

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW110819\
 Data File : VW013939.D
 Acq On : 08 Nov 2019 12:57
 Operator : SY/VA
 Sample : VW1108SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1108SBS01

Manual Integrations
 APPROVED

MMDadoda
 11/12/2019 12:58:30 PM

Quant Time: Nov 09 03:33:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 23 14:11:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	291142	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	407640	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	352034	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.56	152	184926	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	116567	53.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.74%	
35) Dibromofluoromethane	7.88	113	117115	51.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.40%	
50) Toluene-d8	10.32	98	484306	52.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.94%	
62) 4-Bromofluorobenzene	12.62	95	163579	52.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	104.68%	

Target Compounds

					Qvalue	
2) Dichlorodifluoromethane	2.01	85	35156	22.921	ug/l	98
3) Chloromethane	2.21	50	37882	22.981	ug/l	100
4) Vinyl Chloride	2.36	62	57381	23.050	ug/l	99
5) Bromomethane	2.78	94	36221	22.123	ug/l	100
6) Chloroethane	2.92	64	32703	21.710	ug/l	94
7) Trichlorofluoromethane	3.26	101	31760	20.425	ug/l	92
8) Diethyl Ether	3.68	74	26837	21.363	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	4.07	101	54382	21.514	ug/l	98
10) Methyl Iodide	4.28	142	84544	20.525	ug/l	99
11) Tert butyl alcohol	5.16	59	20735	159.032	ug/l	96
12) 1,1-Dichloroethene	4.04	96	55305	21.181	ug/l	97
13) Acrolein	3.89	56	13551	90.718	ug/l	96
14) Allyl chloride	4.67	41	83070	20.690	ug/l	99
15) Acrylonitrile	5.37	53	61790	120.963	ug/l	99
16) Acetone	4.12	43	55757	120.403	ug/l	100
17) Carbon Disulfide	4.38	76	161159	21.491	ug/l	98
18) Methyl Acetate	4.67	43	35583	28.031	ug/l	99
19) Methyl tert-butyl Ether	5.42	73	70936	22.639	ug/l	100
20) Methylene Chloride	4.92	84	58094	19.947	ug/l	96
21) trans-1,2-Dichloroethene	5.42	96	57720	20.539	ug/l	96
22) Diisopropyl ether	6.31	45	151296	20.658	ug/l	98
23) Vinyl Acetate	6.26	43	455081	107.089	ug/l	99
24) 1,1-Dichloroethane	6.21	63	96055	20.709	ug/l	98
25) 2-Butanone	7.17	43	82300	123.616	ug/l	95
26) 2,2-Dichloropropane	7.17	77	57621	21.483	ug/l	95
27) cis-1,2-Dichloroethene	7.17	96	60191	20.165	ug/l	96
28) Bromochloromethane	7.51	49	26236	16.791	ug/l #	7
29) Tetrahydrofuran	7.53	42	52613	127.645	ug/l	99
30) Chloroform	7.68	83	94528	20.616	ug/l	95
31) Cyclohexane	7.95	56	100008	20.603	ug/l	98
32) 1,1,1-Trichloroethane	7.87	97	78857	21.916	ug/l	99
36) 1,1-Dichloropropene	8.08	75	81526	21.475	ug/l	98
37) Ethyl Acetate	7.25	43	34645	23.840	ug/l	97
38) Carbon Tetrachloride	8.07	117	74285	21.729	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW110819\
 Data File : VW013939.D
 Acq On : 08 Nov 2019 12:57
 Operator : SY/VA
 Sample : VW1108SBS01
 Misc : 5.00G/5ML/MSVOA W/SOIL
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleID :
 VW1108SBS01

Manual Integrations
 APPROVED

MMDadoda
 11/12/2019 12:58:30 PM

Quant Time: Nov 09 03:33:01 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
 Quant Title : SW846 8260
 QLast Update : Wed Oct 23 14:11:46 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	102538	20.915	ug/l	98
40) Benzene	8.32	78	226151	21.049	ug/l	99
41) Methacrylonitrile	7.48	41	21643	23.882	ug/l	97
42) 1,2-Dichloroethane	8.40	62	59065	21.816	ug/l	99
43) Isopropyl Acetate	8.42	43	65258	23.459	ug/l	98
44) Trichloroethene	9.09	130	65259	21.205	ug/l	93
45) 1,2-Dichloropropane	9.37	63	53069	20.680	ug/l	96
46) Dibromomethane	9.46	93	27590	22.151	ug/l	99
47) Bromodichloromethane	9.65	83	66515	20.639	ug/l	99
48) Methyl methacrylate	9.43	41	29134	21.120	ug/l	89
49) 1,4-Dioxane	9.45	88	10646	578.420	ug/l #	93
51) 4-Methyl-2-Pentanone	10.21	43	174328	126.115	ug/l	99
52) Toluene	10.38	92	144301	20.822	ug/l	100
53) t-1,3-Dichloropropene	10.60	75	69367	21.262	ug/l	94
54) cis-1,3-Dichloropropene	10.07	75	83157	20.659	ug/l	98
55) 1,1,2-Trichloroethane	10.79	97	40072	21.587	ug/l	96
56) Ethyl methacrylate	10.65	69	52524	22.616	ug/l	98
57) 1,3-Dichloropropane	10.93	76	70407	22.103	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.92	63	114581	107.199	ug/l	99
59) 2-Hexanone	10.97	43	119756	125.670	ug/l	100
60) Dibromochloromethane	11.13	129	47333	21.476	ug/l	97
61) 1,2-Dibromoethane	11.23	107	39350	22.407	ug/l	99
64) Tetrachloroethene	10.87	164	56604	21.045	ug/l	95
65) Chlorobenzene	11.66	112	150451	20.798	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	52598	20.834	ug/l	98
67) Ethyl Benzene	11.73	91	268658	20.596	ug/l	99
68) m/p-Xylenes	11.83	106	212265	42.119	ug/l	97
69) o-Xylene	12.16	106	95742	20.668	ug/l	98
70) Styrene	12.18	104	164341	20.649	ug/l	100
71) Bromoform	12.35	173	29704	22.420	ug/l #	97
73) Isopropylbenzene	12.46	105	266800	20.090	ug/l	100
74) N-amyl acetate	12.27	43	58056	22.599	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.71	83	47400	22.618	ug/l	97
76) 1,2,3-Trichloropropane	12.77	75	30630m	23.064	ug/l	
77) Bromobenzene	12.74	156	64240	20.249	ug/l	98
78) n-propylbenzene	12.80	91	315306	20.513	ug/l	99
79) 2-Chlorotoluene	12.89	91	173012	20.029	ug/l	99
80) 1,3,5-Trimethylbenzene	12.94	105	228121	20.349	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.51	75	16333	23.243	ug/l	99
82) 4-Chlorotoluene	12.99	91	183739	20.261	ug/l	98
83) tert-Butylbenzene	13.21	119	199212	20.019	ug/l	99
84) 1,2,4-Trimethylbenzene	13.25	105	225972	20.434	ug/l	99
85) sec-Butylbenzene	13.38	105	277074	20.362	ug/l	99
86) p-Isopropyltoluene	13.50	119	261009	20.591	ug/l	99
87) 1,3-Dichlorobenzene	13.50	146	128224	20.861	ug/l	98
88) 1,4-Dichlorobenzene	13.58	146	125000	20.470	ug/l	99
89) n-Butylbenzene	13.82	91	234282	20.477	ug/l	99
90) Hexachloroethane	14.09	117	43555	19.768	ug/l	98
91) 1,2-Dichlorobenzene	13.87	146	112762	21.158	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	7541	23.796	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\VW110819\
Data File : VW013939.D
Acq On : 08 Nov 2019 12:57
Operator : SY/VA
Sample : VW1108SBSD01
Misc : 5.00G/5ML/MSVOA W/SOIL
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBSD01

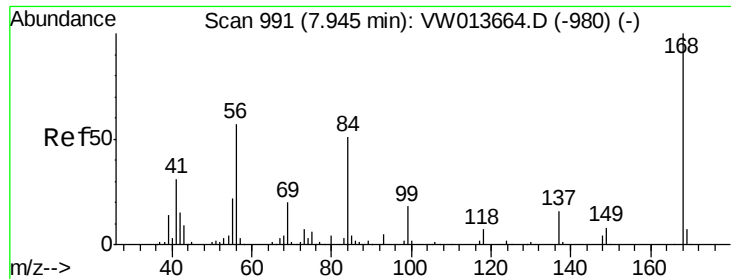
Manual Integrations
APPROVED

MMDadoda
11/12/2019 12:58:30 PM

Quant Time: Nov 09 03:33:01 2019
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W102319S.M
Quant Title : SW846 8260
QLast Update : Wed Oct 23 14:11:46 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.13	180	77997	20.109	ug/l	97
94) Hexachlorobutadiene	15.24	225	55618	21.241	ug/l	98
95) Naphthalene	15.36	128	131537	21.630	ug/l	100
96) 1,2,3-Trichlorobenzene	15.55	180	69910	20.918	ug/l	100

(#) = 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: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

ClientSampleId :

VW1108SBS01

Tot Ion:168 Resp: 291142

Ion Ratio Lower Upper

168 100

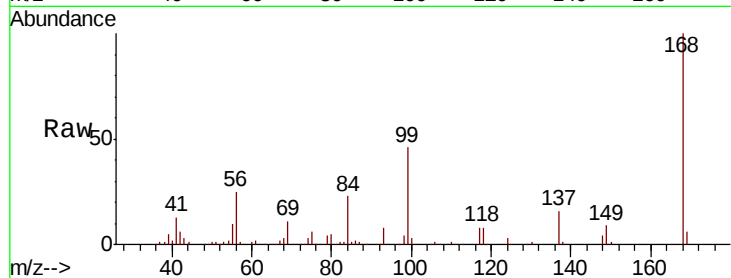
99 45.9 39.0 58.6

Manual Integrations

APPROVED

MMDadoda

11/12/2019 12:58:30 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

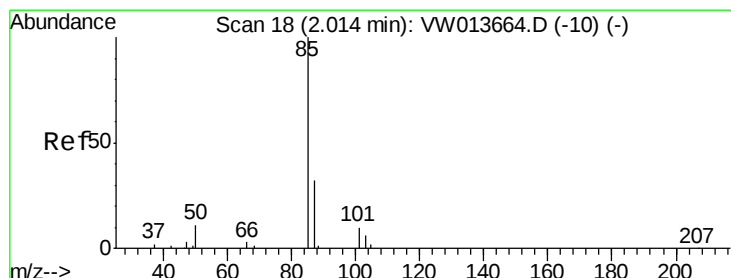
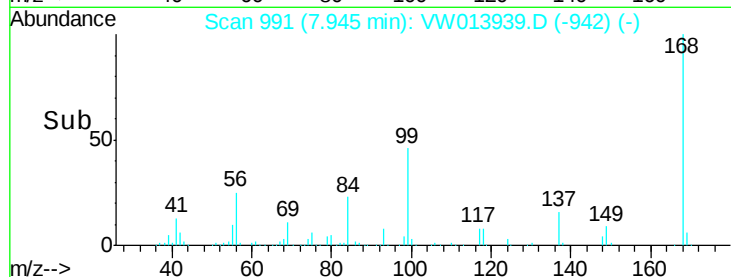
150000

100000

50000

0

Time--> 7.80 7.90 8.00 8.10



#2

Dichlorodifluoromethane

Concen: 22.921 ug/l

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW013939.D

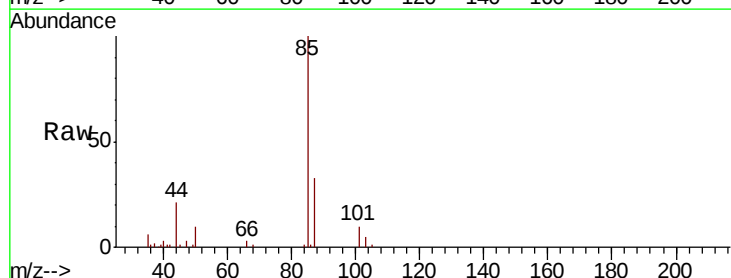
Acq: 08 Nov 2019 12:57

Tgt Ion: 85 Resp: 35156

Ion Ratio Lower Upper

85 100

87 32.9 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

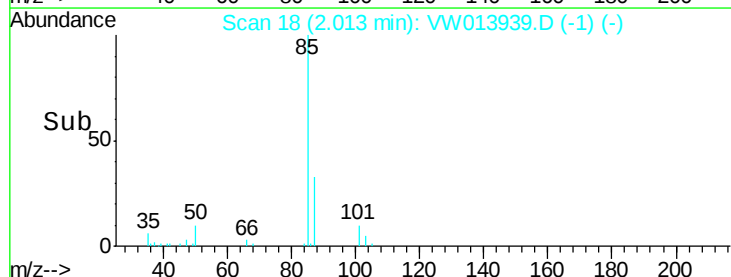
2.01

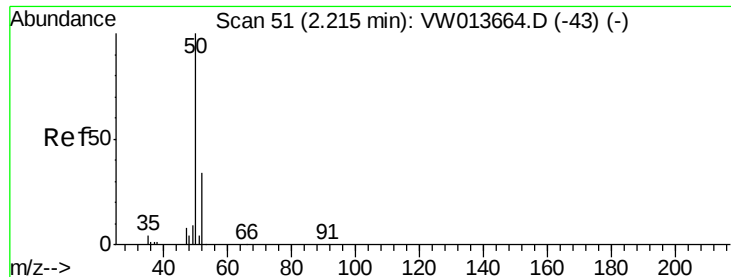
10000

5000

0

Time--> 1.90 2.00 2.10 2.20





#3

Chloromethane

Concen: 22.981 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

ClientSampleId :

VW1108SBS01

Tot Ion: 50 Resp: 37882

Ion Ratio Lower Upper

50 100

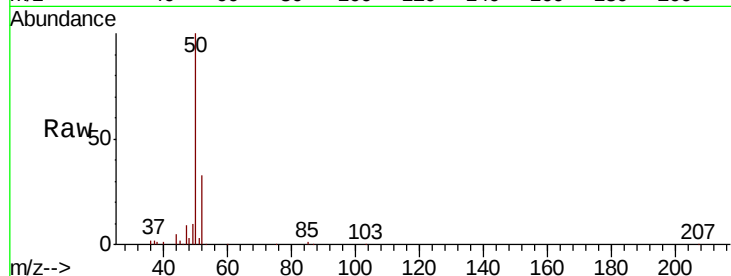
52 33.4 26.9 40.3

Manual Integrations

APPROVED

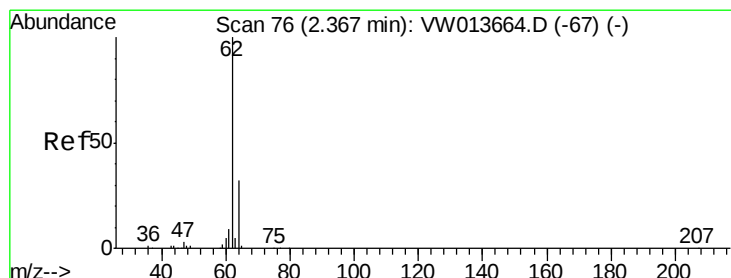
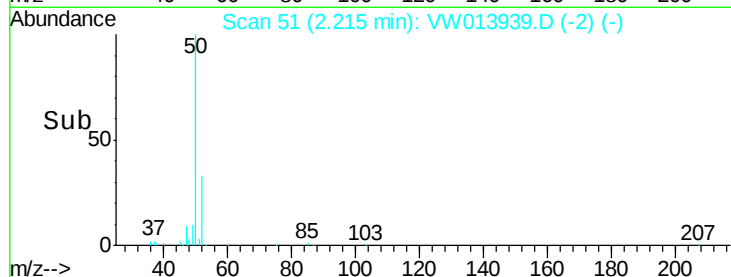
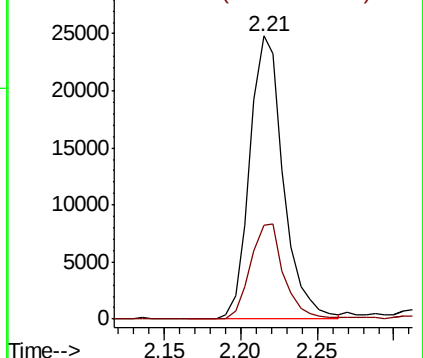
MMDadoda

11/12/2019 12:58:30 PM



Abundance Ion 49.90 (49.60 to 50.60): VW

Ion 51.90 (51.60 to 52.60): VW



#4

Vinyl Chloride

Concen: 23.050 ug/l

RT: 2.36 min Scan# 75

Delta R.T. -0.01 min

Lab File: VW013939.D

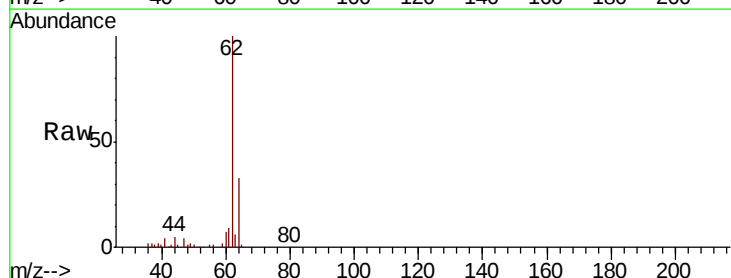
Acq: 08 Nov 2019 12:57

Tgt Ion: 62 Resp: 57381

Ion Ratio Lower Upper

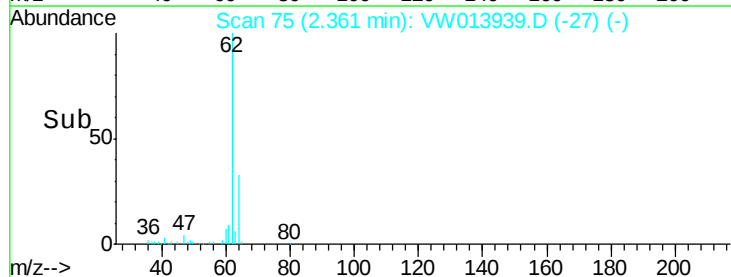
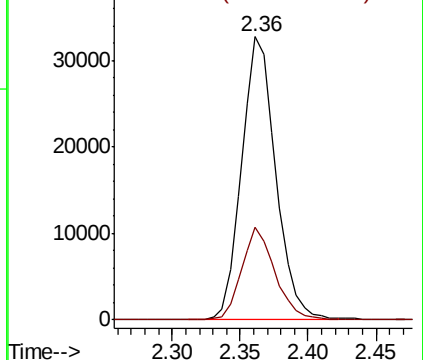
62 100

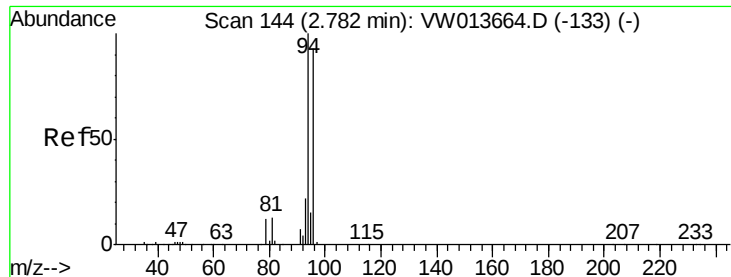
64 32.7 25.5 38.3



Abundance Ion 61.90 (61.60 to 62.60): VW

Ion 63.90 (63.60 to 64.60): VW





#5

Bromomethane

Concen: 22.123 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

ClientSampleId :

VW1108SBS01

Tot Ion: 94 Resp: 36221

Ion Ratio Lower Upper

94 100

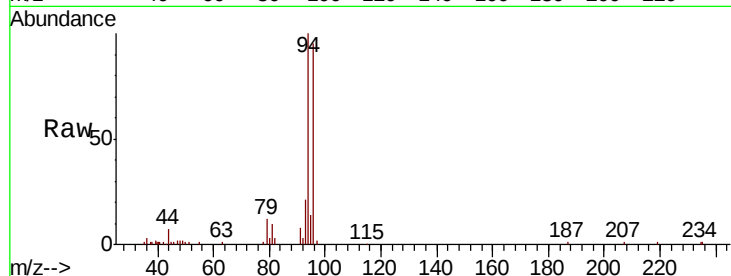
96 93.8 74.6 112.0

Manual Integrations

APPROVED

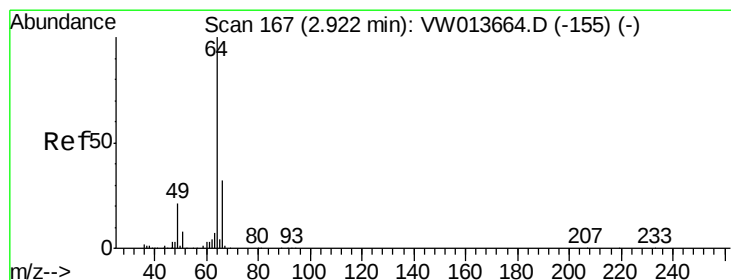
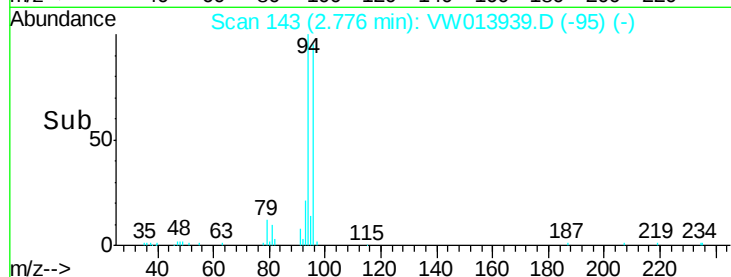
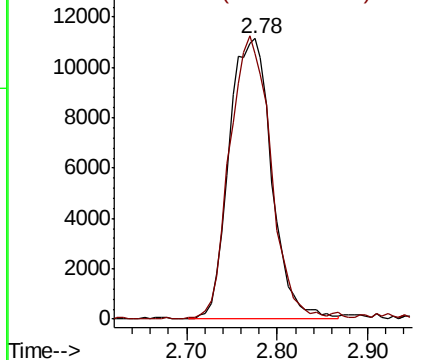
MMDadoda

11/12/2019 12:58:30 PM



Abundance Ion 93.90 (93.60 to 94.60): VW

Ion 95.90 (95.60 to 96.60): VW



#6

Chloroethane

Concen: 21.710 ug/l

RT: 2.92 min Scan# 167

Delta R.T. -0.00 min

Lab File: VW013939.D

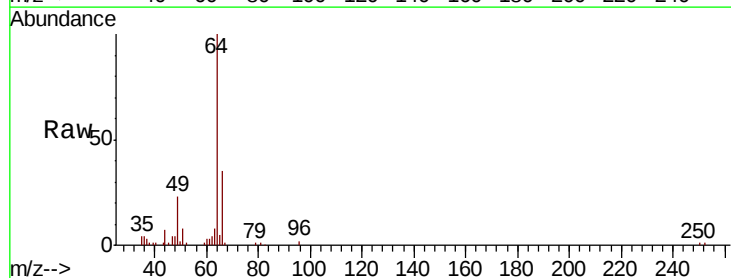
Acq: 08 Nov 2019 12:57

Tgt Ion: 64 Resp: 32703

Ion Ratio Lower Upper

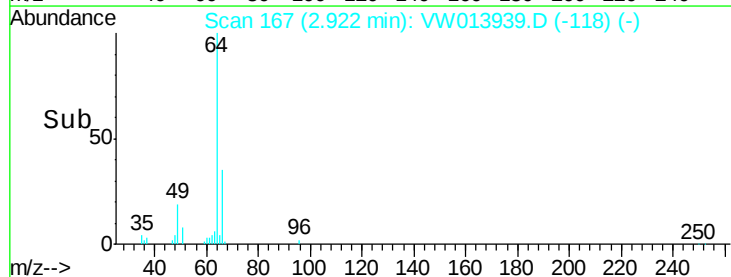
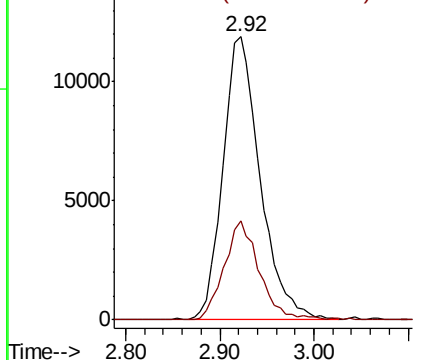
64 100

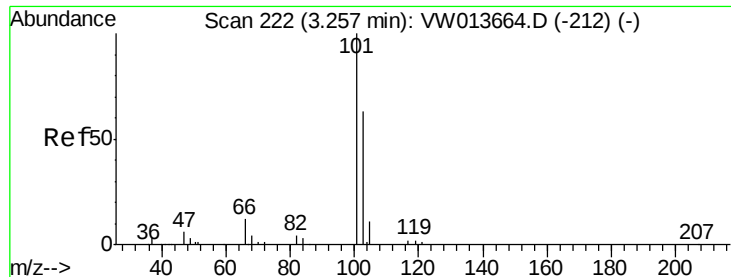
66 35.1 25.4 38.0



Abundance Ion 63.90 (63.60 to 64.60): VW

Ion 65.90 (65.60 to 66.60): VW





#7

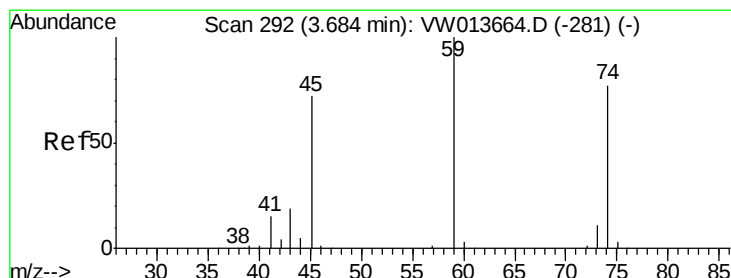
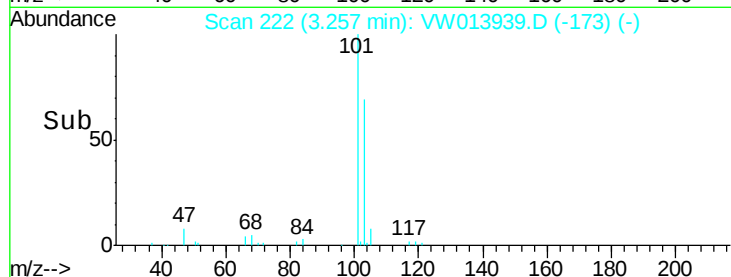
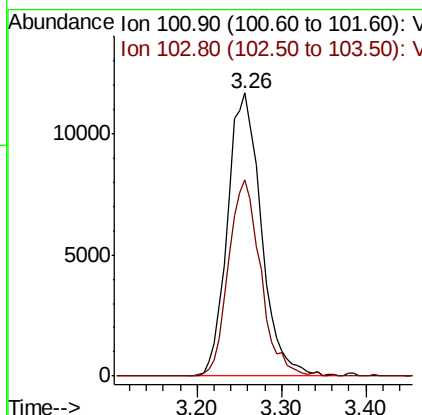
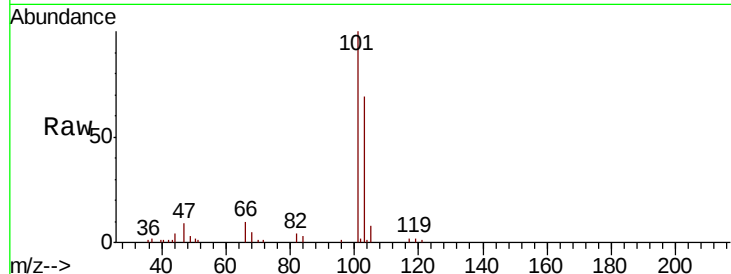
Trichlorofluoromethane
 Concen: 20.425 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1108SBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	69.5	50.6	76.0

Manual Integrations
 APPROVED

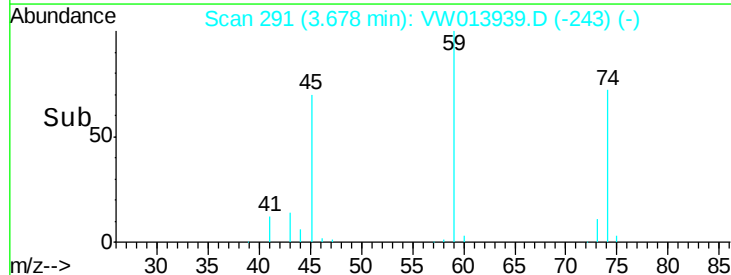
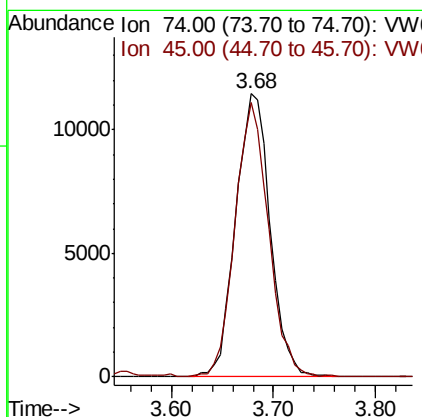
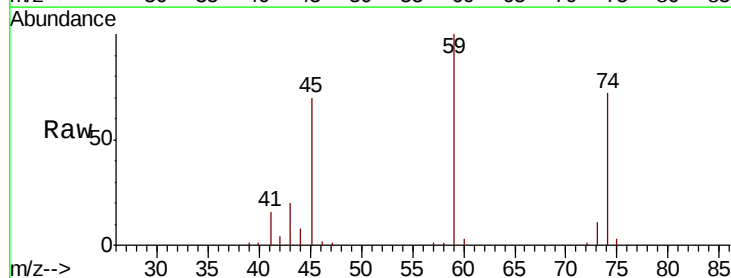
MMDadoda
 11/12/2019 12:58:30 PM

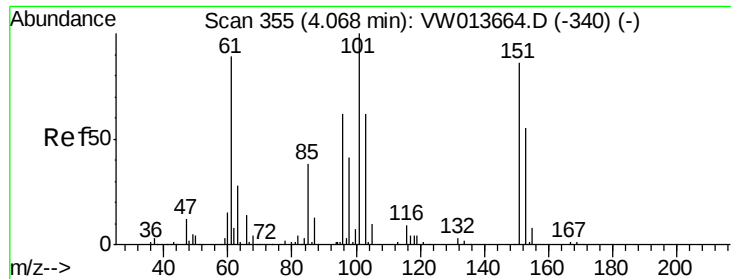


#8

Diethyl Ether
 Concen: 21.363 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.01 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.3	47.9	143.6





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.514 ug/l

RT: 4.07 min Scan# 355

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

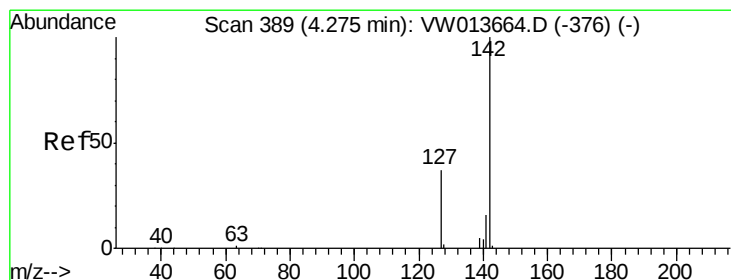
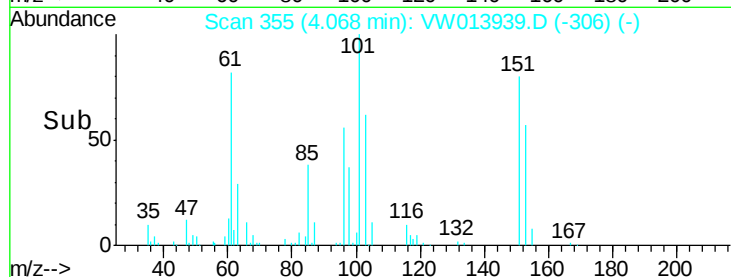
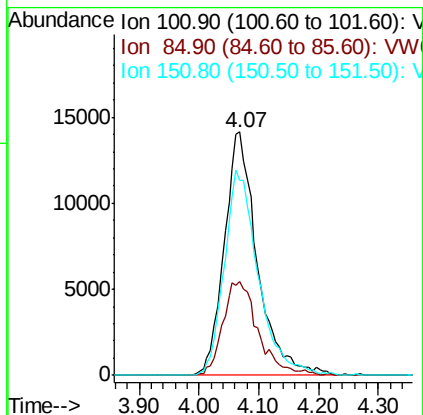
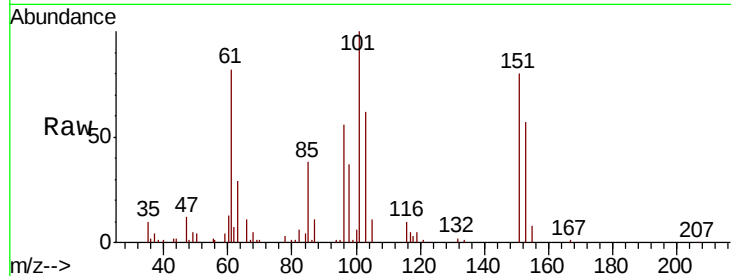
ClientSampleId :

VW1108SBS01

Tot Ion:	101	Resp:	54382
Ion Ratio	Lower	Upper	
101	100		
85	40.7	31.0	46.6
151	86.8	68.2	102.4

Manual Integrations
APPROVED

MMDadoda
11/12/2019 12:58:30 PM



#10

Methyl Iodide

Concen: 20.525 ug/l

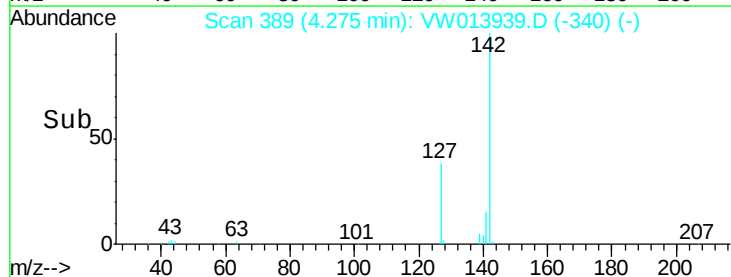
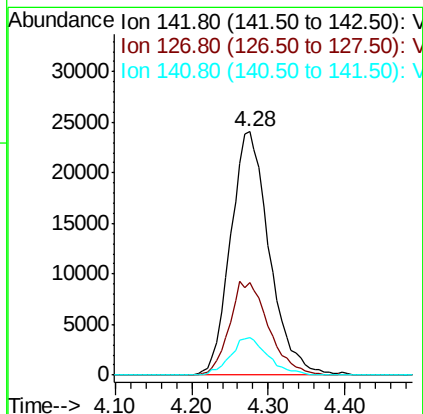
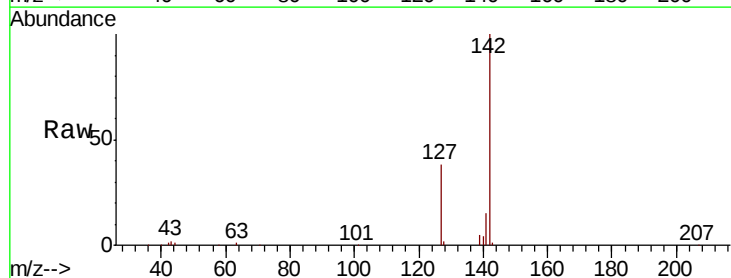
RT: 4.28 min Scan# 389

