

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV101718\
 Data File : VW006161.D
 Acq On : 18 Oct 2018 08:23
 Operator : VA/AP
 Sample : J5565-05MS
 Misc : 5.04G/5ML/MSVOA W/SOIL
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleId :
 RLF-SD-5MS

Manual Integrations
 APPROVED

apatel
 10/18/2018 4:40:24 PM

Quant Time: Oct 18 14:38:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 16 05:36:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.95	168	217274	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.84	114	319334	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.63	117	268474	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.57	152	111754	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.31	65	101427	56.31	ug/l	0.00
Spiked Amount	50.000		Recovery	=	112.62%	
35) Dibromofluoromethane	7.88	113	99485	52.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.44%	
50) Toluene-d8	10.33	98	350025	48.76	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.52%	
62) 4-Bromofluorobenzene	12.62	95	111008	41.17	ug/l	0.00
Spiked Amount	50.000		Recovery	=	82.34%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	2.01	85	60626	56.386	ug/l	98
3) Chloromethane	2.21	50	68347	49.383	ug/l	97
4) Vinyl Chloride	2.37	62	108683	54.987	ug/l	99
5) Bromomethane	2.78	94	82446	45.861	ug/l	99
6) Chloroethane	2.93	64	77596	54.782	ug/l	100
7) Trichlorofluoromethane	3.26	101	94481	51.313	ug/l	98
8) Diethyl Ether	3.68	74	60041	61.356	ug/l	94
9) 1,1,2-Trichlorotrifluoroet	4.06	101	104288	54.046	ug/l	99
10) Methyl Iodide	4.27	142	131784	41.033	ug/l	100
11) Tert butyl alcohol	5.23	59	33857	279.471	ug/l	99
12) 1,1-Dichloroethene	4.03	96	105116	57.902	ug/l	97
14) Allvl chloride	4.67	41	119190	45.918	ug/l	100
15) Acrylonitrile	5.37	53	102560	292.206	ug/l	99
16) Acetone	4.14	43	100555	300.547	ug/l	99
17) Carbon Disulfide	4.38	76	205978	37.594	ug/l	99
18) Methyl Acetate	4.67	43	150019	165.492	ug/l	100
19) Methyl tert-butyl Ether	5.43	73	181713	65.718	ug/l	95
20) Methylene Chloride	4.91	84	155998	82.917	ug/l	98
21) trans-1,2-Dichloroethene	5.42	96	116996	57.738	ug/l	99
22) Diisopropyl ether	6.32	45	314650	61.341	ug/l	97
23) Vinyl Acetate	6.32	43	171523	56.660	ug/l #	71
24) 1,1-Dichloroethane	6.21	63	202043	61.042	ug/l	99
25) 2-Butanone	7.18	43	139915	287.521	ug/l	96
26) 2,2-Dichloropropane	7.17	77	105203	45.065	ug/l	98
27) cis-1,2-Dichloroethene	7.17	96	134926	60.339	ug/l	98
28) Bromochloromethane	7.51	49	75837	59.349	ug/l	96
29) Tetrahydrofuran	7.54	42	94943	317.411	ug/l	99
30) Chloroform	7.68	83	221915	61.538	ug/l	98
31) Cyclohexane	7.95	56	147828	44.848	ug/l	98
32) 1,1,1-Trichloroethane	7.87	97	182996	56.255	ug/l	99
36) 1,1-Dichloropropene	8.09	75	156377	53.129	ug/l	99
37) Ethyl Acetate	7.26	43	14835	13.566	ug/l #	80
38) Carbon Tetrachloride	8.07	117	155594	48.222	ug/l	97
39) Methylcyclohexane	9.34	83	139014	35.530	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA W\DATA\WV101718\
 Data File : VW006161.D
 Acq On : 18 Oct 2018 08:23
 Operator : VA/AP
 Sample : J5565-05MS
 Misc : 5.04G/5ML/MSVOA W/SOIL
 ALS Vial : 48 Sample Multiplier: 1

Instrument :
 MSVOA_W
 ClientSampleID :
 RLF-SD-5MS

Manual Integrations
 APPROVED

apatel
 10/18/2018 4:40:24 PM

Quant Time: Oct 18 14:38:23 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
 Quant Title : SW846 8260
 QLast Update : Tue Oct 16 05:36:33 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
40) Benzene	8.32	78	464321	57.509	ug/l	99
41) Methacrylonitrile	7.49	41	33809	51.284	ug/l	95
42) 1,2-Dichloroethane	8.40	62	148006	62.395	ug/l	100
43) Isopropyl Acetate	8.43	43	48045	21.487	ug/l #	74
44) Trichloroethene	9.09	130	136710	55.191	ug/l	99
45) 1,2-Dichloropropane	9.37	63	112033	57.987	ug/l	100
46) Dibromomethane	9.46	93	69522	63.135	ug/l	98
47) Bromodichloromethane	9.65	83	140071	52.467	ug/l	99
48) Methyl methacrylate	9.44	41	87197	82.271	ug/l	98
49) 1,4-Dioxane	9.47	88	19749	1164.996	ug/l #	100
51) 4-Methyl-2-Pentanone	10.21	43	347878	310.521	ug/l	99
52) Toluene	10.39	92	292726	54.079	ug/l	99
53) t-1,3-Dichloropropene	10.61	75	130342	49.003	ug/l	99
54) cis-1,3-Dichloropropene	10.07	75	147318	48.258	ug/l	99
55) 1,1,2-Trichloroethane	10.79	97	93065	60.394	ug/l	97
56) Ethyl methacrylate	10.65	69	20770	10.995	ug/l #	73
57) 1,3-Dichloropropane	10.93	76	152388	59.739	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.93	63	190627	264.085	ug/l	99
59) 2-Hexanone	10.98	43	219344	274.278	ug/l	98
60) Dibromochloromethane	11.13	129	97480	50.787	ug/l	99
61) 1,2-Dibromoethane	11.24	107	89865	58.365	ug/l	98
64) Tetrachloroethene	10.87	164	108376	51.999	ug/l	99
65) Chlorobenzene	11.66	112	315957	54.975	ug/l	98
66) 1,1,1,2-Tetrachloroethane	11.73	131	119252	58.387	ug/l	100
67) Ethyl Benzene	11.74	91	530827	53.295	ug/l	100
68) m/p-Xylenes	11.84	106	413492	105.033	ug/l	98
69) o-Xylene	12.17	106	203813	54.323	ug/l	99
70) Stvrene	12.18	104	298774	48.971	ug/l	99
71) Bromoform	12.35	173	58143	51.038	ug/l #	100
73) Isopropylbenzene	12.47	105	497998	63.077	ug/l	100
74) N-amyl acetate	12.28	43	3069	2.001	ug/l	94
75) 1,1,2,2-Tetrachloroethane	12.72	83	101371	84.419	ug/l	100
76) 1,2,3-Trichloropropane	12.77	75	65460m	76.689	ug/l	
77) Bromobenzene	12.75	156	134814	69.716	ug/l	100
78) n-propylbenzene	12.81	91	513410	55.895	ug/l	100
79) 2-Chlorotoluene	12.90	91	310075	60.082	ug/l	100
80) 1,3,5-Trimethylbenzene	12.95	105	384500	57.770	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.52	75	19189	53.738	ug/l	95
82) 4-Chlorotoluene	12.99	91	318774	58.965	ug/l	99
83) tert-Butylbenzene	13.21	119	329334	55.305	ug/l	97
84) 1,2,4-Trimethylbenzene	13.26	105	394208	58.531	ug/l	99
85) sec-Butylbenzene	13.39	105	386573	45.951	ug/l	100
86) p-Isopropyltoluene	13.51	119	345027	45.343	ug/l	100
87) 1,3-Dichlorobenzene	13.51	146	205783	53.471	ug/l	99
88) 1,4-Dichlorobenzene	13.58	146	205678	53.676	ug/l	99
89) n-Butylbenzene	13.83	91	236039	33.919	ug/l	99
90) Hexachloroethane	14.10	117	51526	39.977	ug/l	99
91) 1,2-Dichlorobenzene	13.88	146	190383	55.459	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.49	75	15572	72.430	ug/l	96
93) 1,2,4-Trichlorobenzene	15.14	180	82218	31.127	ug/l	99

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW101718\
Data File : VW006161.D
Acq On : 18 Oct 2018 08:23
Operator : VA/AP
Sample : J5565-05MS
Misc : 5.04G/5ML/MSVOA W/SOIL
ALS Vial : 48 Sample Multiplier: 1

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Manual Integrations
APPROVED

apatel
10/18/2018 4:40:24 PM

Quant Time: Oct 18 14:38:23 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 16 05:36:33 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
94) Hexachlorobutadiene	15.24	225	32806	19.771	ug/l	99
95) Naphthalene	15.38	128	212258	48.307	ug/l	100
96) 1,2,3-Trichlorobenzene	15.57	180	70244	30.746	ug/l	99

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

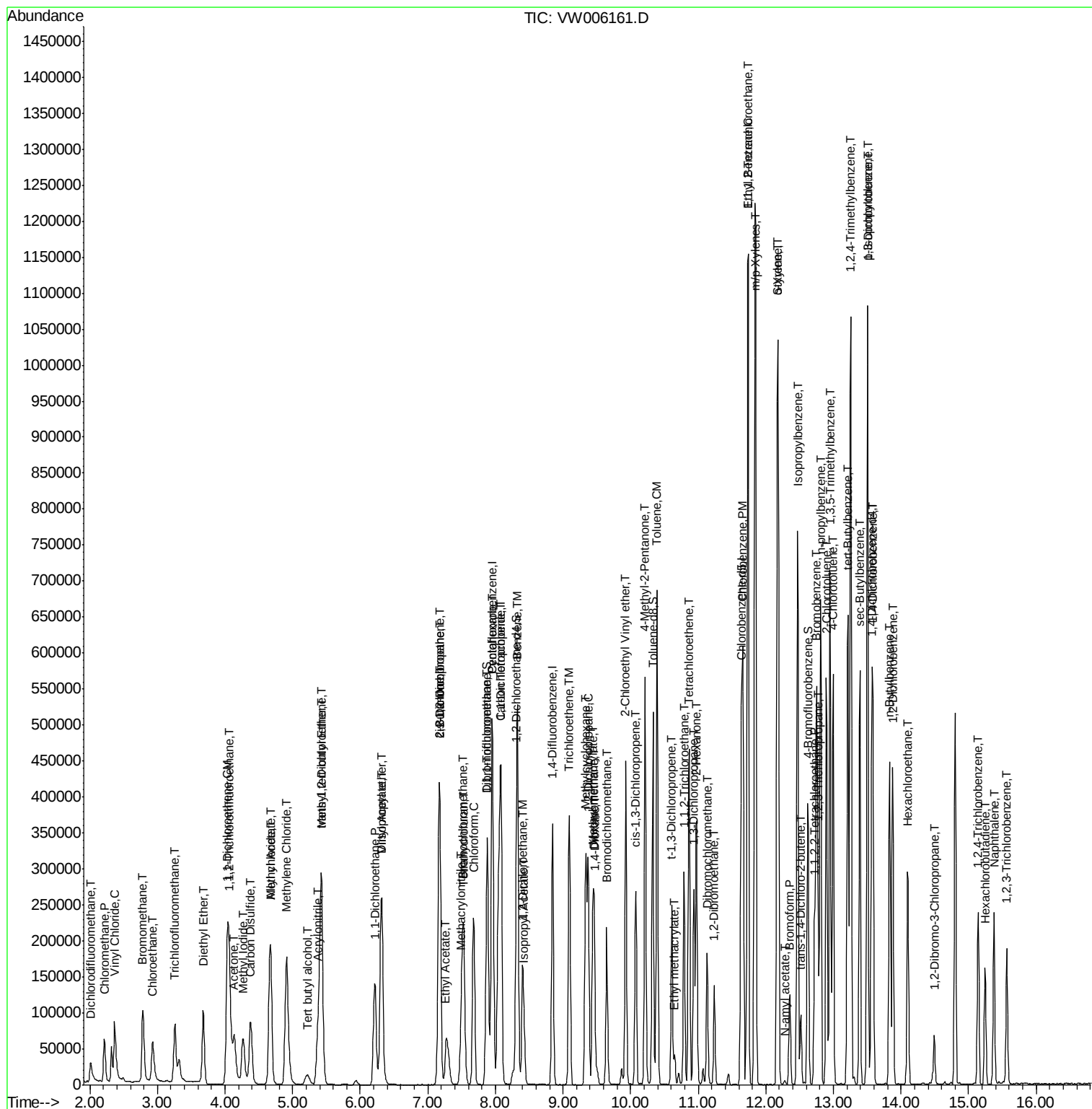
Data Path : Z:\V0ASRV\HPCHEM1\MSVOA W\DATA\VW101718\
Data File : VW006161.D
Acq On : 18 Oct 2018 08:23
Operator : VA/AP
Sample : J5565-05MS
Misc : 5.04G/5ML/MSVOA W/SOIL
ALS Vial : 48 Sample Multiplier: 1

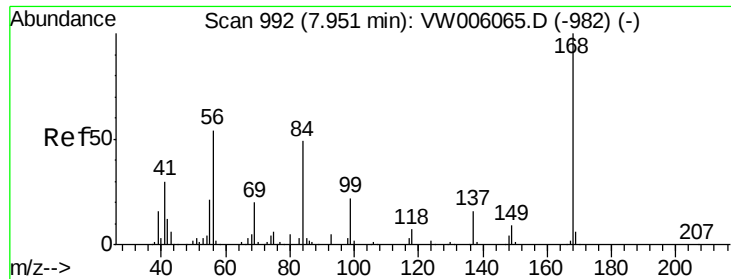
Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Manual Integrations
APPROVED

apatel
10/18/2018 4:40:24 PM

Quant Time: Oct 18 14:38:23 2018
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_W\METHOD\82W101518S.M
Quant Title : SW846 8260
QLast Update : Tue Oct 16 05:36:33 2018
Response via : Initial Calibration





#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.95 min Scan# 992

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

ClientSampled :

RLF-SD-5MS

Tot Ion:168 Resp: 217274

Ion Ratio Lower Upper

168 100

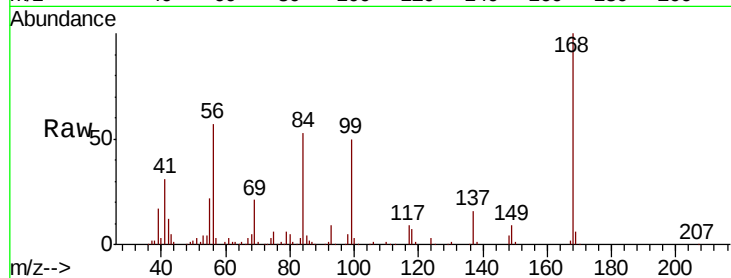
99 50.2 39.9 59.9

Manual Integrations

APPROVED

apatel

10/18/2018 4:40:24 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VW

7.95

100000

80000

60000

40000

20000

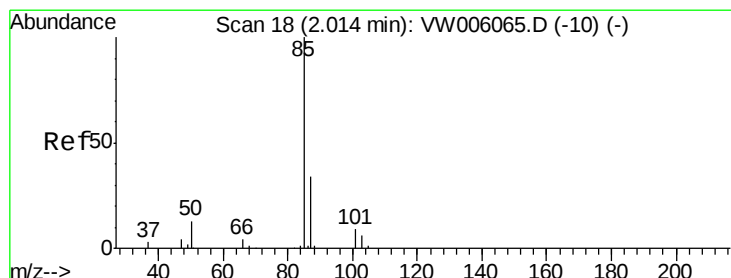
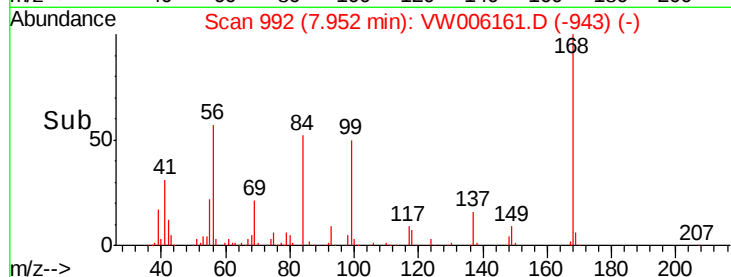
0

7.90

8.00

8.10

Time-->



#2

Dichlorodifluoromethane

Concen: 56.386 ug/l

RT: 2.01 min Scan# 18

Delta R.T. 0.00 min

Lab File: VW006161.D

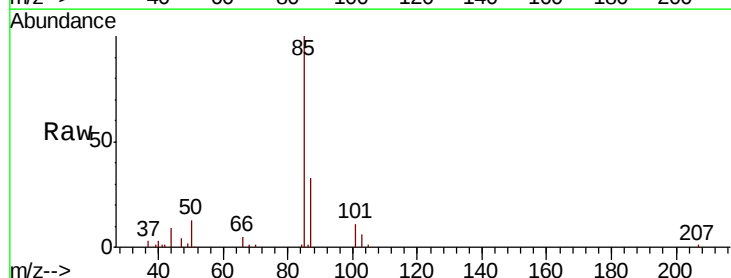
Acq: 18 Oct 2018 08:23

Tgt Ion: 85 Resp: 60626

Ion Ratio Lower Upper

85 100

87 32.6 16.9 50.6



Abundance Ion 84.90 (84.60 to 85.60): VW

Ion 86.90 (86.60 to 87.60): VW

2.01

15000

10000

5000

0

1.90

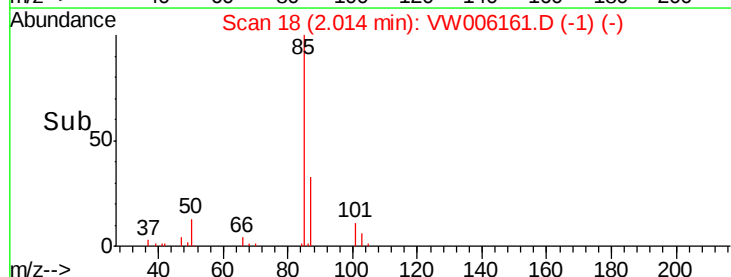
2.00

2.10

2.20

2.30

Time-->





#3

Chloromethane

Concen: 49.383 ug/l

RT: 2.21 min Scan# 51

Delta R.T. -0.01 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

ClientSampleId :

RLF-SD-5MS

Tot Ion: 50 Resp: 68347

Ion Ratio Lower Upper

50 100

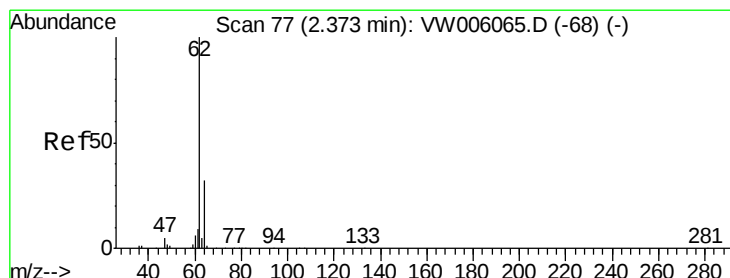
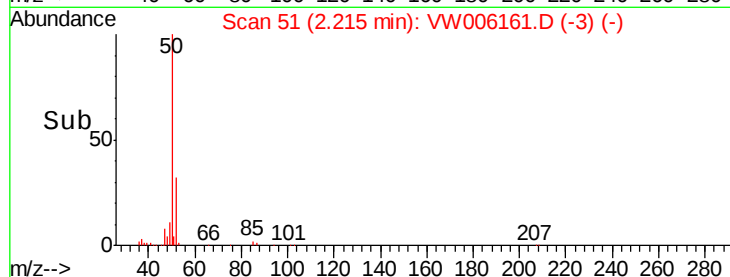
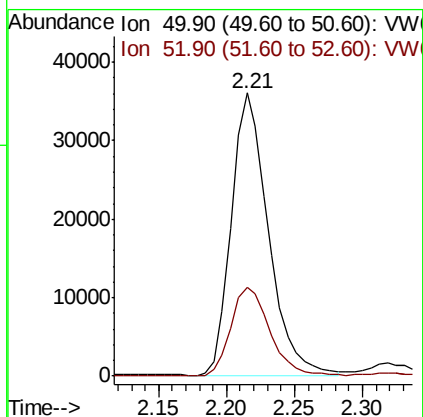
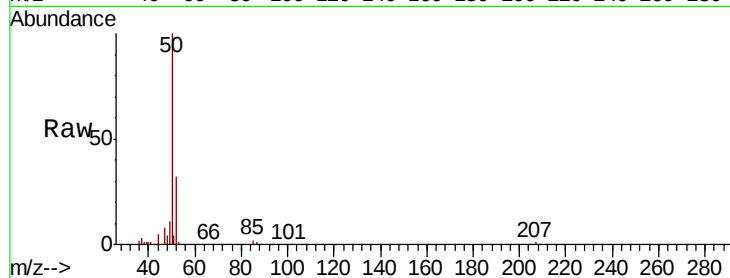
52 31.6 26.8 40.2

Manual Integrations

APPROVED

apatel

10/18/2018 4:40:24 PM



#4

Vinyl Chloride

Concen: 54.987 ug/l

RT: 2.37 min Scan# 76

Delta R.T. -0.01 min

Lab File: VW006161.D

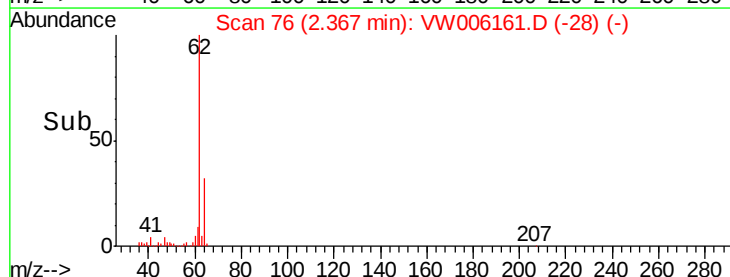
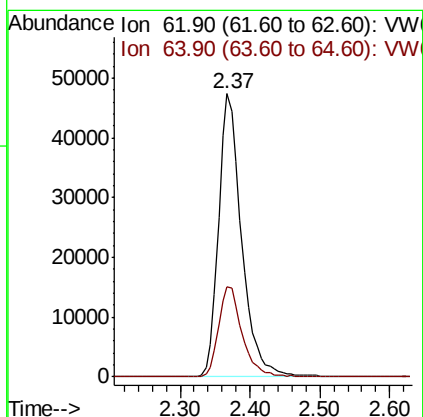
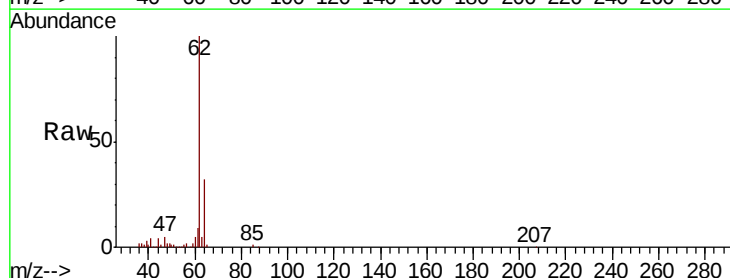
Acq: 18 Oct 2018 08:23

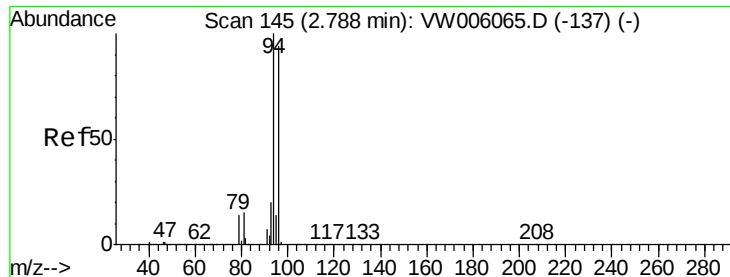
Tgt Ion: 62 Resp: 108683

Ion Ratio Lower Upper

62 100

64 31.9 25.9 38.9





#5

Bromomethane

Concen: 45.861 ug/l

RT: 2.78 min Scan# 144

Delta R.T. -0.01 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

ClientSampleId :

RLF-SD-5MS

Tot Ion: 94 Resp: 82446

Ion Ratio Lower Upper

94 100

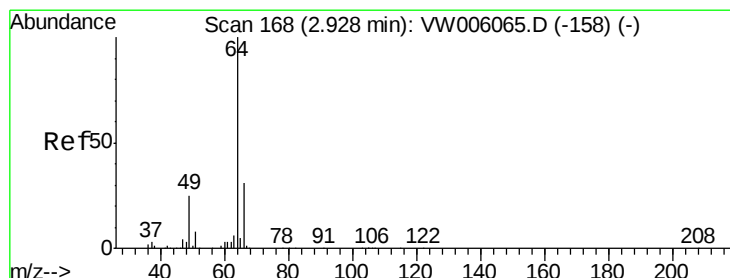
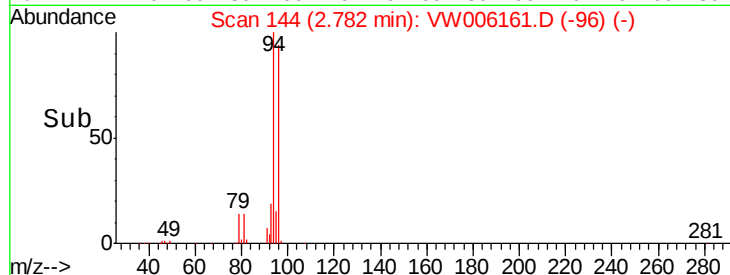
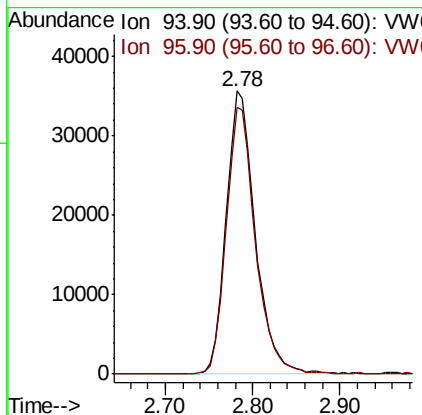
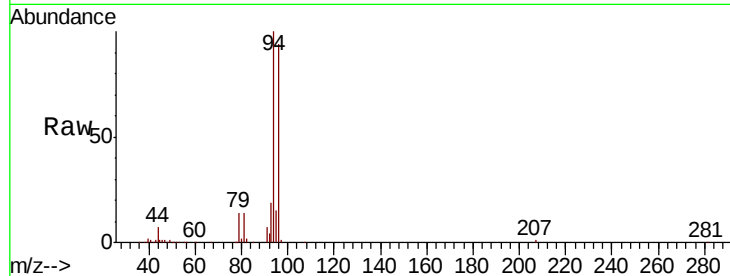
96 94.3 74.9 112.3

Manual Integrations

APPROVED

apatel

10/18/2018 4:40:24 PM



#6

Chloroethane

Concen: 54.782 ug/l

RT: 2.93 min Scan# 168

Delta R.T. 0.00 min

Lab File: VW006161.D

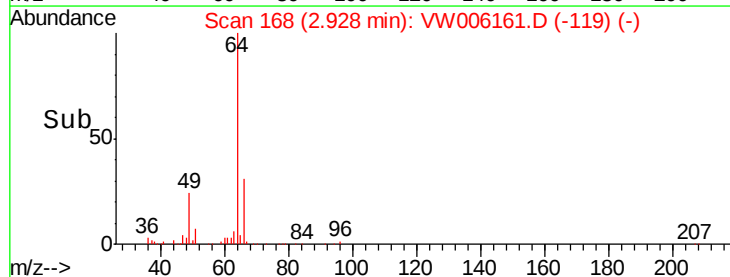
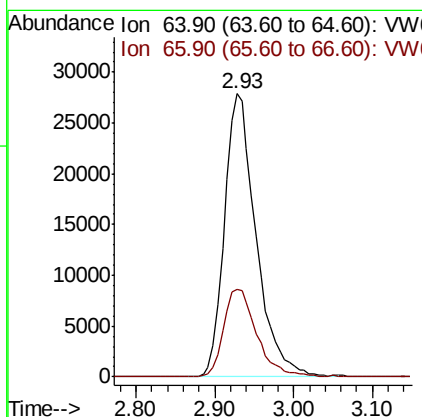
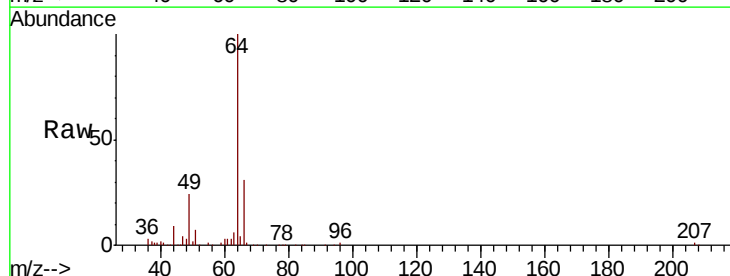
Acq: 18 Oct 2018 08:23

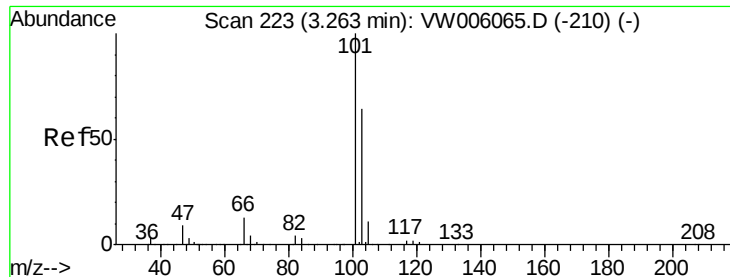
Tgt Ion: 64 Resp: 77596

Ion Ratio Lower Upper

64 100

66 31.1 24.9 37.3





#7

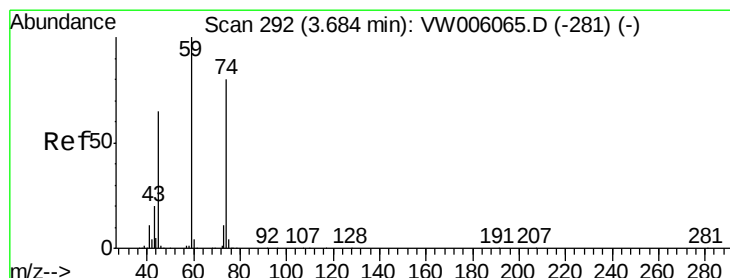
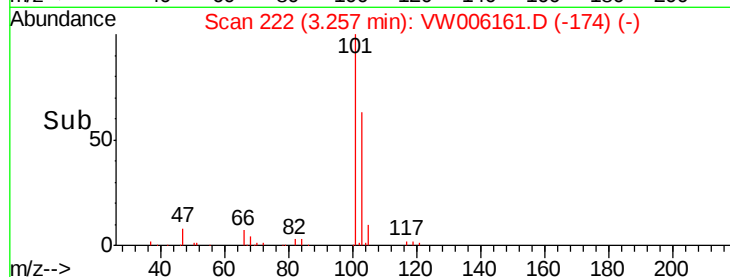
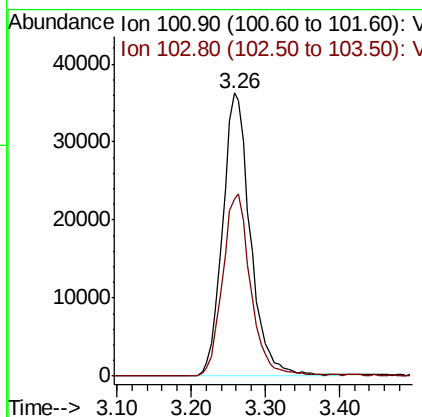
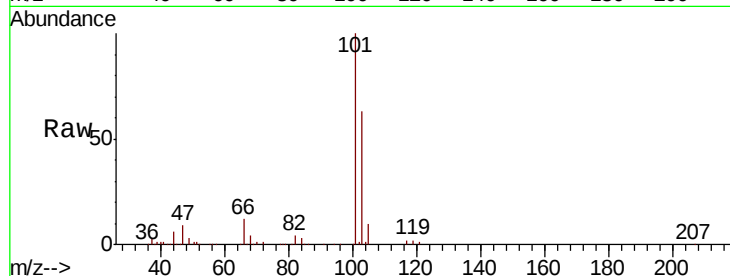
Trichlorofluoromethane
 Concen: 51.313 ug/l
 RT: 3.26 min Scan# 222
 Delta R.T. -0.01 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Instrument :
 MSVOA_W
 ClientSampleId :
 RLF-SD-5MS

Tot Ion	Ion	Ratio	Resp	Lower	Upper
101	100		94481		
103	62.5	51.2	76.8		

Manual Integrations
 APPROVED

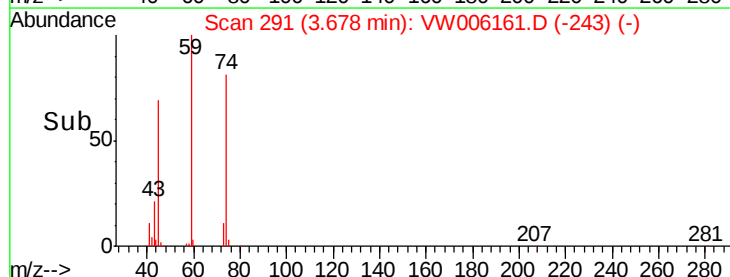
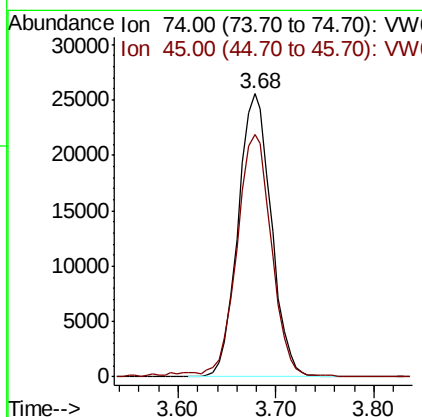
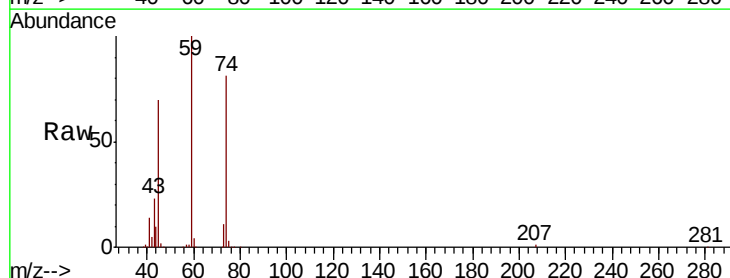
apatel
 10/18/2018 4:40:24 PM



#8

Diethyl Ether
 Concen: 61.356 ug/l
 RT: 3.68 min Scan# 291
 Delta R.T. -0.01 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
74	100		60041		
45	90.8	42.8	128.3		





