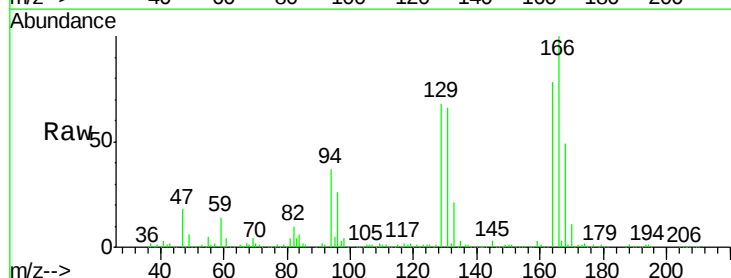
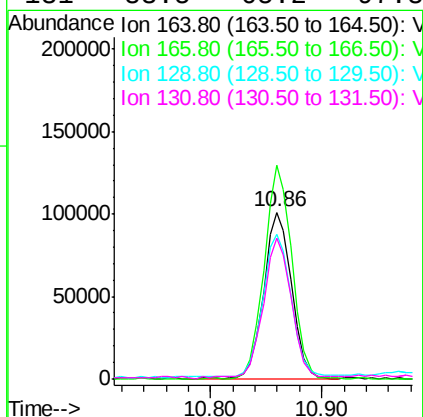
Manual Integrations
APPROVED

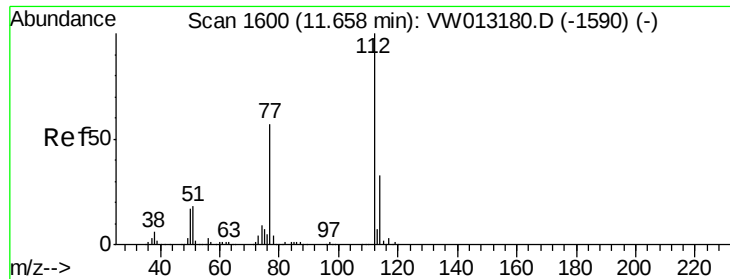
MMDadoda
10/1/2019 11:32:39 AM



#64
Tetrachloroethene
Concen: 55.508 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.1	101.2	151.8
129	85.5	68.8	103.2
131	83.5	65.2	97.8





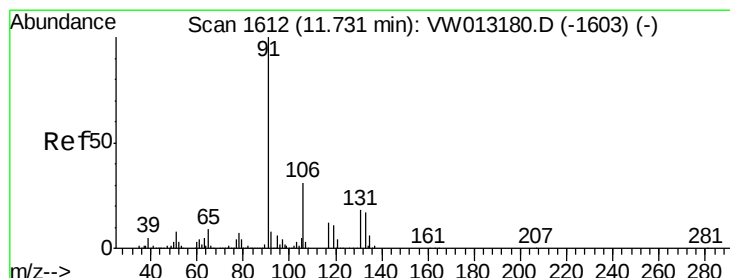
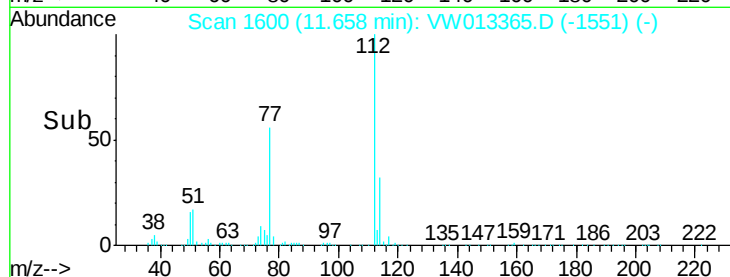
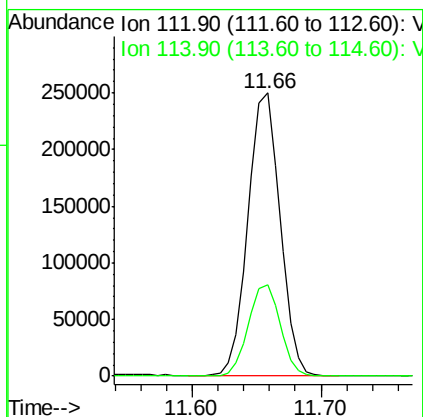
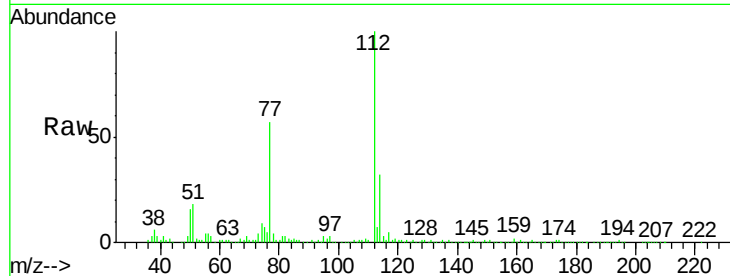
#65
Chlorobenzene
Concen: 49.392 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion:112 Resp: 427282
Ion Ratio Lower Upper
112 100
114 32.2 26.5 39.7

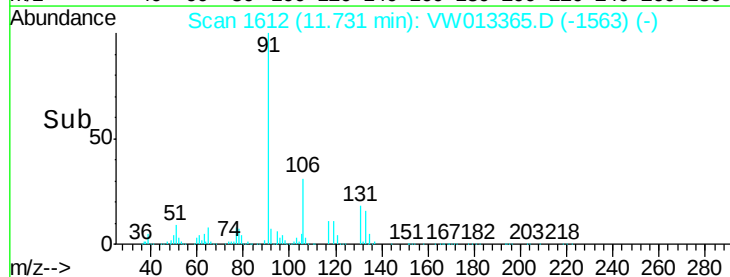
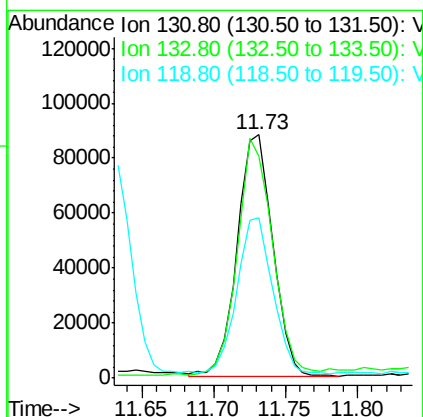
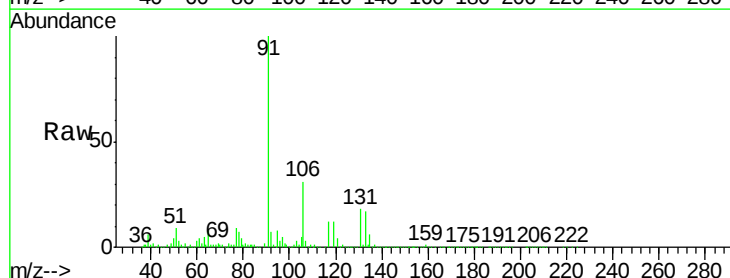
Manual Integrations
APPROVED

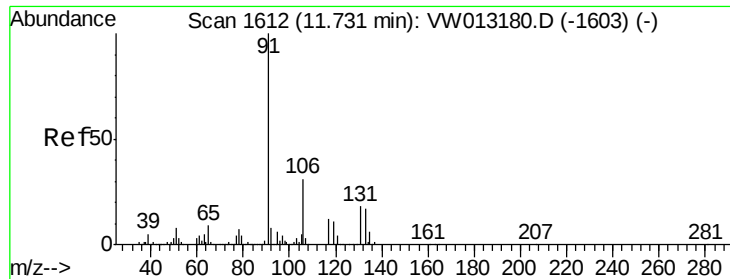
MMDadoda
10/1/2019 11:32:39 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 50.866 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion:131 Resp: 150329
Ion Ratio Lower Upper
131 100
133 97.7 47.5 142.6
119 64.2 32.5 97.5





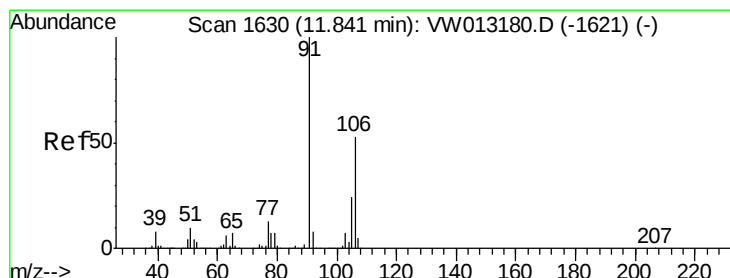
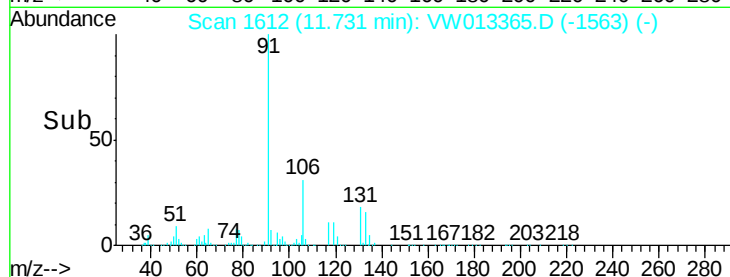
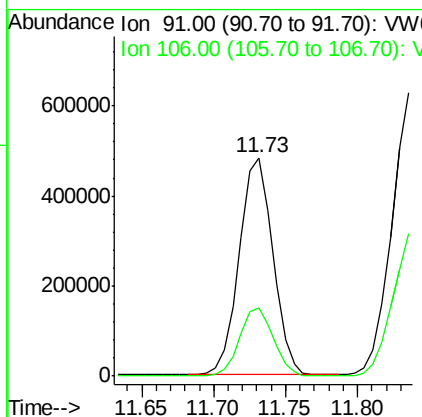
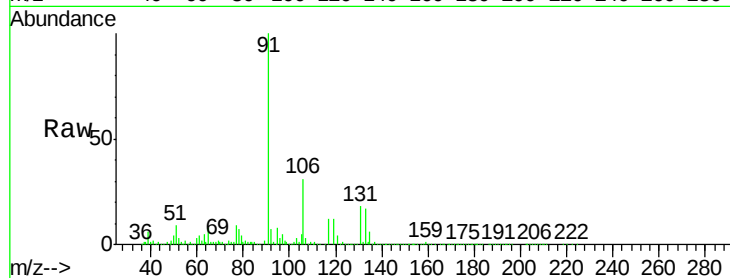
#67
Ethyl Benzene
Concen: 49.981 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampled :
VSTDCCC050EC