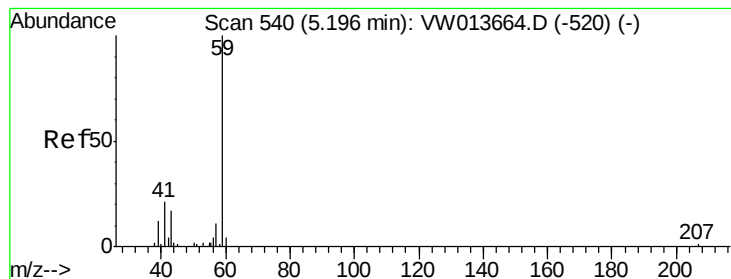
Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Tgt Ion:	142	Resp:	84544
Ion Ratio	Lower	Upper	
142	100		
127	38.7	30.3	45.5
141	14.9	11.8	17.8





#11

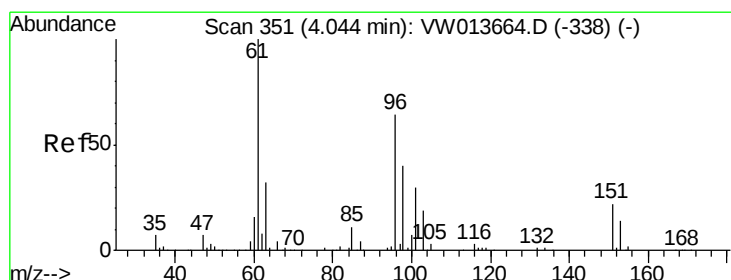
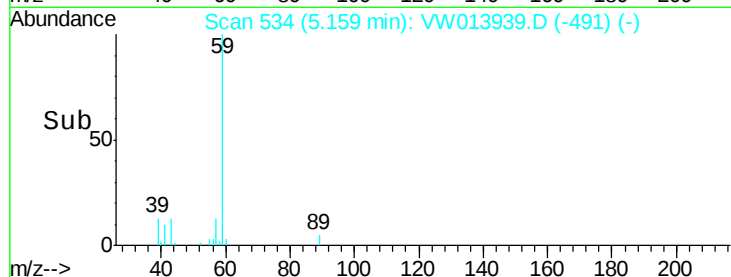
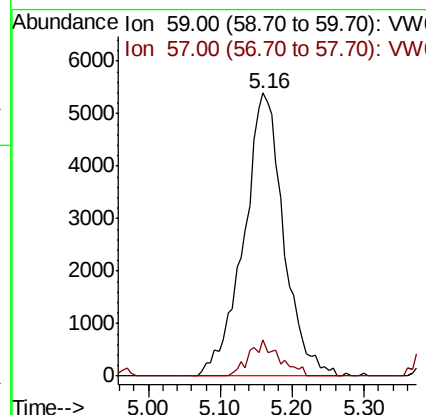
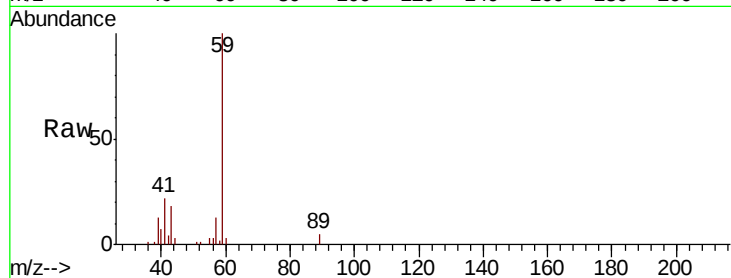
Tert butyl alcohol
Concen: 159.032 ug/l
RT: 5.16 min Scan# 534
Delta R.T. -0.04 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion	59	57	Ratio	100	9.6	Resp	20735	Lower	8.8	Upper	13.2
Ion	59	57	Ratio	100	9.6	Resp	20735	Lower	8.8	Upper	13.2

Manual Integrations
APPROVED

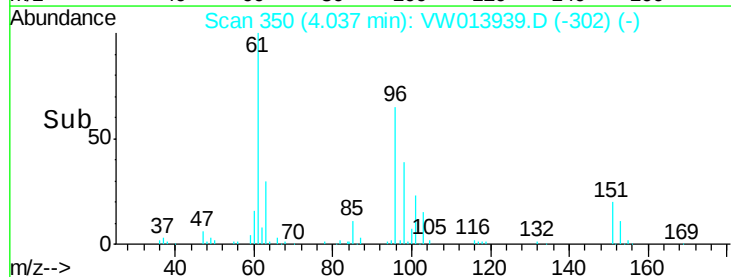
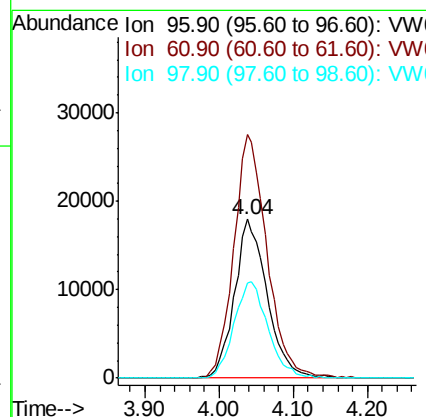
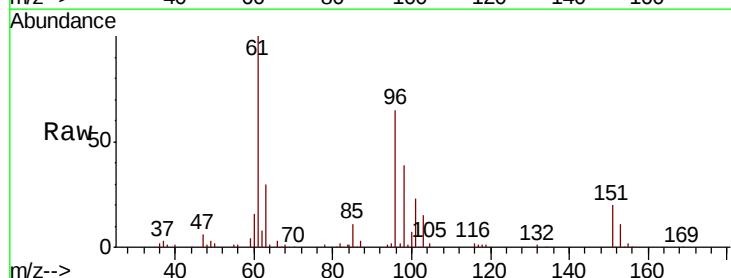
MMDadoda
11/12/2019 12:58:30 PM

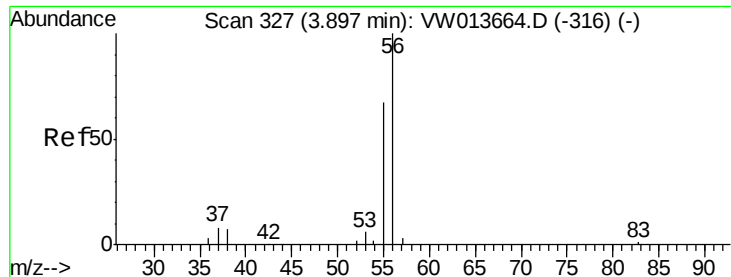


#12

1,1-Dichloroethene
Concen: 21.181 ug/l
RT: 4.04 min Scan# 350
Delta R.T. -0.01 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	96	61	98	Ratio	100	153.2	60.1	Resp	55305	Lower	125.0	Upper	187.6	75.5
Ion	96	61	98	Ratio	100	153.2	60.1	Resp	55305	Lower	125.0	Upper	187.6	75.5





#13

Acrolein

Concen: 90.718 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.01 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

ClientSampleId :

VW1108SBS01

Tot Ion: 56 Resp: 13551

Ion Ratio Lower Upper

56 100

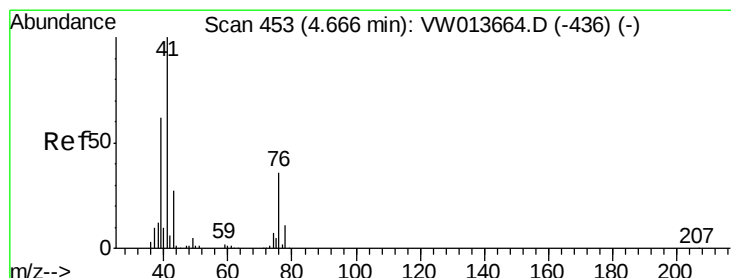
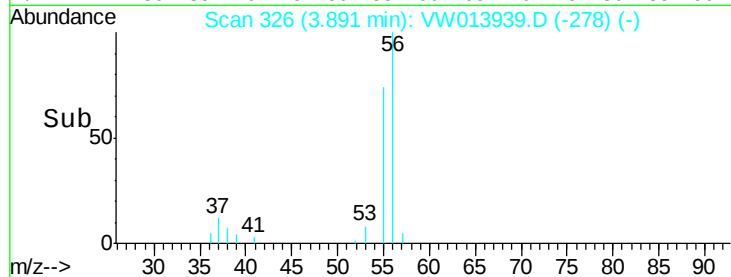
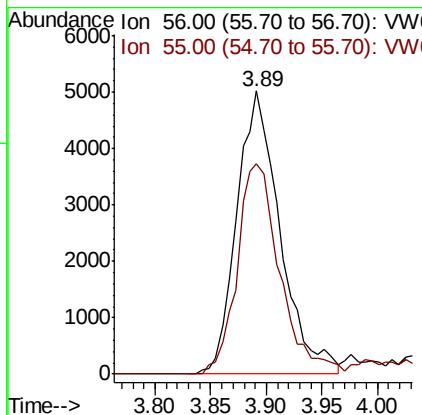
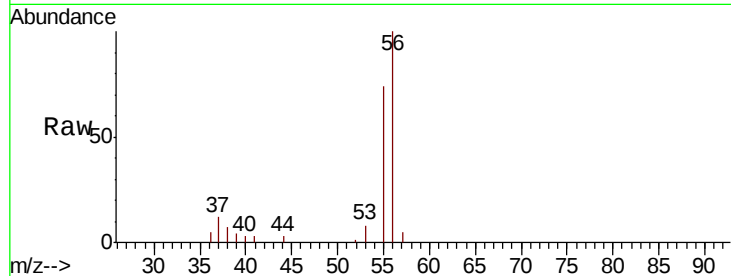
55 73.0 56.1 84.1

Manual Integrations

APPROVED

MMDadoda

11/12/2019 12:58:30 PM



#14

Allyl chloride

Concen: 20.690 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

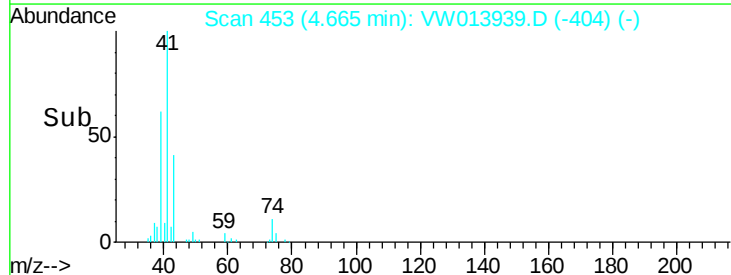
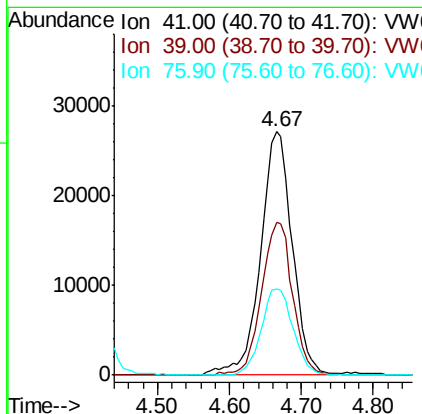
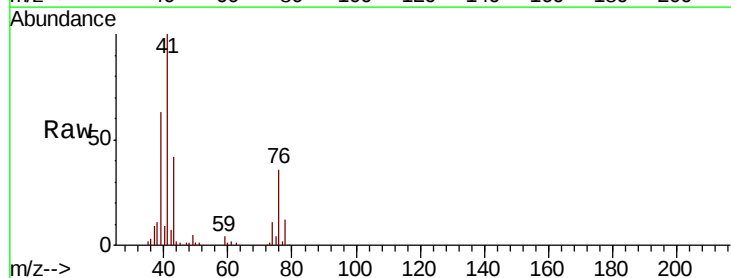
Tgt Ion: 41 Resp: 83070

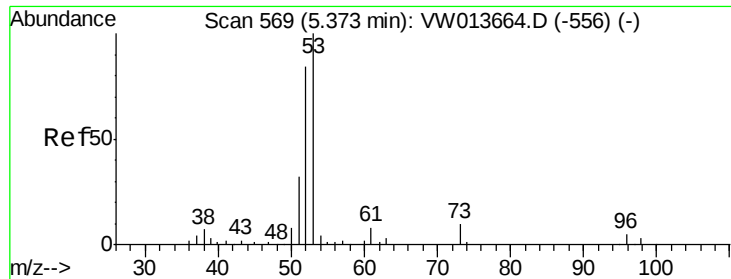
Ion Ratio Lower Upper

41 100

39 61.8 50.0 75.0

76 35.6 29.6 44.4





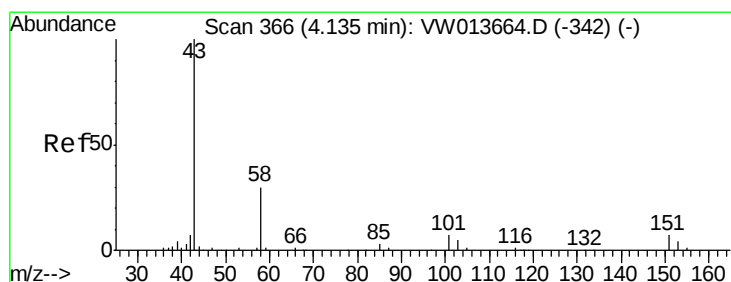
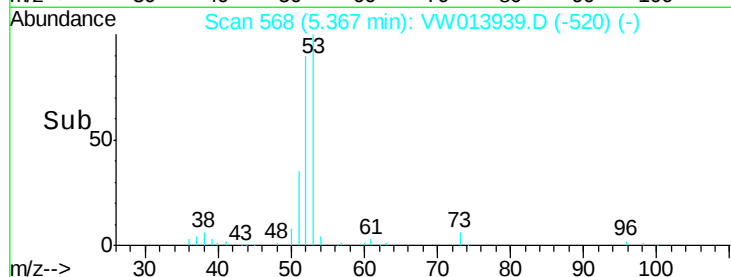
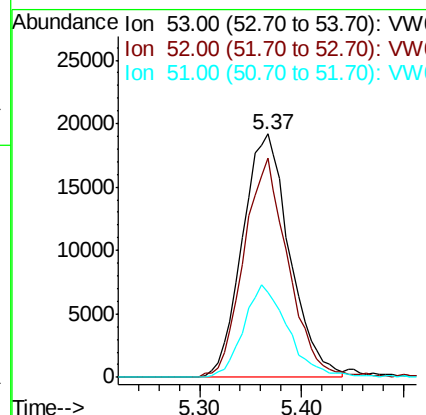
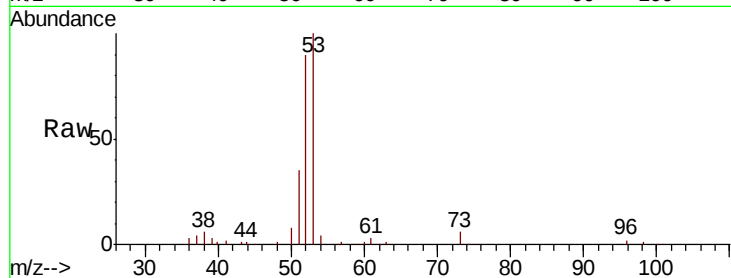
#15
Acrylonitrile
Concen: 120.963 ug/l
RT: 5.37 min Scan# 568
Delta R.T. -0.01 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion	Ratio	Lower	Upper
53	100		
52	84.8	67.4	101.0
51	35.9	29.1	43.7

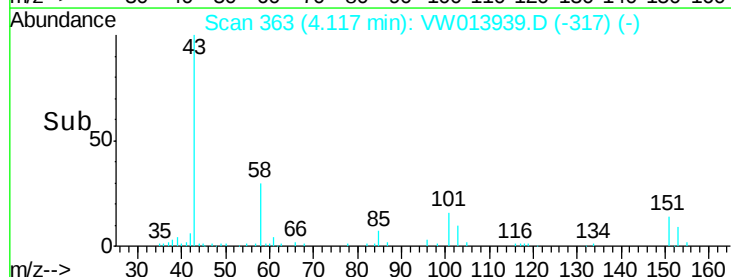
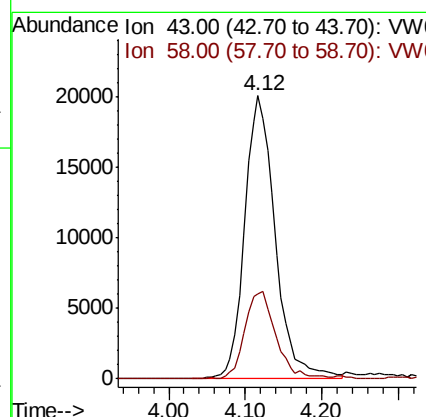
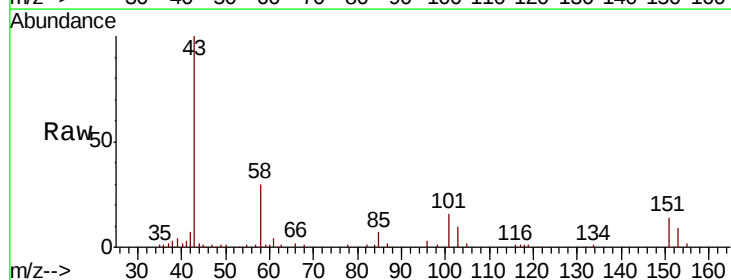
Manual Integrations
APPROVED

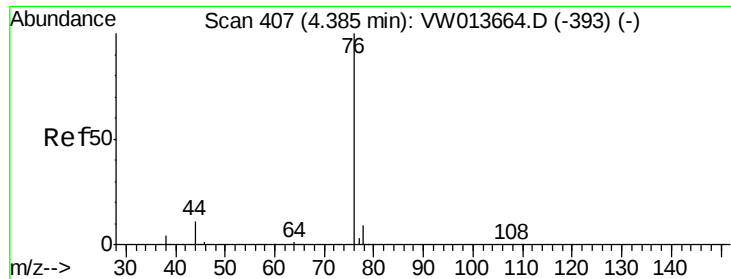
MMDadoda
11/12/2019 12:58:30 PM



#16
Acetone
Concen: 120.403 ug/l
RT: 4.12 min Scan# 363
Delta R.T. -0.02 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
43	100		
58	30.1	24.1	36.1





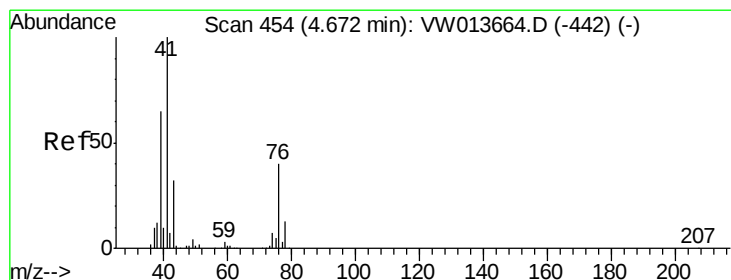
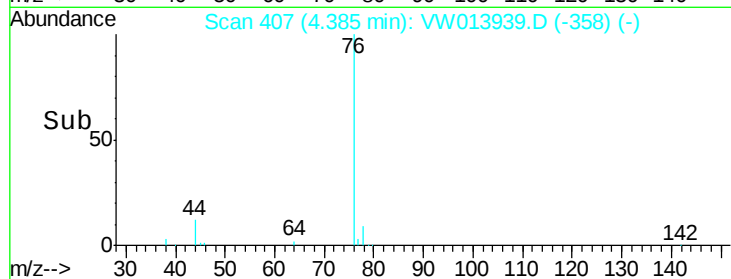
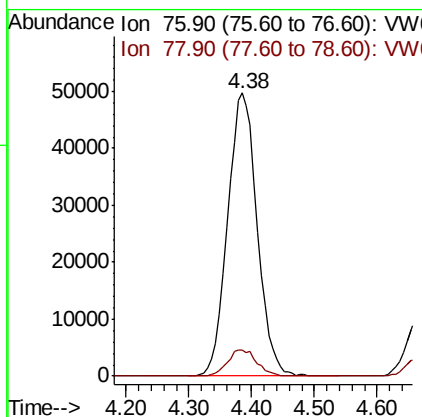
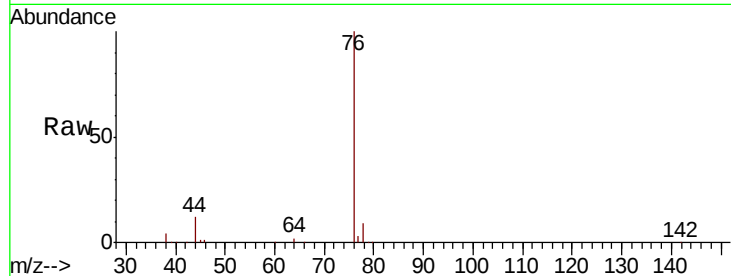
#17
Carbon Disulfide
Concen: 21.491 ug/l
RT: 4.38 min Scan# 407
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBSD01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.4	7.0	10.6

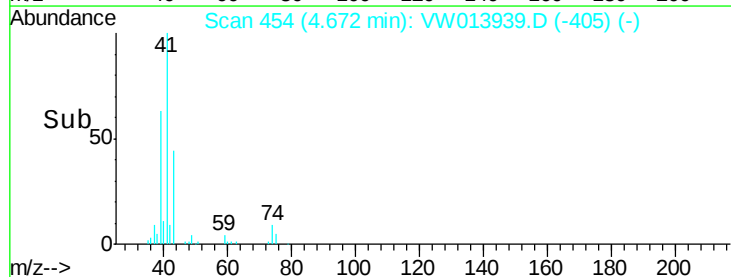
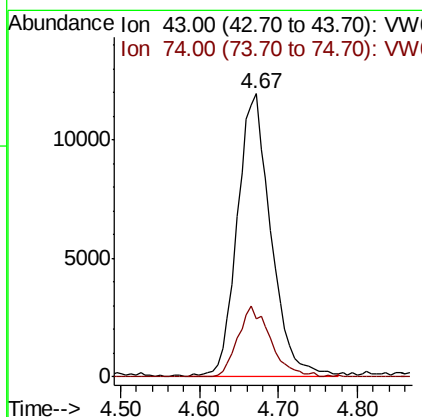
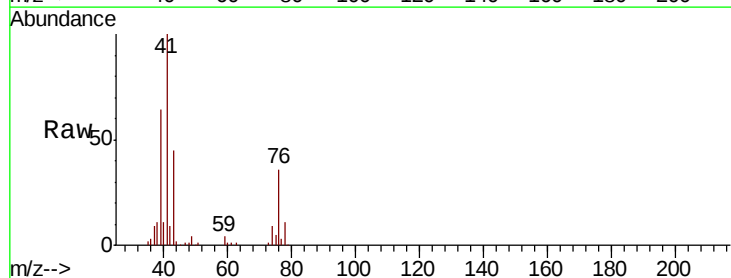
Manual Integrations
APPROVED

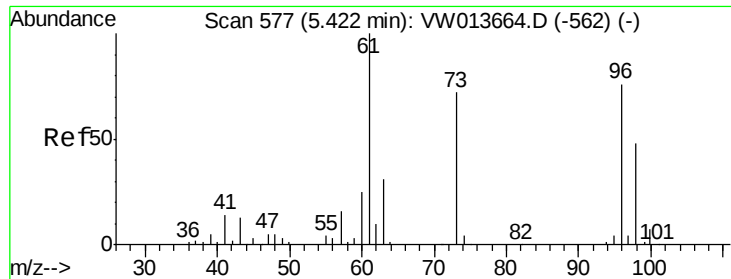
MMDadoda
11/12/2019 12:58:30 PM



#18
Methyl Acetate
Concen: 28.031 ug/l
RT: 4.67 min Scan# 454
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.3	19.8	29.8





#19

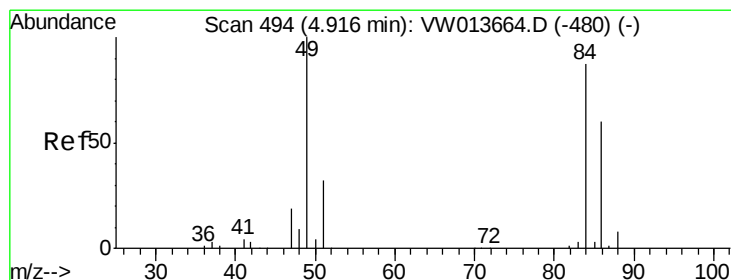
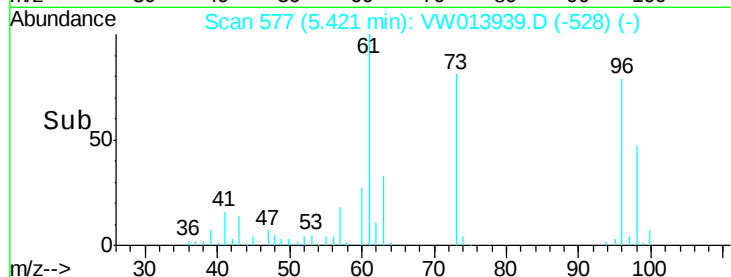
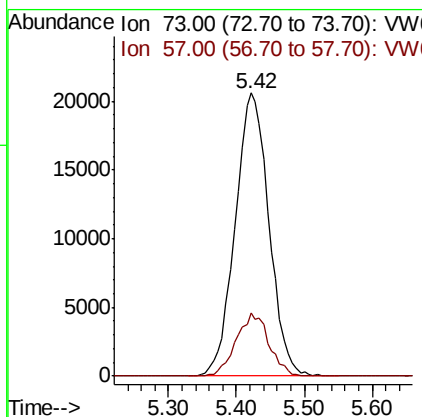
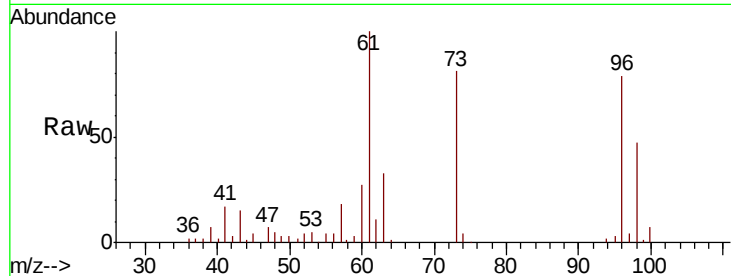
Methyl tert-butyl Ether
 Concen: 22.639 ug/l
 RT: 5.42 min Scan# 577
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1108SBS01

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.2	17.6	26.4

Manual Integrations
 APPROVED

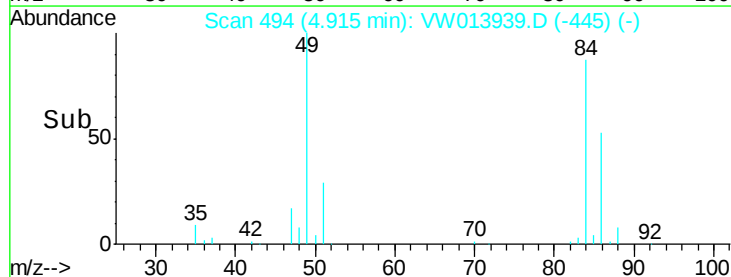
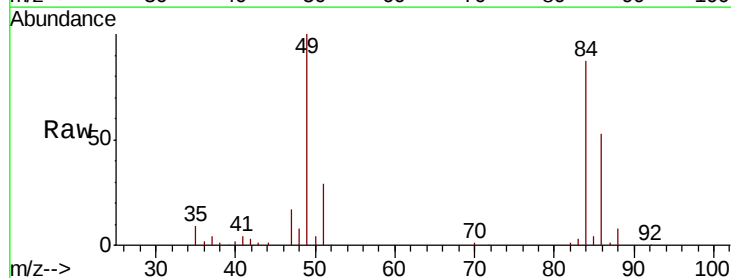
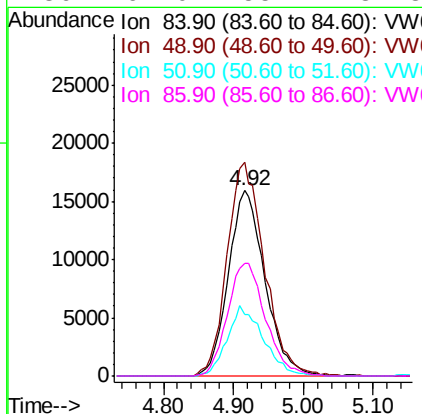
MMDadoda
 11/12/2019 12:58:30 PM

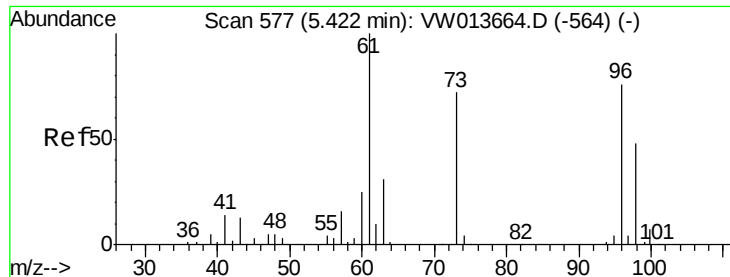


#20

Methylene Chloride
 Concen: 19.947 ug/l
 RT: 4.92 min Scan# 494
 Delta R.T. 0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
84	100		
49	115.2	91.8	137.6
51	33.4	29.8	44.6
86	61.0	55.2	82.8





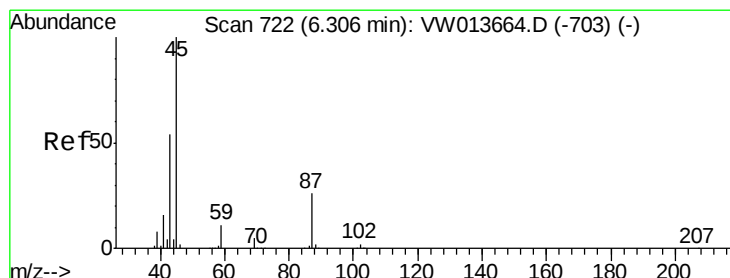
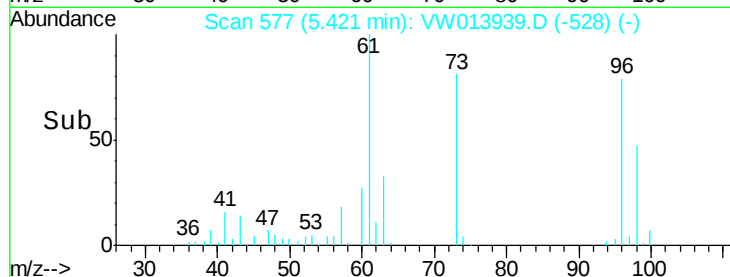
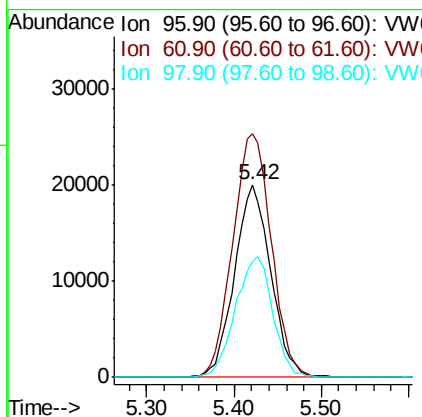
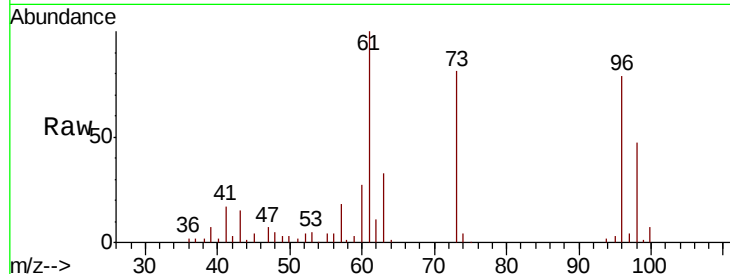
#21
trans-1,2-Dichloroethene
Concen: 20.539 ug/l
RT: 5.42 min Scan# 577
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	126.4	104.8	157.2
98	60.0	50.6	76.0

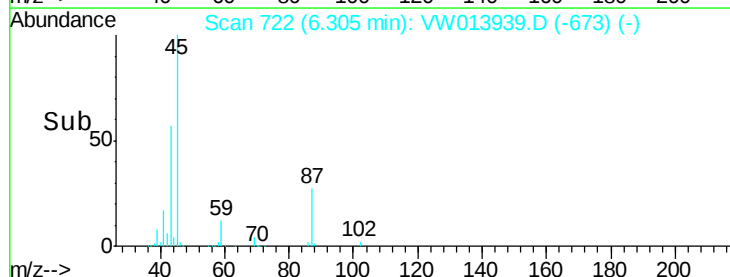
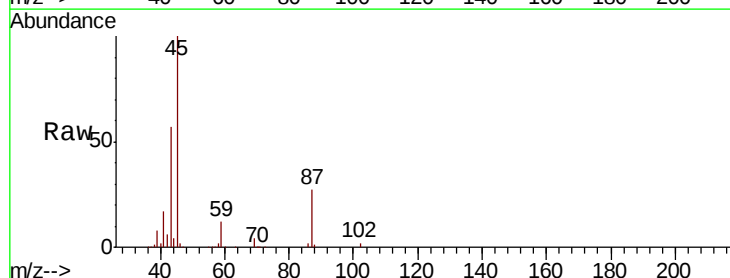
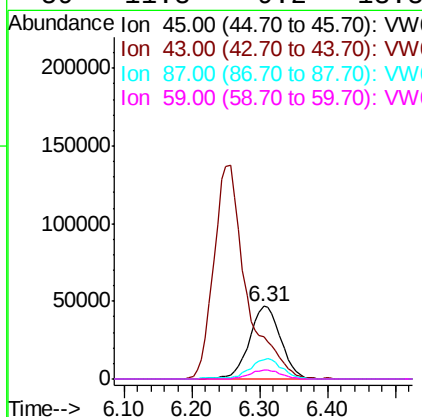
Manual Integrations
APPROVED

