

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092019\
 Data File : VW013188.D
 Acq On : 20 Sep 2019 17:59
 Operator : SY/VA
 Sample : VW0920SBSD01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0920SBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/24/2019 5:28:55 AM

Quant Time: Sep 21 05:12:25 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	287033	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	398227	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	349748	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	179439	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.31	65	114792	49.00	ug/l	0.00
Spiked Amount			Recovery	=	98.00%	
35) Dibromofluoromethane	7.88	113	106917	48.81	ug/l	0.00
Spiked Amount			Recovery	=	97.62%	
50) Toluene-d8	10.32	98	450699	49.17	ug/l	0.00
Spiked Amount			Recovery	=	98.34%	
62) 4-Bromofluorobenzene	12.62	95	154263	49.27	ug/l	0.00
Spiked Amount			Recovery	=	98.54%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	2.01	85	36348	21.953	ug/l	98
3) Chloromethane	2.21	50	43441	20.410	ug/l	100
4) Vinyl Chloride	2.36	62	57217	20.852	ug/l	99
5) Bromomethane	2.76	94	34547	19.868	ug/l	85
6) Chloroethane	2.91	64	32307	19.975	ug/l	97
7) Trichlorofluoromethane	3.25	101	29290	18.512	ug/l	96
8) Diethyl Ether	3.68	74	28299	20.940	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	4.06	101	53145	20.631	ug/l	99
10) Methyl Iodide	4.27	142	76296	19.104	ug/l	100
11) Tert butyl alcohol	5.18	59	30257	176.448	ug/l	96
12) 1,1-Dichloroethene	4.04	96	54110	20.285	ug/l	97
13) Acrolein	3.90	56	16988	125.974	ug/l	95
14) Allyl chloride	4.66	41	83140	19.584	ug/l	99
15) Acrylonitrile	5.37	53	75787	129.925	ug/l	97
16) Acetone	4.13	43	67947	128.618	ug/l	97
17) Carbon Disulfide	4.38	76	152715	19.808	ug/l	99
18) Methyl Acetate	4.67	43	40124	27.020	ug/l	98
19) Methyl tert-butyl Ether	5.42	73	88345	21.610	ug/l	96
20) Methylene Chloride	4.91	84	59650	20.356	ug/l	97
21) trans-1,2-Dichloroethene	5.42	96	57074	19.797	ug/l	99
22) Diisopropyl ether	6.31	45	163262	20.224	ug/l	95
23) Vinyl Acetate	6.25	43	540369	112.832	ug/l	100
24) 1,1-Dichloroethane	6.21	63	95707	19.647	ug/l	99
25) 2-Butanone	7.17	43	109445	138.007	ug/l	97
26) 2,2-Dichloropropane	7.16	77	64134	20.005	ug/l	100
27) cis-1,2-Dichloroethene	7.17	96	59206	19.459	ug/l	95
28) Bromochloromethane	7.51	49	33281	17.801	ug/l	98
29) Tetrahydrofuran	7.53	42	66761	137.270	ug/l	99
30) Chloroform	7.67	83	92255	19.344	ug/l	100
31) Cyclohexane	7.95	56	105071	20.692	ug/l	98
32) 1,1,1-Trichloroethane	7.87	97	77056	19.949	ug/l	100
36) 1,1-Dichloropropene	8.08	75	82061	21.275	ug/l	99
37) Ethyl Acetate	7.26	43	43229	26.371	ug/l	97
38) Carbon Tetrachloride	8.06	117	72531	20.977	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW092019\
 Data File : VW013188.D
 Acq On : 20 Sep 2019 17:59
 Operator : SY/VA
 Sample : VW0920SBSD01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0920SBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/24/2019 5:28:55 AM

Quant Time: Sep 21 05:12:25 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	9.33	83	106806	21.547	ug/l	96
40) Benzene	8.32	78	226090	21.015	ug/l	99
41) Methacrylonitrile	7.48	41	25323	25.883	ug/l	95
42) 1,2-Dichloroethane	8.40	62	62895	21.747	ug/l	99
43) Isopropyl Acetate	8.42	43	79786	25.395	ug/l	97
44) Trichloroethene	9.09	130	62357	20.658	ug/l	99
45) 1,2-Dichloropropane	9.37	63	53383	20.324	ug/l	99
46) Dibromomethane	9.46	93	28371	22.248	ug/l	98
47) Bromodichloromethane	9.64	83	65751	20.263	ug/l	97
48) Methyl methacrylate	9.43	41	36114	24.445	ug/l	97
49) 1,4-Dioxane	9.46	88	12106	632.433	ug/l #	91
51) 4-Methyl-2-Pentanone	10.21	43	215340	136.718	ug/l	99
52) Toluene	10.38	92	144833	21.005	ug/l	99
53) t-1,3-Dichloropropene	10.60	75	71176	21.350	ug/l	96
54) cis-1,3-Dichloropropene	10.07	75	84978	20.965	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	43010	22.565	ug/l	95
56) Ethyl methacrylate	10.65	69	60580	24.285	ug/l	99
57) 1,3-Dichloropropane	10.93	76	75287	22.635	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	138281	119.743	ug/l	100
59) 2-Hexanone	10.97	43	153764	141.896	ug/l	99
60) Dibromochloromethane	11.13	129	46407	21.442	ug/l	100
61) 1,2-Dibromoethane	11.23	107	41933	23.139	ug/l	99
64) Tetrachloroethene	10.86	164	55366	20.864	ug/l	97
65) Chlorobenzene	11.65	112	149211	20.430	ug/l	92
66) 1,1,1,2-Tetrachloroethane	11.73	131	50989	20.436	ug/l	97
67) Ethyl Benzene	11.73	91	272643	20.603	ug/l	97
68) m/p-Xylenes	11.83	106	209338	41.514	ug/l	99
69) o-Xylene	12.16	106	95129	20.291	ug/l	100
70) Styrene	12.18	104	162862	20.234	ug/l	99
71) Bromoform	12.35	173	29993	22.754	ug/l #	96
73) Isopropylbenzene	12.46	105	273322	20.620	ug/l	99
74) N-amyl acetate	12.27	43	70525	23.977	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	53571	24.165	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	33941m	21.418	ug/l	
77) Bromobenzene	12.74	156	65196	20.756	ug/l	97
78) n-propylbenzene	12.80	91	321708	20.734	ug/l	99
79) 2-Chlorotoluene	12.89	91	178971	20.589	ug/l	98
80) 1,3,5-Trimethylbenzene	12.94	105	229259	20.575	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.51	75	17098	24.211	ug/l	99
82) 4-Chlorotoluene	12.99	91	186697	20.367	ug/l	99
83) tert-Butylbenzene	13.21	119	201220	20.575	ug/l	97
84) 1,2,4-Trimethylbenzene	13.25	105	228435	20.602	ug/l	99
85) sec-Butylbenzene	13.38	105	282389	20.944	ug/l	100
86) p-Isopropyltoluene	13.49	119	258069	20.636	ug/l	100
87) 1,3-Dichlorobenzene	13.50	146	122895	20.329	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	122512	20.663	ug/l	98
89) n-Butylbenzene	13.82	91	237365	20.787	ug/l	100
90) Hexachloroethane	14.09	117	40330	19.197	ug/l	96
91) 1,2-Dichlorobenzene	13.87	146	111478	21.315	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	14.49	75	8995	26.528	ug/l	97

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW092019\
Data File : VW013188.D
Acq On : 20 Sep 2019 17:59
Operator : SY/VA
Sample : VW0920SBSD01
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 14 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBSD01

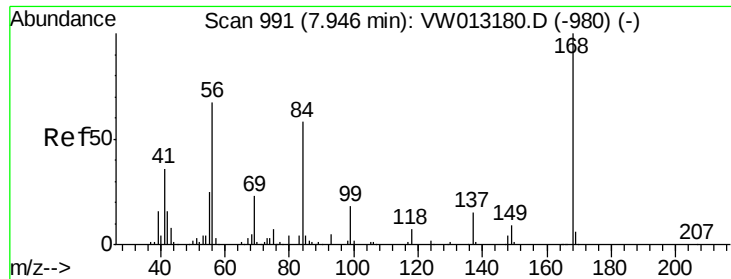
Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:28:55 AM

Quant Time: Sep 21 05:12:25 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

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	78174	20.859	ug/l	98
94) Hexachlorobutadiene	15.24	225	52148	20.339	ug/l	98
95) Naphthalene	15.36	128	148186	24.176	ug/l	99
96) 1,2,3-Trichlorobenzene	15.55	180	69225	21.377	ug/l	99

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



#1

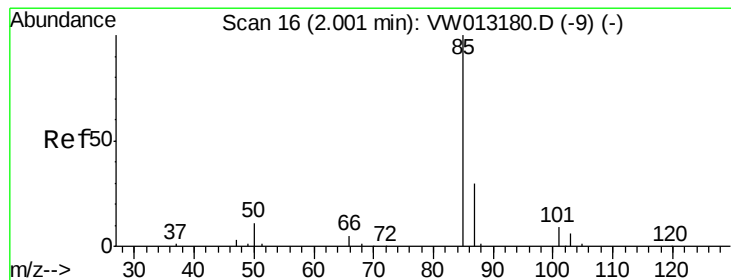
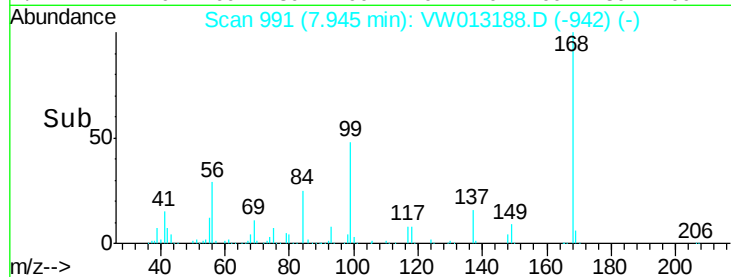
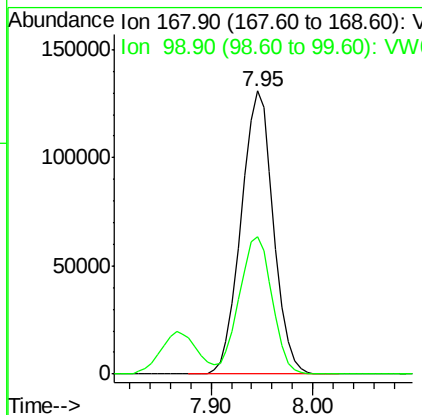
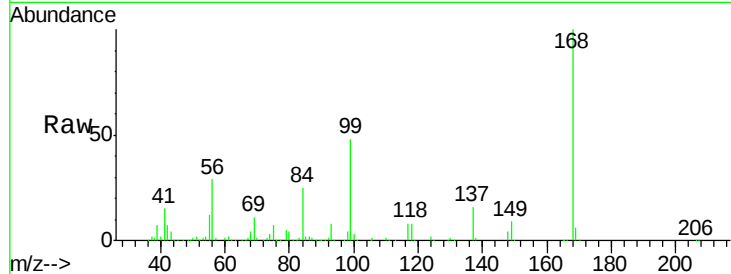
Pentafluorobenzene
 Concen: 50.000 ug/l
 RT: 7.95 min Scan# 991
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0920SBSD01

Tot Ion	Ion	Ratio	Lower	Upper
168	100			
99	48.4	40.2	60.4	

Manual Integrations
 APPROVED

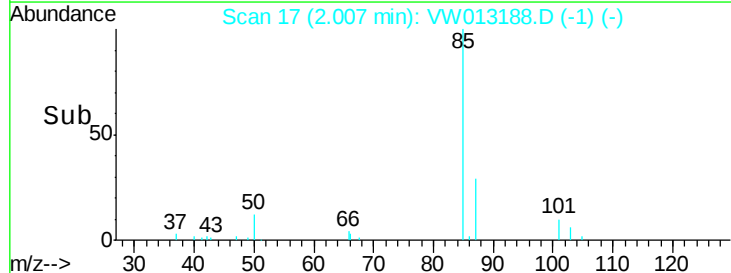
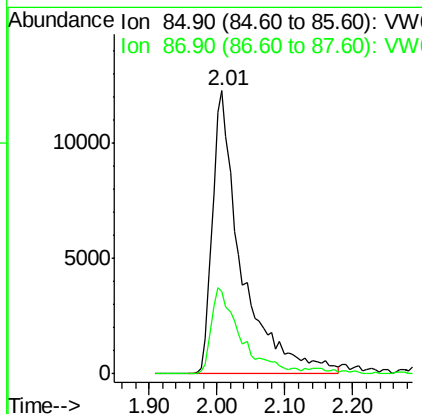
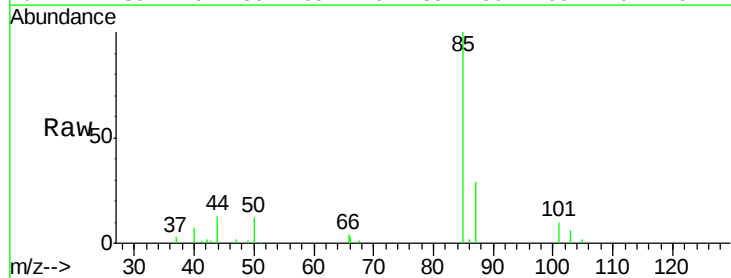
MMDadoda
 9/24/2019 5:28:55 AM

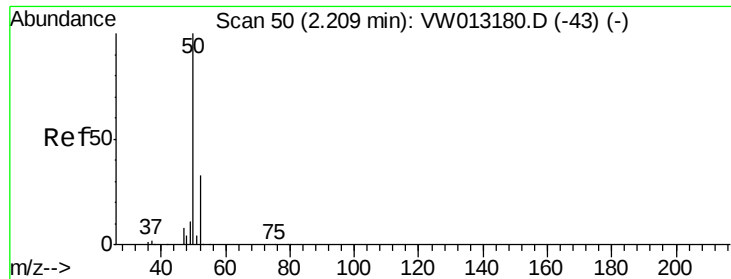


#2

Dichlorodifluoromethane
 Concen: 21.953 ug/l
 RT: 2.01 min Scan# 17
 Delta R.T. 0.01 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Tgt Ion	Ion	Ratio	Lower	Upper
85	100			
87	29.1	15.1	45.3	





#3

Chloromethane

Concen: 20.410 ug/l

RT: 2.21 min Scan# 50

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBS01

Tot Ion: 50 Resp: 43441

Ion Ratio Lower Upper

50 100

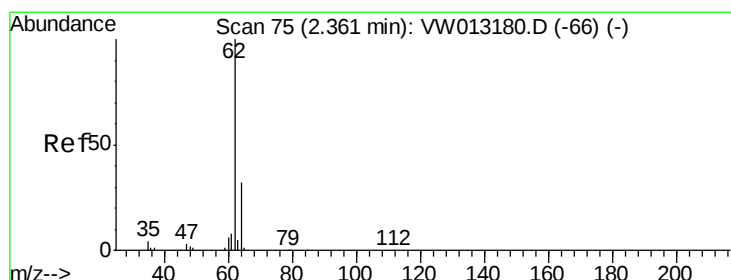
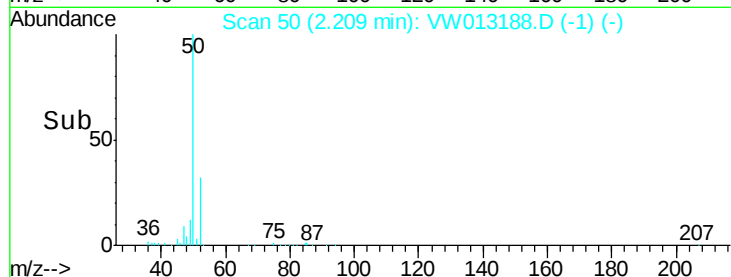
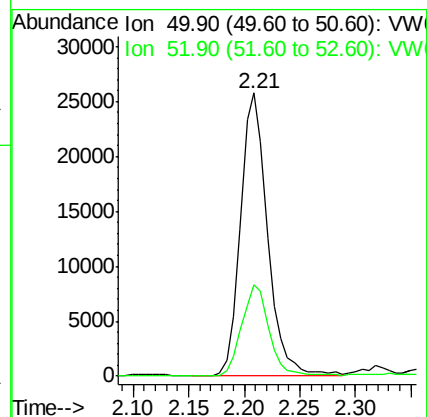
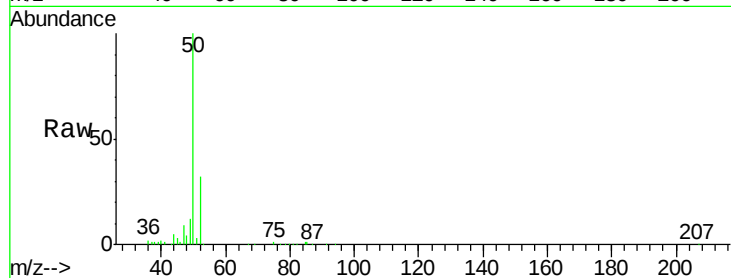
52 32.5 26.1 39.1

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:28:55 AM



#4

Vinyl Chloride

Concen: 20.852 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.00 min

Lab File: VW013188.D

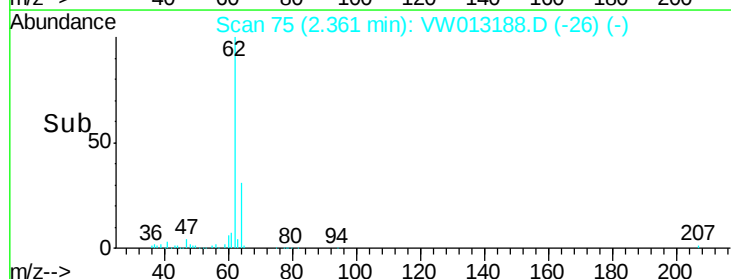
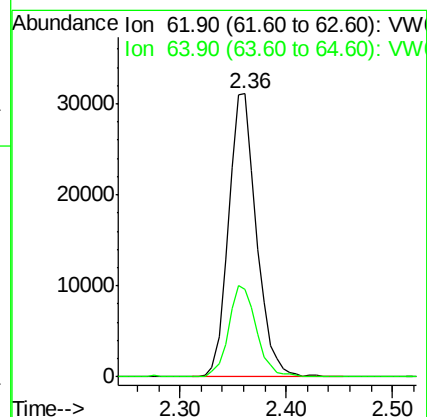
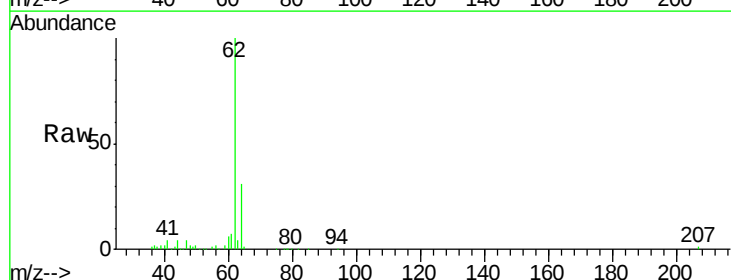
Acq: 20 Sep 2019 17:59

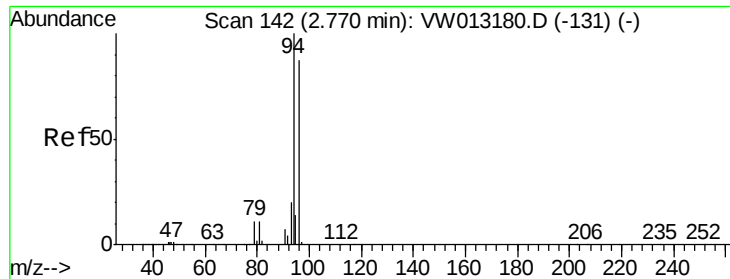
Tgt Ion: 62 Resp: 57217

Ion Ratio Lower Upper

62 100

64 31.1 25.3 37.9





#5

Bromomethane

Concen: 19.868 ug/l

RT: 2.76 min Scan# 141

Delta R.T. -0.01 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBSD01

Tot Ion: 94 Resp: 34547

Ion Ratio Lower Upper

94 100

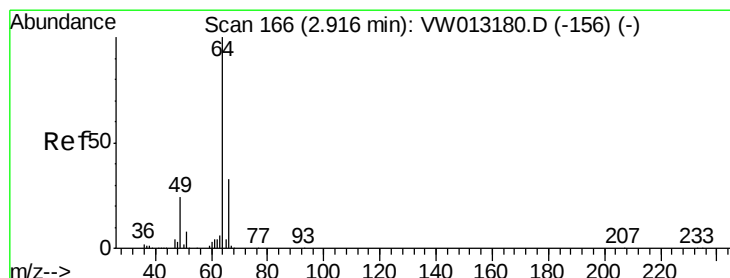
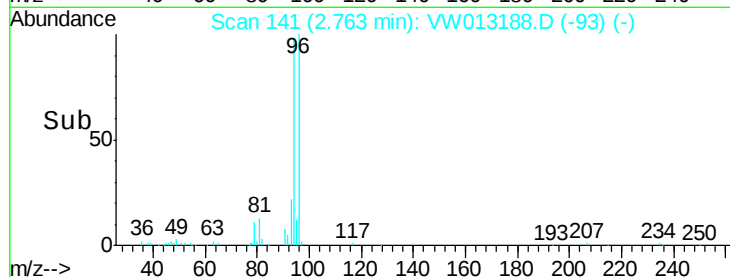
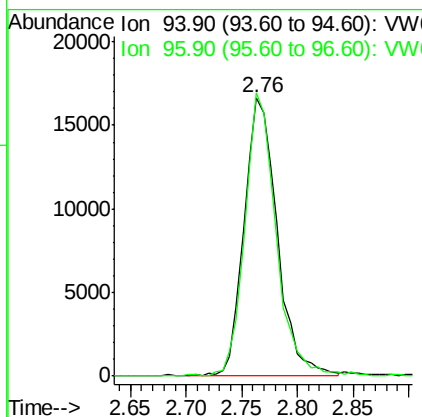
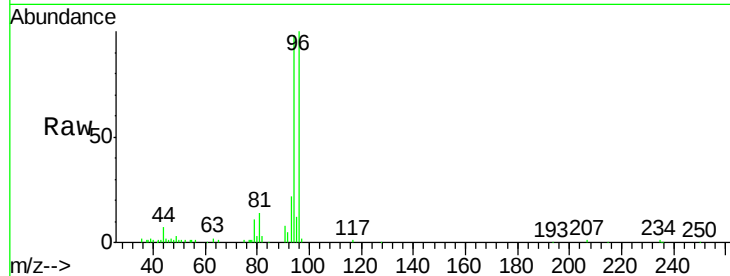
96 100.9 69.7 104.5

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:28:55 AM



#6

Chloroethane

Concen: 19.975 ug/l

RT: 2.91 min Scan# 165

Delta R.T. -0.01 min

Lab File: VW013188.D

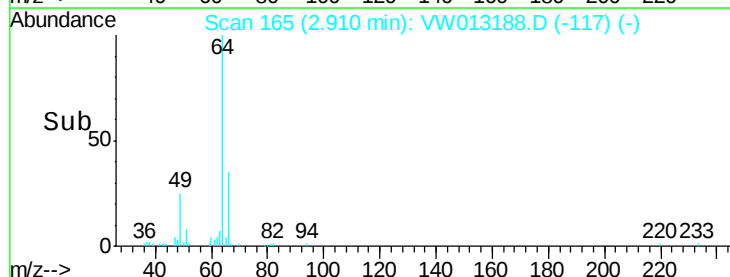
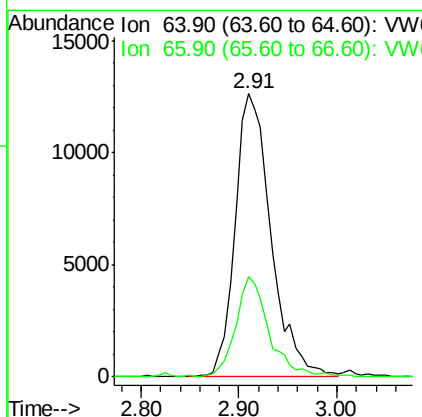
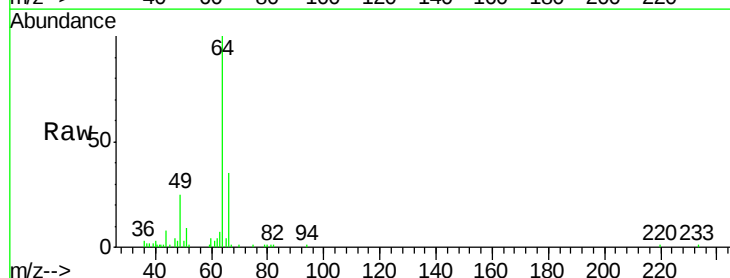
Acq: 20 Sep 2019 17:59

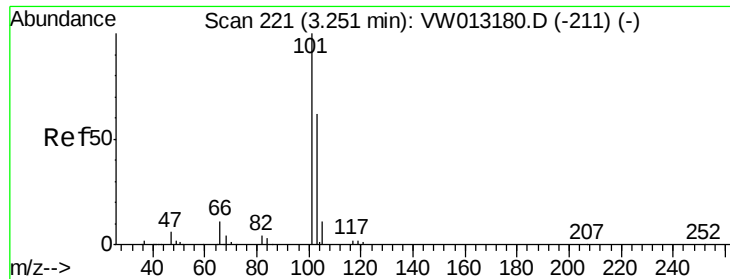
Tgt Ion: 64 Resp: 32307

Ion Ratio Lower Upper

64 100

66 34.6 26.6 39.8





#7

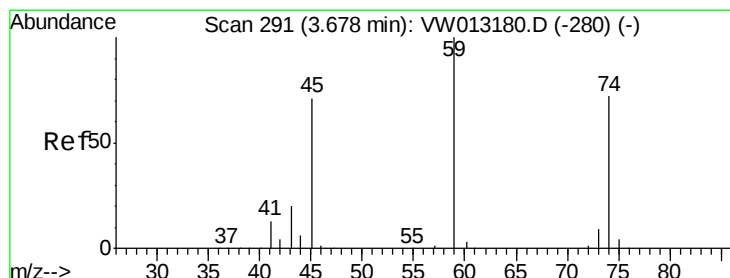
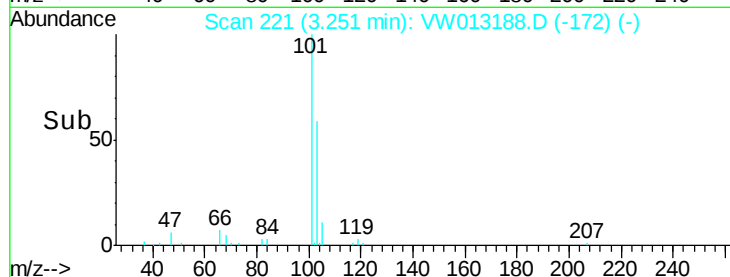
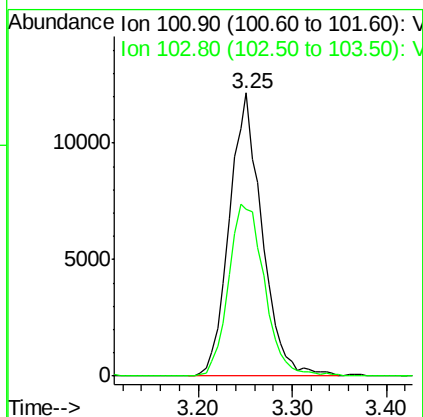
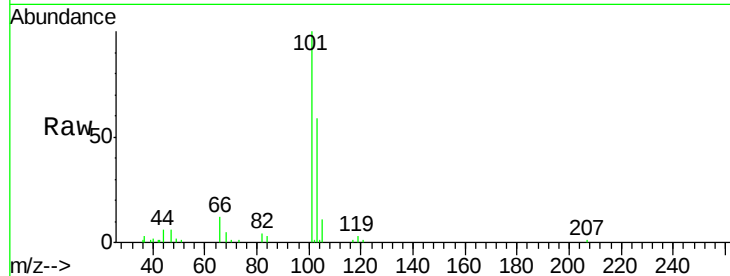
Trichlorofluoromethane
 Concen: 18.512 ug/l
 RT: 3.25 min Scan# 221
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0920SBSD01

Tot Ion	Ratio	Lower	Upper
101	100		
103	59.0	49.7	74.5

Manual Integrations
 APPROVED

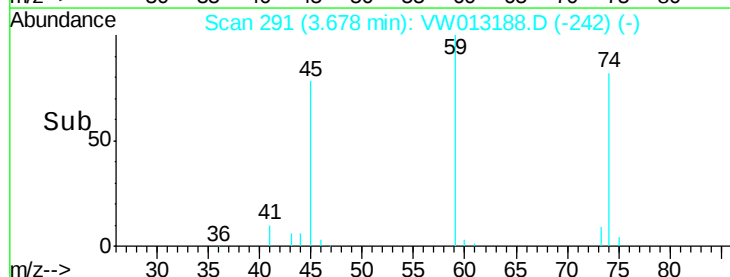
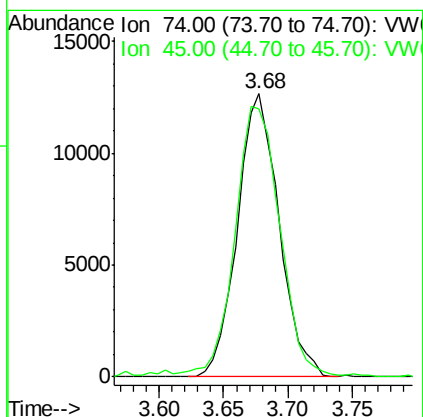
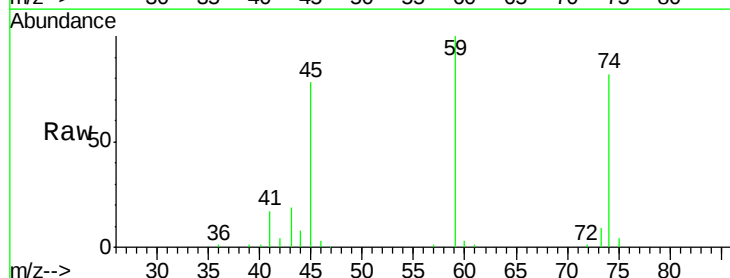
MMDadoda
 9/24/2019 5:28:55 AM

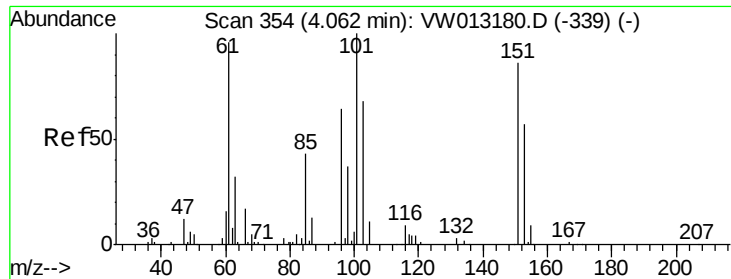


#8

Diethyl Ether
 Concen: 20.940 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Lower	Upper
74	100		
45	102.0	49.5	148.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.631 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

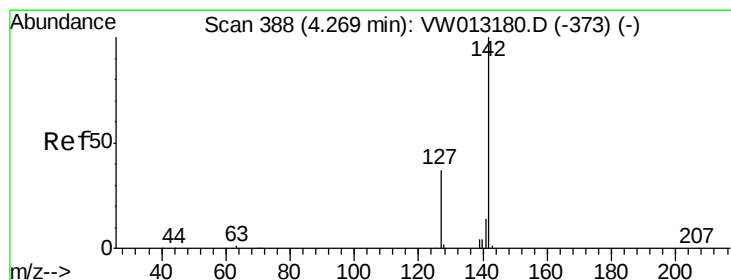
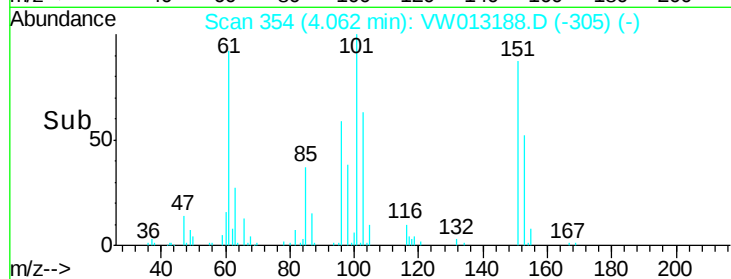
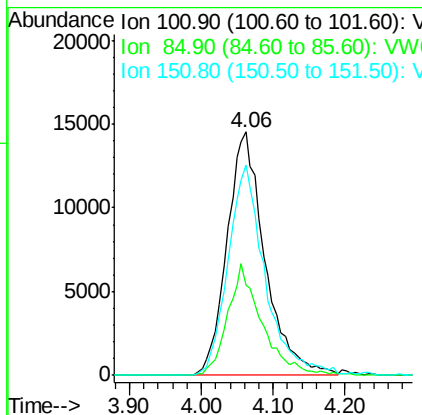
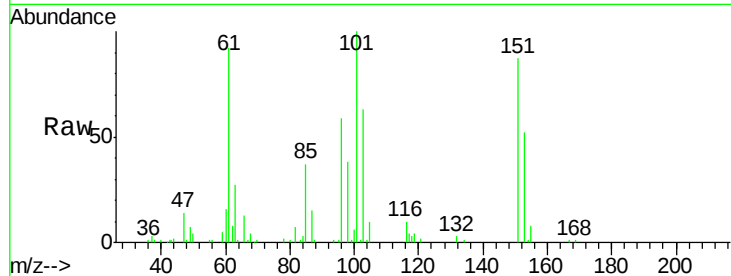
ClientSampleId :

VW0920SBSD01

Tot Ion:	101	Resp:	53145
Ion Ratio	Lower	Upper	
101	100		
85	40.7	33.4	50.0
151	84.6	66.9	100.3