Tot Ion: 91 Resp: 783423
Ion Ratio Lower Upper
91 100
106 31.2 24.9 37.3

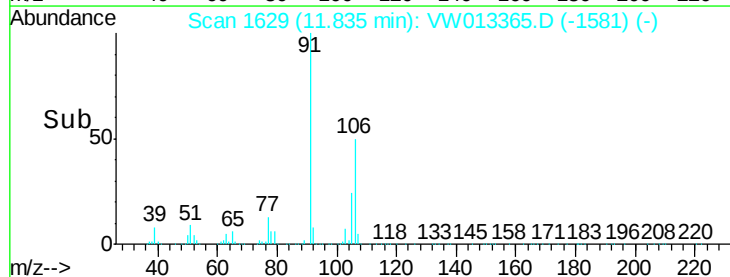
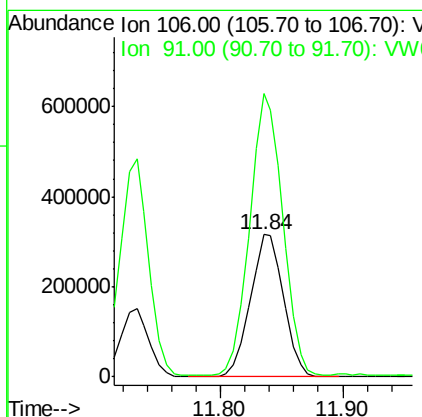
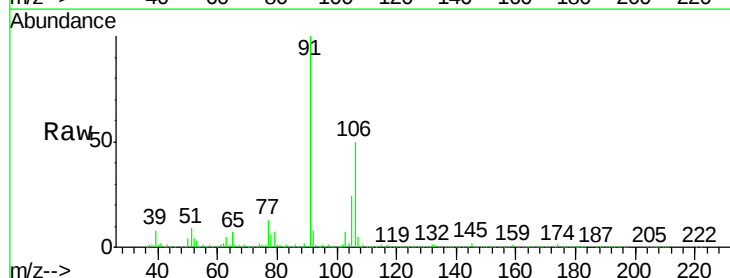
Manual Integrations
APPROVED

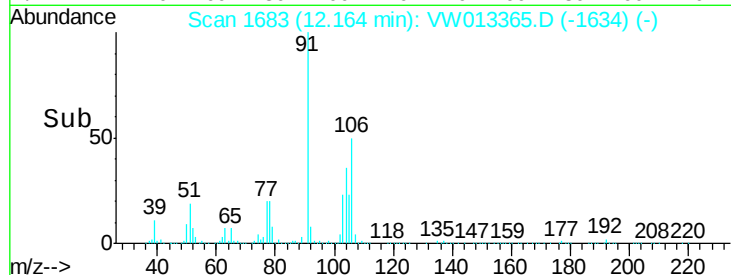
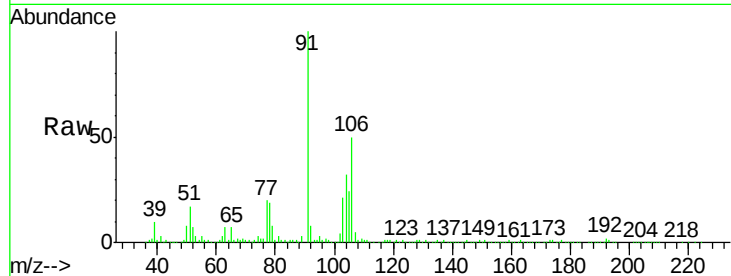
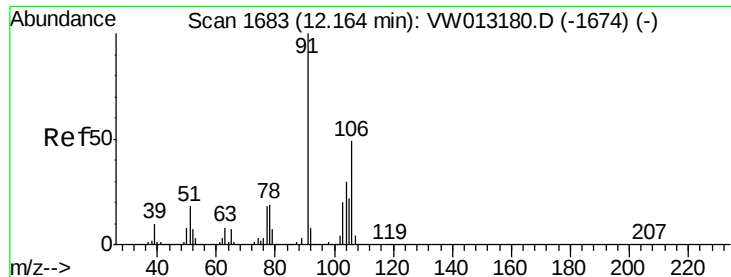
MMDadoda
10/1/2019 11:32:39 AM



#68
m/p-Xylenes
Concen: 99.176 ug/l
RT: 11.84 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion: 106 Resp: 592369
Ion Ratio Lower Upper
106 100
91 198.0 157.9 236.9





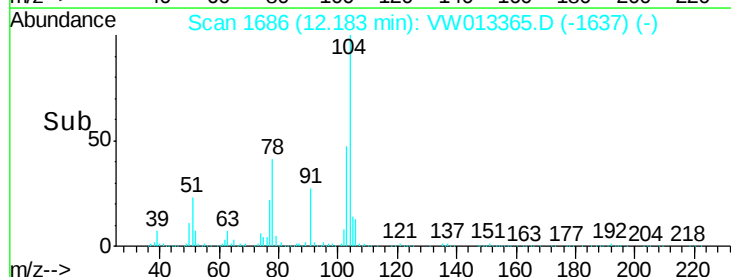
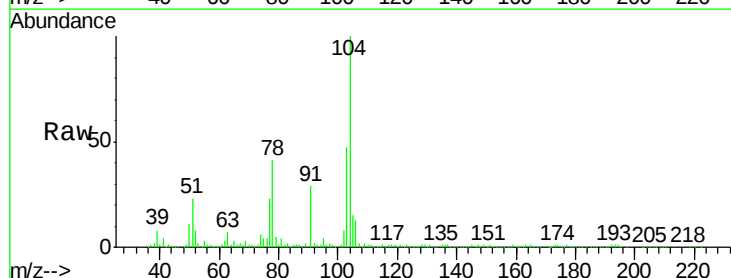
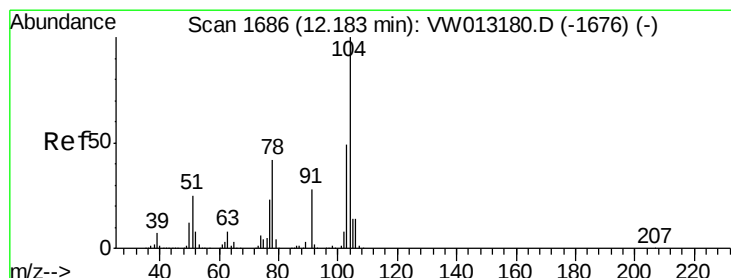
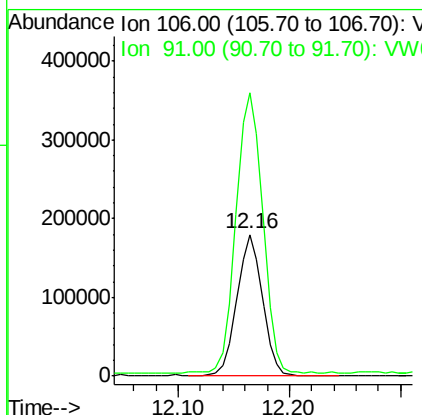
#69
o-Xylene
Concen: 51.218 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tot Ion:106 Resp: 284422
Ion Ratio Lower Upper
106 100
91 207.2 106.5 319.5

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

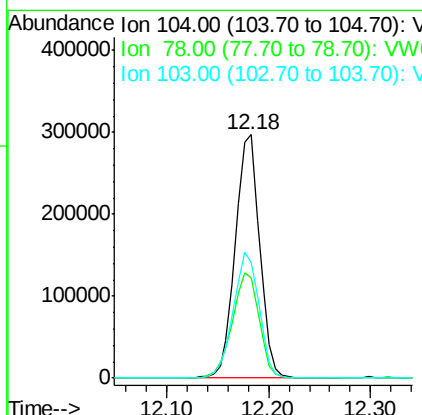
Manual Integrations
APPROVED

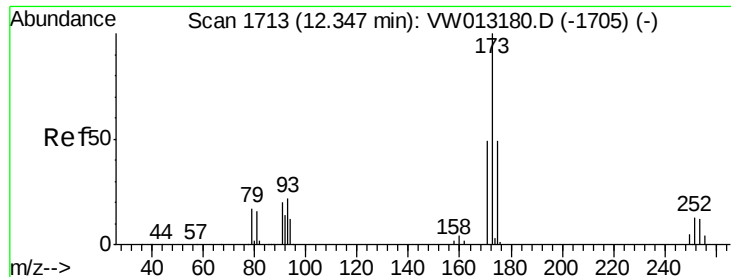
MMDadoda
10/1/2019 11:32:39 AM



#70
Styrene
Concen: 51.088 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion:104 Resp: 487054
Ion Ratio Lower Upper
104 100
78 46.9 38.4 57.6
103 54.5 43.3 64.9





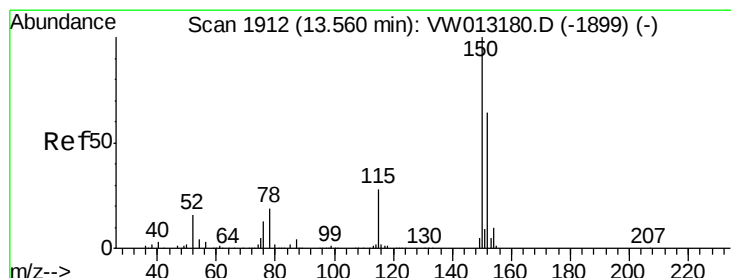
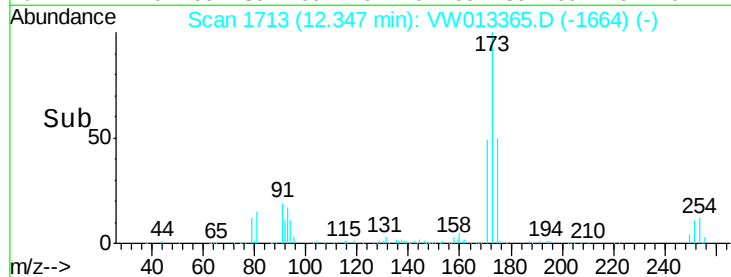
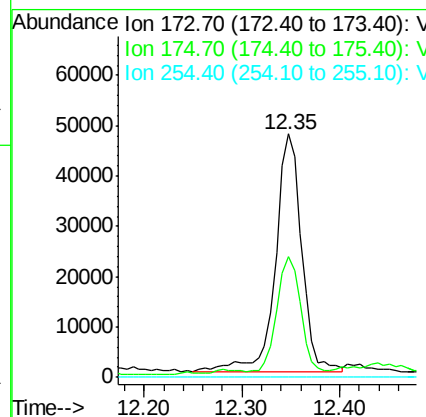
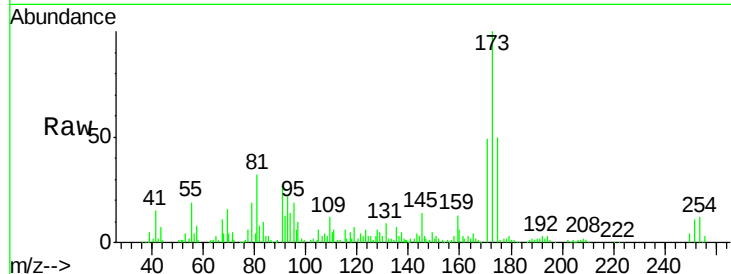
#71
Bromoform
Concen: 56.958 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
173	100		
175	44.8	24.3	73.0
254	0.1	0.1	0.1

