

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051118\
 Data File : VX001638.D
 Acq On : 11 May 2018 14:38
 Operator : JC/MD
 Sample : VX0511WBS02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0511WBS02

Manual Integrations
 APPROVED

apatel
 5/14/2018 3:58:15 PM

Quant Time: May 12 05:59:51 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
 Quant Title : SW846 8260
 QLast Update : Sun May 06 07:59:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	280261	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	355144	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	329307	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.09	152	236982	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	182247	45.24	ug/l	0.00
Spiked Amount	50.000		Recovery	=	90.48%	
35) Dibromofluoromethane	5.51	113	150411	47.61	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.22%	
50) Toluene-d8	8.72	98	537831	46.64	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.28%	
62) 4-Bromofluorobenzene	11.14	95	204799	46.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.54%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	76117	20.18	ug/l	98
3) Chloromethane	1.32	50	69223	18.84	ug/l	100
4) Vinyl Chloride	1.40	62	74521	19.43	ug/l	99
5) Bromomethane	1.64	94	41176	21.50	ug/l	97
6) Chloroethane	1.72	64	52158	20.58	ug/l	99
7) Trichlorofluoromethane	1.93	101	118151	20.47	ug/l	99
8) Diethyl Ether	2.19	74	44680	19.75	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	2.39	101	71812	21.22	ug/l	99
10) Methyl Iodide	2.51	142	59379	12.16	ug/l	99
11) Tert butyl alcohol	3.07	59	84453	99.44	ug/l	99
12) 1,1-Dichloroethene	2.37	96	61270	19.76	ug/l	97
13) Acrolein	2.29	56	10452	53.24	ug/l	93
14) Allyl chloride	2.73	41	117049	20.24	ug/l	99
15) Acrylonitrile	3.15	53	187154	97.52	ug/l	99
16) Acetone	2.45	43	192427	105.20	ug/l	97
17) Carbon Disulfide	2.57	76	143613	18.20	ug/l	98
18) Methyl Acetate	2.78	43	104746	21.80	ug/l	98
19) Methyl tert-butyl Ether	3.21	73	223367	20.69	ug/l	99
20) Methylene Chloride	2.86	84	72197	19.94	ug/l	96
21) trans-1,2-Dichloroethene	3.17	96	66793	19.30	ug/l	98
22) Diisopropyl ether	3.87	45	231030	21.38	ug/l	98
23) Vinyl Acetate	3.82	43	948140	105.31	ug/l	99
24) 1,1-Dichloroethane	3.70	63	125305	20.76	ug/l	99
25) 2-Butanone	4.71	43	271541	102.70	ug/l	99
26) 2,2-Dichloropropane	4.59	77	105111	22.55	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	76559	20.77	ug/l	98
28) Bromochloromethane	5.02	49	55356	21.16	ug/l	98
29) Tetrahydrofuran	5.17	42	163833	96.84	ug/l	100
30) Chloroform	5.22	83	131519	21.16	ug/l	99
31) Cyclohexane	5.58	56	107742	20.79	ug/l	96
32) 1,1,1-Trichloroethane	5.49	97	117072	21.55	ug/l	100
36) 1,1-Dichloropropene	5.80	75	93917	20.79	ug/l	99
37) Ethyl Acetate	4.87	43	99989	20.19	ug/l	99
38) Carbon Tetrachloride	5.79	117	104654	21.72	ug/l	99

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051118\
 Data File : VX001638.D
 Acq On : 11 May 2018 14:38
 Operator : JC/MD
 Sample : VX0511WBS02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 4 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX0511WBS02

Manual Integrations
 APPROVED

apatel
 5/14/2018 3:58:15 PM

Quant Time: May 12 05:59:51 2018
 Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
 Quant Title : SW846 8260
 QLast Update : Sun May 06 07:59:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	114255	21.39	ug/l	99
40) Benzene	6.15	78	280087	21.23	ug/l	99
41) Methacrylonitrile	5.07	41	58016	20.48	ug/l	99
42) 1,2-Dichloroethane	6.20	62	109018	21.50	ug/l	100
43) Isopropyl Acetate	6.47	43	159425	20.97	ug/l	100
44) Trichloroethene	7.21	130	85462	21.19	ug/l	99
45) 1,2-Dichloropropane	7.52	63	69112	21.01	ug/l	98
46) Dibromomethane	7.67	93	48995	21.04	ug/l	99
47) Bromodichloromethane	7.90	83	94335	21.89	ug/l	99
48) Methyl methacrylate	7.78	41	85439	20.64	ug/l	100
49) 1,4-Dioxane	7.76	88	35522	397.20	ug/l	98
51) 4-Methyl-2-Pentanone	8.66	43	531322	105.18	ug/l	99
52) Toluene	8.79	92	186253	21.59	ug/l	99
53) t-1,3-Dichloropropene	8.44	75	108555	22.29	ug/l	99
54) cis-1,3-Dichloropropene	9.05	75	96254	20.51	ug/l	99
55) 1,1,2-Trichloroethane	9.22	97	76075	21.89	ug/l	98
56) Ethyl methacrylate	9.19	69	106698	21.29	ug/l	99
57) 1,3-Dichloropropane	9.38	76	121807	21.19	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.32	63	243564	99.11	ug/l	99
59) 2-Hexanone	9.50	43	401179	103.71	ug/l	100
60) Dibromochloromethane	9.59	129	76399	21.46	ug/l	97
61) 1,2-Dibromoethane	9.68	107	76800	21.04	ug/l	100
64) Tetrachloroethene	9.34	164	100576	21.91	ug/l	99
65) Chlorobenzene	10.14	112	210478	21.79	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.23	131	77771	22.51	ug/l	99
67) Ethyl Benzene	10.26	91	345503	21.83	ug/l	100
68) m/p-Xylenes	10.37	106	276028	44.13	ug/l	100
69) o-Xylene	10.70	106	132786	21.84	ug/l	99
70) Styrene	10.72	104	219277	22.20	ug/l	99
71) Bromoform	10.86	173	59924	20.32	ug/l	100
73) Isopropylbenzene	11.02	105	367011	22.37	ug/l	100
74) N-amyl acetate	6.47	43	159425	21.39	ug/l #	100
75) 1,1,2,2-Tetrachloroethane	11.27	83	105228	21.72	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	103033m	21.44	ug/l	
77) Bromobenzene	11.26	156	101977	21.38	ug/l	99
78) n-propylbenzene	11.37	91	407463	22.81	ug/l	99
79) 2-Chlorotoluene	11.43	91	242531	22.06	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	306013	22.40	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.08	75	26657	20.46	ug/l	94
82) 4-Chlorotoluene	11.52	91	280026	22.08	ug/l	100
83) tert-Butylbenzene	11.77	119	300931	22.14	ug/l	99
84) 1,2,4-Trimethylbenzene	11.81	105	316666	22.56	ug/l	99
85) sec-Butylbenzene	11.95	105	378993	23.23	ug/l	99
86) p-Isopropyltoluene	12.07	119	347220	23.20	ug/l	100
87) 1,3-Dichlorobenzene	12.03	146	186088	21.83	ug/l	100
88) 1,4-Dichlorobenzene	12.10	146	189703	21.81	ug/l	99
89) n-Butylbenzene	12.40	91	282110	22.75	ug/l	100
90) Hexachloroethane	12.60	117	51319	22.77	ug/l	98
91) 1,2-Dichlorobenzene	12.40	146	188152	21.69	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	13.01	75	23133	21.73	ug/l	97

Data Path : W:\HPCHEM1\MSVOA X\DATA\VX051118\
Data File : VX001638.D
Acq On : 11 May 2018 14:38
Operator : JC/MD
Sample : VX0511WBS02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 4 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

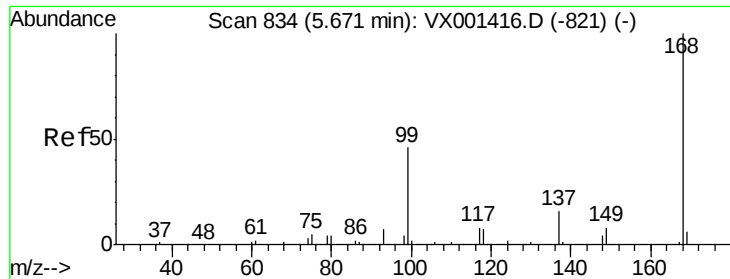
Manual Integrations
APPROVED

apatel
5/14/2018 3:58:15 PM

Quant Time: May 12 05:59:51 2018
Quant Method : W:\HPCHEM1\MSVOA_X\METHOD\82X050518W.M
Quant Title : SW846 8260
QLast Update : Sun May 06 07:59:25 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	141342	22.27	ug/l	99
94) Hexachlorobutadiene	13.79	225	80586	23.20	ug/l	99
95) Naphthalene	13.84	128	384303	21.89	ug/l	100
96) 1,2,3-Trichlorobenzene	14.03	180	145143	22.28	ug/l	100

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



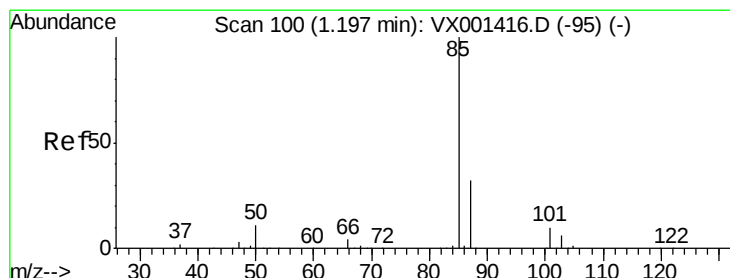
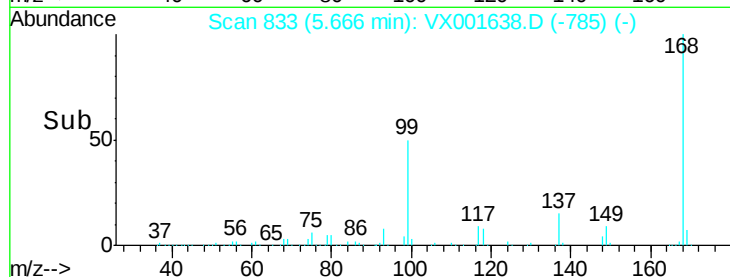
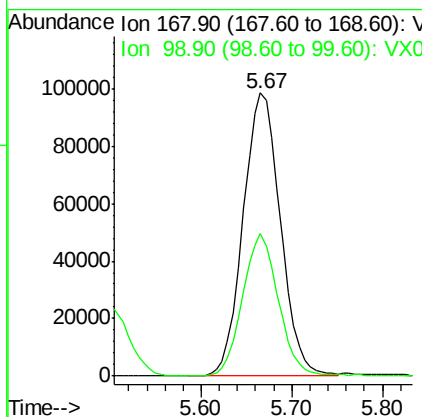
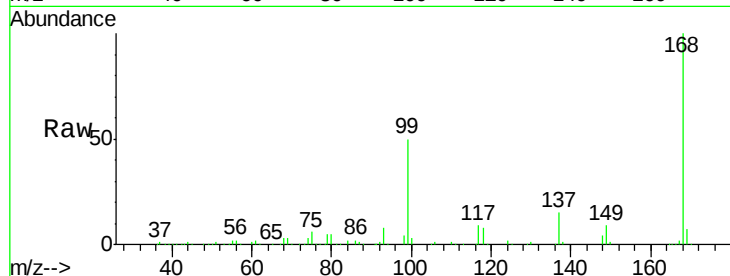
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.67 min Scan# 833
Delta R.T. -0.01 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion	Ratio	Resp	Lower	Upper
168	100	280261		
99	50.1	36.6	54.8	

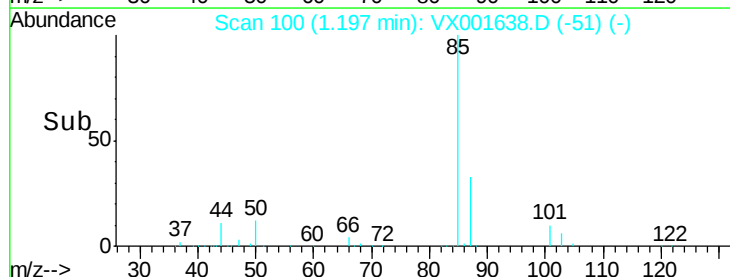
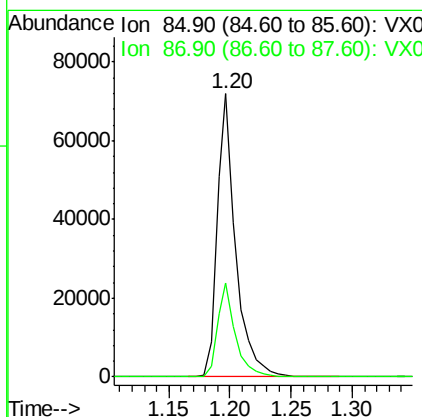
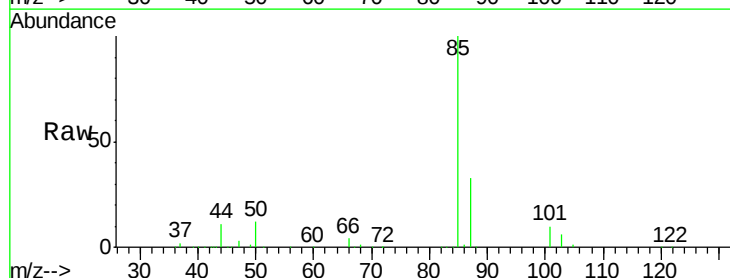
Manual Integrations
APPROVED

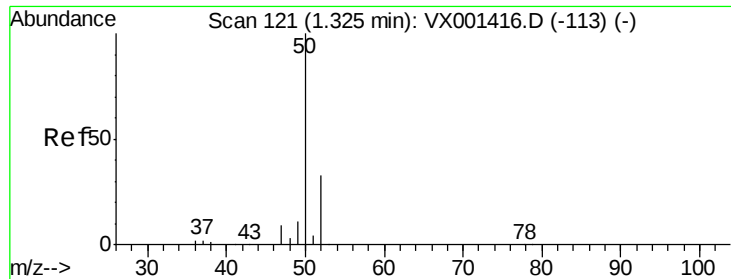
apatel
5/14/2018 3:58:15 PM



#2
Dichlorodifluoromethane
Concen: 20.18 ug/l
RT: 1.20 min Scan# 100
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
85	100	76117		
87	33.3	16.2	48.6	





#3

Chloromethane

Concen: 18.84 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

VX0511WBS02

Tot Ion: 50 Resp: 69223

Ion Ratio Lower Upper

50 100

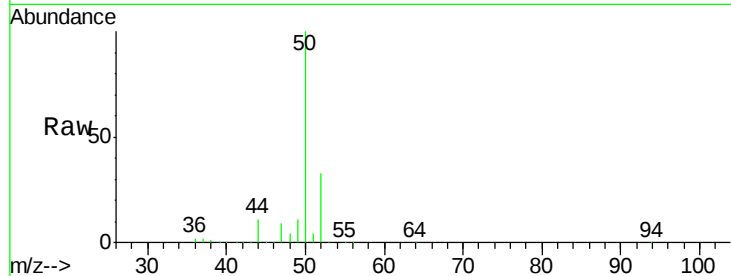
52 33.0 26.2 39.4

Manual Integrations

APPROVED

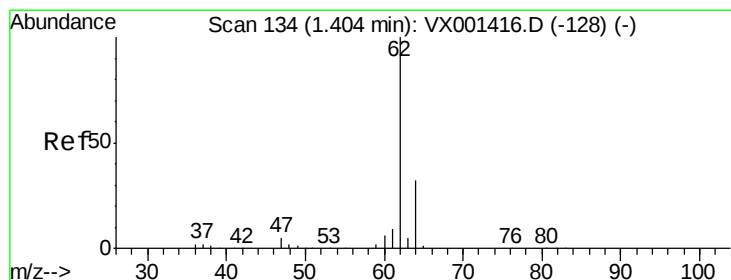
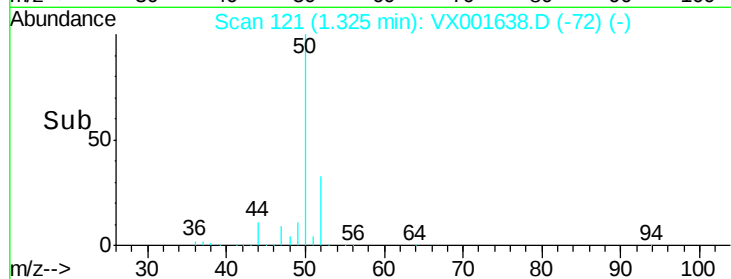
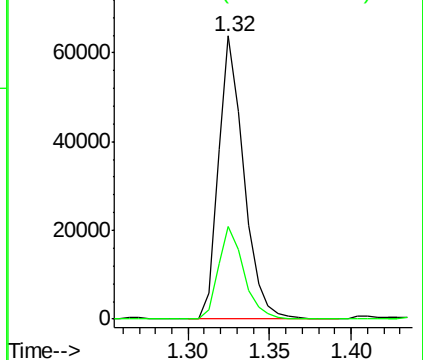
apatel

5/14/2018 3:58:15 PM



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 19.43 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX001638.D

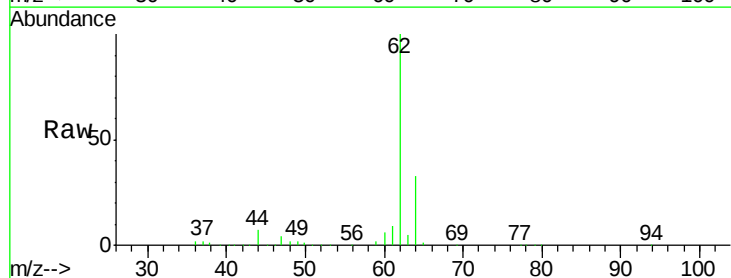
Acq: 11 May 2018 14:38

Tgt Ion: 62 Resp: 74521

Ion Ratio Lower Upper

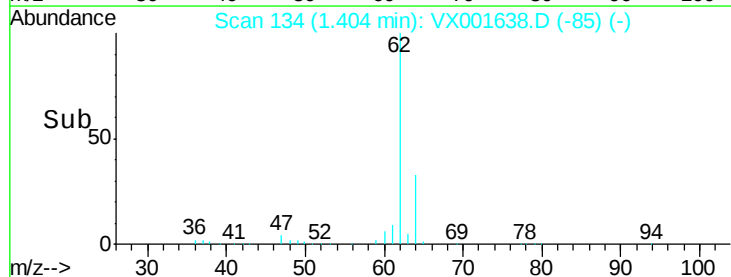
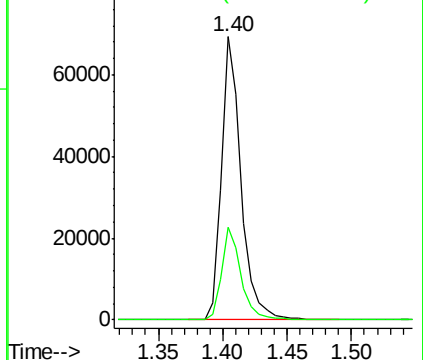
62 100

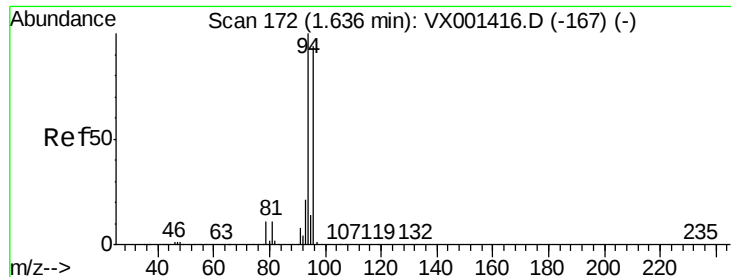
64 32.9 25.8 38.6



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 21.50 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

VX0511WBS02

Tot Ion: 94 Resp: 41176

Ion Ratio Lower Upper

94 100

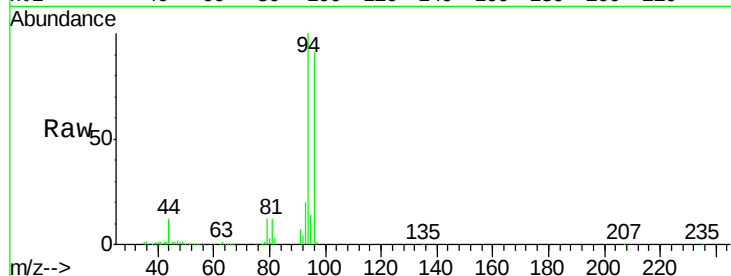
96 91.4 75.0 112.6

Manual Integrations

APPROVED

apatel

5/14/2018 3:58:15 PM



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

1.64

40000

30000

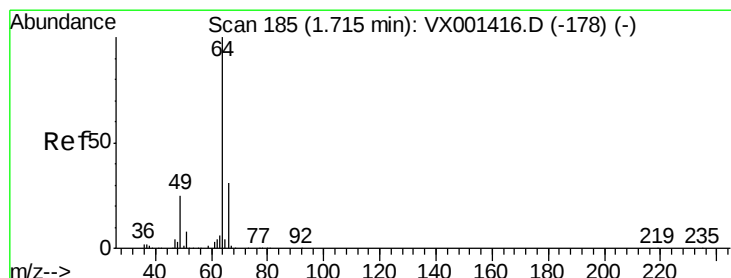
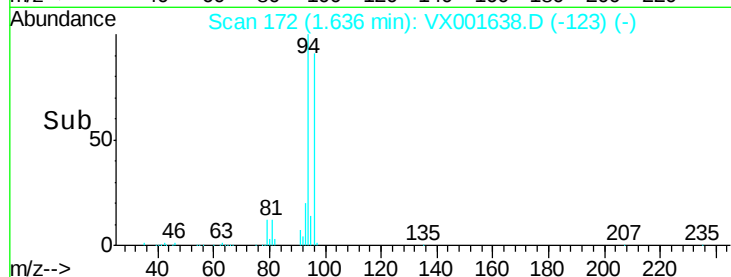
20000

10000

0

1.60 1.70 1.80

Time-->



#6

Chloroethane

Concen: 20.58 ug/l

RT: 1.72 min Scan# 186

Delta R.T. 0.01 min

Lab File: VX001638.D

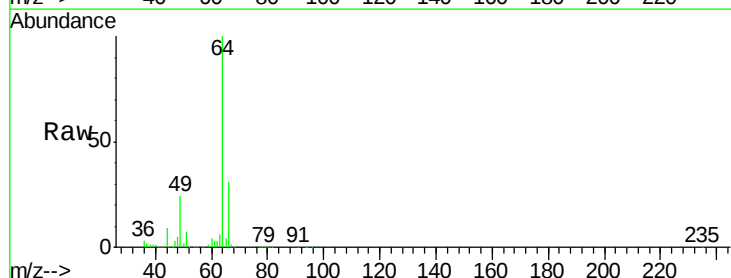
Acq: 11 May 2018 14:38

Tgt Ion: 64 Resp: 52158

Ion Ratio Lower Upper

64 100

66 30.9 25.1 37.7



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

1.72

40000

30000

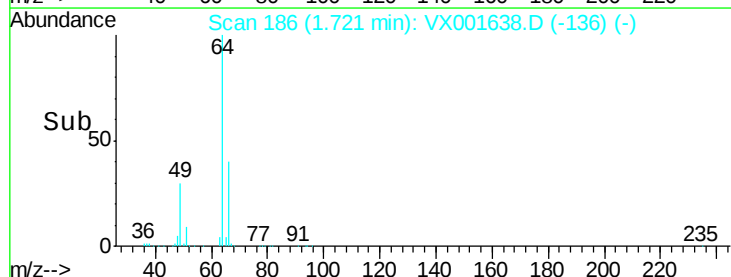
20000

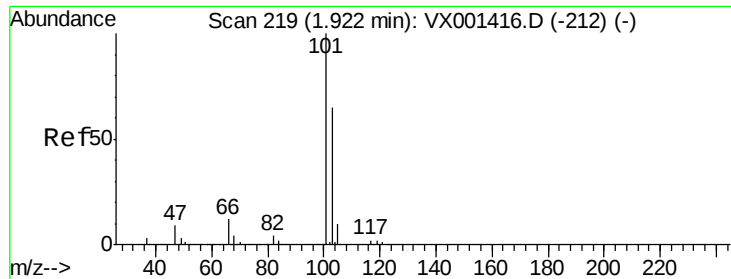
10000

0

1.60 1.70 1.80

Time-->





#7

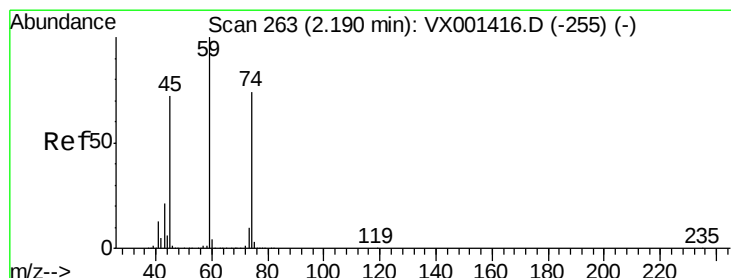
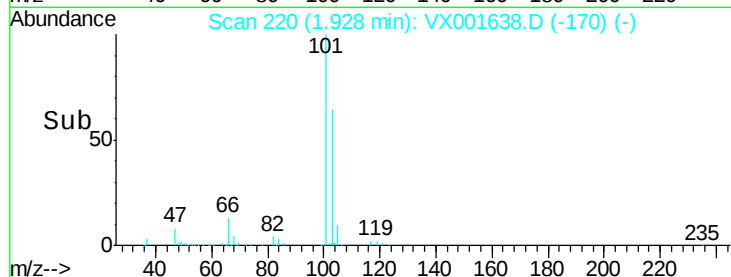
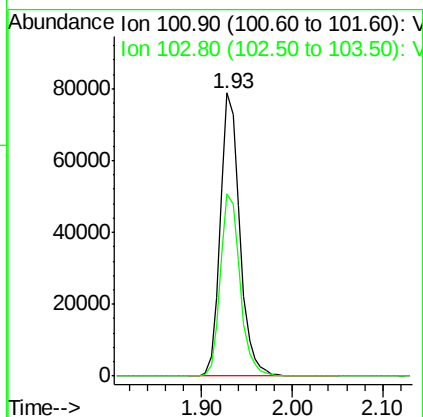
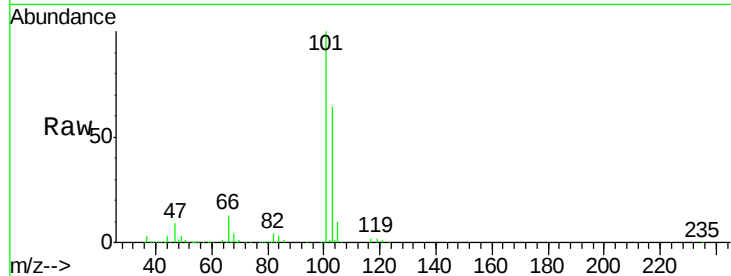
Trichlorofluoromethane
 Concen: 20.47 ug/l
 RT: 1.93 min Scan# 220
 Delta R.T. 0.01 min
 Lab File: VX001638.D
 Acq: 11 May 2018 14:38

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0511WBS02

Tot Ion	Ratio	Resp	Lower	Upper
101	100	118151		
103	64.3	52.0	78.0	

Manual Integrations
 APPROVED

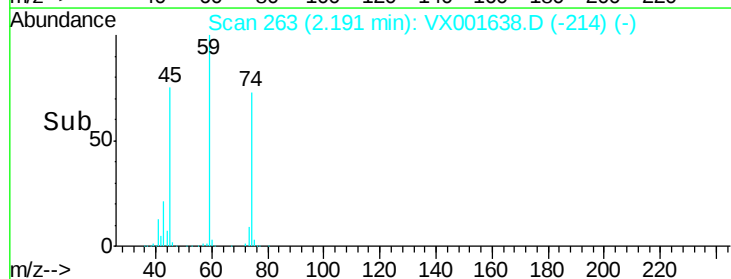
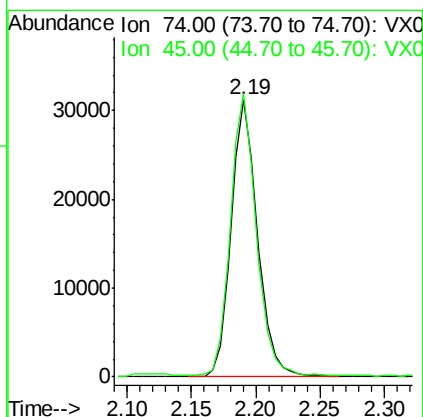
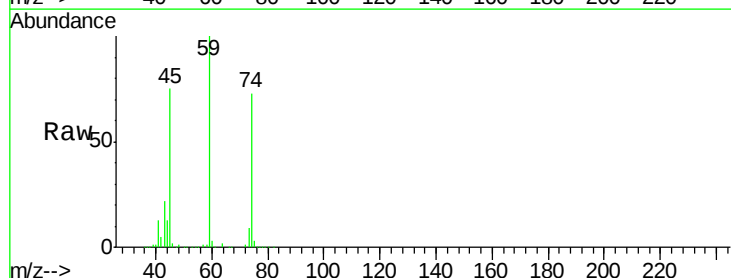
apatel
 5/14/2018 3:58:15 PM

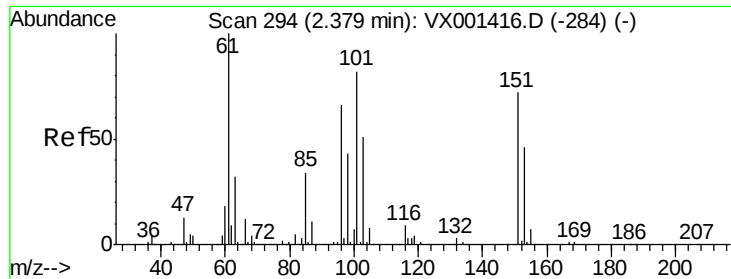


#8

Diethyl Ether
 Concen: 19.75 ug/l
 RT: 2.19 min Scan# 263
 Delta R.T. 0.00 min
 Lab File: VX001638.D
 Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
74	100	44680		
45	100.9	47.9	143.6	





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.22 ug/l

RT: 2.39 min Scan# 295

Delta R.T. 0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

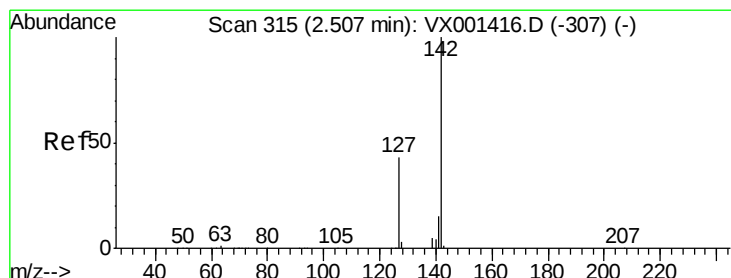
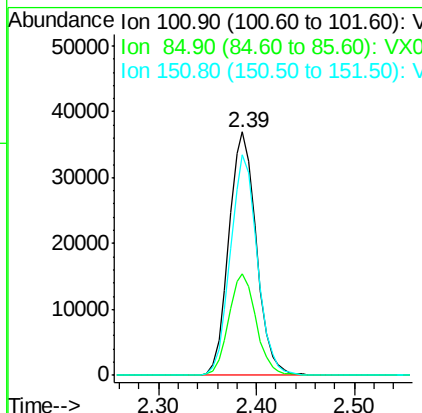
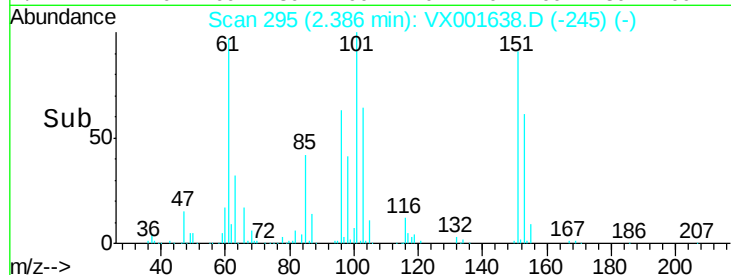
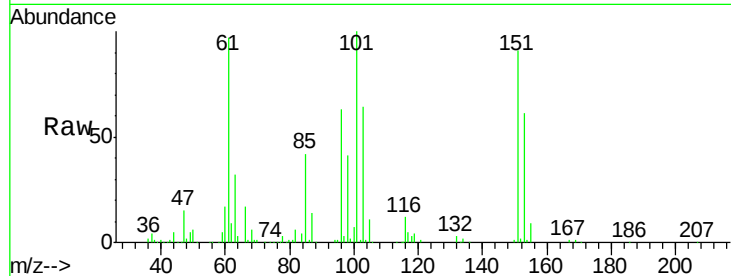
ClientSampleId :