#9

1,1,2-Trichlorotrifluoroethane

Concen: 54.046 ug/l

RT: 4.06 min Scan# 354

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

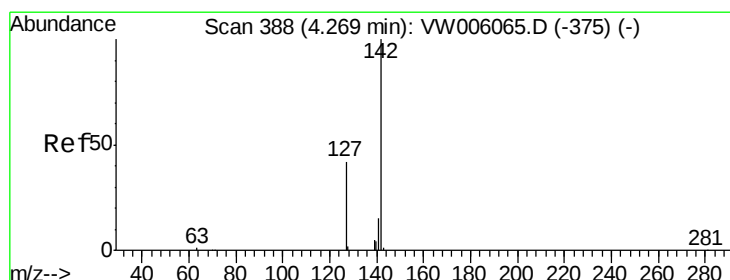
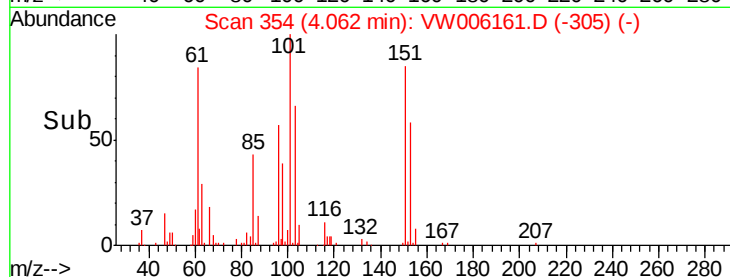
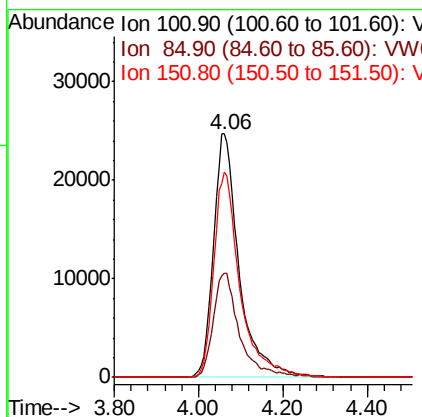
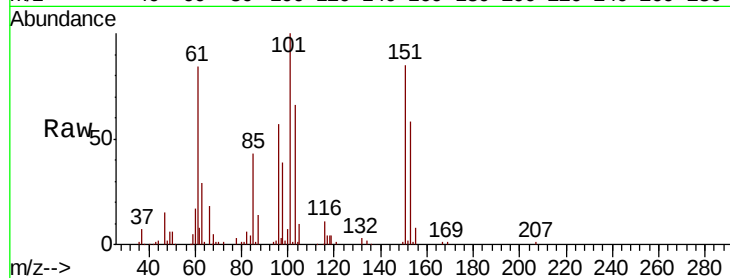
ClientSampleId :

RLF-SD-5MS

Tot Ion:	101	Resp:	104288
Ion Ratio	Lower	Upper	
101	100		
85	43.4	34.9	52.3
151	86.1	70.4	105.6

Manual Integrations
APPROVED

apatel
10/18/2018 4:40:24 PM



#10

Methyl Iodide

Concen: 41.033 ug/l

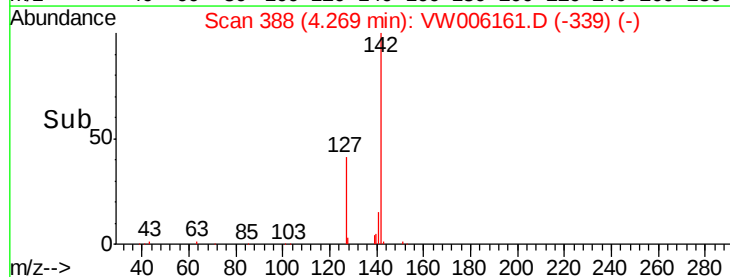
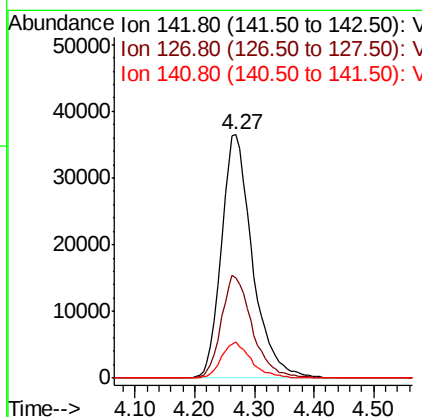
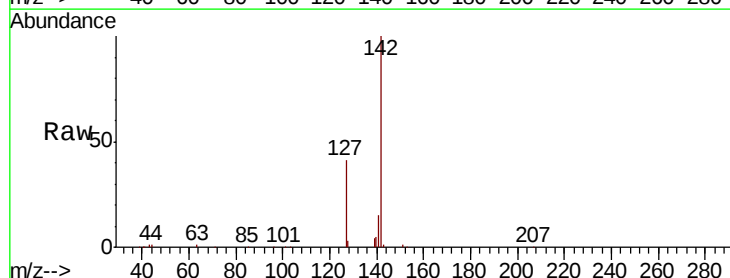
RT: 4.27 min Scan# 388

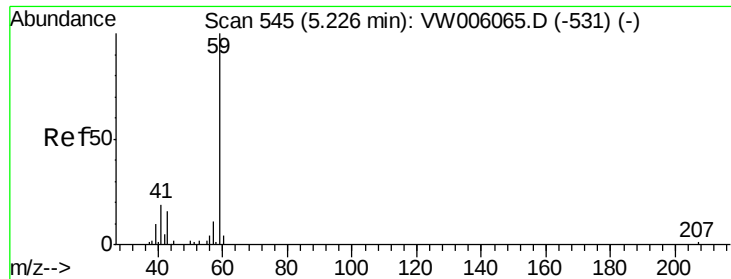
Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Tgt Ion:	142	Resp:	131784
Ion Ratio	Lower	Upper	
142	100		
127	42.2	33.6	50.4
141	14.2	11.6	17.4





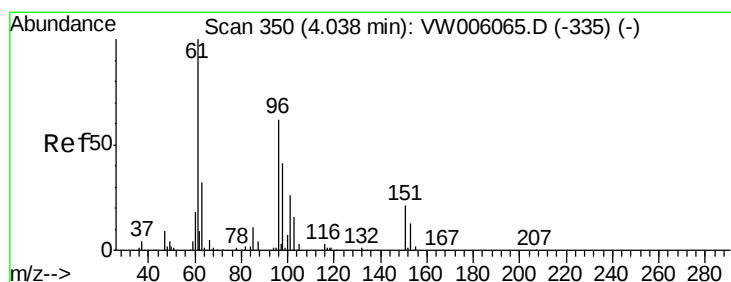
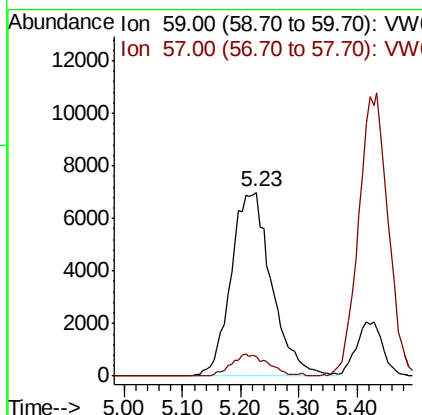
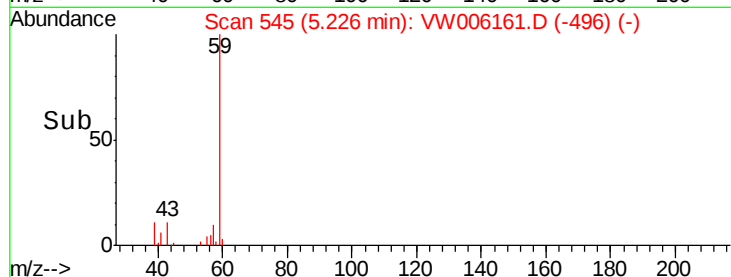
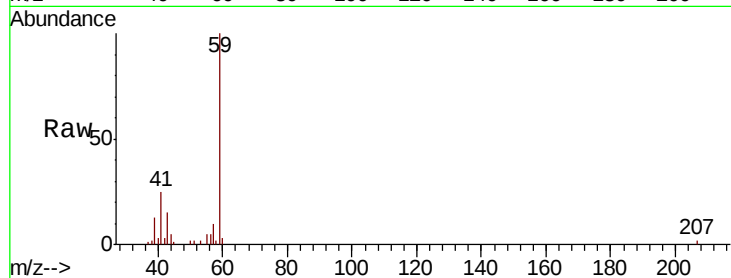
#11
Tert butyl alcohol
Concen: 279.471 ug/l
RT: 5.23 min Scan# 545
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion: 59 Resp: 33857
Ion Ratio Lower Upper
59 100
57 10.7 8.7 13.1

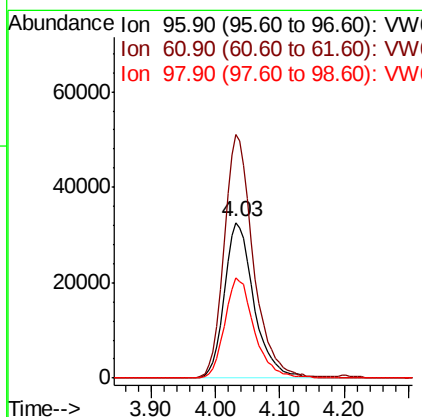
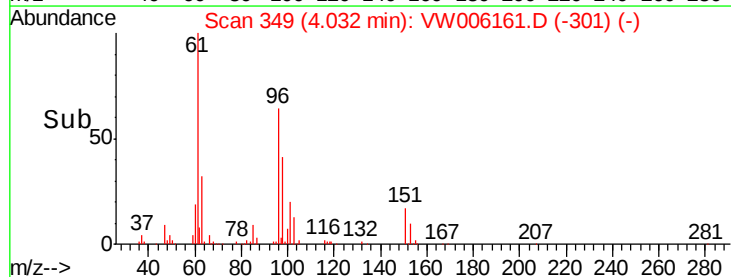
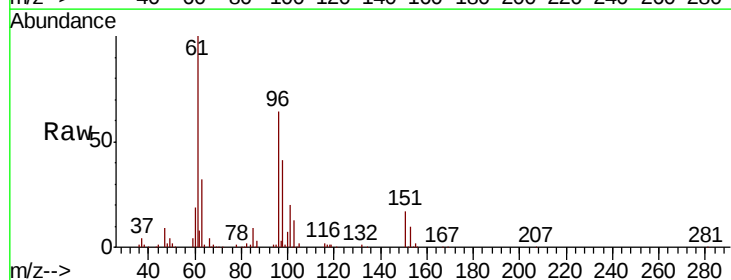
Manual Integrations
APPROVED

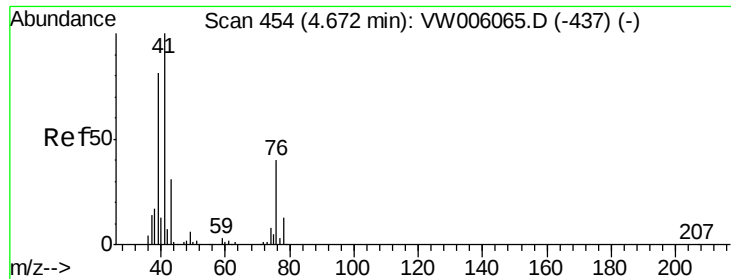
apatel
10/18/2018 4:40:24 PM



#12
1,1-Dichloroethene
Concen: 57.902 ug/l
RT: 4.03 min Scan# 349
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion: 96 Resp: 105116
Ion Ratio Lower Upper
96 100
61 156.6 129.3 193.9
98 64.4 53.1 79.7





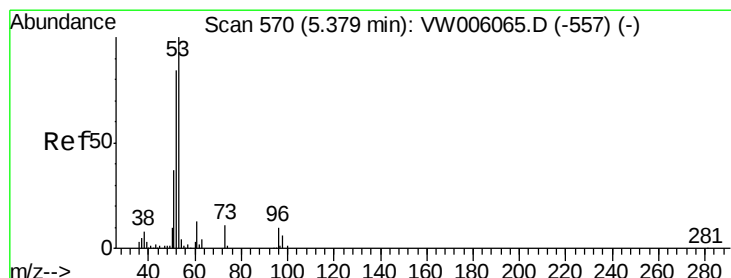
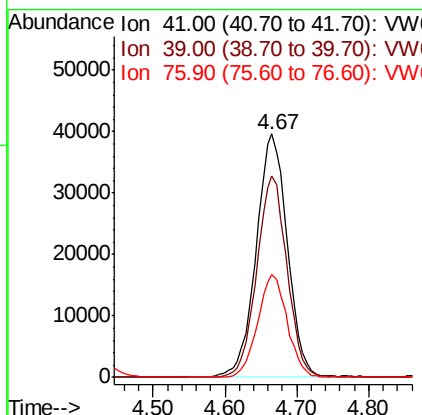
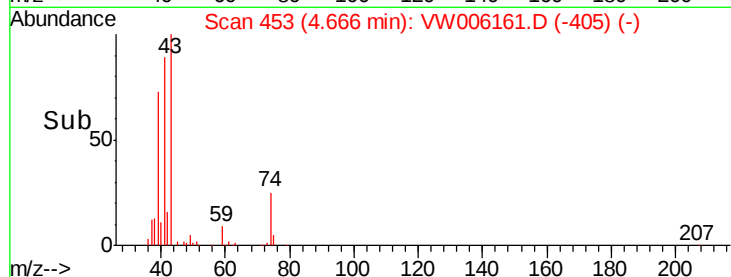
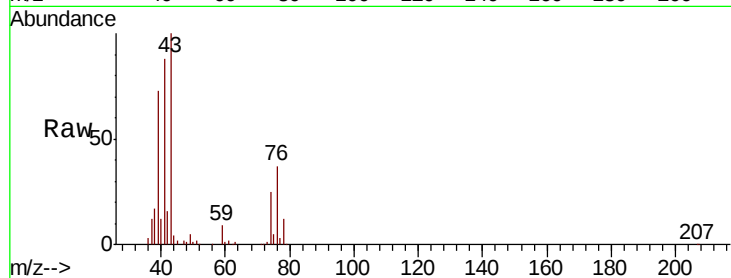
#14
Allvl chloride
Concen: 45.918 ug/l
RT: 4.67 min Scan# 453
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion:	41	Resp:	119190
Ion Ratio		Lower	Upper
41	100		
39	80.3	64.1	96.1
76	39.9	32.2	48.4

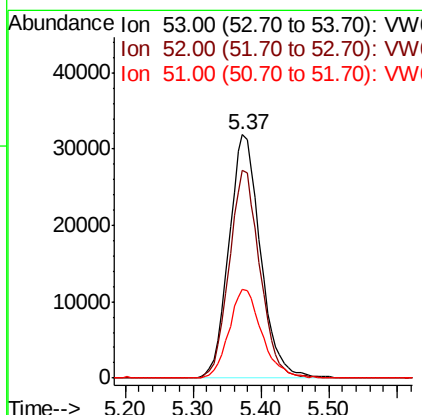
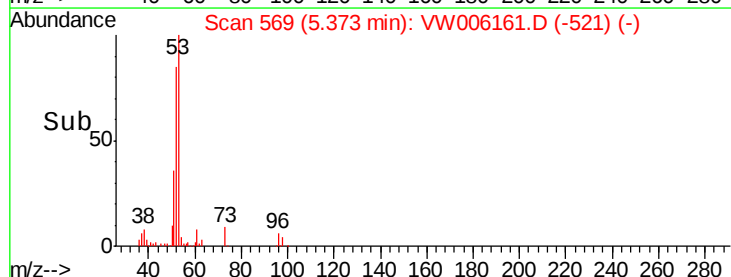
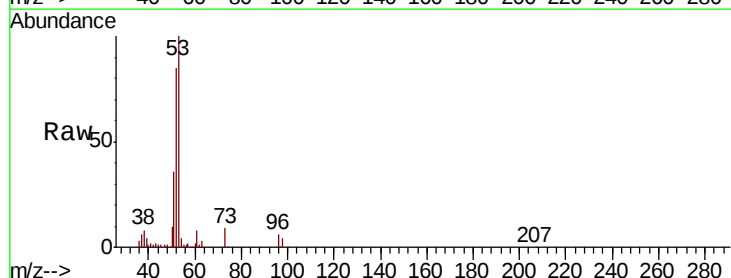
Manual Integrations
APPROVED

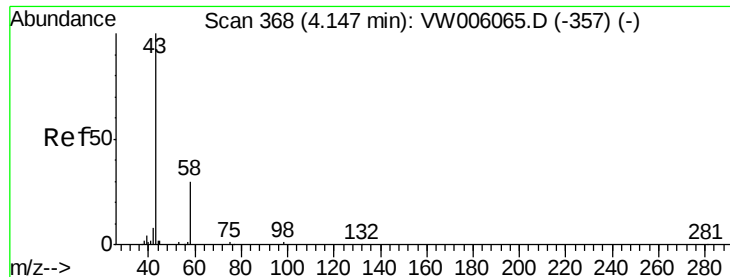
apatel
10/18/2018 4:40:24 PM



#15
Acrylonitrile
Concen: 292.206 ug/l
RT: 5.37 min Scan# 569
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion:	53	Resp:	102560
Ion Ratio		Lower	Upper
53	100		
52	83.0	66.9	100.3
51	37.8	30.1	45.1





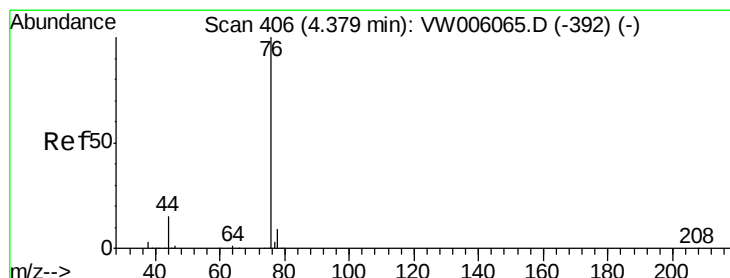
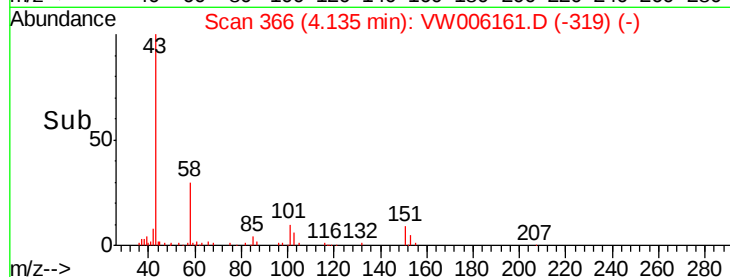
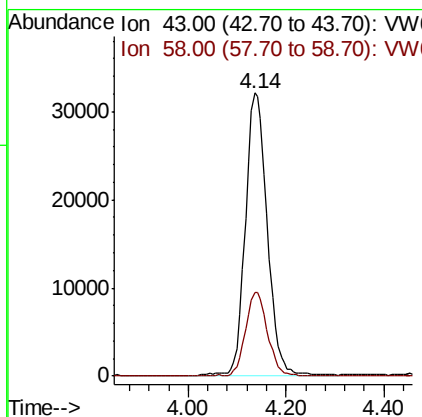
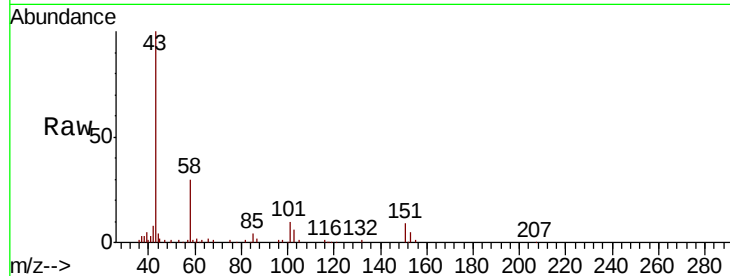
#16
Acetone
Concen: 300.547 ug/l
RT: 4.14 min Scan# 366
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion: 43 Resp: 100555
Ion Ratio Lower Upper
43 100
58 29.6 24.0 36.0

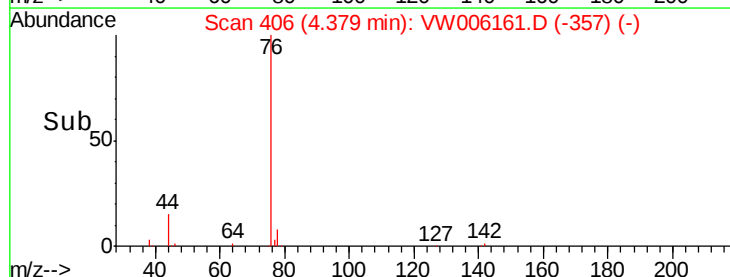
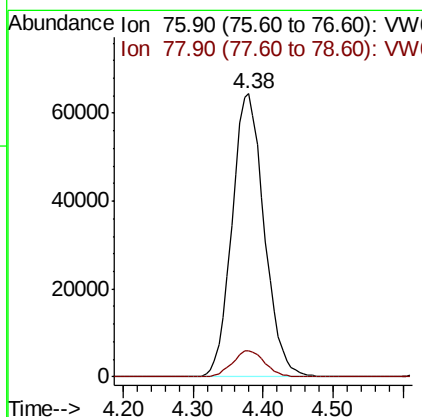
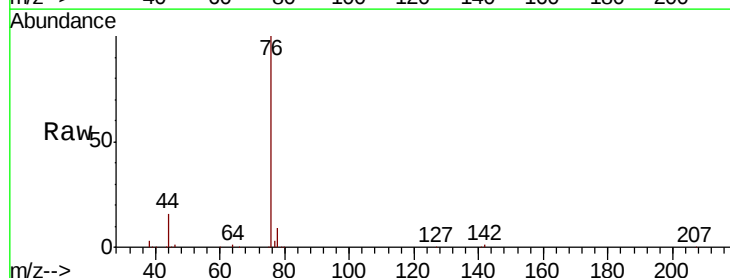
Manual Integrations
APPROVED

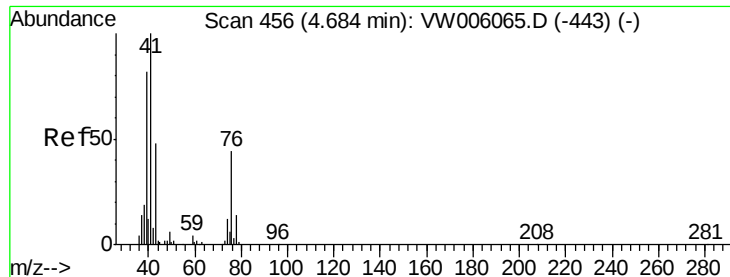
apatel
10/18/2018 4:40:24 PM



#17
Carbon Disulfide
Concen: 37.594 ug/l
RT: 4.38 min Scan# 406
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion: 76 Resp: 205978
Ion Ratio Lower Upper
76 100
78 9.2 7.5 11.3





#18

Methyl Acetate

Concen: 165.492 ug/l

RT: 4.67 min Scan# 454

Delta R.T. -0.01 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

ClientSampleId :

RLF-SD-5MS

Tot Ion: 43 Resp: 150019

Ion Ratio Lower Upper

43 100

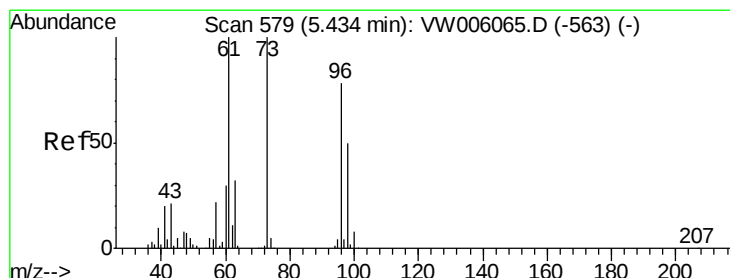
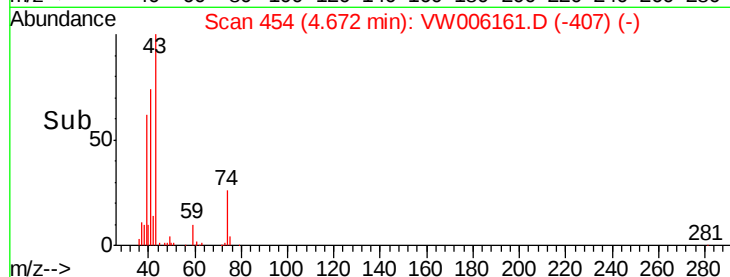
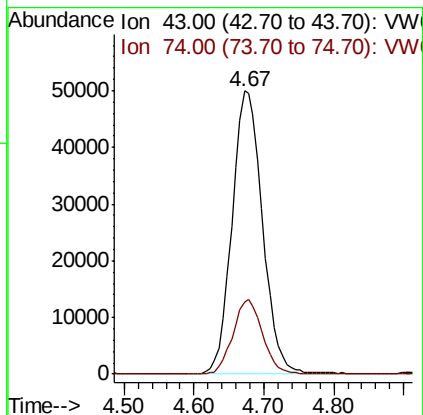
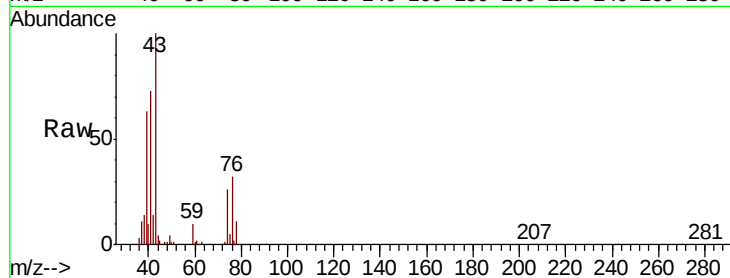
74 25.8 20.5 30.7

Manual Integrations

APPROVED

apatel

10/18/2018 4:40:24 PM



#19

Methyl tert-butyl Ether

Concen: 65.718 ug/l

RT: 5.43 min Scan# 578

Delta R.T. -0.01 min

Lab File: VW006161.D

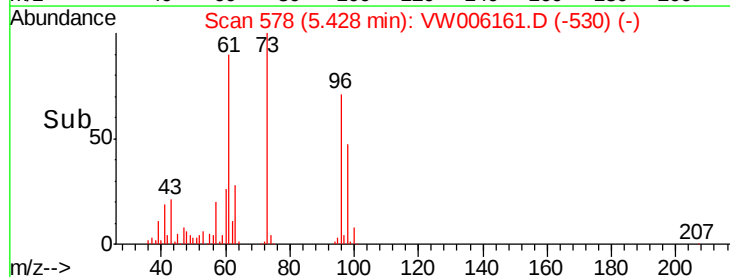
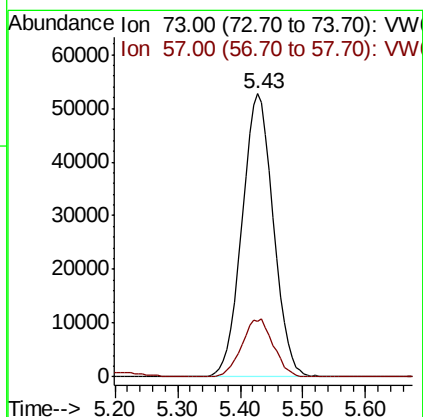
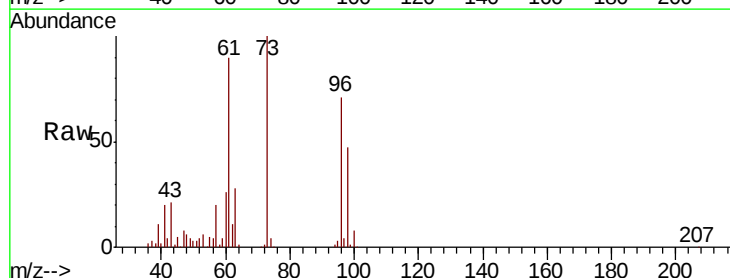
Acq: 18 Oct 2018 08:23

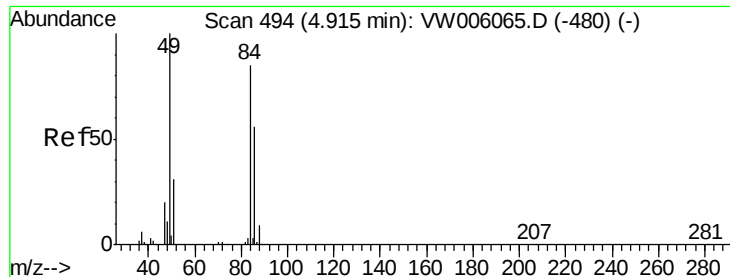
Tgt Ion: 73 Resp: 181713

Ion Ratio Lower Upper

73 100

57 19.5 17.4 26.2





#20

Methylene Chloride

Concen: 82.917 ug/l

RT: 4.91 min Scan# 493

Delta R.T. -0.01 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

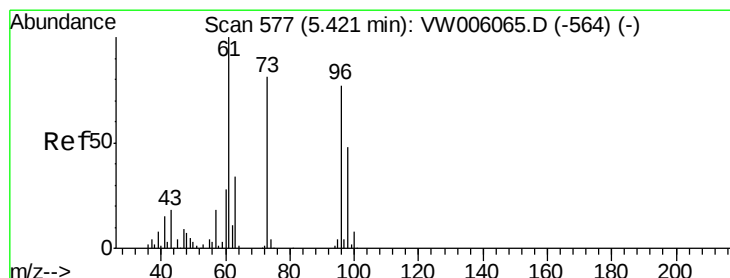
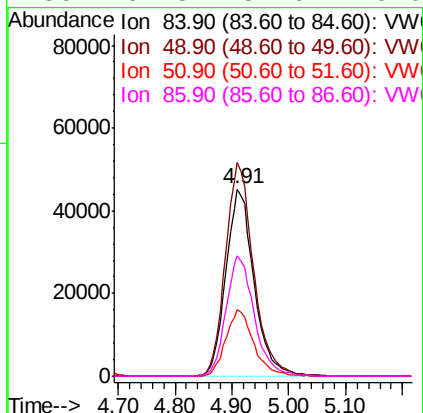
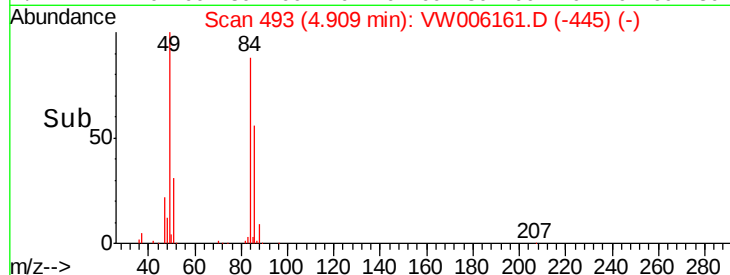
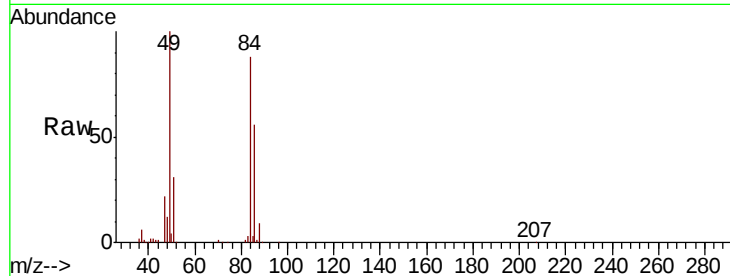
ClientSampleId :

RLF-SD-5MS

Tot Ion:	84	Resp:	155998
Ion	Ratio	Lower	Upper
84	100		
49	114.3	93.6	140.4
51	35.5	29.0	43.4
86	64.3	52.6	79.0

Manual Integrations
APPROVED

apatel
10/18/2018 4:40:24 PM



#21

trans-1,2-Dichloroethene

Concen: 57.738 ug/l

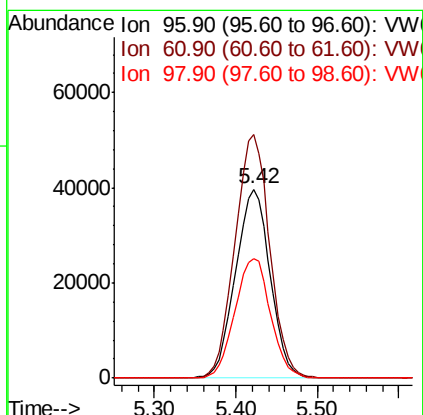
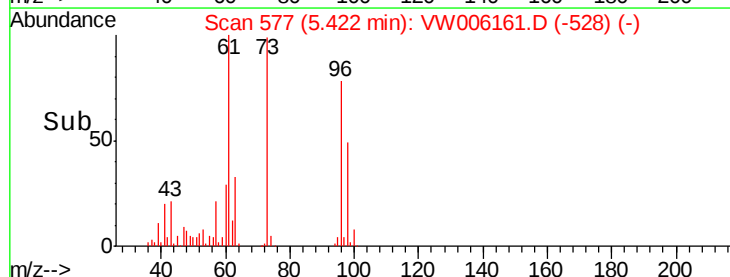
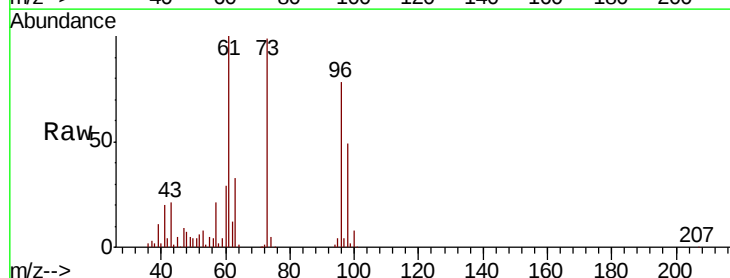
RT: 5.42 min Scan# 577

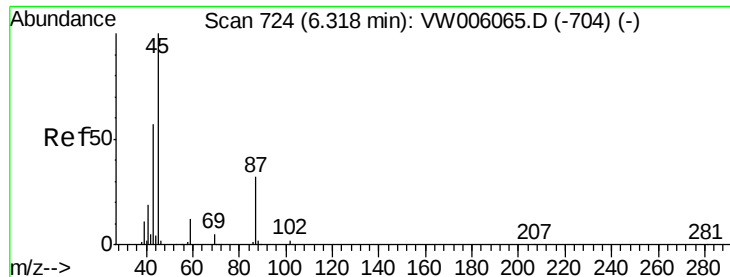
Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Tgt Ion:	96	Resp:	116996
Ion	Ratio	Lower	Upper
96	100		
61	128.7	104.5	156.7
98	63.1	50.6	75.8





