

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080618\
 Data File : VX003865.D
 Acq On : 06 Aug 2018 16:53
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/7/2018 1:12:44 PM

Quant Time: Aug 07 07:14:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 06:57:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	361640	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	530731	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	465692	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	241187	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	25646	5.50	ug/l	0.00
Spiked Amount			Recovery	=	11.00%	
35) Dibromofluoromethane	5.49	113	20379	4.95	ug/l	0.00
Spiked Amount			Recovery	=	9.90%	
50) Toluene-d8	8.71	98	79322	4.98	ug/l	0.00
Spiked Amount			Recovery	=	9.96%	
62) 4-Bromofluorobenzene	11.14	95	23114	4.16	ug/l	0.00
Spiked Amount			Recovery	=	8.32%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	15766	4.44	ug/l	98
3) Chloromethane	1.32	50	24114	4.15	ug/l	97
4) Vinyl Chloride	1.40	62	23620	5.12	ug/l	98
5) Bromomethane	1.64	94	17420	7.01	ug/l	97
6) Chloroethane	1.72	64	16211	6.14	ug/l	99
7) Trichlorofluoromethane	1.92	101	32245	5.45	ug/l	100
8) Diethyl Ether	2.19	74	14812	5.75	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	2.38	101	20687	5.53	ug/l	97
10) Methyl Iodide	2.51	142	22846	4.57	ug/l	99
11) Tert butyl alcohol	3.08	59	29926	29.04	ug/l	99
12) 1,1-Dichloroethene	2.37	96	18627	5.14	ug/l	97
13) Acrolein	2.29	56	20425	26.02	ug/l	96
14) Allyl chloride	2.73	41	37256	5.52	ug/l	99
15) Acrylonitrile	3.15	53	68942	28.08	ug/l	100
16) Acetone	2.45	43	73876	29.35	ug/l	98
17) Carbon Disulfide	2.56	76	54534	5.33	ug/l	97
18) Methyl Acetate	2.78	43	31816	5.52	ug/l	99
19) Methyl tert-butyl Ether	3.21	73	68446	5.47	ug/l	99
20) Methylene Chloride	2.86	84	26668	6.07	ug/l	97
21) trans-1,2-Dichloroethene	3.16	96	22155	5.55	ug/l	96
22) Diisopropyl ether	3.87	45	66670	5.19	ug/l	99
23) Vinyl Acetate	3.82	43	270754	25.42	ug/l	99
24) 1,1-Dichloroethane	3.69	63	41060	5.64	ug/l	99
25) 2-Butanone	4.71	43	105071	25.09	ug/l	99
26) 2,2-Dichloropropane	4.59	77	29676	5.93	ug/l	99
27) cis-1,2-Dichloroethene	4.59	96	23963	5.31	ug/l	85
28) Bromochloromethane	5.02	49	17366	5.15	ug/l	99
29) Tetrahydrofuran	5.17	42	53187	24.92	ug/l	99
30) Chloroform	5.21	83	37948	5.08	ug/l	97
31) Cyclohexane	5.57	56	32633	5.17	ug/l	98
32) 1,1,1-Trichloroethane	5.49	97	31788	5.10	ug/l	100
36) 1,1-Dichloropropene	5.80	75	28409	4.94	ug/l	98
37) Ethyl Acetate	4.87	43	31734	4.85	ug/l	97
38) Carbon Tetrachloride	5.78	117	26520	4.64	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080618\
 Data File : VX003865.D
 Acq On : 06 Aug 2018 16:53
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/7/2018 1:12:44 PM

Quant Time: Aug 07 07:14:22 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 06:57:25 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	32205	4.90	ug/l	98
40) Benzene	6.14	78	88253	5.01	ug/l	100
41) Methacrylonitrile	5.07	41	17691	5.01	ug/l	98
42) 1,2-Dichloroethane	6.20	62	30173	5.12	ug/l	99
43) Isopropyl Acetate	6.47	43	46145	4.70	ug/l	99
44) Trichloroethene	7.21	130	24153	5.08	ug/l	89
45) 1,2-Dichloropropane	7.52	63	22367	4.91	ug/l	99
46) Dibromomethane	7.67	93	14359	4.91	ug/l	98
47) Bromodichloromethane	7.90	83	26270	4.75	ug/l	98
48) Methyl methacrylate	7.78	41	22414	4.52	ug/l	98
49) 1,4-Dioxane	7.76	88	11228	95.63	ug/l	96
51) 4-Methyl-2-Pentanone	8.65	43	193059	23.60	ug/l	99
52) Toluene	8.79	92	54881	5.04	ug/l	98
53) t-1,3-Dichloropropene	9.04	75	28113	4.65	ug/l	94
54) cis-1,3-Dichloropropene	8.44	75	31609	4.79	ug/l	98
55) 1,1,2-Trichloroethane	9.22	97	22602	4.95	ug/l	97
56) Ethyl methacrylate	9.18	69	29135	4.55	ug/l	98
57) 1,3-Dichloropropane	9.37	76	37987	5.12	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.32	63	73100	22.35	ug/l	99
59) 2-Hexanone	9.50	43	142684	22.87	ug/l	96
60) Dibromochloromethane	9.59	129	18791	4.23	ug/l	98
61) 1,2-Dibromoethane	9.68	107	21769	4.68	ug/l	99
64) Tetrachloroethene	9.34	164	22847	5.30	ug/l	96
65) Chlorobenzene	10.14	112	60025	5.17	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.23	131	19547	4.80	ug/l	98
67) Ethyl Benzene	10.25	91	91808	4.92	ug/l	96
68) m/p-Xylenes	10.36	106	72657	9.98	ug/l	96
69) o-Xylene	10.70	106	31330	4.48	ug/l	94
70) Styrene	10.71	104	49329	4.29	ug/l	98
71) Bromoform	10.86	173	12352	3.73	ug/l #	100
73) Isopropylbenzene	11.02	105	82005	5.09	ug/l	96
74) N-amyl acetate	6.47	43	46145	5.84	ug/l #	99
75) 1,1,2,2-Tetrachloroethane	11.27	83	30355	5.38	ug/l	100
76) 1,2,3-Trichloropropane	11.30	75	26031m	5.32	ug/l	
77) Bromobenzene	11.26	156	22854	5.19	ug/l	99
78) n-propylbenzene	11.36	91	93462	5.21	ug/l	100
79) 2-Chlorotoluene	11.42	91	58269	5.32	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	67699	5.14	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.08	75	6975	4.45	ug/l #	84
82) 4-Chlorotoluene	11.51	91	67974	5.36	ug/l	98
83) tert-Butylbenzene	11.77	119	67560	5.07	ug/l	99
84) 1,2,4-Trimethylbenzene	11.81	105	68793	5.07	ug/l	100
85) sec-Butylbenzene	11.95	105	81388	5.22	ug/l	100
86) p-Isopropyltoluene	12.07	119	71135	5.06	ug/l	98
87) 1,3-Dichlorobenzene	12.02	146	42754	5.19	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	45073	5.30	ug/l	97
89) n-Butylbenzene	12.39	91	58614	4.84	ug/l	98
90) Hexachloroethane	12.60	117	10968	4.82	ug/l	98
91) 1,2-Dichlorobenzene	12.40	146	42400	5.05	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	5731	4.60	ug/l	97

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX080618\
Data File : VX003865.D
Acq On : 06 Aug 2018 16:53
Operator : JC/MD
Sample : VSTDICC005
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

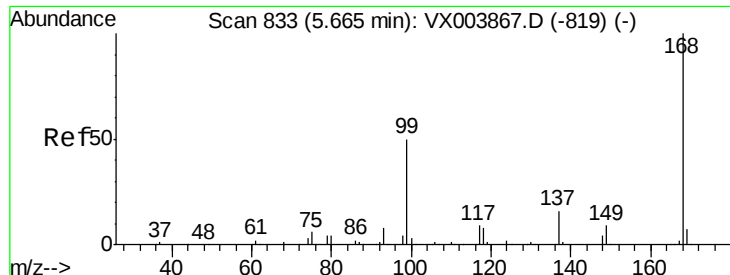
Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM

Quant Time: Aug 07 07:14:22 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X080618W.M
Quant Title : SW846 8260
QLast Update : Tue Aug 07 06:57:25 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	28306	4.76	ug/l	99
94) Hexachlorobutadiene	13.79	225	13840	4.81	ug/l	99
95) Naphthalene	13.83	128	78473	4.55	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	29641	4.82	ug/l	98

(#) = 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. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 361640

Ion Ratio Lower Upper

168 100

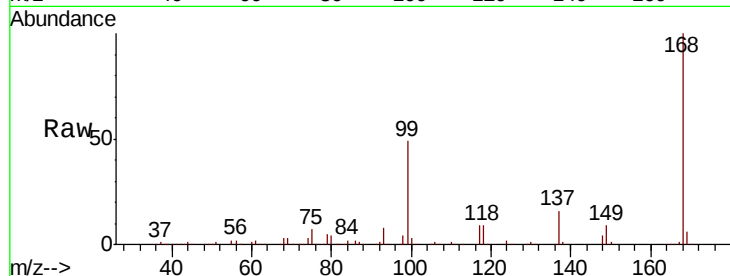
99 49.4 40.1 60.1

Manual Integrations

APPROVED

MMDadoda

8/7/2018 1:12:44 PM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

150000

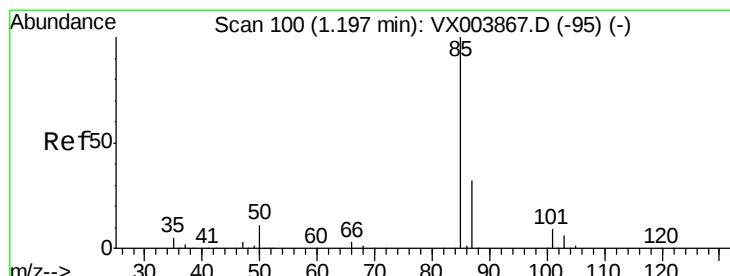
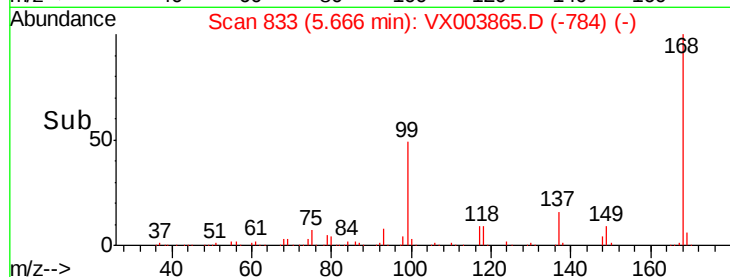
100000