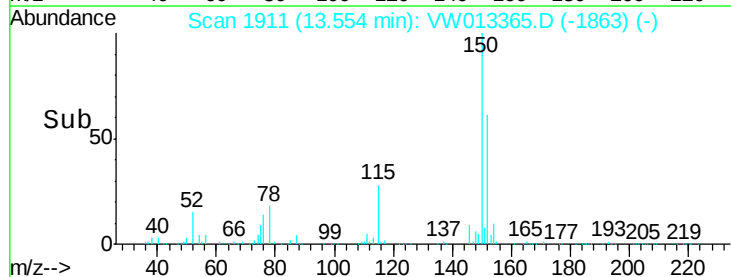
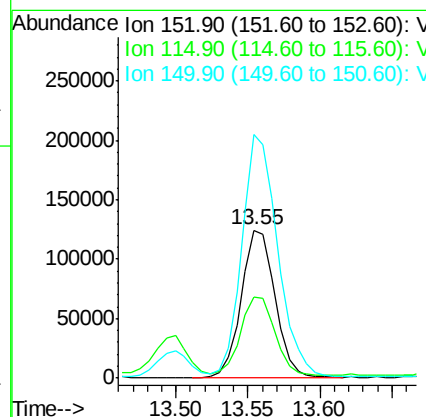
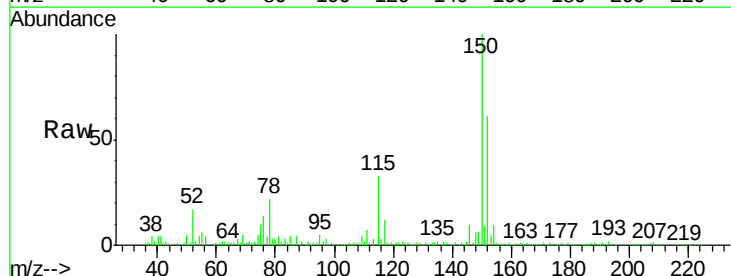
Manual Integrations
APPROVED

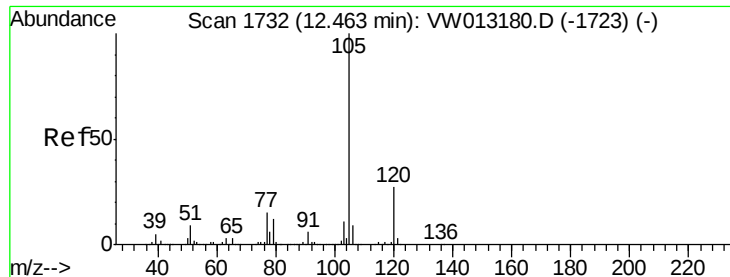
MMDadoda
10/1/2019 11:32:39 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.55 min Scan# 1911
Delta R.T. -0.01 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
152	100		
115	53.5	27.3	81.9
150	176.6	0.0	349.0





#73

Isopropylbenzene

Concen: 53.572 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 786448

Ion Ratio Lower Upper

105 100

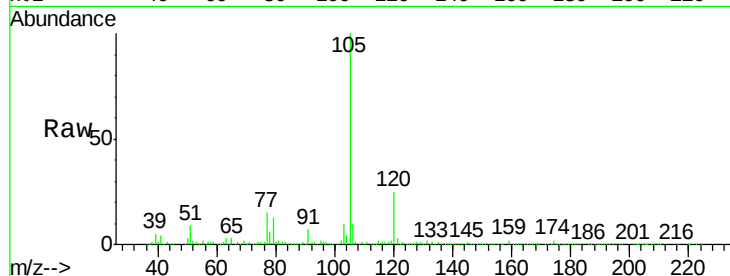
120 25.6 13.4 40.1

Manual Integrations

APPROVED

MMDadoda

10/1/2019 11:32:39 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

600000

500000

400000

300000

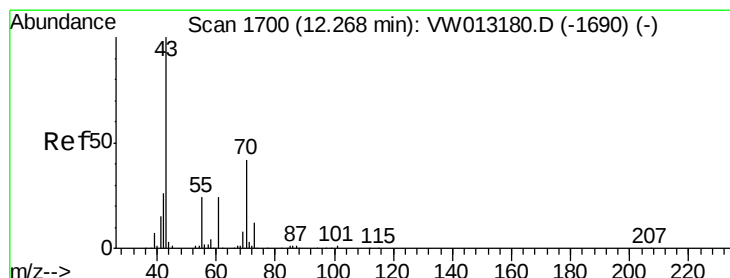
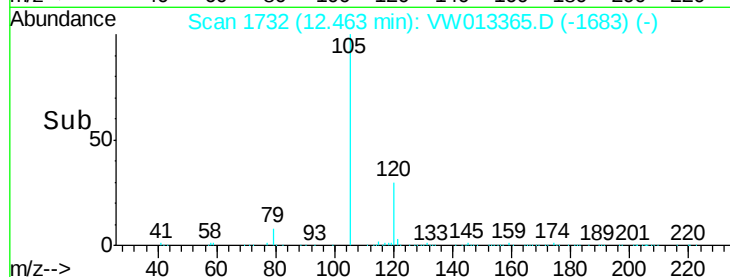
200000

100000

0

12.30 12.40 12.50 12.60

Time-->



#74

N-ethyl acetate

Concen: 50.814 ug/l

RT: 12.27 min Scan# 1700

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Tgt Ion: 43 Resp: 165530

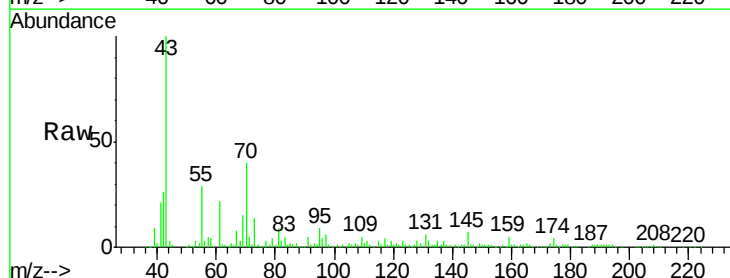
Ion Ratio Lower Upper

43 100

70 43.6 35.1 52.7

55 24.6 19.9 29.9

61 24.7 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV

150000

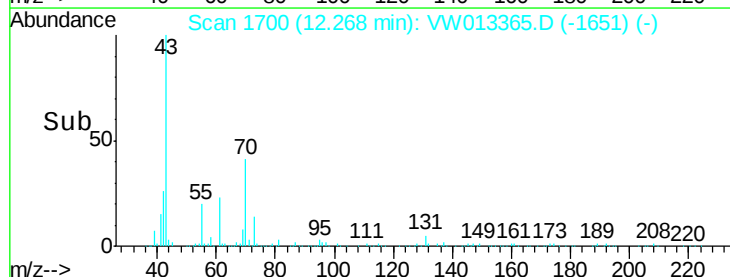
100000

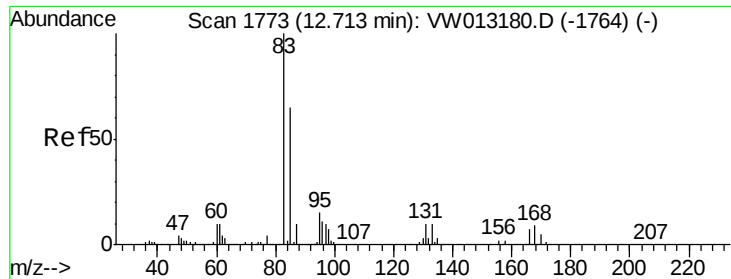
50000

0

12.20 12.25 12.30

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 53.301 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

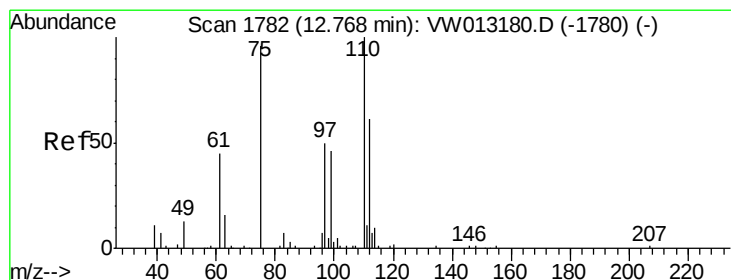
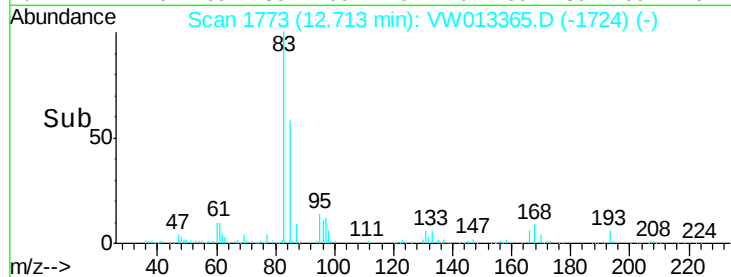
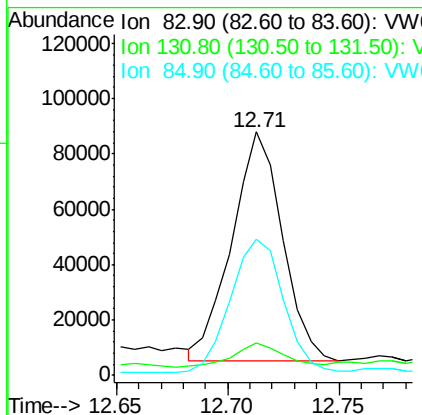
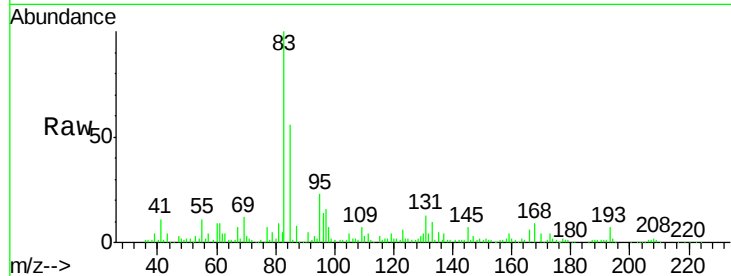
ClientSampleId :

VSTDCCC050EC

Tot Ion:	83	Resp:	130863
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.4	16.2
85	61.2	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:32:39 AM