VX0511WBS02

Tot Ion	Ratio	Lower	Upper
101	100		
85	41.7	33.7	50.5
151	89.2	72.3	108.5

Manual Integrations
APPROVED

apatel
5/14/2018 3:58:15 PM



#10

Methyl Iodide

Concen: 12.16 ug/l

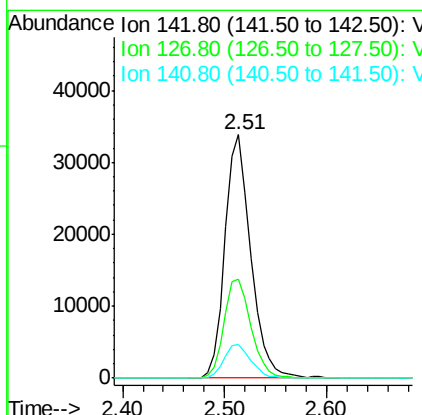
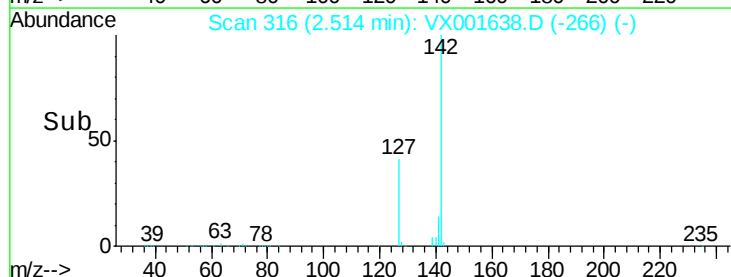
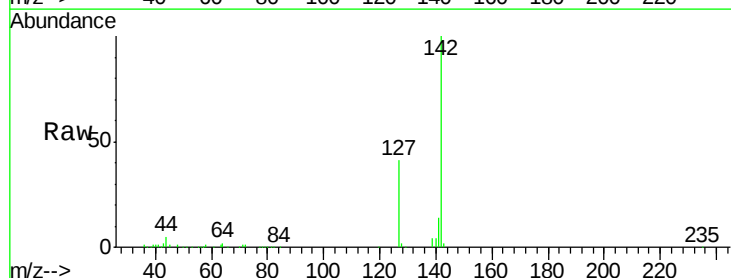
RT: 2.51 min Scan# 316

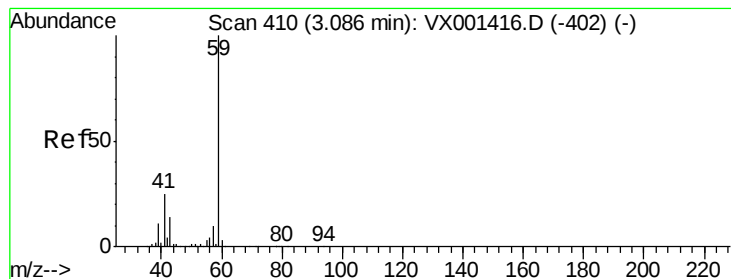
Delta R.T. 0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Lower	Upper
142	100		
127	42.6	33.6	50.4
141	14.3	11.4	17.2





#11

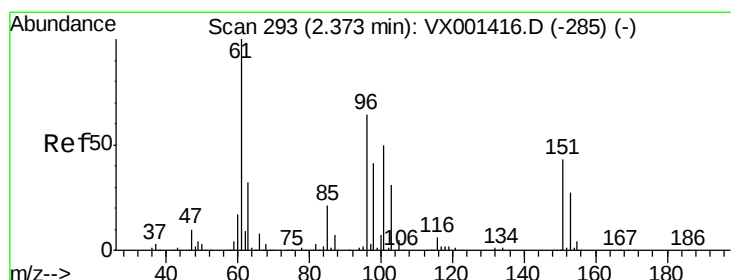
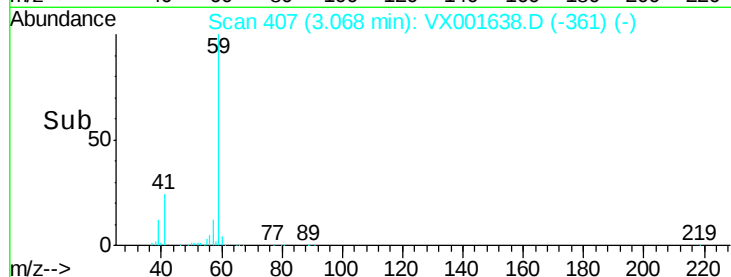
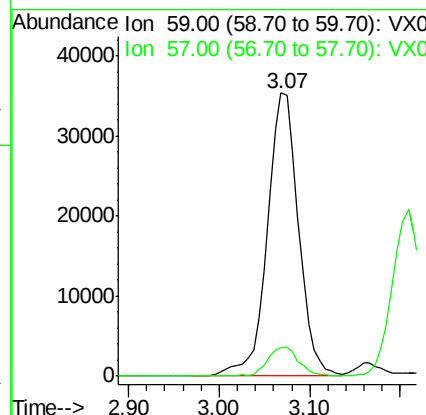
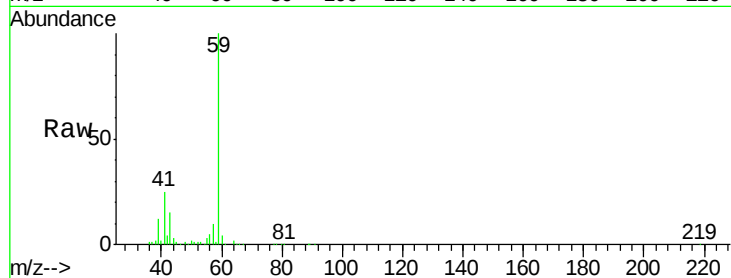
Tert butyl alcohol
Concen: 99.44 ug/l
RT: 3.07 min Scan# 407
Delta R.T. -0.02 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion	59	Resp	84453
Ion Ratio	100	Lower	Upper
57	10.5	8.2	12.4

Manual Integrations
APPROVED

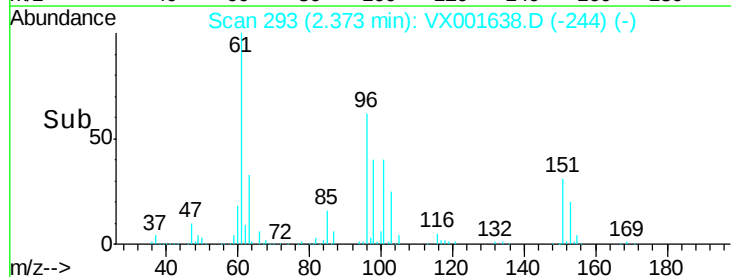
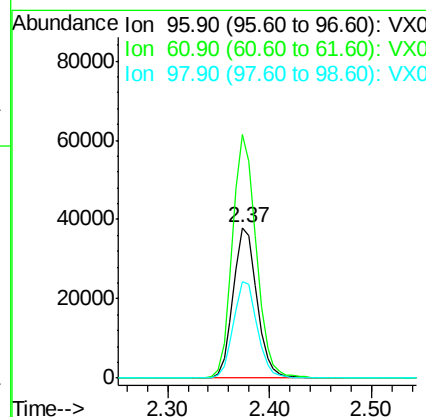
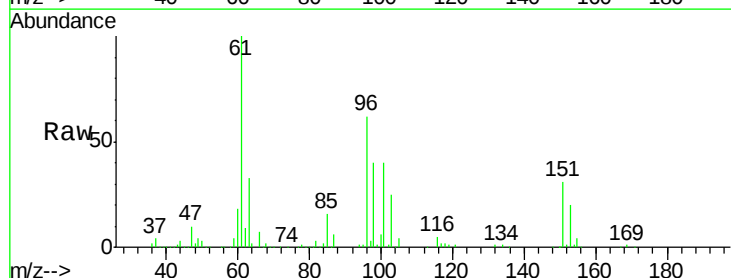
apatel
5/14/2018 3:58:15 PM

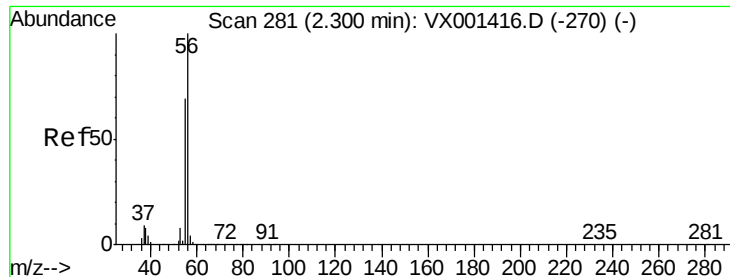


#12

1,1-Dichloroethene
Concen: 19.76 ug/l
RT: 2.37 min Scan# 293
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	96	Resp	61270
Ion Ratio	100	Lower	Upper
61	161.9	125.7	188.5
98	64.2	52.0	78.0





#13

Acrolein

Concen: 53.24 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

VX0511WBS02

Tot Ion: 56 Resp: 10452

Ion Ratio Lower Upper

56 100

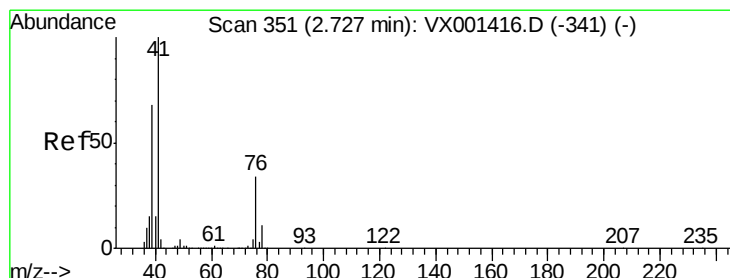
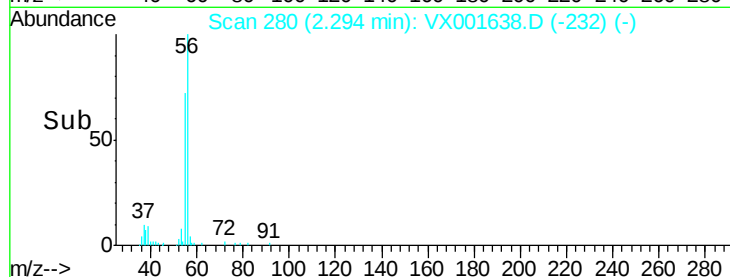
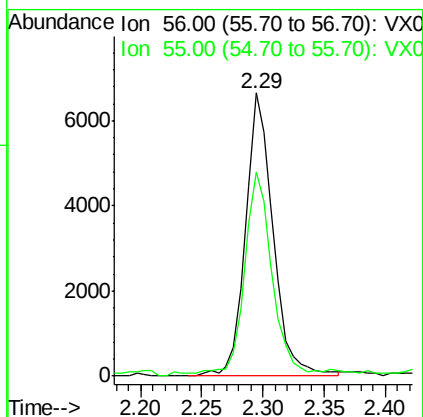
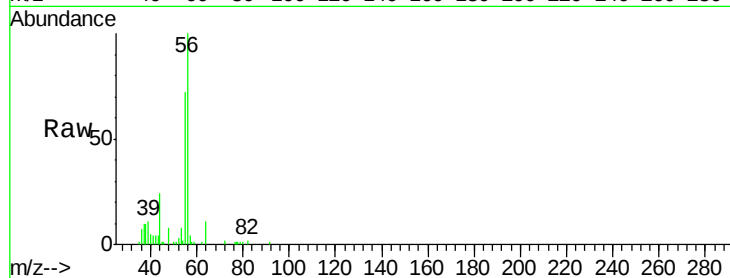
55 73.7 54.5 81.7

Manual Integrations

APPROVED

apatel

5/14/2018 3:58:15 PM



#14

Allyl chloride

Concen: 20.24 ug/l

RT: 2.73 min Scan# 351

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

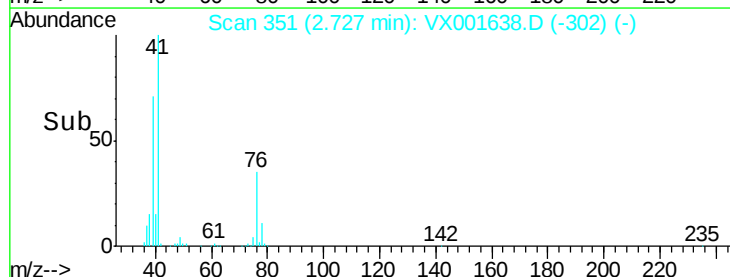
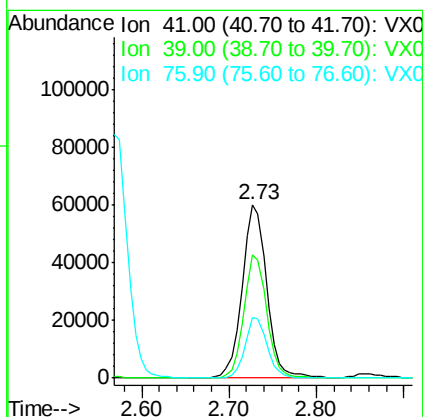
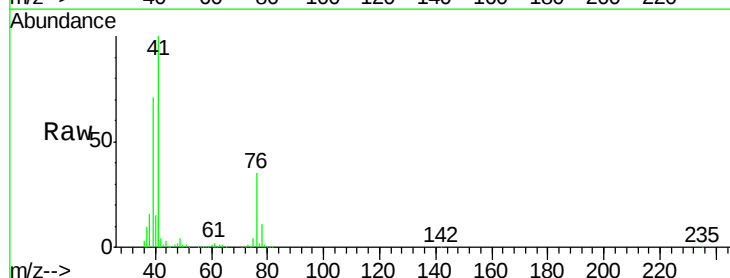
Tgt Ion: 41 Resp: 117049

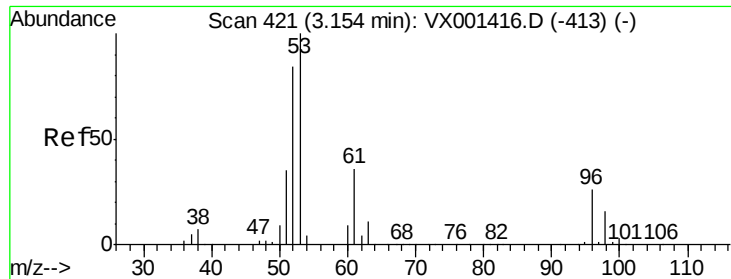
Ion Ratio Lower Upper

41 100

39 66.1 52.4 78.6

76 31.3 25.8 38.6





#15

Acrylonitrile

Concen: 97.52 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

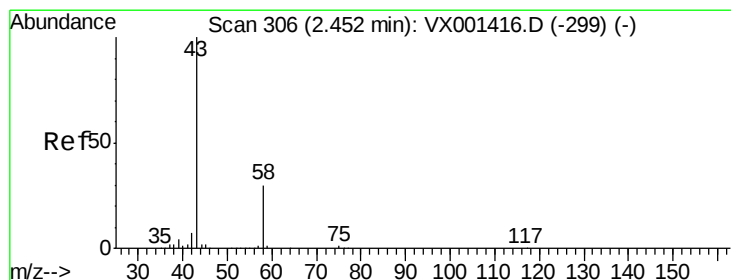
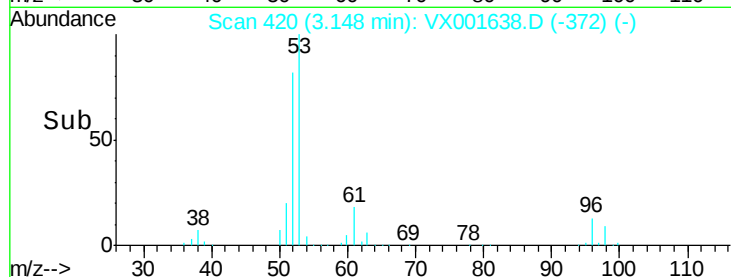
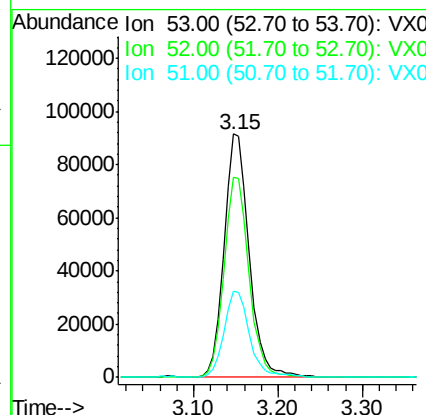
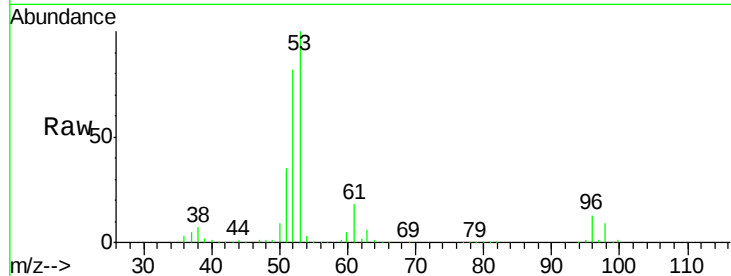
ClientSampleId :

VX0511WBS02

Tot Ion:	53	Resp:	187154
Ion Ratio	Lower	Upper	
53	100		
52	82.0	66.2	99.2
51	36.0	28.6	43.0

Manual Integrations
APPROVED

apatel
5/14/2018 3:58:15 PM



#16

Acetone

Concen: 105.20 ug/l

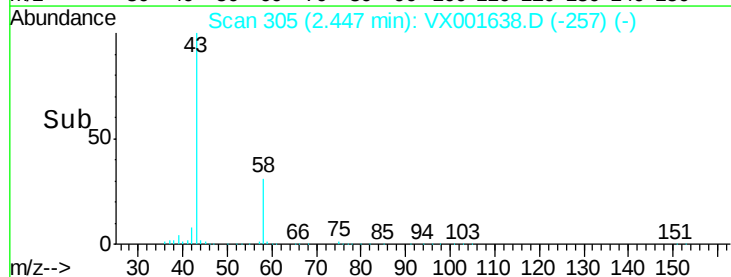
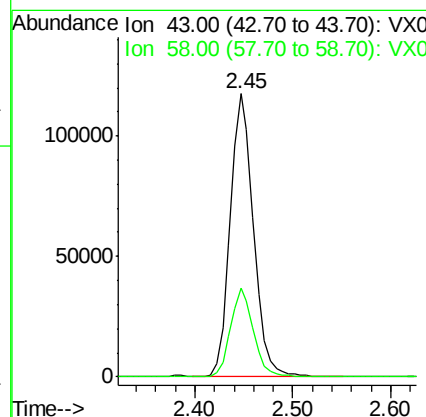
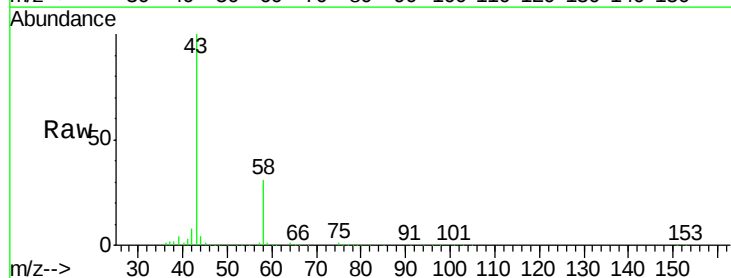
RT: 2.45 min Scan# 305

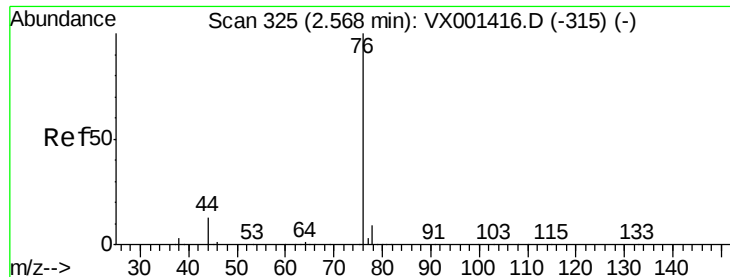
Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Tgt Ion:	43	Resp:	192427
Ion Ratio	Lower	Upper	
43	100		
58	31.4	23.8	35.8





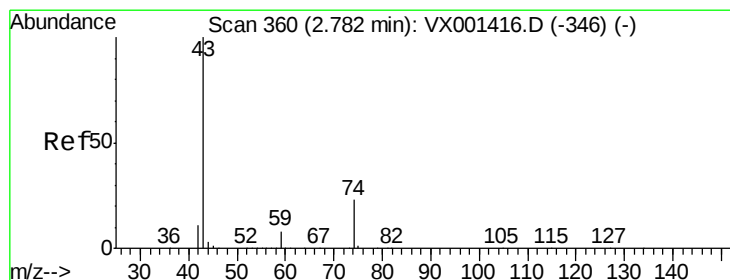
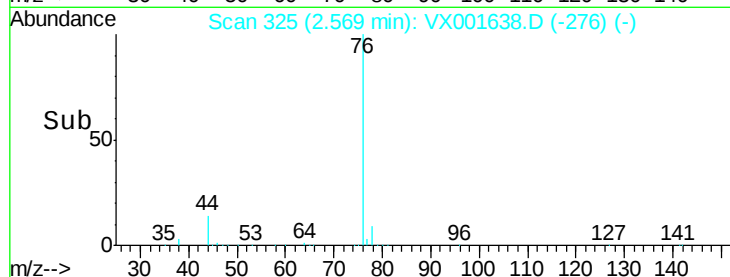
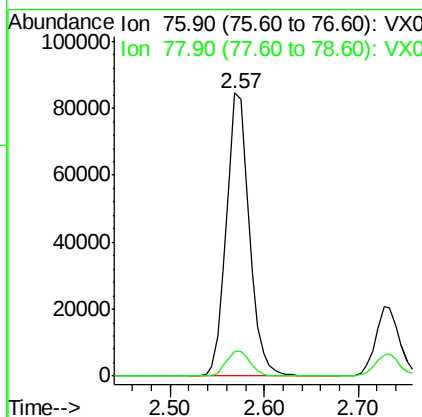
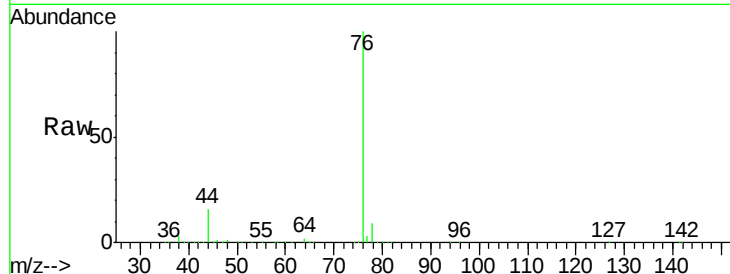
#17
Carbon Disulfide
Concen: 18.20 ug/l
RT: 2.57 min Scan# 325
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.7	7.4	11.2

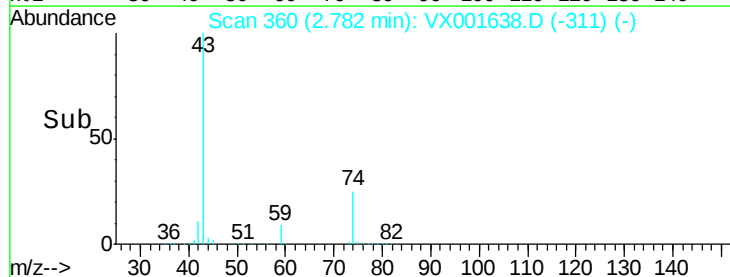
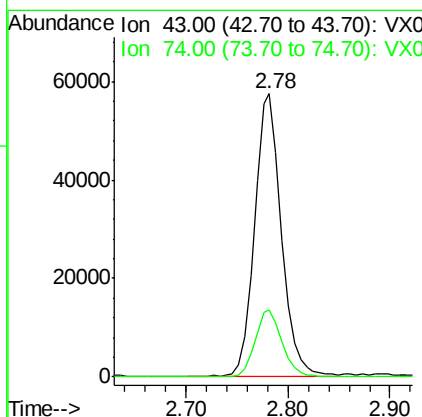
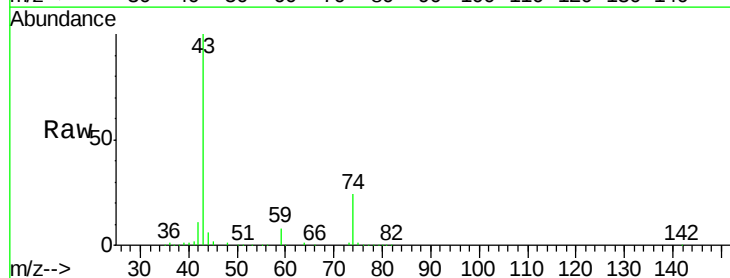
Manual Integrations
APPROVED

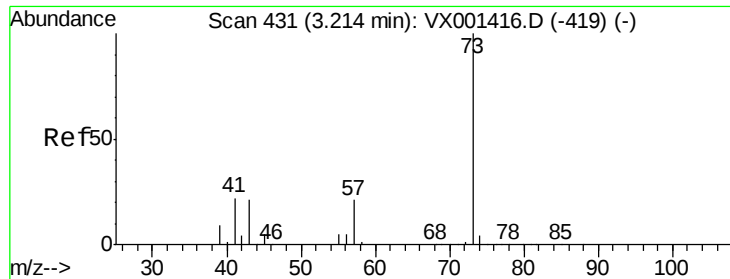
apatel
5/14/2018 3:58:15 PM



#18
Methyl Acetate
Concen: 21.80 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.1	18.6	27.8





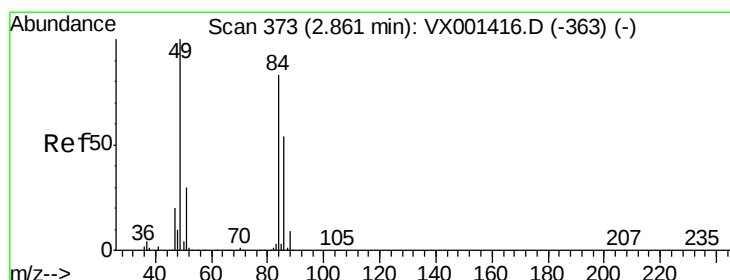
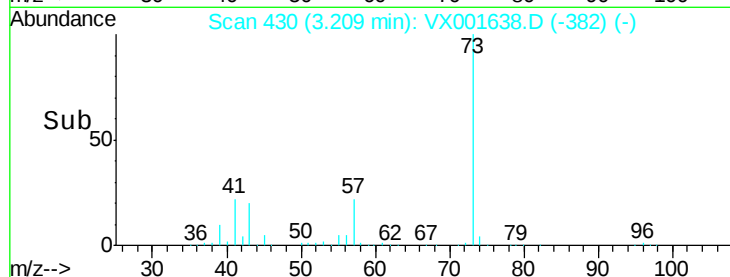
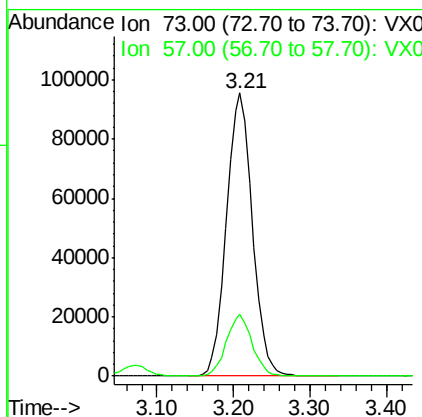
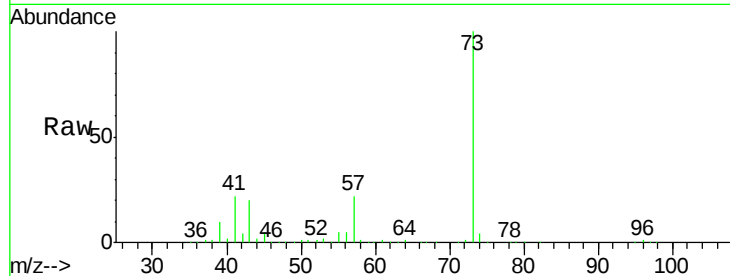
#19
Methyl tert-butyl Ether
Concen: 20.69 ug/l
RT: 3.21 min Scan# 430
Delta R.T. -0.01 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleID :
VX0511WBS02

Tot Ion	Ratio	Lower	Upper
73	100		
57	21.8	17.0	25.6

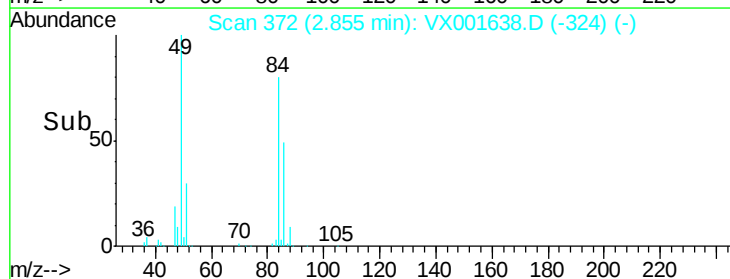
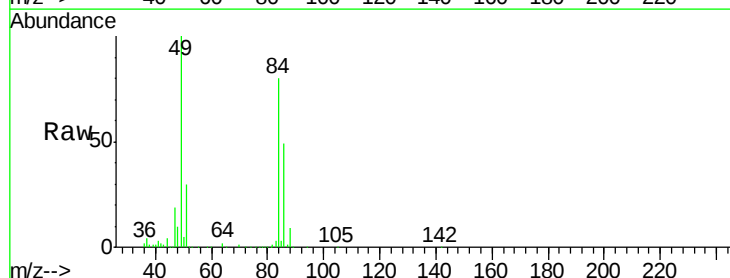
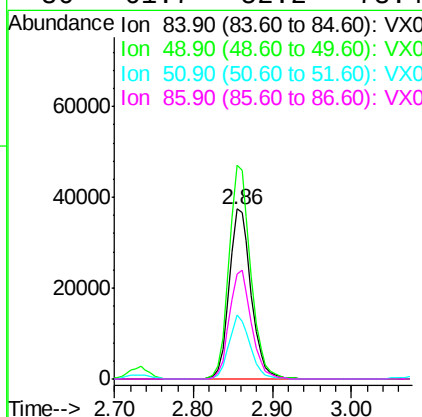
Manual Integrations
APPROVED

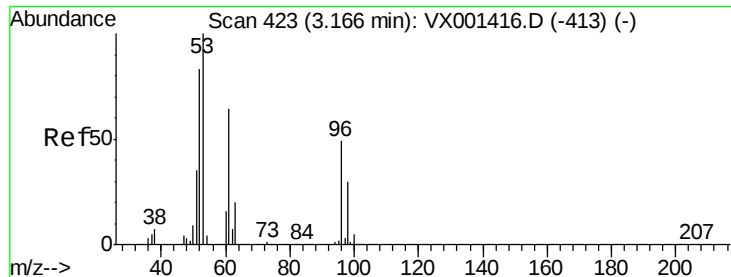
apatel
5/14/2018 3:58:15 PM



#20
Methylene Chloride
Concen: 19.94 ug/l
RT: 2.86 min Scan# 372
Delta R.T. -0.01 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Lower	Upper
84	100		
49	125.7	96.6	144.8
51	37.5	29.0	43.4
86	61.7	52.2	78.4





#21

trans-1,2-Dichloroethene

Concen: 19.30 ug/l

RT: 3.17 min Scan# 423

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

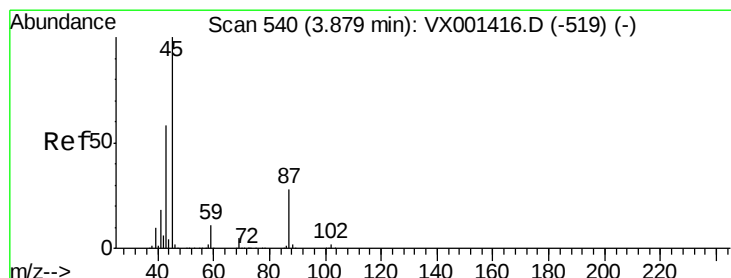
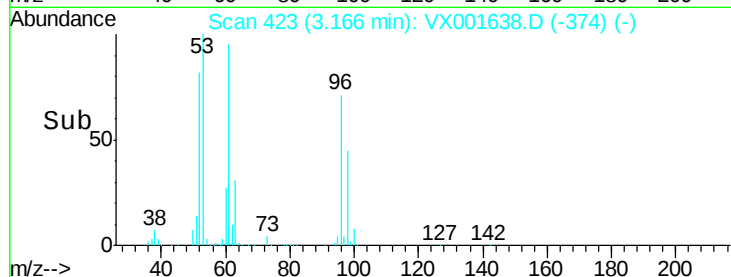
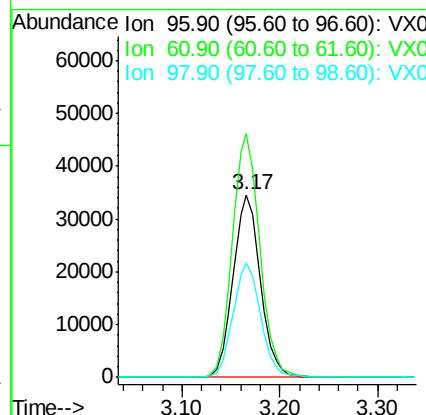
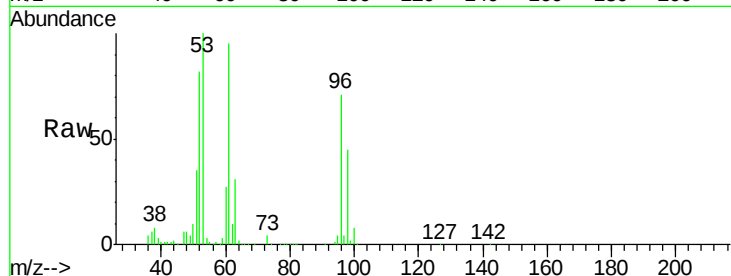
ClientSampleId :

VX0511WBS02

Tot Ion:	96	Resp:	66793
Ion	Ratio	Lower	Upper
96	100		
61	133.5	105.0	157.4
98	63.0	49.9	74.9