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:28:55 AM



#10

Methyl Iodide

Concen: 19.104 ug/l

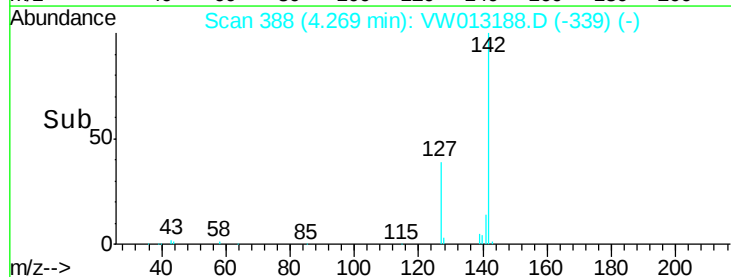
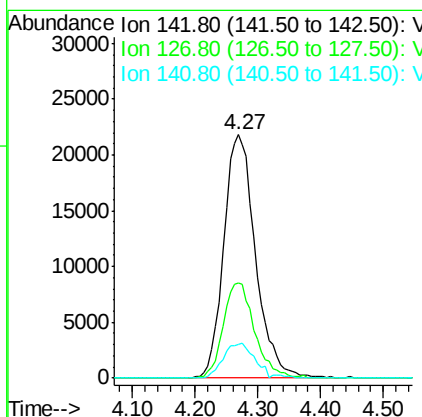
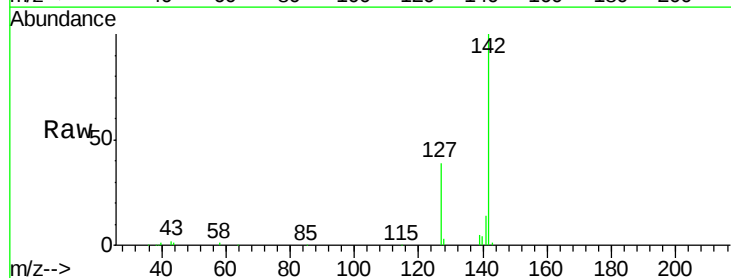
RT: 4.27 min Scan# 388

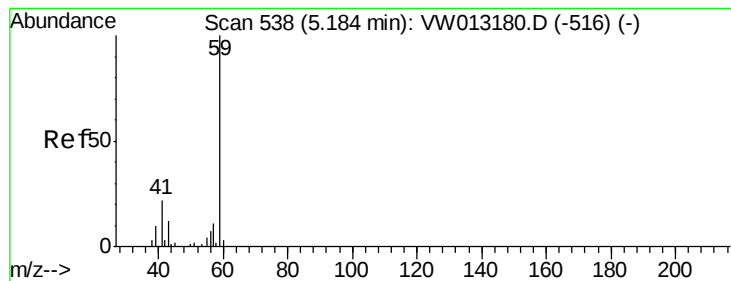
Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Tgt Ion:	142	Resp:	76296
Ion Ratio	Lower	Upper	
142	100		
127	38.6	30.9	46.3
141	14.2	11.7	17.5





#11

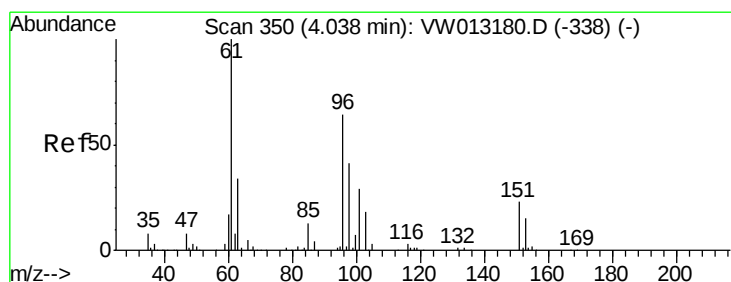
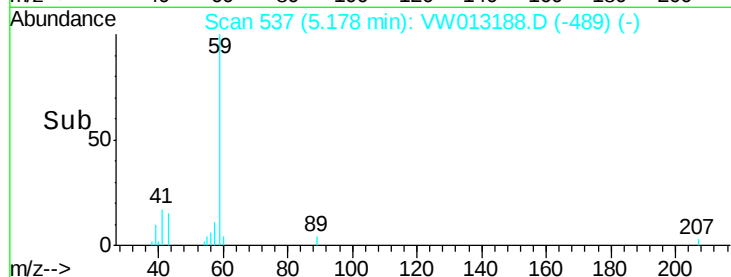
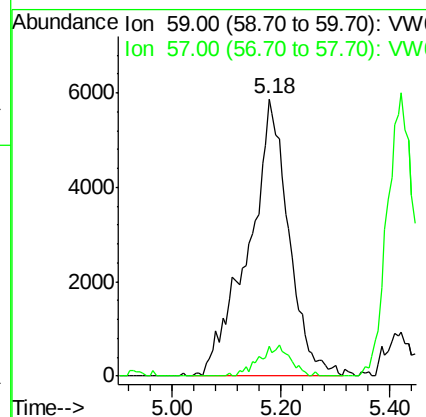
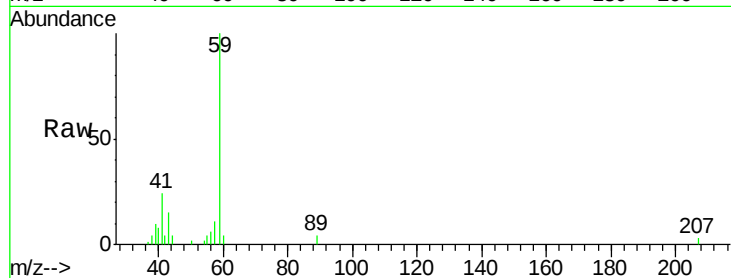
Tert butyl alcohol
 Concen: 176.448 ug/l
 RT: 5.18 min Scan# 537
 Delta R.T. -0.01 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
59	100	30257		
57	8.6		8.2	12.2

Manual Integrations
 APPROVED

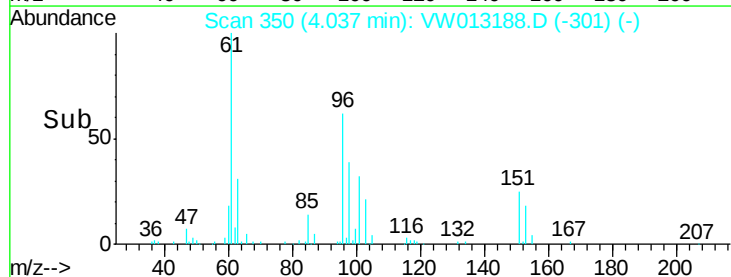
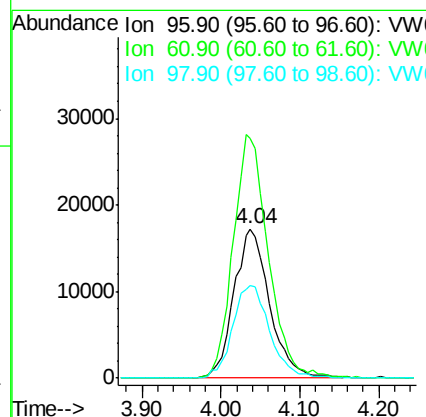
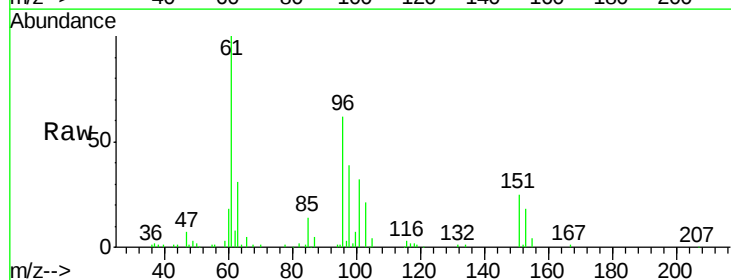
MMDadoda
 9/24/2019 5:28:55 AM

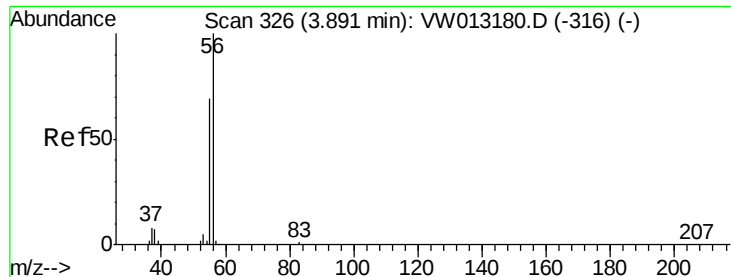


#12

1,1-Dichloroethene
 Concen: 20.285 ug/l
 RT: 4.04 min Scan# 350
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	54110		
61	160.9		125.1	187.7
98	62.1		50.8	76.2





#13

Acrolein

Concen: 125.974 ug/l

RT: 3.90 min Scan# 327

Delta R.T. 0.01 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBS01

Tot Ion: 56 Resp: 16988

Ion Ratio Lower Upper

56 100

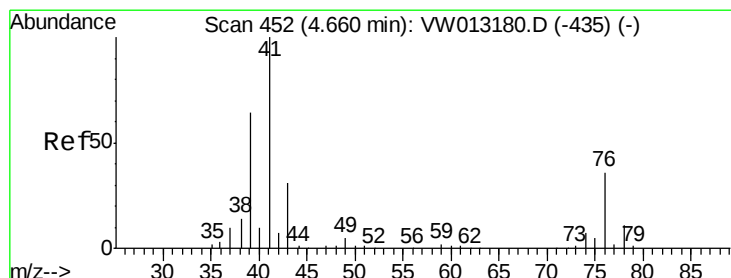
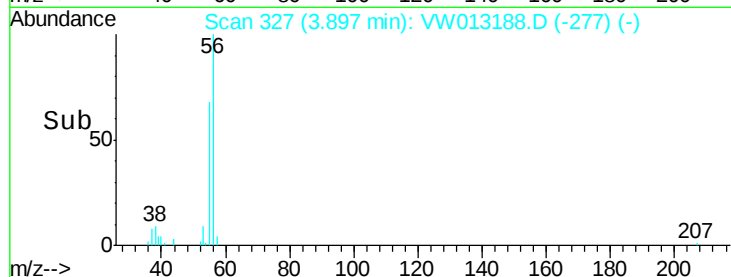
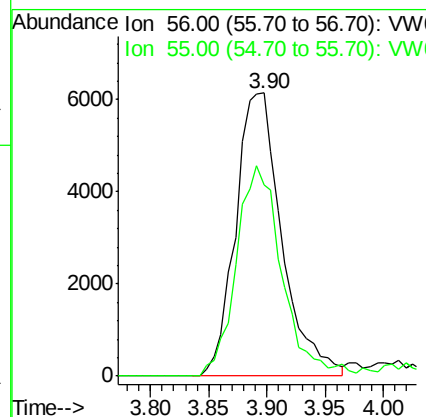
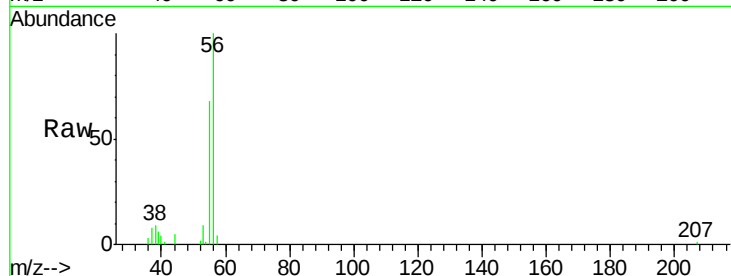
55 73.4 55.4 83.0

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:28:55 AM



#14

Allyl chloride

Concen: 19.584 ug/l

RT: 4.66 min Scan# 452

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

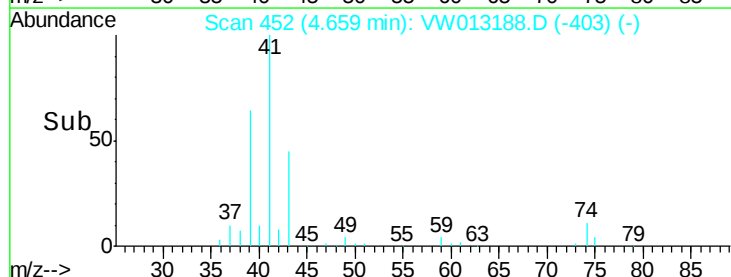
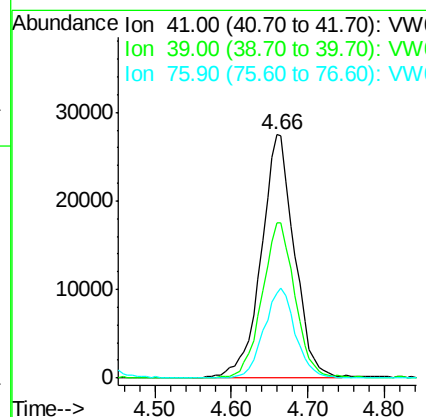
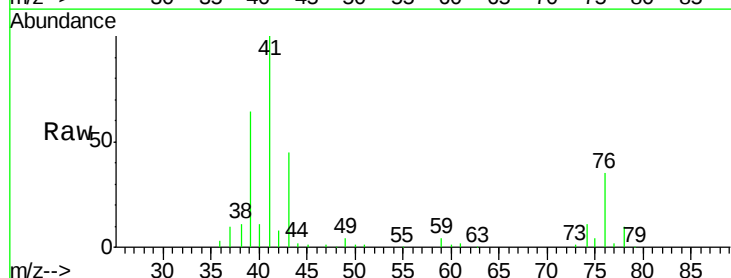
Tgt Ion: 41 Resp: 83140

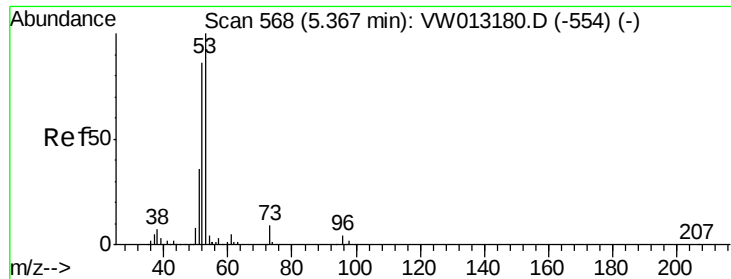
Ion Ratio Lower Upper

41 100

39 63.1 51.0 76.4

76 34.8 28.4 42.6





#15

Acrylonitrile

Concen: 129.925 ug/l

RT: 5.37 min Scan# 568

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

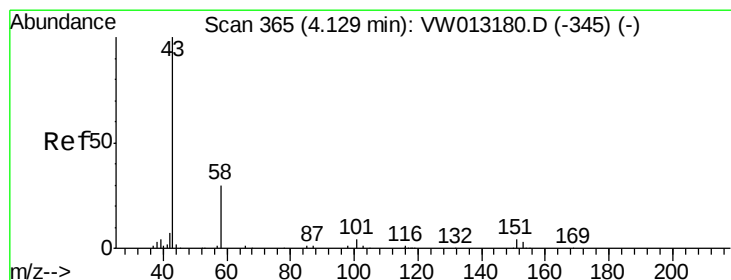
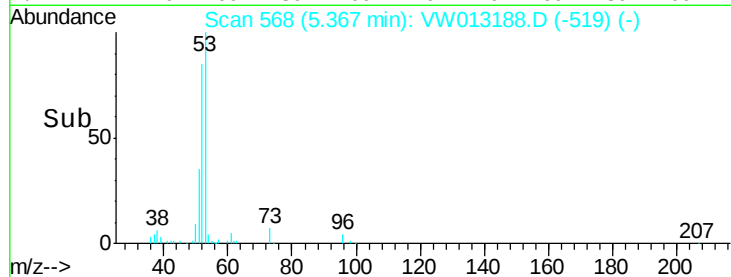
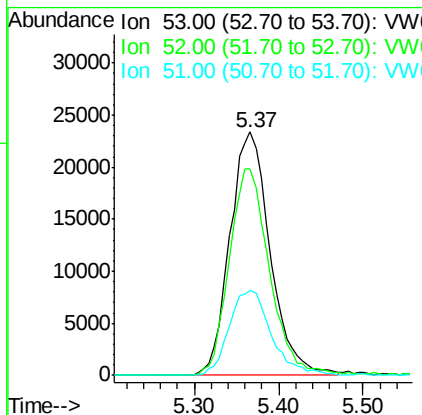
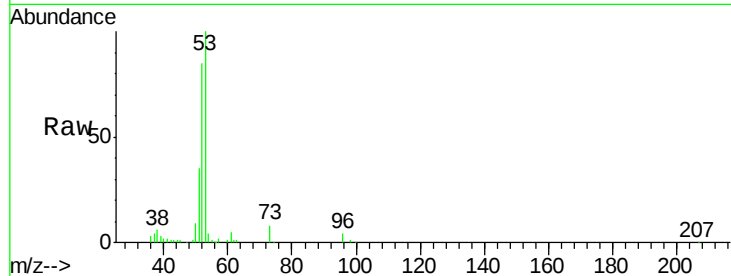
ClientSampleId :

VW0920SBS01

Tot Ion:	53	Resp:	75787
Ion Ratio	Lower	Upper	
53	100		
52	84.9	65.3	97.9
51	36.7	29.0	43.4

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:28:55 AM



#16

Acetone

Concen: 128.618 ug/l

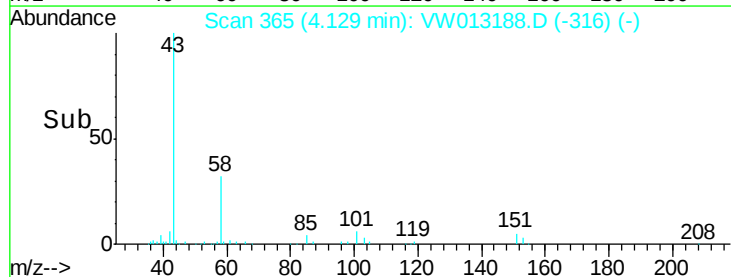
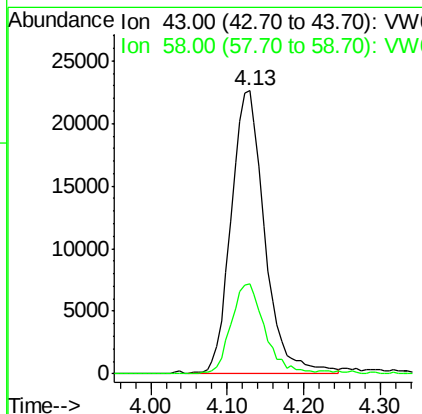
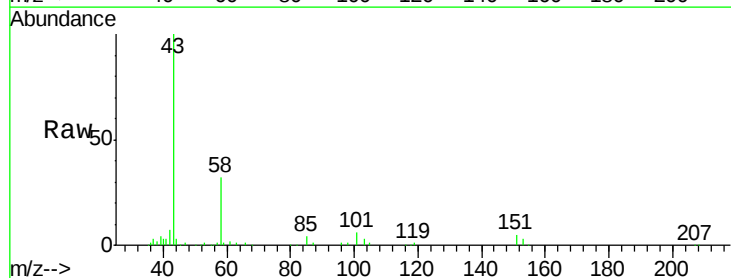
RT: 4.13 min Scan# 365

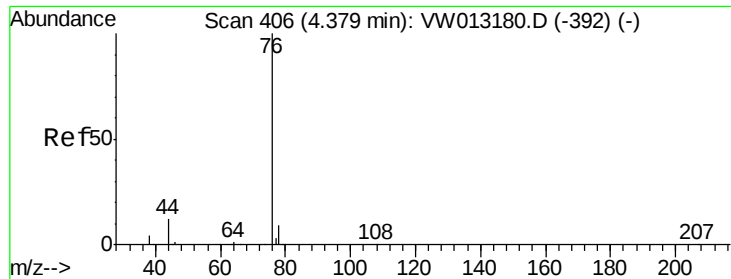
Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Tgt Ion:	43	Resp:	67947
Ion Ratio	Lower	Upper	
43	100		
58	31.9	24.1	36.1





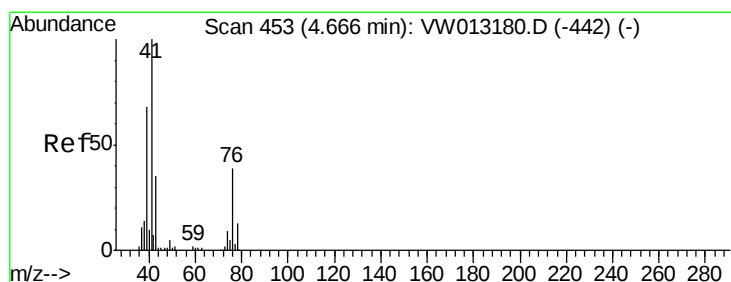
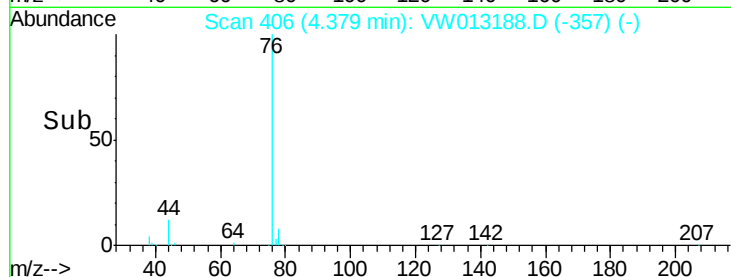
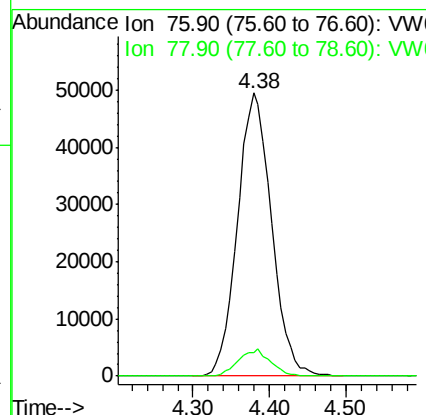
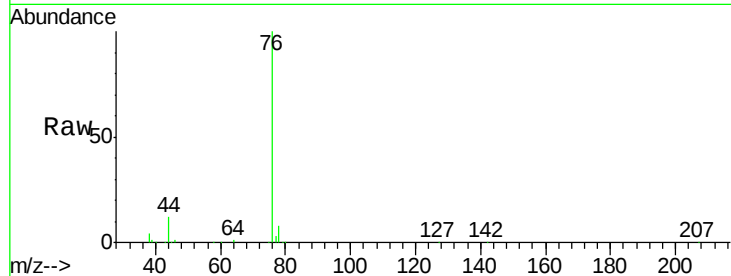
#17
Carbon Disulfide
Concen: 19.808 ug/l
RT: 4.38 min Scan# 406
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.5	7.0	10.4

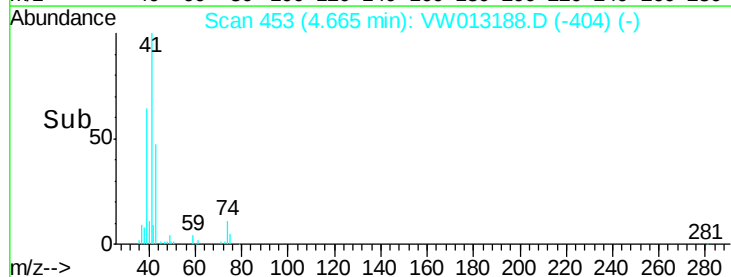
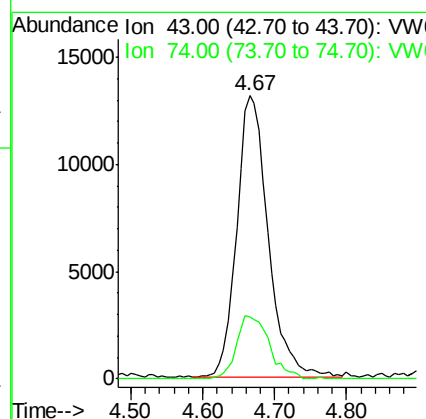
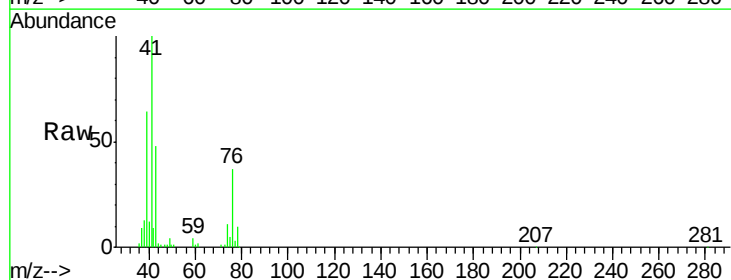
Manual Integrations
APPROVED

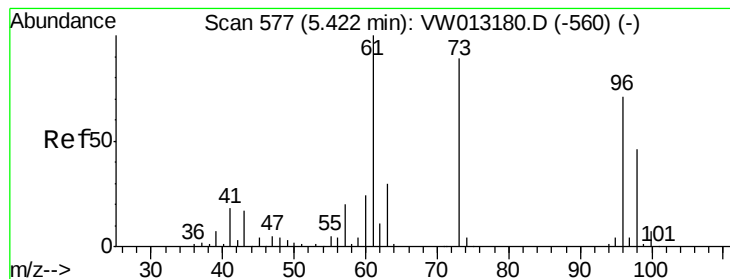
MMDadoda
9/24/2019 5:28:55 AM



#18
Methyl Acetate
Concen: 27.020 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.2	19.3	28.9





#19

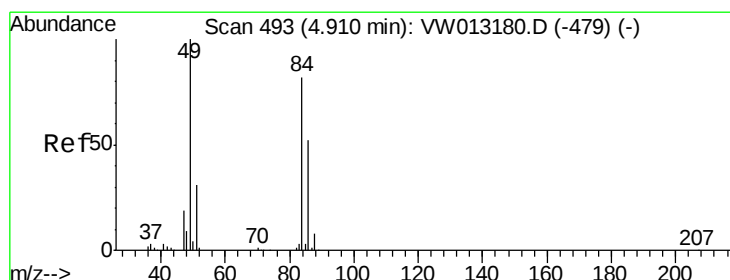
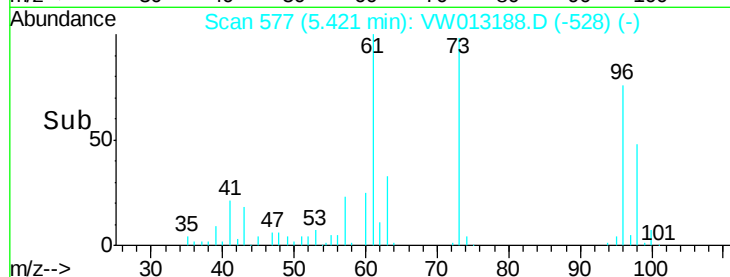
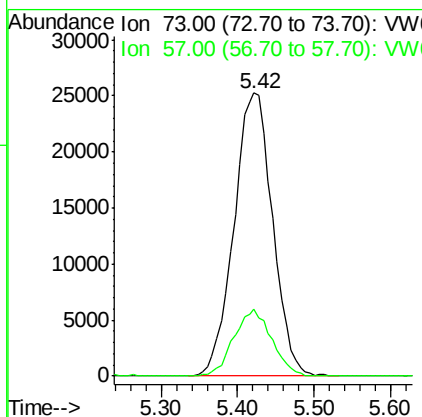
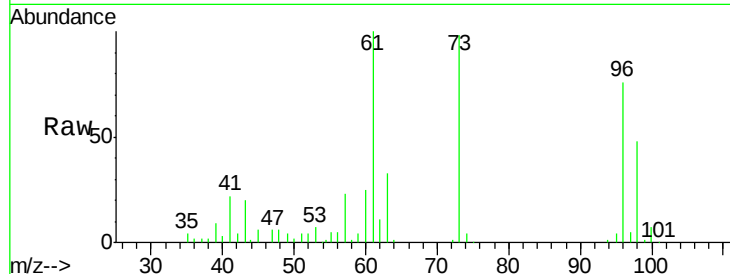
Methyl tert-butyl Ether
 Concen: 21.610 ug/l
 RT: 5.42 min Scan# 577
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0920SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	23.8	17.6	26.4

Manual Integrations
 APPROVED

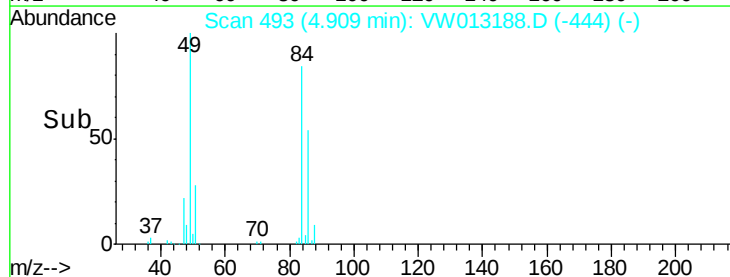
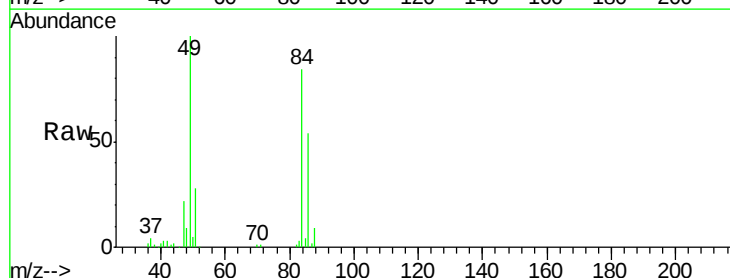
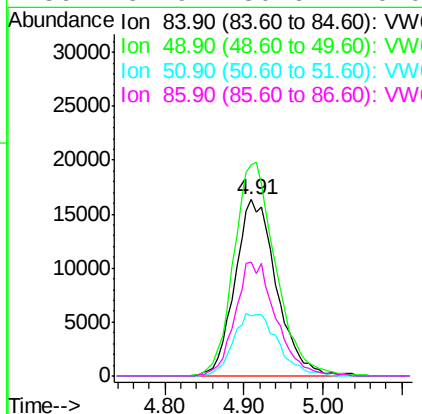
MMDadoda
 9/24/2019 5:28:55 AM

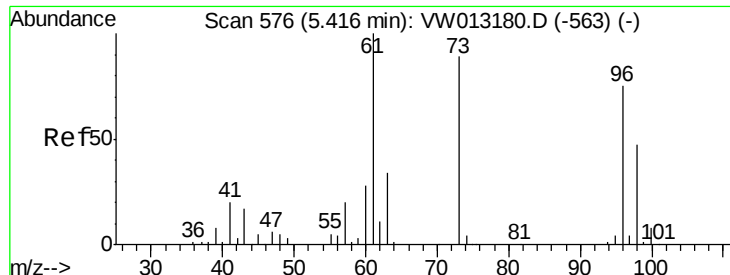


#20

Methylene Chloride
 Concen: 20.356 ug/l
 RT: 4.91 min Scan# 493
 Delta R.T. 0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Lower	Upper
84	100		
49	119.8	97.6	146.4
51	34.0	30.2	45.2
86	64.9	50.6	76.0





#21

trans-1,2-Dichloroethene

Concen: 19.797 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBSD01

Tot Ion: 96 Resp: 57074

Ion Ratio Lower Upper

96 100

61 131.2 106.6 159.8

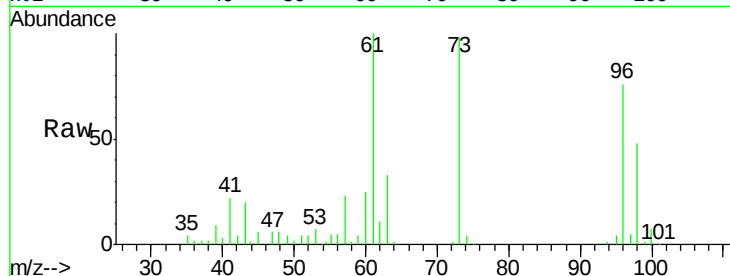
98 62.4 49.8 74.8

Manual Integrations

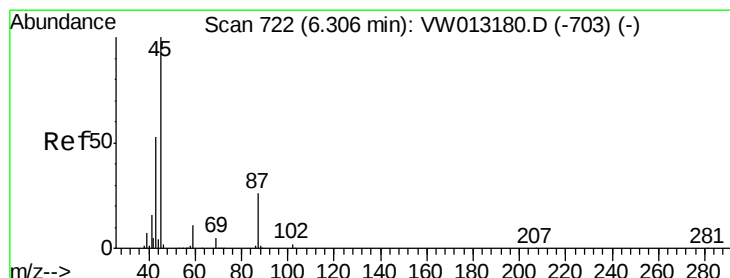
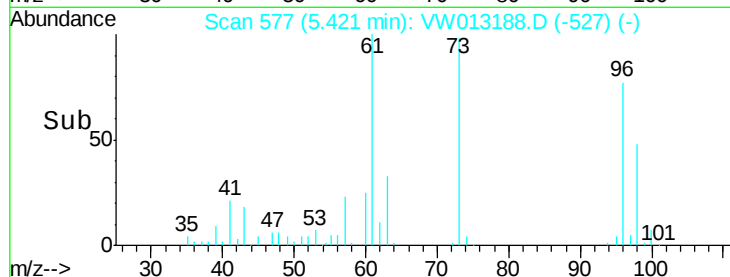
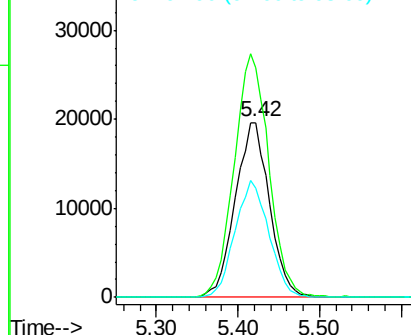
APPROVED

MMDadoda

9/24/2019 5:28:55 AM



Abundance Ion 95.90 (95.60 to 96.60): VW
Ion 60.90 (60.60 to 61.60): VW
Ion 97.90 (97.60 to 98.60): VW



