

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW100818\
 Data File : VW005891.D
 Acq On : 08 Oct 2018 12:40
 Operator : SY/AP
 Sample : VSTDICC100
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDICC100

Manual Integrations
 APPROVED

apatel
 10/9/2018 4:12:12 PM

Quant Time: Oct 09 02:09:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100818S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 01:57:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	331368	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.85	114	489261	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	442723	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	242200	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	326739	101.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	203.14%	
35) Dibromofluoromethane	7.88	113	318743	102.04	ug/l	0.00
Spiked Amount	50.000		Recovery	=	204.08%	
50) Toluene-d8	10.33	98	1228407	102.21	ug/l	0.00
Spiked Amount	50.000		Recovery	=	204.42%	
62) 4-Bromofluorobenzene	12.62	95	465085	101.71	ug/l	0.00
Spiked Amount	50.000		Recovery	=	203.42%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	176759	108.85	ug/l	99
3) Chloromethane	2.21	50	188976	98.94	ug/l	99
4) Vinyl Chloride	2.37	62	315646	104.09	ug/l	98
5) Bromomethane	2.78	94	247994	103.62	ug/l	99
6) Chloroethane	2.93	64	204152	105.67	ug/l	97
7) Trichlorofluoromethane	3.26	101	259908	107.98	ug/l	95
8) Diethyl Ether	3.68	74	151140	102.03	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	4.06	101	308161	101.45	ug/l	100
10) Methyl Iodide	4.27	142	508897	102.44	ug/l	100
11) Tert butyl alcohol	5.19	59	115520	490.00	ug/l	96
12) 1,1-Dichloroethene	4.04	96	296427	101.62	ug/l	98
13) Acrolein	3.89	56	97138	462.36	ug/l	95
14) Allyl chloride	4.67	41	497551	100.02	ug/l	99
15) Acrylonitrile	5.37	53	336846	522.48	ug/l	100
16) Acetone	4.12	43	314017	488.71	ug/l	97
17) Carbon Disulfide	4.38	76	917510	104.04	ug/l	100
18) Methyl Acetate	4.67	43	176038	108.57	ug/l	100
19) Methyl tert-butyl Ether	5.43	73	452540	99.72	ug/l	100
20) Methylene Chloride	4.92	84	299950	93.17	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	328233	103.24	ug/l	97
22) Diisopropyl ether	6.32	45	946472	101.78	ug/l	96
23) Vinyl Acetate	6.26	43	2950193	515.45	ug/l	100
24) 1,1-Dichloroethane	6.21	63	578366	101.63	ug/l	99
25) 2-Butanone	7.17	43	462448	506.01	ug/l	100
26) 2,2-Dichloropropane	7.16	77	374981	93.63	ug/l	100
27) cis-1,2-Dichloroethene	7.17	96	367800	102.29	ug/l	99
28) Bromochloromethane	7.51	49	200707	95.55	ug/l	100
29) Tetrahydrofuran	7.53	42	301342	521.61	ug/l	100
30) Chloroform	7.68	83	599604	102.58	ug/l	98
31) Cyclohexane	7.96	56	538600	95.64	ug/l	97
32) 1,1,1-Trichloroethane	7.87	97	524983	100.85	ug/l	99
36) 1,1-Dichloropropene	8.09	75	477058	101.76	ug/l	99
37) Ethyl Acetate	7.26	43	206174	103.85	ug/l	99
38) Carbon Tetrachloride	8.07	117	516480	102.54	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW100818\
 Data File : VW005891.D
 Acq On : 08 Oct 2018 12:40
 Operator : SY/AP
 Sample : VSTDICC100
 Misc : 5.00G/5ML/MSVOA_W/SOIL
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleID :
 VSTDICC100

Manual Integrations
 APPROVED

apatel
 10/9/2018 4:12:12 PM

Quant Time: Oct 09 02:09:41 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100818S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 09 01:57:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.34	83	638291	103.23	ug/l	99
40) Benzene	8.33	78	1309703	102.07	ug/l	100
41) Methacrylonitrile	7.49	41	128864	103.68	ug/l	98
42) 1,2-Dichloroethane	8.40	62	398854	102.89	ug/l	100
43) Isopropyl Acetate	8.43	43	434968	104.89	ug/l	100
44) Trichloroethene	9.09	130	384091	103.17	ug/l	97
45) 1,2-Dichloropropane	9.37	63	326107	101.54	ug/l	99
46) Dibromomethane	9.46	93	182604	103.45	ug/l	99
47) Bromodichloromethane	9.65	83	458880	103.31	ug/l	97
48) Methyl methacrylate	9.44	41	207595	105.08	ug/l	99
49) 1,4-Dioxane	9.45	88	56390	2103.11	ug/l #	99
51) 4-Methyl-2-Pentanone	10.21	43	1057458	523.63	ug/l	99
52) Toluene	10.39	92	864690	102.58	ug/l	99
53) t-1,3-Dichloropropene	10.61	75	482234	103.88	ug/l	100
54) cis-1,3-Dichloropropene	10.07	75	536228	102.76	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	249947	102.23	ug/l	99
56) Ethyl methacrylate	10.65	69	345557	104.86	ug/l	99
57) 1,3-Dichloropropane	10.93	76	421474	102.47	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.93	63	658332	490.99	ug/l	100
59) 2-Hexanone	10.97	43	748023	516.59	ug/l	99
60) Dibromochloromethane	11.13	129	328954	104.26	ug/l	100
61) 1,2-Dibromoethane	11.24	107	253388	103.71	ug/l	100
64) Tetrachloroethene	10.87	164	341855	103.66	ug/l	98
65) Chlorobenzene	11.66	112	970546	102.34	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.73	131	362344	104.24	ug/l	99
67) Ethyl Benzene	11.74	91	1705424	101.81	ug/l	99
68) m/p-Xylenes	11.84	106	1342573	205.10	ug/l	99
69) o-Xylene	12.17	106	648605	103.50	ug/l	99
70) Styrene	12.18	104	1078828	103.76	ug/l	100
71) Bromoform	12.35	173	221634	107.04	ug/l #	99
73) Isopropylbenzene	12.47	105	1799553	101.74	ug/l	100
74) N-amyl acetate	12.27	43	434298	103.38	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.72	83	297732	102.69	ug/l	99
76) 1,2,3-Trichloropropane	12.77	75	232677m	62.76	ug/l	
77) Bromobenzene	12.75	156	431270	102.91	ug/l	99
78) n-propylbenzene	12.81	91	2098507	100.85	ug/l	100
79) 2-Chlorotoluene	12.90	91	1189201	101.24	ug/l	100
80) 1,3,5-Trimethylbenzene	12.95	105	1514432	101.41	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.52	75	107467	104.86	ug/l	98
82) 4-Chlorotoluene	12.99	91	1265208	102.38	ug/l	100
83) tert-Butylbenzene	13.21	119	1350097	101.65	ug/l	100
84) 1,2,4-Trimethylbenzene	13.26	105	1521177	100.98	ug/l	100
85) sec-Butylbenzene	13.39	105	1885292	101.12	ug/l	100
86) p-Isopropyltoluene	13.51	119	1694188	101.05	ug/l	100
87) 1,3-Dichlorobenzene	13.51	146	844872	101.48	ug/l	100
88) 1,4-Dichlorobenzene	13.58	146	838117	101.30	ug/l	100
89) n-Butylbenzene	13.83	91	1588855	100.53	ug/l	100
90) Hexachloroethane	14.10	117	321861	102.07	ug/l	99
91) 1,2-Dichlorobenzene	13.88	146	752473	101.80	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.49	75	56240	104.09	ug/l	98

Data Path : Z:\VOASRV\HPCHEM1\MSVOA_W\DATA\VW100818\
Data File : VW005891.D
Acq On : 08 Oct 2018 12:40
Operator : SY/AP
Sample : VSTDICC100
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM

Quant Time: Oct 09 02:09:41 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W100818S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 09 01:57:02 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	15.14	180	578040	100.86	ug/l	100
94) Hexachlorobutadiene	15.24	225	362261	101.26	ug/l	100
95) Naphthalene	15.38	128	1020869	103.34	ug/l	100
96) 1,2,3-Trichlorobenzene	15.57	180	503903	101.54	ug/l	100

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

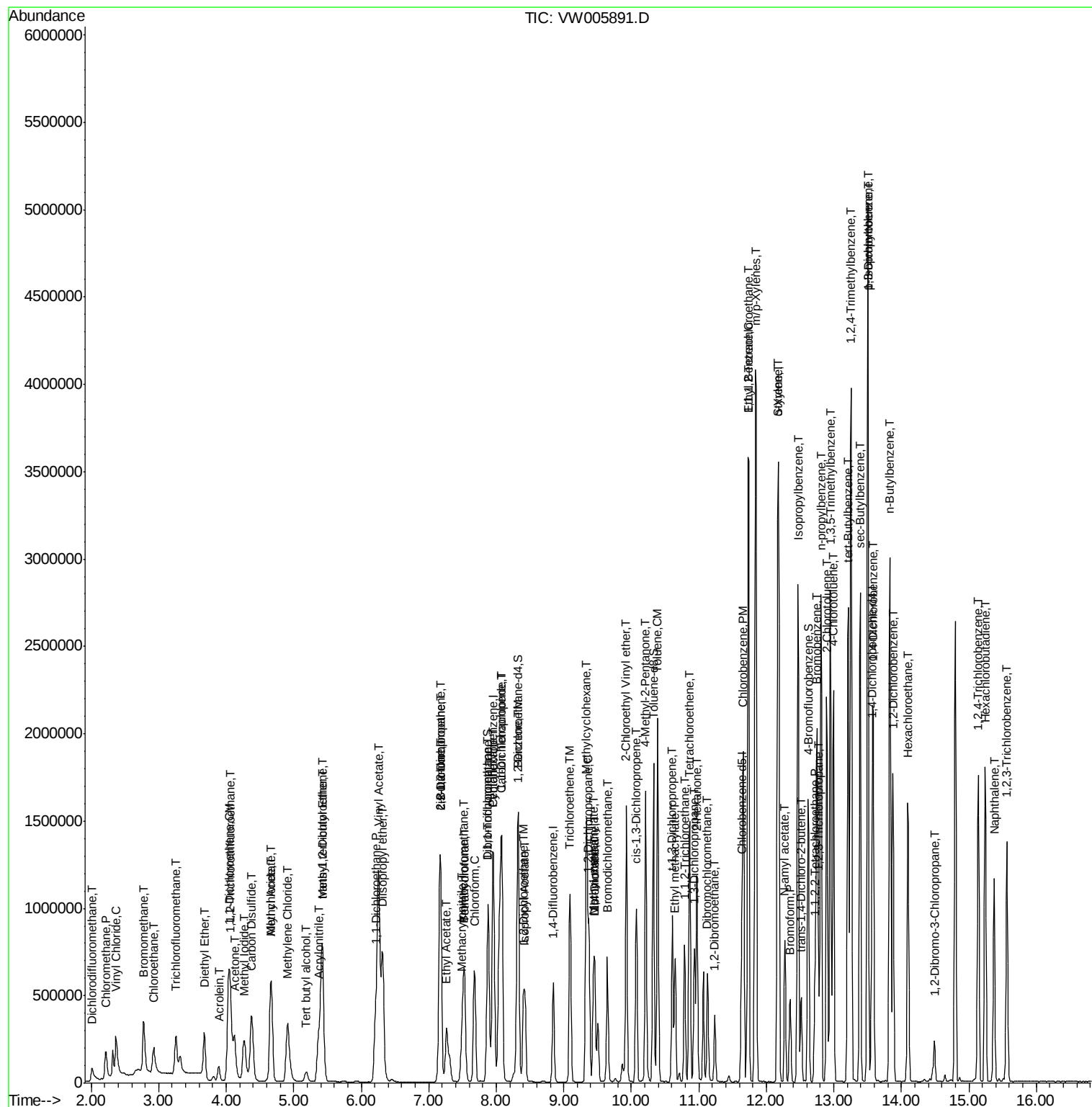
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA_W\DATA\VW100818\
Data File : VW005891.D
Acq On : 08 Oct 2018 12:40
Operator : SY/AP
Sample : VSTDIC100
Misc : 5.00G/5ML/MSVOA_W/SOIL
ALS Vial : 8 Sample Multiplier: 1

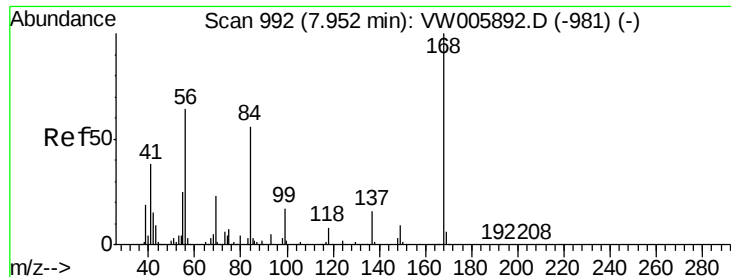
Instrument :
MSVOA_W
ClientSampleId :
VSTDIC100

Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM

Quant Time: Oct 09 02:09:41 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W100818S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 09 01:57:02 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.95 min Scan# 992

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC100

Tgt Ion: 168 Resp: 331368

Ion Ratio Lower Upper

168 100

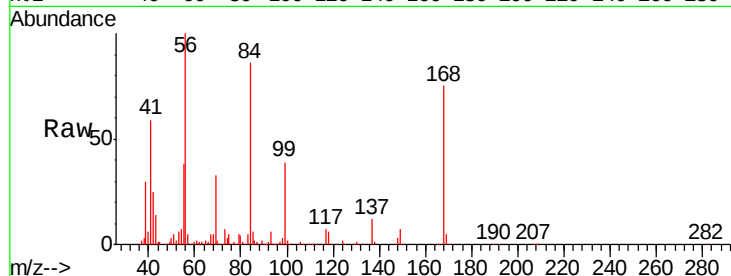
99 51.2 40.9 61.3

Manual Integrations

APPROVED

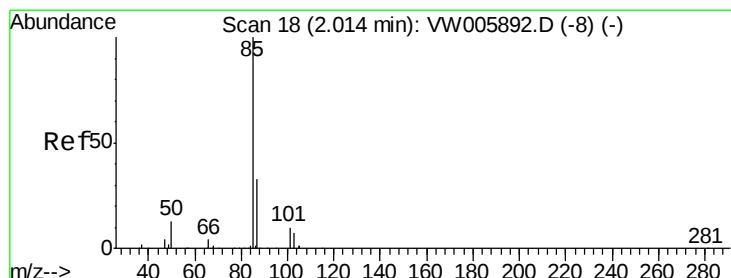
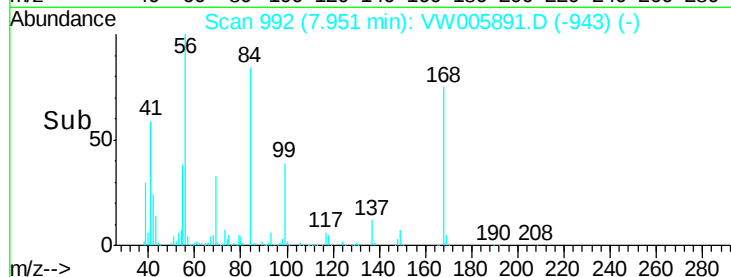
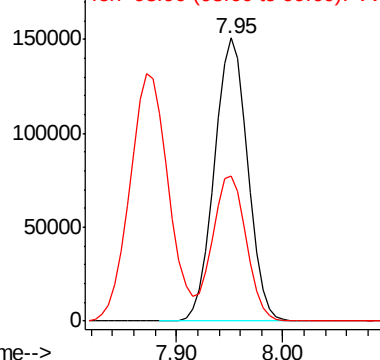
apatel

10/9/2018 4:12:12 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW



#2

Dichlorodifluoromethane

Concen: 108.85 ug/l

RT: 2.01 min Scan# 18

Delta R.T. -0.00 min

Lab File: VW005891.D

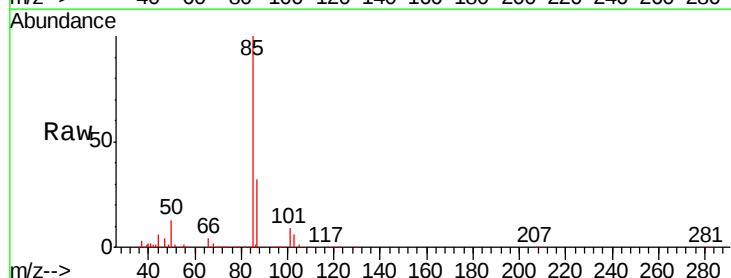
Acq: 08 Oct 2018 12:40

Tgt Ion: 85 Resp: 176759

Ion Ratio Lower Upper

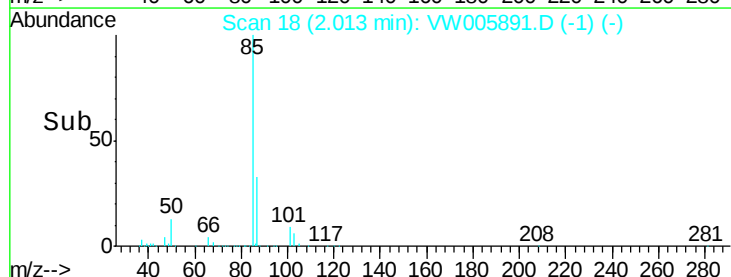
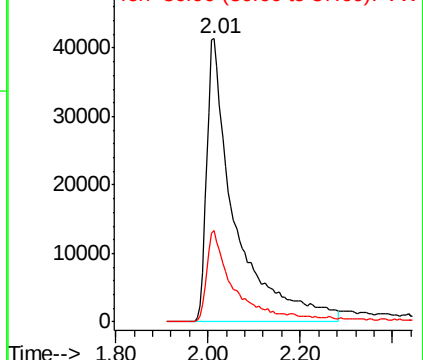
85 100

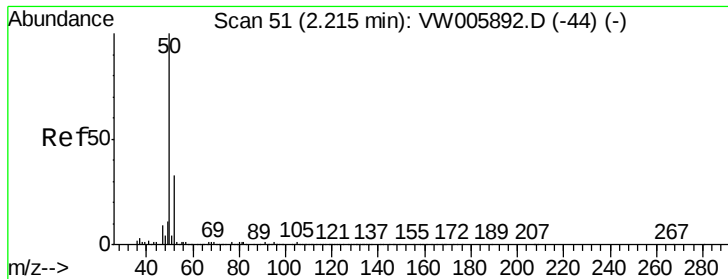
87 32.5 16.6 49.8



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW





#3

Chloromethane

Concen: 98.94 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

ClientSampleID :

VSTDICC100

Tgt Ion: 50 Resp: 188976

Ion Ratio Lower Upper

50 100

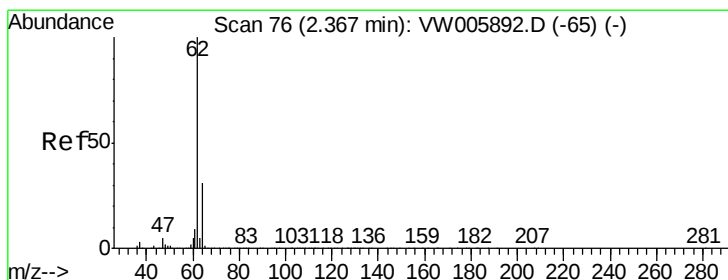
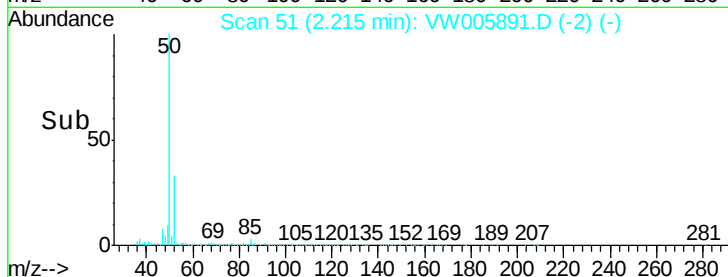
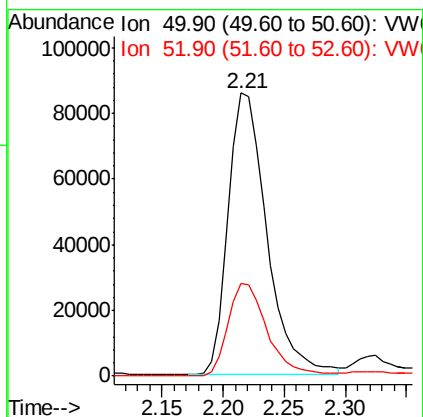
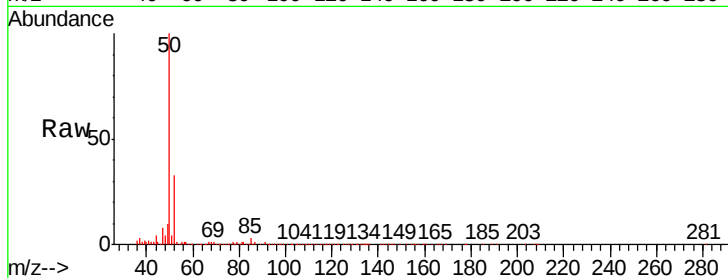
52 32.9 26.7 40.1

Manual Integrations

APPROVED

apatel

10/9/2018 4:12:12 PM



#4

Vinyl Chloride

Concen: 104.09 ug/l

RT: 2.37 min Scan# 76

Delta R.T. -0.00 min

Lab File: VW005891.D

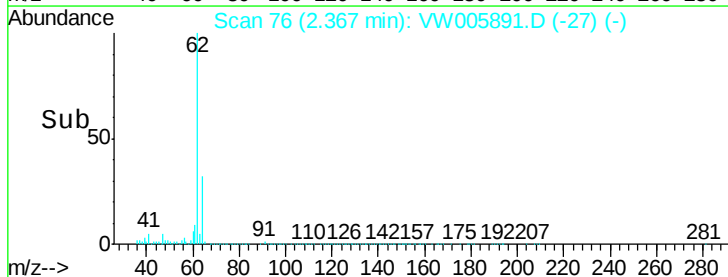
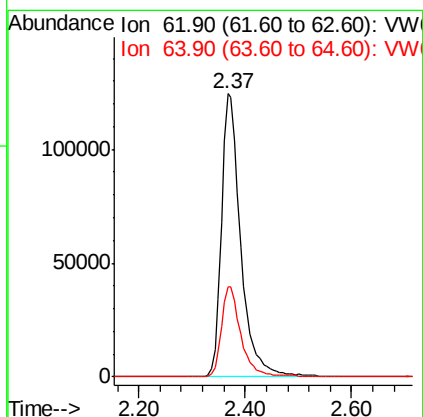
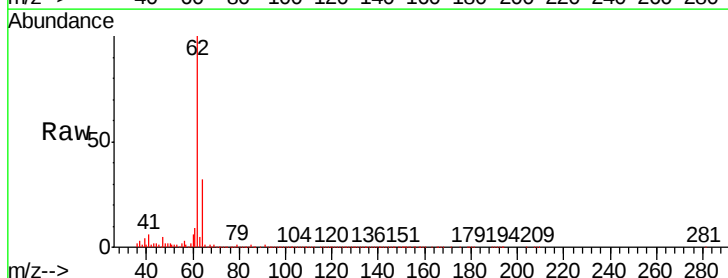
Acq: 08 Oct 2018 12:40

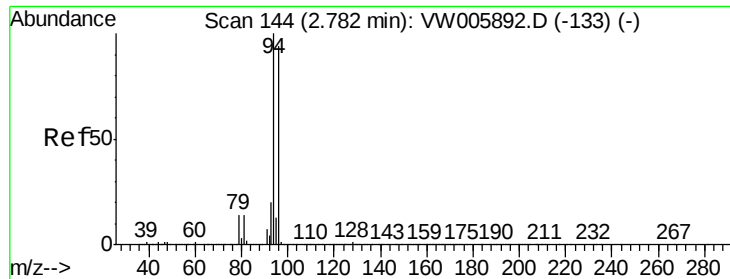
Tgt Ion: 62 Resp: 315646

Ion Ratio Lower Upper

62 100

64 31.6 24.6 36.8





#5

Bromomethane

Concen: 103.62 ug/l

RT: 2.78 min Scan# 143

Delta R.T. -0.01 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

ClientSampled :

VSTDICC100

Tgt Ion: 94 Resp: 247994

Ion Ratio Lower Upper

94 100

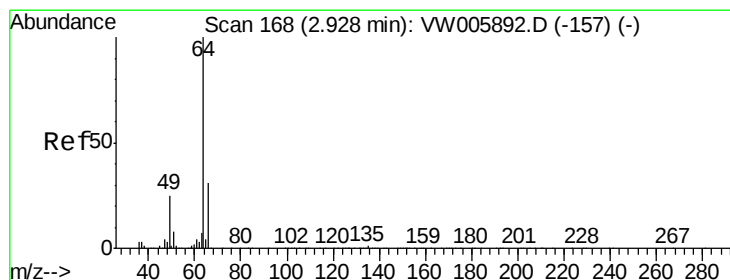
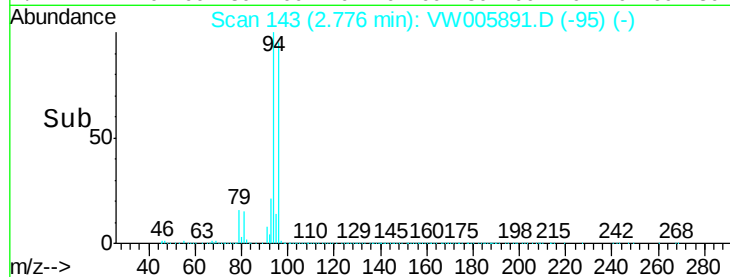
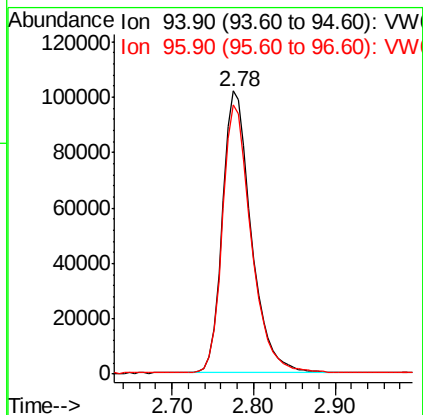
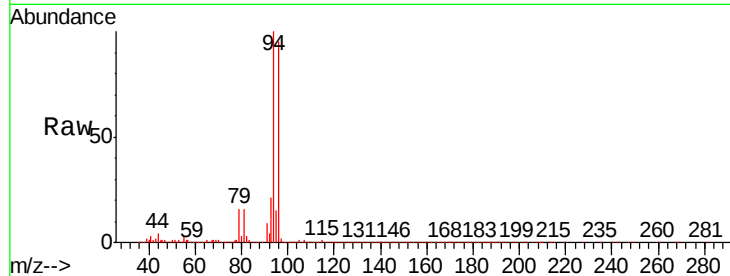
96 95.1 75.0 112.4

Manual Integrations

APPROVED

apatel

10/9/2018 4:12:12 PM



#6

Chloroethane

Concen: 105.67 ug/l

RT: 2.93 min Scan# 168

Delta R.T. -0.00 min

Lab File: VW005891.D

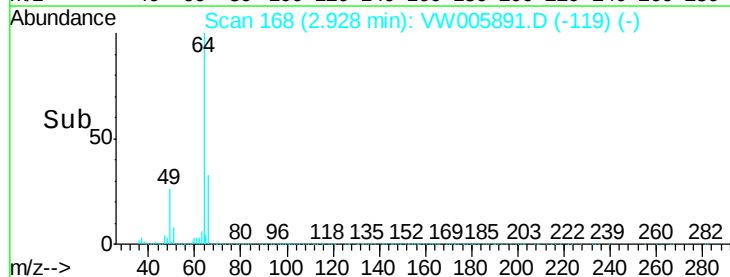
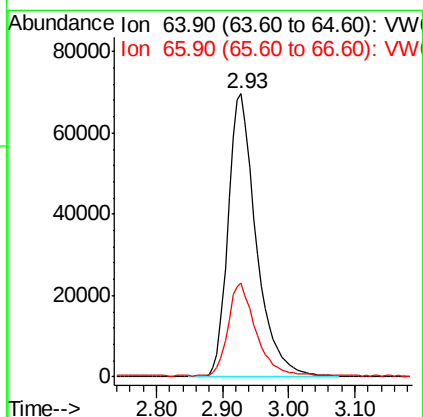
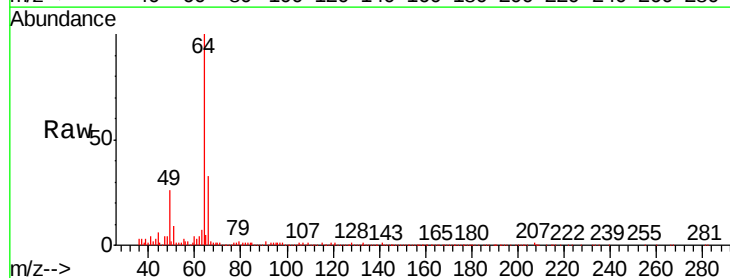
Acq: 08 Oct 2018 12:40

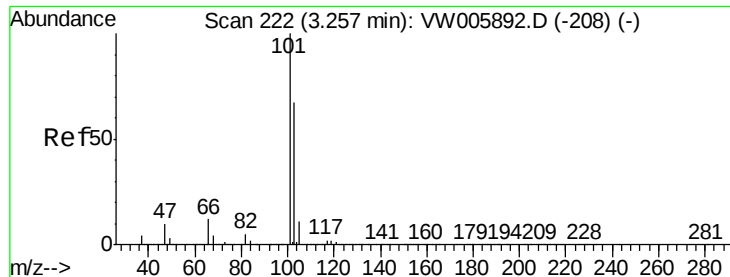
Tgt Ion: 64 Resp: 204152

Ion Ratio Lower Upper

64 100

66 32.6 25.0 37.4





#7

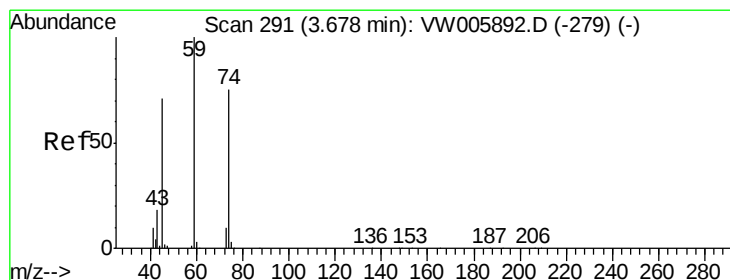
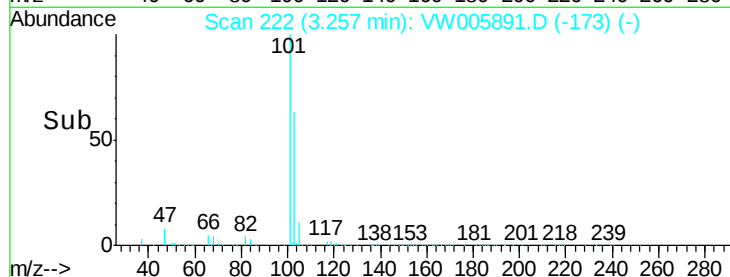
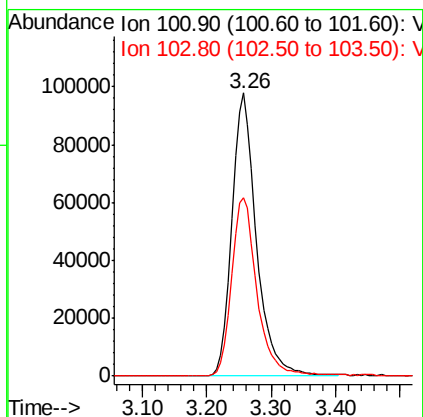
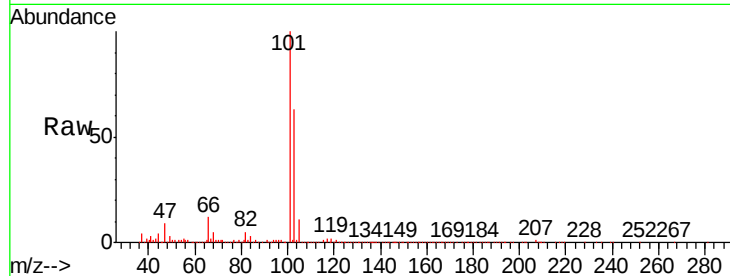
Trichlorofluoromethane
Concen: 107.98 ug/l
RT: 3.26 min Scan# 222
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampled :
VSTDICC100

Tgt Ion	Ratio	Resp	Lower	Upper
101	100	259908		
103	63.1	53.5	80.3	

Manual Integrations
APPROVED

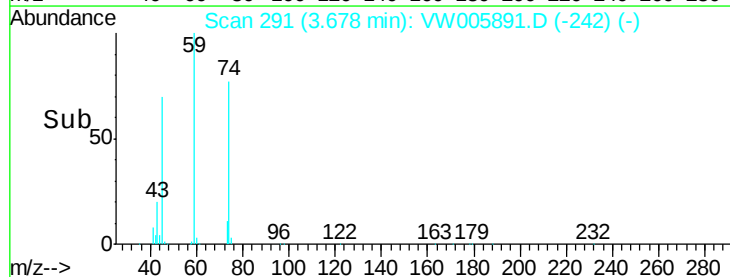
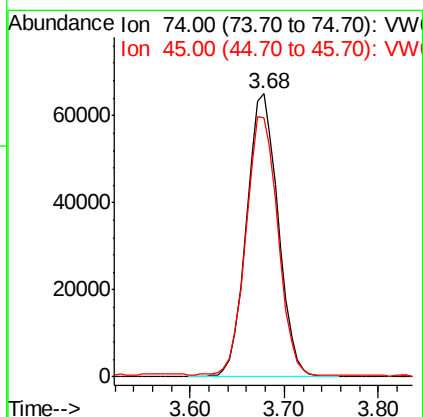
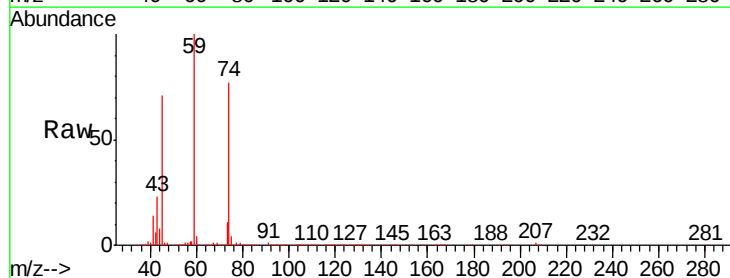
apatel
10/9/2018 4:12:12 PM