50000

0

Time-->

5.50 5.60 5.70 5.80 5.90



#2

Dichlorodifluoromethane

Concen: 4.44 ug/l

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003865.D

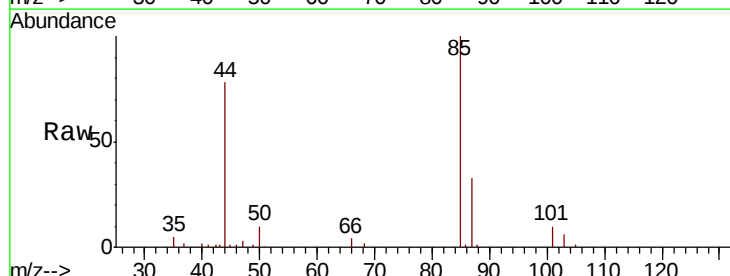
Acq: 06 Aug 2018 16:53

Tgt Ion: 85 Resp: 15766

Ion Ratio Lower Upper

85 100

87 33.3 16.0 48.0



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

15000

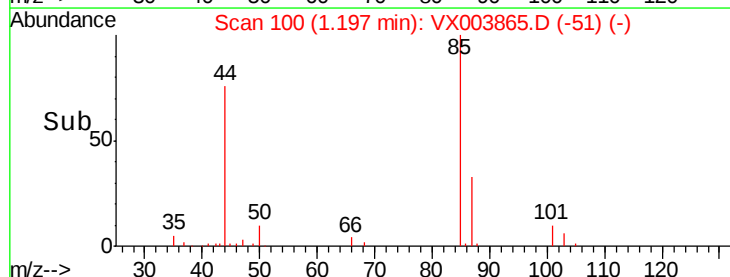
10000

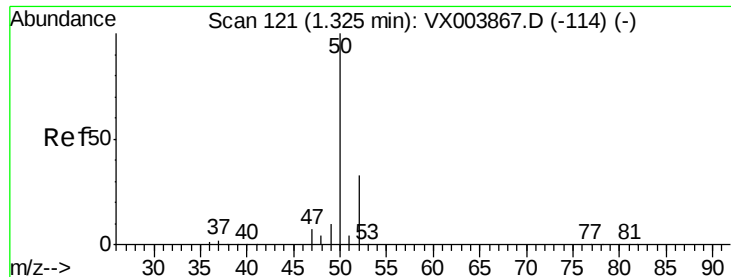
5000

0

Time-->

1.15 1.20 1.25





#3

Chloromethane

Concen: 4.15 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 24114

Ion Ratio Lower Upper

50 100

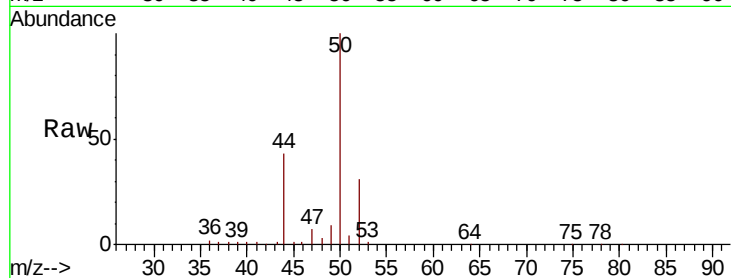
52 31.4 26.6 39.8

Manual Integrations

APPROVED

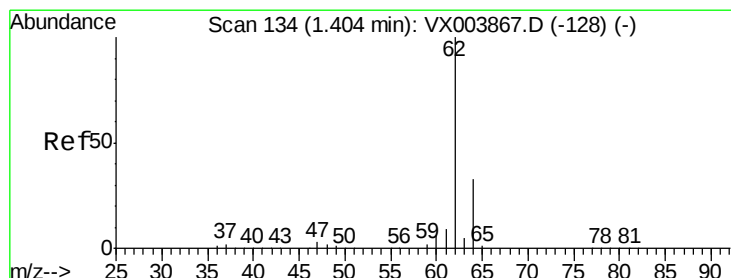
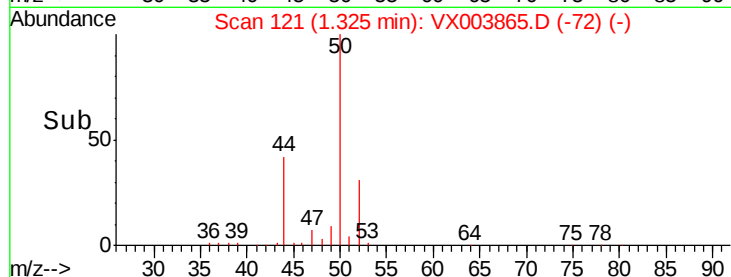
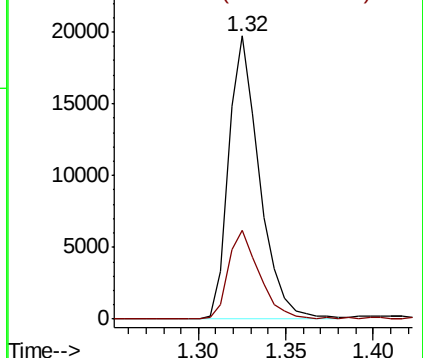
MMDadoda

8/7/2018 1:12:44 PM



Abundance Ion 49.90 (49.60 to 50.60): VX0

Ion 51.90 (51.60 to 52.60): VX0



#4

Vinyl Chloride

Concen: 5.12 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX003865.D

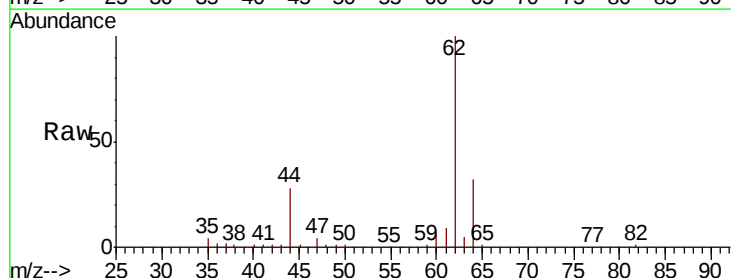
Acq: 06 Aug 2018 16:53

Tgt Ion: 62 Resp: 23620

Ion Ratio Lower Upper

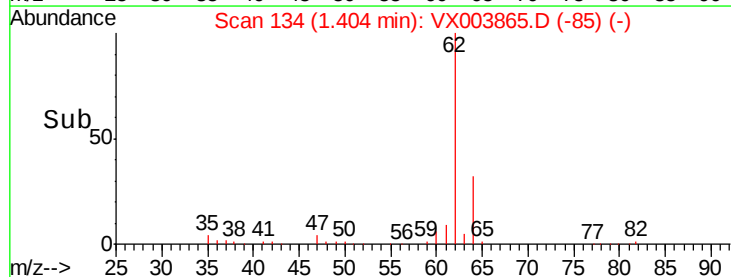
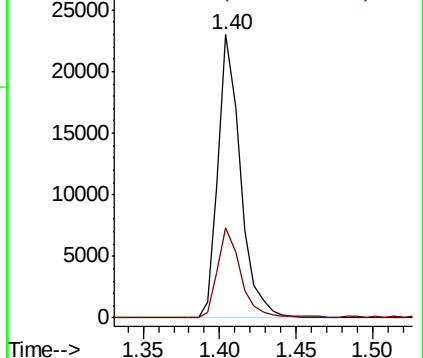
62 100

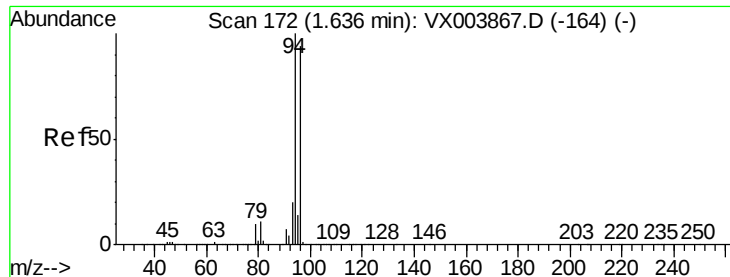
64 31.6 26.0 39.0



Abundance Ion 61.90 (61.60 to 62.60): VX0

Ion 63.90 (63.60 to 64.60): VX0





#5

Bromomethane

Concen: 7.01 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 17420

Ion Ratio Lower Upper

94 100

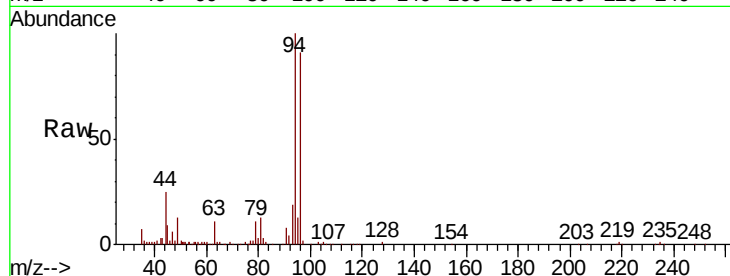
96 91.0 75.2 112.8

Manual Integrations

APPROVED

MMDadoda

8/7/2018 1:12:44 PM



Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

20000

15000

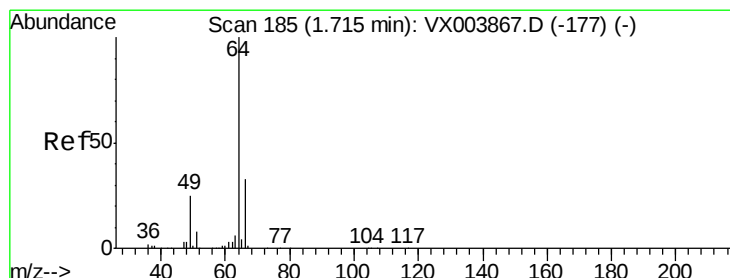
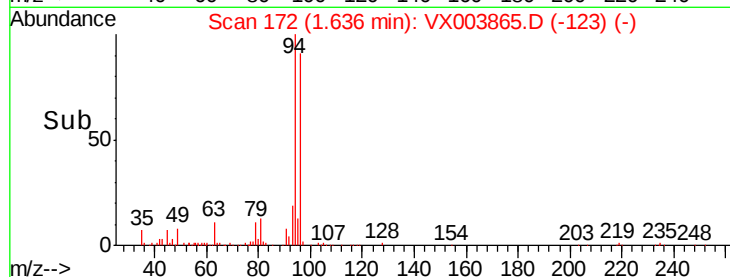
10000