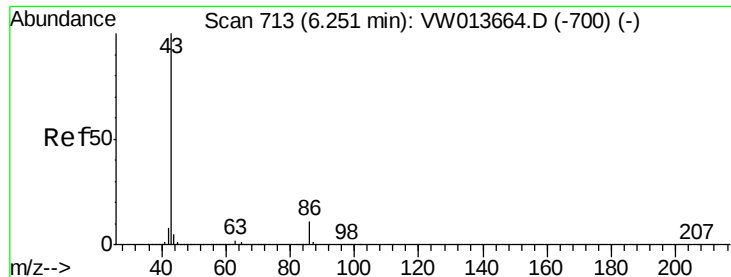
MMDadoda
11/12/2019 12:58:30 PM



#22
Diisopropyl ether
Concen: 20.658 ug/l
RT: 6.31 min Scan# 722
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
45	100		
43	56.6	43.4	65.2
87	27.1	21.5	32.3
59	11.8	9.2	13.8





#23

Vinyl Acetate

Concen: 107.089 ug/l

RT: 6.26 min Scan# 714

Delta R.T. 0.01 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

ClientSampleId :

VW1108SBS01

Tot Ion: 43 Resp: 455081

Ion Ratio Lower Upper

43 100

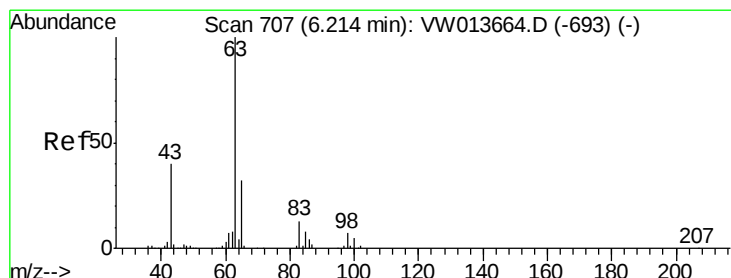
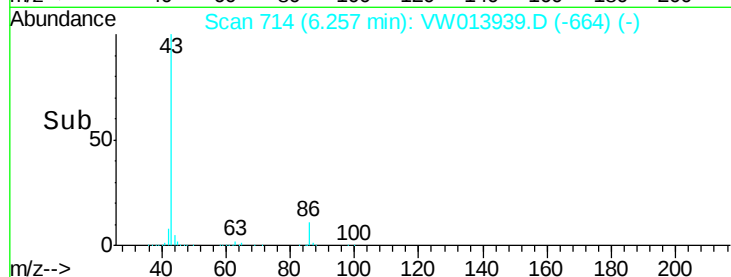
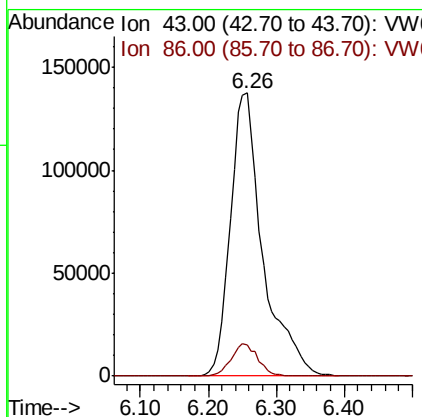
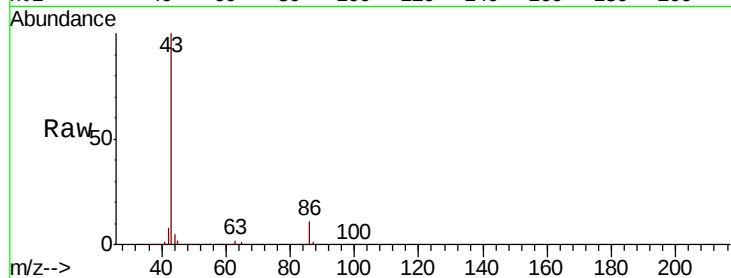
86 11.1 9.0 13.6

Manual Integrations

APPROVED

MMDadoda

11/12/2019 12:58:30 PM



#24

1,1-Dichloroethane

Concen: 20.709 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

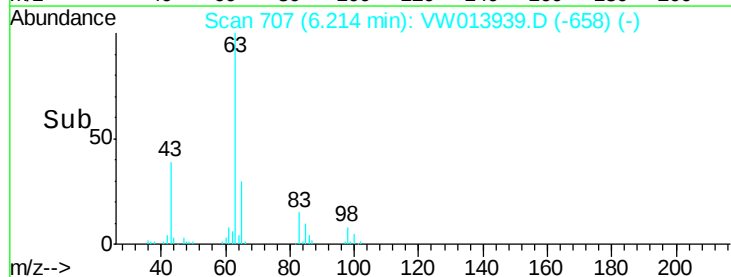
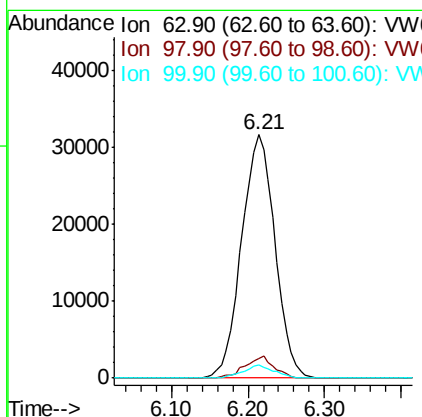
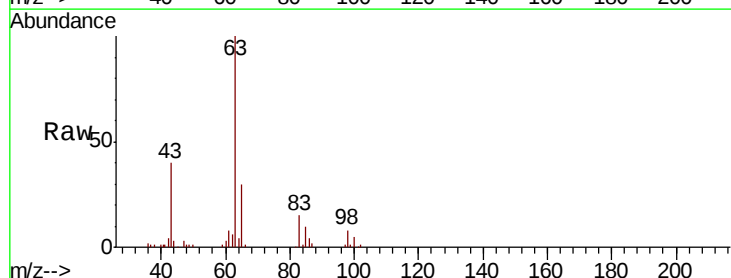
Tgt Ion: 63 Resp: 96055

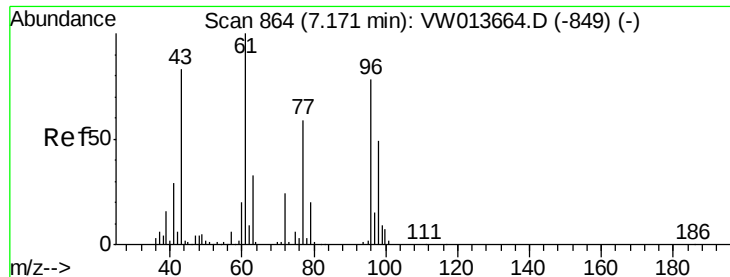
Ion Ratio Lower Upper

63 100

98 8.2 3.6 10.9

100 5.5 2.5 7.4





#25

2-Butanone

Concen: 123.616 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

ClientSampleId :

VW1108SBS01

Tot Ion: 43 Resp: 82300

Ion Ratio Lower Upper

43 100

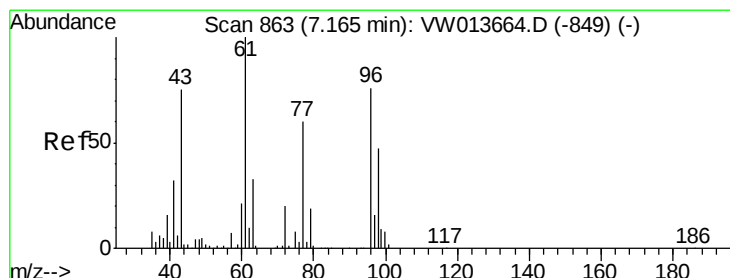
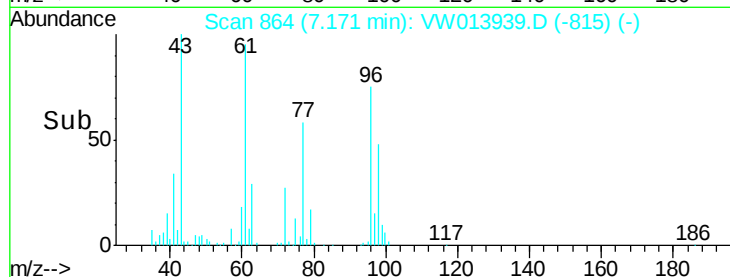
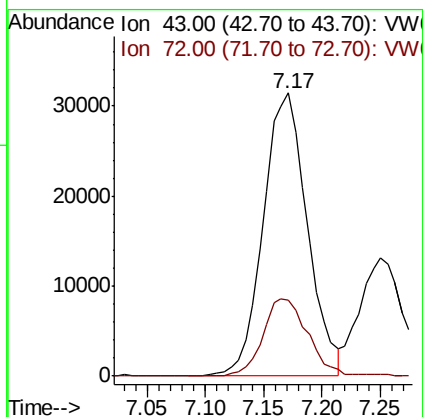
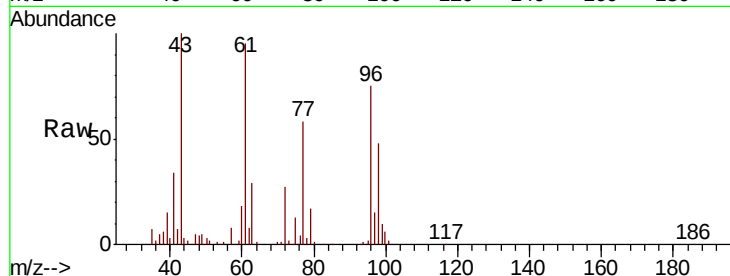
72 26.7 23.6 35.4

Manual Integrations

APPROVED

MMDadoda

11/12/2019 12:58:30 PM



#26

2,2-Dichloropropane

Concen: 21.483 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW013939.D

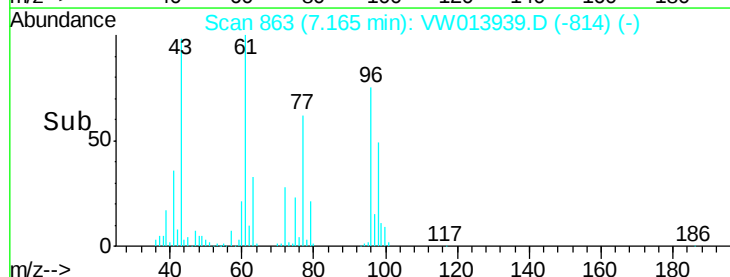
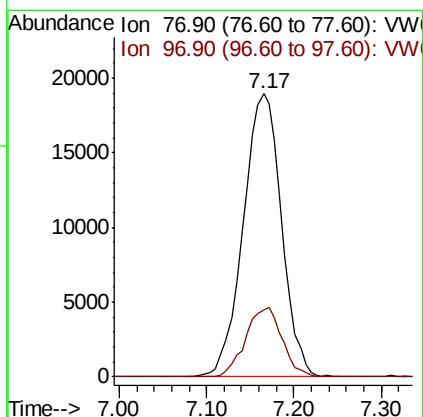
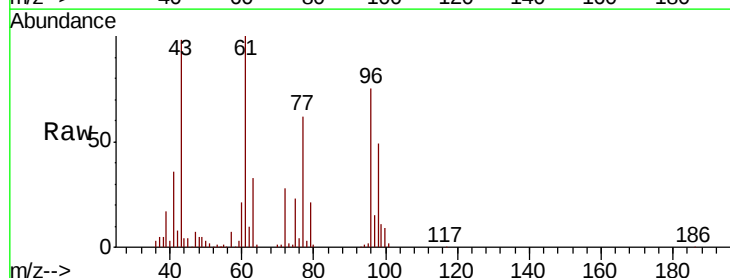
Acq: 08 Nov 2019 12:57

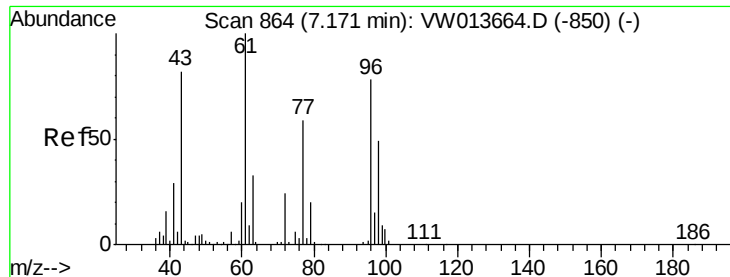
Tgt Ion: 77 Resp: 57621

Ion Ratio Lower Upper

77 100

97 23.3 12.8 38.4





#27

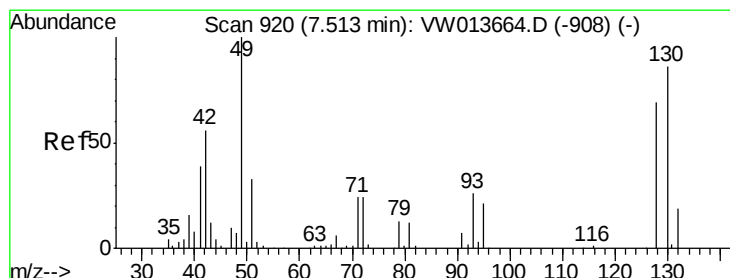
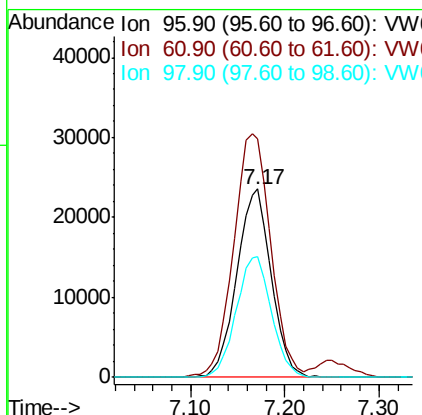
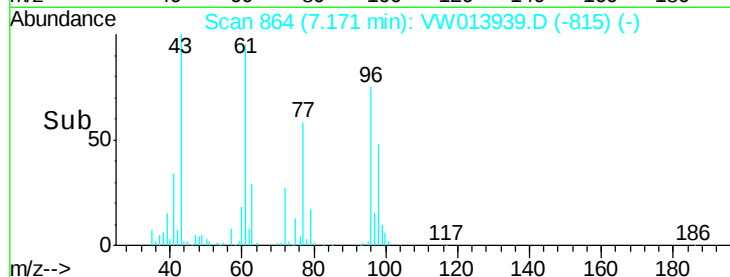
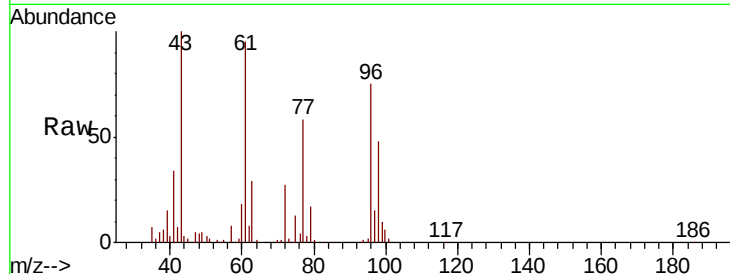
cis-1,2-Dichloroethene
Concen: 20.165 ug/l
RT: 7.17 min Scan# 864
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion	Ratio	Lower	Upper
96	100		
61	139.3	0.0	266.0
98	65.5	0.0	126.8

Manual Integrations
APPROVED

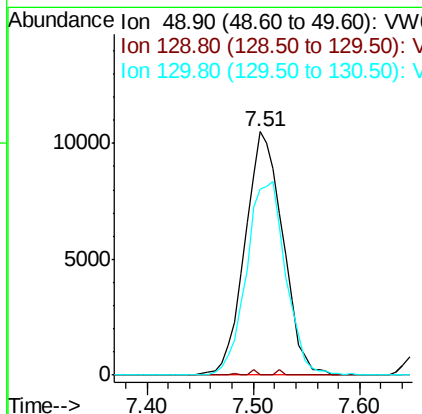
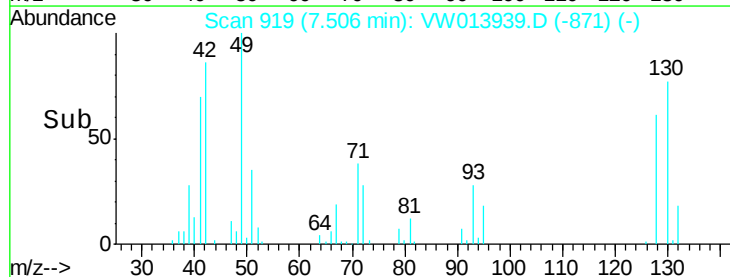
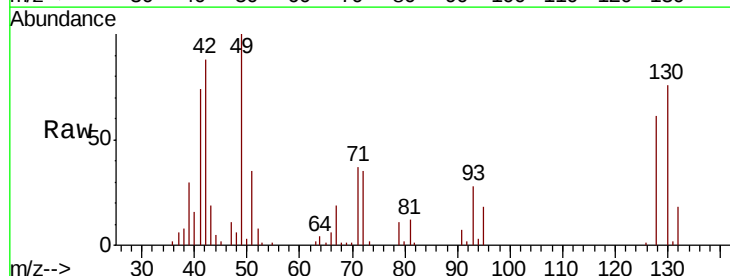
MMDadoda
11/12/2019 12:58:30 PM

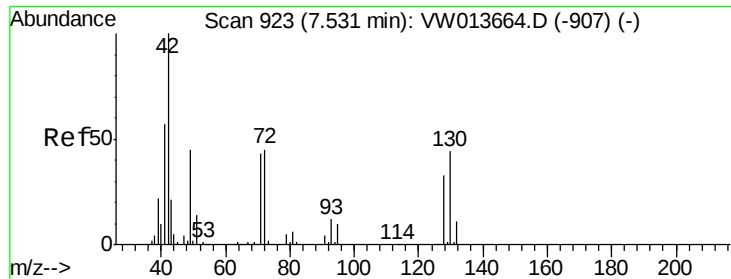


#28

Bromochloromethane
Concen: 16.791 ug/l
RT: 7.51 min Scan# 919
Delta R.T. -0.01 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.5	0.0	0.6
130	0.0	67.5	101.3#





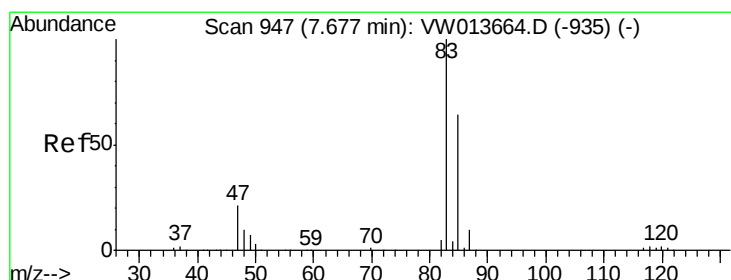
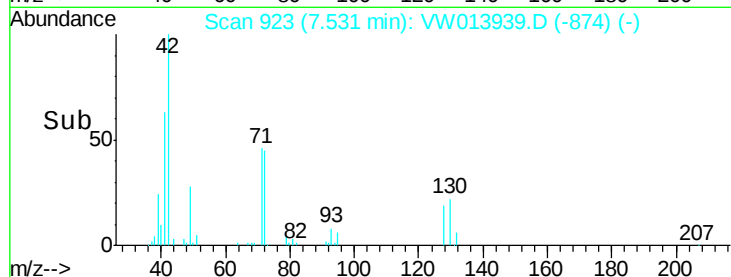
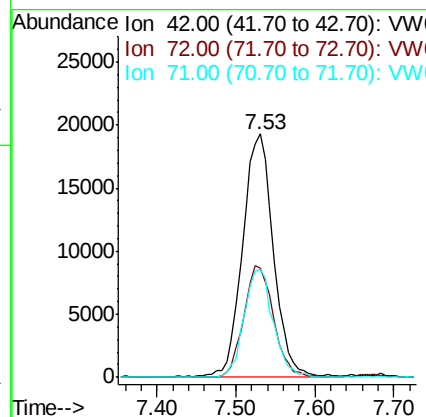
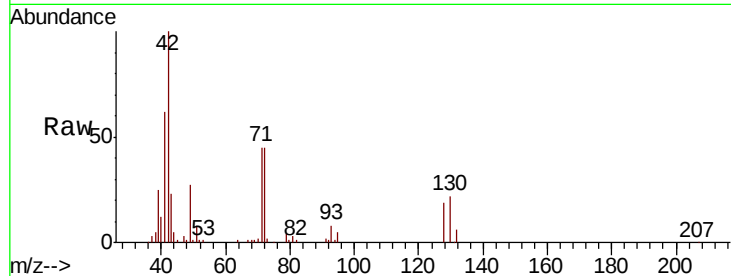
#29
Tetrahydrofuran
Concen: 127.645 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.3	35.3	52.9
71	42.1	33.3	49.9

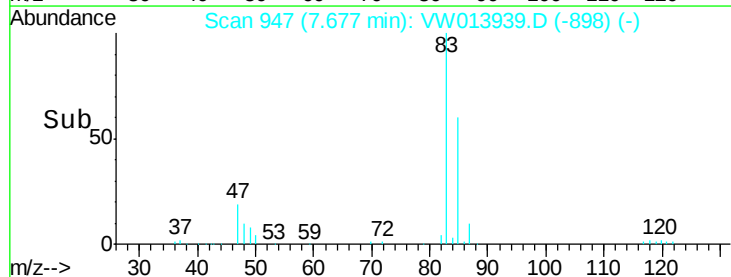
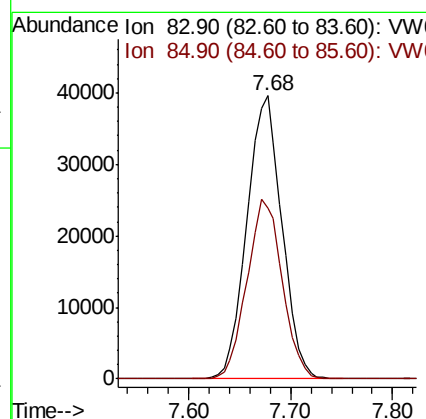
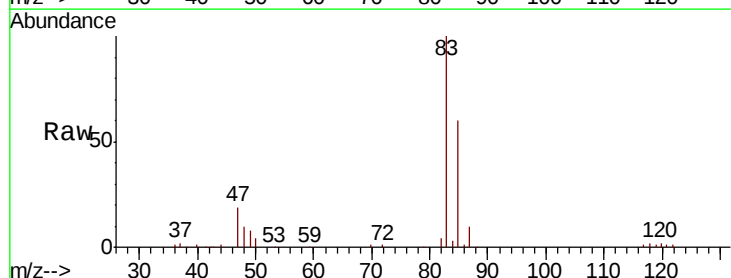
Manual Integrations
APPROVED

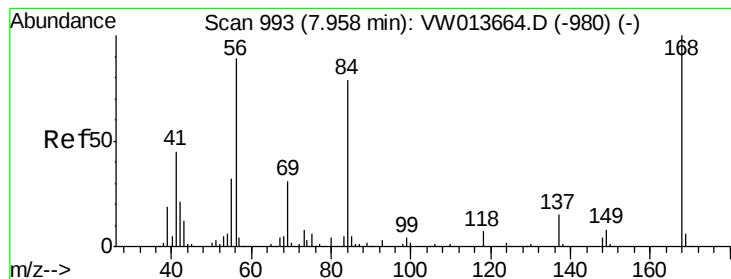
MMDadoda
11/12/2019 12:58:30 PM



#30
Chloroform
Concen: 20.616 ug/l
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
83	100		
85	60.2	51.4	77.2





#31

Cyclohexane

Concen: 20.603 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.01 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

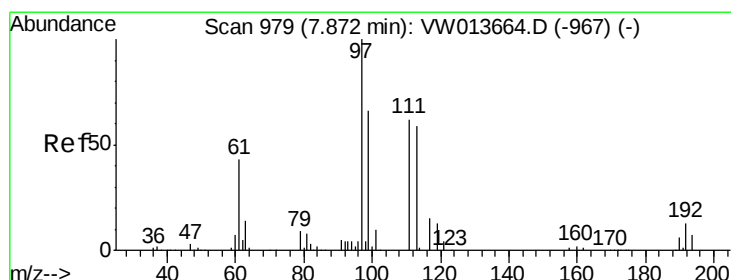
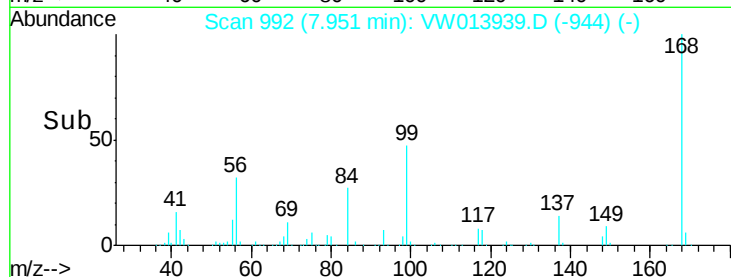
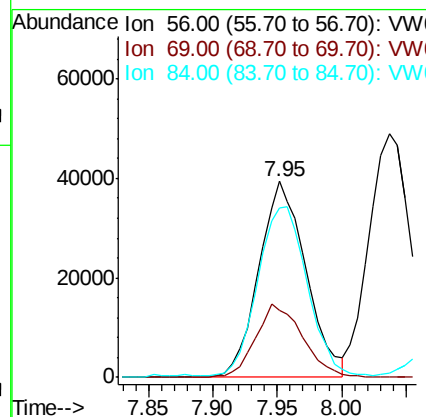
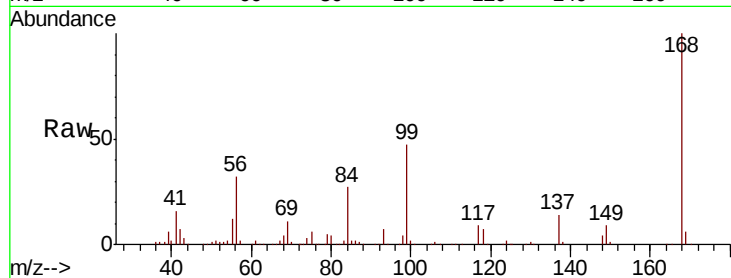
ClientSampleId :

VW1108SBS01

Tot Ion:	56	Resp:	100008
Ion Ratio	Lower	Upper	
56	100		
69	34.2	27.5	41.3
84	85.4	70.8	106.2

Manual Integrations
APPROVED

MMDadoda
11/12/2019 12:58:30 PM



#32

1,1,1-Trichloroethane

Concen: 21.916 ug/l

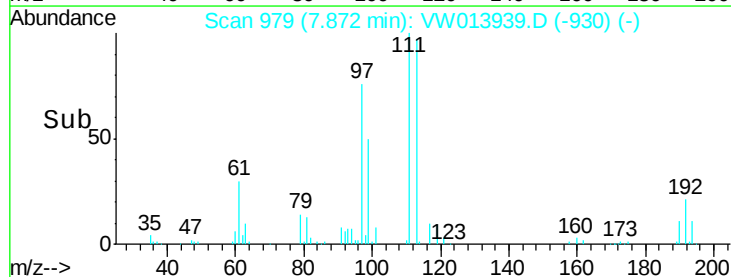
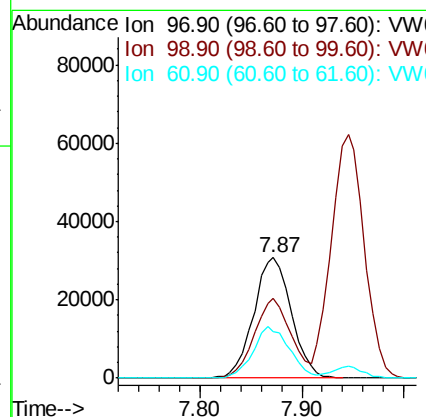
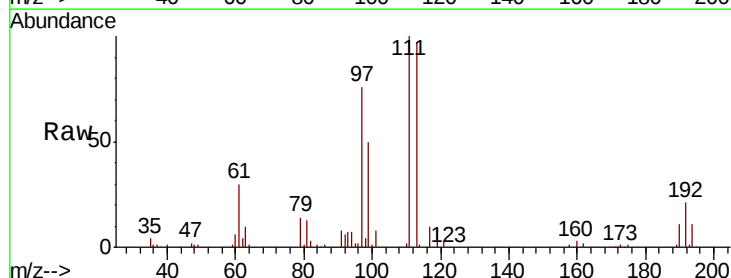
RT: 7.87 min Scan# 979

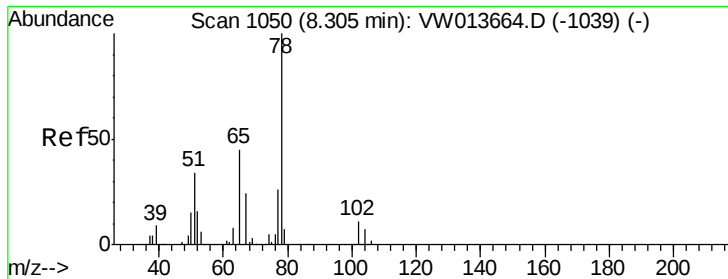
Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Tgt Ion:	97	Resp:	78857
Ion Ratio	Lower	Upper	
97	100		
99	64.7	52.0	78.0
61	41.3	33.8	50.6





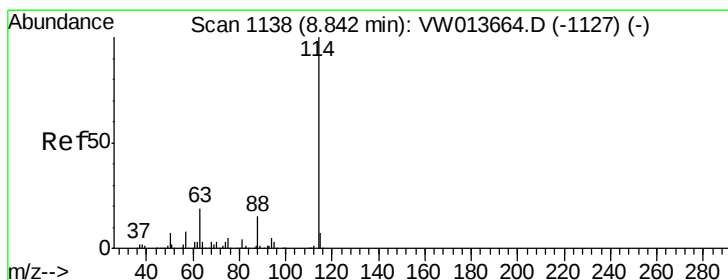
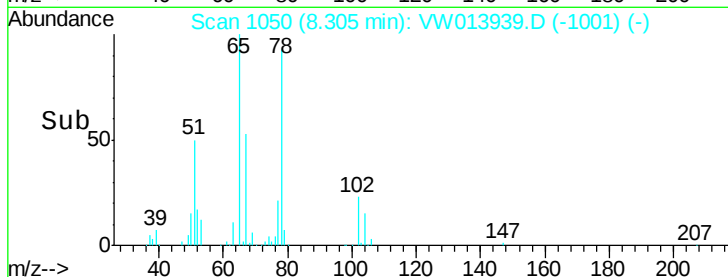
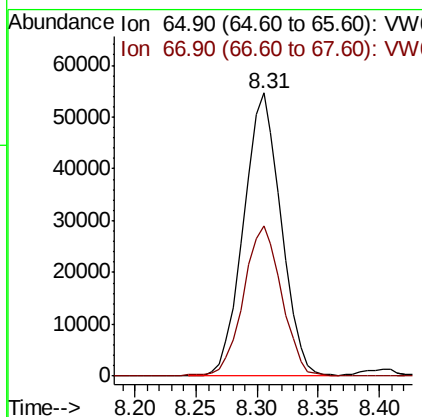
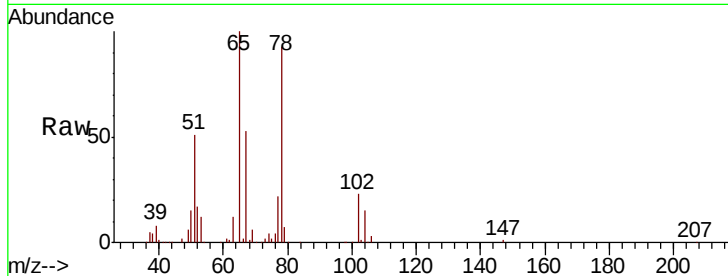
#33
 1,2-Dichloroethane-d4
 Concen: 53.372 ug/l
 RT: 8.31 min Scan# 1050
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1108SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	54.0	0.0	109.4	

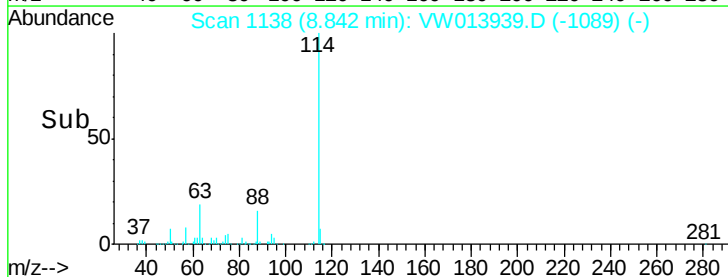
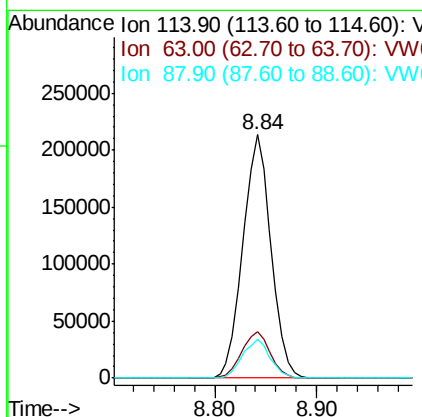
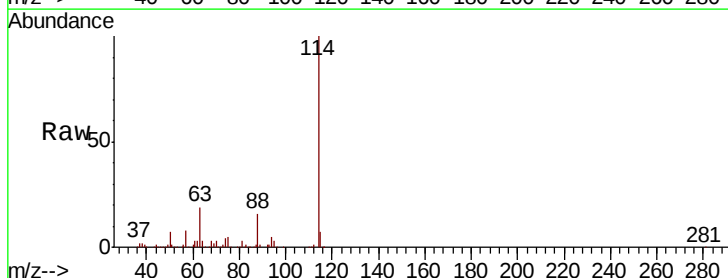
Manual Integrations
 APPROVED

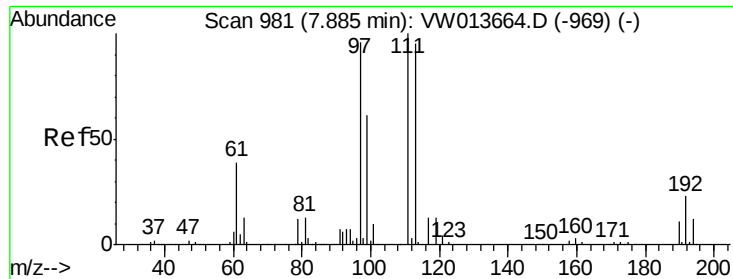
MMDadoda
 11/12/2019 12:58:30 PM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.9	0.0	37.6	
88	15.7	0.0	30.2	