Manual Integrations
APPROVED

apatel
5/14/2018 3:58:15 PM



#22

Diisopropyl ether

Concen: 21.38 ug/l

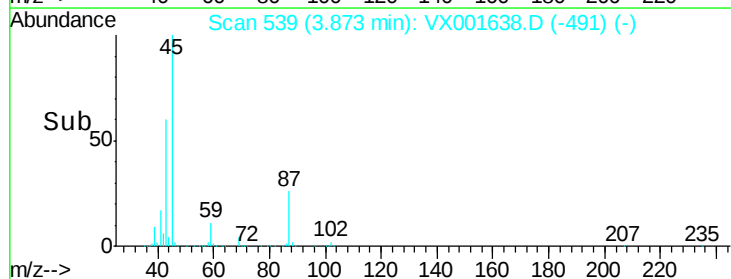
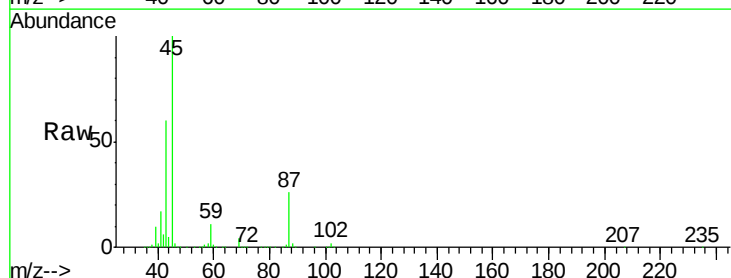
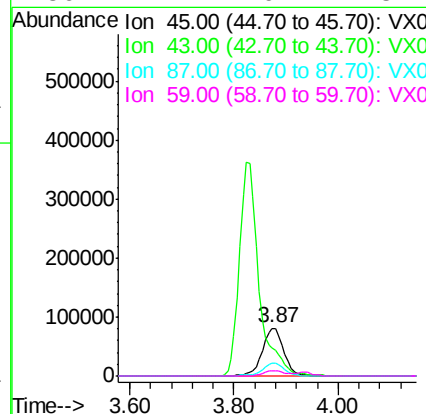
RT: 3.87 min Scan# 539

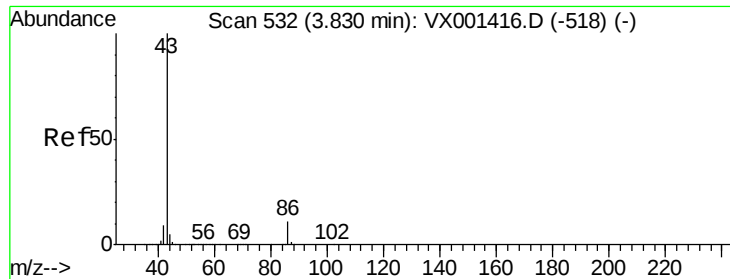
Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Tgt Ion:	45	Resp:	231030
Ion	Ratio	Lower	Upper
45	100		
43	59.5	46.5	69.7
87	26.3	22.6	34.0
59	11.1	9.1	13.7





#23

Vinyl Acetate

Concen: 105.31 ug/l

RT: 3.82 min Scan# 531

Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

VX0511WBS02

Tot Ion: 43 Resp: 948140

Ion Ratio Lower Upper

43 100

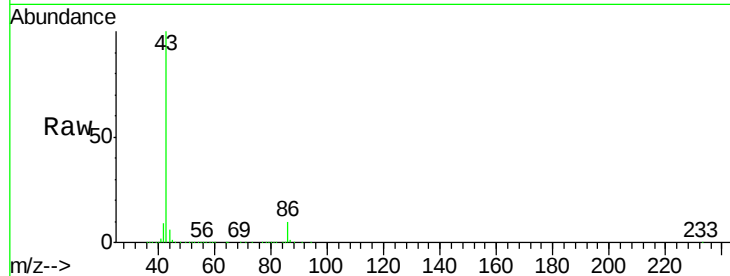
86 10.4 8.6 13.0

Manual Integrations

APPROVED

apatel

5/14/2018 3:58:15 PM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

3.82

400000

300000

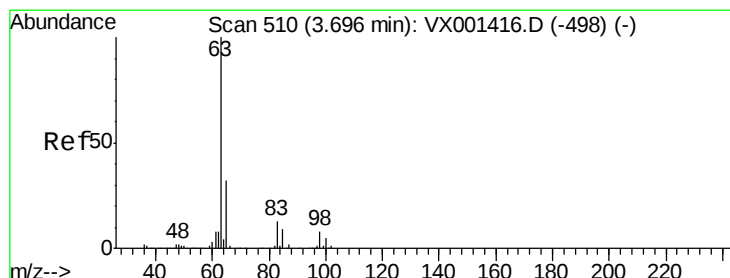
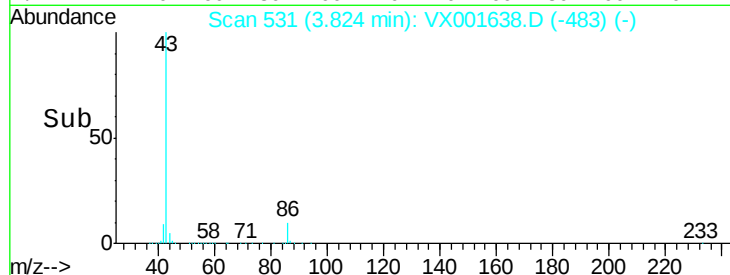
200000

100000

0

Time-->

3.70 3.80 3.90 4.00



#24

1,1-Dichloroethane

Concen: 20.76 ug/l

RT: 3.70 min Scan# 510

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

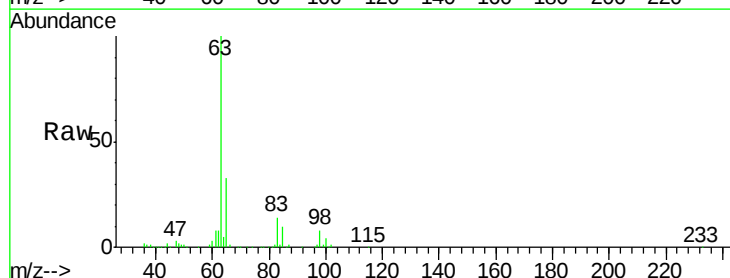
Tgt Ion: 63 Resp: 125305

Ion Ratio Lower Upper

63 100

98 7.9 3.8 11.4

100 4.4 2.4 7.1



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 97.90 (97.60 to 98.60): VX0

Ion 99.90 (99.60 to 100.60): VX0

60000

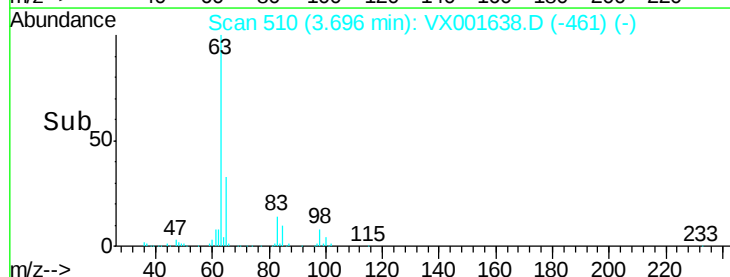
40000

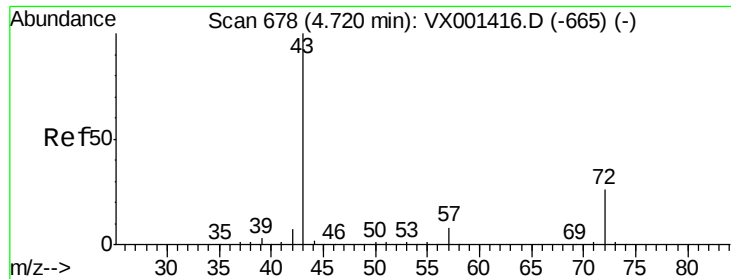
20000

0

Time-->

3.60 3.70 3.80





#25

2-Butanone

Concen: 102.70 ug/l

RT: 4.71 min Scan# 676

Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampled :

VX0511WBS02

Tot Ion: 43 Resp: 271541

Ion Ratio Lower Upper

43 100

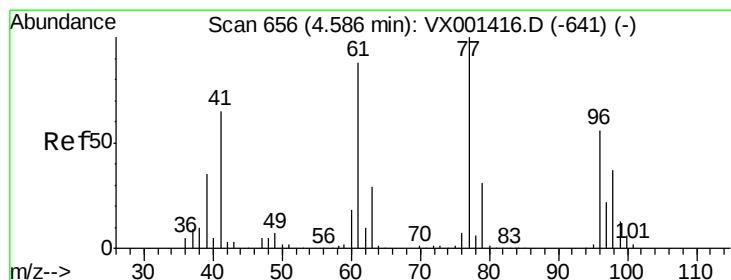
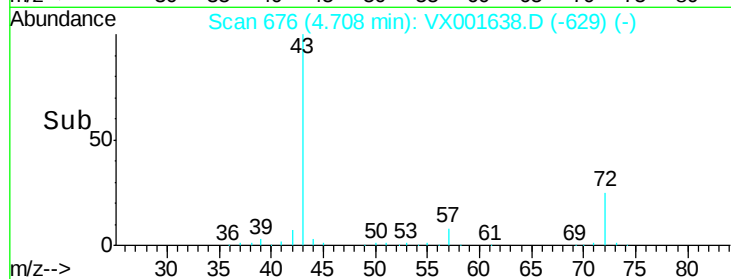
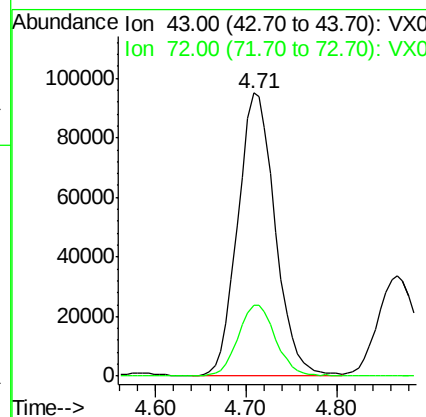
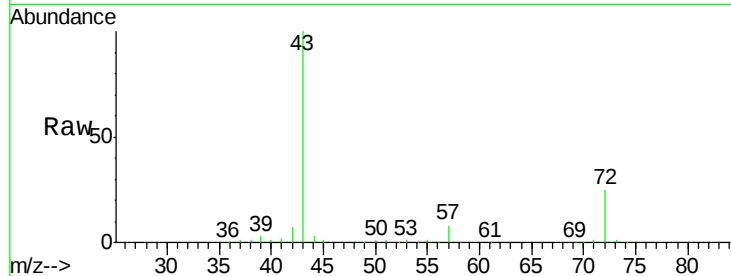
72 25.2 20.7 31.1

Manual Integrations

APPROVED

apatel

5/14/2018 3:58:15 PM



#26

2,2-Dichloropropane

Concen: 22.55 ug/l

RT: 4.59 min Scan# 656

Delta R.T. 0.00 min

Lab File: VX001638.D

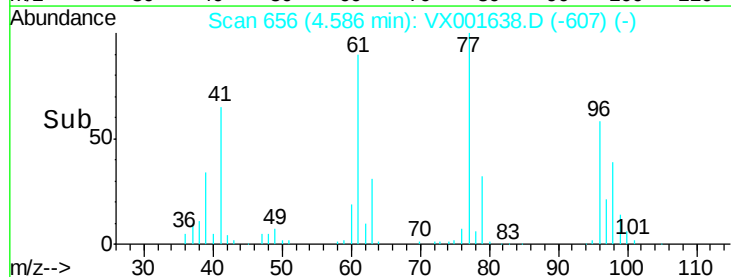
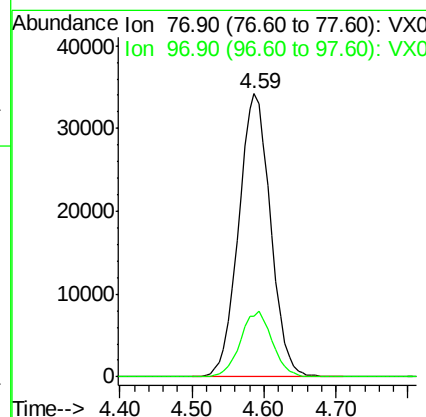
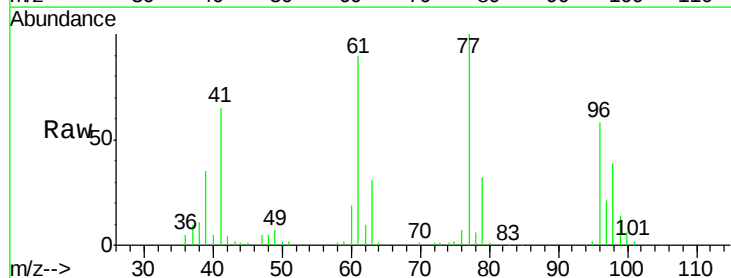
Acq: 11 May 2018 14:38

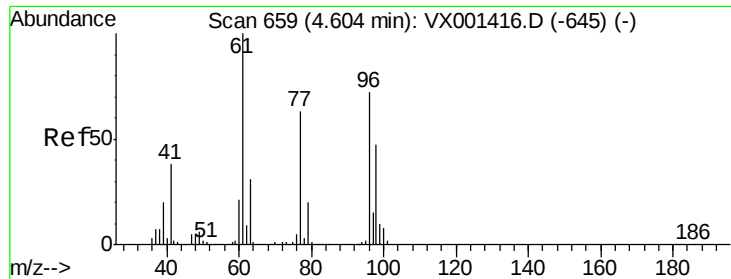
Tgt Ion: 77 Resp: 105111

Ion Ratio Lower Upper

77 100

97 23.0 11.2 33.6





#27

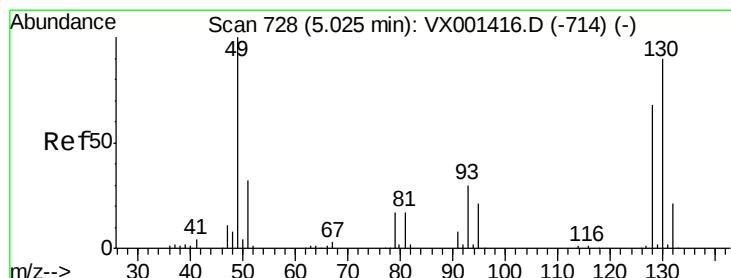
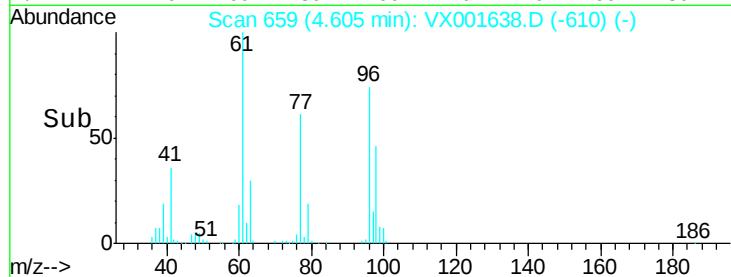
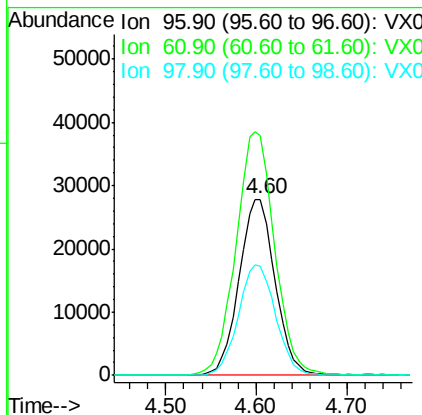
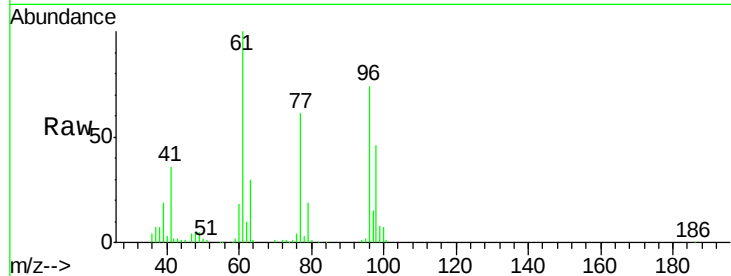
cis-1,2-Dichloroethene
Concen: 20.77 ug/l
RT: 4.60 min Scan# 659
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	148.6	0.0	301.6	
98	64.8	0.0	131.6	

Manual Integrations
APPROVED

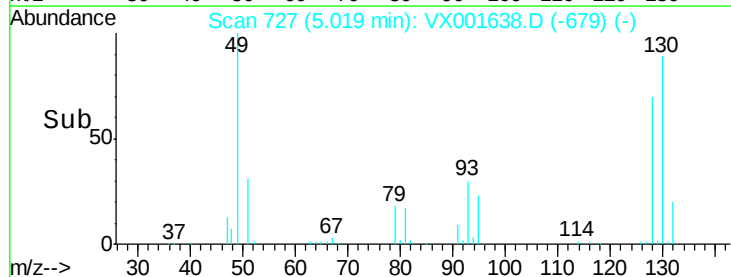
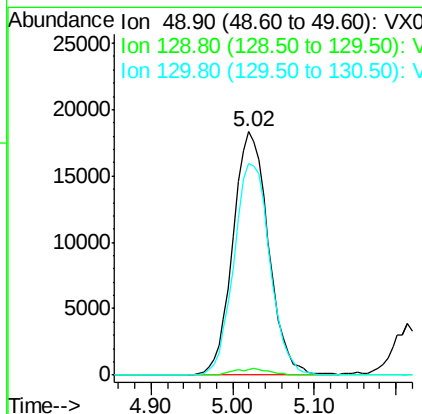
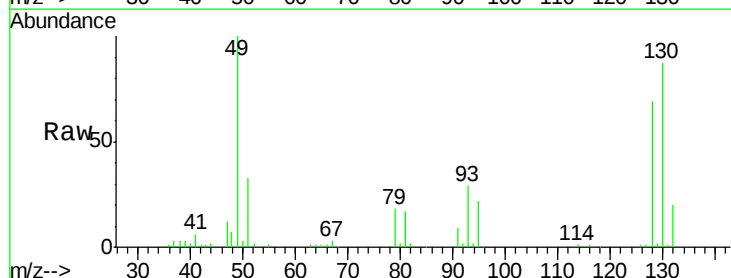
apatel
5/14/2018 3:58:15 PM

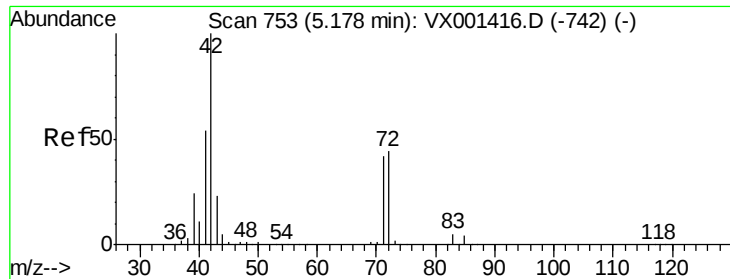


#28

Bromochloromethane
Concen: 21.16 ug/l
RT: 5.02 min Scan# 727
Delta R.T. -0.01 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	2.5	0.0	4.8	
130	88.1	71.9	107.9	





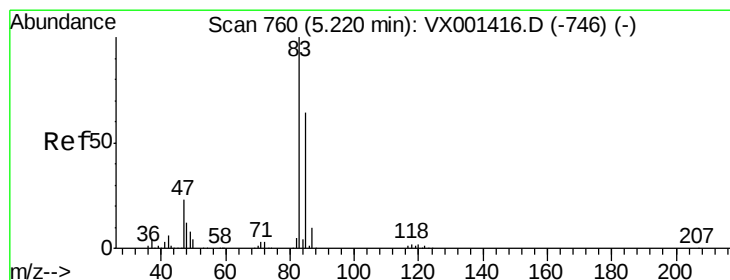
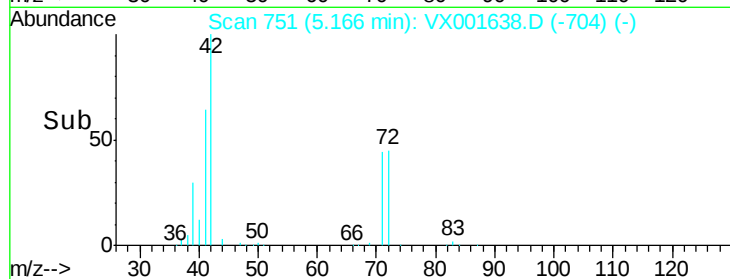
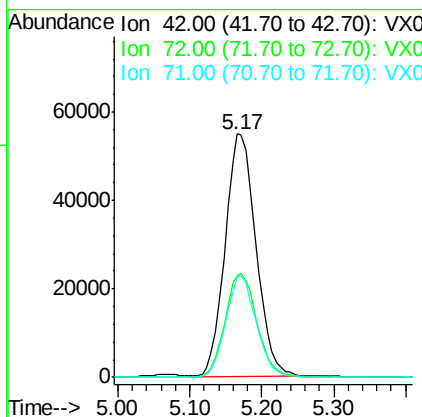
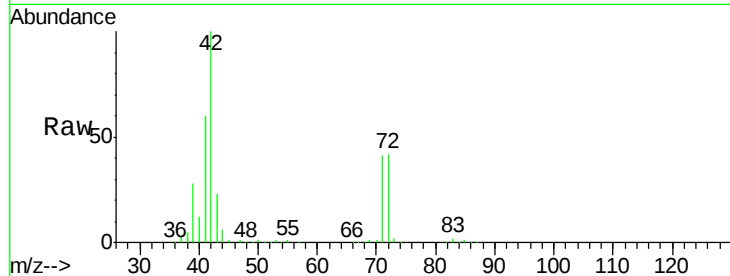
#29
Tetrahydrofuran
Concen: 96.84 ug/l
RT: 5.17 min Scan# 751
Delta R.T. -0.01 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.3	35.4	53.2
71	41.5	33.0	49.4

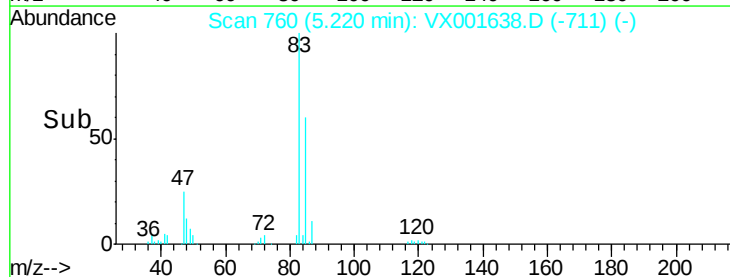
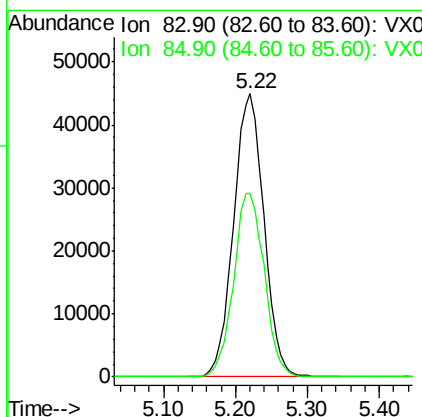
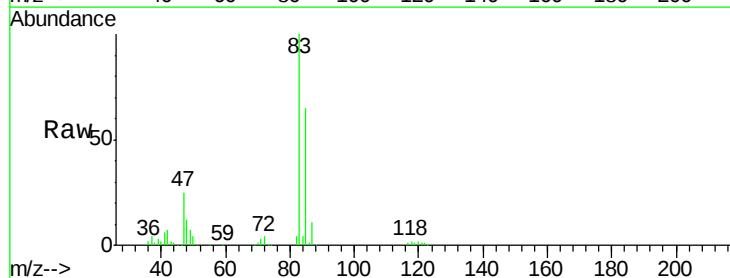
Manual Integrations
APPROVED

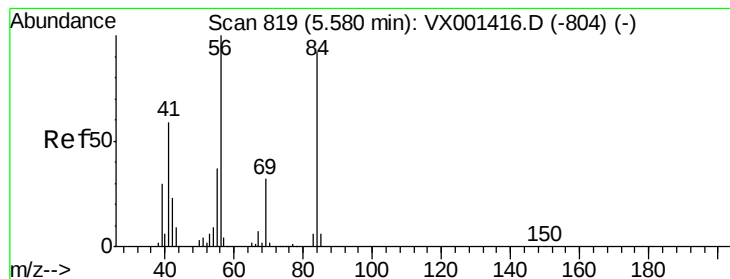
apatel
5/14/2018 3:58:15 PM



#30
Chloroform
Concen: 21.16 ug/l
RT: 5.22 min Scan# 760
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	51.0	76.4





#31

Cyclohexane

Concen: 20.79 ug/l

RT: 5.58 min Scan# 819

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

VX0511WBS02

Tot Ion: 56 Resp: 107742

Ion Ratio Lower Upper

56 100

69 30.8 25.4 38.0

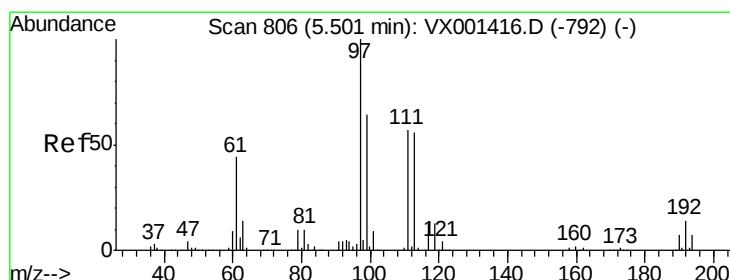
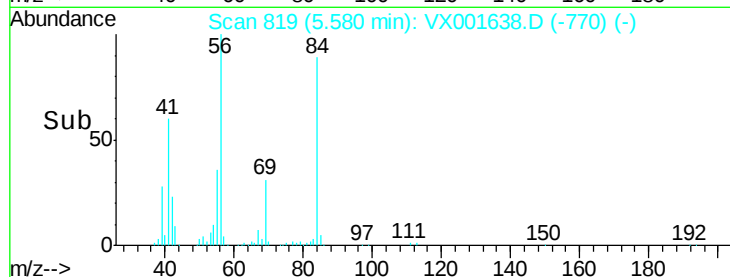
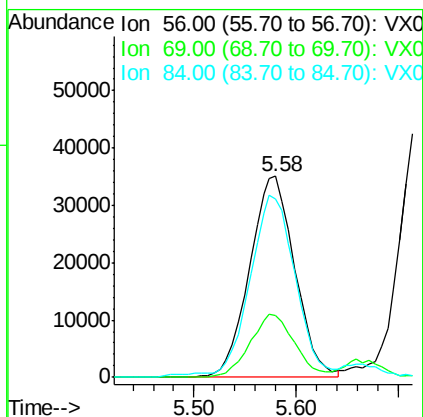
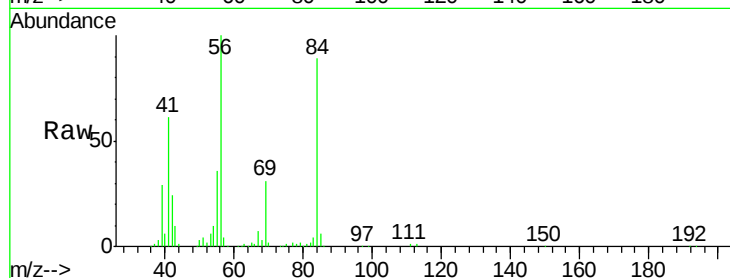
84 87.1 73.8 110.8

Manual Integrations

APPROVED

apatel

5/14/2018 3:58:15 PM



#32

1,1,1-Trichloroethane

Concen: 21.55 ug/l

RT: 5.49 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

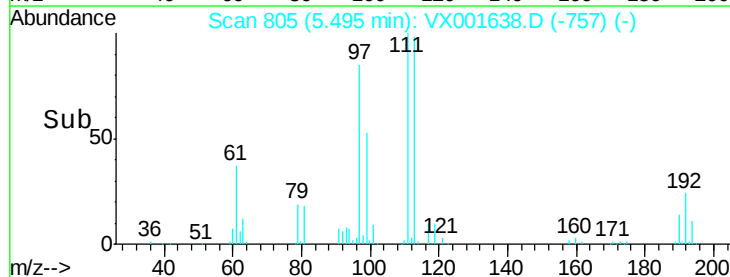
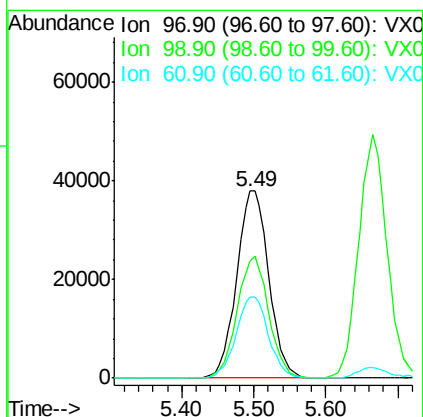
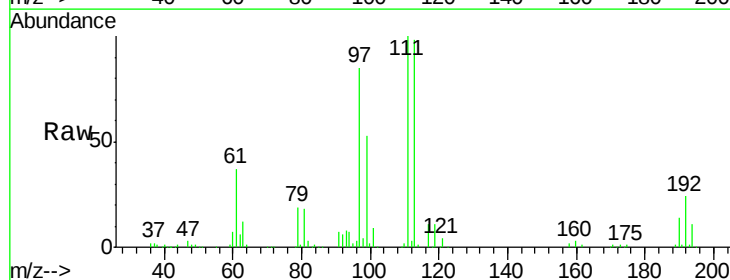
Tgt Ion: 97 Resp: 117072

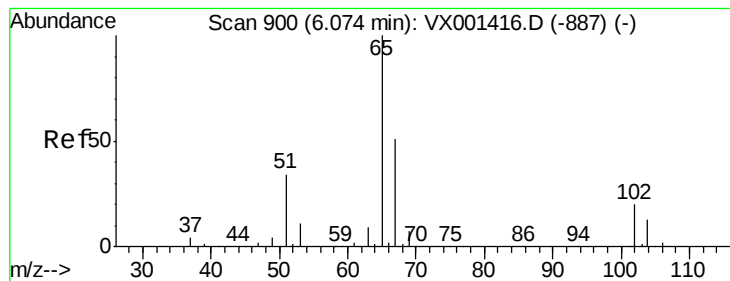
Ion Ratio Lower Upper

97 100

99 64.2 51.3 76.9

61 44.0 34.8 52.2





#33

1,2-Dichloroethane-d4

Concen: 45.24 ug/l

RT: 6.07 min Scan# 900

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Tot Ion: 65 Resp: 182247

Ion Ratio Lower Upper

65 100

67 50.3 0.0 101.8

Instrument :

MSVOA_X

ClientSampleId :

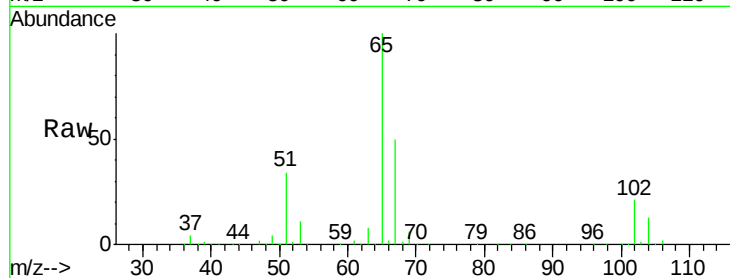
VX0511WBS02

Manual Integrations

APPROVED

apatel

5/14/2018 3:58:15 PM



Abundance Ion 64.90 (64.60 to 65.60): VX0

Ion 66.90 (66.60 to 67.60): VX0

6.07

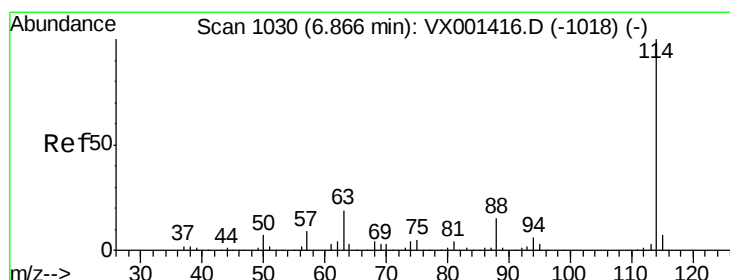
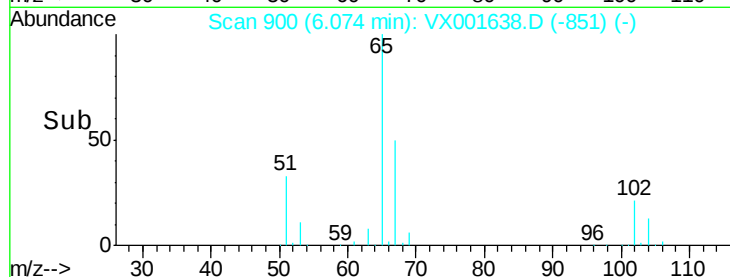
60000