#22

Diisopropyl ether

Concen: 20.224 ug/l

RT: 6.31 min Scan# 722

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Tgt Ion: 45 Resp: 163262

Ion Ratio Lower Upper

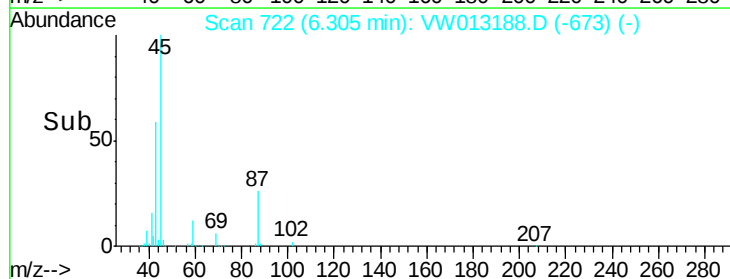
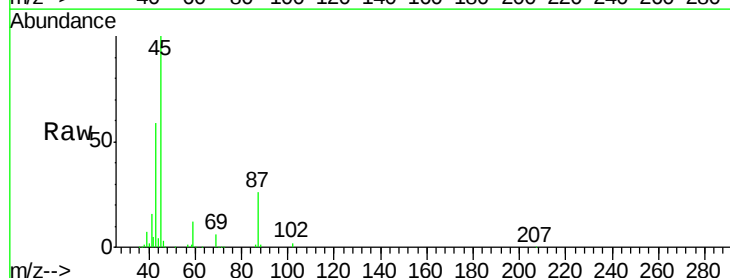
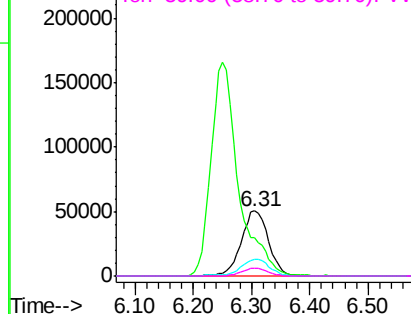
45 100

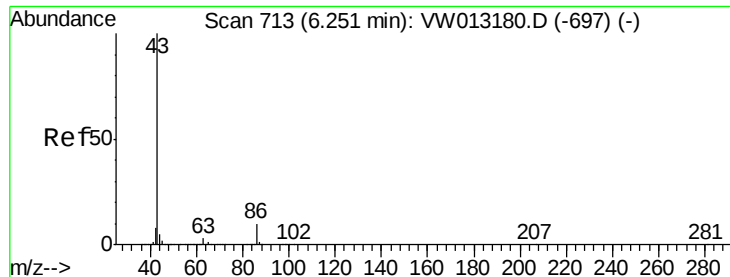
43 58.3 42.4 63.6

87 26.0 20.4 30.6

59 11.9 8.8 13.2

Abundance Ion 45.00 (44.70 to 45.70): VW
Ion 43.00 (42.70 to 43.70): VW
Ion 87.00 (86.70 to 87.70): VW
Ion 59.00 (58.70 to 59.70): VW





#23

Vinyl Acetate

Concen: 112.832 ug/l

RT: 6.25 min Scan# 713

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBS01

Tot Ion: 43 Resp: 540369

Ion Ratio Lower Upper

43 100

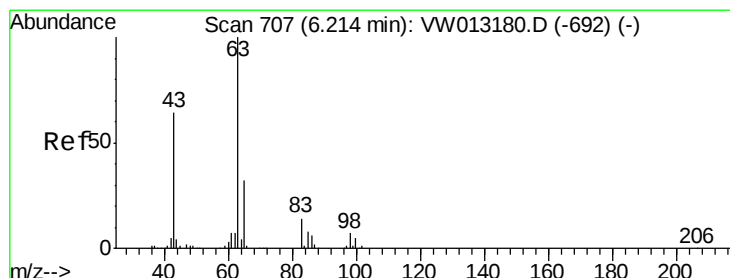
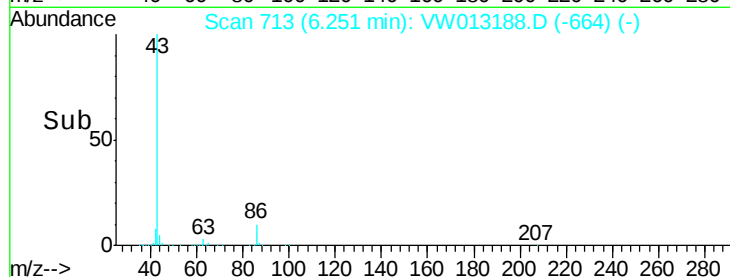
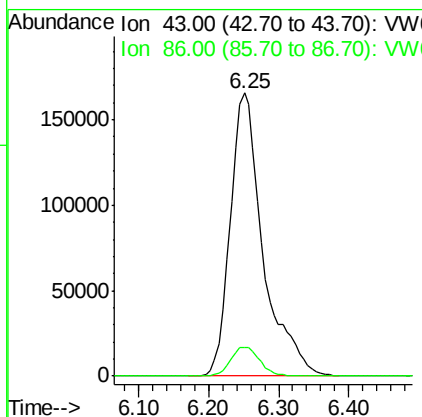
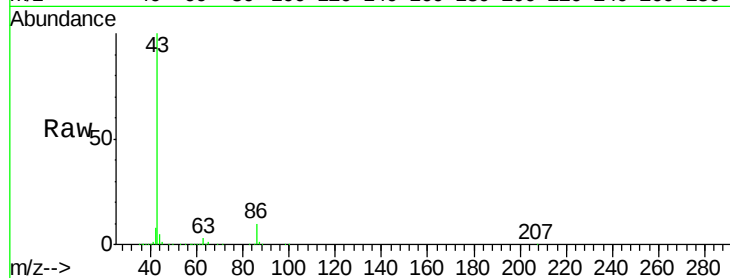
86 10.3 8.3 12.5

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:28:55 AM



#24

1,1-Dichloroethane

Concen: 19.647 ug/l

RT: 6.21 min Scan# 706

Delta R.T. -0.01 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

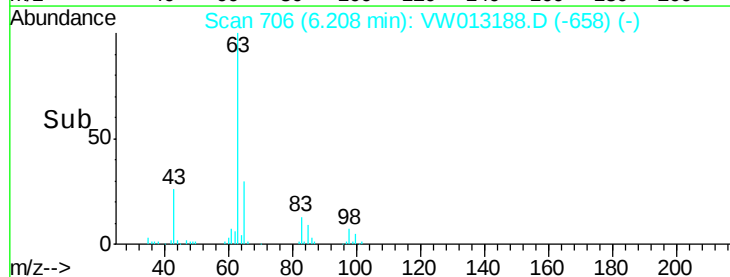
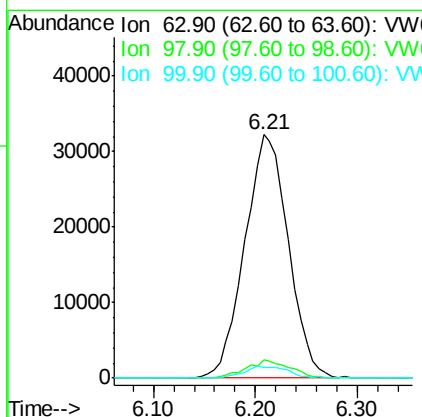
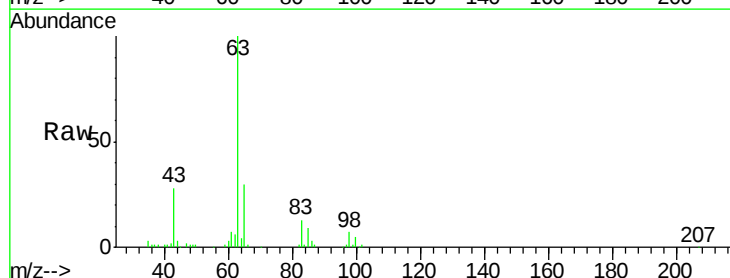
Tgt Ion: 63 Resp: 95707

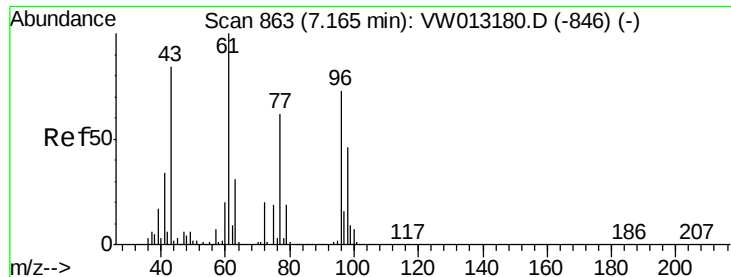
Ion Ratio Lower Upper

63 100

98 7.3 3.5 10.5

100 4.5 2.4 7.1





#25

2-Butanone

Concen: 138.007 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.01 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBS01

Tot Ion: 43 Resp: 109445

Ion Ratio Lower Upper

43 100

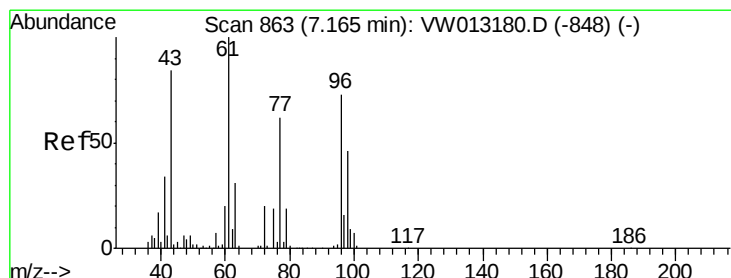
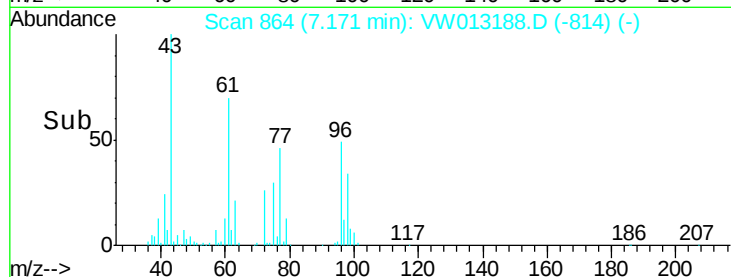
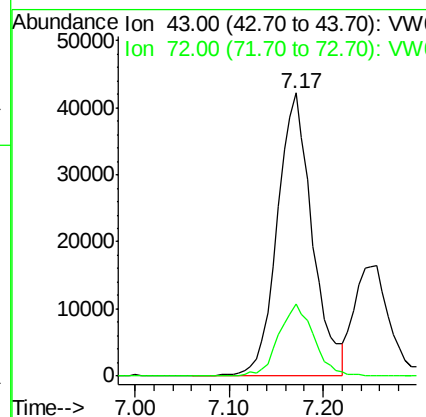
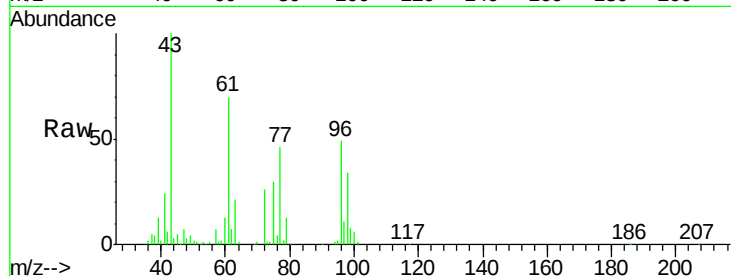
72 25.5 19.4 29.0

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:28:55 AM



#26

2,2-Dichloropropane

Concen: 20.005 ug/l

RT: 7.16 min Scan# 862

Delta R.T. -0.01 min

Lab File: VW013188.D

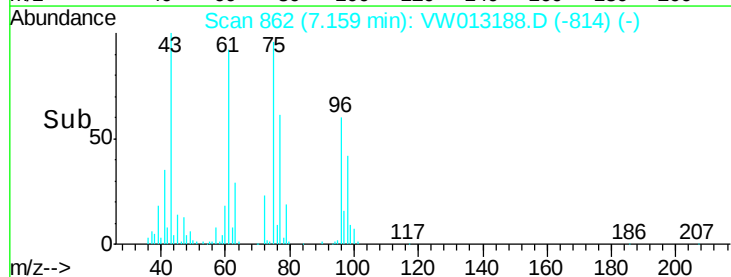
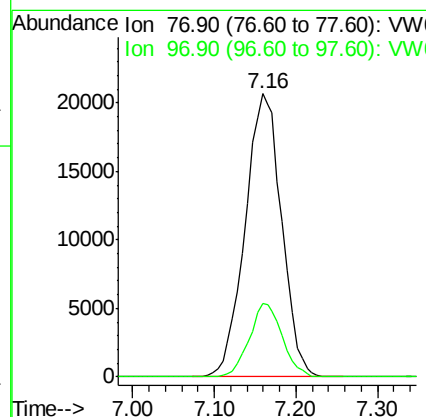
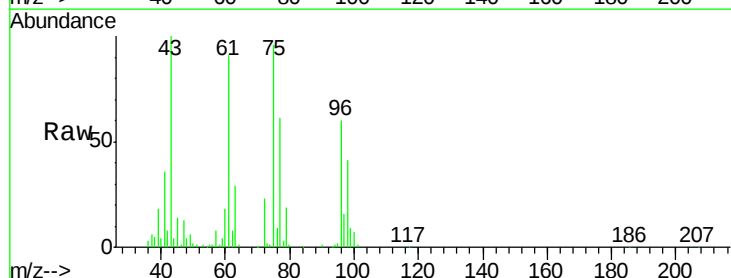
Acq: 20 Sep 2019 17:59

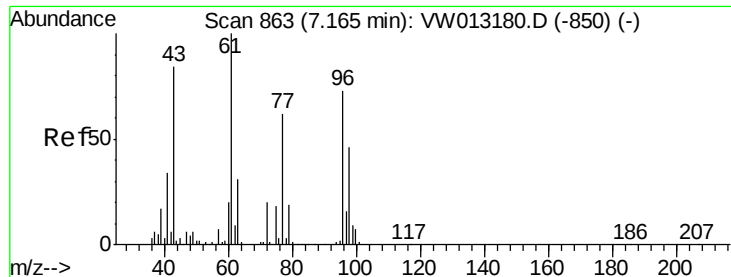
Tgt Ion: 77 Resp: 64134

Ion Ratio Lower Upper

77 100

97 23.5 11.8 35.4





#27

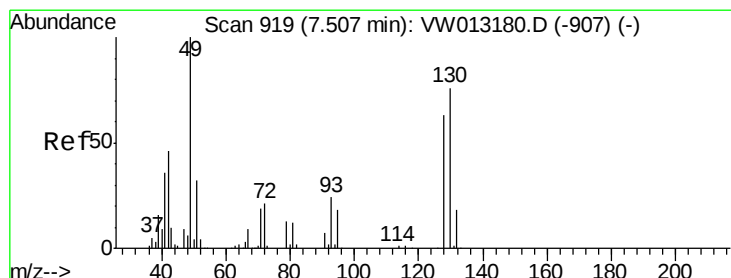
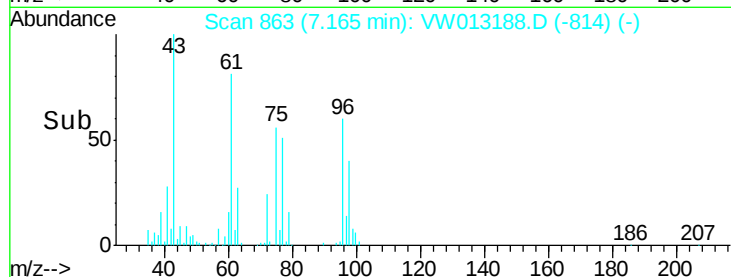
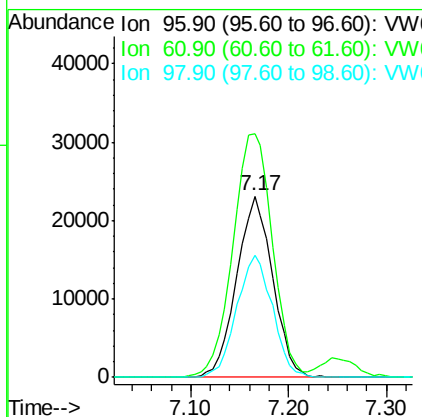
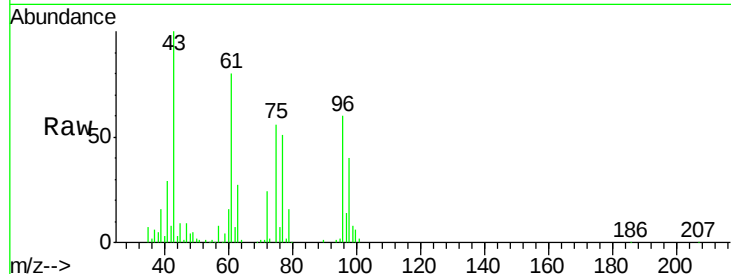
cis-1,2-Dichloroethene
Concen: 19.459 ug/l
RT: 7.17 min Scan# 863
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	147.6	0.0	282.4
98	66.7	0.0	128.2

Manual Integrations
APPROVED

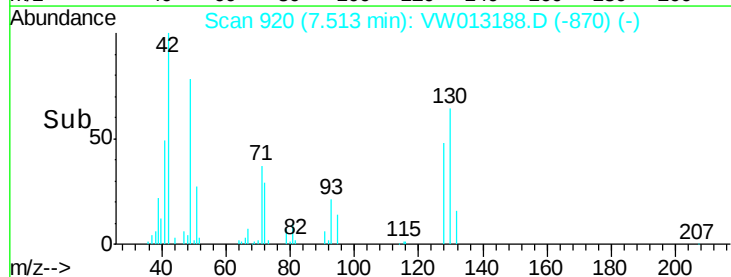
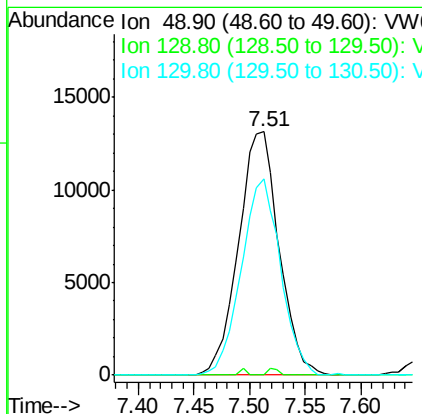
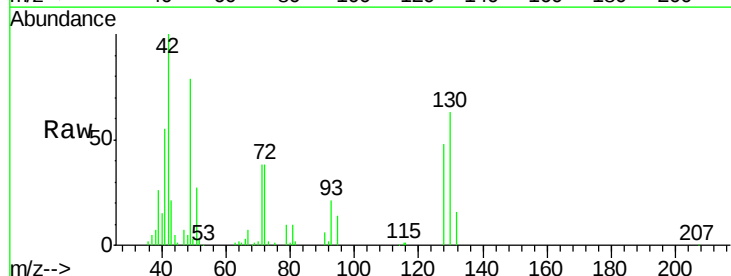
MMDadoda
9/24/2019 5:28:55 AM

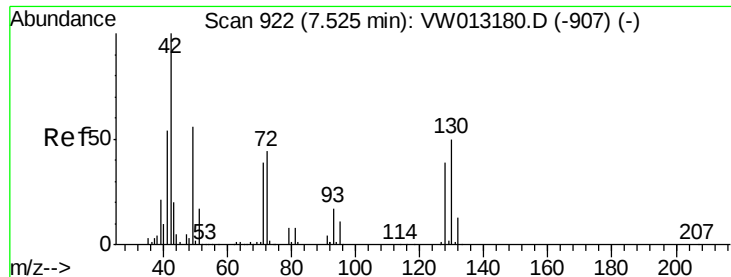


#28

Bromochloromethane
Concen: 17.801 ug/l
RT: 7.51 min Scan# 920
Delta R.T. 0.01 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.7	0.0	1.0
130	78.0	63.4	95.2





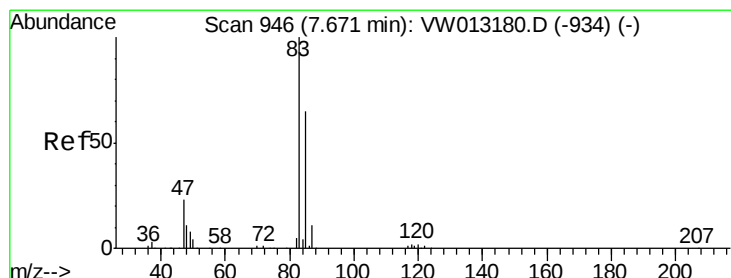
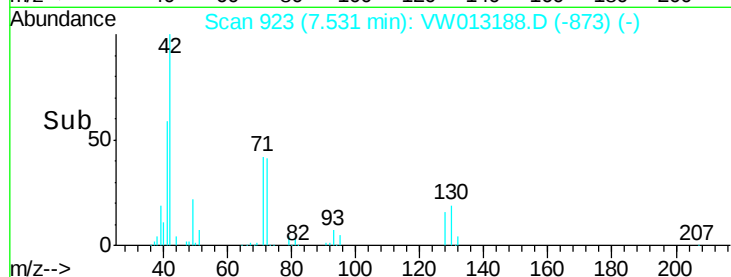
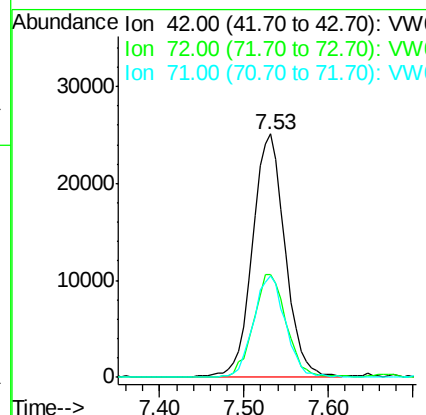
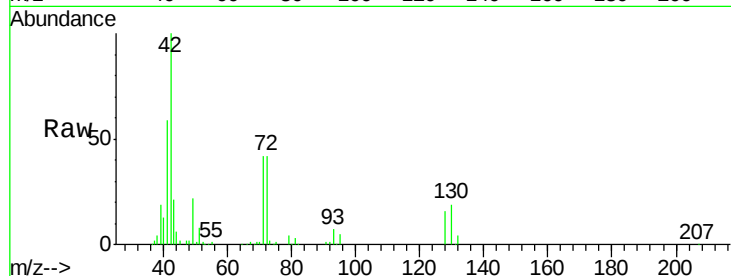
#29
Tetrahydrofuran
Concen: 137.270 ug/l
RT: 7.53 min Scan# 923
Delta R.T. 0.01 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBS01

Tot Ion:	42	Resp:	66761
Ion	Ratio	Lower	Upper
42	100		
72	42.4	33.9	50.9
71	40.7	31.9	47.9

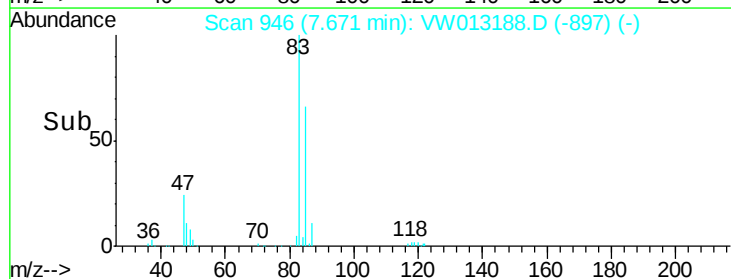
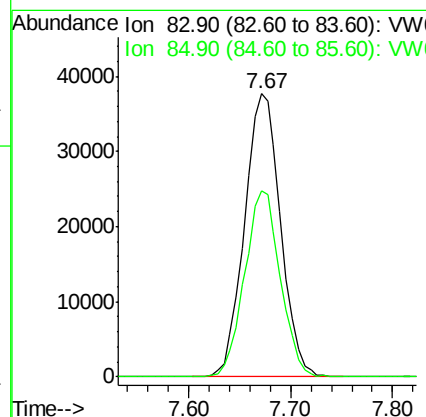
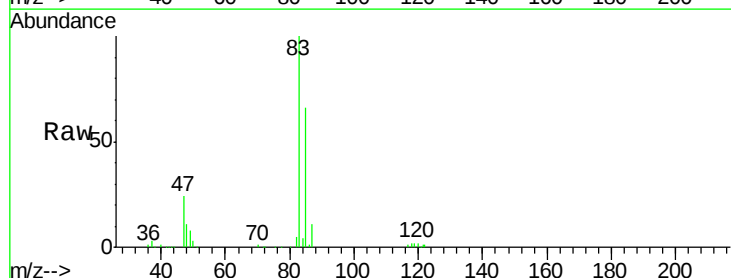
Manual Integrations
APPROVED

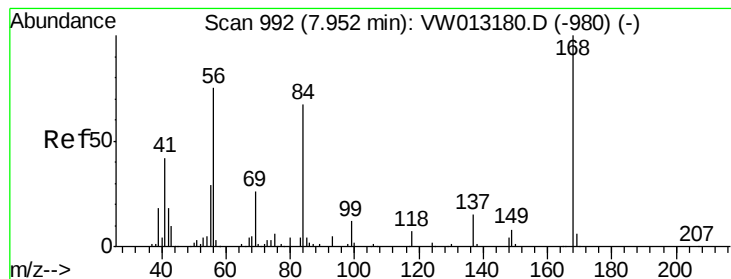
MMDadoda
9/24/2019 5:28:55 AM



#30
Chloroform
Concen: 19.344 ug/l
RT: 7.67 min Scan# 946
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion:	83	Resp:	92255
Ion	Ratio	Lower	Upper
83	100		
85	65.8	52.3	78.5





#31

Cyclohexane

Concen: 20.692 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBSD01

Tot Ion: 56 Resp: 105071

Ion Ratio Lower Upper

56 100

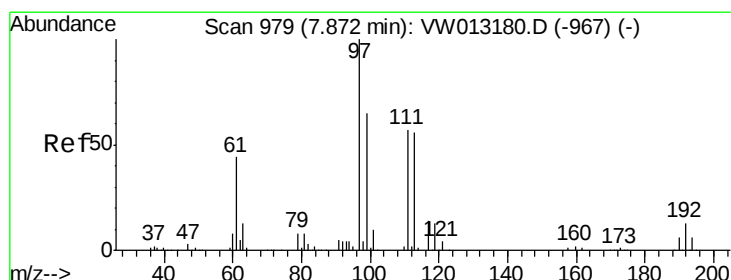
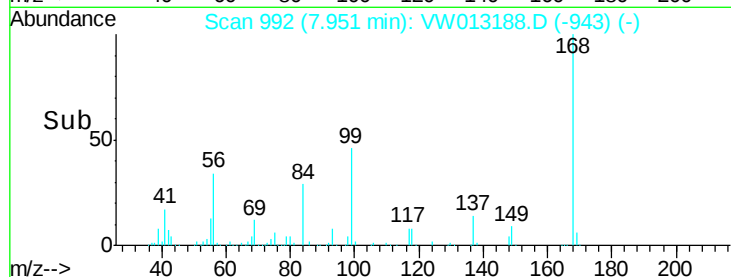
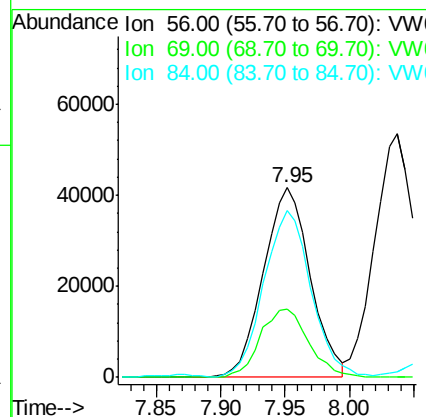
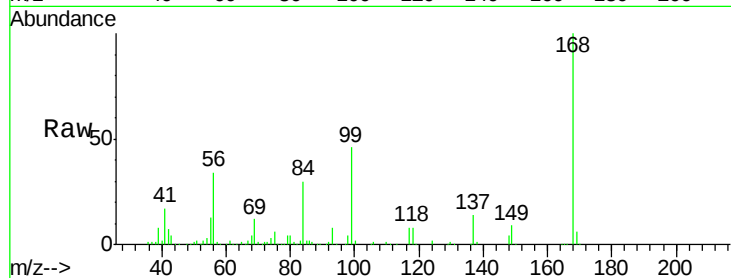
69 35.7 27.2 40.8

84 87.5 70.8 106.2

Manual Integrations
APPROVED

MMDadoda

9/24/2019 5:28:55 AM



#32

1,1,1-Trichloroethane

Concen: 19.949 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

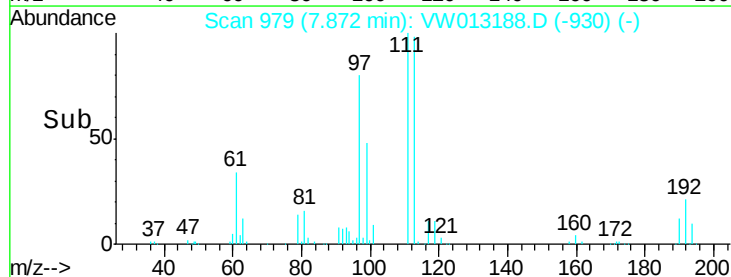
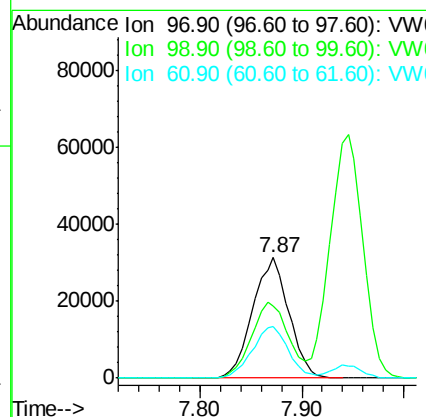
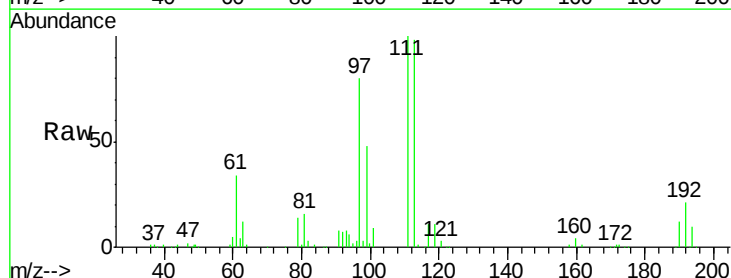
Tgt Ion: 97 Resp: 77056

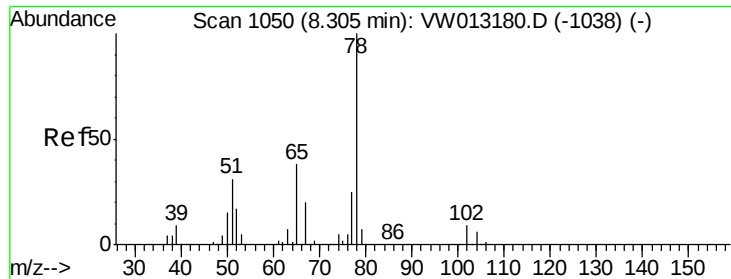
Ion Ratio Lower Upper

97 100

99 64.5 51.7 77.5

61 43.0 34.6 51.8





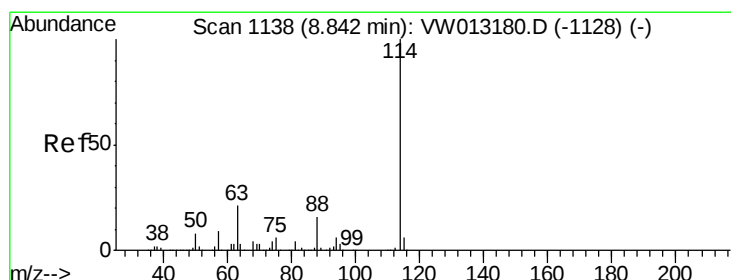
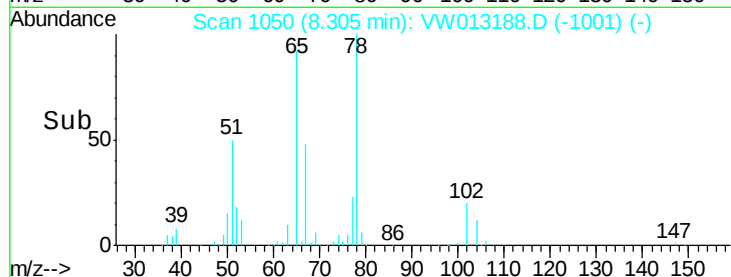
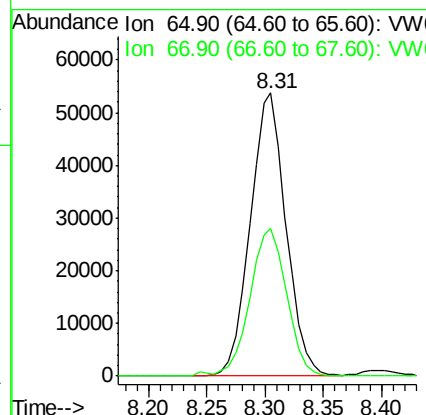
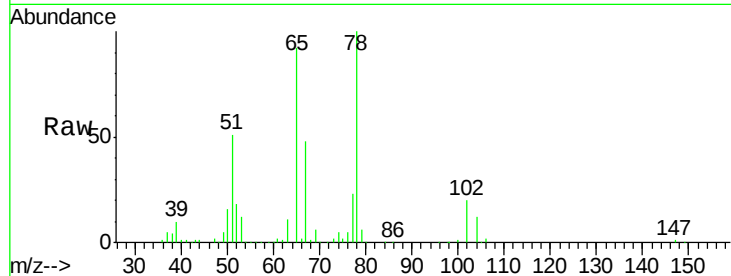
#33
 1,2-Dichloroethane-d4
 Concen: 49.002 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
65	100	114792		
67	54.0	0.0	106.2	