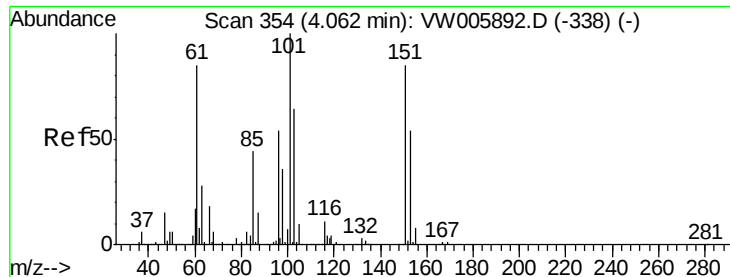


#8

Diethyl Ether
Concen: 102.03 ug/l
RT: 3.68 min Scan# 291
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	151140		
45	93.3	46.8	140.4	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 101.45 ug/l

RT: 4.06 min Scan# 354

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

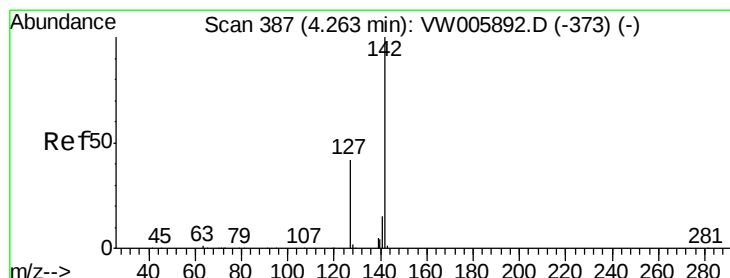
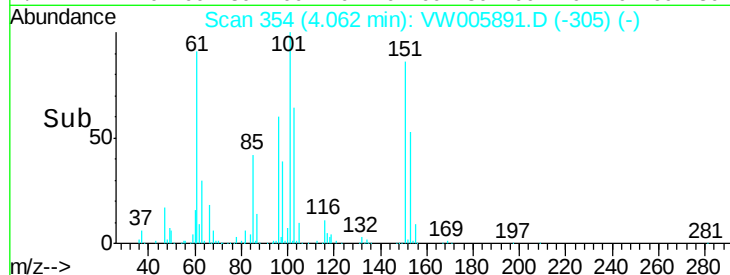
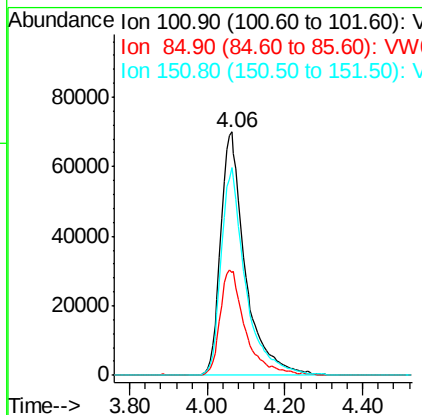
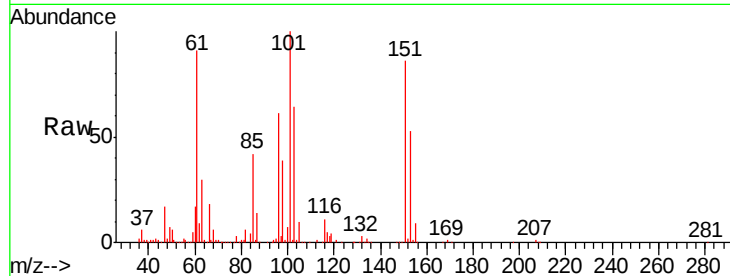
ClientSampleId :

VSTDIC100

Tgt Ion:	101	Resp:	308161
Ion Ratio	Lower	Upper	
101	100		
85	43.9	35.1	52.7
151	84.6	67.7	101.5

Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM



#10

Methyl Iodide

Concen: 102.44 ug/l

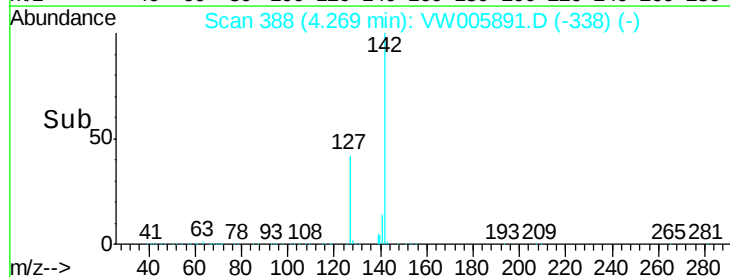
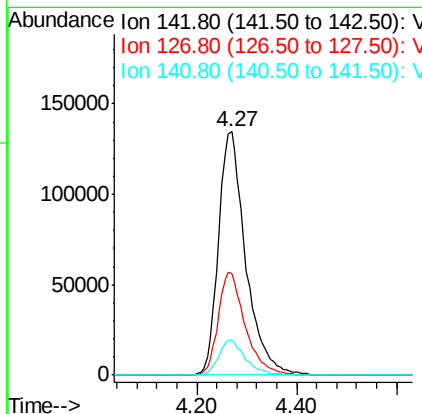
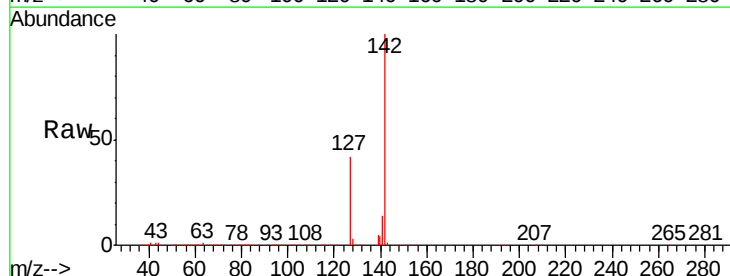
RT: 4.27 min Scan# 388

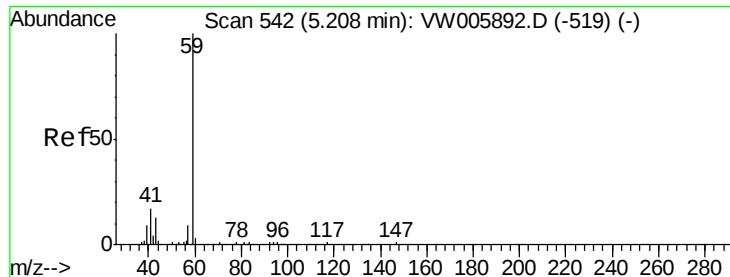
Delta R.T. 0.01 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Tgt Ion:	142	Resp:	508897
Ion Ratio	Lower	Upper	
142	100		
127	42.2	33.7	50.5
141	14.3	11.5	17.3





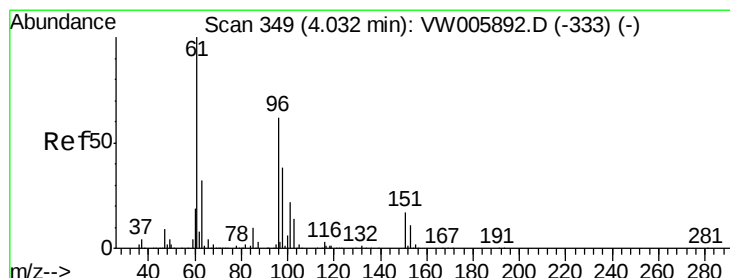
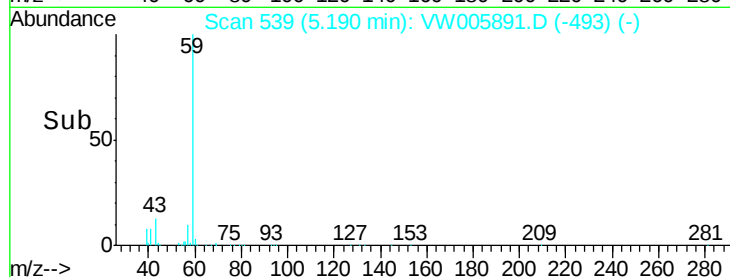
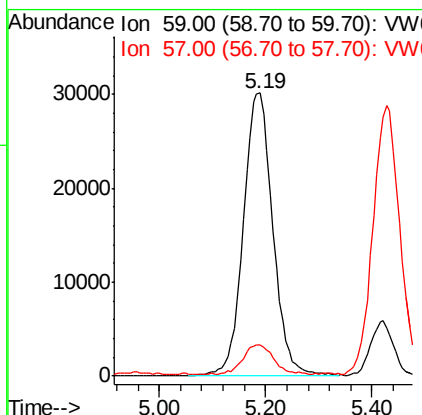
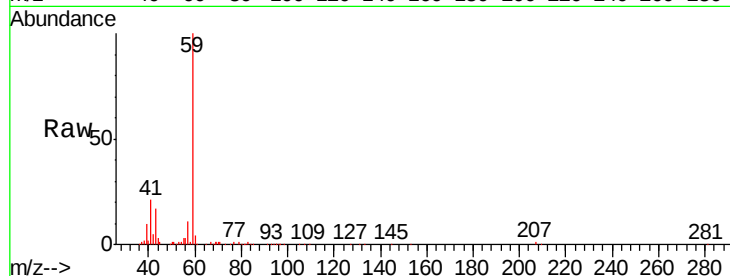
#11
Tert butyl alcohol
Concen: 490.00 ug/l
RT: 5.19 min Scan# 539
Delta R.T. -0.02 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC100

Tgt Ion: 59 Resp: 115520
Ion Ratio Lower Upper
59 100
57 11.2 7.7 11.5

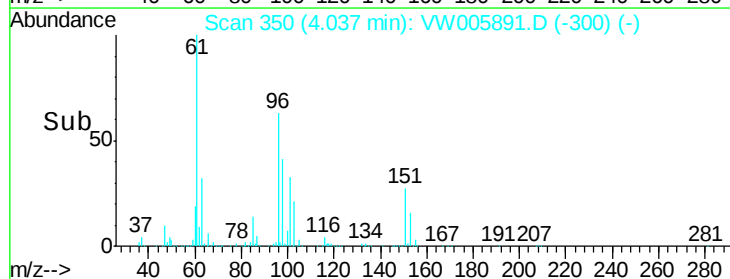
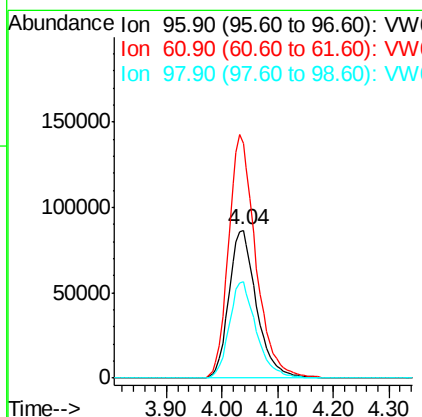
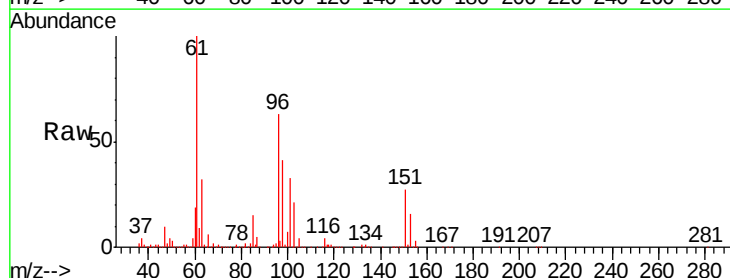
Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM



#12
1,1-Dichloroethene
Concen: 101.62 ug/l
RT: 4.04 min Scan# 350
Delta R.T. 0.01 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion: 96 Resp: 296427
Ion Ratio Lower Upper
96 100
61 158.8 128.6 193.0
98 64.8 49.4 74.0





#13

Acrolein

Concen: 462.36 ug/l

RT: 3.89 min Scan# 326

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC100

Tgt Ion: 56 Resp: 97138

Ion Ratio Lower Upper

56 100

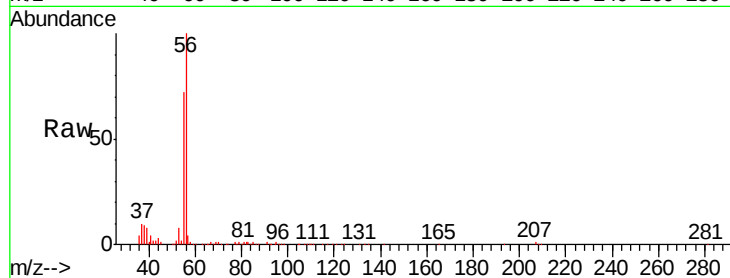
55 72.5 54.6 82.0

Manual Integrations

APPROVED

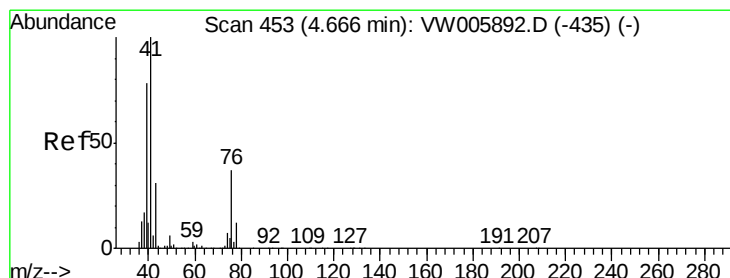
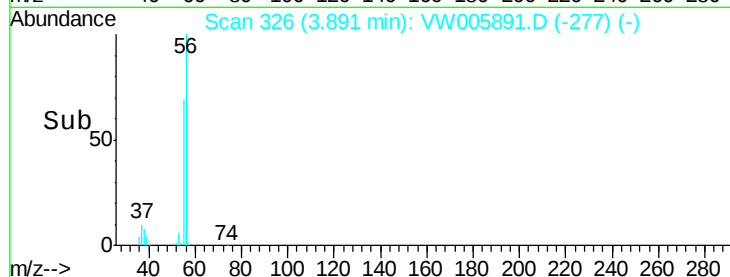
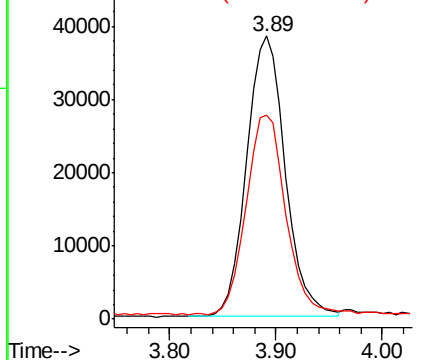
apatel

10/9/2018 4:12:12 PM



Abundance Ion 56.00 (55.70 to 56.70): VW

Ion 55.00 (54.70 to 55.70): VW



#14

Allyl chloride

Concen: 100.02 ug/l

RT: 4.67 min Scan# 453

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

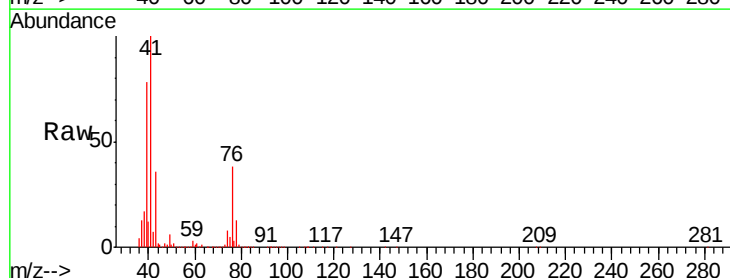
Tgt Ion: 41 Resp: 497551

Ion Ratio Lower Upper

41 100

39 75.5 60.8 91.2

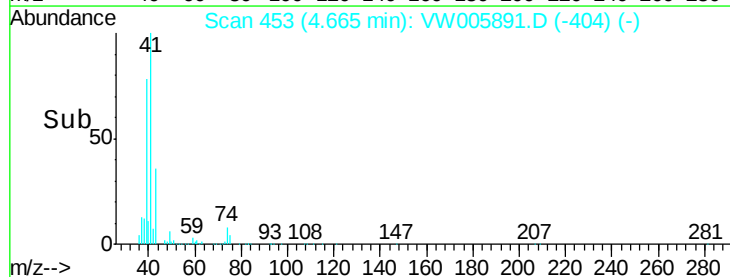
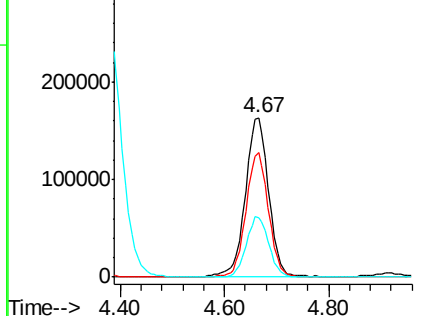
76 36.5 29.6 44.4



Abundance Ion 41.00 (40.70 to 41.70): VW

Ion 39.00 (38.70 to 39.70): VW

Ion 75.90 (75.60 to 76.60): VW





#15

Acrylonitrile

Concen: 522.48 ug/l

RT: 5.37 min Scan# 569

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

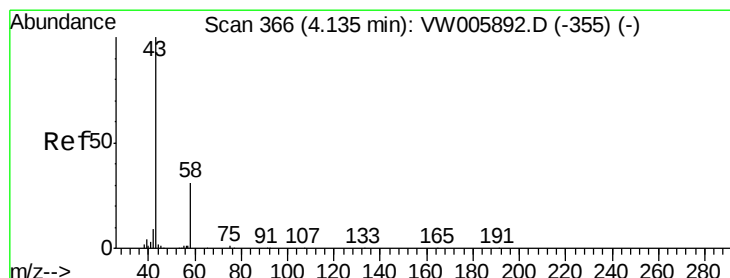
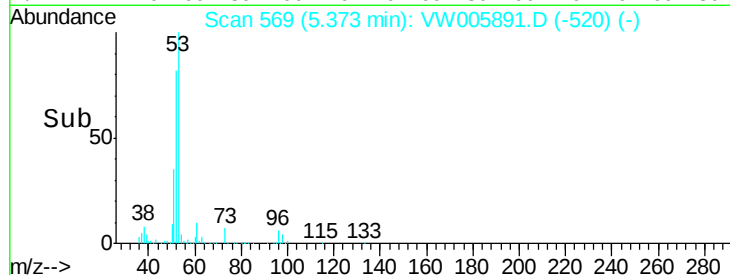
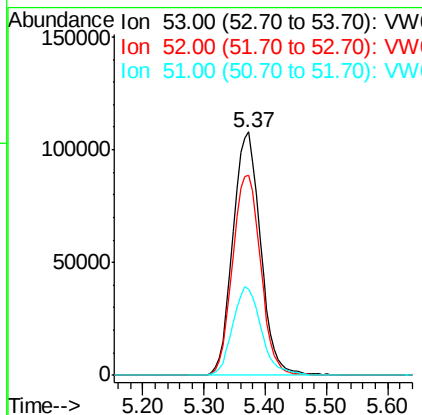
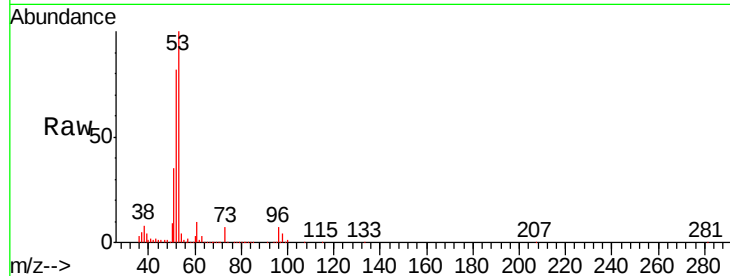
ClientSampleId :

VSTDICC100

Tgt Ion:	53	Resp:	336846
Ion	Ratio	Lower	Upper
53	100		
52	83.5	66.8	100.2
51	37.4	29.8	44.6

Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM



#16

Acetone

Concen: 488.71 ug/l

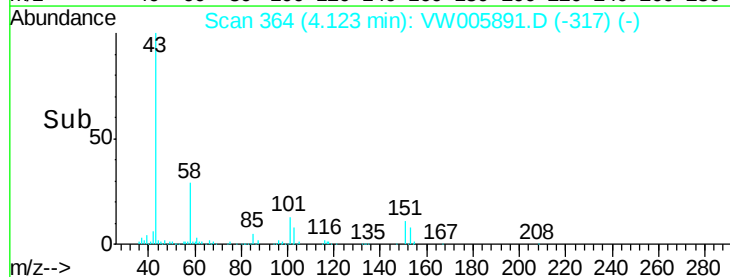
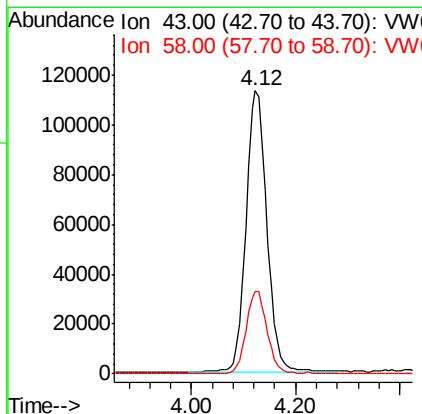
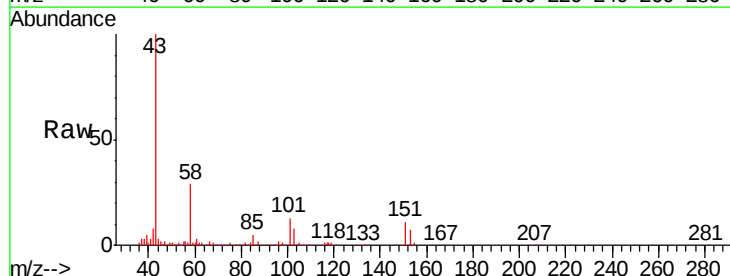
RT: 4.12 min Scan# 364

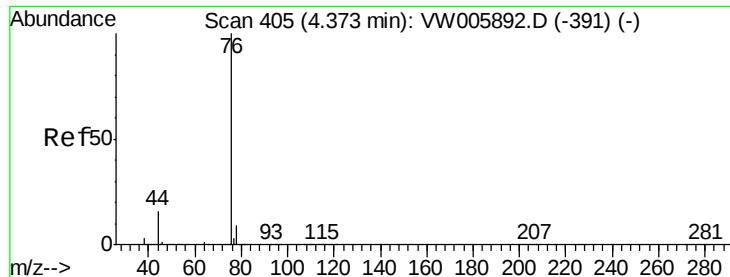
Delta R.T. -0.01 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Tgt Ion:	43	Resp:	314017
Ion	Ratio	Lower	Upper
43	100		
58	29.1	24.7	37.1





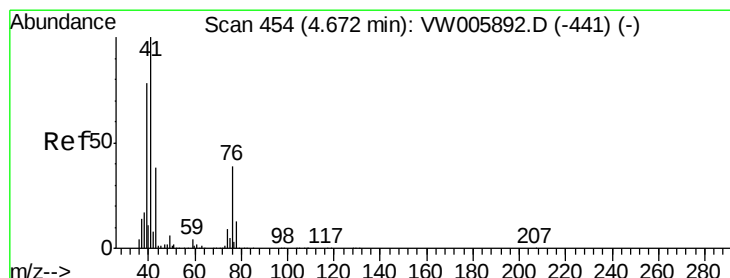
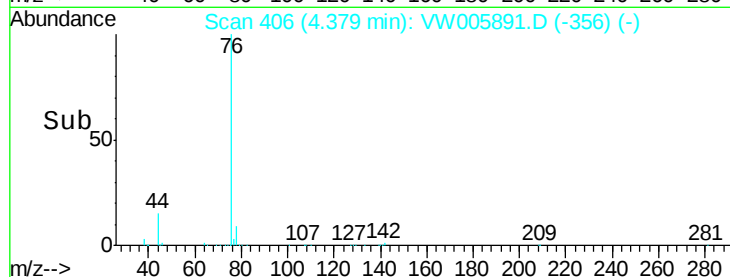
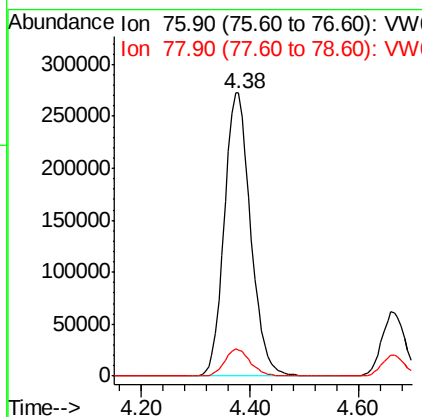
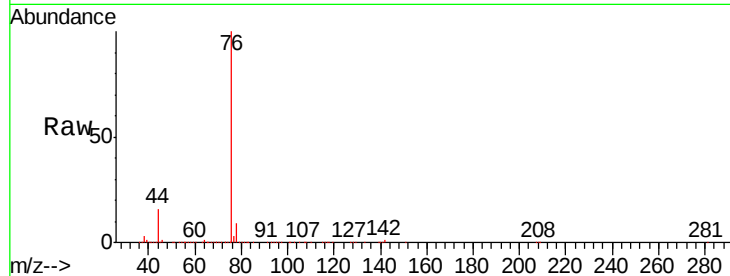
#17
Carbon Disulfide
Concen: 104.04 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.01 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion	Ratio	Lower	Upper
76	100		
78	9.1	7.4	11.0

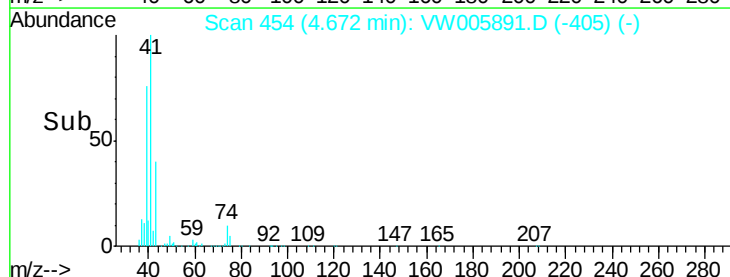
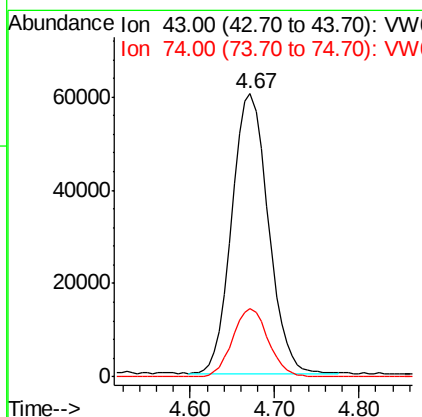
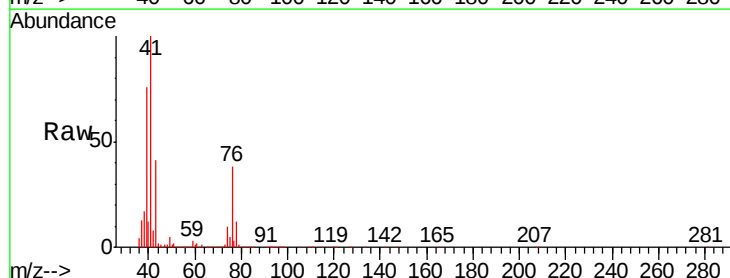
Manual Integrations
APPROVED

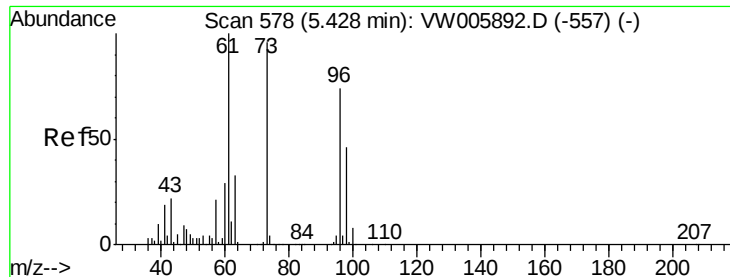
apatel
10/9/2018 4:12:12 PM



#18
Methyl Acetate
Concen: 108.57 ug/l
RT: 4.67 min Scan# 454
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.1	19.2	28.8





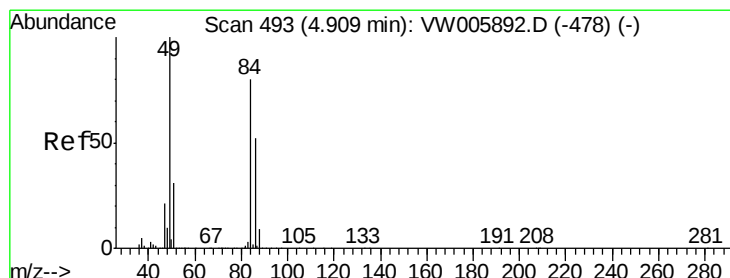
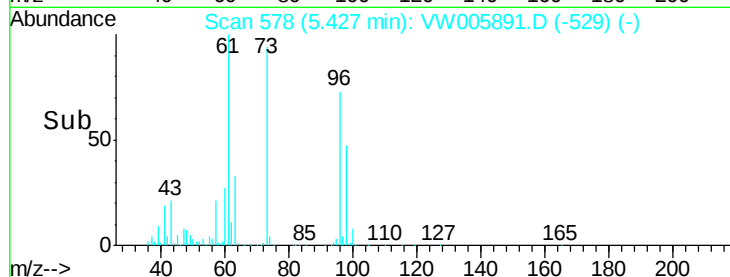
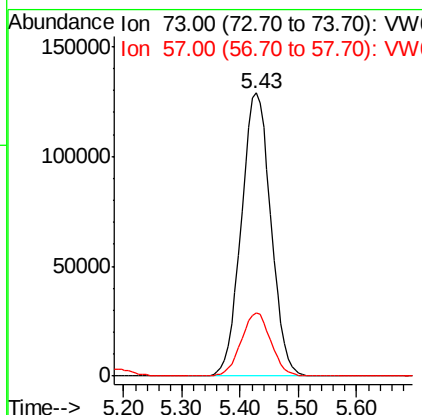
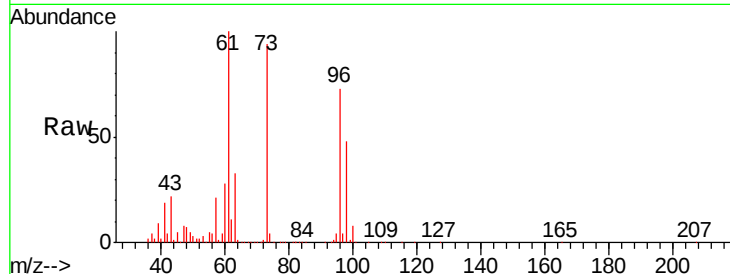
#19
Methyl tert-butyl Ether
Concen: 99.72 ug/l
RT: 5.43 min Scan# 578
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion	Ratio	Lower	Upper
73	100		
57	22.3	17.7	26.5

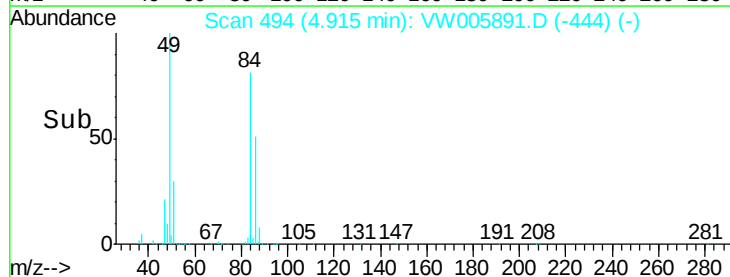
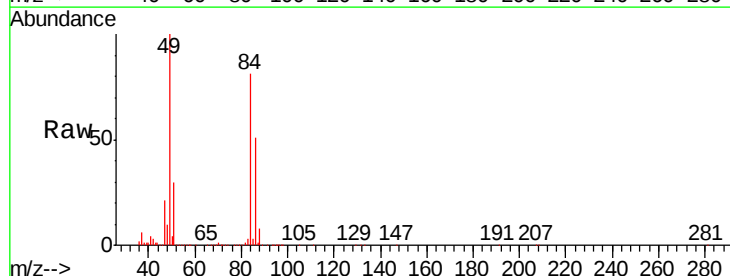
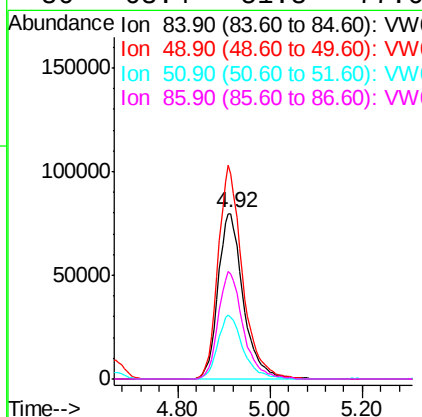
Manual Integrations
APPROVED

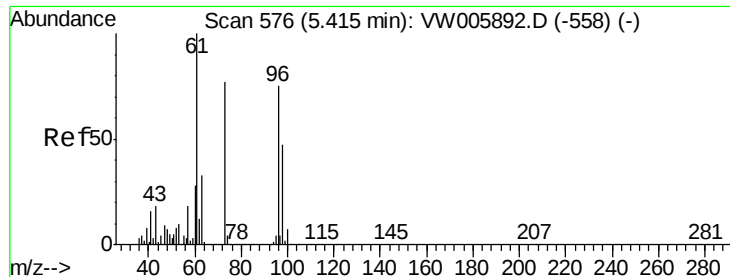
apatel
10/9/2018 4:12:12 PM



#20
Methylene Chloride
Concen: 93.17 ug/l
RT: 4.92 min Scan# 494
Delta R.T. 0.01 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
84	100		
49	123.7	99.9	149.9
51	37.0	31.1	46.7
86	63.4	51.8	77.6