40000

20000

0

Time-->



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.87 min Scan# 1030

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

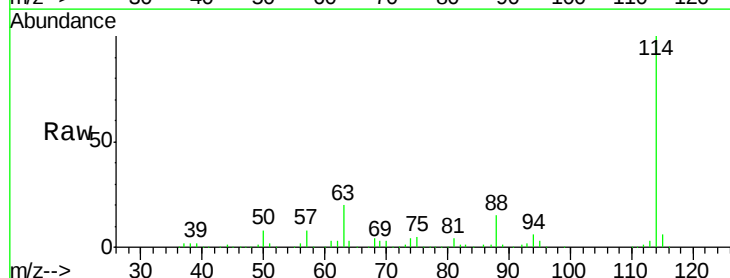
Tgt Ion: 114 Resp: 355144

Ion Ratio Lower Upper

114 100

63 19.9 0.0 38.6

88 14.7 0.0 30.8



Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VX0

Ion 87.90 (87.60 to 88.60): VX0

200000

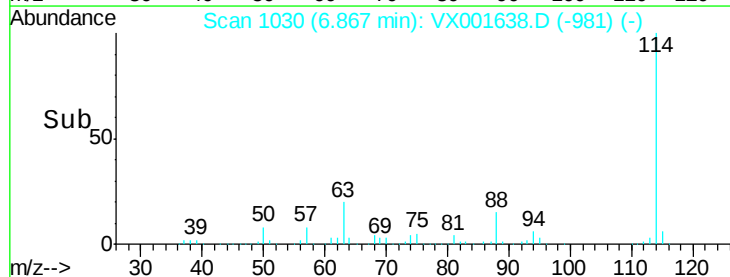
150000

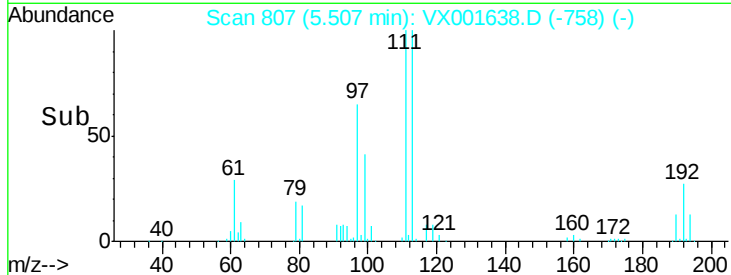
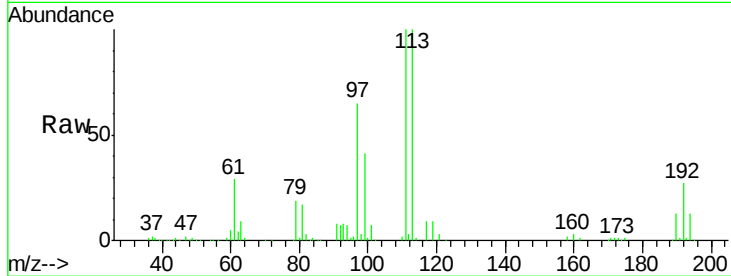
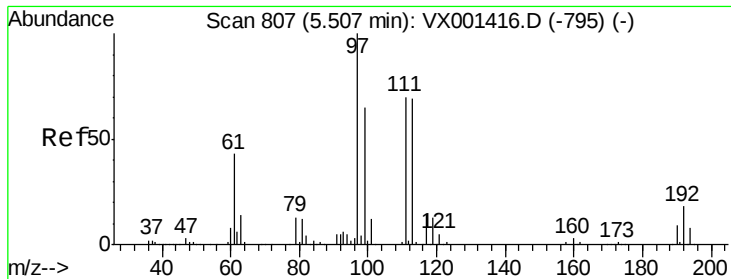
100000

50000

0

Time-->





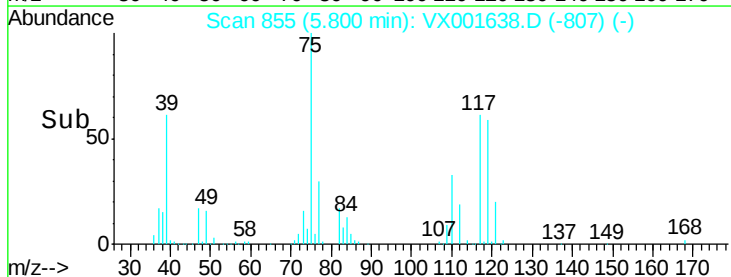
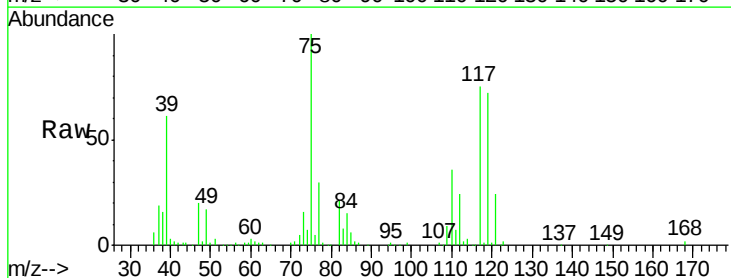
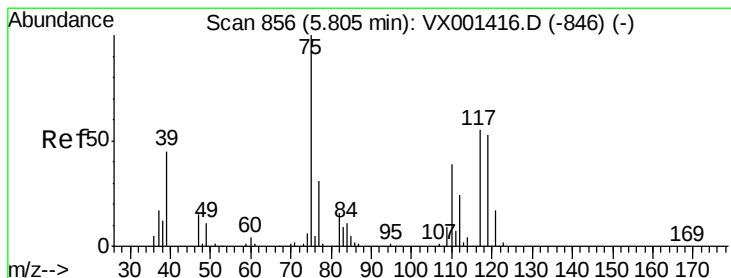
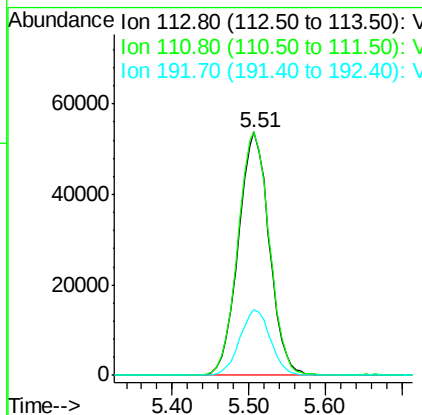
#35
Dibromofluoromethane
Concen: 47.61 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tot Ion	Ratio	Resp	Lower	Upper
113	100	150411		
111	101.7	82.2	123.2	
192	26.8	21.4	32.0	

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

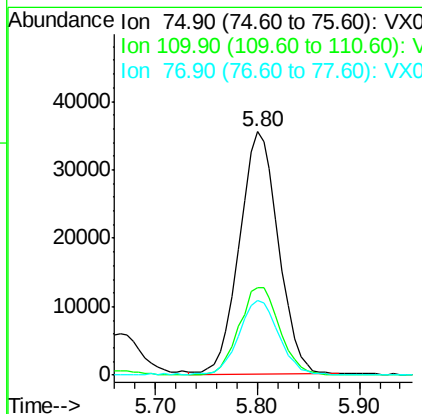
Manual Integrations
APPROVED

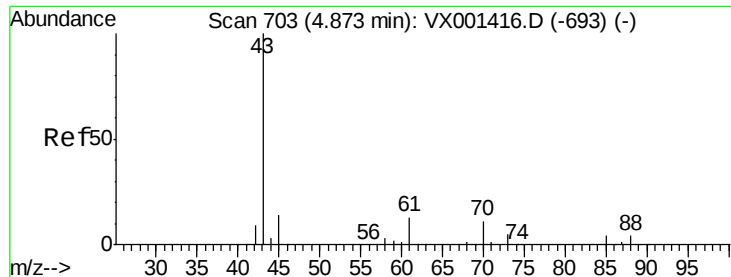
apatel
5/14/2018 3:58:15 PM



#36
1,1-Dichloropropene
Concen: 20.79 ug/l
RT: 5.80 min Scan# 855
Delta R.T. -0.01 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	93917		
110	37.7	18.9	56.7	
77	31.9	24.9	37.3	





#37

Ethyl Acetate

Concen: 20.19 ug/l

RT: 4.87 min Scan# 702

Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

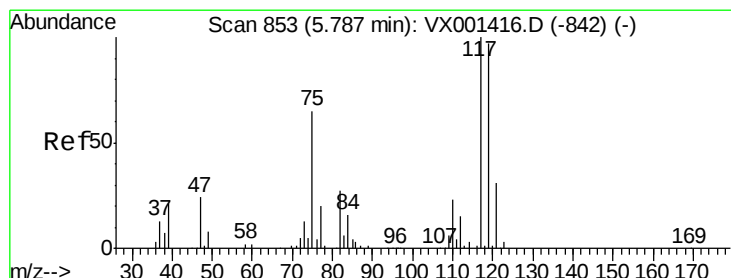
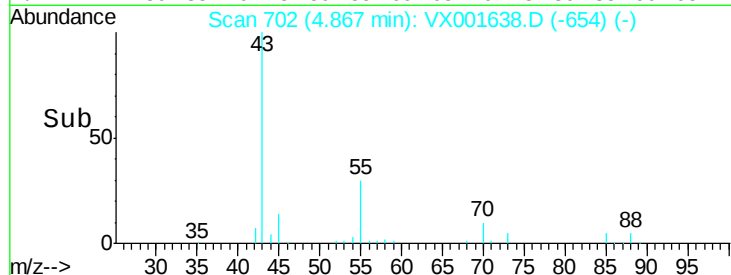
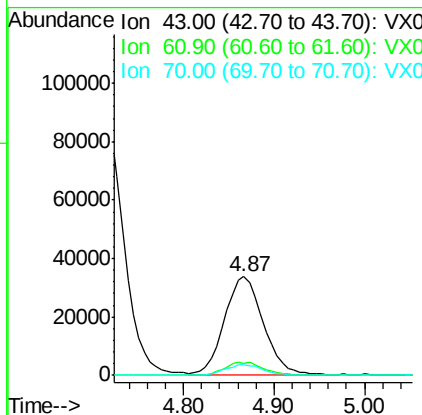
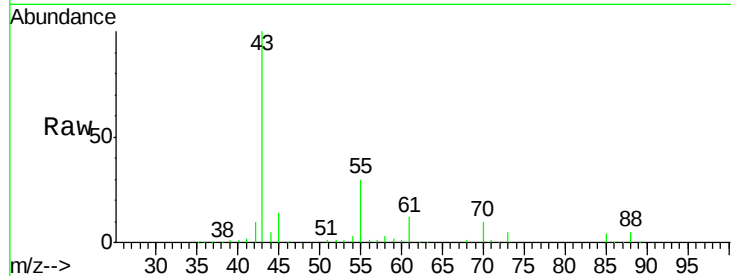
ClientSampled :

VX0511WBS02

Tot Ion:	43	Resp:	99989
Ion	Ratio	Lower	Upper
43	100		
61	12.6	10.7	16.1
70	10.4	8.4	12.6

Manual Integrations
APPROVED

apatel
5/14/2018 3:58:15 PM



#38

Carbon Tetrachloride

Concen: 21.72 ug/l

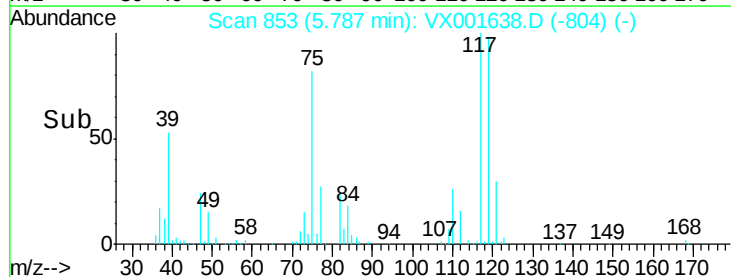
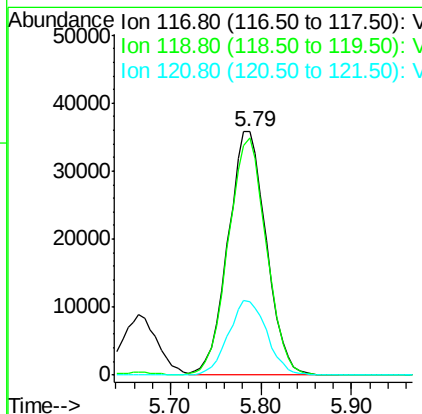
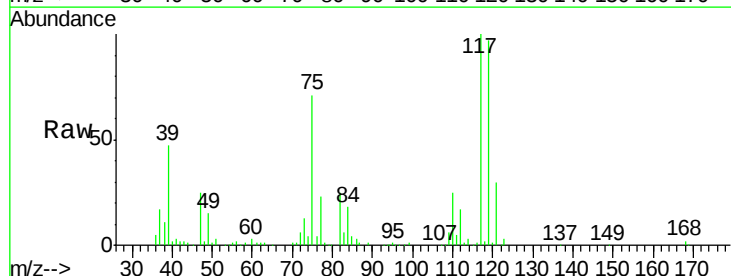
RT: 5.79 min Scan# 853

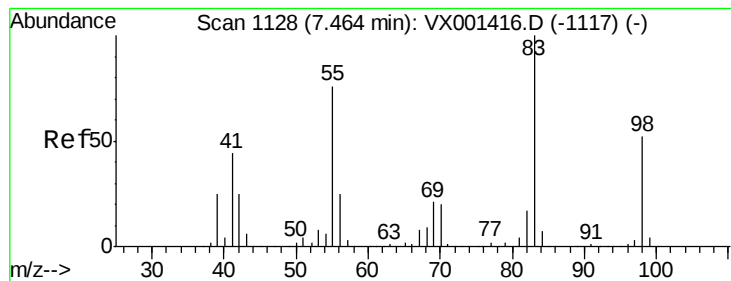
Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Tgt Ion:	117	Resp:	104654
Ion	Ratio	Lower	Upper
117	100		
119	97.3	77.0	115.6
121	30.1	25.1	37.7





#39

Methvlcvclohexane

Concen: 21.39 ug/l

RT: 7.46 min Scan# 1128

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

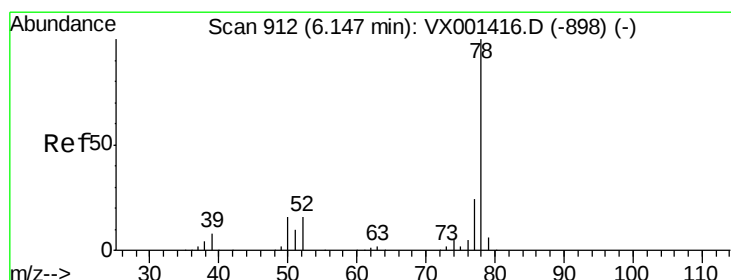
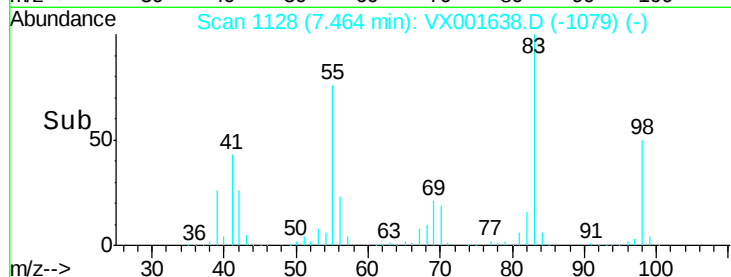
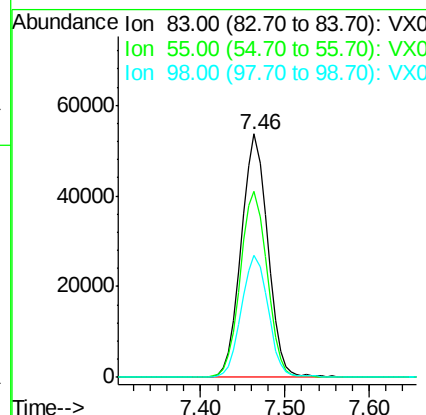
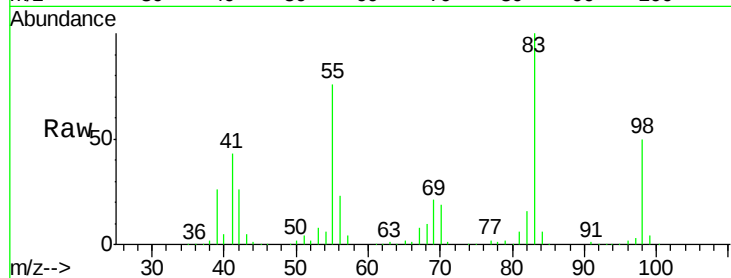
ClientSampleId :

VX0511WBS02

Tot Ion:	83	Resp:	114255
Ion Ratio	Lower	Upper	
83	100		
55	76.2	60.9	91.3
98	50.2	41.9	62.9

Manual Integrations
APPROVED

apatel
5/14/2018 3:58:15 PM



#40

Benzene

Concen: 21.23 ug/l

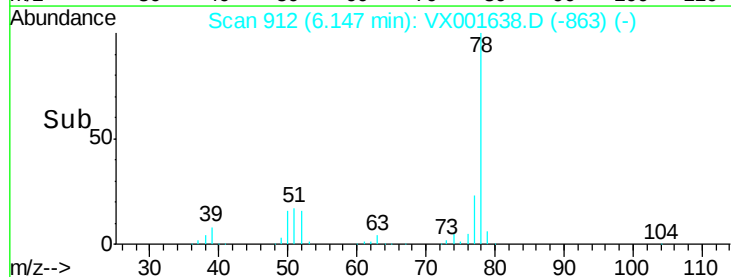
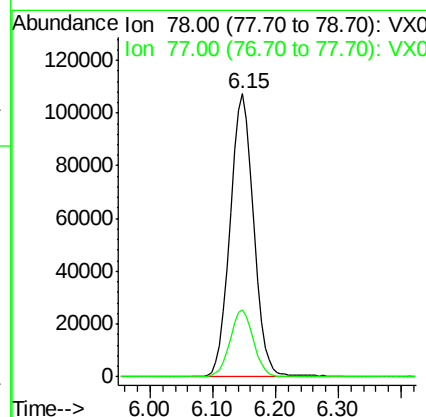
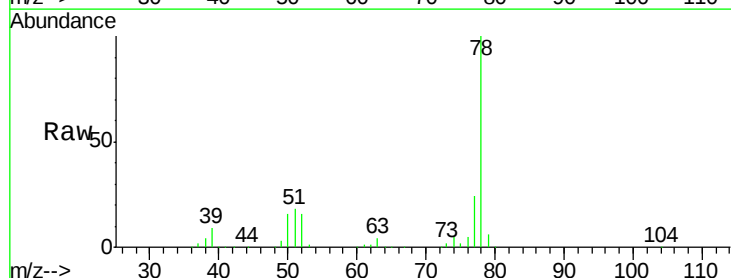
RT: 6.15 min Scan# 912

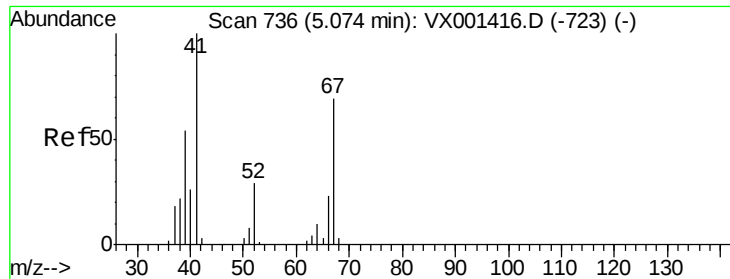
Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Tgt Ion:	78	Resp:	280087
Ion Ratio	Lower	Upper	
78	100		
77	23.7	19.4	29.2





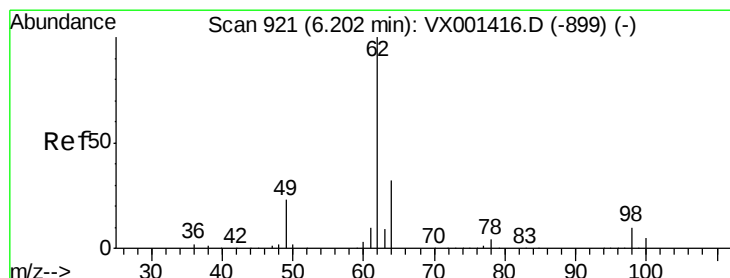
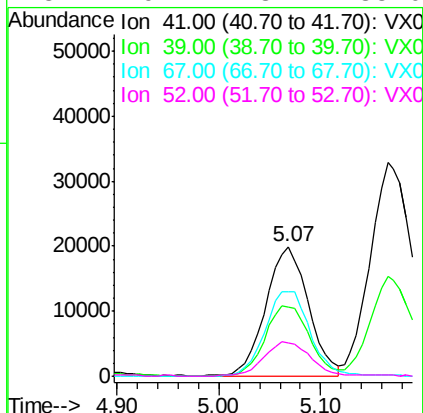
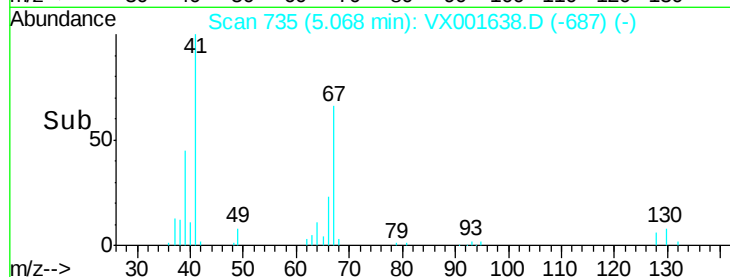
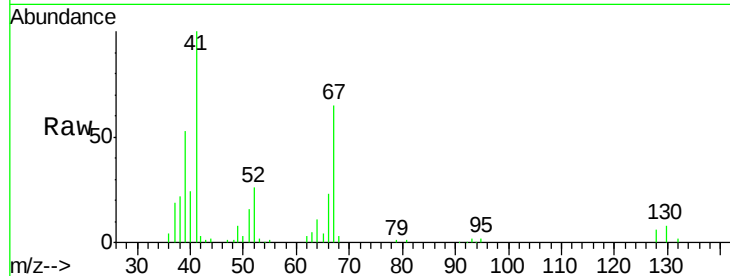
#41
Methacrylonitrile
Concen: 20.48 ug/l
RT: 5.07 min Scan# 735
Delta R.T. -0.01 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.0	45.0	67.6	
67	69.5	55.0	82.6	
52	29.1	23.4	35.0	

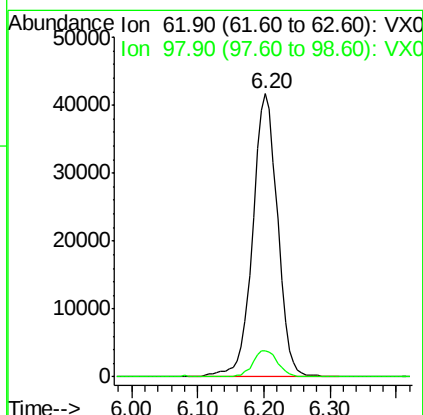
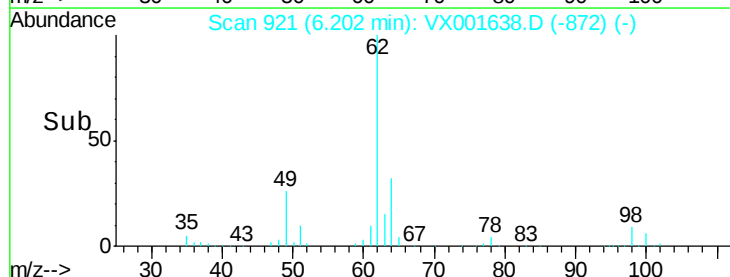
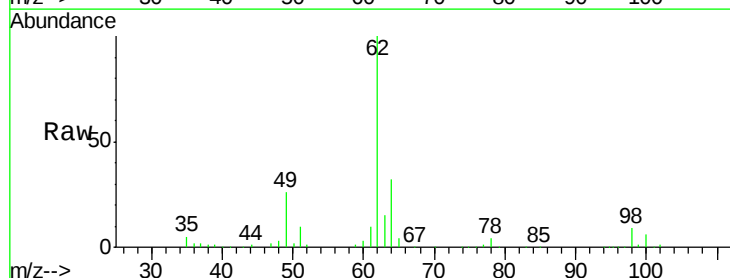
Manual Integrations
APPROVED

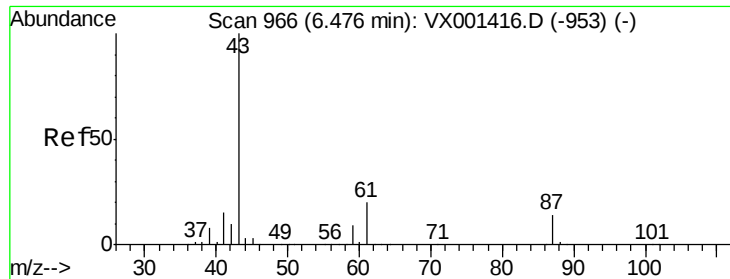
apatel
5/14/2018 3:58:15 PM



#42
1,2-Dichloroethane
Concen: 21.50 ug/l
RT: 6.20 min Scan# 921
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.3	0.0	19.0	





#43

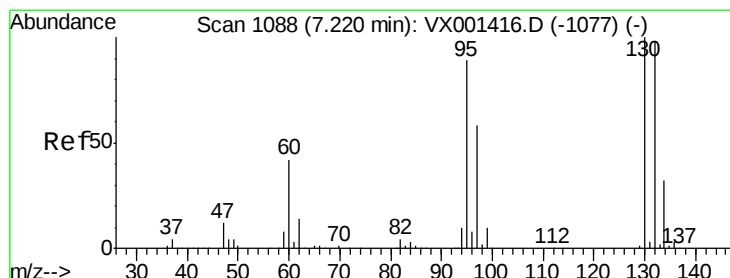
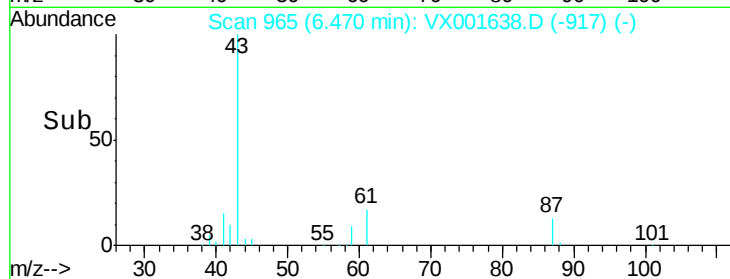
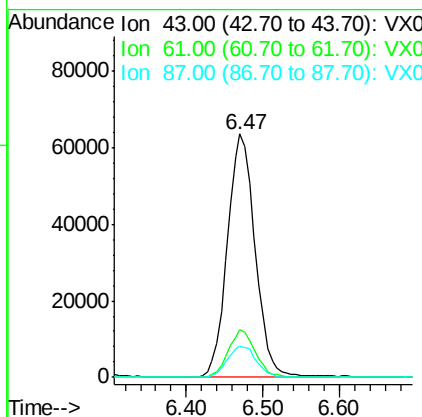
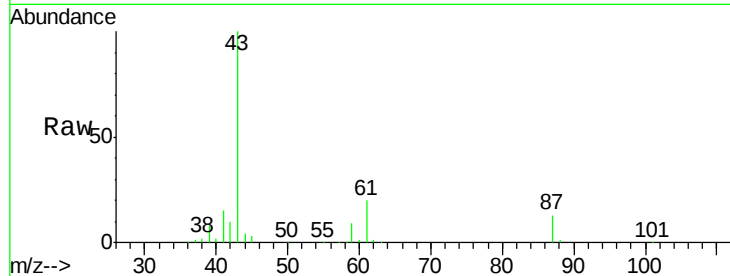
Isopropyl Acetate
 Concen: 20.97 ug/l
 RT: 6.47 min Scan# 965
 Delta R.T. -0.01 min
 Lab File: VX001638.D
 Acq: 11 May 2018 14:38

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0511WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	19.3	15.4	23.0
87	13.3	10.8	16.2

Manual Integrations
 APPROVED

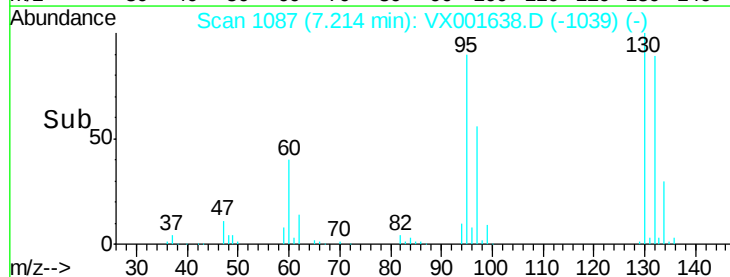
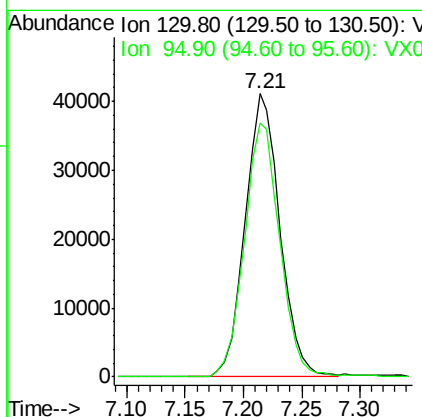
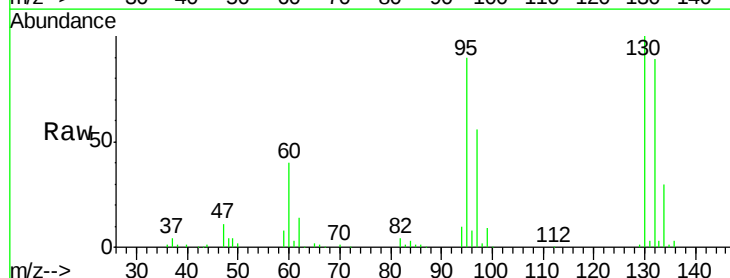
apatel
 5/14/2018 3:58:15 PM

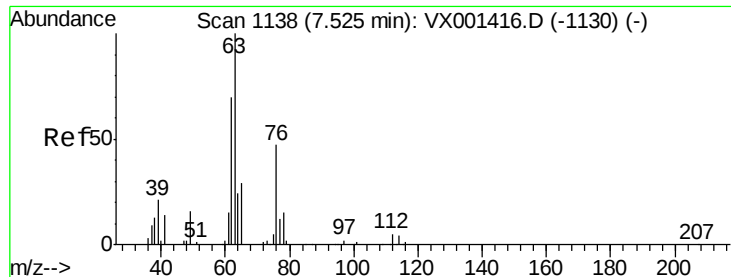


#44

Trichloroethene
 Concen: 21.19 ug/l
 RT: 7.21 min Scan# 1087
 Delta R.T. -0.01 min
 Lab File: VX001638.D
 Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Lower	Upper
130	100		
95	89.8	0.0	178.4





#45

1,2-Dichloropropane

Concen: 21.01 ug/l

RT: 7.52 min Scan# 1137

Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

VX0511WBS02

Tot Ion: 63 Resp: 69112

Ion Ratio Lower Upper

63 100

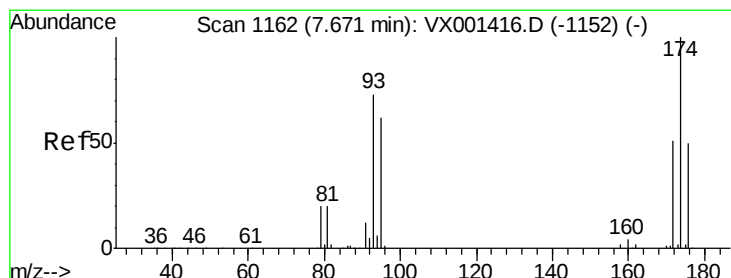
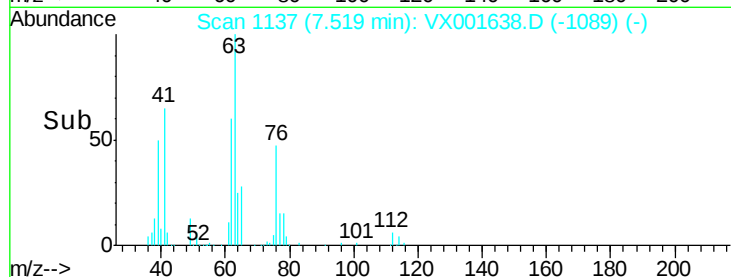
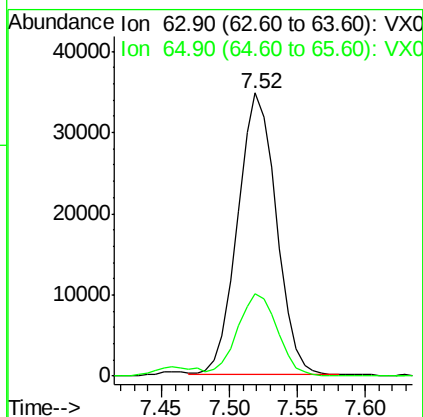
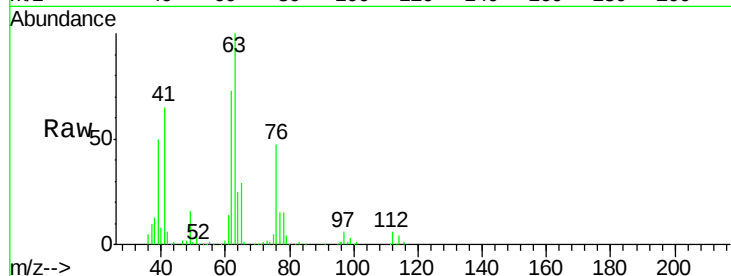
65 29.3 24.5 36.7

Manual Integrations

APPROVED

apatel

5/14/2018 3:58:15 PM



#46

Dibromomethane

Concen: 21.04 ug/l

RT: 7.67 min Scan# 1161

Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

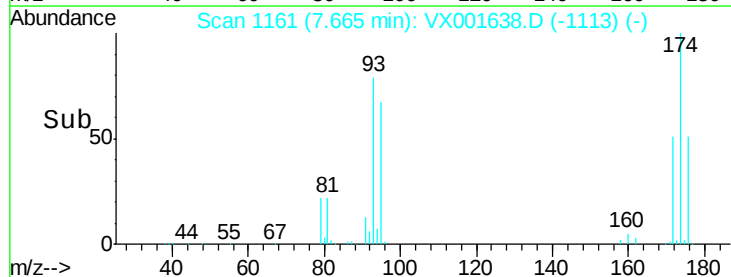
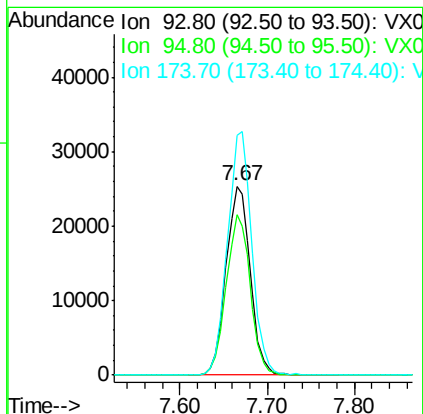
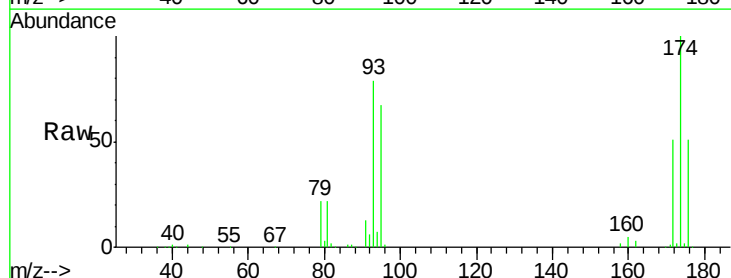
Tgt Ion: 93 Resp: 48995