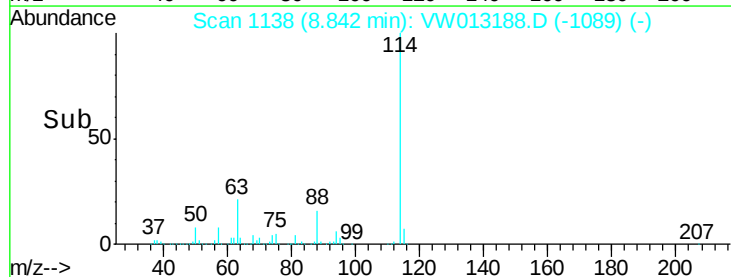
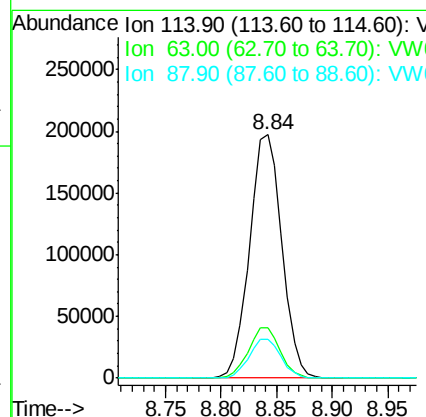
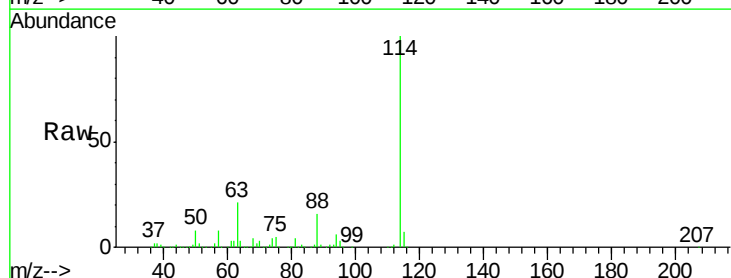
Manual Integrations
 APPROVED

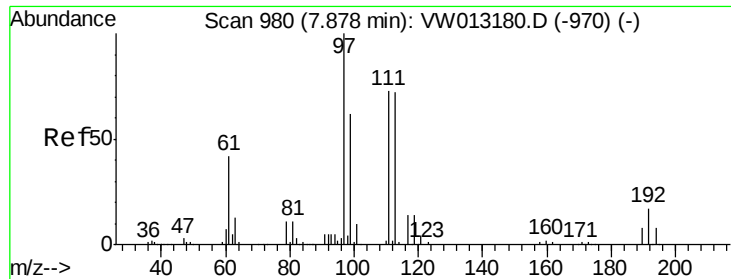
MMDadoda
 9/24/2019 5:28:55 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	398227		
63	20.5	0.0	41.4	
88	15.8	0.0	32.0	





#35

Dibromofluoromethane

Concen: 48.815 ug/l

RT: 7.88 min Scan# 981

Delta R.T. 0.01 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

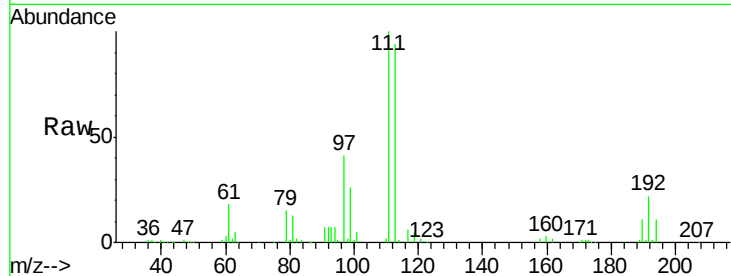
ClientSampleId :

VW0920SBS01

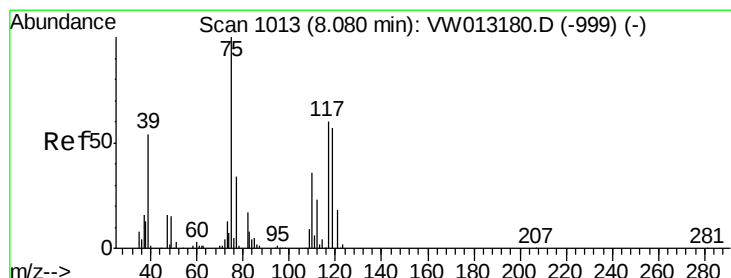
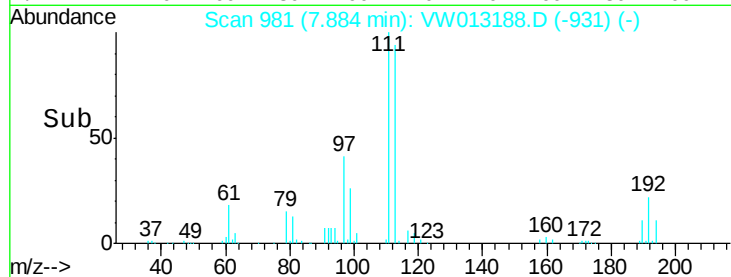
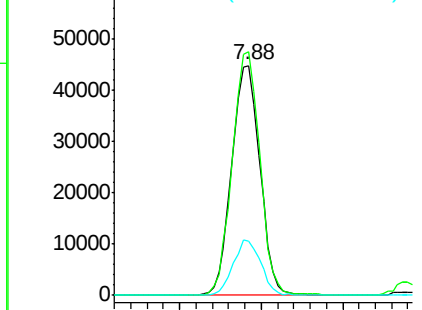
Tot Ion:	113	Resp:	106917
Ion Ratio	Lower	Upper	
113	100		
111	103.6	81.9	122.9
192	23.4	19.1	28.7

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:28:55 AM



Abundance Ion 112.80 (112.50 to 113.50): V
Ion 110.80 (110.50 to 111.50): V
Ion 191.70 (191.40 to 192.40): V



#36

1,1-Dichloropropene

Concen: 21.275 ug/l

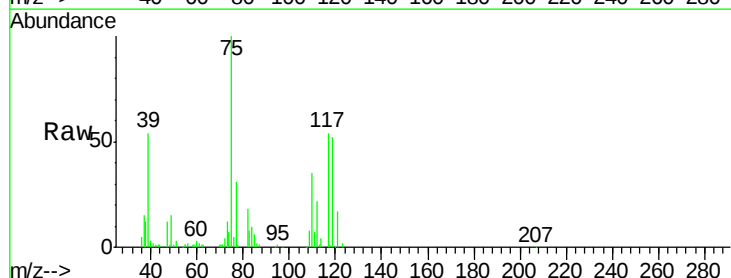
RT: 8.08 min Scan# 1013

Delta R.T. -0.00 min

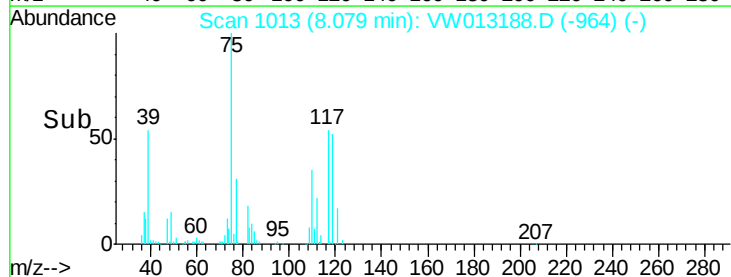
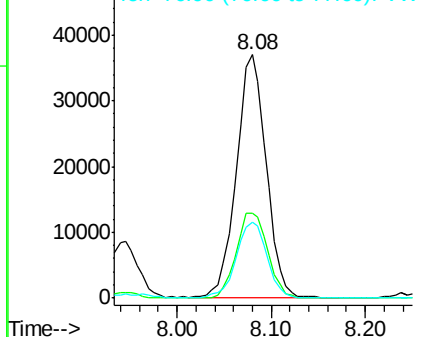
Lab File: VW013188.D

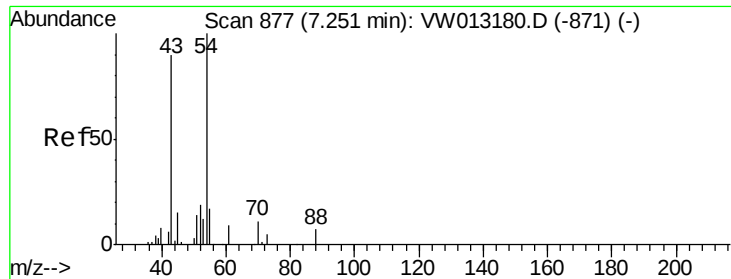
Acq: 20 Sep 2019 17:59

Tgt Ion:	75	Resp:	82061
Ion Ratio	Lower	Upper	
75	100		
110	36.7	18.1	54.3
77	31.9	25.8	38.6



Abundance Ion 74.90 (74.60 to 75.60): VW
Ion 109.90 (109.60 to 110.60): V
Ion 76.90 (76.60 to 77.60): VW





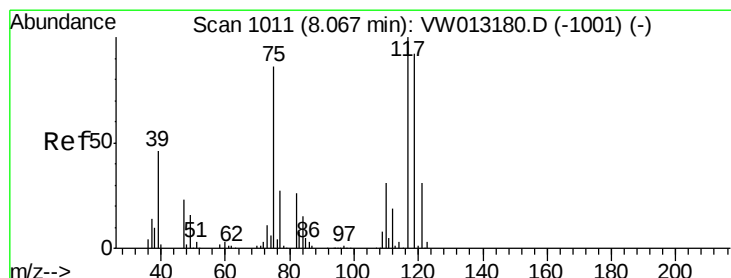
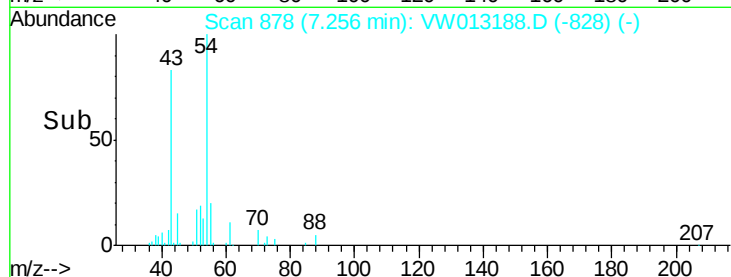
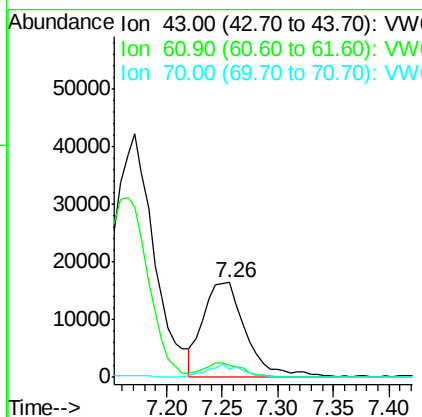
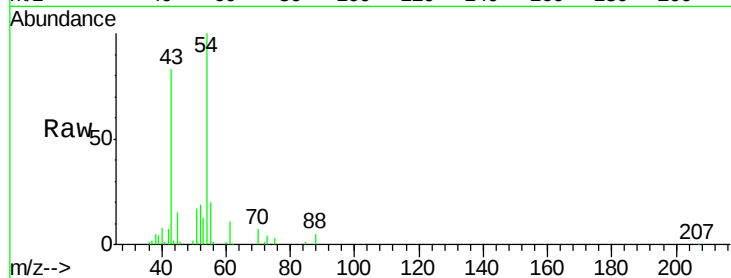
#37
Ethyl Acetate
Concen: 26.371 ug/l
RT: 7.26 min Scan# 878
Delta R.T. 0.01 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.5	10.9	16.3
70	11.5	8.2	12.2

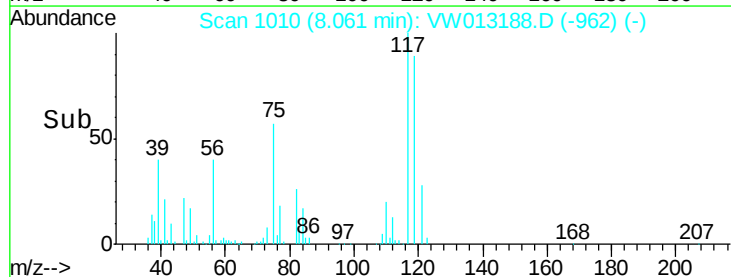
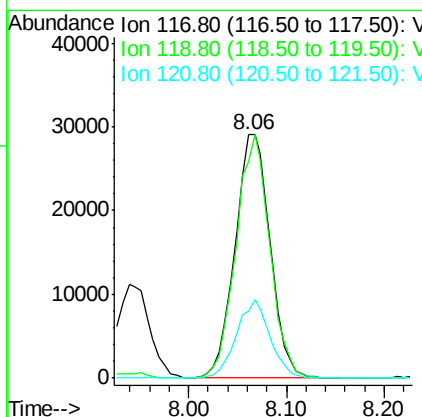
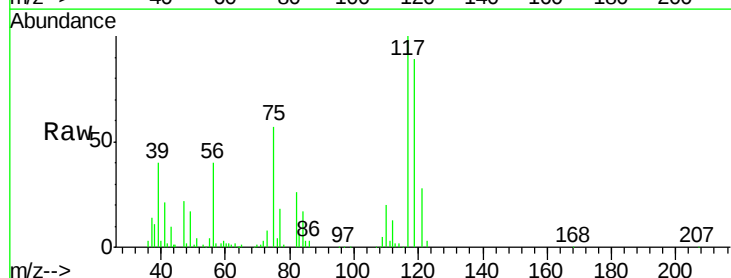
Manual Integrations
APPROVED

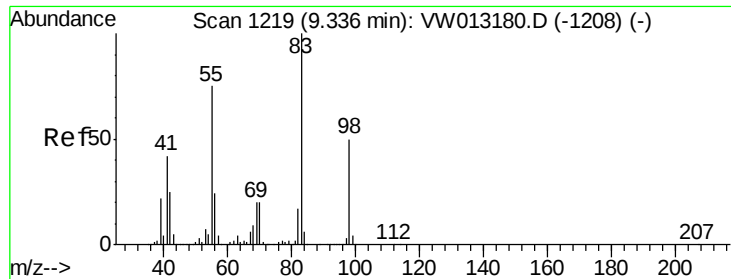
MMDadoda
9/24/2019 5:28:55 AM



#38
Carbon Tetrachloride
Concen: 20.977 ug/l
RT: 8.06 min Scan# 1010
Delta R.T. -0.01 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Lower	Upper
117	100		
119	88.9	73.5	110.3
121	27.6	25.0	37.6





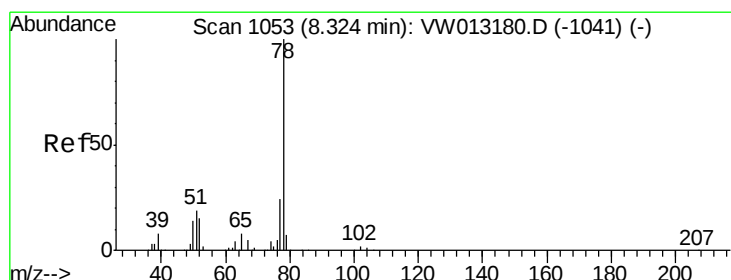
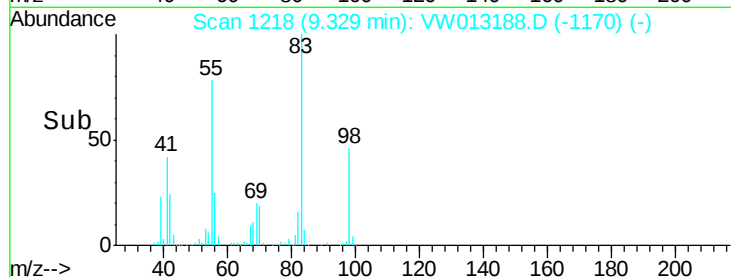
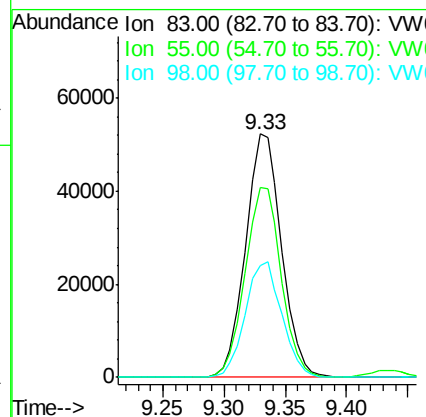
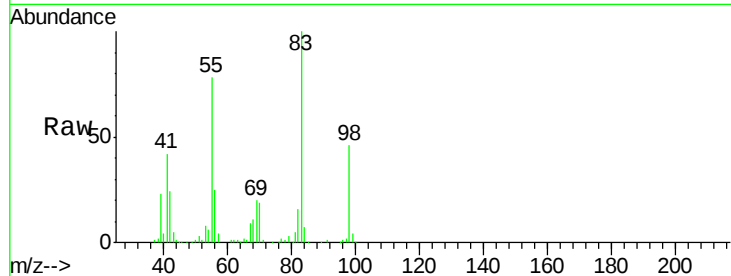
#39
Methvlcvclohexane
Concen: 21.547 ug/l
RT: 9.33 min Scan# 1218
Delta R.T. -0.01 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	106806		
55	78.0		60.4	90.6
98	46.1		40.0	60.0

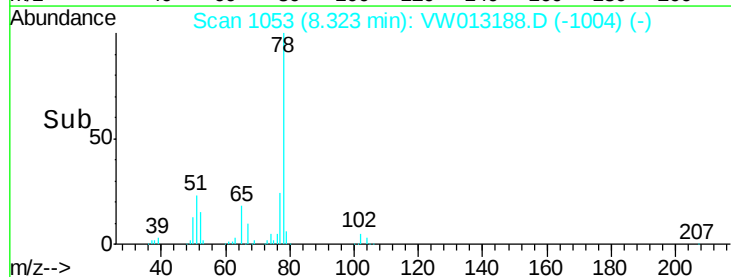
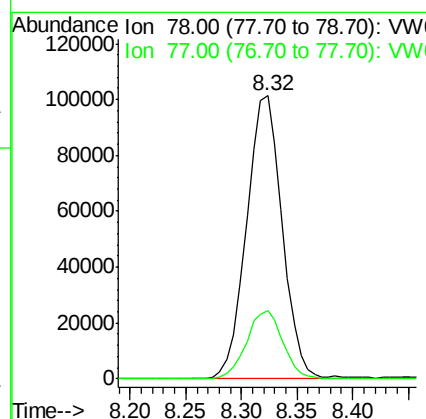
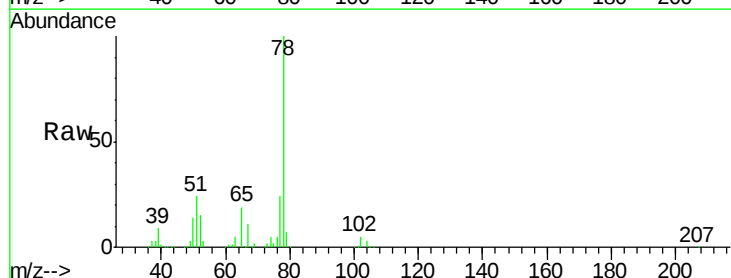
Manual Integrations
APPROVED

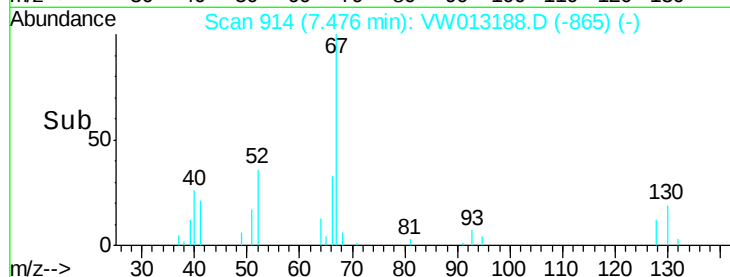
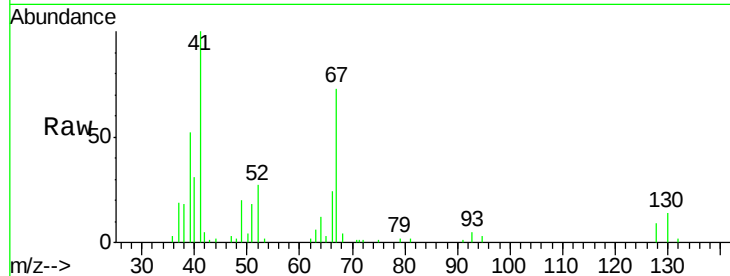
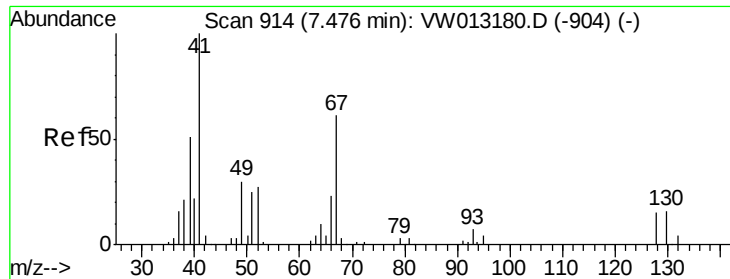
MMDadoda
9/24/2019 5:28:55 AM



#40
Benzene
Concen: 21.015 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	226090		
77	24.3		19.1	28.7





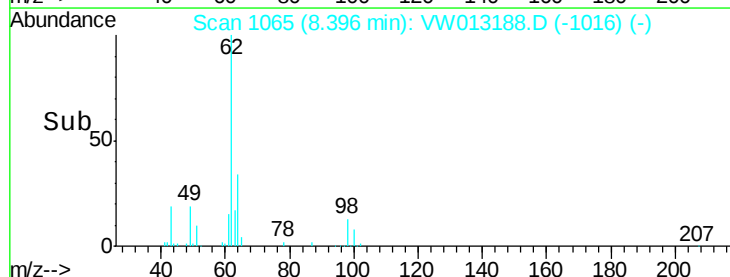
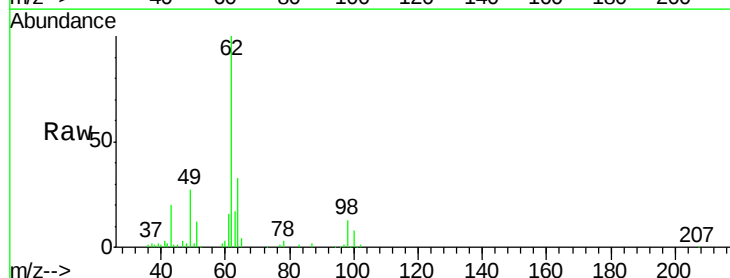
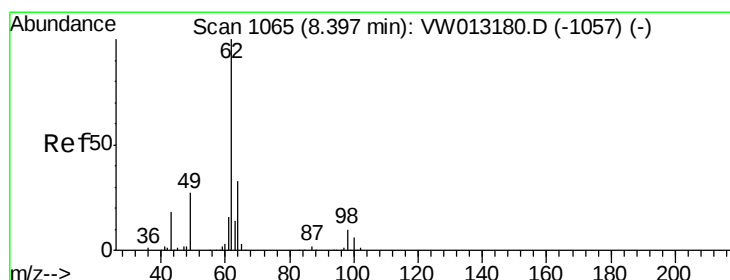
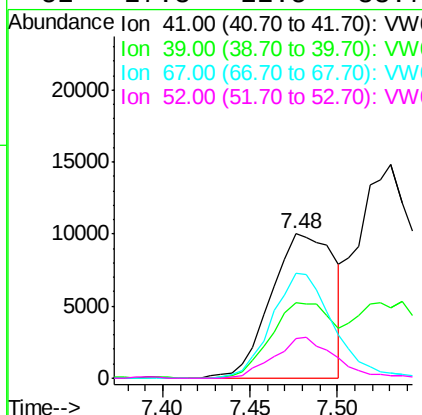
#41
Methacrylonitrile
Concen: 25.883 ug/l
RT: 7.48 min Scan# 914
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tot Ion	41	Resp	25323
Ion	Ratio	Lower	Upper
41	100		
39	51.0	45.9	68.9
67	71.0	54.5	81.7
52	27.3	22.5	33.7

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBSD01

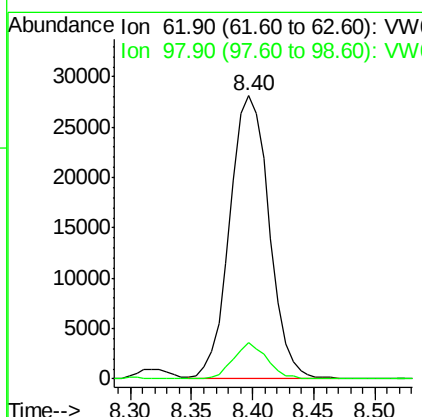
Manual Integrations
APPROVED

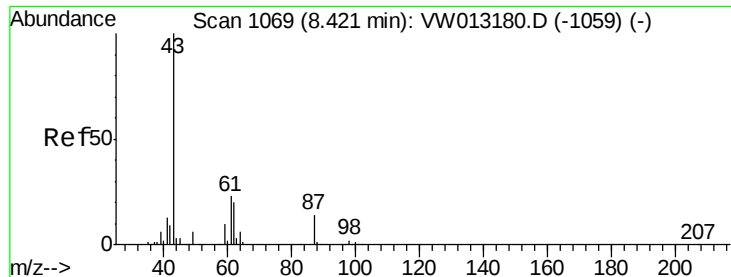
MMDadoda
9/24/2019 5:28:55 AM



#42
1,2-Dichloroethane
Concen: 21.747 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion	62	Resp	62895
Ion	Ratio	Lower	Upper
62	100		
98	10.7	0.0	20.6





#43

Isopropyl Acetate

Concen: 25.395 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

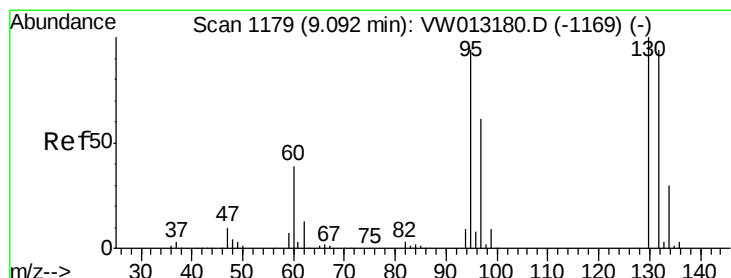
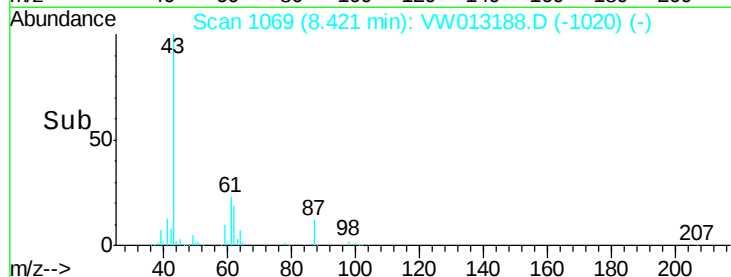
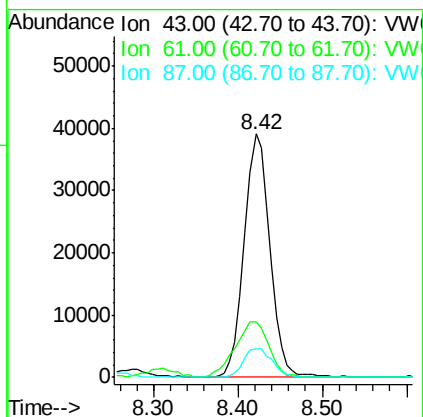
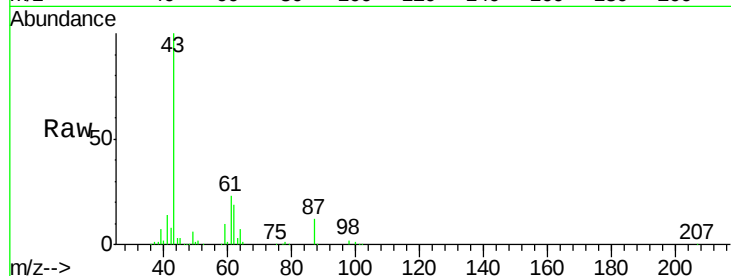
ClientSampleID :

VW0920SBS01

Tot Ion:	43	Resp:	79786
Ion	Ratio	Lower	Upper
43	100		
61	29.7	25.5	38.3
87	13.0	11.0	16.4

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:28:55 AM



#44

Trichloroethene

Concen: 20.658 ug/l

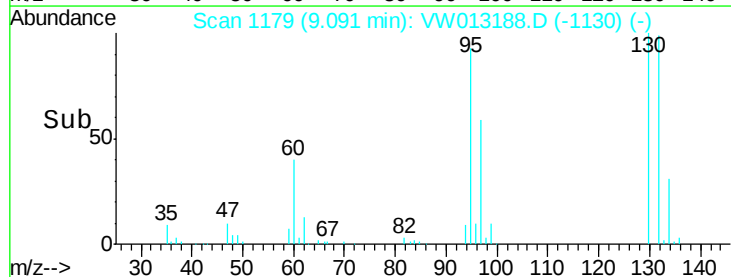
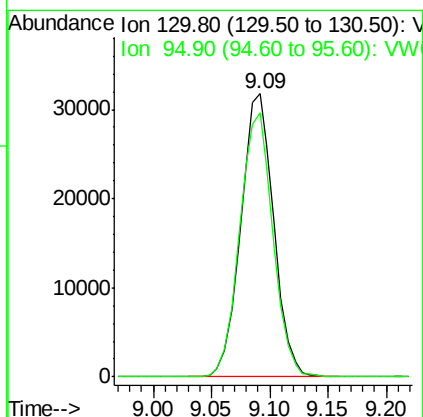
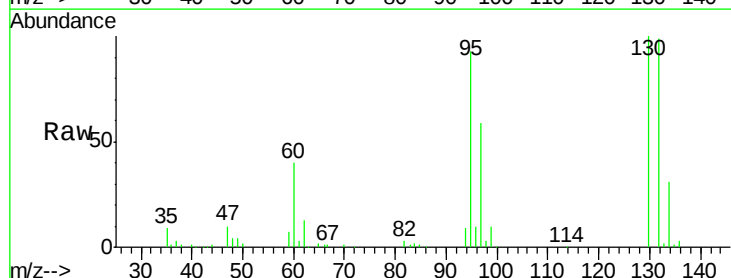
RT: 9.09 min Scan# 1179

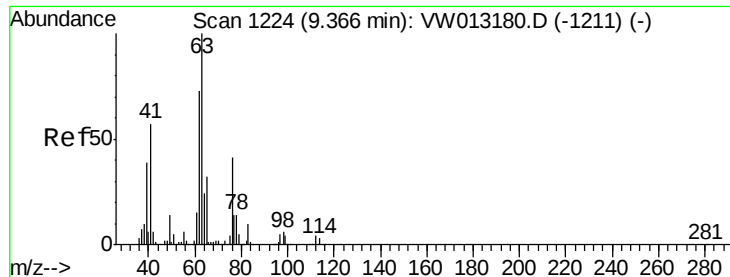
Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Tgt Ion:	130	Resp:	62357
Ion	Ratio	Lower	Upper
130	100		
95	93.2	0.0	188.0





#45

1,2-Dichloropropane

Concen: 20.324 ug/l

RT: 9.37 min Scan# 1224

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBS01

Tot Ion: 63 Resp: 53383

Ion Ratio Lower Upper

63 100

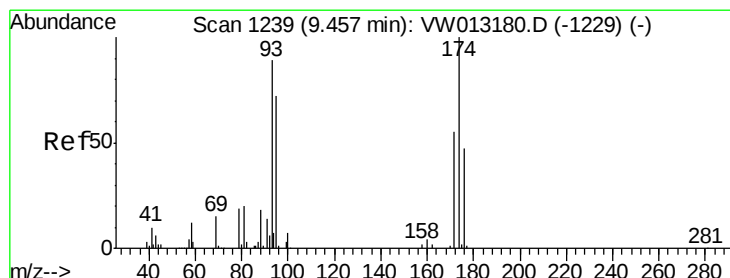
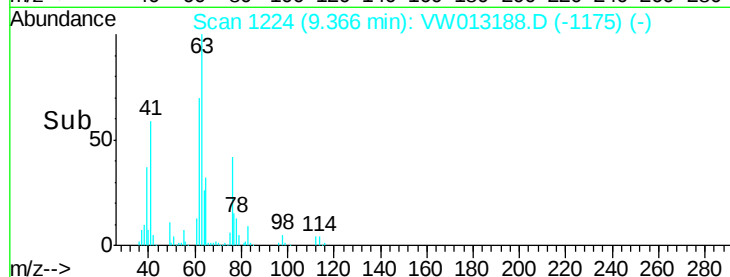
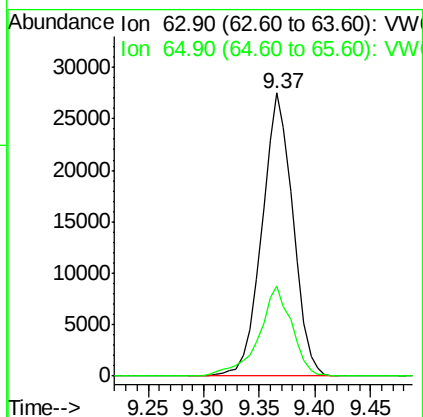
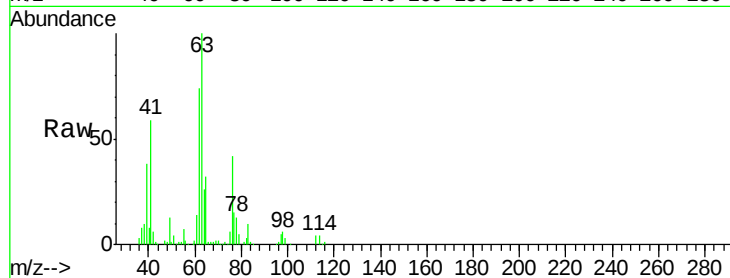
65 32.0 25.3 37.9