5000

0

1.55 1.60 1.65 1.70

Time-->



#6

Chloroethane

Concen: 6.14 ug/l

RT: 1.72 min Scan# 185

Delta R.T. 0.00 min

Lab File: VX003865.D

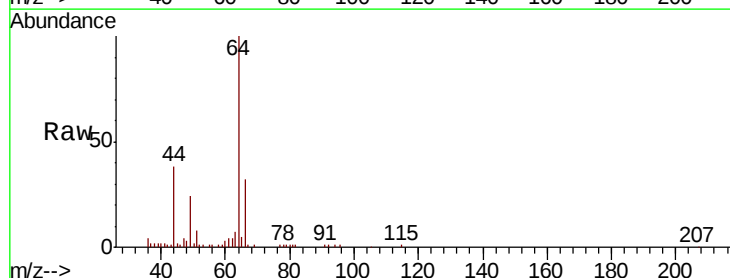
Acq: 06 Aug 2018 16:53

Tgt Ion: 64 Resp: 16211

Ion Ratio Lower Upper

64 100

66 32.6 26.5 39.7



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

15000

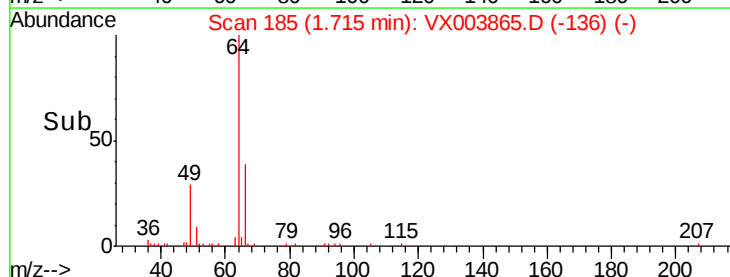
10000

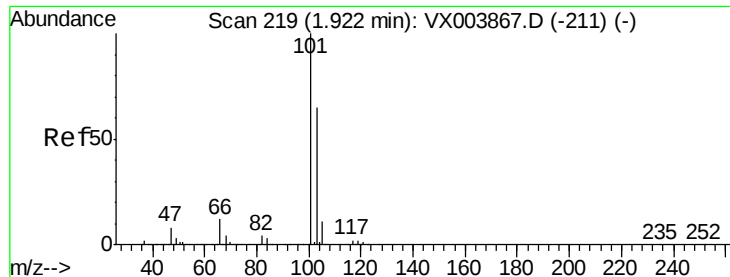
5000

0

1.65 1.70 1.75 1.80

Time-->





#7

Trichlorofluoromethane

Concen: 5.45 ug/l

RT: 1.92 min Scan# 219

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:101 Resp: 32245

Ion Ratio Lower Upper

101 100

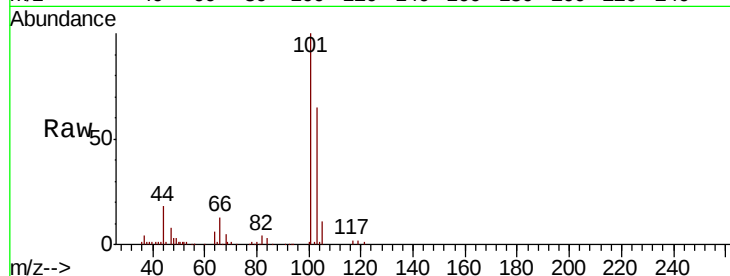
103 65.5 52.3 78.5

Manual Integrations

APPROVED

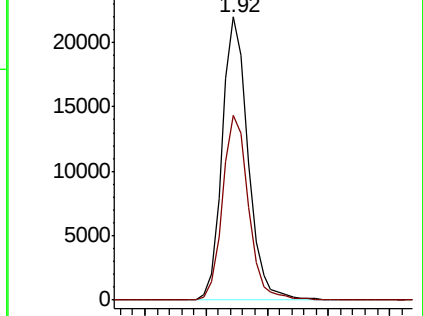
MMDadoda

8/7/2018 1:12:44 PM

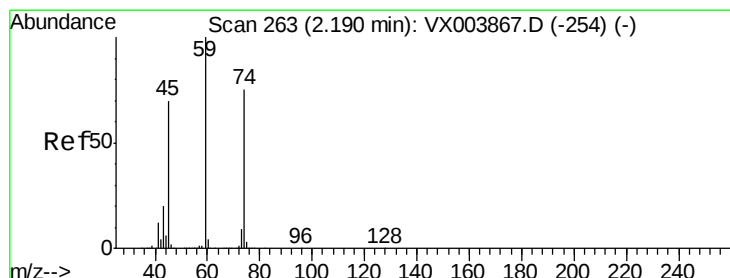
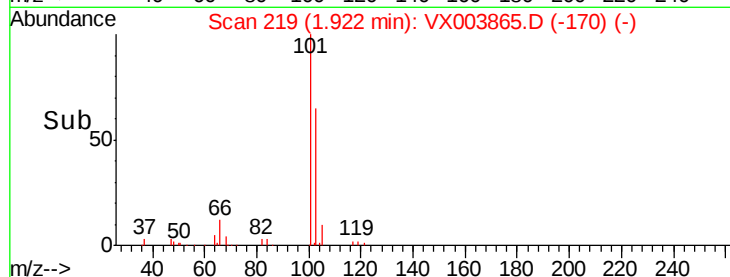


Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



Time-->



#8

Diethyl Ether

Concen: 5.75 ug/l

RT: 2.19 min Scan# 263

Delta R.T. 0.00 min

Lab File: VX003865.D

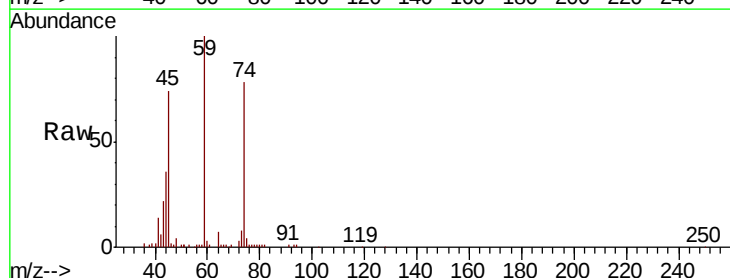
Acq: 06 Aug 2018 16:53

Tgt Ion: 74 Resp: 14812

Ion Ratio Lower Upper

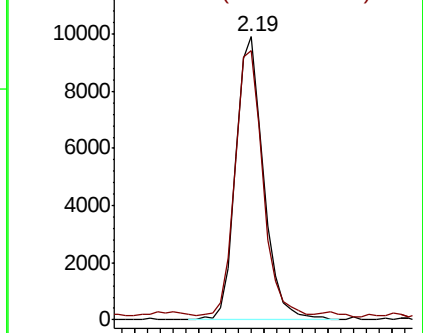
74 100

45 93.9 48.3 144.9

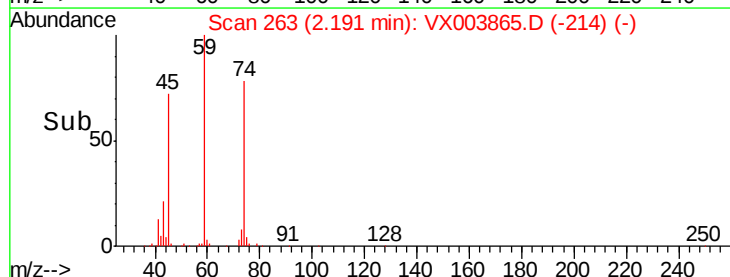


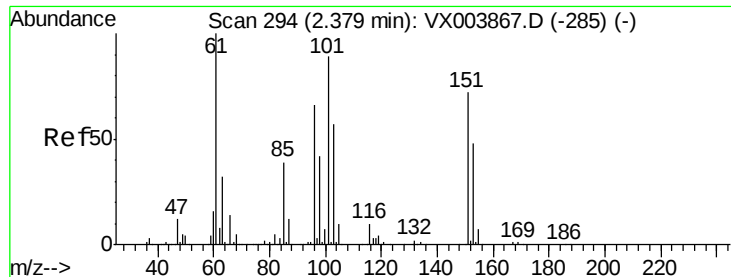
Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0



Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.53 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

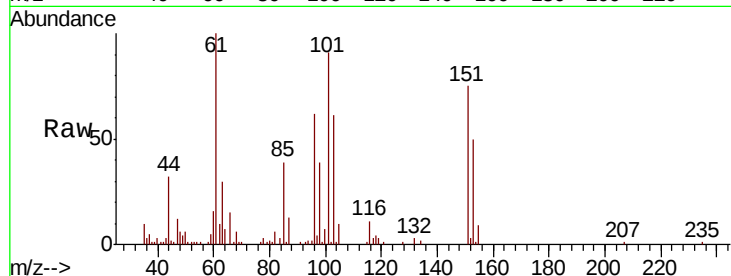
ClientSampleId :