#21

trans-1,2-Dichloroethene

Concen: 103.24 ug/l

RT: 5.42 min Scan# 577

Delta R.T. 0.01 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

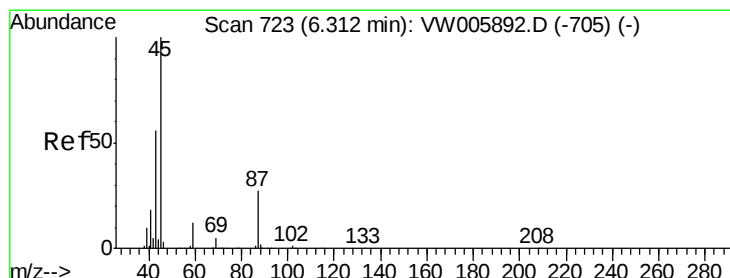
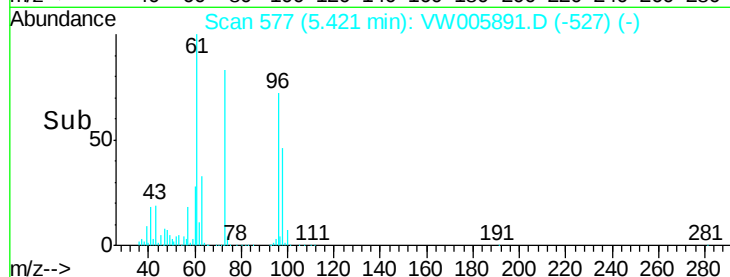
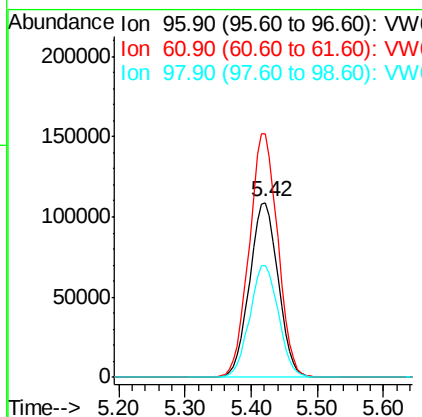
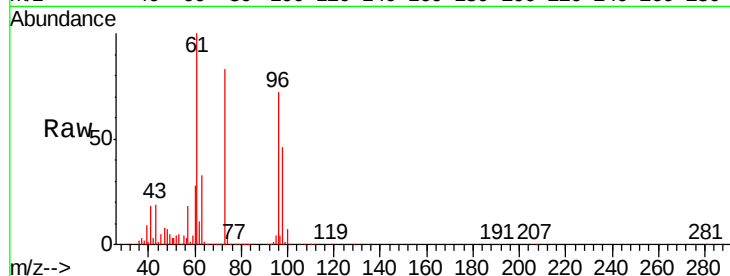
ClientSampleId :

VSTDIC100

Tgt Ion:	96	Resp:	328233
Ion	Ratio	Lower	Upper
96	100		
61	139.5	107.4	161.0
98	64.3	50.8	76.2

Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM



#22

Diisopropyl ether

Concen: 101.78 ug/l

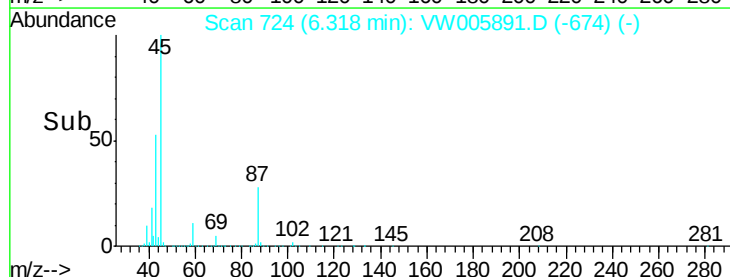
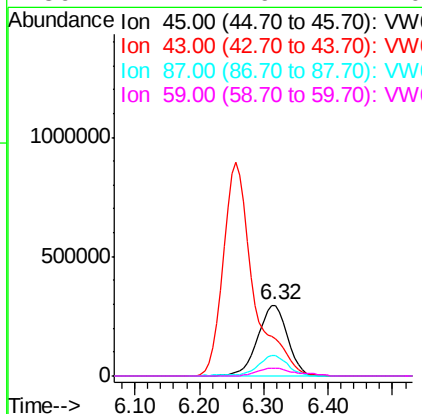
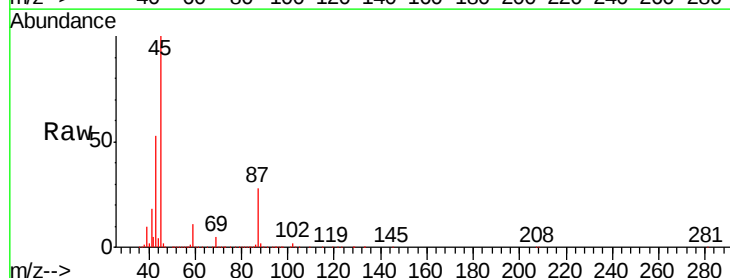
RT: 6.32 min Scan# 724

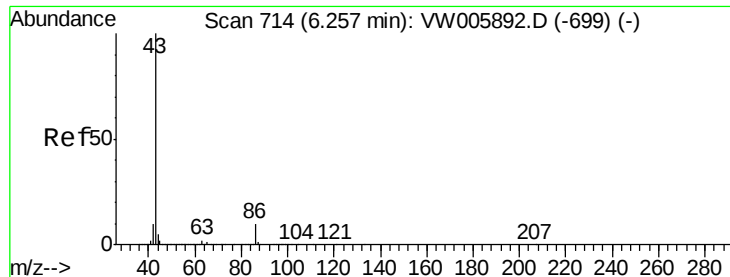
Delta R.T. 0.01 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Tgt Ion:	45	Resp:	946472
Ion	Ratio	Lower	Upper
45	100		
43	53.2	45.9	68.9
87	28.0	22.2	33.4
59	11.2	9.4	14.0





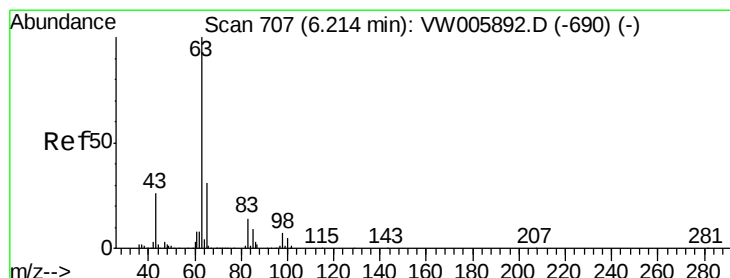
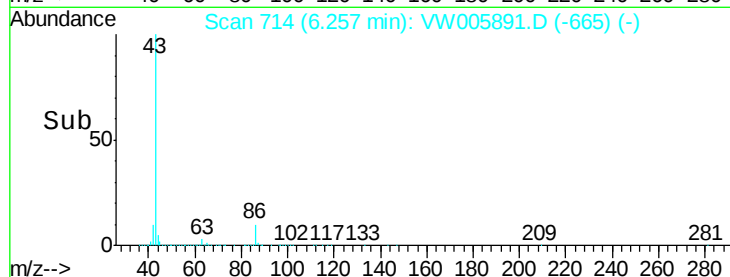
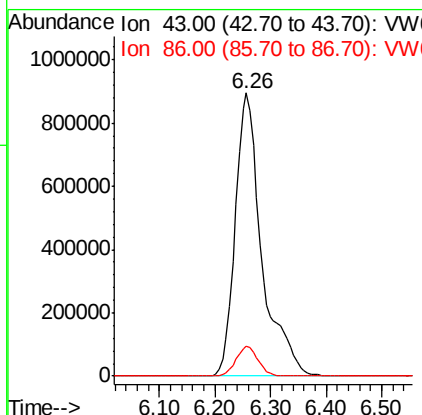
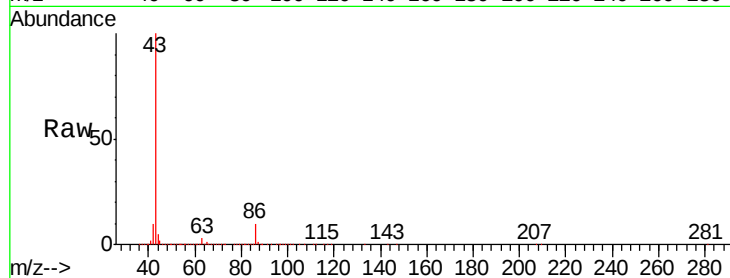
#23
 Vinyl Acetate
 Concen: 515.45 ug/l
 RT: 6.26 min Scan# 714
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Instrument :
 MSVOA_W
 ClientSampleID :
 VSTDIC100

Tgt Ion: 43 Resp: 2950193
 Ion Ratio Lower Upper
 43 100
 86 10.5 8.2 12.4

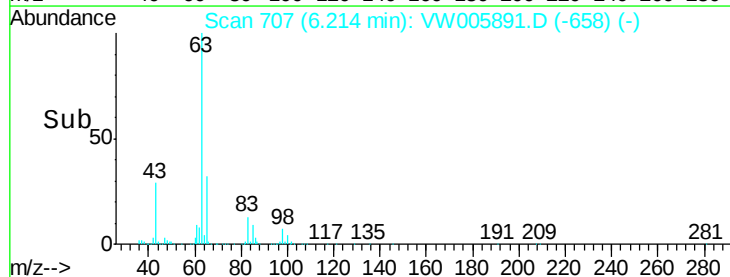
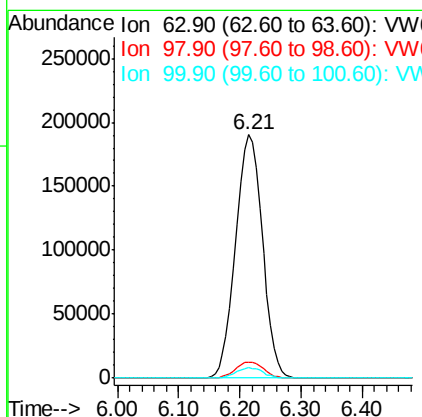
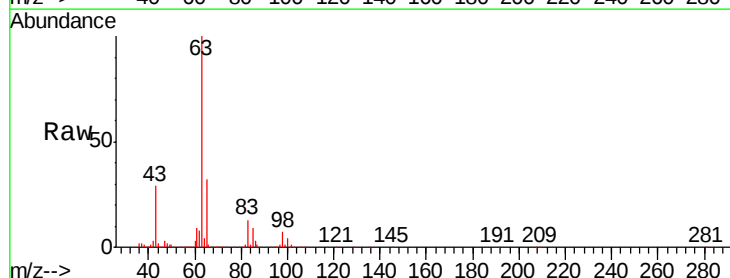
Manual Integrations
 APPROVED

apatel
 10/9/2018 4:12:12 PM



#24
 1,1-Dichloroethane
 Concen: 101.63 ug/l
 RT: 6.21 min Scan# 707
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Tgt Ion: 63 Resp: 578366
 Ion Ratio Lower Upper
 63 100
 98 6.7 3.5 10.6
 100 4.1 2.4 7.1





#25

2-Butanone

Concen: 506.01 ug/l

RT: 7.17 min Scan# 864

Delta R.T. -0.01 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

ClientSampled :

VSTDICC100

Tgt Ion: 43 Resp: 462448

Ion Ratio Lower Upper

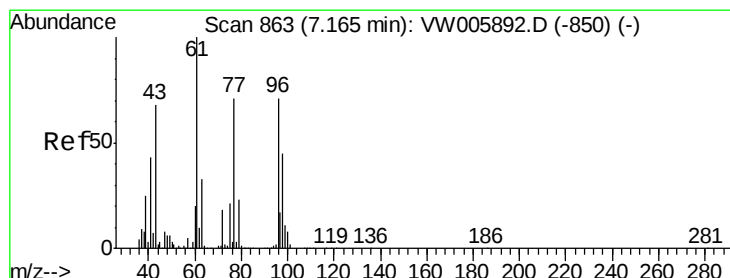
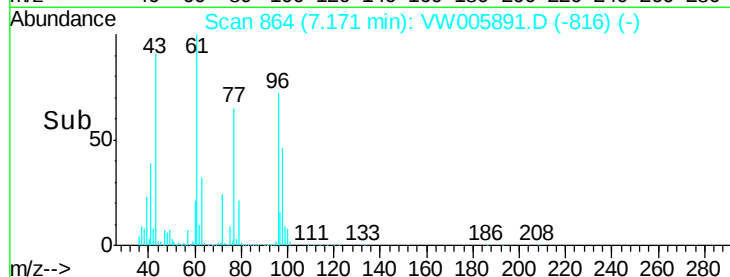
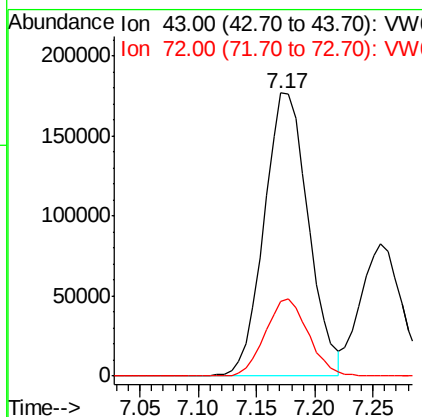
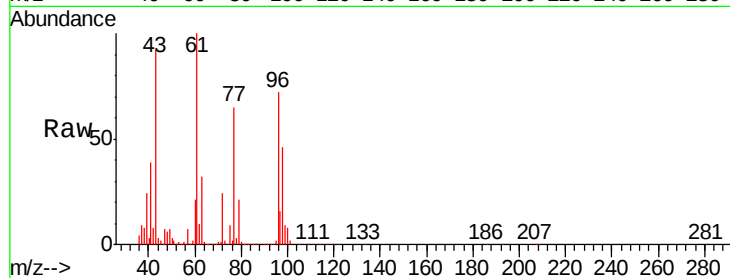
43 100

72 26.4 21.0 31.4

Manual Integrations
APPROVED

apatel

10/9/2018 4:12:12 PM



#26

2,2-Dichloropropane

Concen: 93.63 ug/l

RT: 7.16 min Scan# 863

Delta R.T. -0.00 min

Lab File: VW005891.D

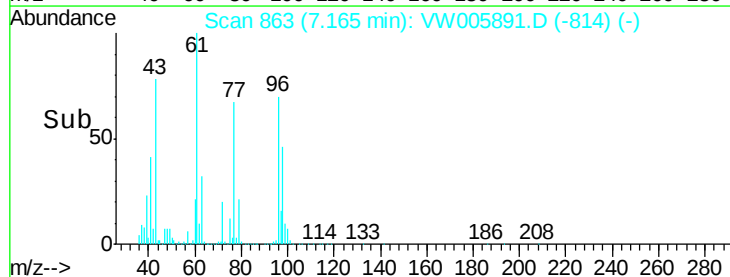
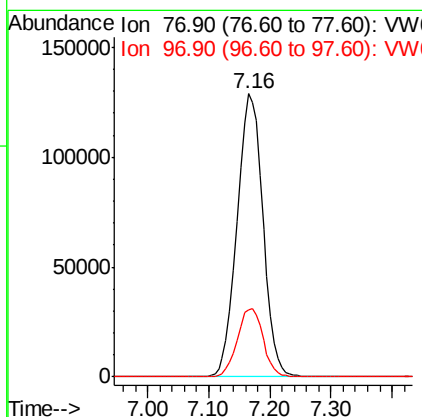
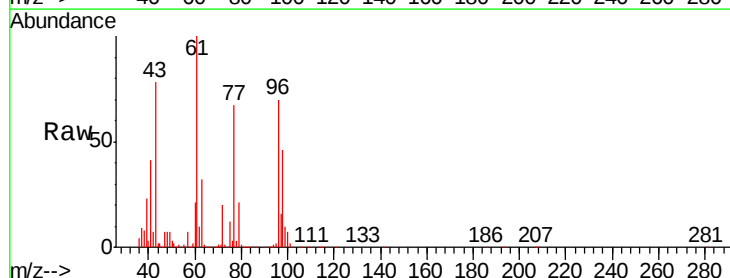
Acq: 08 Oct 2018 12:40

Tgt Ion: 77 Resp: 374981

Ion Ratio Lower Upper

77 100

97 24.0 11.9 35.7





#27

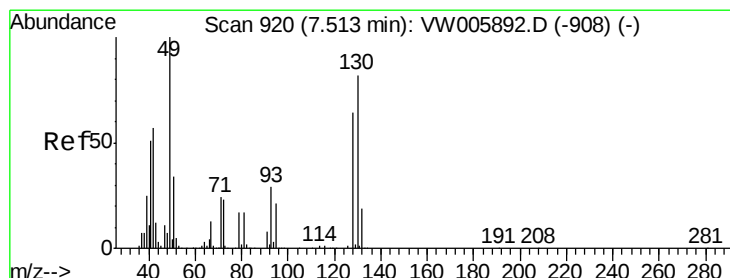
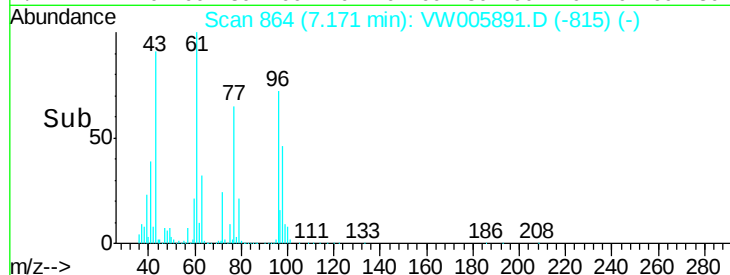
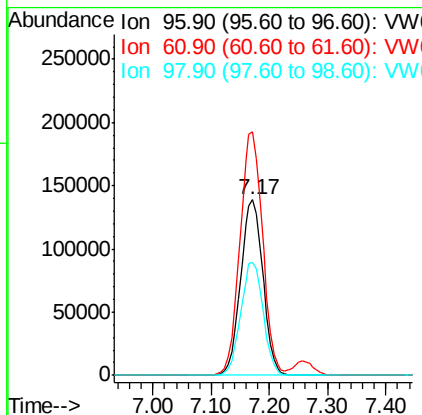
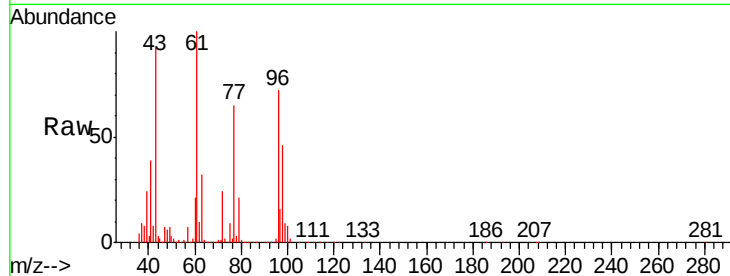
cis-1,2-Dichloroethene
 Concen: 102.29 ug/l
 RT: 7.17 min Scan# 864
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Instrument :
 MSVOA_W
 ClientSampled :
 VSTDIC100

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	367800		
61	140.9	0.0	284.0	
98	64.9	0.0	129.8	

Manual Integrations
 APPROVED

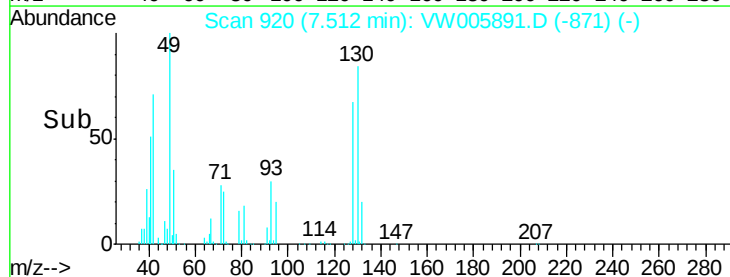
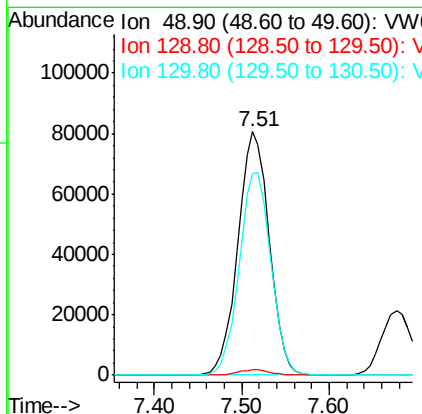
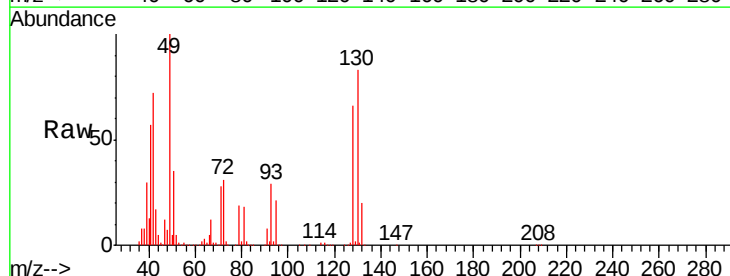
apatel
 10/9/2018 4:12:12 PM

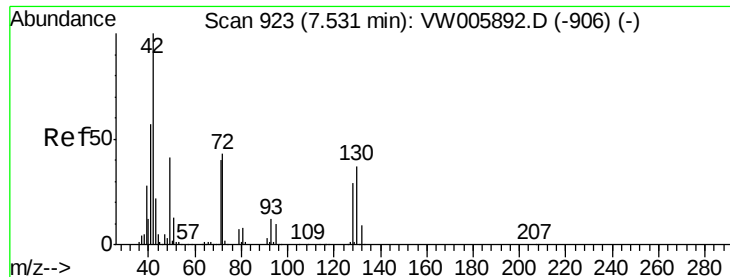


#28

Bromochloromethane
 Concen: 95.55 ug/l
 RT: 7.51 min Scan# 920
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	200707		
129	2.3	0.0	5.0	
130	84.0	66.9	100.3	





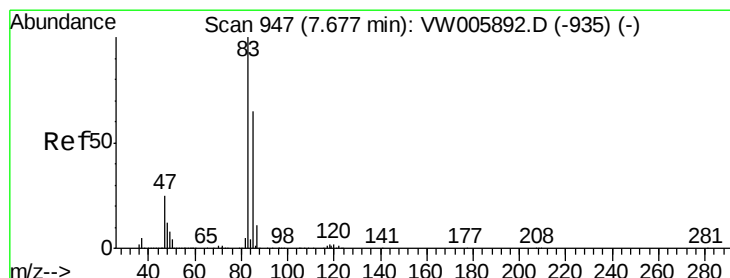
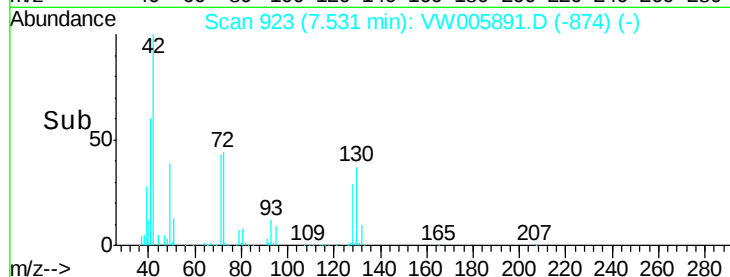
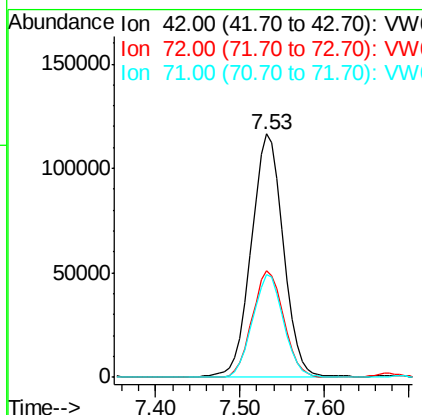
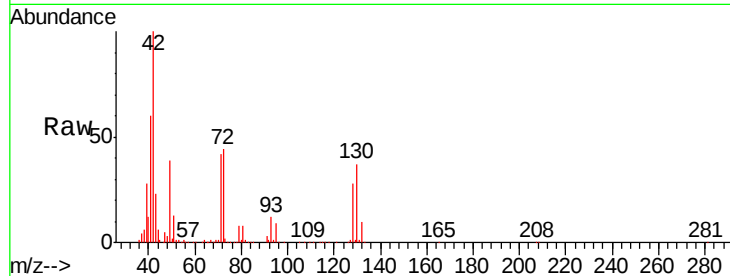
#29
Tetrahydrofuran
Concen: 521.61 ug/l
RT: 7.53 min Scan# 923
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.2	34.6	51.8
71	41.0	32.6	49.0

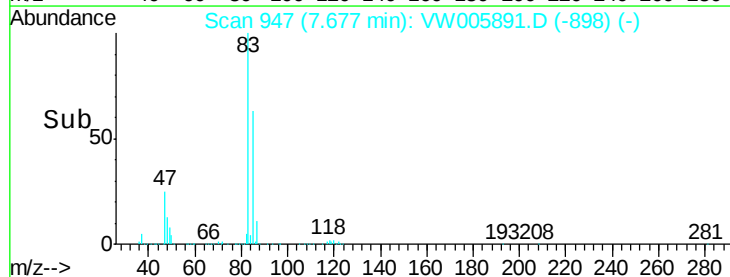
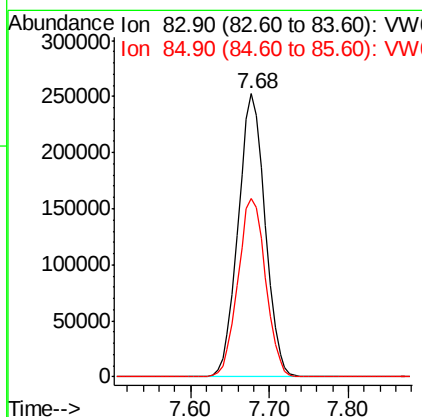
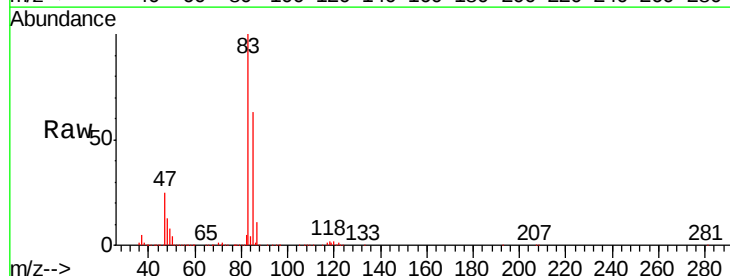
Manual Integrations
APPROVED

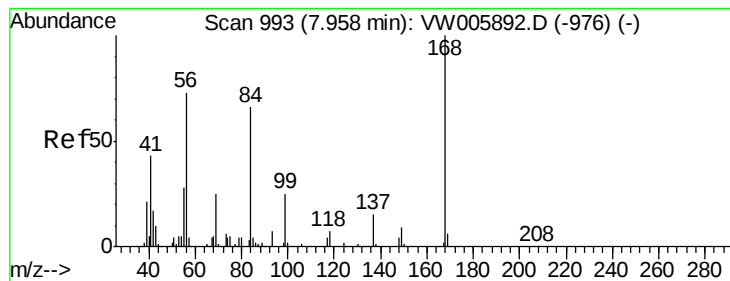
apatel
10/9/2018 4:12:12 PM



#30
Chloroform
Concen: 102.58 ug/l
RT: 7.68 min Scan# 947
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.3	51.6	77.4





#31

Cyclohexane

Concen: 95.64 ug/l

RT: 7.96 min Scan# 993

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

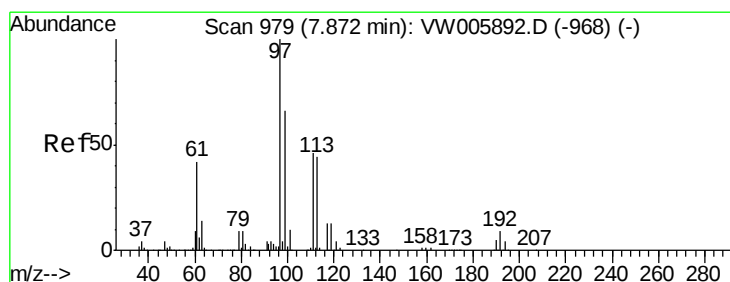
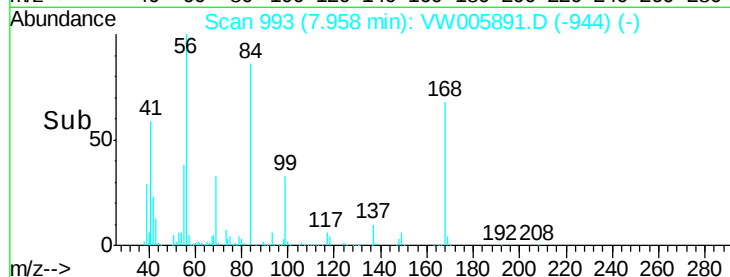
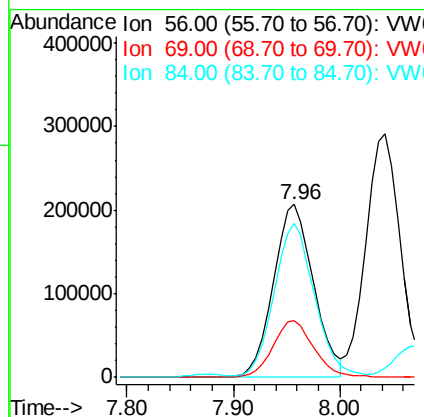
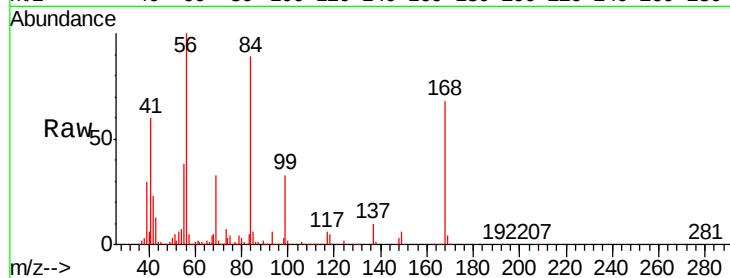
ClientSampled :

VSTDIC100

Tgt Ion:	56	Resp:	538600
Ion	Ratio	Lower	Upper
56	100		
69	33.1	27.9	41.9
84	87.7	72.3	108.5

Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM



#32

1,1,1-Trichloroethane

Concen: 100.85 ug/l

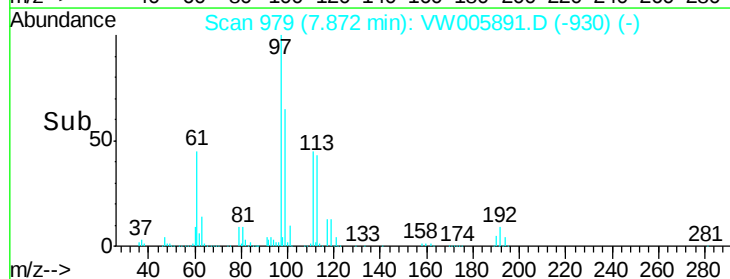
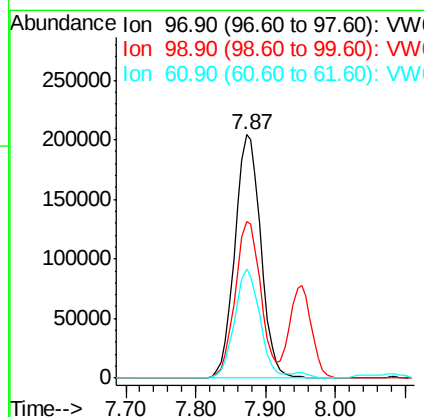
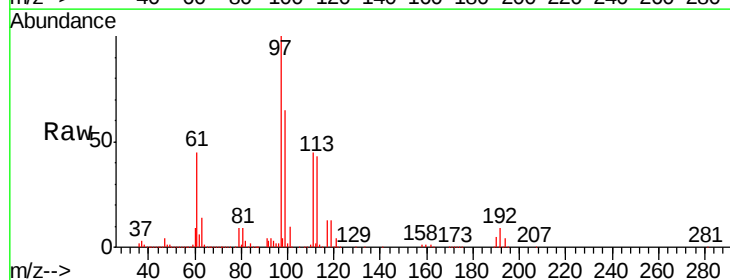
RT: 7.87 min Scan# 979

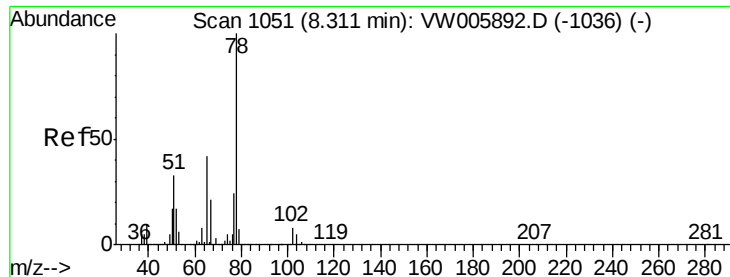
Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Tgt Ion:	97	Resp:	524983
Ion	Ratio	Lower	Upper
97	100		
99	63.7	51.6	77.4
61	43.6	34.5	51.7