#22

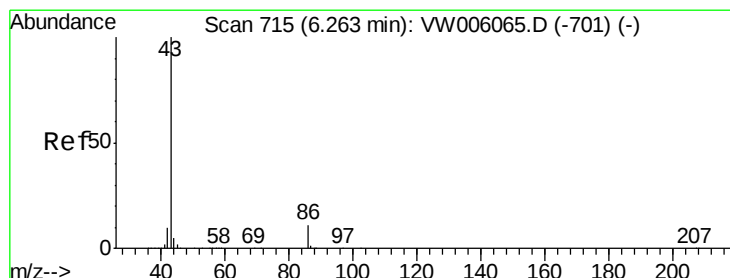
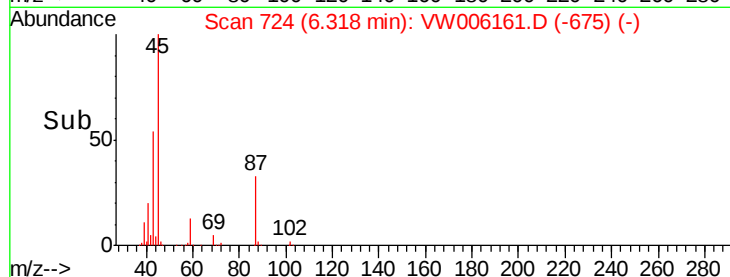
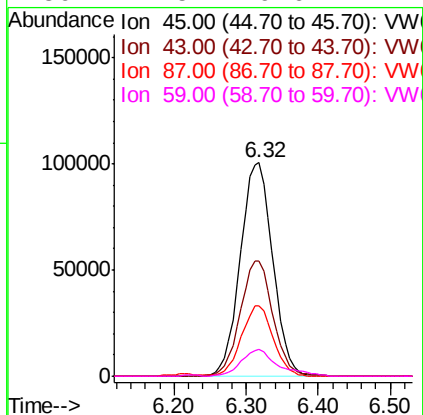
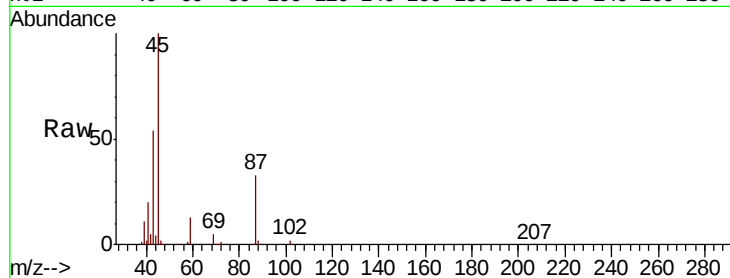
Diisopropyl ether
 Concen: 61.341 ug/l
 RT: 6.32 min Scan# 724
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Instrument :
 MSVOA_W
 ClientSampleId :
 RLF-SD-5MS

Tot Ion	45	Resp	314650
Ion Ratio	Lower	Upper	
45	100		
43	54.1	45.7	68.5
87	33.1	25.9	38.9
59	12.5	9.6	14.4

Manual Integrations
 APPROVED

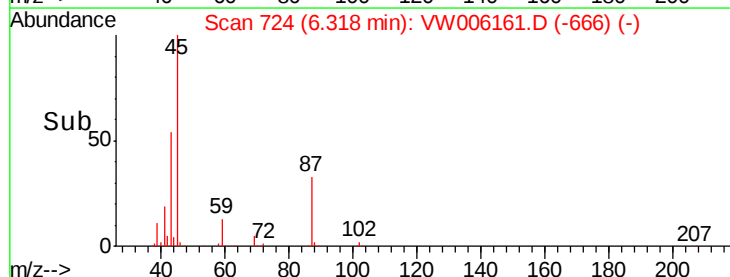
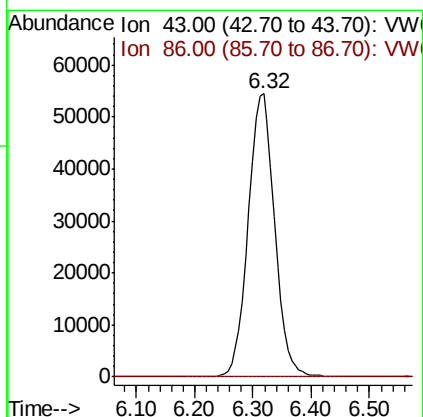
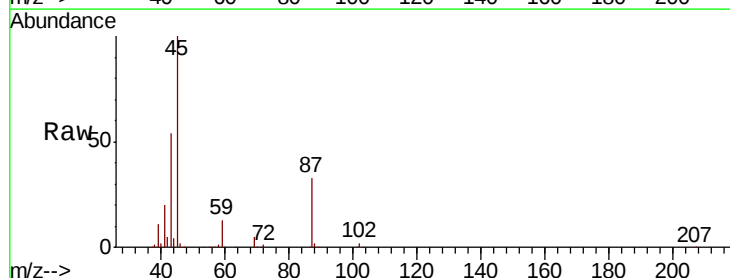
apatel
 10/18/2018 4:40:24 PM

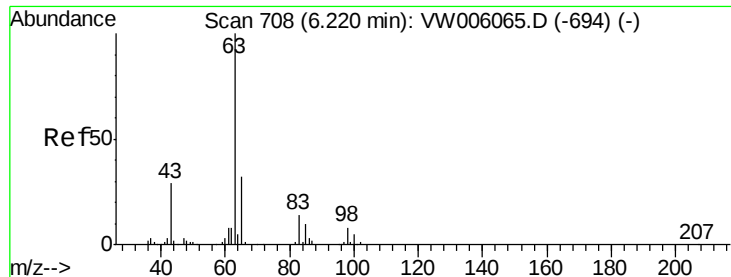


#23

Vinyl Acetate
 Concen: 56.660 ug/l
 RT: 6.32 min Scan# 724
 Delta R.T. 0.05 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Tgt Ion	43	Resp	171523
Ion Ratio	Lower	Upper	
43	100		
86	0.4	9.0	13.6#





#24

1,1-Dichloroethane

Concen: 61.042 ug/l

RT: 6.21 min Scan# 707

Delta R.T. -0.01 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

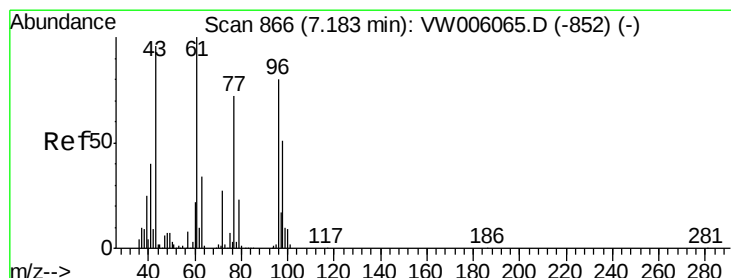
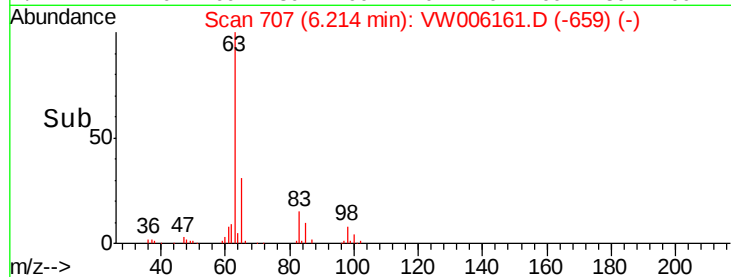
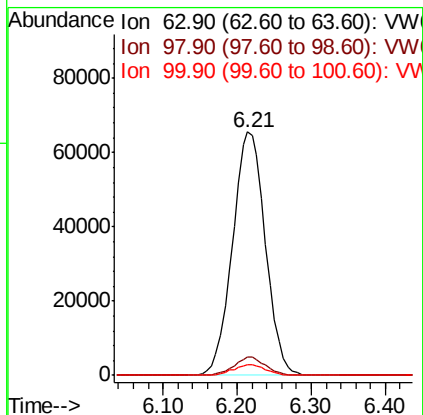
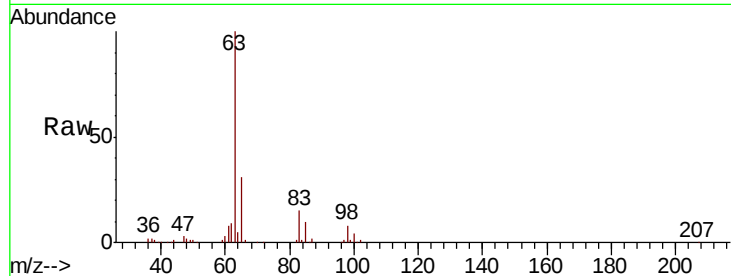
ClientSampleId :

RLF-SD-5MS

Tot Ion:	63	Resp:	202043
Ion Ratio	Lower	Upper	
63	100		
98	7.7	3.8	11.2
100	4.4	2.5	7.5

Manual Integrations
APPROVED

apatel
10/18/2018 4:40:24 PM



#25

2-Butanone

Concen: 287.521 ug/l

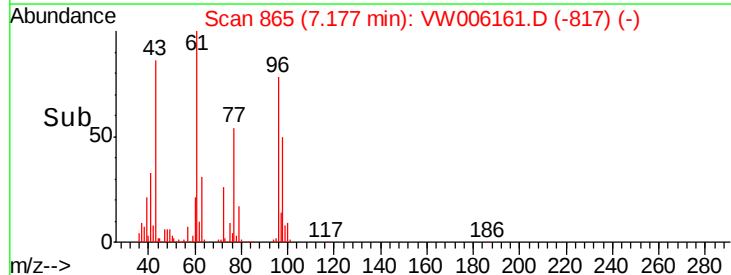
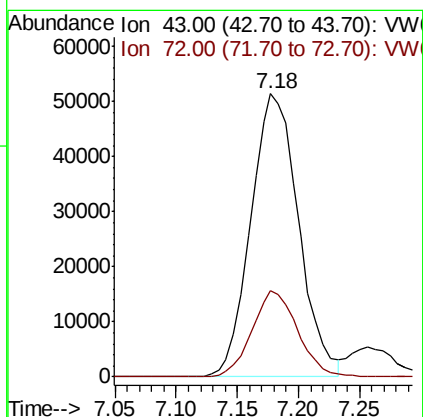
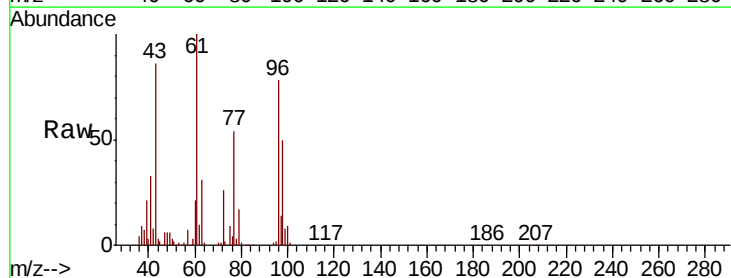
RT: 7.18 min Scan# 865

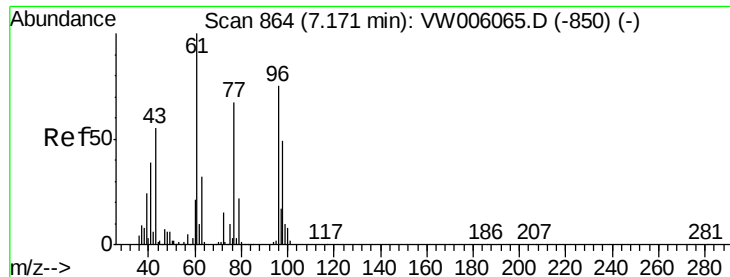
Delta R.T. -0.01 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Tgt Ion:	43	Resp:	139915
Ion Ratio	Lower	Upper	
43	100		
72	30.6	22.8	34.2





#26

2,2-Dichloropropane

Concen: 45.065 ug/l

RT: 7.17 min Scan# 863

Delta R.T. -0.01 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

ClientSampleId :

RLF-SD-5MS

Tot Ion: 77 Resp: 105203

Ion Ratio Lower Upper

77 100

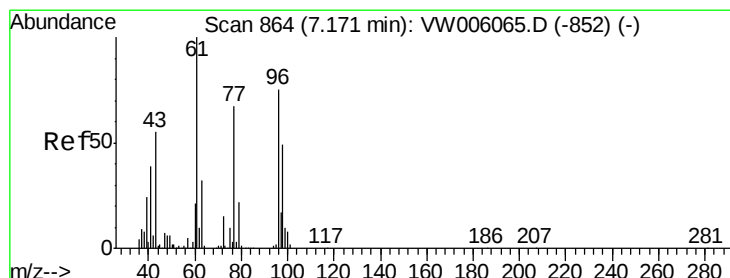
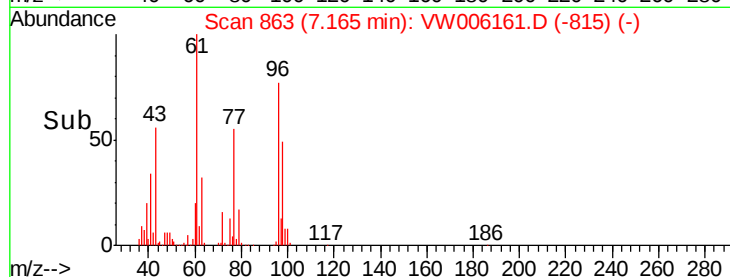
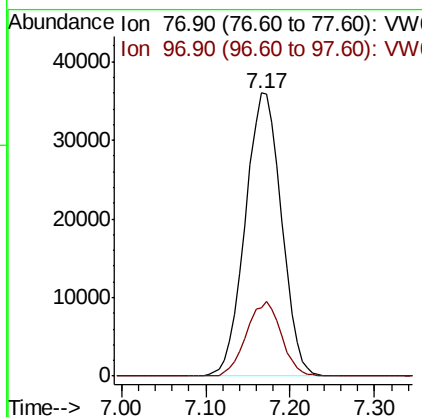
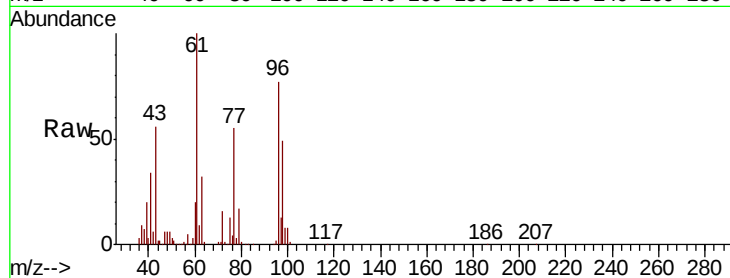
97 25.4 12.2 36.4

Manual Integrations

APPROVED

apatel

10/18/2018 4:40:24 PM



#27

cis-1,2-Dichloroethene

Concen: 60.339 ug/l

RT: 7.17 min Scan# 864

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

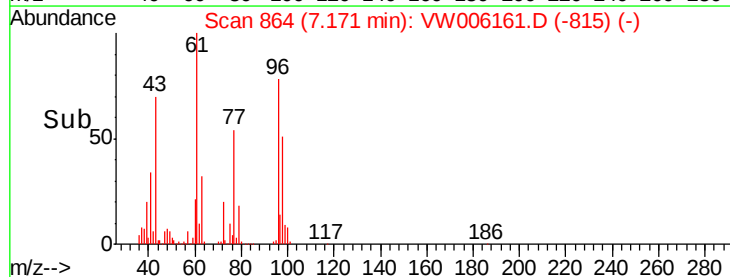
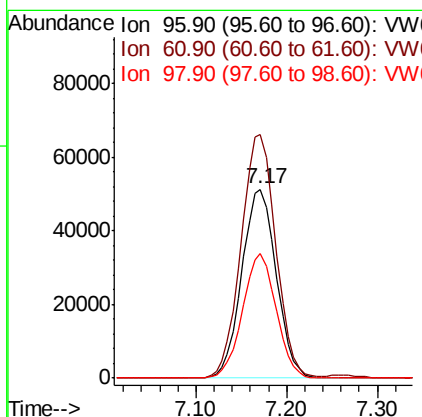
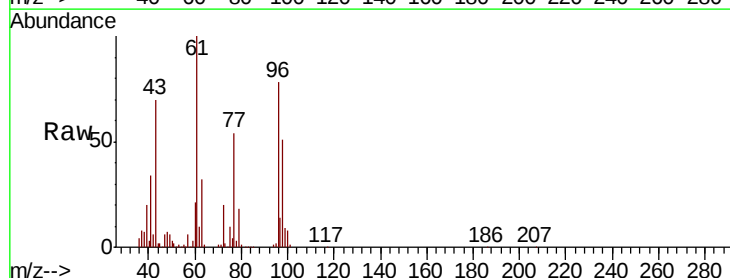
Tgt Ion: 96 Resp: 134926

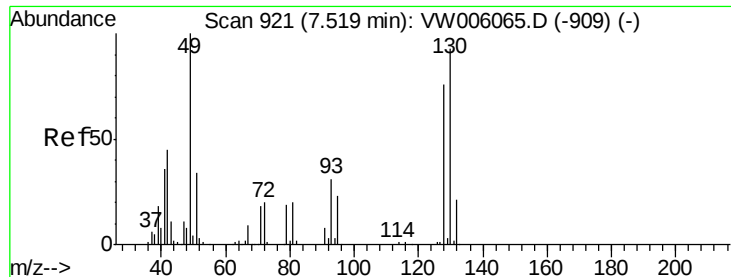
Ion Ratio Lower Upper

96 100

61 130.2 0.0 267.2

98 64.2 0.0 128.6





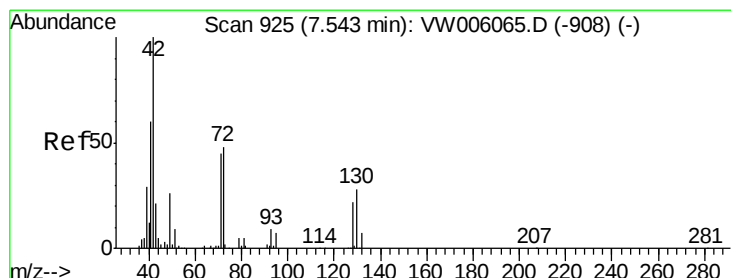
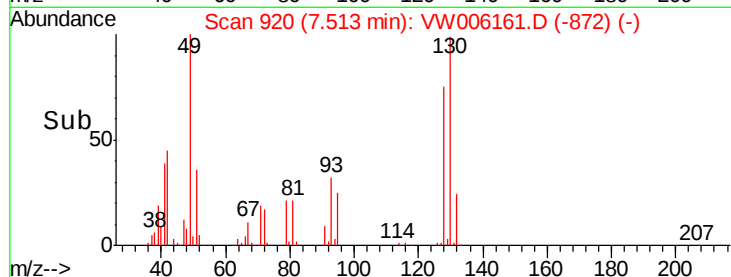
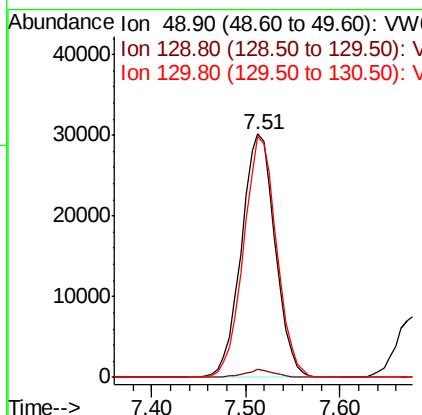
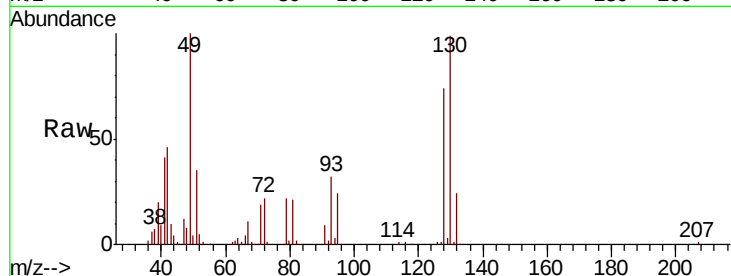
#28
Bromochloromethane
Concen: 59.349 ug/l
RT: 7.51 min Scan# 920
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion: 49 Resp: 75837
Ion Ratio Lower Upper
49 100
129 2.8 0.0 5.0
130 96.3 73.8 110.8

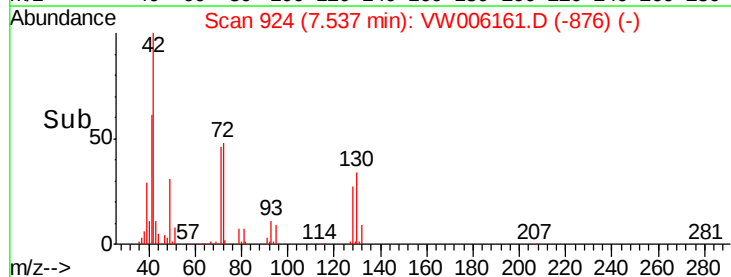
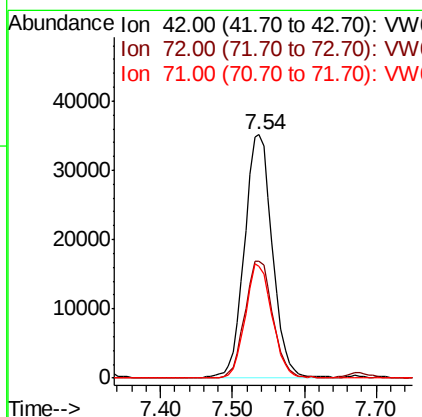
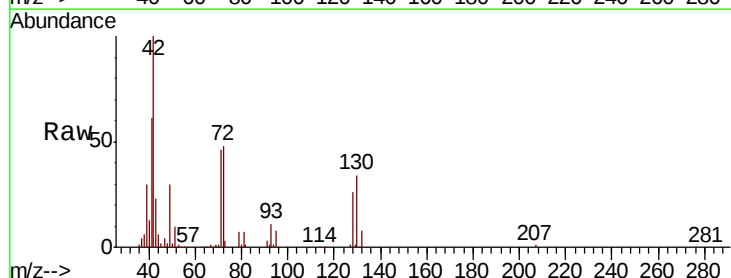
Manual Integrations
APPROVED

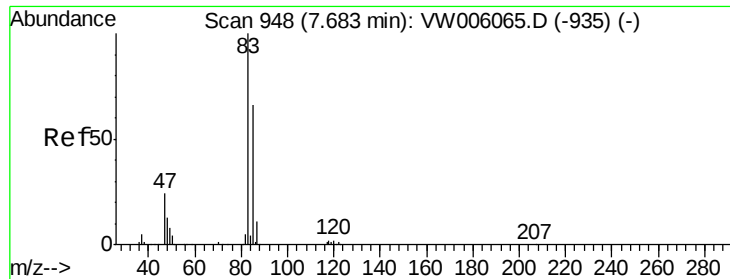
apatel
10/18/2018 4:40:24 PM



#29
Tetrahydrofuran
Concen: 317.411 ug/l
RT: 7.54 min Scan# 924
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion: 42 Resp: 94943
Ion Ratio Lower Upper
42 100
72 48.0 38.0 57.0
71 44.9 35.3 52.9





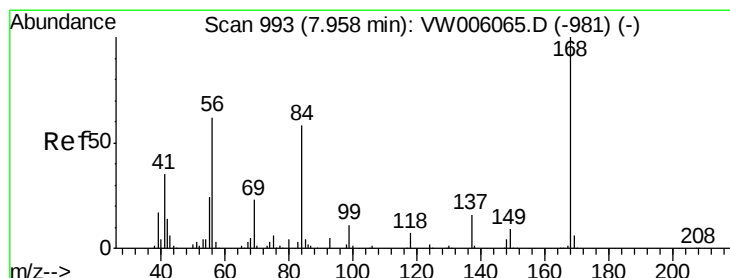
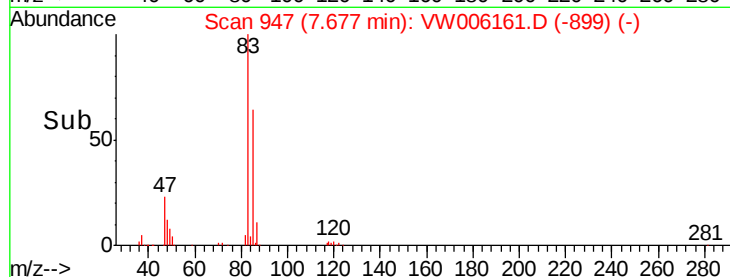
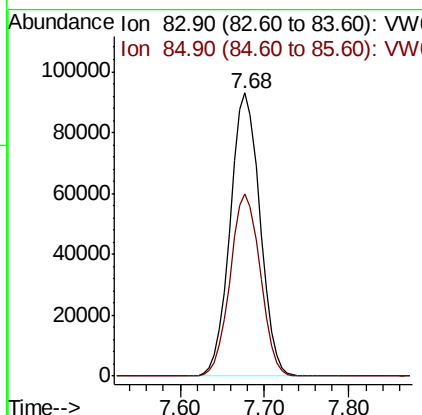
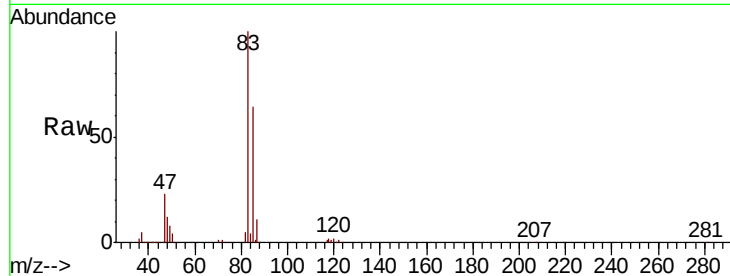
#30
Chloroform
Concen: 61.538 ug/l
RT: 7.68 min Scan# 947
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion: 83 Resp: 221915
Ion Ratio Lower Upper
83 100
85 64.2 52.6 79.0

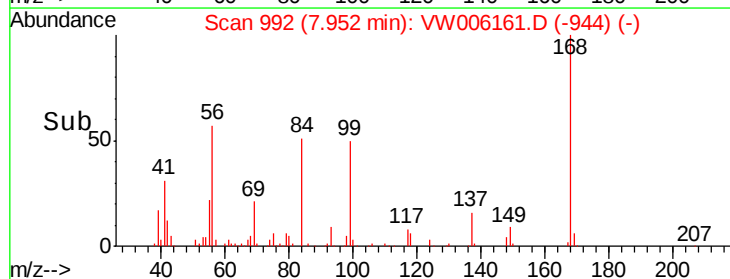
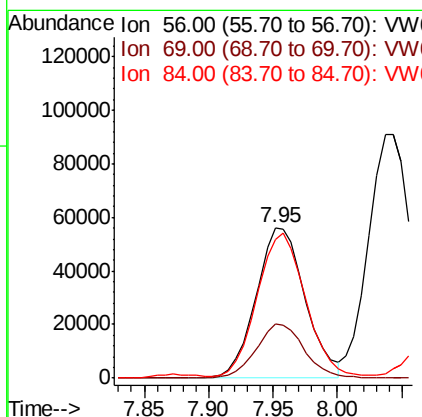
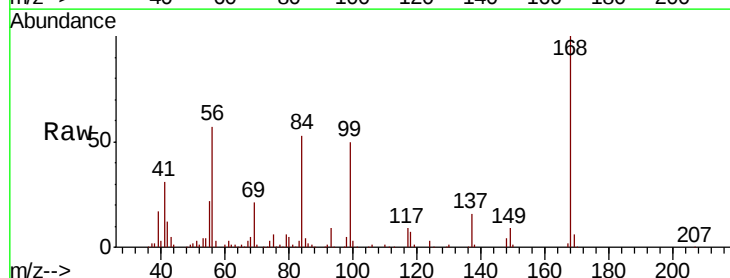
Manual Integrations
APPROVED

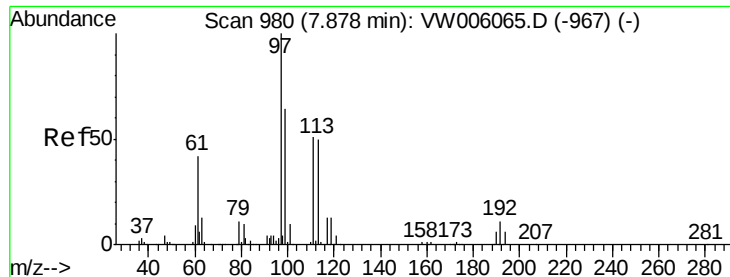
apatel
10/18/2018 4:40:24 PM



#31
Cyclohexane
Concen: 44.848 ug/l
RT: 7.95 min Scan# 992
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion: 56 Resp: 147828
Ion Ratio Lower Upper
56 100
69 36.4 29.4 44.0
84 90.5 74.0 111.0





#32

1,1,1-Trichloroethane

Concen: 56.255 ug/l

RT: 7.87 min Scan# 979

Delta R.T. -0.01 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

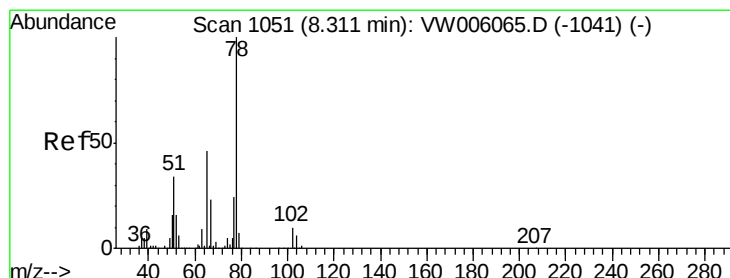
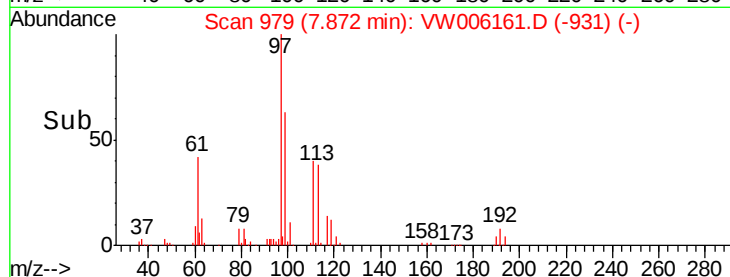
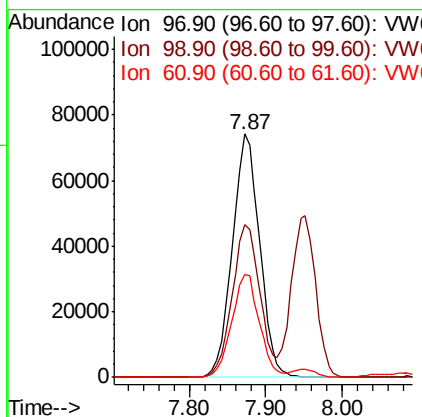
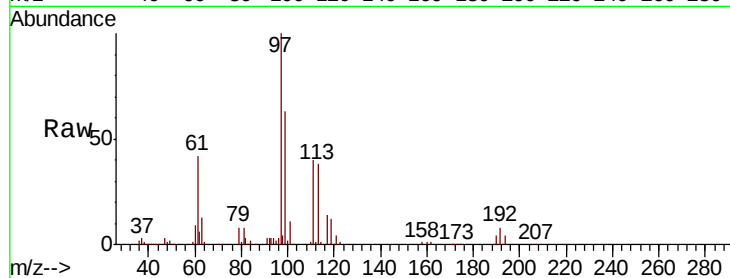
ClientSampleId :

RLF-SD-5MS

Tot Ion:	97	Resp:	182996
Ion	Ratio	Lower	Upper
97	100		
99	64.1	50.9	76.3
61	43.0	33.7	50.5

Manual Integrations
APPROVED

apatel
10/18/2018 4:40:24 PM



#33

1,2-Dichloroethane-d4

Concen: 56.307 ug/l

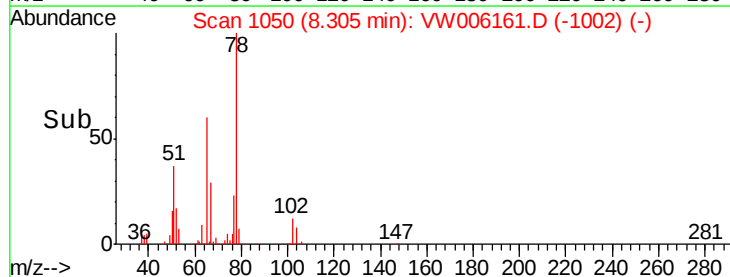
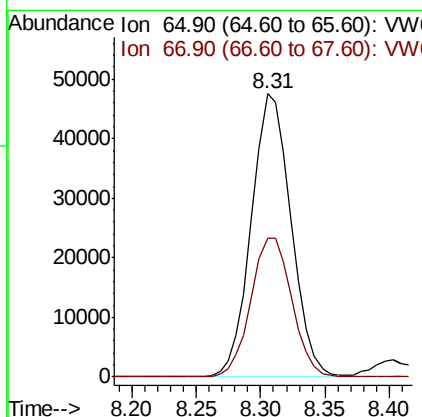
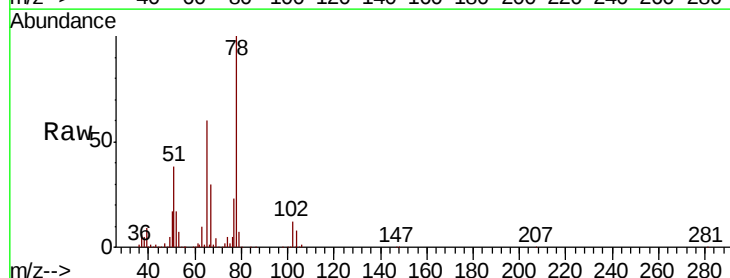
RT: 8.31 min Scan# 1050

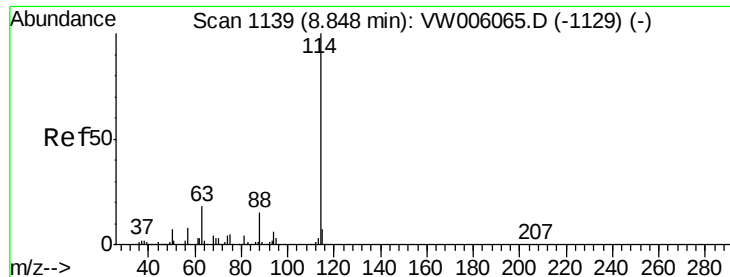
Delta R.T. -0.01 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Tgt Ion:	65	Resp:	101427
Ion	Ratio	Lower	Upper
65	100		
67	50.9	0.0	101.0