VSTDIC005

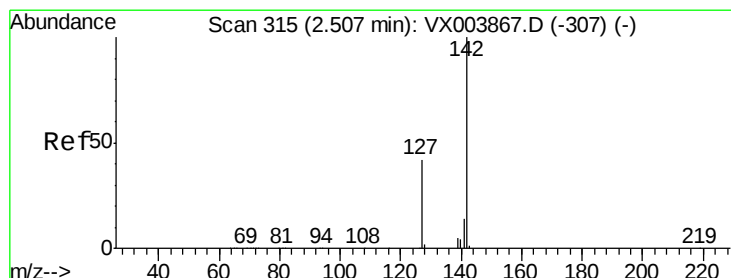
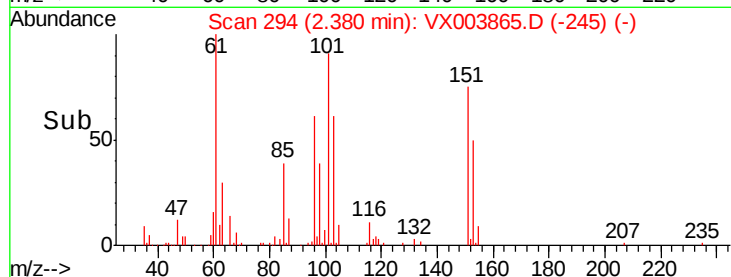
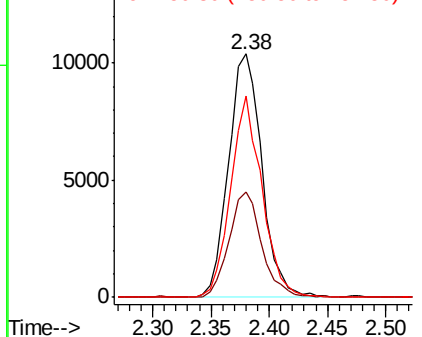
Tot Ion:	101	Resp:	20687
Ion Ratio	Lower	Upper	
101	100		
85	42.6	34.2	51.4
151	77.8	65.0	97.4

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): VX
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 4.57 ug/l

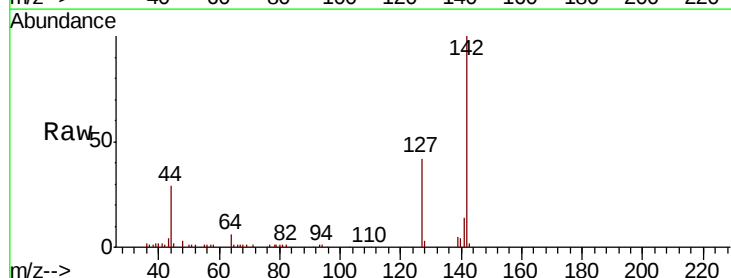
RT: 2.51 min Scan# 315

Delta R.T. 0.00 min

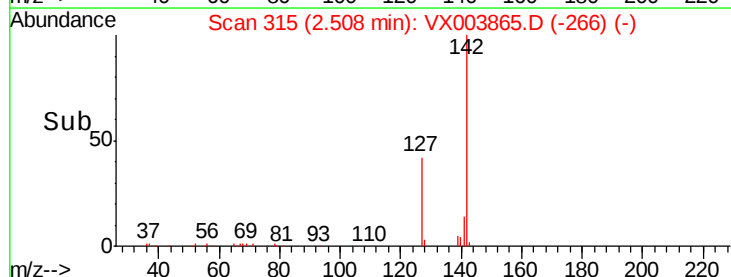
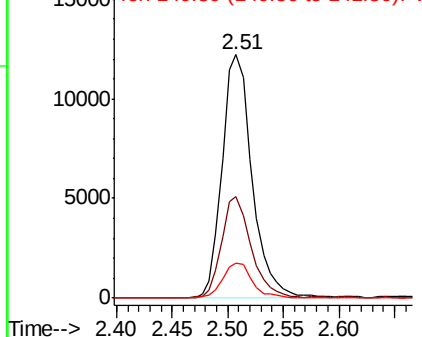
Lab File: VX003865.D

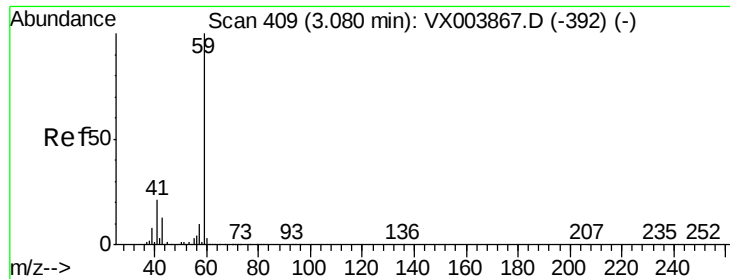
Acq: 06 Aug 2018 16:53

Tgt Ion:	142	Resp:	22846
Ion Ratio	Lower	Upper	
142	100		
127	41.1	33.1	49.7
141	14.2	11.1	16.7



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





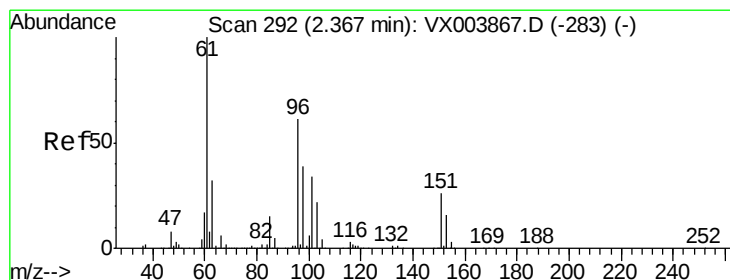
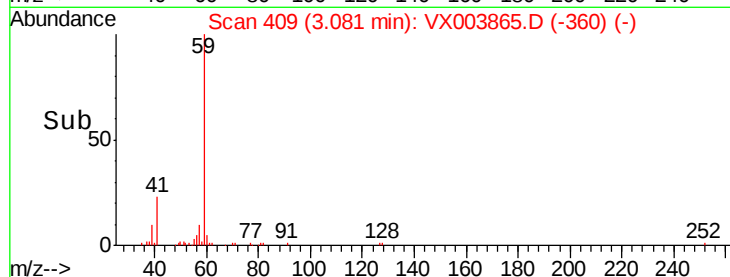
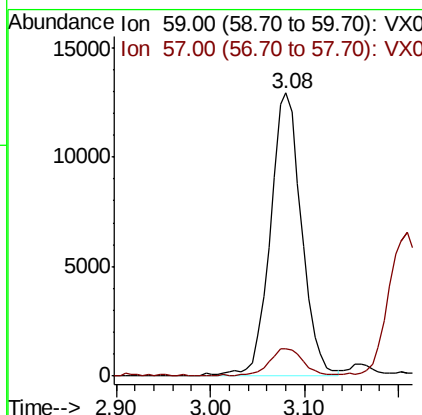
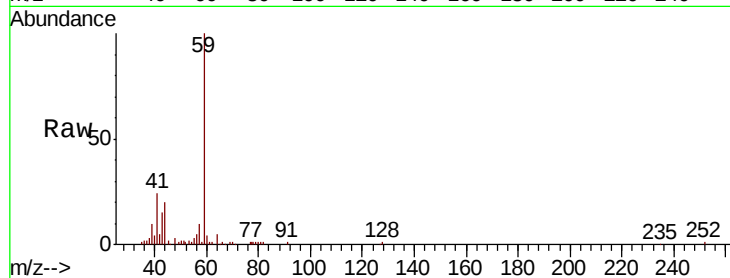
#11
Tert butyl alcohol
Concen: 29.04 ug/l
RT: 3.08 min Scan# 409
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.1	12.1

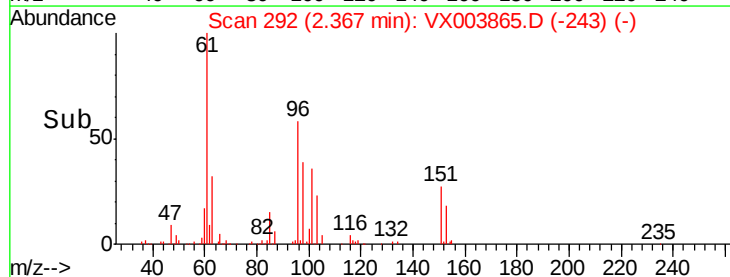
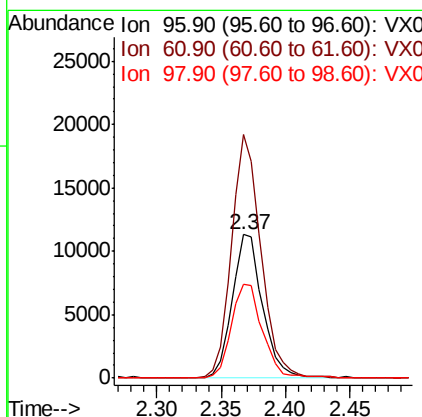
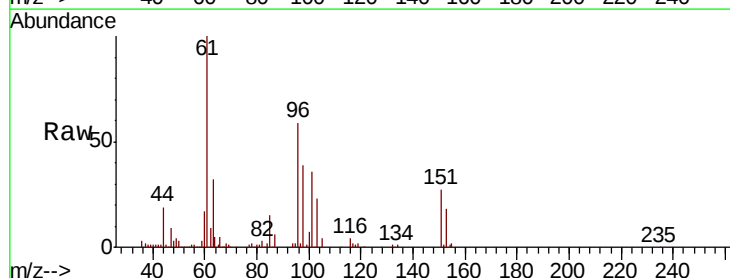
Manual Integrations
APPROVED

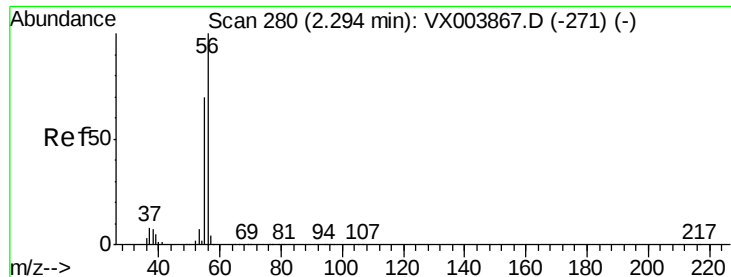
MMDadoda
8/7/2018 1:12:44 PM



#12
1,1-Dichloroethene
Concen: 5.14 ug/l
RT: 2.37 min Scan# 292
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
96	100		
61	169.7	131.3	196.9
98	65.3	51.8	77.6