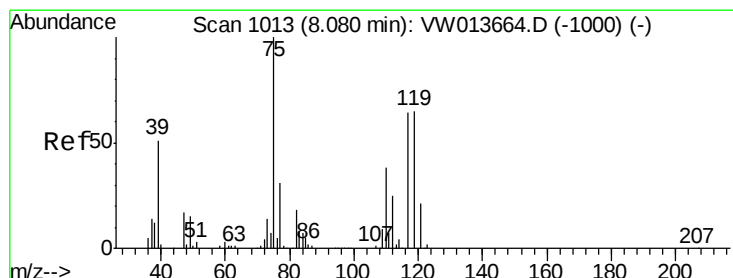
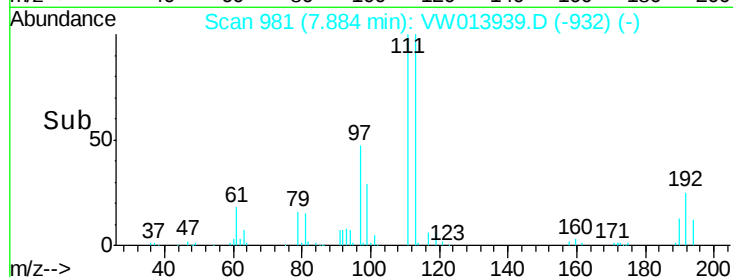
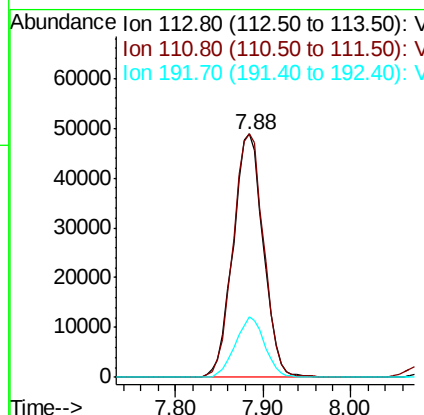
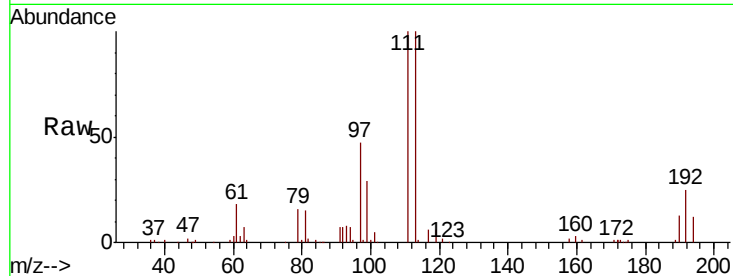
#35
Dibromofluoromethane
Concen: 51.705 ug/l
RT: 7.88 min Scan# 981
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.2	83.0	124.6	
192	23.9	19.4	29.2	

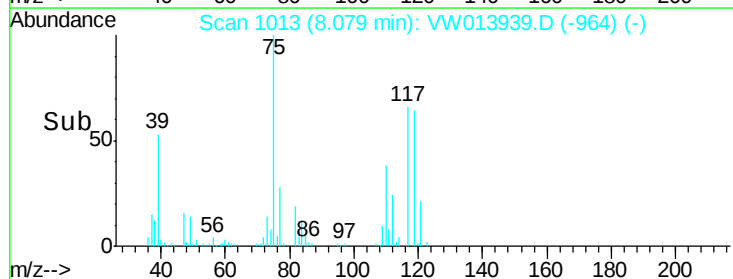
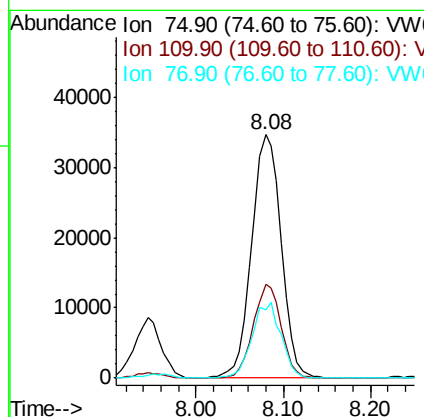
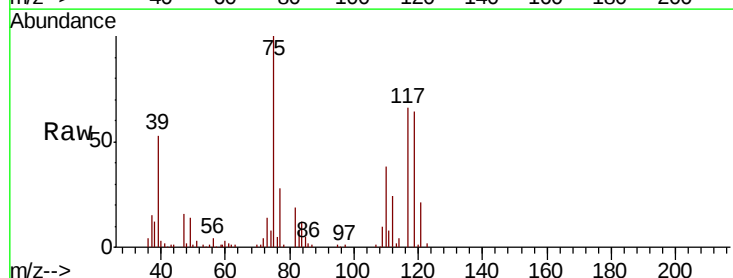
Manual Integrations
APPROVED

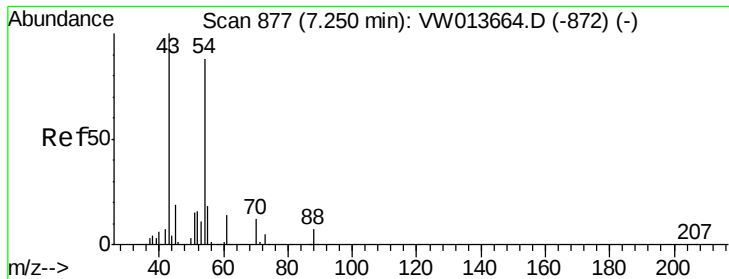
MMDadoda
11/12/2019 12:58:30 PM



#36
1,1-Dichloropropene
Concen: 21.475 ug/l
RT: 8.08 min Scan# 1013
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	36.4	18.7	56.1	
77	30.4	25.4	38.0	





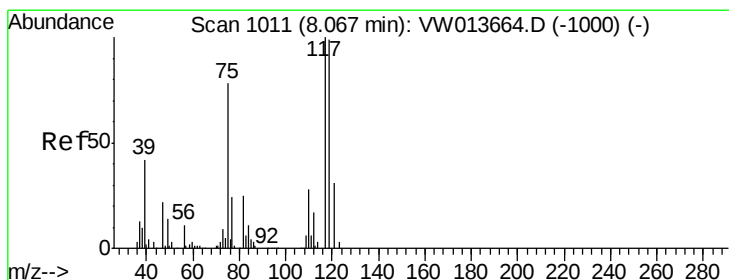
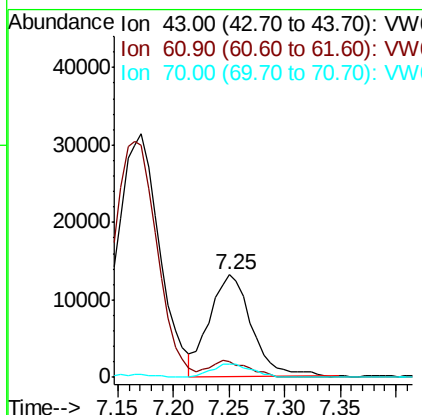
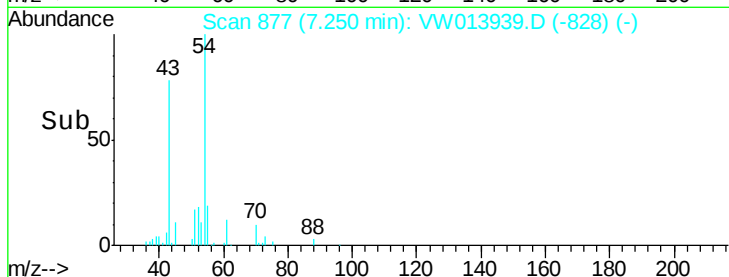
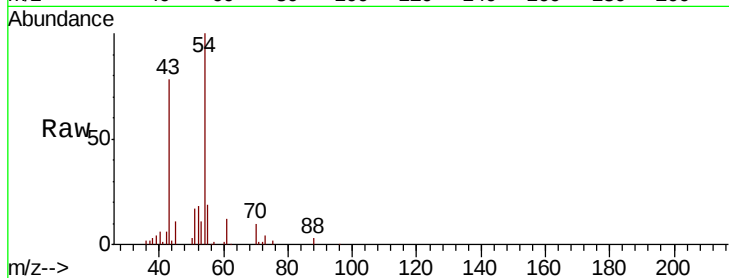
#37
Ethyl Acetate
Concen: 23.840 ug/l
RT: 7.25 min Scan# 877
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBSD01

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.5	11.7	17.5
70	12.7	8.8	13.2

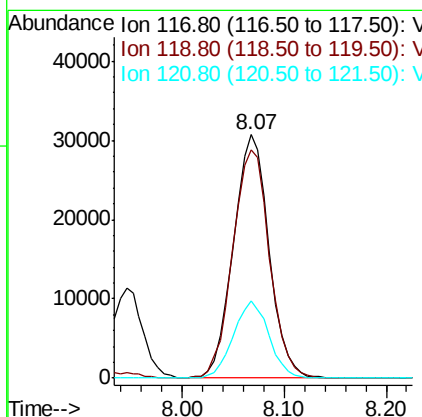
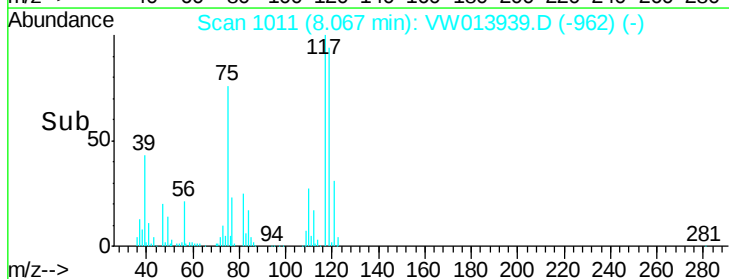
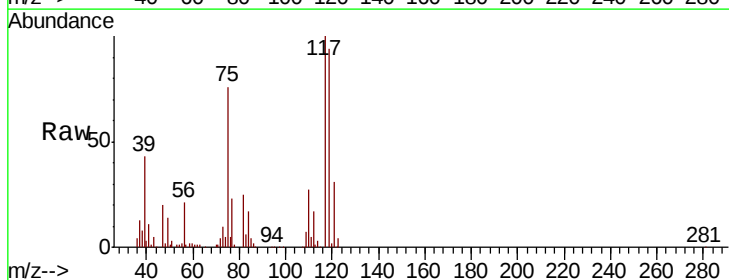
Manual Integrations
APPROVED

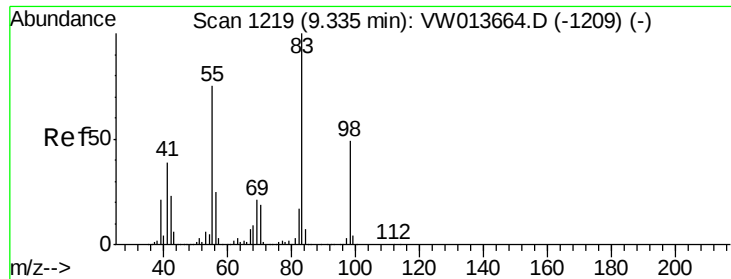
MMDadoda
11/12/2019 12:58:30 PM



#38
Carbon Tetrachloride
Concen: 21.729 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.8	79.0	118.4
121	31.5	24.5	36.7





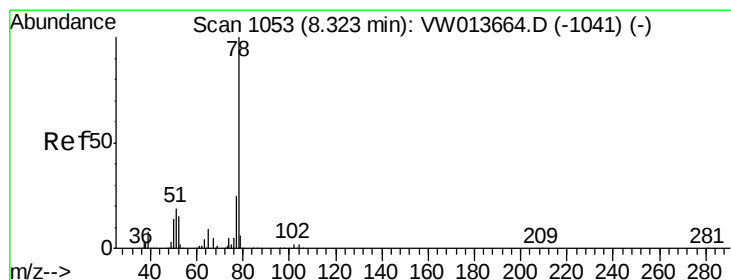
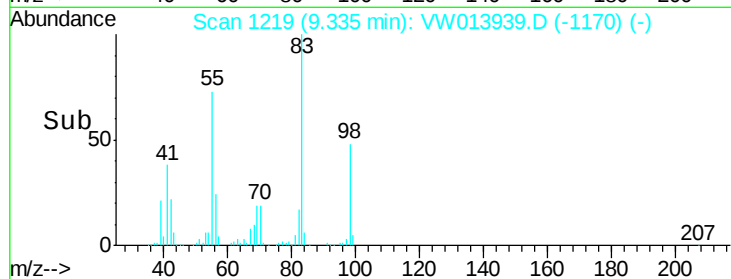
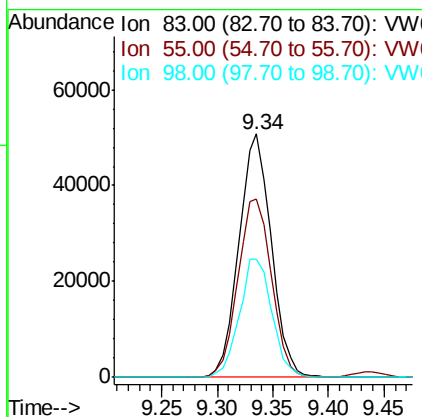
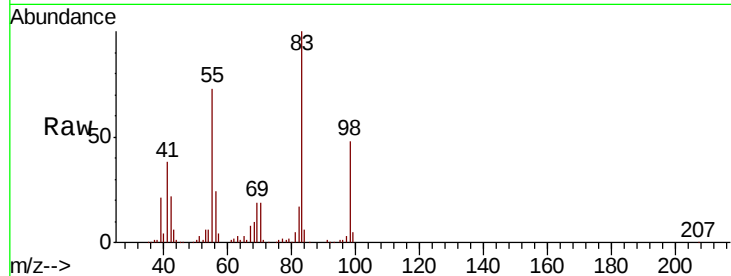
#39
Methvlcvclohexane
Concen: 20.915 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBSD01

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	73.3	59.9	89.9	
98	48.5	39.4	59.2	

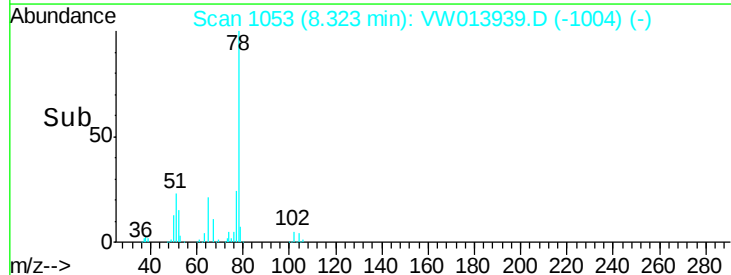
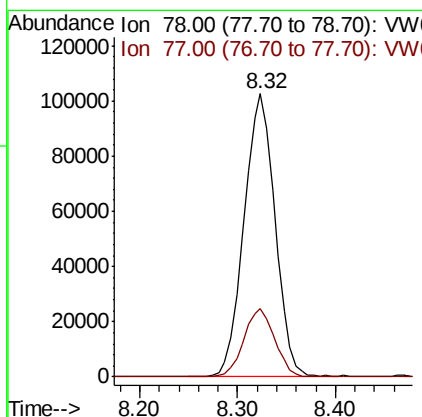
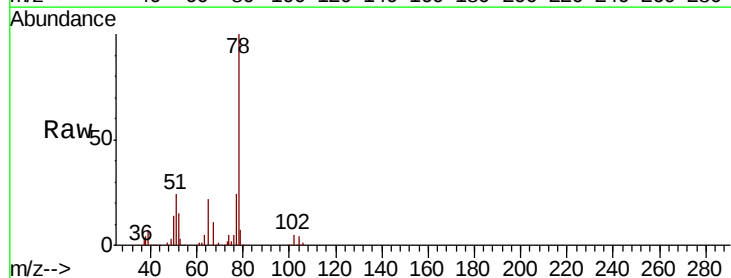
Manual Integrations
APPROVED

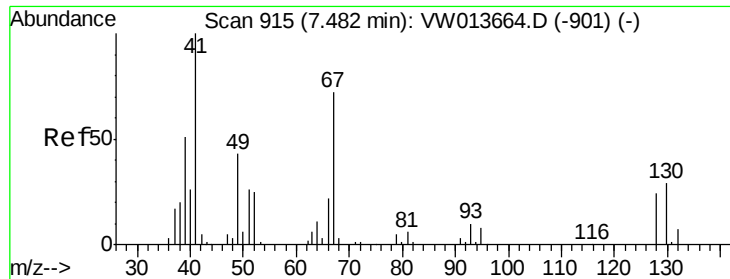
MMDadoda
11/12/2019 12:58:30 PM



#40
Benzene
Concen: 21.049 ug/l
RT: 8.32 min Scan# 1053
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.9	19.6	29.4	





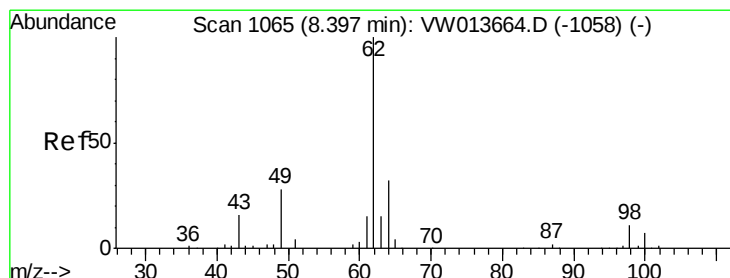
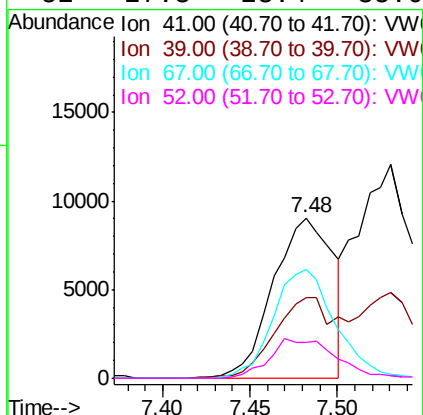
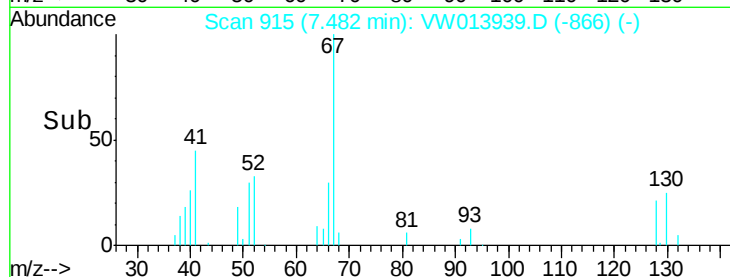
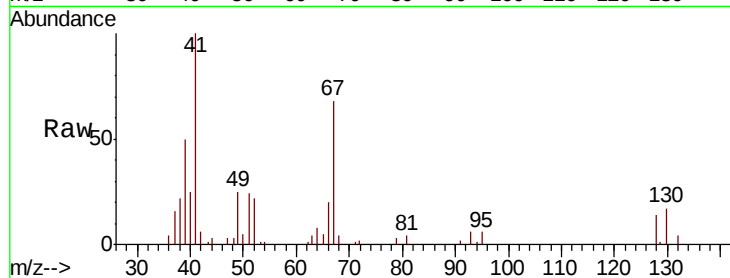
#41
Methacrylonitrile
Concen: 23.882 ug/l
RT: 7.48 min Scan# 915
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion:	41	Resp:	21643
Ion	Ratio	Lower	Upper
41	100		
39	54.3	44.8	67.2
67	71.1	59.3	88.9
52	27.3	23.4	35.0

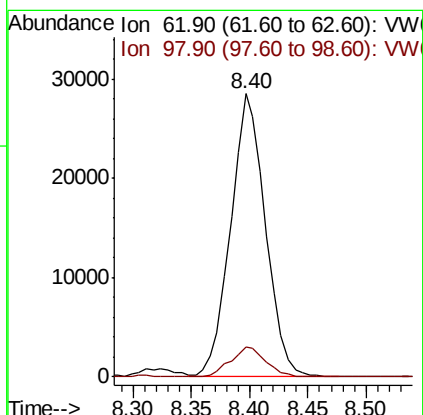
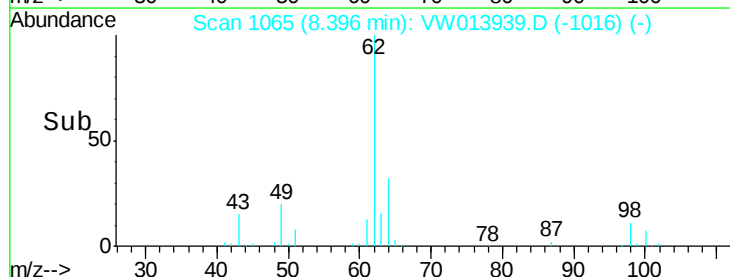
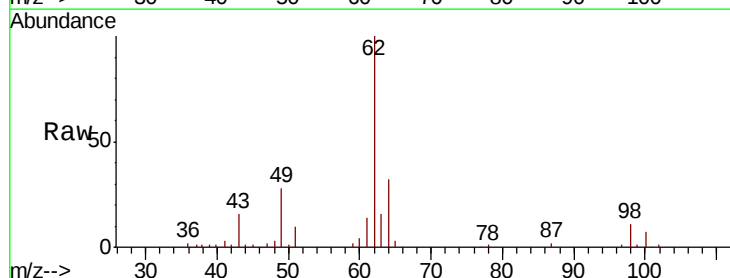
Manual Integrations
APPROVED

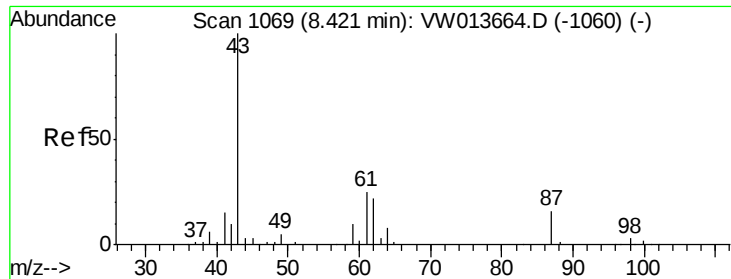
MMDadoda
11/12/2019 12:58:30 PM



#42
1,2-Dichloroethane
Concen: 21.816 ug/l
RT: 8.40 min Scan# 1065
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion:	62	Resp:	59065
Ion	Ratio	Lower	Upper
62	100		
98	10.7	0.0	22.4





#43

Isopropyl Acetate

Concen: 23.459 ug/l

RT: 8.42 min Scan# 1069

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

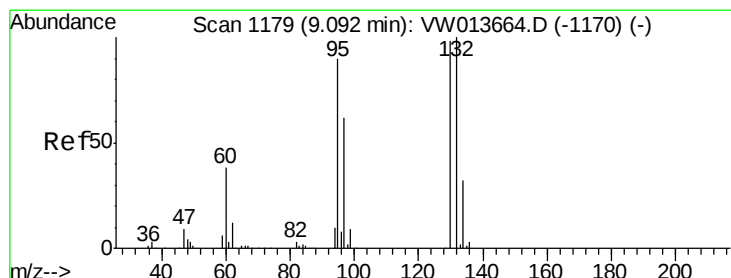
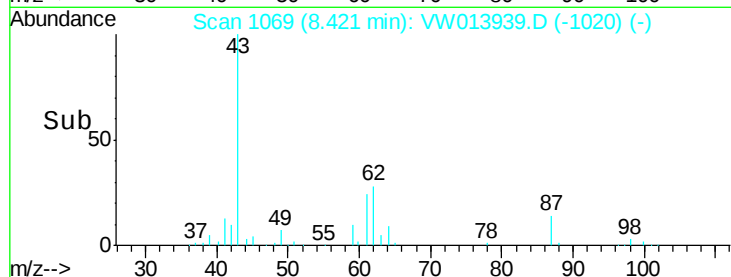
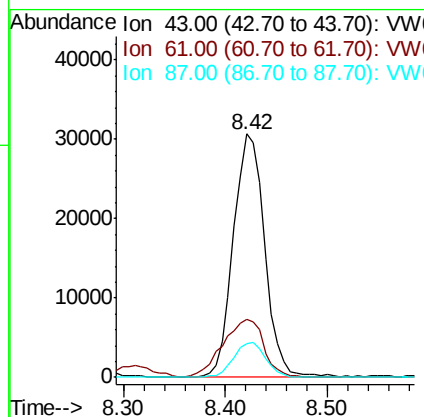
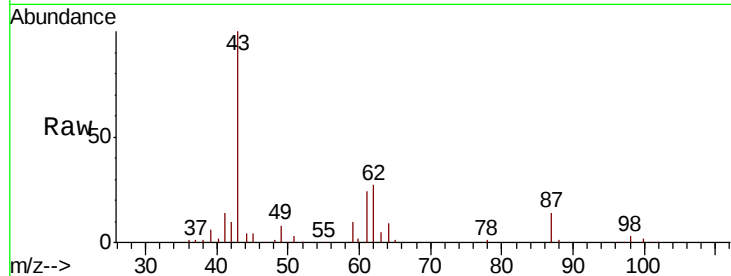
ClientSampleId :

VW1108SBS01

Tot Ion:	43	Resp:	65258
Ion	Ratio	Lower	Upper
43	100		
61	31.2	26.1	39.1
87	14.6	11.4	17.0

Manual Integrations
APPROVED

MMDadoda
11/12/2019 12:58:30 PM



#44

Trichloroethene

Concen: 21.205 ug/l

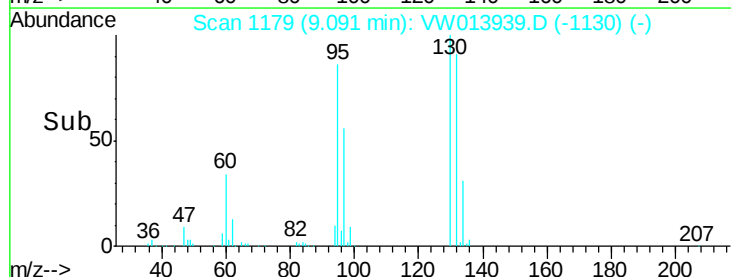
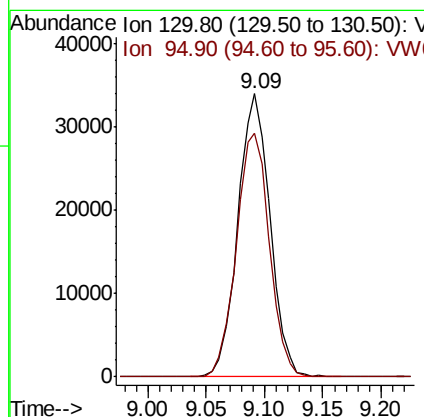
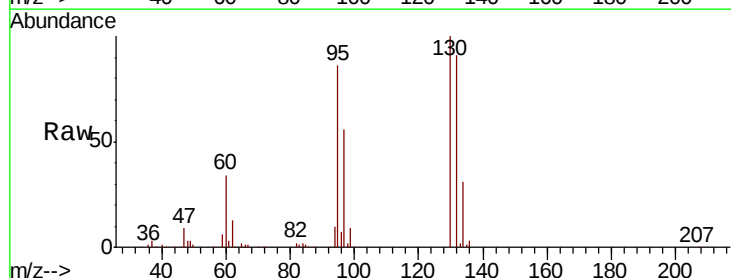
RT: 9.09 min Scan# 1179

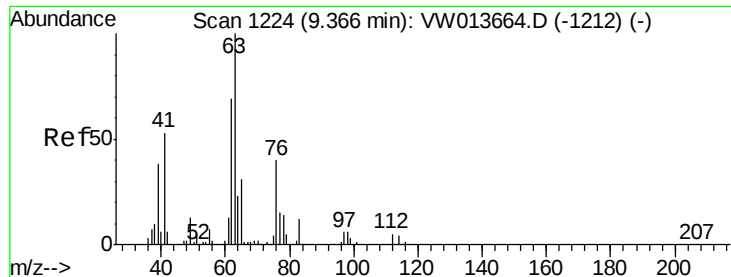
Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Tgt Ion:	130	Resp:	65259
Ion	Ratio	Lower	Upper
130	100		
95	85.9	0.0	184.6





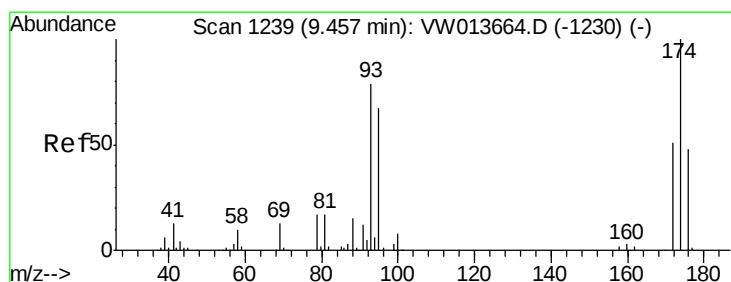
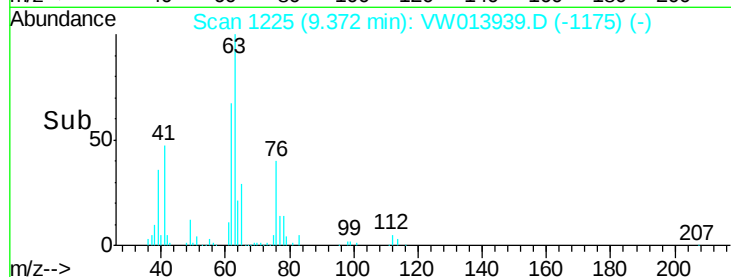
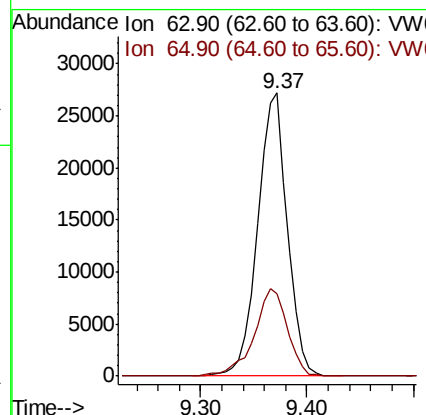
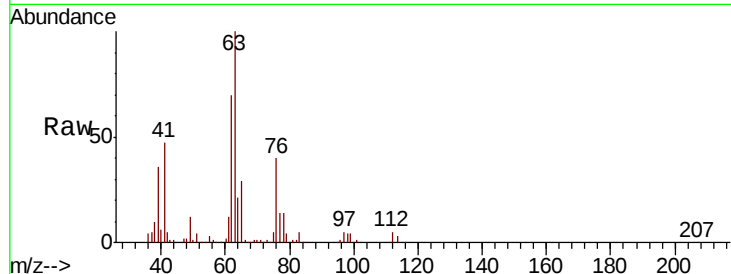
#45
 1,2-Dichloropropane
 Concen: 20.680 ug/l
 RT: 9.37 min Scan# 1225
 Delta R.T. 0.01 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1108SBS01

Tot Ion: 63 Resp: 53069
 Ion Ratio Lower Upper
 63 100
 65 29.2 25.2 37.8

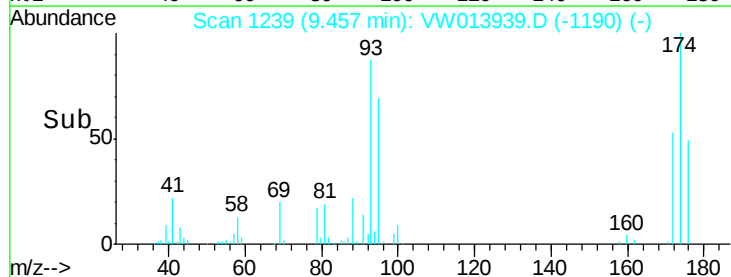
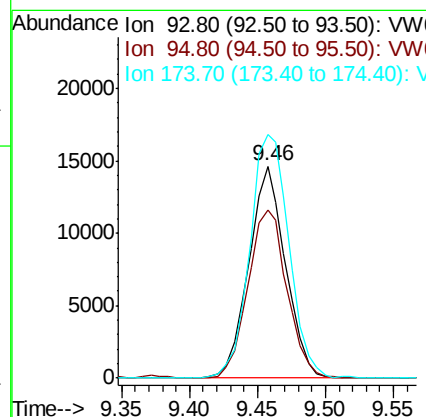
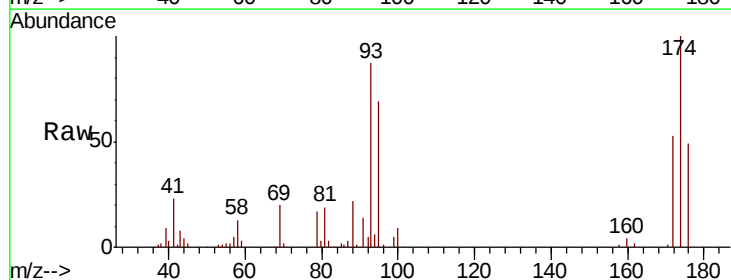
Manual Integrations
 APPROVED

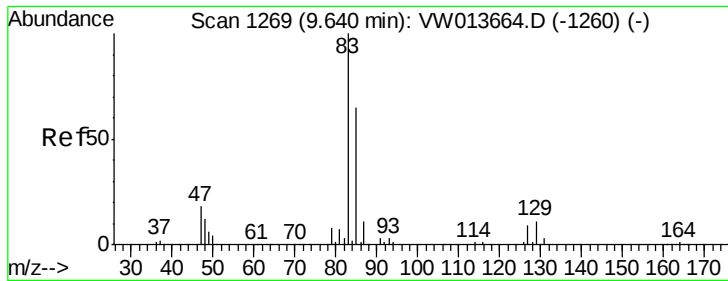
MMDadoda
 11/12/2019 12:58:30 PM



#46
 Dibromomethane
 Concen: 22.151 ug/l
 RT: 9.46 min Scan# 1239
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Tgt Ion: 93 Resp: 27590
 Ion Ratio Lower Upper
 93 100
 95 84.5 66.5 99.7
 174 122.9 99.6 149.4