#76

1,2,3-Trichloropropane

Concen: 45.701 ug/l m

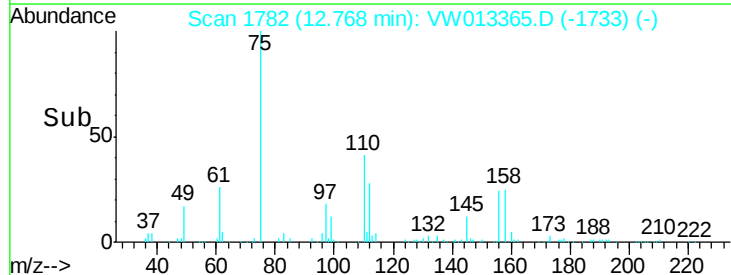
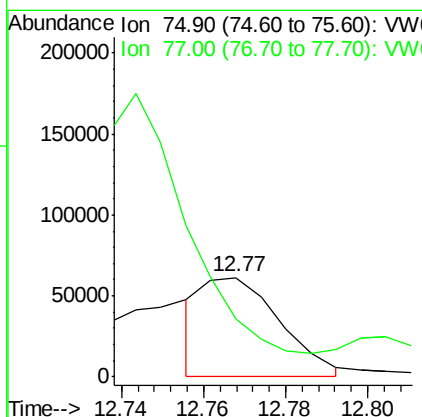
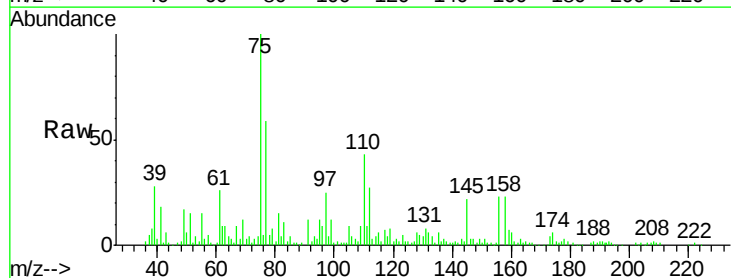
RT: 12.77 min Scan# 1782

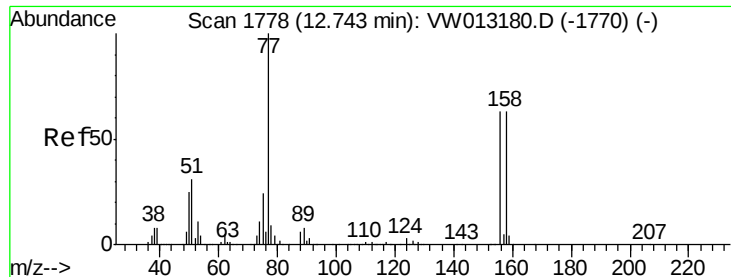
Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Tgt Ion:	75	Resp:	80207
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 51.771 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion:156 Resp: 180103

Ion Ratio Lower Upper

156 100

77 169.3 85.7 257.1

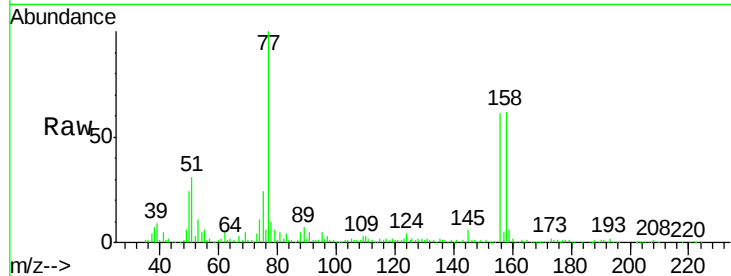
158 100.2 48.1 144.4

Manual Integrations

APPROVED

MMDadoda

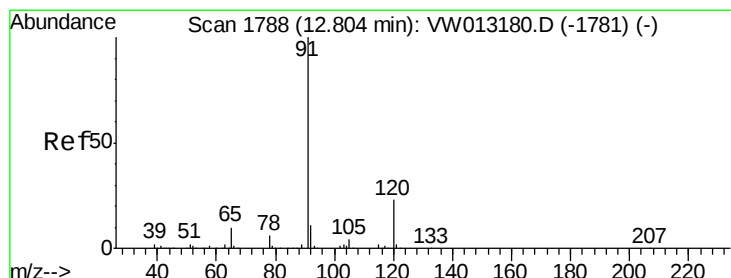
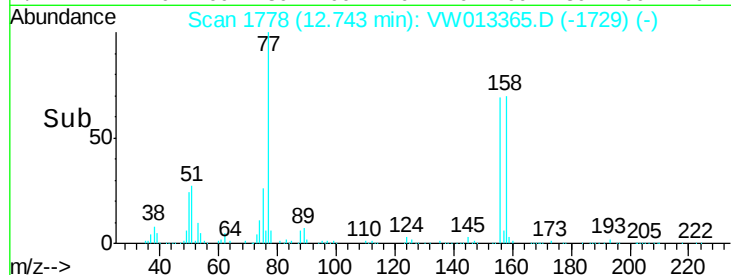
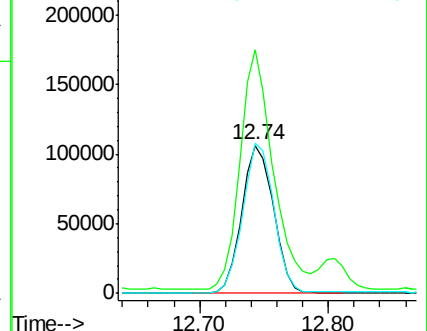
10/1/2019 11:32:39 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 49.214 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. 0.00 min

Lab File: VW013365.D

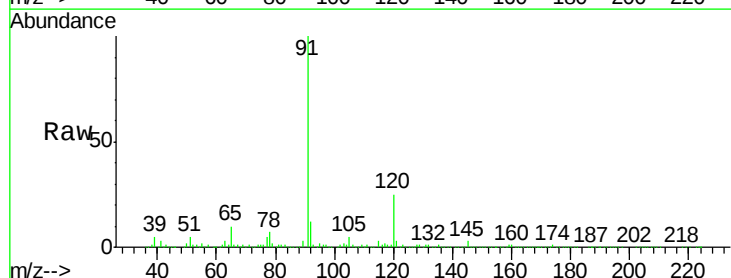
Acq: 01 Oct 2019 06:50

Tgt Ion: 91 Resp: 845679

Ion Ratio Lower Upper

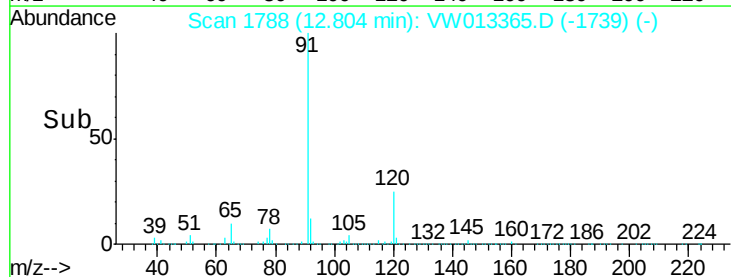
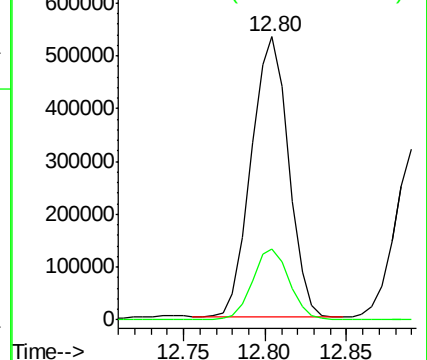
91 100

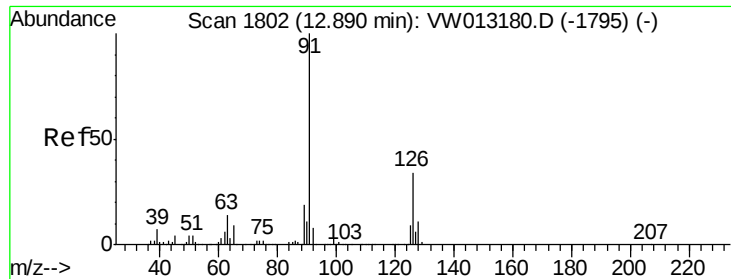
120 24.6 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 51.313 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion: 91 Resp: 493992

Ion Ratio Lower Upper

91 100

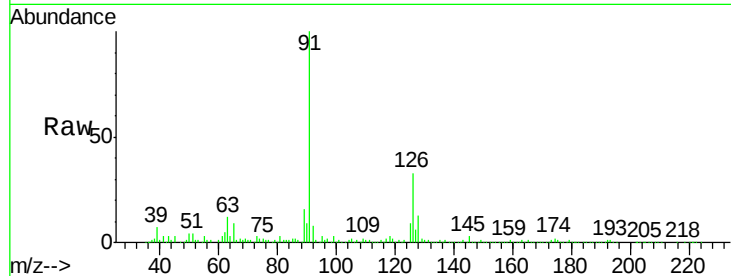
126 35.2 17.2 51.5

Manual Integrations

APPROVED

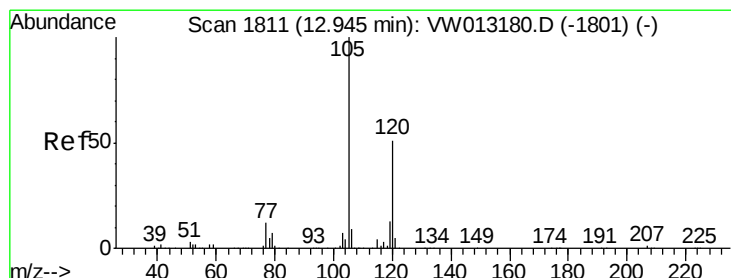
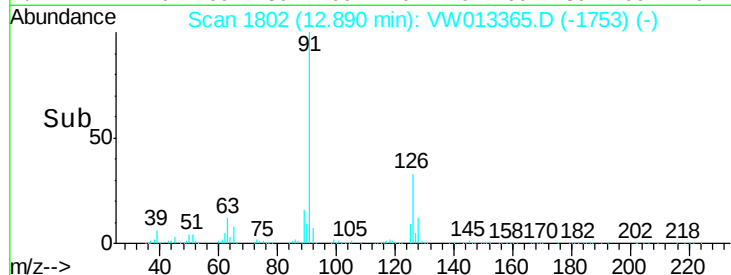
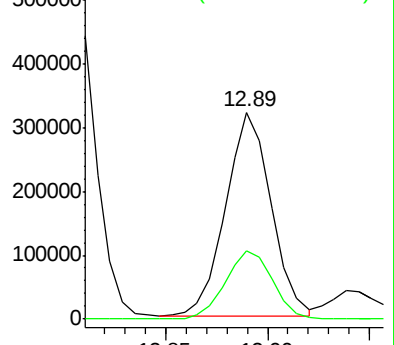
MMDadoda