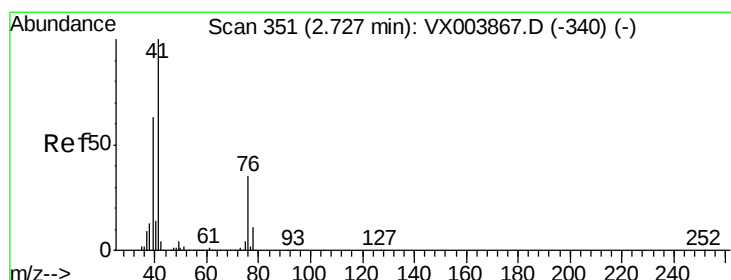
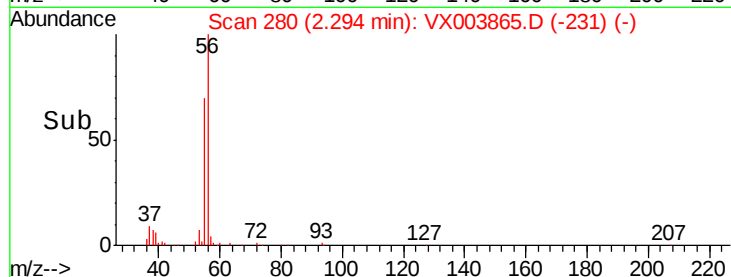
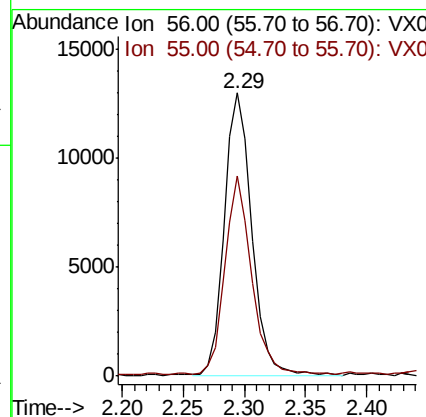
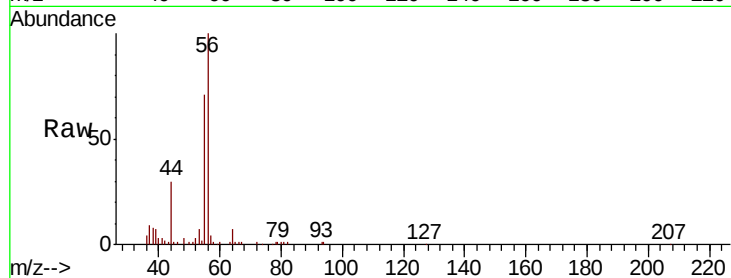
#13
Acrolein
Concen: 26.02 ug/l
RT: 2.29 min Scan# 280
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	56	Resp	20425
Ion Ratio	100	Lower	Upper
55	66.9	56.1	84.1

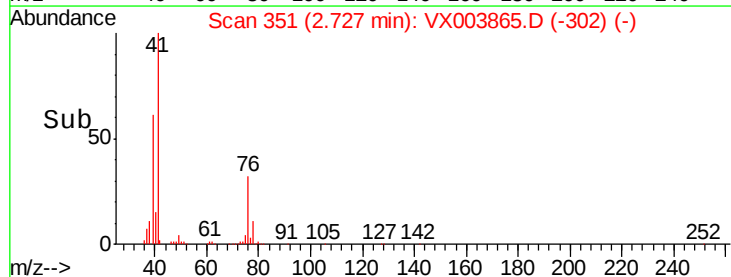
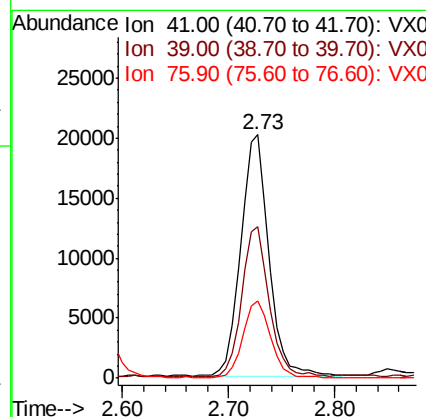
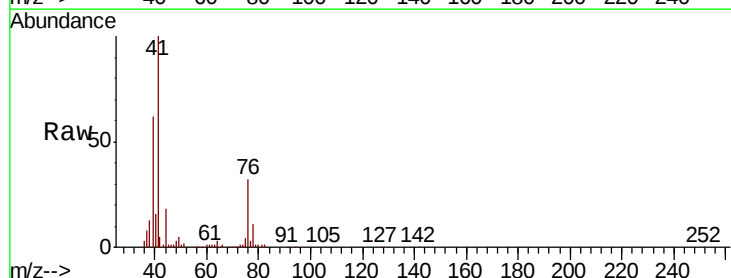
Manual Integrations
APPROVED

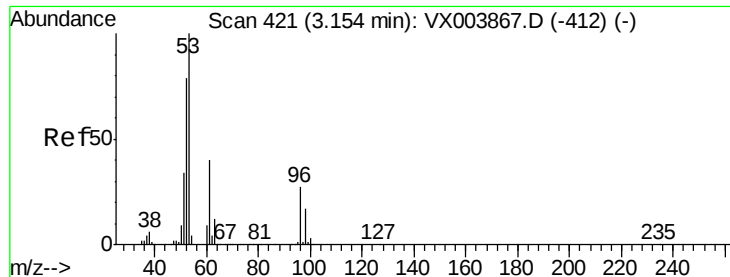
MMDadoda
8/7/2018 1:12:44 PM



#14
Allyl chloride
Concen: 5.52 ug/l
RT: 2.73 min Scan# 351
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	41	Resp	37256
Ion Ratio	100	Lower	Upper
39	60.1	47.4	71.0
76	31.9	26.0	39.0





#15

Acrylonitrile

Concen: 28.08 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.01 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

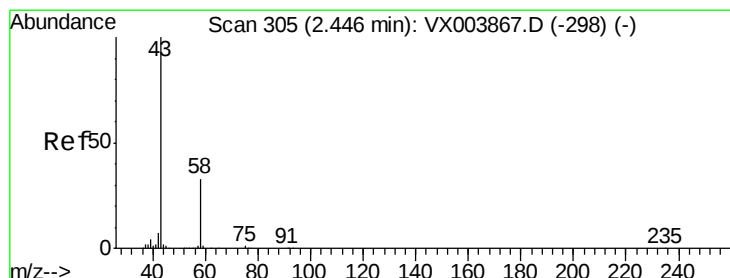
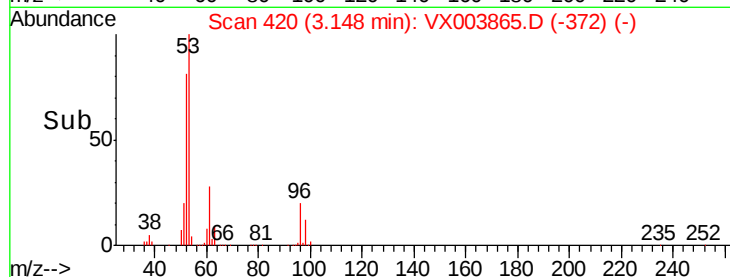
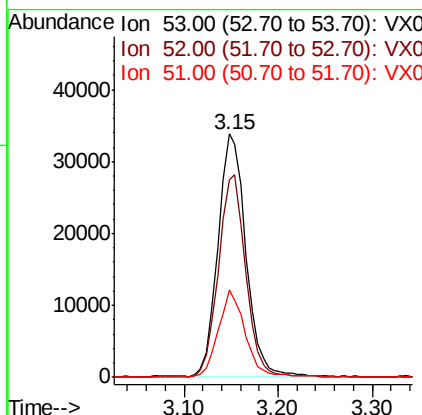
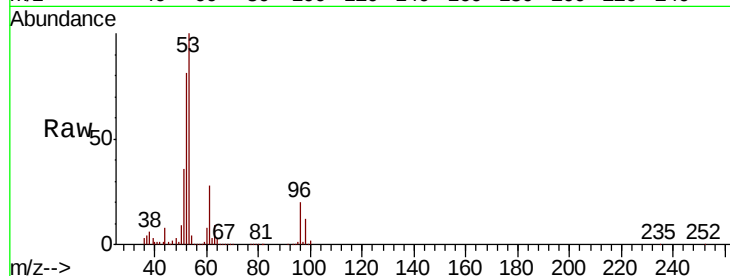
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	68942
Ion Ratio	Lower	Upper	
53	100		
52	81.4	65.3	97.9
51	34.4	27.9	41.9

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



#16

Acetone

Concen: 29.35 ug/l

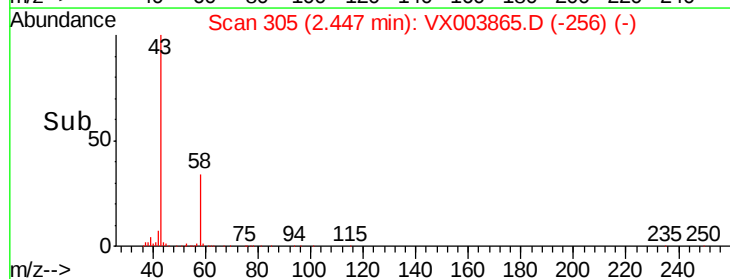
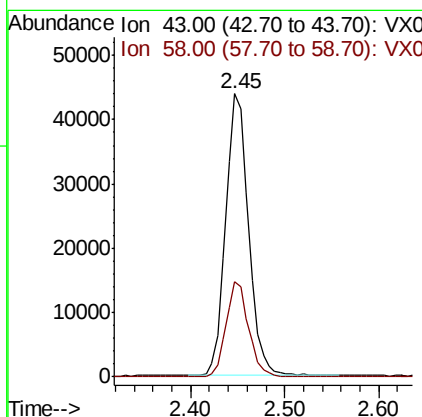
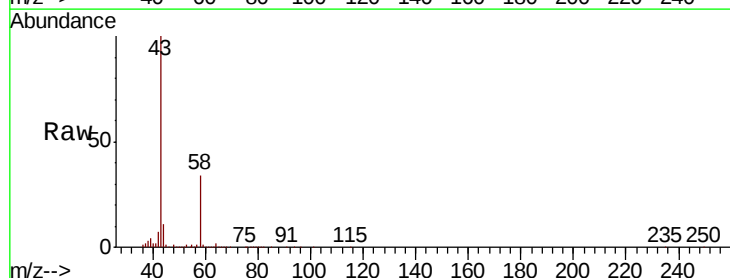
RT: 2.45 min Scan# 305