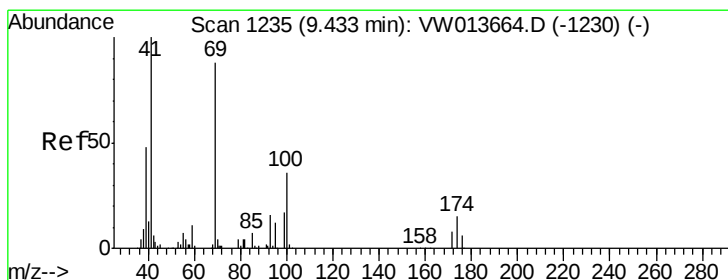
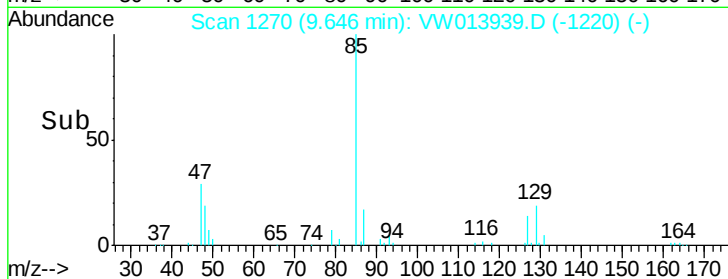
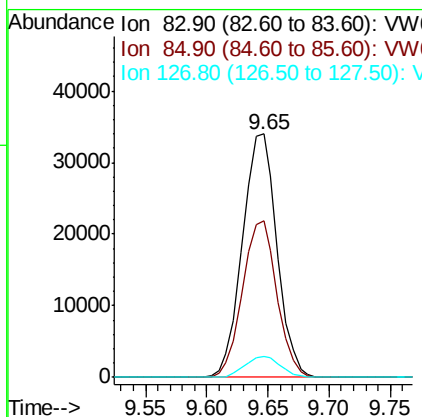
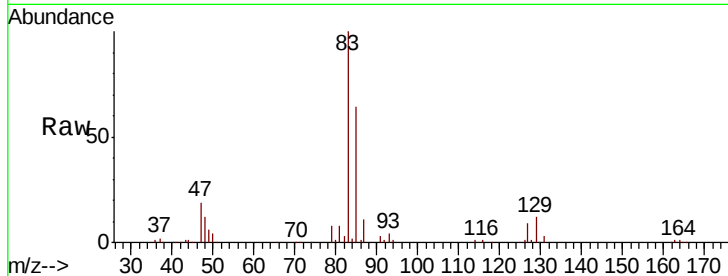
#47
Bromodichloromethane
Concen: 20.639 ug/l
RT: 9.65 min Scan# 1270
Delta R.T. 0.01 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion	83	85	127	Ratio	Lower	Upper
83	100					
85	64.2			51.8	77.6	
127	8.8			7.3	10.9	

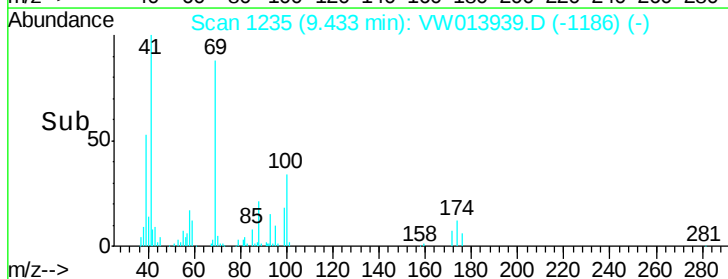
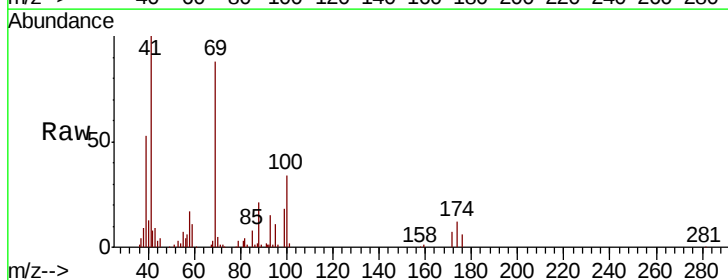
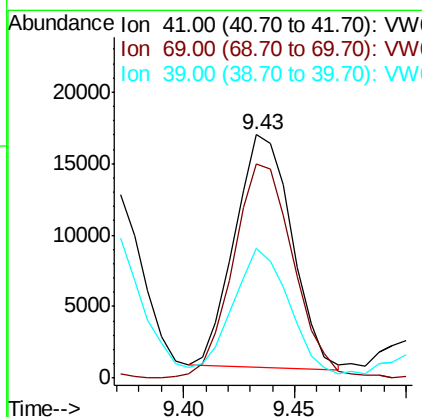
Manual Integrations
APPROVED

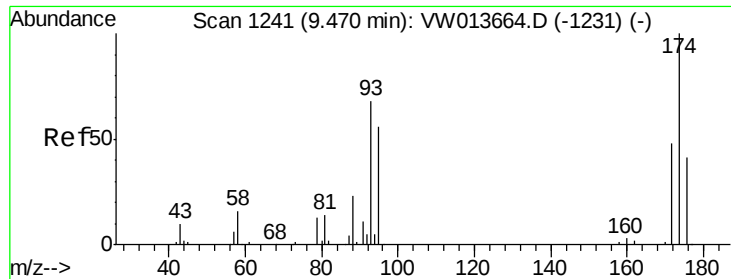
MMDadoda
11/12/2019 12:58:30 PM



#48
Methyl methacrylate
Concen: 21.120 ug/l
RT: 9.43 min Scan# 1235
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	41	69	39	Ratio	Lower	Upper
41	100					
69	97.9			67.6	101.4	
39	51.9			38.6	58.0	





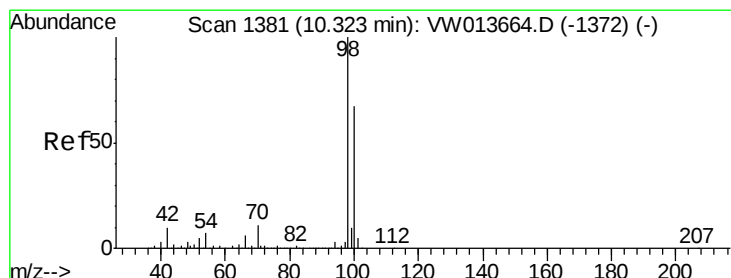
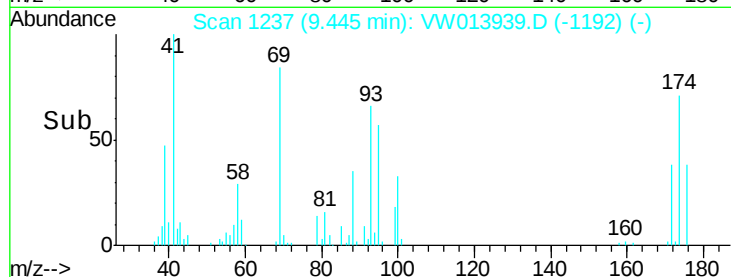
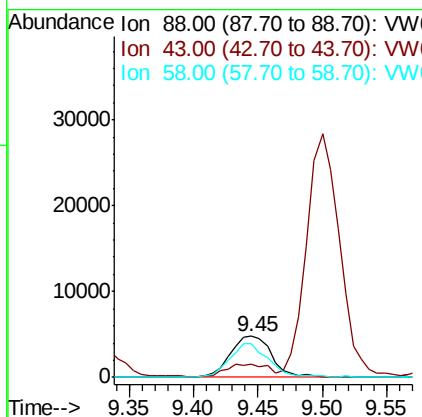
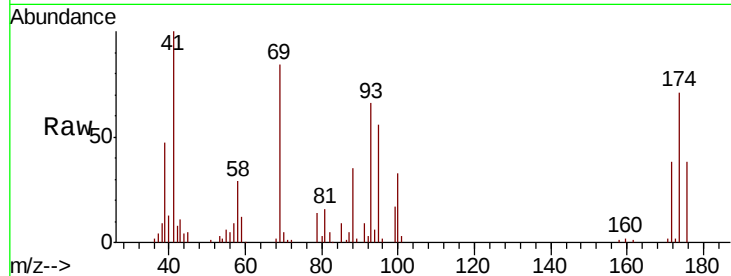
#49
1,4-Dioxane
Concen: 578.420 ug/l
RT: 9.45 min Scan# 1237
Delta R.T. -0.02 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion	88	Resp	10646
Ion	Ratio	Lower	Upper
88	100		
43	30.4	0.0	0.0#
58	79.7	58.9	88.3

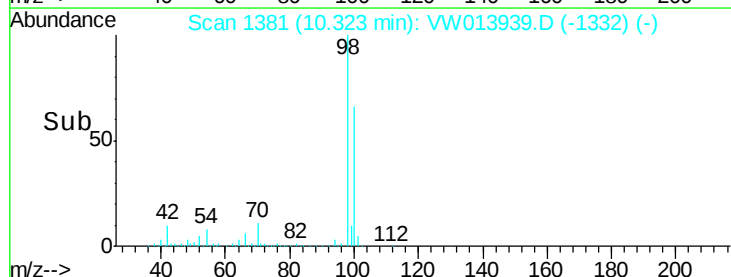
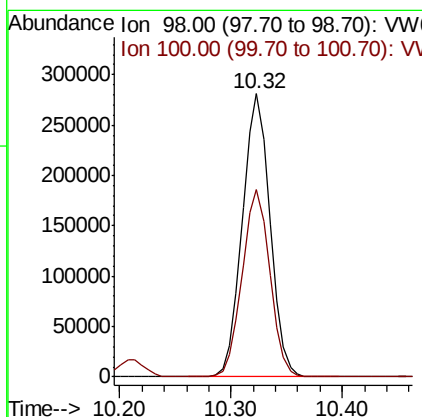
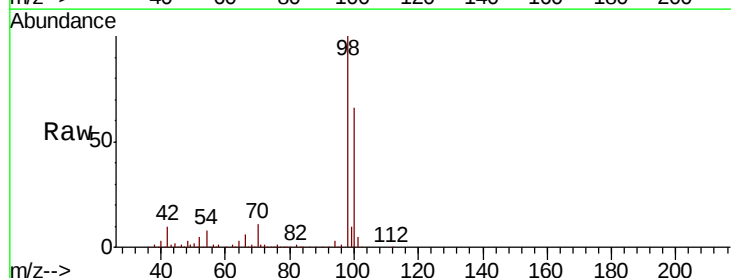
Manual Integrations
APPROVED

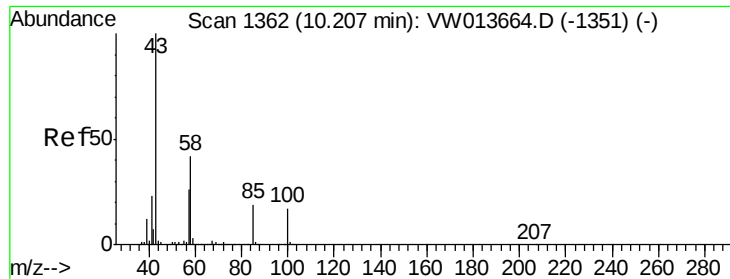
MMDadoda
11/12/2019 12:58:30 PM



#50
Toluene-d8
Concen: 52.473 ug/l
RT: 10.32 min Scan# 1381
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	98	Resp	484306
Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.4	80.0





#51

4-Methyl-2-Pentanone

Concen: 126.115 ug/l

RT: 10.21 min Scan# 1362

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

ClientSampleId :

VW1108SBS01

Tot Ion: 43 Resp: 174328

Ion Ratio Lower Upper

43 100

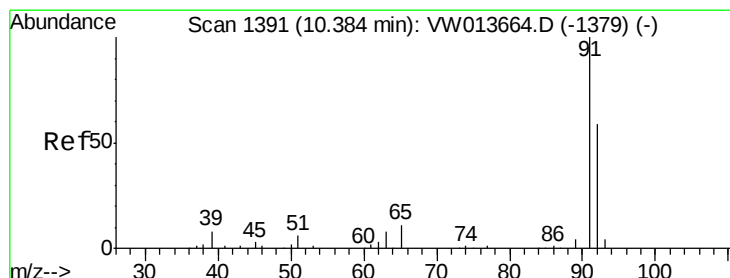
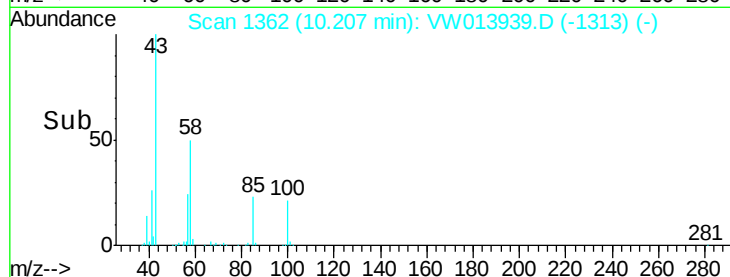
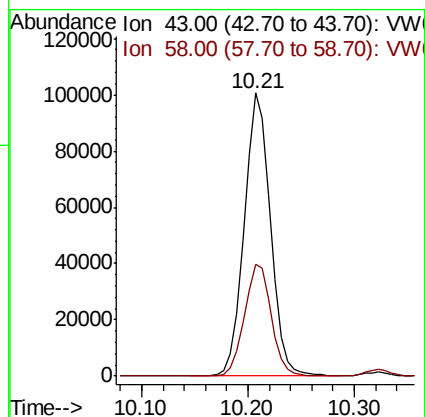
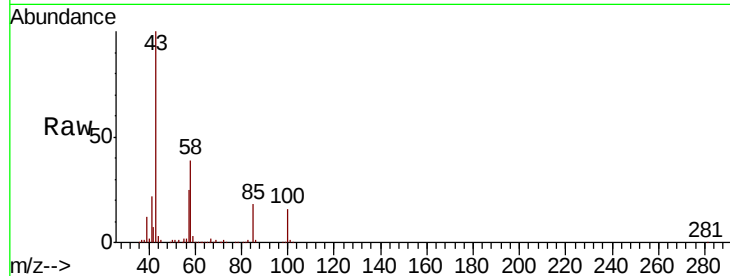
58 40.4 32.6 49.0

Manual Integrations

APPROVED

MMDadoda

11/12/2019 12:58:30 PM



#52

Toluene

Concen: 20.822 ug/l

RT: 10.38 min Scan# 1391

Delta R.T. -0.00 min

Lab File: VW013939.D

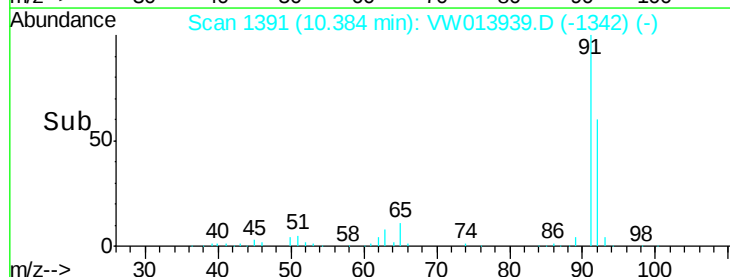
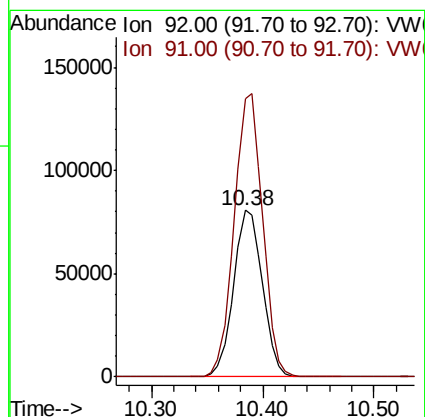
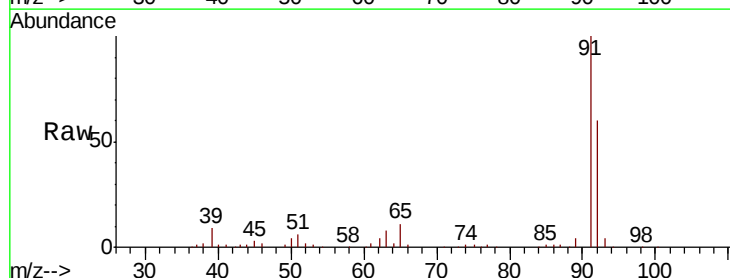
Acq: 08 Nov 2019 12:57

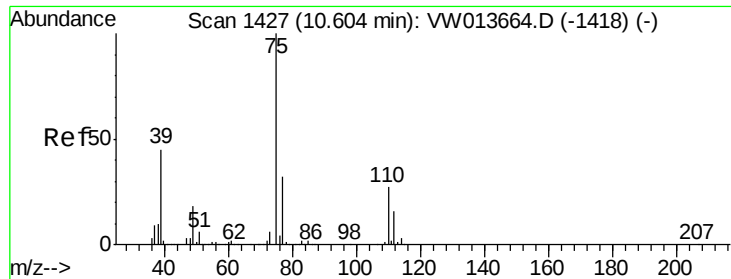
Tgt Ion: 92 Resp: 144301

Ion Ratio Lower Upper

92 100

91 168.7 134.5 201.7





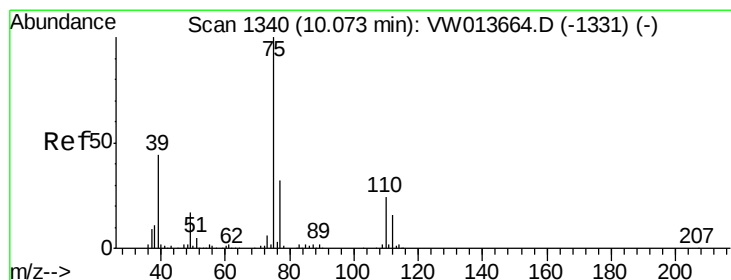
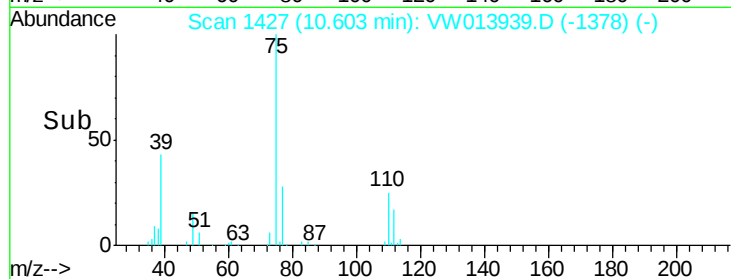
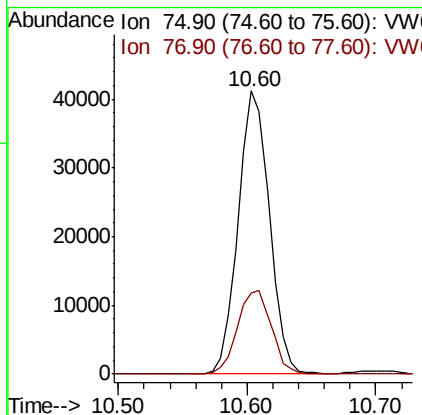
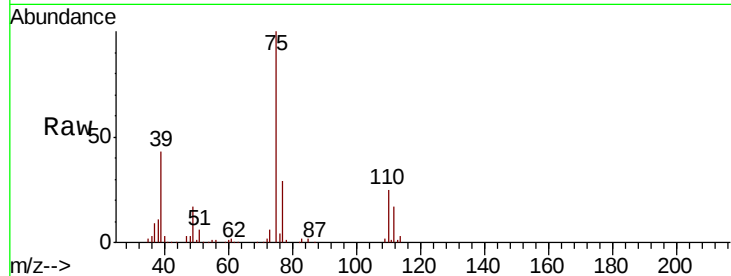
#53
 t-1,3-Dichloropropene
 Concen: 21.262 ug/l
 RT: 10.60 min Scan# 1427
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1108SBS01

Tot Ion: 75 Resp: 69367
 Ion Ratio Lower Upper
 75 100
 77 28.6 25.5 38.3

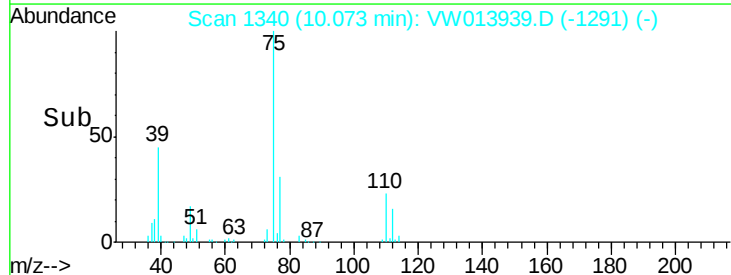
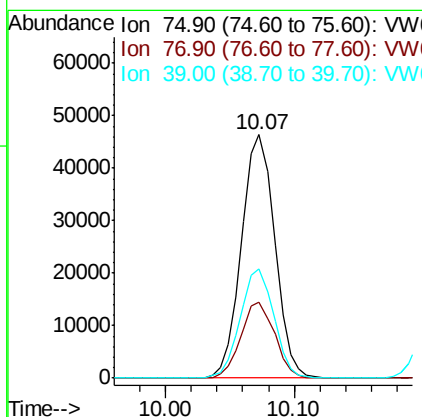
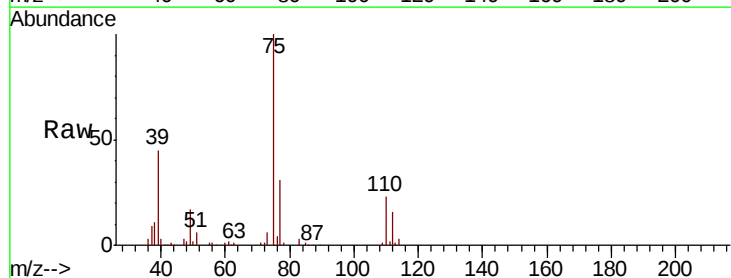
Manual Integrations
 APPROVED

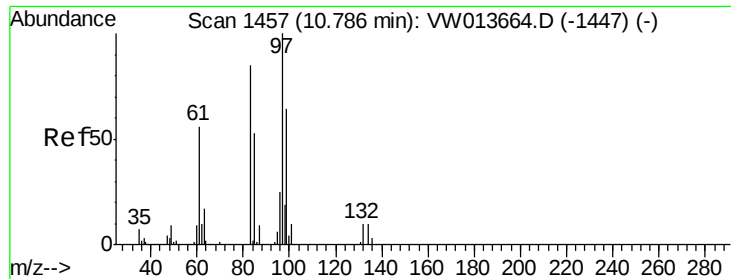
MMDadoda
 11/12/2019 12:58:30 PM



#54
 cis-1,3-Dichloropropene
 Concen: 20.659 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Tgt Ion: 75 Resp: 83157
 Ion Ratio Lower Upper
 75 100
 77 31.3 25.8 38.6
 39 45.1 35.3 52.9





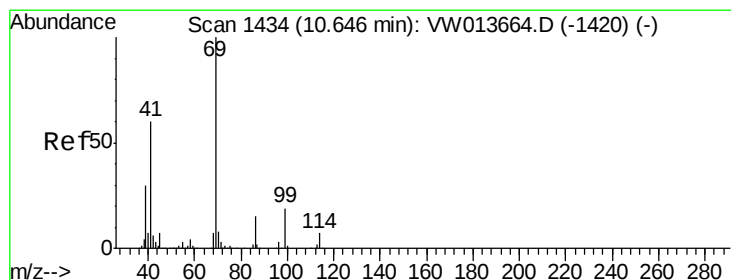
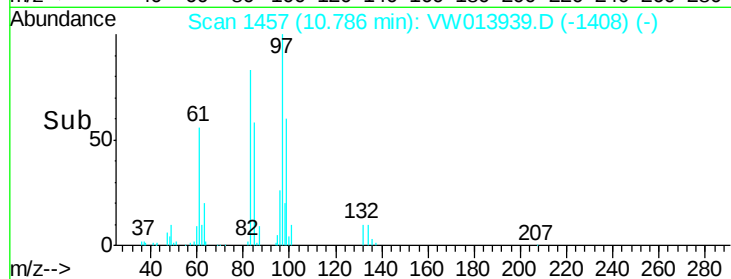
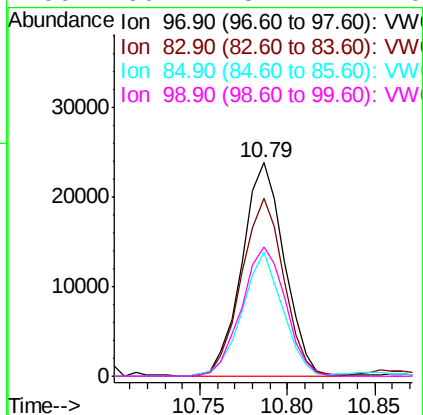
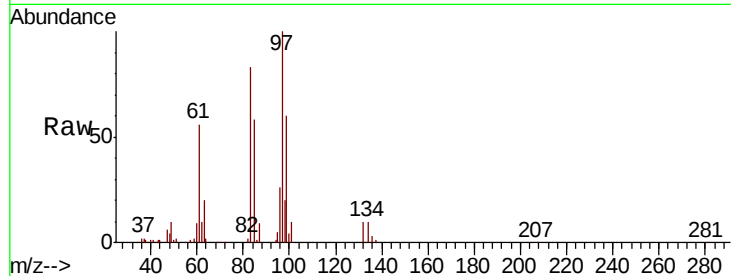
#55
 1,1,2-Trichloroethane
 Concen: 21.587 ug/l
 RT: 10.79 min Scan# 1457
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1108SBS01

Tot Ion:	97	Resp:	40072
Ion	Ratio	Lower	Upper
97	100		
83	83.4	67.8	101.8
85	58.1	42.1	63.1
99	60.4	51.4	77.0

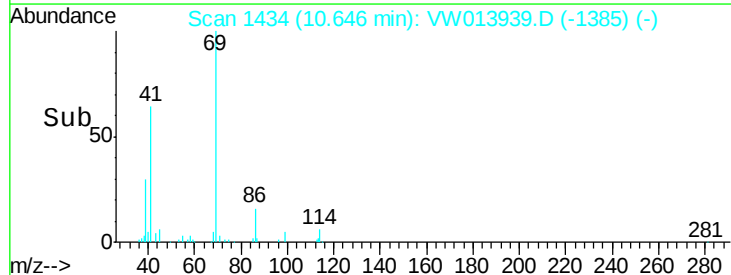
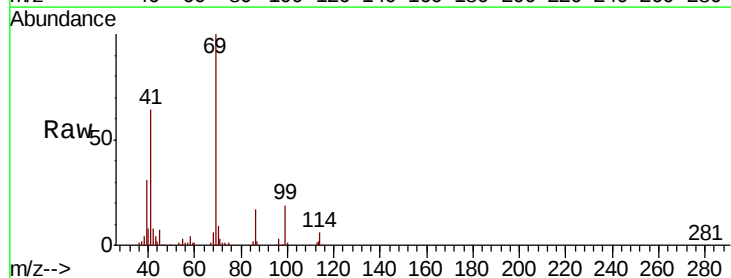
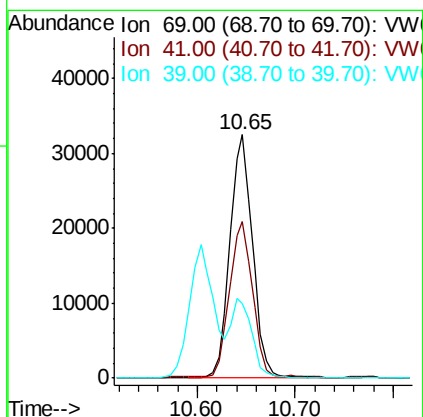
Manual Integrations
 APPROVED

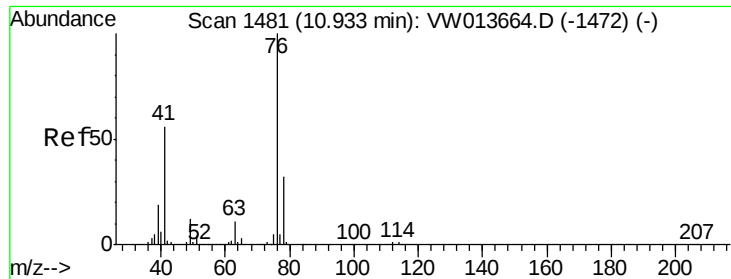
MMDadoda
 11/12/2019 12:58:30 PM



#56
 Ethyl methacrylate
 Concen: 22.616 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Tgt Ion:	69	Resp:	52524
Ion	Ratio	Lower	Upper
69	100		
41	63.7	51.6	77.4
39	30.4	22.4	33.6





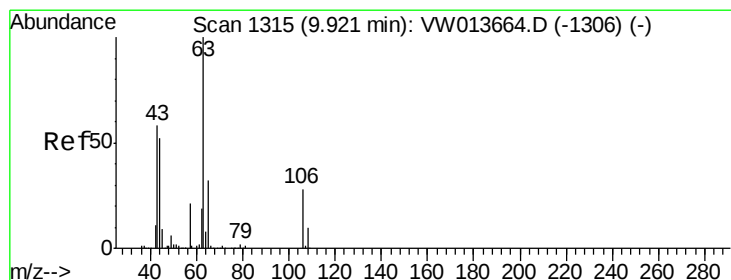
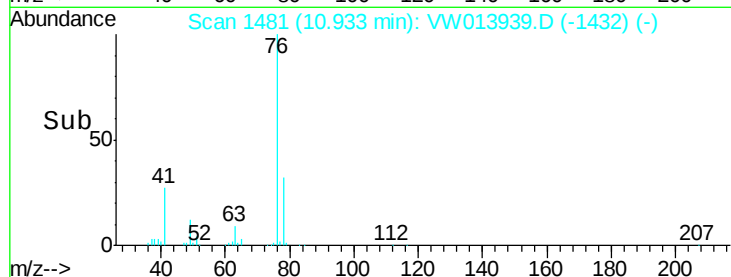
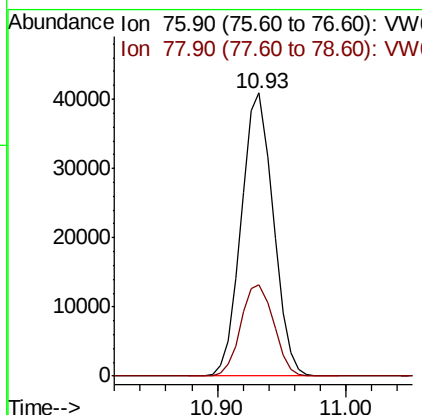
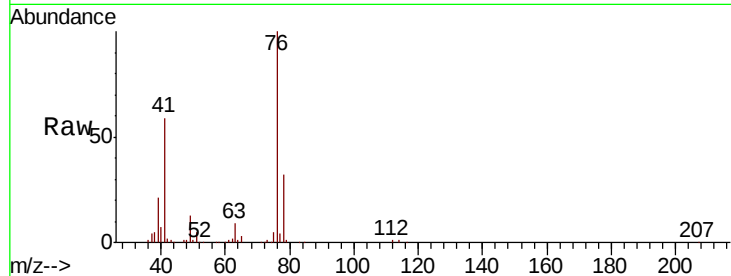
#57
 1,3-Dichloropropane
 Concen: 22.103 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1108SBSD01

Tot Ion: 76 Resp: 70407
 Ion Ratio Lower Upper
 76 100
 78 33.2 26.0 39.0

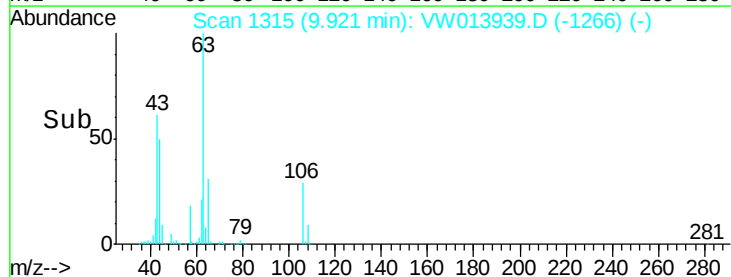
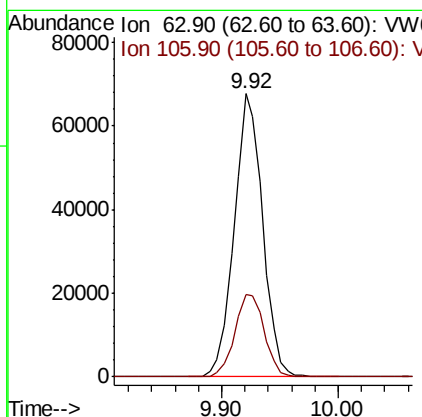
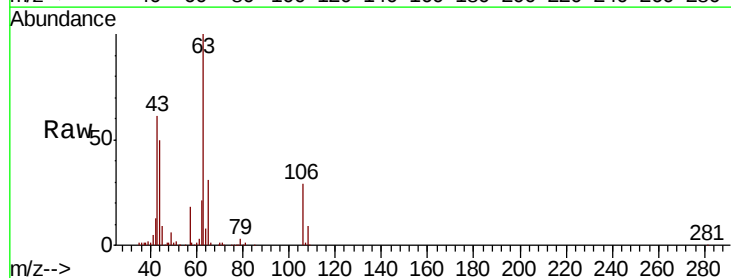
Manual Integrations
 APPROVED

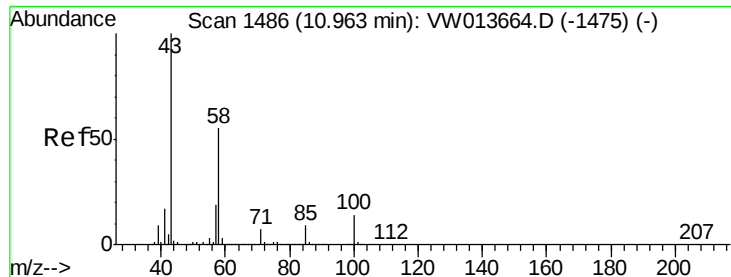
MMDadoda
 11/12/2019 12:58:30 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 107.199 ug/l
 RT: 9.92 min Scan# 1315
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Tgt Ion: 63 Resp: 114581
 Ion Ratio Lower Upper
 63 100
 106 30.4 23.8 35.8