Ion Ratio Lower Upper

93 100

95 84.3 67.0 100.4

174 129.0 104.5 156.7





#47

Bromodichloromethane

Concen: 21.89 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

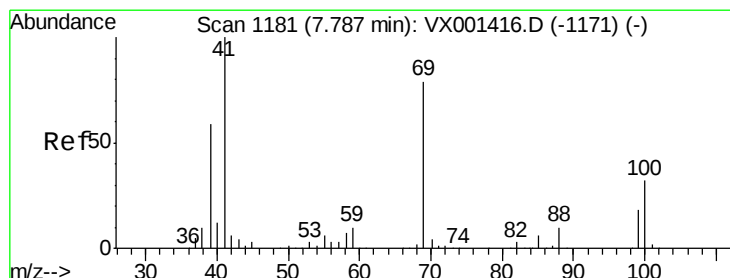
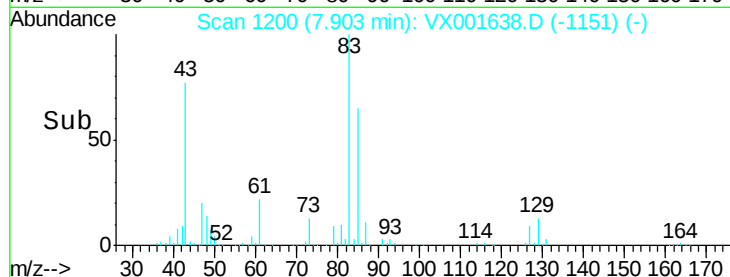
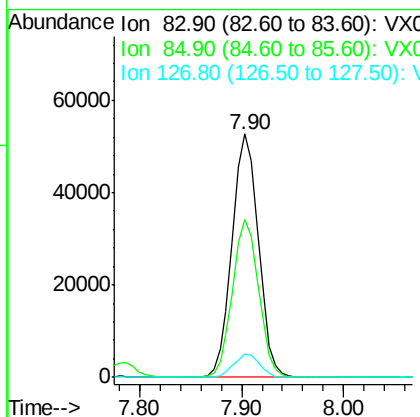
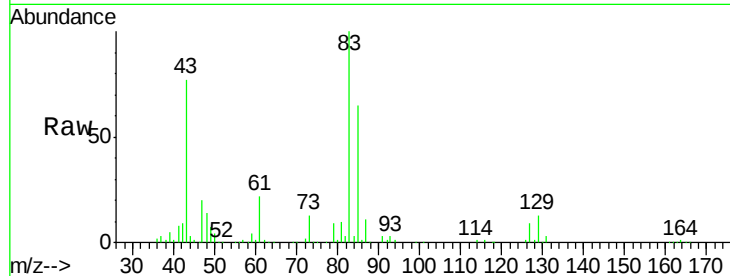
ClientSampleId :

VX0511WBS02

Tot Ion:	83	Resp:	94335
Ion Ratio	Lower	Upper	
83	100		
85	64.6	51.0	76.6
127	9.4	7.4	11.2

Manual Integrations
APPROVED

apatel
5/14/2018 3:58:15 PM



#48

Methyl methacrylate

Concen: 20.64 ug/l

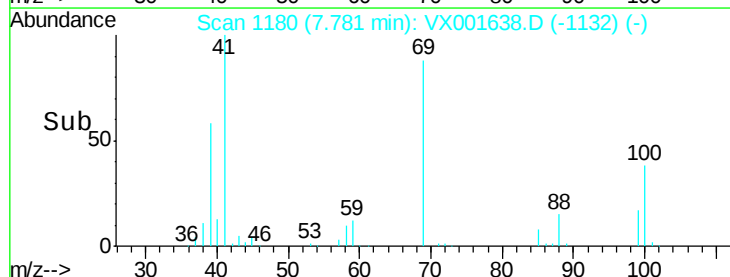
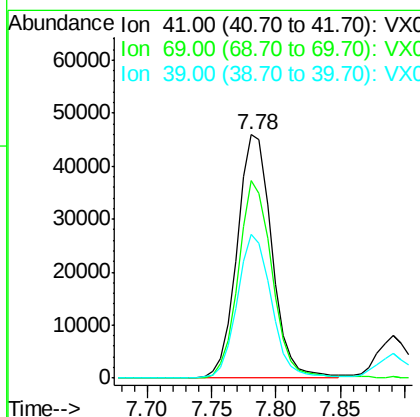
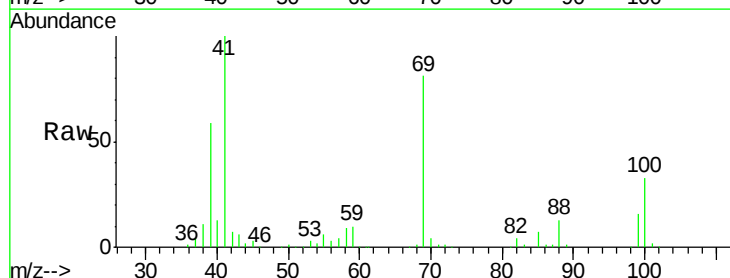
RT: 7.78 min Scan# 1180

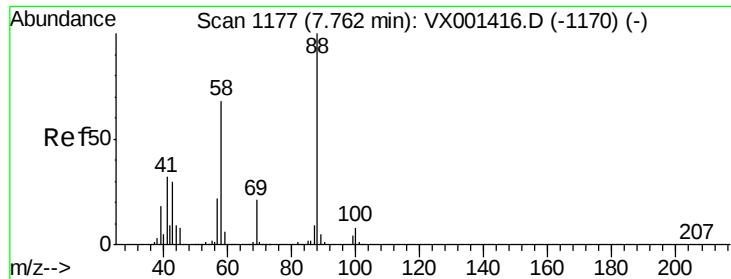
Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Tgt Ion:	41	Resp:	85439
Ion Ratio	Lower	Upper	
41	100		
69	79.6	63.4	95.2
39	58.9	47.0	70.4





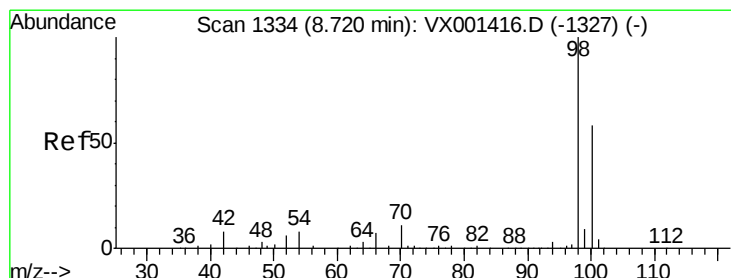
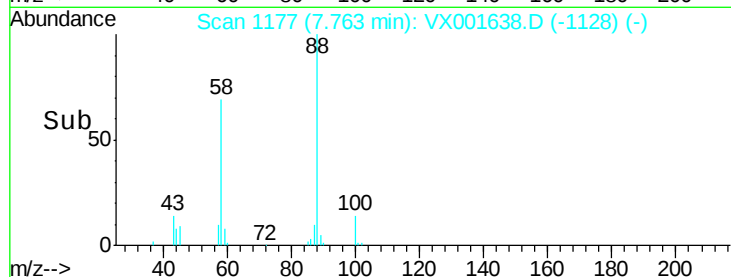
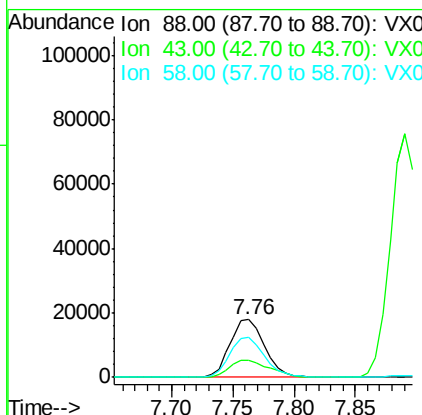
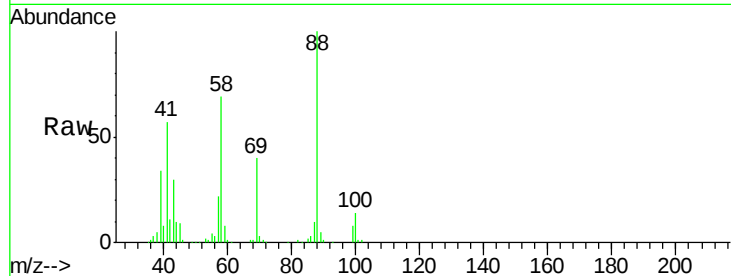
#49
1,4-Dioxane
Concen: 397.20 ug/l
RT: 7.76 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.3	26.4	39.6
58	70.2	54.1	81.1

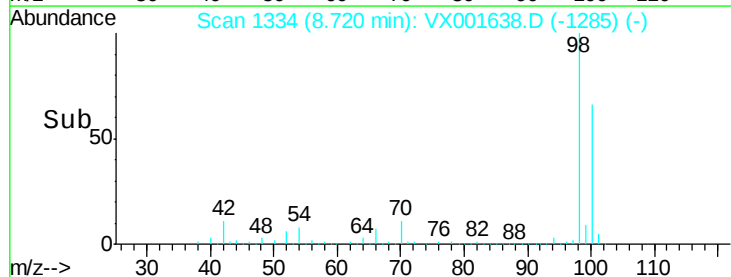
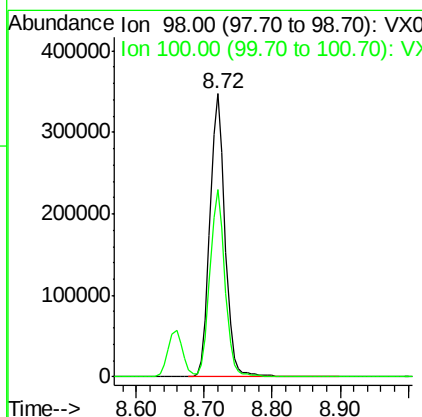
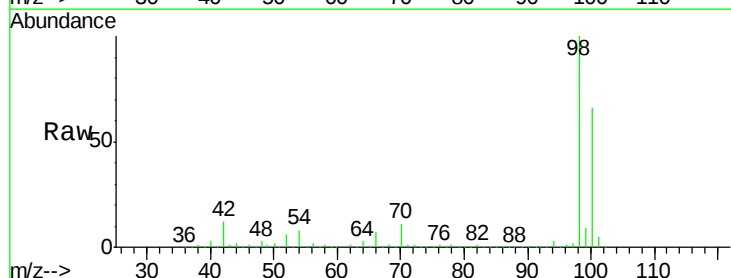
Manual Integrations
APPROVED

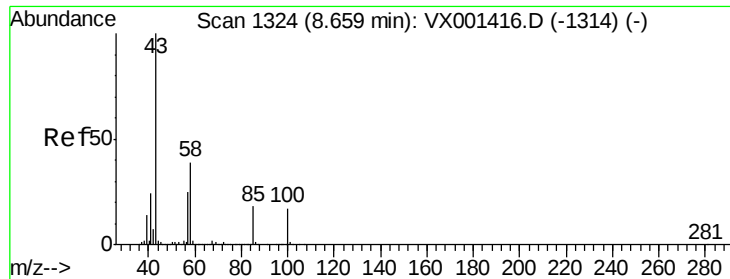
apatel
5/14/2018 3:58:15 PM



#50
Toluene-d8
Concen: 46.64 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.3	54.0	81.0





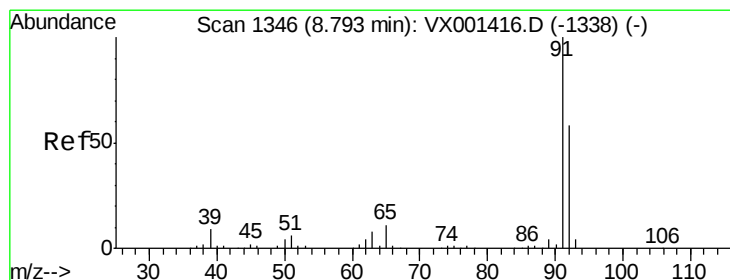
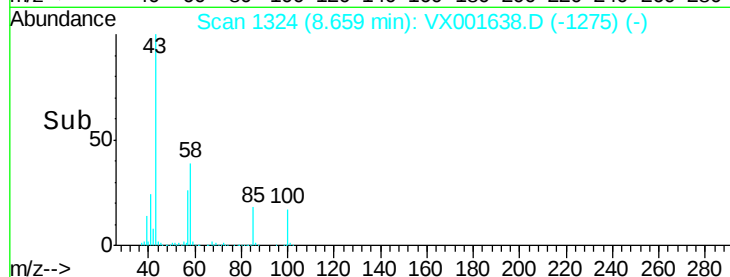
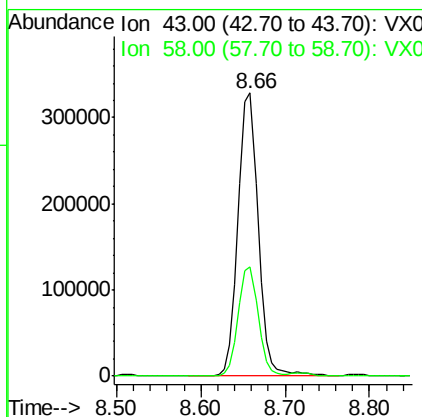
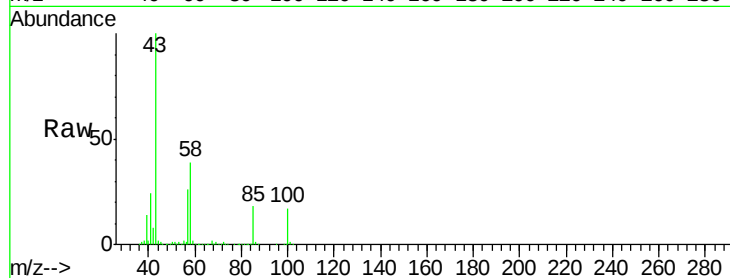
#51
4-Methyl-2-Pentanone
Concen: 105.18 ug/l
RT: 8.66 min Scan# 1324
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.1	30.8	46.2

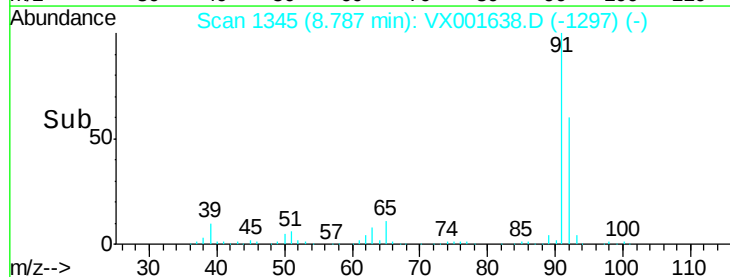
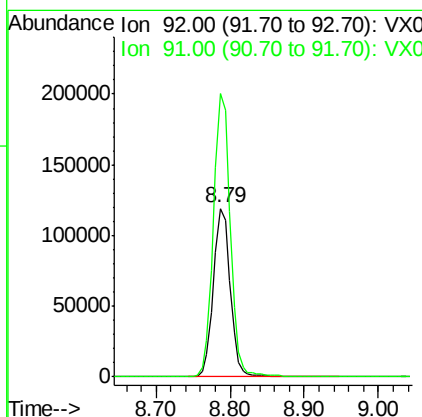
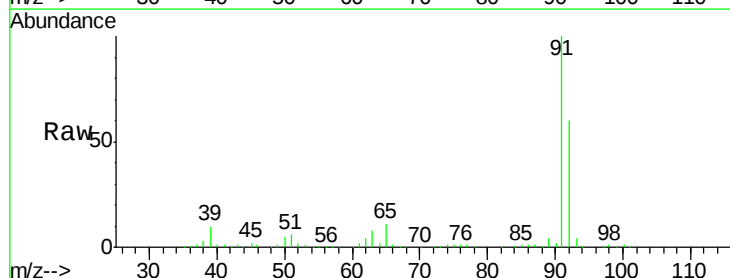
Manual Integrations
APPROVED

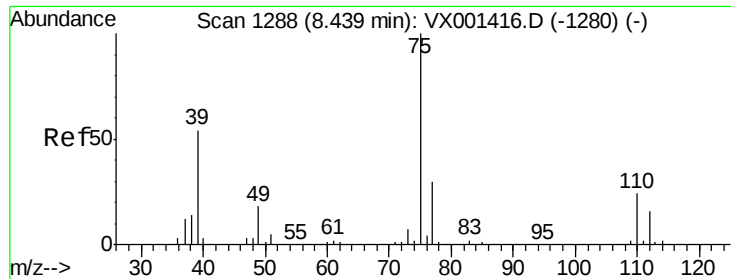
apatel
5/14/2018 3:58:15 PM



#52
Toluene
Concen: 21.59 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. -0.01 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Lower	Upper
92	100		
91	168.1	135.2	202.8





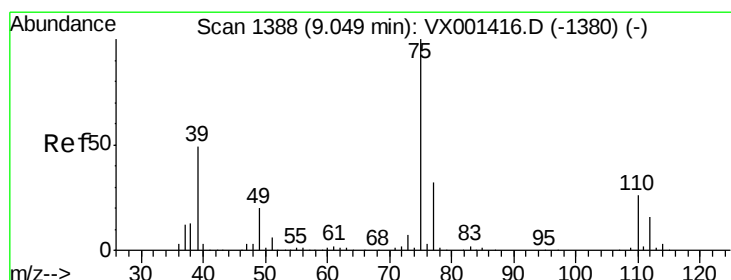
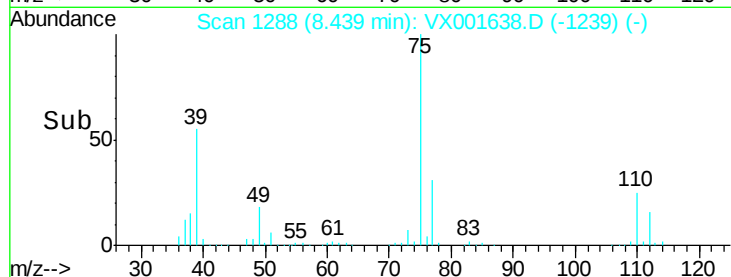
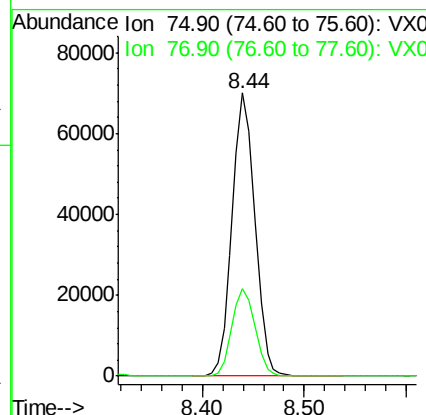
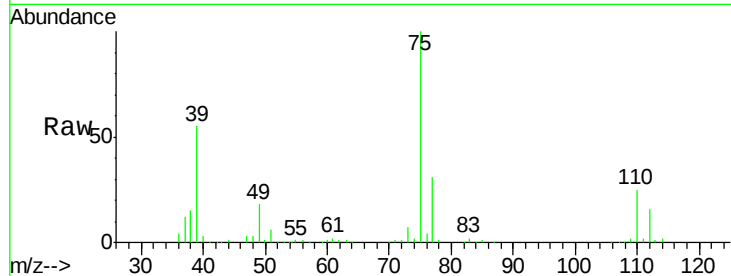
#53
t-1,3-Dichloropropene
Concen: 22.29 ug/l
RT: 8.44 min Scan# 1288
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion	Ratio	Resp	Lower	Upper
75	100	108555		
77	30.8		24.2	36.4

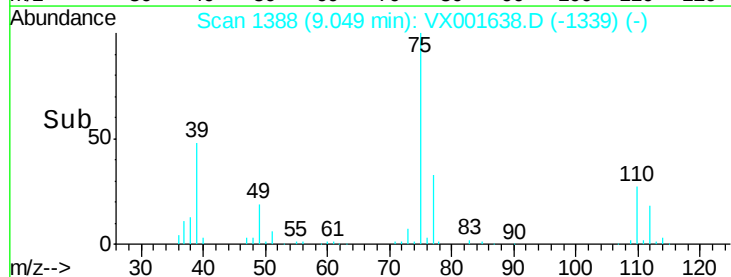
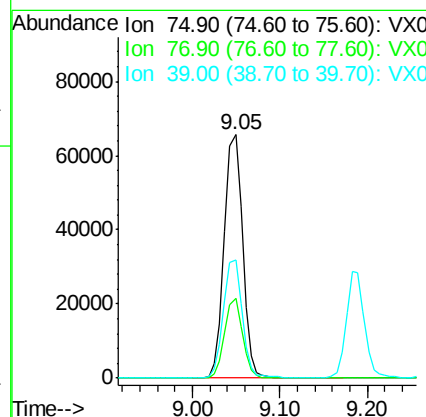
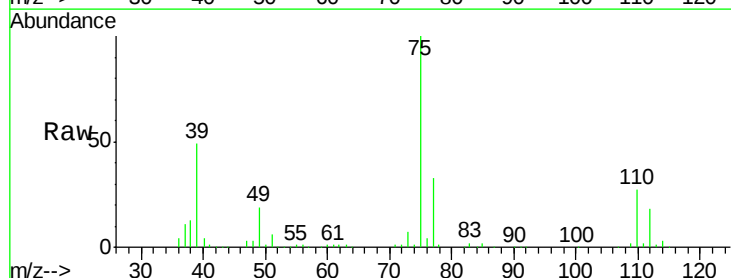
Manual Integrations
APPROVED

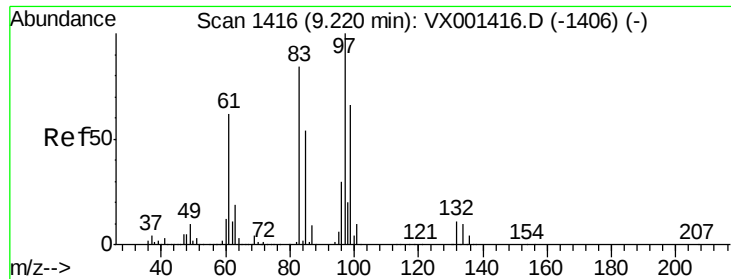
apatel
5/14/2018 3:58:15 PM



#54
cis-1,3-Dichloropropene
Concen: 20.51 ug/l
RT: 9.05 min Scan# 1388
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	96254		
77	32.6		25.5	38.3
39	48.4		38.9	58.3





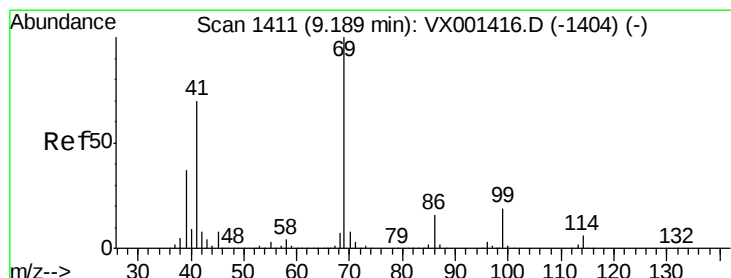
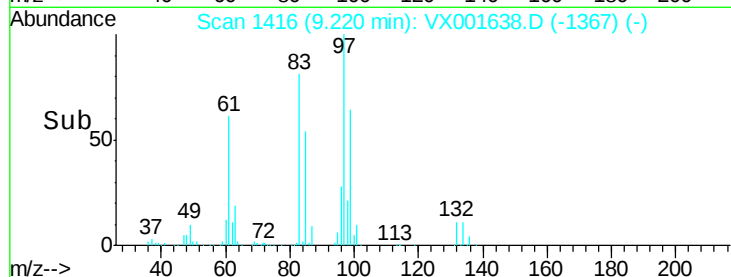
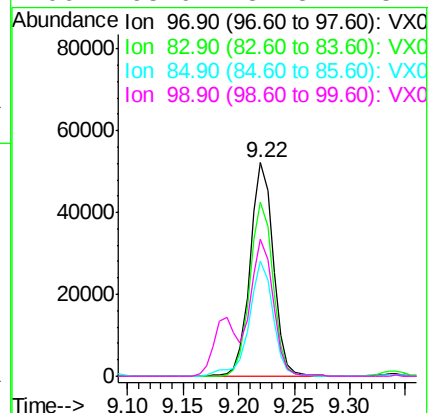
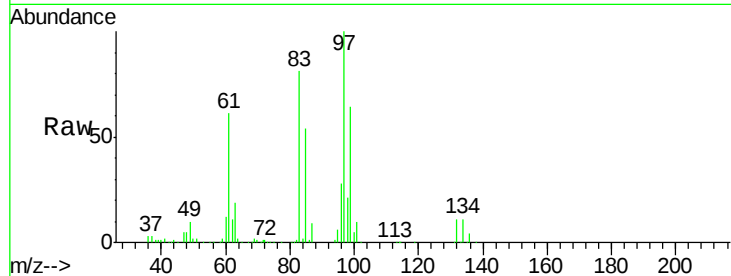
#55
 1,1,2-Trichloroethane
 Concen: 21.89 ug/l
 RT: 9.22 min Scan# 1416
 Delta R.T. 0.00 min
 Lab File: VX001638.D
 Acq: 11 May 2018 14:38

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0511WBS02

Tot Ion	Ratio	Lower	Upper
97	100		
83	81.4	67.4	101.0
85	54.0	43.3	64.9
99	63.9	52.5	78.7

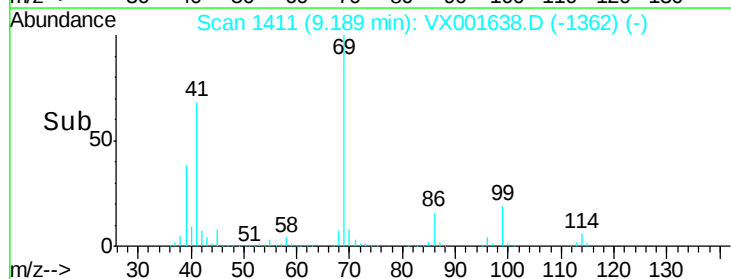
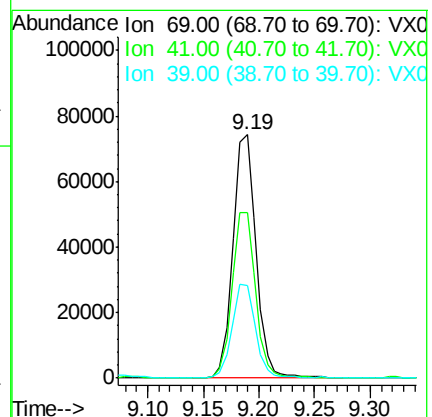
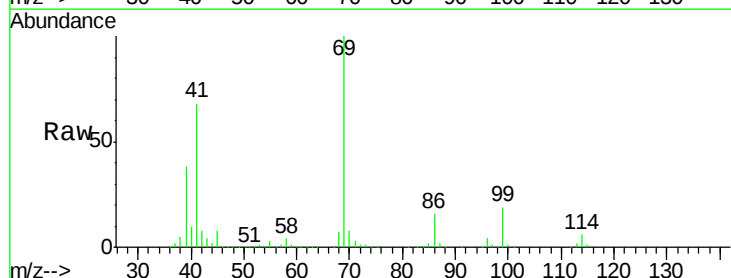
Manual Integrations
 APPROVED

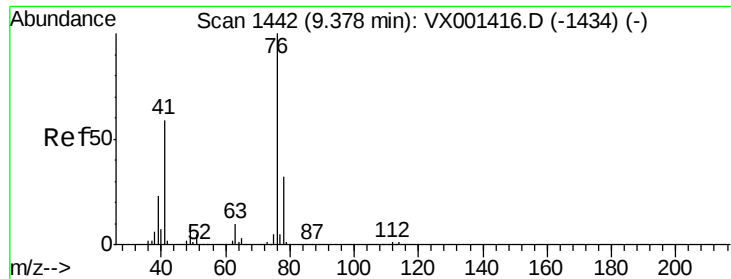
apatel
 5/14/2018 3:58:15 PM



#56
 Ethyl methacrylate
 Concen: 21.29 ug/l
 RT: 9.19 min Scan# 1411
 Delta R.T. 0.00 min
 Lab File: VX001638.D
 Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Lower	Upper
69	100		
41	69.0	55.1	82.7
39	38.8	29.9	44.9





#57

1,3-Dichloropropane

Concen: 21.19 ug/l

RT: 9.38 min Scan# 1442

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

VX0511WBS02

Tot Ion: 76 Resp: 121807

Ion Ratio Lower Upper

76 100

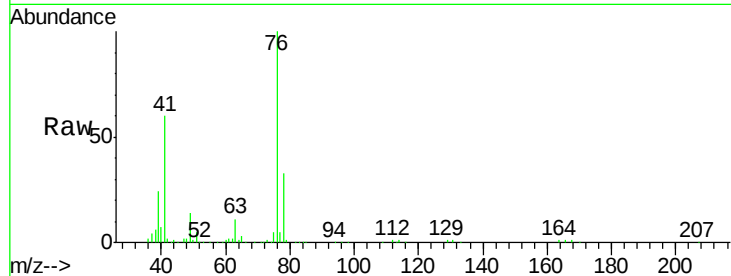
78 32.0 25.8 38.6

Manual Integrations

APPROVED

apatel

5/14/2018 3:58:15 PM

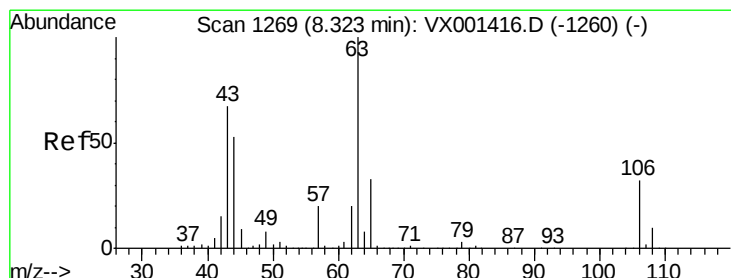
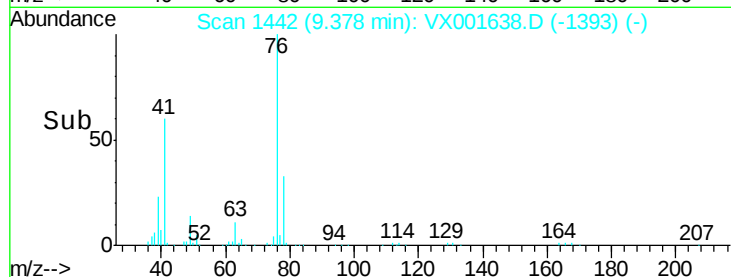


Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.38

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 99.11 ug/l

RT: 8.32 min Scan# 1268

Delta R.T. -0.01 min

Lab File: VX001638.D

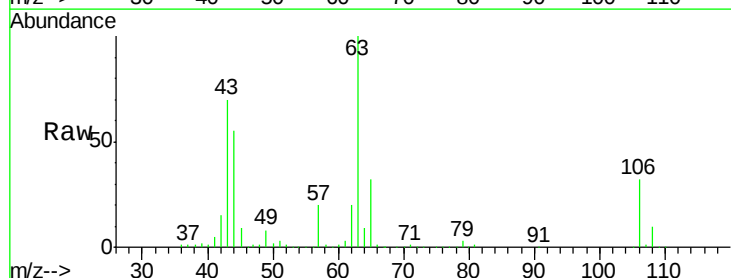
Acq: 11 May 2018 14:38

Tgt Ion: 63 Resp: 243564

Ion Ratio Lower Upper

63 100

106 31.4 25.4 38.0

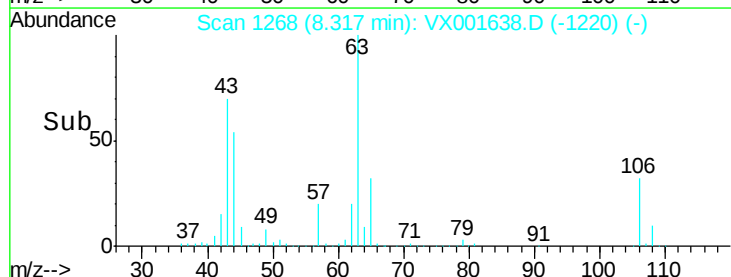


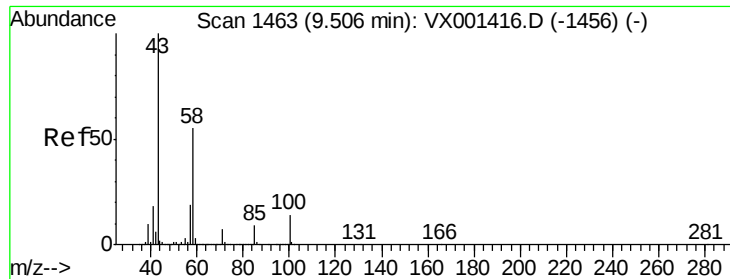
Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