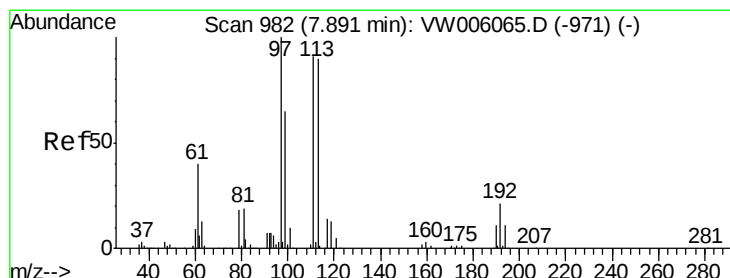
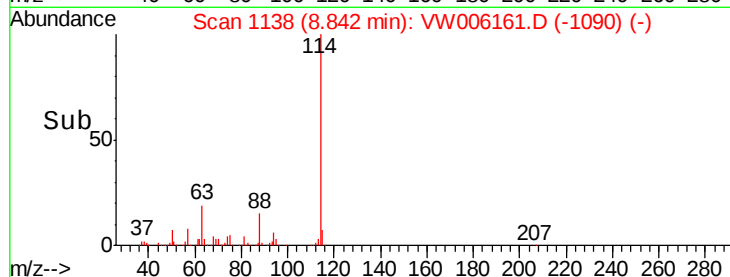
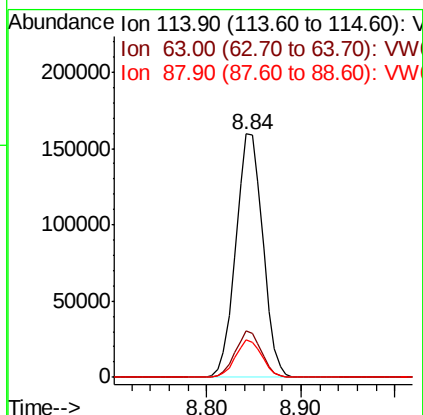
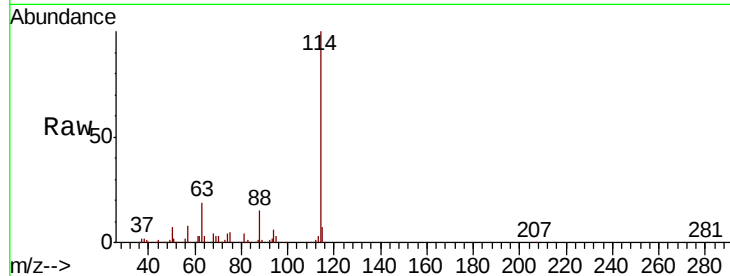
#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.84 min Scan# 1138
 Delta R.T. -0.01 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Instrument :
 MSVOA_W
 ClientSampleId :
 RLF-SD-5MS

Tot Ion	Ratio	Resp	Lower	Upper
114	100	319334		
63	19.3		0.0	36.8
88	15.3		0.0	29.0

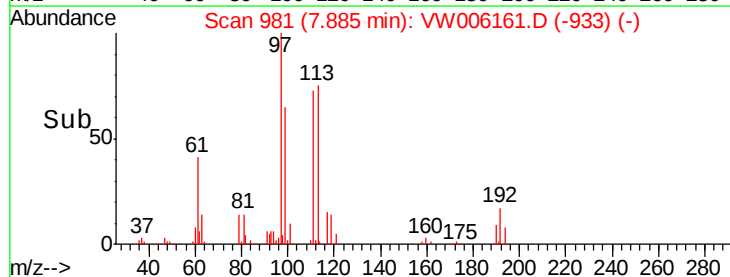
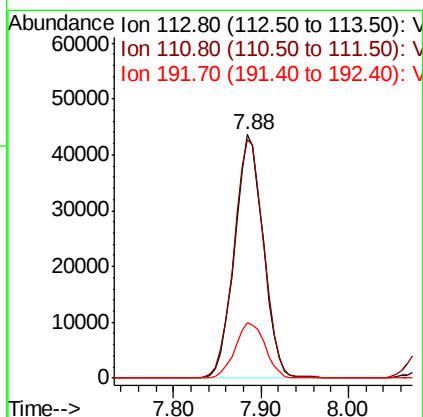
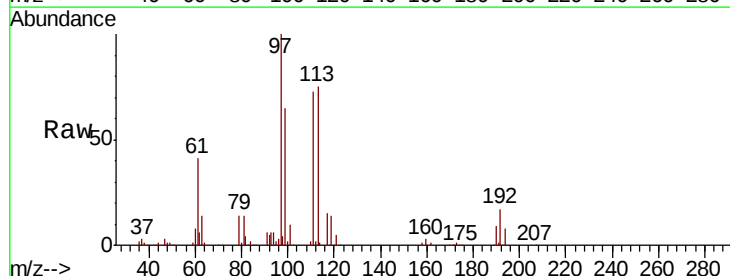
Manual Integrations
 APPROVED

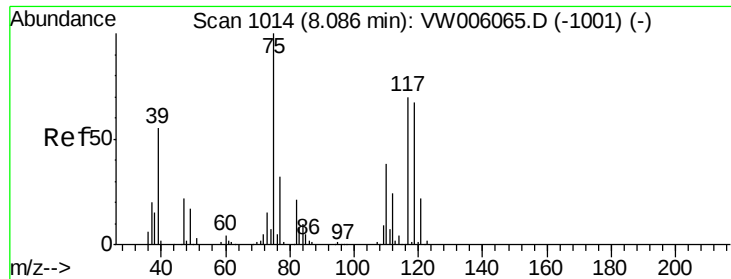
apatel
 10/18/2018 4:40:24 PM



#35
 Dibromofluoromethane
 Concen: 52.723 ug/l
 RT: 7.88 min Scan# 981
 Delta R.T. -0.01 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Resp	Lower	Upper
113	100	99485		
111	101.6		81.4	122.0
192	23.6		18.7	28.1





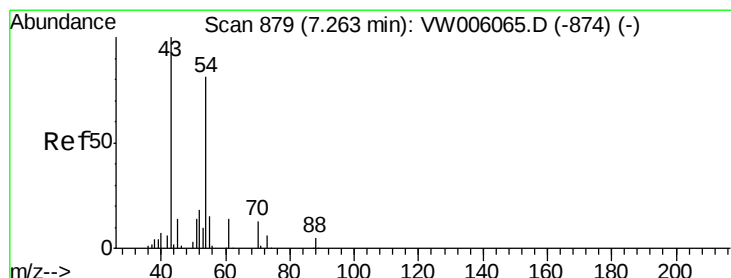
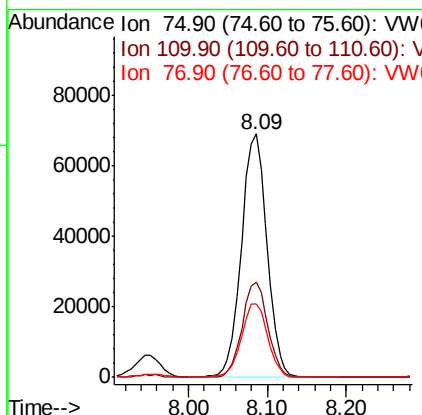
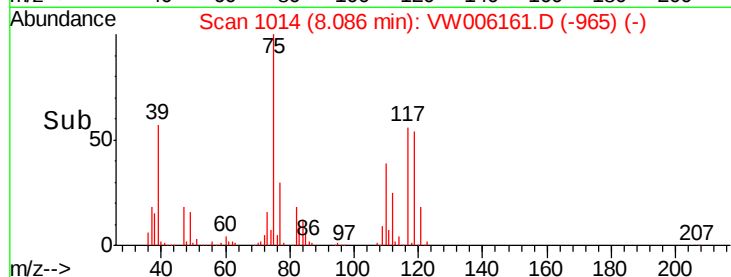
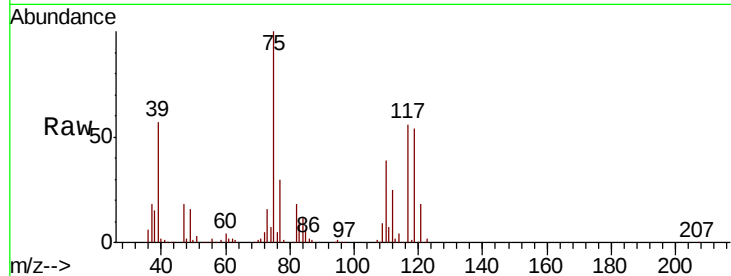
#36
 1,1-Dichloropropene
 Concen: 53.129 ug/l
 RT: 8.09 min Scan# 1014
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Instrument :
 MSVOA_W
 ClientSampleId :
 RLF-SD-5MS

Tot Ion	Ratio	Lower	Upper
75	100		
110	38.9	19.1	57.1
77	31.1	25.0	37.4

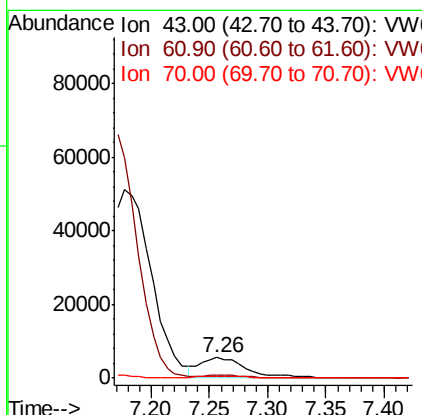
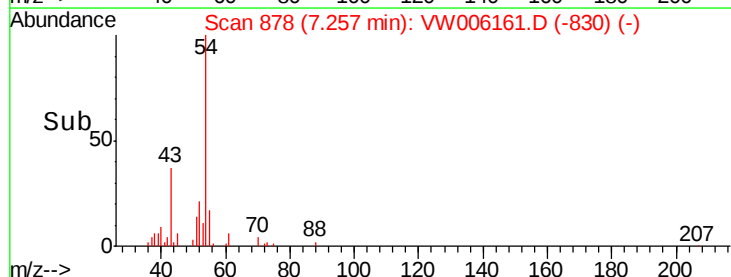
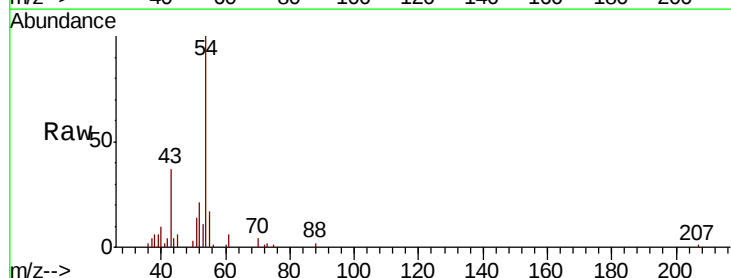
Manual Integrations
 APPROVED

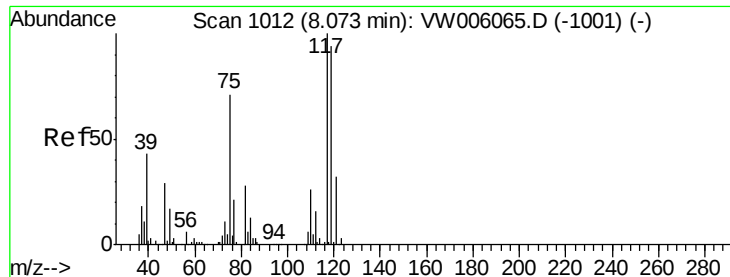
apatel
 10/18/2018 4:40:24 PM



#37
 Ethyl Acetate
 Concen: 13.566 ug/l
 RT: 7.26 min Scan# 878
 Delta R.T. -0.01 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Lower	Upper
43	100		
61	0.0	11.5	17.3#
70	10.8	9.2	13.8





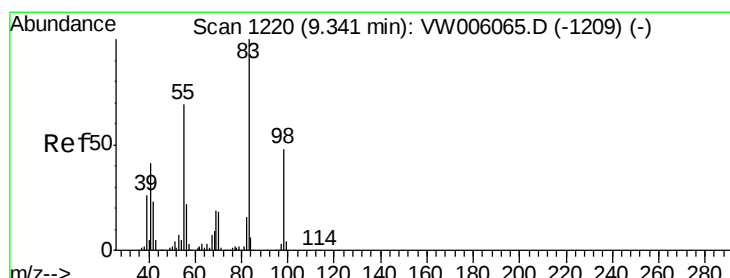
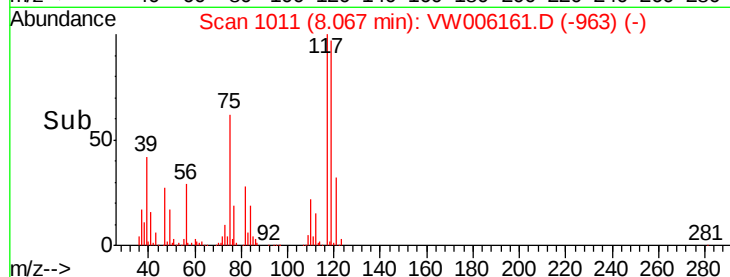
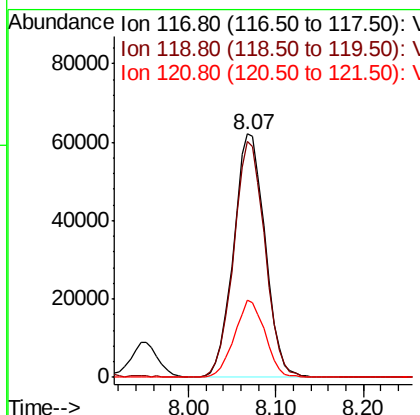
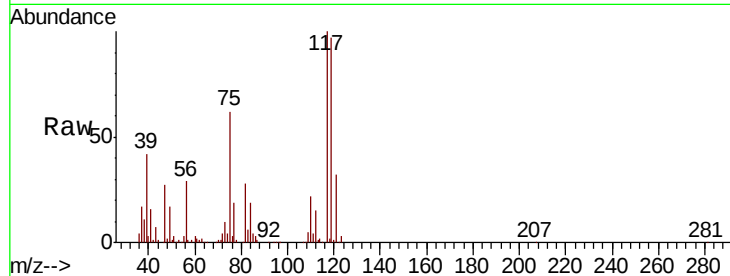
#38
Carbon Tetrachloride
Concen: 48.222 ug/l
RT: 8.07 min Scan# 1011
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion	Ratio	Lower	Upper
117	100		
119	97.2	75.2	112.8
121	31.9	25.3	37.9

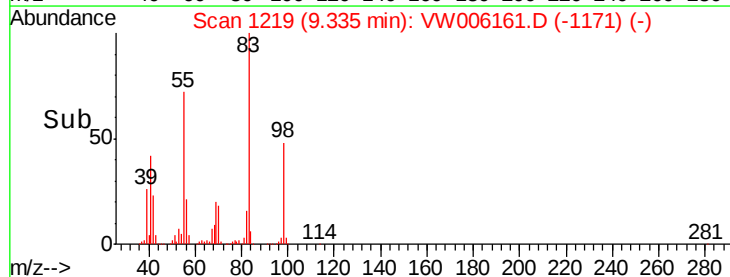
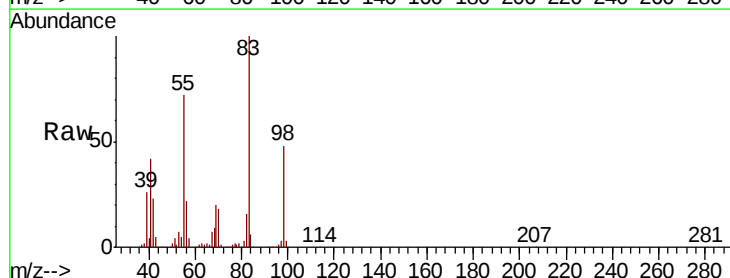
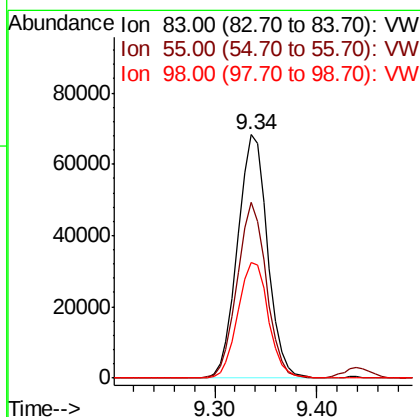
Manual Integrations
APPROVED

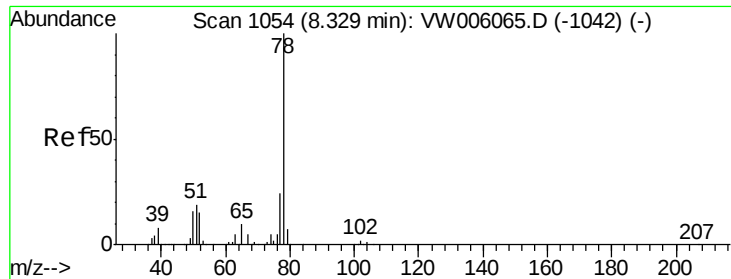
apatel
10/18/2018 4:40:24 PM



#39
Methylcyclohexane
Concen: 35.530 ug/l
RT: 9.34 min Scan# 1219
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Lower	Upper
83	100		
55	72.2	55.0	82.6
98	47.5	38.6	57.8





#40

Benzene

Concen: 57.509 ug/l

RT: 8.32 min Scan# 1053

Delta R.T. -0.01 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

ClientSampleId :

RLF-SD-5MS

Tot Ion: 78 Resp: 464321

Ion Ratio Lower Upper

78 100

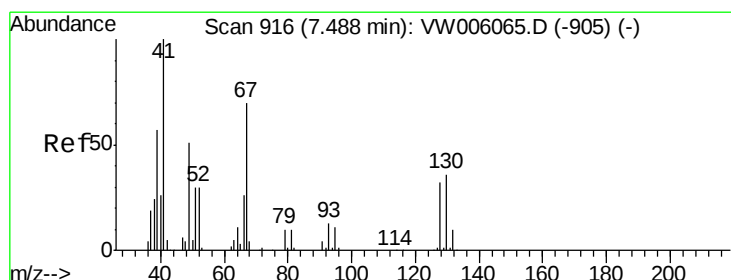
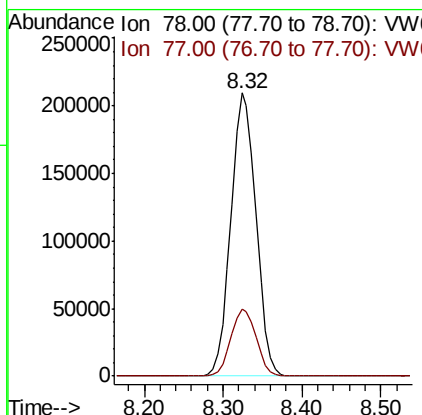
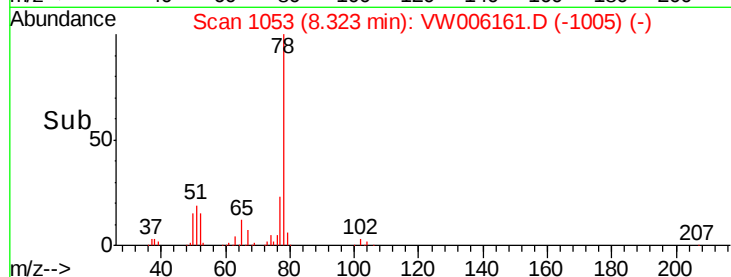
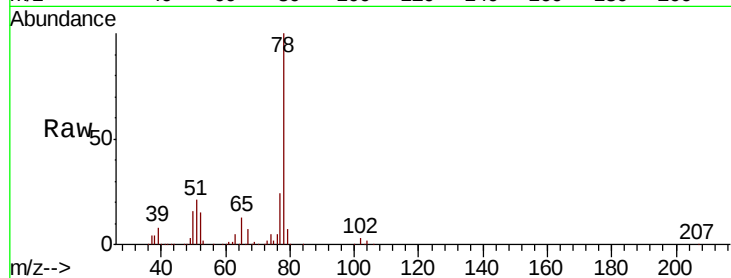
77 23.5 19.4 29.0

Manual Integrations

APPROVED

apatel

10/18/2018 4:40:24 PM



#41

Methacrylonitrile

Concen: 51.284 ug/l

RT: 7.49 min Scan# 916

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Tgt Ion: 41 Resp: 33809

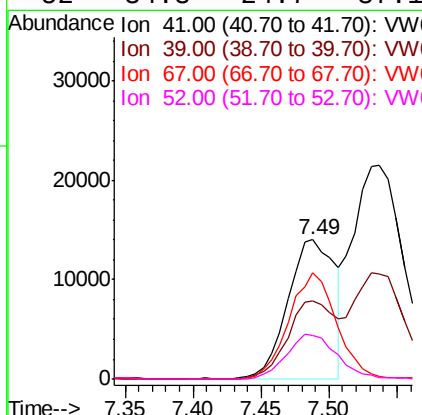
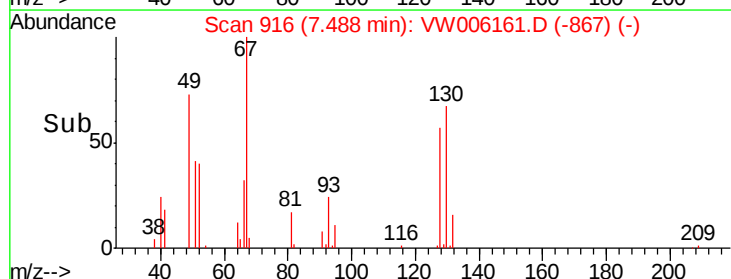
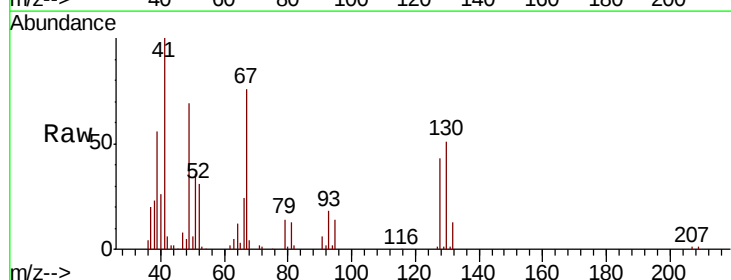
Ion Ratio Lower Upper

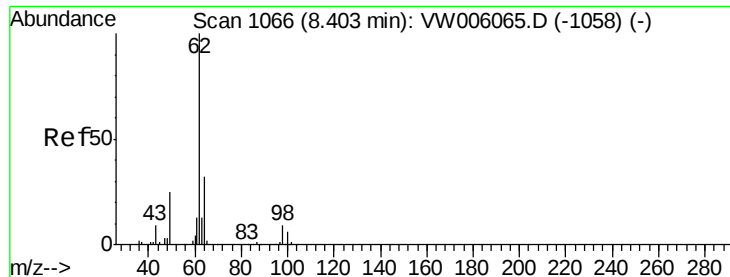
41 100

39 56.0 46.2 69.4

67 77.1 57.7 86.5

52 34.3 24.7 37.1





#42

1,2-Dichloroethane

Concen: 62.395 ug/l

RT: 8.40 min Scan# 1066

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

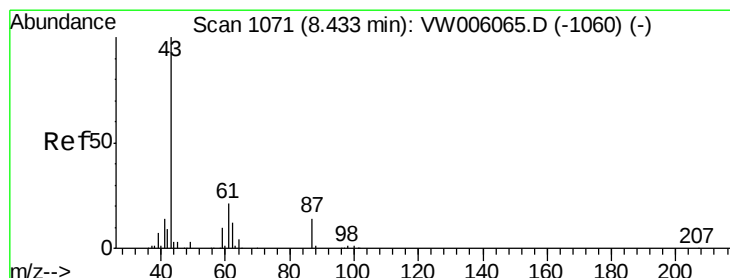
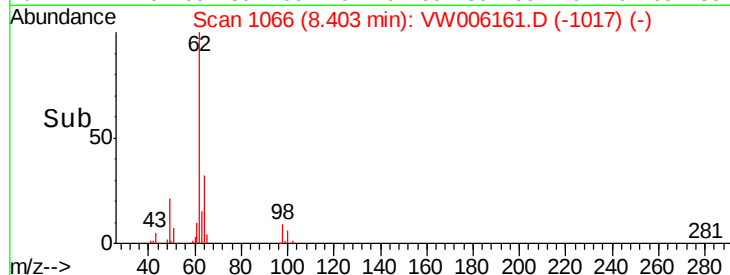
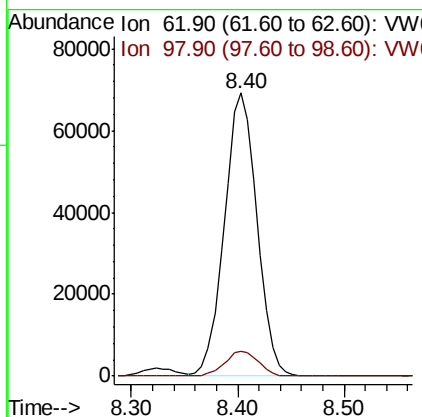
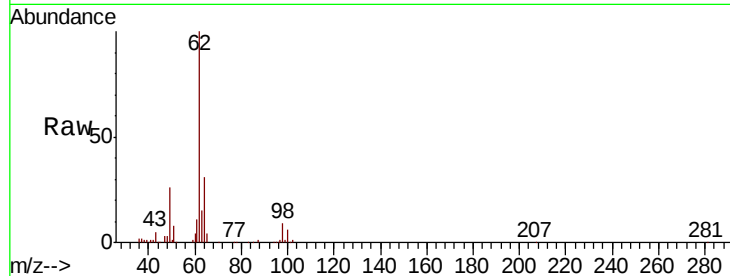
ClientSampleId :

RLF-SD-5MS

Tot Ion	Ratio	Resp	Lower	Upper
62	100	148006		
98	9.1	0.0	18.4	

Manual Integrations
APPROVED

apatel
10/18/2018 4:40:24 PM



#43

Isopropyl Acetate

Concen: 21.487 ug/l

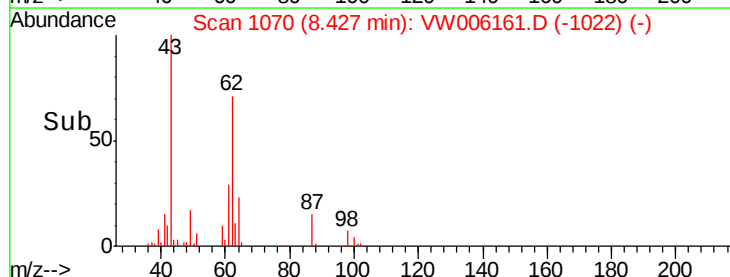
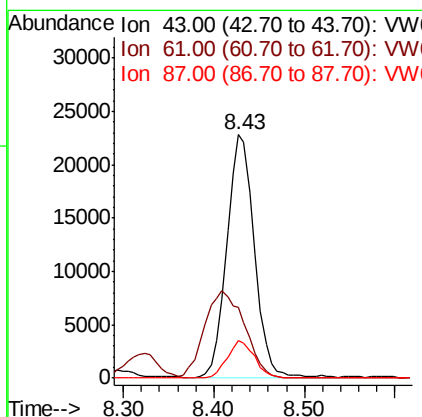
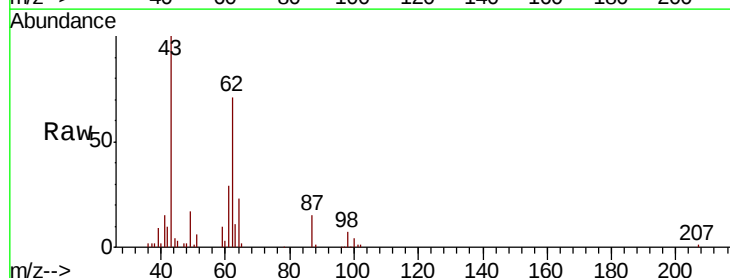
RT: 8.43 min Scan# 1070

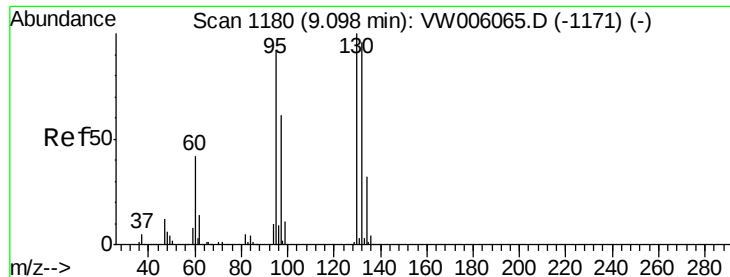
Delta R.T. -0.01 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	48045		
61	52.5	25.5	38.3#	
87	15.3	11.7	17.5	





#44

Trichloroethene

Concen: 55.191 ug/l

RT: 9.09 min Scan# 1179

Delta R.T. -0.01 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

ClientSampleId :

RLF-SD-5MS

Tot Ion:130 Resp: 136710

Ion Ratio Lower Upper

130 100

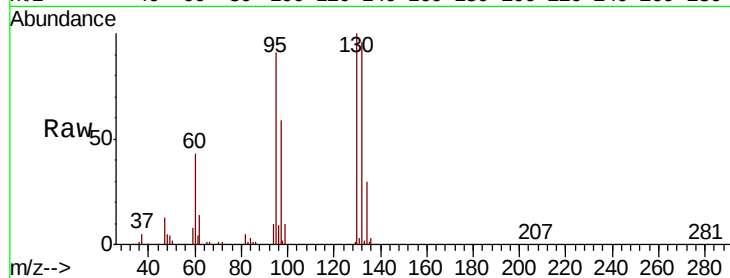
95 90.7 0.0 183.2

Manual Integrations

APPROVED

apatel

10/18/2018 4:40:24 PM



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VW

9.09

80000

60000

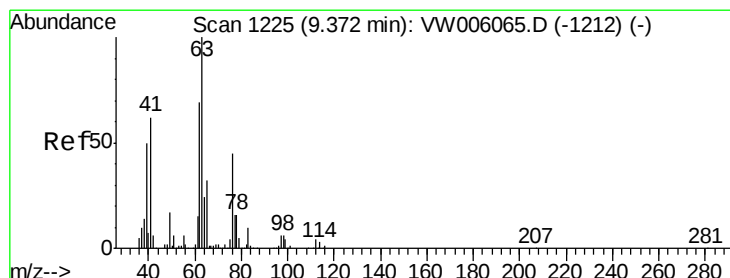
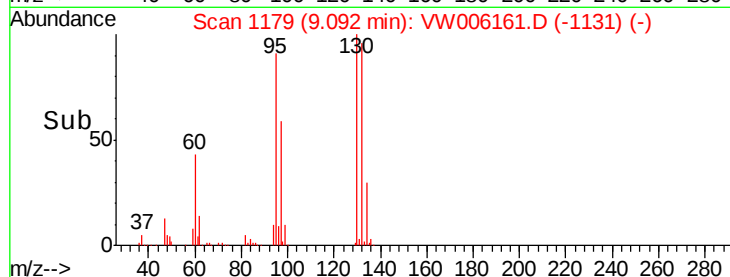
40000

20000

0

Time-->

9.00 9.05 9.10 9.15 9.20



#45

1,2-Dichloropropane

Concen: 57.987 ug/l

RT: 9.37 min Scan# 1225

Delta R.T. 0.00 min

Lab File: VW006161.D

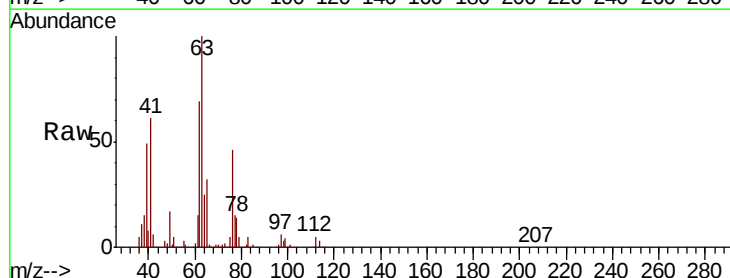
Acq: 18 Oct 2018 08:23

Tgt Ion: 63 Resp: 112033

Ion Ratio Lower Upper

63 100

65 31.8 25.4 38.0



Abundance Ion 62.90 (62.60 to 63.60): VW

Ion 64.90 (64.60 to 65.60): VW

9.37

60000

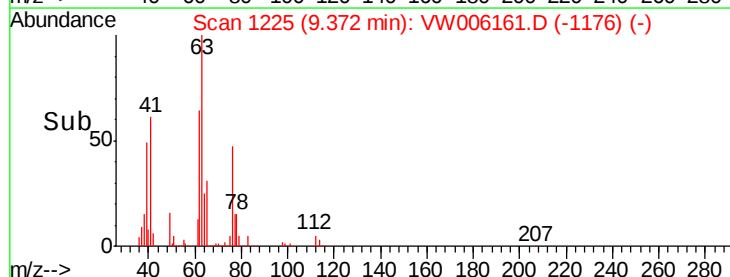
40000

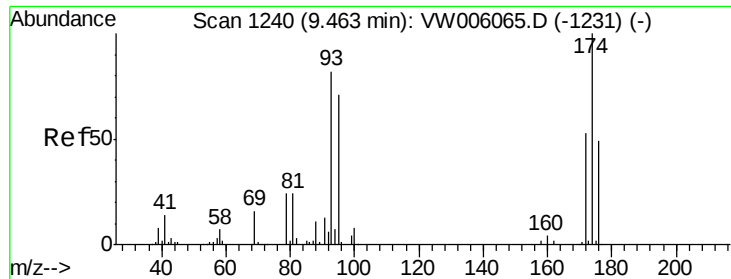
20000

0

Time-->

9.30 9.40





#46

Dibromomethane

Concen: 63.135 ug/l

RT: 9.46 min Scan# 1240

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

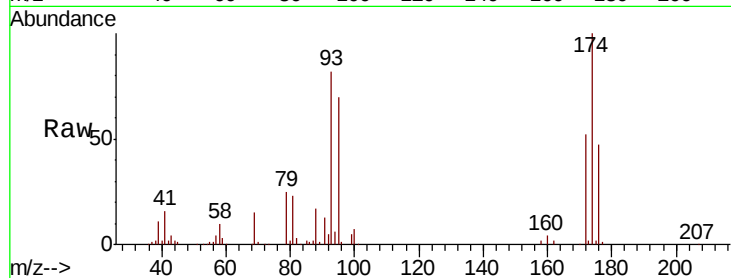
ClientSampleId :

RLF-SD-5MS

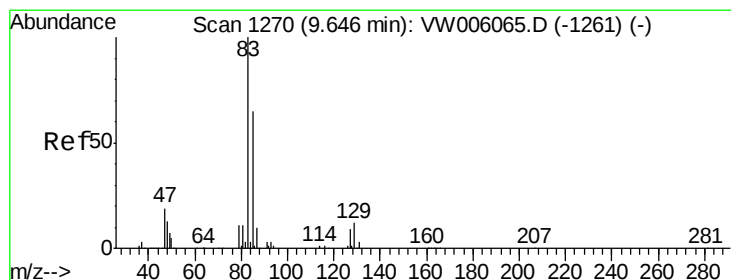
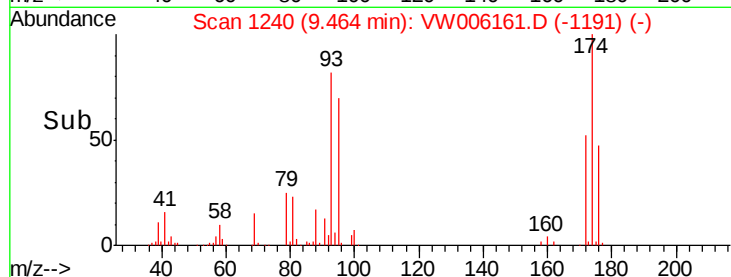
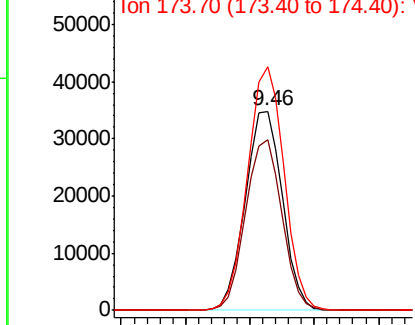
Tot Ion:	93	Resp:	69522
Ion	Ratio	Lower	Upper
93	100		
95	83.9	67.7	101.5
174	120.4	93.7	140.5