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:28:55 AM



#46

Dibromomethane

Concen: 22.248 ug/l

RT: 9.46 min Scan# 1239

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

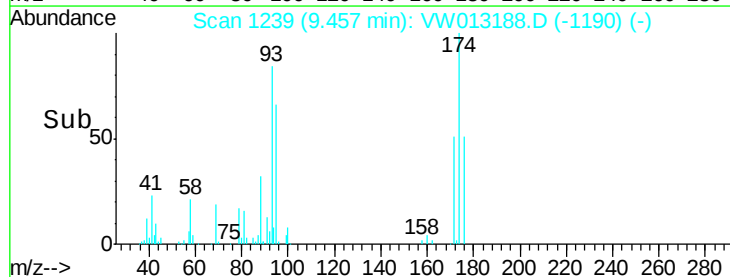
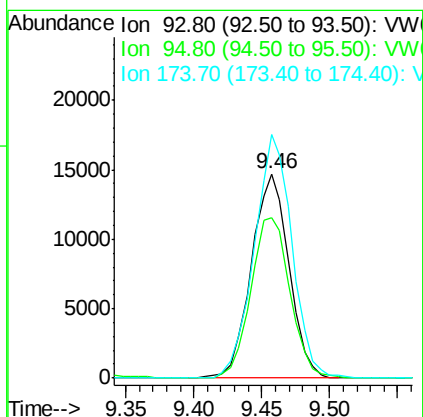
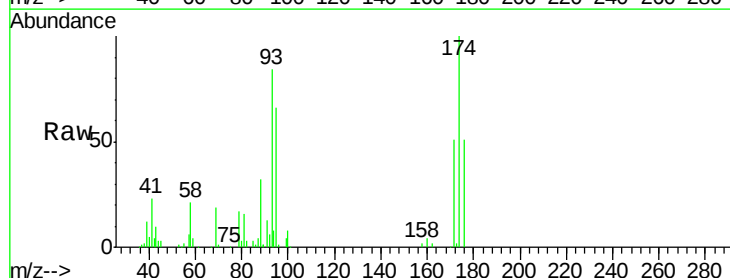
Tgt Ion: 93 Resp: 28371

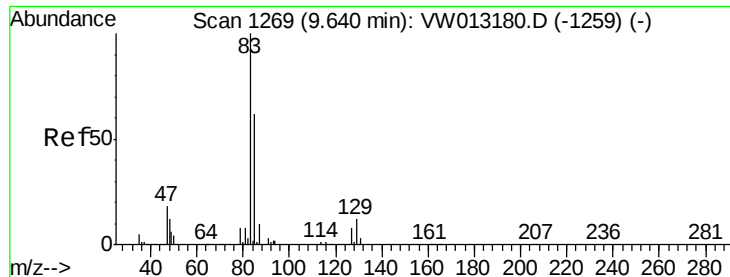
Ion Ratio Lower Upper

93 100

95 82.5 66.4 99.6

174 120.3 93.0 139.6





#47

Bromodichloromethane

Concen: 20.263 ug/l

RT: 9.64 min Scan# 1269

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

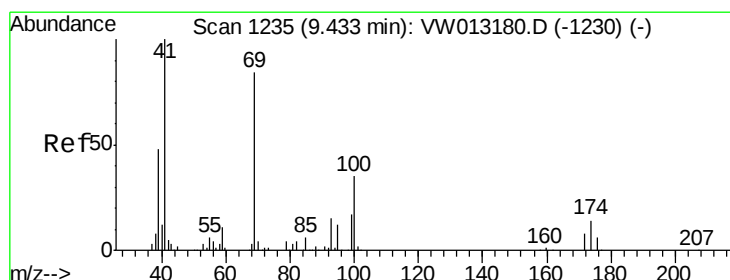
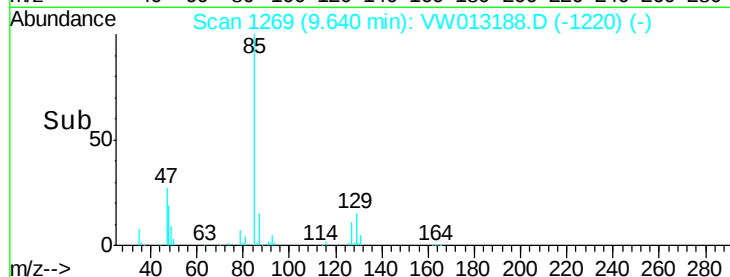
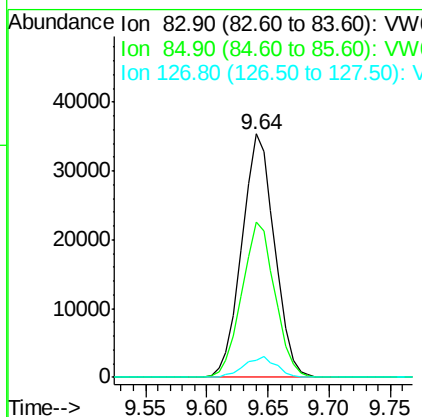
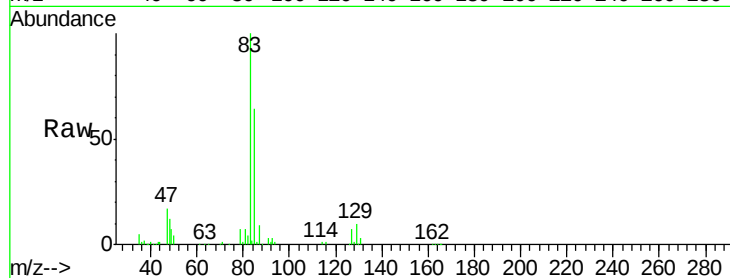
ClientSampleId :

VW0920SBS01

Tot Ion:	83	Resp:	65751
Ion	Ratio	Lower	Upper
83	100		
85	63.7	49.4	74.2
127	7.0	6.5	9.7

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:28:55 AM



#48

Methyl methacrylate

Concen: 24.445 ug/l

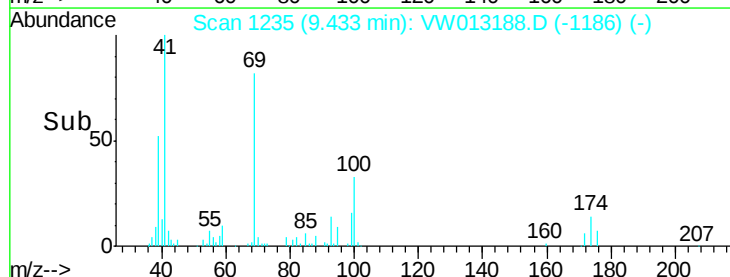
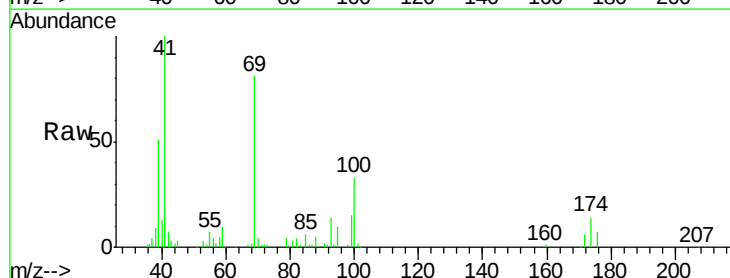
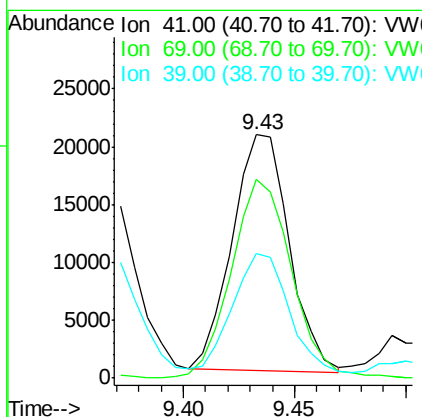
RT: 9.43 min Scan# 1235

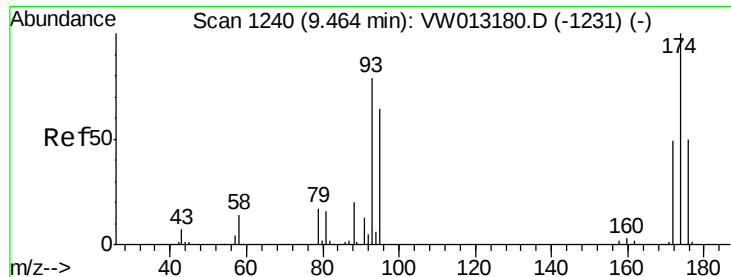
Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Tgt Ion:	41	Resp:	36114
Ion	Ratio	Lower	Upper
41	100		
69	90.2	69.7	104.5
39	49.4	41.1	61.7





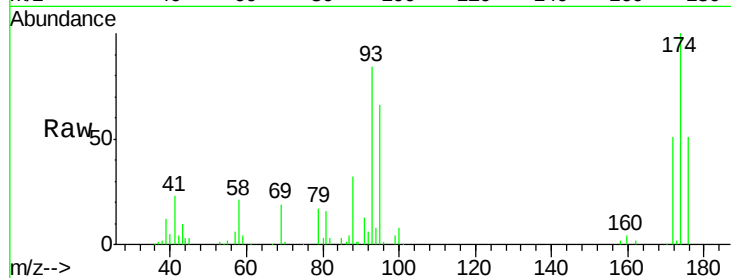
#49
1,4-Dioxane
Concen: 632.433 ug/l
RT: 9.46 min Scan# 1239
Delta R.T. -0.01 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBSD01

Tot Ion	88	Resp	12106
Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	73.3	65.4	98.0

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:28:55 AM

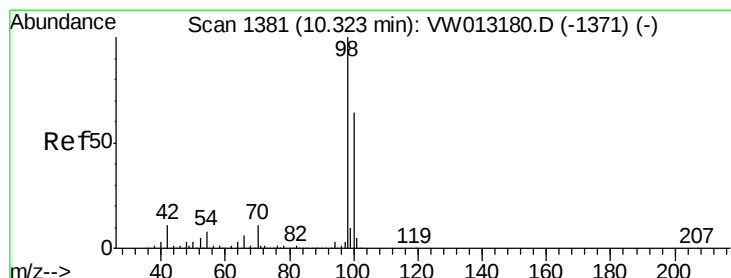
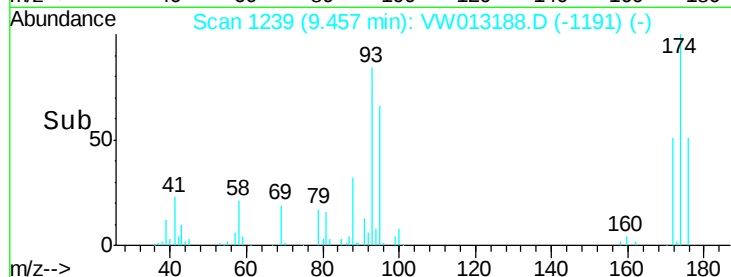
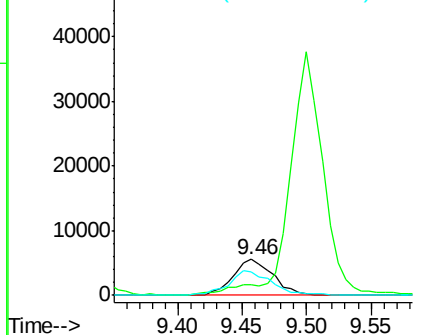


Abundance

Ion 88.00 (87.70 to 88.70): VW

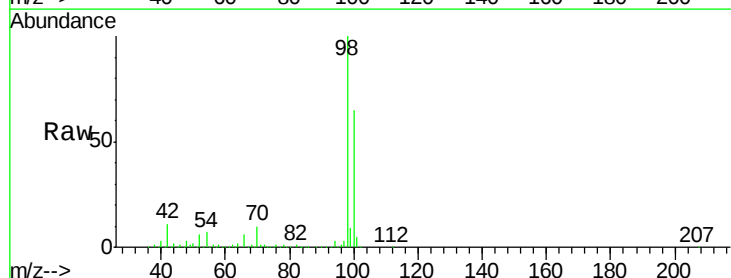
Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#50
Toluene-d8
Concen: 49.168 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

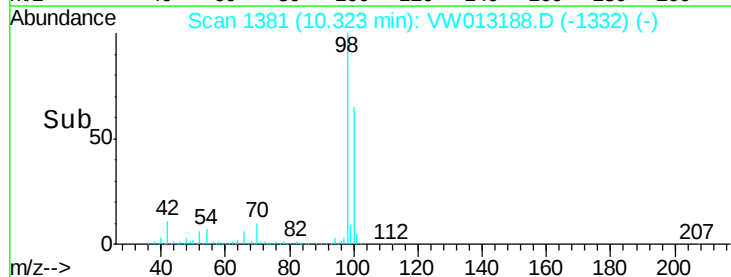
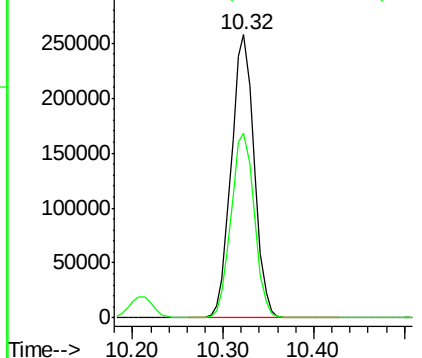
Tgt Ion	98	Resp	450699
Ion	Ratio	Lower	Upper
98	100		
100	66.4	52.9	79.3

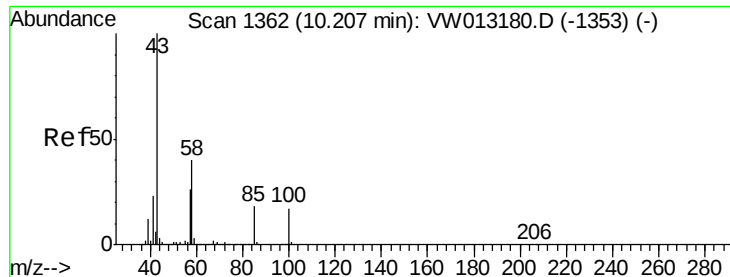


Abundance

Ion 98.00 (97.70 to 98.70): VW

Ion 100.00 (99.70 to 100.70): VW





#51

4-Methyl-2-Pentanone

Concen: 136.718 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBSD01

Tot Ion: 43 Resp: 215340

Ion Ratio Lower Upper

43 100

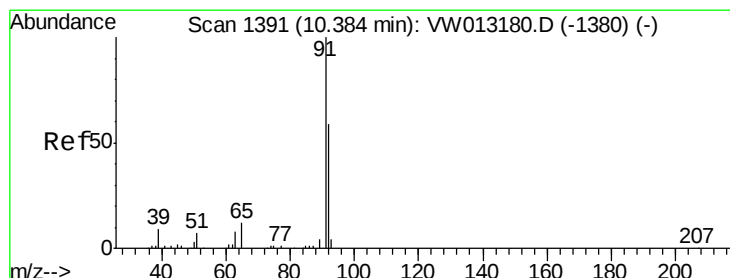
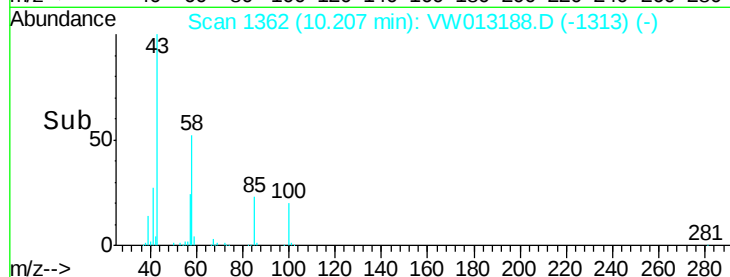
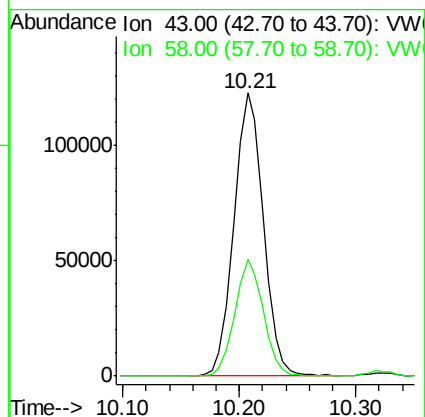
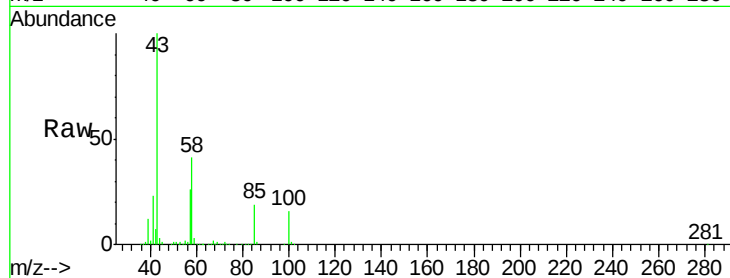
58 40.2 31.7 47.5

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:28:55 AM



#52

Toluene

Concen: 21.005 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013188.D

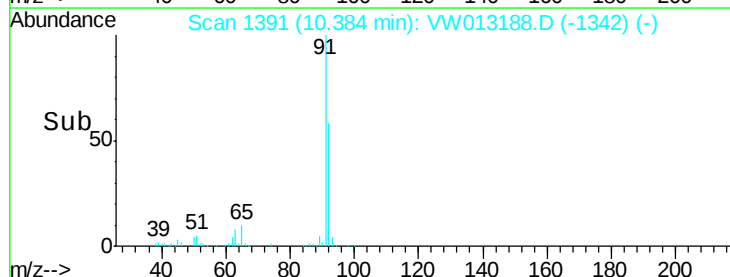
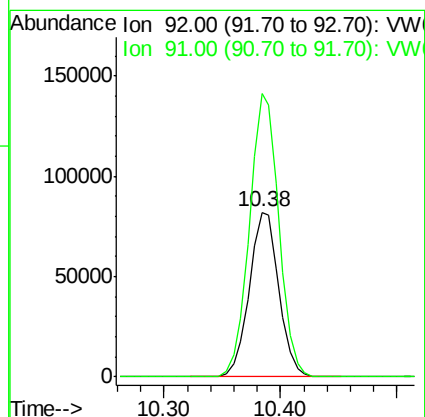
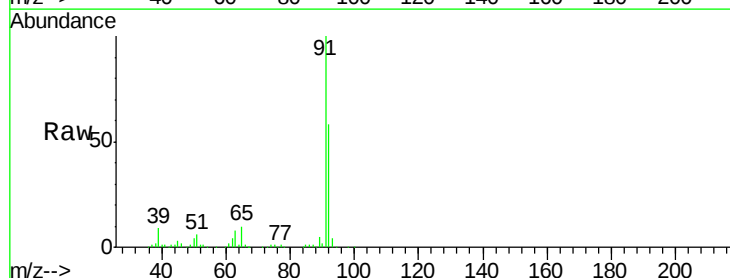
Acq: 20 Sep 2019 17:59

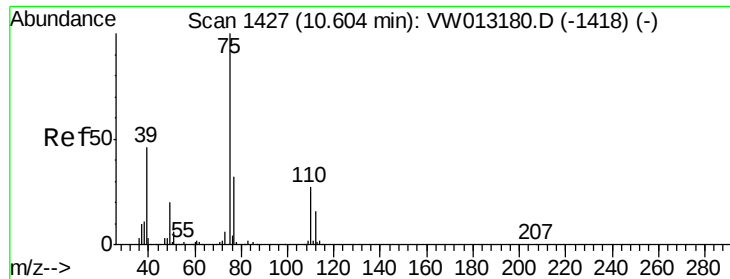
Tgt Ion: 92 Resp: 144833

Ion Ratio Lower Upper

92 100

91 170.6 135.7 203.5





#53

t-1,3-Dichloropropene

Concen: 21.350 ug/l

RT: 10.60 min Scan# 1427

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBSD01

Tot Ion: 75 Resp: 71176

Ion Ratio Lower Upper

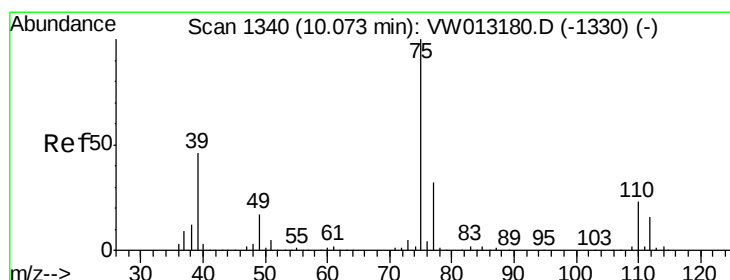
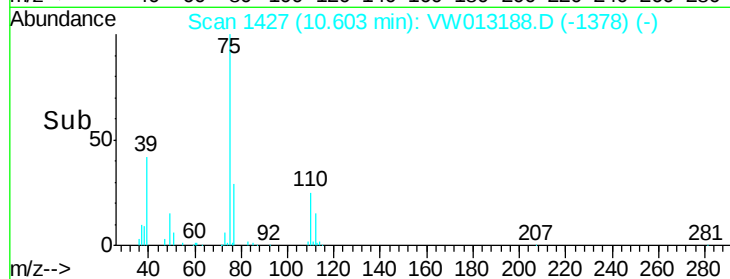
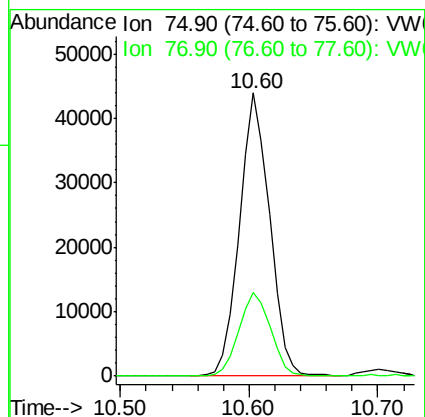
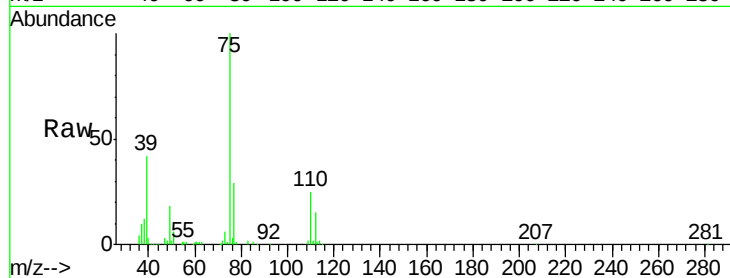
75 100

77 29.4 25.5 38.3

Manual Integrations
APPROVED

MMDadoda

9/24/2019 5:28:55 AM



#54

cis-1,3-Dichloropropene

Concen: 20.965 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

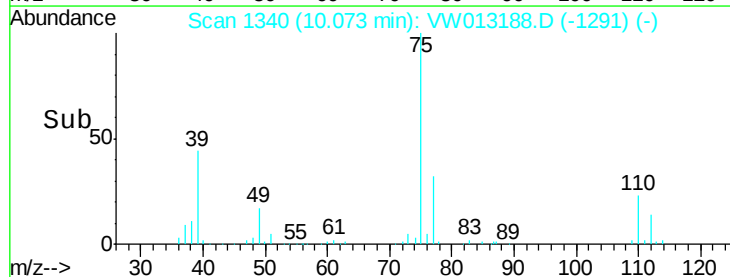
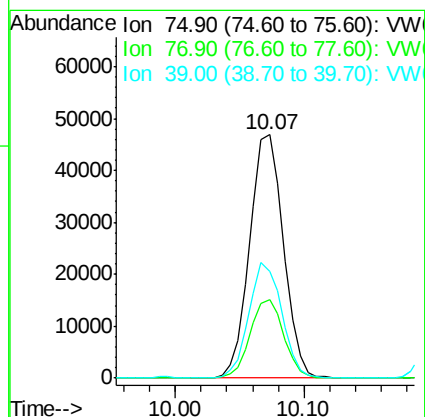
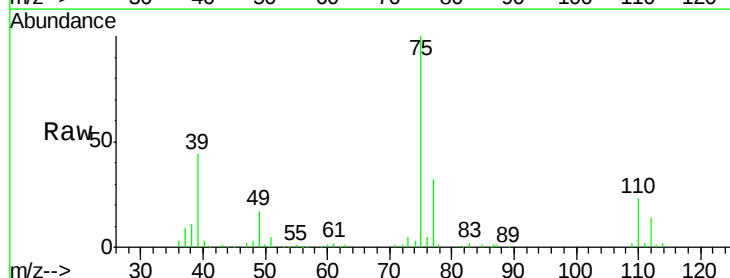
Tgt Ion: 75 Resp: 84978

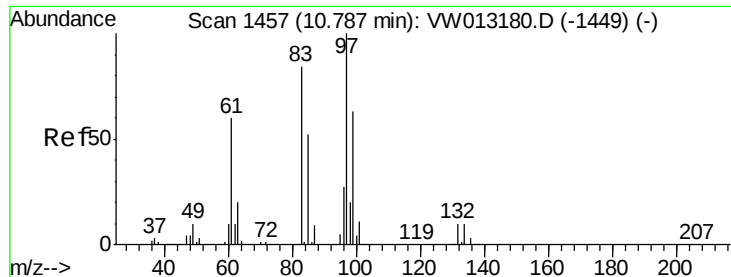
Ion Ratio Lower Upper

75 100

77 32.3 25.2 37.8

39 43.8 36.6 55.0





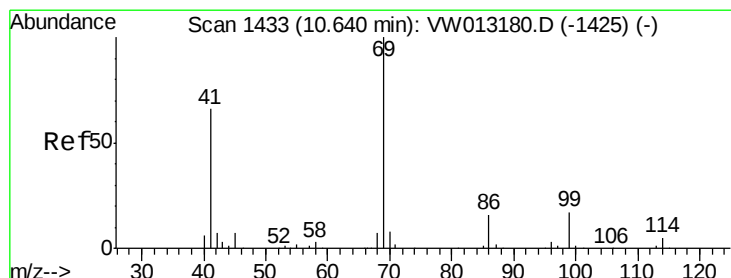
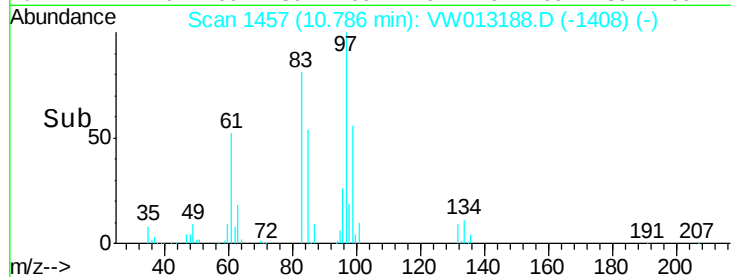
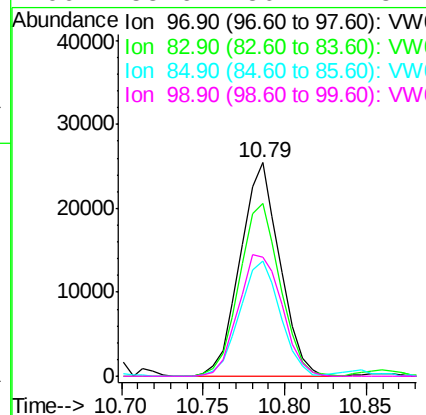
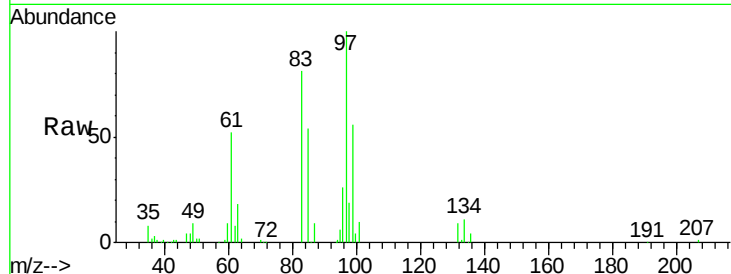
#55
 1,1,2-Trichloroethane
 Concen: 22.565 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0920SBS01

Tot Ion:	97	Resp:	43010
Ion	Ratio	Lower	Upper
97	100		
83	81.0	67.6	101.4
85	53.8	41.9	62.9
99	55.6	50.1	75.1

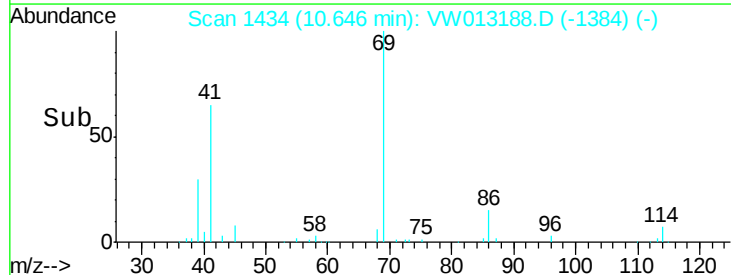
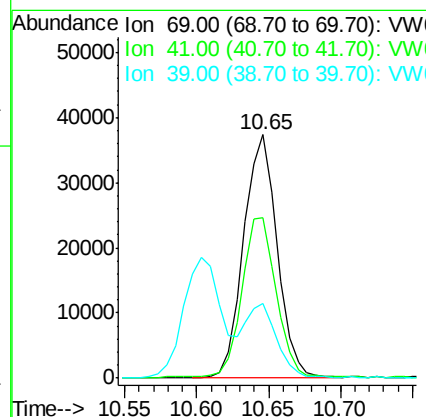
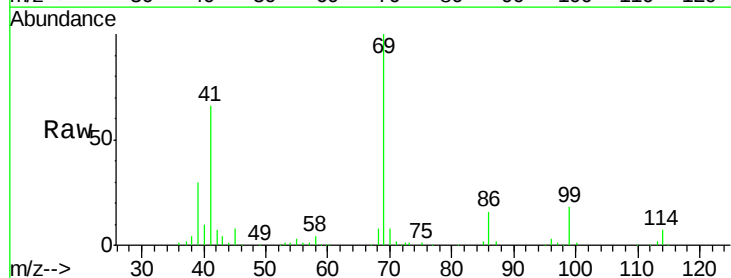
Manual Integrations
 APPROVED

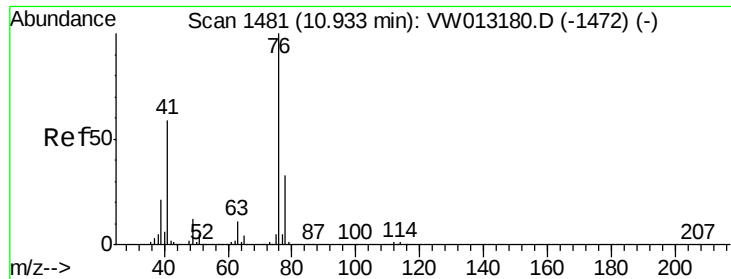
MMDadoda
 9/24/2019 5:28:55 AM



#56
 Ethyl methacrylate
 Concen: 24.285 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. 0.01 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Tgt Ion:	69	Resp:	60580
Ion	Ratio	Lower	Upper
69	100		
41	67.0	53.9	80.9
39	28.4	23.8	35.6





#57

1,3-Dichloropropane

Concen: 22.635 ug/l

RT: 10.93 min Scan# 1481

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBS01

Tot Ion: 76 Resp: 75287

Ion Ratio Lower Upper

76 100

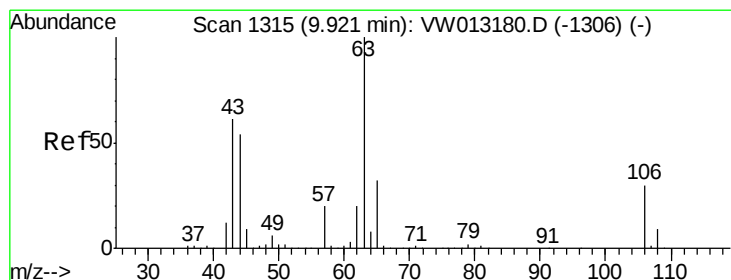
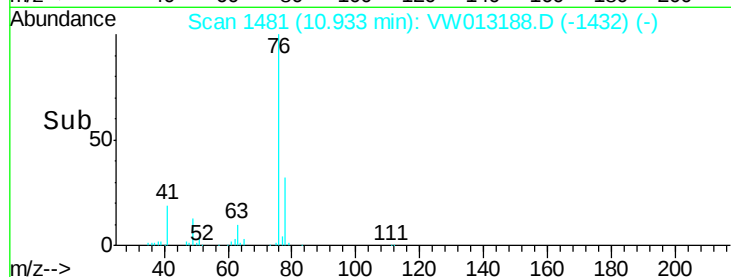
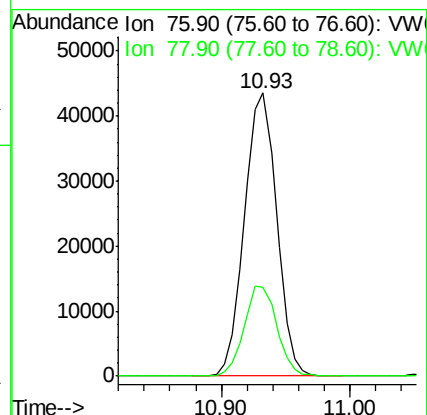
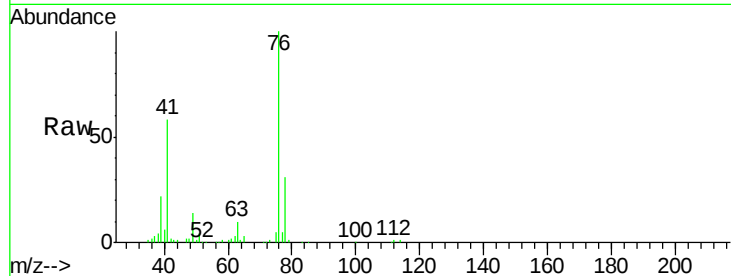
78 32.3 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:28:55 AM



#58

2-Chloroethyl Vinyl ether

Concen: 119.743 ug/l

RT: 9.92 min Scan# 1315

Delta R.T. -0.00 min

Lab File: VW013188.D

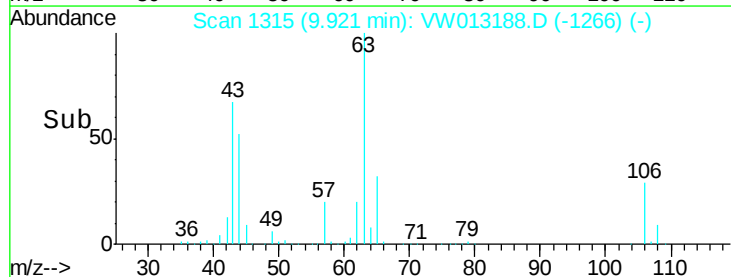
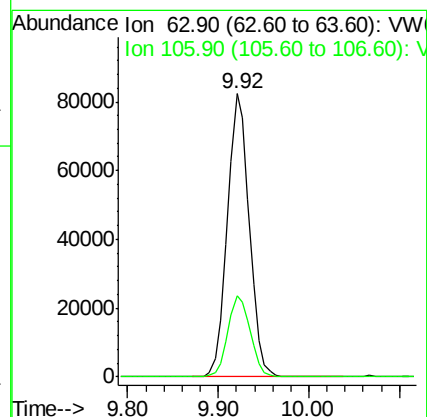
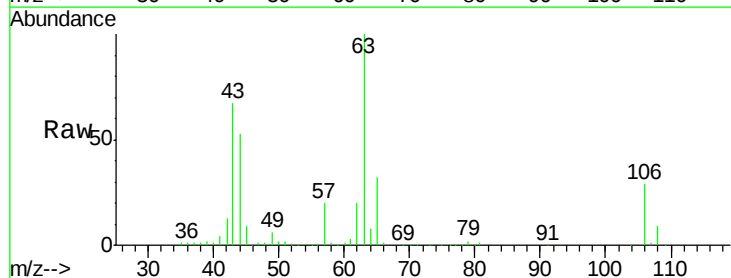
Acq: 20 Sep 2019 17:59