8.32

Time-->





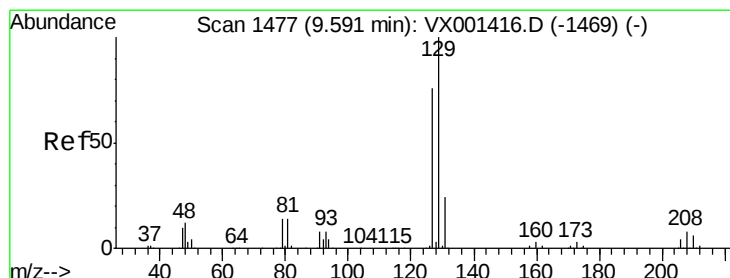
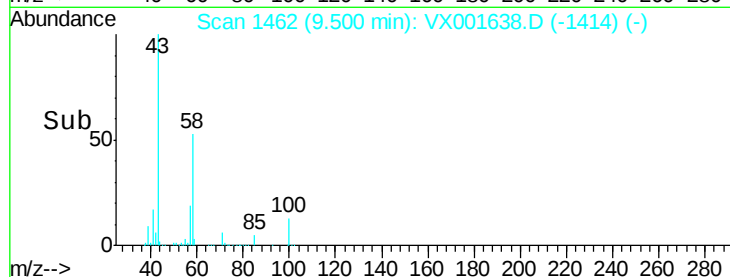
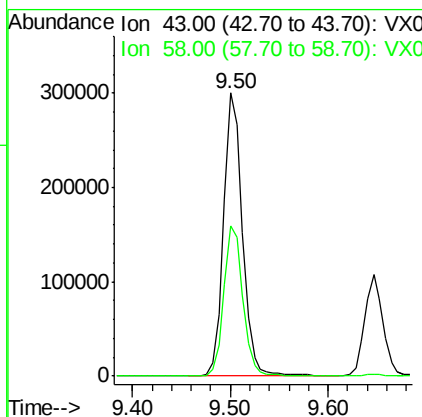
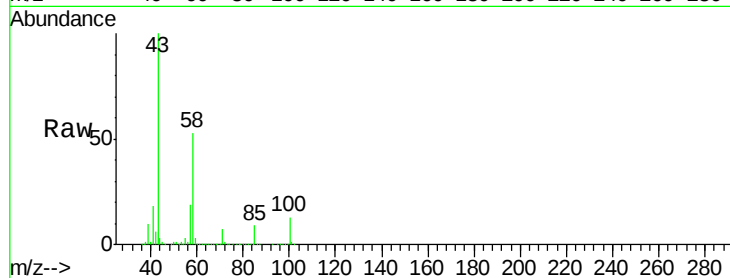
#59
2-Hexanone
Concen: 103.71 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. -0.01 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion: 43 Resp: 401179
Ion Ratio Lower Upper
43 100
58 54.0 27.1 81.2

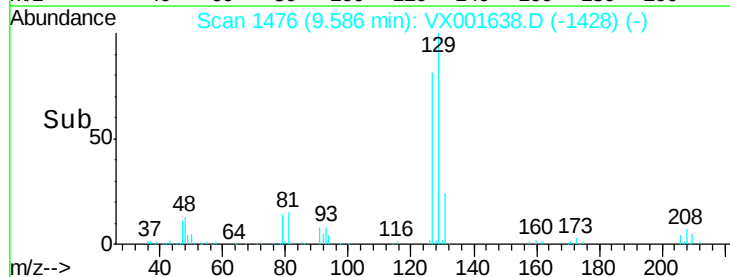
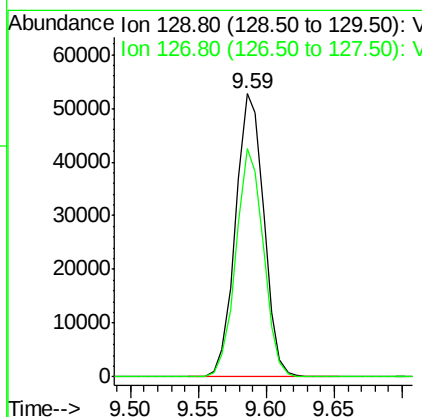
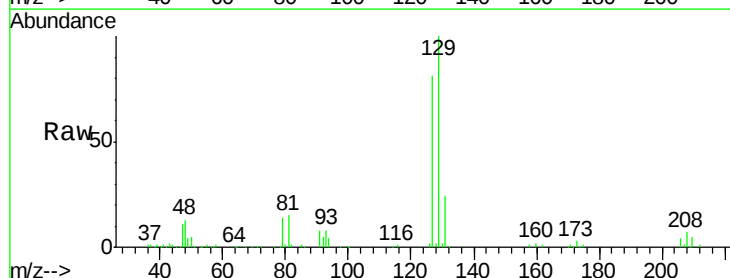
Manual Integrations
APPROVED

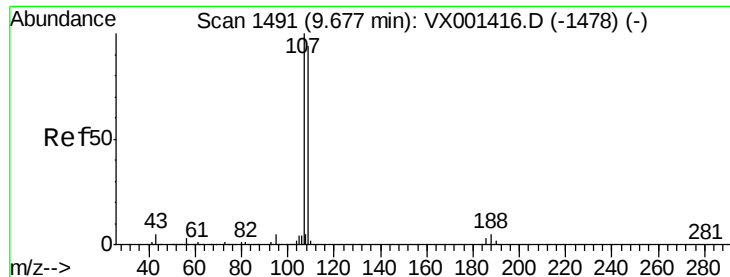
apatel
5/14/2018 3:58:15 PM



#60
Dibromochloromethane
Concen: 21.46 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. -0.01 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion: 129 Resp: 76399
Ion Ratio Lower Upper
129 100
127 78.5 38.1 114.5





#61

1,2-Dibromoethane

Concen: 21.04 ug/l

RT: 9.68 min Scan# 1491

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

VX0511WBS02

Tot Ion:107 Resp: 76800

Ion Ratio Lower Upper

107 100

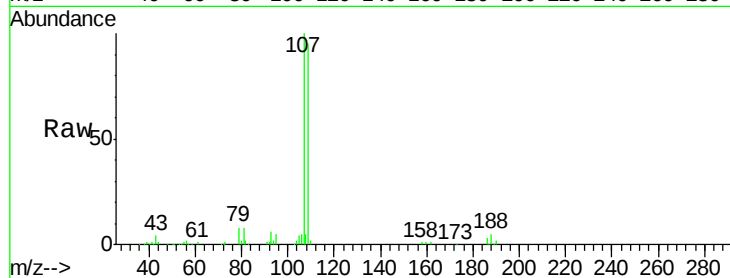
109 94.8 75.5 113.3

Manual Integrations

APPROVED

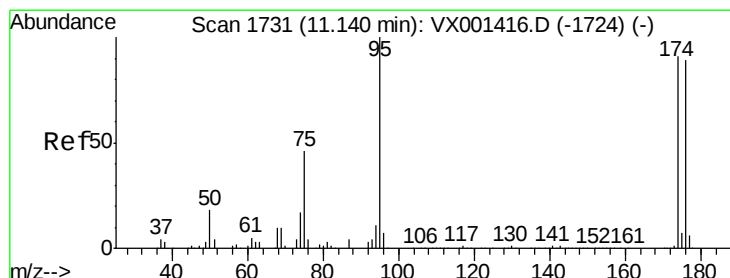
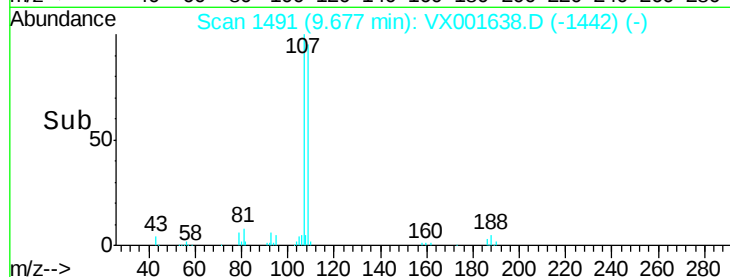
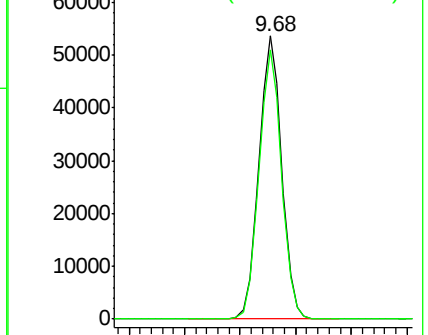
apatel

5/14/2018 3:58:15 PM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V



#62

4-Bromofluorobenzene

Concen: 46.27 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

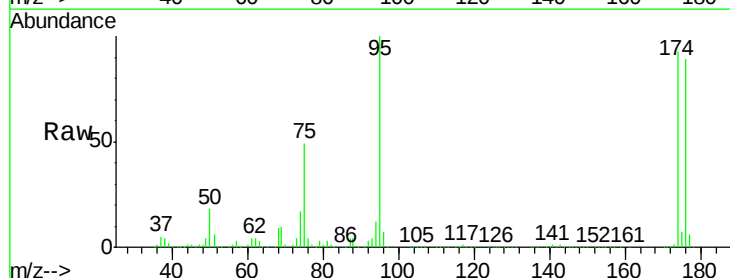
Tgt Ion: 95 Resp: 204799

Ion Ratio Lower Upper

95 100

174 100.8 0.0 202.0

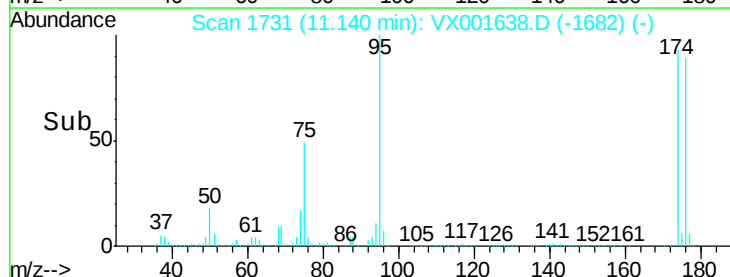
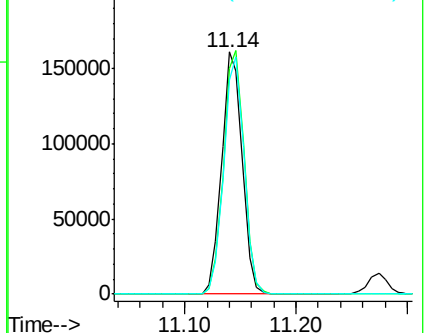
176 97.4 0.0 197.4



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V





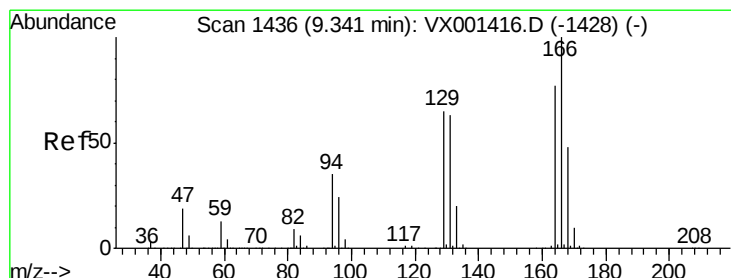
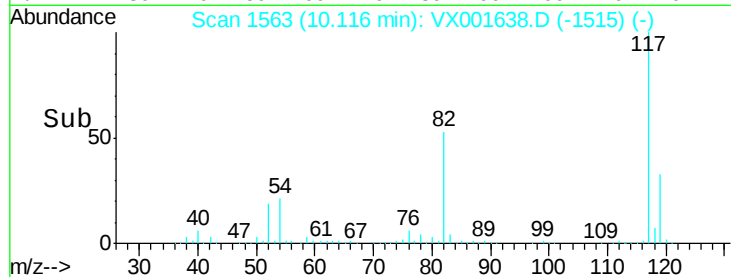
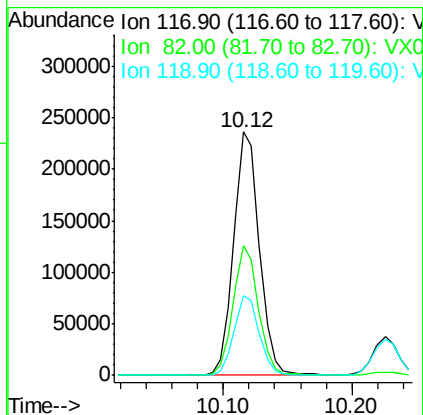
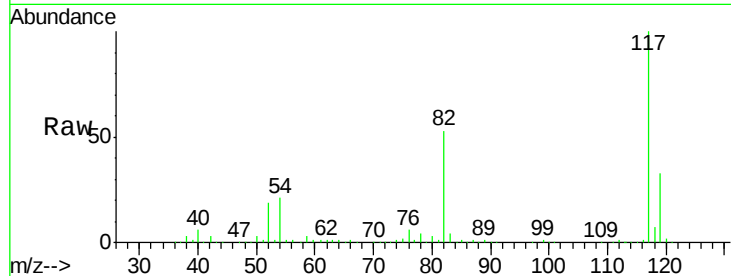
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.01 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.1	40.0	60.0
119	32.9	25.8	38.8

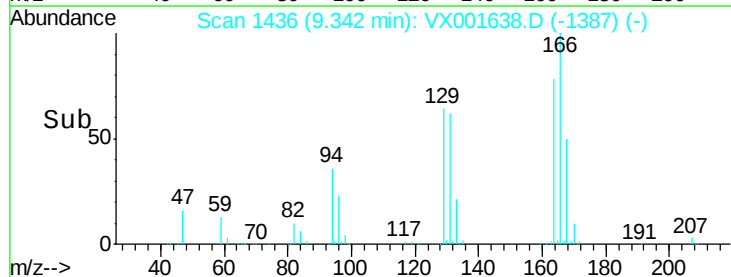
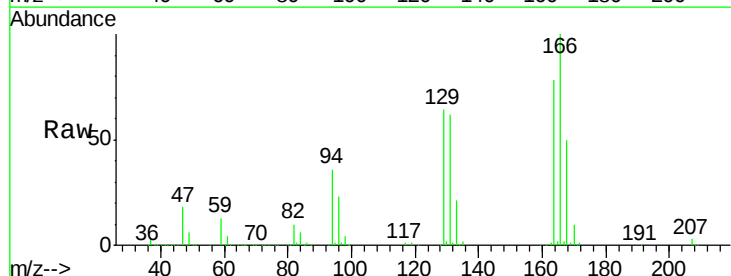
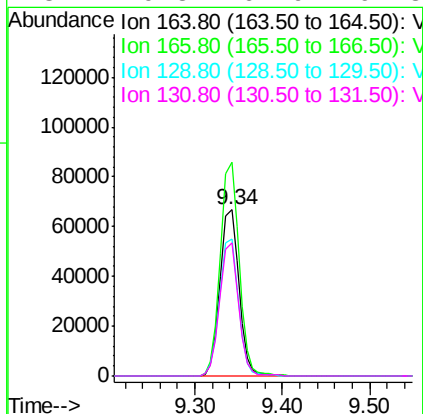
Manual Integrations
APPROVED

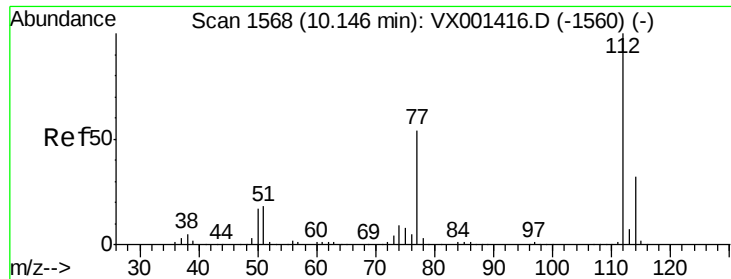
apatel
5/14/2018 3:58:15 PM



#64
Tetrachloroethene
Concen: 21.91 ug/l
RT: 9.34 min Scan# 1436
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.4	103.5	155.3
129	82.6	66.7	100.1
131	79.8	64.9	97.3





#65

Chlorobenzene

Concen: 21.79 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

VX0511WBS02

Tot Ion:112 Resp: 210478

Ion Ratio Lower Upper

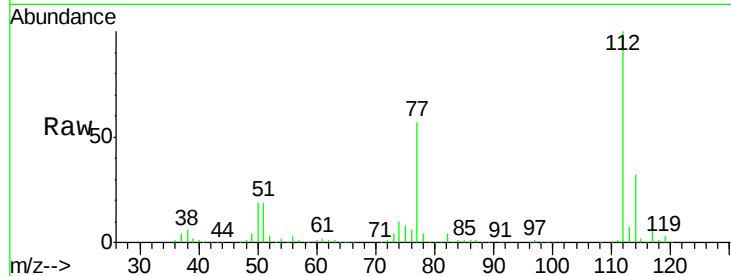
112 100

114 32.5 26.0 39.0

Manual Integrations
APPROVED

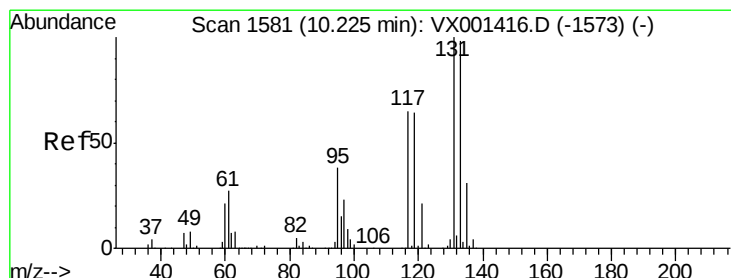
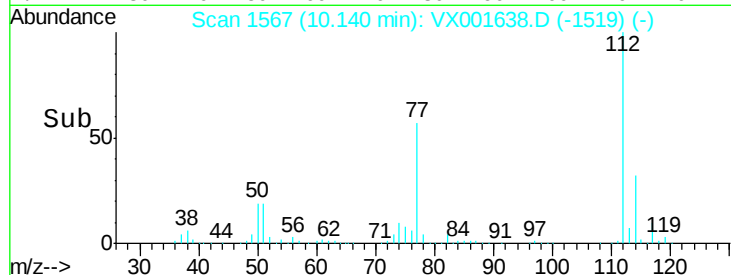
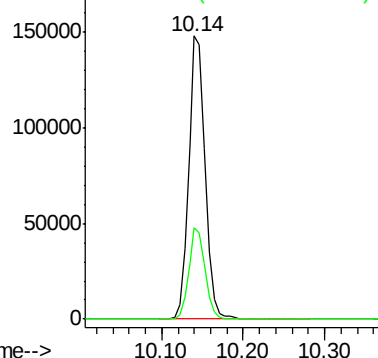
apatel

5/14/2018 3:58:15 PM



Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 22.51 ug/l

RT: 10.23 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

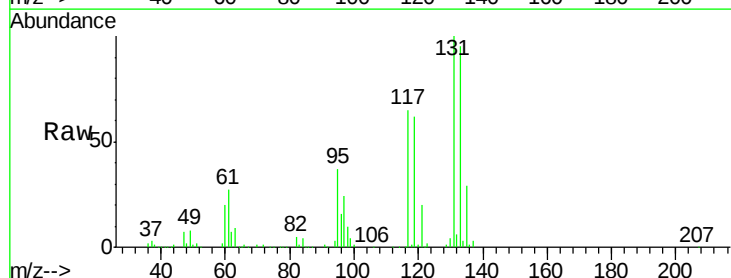
Tgt Ion:131 Resp: 77771

Ion Ratio Lower Upper

131 100

133 95.0 47.9 143.8

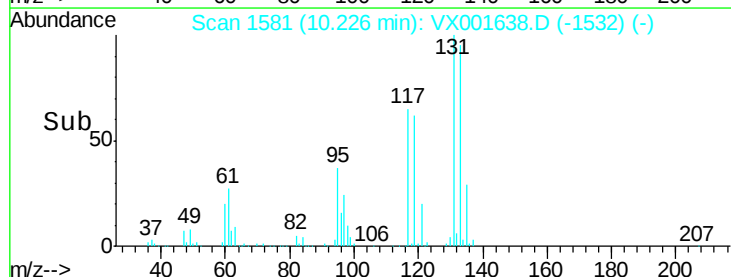
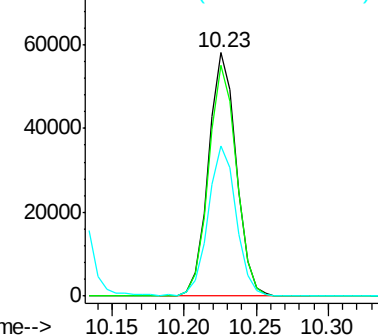
119 62.2 31.1 93.3

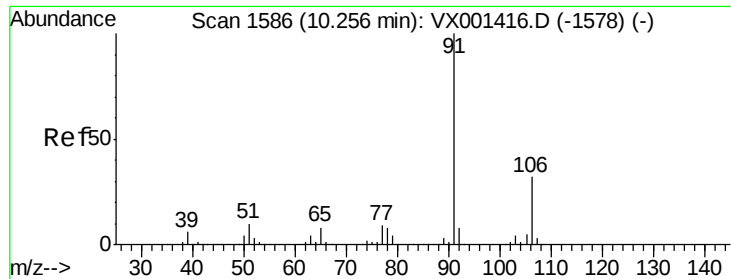


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





#67

Ethyl Benzene

Concen: 21.83 ug/l

RT: 10.26 min Scan# 1586

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampled :

VX0511WBS02

Tot Ion: 91 Resp: 345503

Ion Ratio Lower Upper

91 100

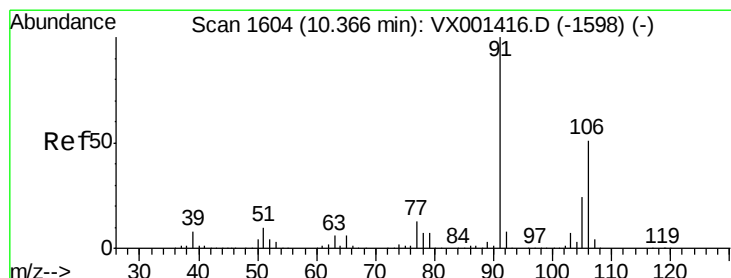
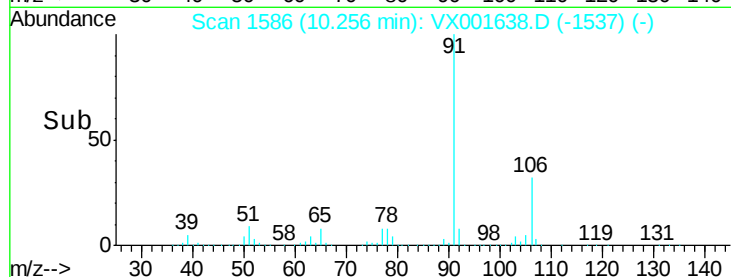
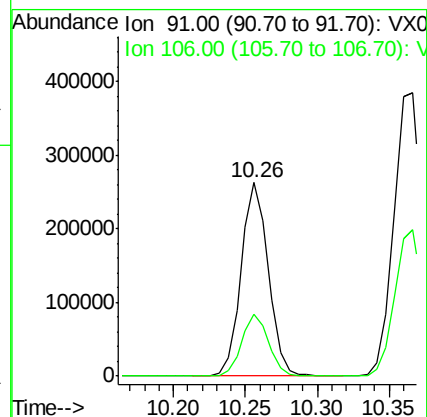
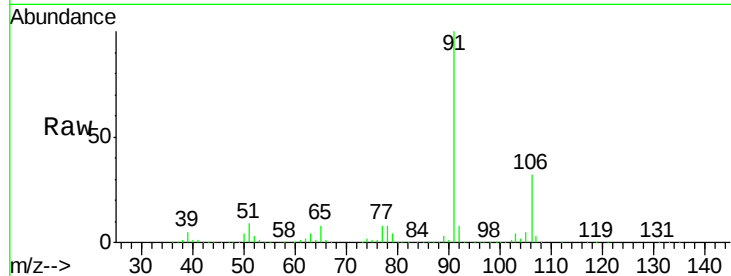
106 31.9 25.5 38.3

Manual Integrations

APPROVED

apatel

5/14/2018 3:58:15 PM



#68

m/p-Xylenes

Concen: 44.13 ug/l

RT: 10.37 min Scan# 1604

Delta R.T. 0.00 min

Lab File: VX001638.D

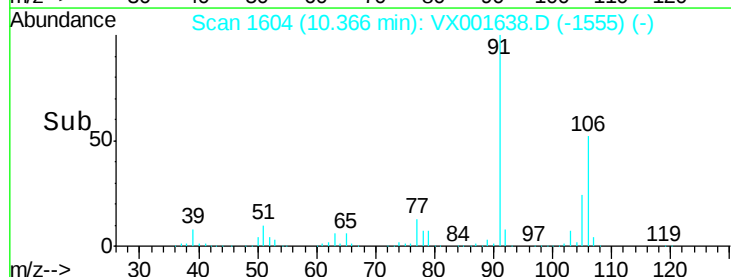
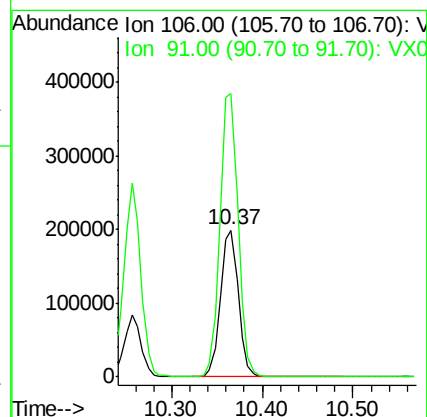
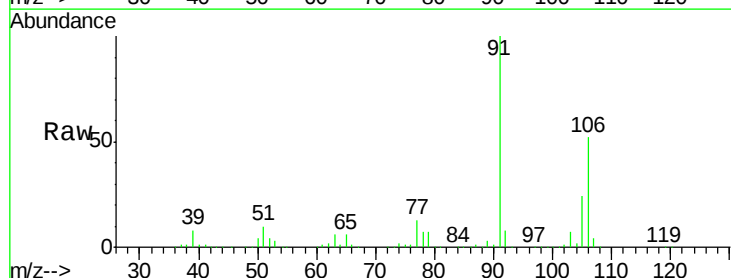
Acq: 11 May 2018 14:38

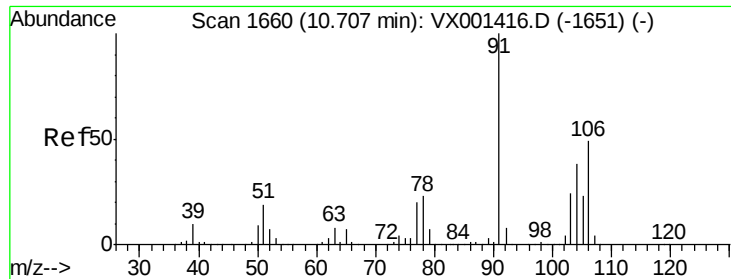
Tgt Ion: 106 Resp: 276028

Ion Ratio Lower Upper

106 100

91 197.3 157.5 236.3





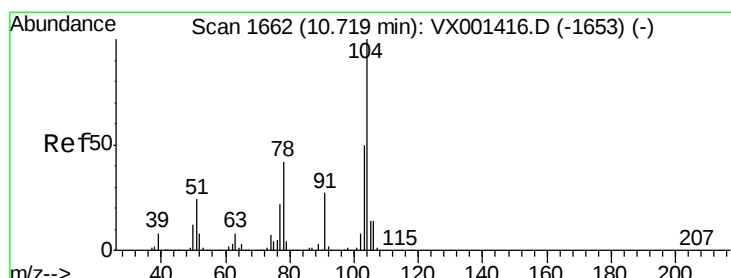
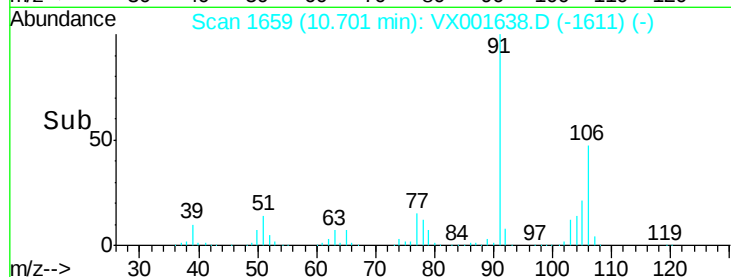
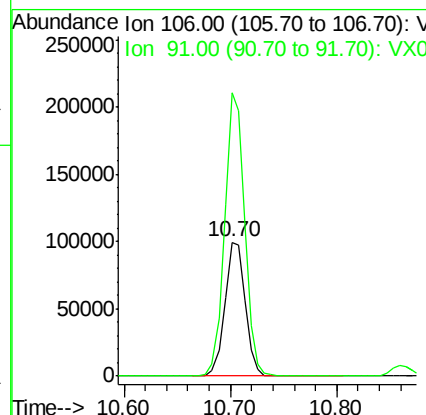
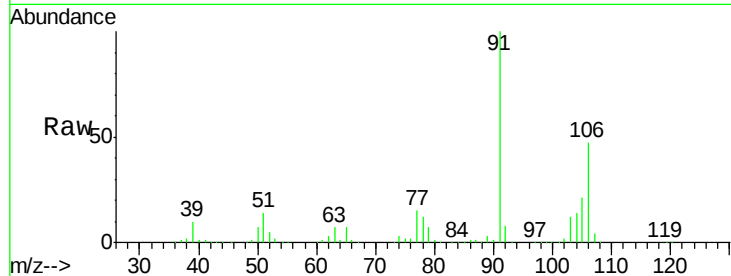
#69
o-Xylene
Concen: 21.84 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.01 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion:106 Resp: 132786
Ion Ratio Lower Upper
106 100
91 208.1 103.1 309.1

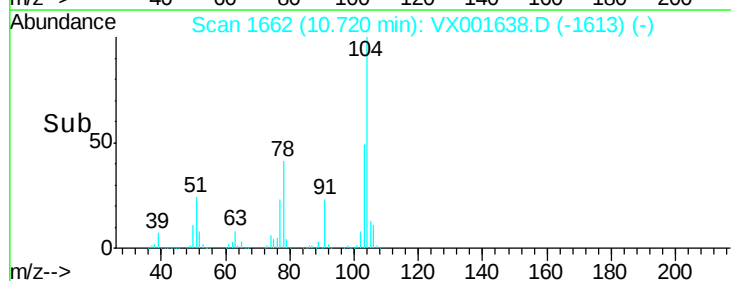
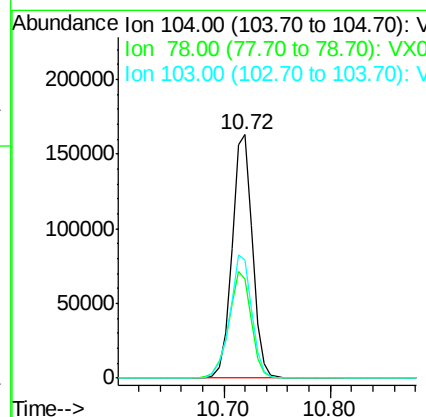
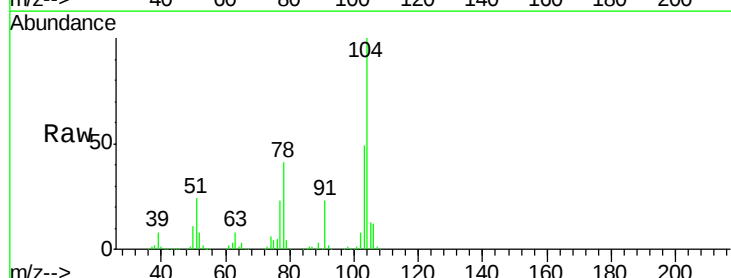
Manual Integrations
APPROVED

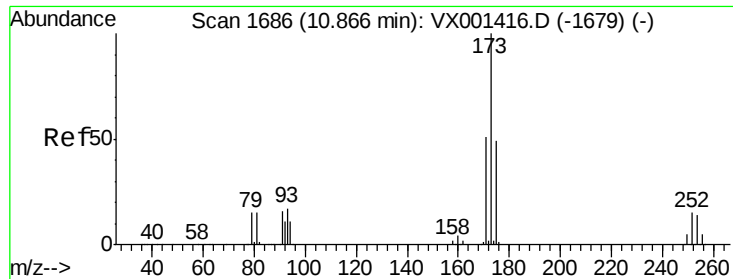
apatel
5/14/2018 3:58:15 PM



#70
Styrene
Concen: 22.20 ug/l
RT: 10.72 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion:104 Resp: 219277
Ion Ratio Lower Upper
104 100
78 47.7 38.6 58.0
103 54.3 44.0 66.0





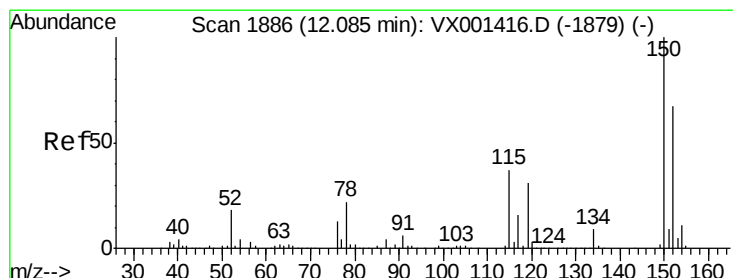
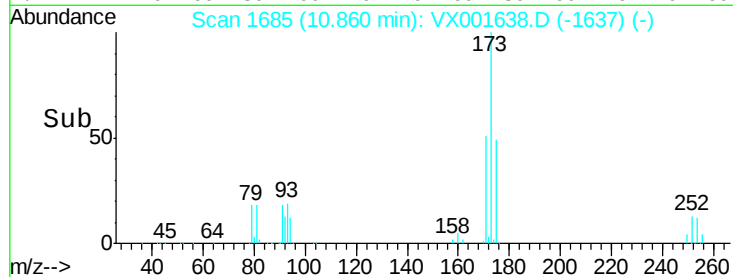
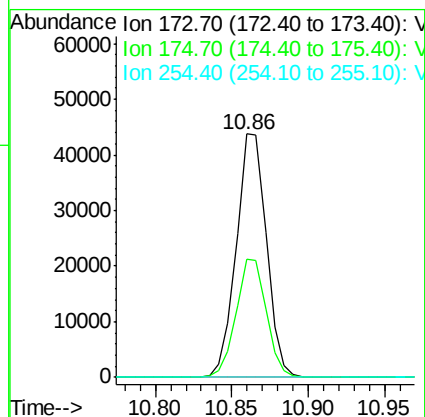
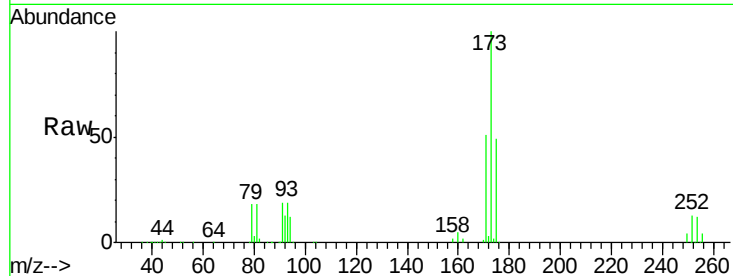
#71
Bromoform
Concen: 20.32 ug/l
RT: 10.86 min Scan# 1685
Delta R.T. -0.01 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion	Ratio	Lower	Upper
173	100		
175	48.7	24.5	73.5
254	0.2	0.2	0.2