Manual Integrations
APPROVED

apatel
10/18/2018 4:40:24 PM



Abundance Ion 92.80 (92.50 to 93.50): VW
Ion 94.80 (94.50 to 95.50): VW
Ion 173.70 (173.40 to 174.40): V



#47

Bromodichloromethane

Concen: 52.467 ug/l

RT: 9.65 min Scan# 1270

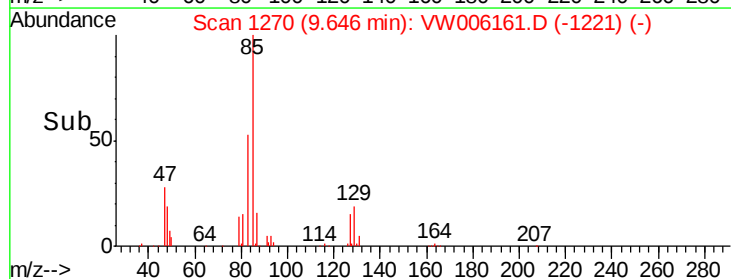
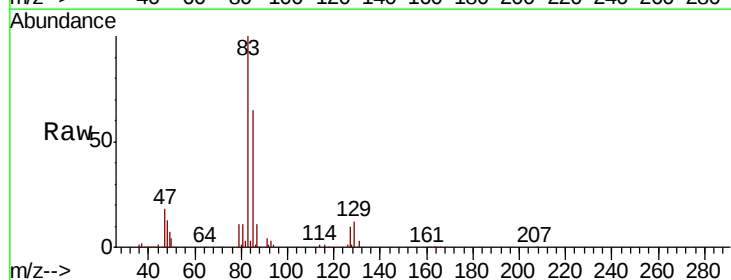
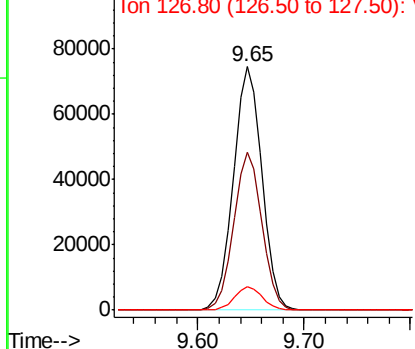
Delta R.T. 0.00 min

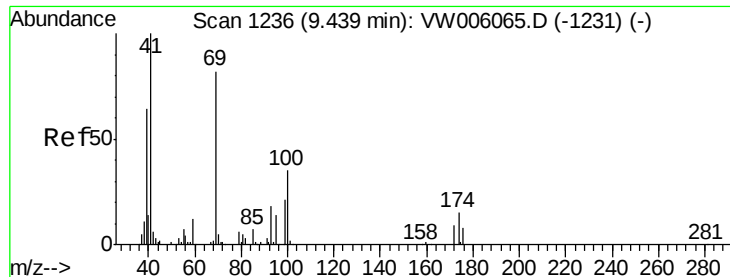
Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Tgt Ion:	83	Resp:	140071
Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.8	77.8
127	9.7	6.9	10.3

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





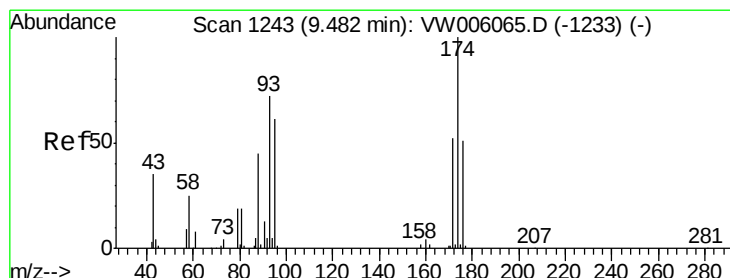
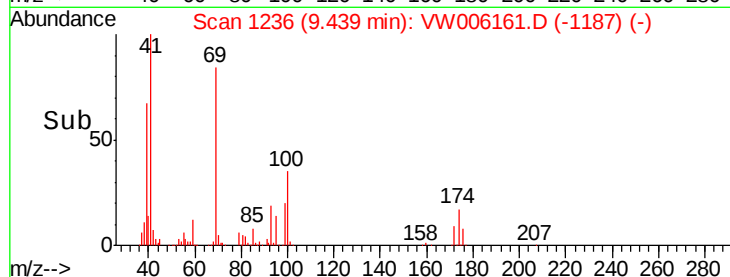
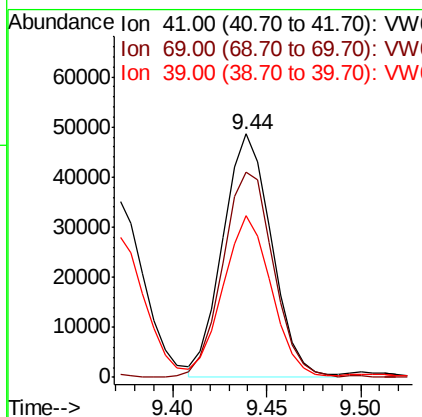
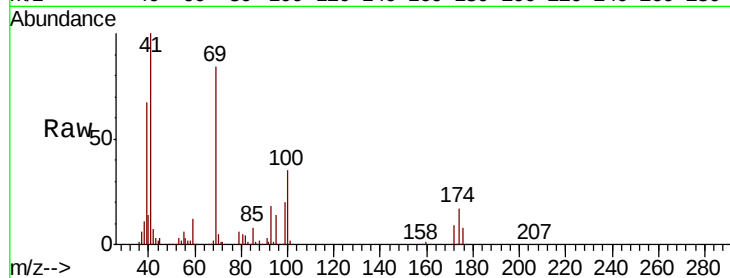
#48
Methvl methacrylate
Concen: 82.271 ug/l
RT: 9.44 min Scan# 1236
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion	Ratio	Lower	Upper
41	100		
69	87.5	71.8	107.8
39	65.4	52.5	78.7

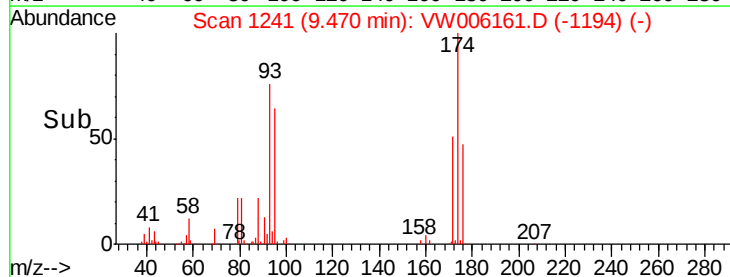
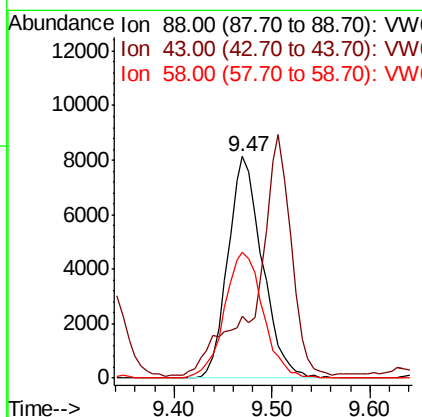
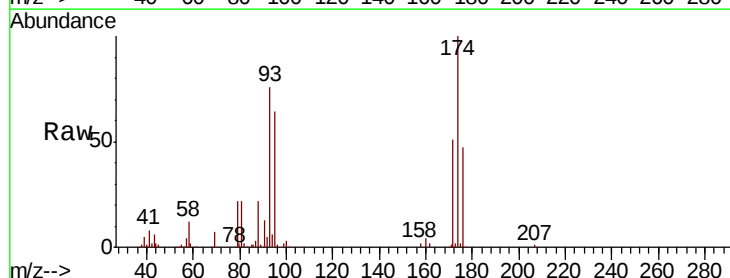
Manual Integrations
APPROVED

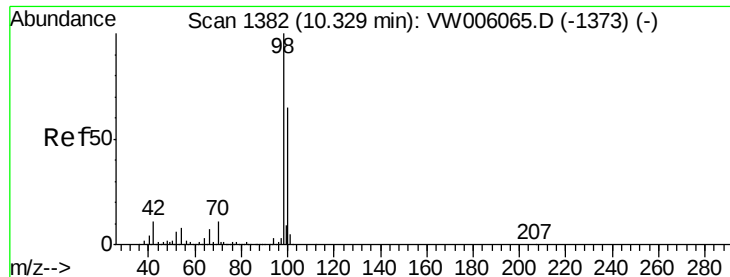
apatel
10/18/2018 4:40:24 PM



#49
1,4-Dioxane
Concen: 1164.996 ug/l
RT: 9.47 min Scan# 1241
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Lower	Upper
88	100		
43	0.0	0.0	0.0
58	63.9	51.2	76.8





#50

Toluene-d8

Concen: 48.758 ug/l

RT: 10.33 min Scan# 1382

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

ClientSampleId :

RLF-SD-5MS

Tot Ion: 98 Resp: 350025

Ion Ratio Lower Upper

98 100

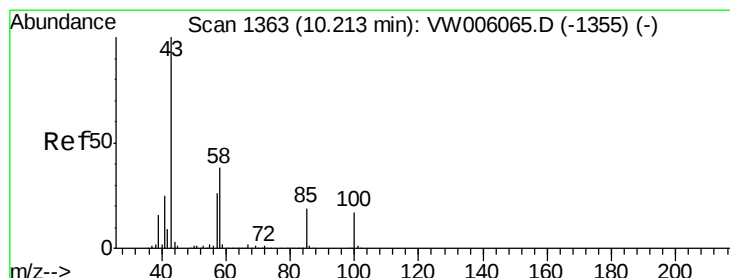
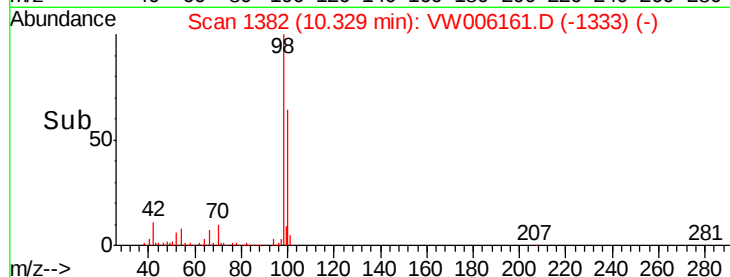
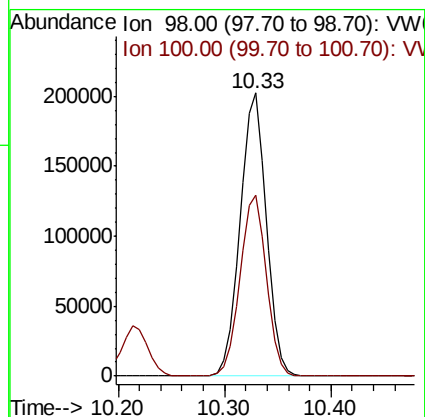
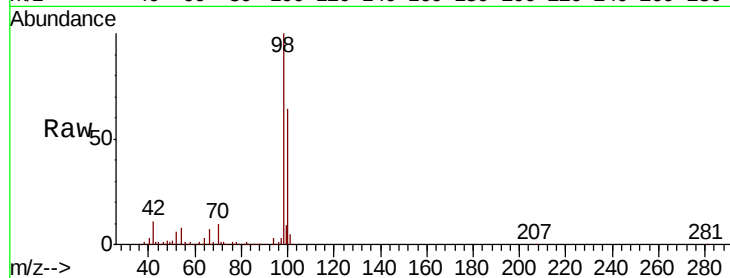
100 64.4 51.6 77.4

Manual Integrations

APPROVED

apatel

10/18/2018 4:40:24 PM



#51

4-Methyl-2-Pentanone

Concen: 310.521 ug/l

RT: 10.21 min Scan# 1363

Delta R.T. 0.00 min

Lab File: VW006161.D

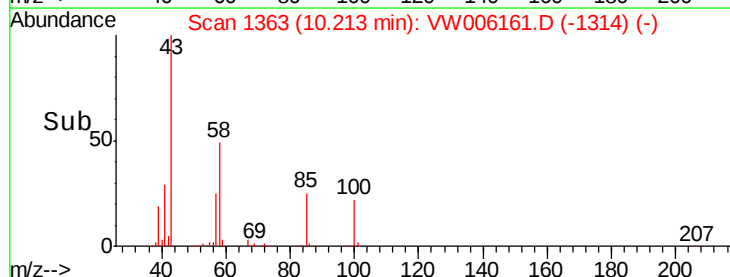
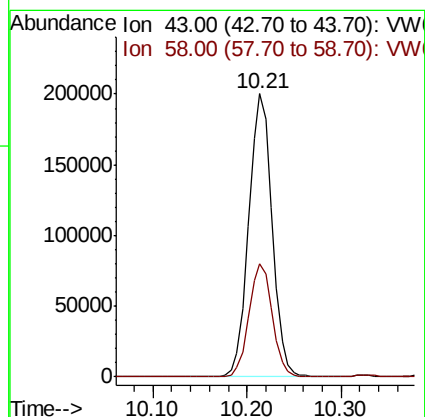
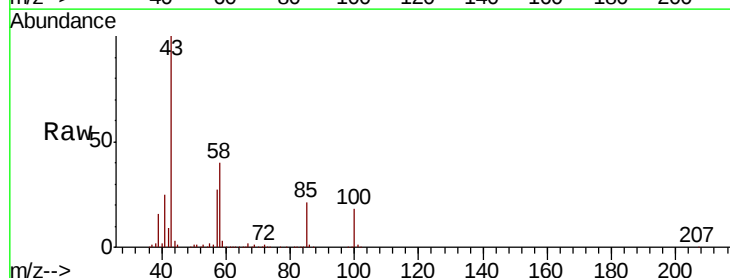
Acq: 18 Oct 2018 08:23

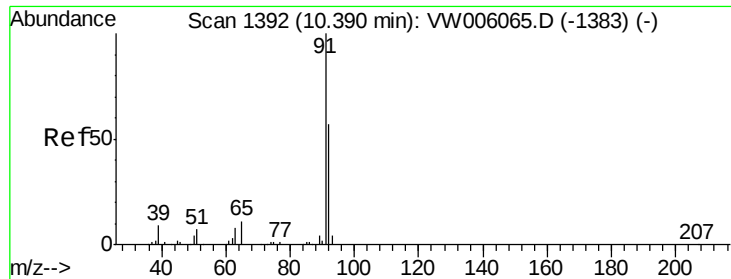
Tgt Ion: 43 Resp: 347878

Ion Ratio Lower Upper

43 100

58 39.9 31.5 47.3





#52

Toluene

Concen: 54.079 ug/l

RT: 10.39 min Scan# 1392

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

ClientSampleId :

RLF-SD-5MS

Tot Ion: 92 Resp: 292726

Ion Ratio Lower Upper

92 100

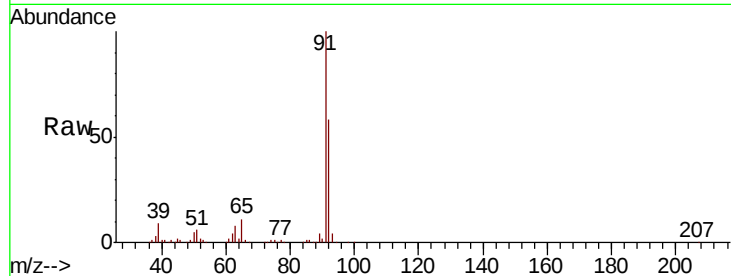
91 174.0 140.0 210.0

Manual Integrations

APPROVED

apatel

10/18/2018 4:40:24 PM



Abundance Ion 92.00 (91.70 to 92.70): VW

Ion 91.00 (90.70 to 91.70): VW

300000

200000

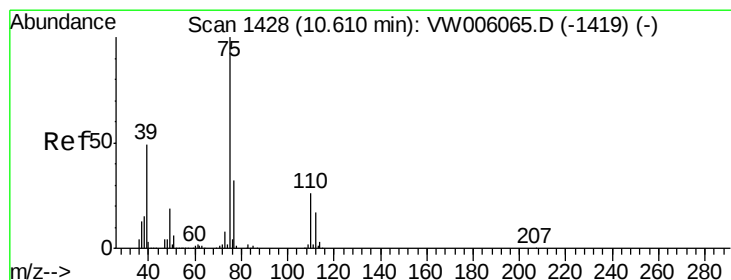
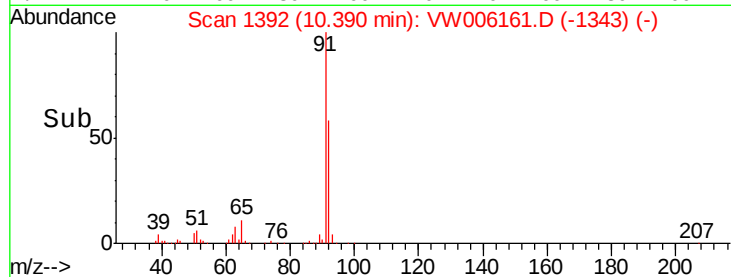
100000

0

10.39

10.30 10.40 10.50

Time-->



#53

t-1,3-Dichloropropene

Concen: 49.003 ug/l

RT: 10.61 min Scan# 1428

Delta R.T. 0.00 min

Lab File: VW006161.D

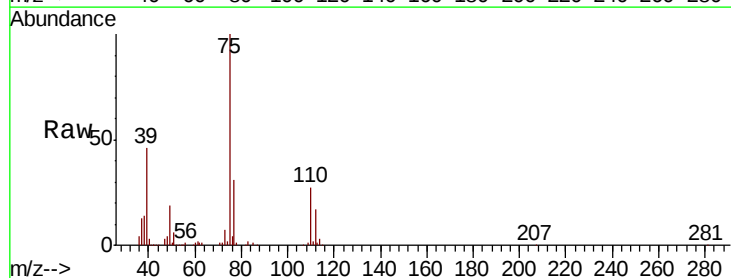
Acq: 18 Oct 2018 08:23

Tgt Ion: 75 Resp: 130342

Ion Ratio Lower Upper

75 100

77 31.1 25.4 38.2



Abundance Ion 74.90 (74.60 to 75.60): VW

Ion 76.90 (76.60 to 77.60): VW

80000

60000

40000

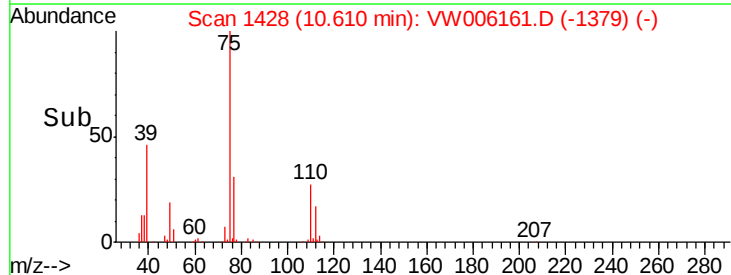
20000

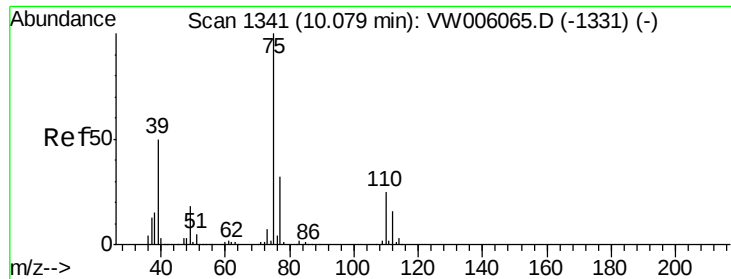
0

10.61

10.50 10.60 10.70

Time-->





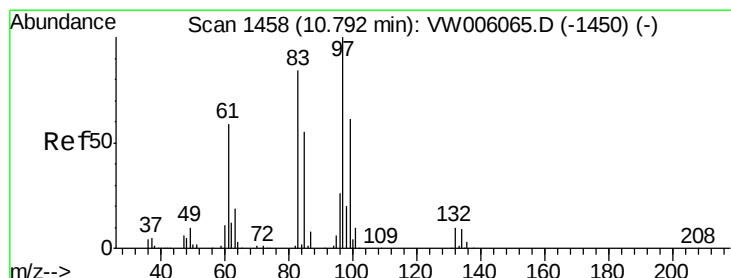
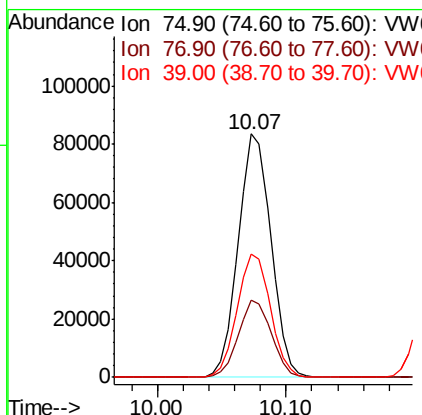
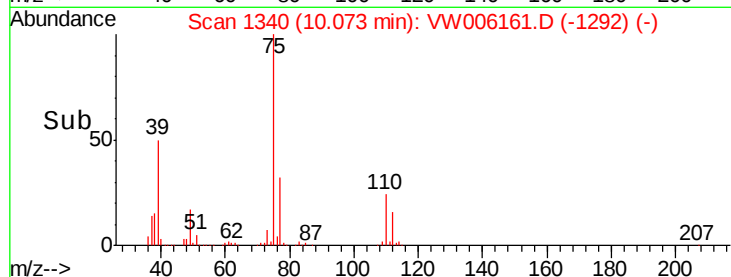
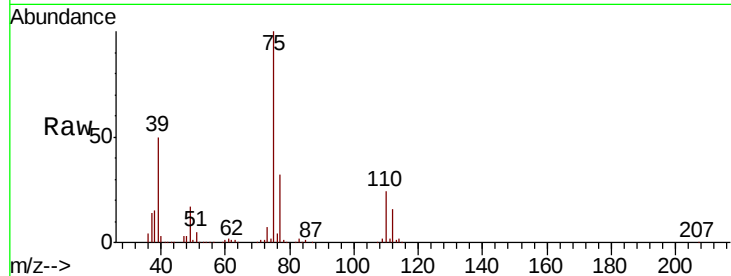
#54
 cis-1,3-Dichloropropene
 Concen: 48.258 ug/l
 RT: 10.07 min Scan# 1340
 Delta R.T. -0.01 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Instrument :
 MSVOA_W
 ClientSampled :
 RLF-SD-5MS

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.2	37.8
39	50.4	39.9	59.9

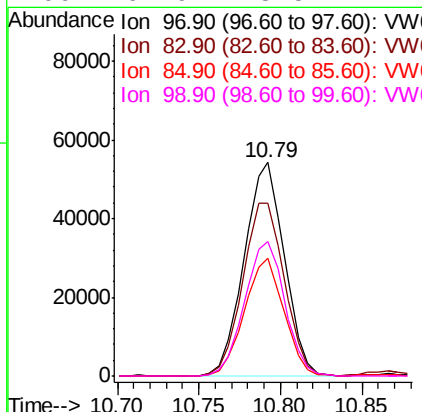
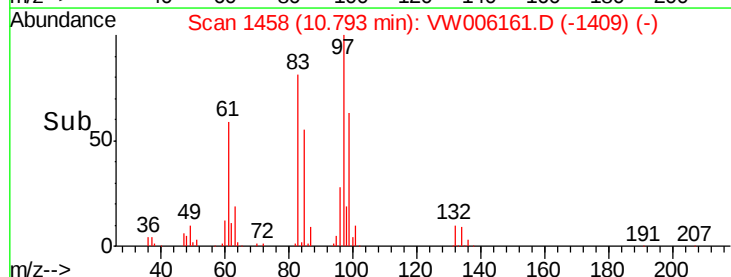
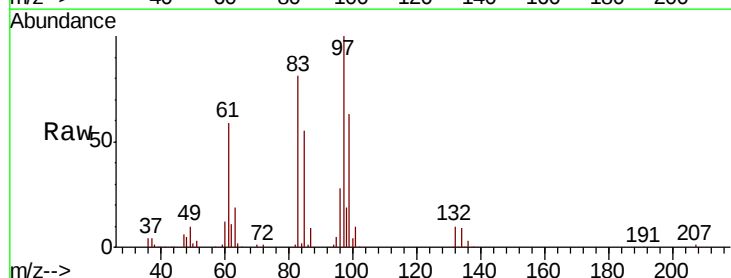
Manual Integrations
 APPROVED

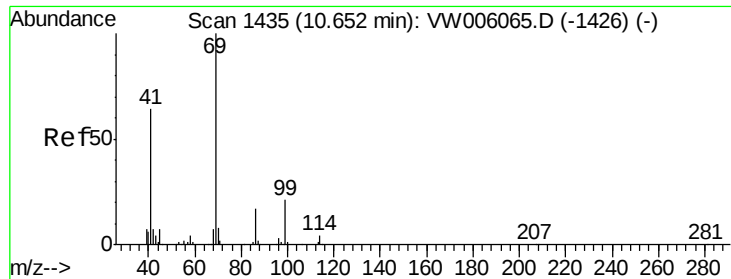
apatel
 10/18/2018 4:40:24 PM



#55
 1,1,2-Trichloroethane
 Concen: 60.394 ug/l
 RT: 10.79 min Scan# 1458
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Lower	Upper
97	100		
83	80.7	67.2	100.8
85	54.9	43.7	65.5
99	62.9	48.5	72.7





#56

Ethyl methacrylate

Concen: 10.995 ug/l

RT: 10.65 min Scan# 1435

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

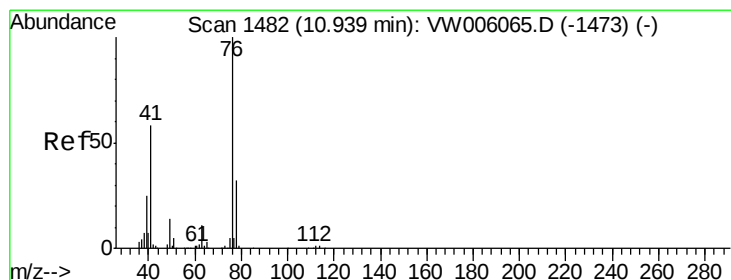
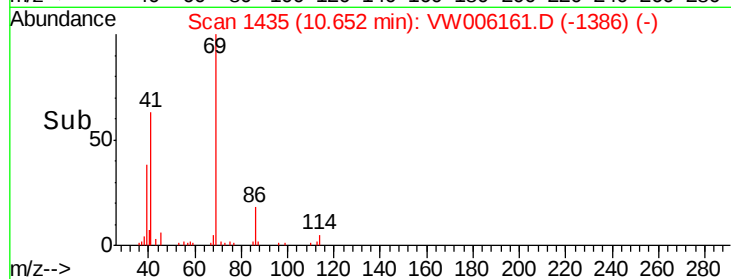
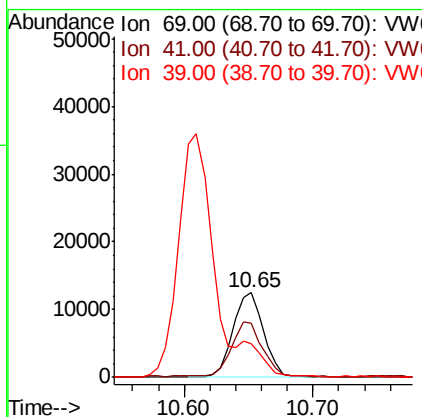
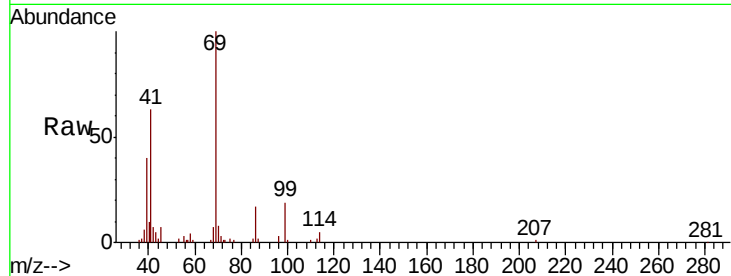
ClientSampleId :

RLF-SD-5MS

Tot Ion:	69	Resp:	20770
Ion	Ratio	Lower	Upper
69	100		
41	70.6	52.8	79.2
39	0.0	30.6	45.8#

Manual Integrations
APPROVED

apatel
10/18/2018 4:40:24 PM



#57

1,3-Dichloropropane

Concen: 59.739 ug/l

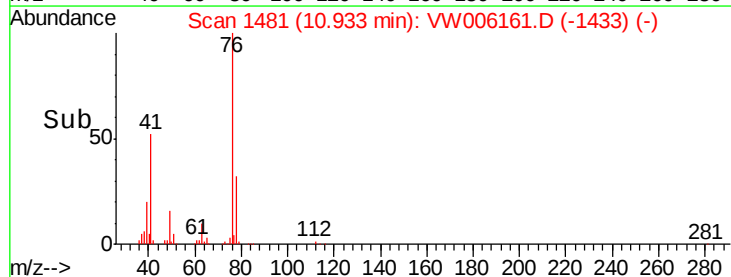
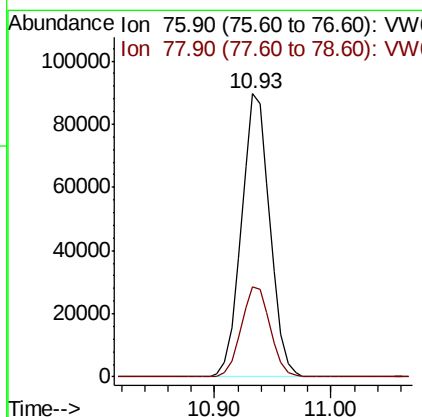
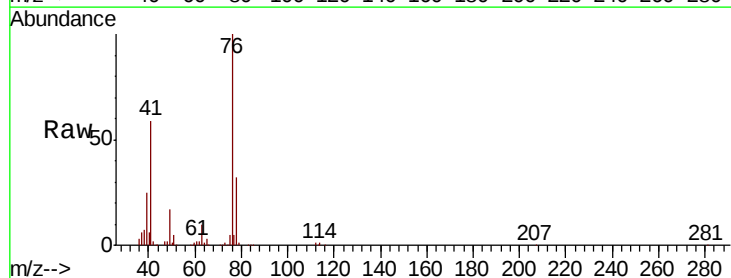
RT: 10.93 min Scan# 1481

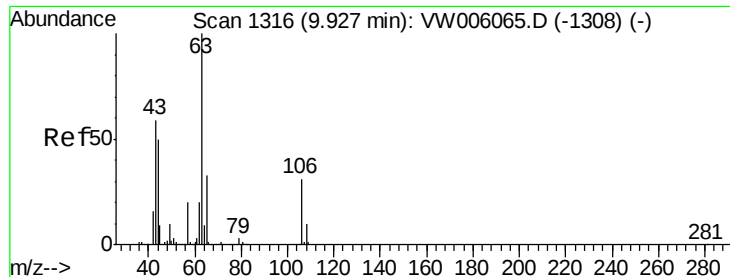
Delta R.T. -0.01 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Tgt Ion:	76	Resp:	152388
Ion	Ratio	Lower	Upper
76	100		
78	32.5	25.9	38.9





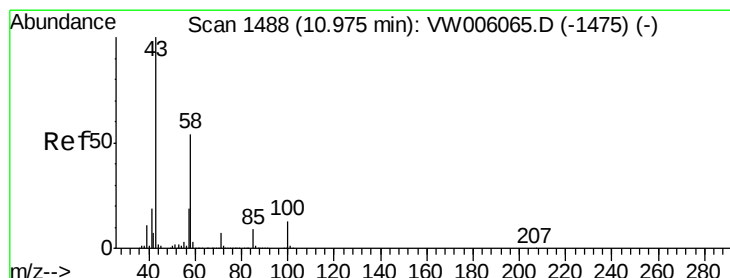
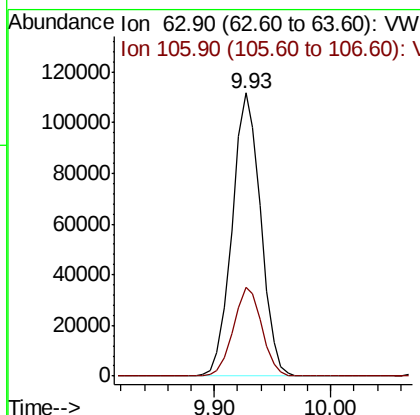
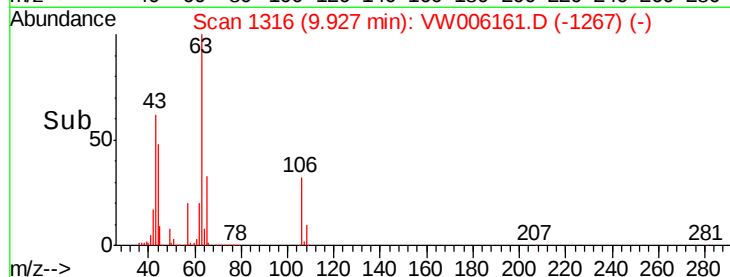
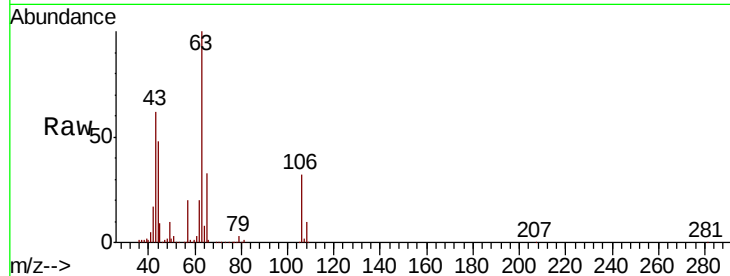
#58
2-Chloroethyl Vinyl ether
Concen: 264.085 ug/l
RT: 9.93 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion	Ratio	Lower	Upper
63	100		
106	31.2	24.5	36.7