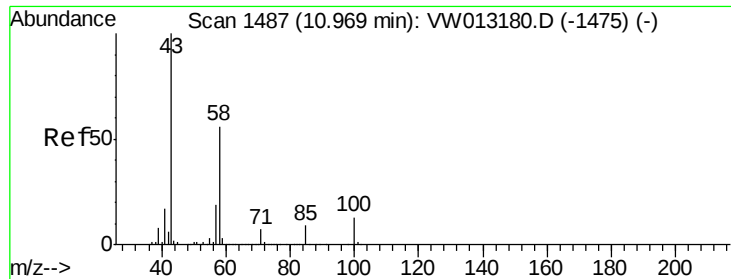
Tgt Ion: 63 Resp: 138281

Ion Ratio Lower Upper

63 100

106 29.2 23.4 35.0





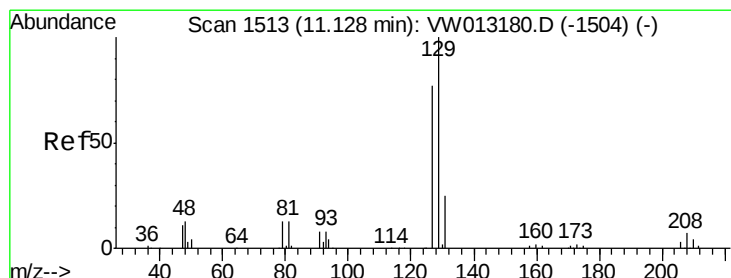
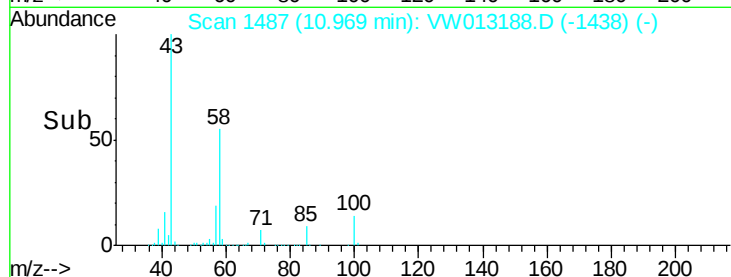
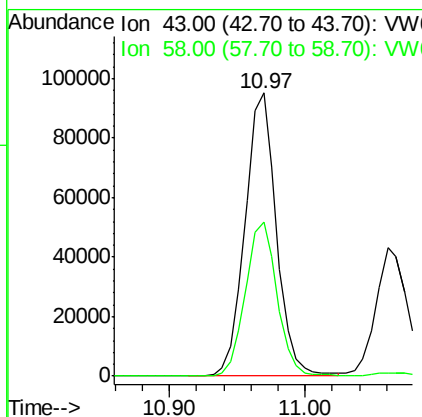
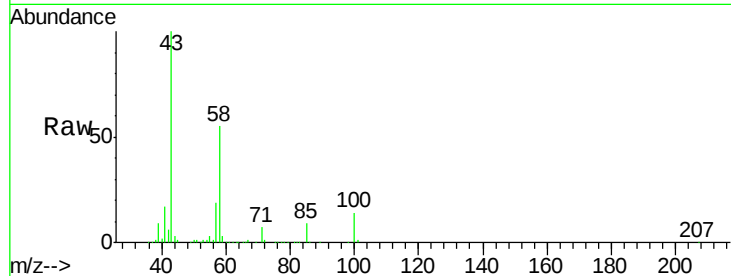
#59
2-Hexanone
Concen: 141.896 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBSD01

Tot Ion: 43 Resp: 153764
Ion Ratio Lower Upper
43 100
58 55.3 28.1 84.2

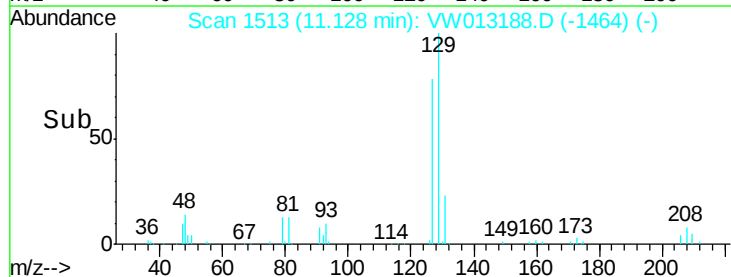
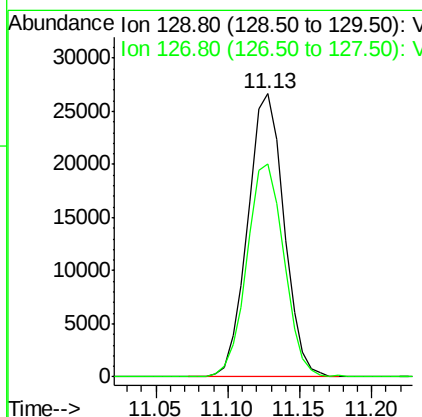
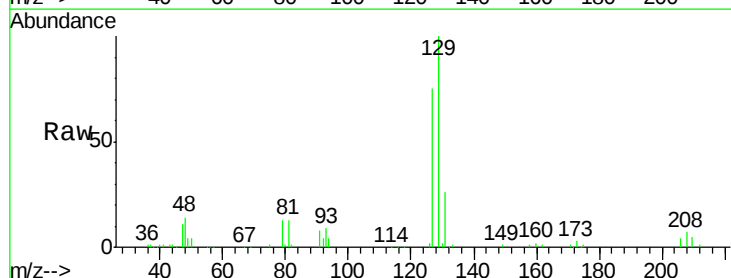
Manual Integrations
APPROVED

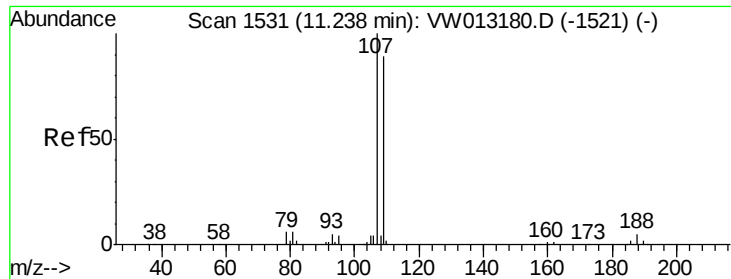
MMDadoda
9/24/2019 5:28:55 AM



#60
Dibromochloromethane
Concen: 21.442 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion: 129 Resp: 46407
Ion Ratio Lower Upper
129 100
127 77.2 38.8 116.4





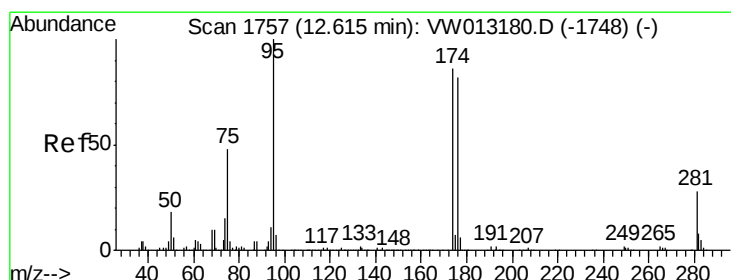
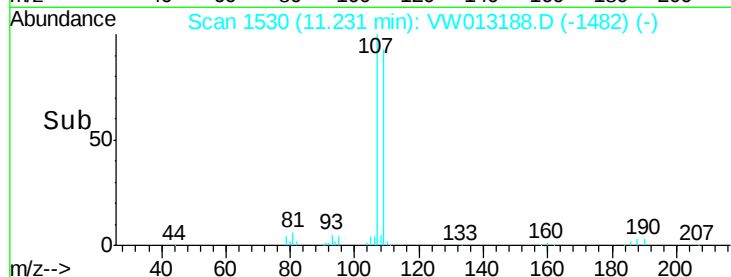
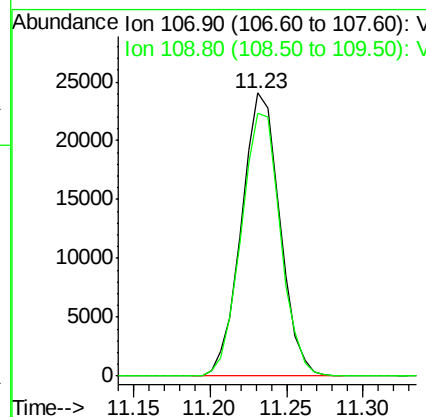
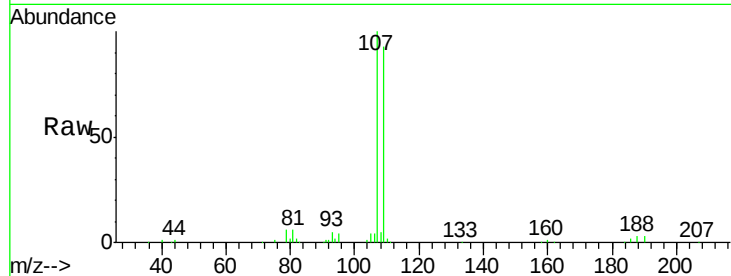
#61
 1,2-Dibromoethane
 Concen: 23.139 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.01 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0920SBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.0	75.2	112.8

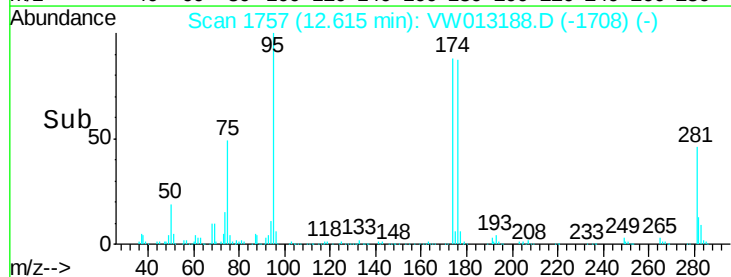
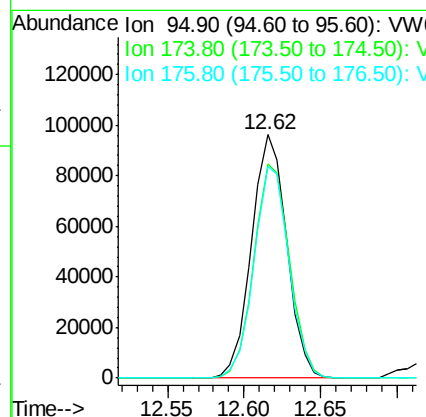
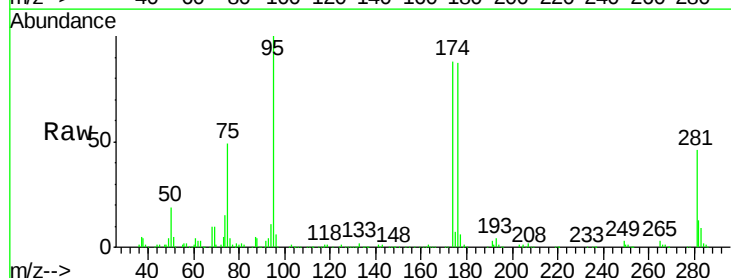
Manual Integrations
 APPROVED

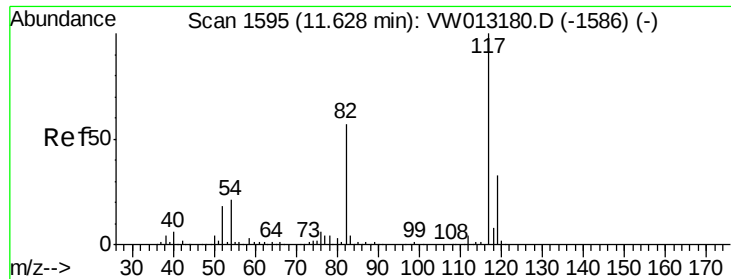
MMDadoda
 9/24/2019 5:28:55 AM



#62
 4-Bromofluorobenzene
 Concen: 49.267 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Lower	Upper
95	100		
174	89.1	0.0	178.4
176	86.5	0.0	172.2





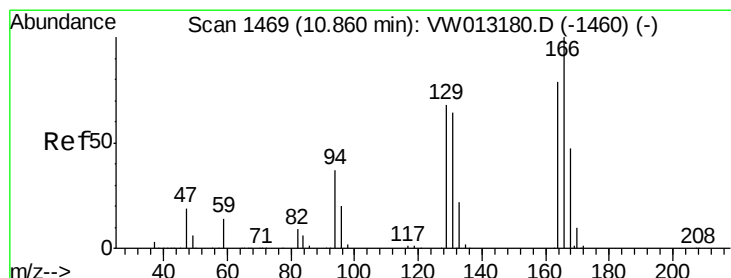
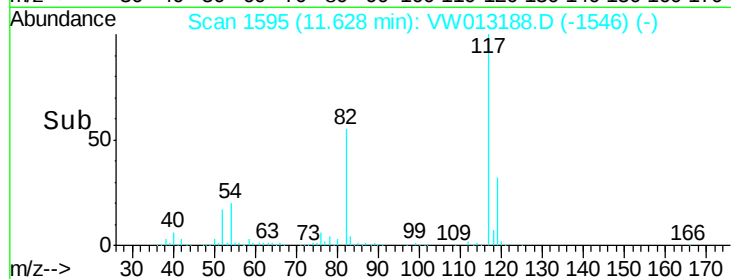
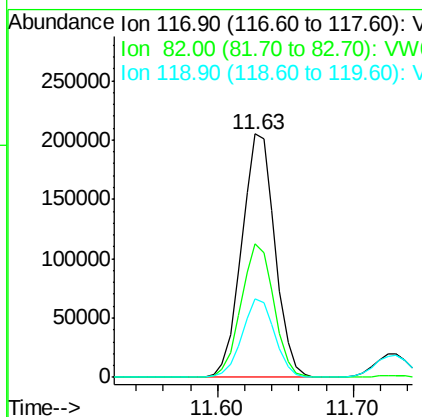
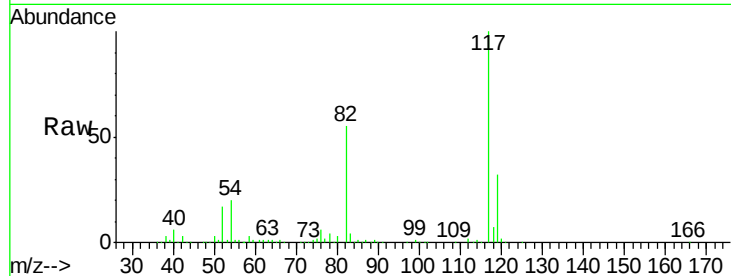
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1595
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100	349748		
82	54.6	45.9	68.9	
119	32.3	26.2	39.2	

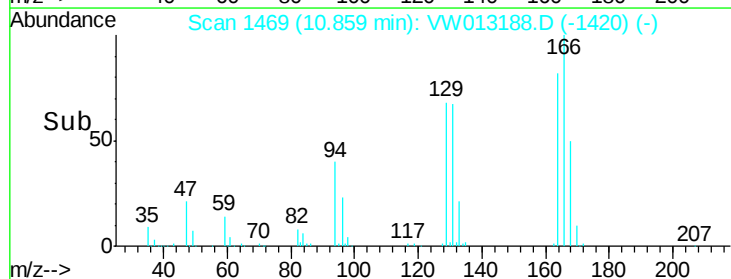
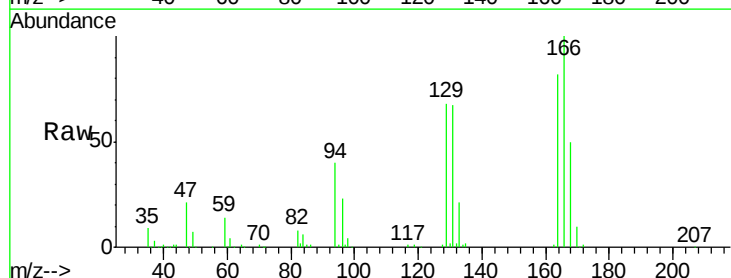
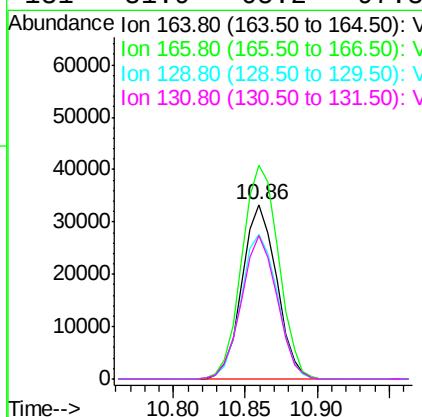
Manual Integrations
APPROVED

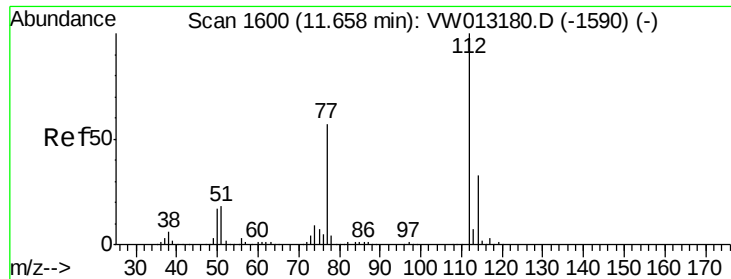
MMDadoda
9/24/2019 5:28:55 AM



#64
Tetrachloroethene
Concen: 20.864 ug/l
RT: 10.86 min Scan# 1469
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	55366		
166	122.5	101.2	151.8	
129	82.7	68.8	103.2	
131	81.9	65.2	97.8	





#65

Chlorobenzene

Concen: 20.430 ug/l

RT: 11.65 min Scan# 1599

Delta R.T. -0.01 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBSD01

Tot Ion:112 Resp: 149211

Ion Ratio Lower Upper

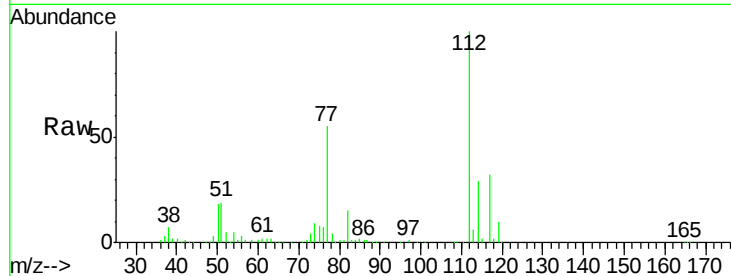
112 100

114 28.5 26.5 39.7

Manual Integrations
APPROVED

MMDadoda

9/24/2019 5:28:55 AM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.65

80000

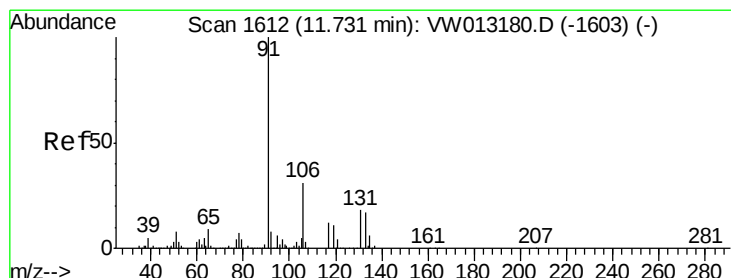
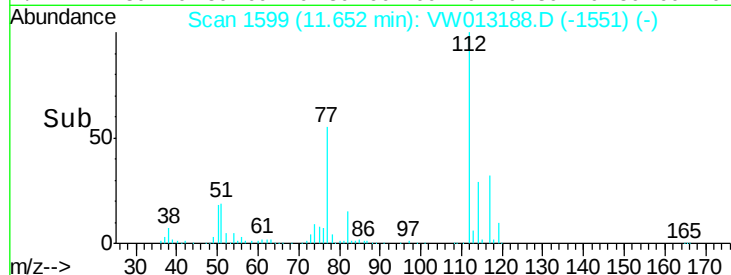
60000

40000

20000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 20.436 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

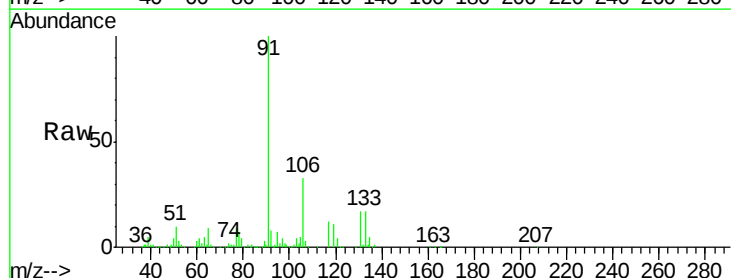
Tgt Ion:131 Resp: 50989

Ion Ratio Lower Upper

131 100

133 98.2 47.5 142.6

119 63.3 32.5 97.5



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

80000

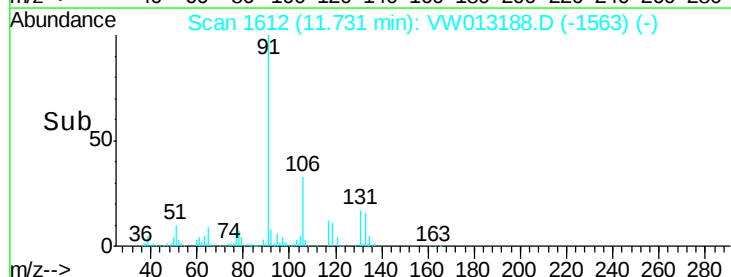
60000

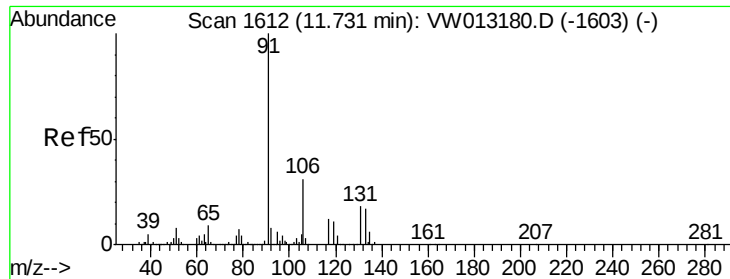
40000

20000

0

Time-->





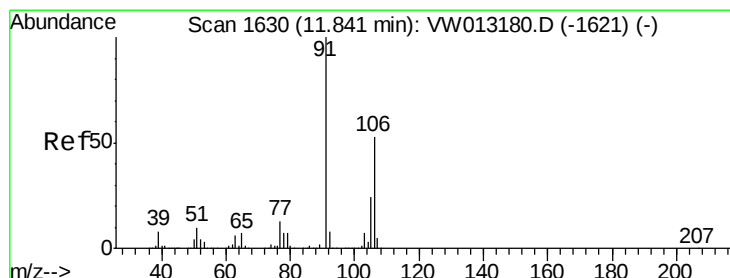
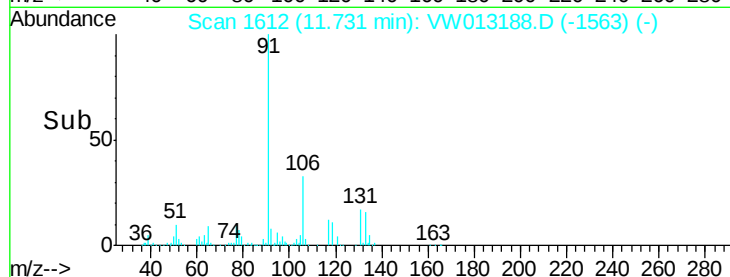
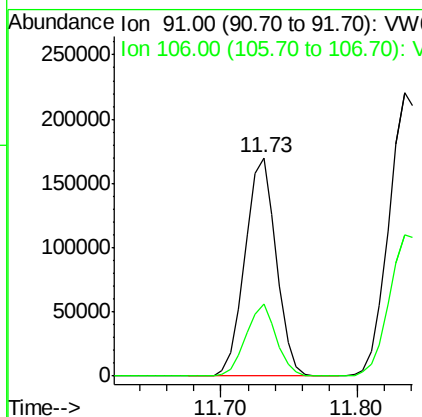
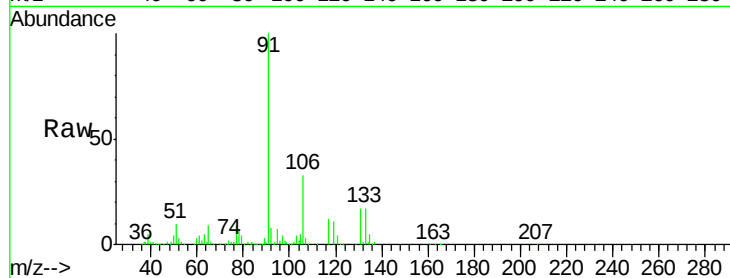
#67
Ethyl Benzene
Concen: 20.603 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBS01

Tot Ion: 91 Resp: 272643
Ion Ratio Lower Upper
91 100
106 33.0 24.9 37.3

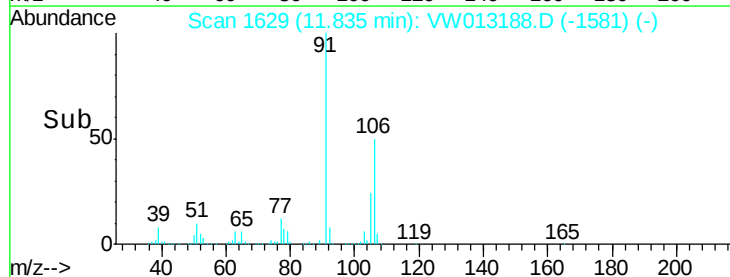
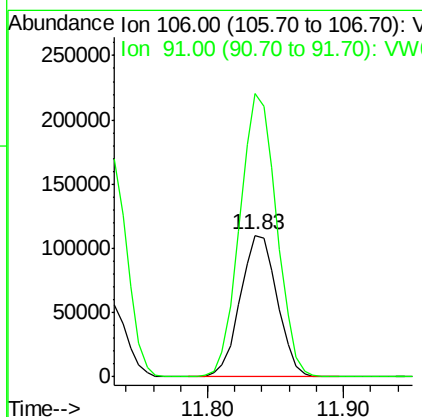
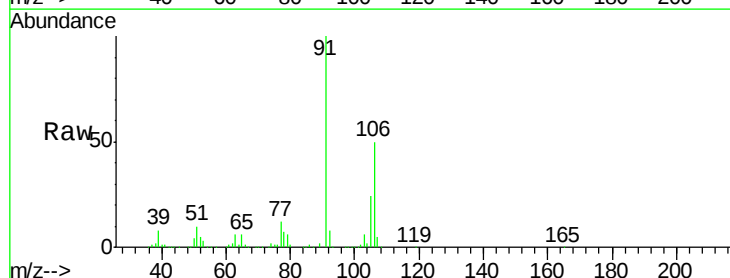
Manual Integrations
APPROVED

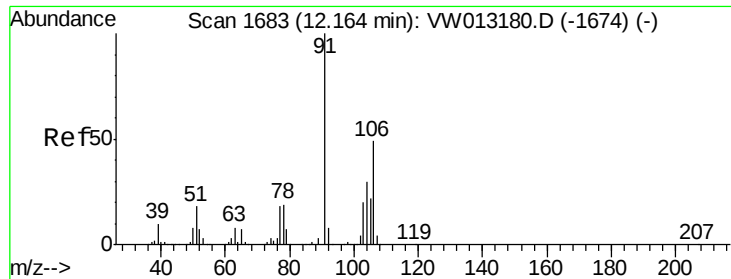
MMDadoda
9/24/2019 5:28:55 AM



#68
m/p-Xylenes
Concen: 41.514 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion: 106 Resp: 209338
Ion Ratio Lower Upper
106 100
91 198.4 157.9 236.9





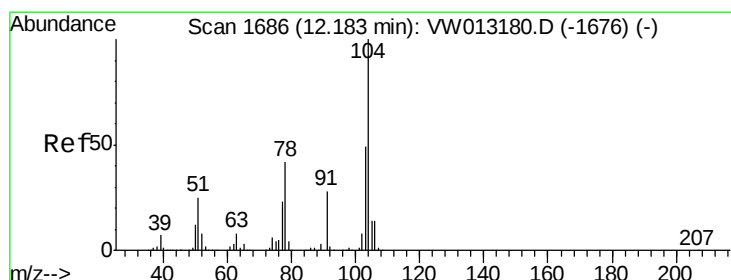
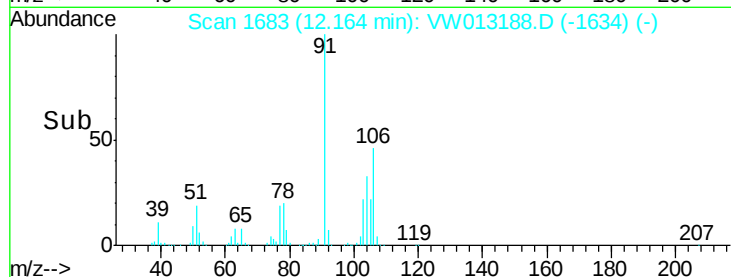
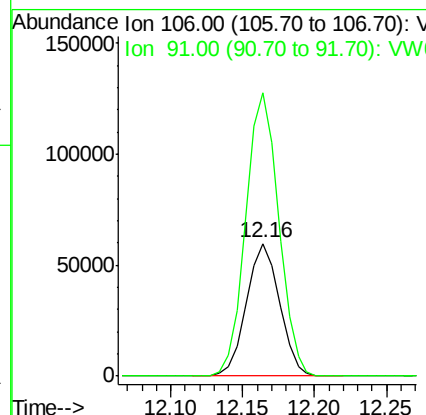
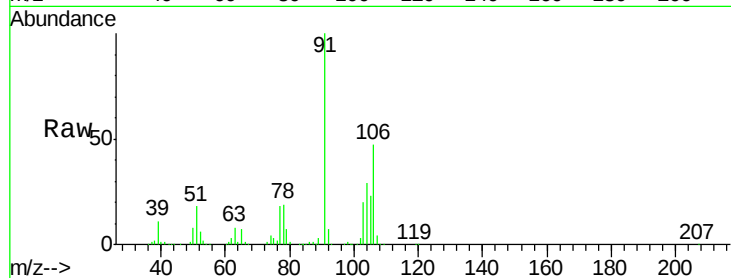
#69
o-Xylene
Concen: 20.291 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	213.1	106.5	319.5

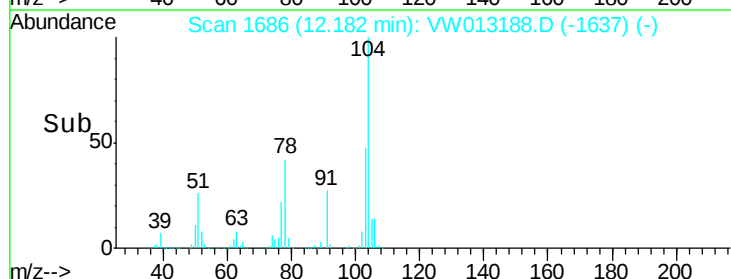
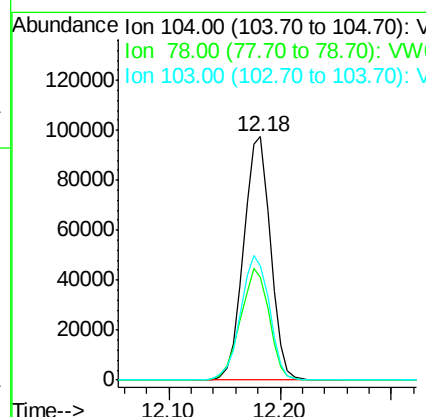
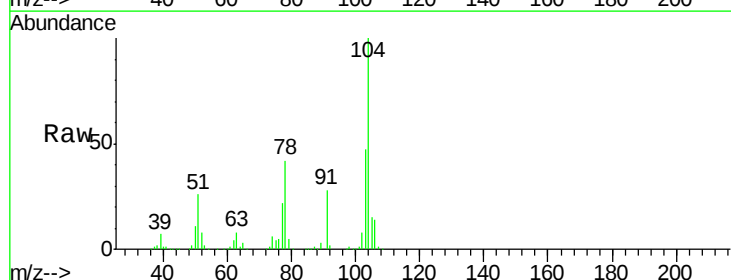
Manual Integrations
APPROVED

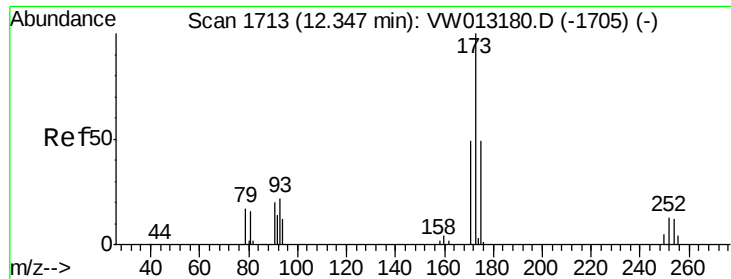
MMDadoda
9/24/2019 5:28:55 AM



#70
Styrene
Concen: 20.234 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Lower	Upper
104	100		
78	49.1	38.4	57.6
103	54.7	43.3	64.9