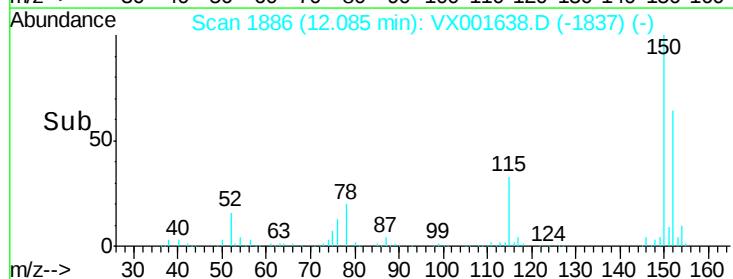
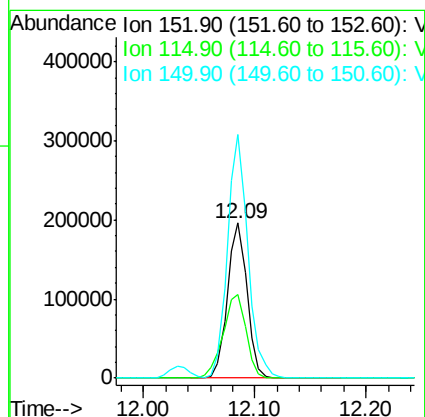
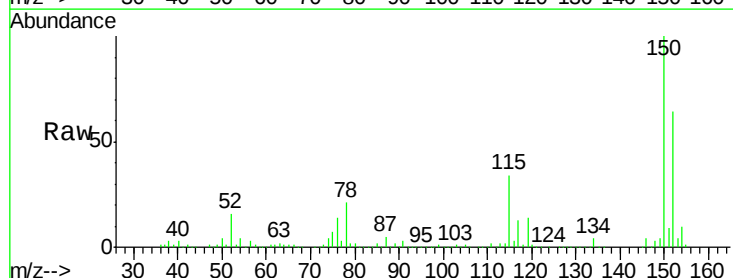
Manual Integrations
APPROVED

apatel
5/14/2018 3:58:15 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.09 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Lower	Upper
152	100		
115	63.5	37.7	113.1
150	164.3	0.0	349.4





#73

Isopropylbenzene

Concen: 22.37 ug/l

RT: 11.02 min Scan# 1712

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

VX0511WBS02

Tot Ion:105 Resp: 367011

Ion Ratio Lower Upper

105 100

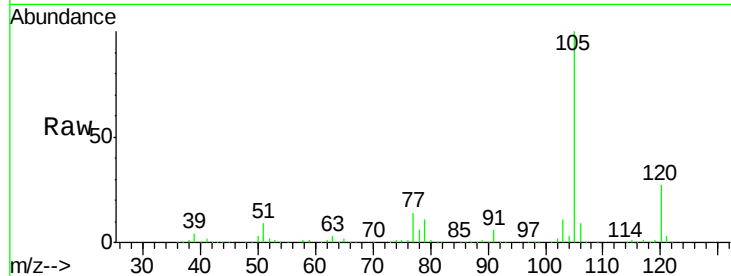
120 27.2 13.6 40.8

Manual Integrations

APPROVED

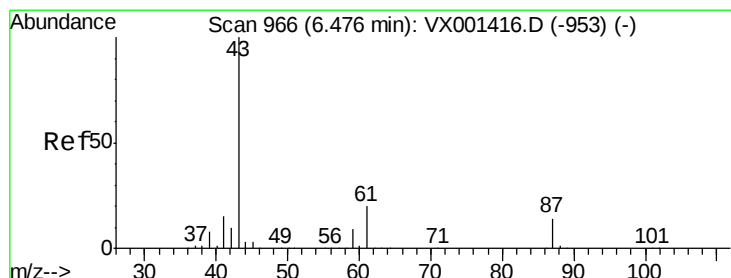
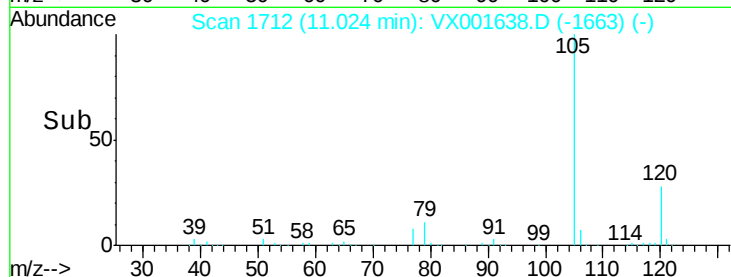
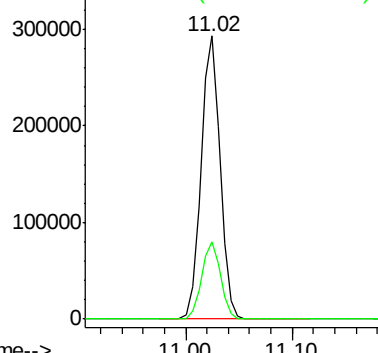
apatel

5/14/2018 3:58:15 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#74

N-ethyl acetate

Concen: 21.39 ug/l

RT: 6.47 min Scan# 965

Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Tgt Ion: 43 Resp: 159425

Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.1 0.1 0.1

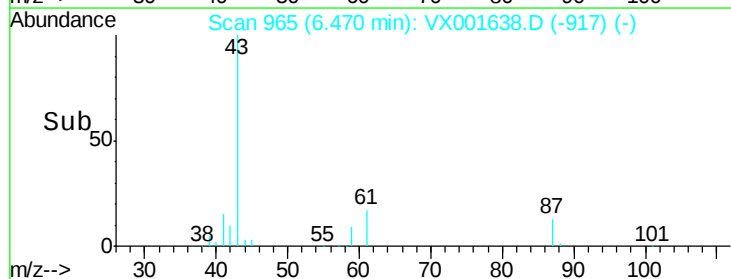
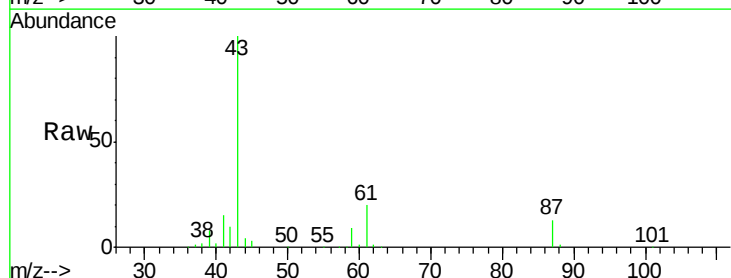
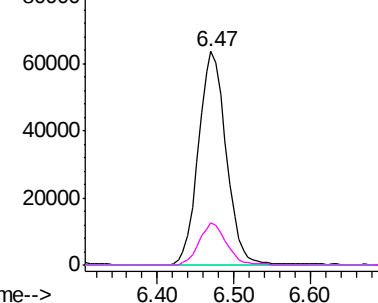
61 19.3 15.4 23.0

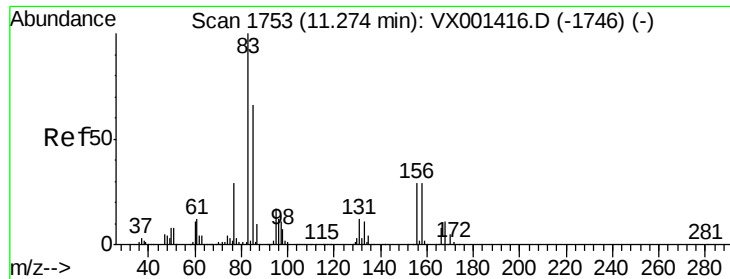
Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 70.00 (69.70 to 70.70): VX0

Ion 55.00 (54.70 to 55.70): VX0

Ion 61.00 (60.70 to 61.70): VX0





#75

1,1,2,2-Tetrachloroethane

Concen: 21.72 ug/l

RT: 11.27 min Scan# 1753

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

VX0511WBS02

Tot Ion: 83 Resp: 105228

Ion Ratio Lower Upper

83 100

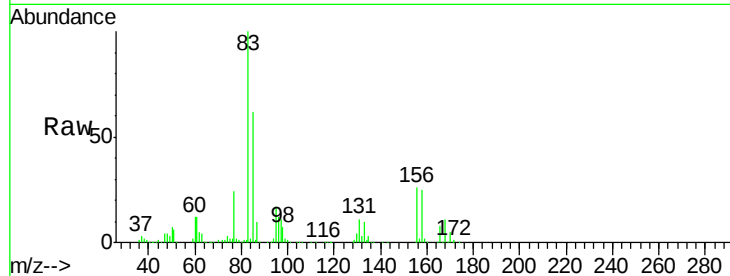
131 11.4 5.8 17.4

85 64.3 32.7 98.1

Manual Integrations
APPROVED

apatel

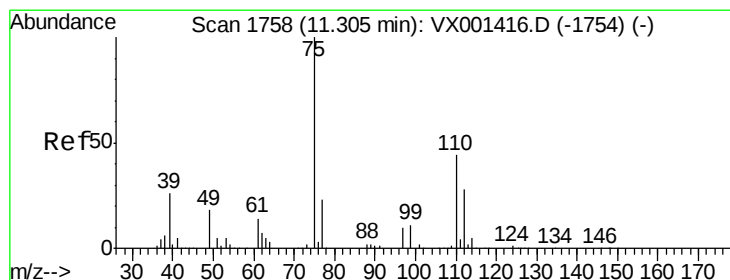
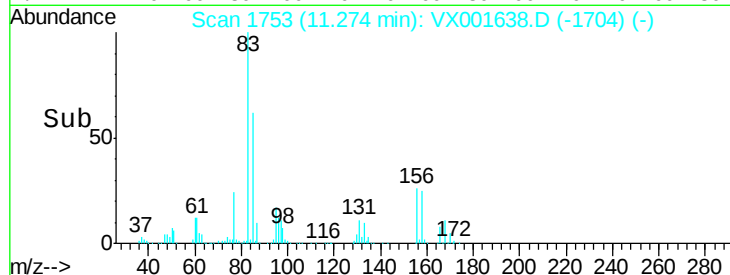
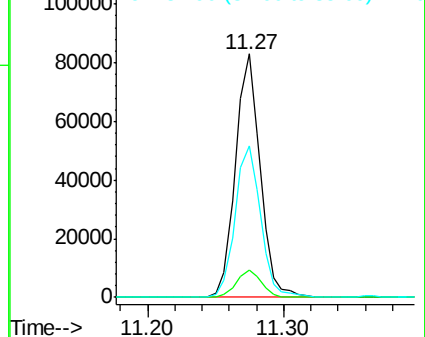
5/14/2018 3:58:15 PM



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.44 ug/l m

RT: 11.30 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VX001638.D

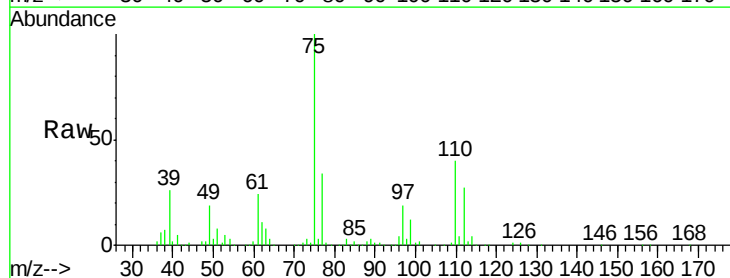
Acq: 11 May 2018 14:38

Tgt Ion: 75 Resp: 103033

Ion Ratio Lower Upper

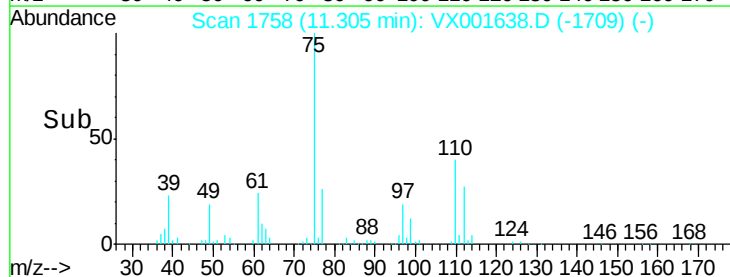
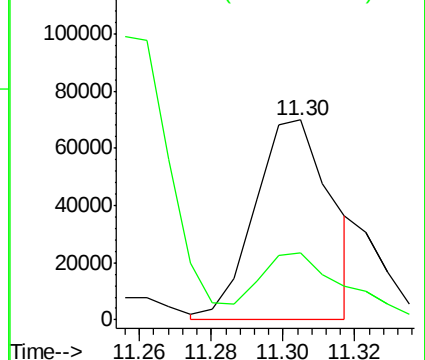
75 100

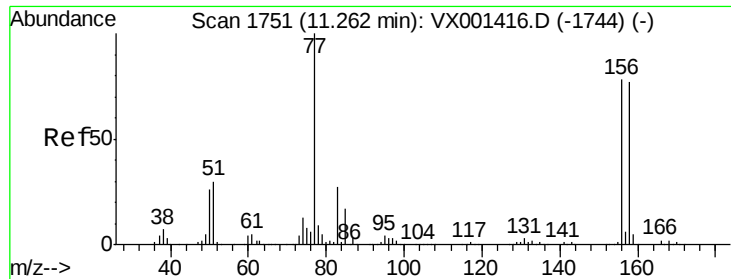
77 37.4 19.6 58.7



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 21.38 ug/l

RT: 11.26 min Scan# 1751

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

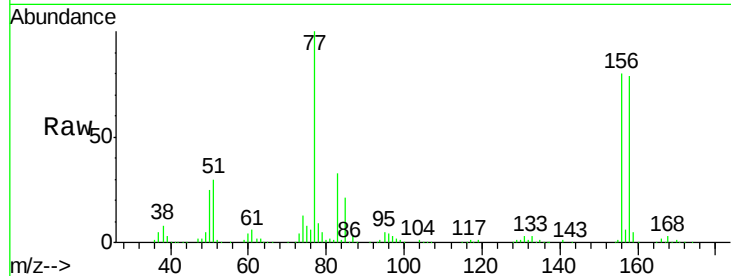
ClientSampleId :

VX0511WBS02

Tot Ion:	156	Resp:	101977
Ion Ratio	Lower	Upper	
156	100		
77	132.4	66.0	198.2
158	97.7	49.4	148.2

Manual Integrations
APPROVED

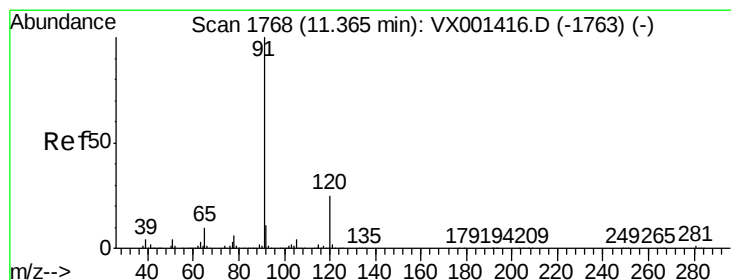
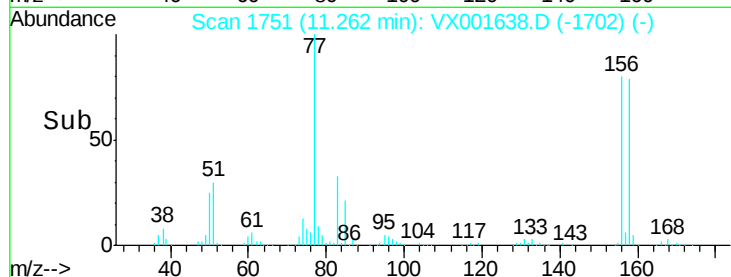
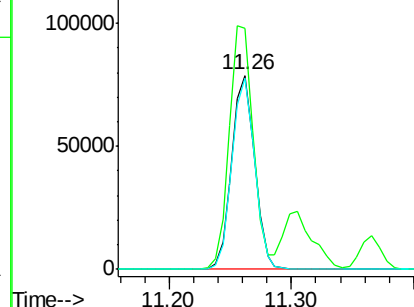
apatel
5/14/2018 3:58:15 PM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 22.81 ug/l

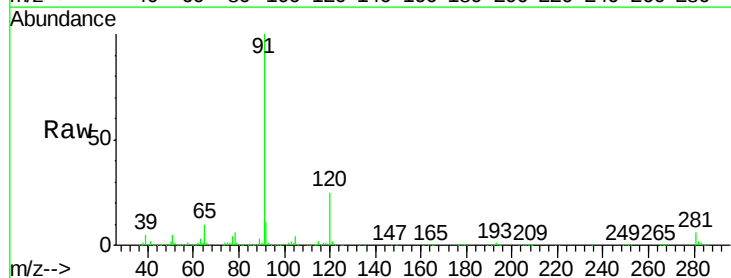
RT: 11.37 min Scan# 1768

Delta R.T. 0.00 min

Lab File: VX001638.D

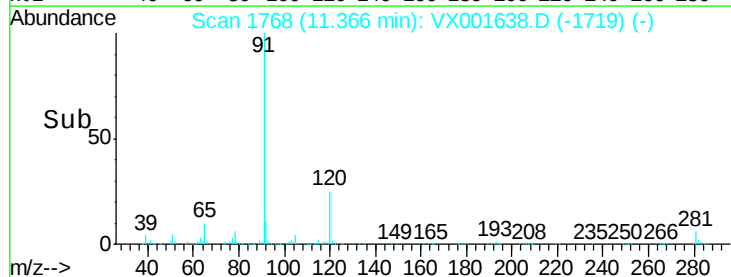
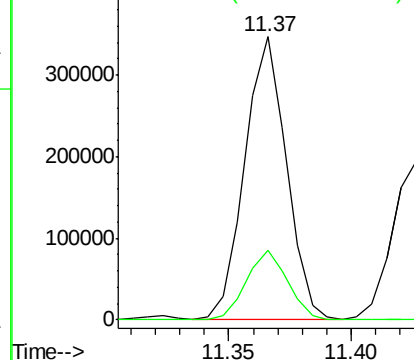
Acq: 11 May 2018 14:38

Tgt Ion:	91	Resp:	407463
Ion Ratio	Lower	Upper	
91	100		
120	24.6	12.5	37.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 22.06 ug/l

RT: 11.43 min Scan# 1778

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampled :

VX0511WBS02

Tot Ion: 91 Resp: 242531

Ion Ratio Lower Upper

91 100

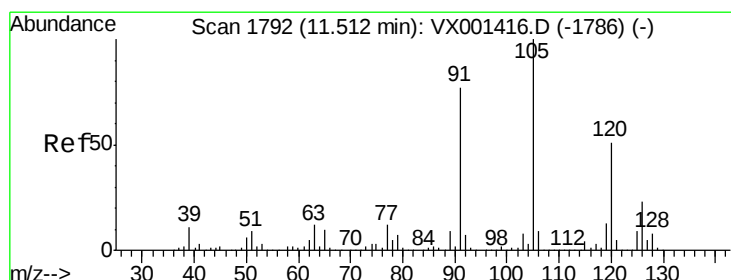
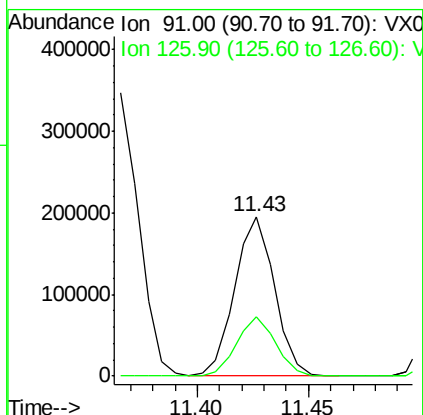
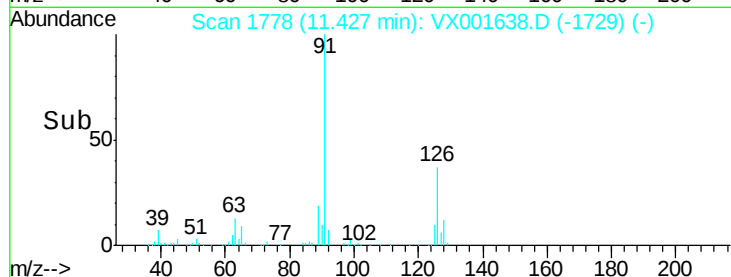
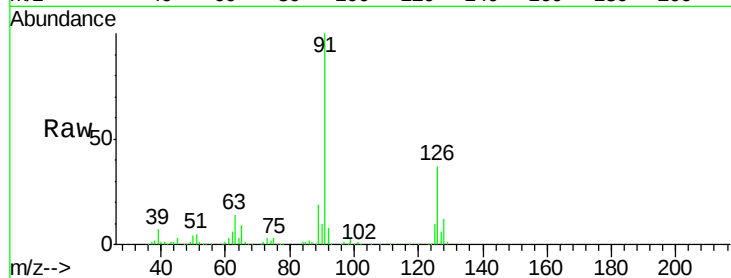
126 36.4 18.1 54.4

Manual Integrations

APPROVED

apatel

5/14/2018 3:58:15 PM



#80

1,3,5-Trimethylbenzene

Concen: 22.40 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX001638.D

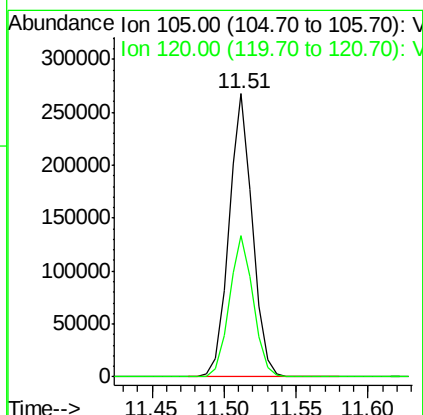
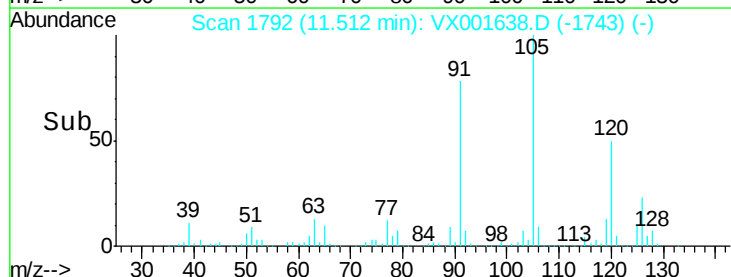
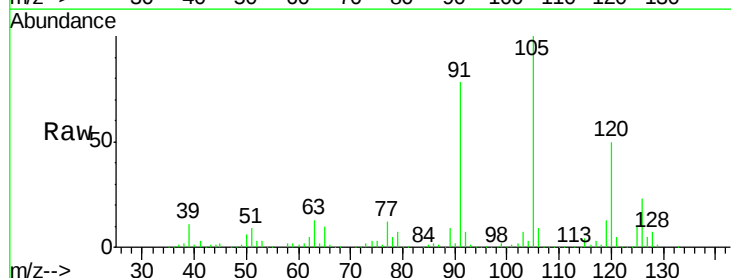
Acq: 11 May 2018 14:38

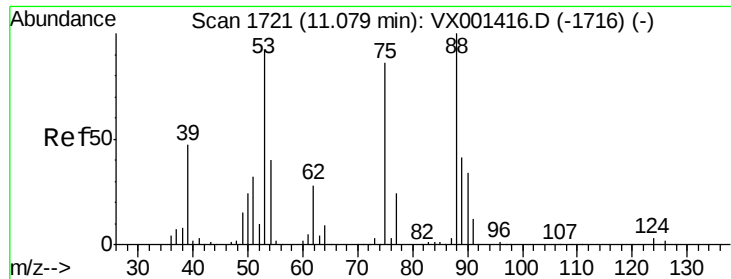
Tgt Ion: 105 Resp: 306013

Ion Ratio Lower Upper

105 100

120 50.9 25.7 77.1





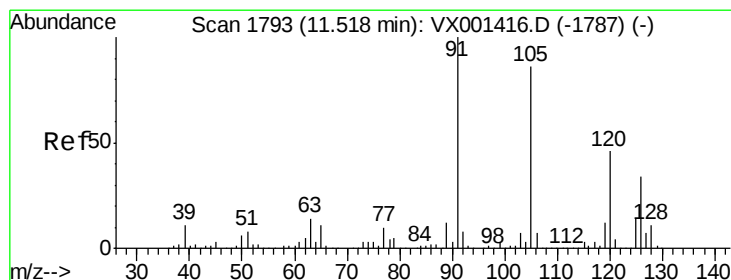
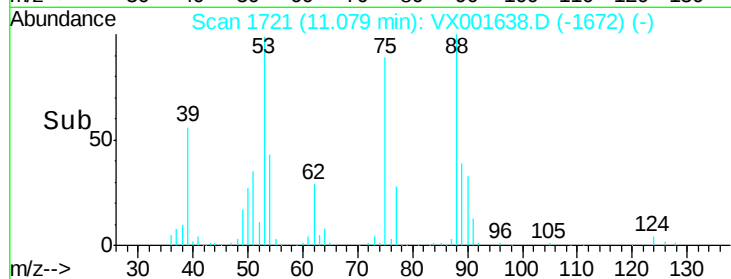
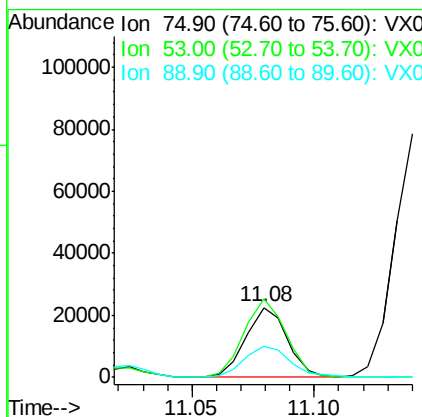
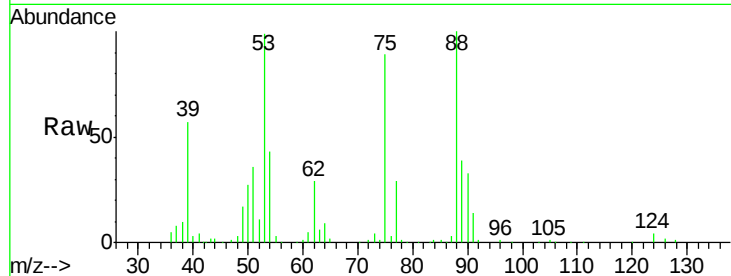
#81
trans-1,4-Dichloro-2-butene
Concen: 20.46 ug/l
RT: 11.08 min Scan# 1721
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampled :
VX0511WBS02

Tot Ion	Ratio	Lower	Upper
75	100		
53	114.1	84.5	126.7
89	50.0	39.5	59.3

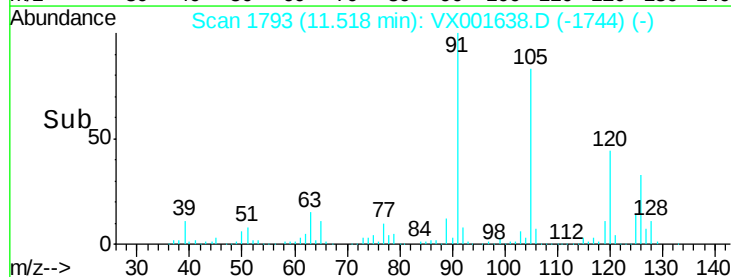
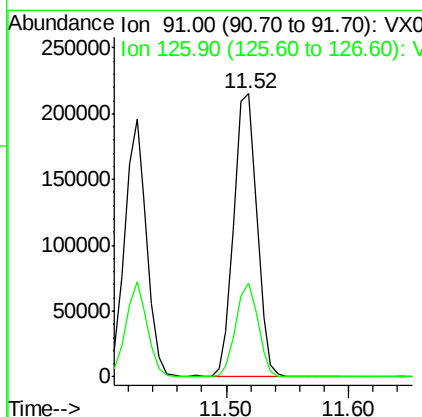
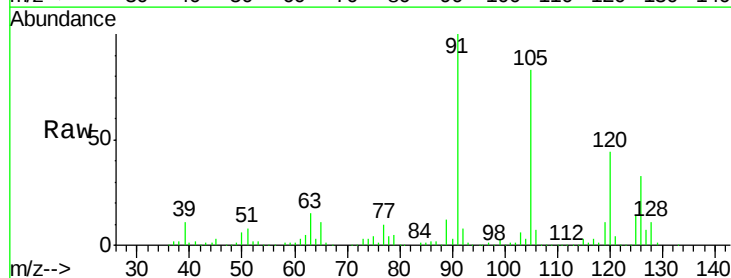
Manual Integrations
APPROVED

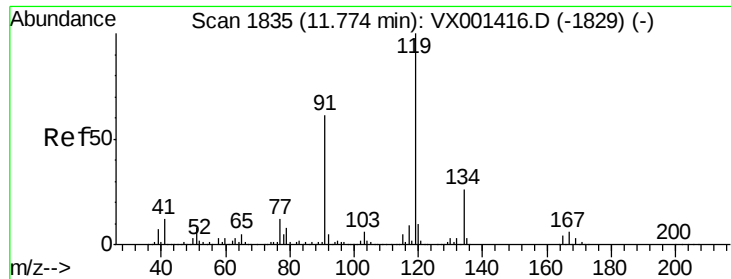
apatel
5/14/2018 3:58:15 PM



#82
4-Chlorotoluene
Concen: 22.08 ug/l
RT: 11.52 min Scan# 1793
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.2	16.2	48.5





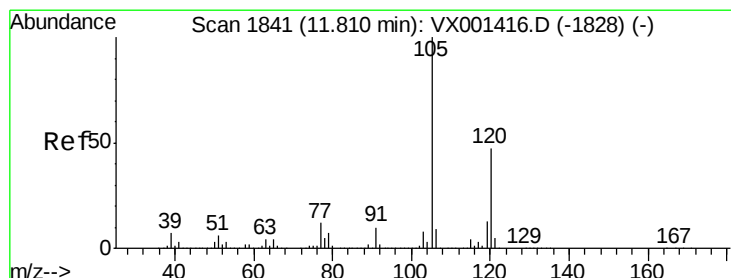
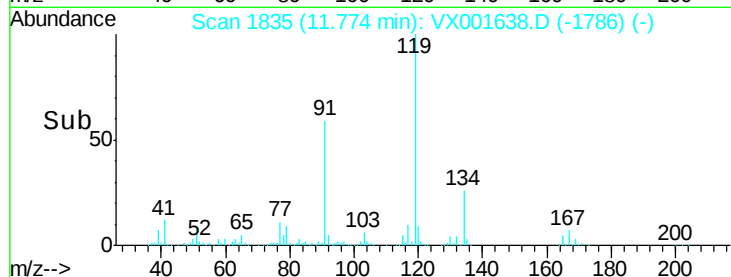
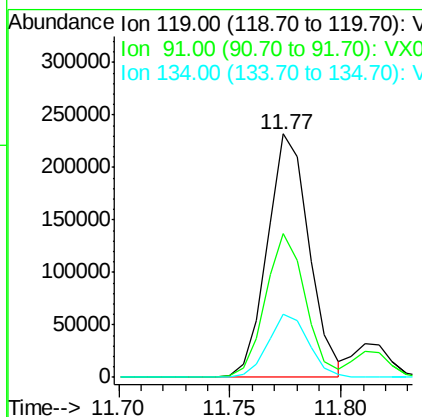
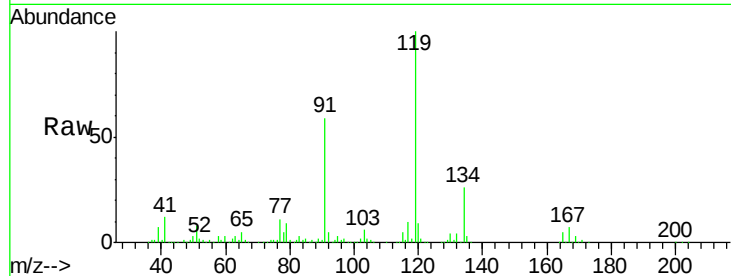
#83
tert-Butylbenzene
Concen: 22.14 ug/l
RT: 11.77 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion	Ratio	Lower	Upper
119	100		
91	56.6	27.8	83.3
134	25.3	12.4	37.0