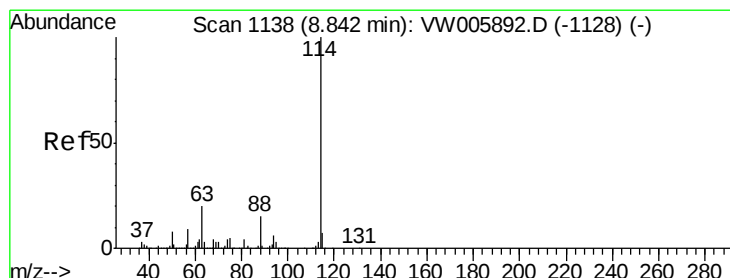
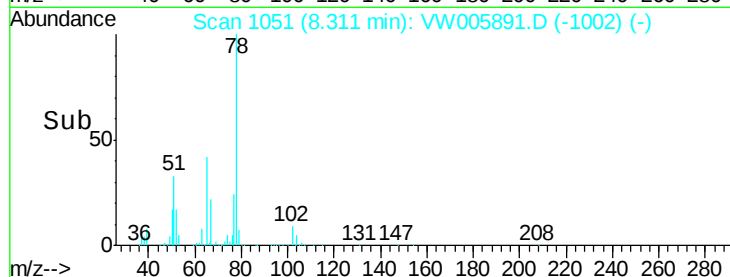
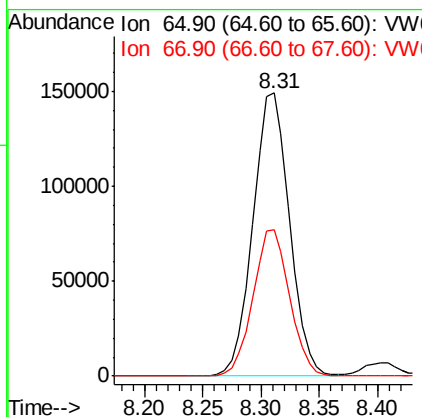
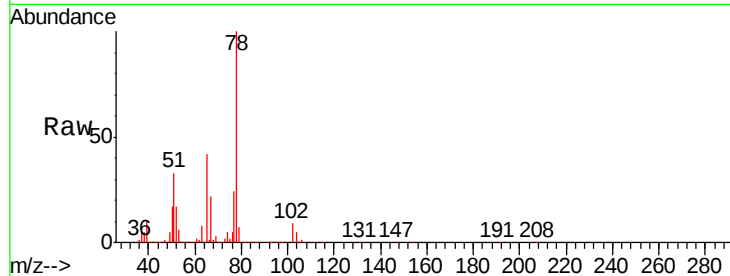
#33
 1,2-Dichloroethane-d4
 Concen: 101.57 ug/l
 RT: 8.31 min Scan# 1051
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Resp	Lower	Upper
65	100	326739		
67	51.9	0.0	104.6	

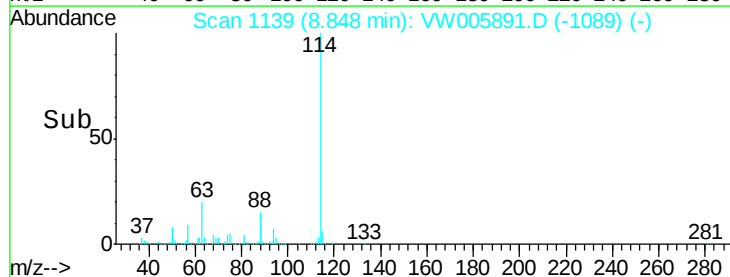
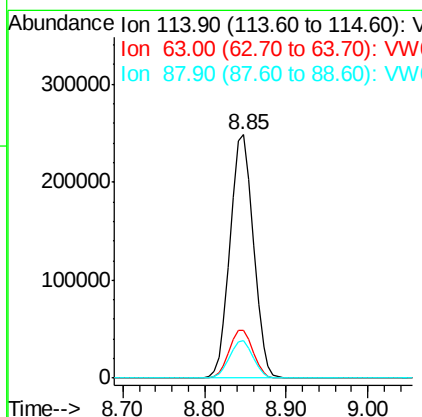
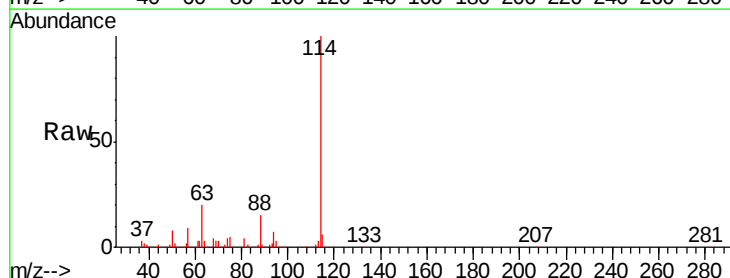
Manual Integrations
 APPROVED

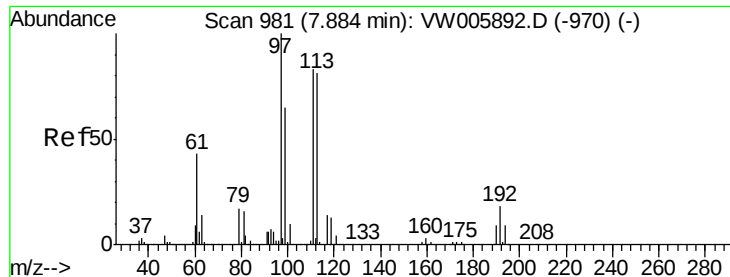
apatel
 10/9/2018 4:12:12 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.85 min Scan# 1139
 Delta R.T. 0.01 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	489261		
63	19.6	0.0	39.2	
88	15.3	0.0	30.8	





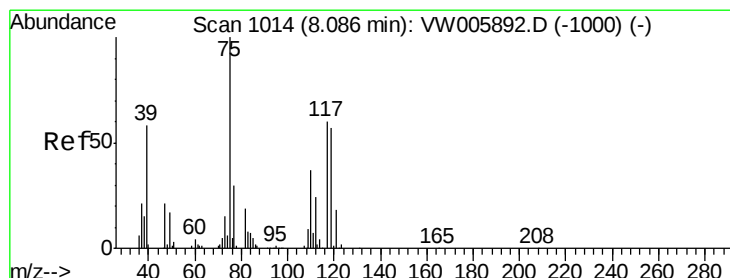
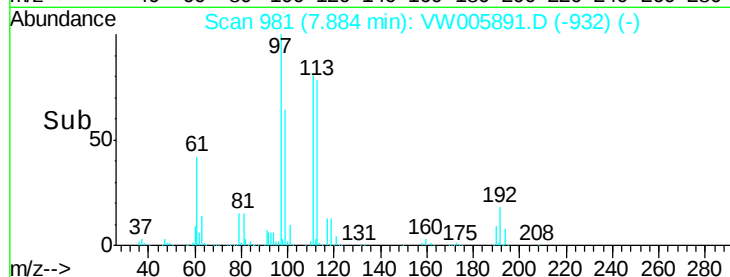
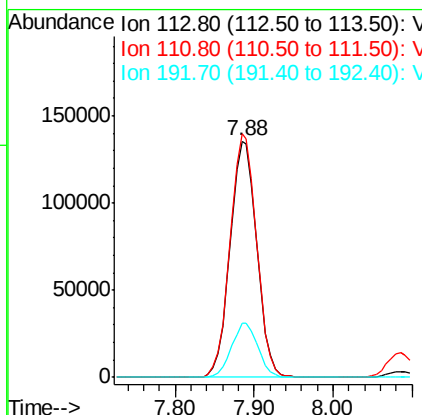
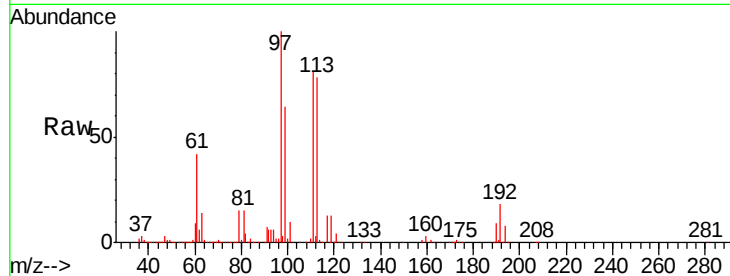
#35
 Dibromofluoromethane
 Concen: 102.04 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Lower	Upper
113	100		
111	102.2	82.0	123.0
192	22.6	18.3	27.5

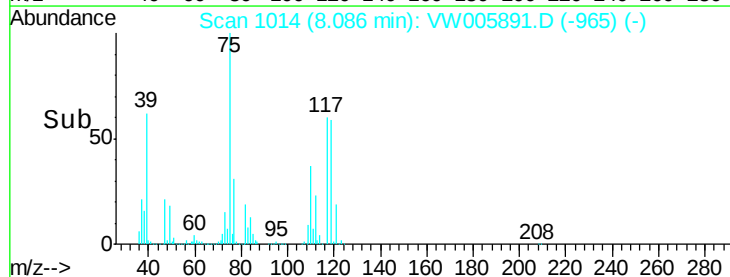
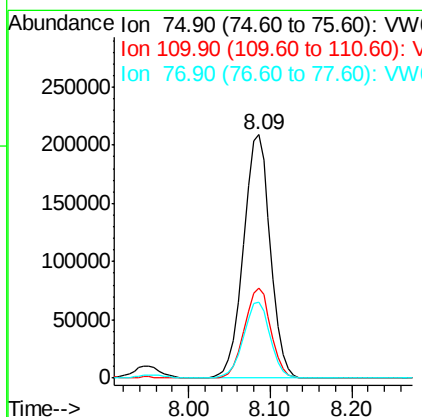
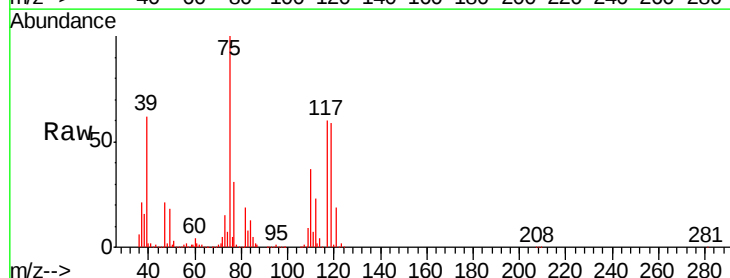
Manual Integrations
 APPROVED

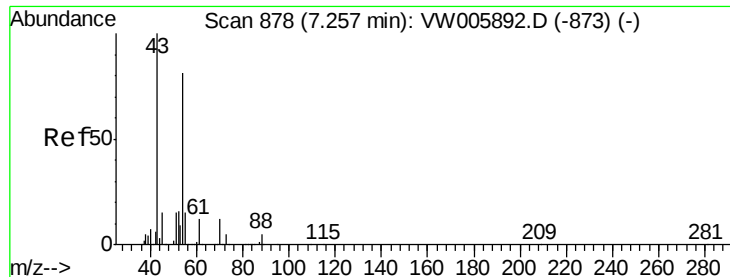
apatel
 10/9/2018 4:12:12 PM



#36
 1,1-Dichloropropene
 Concen: 101.76 ug/l
 RT: 8.09 min Scan# 1014
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
75	100		
110	36.6	18.6	56.0
77	31.1	24.7	37.1





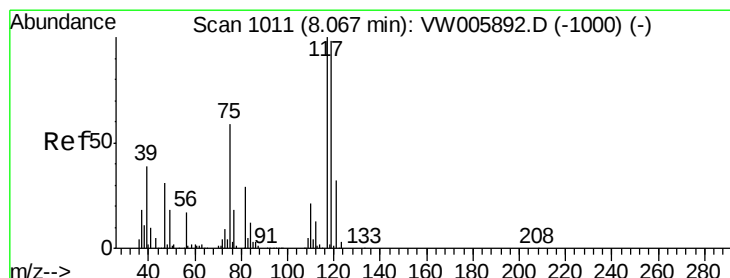
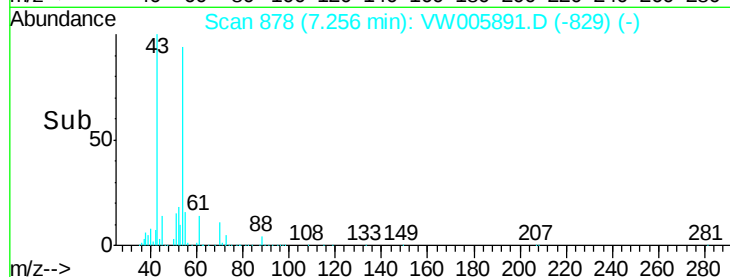
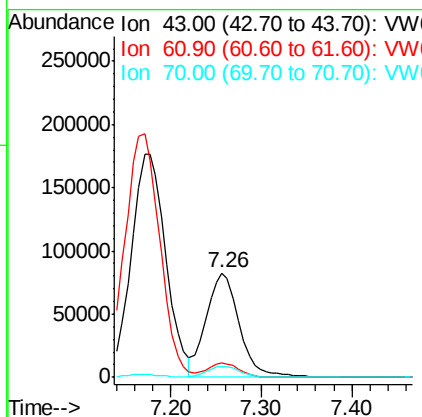
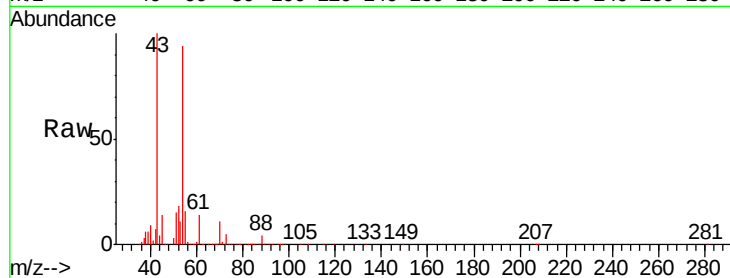
#37
Ethyl Acetate
Concen: 103.85 ug/l
RT: 7.26 min Scan# 878
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampled :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
43	100		
61	13.6	10.6	16.0
70	10.7	8.6	13.0

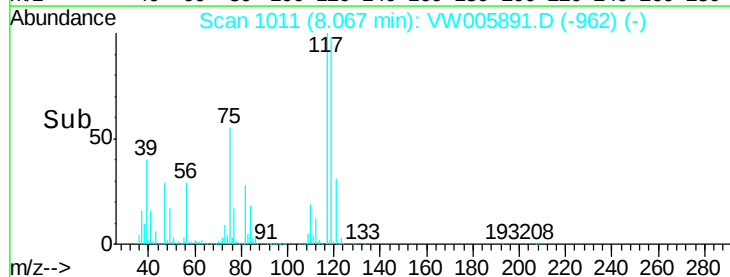
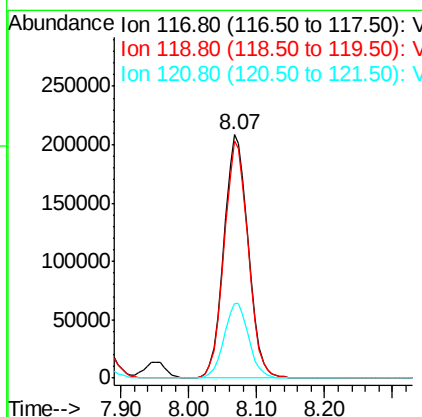
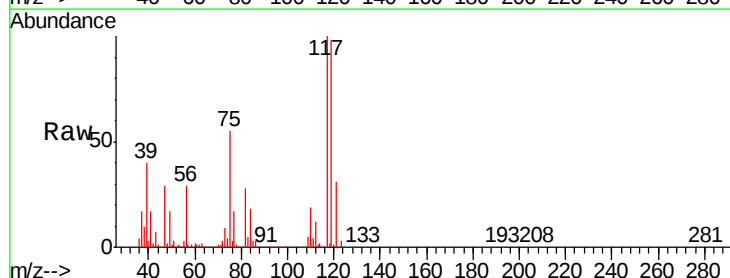
Manual Integrations
APPROVED

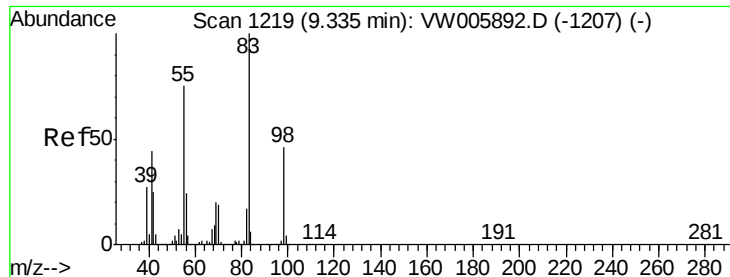
apatel
10/9/2018 4:12:12 PM



#38
Carbon Tetrachloride
Concen: 102.54 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
117	100		
119	97.6	78.6	117.8
121	30.6	25.3	37.9





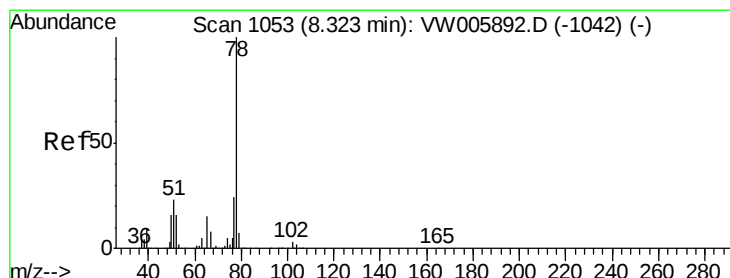
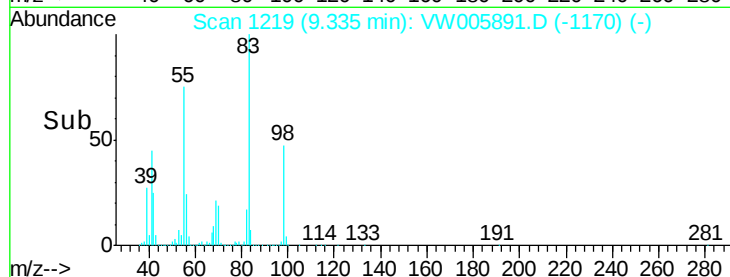
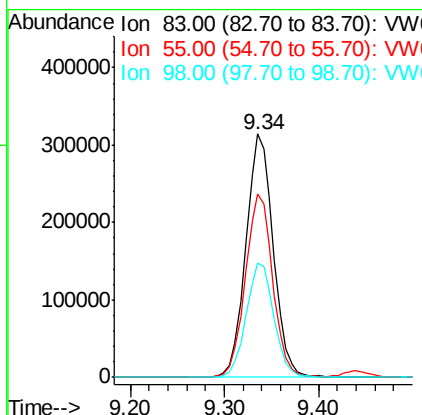
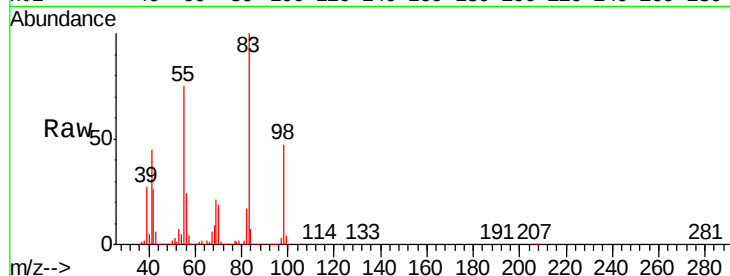
#39
Methylcyclohexane
Concen: 103.23 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
83	100		
55	75.3	59.8	89.6
98	46.7	37.1	55.7

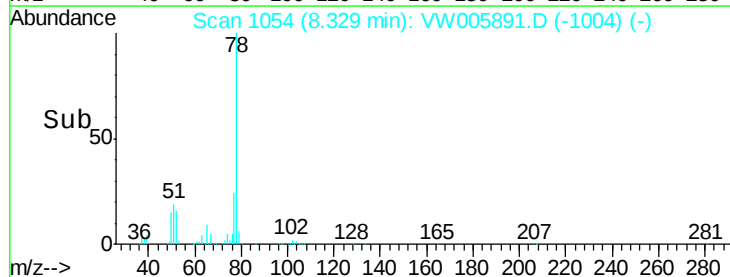
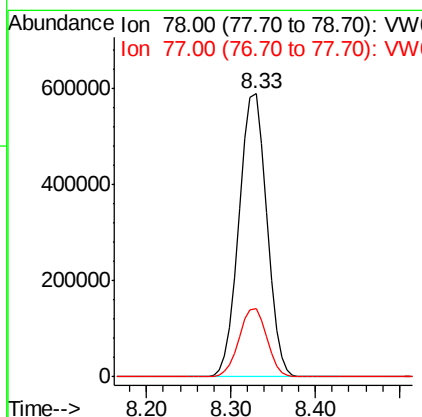
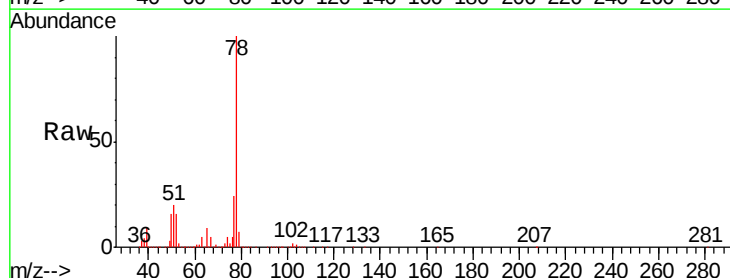
Manual Integrations
APPROVED

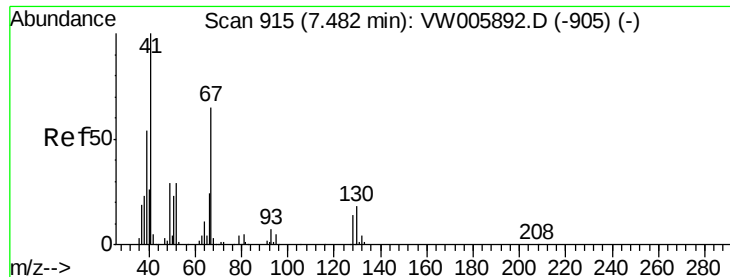
apatel
10/9/2018 4:12:12 PM



#40
Benzene
Concen: 102.07 ug/l
RT: 8.33 min Scan# 1054
Delta R.T. 0.01 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.1	28.7





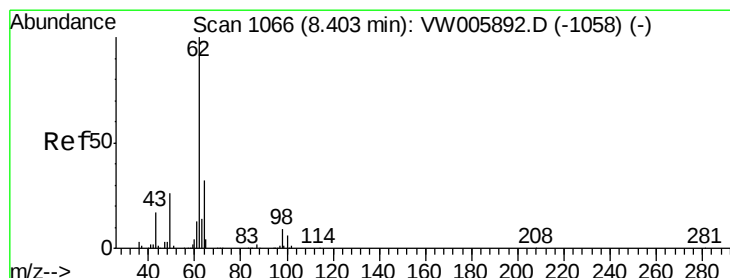
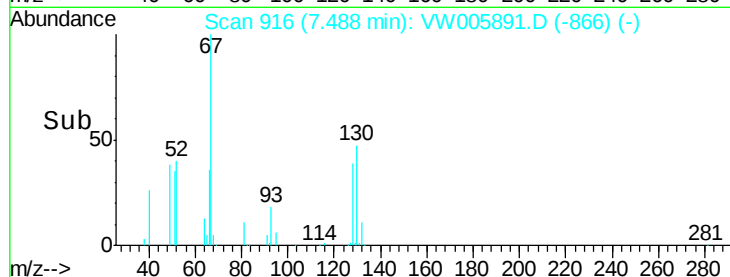
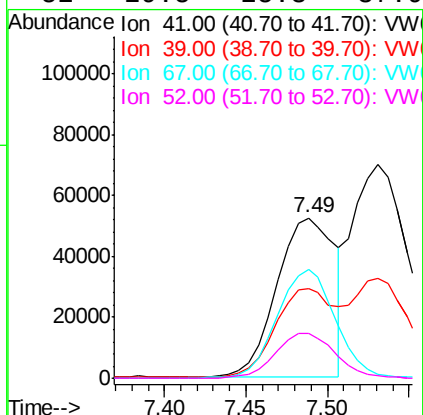
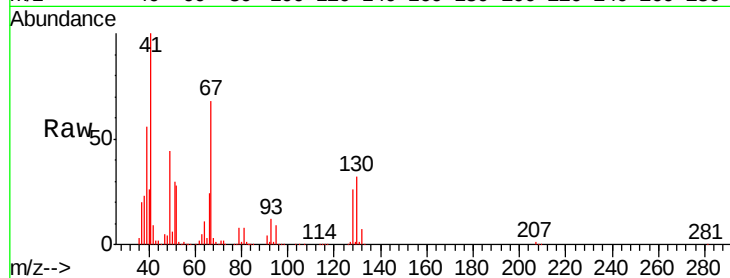
#41
Methacrylonitrile
Concen: 103.68 ug/l
RT: 7.49 min Scan# 916
Delta R.T. 0.01 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
41	100		
39	56.7	45.0	67.4
67	68.3	55.8	83.8
52	29.5	25.3	37.9

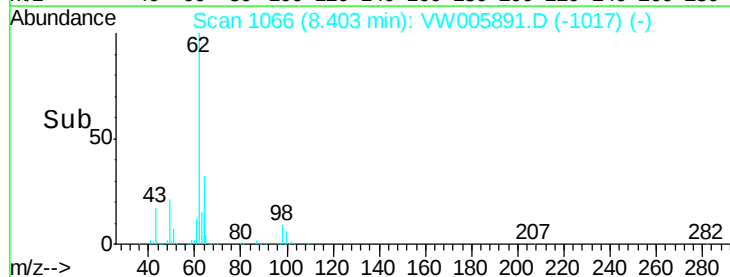
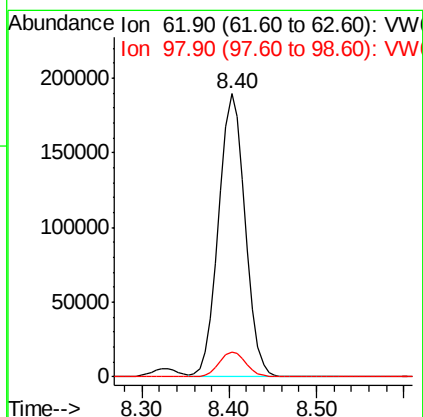
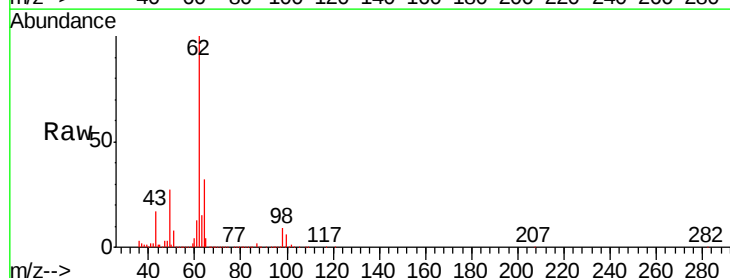
Manual Integrations
APPROVED

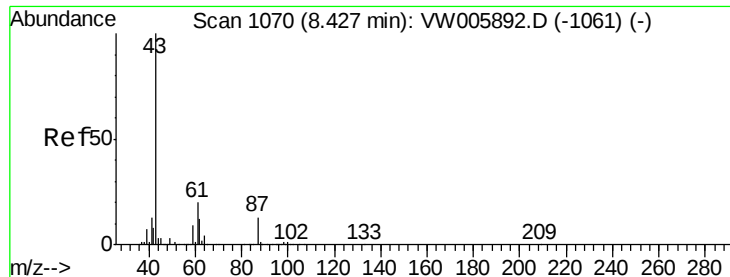
apatel
10/9/2018 4:12:12 PM



#42
1,2-Dichloroethane
Concen: 102.89 ug/l
RT: 8.40 min Scan# 1066
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.0	0.0	18.0





#43

Isopropyl Acetate

Concen: 104.89 ug/l

RT: 8.43 min Scan# 1070

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

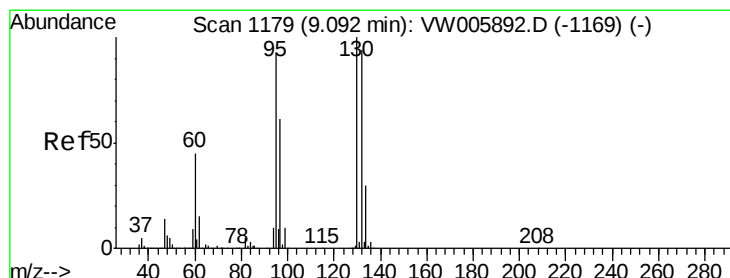
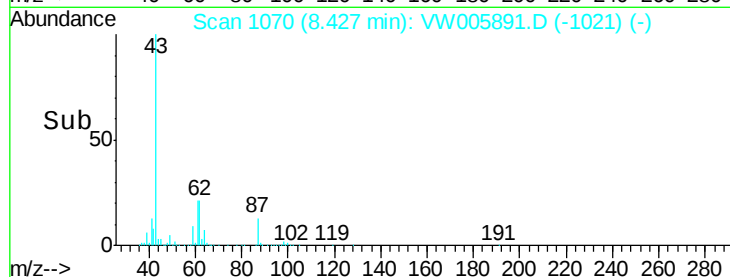
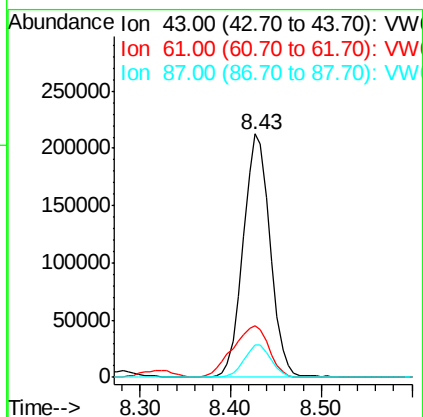
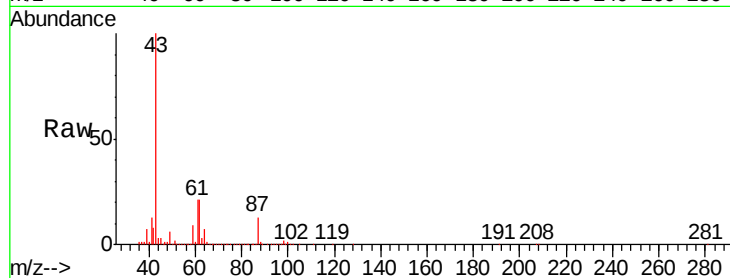
ClientSampleId :

VSTDICC100

Tgt Ion:	43	Resp:	434968
Ion	Ratio	Lower	Upper
43	100		
61	28.7	23.1	34.7
87	13.4	10.7	16.1

Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM



#44

Trichloroethene

Concen: 103.17 ug/l

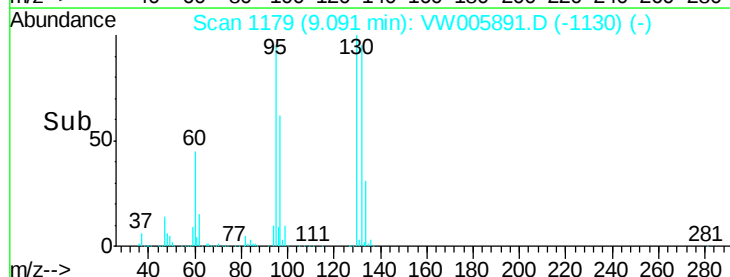
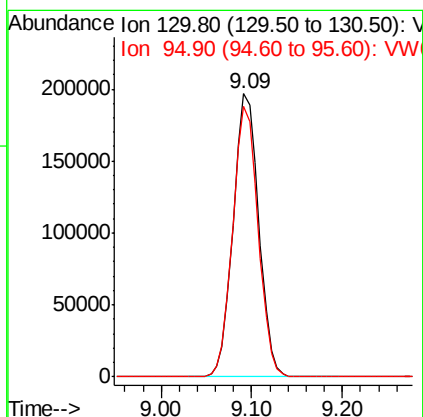
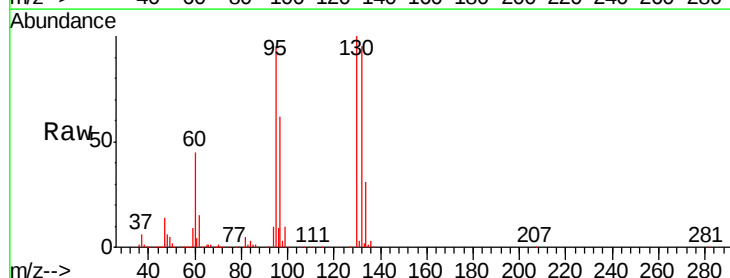
RT: 9.09 min Scan# 1179

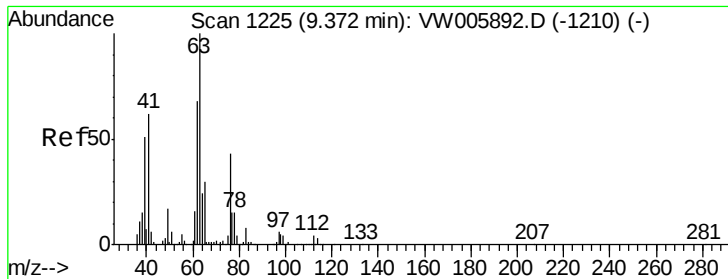
Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Tgt Ion:	130	Resp:	384091
Ion	Ratio	Lower	Upper
130	100		
95	95.4	0.0	185.6





#45

1,2-Dichloropropane

Concen: 101.54 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

ClientSampled :