10/1/2019 11:32:39 AM



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 51.551 ug/l

RT: 12.94 min Scan# 1810

Delta R.T. -0.01 min

Lab File: VW013365.D

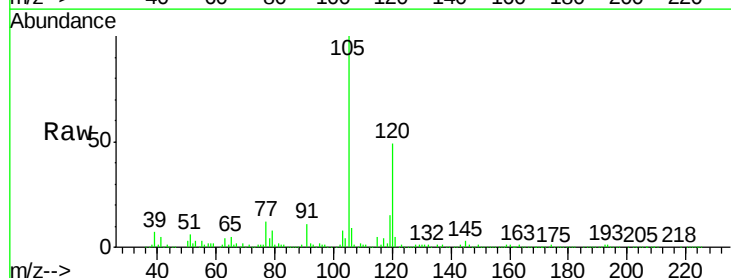
Acq: 01 Oct 2019 06:50

Tgt Ion: 105 Resp: 636157

Ion Ratio Lower Upper

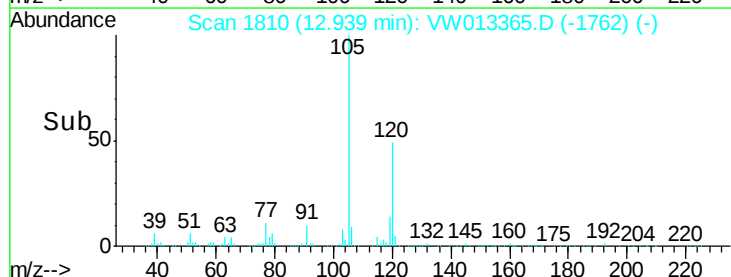
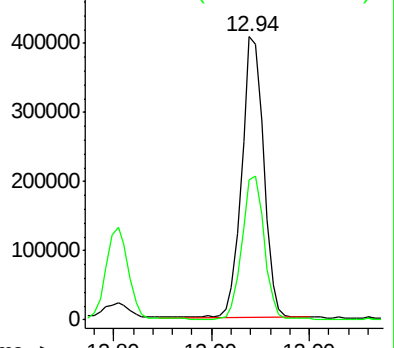
105 100

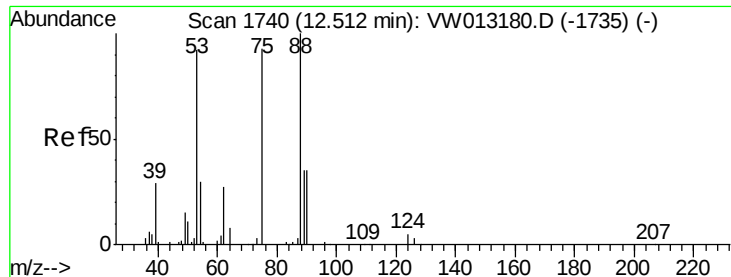
120 51.4 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





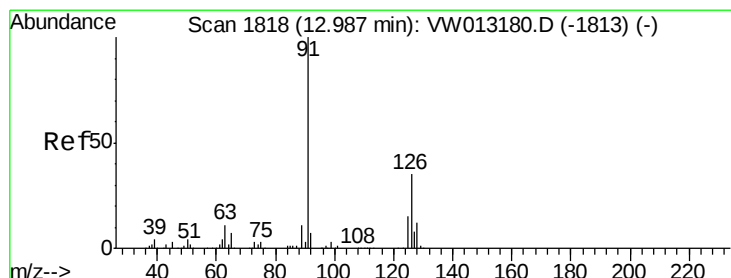
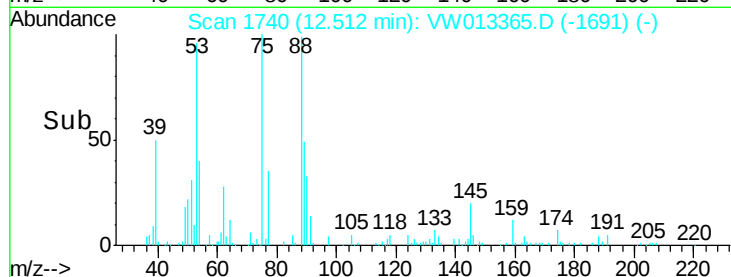
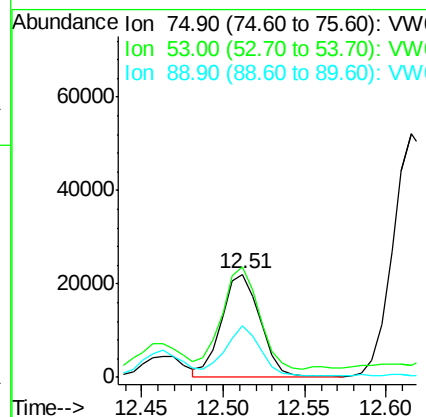
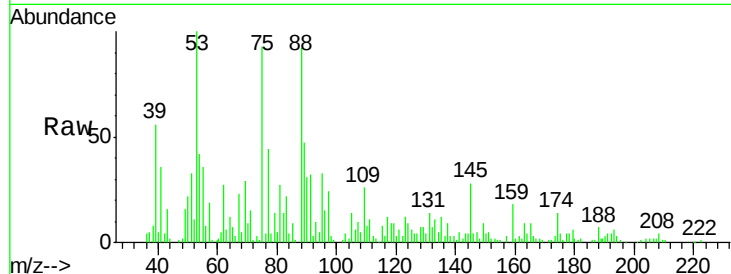
#81
trans-1,4-Dichloro-2-butene
Concen: 45.797 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	95.7	76.6	114.8
89	43.9	33.5	50.3

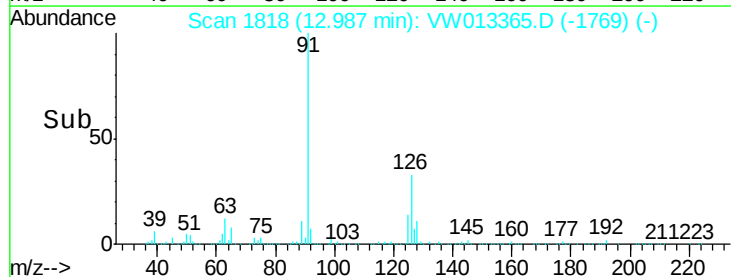
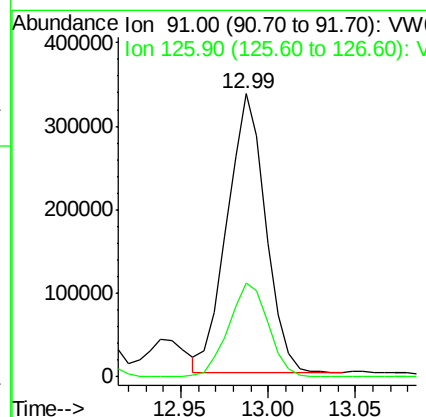
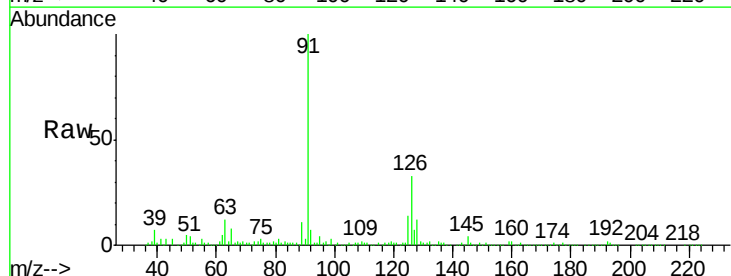
Manual Integrations
APPROVED

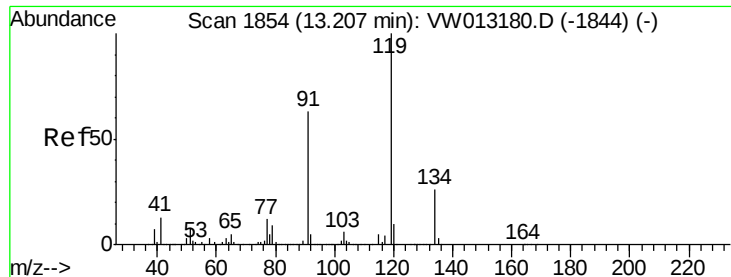
MMDadoda
10/1/2019 11:32:39 AM



#82
4-Chlorotoluene
Concen: 50.071 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.4	17.3	51.7





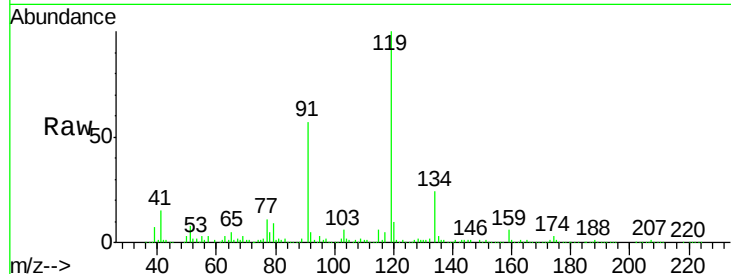
#83
tert-Butylbenzene
Concen: 54.789 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

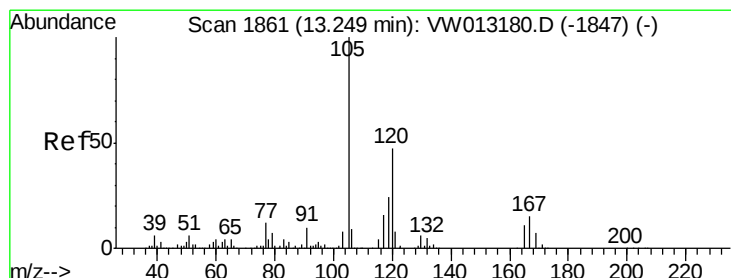
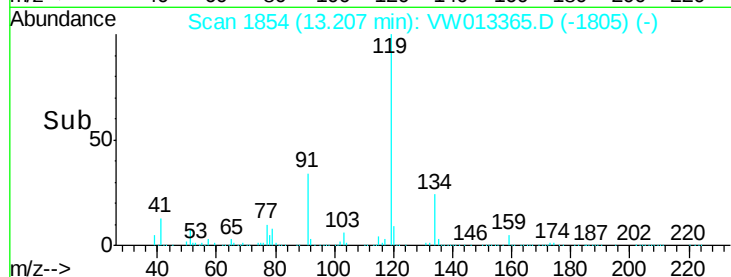
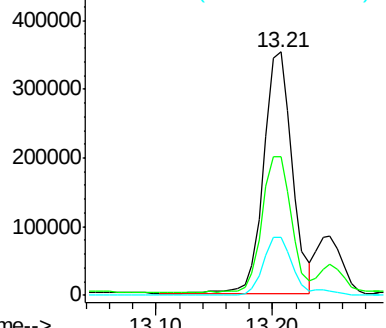
Tot Ion	Ratio	Lower	Upper
119	100		
91	57.9	30.7	92.1
134	25.5	12.6	37.6

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:32:39 AM

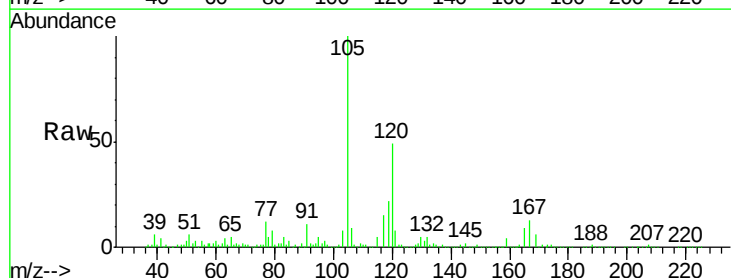


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

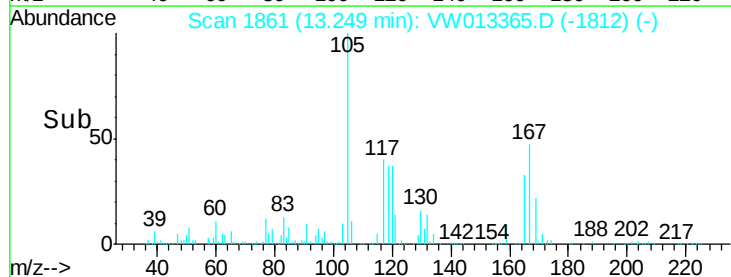
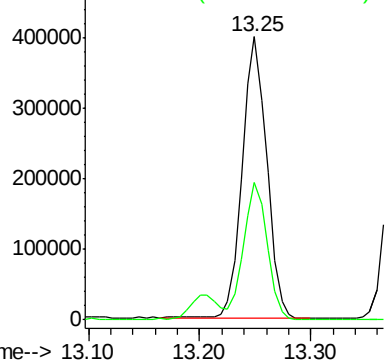