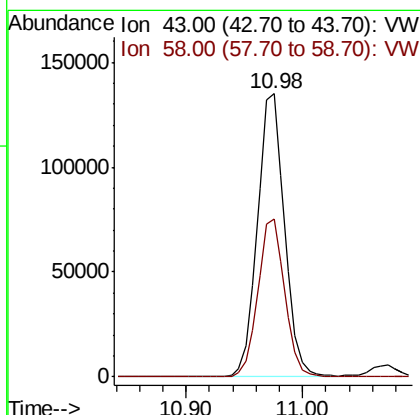
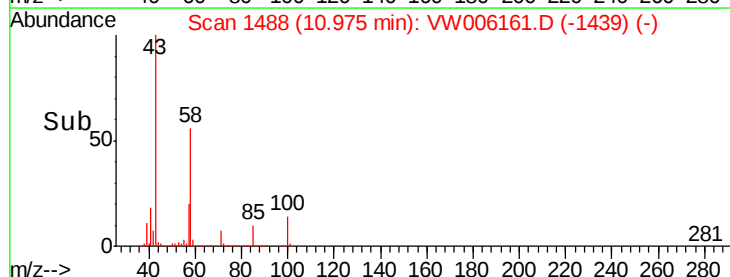
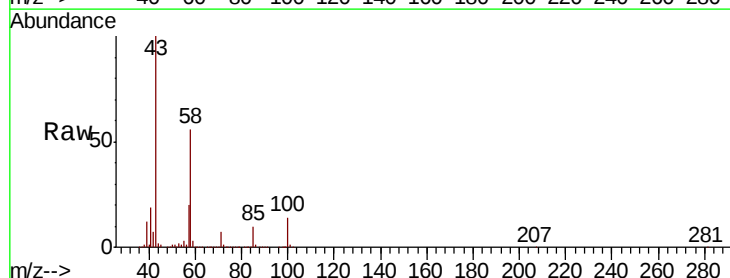
Manual Integrations
APPROVED

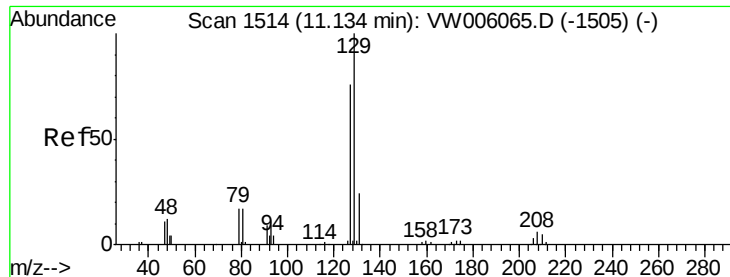
apatel
10/18/2018 4:40:24 PM



#59
2-Hexanone
Concen: 274.278 ug/l
RT: 10.98 min Scan# 1488
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Lower	Upper
43	100		
58	55.3	26.9	80.6





#60

Dibromochloromethane

Concen: 50.787 ug/l

RT: 11.13 min Scan# 1514

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

ClientSampleId :

RLF-SD-5MS

Tot Ion:129 Resp: 97480

Ion Ratio Lower Upper

129 100

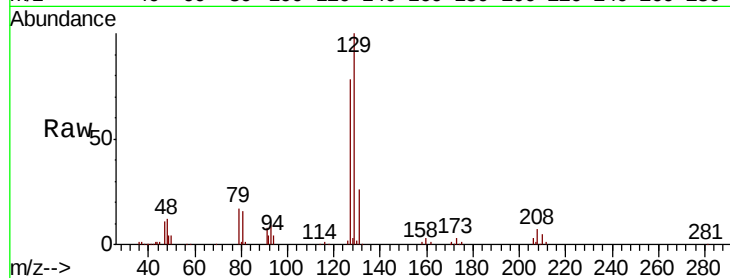
127 77.7 38.6 115.7

Manual Integrations

APPROVED

apatel

10/18/2018 4:40:24 PM



Abundance Ion 128.80 (128.50 to 129.50): V

Ion 126.80 (126.50 to 127.50): V

11.13

60000

50000

40000

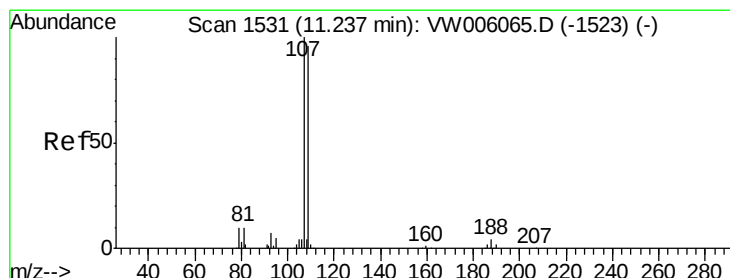
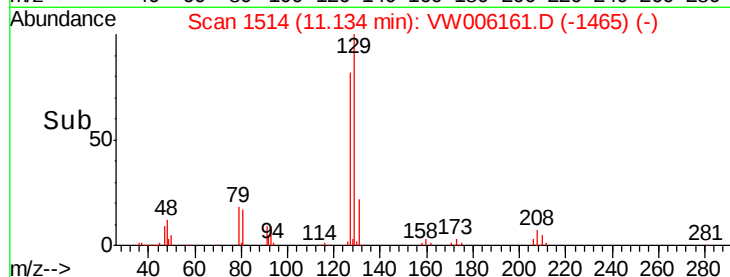
30000

20000

10000

0

Time-->



#61

1,2-Dibromoethane

Concen: 58.365 ug/l

RT: 11.24 min Scan# 1531

Delta R.T. 0.00 min

Lab File: VW006161.D

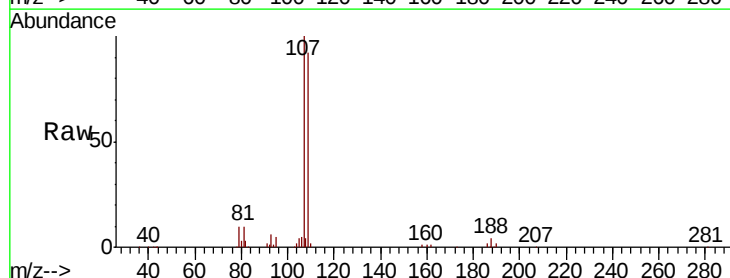
Acq: 18 Oct 2018 08:23

Tgt Ion:107 Resp: 89865

Ion Ratio Lower Upper

107 100

109 93.6 76.3 114.5



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.24

60000

50000

40000

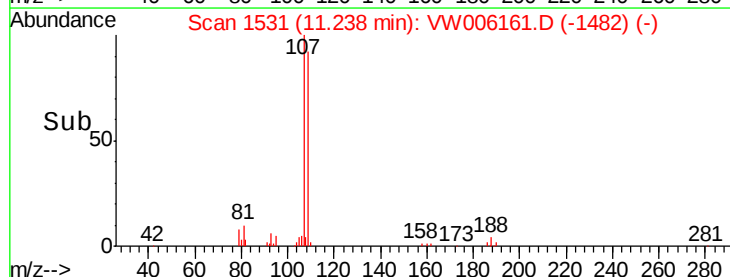
30000

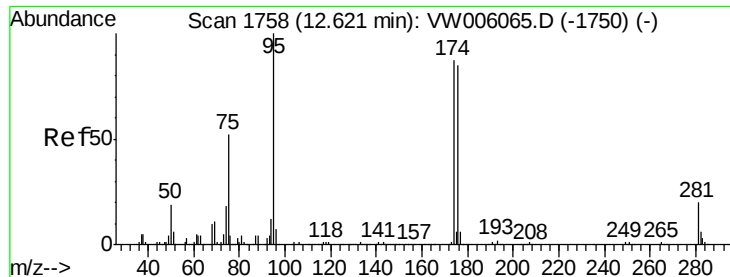
20000

10000

0

Time-->





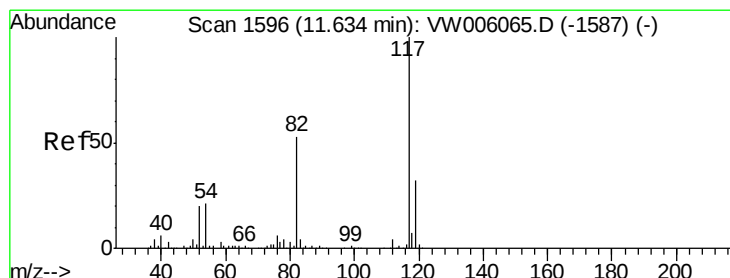
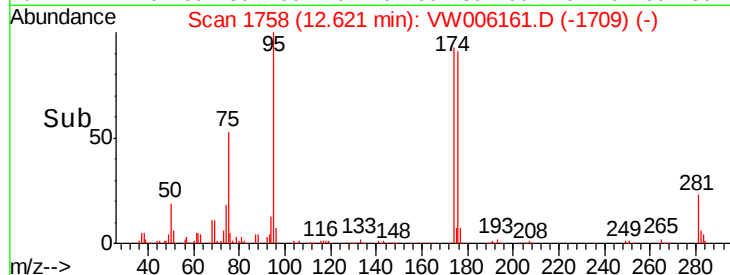
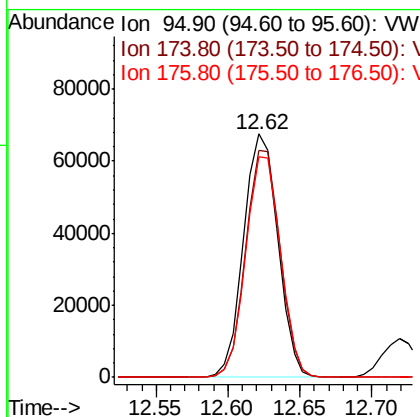
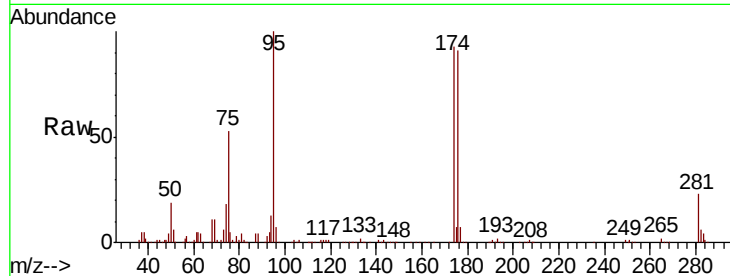
#62
4-Bromofluorobenzene
Concen: 41.171 ug/l
RT: 12.62 min Scan# 1758
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion	Ratio	Resp	Lower	Upper
95	100	111008		
174	93.5	0.0	186.0	
176	91.8	0.0	181.6	

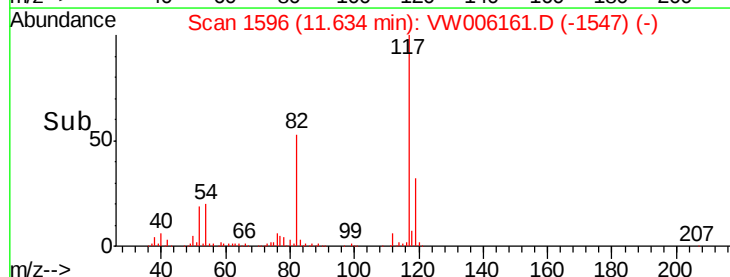
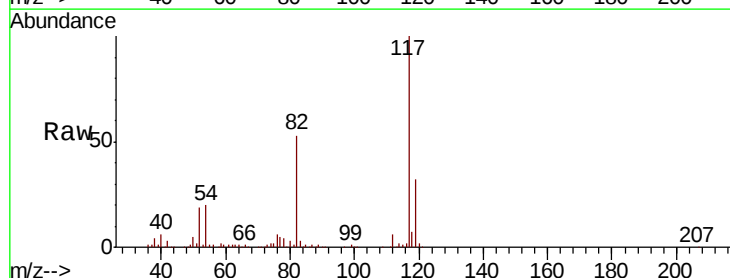
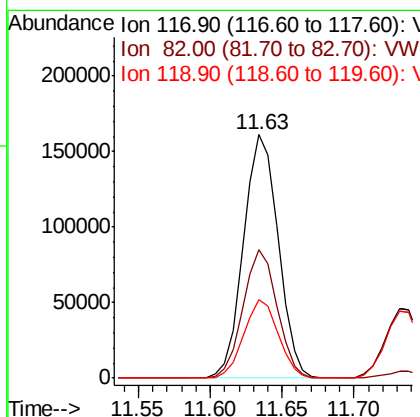
Manual Integrations
APPROVED

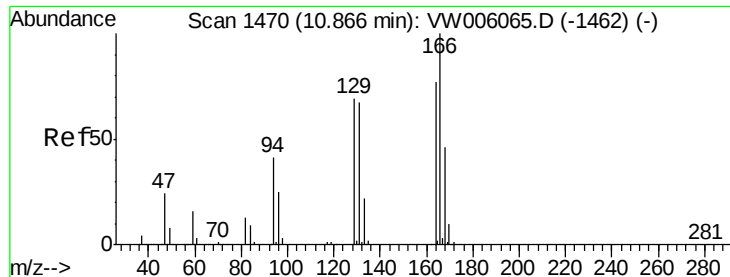
apatel
10/18/2018 4:40:24 PM



#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.63 min Scan# 1596
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	268474		
82	52.8	42.1	63.1	
119	32.2	25.8	38.6	





#64

Tetrachloroethene

Concen: 51.999 ug/l

RT: 10.87 min Scan# 1470

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

ClientSampleId :

RLF-SD-5MS

Tot Ion:164 Resp: 108376

Ion Ratio Lower Upper

164 100

166 130.2 103.4 155.0

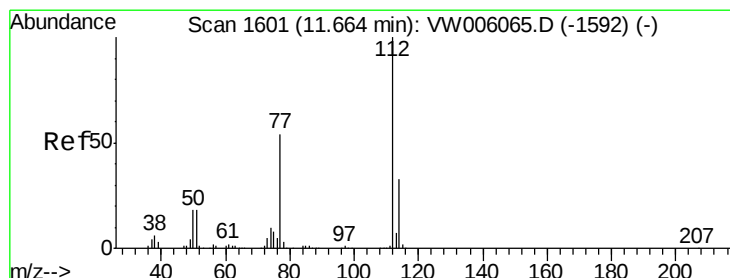
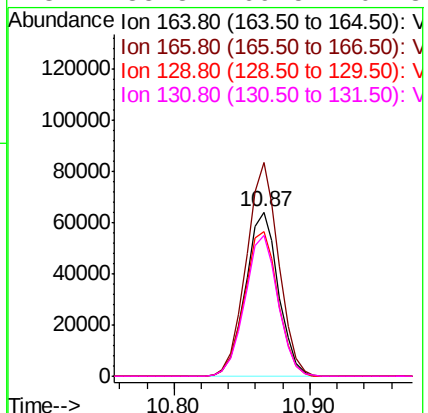
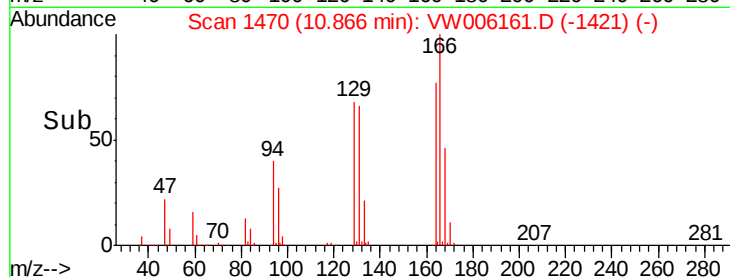
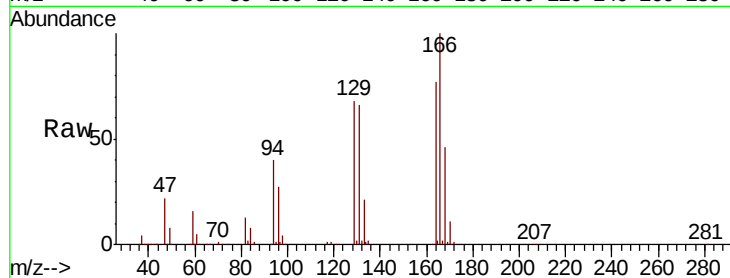
129 88.0 71.8 107.8

131 85.8 69.5 104.3

Manual Integrations
APPROVED

apatel

10/18/2018 4:40:24 PM



#65

Chlorobenzene

Concen: 54.975 ug/l

RT: 11.66 min Scan# 1600

Delta R.T. -0.01 min

Lab File: VW006161.D

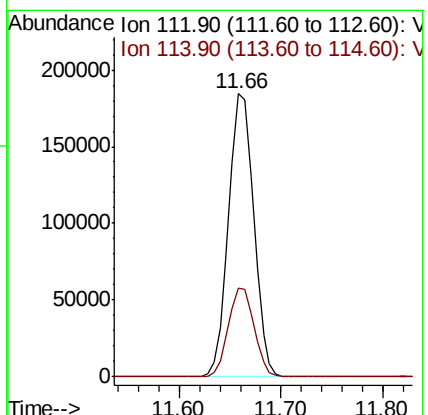
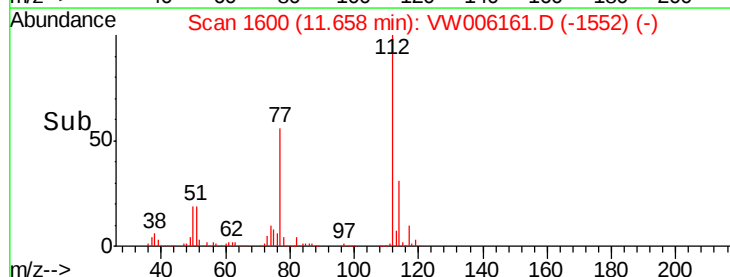
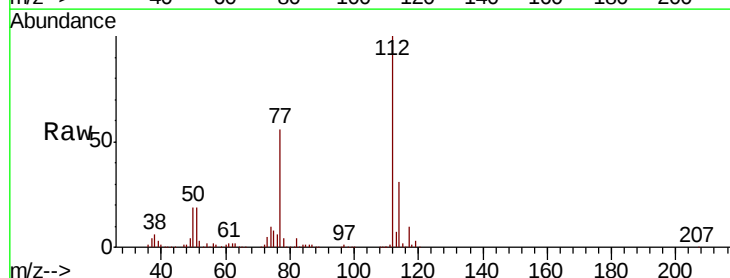
Acq: 18 Oct 2018 08:23

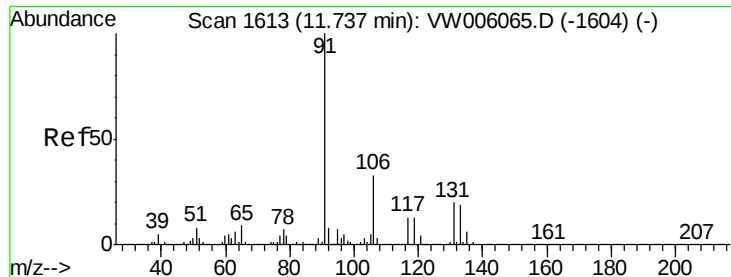
Tgt Ion:112 Resp: 315957

Ion Ratio Lower Upper

112 100

114 31.5 26.2 39.2





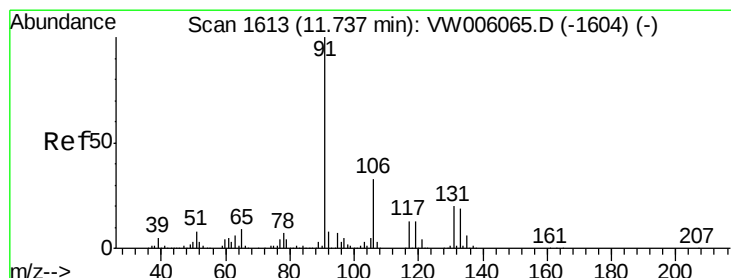
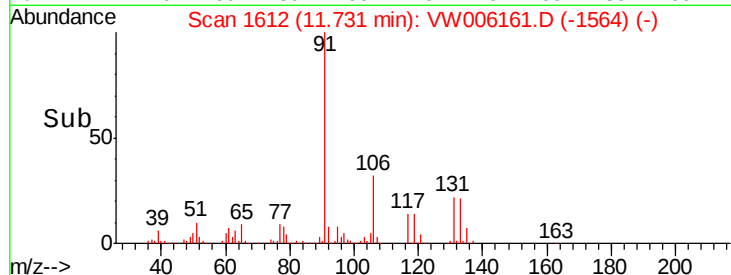
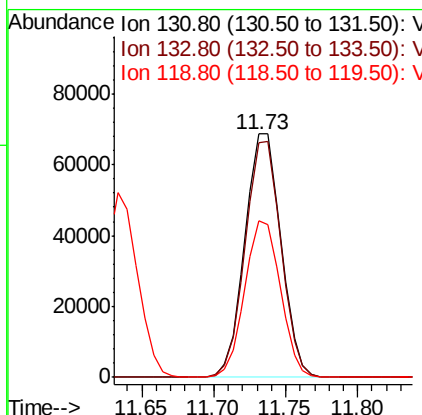
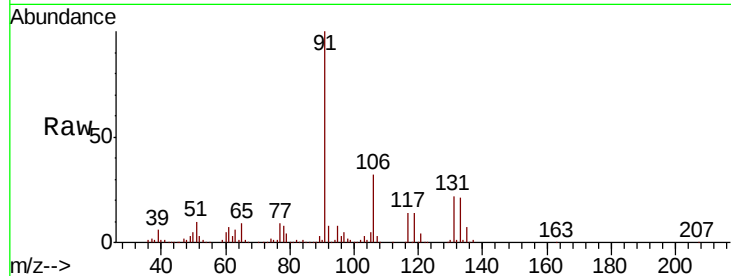
#66
 1,1,1,2-Tetrachloroethane
 Concen: 58.387 ug/l
 RT: 11.73 min Scan# 1612
 Delta R.T. -0.01 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Instrument :
 MSVOA_W
 ClientSampleId :
 RLF-SD-5MS

Tot Ion	Ratio	Resp	Lower	Upper
131	100			
133	96.4	48.1	144.3	
119	63.6	31.6	94.7	

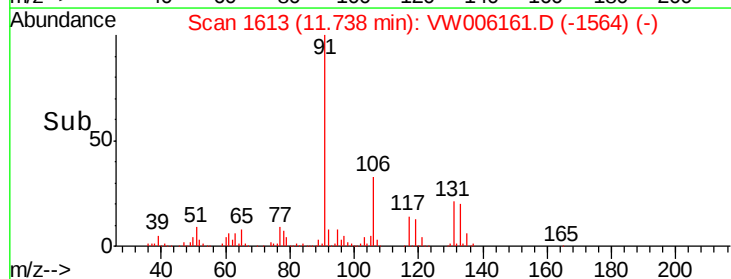
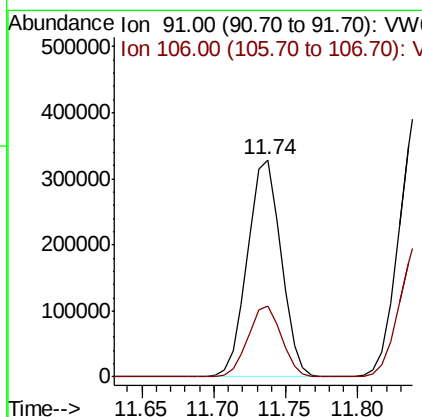
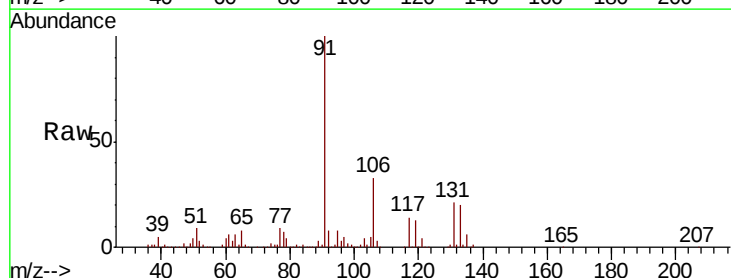
Manual Integrations
 APPROVED

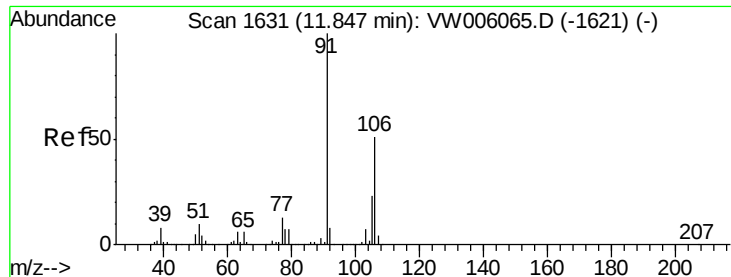
apatel
 10/18/2018 4:40:24 PM



#67
 Ethyl Benzene
 Concen: 53.295 ug/l
 RT: 11.74 min Scan# 1613
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Resp	Lower	Upper
91	100			
106	32.6	26.1	39.1	





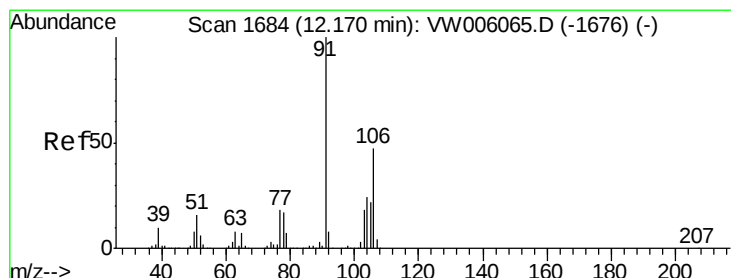
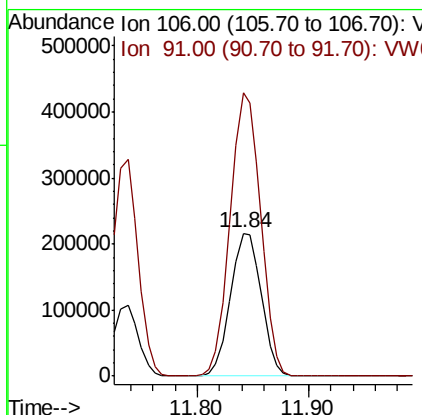
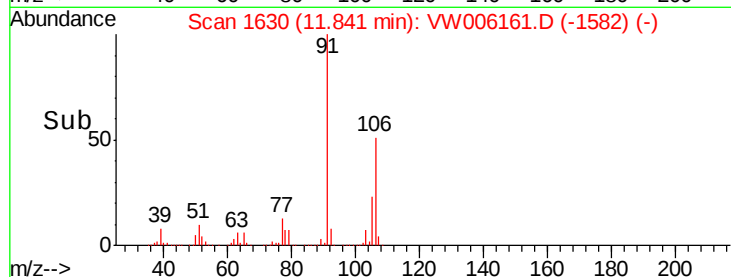
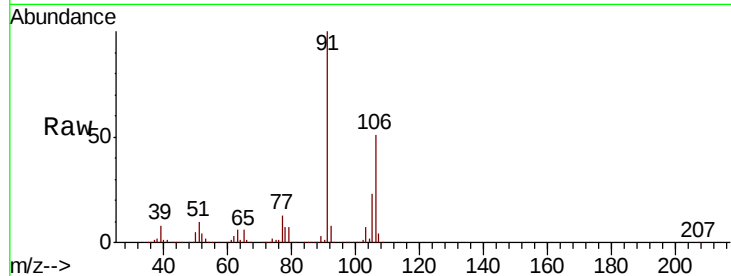
#68
m/p-Xylenes
Concen: 105.033 ug/l
RT: 11.84 min Scan# 1630
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion:106 Resp: 413492
Ion Ratio Lower Upper
106 100
91 196.6 159.1 238.7

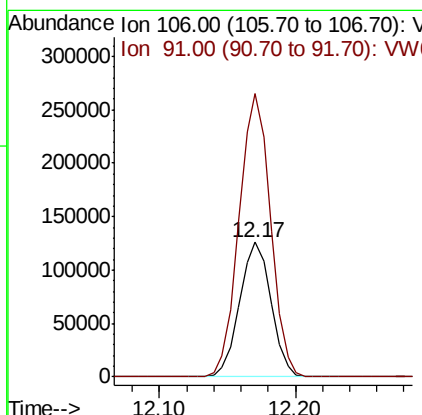
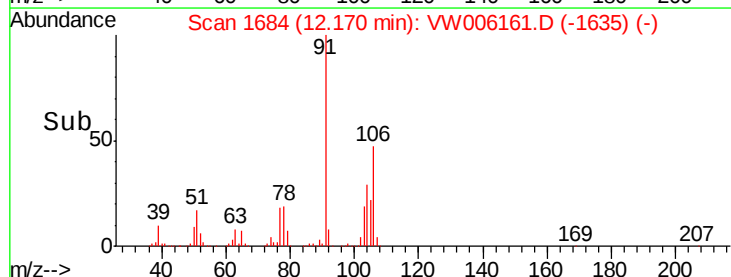
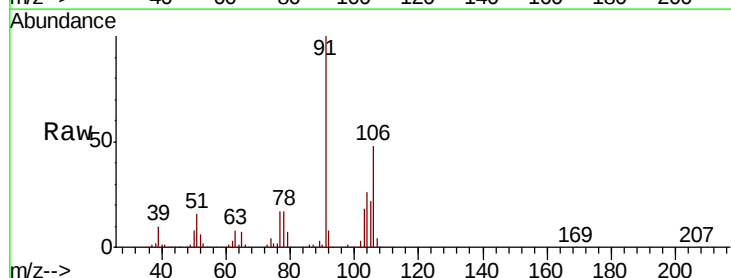
Manual Integrations
APPROVED

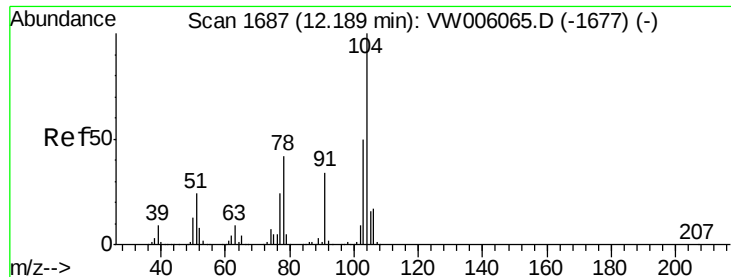
apatel
10/18/2018 4:40:24 PM



#69
o-Xylene
Concen: 54.323 ug/l
RT: 12.17 min Scan# 1684
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion:106 Resp: 203813
Ion Ratio Lower Upper
106 100
91 209.9 105.4 316.1





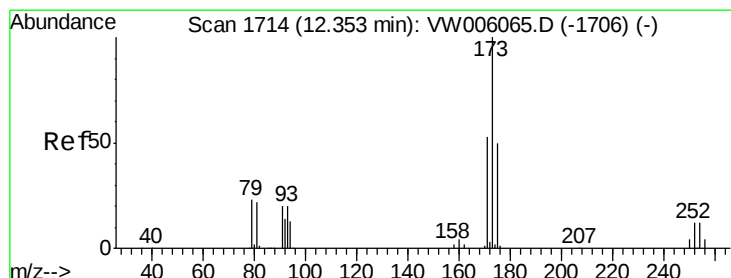
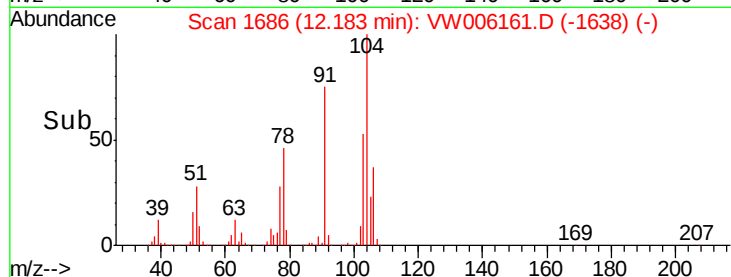
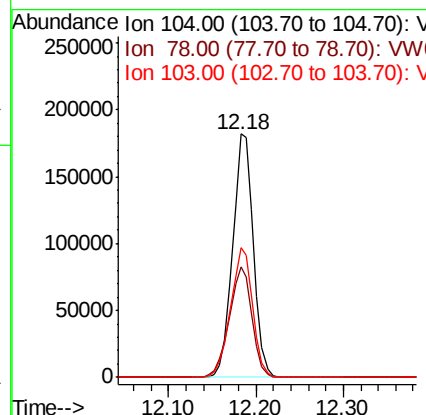
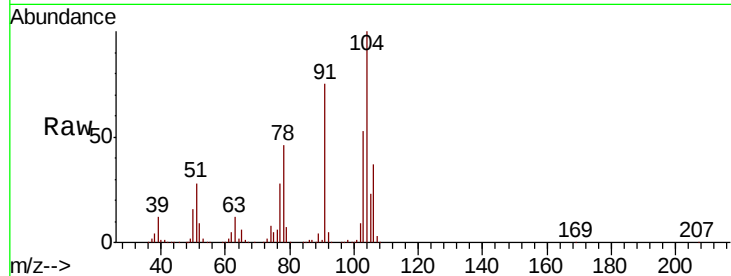
#70
Stvrene
Concen: 48.971 ug/l
RT: 12.18 min Scan# 1686
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion	Ratio	Resp	Lower	Upper
104	100	298774		
78	49.4		39.1	58.7
103	56.4		44.3	66.5

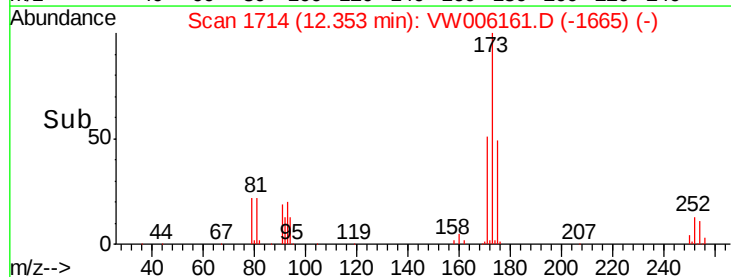
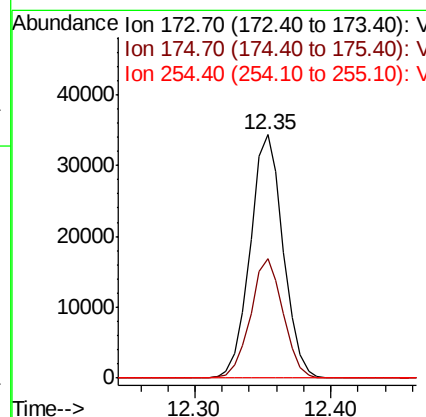
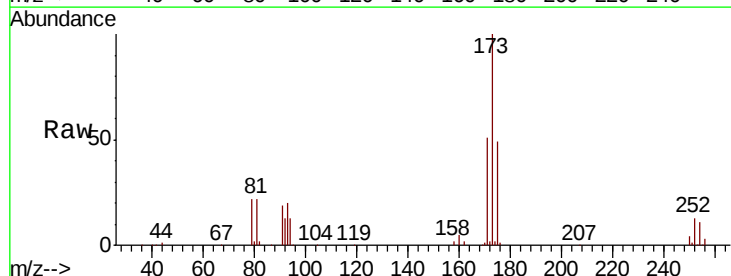
Manual Integrations
APPROVED

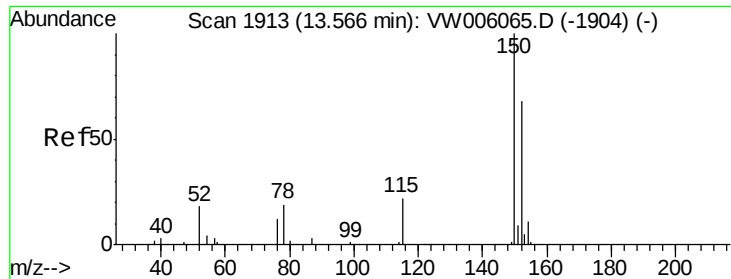
apatel
10/18/2018 4:40:24 PM



#71
Bromoform
Concen: 51.038 ug/l
RT: 12.35 min Scan# 1714
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Resp	Lower	Upper
173	100	58143		
175	48.6		24.2	72.6
254	0.1		0.1	0.1#