VSTDIC100

Tgt Ion: 63 Resp: 326107

Ion Ratio Lower Upper

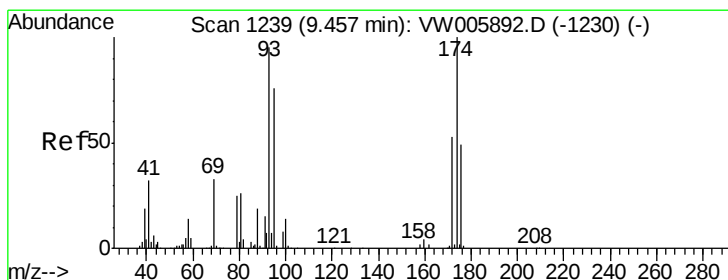
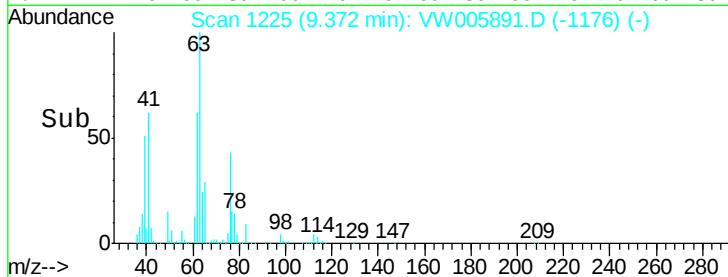
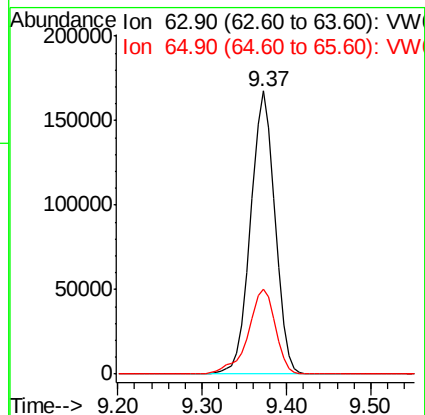
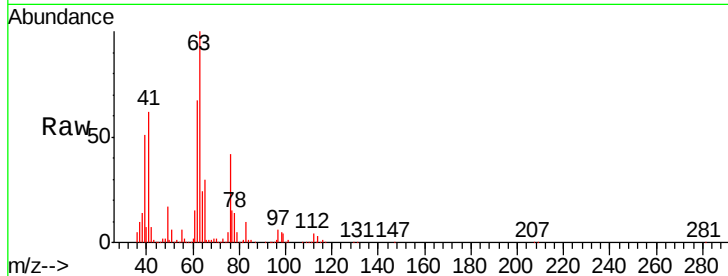
63 100

65 30.0 24.3 36.5

Manual Integrations
APPROVED

apatel

10/9/2018 4:12:12 PM



#46

Dibromomethane

Concen: 103.45 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.01 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

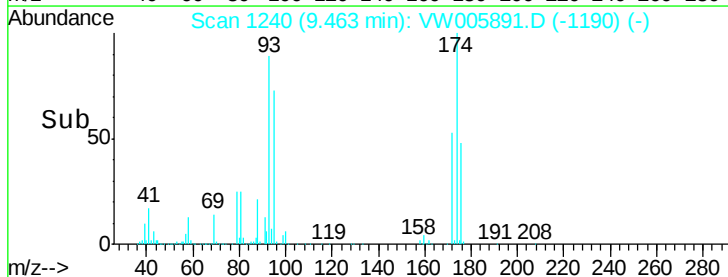
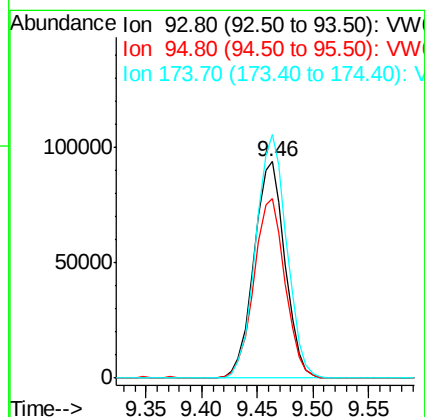
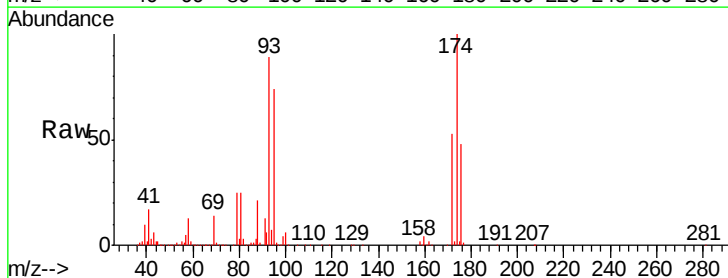
Tgt Ion: 93 Resp: 182604

Ion Ratio Lower Upper

93 100

95 82.9 66.6 99.8

174 111.8 90.4 135.6





#47

Bromodichloromethane

Concen: 103.31 ug/l

RT: 9.65 min Scan# 1270

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

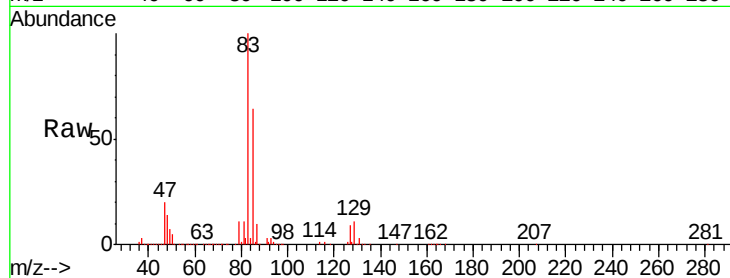
ClientSampleId :

VSTDIC100

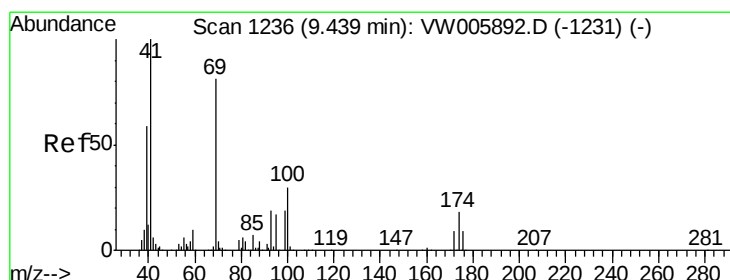
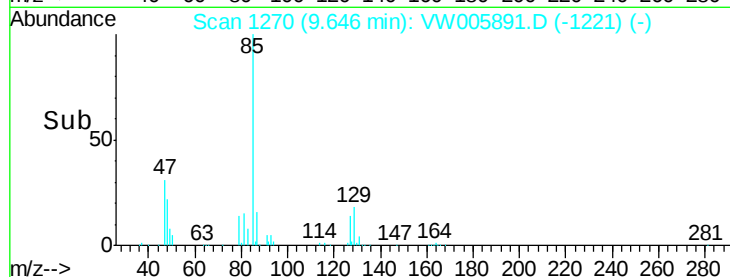
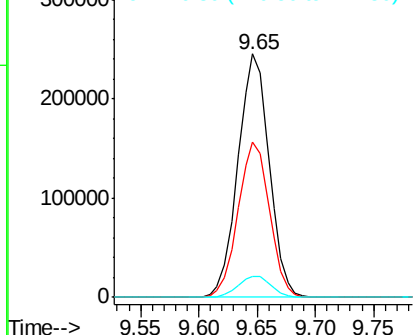
Tgt Ion:	83	Resp:	458880
Ion	Ratio	Lower	Upper
83	100		
85	63.9	53.0	79.6
127	8.7	7.4	11.0

Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM



Abundance Ion 82.90 (82.60 to 83.60): VW
Ion 84.90 (84.60 to 85.60): VW
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 105.08 ug/l

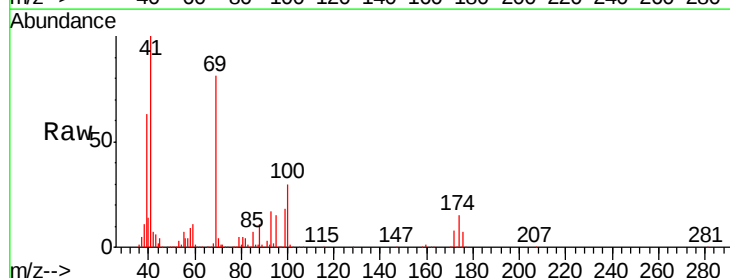
RT: 9.44 min Scan# 1236

Delta R.T. -0.00 min

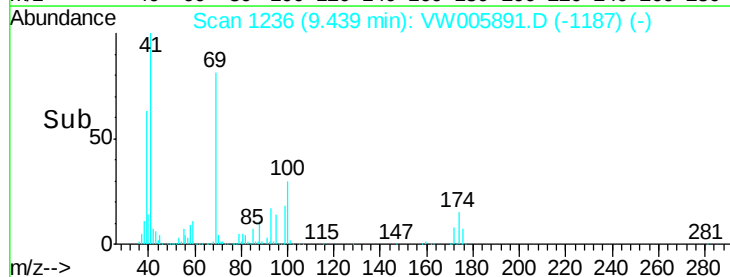
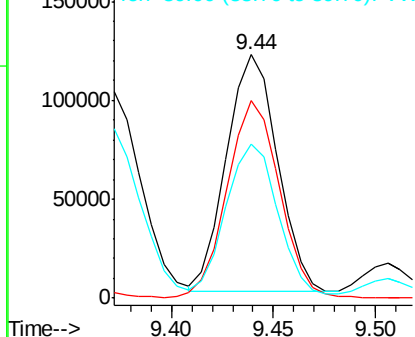
Lab File: VW005891.D

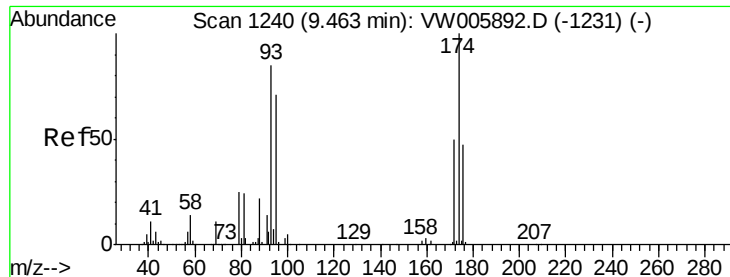
Acq: 08 Oct 2018 12:40

Tgt Ion:	41	Resp:	207595
Ion	Ratio	Lower	Upper
41	100		
69	85.5	68.7	103.1
39	63.6	50.0	75.0



Abundance Ion 41.00 (40.70 to 41.70): VW
Ion 69.00 (68.70 to 69.70): VW
Ion 39.00 (38.70 to 39.70): VW





#49

1,4-Dioxane

Concen: 2103.11 ug/l

RT: 9.45 min Scan# 1238

Delta R.T. -0.01 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

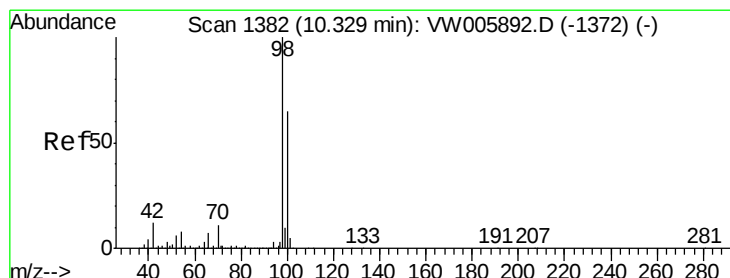
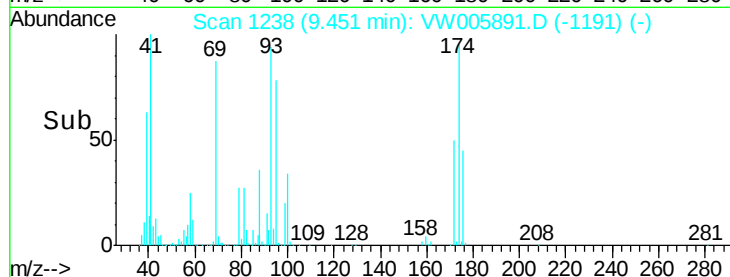
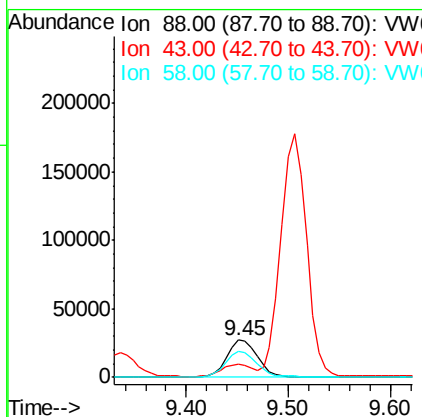
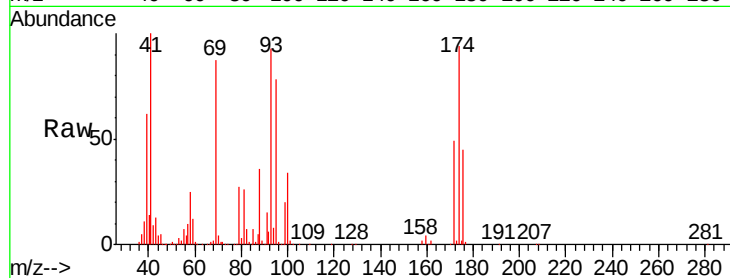
ClientSampleId :

VSTDIC100

Tgt Ion	Ratio	Lower	Upper
88	100		
43	32.9	0.0	0.0#
58	73.2	57.7	86.5

Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM



#50

Toluene-d8

Concen: 102.21 ug/l

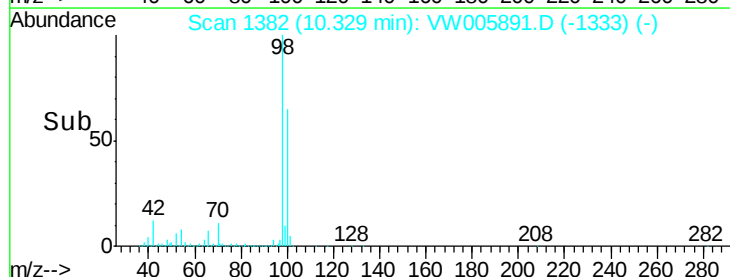
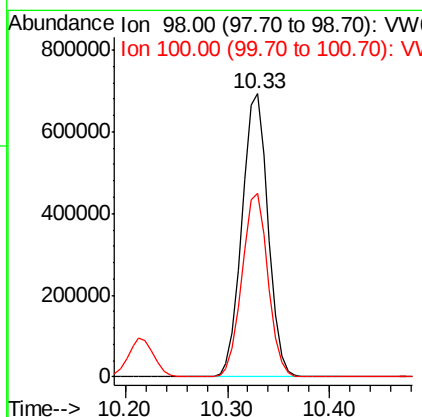
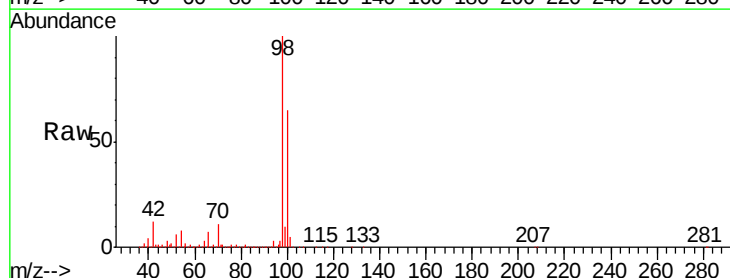
RT: 10.33 min Scan# 1382

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.9	77.9





#51

4-Methyl-2-Pentanone

Concen: 523.63 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC100

Tgt Ion: 43 Resp: 1057458

Ion Ratio Lower Upper

43 100

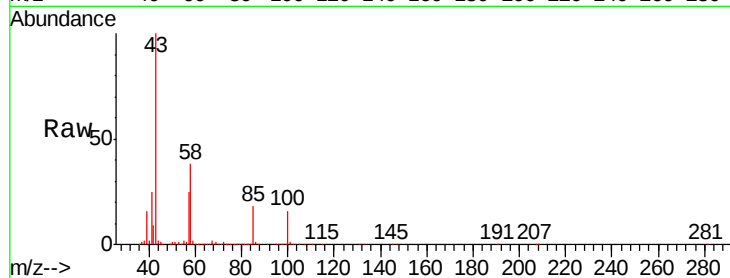
58 38.2 30.2 45.4

Manual Integrations

APPROVED

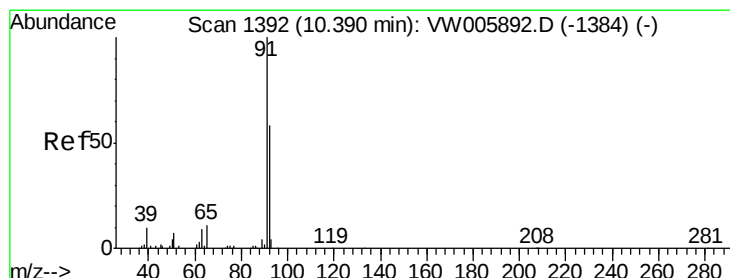
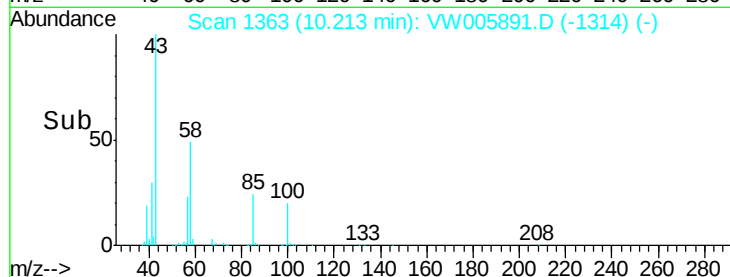
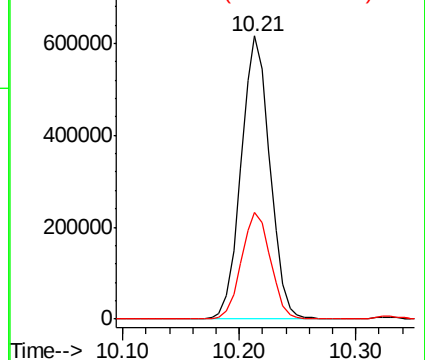
apatel

10/9/2018 4:12:12 PM



Abundance Ion 43.00 (42.70 to 43.70): VW

Ion 58.00 (57.70 to 58.70): VW



#52

Toluene

Concen: 102.58 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. -0.00 min

Lab File: VW005891.D

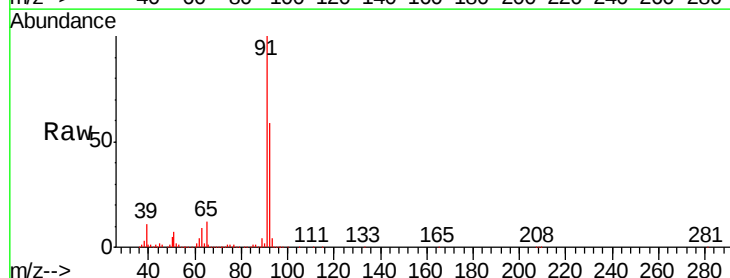
Acq: 08 Oct 2018 12:40

Tgt Ion: 92 Resp: 864690

Ion Ratio Lower Upper

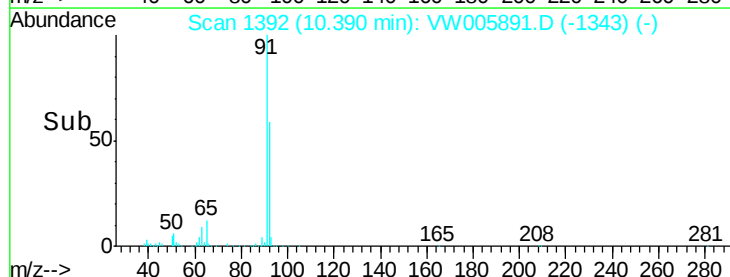
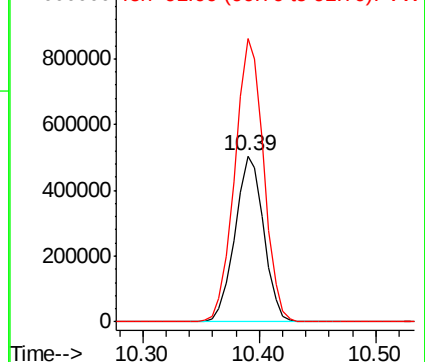
92 100

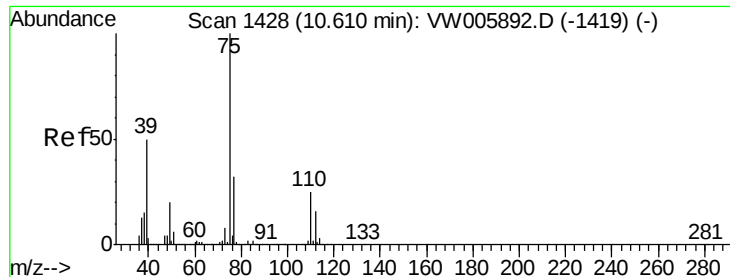
91 171.5 138.2 207.4



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW





#53

t-1,3-Dichloropropene

Concen: 103.88 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC100

Tgt Ion: 75 Resp: 482234

Ion Ratio Lower Upper

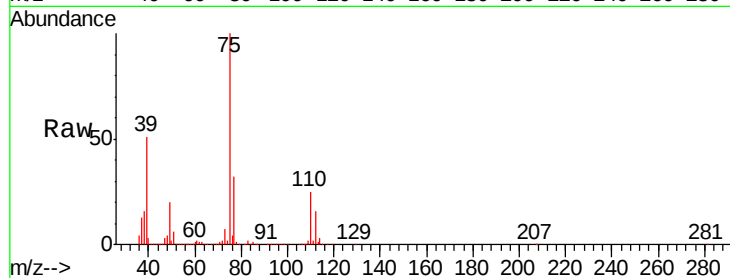
75 100

77 31.8 25.4 38.2

Manual Integrations
APPROVED

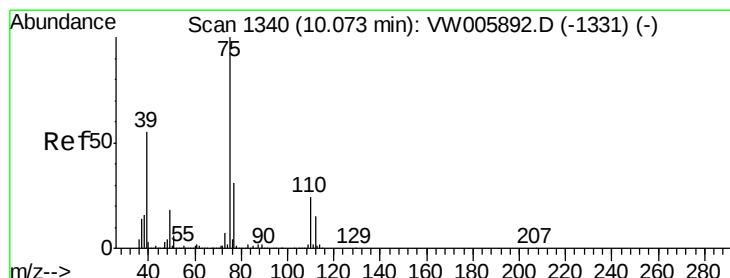
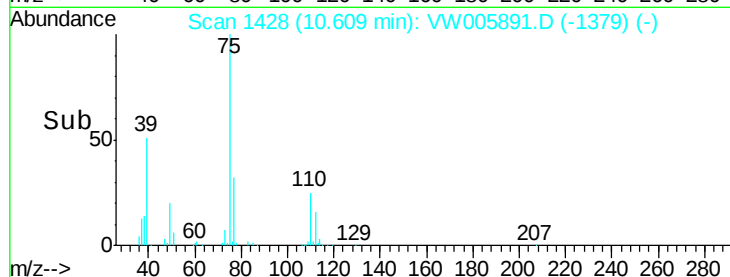
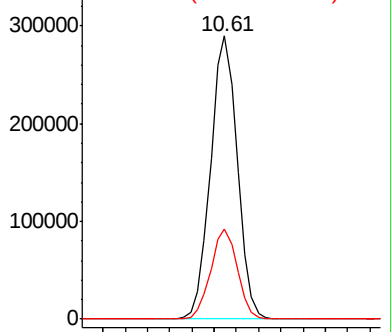
apatel

10/9/2018 4:12:12 PM



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW



#54

cis-1,3-Dichloropropene

Concen: 102.76 ug/l

RT: 10.07 min Scan# 1340

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

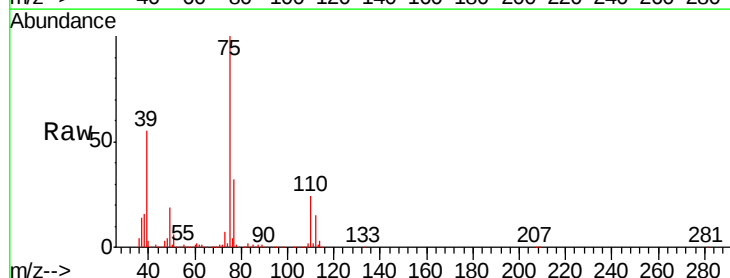
Tgt Ion: 75 Resp: 536228

Ion Ratio Lower Upper

75 100

77 31.5 24.6 37.0

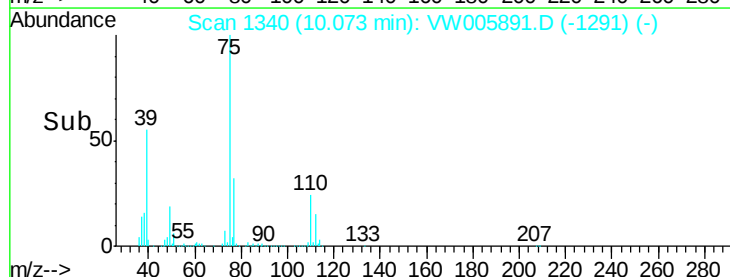
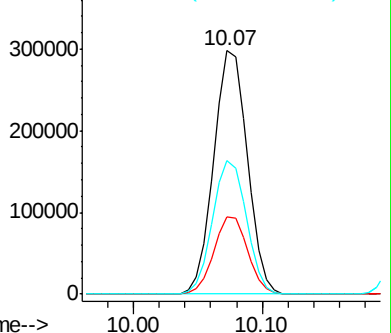
39 54.7 44.2 66.4



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

Ion 39.00 (38.70 to 39.70): VW





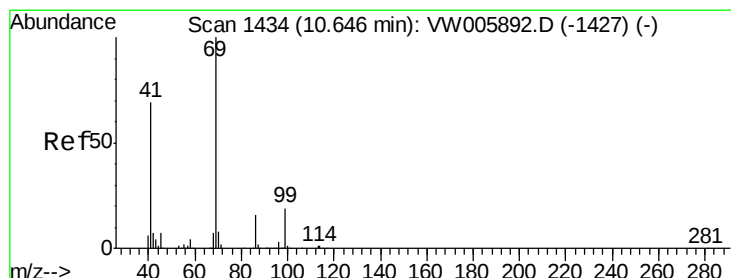
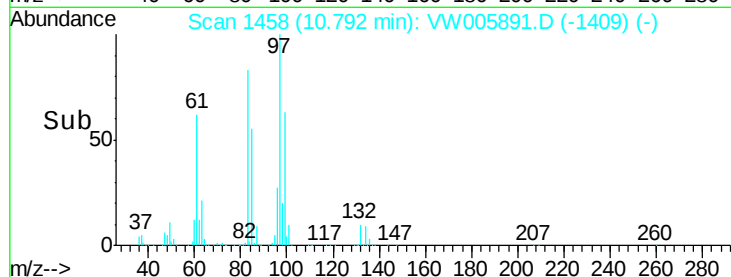
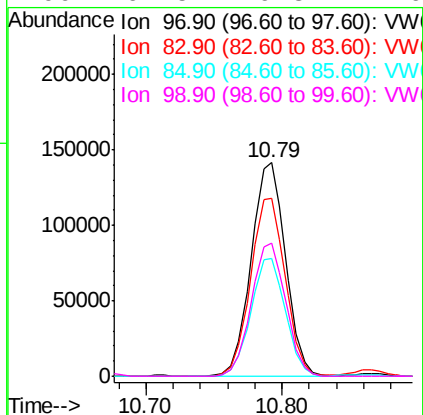
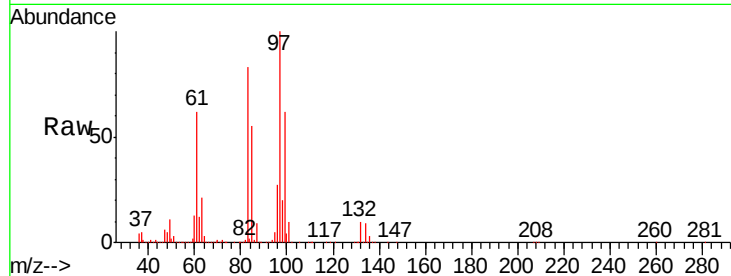
#55
 1,1,2-Trichloroethane
 Concen: 102.23 ug/l
 RT: 10.79 min Scan# 1458
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Instrument :
 MSVOA_W
 ClientSampled :
 VSTDIC100

Tgt Ion:	97	Resp:	249947
Ion	Ratio	Lower	Upper
97	100		
83	83.1	66.9	100.3
85	55.1	43.4	65.0
99	62.5	49.8	74.6

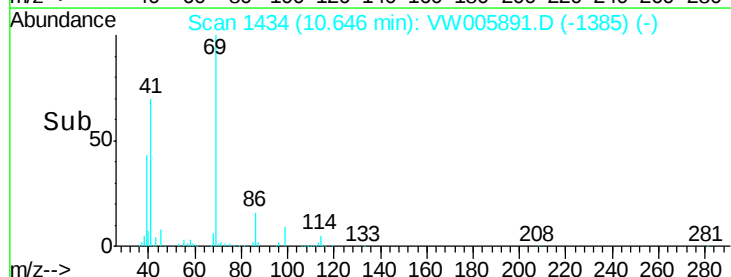
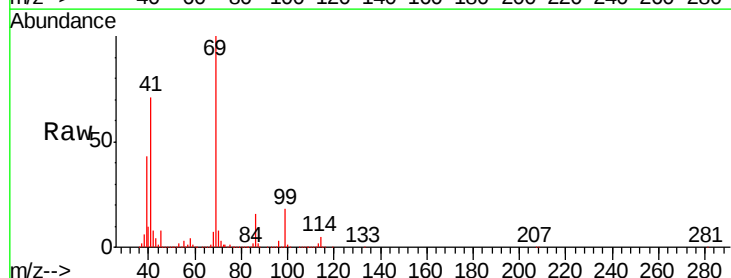
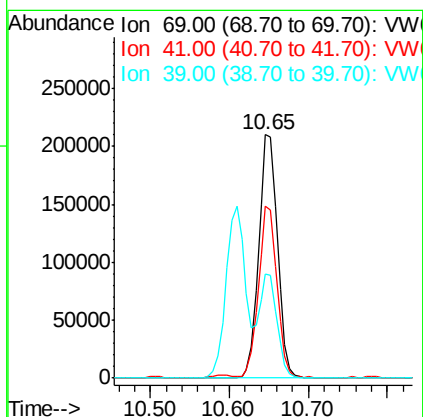
Manual Integrations
 APPROVED

apatel
 10/9/2018 4:12:12 PM



#56
 Ethyl methacrylate
 Concen: 104.86 ug/l
 RT: 10.65 min Scan# 1434
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Tgt Ion:	69	Resp:	345557
Ion	Ratio	Lower	Upper
69	100		
41	69.1	56.0	84.0
39	41.6	33.5	50.3





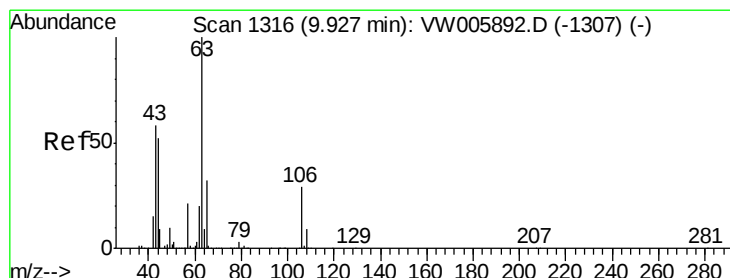
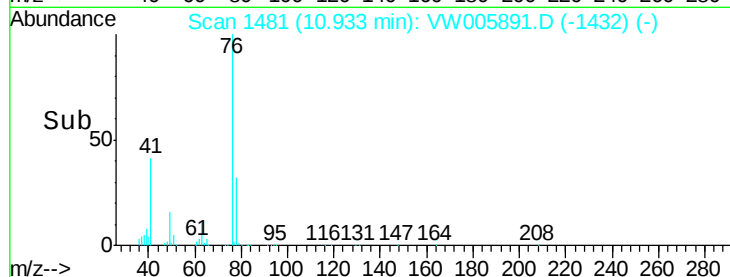
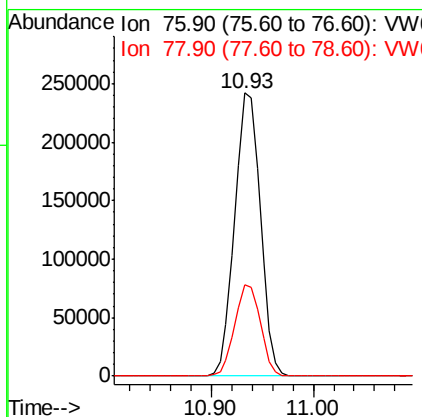
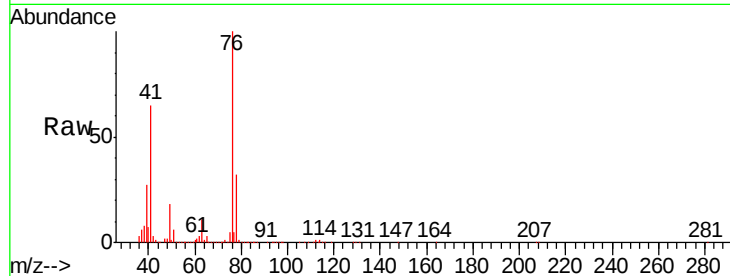
#57
 1,3-Dichloropropane
 Concen: 102.47 ug/l
 RT: 10.93 min Scan# 1481
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Instrument :
 MSVOA_W
 ClientSampled :
 VSTDIC100

Tgt Ion: 76 Resp: 421474
 Ion Ratio Lower Upper
 76 100
 78 32.2 25.8 38.6

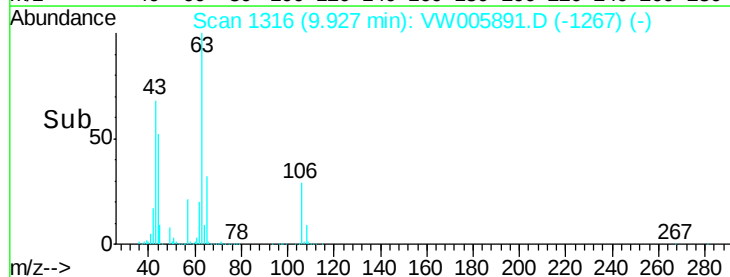
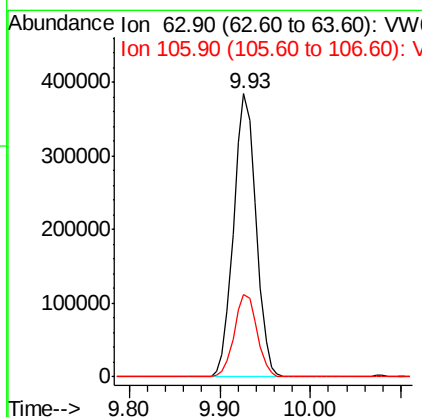
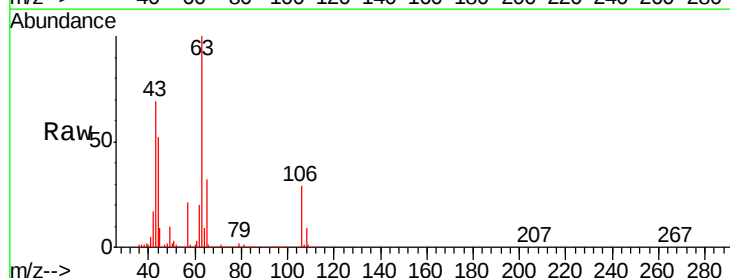
Manual Integrations
 APPROVED