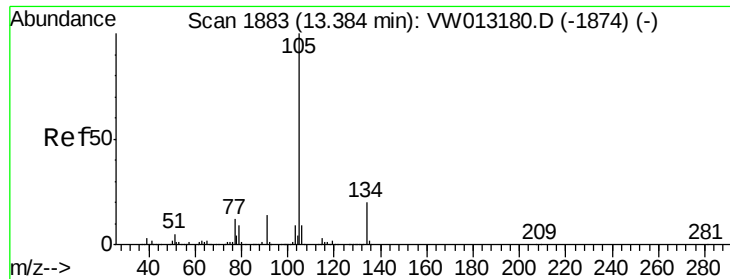
#84
1,2,4-Trimethylbenzene
Concen: 49.765 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.6	23.4	70.3



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 51.688 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Instrument :

MSVOA_W

ClientSampleId :

VSTDCCC050EC

Tot Ion:105 Resp: 771845

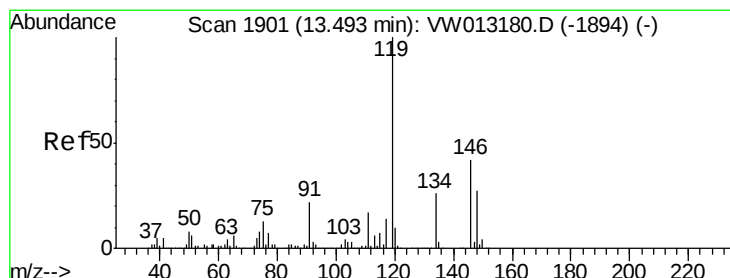
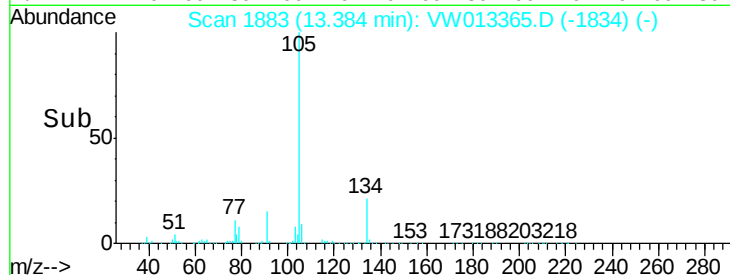
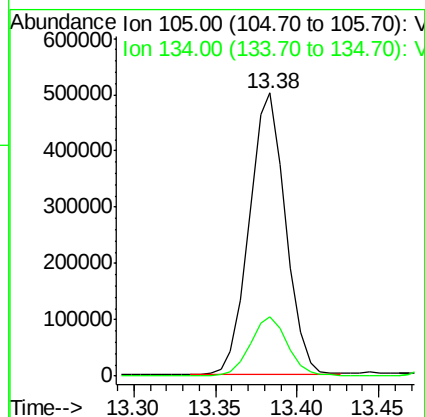
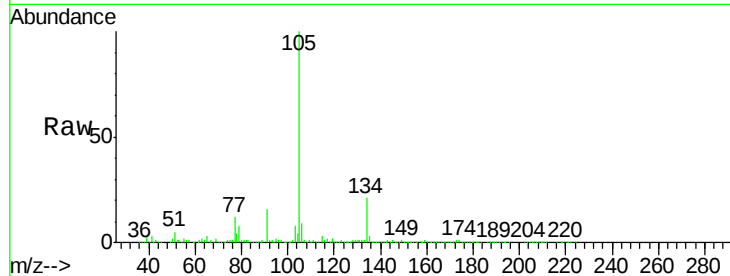
Ion Ratio Lower Upper

105 100

134 22.0 10.3 30.8

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:32:39 AM



#86

p-Isopropyltoluene

Concen: 51.706 ug/l

RT: 13.49 min Scan# 1901

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

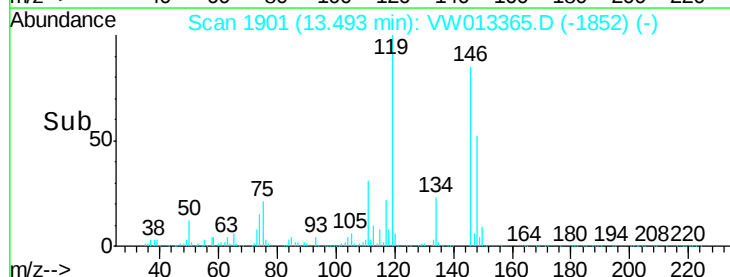
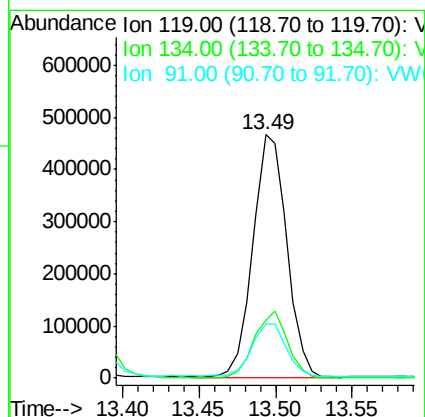
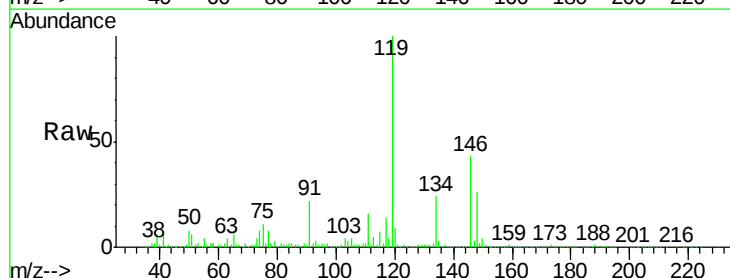
Tgt Ion:119 Resp: 716144

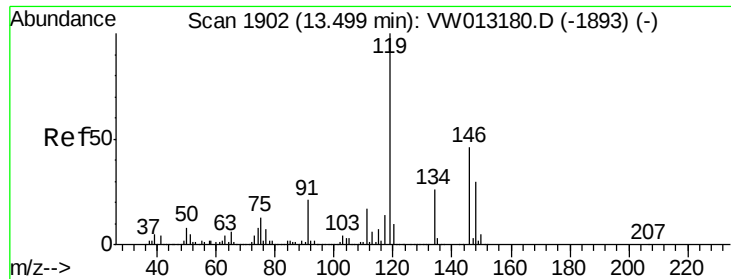
Ion Ratio Lower Upper

119 100

134 27.0 13.3 39.8

91 21.9 10.8 32.4





#87

1,3-Dichlorobenzene

Concen: 51.671 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

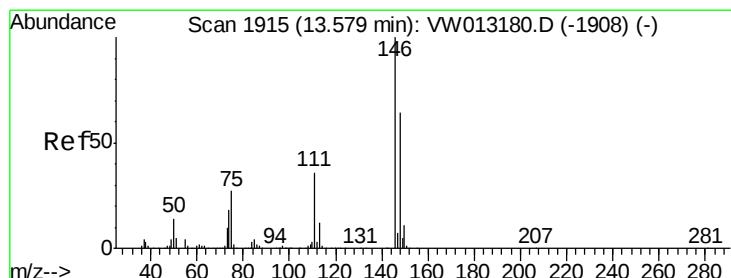
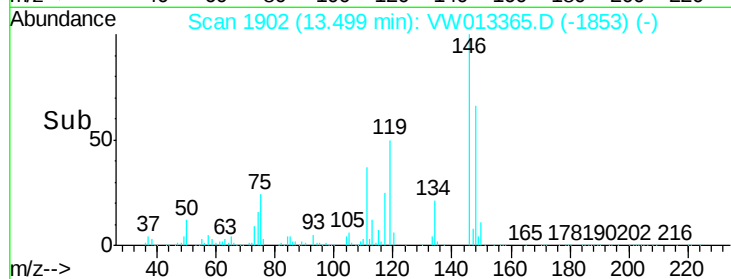
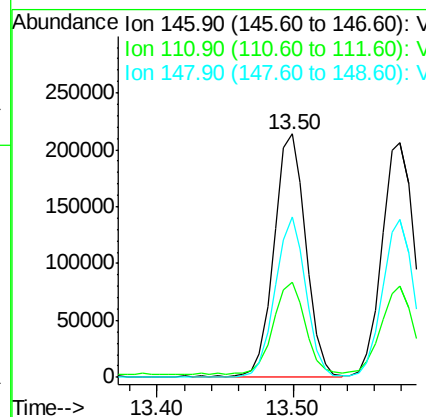
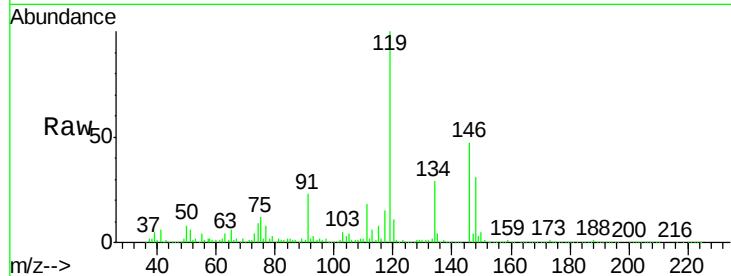
Instrument :
MSVOA_W

ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.9	56.9
148	63.6	31.9	95.5

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:32:39 AM



#88

1,4-Dichlorobenzene

Concen: 51.732 ug/l

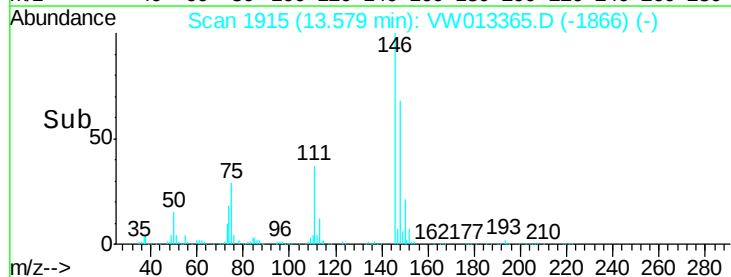
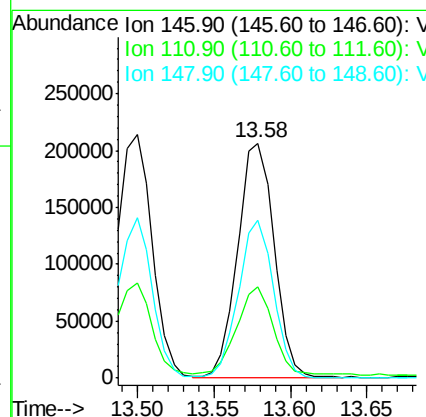
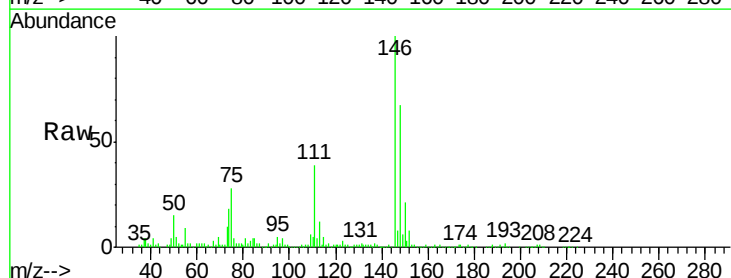
RT: 13.58 min Scan# 1915

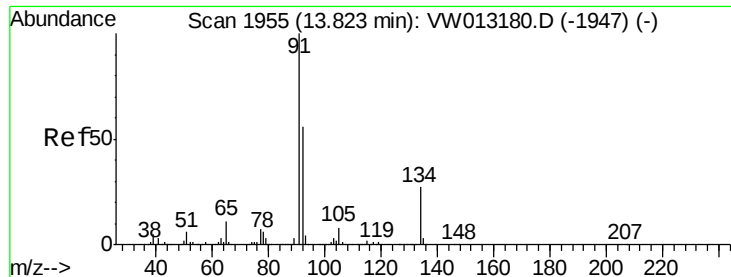
Delta R.T. 0.00 min

Lab File: VW013365.D

Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.3	18.4	55.0
148	66.0	32.1	96.3





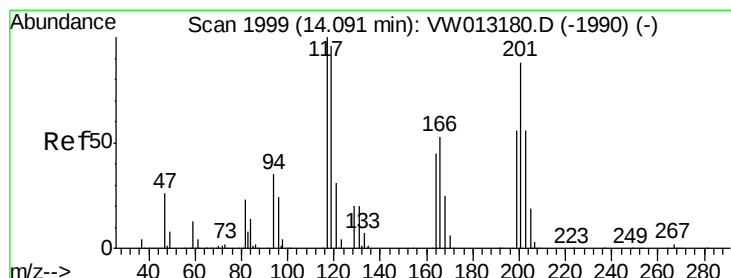
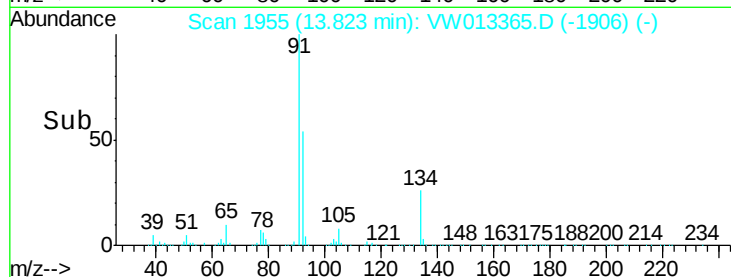
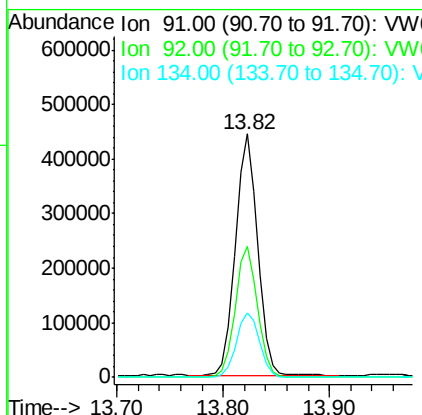
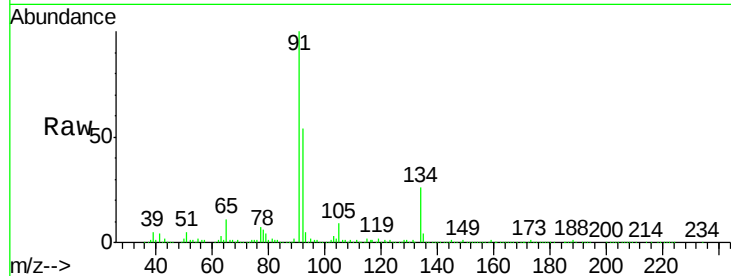
#89
n-Butylbenzene
Concen: 51.060 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
91	100		
92	54.1	27.6	82.8
134	27.5	13.7	41.1

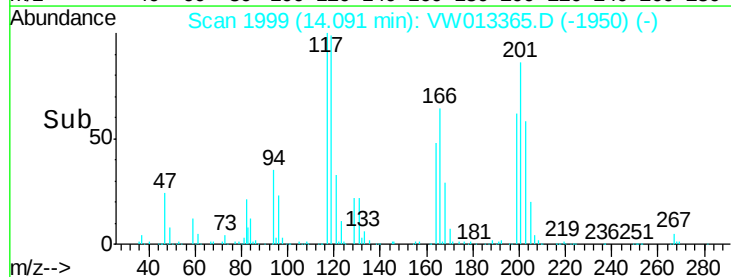
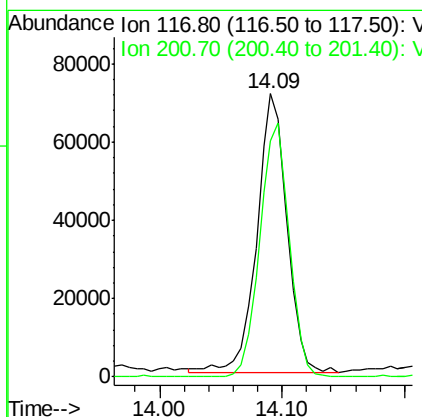
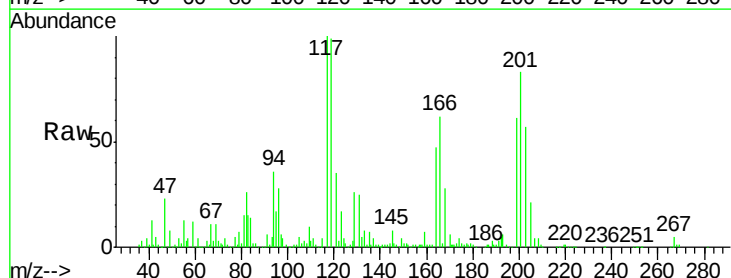
Manual Integrations
APPROVED

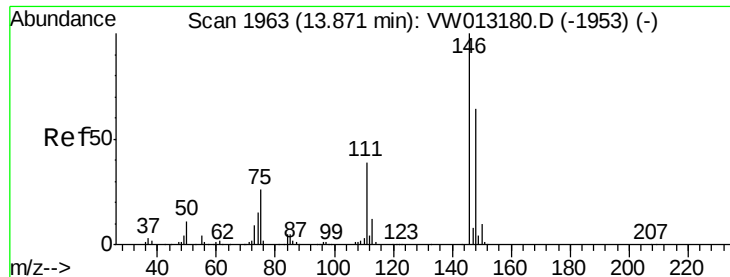
MMDadoda
10/1/2019 11:32:39 AM



#90
Hexachloroethane
Concen: 52.318 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.9	44.5	133.5





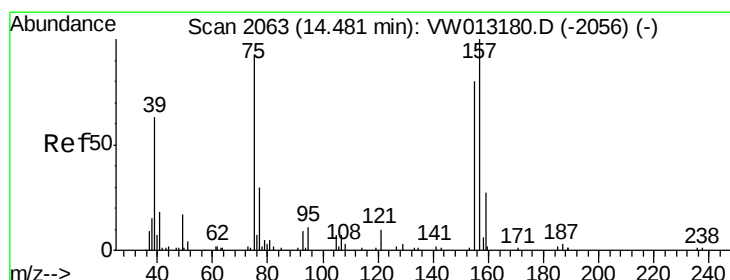
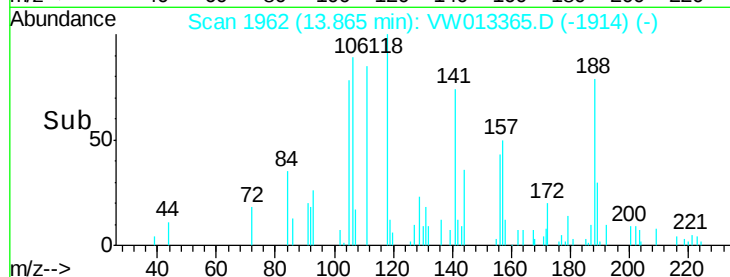
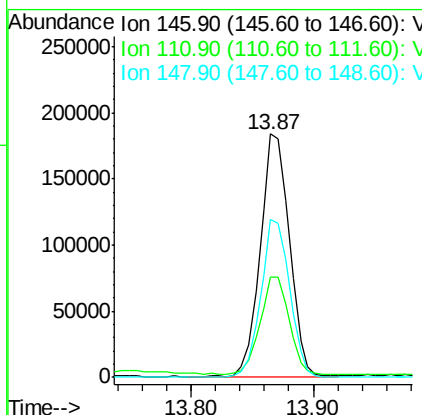
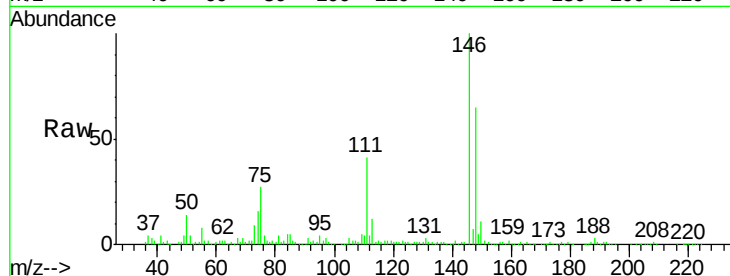
#91
 1,2-Dichlorobenzene
 Concen: 52.683 ug/l
 RT: 13.87 min Scan# 1962
 Delta R.T. -0.01 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	20.1	60.3
148	63.7	32.0	96.0