#72

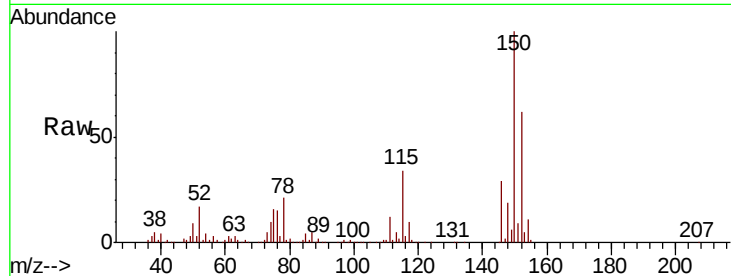
1,4-Dichlorobenzene-d4
Concen: 50.000 ug/l
RT: 13.57 min Scan# 1913
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion	Ratio	Lower	Upper
152	100		
115	55.5	27.8	83.3
150	173.9	0.0	349.2

Manual Integrations
APPROVED

apatel
10/18/2018 4:40:24 PM

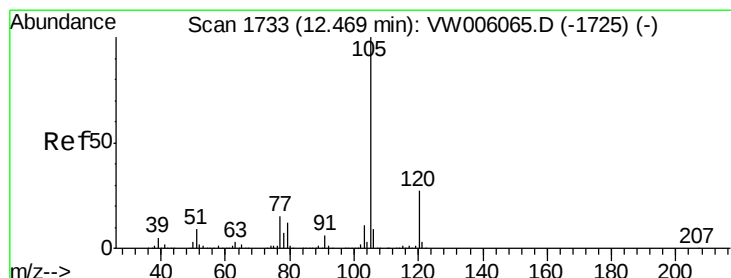
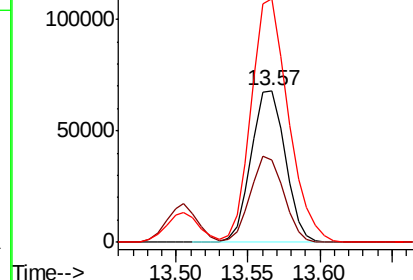
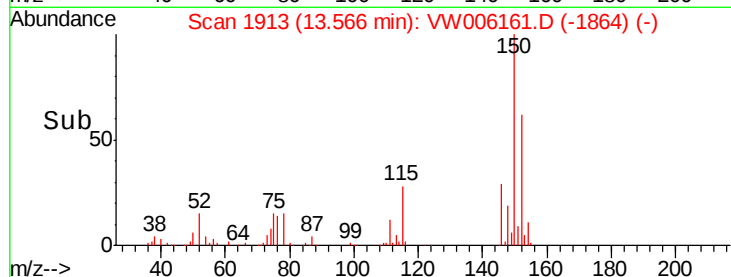


Abundance

Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

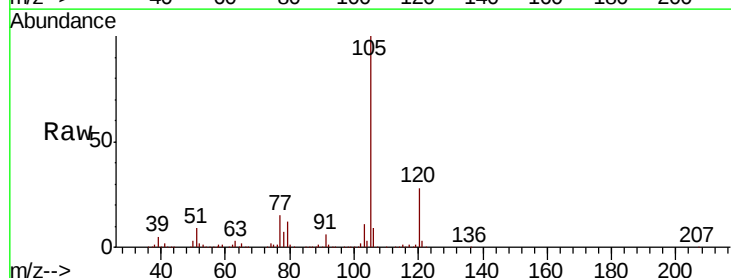
Ion 149.90 (149.60 to 150.60): V



#73

Isopropylbenzene
Concen: 63.077 ug/l
RT: 12.47 min Scan# 1733
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

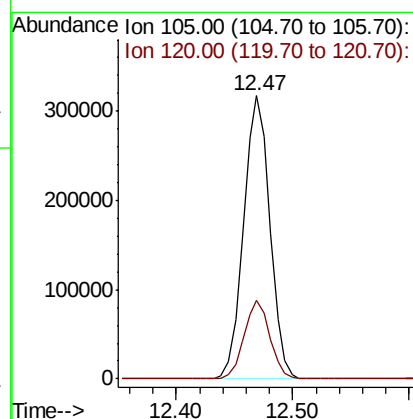
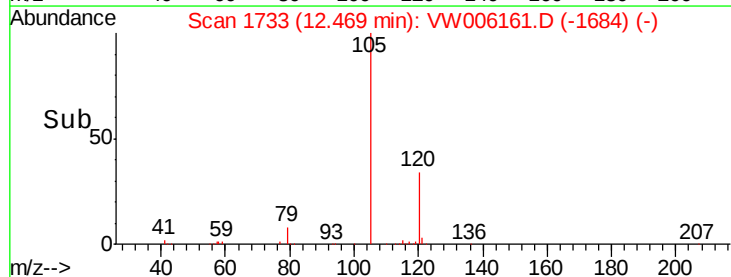
Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.1	13.6	40.7

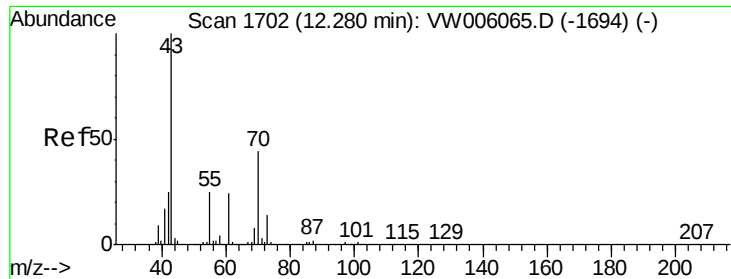


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





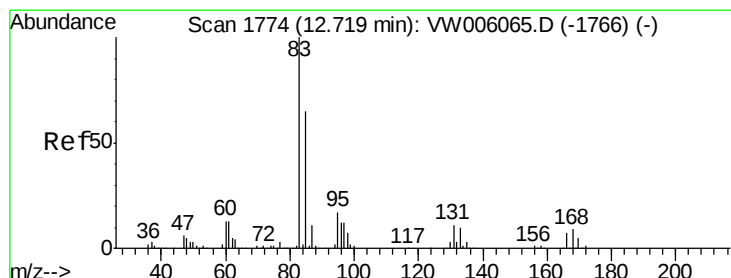
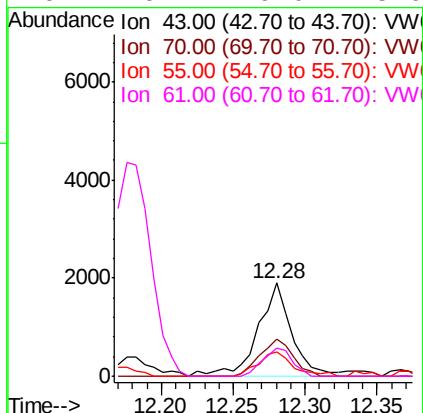
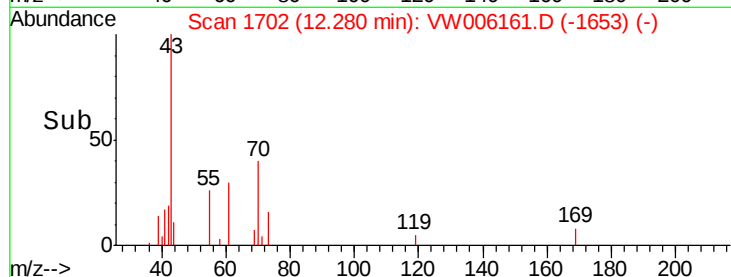
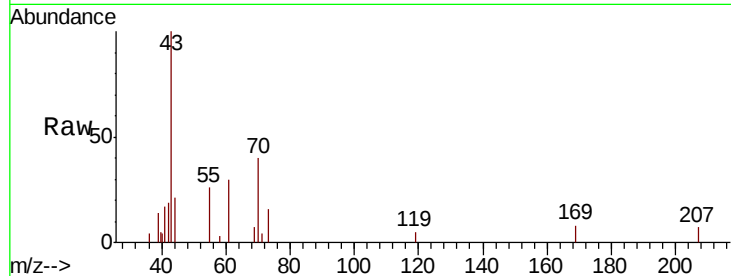
#74
N-amvl acetate
Concen: 2.001 ug/l
RT: 12.28 min Scan# 1702
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion	Ratio	Lower	Upper
43	100		
70	38.6	34.2	51.4
55	26.8	19.2	28.8
61	26.4	19.0	28.6

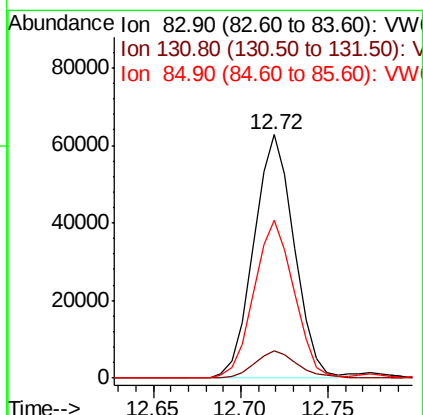
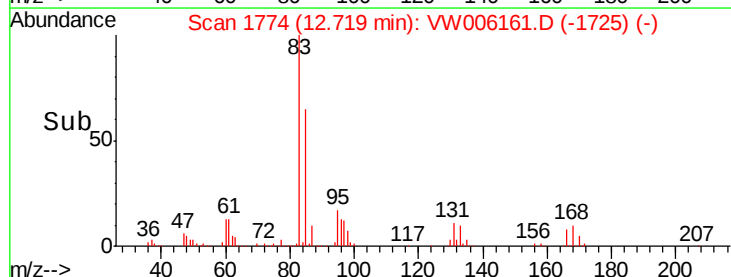
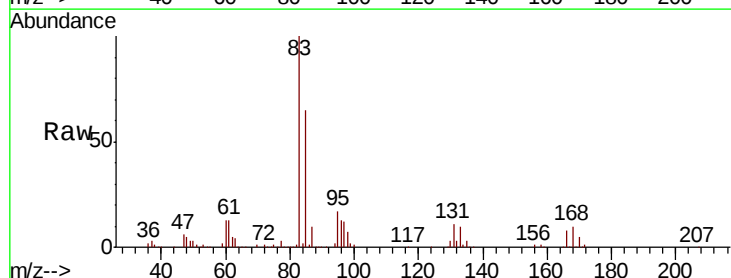
Manual Integrations
APPROVED

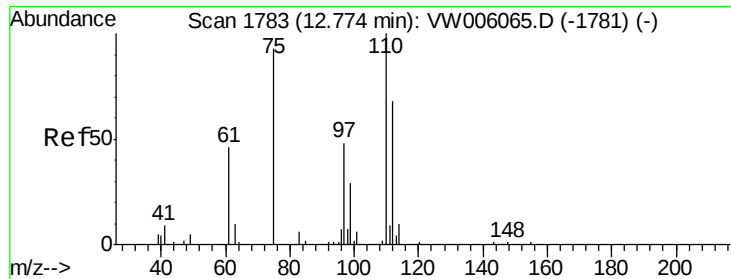
apatel
10/18/2018 4:40:24 PM



#75
1,1,2,2-Tetrachloroethane
Concen: 84.419 ug/l
RT: 12.72 min Scan# 1774
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Lower	Upper
83	100		
131	12.0	5.9	17.7
85	64.2	31.9	95.9





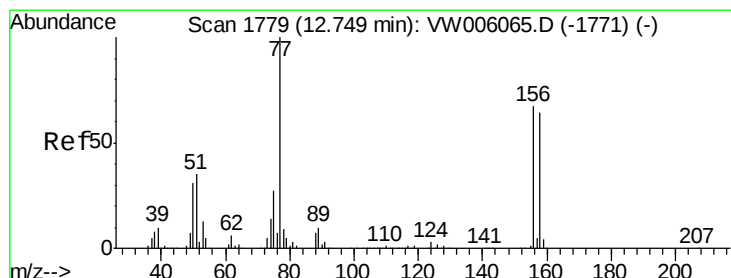
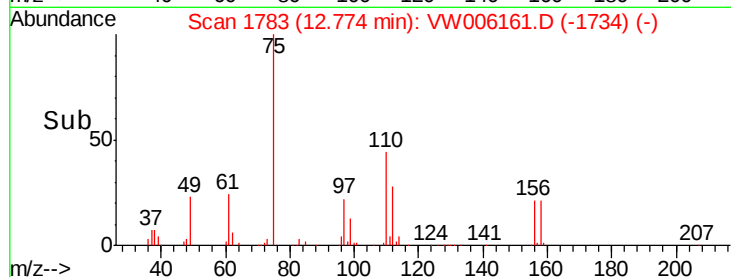
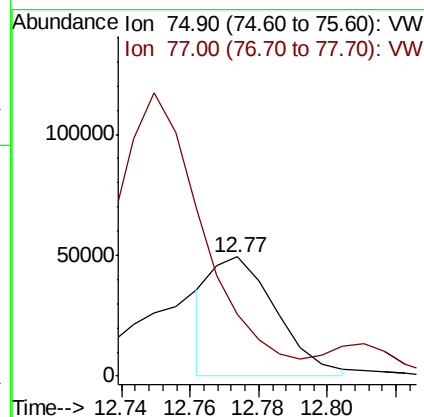
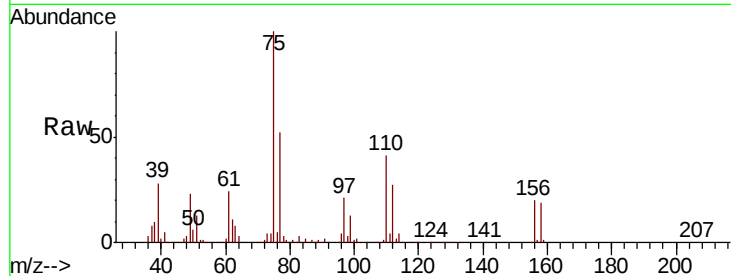
#76
 1,2,3-Trichloropropane
 Concen: 76.689 ug/l m
 RT: 12.77 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Instrument :
 MSVOA_W
 ClientSampleId :
 RLF-SD-5MS

Tot Ion: 75 Resp: 65460
 Ion Ratio Lower Upper
 75 100
 77 0.0 0.0 0.0

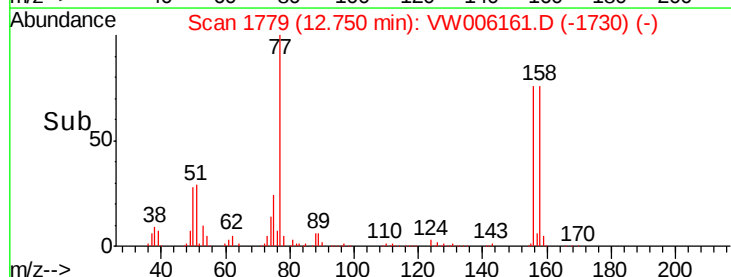
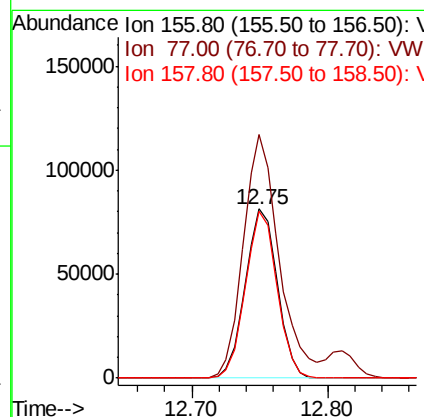
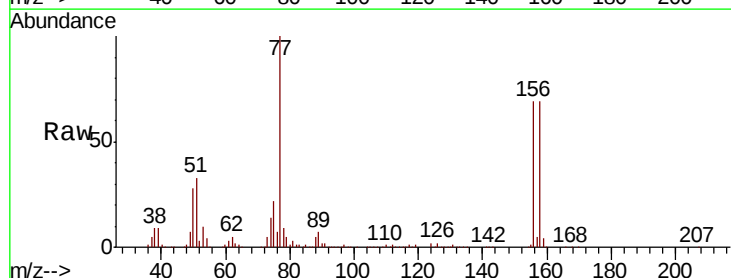
Manual Integrations
 APPROVED

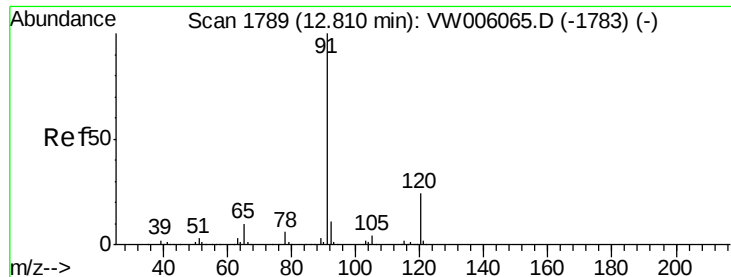
apatel
 10/18/2018 4:40:24 PM



#77
 Bromobenzene
 Concen: 69.716 ug/l
 RT: 12.75 min Scan# 1779
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Tgt Ion: 156 Resp: 134814
 Ion Ratio Lower Upper
 156 100
 77 159.0 79.1 237.4
 158 96.8 48.5 145.6





#78

n-propylbenzene

Concen: 55.895 ug/l

RT: 12.81 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

ClientSampleId :

RLF-SD-5MS

Tot Ion: 91 Resp: 513410

Ion Ratio Lower Upper

91 100

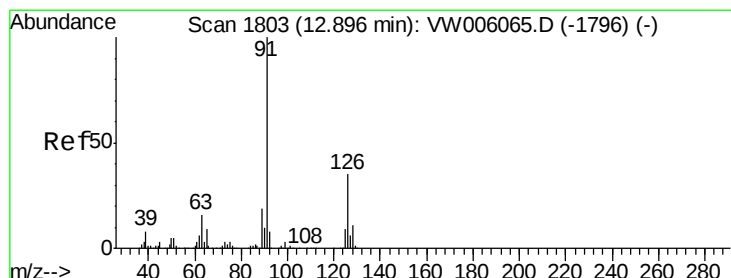
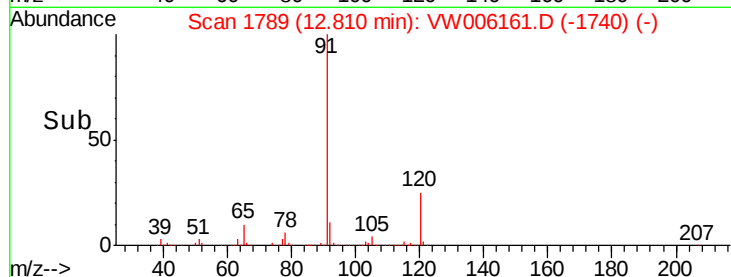
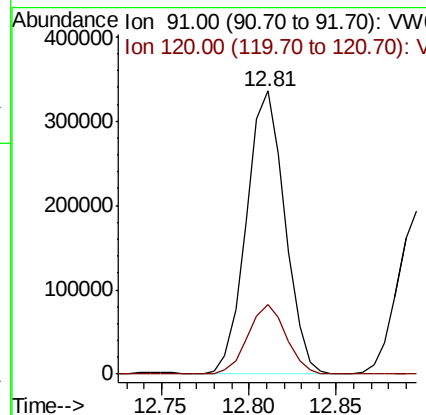
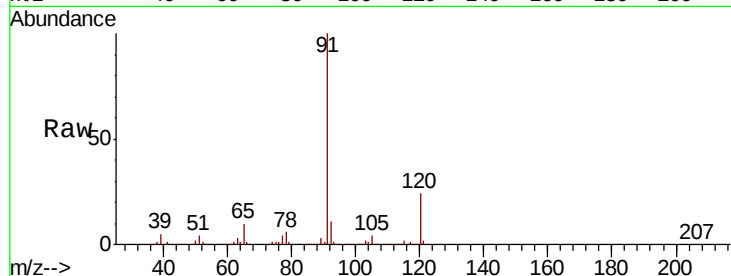
120 24.2 12.2 36.6

Manual Integrations

APPROVED

apatel

10/18/2018 4:40:24 PM



#79

2-Chlorotoluene

Concen: 60.082 ug/l

RT: 12.90 min Scan# 1803

Delta R.T. 0.00 min

Lab File: VW006161.D

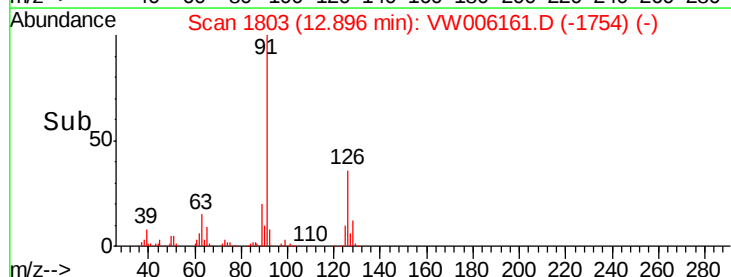
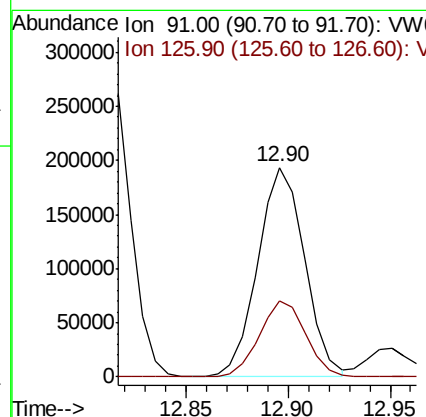
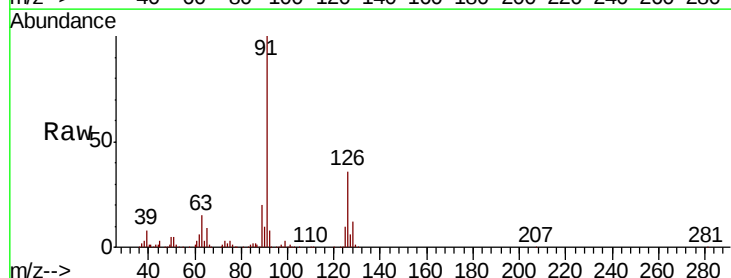
Acq: 18 Oct 2018 08:23

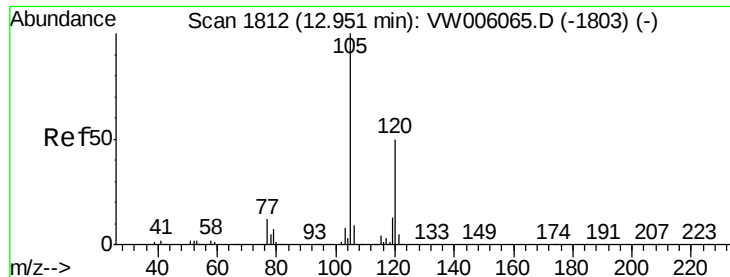
Tgt Ion: 91 Resp: 310075

Ion Ratio Lower Upper

91 100

126 36.2 17.9 53.8





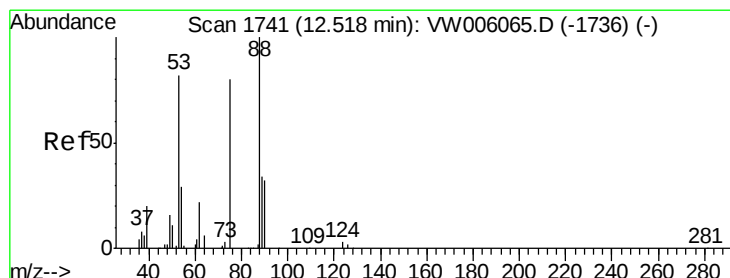
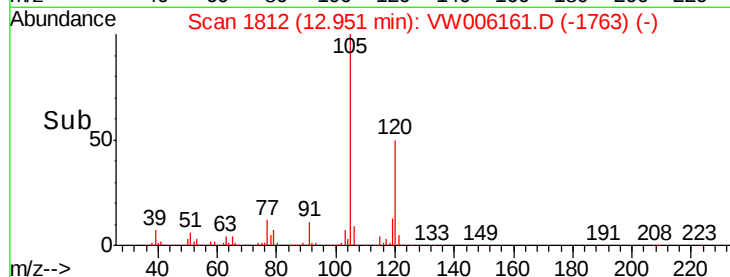
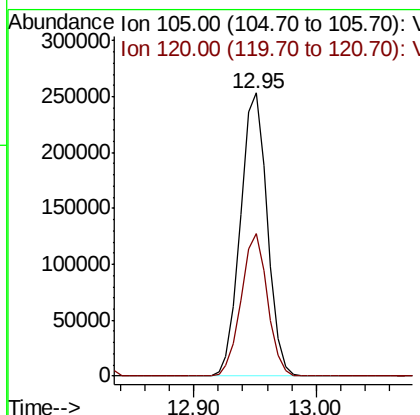
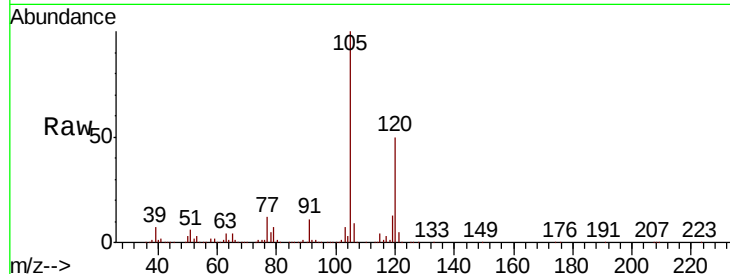
#80
 1,3,5-Trimethylbenzene
 Concen: 57.770 ug/l
 RT: 12.95 min Scan# 1812
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Instrument :
 MSVOA_W
 ClientSampled :
 RLF-SD-5MS

Tot Ion	Ratio	Lower	Upper
105	100		
120	49.3	24.9	74.6

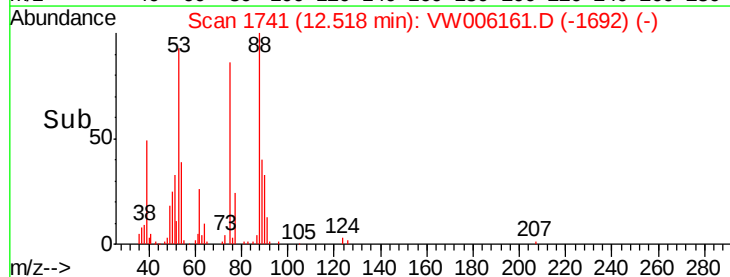
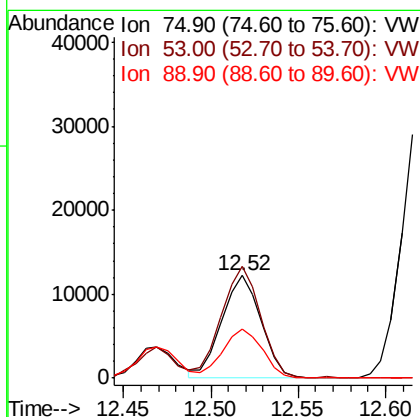
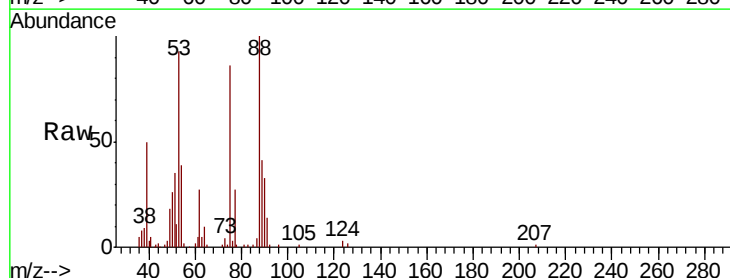
Manual Integrations
 APPROVED

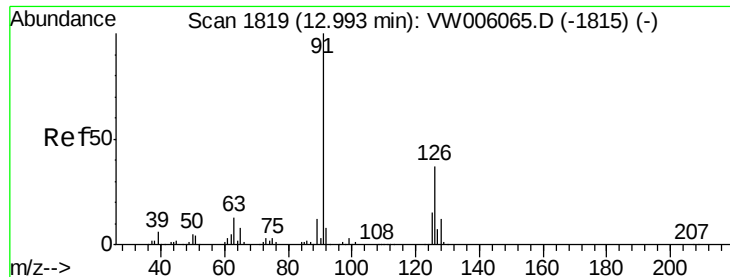
apatel
 10/18/2018 4:40:24 PM



#81
 trans-1,4-Dichloro-2-butene
 Concen: 53.738 ug/l
 RT: 12.52 min Scan# 1741
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Lower	Upper
75	100		
53	107.0	79.8	119.6
89	47.6	37.5	56.3





#82

4-Chlorotoluene

Concen: 58.965 ug/l

RT: 12.99 min Scan# 1819

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

Instrument :

MSVOA_W

ClientSampleId :

RLF-SD-5MS

Tot Ion: 91 Resp: 318774

Ion Ratio Lower Upper

91 100

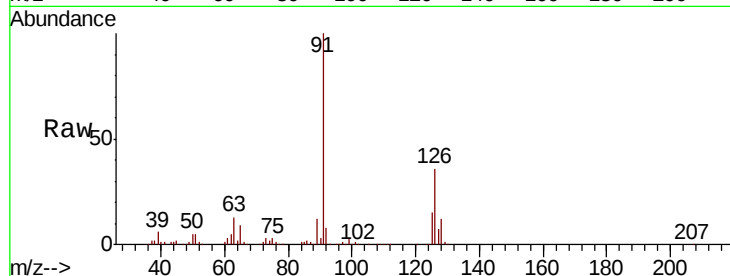
126 35.9 18.1 54.3

Manual Integrations

APPROVED

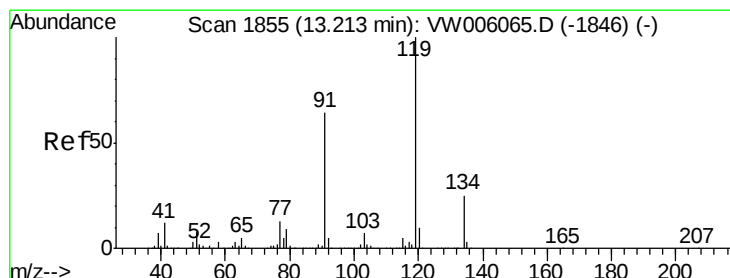
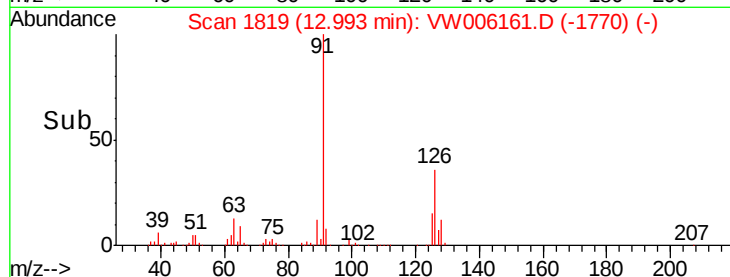
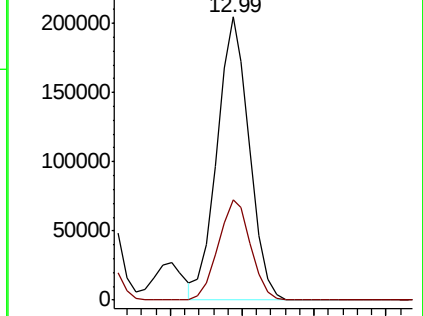
apatel

10/18/2018 4:40:24 PM



Abundance Ion 91.00 (90.70 to 91.70): VW

Ion 125.90 (125.60 to 126.60): V



#83

tert-Butylbenzene

Concen: 55.305 ug/l

RT: 13.21 min Scan# 1855

Delta R.T. 0.00 min

Lab File: VW006161.D

Acq: 18 Oct 2018 08:23

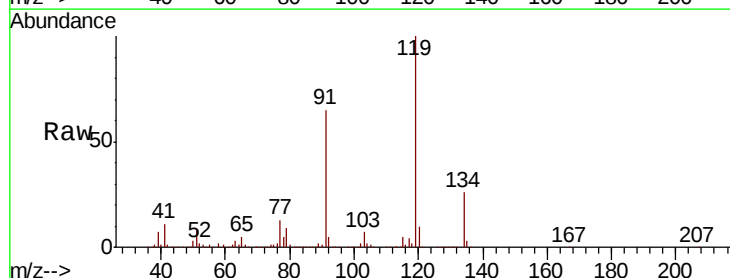
Tgt Ion: 119 Resp: 329334

Ion Ratio Lower Upper

119 100

91 62.4 32.3 96.9

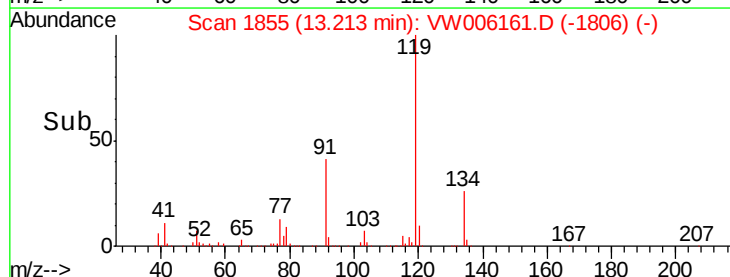
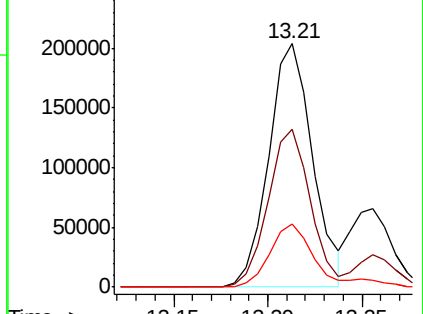
134 25.3 13.6 40.8