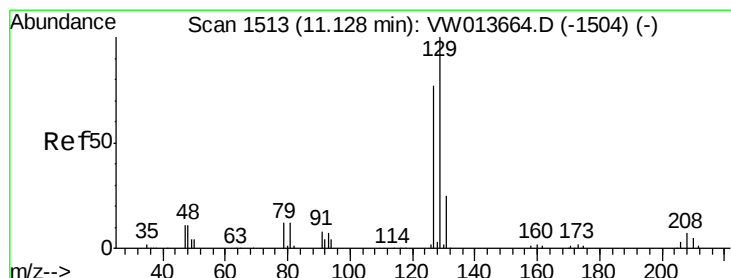
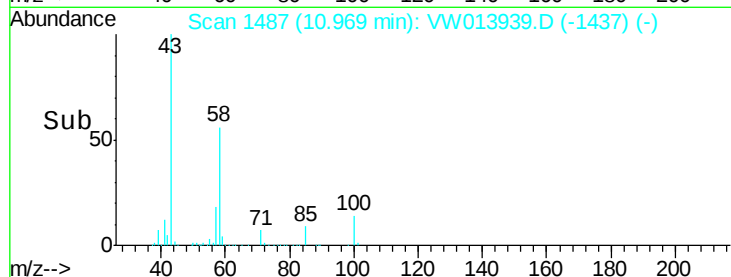
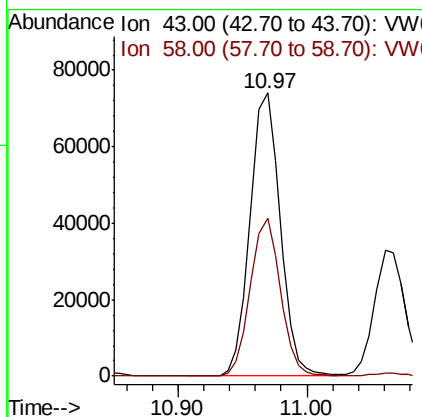
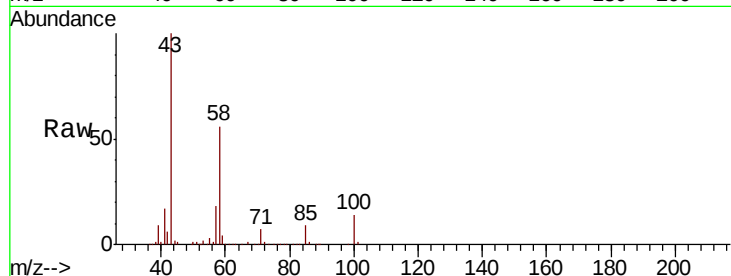
#59
2-Hexanone
Concen: 125.670 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. 0.01 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion: 43 Resp: 119756
Ion Ratio Lower Upper
43 100
58 55.9 27.9 83.7

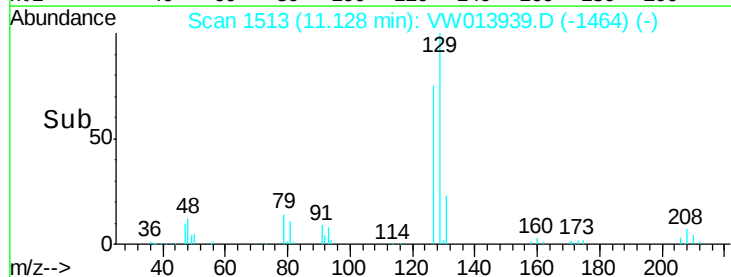
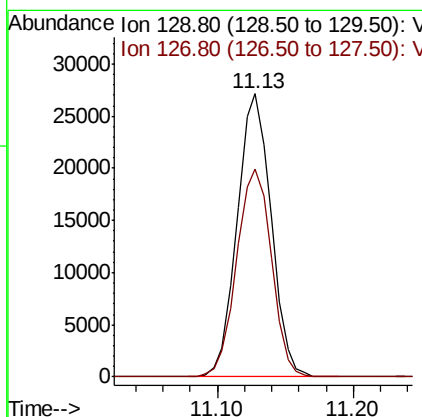
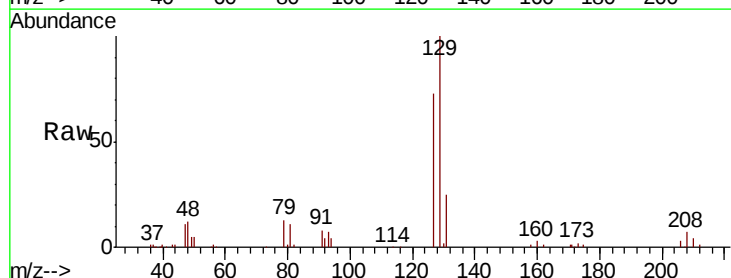
Manual Integrations
APPROVED

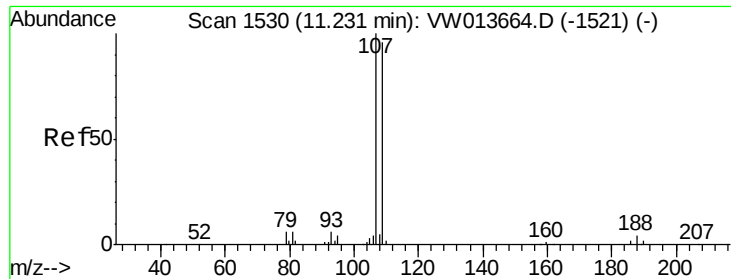
MMDadoda
11/12/2019 12:58:30 PM



#60
Dibromochloromethane
Concen: 21.476 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion: 129 Resp: 47333
Ion Ratio Lower Upper
129 100
127 75.5 38.9 116.7





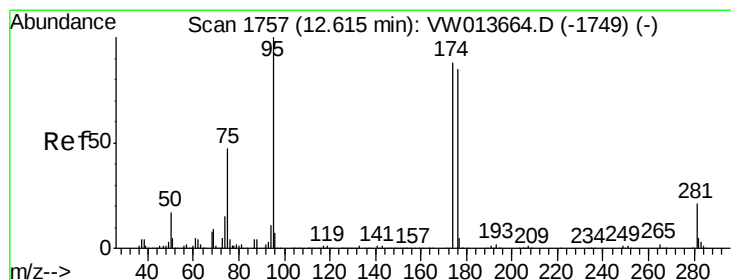
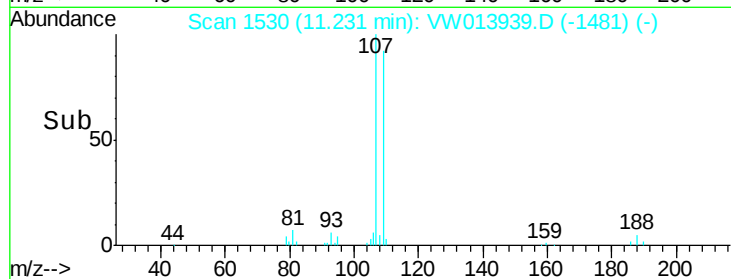
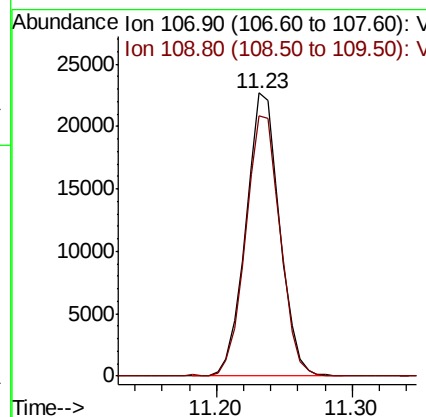
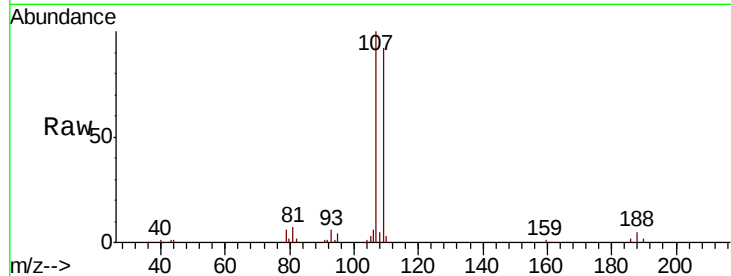
#61
 1,2-Dibromoethane
 Concen: 22.407 ug/l
 RT: 11.23 min Scan# 1530
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1108SBSD01

Tot Ion	Ratio	Lower	Upper
107	100		
109	94.1	75.7	113.5

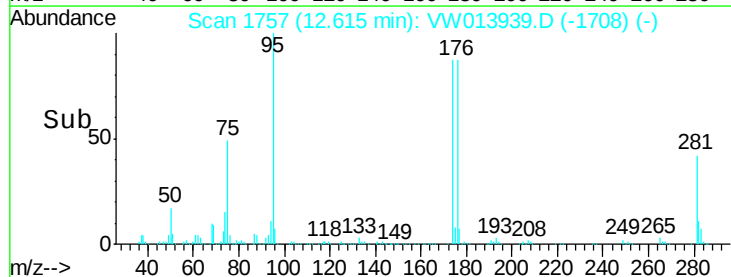
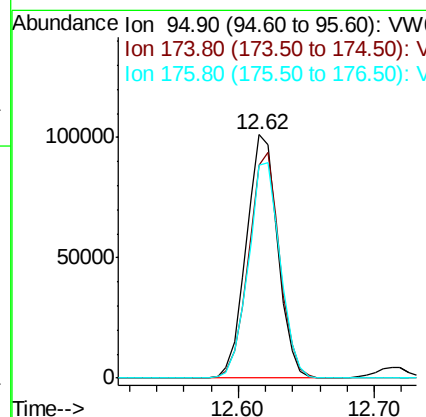
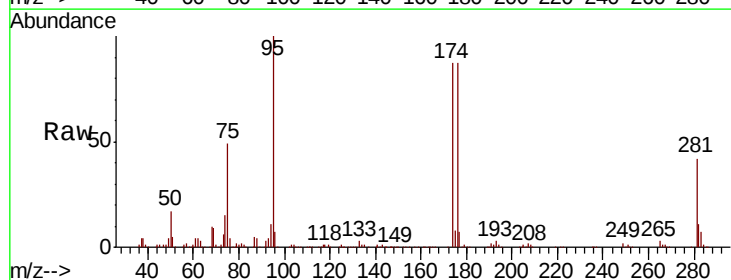
Manual Integrations
 APPROVED

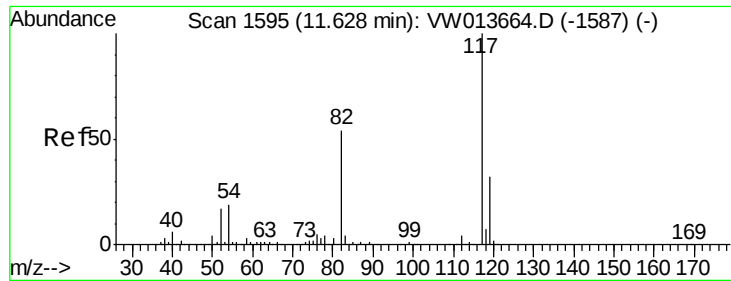
MMDadoda
 11/12/2019 12:58:30 PM



#62
 4-Bromofluorobenzene
 Concen: 52.342 ug/l
 RT: 12.62 min Scan# 1757
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.2	0.0	183.6
176	89.6	0.0	178.0





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 11.63 min Scan# 1596

Delta R.T. 0.01 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

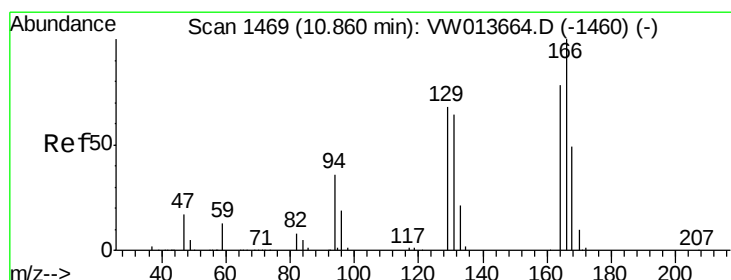
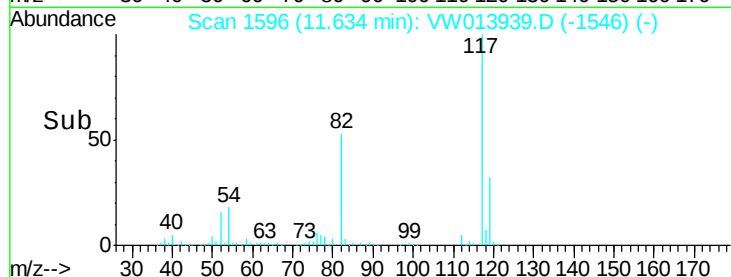
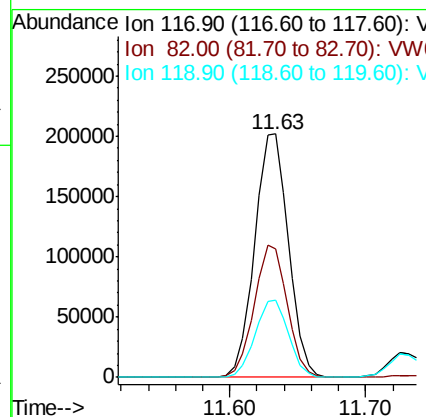
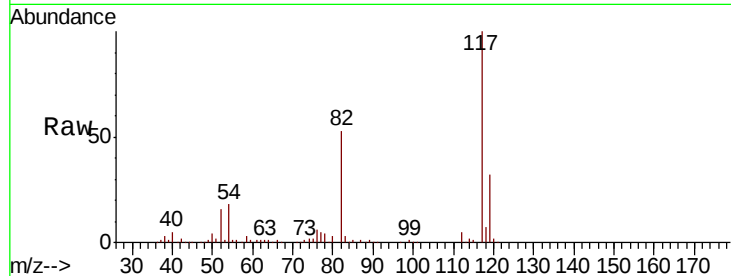
ClientSampleId :

VW1108SBS01

Tot Ion:	117	Resp:	352034
Ion Ratio	Lower	Upper	
117	100		
82	52.7	43.6	65.4
119	31.8	25.4	38.2

Manual Integrations
APPROVED

MMDadoda
11/12/2019 12:58:30 PM



#64

Tetrachloroethene

Concen: 21.045 ug/l

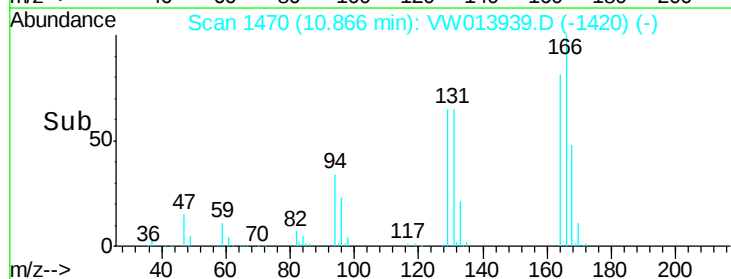
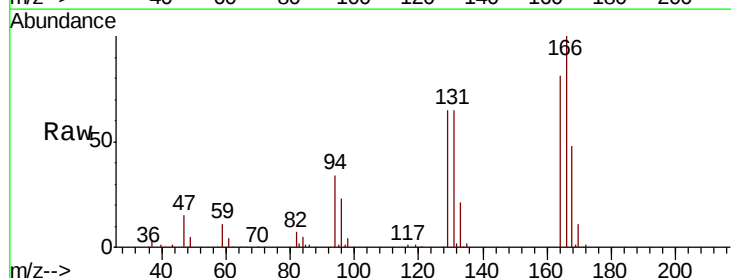
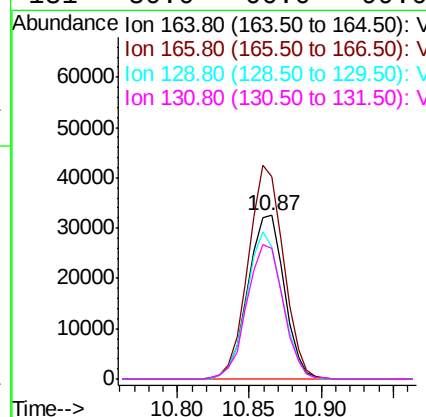
RT: 10.87 min Scan# 1470

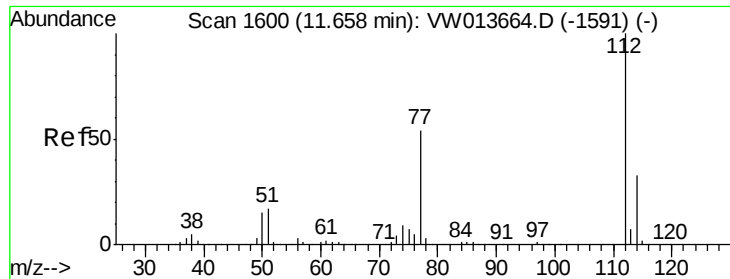
Delta R.T. 0.01 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Tgt Ion:	164	Resp:	56604
Ion Ratio	Lower	Upper	
164	100		
166	123.8	103.2	154.8
129	80.3	70.6	105.8
131	80.0	66.0	99.0





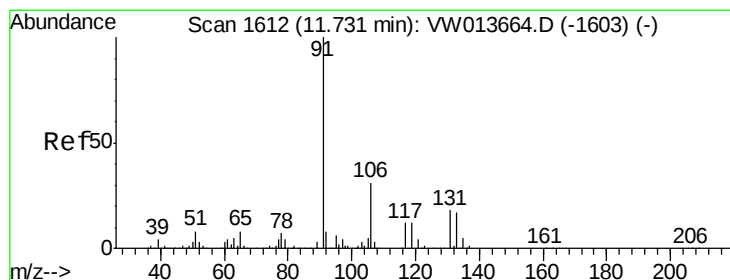
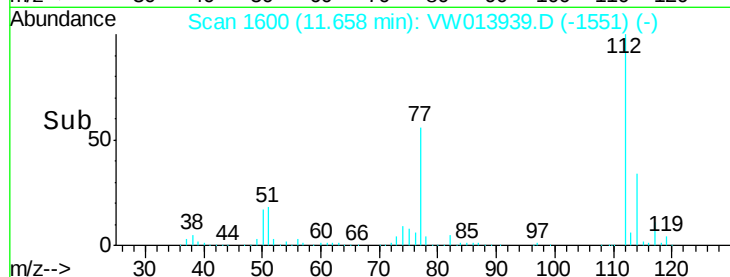
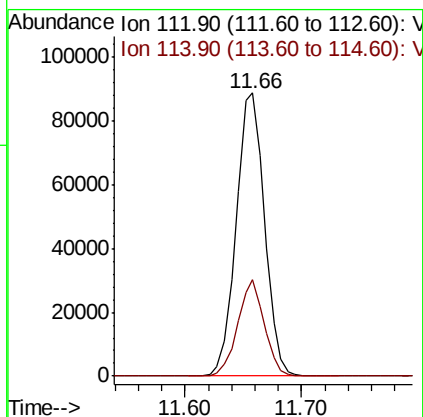
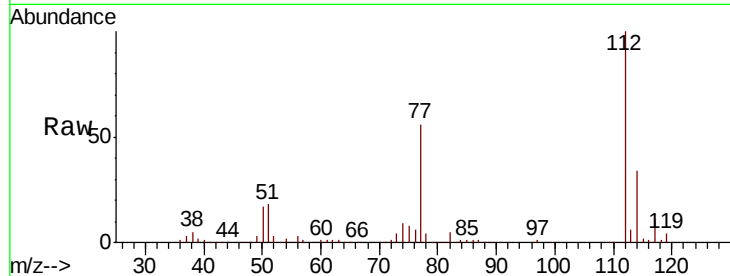
#65
Chlorobenzene
Concen: 20.798 ug/l
RT: 11.66 min Scan# 1600
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion:112 Resp: 150451
Ion Ratio Lower Upper
112 100
114 33.9 26.2 39.4

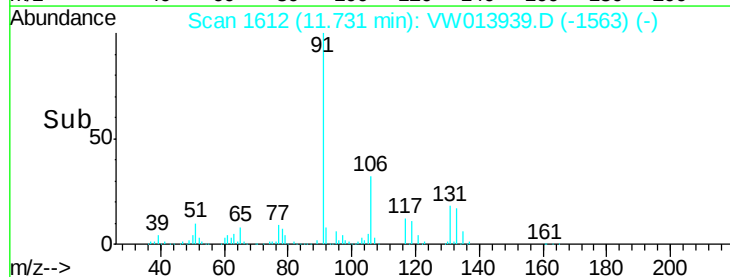
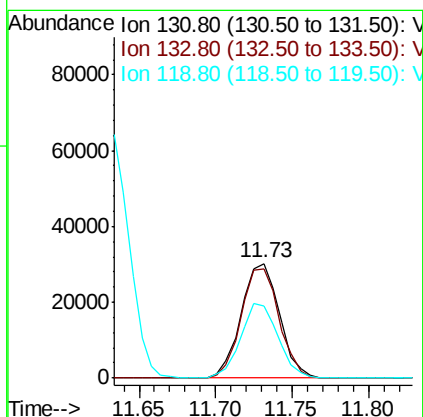
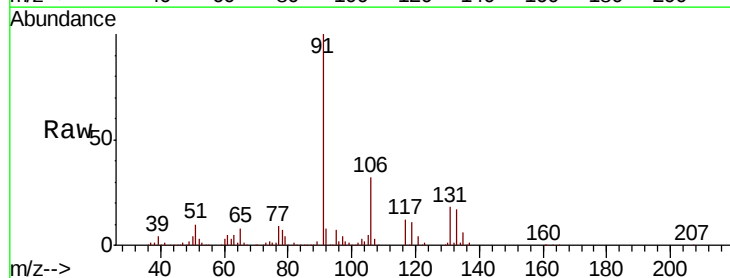
Manual Integrations
APPROVED

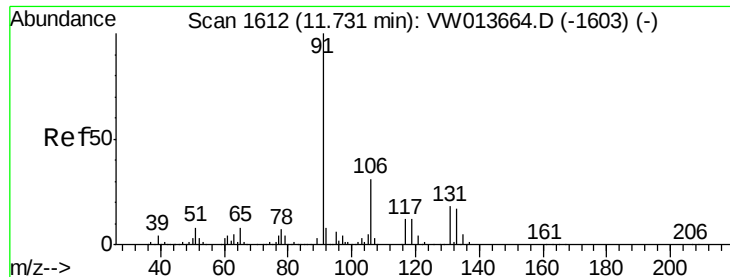
MMDadoda
11/12/2019 12:58:30 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.834 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion:131 Resp: 52598
Ion Ratio Lower Upper
131 100
133 95.6 47.4 142.3
119 63.8 33.1 99.2





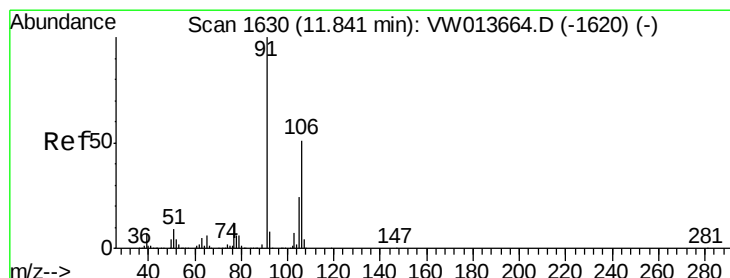
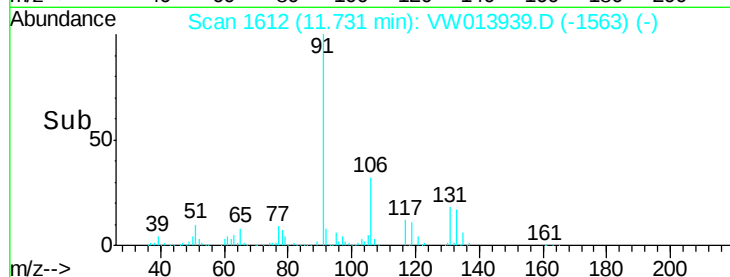
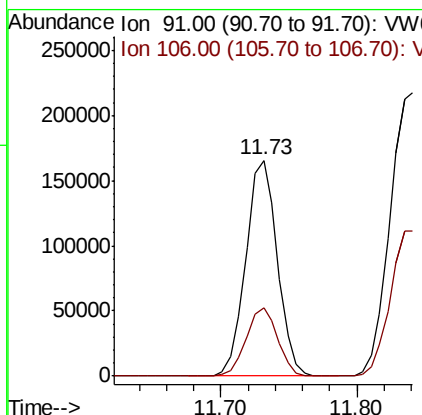
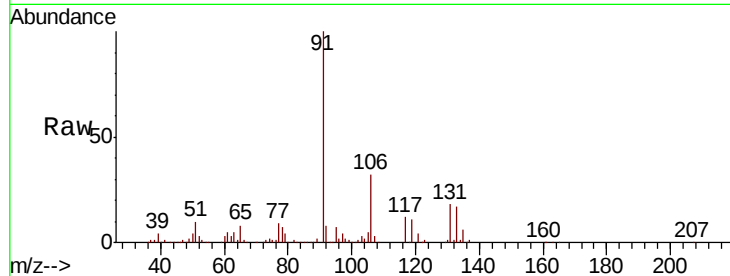
#67
Ethyl Benzene
Concen: 20.596 ug/l
RT: 11.73 min Scan# 1612
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion: 91 Resp: 268658
Ion Ratio Lower Upper
91 100
106 31.7 25.0 37.6

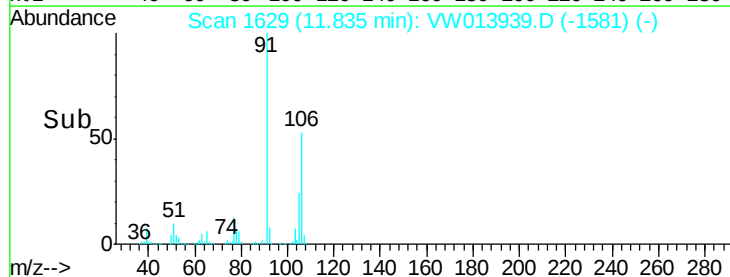
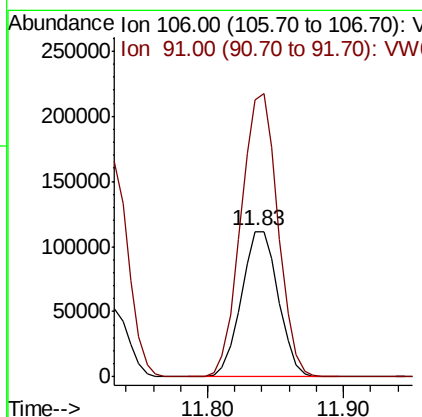
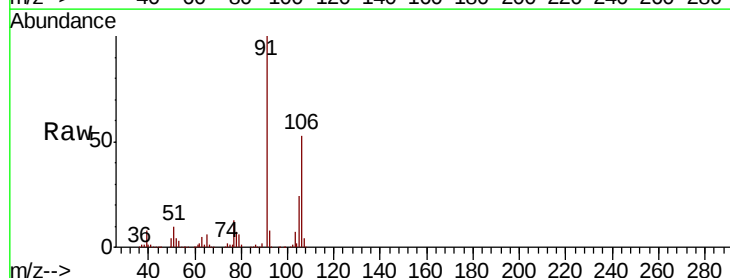
Manual Integrations
APPROVED

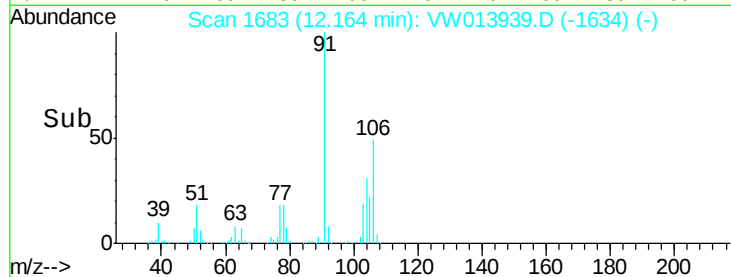
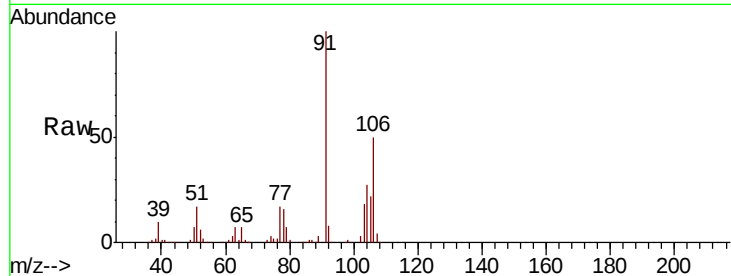
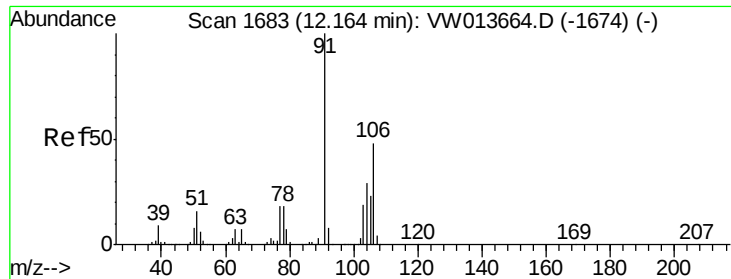
MMDadoda
11/12/2019 12:58:30 PM



#68
m/p-Xylenes
Concen: 42.119 ug/l
RT: 11.83 min Scan# 1629
Delta R.T. -0.01 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion: 106 Resp: 212265
Ion Ratio Lower Upper
106 100
91 194.6 159.2 238.8





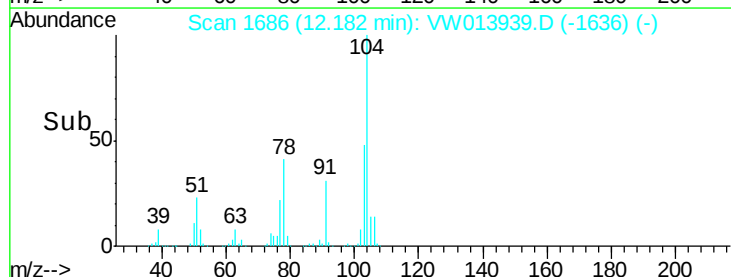
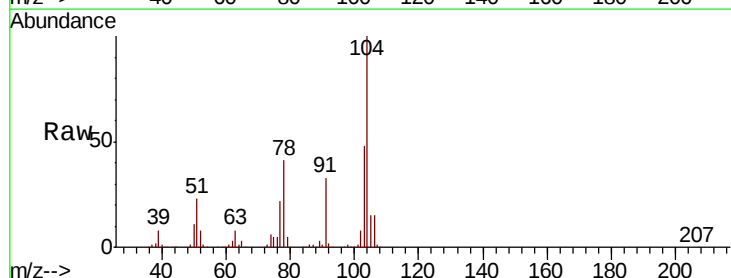
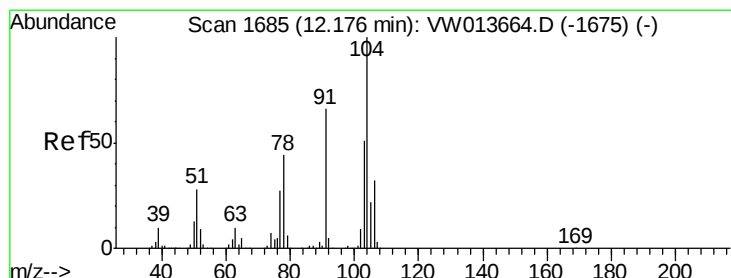
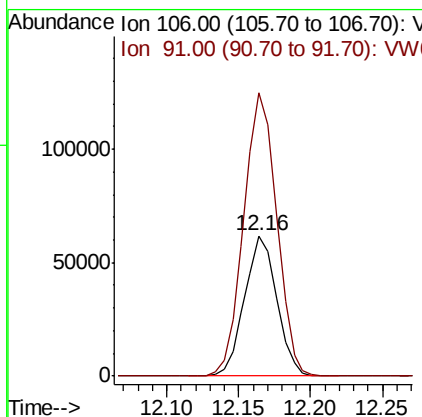
#69
o-Xylene
Concen: 20.668 ug/l
RT: 12.16 min Scan# 1683
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tot Ion:106 Resp: 95742
Ion Ratio Lower Upper
106 100
91 207.4 104.9 314.7

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

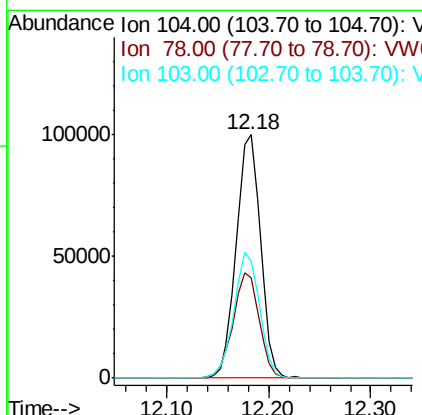
Manual Integrations
APPROVED

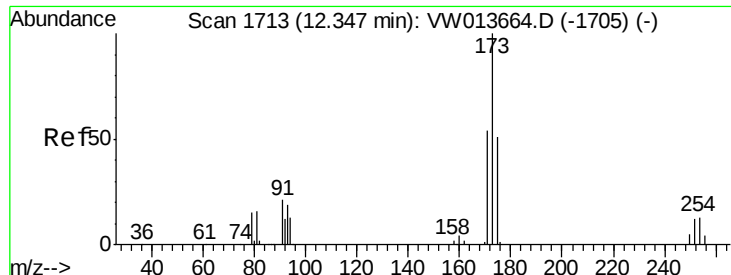
MMDadoda
11/12/2019 12:58:30 PM



#70
Styrene
Concen: 20.649 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. 0.01 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion:104 Resp: 164341
Ion Ratio Lower Upper
104 100
78 46.3 37.1 55.7
103 54.3 43.6 65.4





#71

Bromoform

Concen: 22.420 ug/l

RT: 12.35 min Scan# 1713

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

ClientSampleId :

VW1108SBS01

Tot Ion:173 Resp: 29704

Ion Ratio Lower Upper

173 100

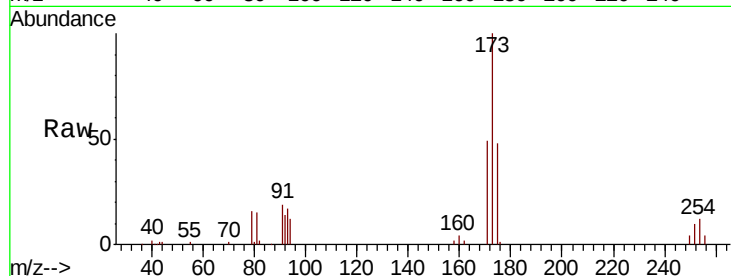
175 48.0 25.2 75.6

254 0.0 0.1 0.1#

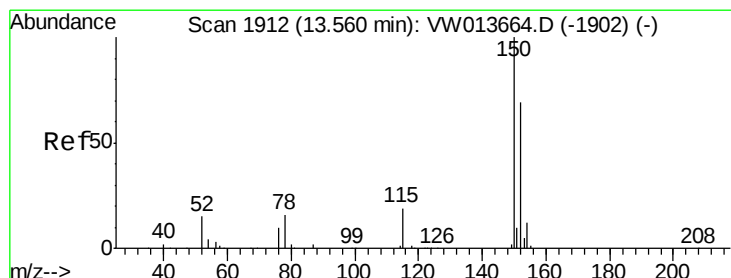
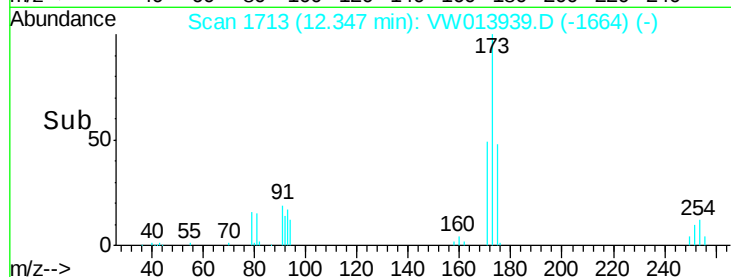
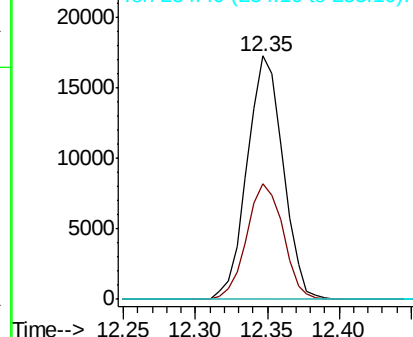
Manual Integrations
APPROVED