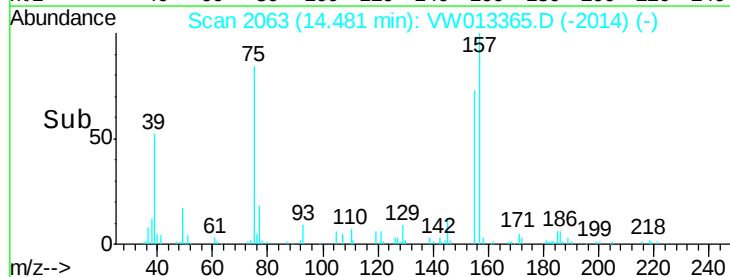
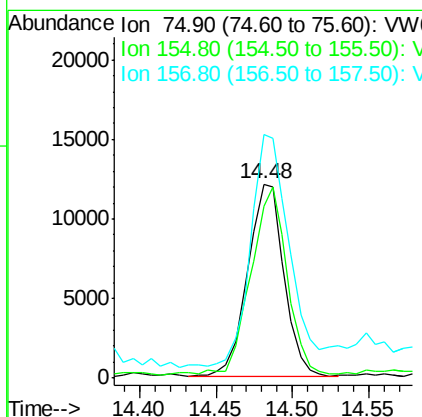
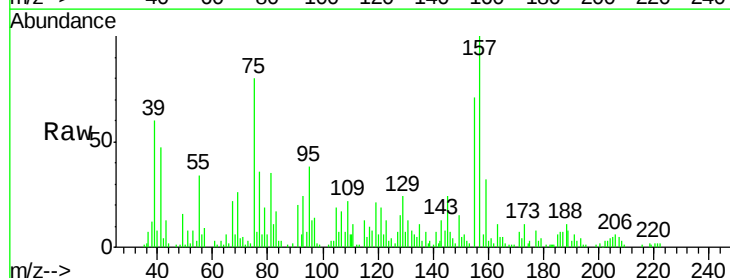
Manual Integrations
 APPROVED

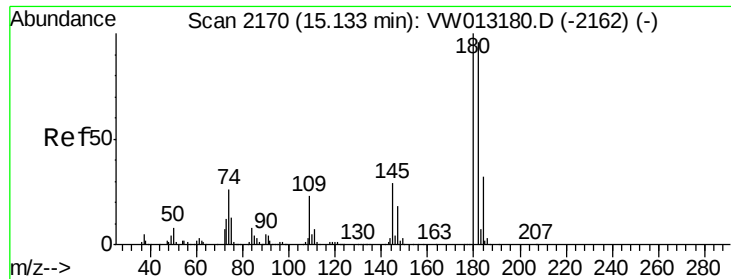
MMDadoda
 10/1/2019 11:32:39 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 52.654 ug/l
 RT: 14.48 min Scan# 2063
 Delta R.T. 0.00 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.4	46.1	138.3
157	129.2	60.4	181.2





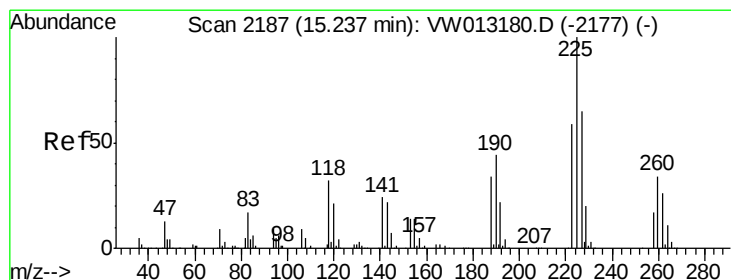
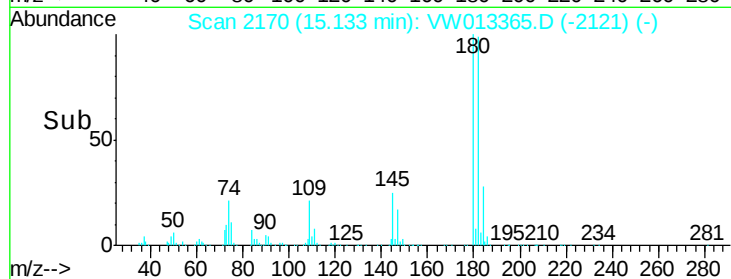
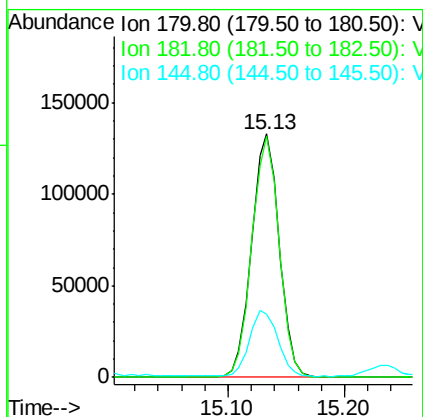
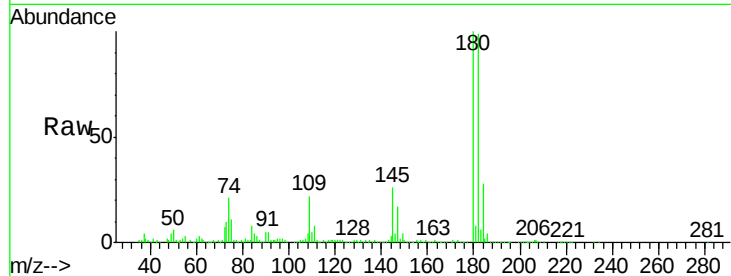
#93
 1,2,4-Trichlorobenzene
 Concen: 53.132 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. 0.00 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDCCC050EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	220528		
182	97.9	47.3	142.0	
145	27.8	14.2	42.8	

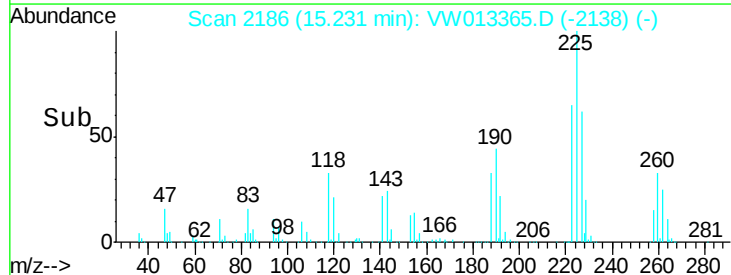
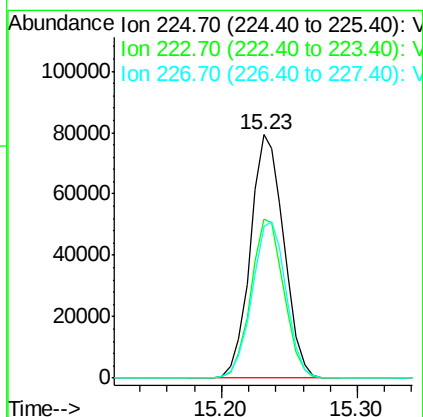
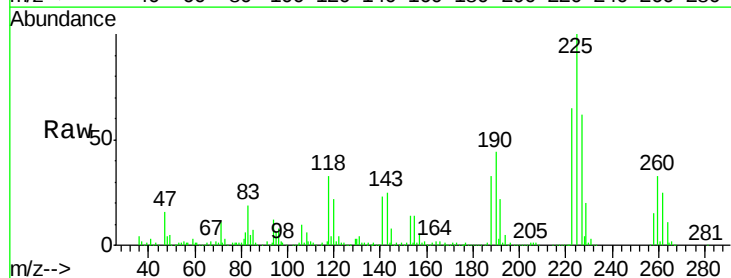
Manual Integrations
 APPROVED

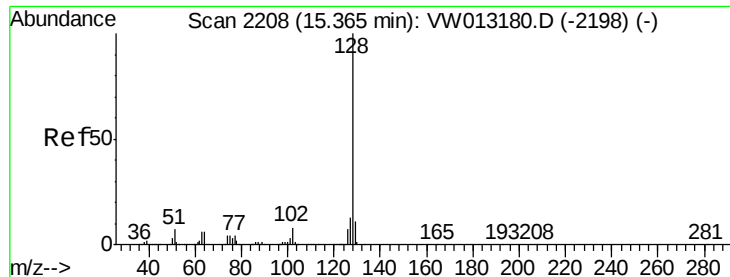
MMDadoda
 10/1/2019 11:32:39 AM



#94
 Hexachlorobutadiene
 Concen: 48.103 ug/l
 RT: 15.23 min Scan# 2186
 Delta R.T. -0.01 min
 Lab File: VW013365.D
 Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	136593		
223	64.2	30.6	91.8	
227	64.9	31.9	95.9	





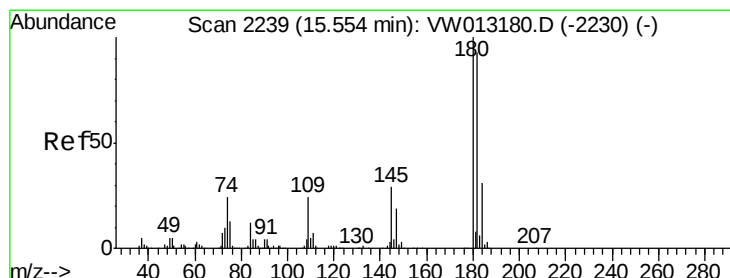
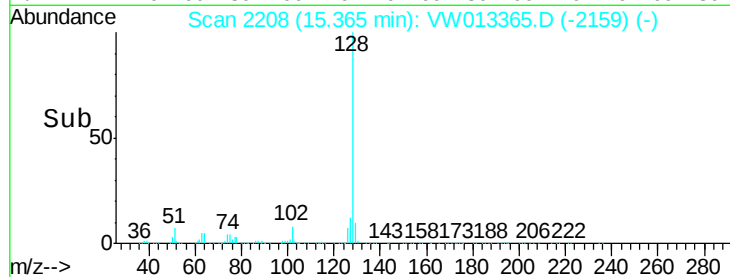
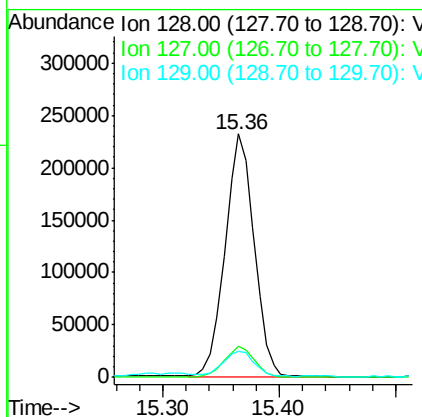
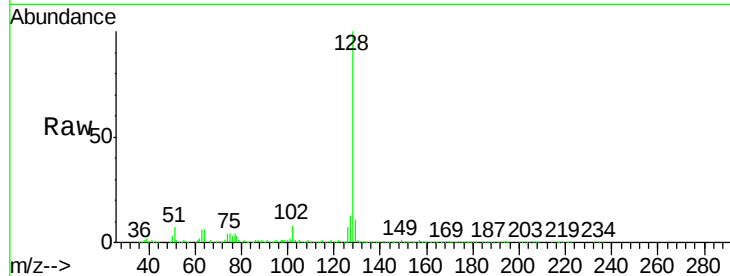
#95
Naphthalene
Concen: 58.950 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Instrument :
MSVOA_W
ClientSampleId :
VSTDCCC050EC

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.6	15.8
129	11.1	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
10/1/2019 11:32:39 AM



#96
1,2,3-Trichlorobenzene
Concen: 54.305 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. 0.00 min
Lab File: VW013365.D
Acq: 01 Oct 2019 06:50

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.1	47.9	143.7
145	30.2	15.0	45.0