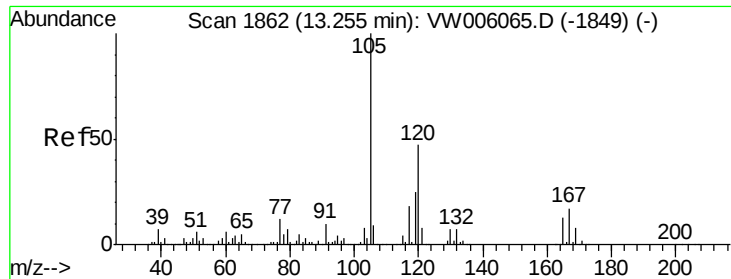


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 91.00 (90.70 to 91.70): VW

Ion 134.00 (133.70 to 134.70): V





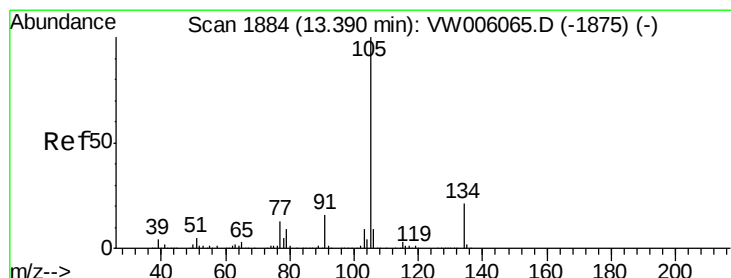
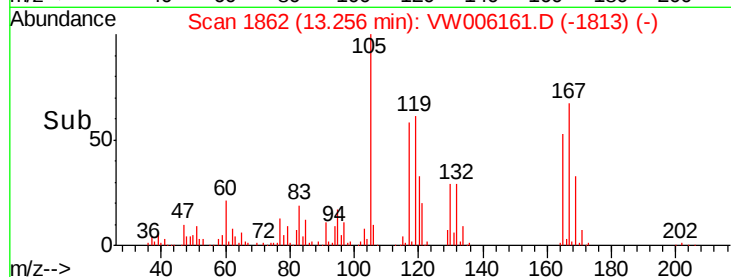
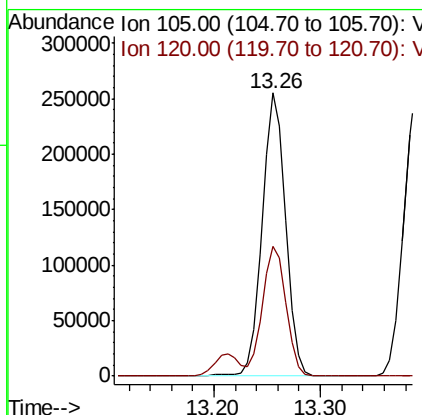
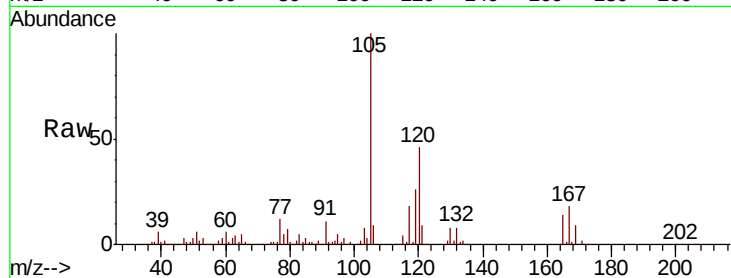
#84
 1,2,4-Trimethylbenzene
 Concen: 58.531 ug/l
 RT: 13.26 min Scan# 1862
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Instrument :
 MSVOA_W
 ClientSampleId :
 RLF-SD-5MS

Tot Ion:105 Resp: 394208
 Ion Ratio Lower Upper
 105 100
 120 45.7 23.1 69.3

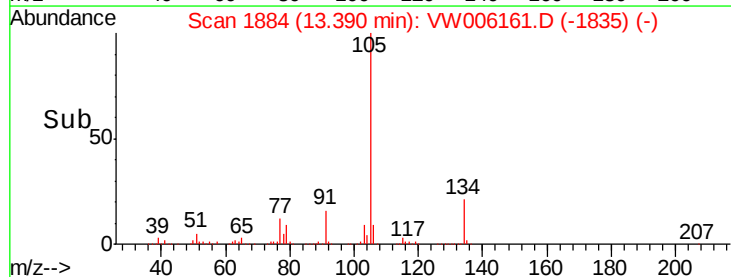
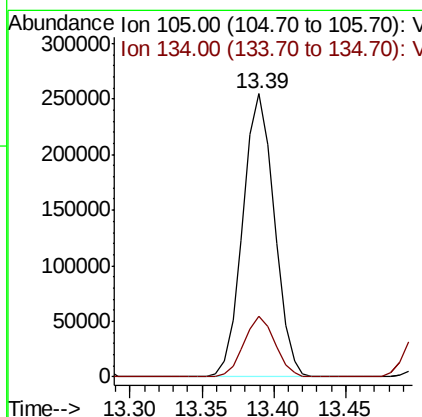
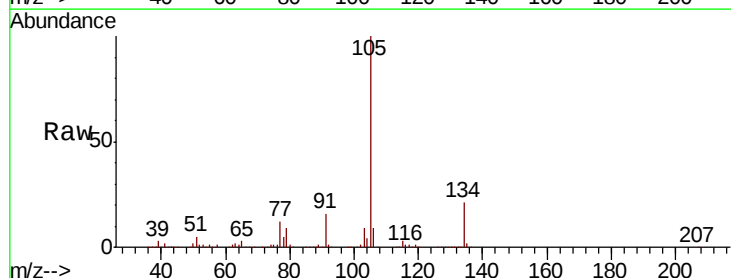
Manual Integrations
 APPROVED

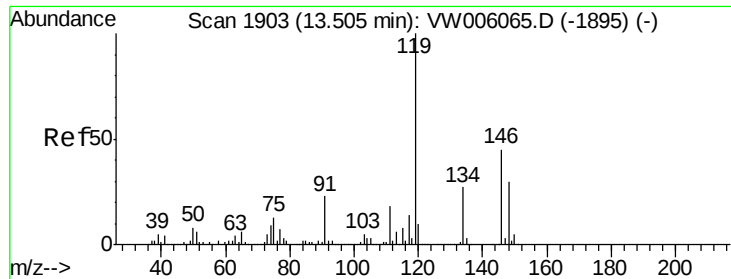
apatel
 10/18/2018 4:40:24 PM



#85
 sec-Butylbenzene
 Concen: 45.951 ug/l
 RT: 13.39 min Scan# 1884
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Tgt Ion:105 Resp: 386573
 Ion Ratio Lower Upper
 105 100
 134 21.1 10.5 31.6





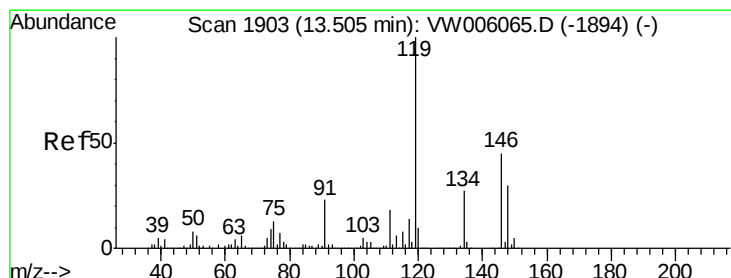
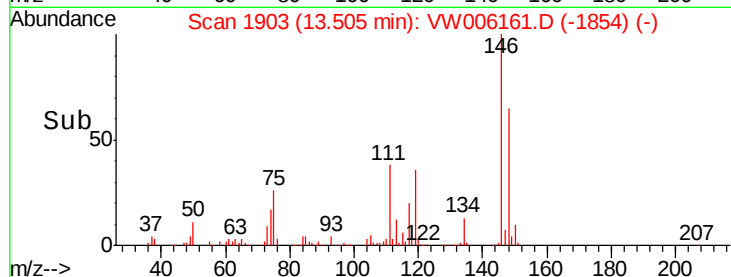
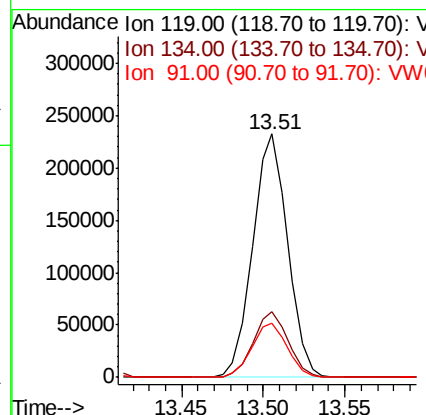
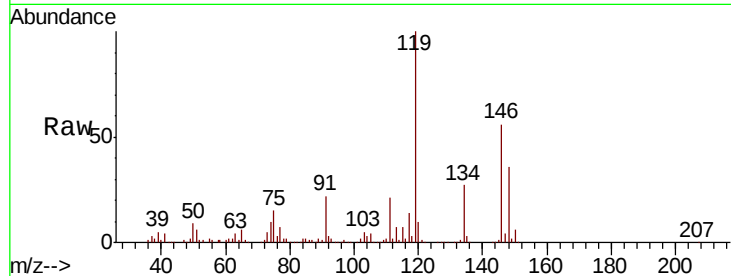
#86
 p-Isopropyltoluene
 Concen: 45.343 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Instrument :
 MSVOA_W
 ClientSampleId :
 RLF-SD-5MS

Tot Ion	Ratio	Resp	Lower	Upper
119	100	345027		
134	26.9	13.4	40.2	
91	22.7	11.4	34.1	

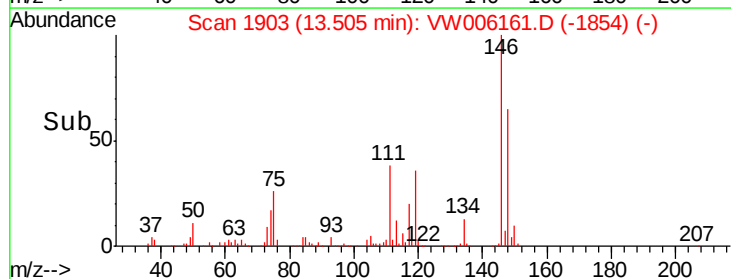
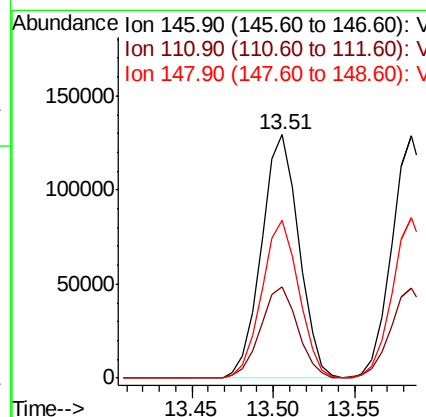
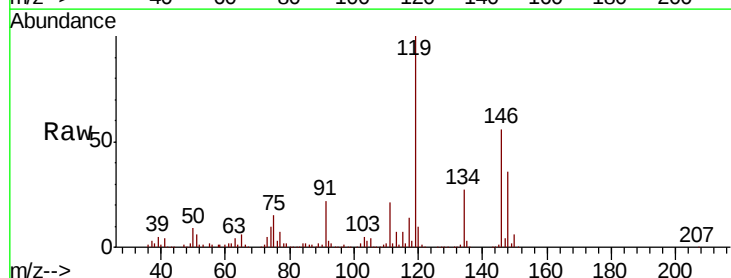
Manual Integrations
 APPROVED

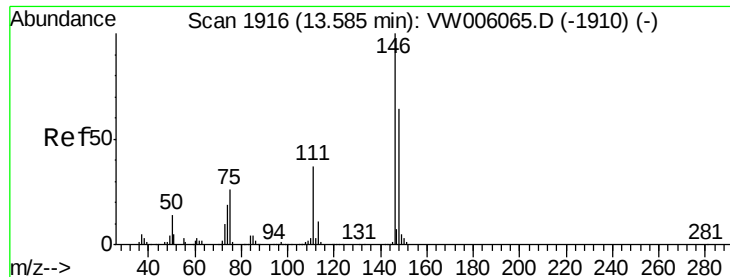
apatel
 10/18/2018 4:40:24 PM



#87
 1,3-Dichlorobenzene
 Concen: 53.471 ug/l
 RT: 13.51 min Scan# 1903
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	205783		
111	37.5	19.1	57.5	
148	64.0	32.0	96.2	





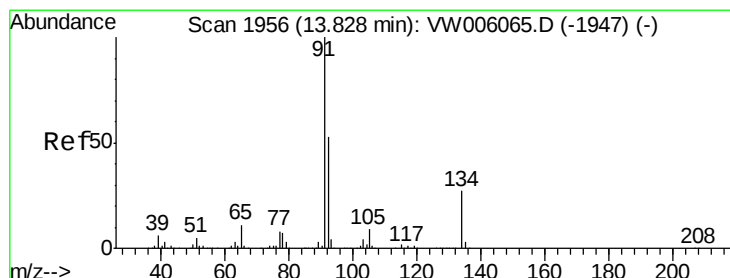
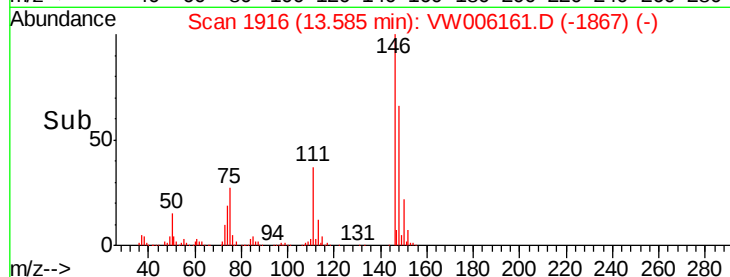
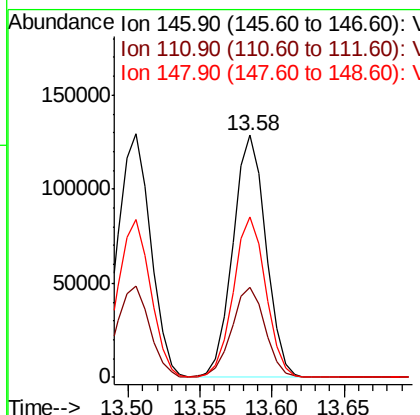
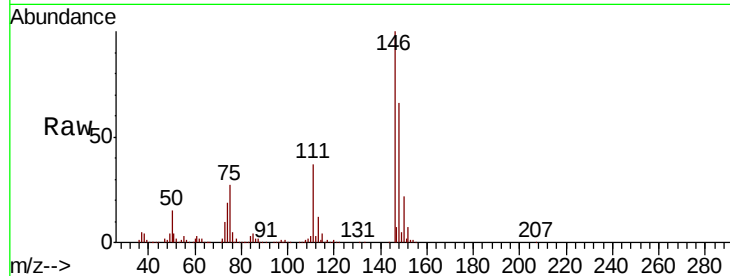
#88
 1,4-Dichlorobenzene
 Concen: 53.676 ug/l
 RT: 13.58 min Scan# 1916
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Instrument :
 MSVOA_W
 ClientSampleId :
 RLF-SD-5MS

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.6	56.0
148	65.3	32.1	96.5

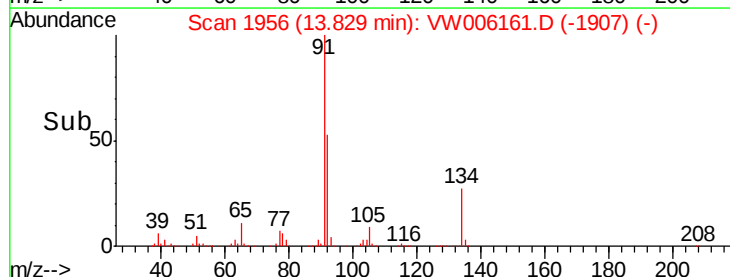
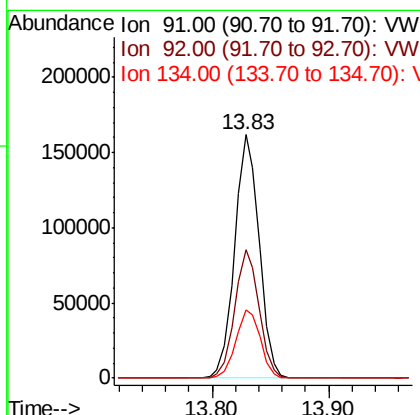
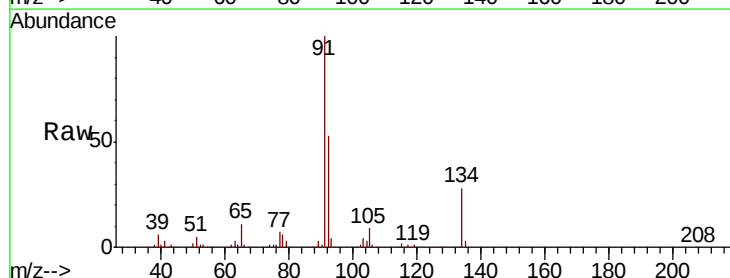
Manual Integrations
 APPROVED

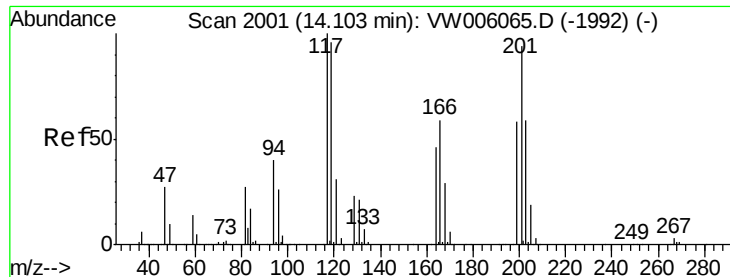
apatel
 10/18/2018 4:40:24 PM



#89
 n-Butylbenzene
 Concen: 33.919 ug/l
 RT: 13.83 min Scan# 1956
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Lower	Upper
91	100		
92	52.1	26.6	79.7
134	28.1	14.0	41.9





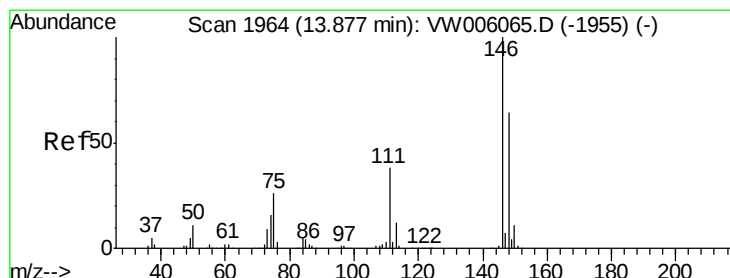
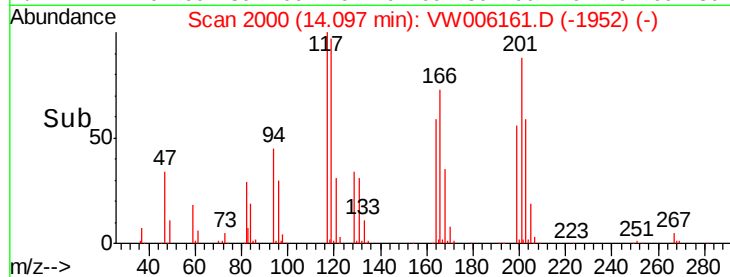
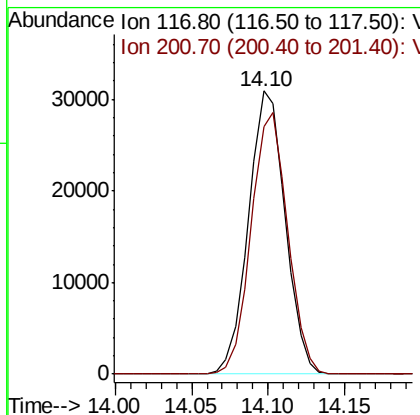
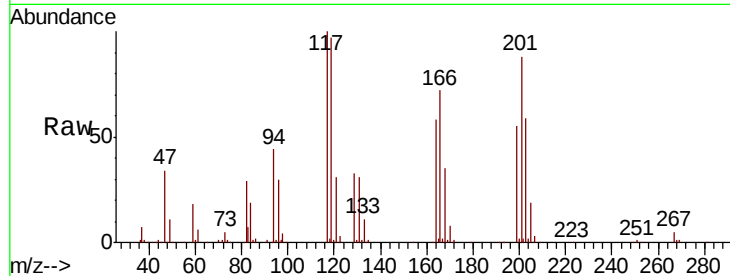
#90
Hexachloroethane
Concen: 39.977 ug/l
RT: 14.10 min Scan# 2000
Delta R.T. -0.01 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion:117 Resp: 51526
Ion Ratio Lower Upper
117 100
201 92.0 45.3 135.9

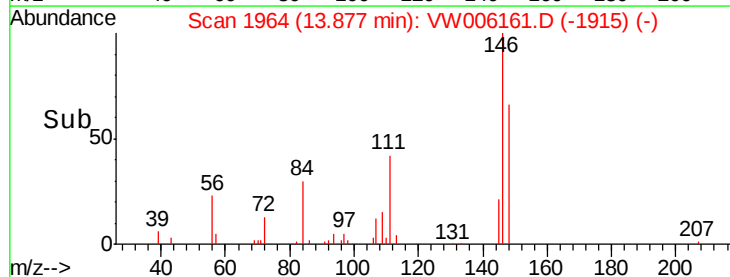
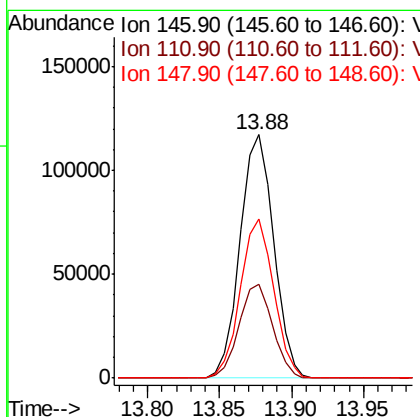
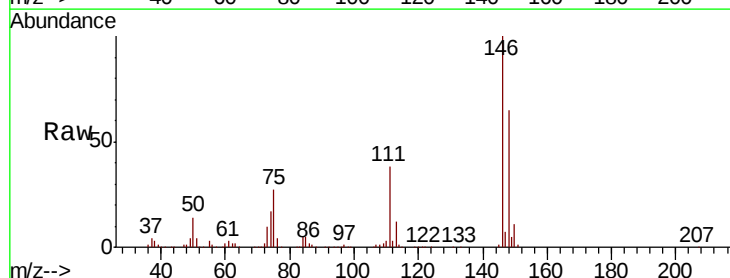
Manual Integrations
APPROVED

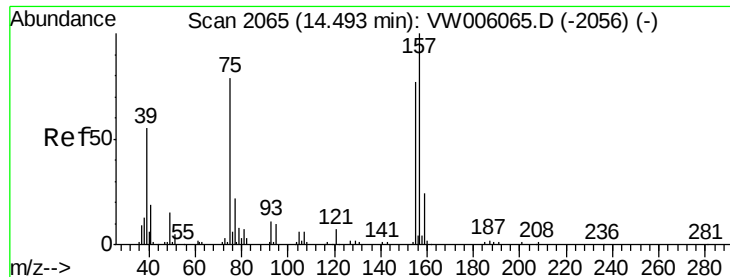
apatel
10/18/2018 4:40:24 PM



#91
1,2-Dichlorobenzene
Concen: 55.459 ug/l
RT: 13.88 min Scan# 1964
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion:146 Resp: 190383
Ion Ratio Lower Upper
146 100
111 38.8 19.6 58.7
148 64.6 32.2 96.6





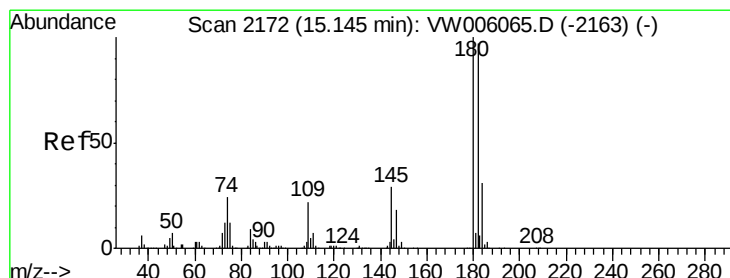
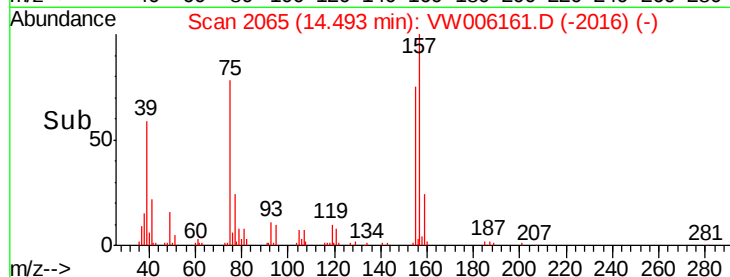
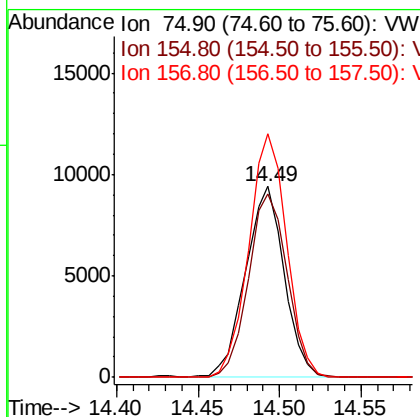
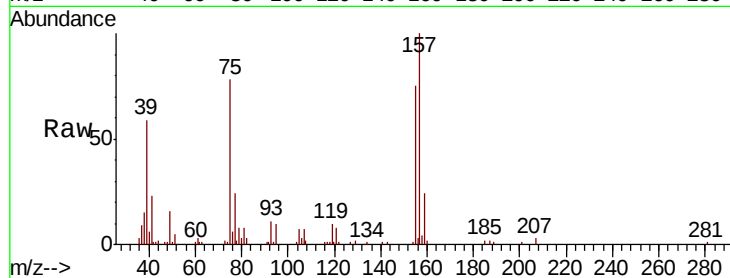
#92
 1,2-Dibromo-3-Chloropropane
 Concen: 72.430 ug/l
 RT: 14.49 min Scan# 2065
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Instrument :
 MSVOA_W
 ClientSampleId :
 RLF-SD-5MS

Tot Ion	Ratio	Lower	Upper
75	100		
155	95.8	46.5	139.5
157	124.3	59.8	179.4

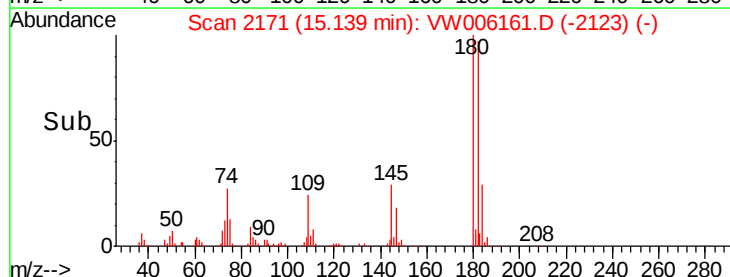
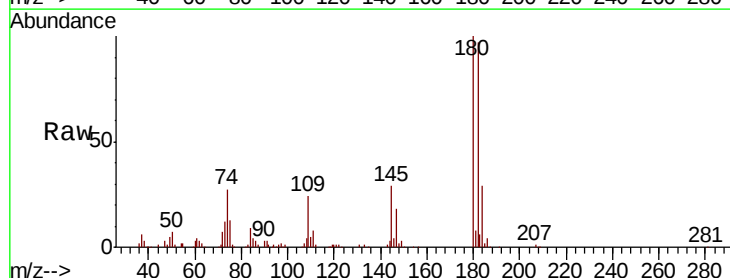
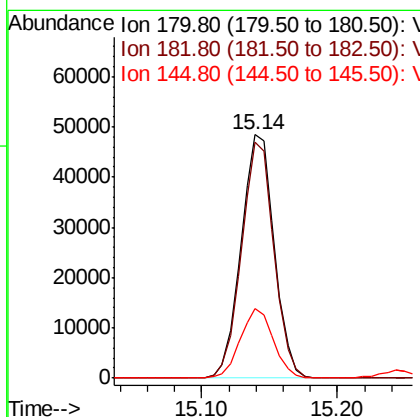
Manual Integrations
 APPROVED

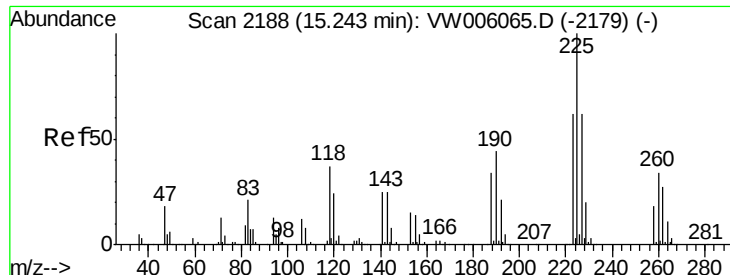
apatel
 10/18/2018 4:40:24 PM



#93
 1,2,4-Trichlorobenzene
 Concen: 31.127 ug/l
 RT: 15.14 min Scan# 2171
 Delta R.T. -0.01 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Lower	Upper
180	100		
182	95.0	47.9	143.6
145	28.2	14.2	42.8





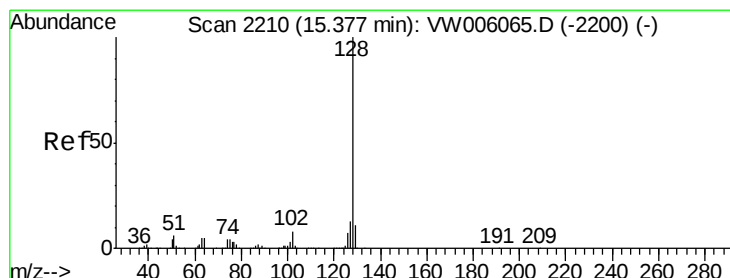
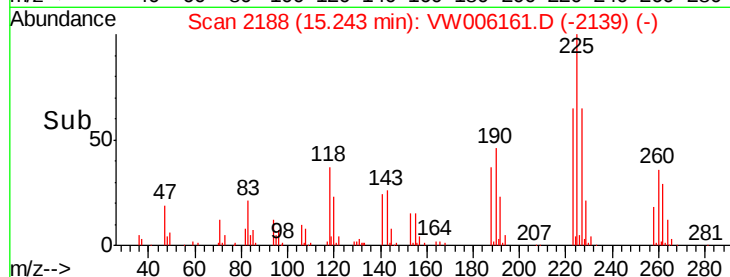
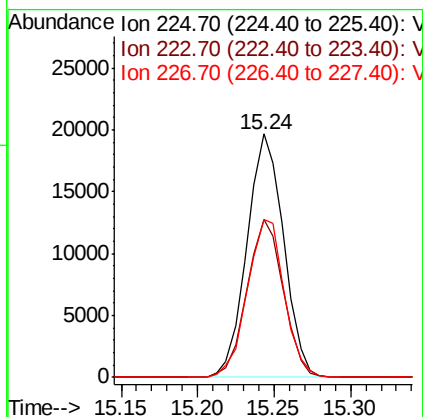
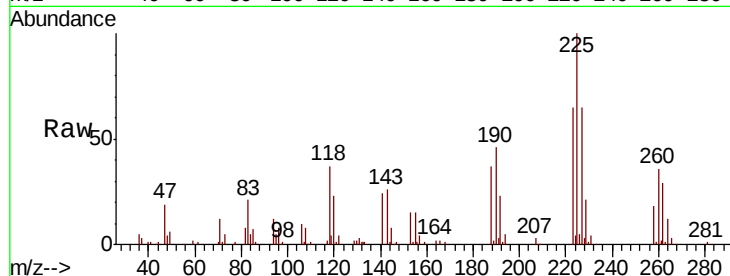
#94
Hexachlorobutadiene
Concen: 19.771 ug/l
RT: 15.24 min Scan# 2188
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Instrument :
MSVOA_W
ClientSampleId :
RLF-SD-5MS

Tot Ion	Ratio	Resp	Lower	Upper
225	100	32806		
223	64.2		31.1	93.5
227	65.1		32.4	97.0

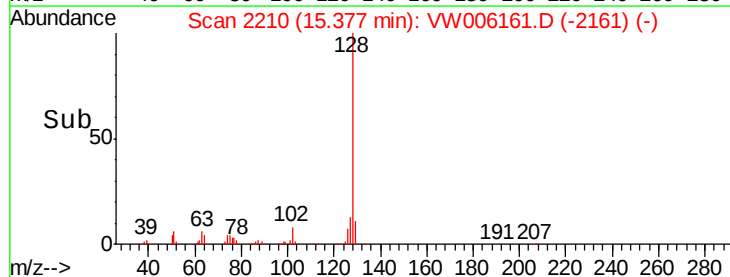
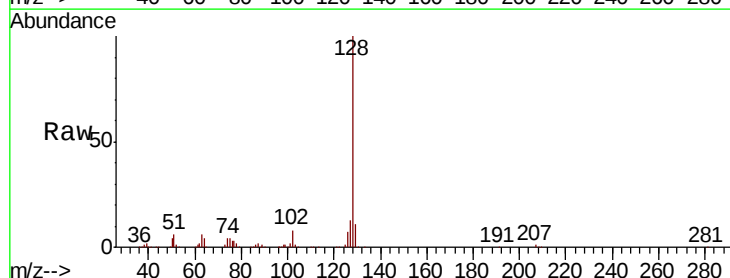
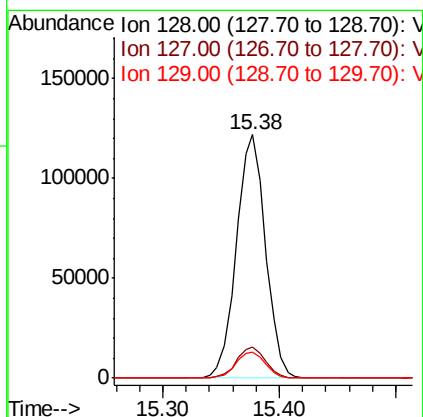
Manual Integrations
APPROVED

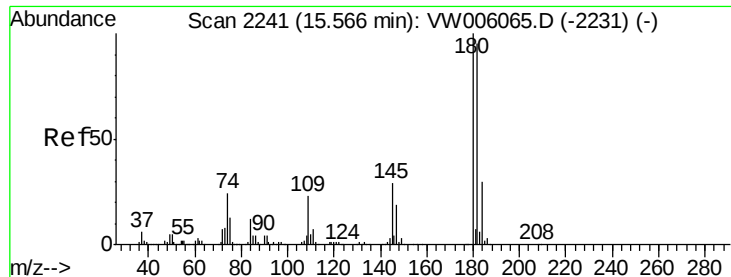
apatel
10/18/2018 4:40:24 PM



#95
Naphthalene
Concen: 48.307 ug/l
RT: 15.38 min Scan# 2210
Delta R.T. 0.00 min
Lab File: VW006161.D
Acq: 18 Oct 2018 08:23

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	212258		
127	12.9		10.3	15.5
129	11.0		8.7	13.1





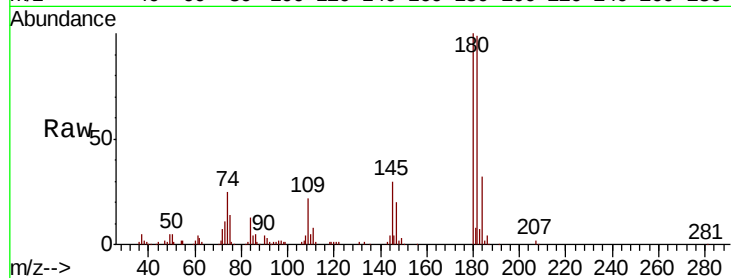
#96
 1,2,3-Trichlorobenzene
 Concen: 30.746 ug/l
 RT: 15.57 min Scan# 2241
 Delta R.T. 0.00 min
 Lab File: VW006161.D
 Acq: 18 Oct 2018 08:23

Instrument :
 MSVOA_W
 ClientSampleId :
 RLF-SD-5MS

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.2	47.8	143.3
145	29.8	15.0	45.1

Manual Integrations
 APPROVED

apatel
 10/18/2018 4:40:24 PM



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