MMDadoda

11/12/2019 12:58:30 PM



Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.56 min Scan# 1912

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

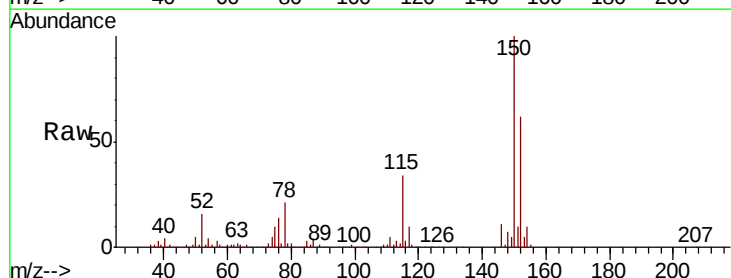
Tgt Ion:152 Resp: 184926

Ion Ratio Lower Upper

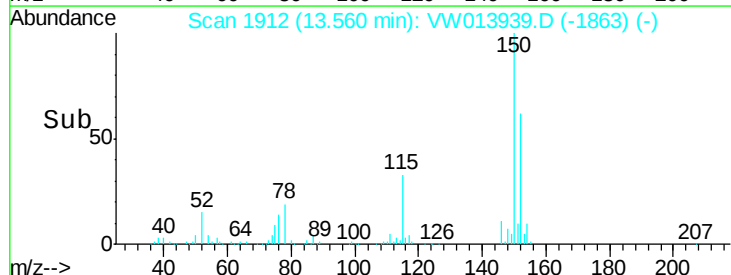
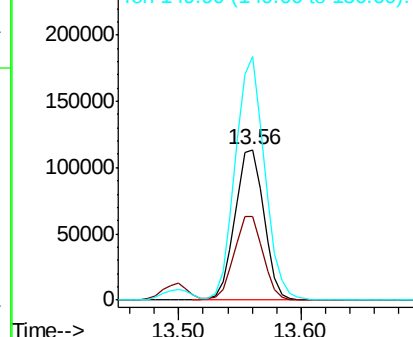
152 100

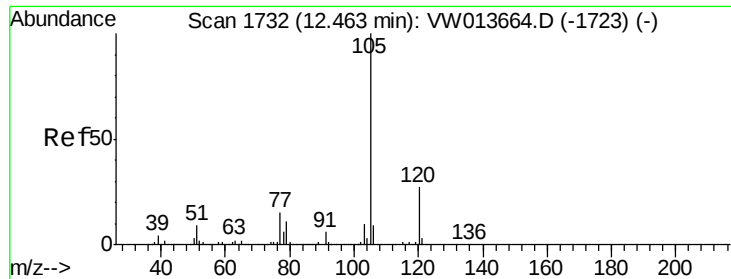
115 55.3 27.4 82.2

150 164.1 0.0 345.4



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





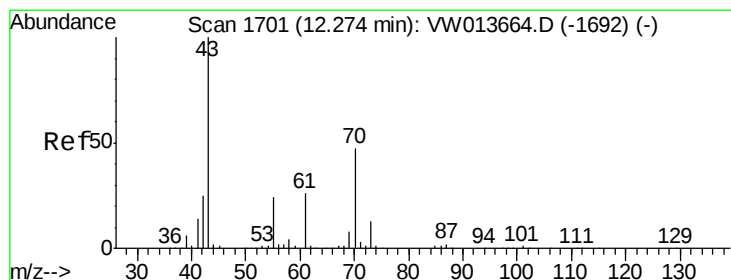
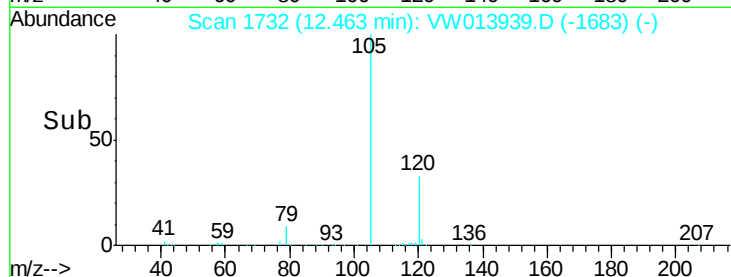
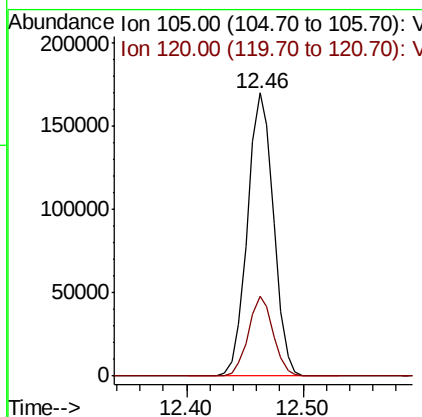
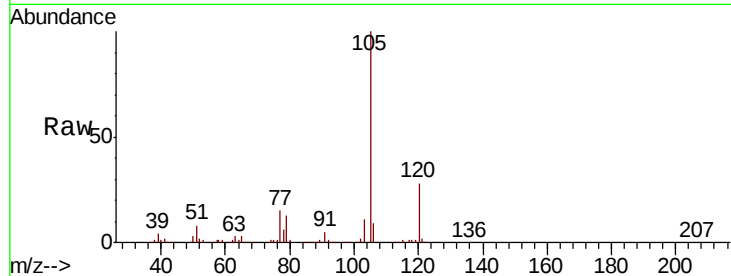
#73
Isopropylbenzene
Concen: 20.090 ug/l
RT: 12.46 min Scan# 1732
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion	Ratio	Lower	Upper
105	100		
120	26.8	13.5	40.4

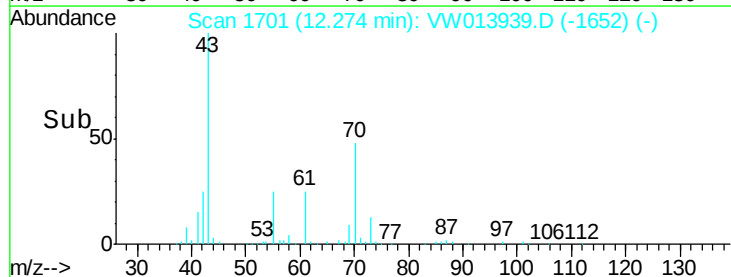
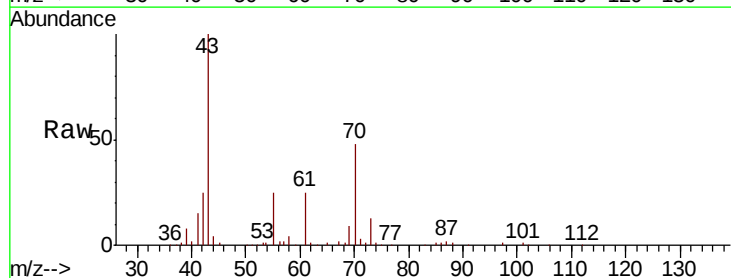
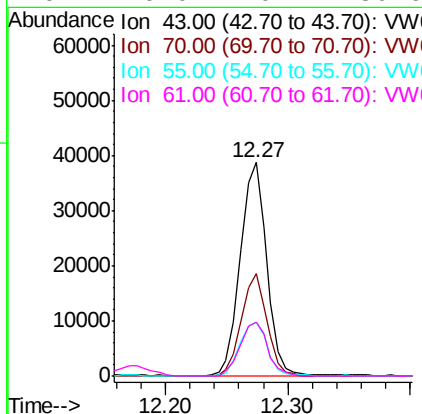
Manual Integrations
APPROVED

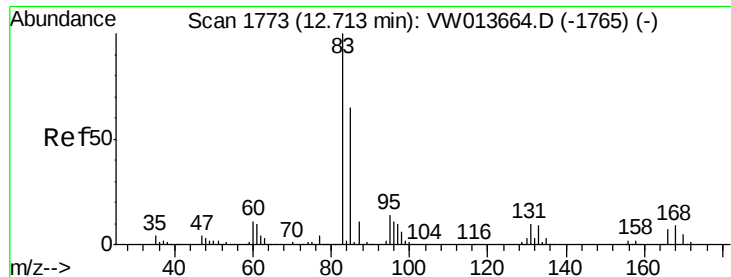
MMDadoda
11/12/2019 12:58:30 PM



#74
N-ethyl acetate
Concen: 22.599 ug/l
RT: 12.27 min Scan# 1701
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
43	100		
70	46.7	36.6	55.0
55	26.5	20.3	30.5
61	26.0	20.4	30.6





#75

1,1,2,2-Tetrachloroethane

Concen: 22.618 ug/l

RT: 12.71 min Scan# 1773

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

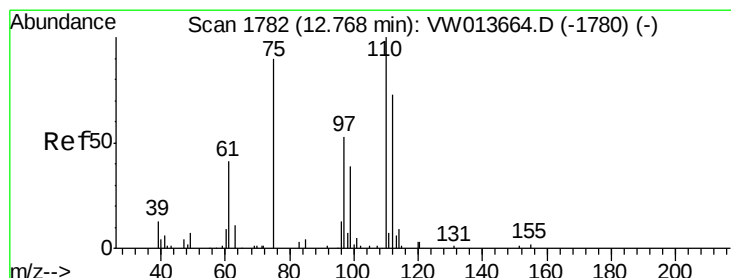
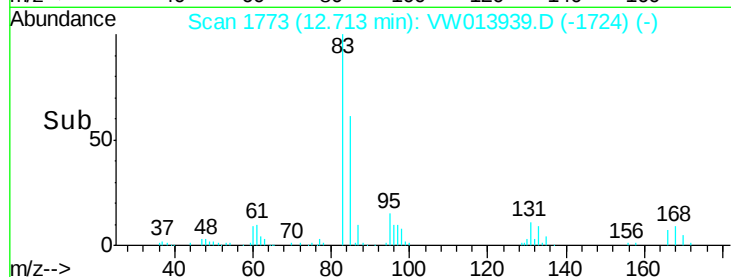
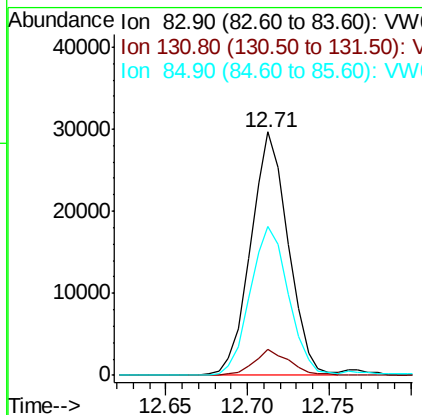
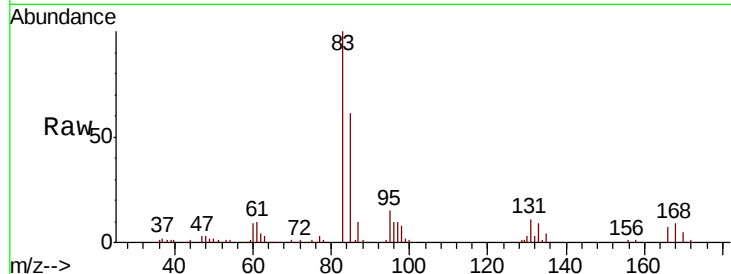
ClientSampleId :

VW1108SBS01

Tot Ion:	83	Resp:	47400
Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.7	17.1
85	62.8	32.5	97.4

Manual Integrations
APPROVED

MMDadoda
11/12/2019 12:58:30 PM



#76

1,2,3-Trichloropropane

Concen: 23.064 ug/l m

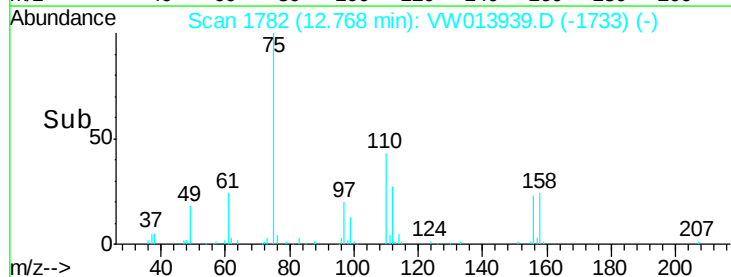
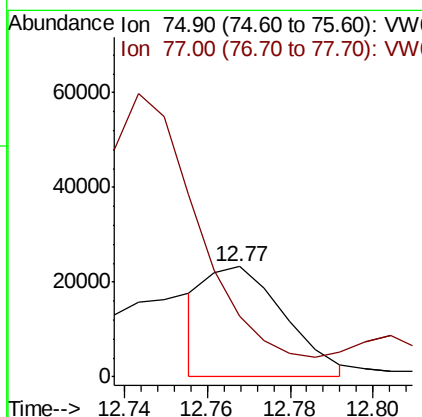
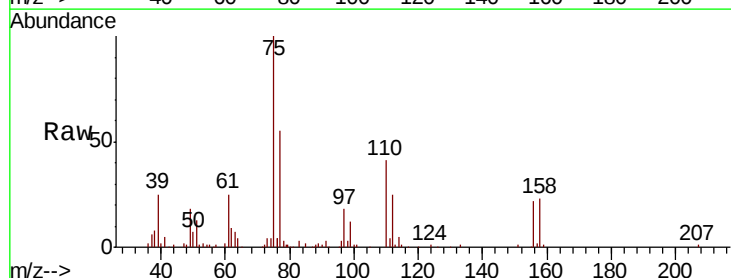
RT: 12.77 min Scan# 1782

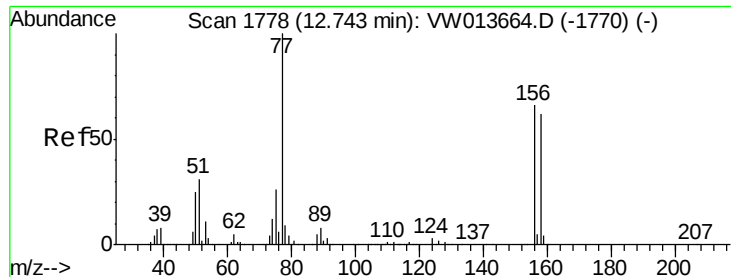
Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Tgt Ion:	75	Resp:	30630
Ion	Ratio	Lower	Upper
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 20.249 ug/l

RT: 12.74 min Scan# 1778

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

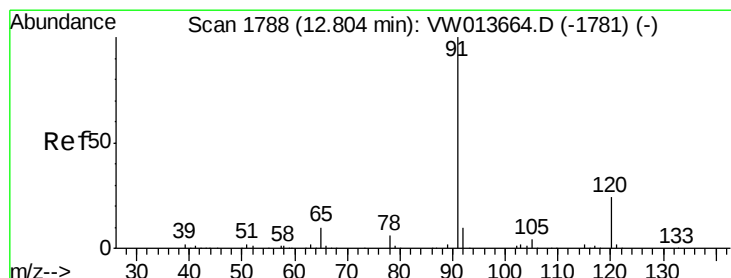
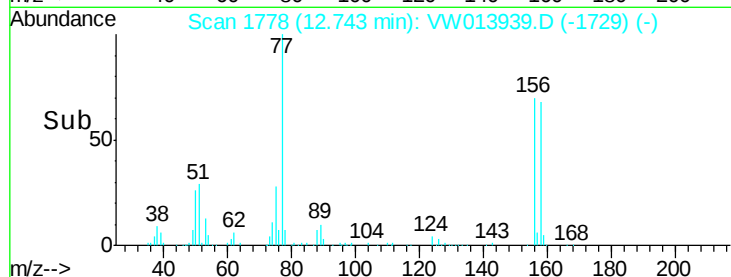
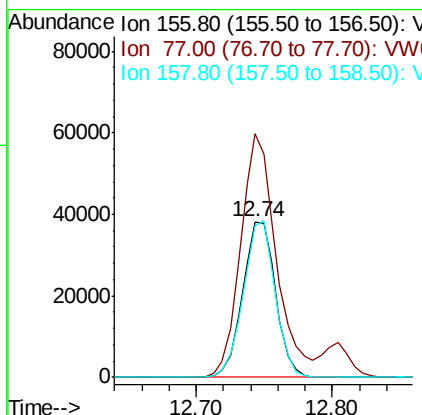
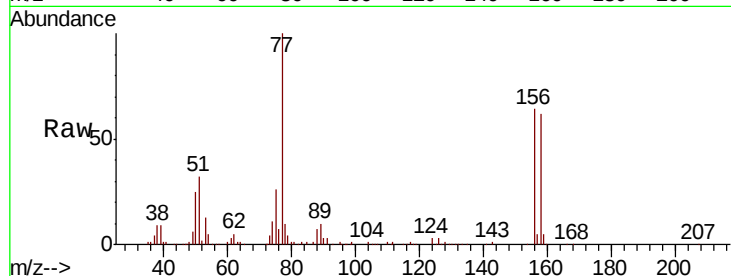
ClientSampleId :

VW1108SBS01

Tot Ion	Ion	Ratio	Lower	Upper
156	100			
77	169.2	82.9	248.7	
158	97.8	48.4	145.2	

Manual Integrations
APPROVED

MMDadoda
11/12/2019 12:58:30 PM



#78

n-propylbenzene

Concen: 20.513 ug/l

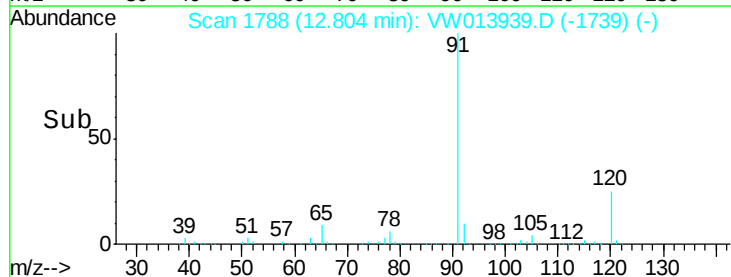
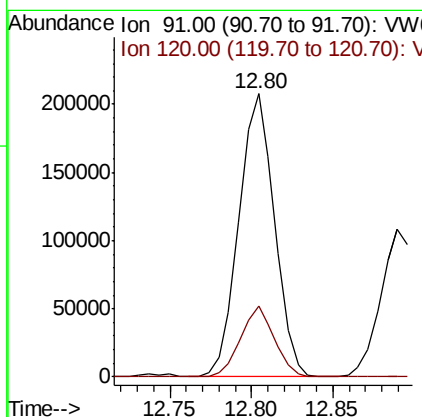
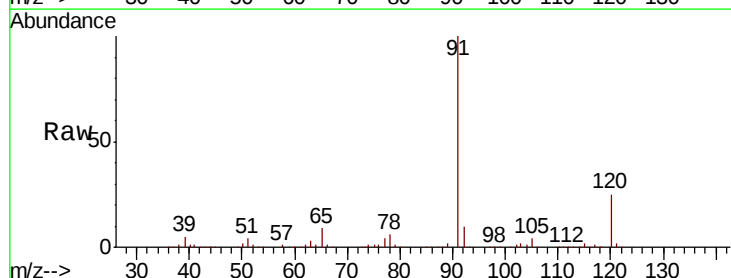
RT: 12.80 min Scan# 1788

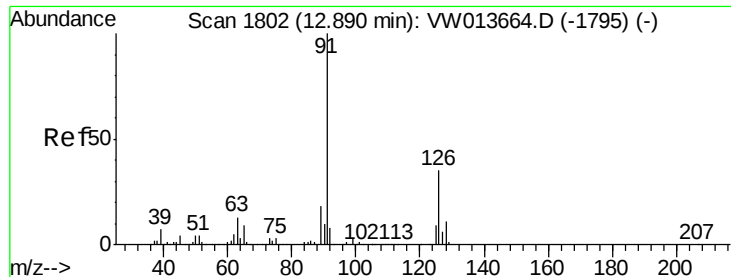
Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Tgt Ion	Ion	Ratio	Lower	Upper
91	100			
120	23.6	12.0	36.0	





#79

2-Chlorotoluene

Concen: 20.029 ug/l

RT: 12.89 min Scan# 1802

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

ClientSampleId :

VW1108SBS01

Tot Ion: 91 Resp: 173012

Ion Ratio Lower Upper

91 100

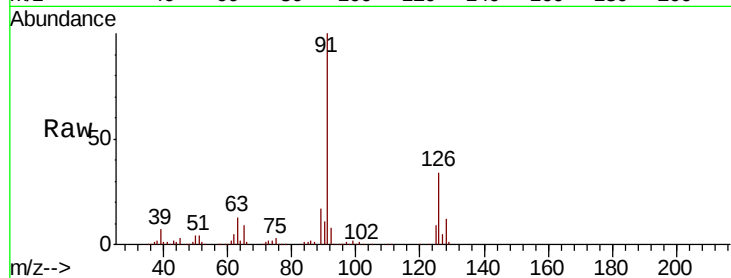
126 35.7 17.4 52.2

Manual Integrations

APPROVED

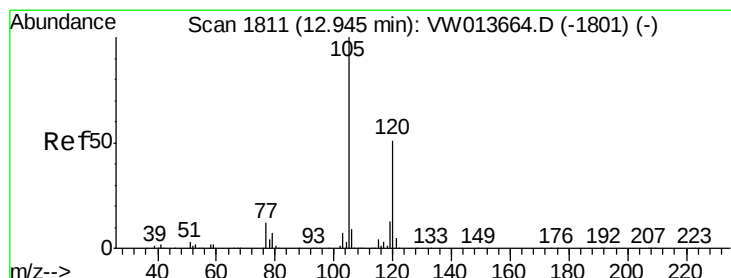
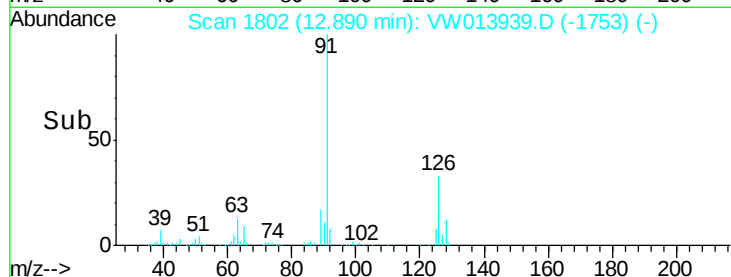
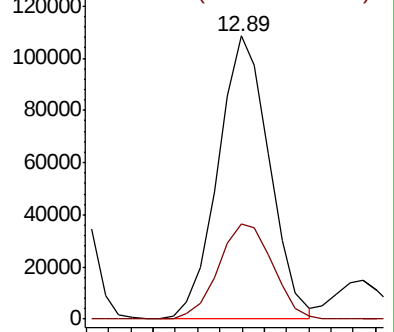
MMDadoda

11/12/2019 12:58:30 PM



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: 20.349 ug/l

RT: 12.94 min Scan# 1811

Delta R.T. -0.00 min

Lab File: VW013939.D

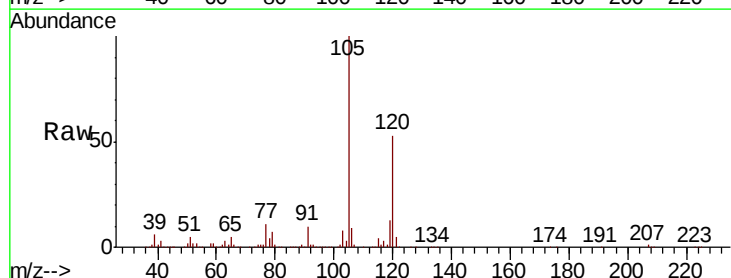
Acq: 08 Nov 2019 12:57

Tgt Ion:105 Resp: 228121

Ion Ratio Lower Upper

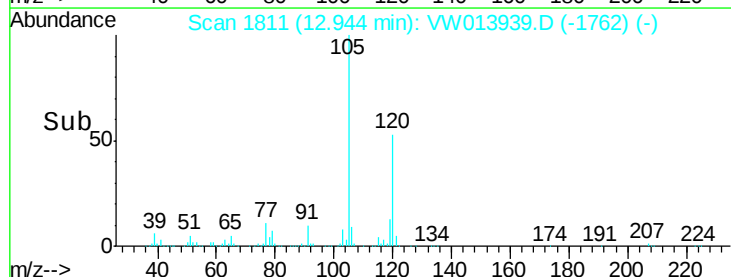
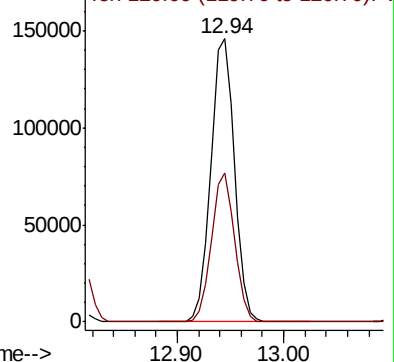
105 100

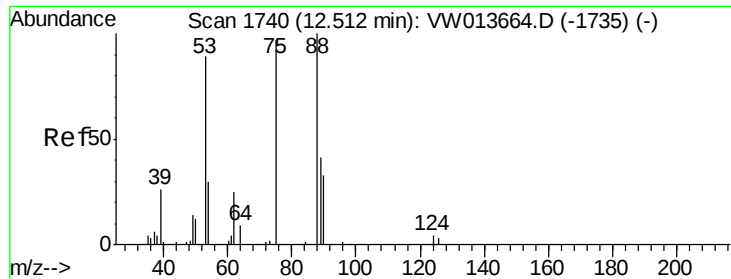
120 51.6 25.1 75.3



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





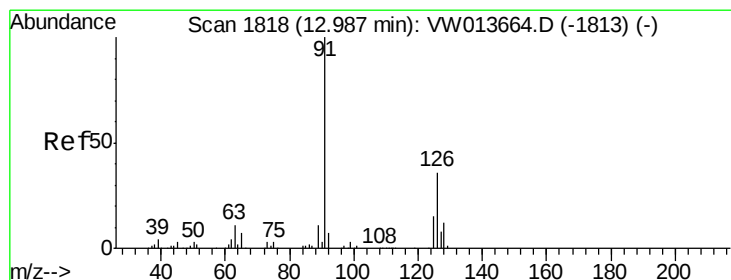
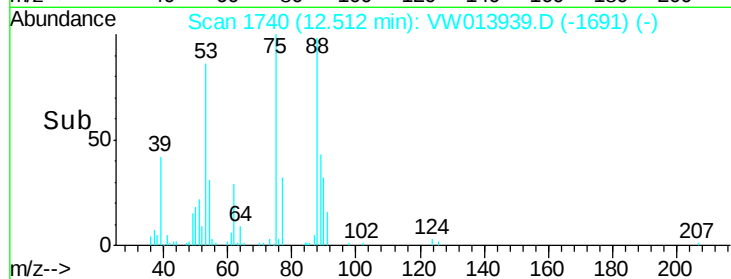
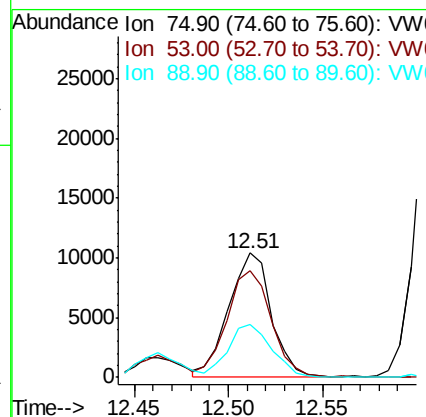
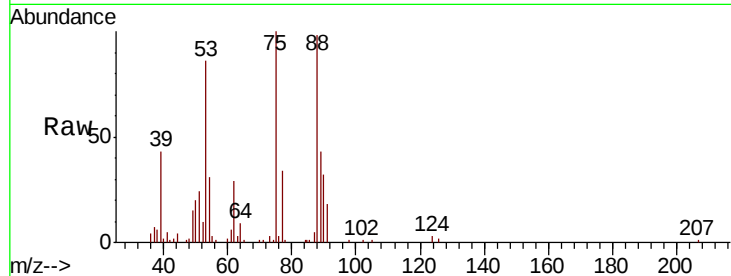
#81
trans-1,4-Dichloro-2-butene
Concen: 23.243 ug/l
RT: 12.51 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBSD01

Tot Ion	Ratio	Lower	Upper
75	100		
53	89.7	71.7	107.5
89	43.0	35.8	53.8

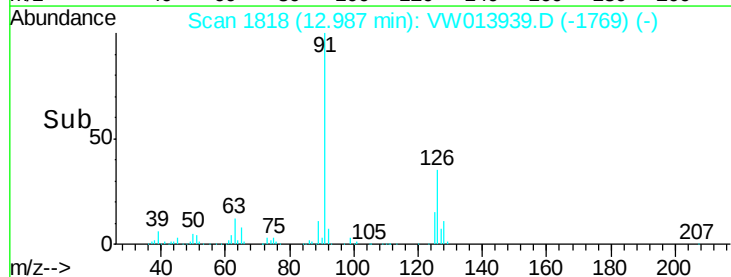
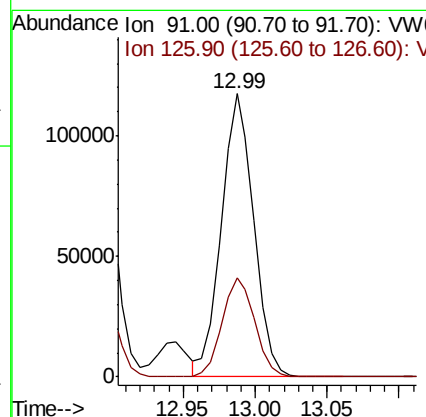
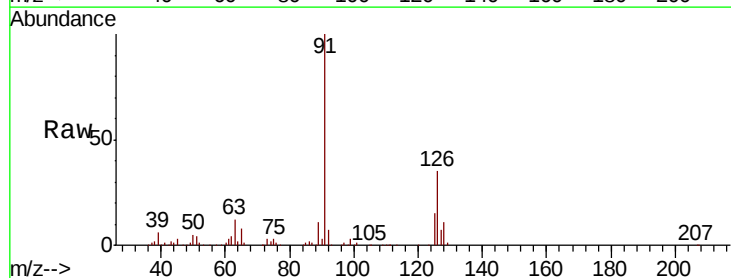
Manual Integrations
APPROVED

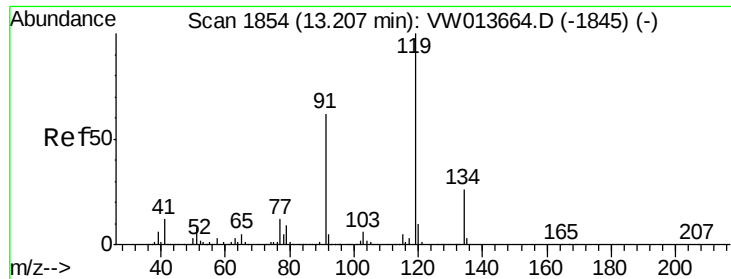
MMDadoda
11/12/2019 12:58:30 PM



#82
4-Chlorotoluene
Concen: 20.261 ug/l
RT: 12.99 min Scan# 1818
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.5	17.2	51.5





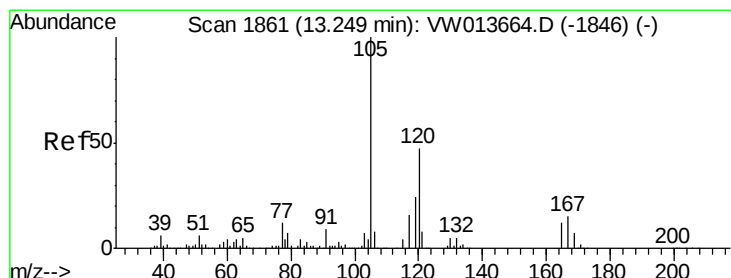
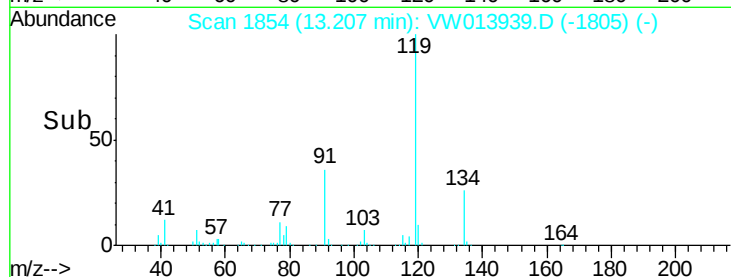
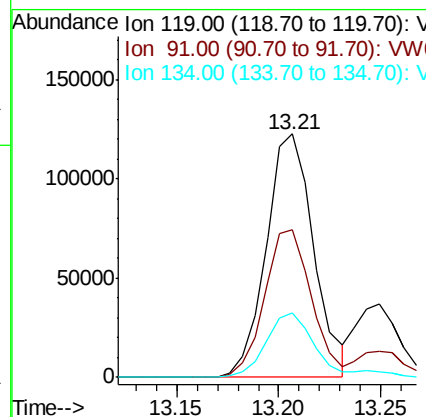
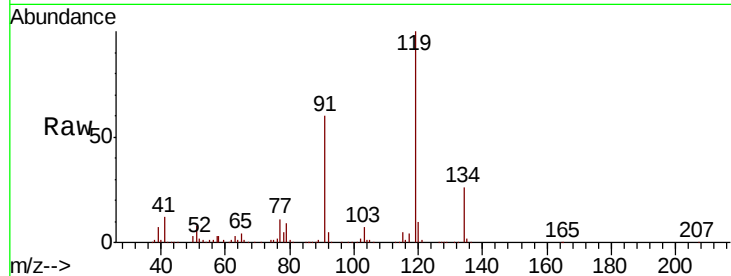
#83
tert-Butylbenzene
Concen: 20.019 ug/l
RT: 13.21 min Scan# 1854
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	199212		
91	59.9	30.4	91.3	
134	26.3	13.6	40.8	