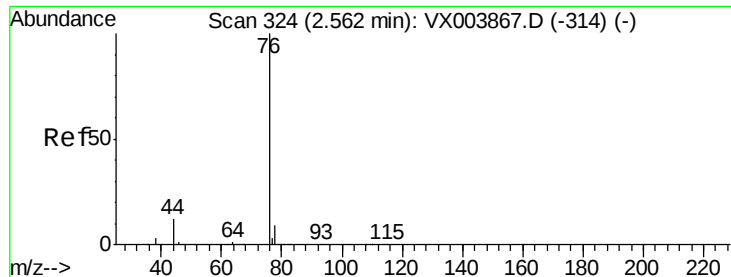
Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Tgt Ion:	43	Resp:	73876
Ion Ratio	Lower	Upper	
43	100		
58	33.9	26.4	39.6





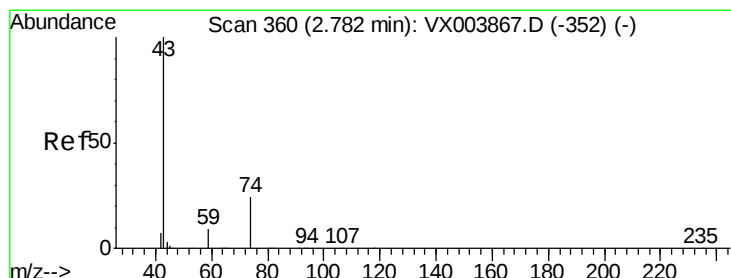
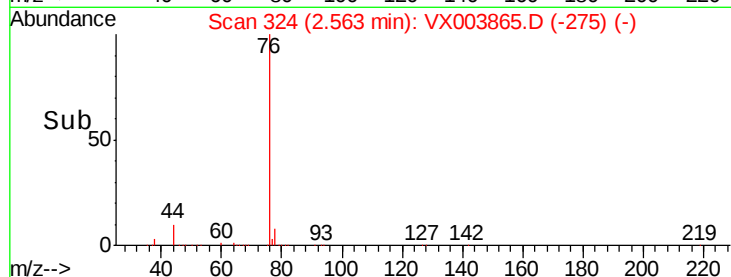
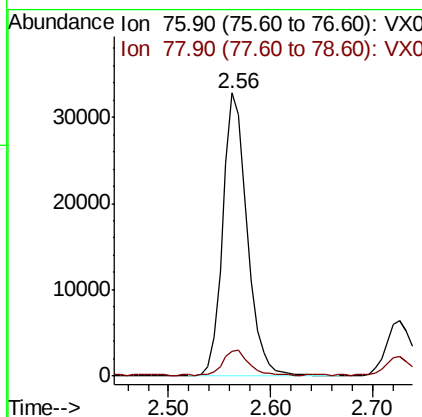
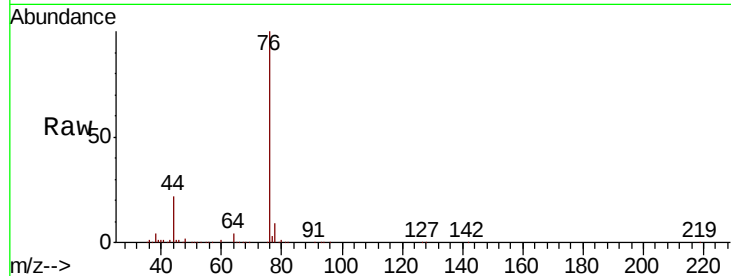
#17
Carbon Disulfide
Concen: 5.33 ug/l
RT: 2.56 min Scan# 324
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.1	7.5	11.3

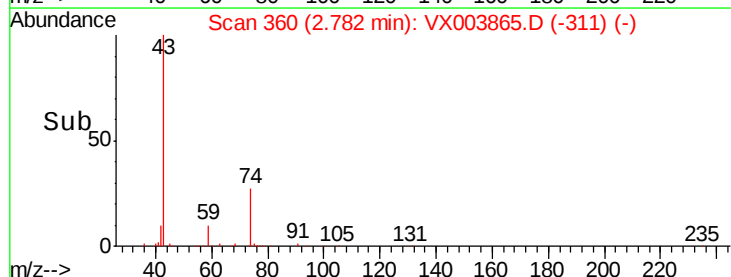
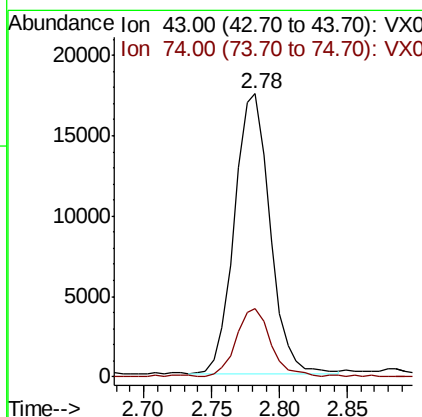
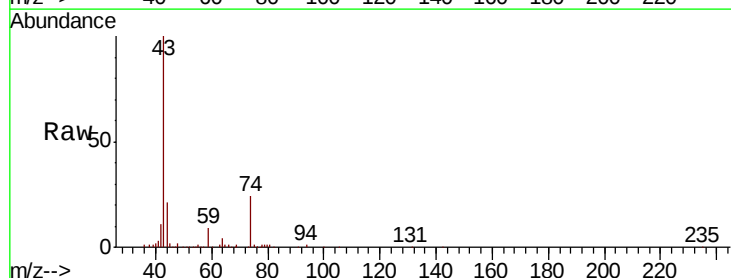
Manual Integrations
APPROVED

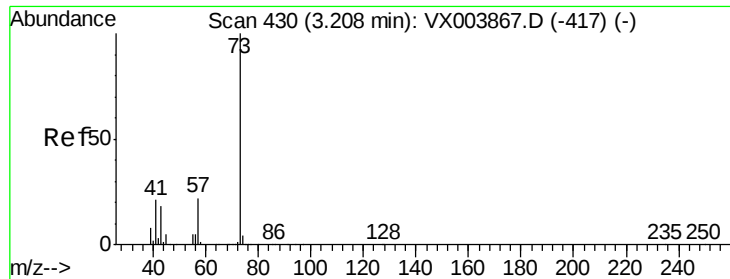
MMDadoda
8/7/2018 1:12:44 PM



#18
Methyl Acetate
Concen: 5.52 ug/l
RT: 2.78 min Scan# 360
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.9	18.9	28.3





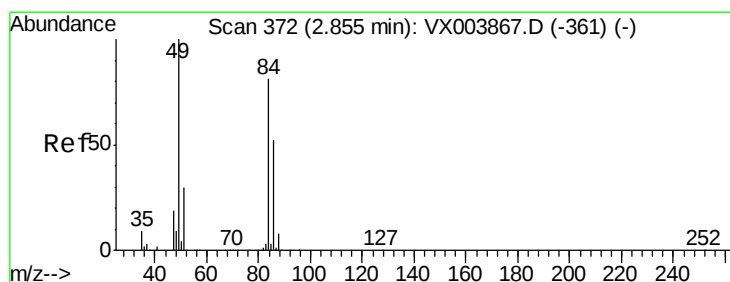
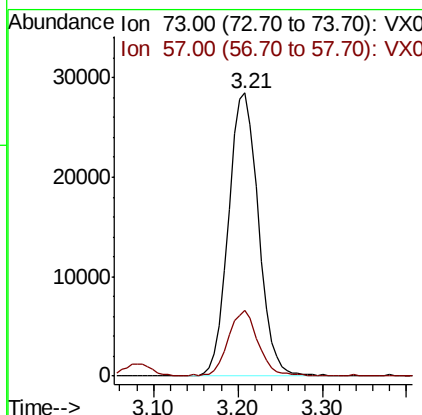
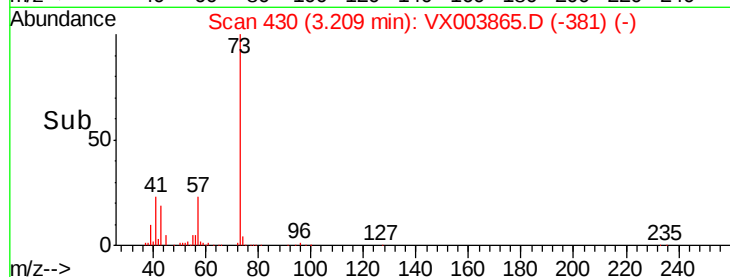
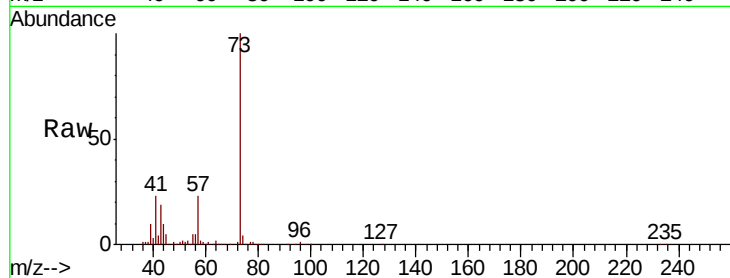
#19
Methyl tert-butyl Ether
Concen: 5.47 ug/l
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.7	18.0	27.0