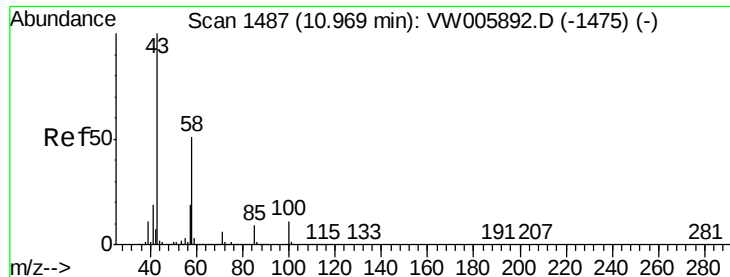
apatel
 10/9/2018 4:12:12 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 490.99 ug/l
 RT: 9.93 min Scan# 1316
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Tgt Ion: 63 Resp: 658332
 Ion Ratio Lower Upper
 63 100
 106 29.4 23.6 35.4





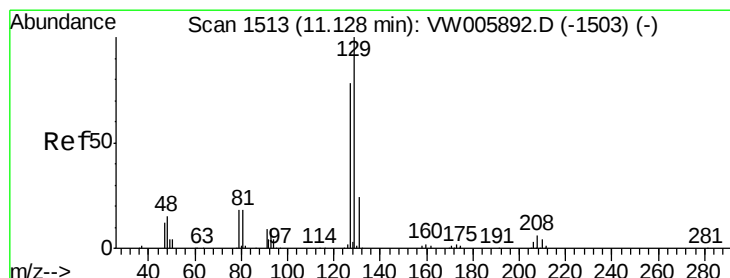
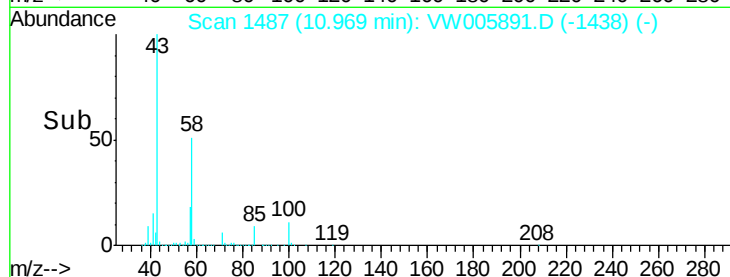
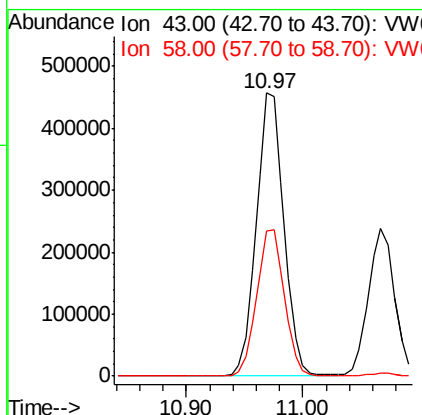
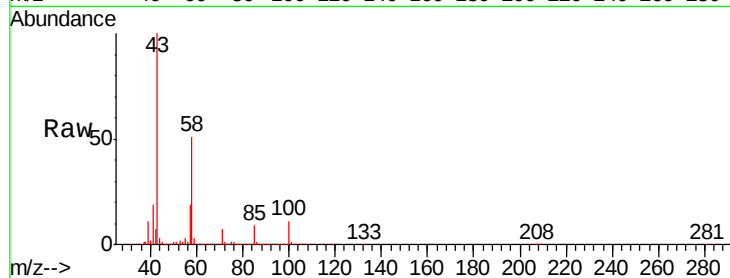
#59
2-Hexanone
Concen: 516.59 ug/l
RT: 10.97 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampleId :
VSTDICC100

Tgt Ion: 43 Resp: 748023
Ion Ratio Lower Upper
43 100
58 52.2 25.7 77.1

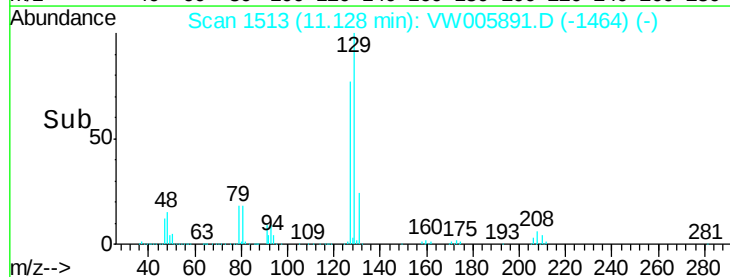
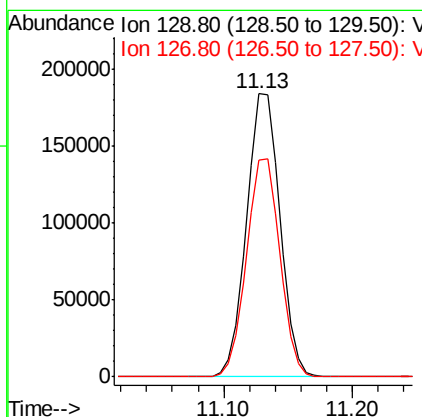
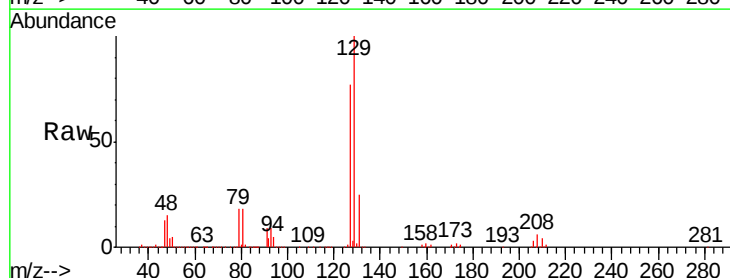
Manual Integrations
APPROVED

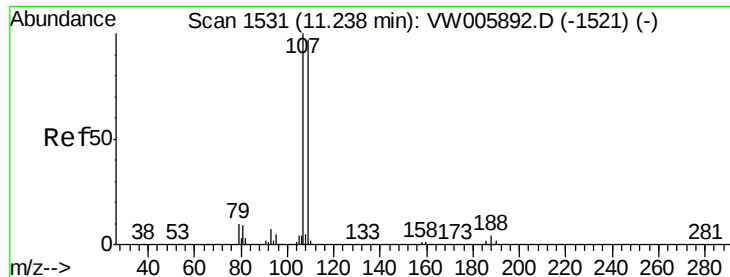
apatel
10/9/2018 4:12:12 PM



#60
Dibromochloromethane
Concen: 104.26 ug/l
RT: 11.13 min Scan# 1513
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion: 129 Resp: 328954
Ion Ratio Lower Upper
129 100
127 77.1 38.5 115.5





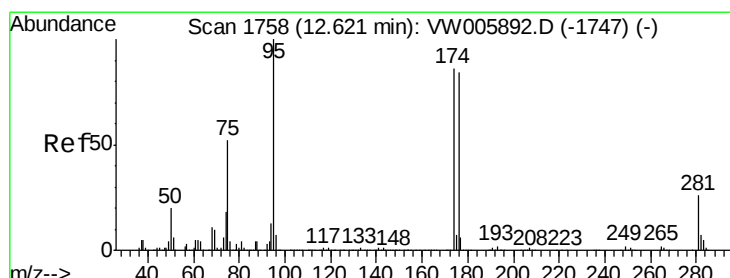
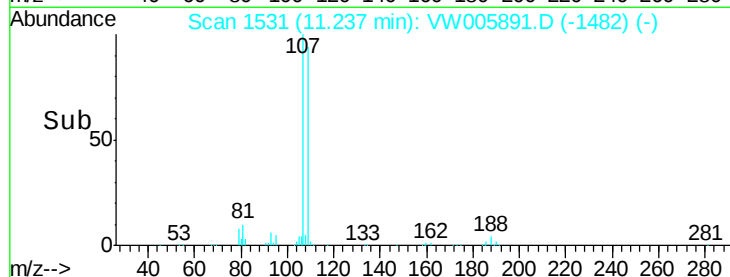
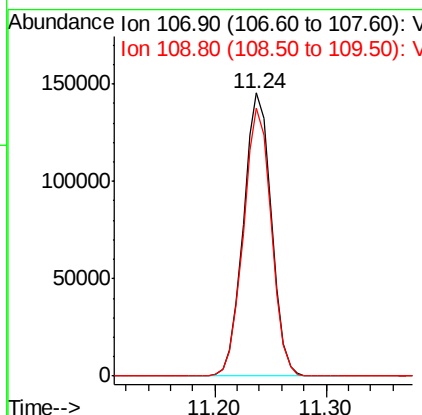
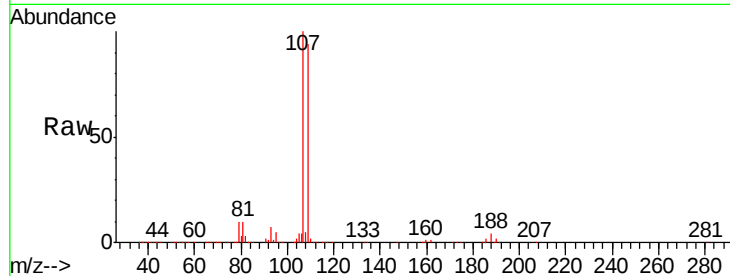
#61
 1,2-Dibromoethane
 Concen: 103.71 ug/l
 RT: 11.24 min Scan# 1531
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Resp	Lower	Upper
107	100	253388		
109	94.3	75.8	113.8	

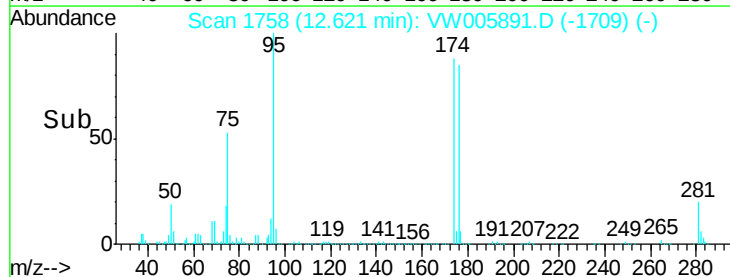
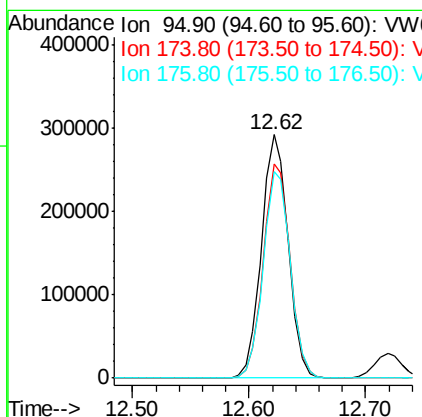
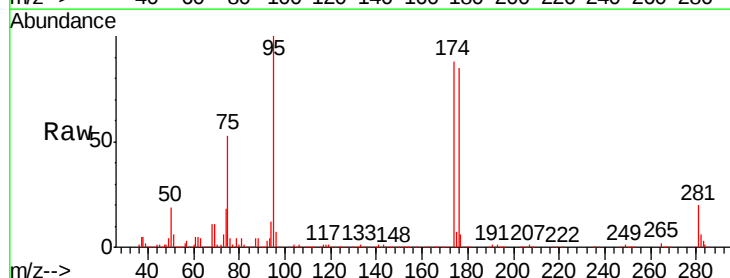
Manual Integrations
 APPROVED

apatel
 10/9/2018 4:12:12 PM



#62
 4-Bromofluorobenzene
 Concen: 101.71 ug/l
 RT: 12.62 min Scan# 1758
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Resp	Lower	Upper
95	100	465085		
174	88.4	0.0	176.4	
176	86.0	0.0	173.0	





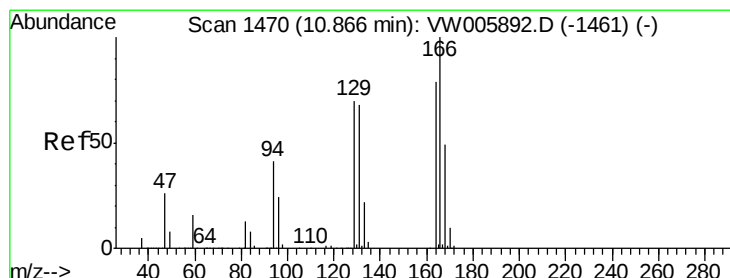
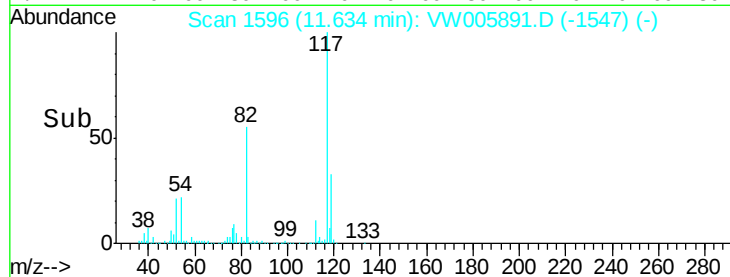
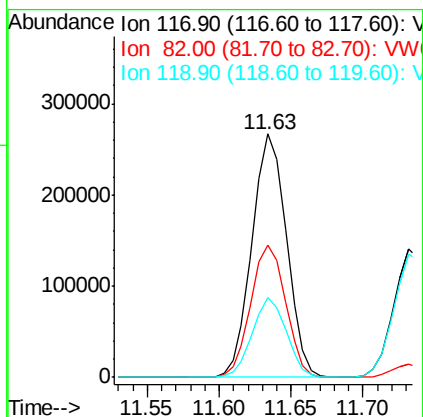
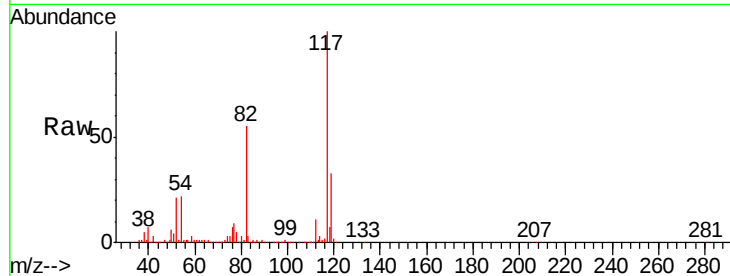
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
117	100		
82	54.5	43.5	65.3
119	32.6	25.4	38.2

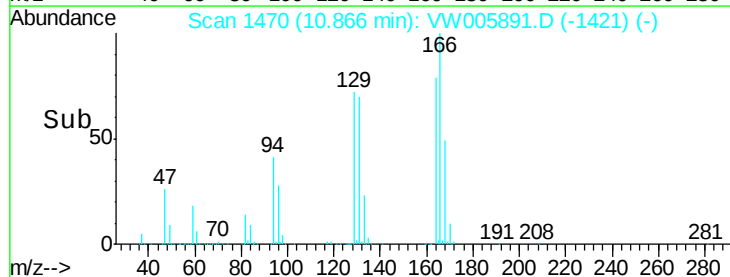
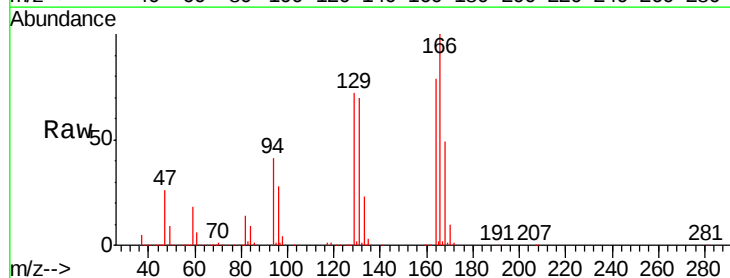
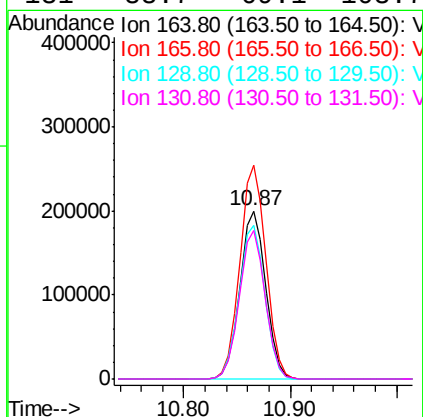
Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM



#64
Tetrachloroethene
Concen: 103.66 ug/l
RT: 10.87 min Scan# 1470
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.3	101.5	152.3
129	91.4	71.1	106.7
131	88.7	69.1	103.7





#65

Chlorobenzene

Concen: 102.34 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC100

Tgt Ion:112 Resp: 970546

Ion Ratio Lower Upper

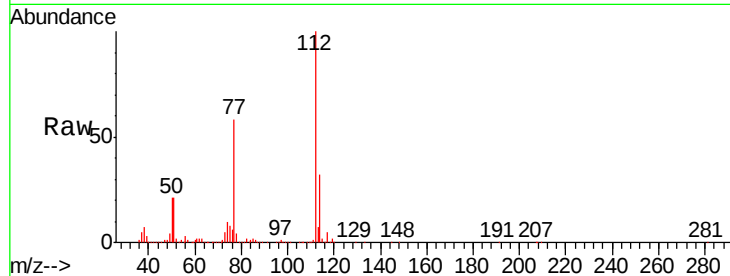
112 100

114 31.9 25.6 38.4

Manual Integrations
APPROVED

apatel

10/9/2018 4:12:12 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.66

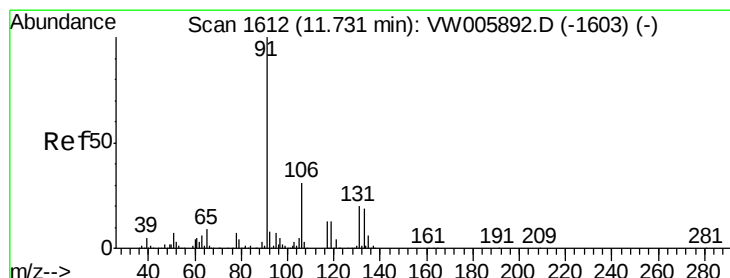
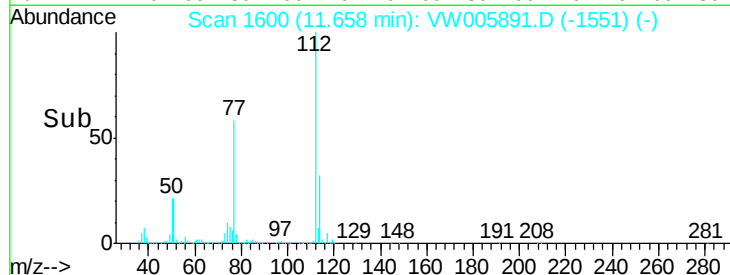
600000

400000

200000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 104.24 ug/l

RT: 11.73 min Scan# 1612

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

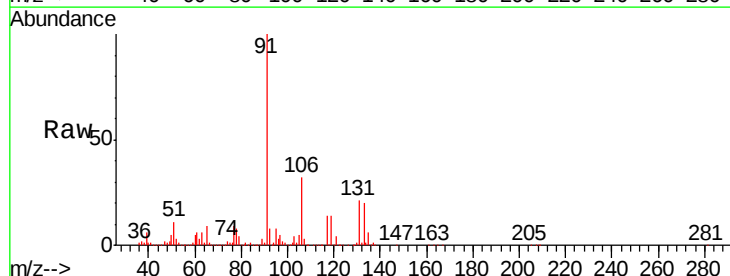
Tgt Ion:131 Resp: 362344

Ion Ratio Lower Upper

131 100

133 95.5 48.2 144.6

119 64.6 32.5 97.5



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

11.73

250000

200000

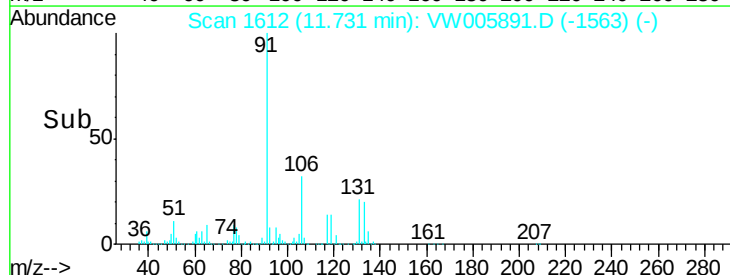
150000

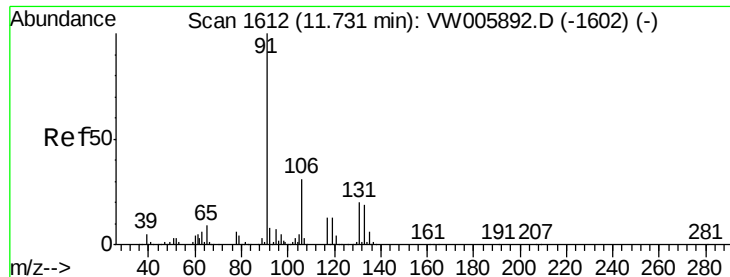
100000

50000

0

Time-->





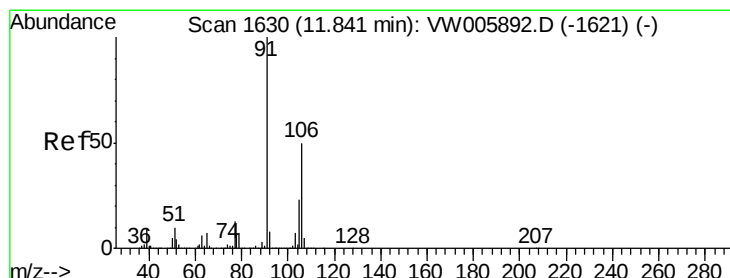
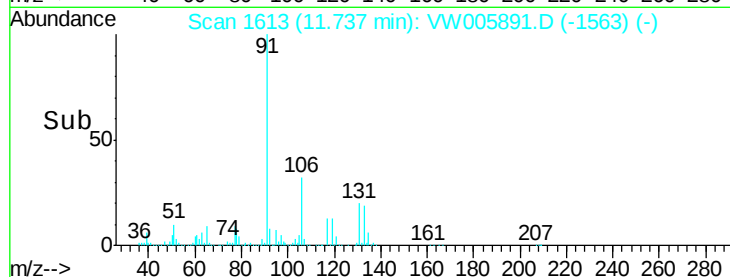
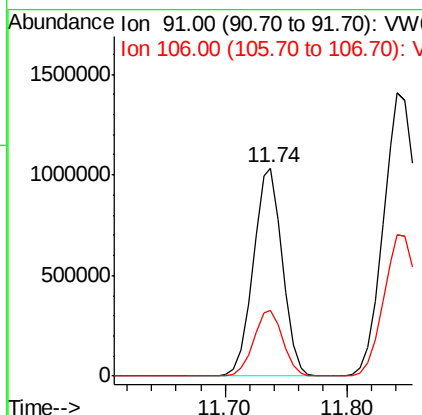
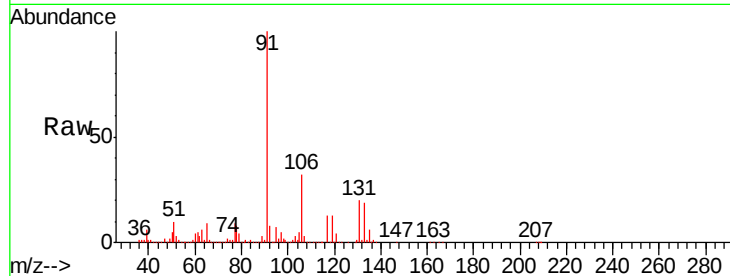
#67
Ethyl Benzene
Concen: 101.81 ug/l
RT: 11.74 min Scan# 1613
Delta R.T. 0.01 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC100

Tgt Ion: 91 Resp: 1705424
Ion Ratio Lower Upper
91 100
106 31.9 25.0 37.6

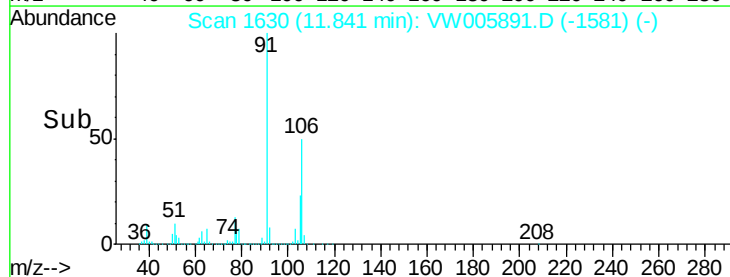
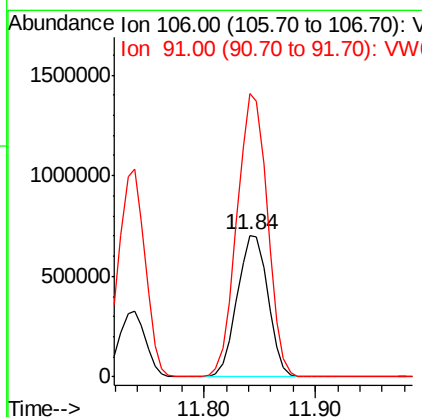
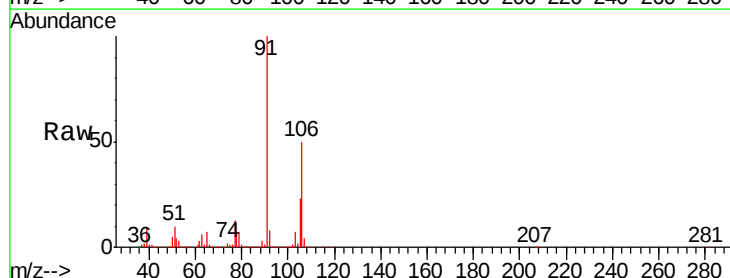
Manual Integrations
APPROVED

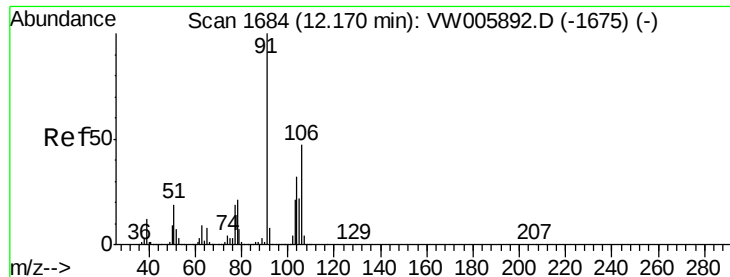
apatel
10/9/2018 4:12:12 PM



#68
m/p-Xylenes
Concen: 205.10 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion: 106 Resp: 1342573
Ion Ratio Lower Upper
106 100
91 199.2 160.2 240.2





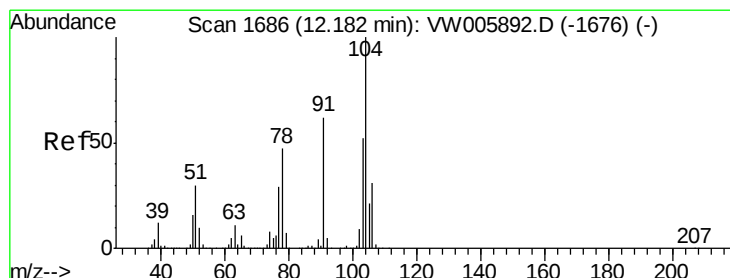
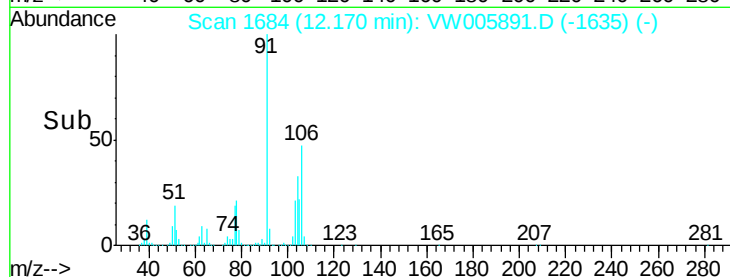
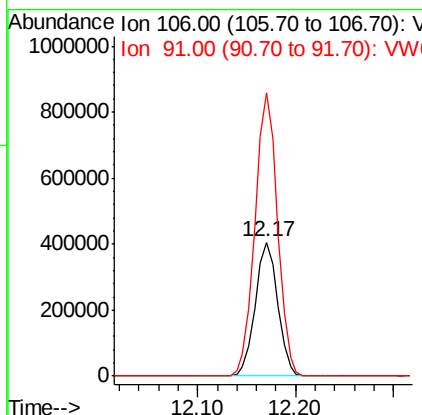
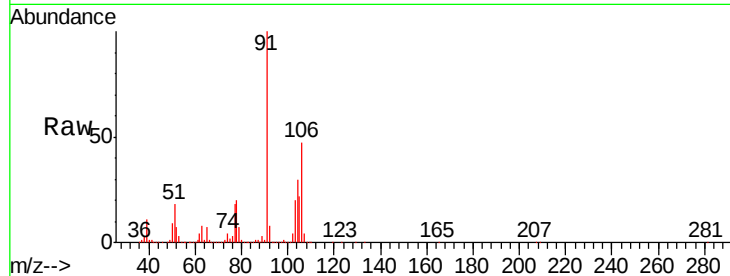
#69
o-Xylene
Concen: 103.50 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC100

Tgt Ion:106 Resp: 648605
Ion Ratio Lower Upper
106 100
91 211.2 106.2 318.5

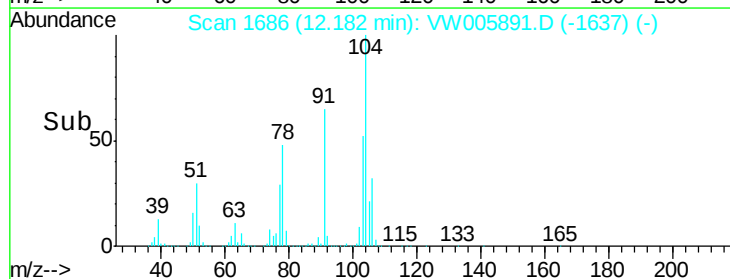
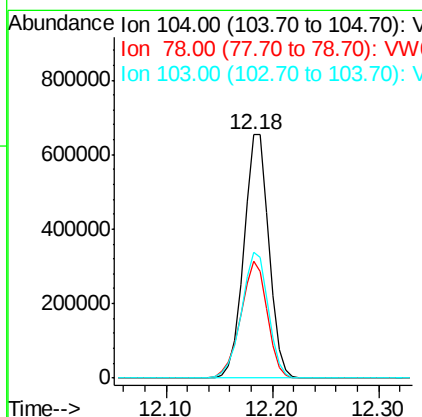
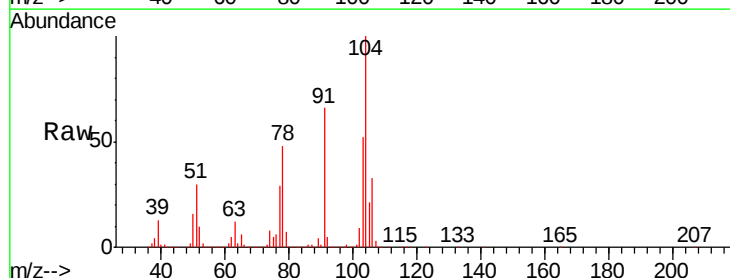
Manual Integrations
APPROVED

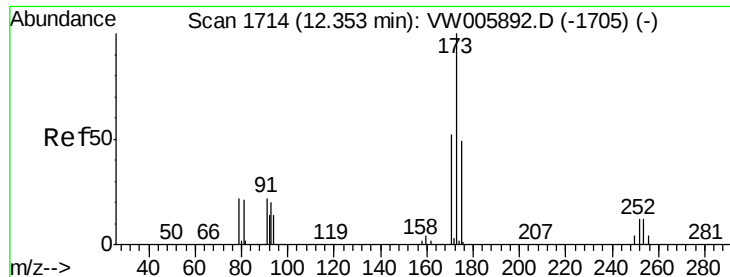
apatel
10/9/2018 4:12:12 PM



#70
Styrene
Concen: 103.76 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion:104 Resp: 1078828
Ion Ratio Lower Upper
104 100
78 50.7 40.4 60.6
103 55.3 44.2 66.2