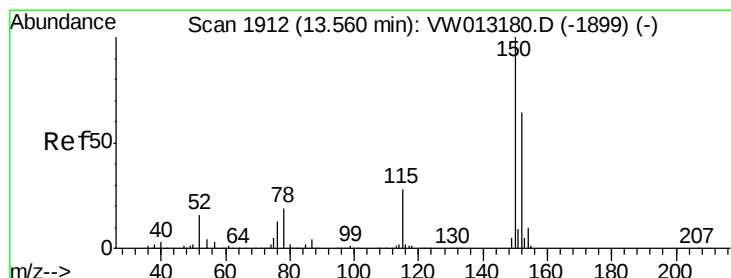
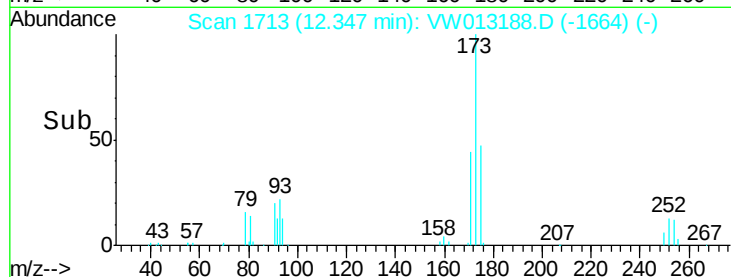
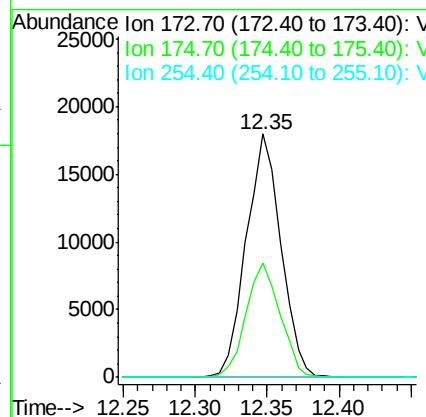
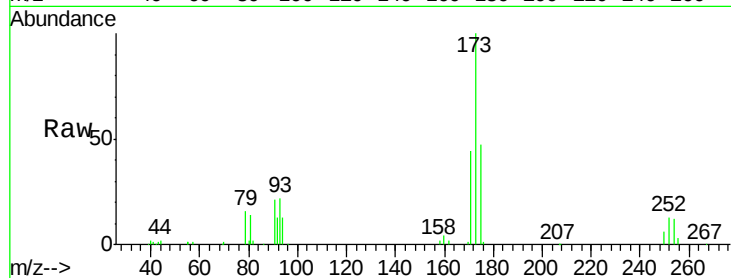
#71
Bromoform
Concen: 22.754 ug/l
RT: 12.35 min Scan# 1713
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBSD01

Tot Ion	Ratio	Lower	Upper
173	100		
175	46.1	24.3	73.0
254	0.0	0.1	0.1#

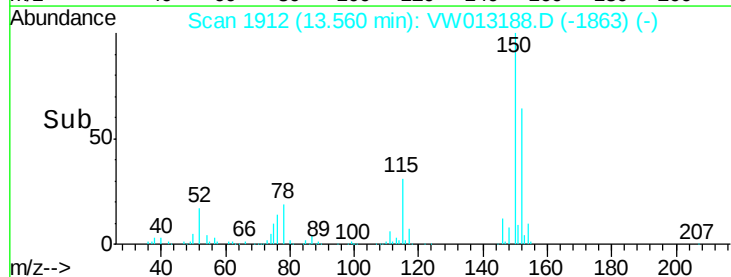
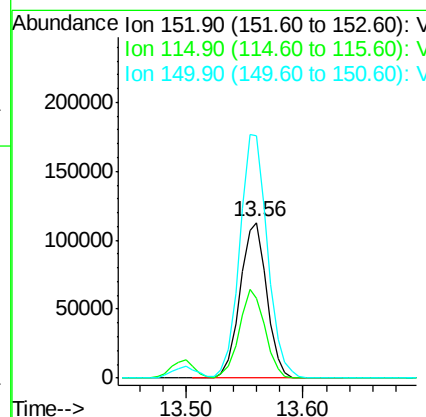
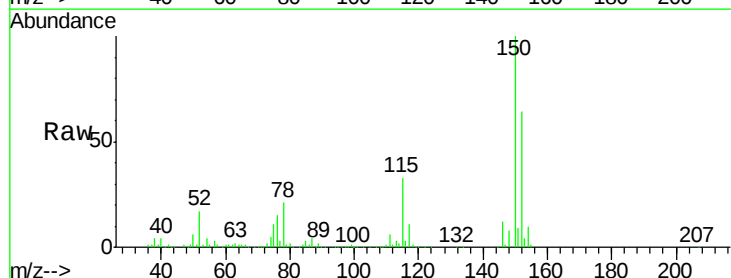
Manual Integrations
APPROVED

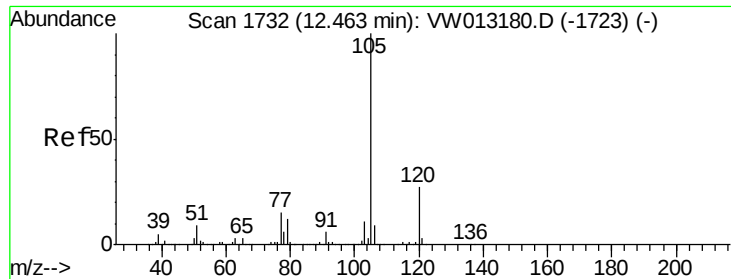
MMDadoda
9/24/2019 5:28:55 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.56 min Scan# 1912
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.2	27.3	81.9
150	163.5	0.0	349.0





#73

Isopropylbenzene

Concen: 20.620 ug/l

RT: 12.46 min Scan# 1732

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBS01

Tot Ion:105 Resp: 273322

Ion Ratio Lower Upper

105 100

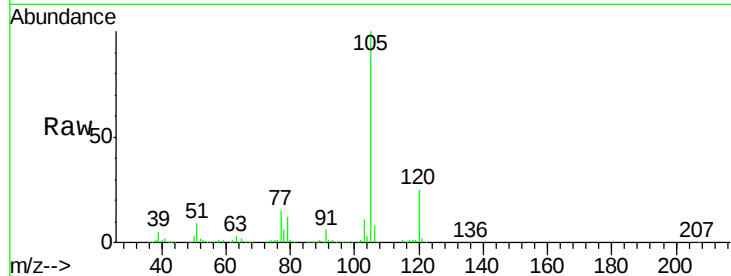
120 25.9 13.4 40.1

Manual Integrations

APPROVED

MMDadoda

9/24/2019 5:28:55 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

200000

150000

100000

50000

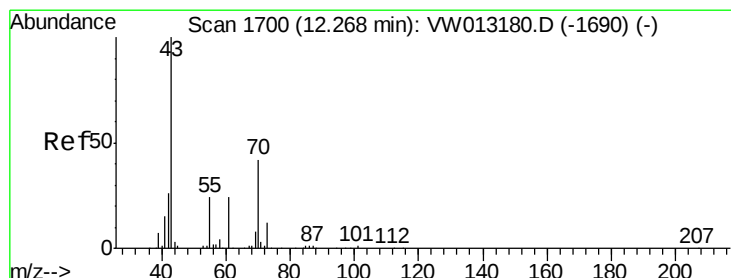
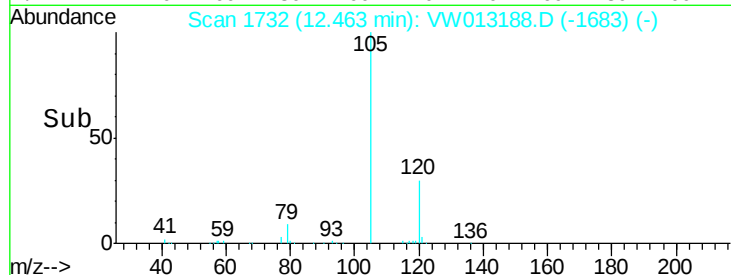
0

12.46

12.40

12.50

Time-->



#74

N-ethyl acetate

Concen: 23.977 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. 0.01 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Tgt Ion: 43 Resp: 70525

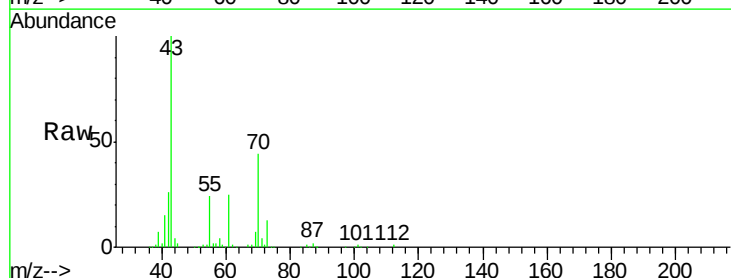
Ion Ratio Lower Upper

43 100

70 43.1 35.1 52.7

55 24.9 19.9 29.9

61 25.1 19.5 29.3



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 70.00 (69.70 to 70.70): VW

Ion 55.00 (54.70 to 55.70): VW

Ion 61.00 (60.70 to 61.70): VW

60000

40000

20000

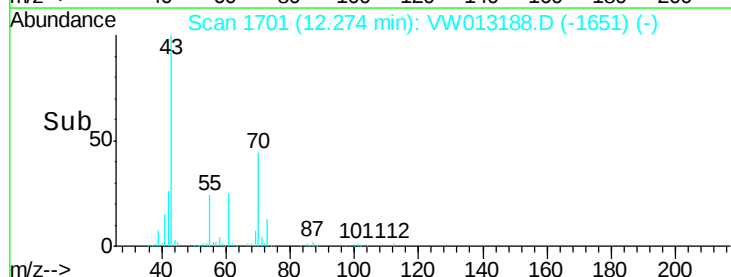
0

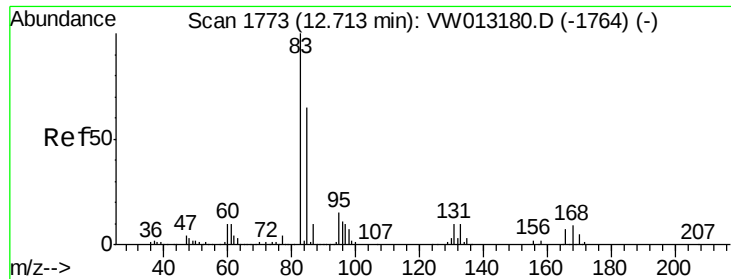
12.27

12.20

12.30

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 24.165 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

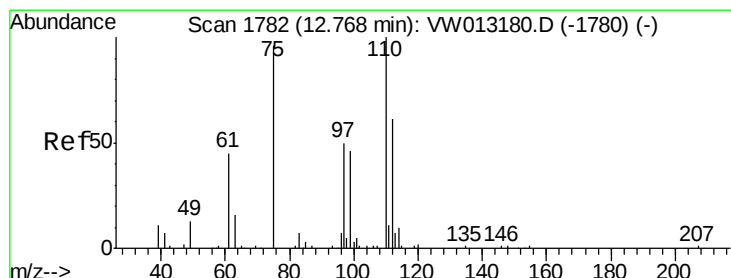
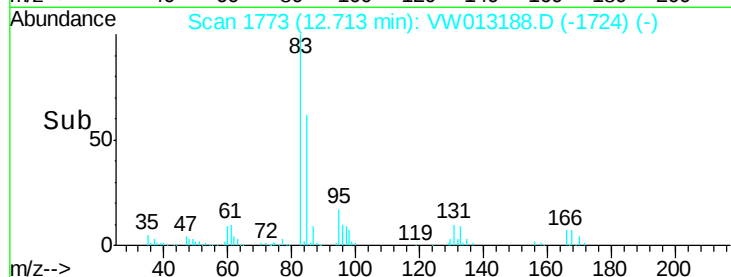
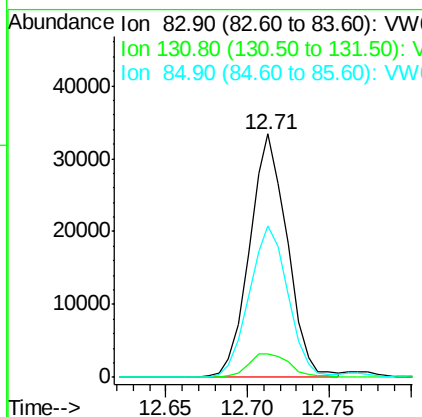
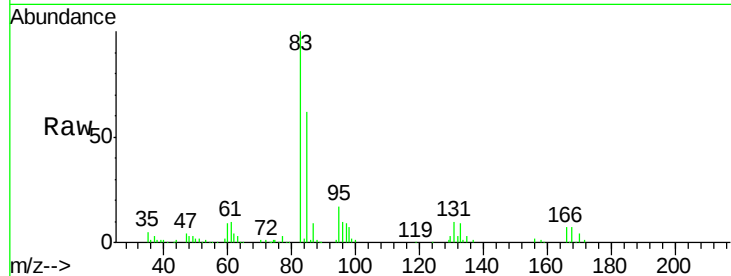
ClientSampleId :

VW0920SBSD01

Tot Ion:	83	Resp:	53571
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.4	16.2
85	63.8	31.9	95.9

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:28:55 AM



#76

1,2,3-Trichloropropane

Concen: 21.418 ug/l m

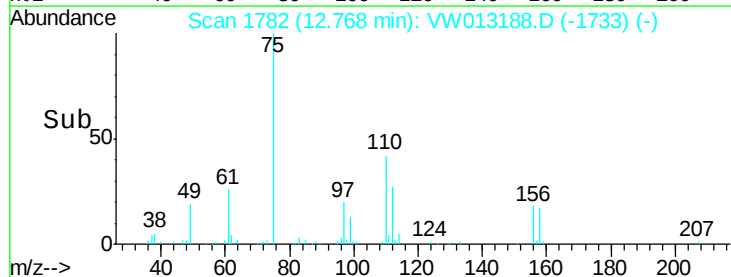
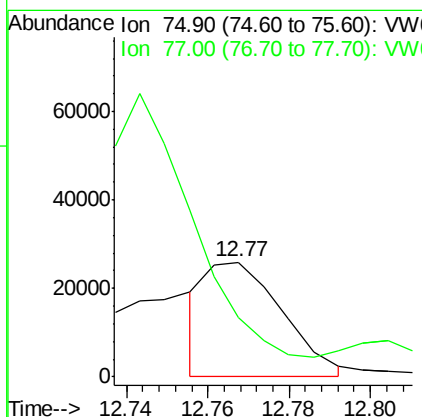
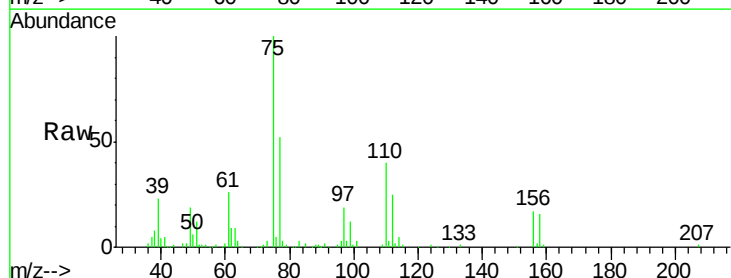
RT: 12.77 min Scan# 1782

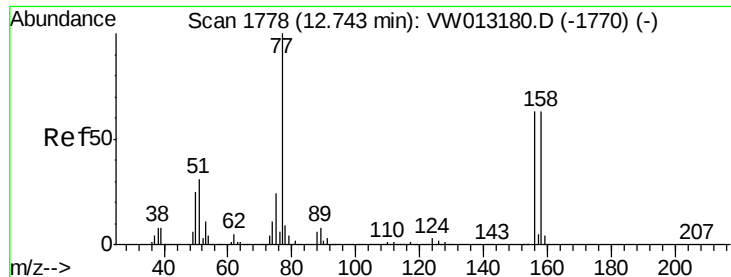
Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Tgt Ion:	75	Resp:	33941
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.756 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBSD01

Tot Ion:156 Resp: 65196

Ion Ratio Lower Upper

156 100

77 176.8 85.7 257.1

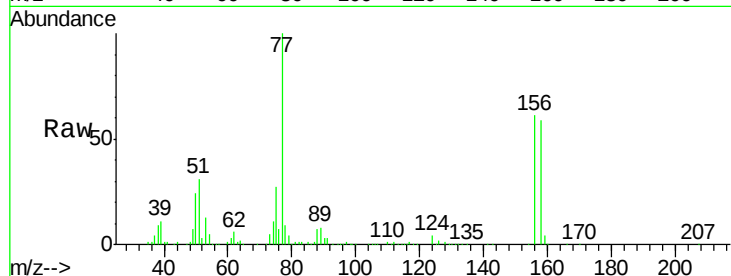
158 95.1 48.1 144.4

Manual Integrations

APPROVED

MMDadoda

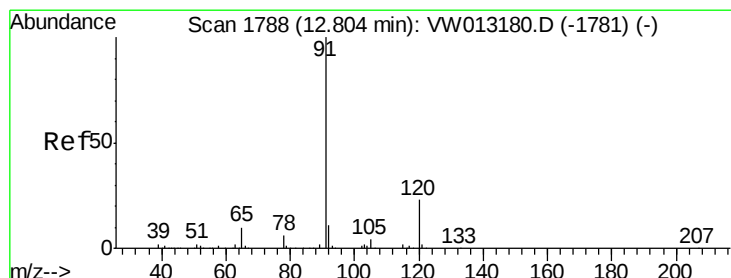
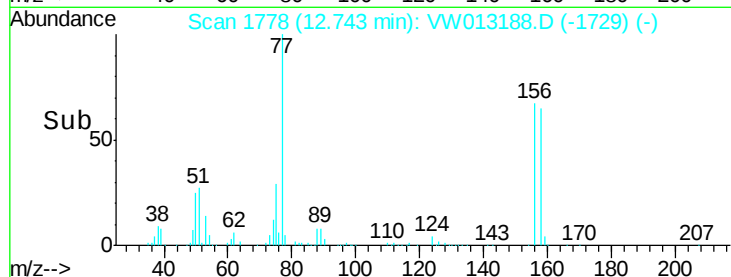
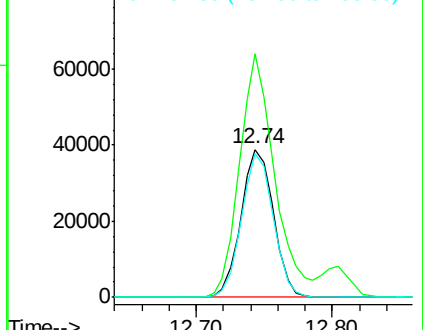
9/24/2019 5:28:55 AM



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: 20.734 ug/l

RT: 12.80 min Scan# 1788

Delta R.T. -0.00 min

Lab File: VW013188.D

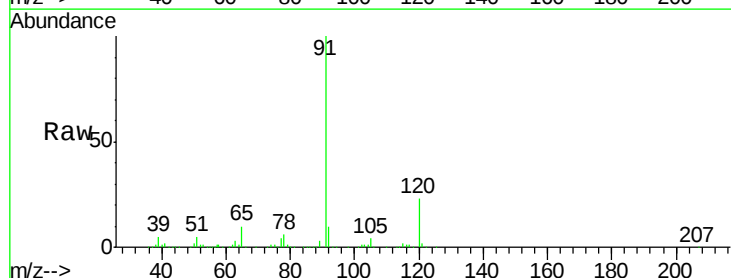
Acq: 20 Sep 2019 17:59

Tgt Ion: 91 Resp: 321708

Ion Ratio Lower Upper

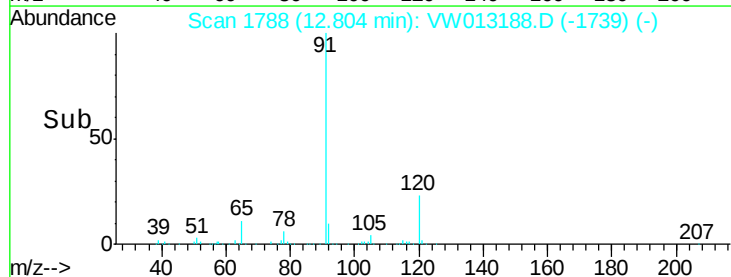
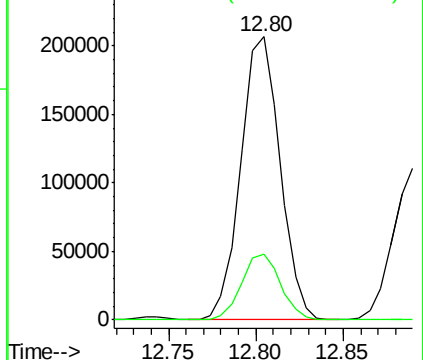
91 100

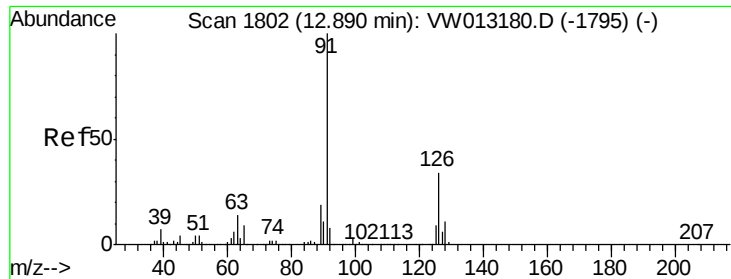
120 23.1 11.7 35.1



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 20.589 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBSD01

Tot Ion: 91 Resp: 178971

Ion Ratio Lower Upper

91 100

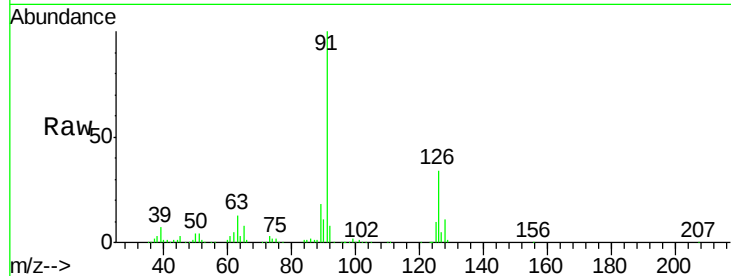
126 33.4 17.2 51.5

Manual Integrations

APPROVED

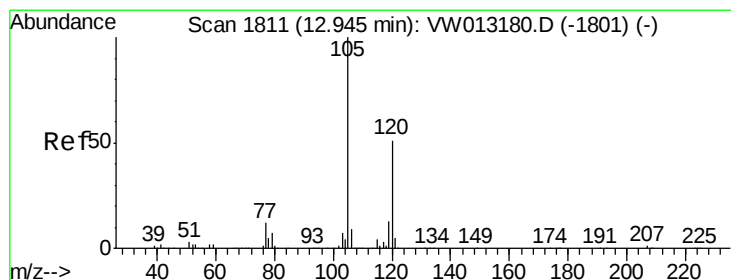
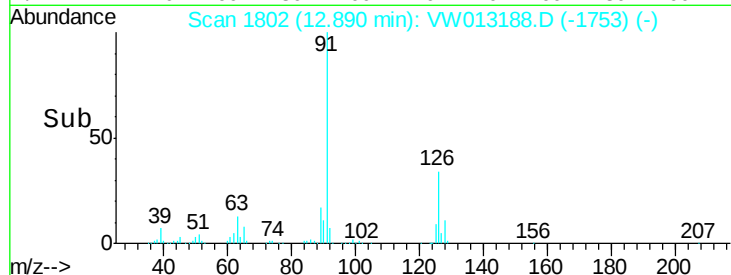
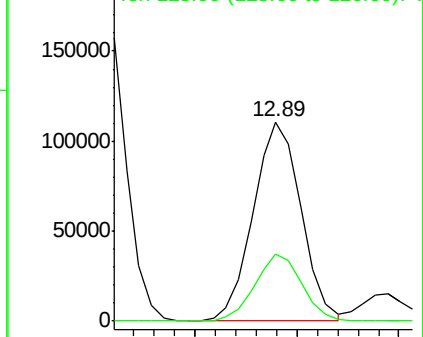
MMDadoda

9/24/2019 5:28:55 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: 20.575 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW013188.D

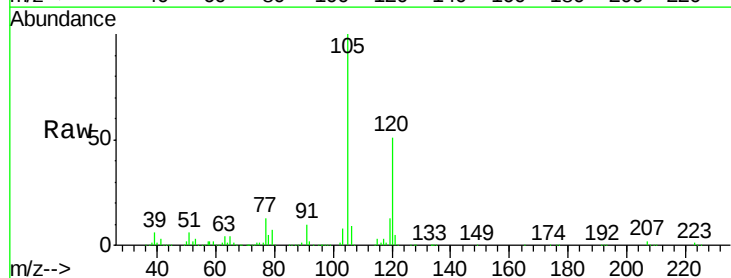
Acq: 20 Sep 2019 17:59

Tgt Ion:105 Resp: 229259

Ion Ratio Lower Upper

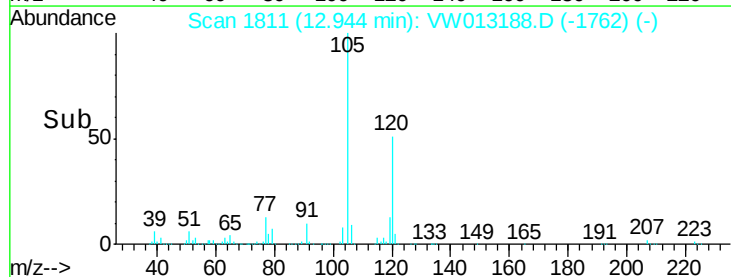
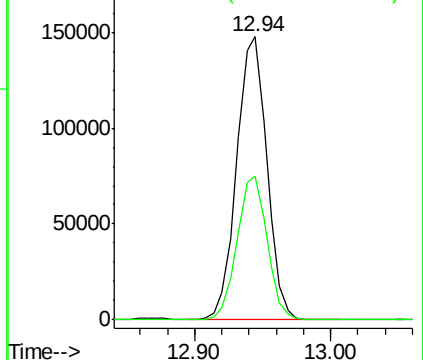
105 100

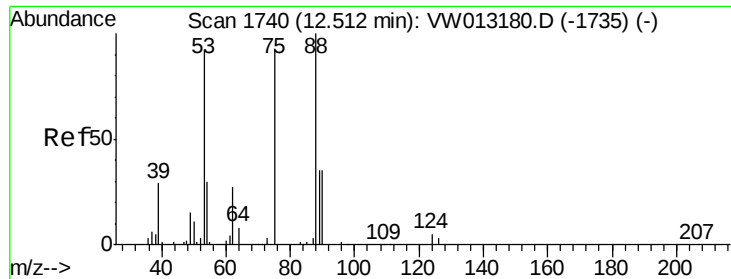
120 50.3 24.9 74.8



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





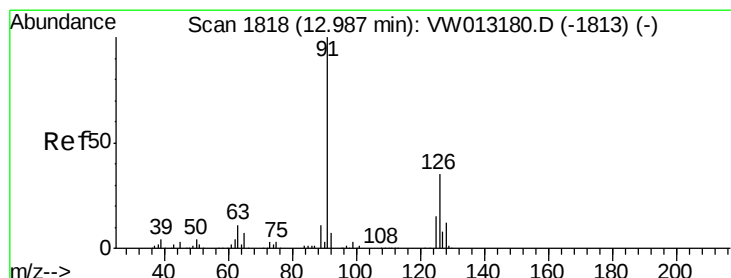
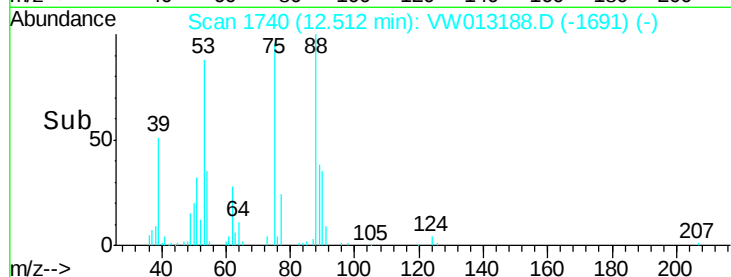
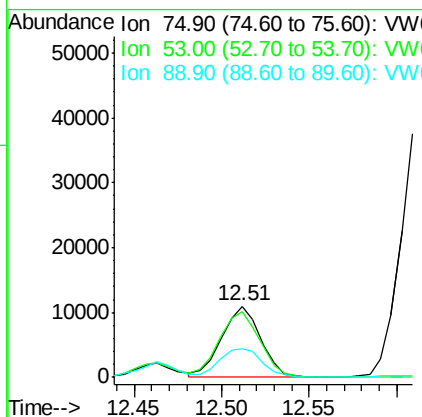
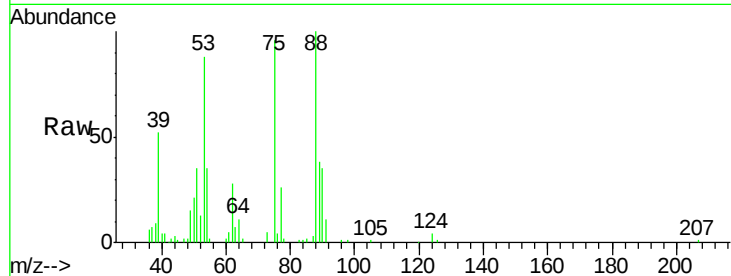
#81
trans-1,4-Dichloro-2-butene
Concen: 24.211 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	96.1	76.6	114.8
89	43.8	33.5	50.3

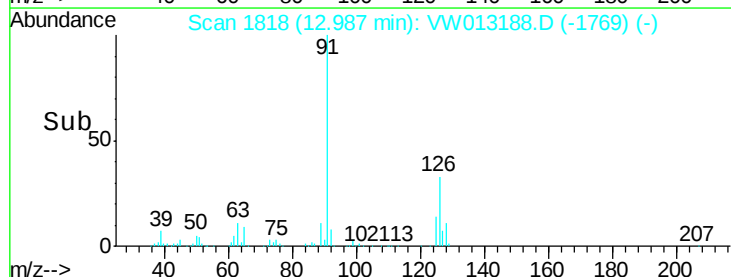
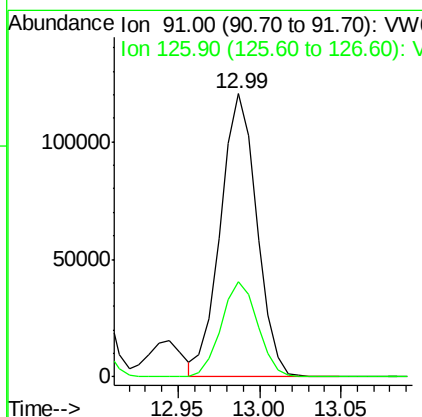
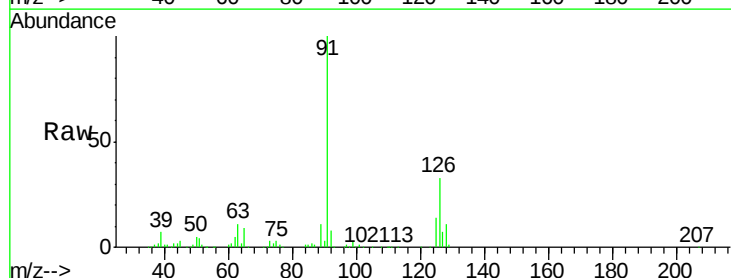
Manual Integrations
APPROVED

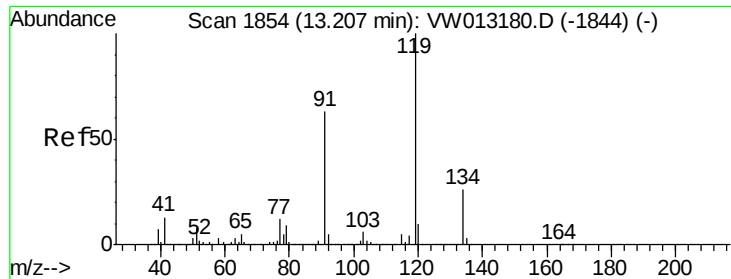
MMDadoda
9/24/2019 5:28:55 AM



#82
4-Chlorotoluene
Concen: 20.367 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.8	17.3	51.7





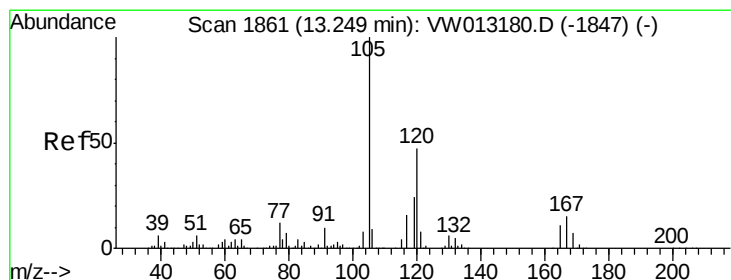
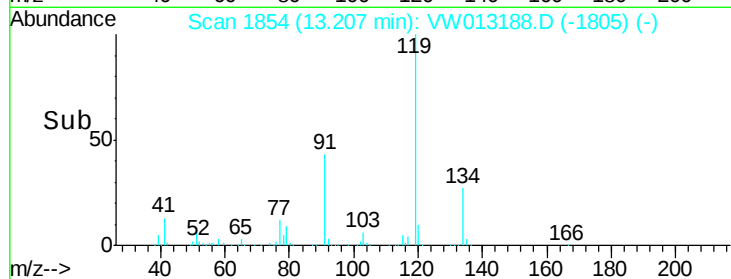
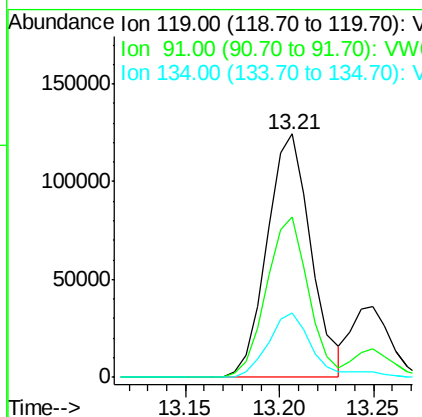
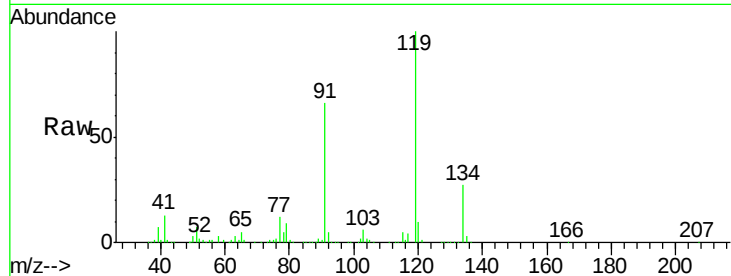
#83
tert-Butylbenzene
Concen: 20.575 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	201220		
91	62.9	30.7	92.1	
134	27.3	12.6	37.6	