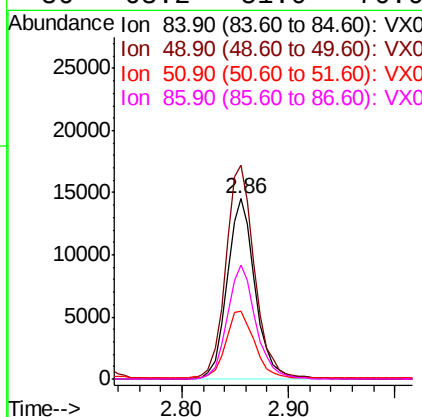
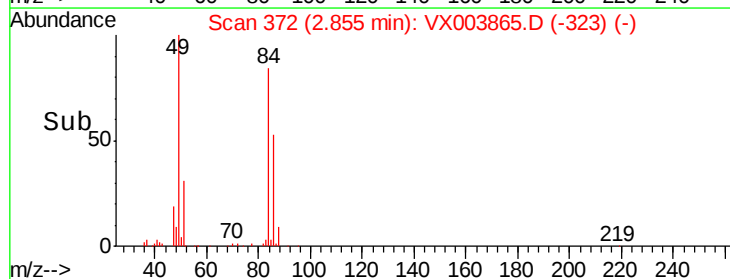
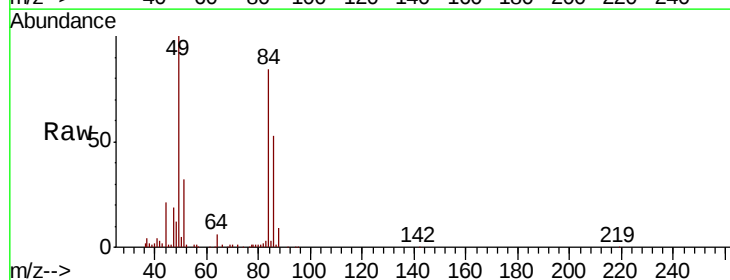
Manual Integrations
APPROVED

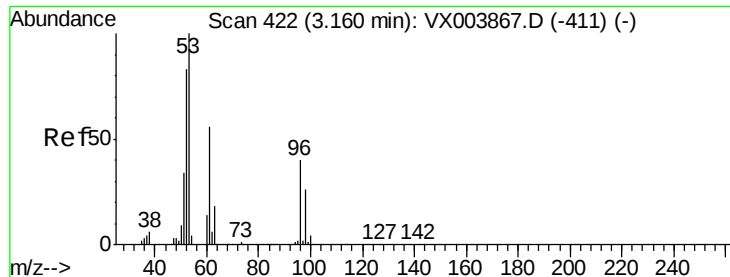
MMDadoda
8/7/2018 1:12:44 PM



#20
Methylene Chloride
Concen: 6.07 ug/l
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
84	100		
49	118.1	98.9	148.3
51	36.9	29.9	44.9
86	63.2	51.0	76.6





#21

trans-1,2-Dichloroethene

Concen: 5.55 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

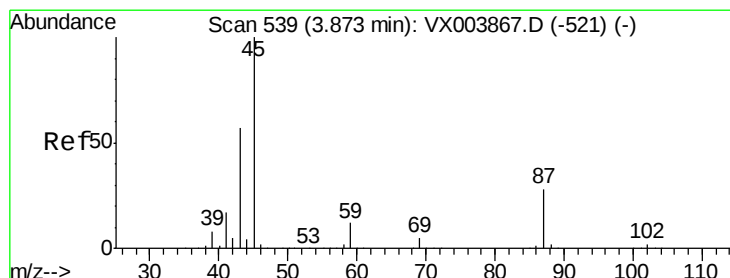
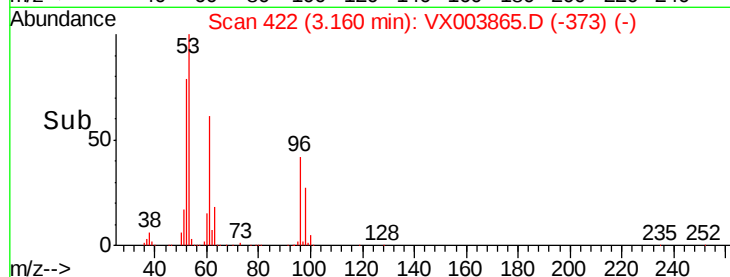
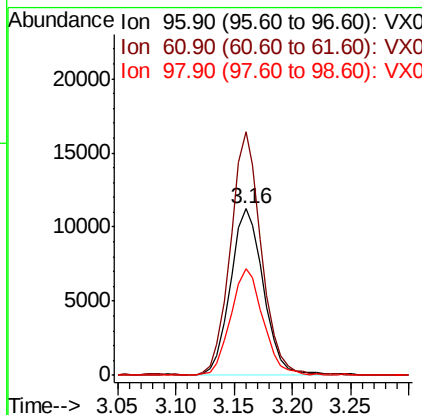
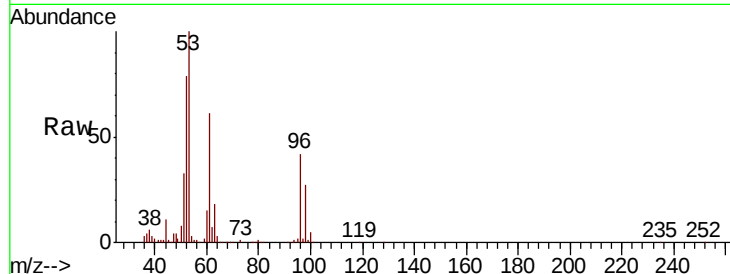
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	22155
Ion	Ratio	Lower	Upper
96	100		
61	145.6	111.8	167.6
98	63.4	51.8	77.6

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



#22

Diisopropyl ether

Concen: 5.19 ug/l

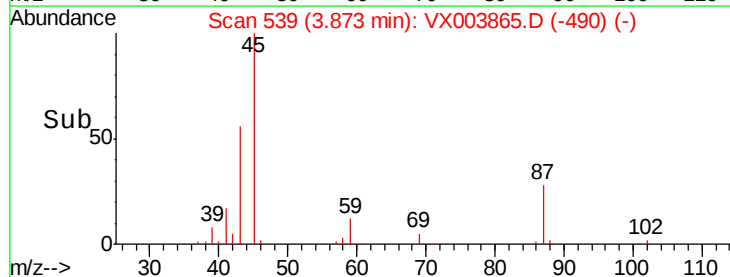
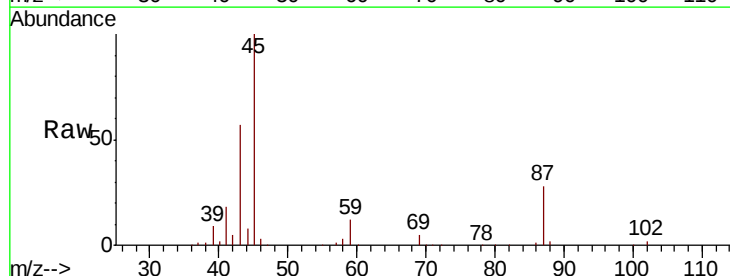
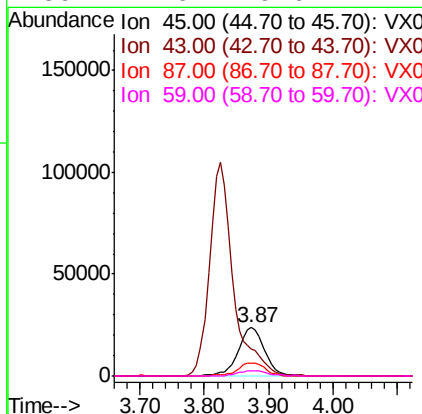
RT: 3.87 min Scan# 539

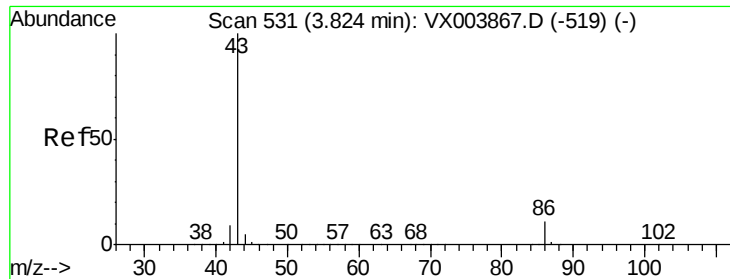
Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Tgt Ion:	45	Resp:	66670
Ion	Ratio	Lower	Upper
45	100		
43	56.1	45.3	67.9
87	27.6	22.7	34.1
59	11.6	9.6	14.4





#23

Vinyl Acetate

Concen: 25.42 ug/l

RT: 3.82 min Scan# 531

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 270754

Ion Ratio Lower Upper

43 100

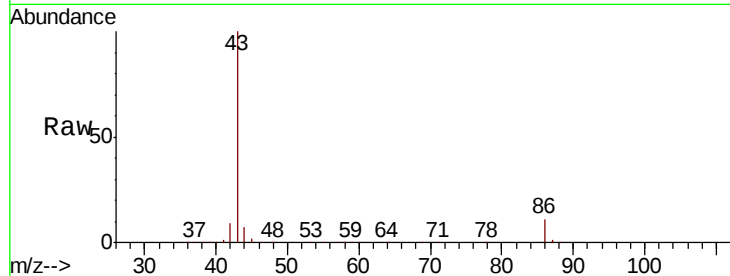
86 11.3 8.9 13.3

Manual Integrations

APPROVED

MMDadoda

8/7/2018 1:12:44 PM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 86.00 (85.70 to 86.70): VX0

120000

100000

80000

60000

40000

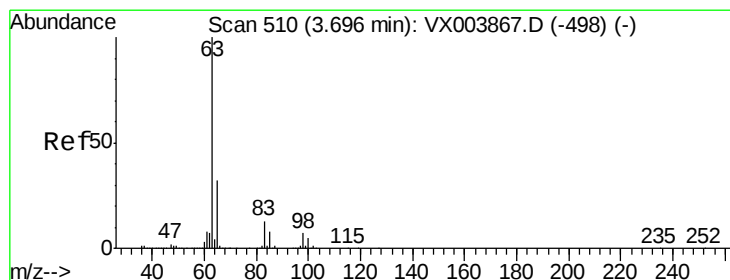
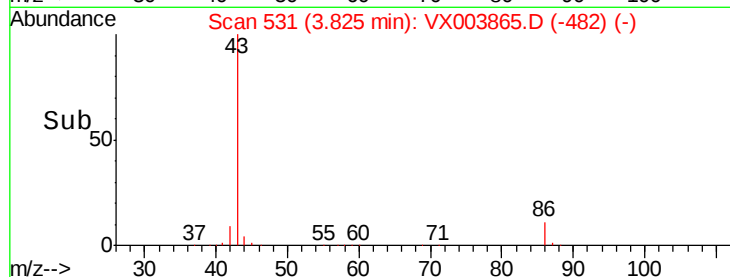
20000