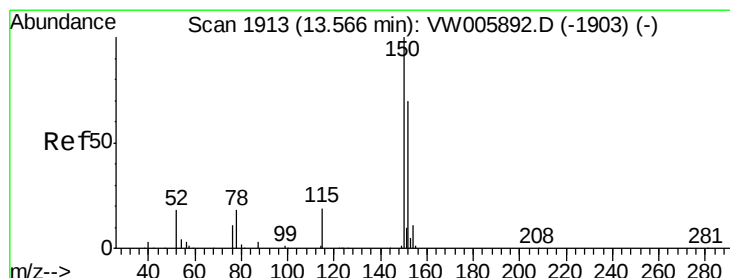
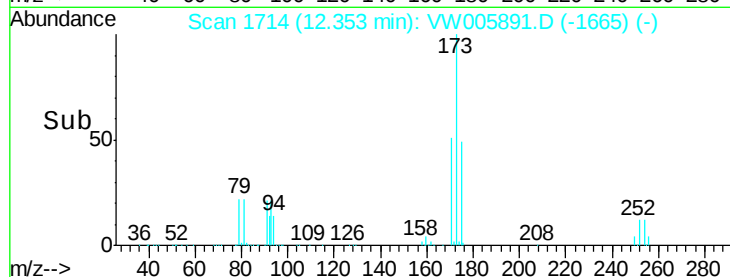
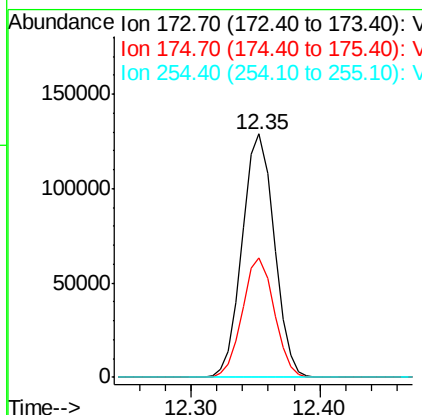
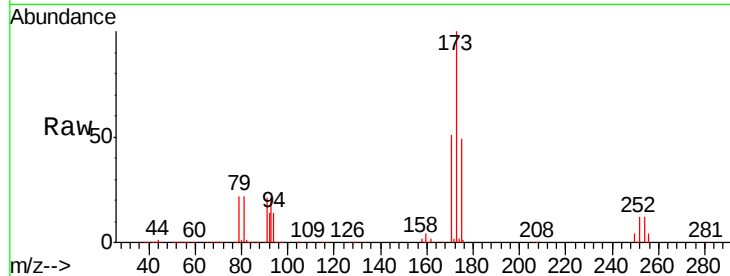
#71
Bromoform
Concen: 107.04 ug/l
RT: 12.35 min Scan# 1714
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.7	74.1
254	0.1	0.2	0.2

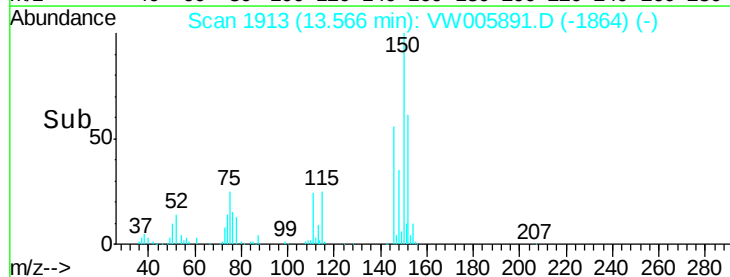
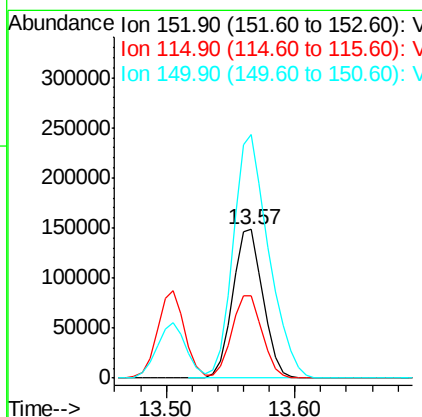
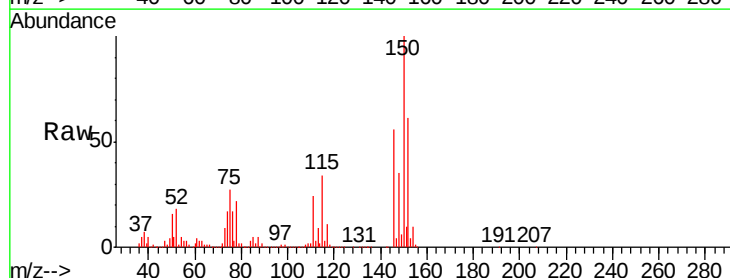
Manual Integrations
APPROVED

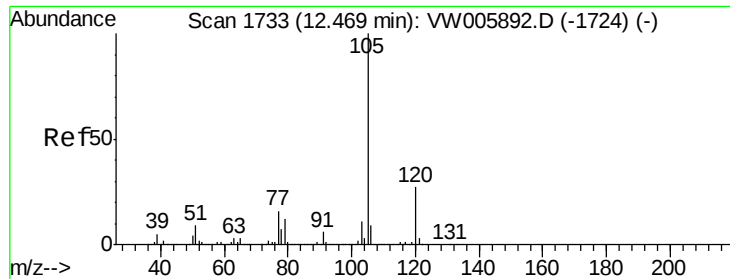
apatel
10/9/2018 4:12:12 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
152	100		
115	56.3	28.3	85.0
150	191.1	0.0	349.2





#73

Isopropylbenzene

Concen: 101.74 ug/l

RT: 12.47 min Scan# 1733

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

ClientSampleId :

VSTDIC100

Tgt Ion: 105 Resp: 1799553

Ion Ratio Lower Upper

105 100

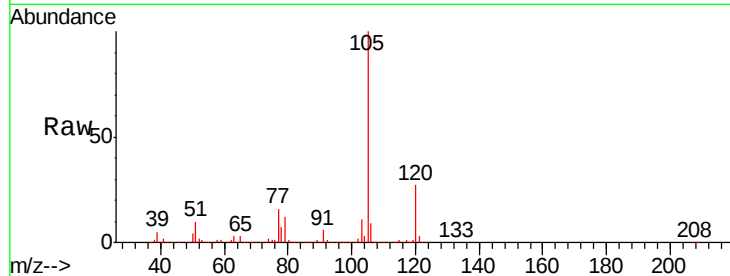
120 27.1 13.6 40.8

Manual Integrations

APPROVED

apatel

10/9/2018 4:12:12 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

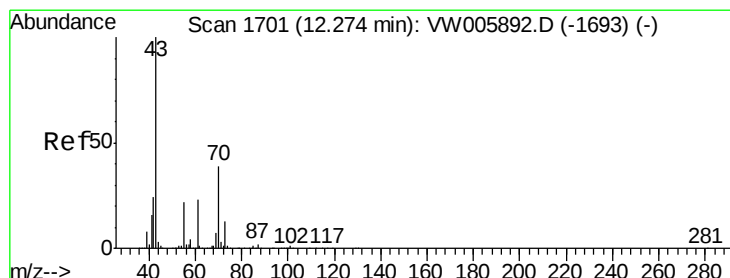
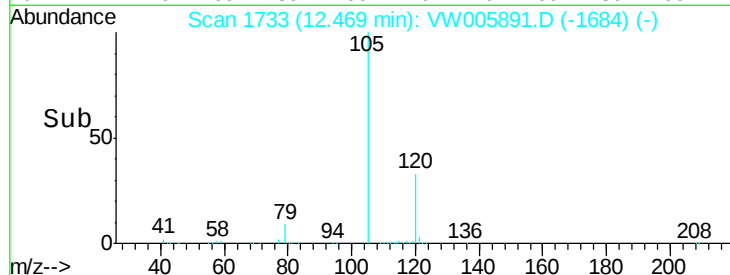
12.47

1000000

500000

0

Time-->



#74

N-ethyl acetate

Concen: 103.38 ug/l

RT: 12.27 min Scan# 1701

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Tgt Ion: 43 Resp: 434298

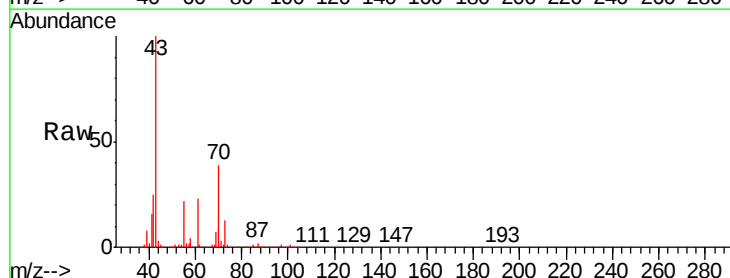
Ion Ratio Lower Upper

43 100

70 40.3 31.6 47.4

55 21.8 17.9 26.9

61 23.1 18.6 28.0



Abundance Ion 43.00 (42.70 to 43.70): VV

Ion 70.00 (69.70 to 70.70): VV

Ion 55.00 (54.70 to 55.70): VV

Ion 61.00 (60.70 to 61.70): VV

12.27

400000

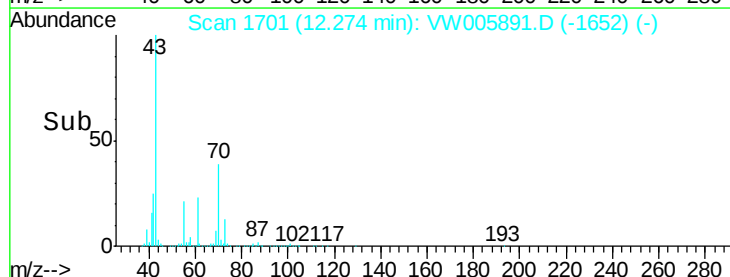
300000

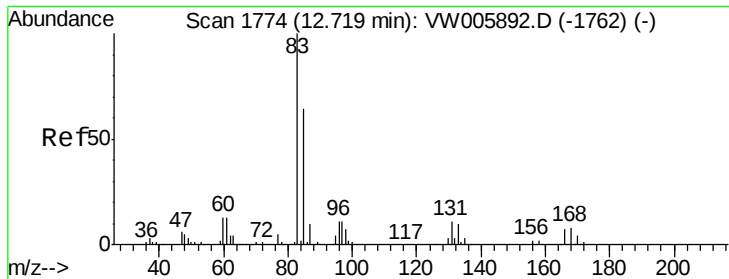
200000

100000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 102.69 ug/l

RT: 12.72 min Scan# 1774

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

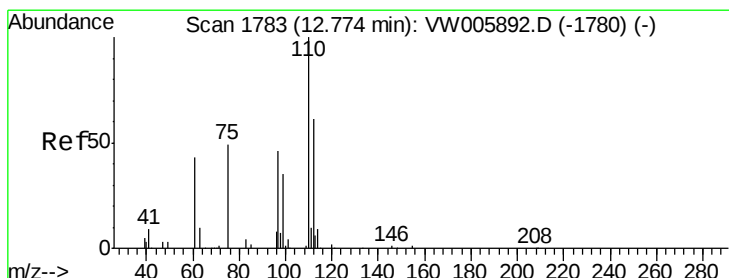
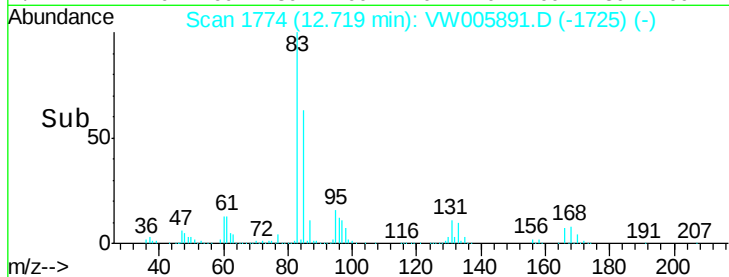
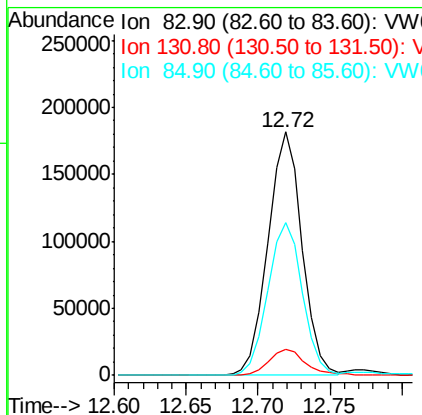
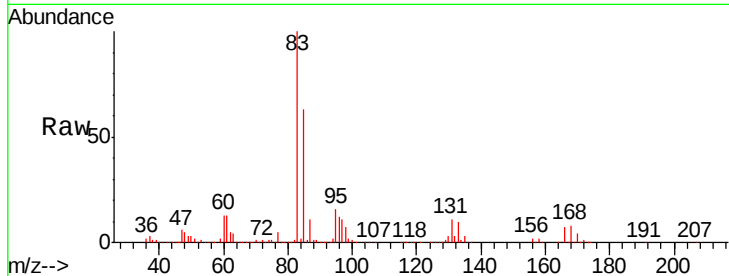
ClientSampleId :

VSTDIC100

Tgt Ion:	83	Resp:	297732
Ion Ratio	Lower	Upper	
83	100		
131	11.5	5.8	17.3
85	64.0	32.4	97.0

Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM



#76

1,2,3-Trichloropropane

Concen: 62.76 ug/l m

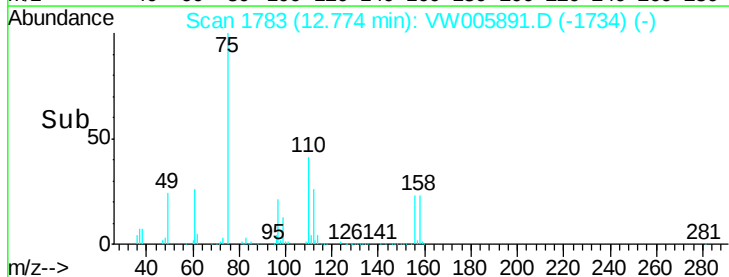
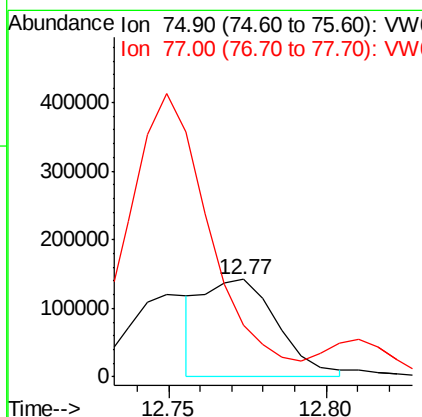
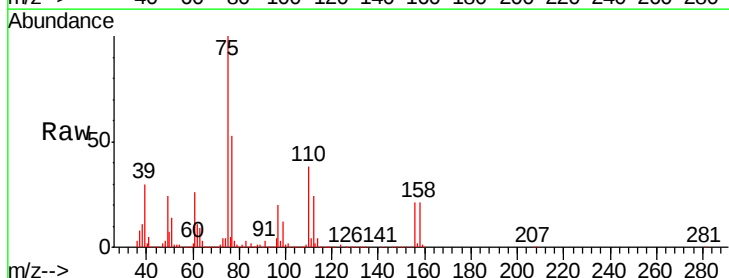
RT: 12.77 min Scan# 1783

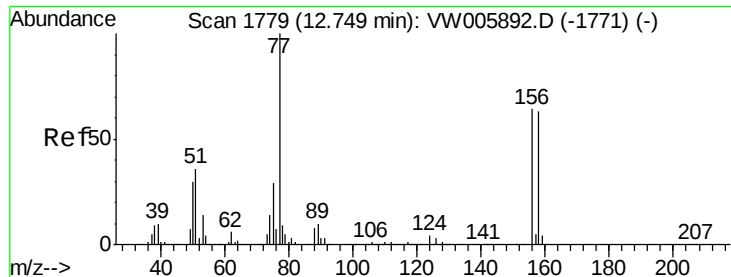
Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Tgt Ion:	75	Resp:	232677
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 102.91 ug/l

RT: 12.75 min Scan# 1779

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

ClientSampled :

VSTDIC100

Tgt Ion: 156 Resp: 431270

Ion Ratio Lower Upper

156 100

77 173.3 85.8 257.4

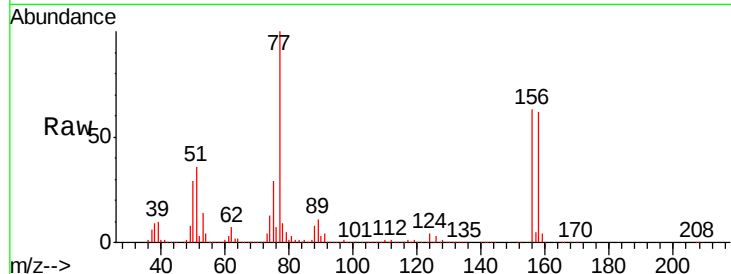
158 97.6 49.1 147.4

Manual Integrations

APPROVED

apatel

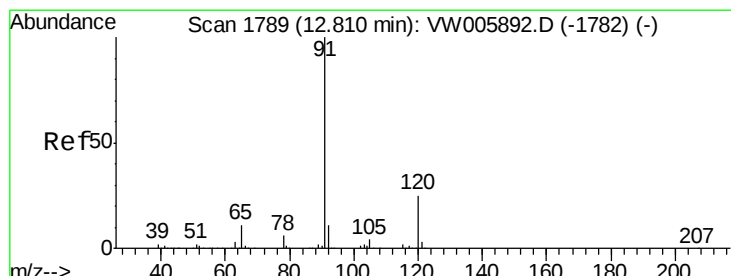
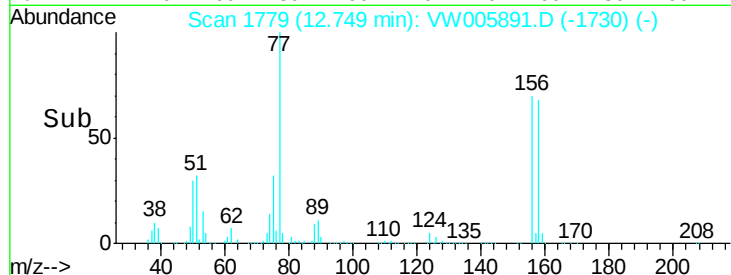
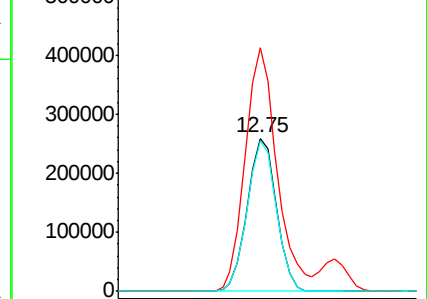
10/9/2018 4:12:12 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VW

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 100.85 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. -0.00 min

Lab File: VW005891.D

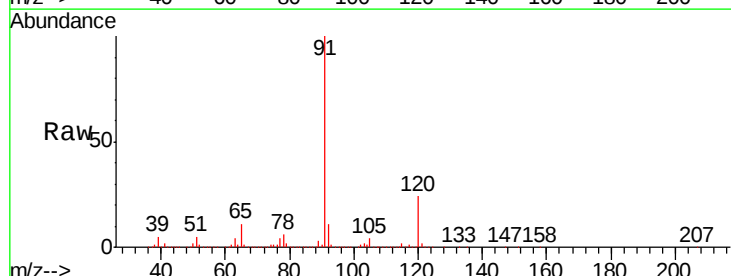
Acq: 08 Oct 2018 12:40

Tgt Ion: 91 Resp: 2098507

Ion Ratio Lower Upper

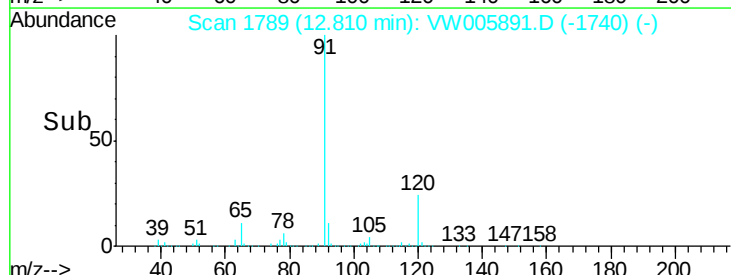
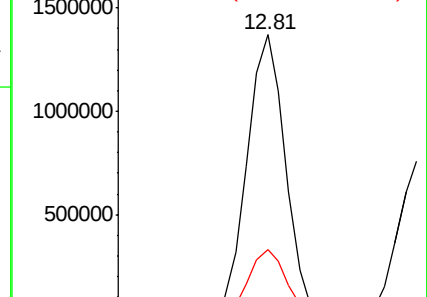
91 100

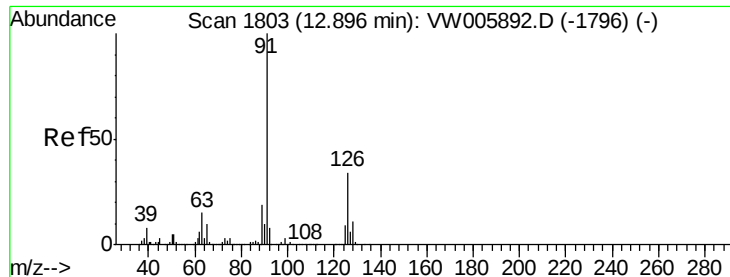
120 24.0 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 101.24 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

ClientSampled :

VSTDIC100

Tgt Ion: 91 Resp: 1189201

Ion Ratio Lower Upper

91 100

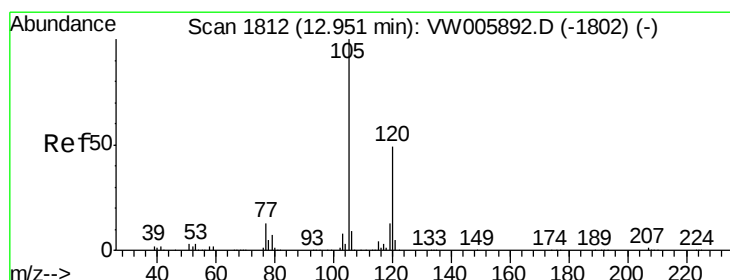
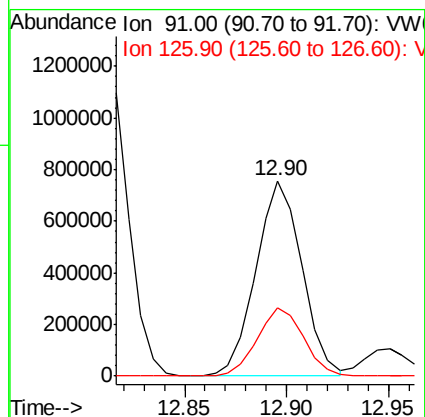
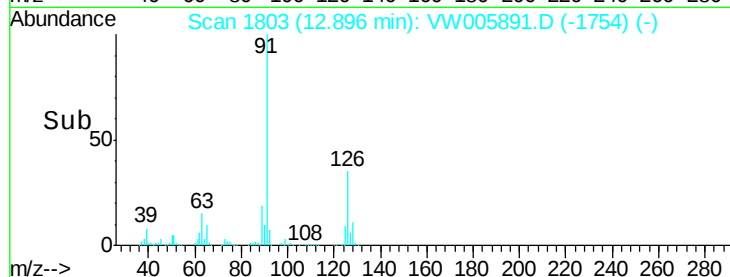
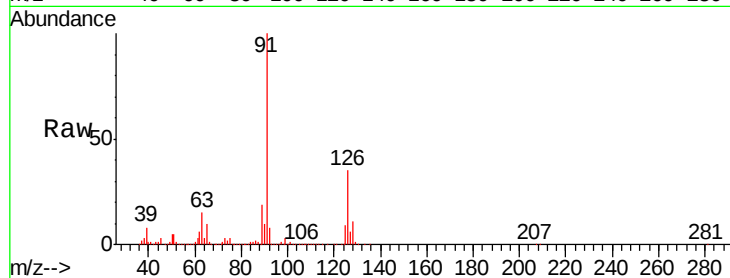
126 35.3 17.5 52.5

Manual Integrations

APPROVED

apatel

10/9/2018 4:12:12 PM



#80

1,3,5-Trimethylbenzene

Concen: 101.41 ug/l

RT: 12.95 min Scan# 1812

Delta R.T. -0.00 min

Lab File: VW005891.D

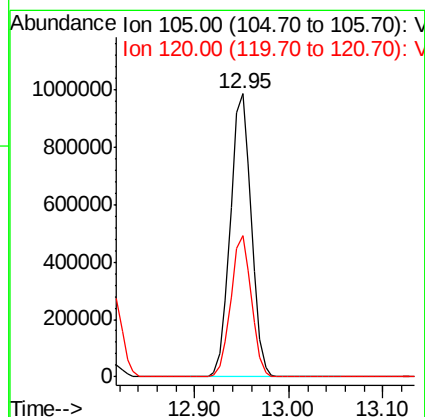
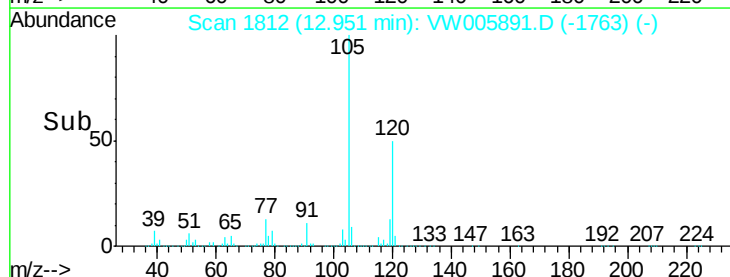
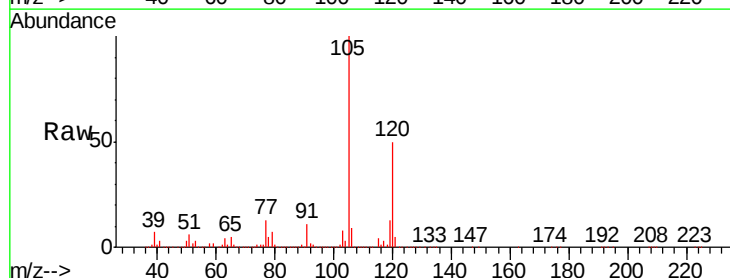
Acq: 08 Oct 2018 12:40

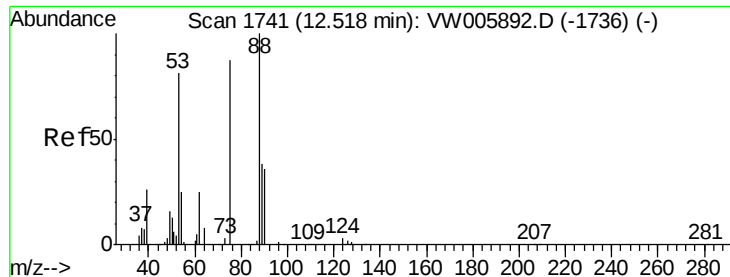
Tgt Ion: 105 Resp: 1514432

Ion Ratio Lower Upper

105 100

120 49.2 24.6 73.8





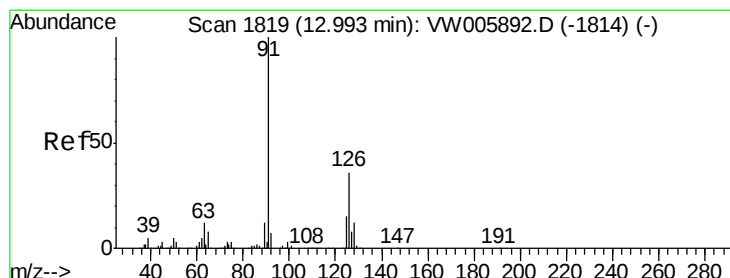
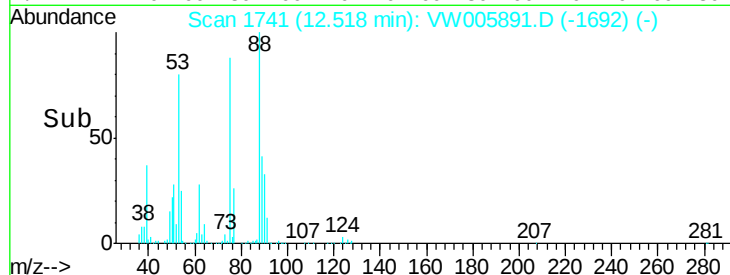
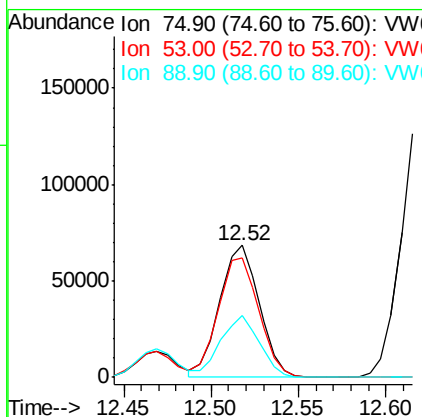
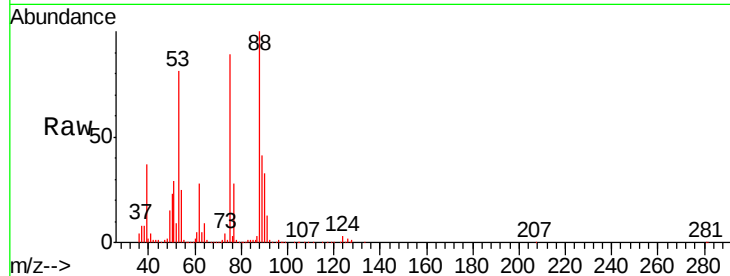
#81
trans-1,4-Dichloro-2-butene
Concen: 104.86 ug/l
RT: 12.52 min Scan# 1741
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
75	100		
53	93.5	76.5	114.7
89	46.5	37.6	56.4

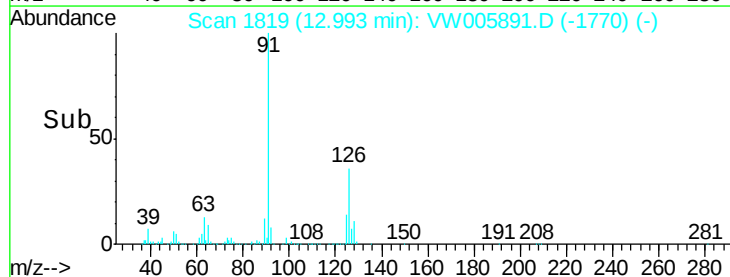
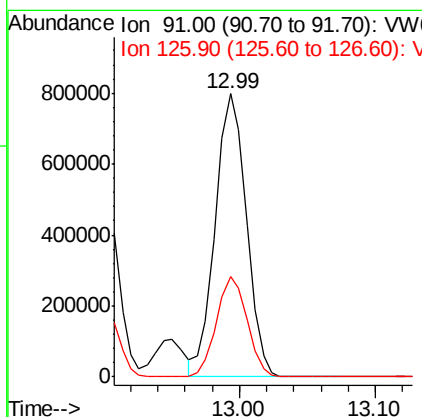
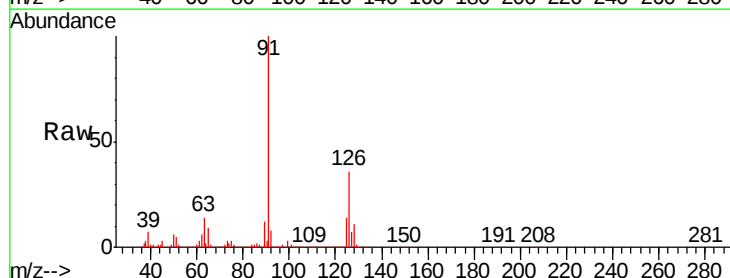
Manual Integrations
APPROVED

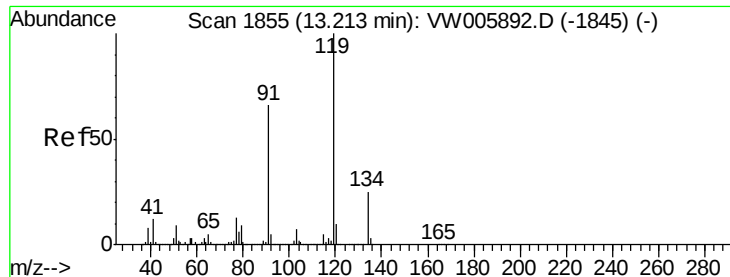
apatel
10/9/2018 4:12:12 PM



#82
4-Chlorotoluene
Concen: 102.38 ug/l
RT: 12.99 min Scan# 1819
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.0	17.4	52.2





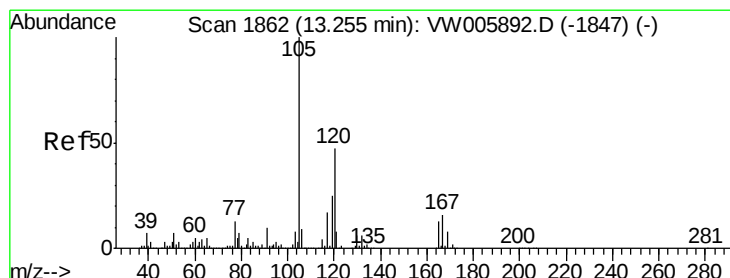
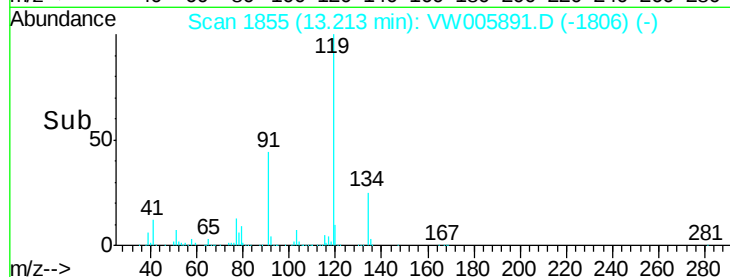
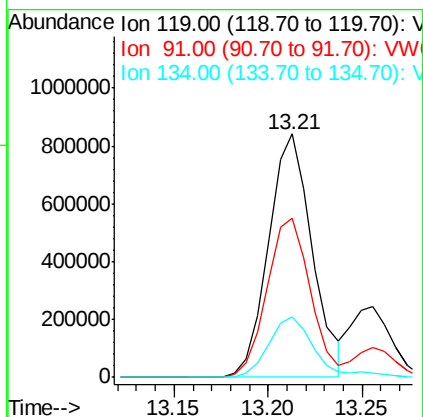
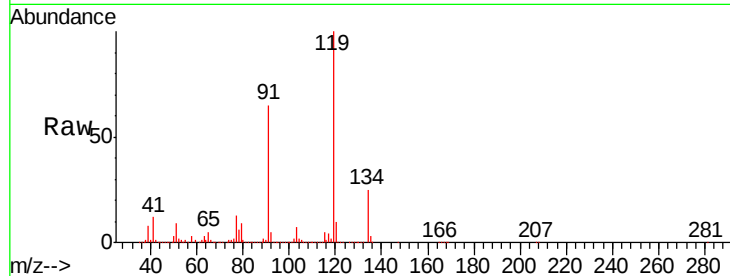
#83
 tert-Butylbenzene
 Concen: 101.65 ug/l
 RT: 13.21 min Scan# 1855
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC100