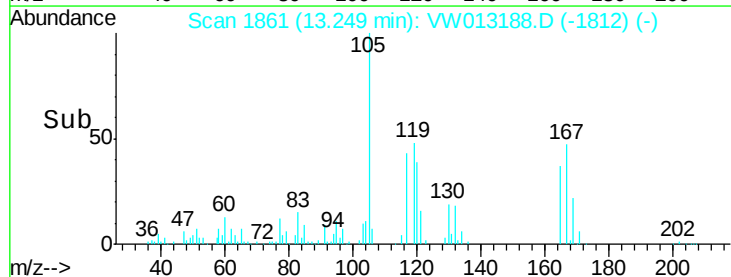
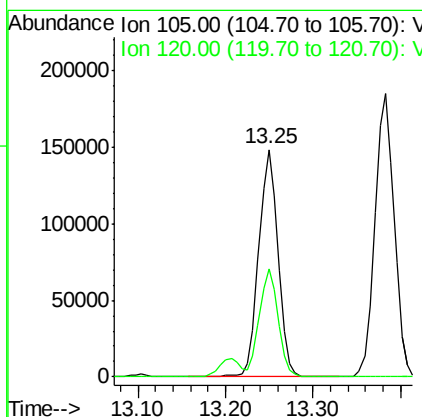
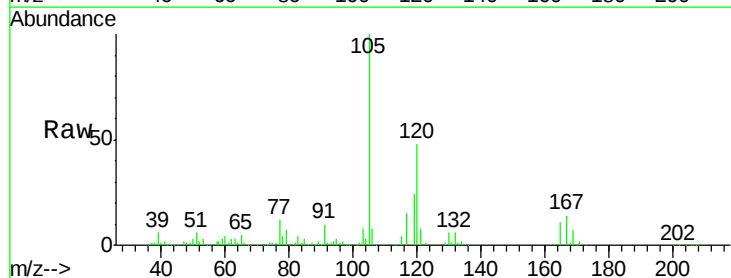
Manual Integrations
APPROVED

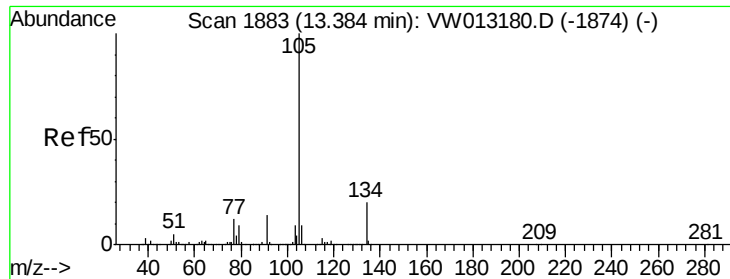
MMDadoda
9/24/2019 5:28:55 AM



#84
1,2,4-Trimethylbenzene
Concen: 20.602 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	228435		
120	45.9	23.4	70.3	





#85

sec-Butylbenzene

Concen: 20.944 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

ClientSampleId :

VW0920SBSD01

Tot Ion:105 Resp: 282389

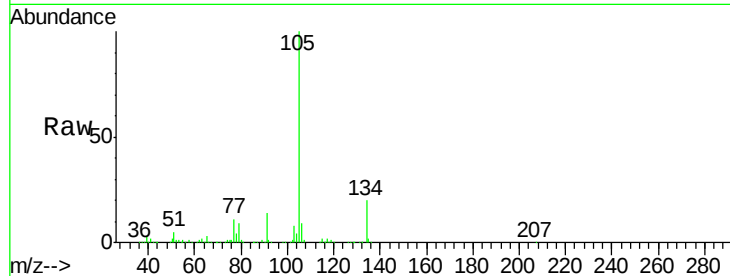
Ion Ratio Lower Upper

105 100

134 20.4 10.3 30.8

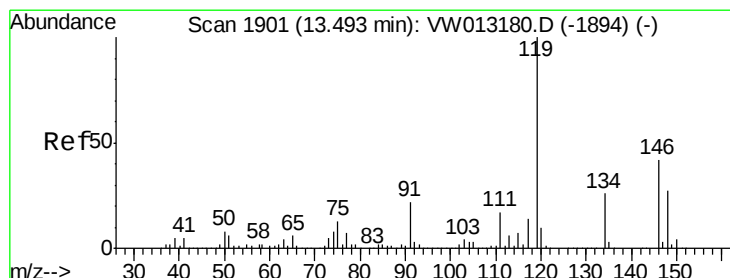
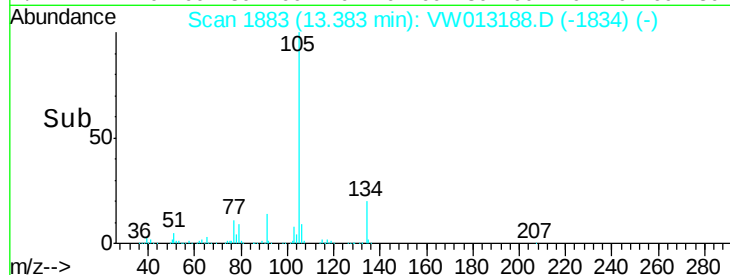
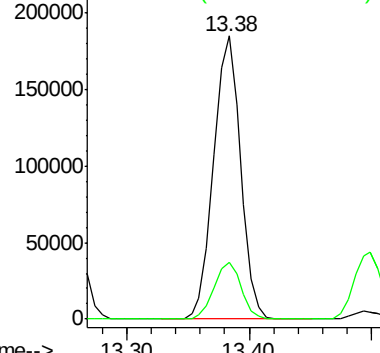
Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:28:55 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 20.636 ug/l

RT: 13.49 min Scan# 1901

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

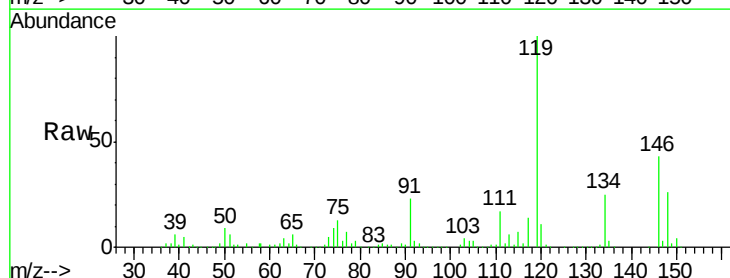
Tgt Ion:119 Resp: 258069

Ion Ratio Lower Upper

119 100

134 26.5 13.3 39.8

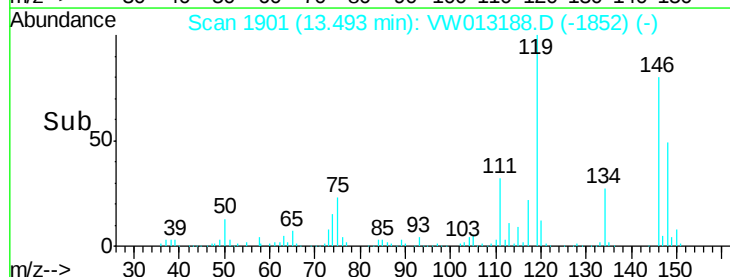
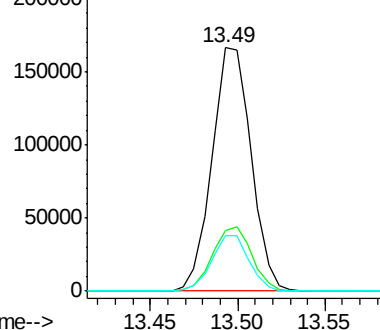
91 22.1 10.8 32.4

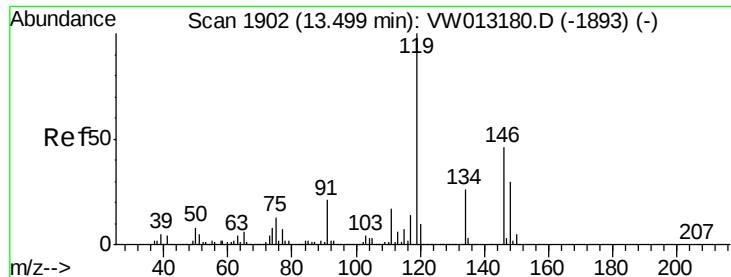


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





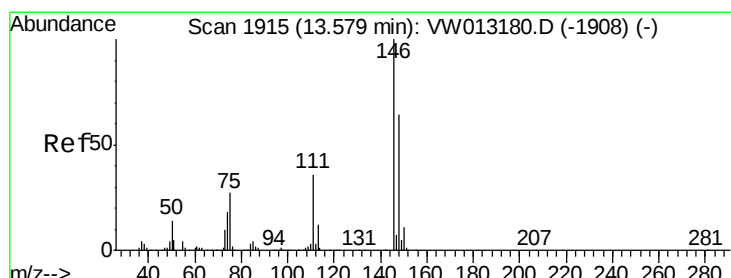
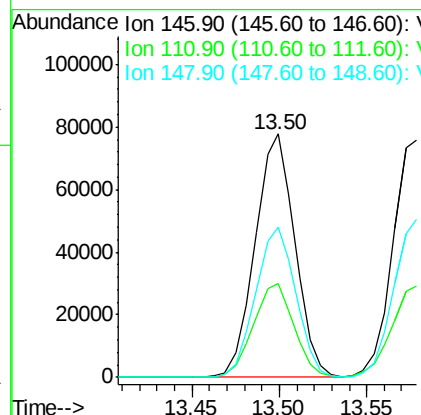
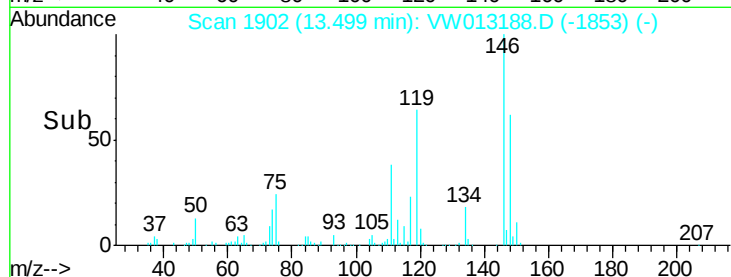
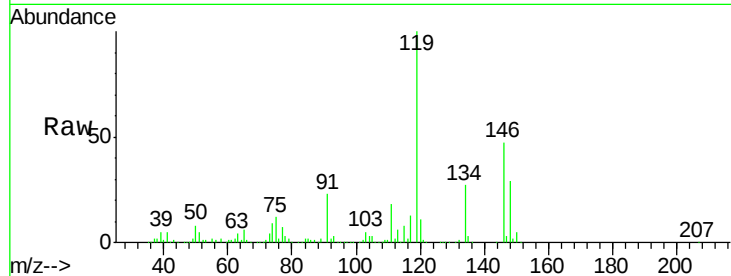
#87
 1,3-Dichlorobenzene
 Concen: 20.329 ug/l
 RT: 13.50 min Scan# 1902
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	122895		
111	39.4	18.9	56.9	
148	62.6	31.9	95.5	

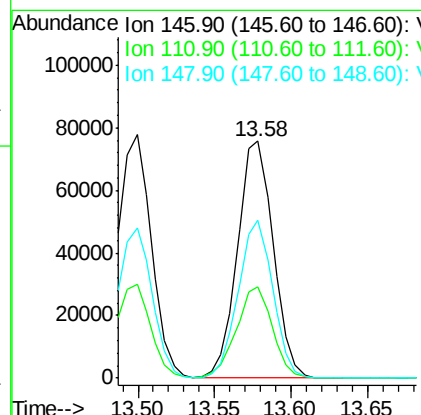
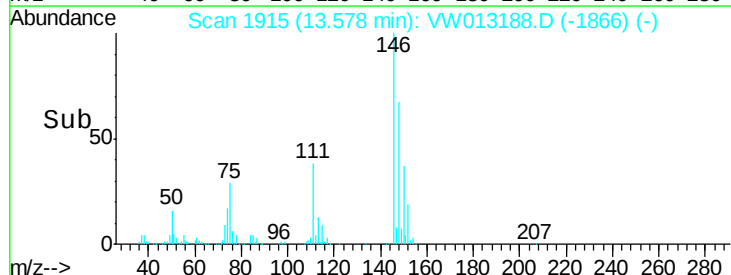
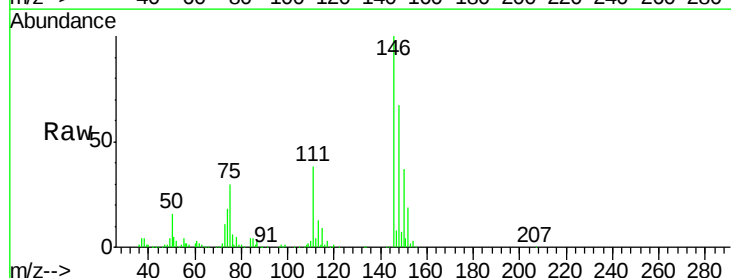
Manual Integrations
 APPROVED

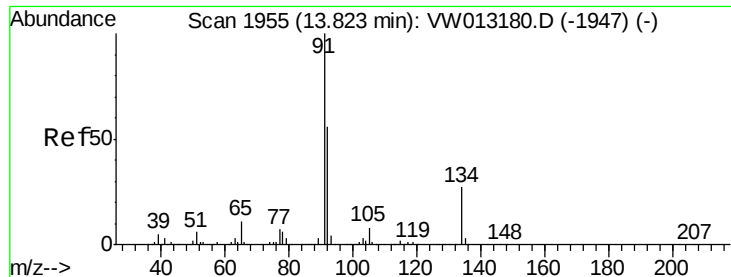
MMDadoda
 9/24/2019 5:28:55 AM



#88
 1,4-Dichlorobenzene
 Concen: 20.663 ug/l
 RT: 13.58 min Scan# 1915
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	122512		
111	39.0	18.4	55.0	
148	64.7	32.1	96.3	





#89

n-Butylbenzene

Concen: 20.787 ug/l

RT: 13.82 min Scan# 1955

Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Instrument :

MSVOA_W

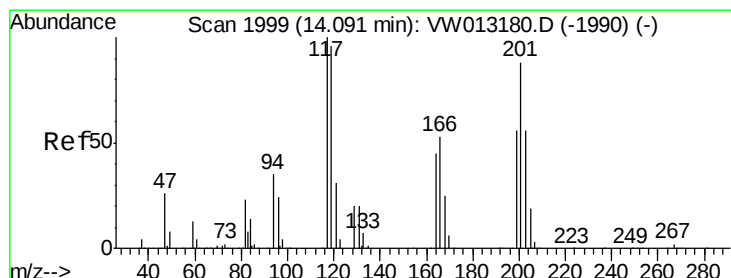
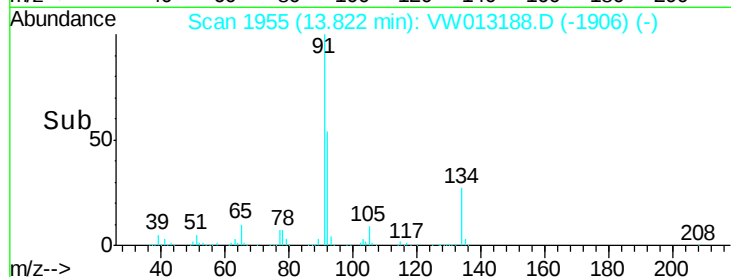
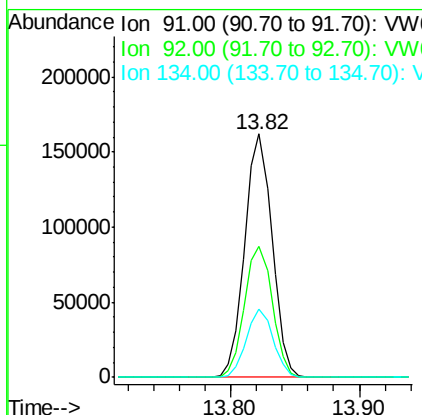
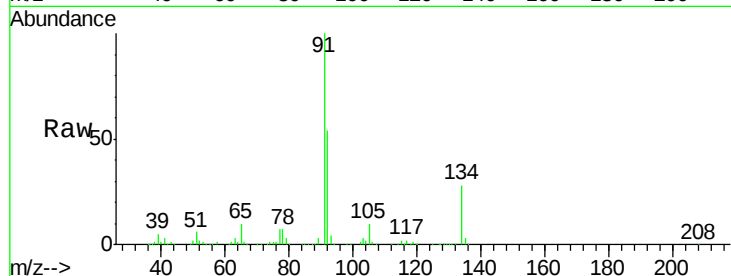
ClientSampleId :

VW0920SBSD01

Tot Ion:	91	Resp:	237365
Ion Ratio	Lower	Upper	
91	100		
92	55.1	27.6	82.8
134	27.6	13.7	41.1

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:28:55 AM



#90

Hexachloroethane

Concen: 19.197 ug/l

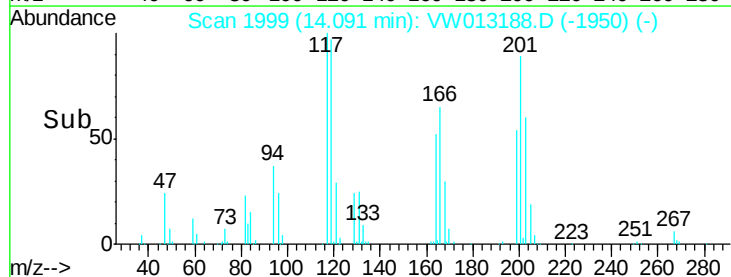
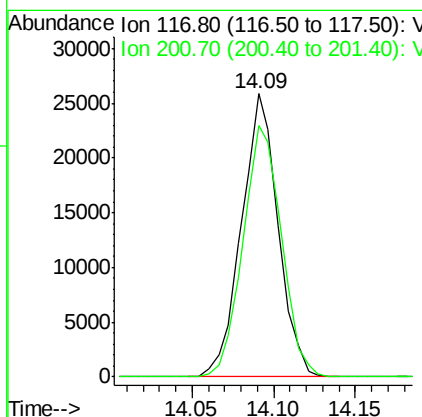
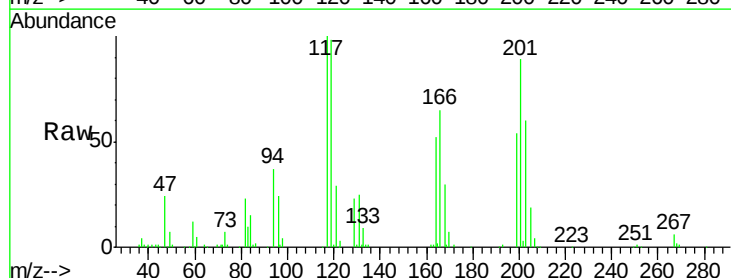
RT: 14.09 min Scan# 1999

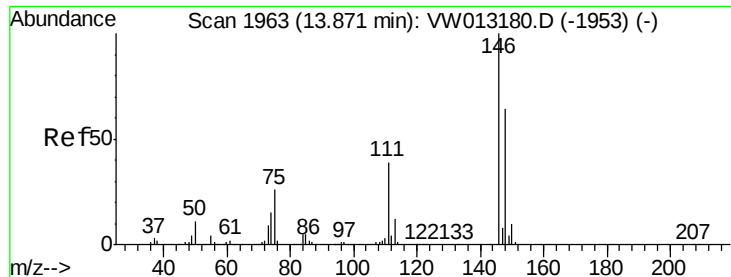
Delta R.T. -0.00 min

Lab File: VW013188.D

Acq: 20 Sep 2019 17:59

Tgt Ion:	117	Resp:	40330
Ion Ratio	Lower	Upper	
117	100		
201	93.1	44.5	133.5





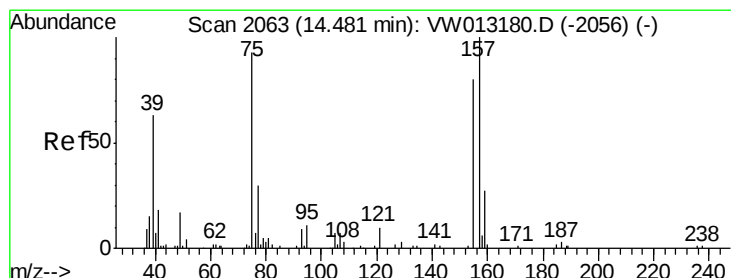
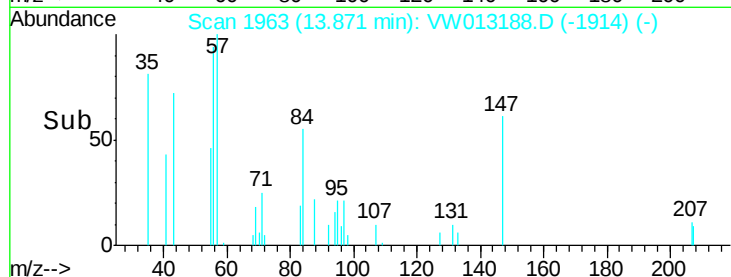
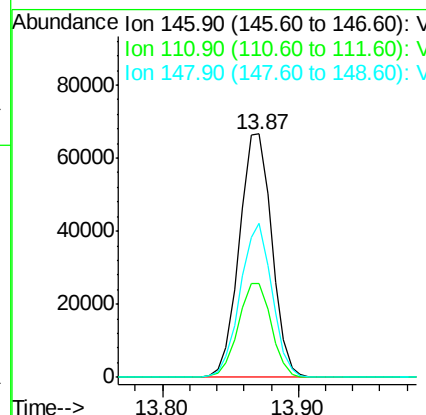
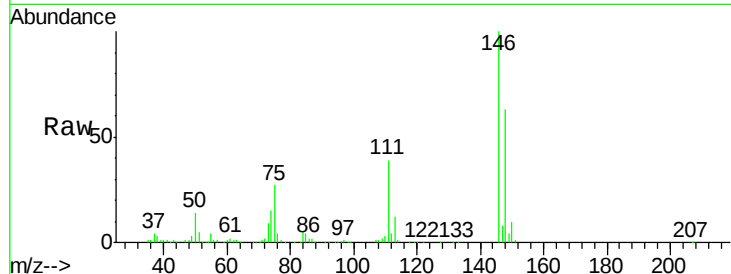
#91
 1,2-Dichlorobenzene
 Concen: 21.315 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
146	100	111478		
111	39.2	20.1	60.3	
148	61.7	32.0	96.0	

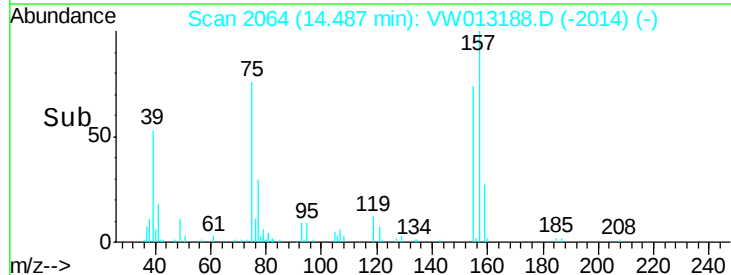
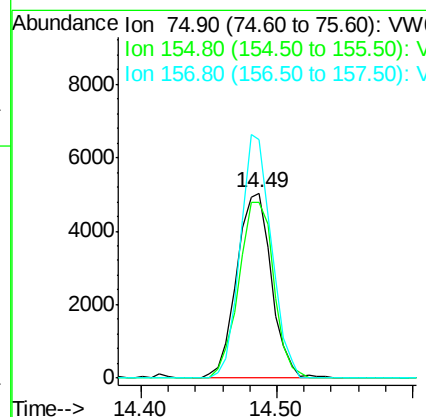
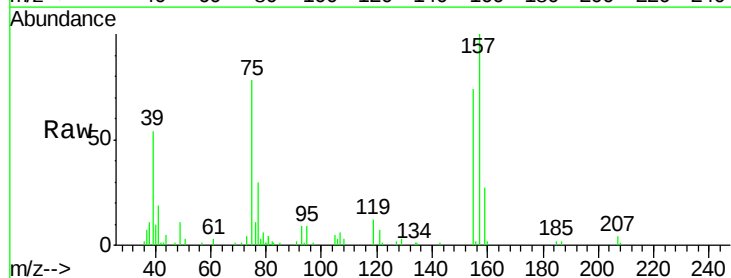
Manual Integrations
 APPROVED

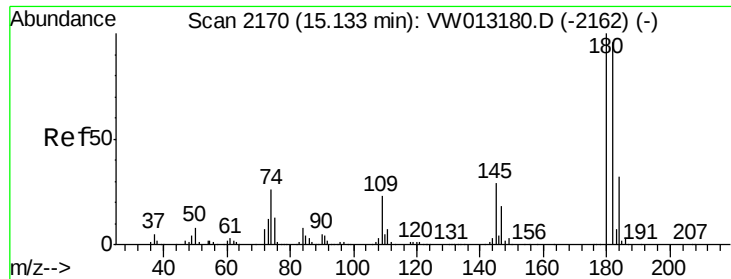
MMDadoda
 9/24/2019 5:28:55 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 26.528 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. 0.01 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	8995		
155	95.6	46.1	138.3	
157	117.4	60.4	181.2	





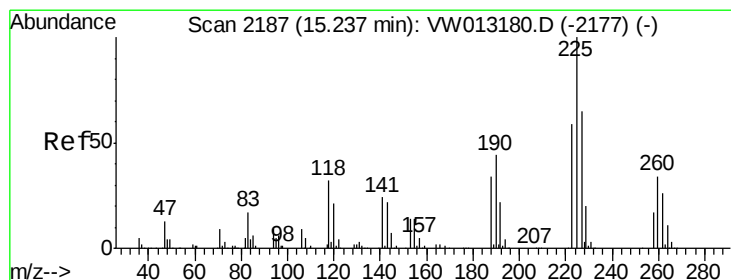
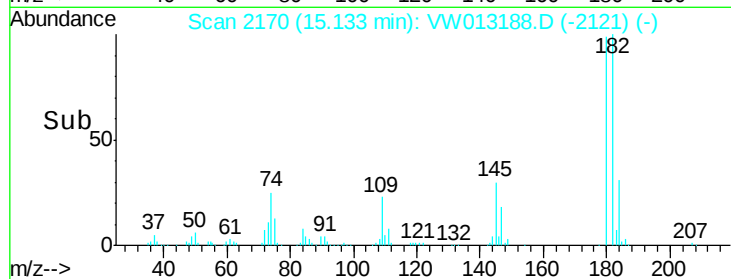
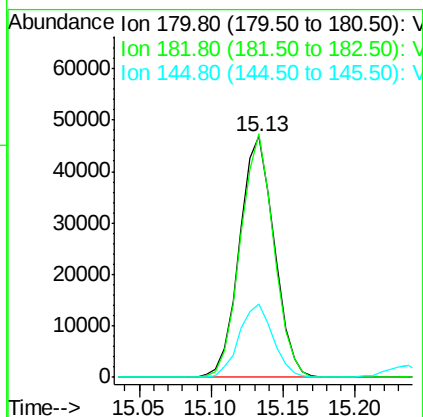
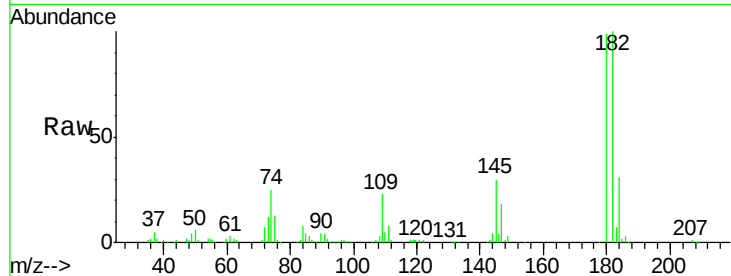
#93
 1,2,4-Trichlorobenzene
 Concen: 20.859 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Instrument :
 MSVOA_W
 ClientSampleId :
 VW0920SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.1	47.3	142.0
145	29.7	14.2	42.8

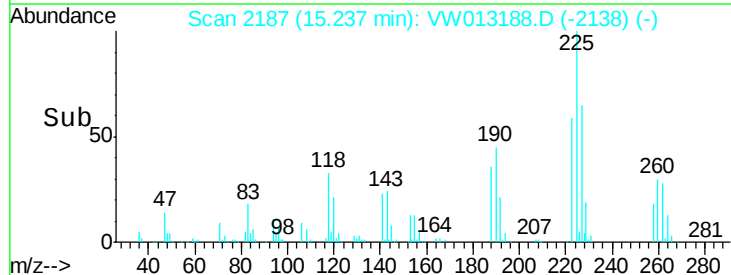
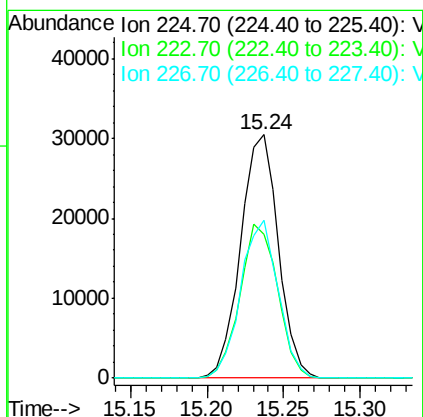
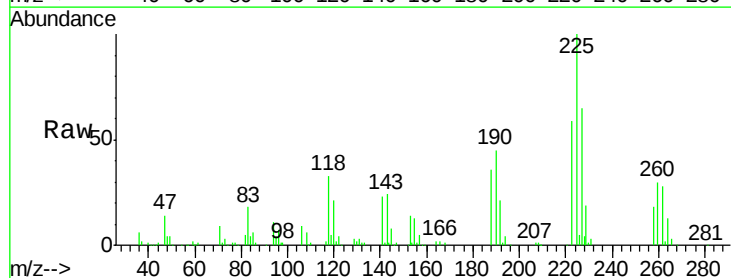
Manual Integrations
 APPROVED

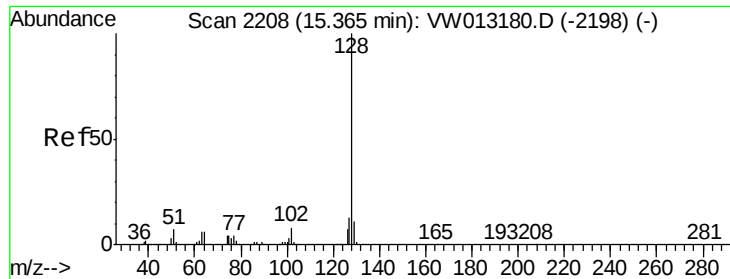
MMDadoda
 9/24/2019 5:28:55 AM



#94
 Hexachlorobutadiene
 Concen: 20.339 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. -0.00 min
 Lab File: VW013188.D
 Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.5	30.6	91.8
227	64.2	31.9	95.9





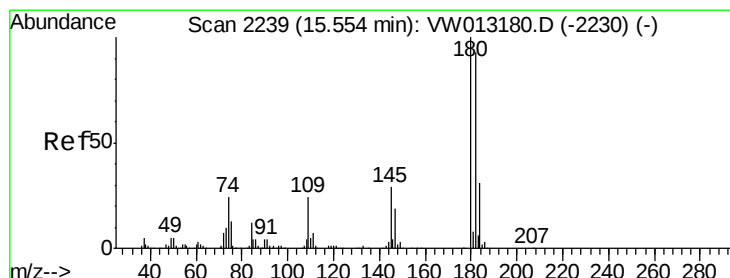
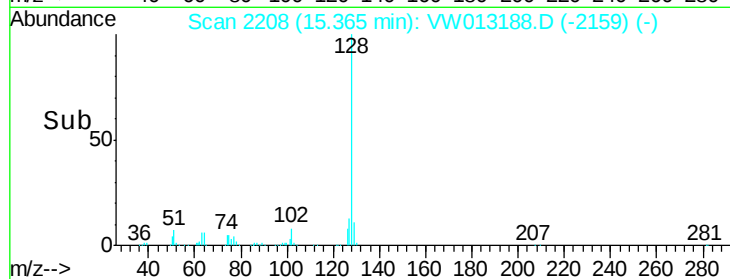
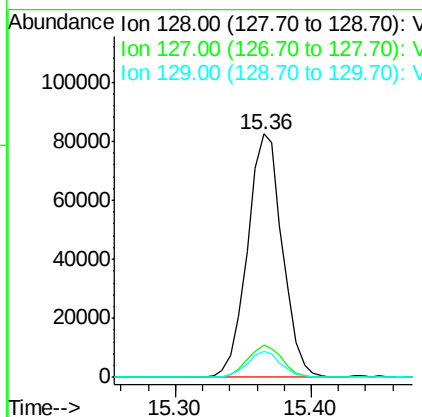
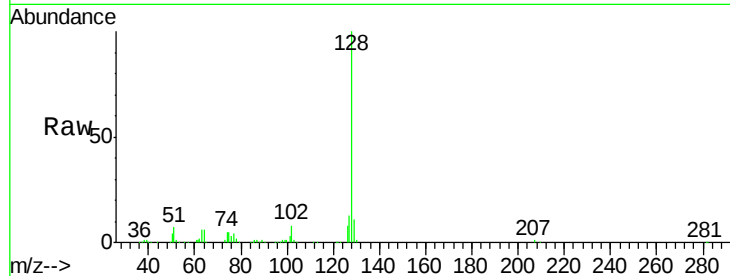
#95
Naphthalene
Concen: 24.176 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Instrument :
MSVOA_W
ClientSampleId :
VW0920SBS01

Tot Ion	Ratio	Resp	Lower	Upper
128	100	148186		
127	13.0	10.6	15.8	
129	10.5	8.7	13.1	

Manual Integrations
APPROVED

MMDadoda
9/24/2019 5:28:55 AM



#96
1,2,3-Trichlorobenzene
Concen: 21.377 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VW013188.D
Acq: 20 Sep 2019 17:59

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	69225		
182	96.6	47.9	143.7	
145	30.8	15.0	45.0	