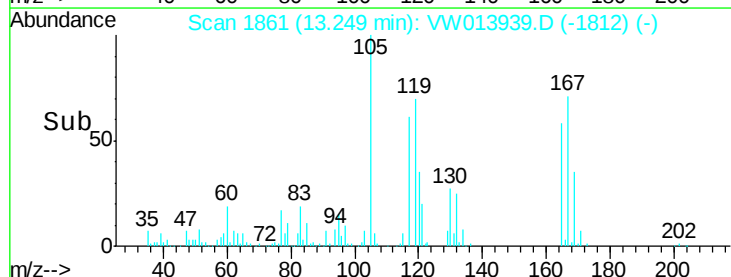
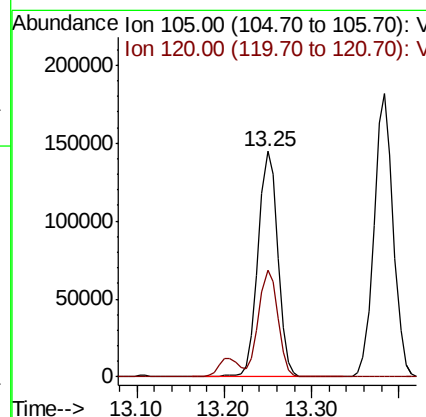
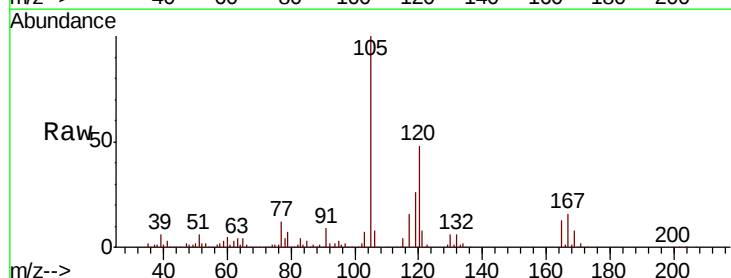
Manual Integrations
APPROVED

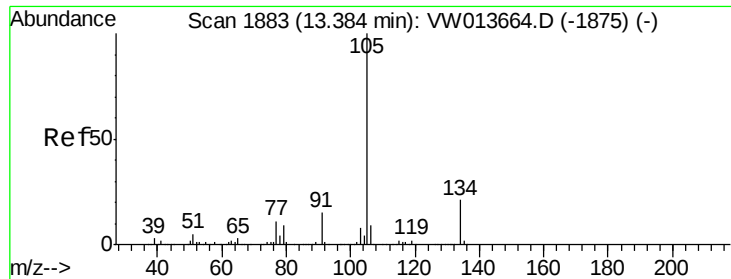
MMDadoda
11/12/2019 12:58:30 PM



#84
1,2,4-Trimethylbenzene
Concen: 20.434 ug/l
RT: 13.25 min Scan# 1861
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	225972		
120	46.2	23.5	70.5	





#85

sec-Butylbenzene

Concen: 20.362 ug/l

RT: 13.38 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Instrument :

MSVOA_W

ClientSampleId :

VW1108SBS01

Tot Ion:105 Resp: 277074

Ion Ratio Lower Upper

105 100

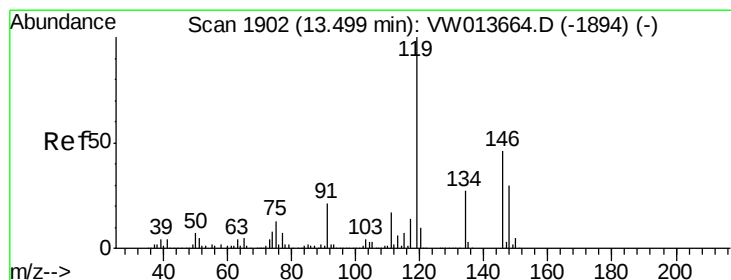
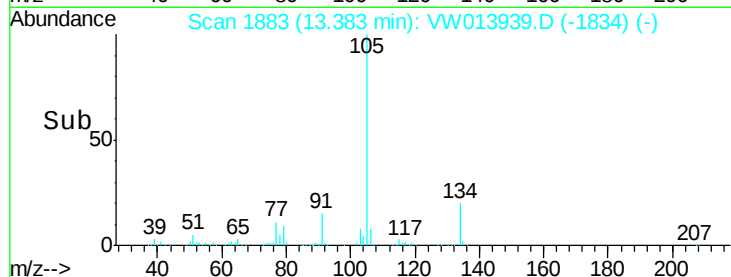
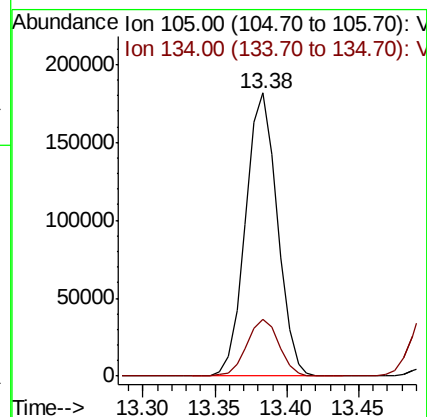
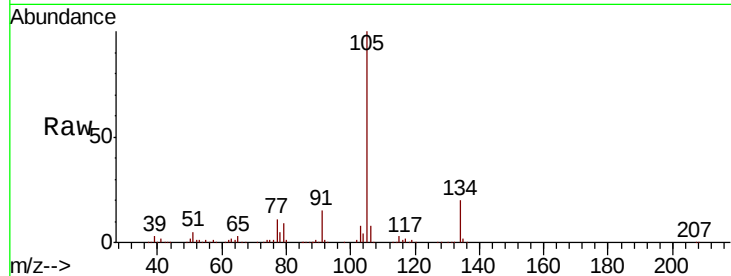
134 20.3 10.5 31.5

Manual Integrations

APPROVED

MMDadoda

11/12/2019 12:58:30 PM



#86

p-Isopropyltoluene

Concen: 20.591 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

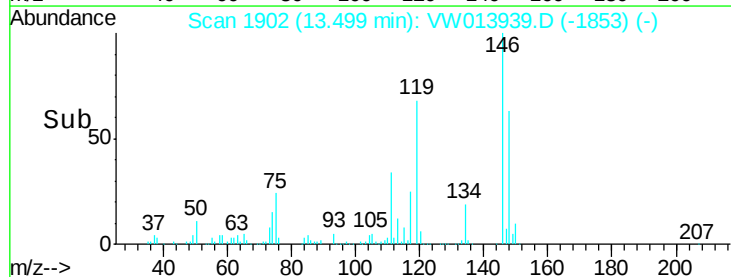
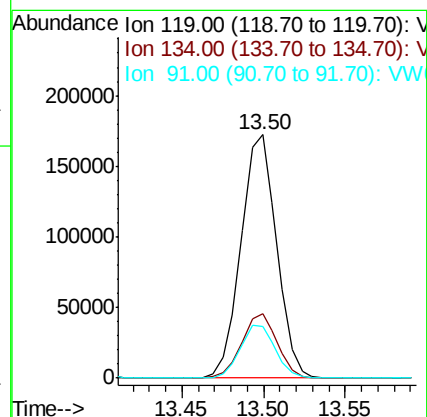
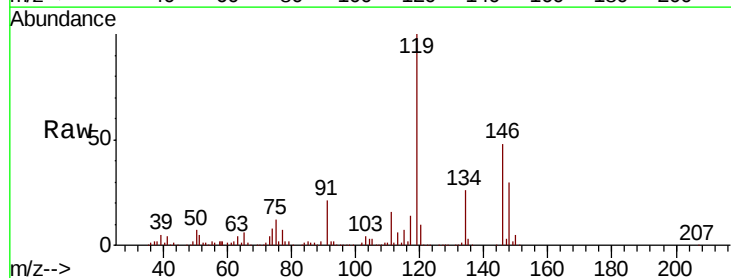
Tgt Ion:119 Resp: 261009

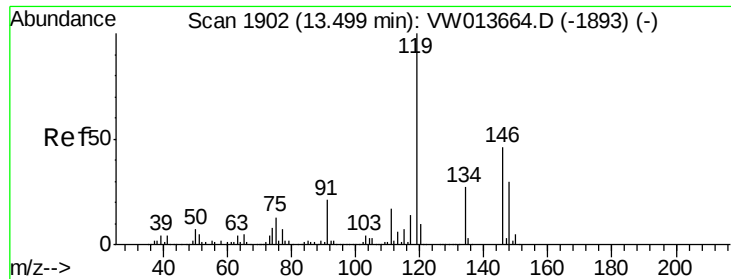
Ion Ratio Lower Upper

119 100

134 26.4 13.4 40.1

91 21.8 10.8 32.3





#87

1,3-Dichlorobenzene

Concen: 20.861 ug/l

RT: 13.50 min Scan# 1902

Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

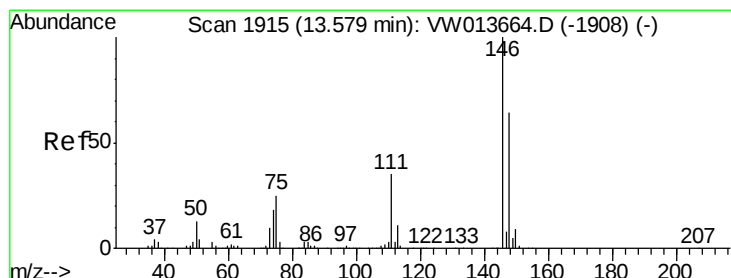
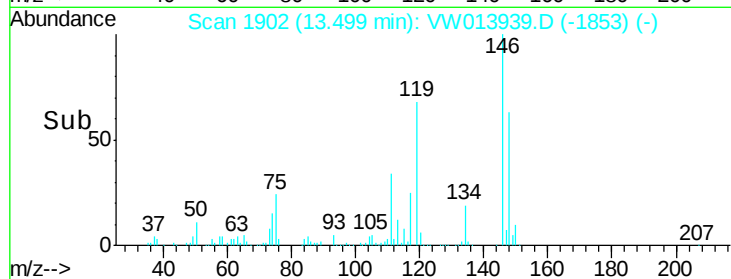
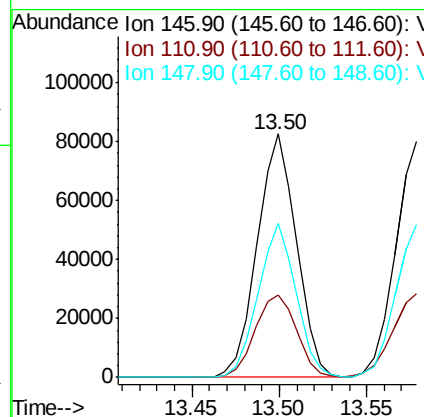
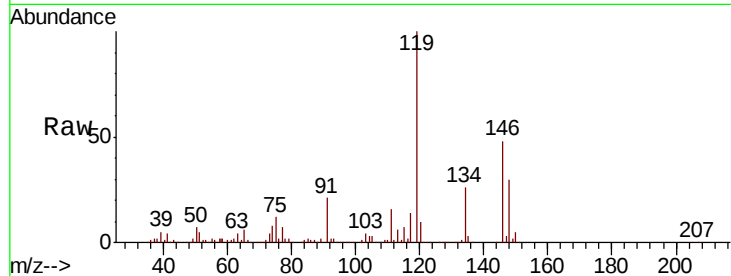
Instrument :
MSVOA_W

ClientSampleId :
VW1108SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.1	18.6	56.0
148	61.6	31.7	95.1

Manual Integrations
APPROVED

MMDadoda
11/12/2019 12:58:30 PM



#88

1,4-Dichlorobenzene

Concen: 20.470 ug/l

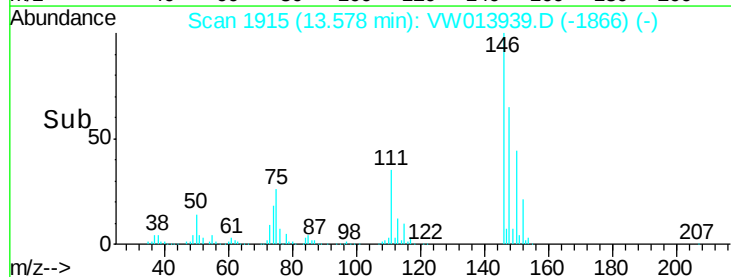
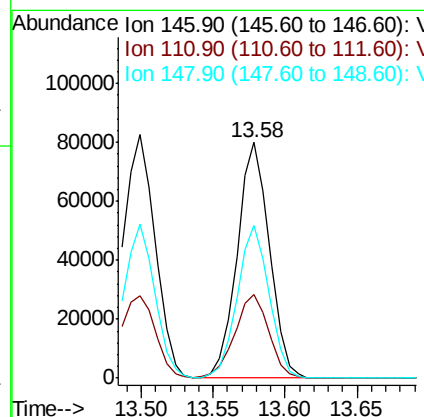
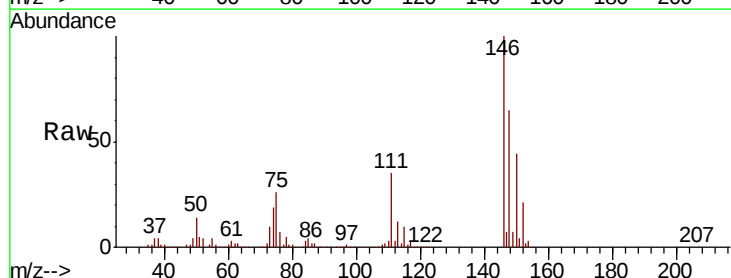
RT: 13.58 min Scan# 1915

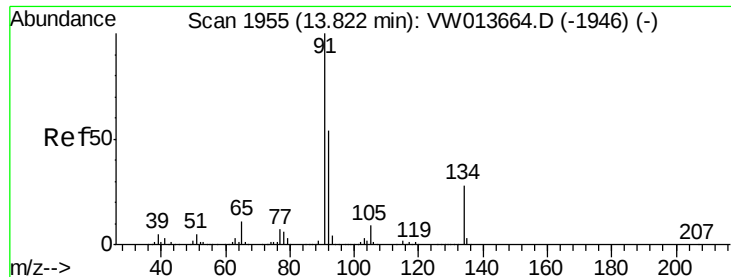
Delta R.T. -0.00 min

Lab File: VW013939.D

Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.1	54.3
148	63.9	32.0	96.2





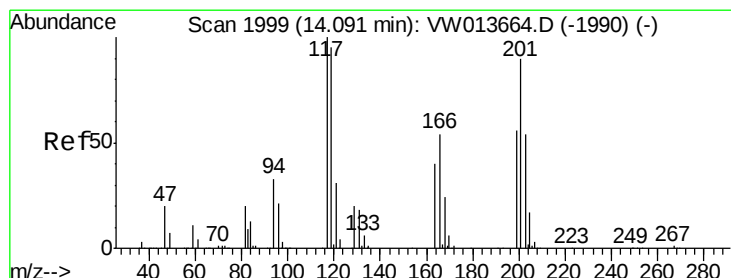
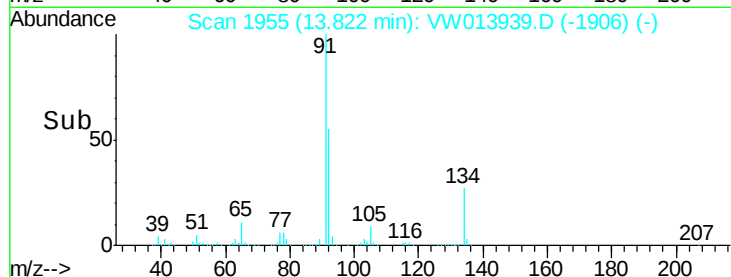
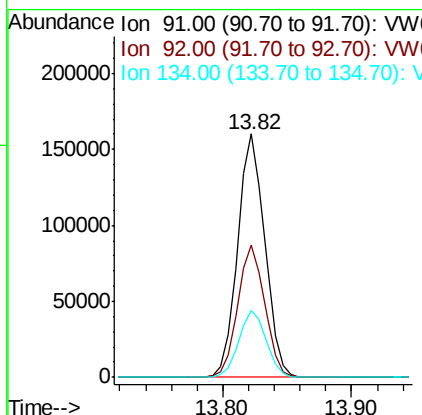
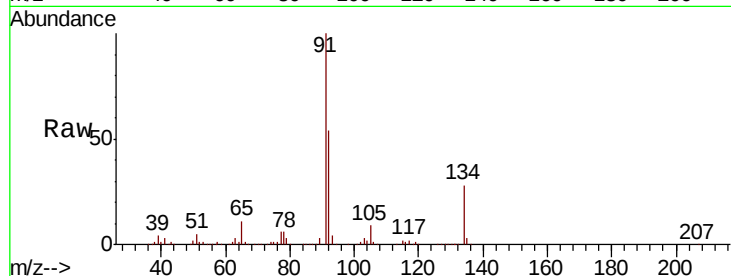
#89
n-Butylbenzene
Concen: 20.477 ug/l
RT: 13.82 min Scan# 1955
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	53.9	27.5	82.4
134	27.4	14.0	41.9

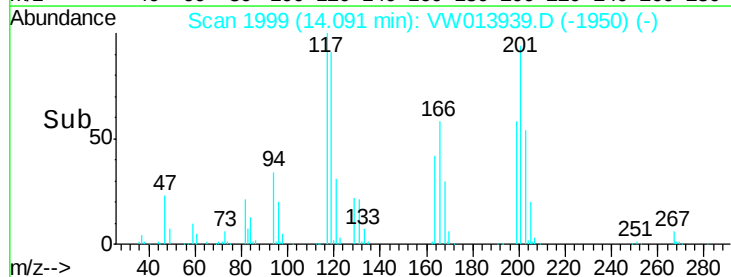
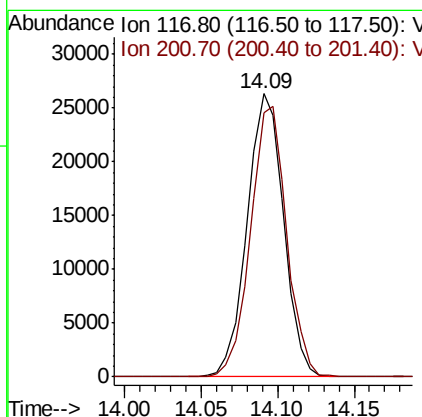
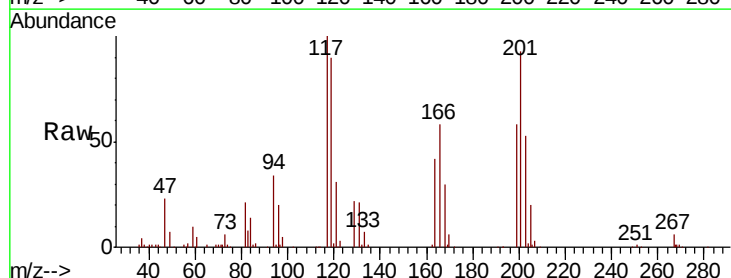
Manual Integrations
APPROVED

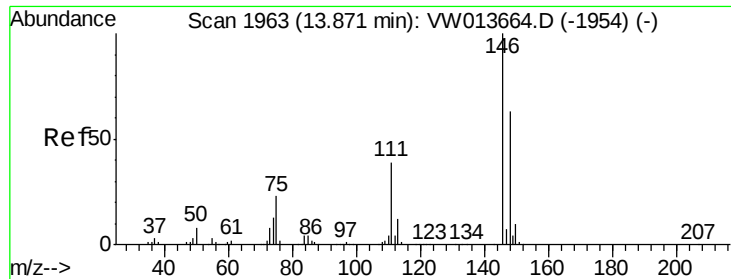
MMDadoda
11/12/2019 12:58:30 PM



#90
Hexachloroethane
Concen: 19.768 ug/l
RT: 14.09 min Scan# 1999
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
117	100		
201	94.5	46.1	138.2





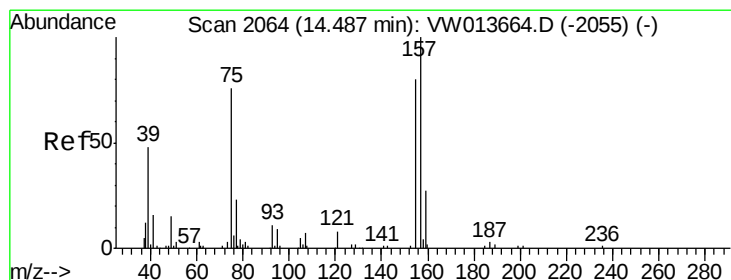
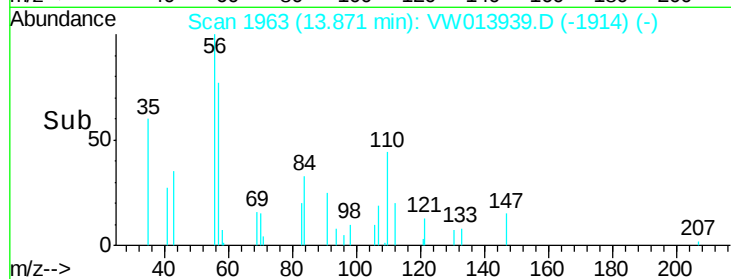
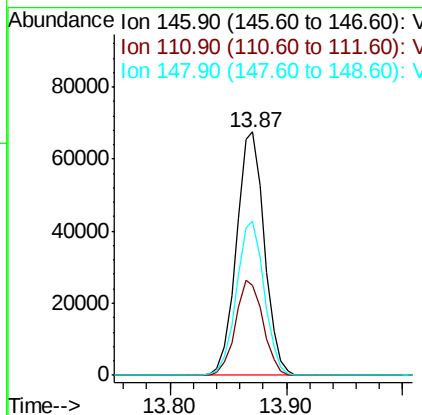
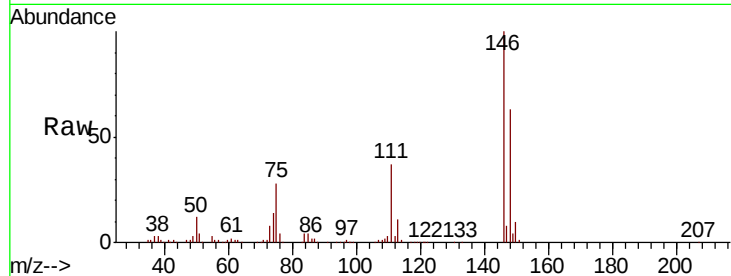
#91
 1,2-Dichlorobenzene
 Concen: 21.158 ug/l
 RT: 13.87 min Scan# 1963
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1108SBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.6	19.9	59.6
148	63.3	31.9	95.9

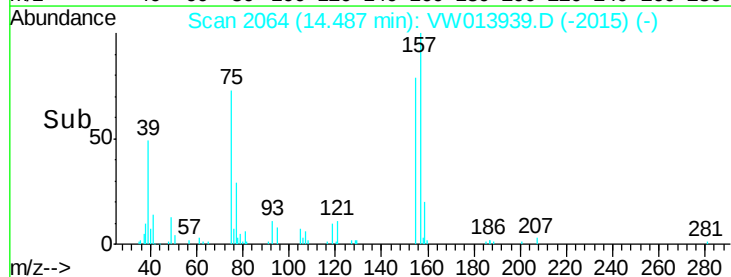
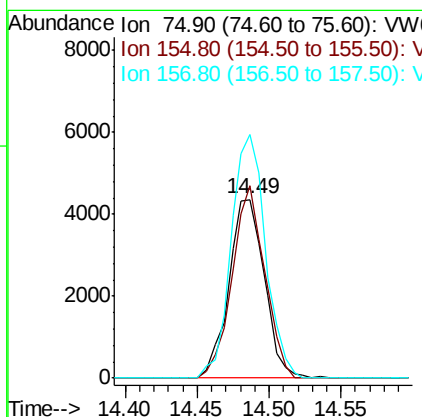
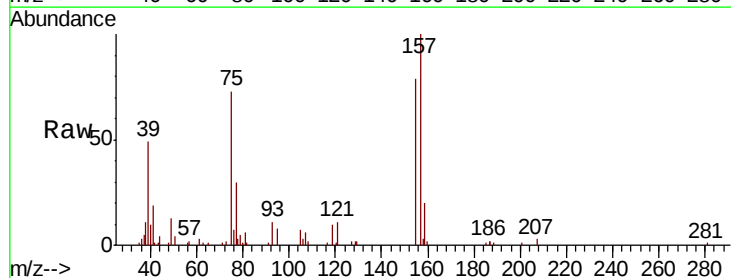
Manual Integrations
 APPROVED

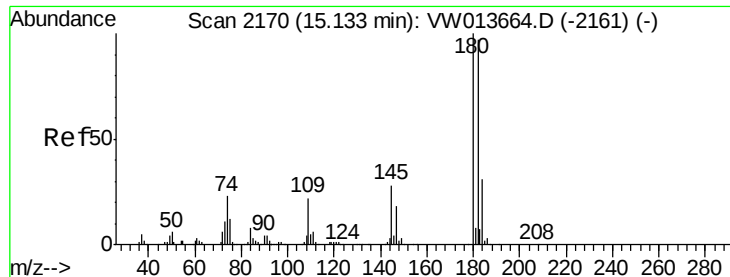
MMDadoda
 11/12/2019 12:58:30 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 23.796 ug/l
 RT: 14.49 min Scan# 2064
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
75	100		
155	98.4	51.9	155.7
157	131.2	64.8	194.3





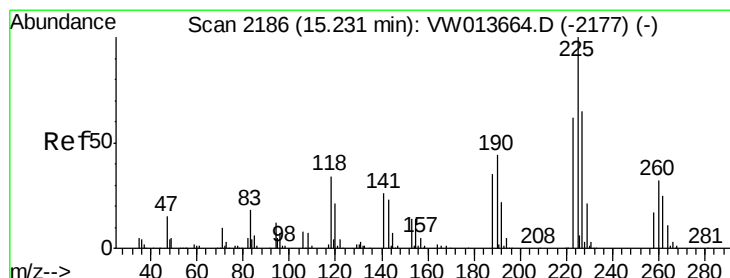
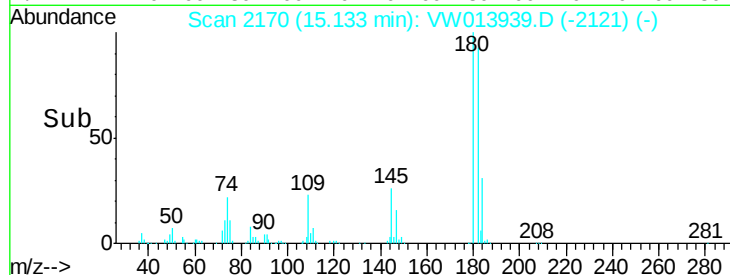
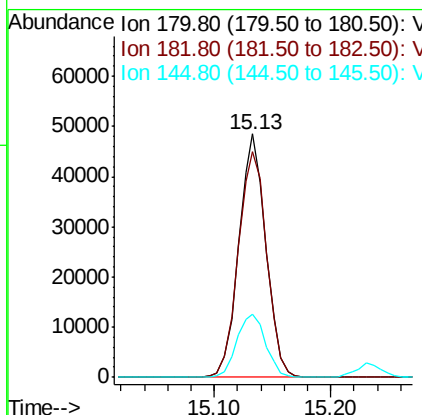
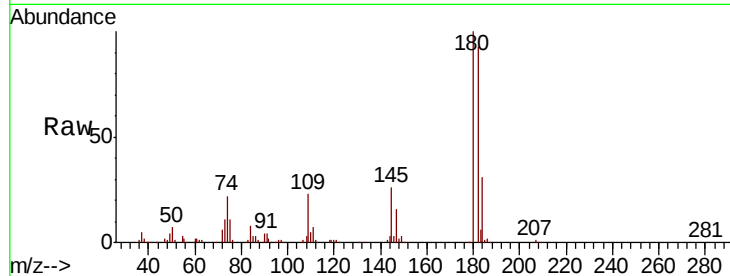
#93
 1,2,4-Trichlorobenzene
 Concen: 20.109 ug/l
 RT: 15.13 min Scan# 2170
 Delta R.T. -0.00 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Instrument :
 MSVOA_W
 ClientSampleId :
 VW1108SBS01

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.9	47.4	142.2
145	27.9	14.1	42.3

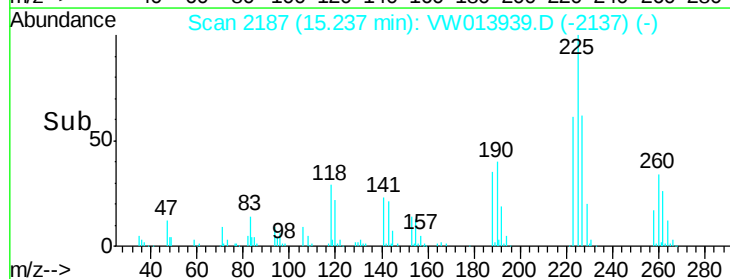
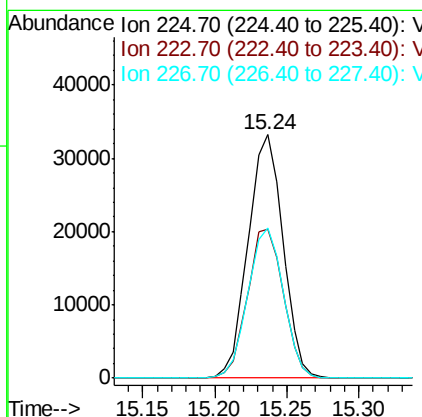
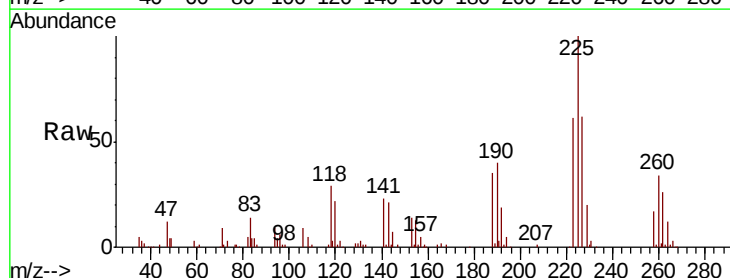
Manual Integrations
 APPROVED

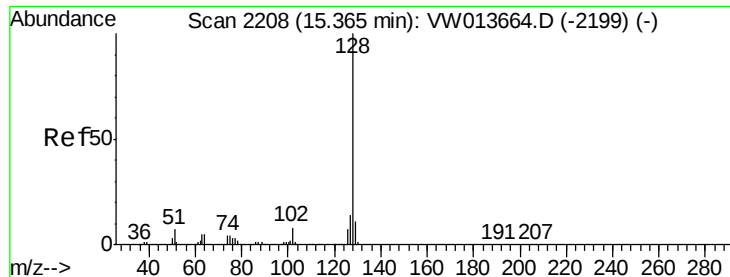
MMDadoda
 11/12/2019 12:58:30 PM



#94
 Hexachlorobutadiene
 Concen: 21.241 ug/l
 RT: 15.24 min Scan# 2187
 Delta R.T. 0.01 min
 Lab File: VW013939.D
 Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.3	31.9	95.9
227	62.7	32.5	97.4





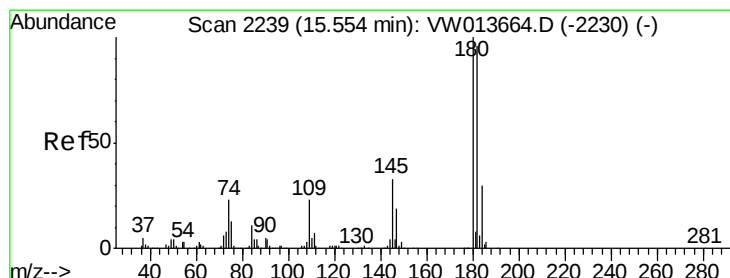
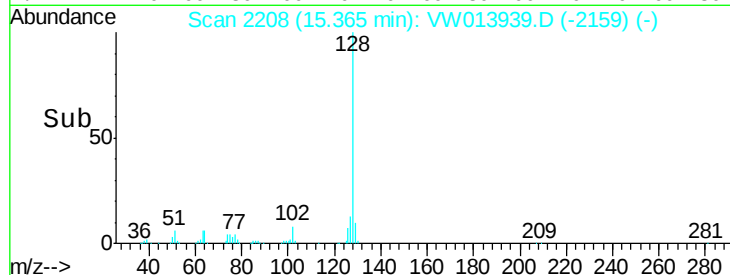
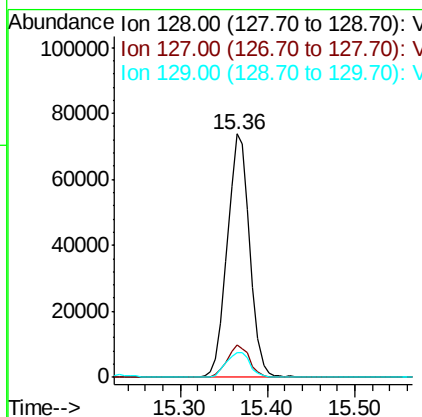
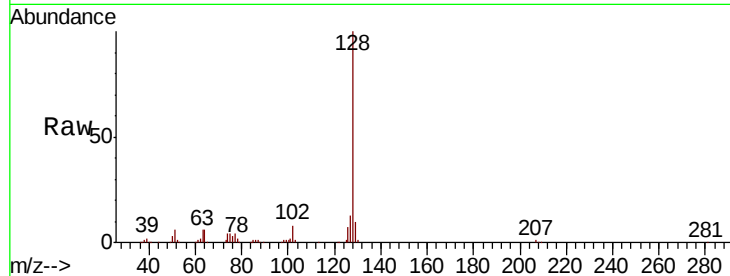
#95
Naphthalene
Concen: 21.630 ug/l
RT: 15.36 min Scan# 2208
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Instrument :
MSVOA_W
ClientSampleId :
VW1108SBSD01

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.2	10.6	15.8
129	11.0	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
11/12/2019 12:58:30 PM



#96
1,2,3-Trichlorobenzene
Concen: 20.918 ug/l
RT: 15.55 min Scan# 2239
Delta R.T. -0.00 min
Lab File: VW013939.D
Acq: 08 Nov 2019 12:57

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.8	47.4	142.3
145	29.2	14.9	44.9