Tgt Ion:119 Resp: 1350097
 Ion Ratio Lower Upper
 119 100
 91 65.1 32.4 97.0
 134 26.3 13.2 39.6

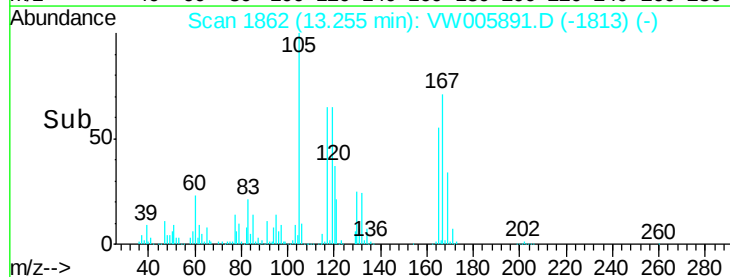
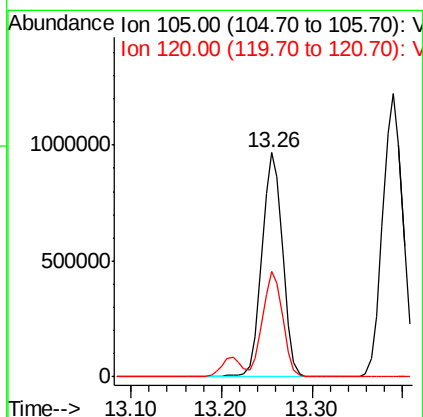
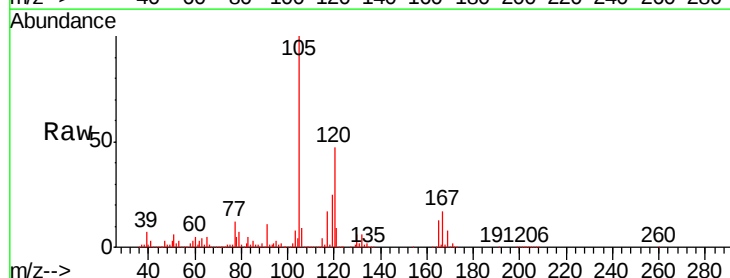
Manual Integrations
 APPROVED

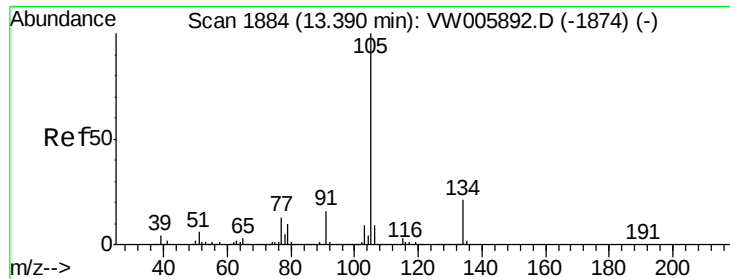
apatel
 10/9/2018 4:12:12 PM



#84
 1,2,4-Trimethylbenzene
 Concen: 100.98 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Tgt Ion:105 Resp: 1521177
 Ion Ratio Lower Upper
 105 100
 120 45.4 22.8 68.3





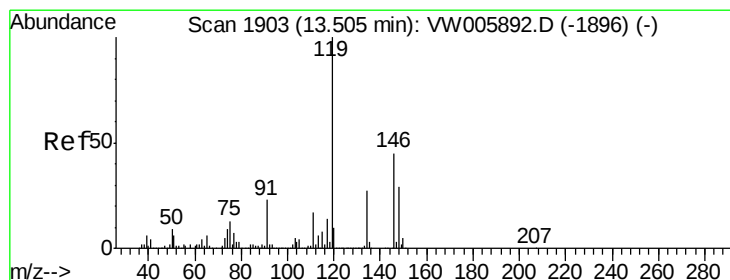
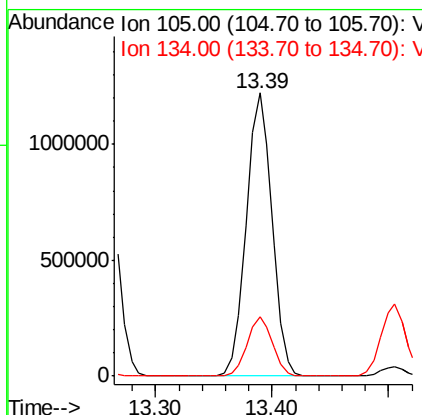
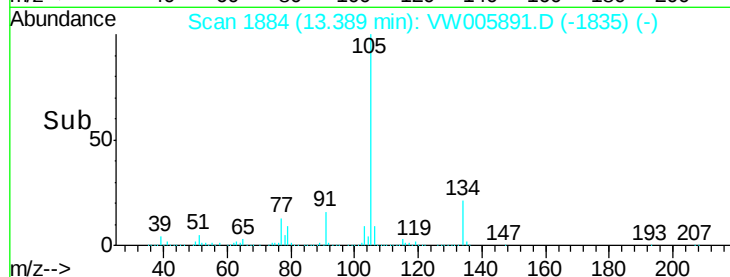
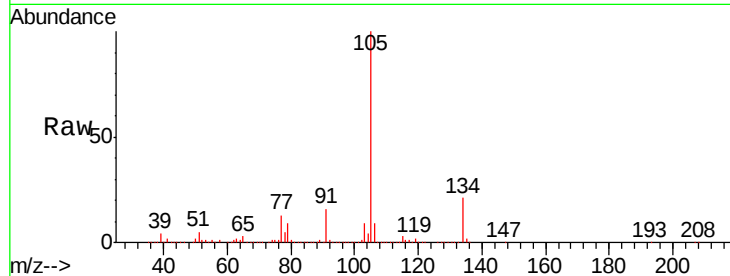
#85
 sec-Butylbenzene
 Concen: 101.12 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC100

Tgt Ion:105 Resp: 1885292
 Ion Ratio Lower Upper
 105 100
 134 20.8 10.4 31.4

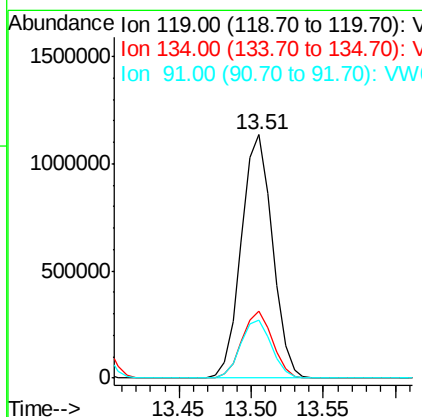
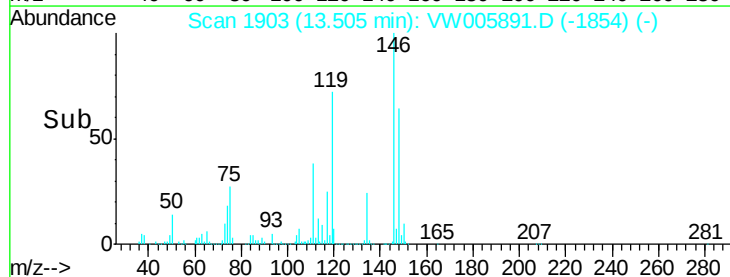
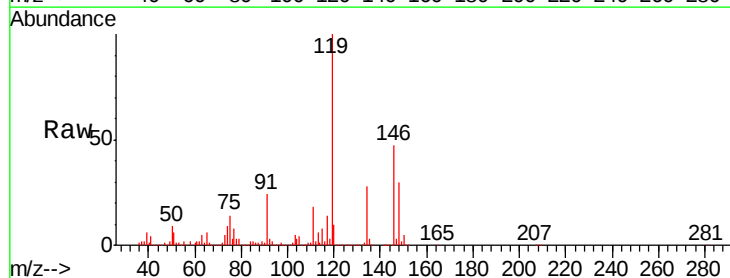
Manual Integrations
 APPROVED

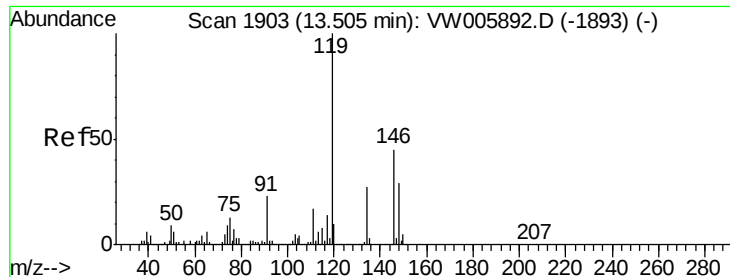
apatel
 10/9/2018 4:12:12 PM



#86
 p-Isopropyltoluene
 Concen: 101.05 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Tgt Ion:119 Resp: 1694188
 Ion Ratio Lower Upper
 119 100
 134 27.0 13.5 40.5
 91 23.8 11.9 35.5





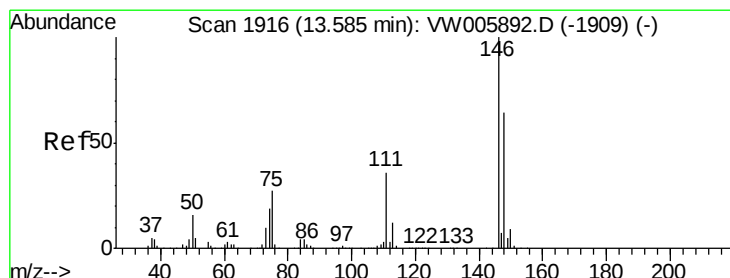
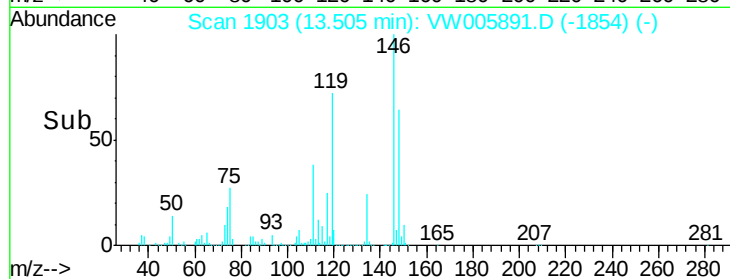
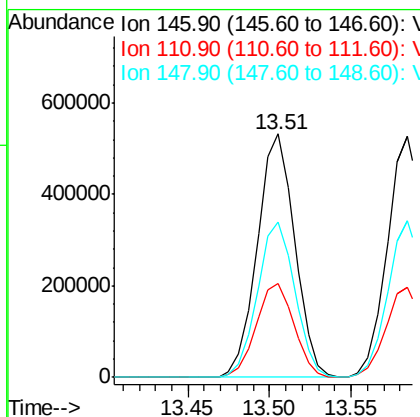
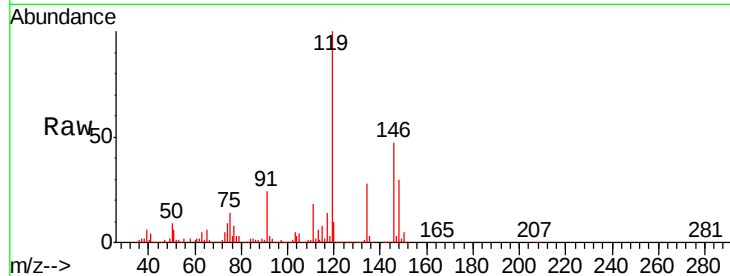
#87
 1,3-Dichlorobenzene
 Concen: 101.48 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Lower	Upper
146	100		
111	39.0	19.5	58.5
148	64.1	32.1	96.5

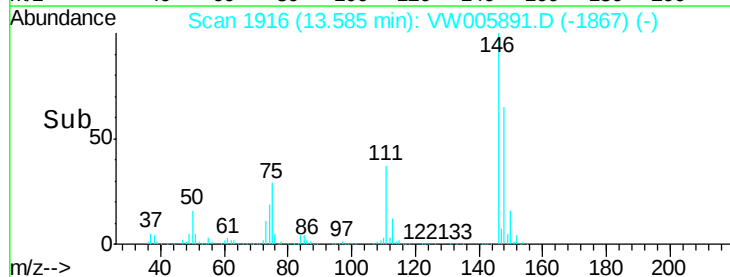
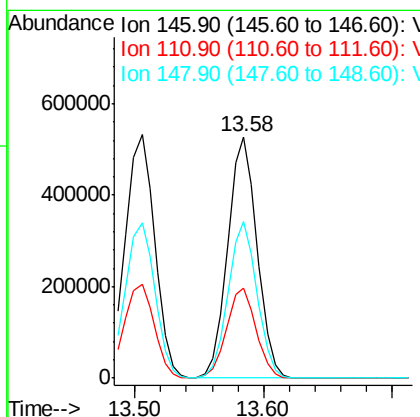
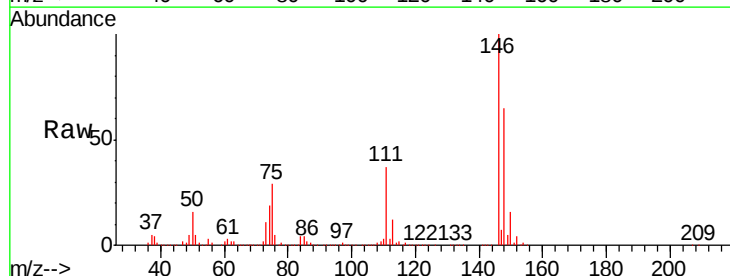
Manual Integrations
 APPROVED

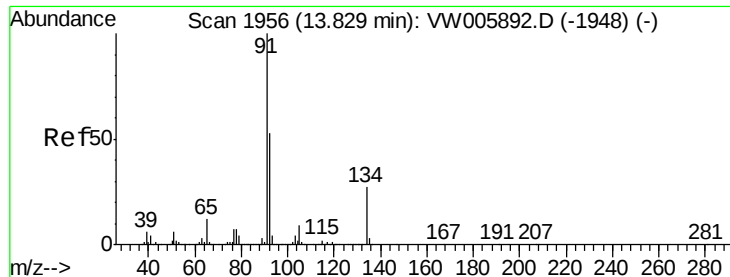
apatel
 10/9/2018 4:12:12 PM



#88
 1,4-Dichlorobenzene
 Concen: 101.30 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.6	19.0	57.0
148	63.9	32.0	96.2





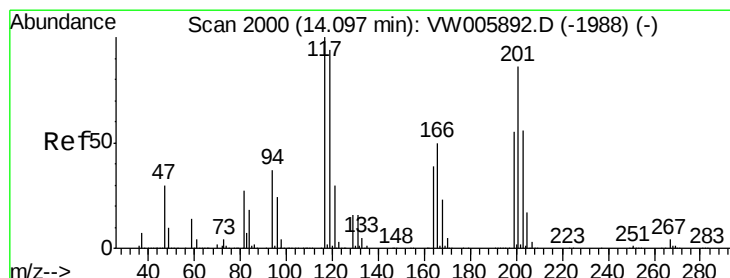
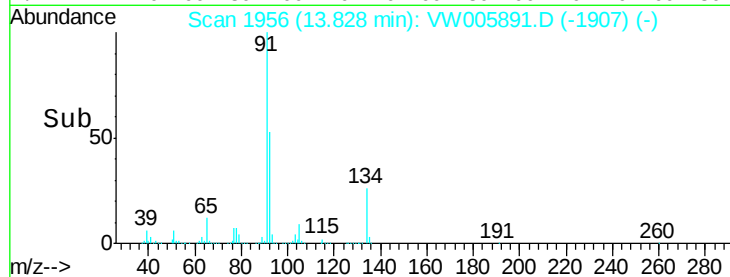
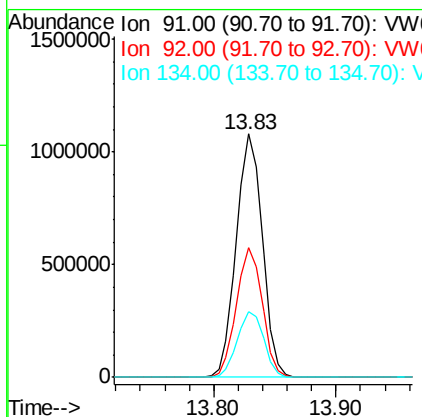
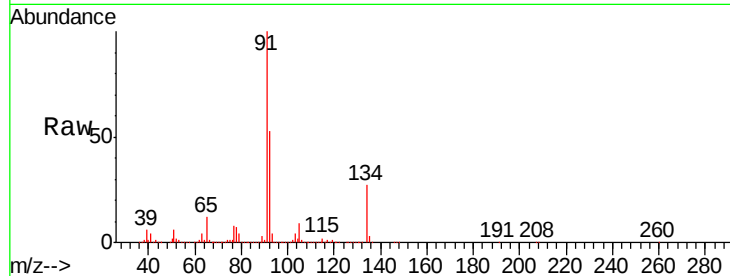
#89
n-Butylbenzene
Concen: 100.53 ug/l
RT: 13.83 min Scan# 1956
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Instrument :
MSVOA_W
ClientSampleId :
VSTDIC100

Tgt Ion	Ratio	Lower	Upper
91	100		
92	53.1	26.6	79.8
134	27.6	13.8	41.4

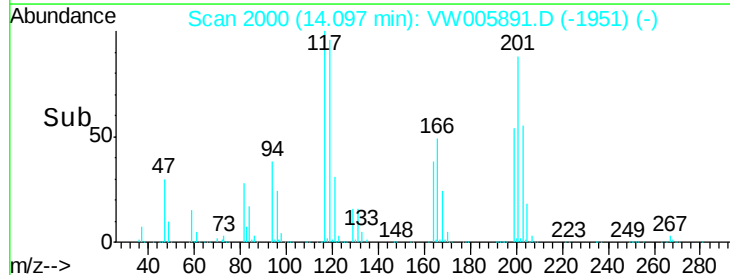
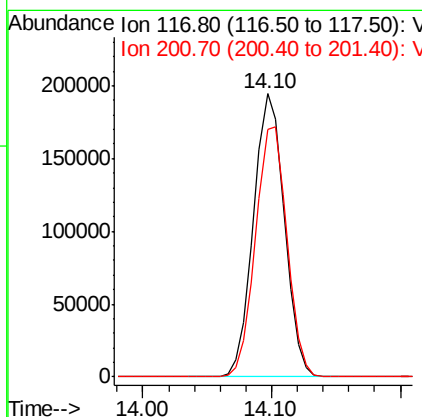
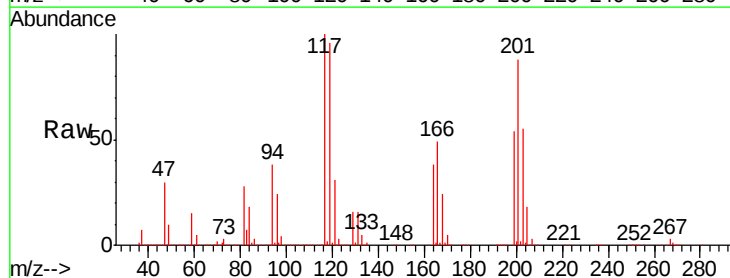
Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM



#90
Hexachloroethane
Concen: 102.07 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. -0.00 min
Lab File: VW005891.D
Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Lower	Upper
117	100		
201	90.1	44.5	133.5





#91

1,2-Dichlorobenzene

Concen: 101.80 ug/l

RT: 13.88 min Scan# 1964

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

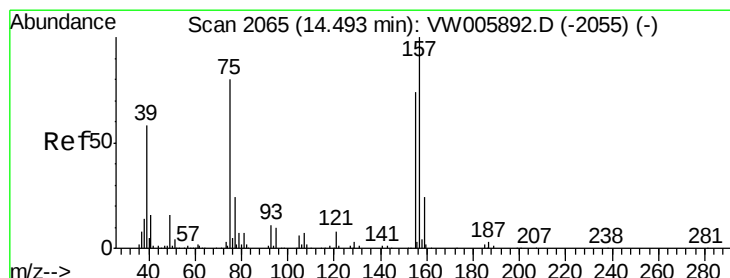
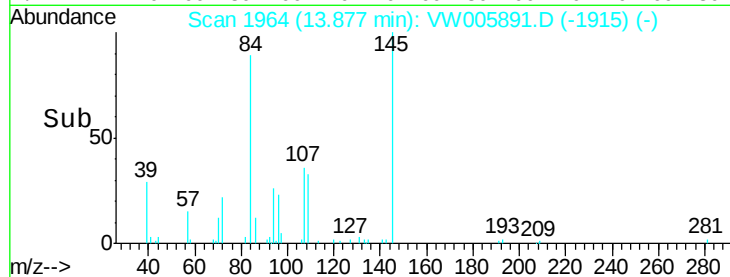
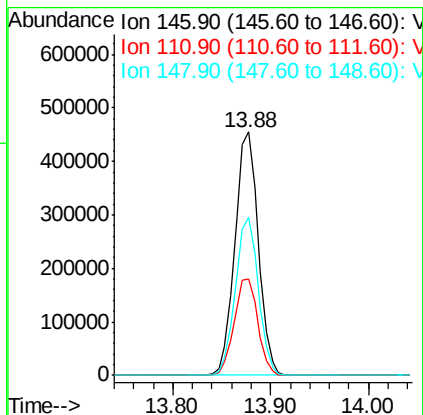
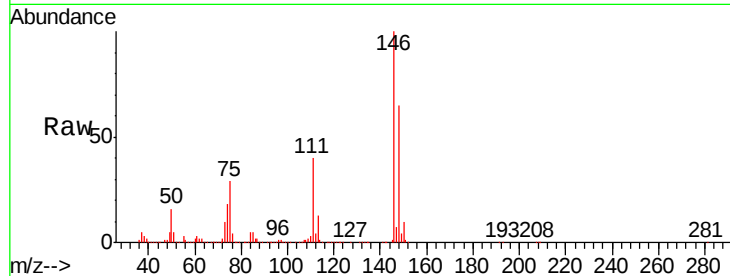
ClientSampleId :

VSTDIC100

Tgt Ion:	146	Resp:	752473
Ion Ratio	Lower	Upper	
146	100		
111	40.2	20.3	61.0
148	63.9	32.5	97.4

Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM



#92

1,2-Dibromo-3-Chloropropane

Concen: 104.09 ug/l

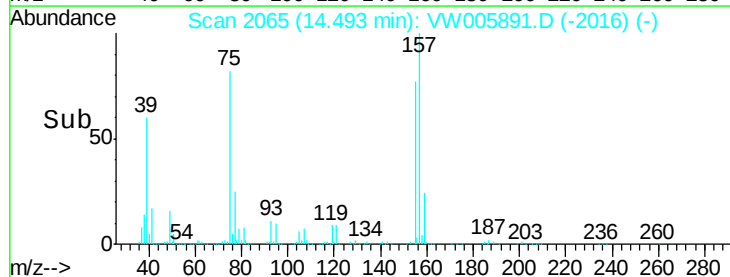
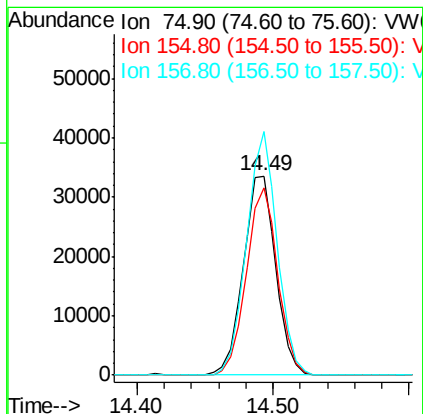
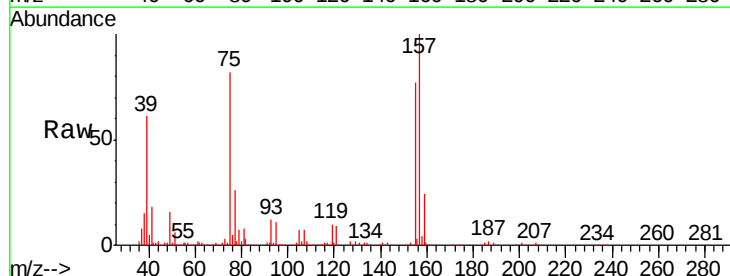
RT: 14.49 min Scan# 2065

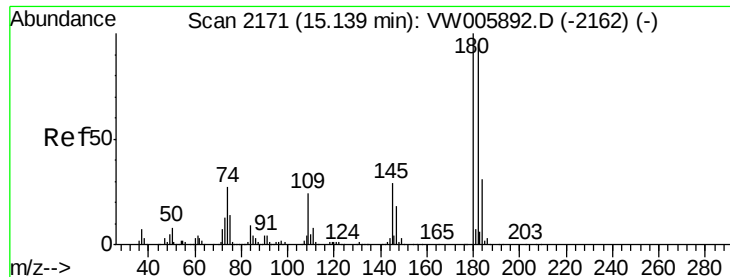
Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Tgt Ion:	75	Resp:	56240
Ion Ratio	Lower	Upper	
75	100		
155	90.6	44.8	134.3
157	115.2	58.9	176.6





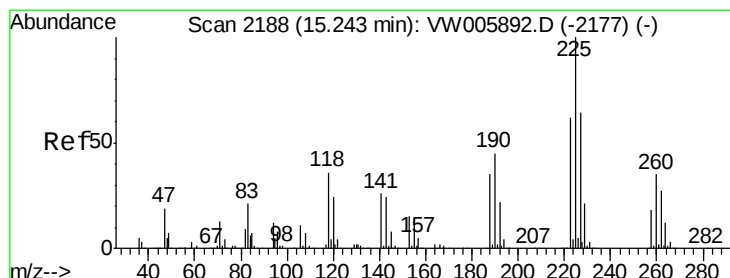
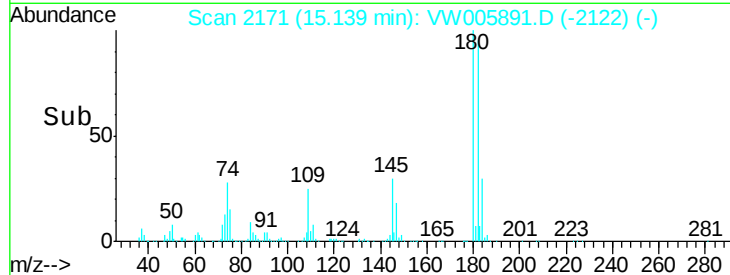
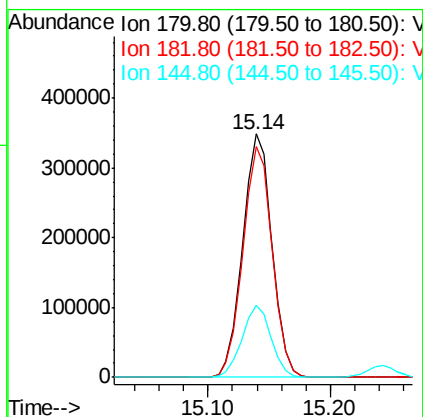
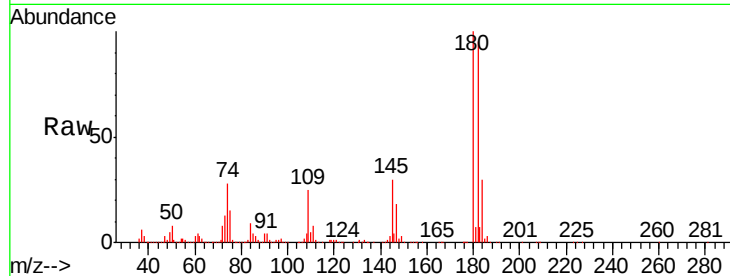
#93
 1,2,4-Trichlorobenzene
 Concen: 100.86 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Instrument :
 MSVOA_W
 ClientSampleId :
 VSTDIC100

Tgt Ion	Ratio	Resp	Lower	Upper
180	100	578040		
182	95.1	47.8	143.3	
145	29.4	14.5	43.6	

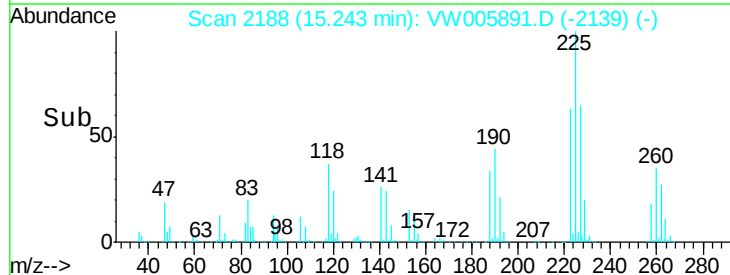
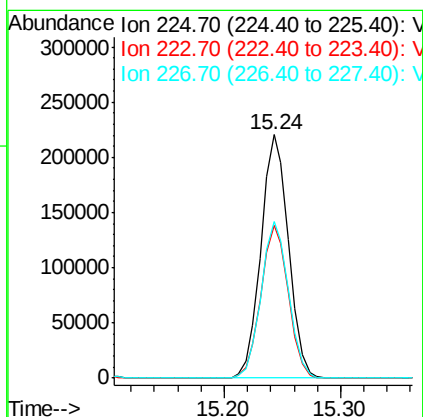
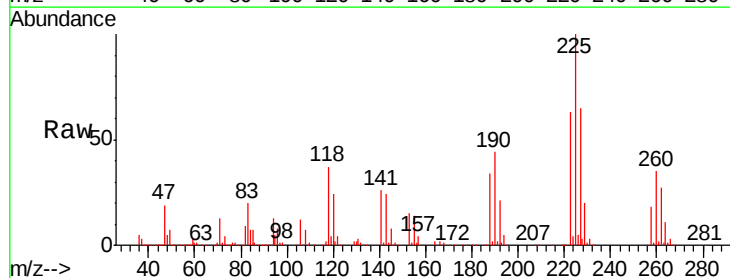
Manual Integrations
 APPROVED

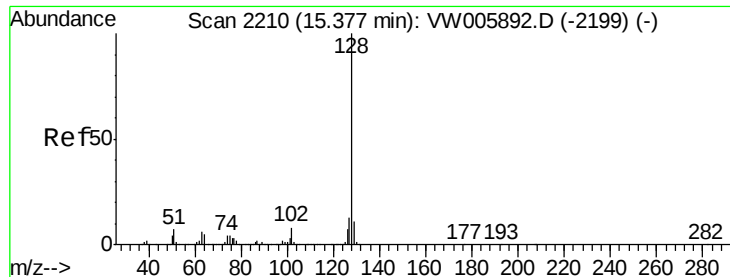
apatel
 10/9/2018 4:12:12 PM



#94
 Hexachlorobutadiene
 Concen: 101.26 ug/l
 RT: 15.24 min Scan# 2188
 Delta R.T. -0.00 min
 Lab File: VW005891.D
 Acq: 08 Oct 2018 12:40

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	362261		
223	62.8	31.2	93.6	
227	64.1	31.9	95.9	





#95

Naphthalene

Concen: 103.34 ug/l

RT: 15.38 min Scan# 2210

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Instrument :

MSVOA_W

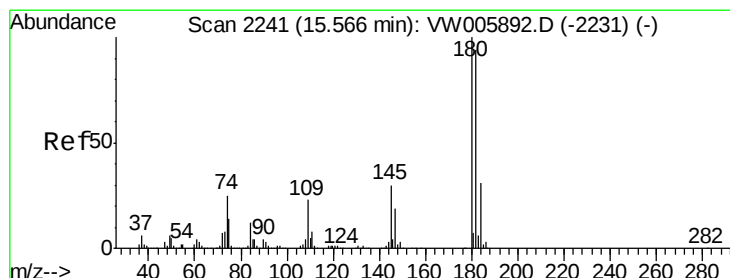
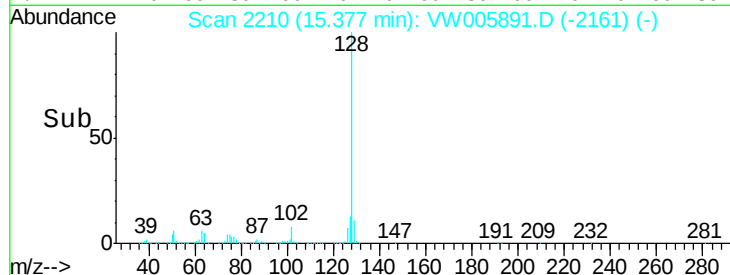
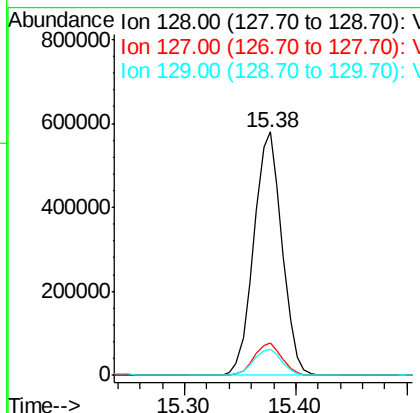
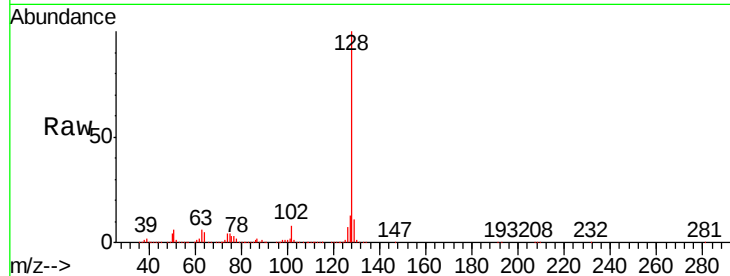
ClientSampled :

VSTDIC100

Tgt Ion:	128	Resp:	1020869
Ion	Ratio	Lower	Upper
128	100		
127	13.1	10.5	15.7
129	10.9	8.9	13.3

Manual Integrations
APPROVED

apatel
10/9/2018 4:12:12 PM



#96

1,2,3-Trichlorobenzene

Concen: 101.54 ug/l

RT: 15.57 min Scan# 2241

Delta R.T. -0.00 min

Lab File: VW005891.D

Acq: 08 Oct 2018 12:40

Tgt Ion:	180	Resp:	503903
Ion	Ratio	Lower	Upper
180	100		
182	95.4	47.6	142.8
145	31.0	15.3	45.9