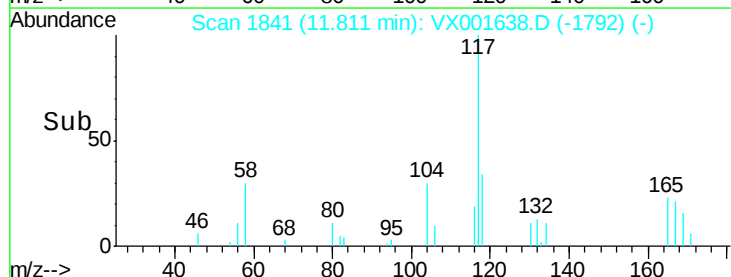
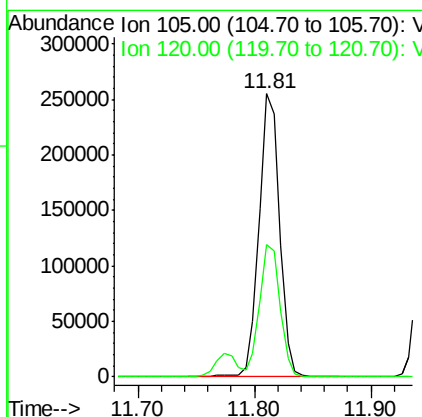
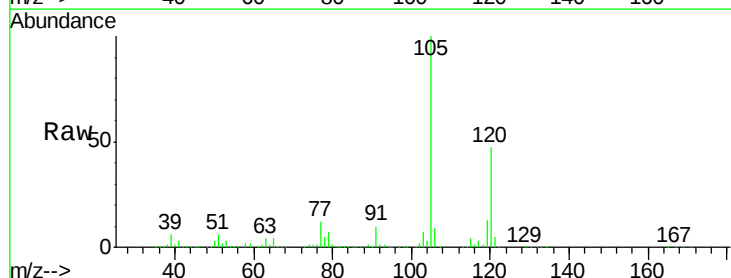
Manual Integrations
APPROVED

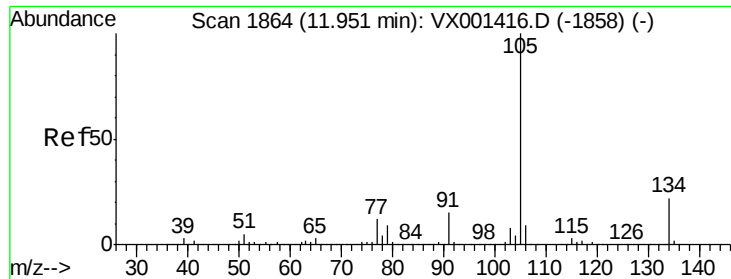
apatel
5/14/2018 3:58:15 PM



#84
1,2,4-Trimethylbenzene
Concen: 22.56 ug/l
RT: 11.81 min Scan# 1841
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.4	70.2





#85

sec-Butylbenzene

Concen: 23.23 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

ClientSampleId :

VX0511WBS02

Tot Ion:105 Resp: 378993

Ion Ratio Lower Upper

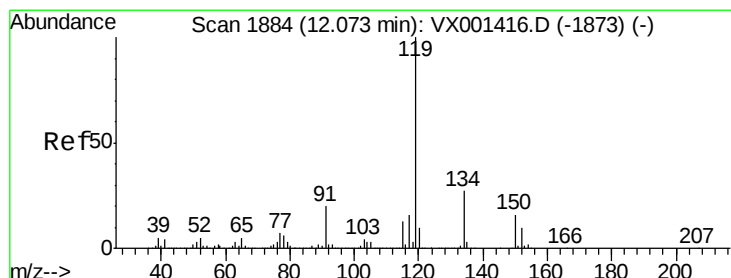
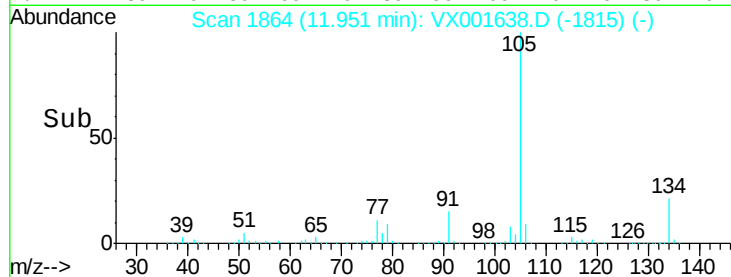
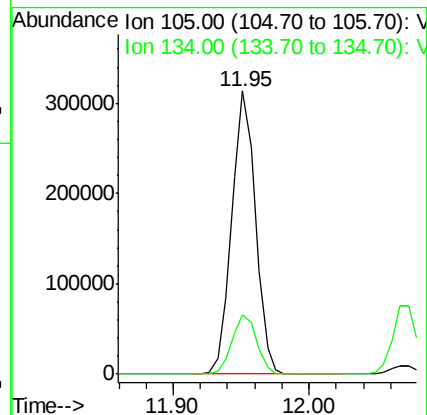
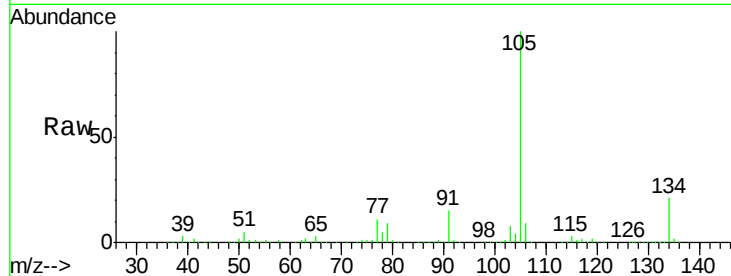
105 100

134 21.6 10.9 32.9

Manual Integrations
APPROVED

apatel

5/14/2018 3:58:15 PM



#86

p-Isopropyltoluene

Concen: 23.20 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. -0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

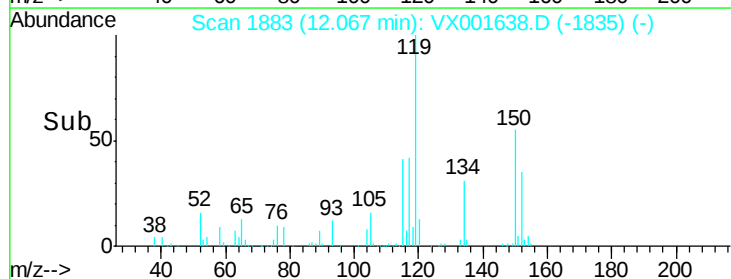
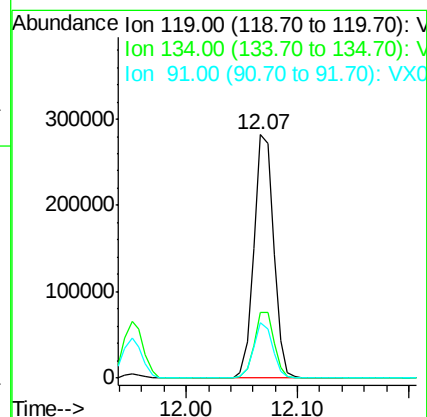
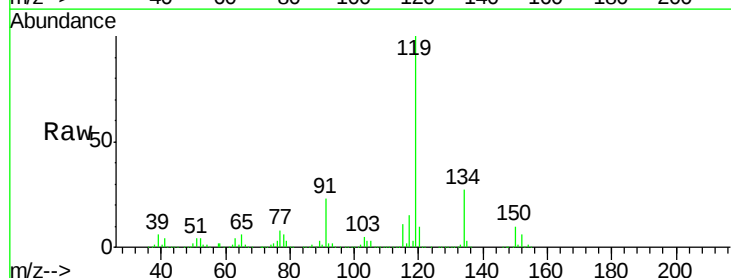
Tgt Ion:119 Resp: 347220

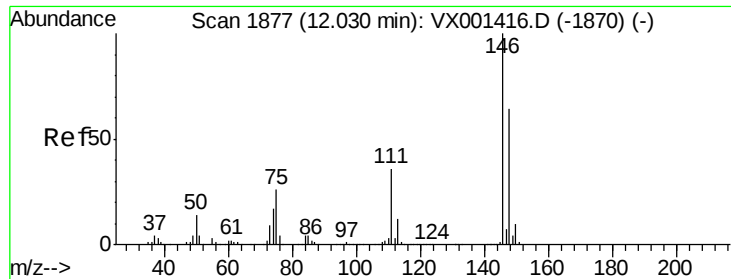
Ion Ratio Lower Upper

119 100

134 27.1 13.6 40.8

91 21.8 10.8 32.3





#87

1,3-Dichlorobenzene

Concen: 21.83 ug/l

RT: 12.03 min Scan# 1877

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

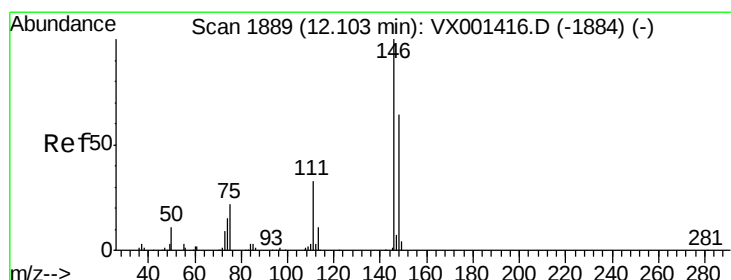
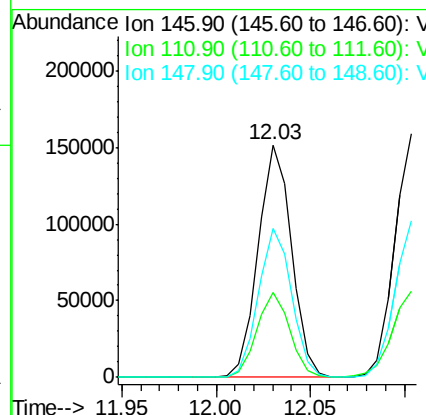
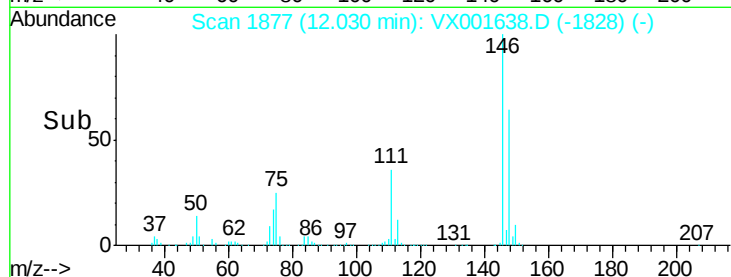
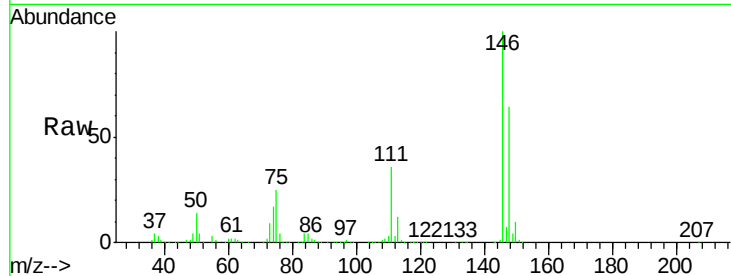
ClientSampleId :

VX0511WBS02

Tot Ion:	146	Resp:	186088
Ion Ratio	Lower	Upper	
146	100		
111	35.9	18.1	54.1
148	63.9	32.1	96.5

Manual Integrations
APPROVED

apatel
5/14/2018 3:58:15 PM



#88

1,4-Dichlorobenzene

Concen: 21.81 ug/l

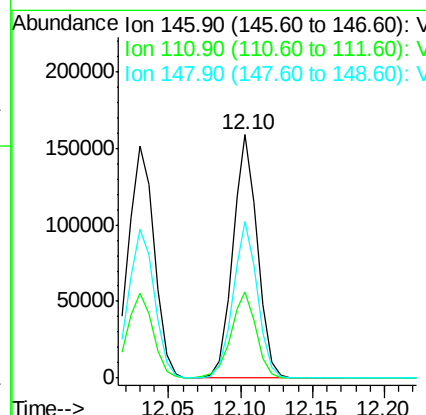
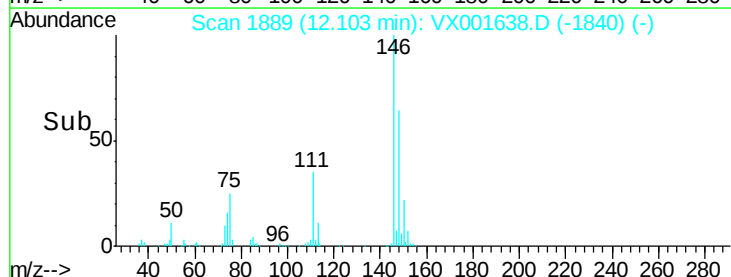
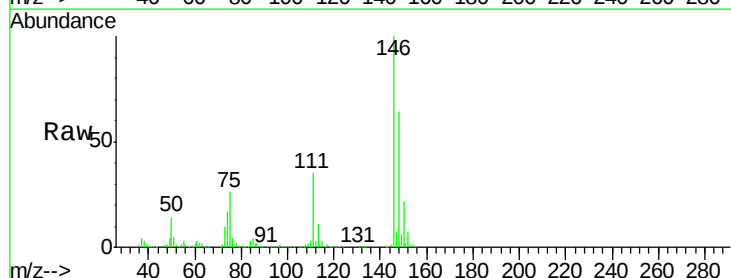
RT: 12.10 min Scan# 1889

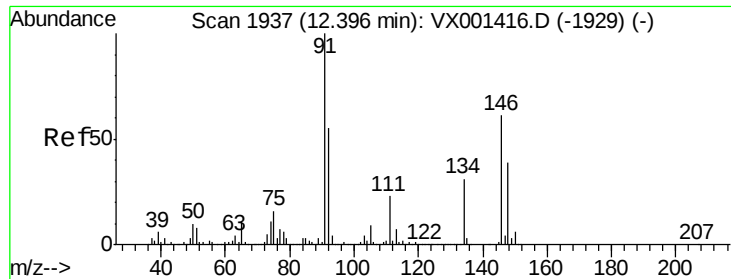
Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Tgt Ion:	146	Resp:	189703
Ion Ratio	Lower	Upper	
146	100		
111	36.4	17.4	52.3
148	63.9	32.2	96.6





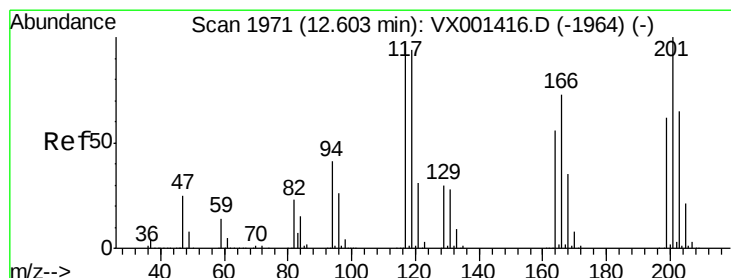
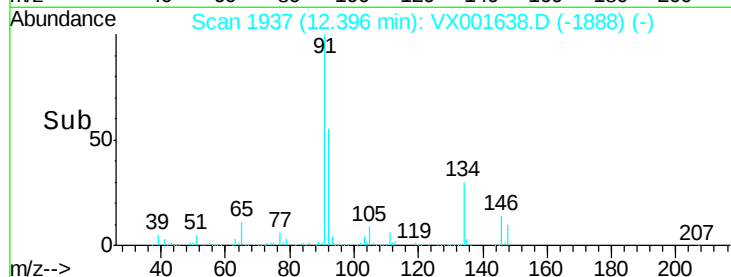
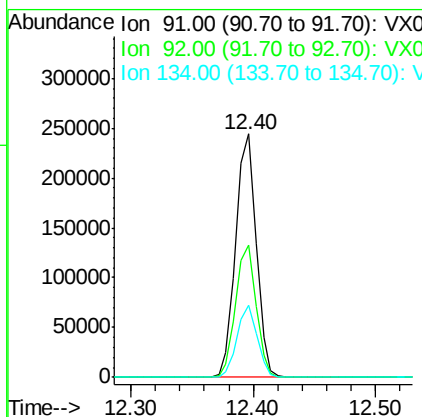
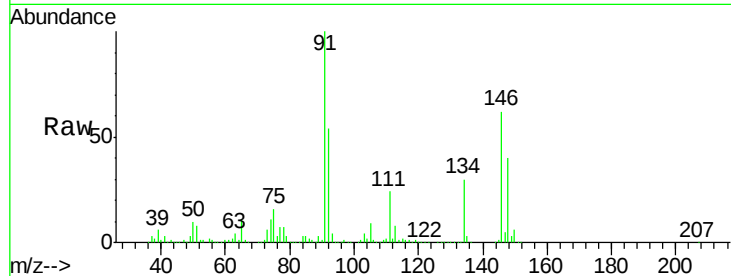
#89
n-Butylbenzene
Concen: 22.75 ug/l
RT: 12.40 min Scan# 1937
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Instrument :
MSVOA_X
ClientSampleId :
VX0511WBS02

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	54.4	27.2	81.5	
134	29.0	14.6	44.0	

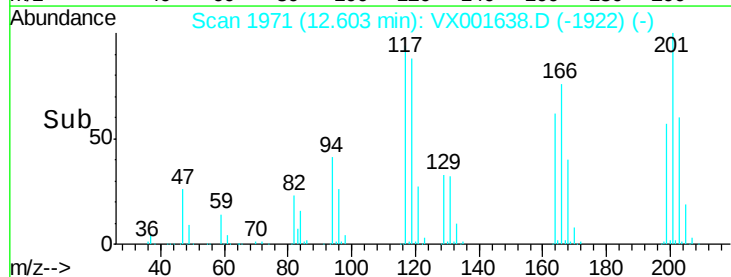
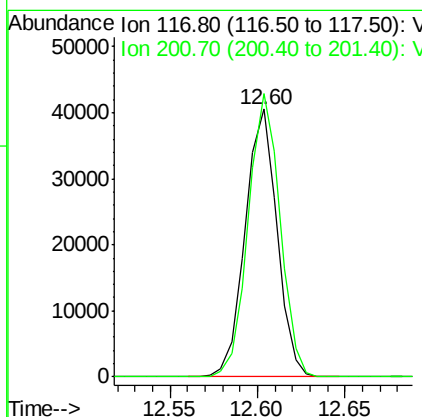
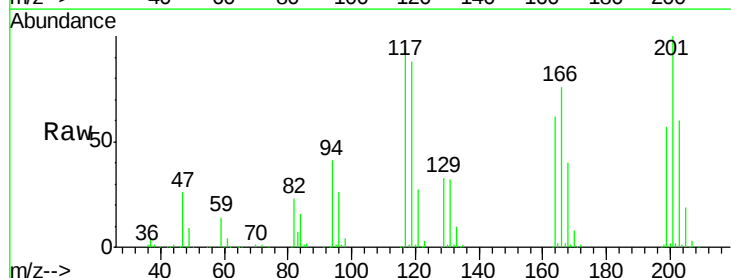
Manual Integrations
APPROVED

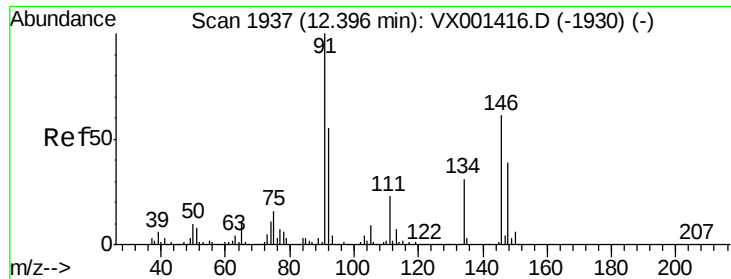
apatel
5/14/2018 3:58:15 PM



#90
Hexachloroethane
Concen: 22.77 ug/l
RT: 12.60 min Scan# 1971
Delta R.T. 0.00 min
Lab File: VX001638.D
Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	105.5	51.5	154.5	





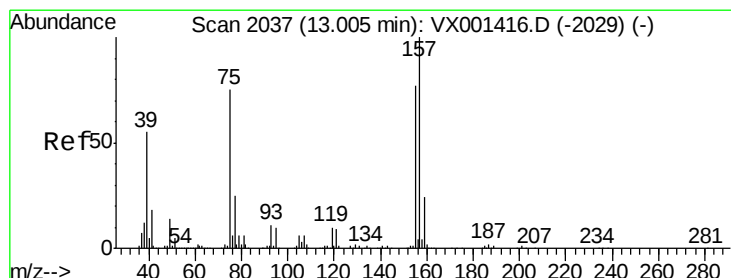
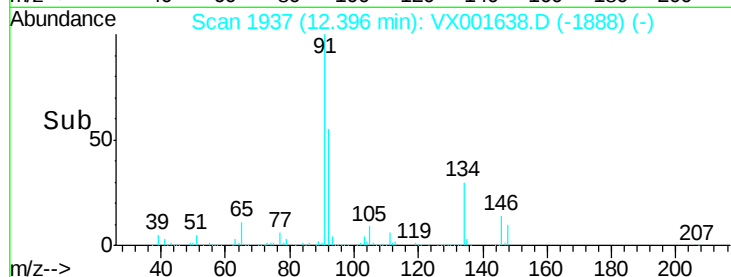
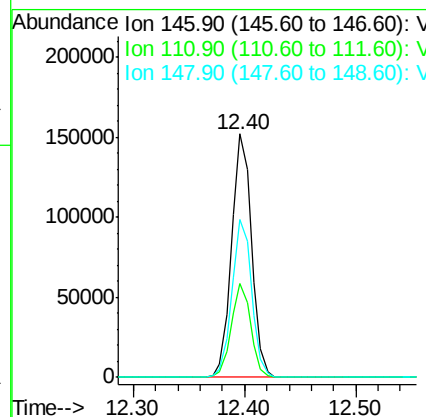
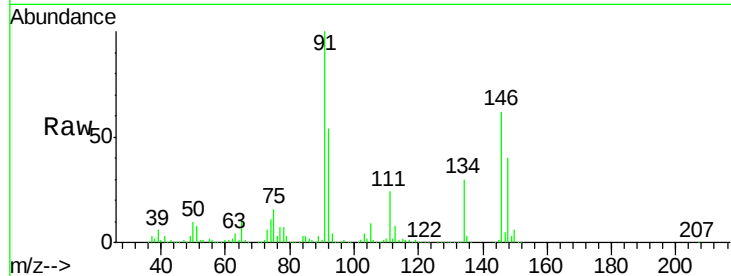
#91
 1,2-Dichlorobenzene
 Concen: 21.69 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. 0.00 min
 Lab File: VX001638.D
 Acq: 11 May 2018 14:38

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0511WBS02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	188152		
111	37.5	18.6	55.8	
148	64.1	32.1	96.5	

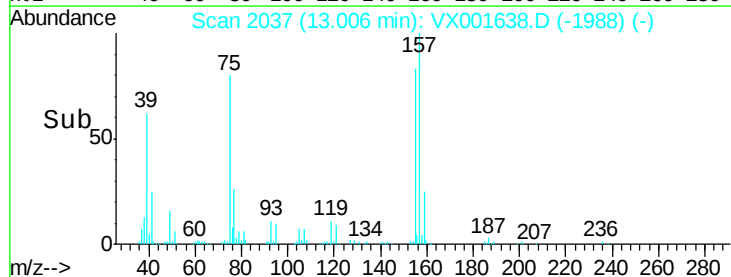
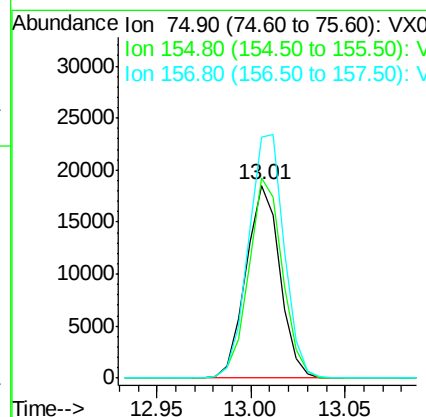
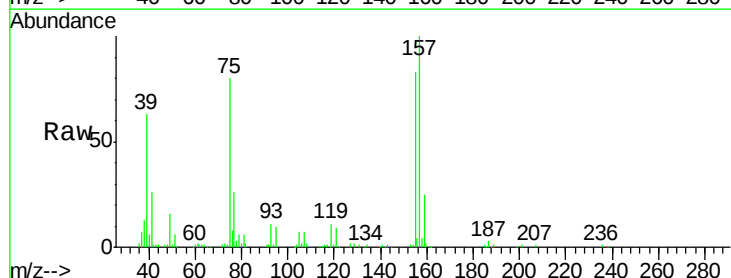
Manual Integrations
 APPROVED

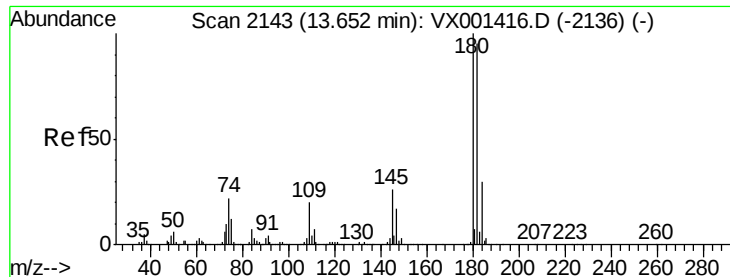
apatel
 5/14/2018 3:58:15 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 21.73 ug/l
 RT: 13.01 min Scan# 2037
 Delta R.T. 0.00 min
 Lab File: VX001638.D
 Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	23133		
155	103.0	53.4	160.2	
157	132.9	68.3	204.8	





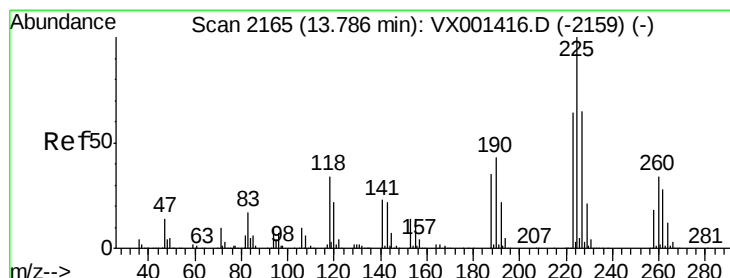
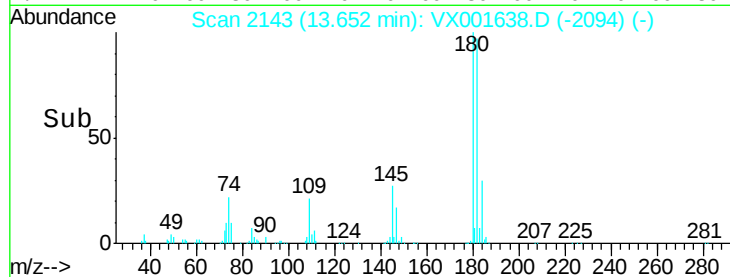
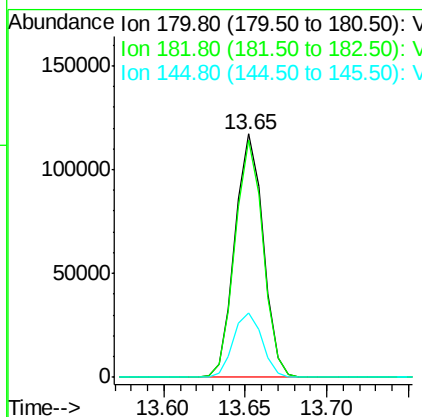
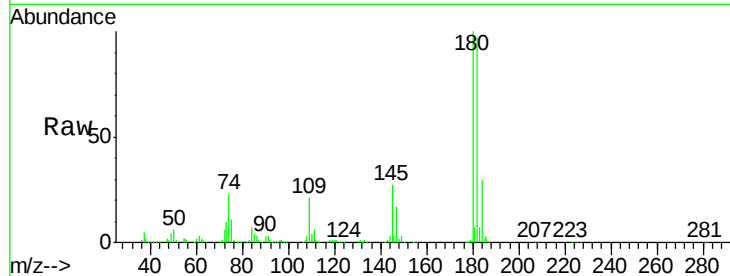
#93
 1,2,4-Trichlorobenzene
 Concen: 22.27 ug/l
 RT: 13.65 min Scan# 2143
 Delta R.T. 0.00 min
 Lab File: VX001638.D
 Acq: 11 May 2018 14:38

Instrument :
 MSVOA_X
 ClientSampleId :
 VX0511WBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	141342		
182	96.4	47.8	143.4	
145	27.0	13.3	39.9	

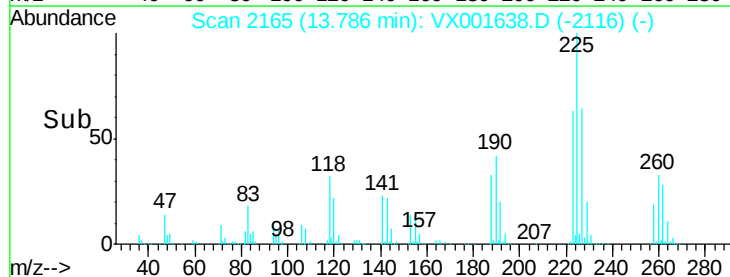
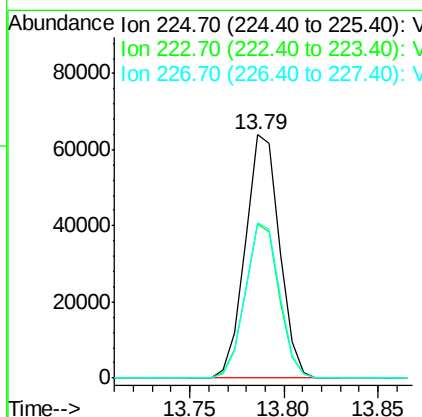
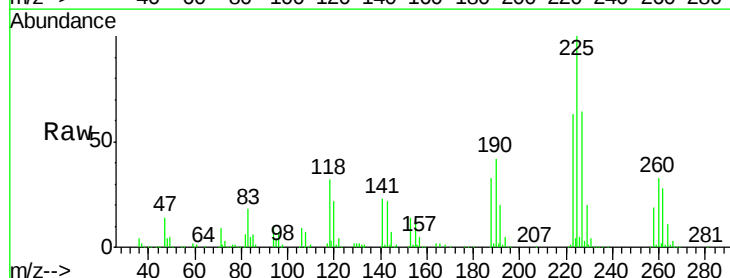
Manual Integrations
 APPROVED

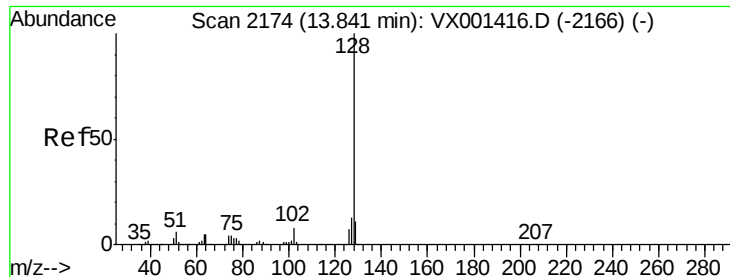
apatel
 5/14/2018 3:58:15 PM



#94
 Hexachlorobutadiene
 Concen: 23.20 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX001638.D
 Acq: 11 May 2018 14:38

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	80586		
223	62.4	31.3	93.9	
227	63.6	32.4	97.2	





#95

Naphthalene

Concen: 21.89 ug/l

RT: 13.84 min Scan# 2174

Delta R.T. 0.00 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Instrument :

MSVOA_X

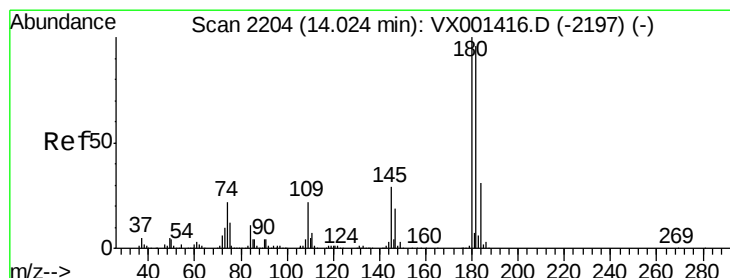
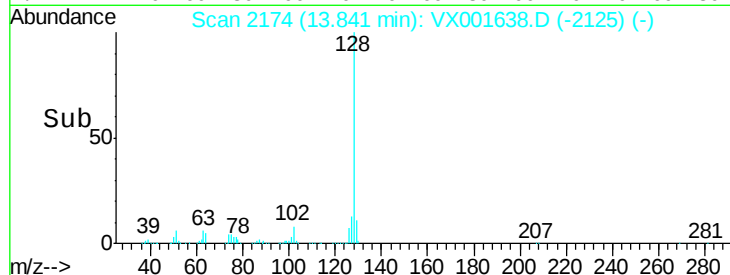
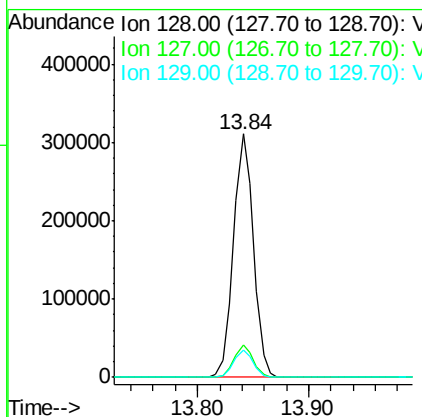
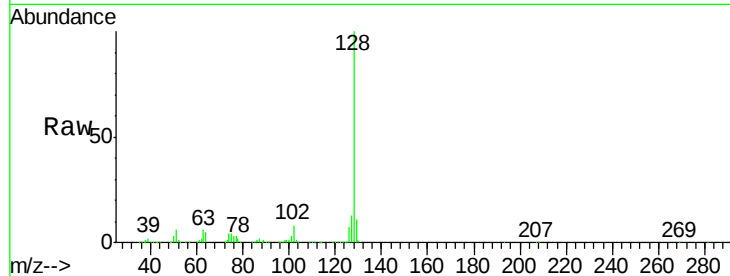
ClientSampleId :

VX0511WBS02

Tot Ion:	128	Resp:	384303
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.4	15.6
129	10.9	8.7	13.1

Manual Integrations
APPROVED

apatel
5/14/2018 3:58:15 PM



#96

1,2,3-Trichlorobenzene

Concen: 22.28 ug/l

RT: 14.03 min Scan# 2205

Delta R.T. 0.01 min

Lab File: VX001638.D

Acq: 11 May 2018 14:38

Tgt Ion:	180	Resp:	145143
Ion Ratio	Lower	Upper	
180	100		
182	96.1	48.0	144.2
145	28.4	14.1	42.4