0

3.80

4.00

Time-->



#24

1,1-Dichloroethane

Concen: 5.64 ug/l

RT: 3.69 min Scan# 509

Delta R.T. -0.01 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

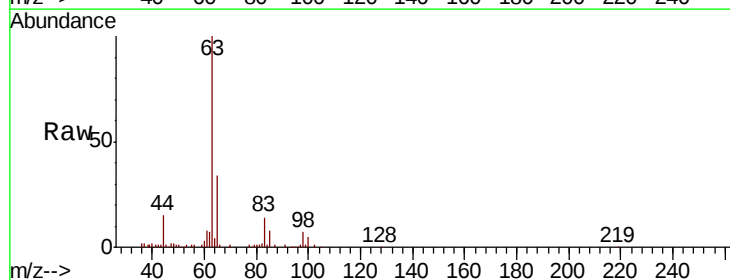
Tgt Ion: 63 Resp: 41060

Ion Ratio Lower Upper

63 100

98 7.4 3.5 10.5

100 4.8 2.3 6.8



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

20000

15000

10000

5000

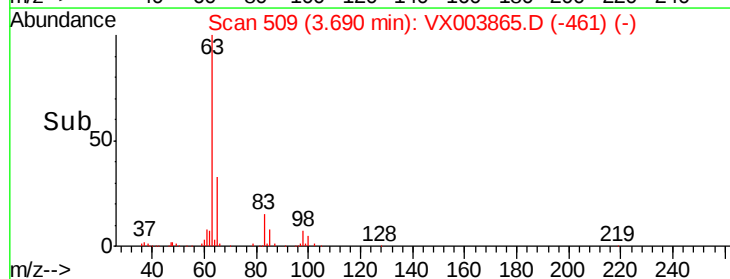
0

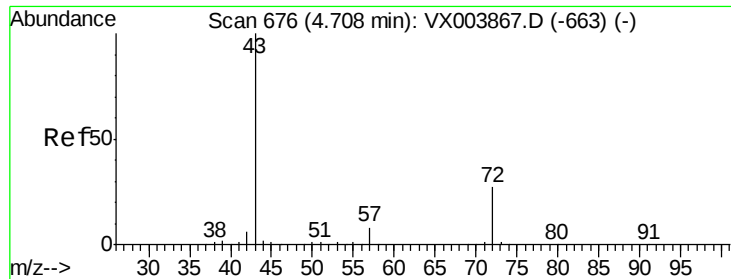
3.60

3.70

3.80

Time-->





#25

2-Butanone

Concen: 25.09 ug/l

RT: 4.71 min Scan# 676

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 105071

Ion Ratio Lower Upper

43 100

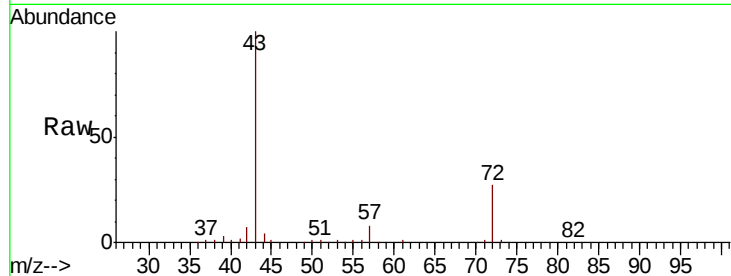
72 27.4 21.4 32.0

Manual Integrations

APPROVED

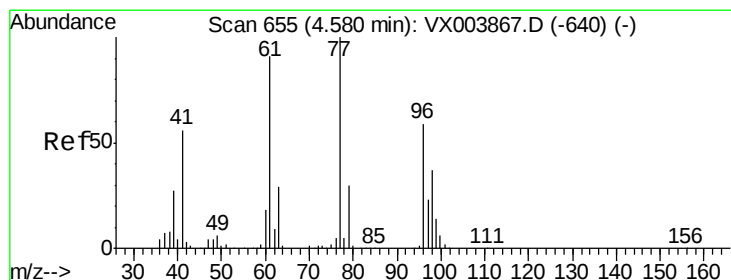
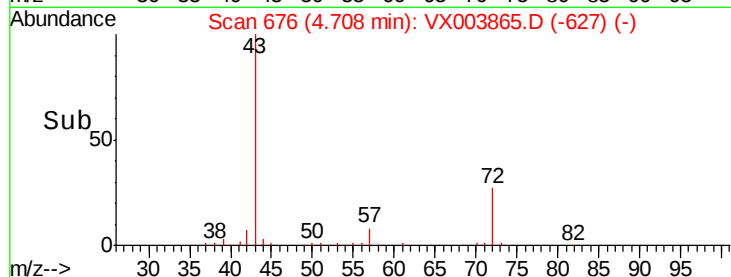
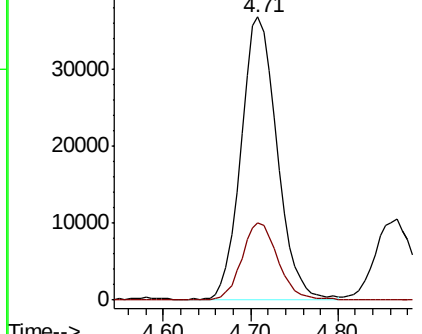
MMDadoda

8/7/2018 1:12:44 PM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 5.93 ug/l

RT: 4.59 min Scan# 656

Delta R.T. 0.01 min

Lab File: VX003865.D

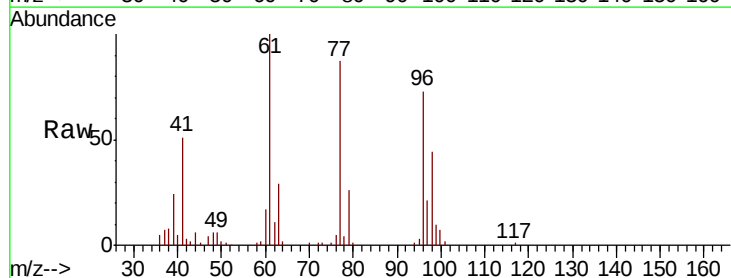
Acq: 06 Aug 2018 16:53

Tgt Ion: 77 Resp: 29676

Ion Ratio Lower Upper

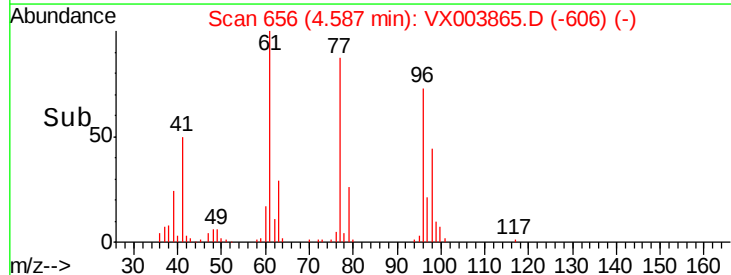
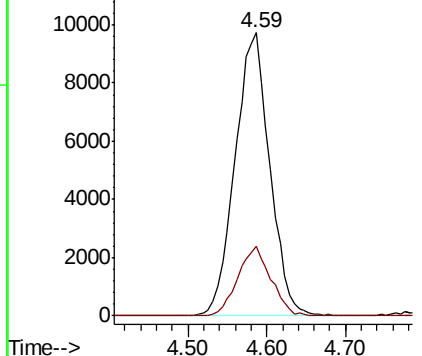
77 100

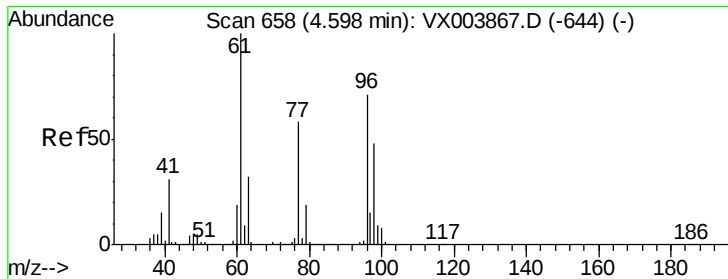
97 23.4 11.9 35.9



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#27

cis-1,2-Dichloroethene

Concen: 5.31 ug/l

RT: 4.59 min Scan# 657

Delta R.T. -0.01 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

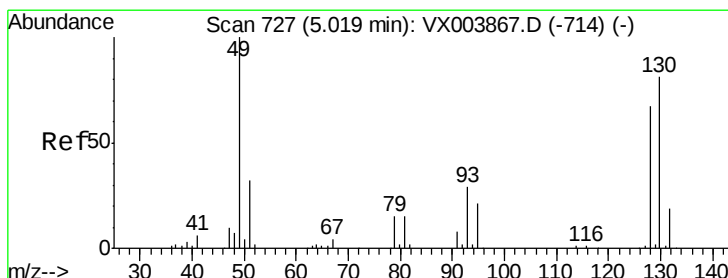
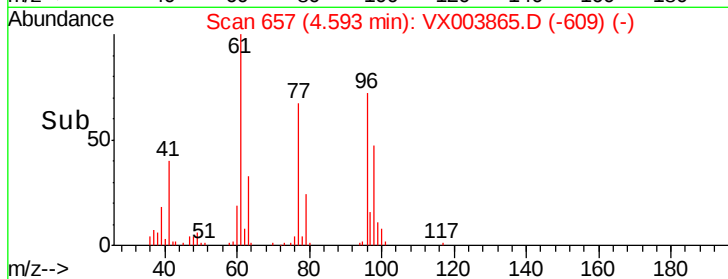
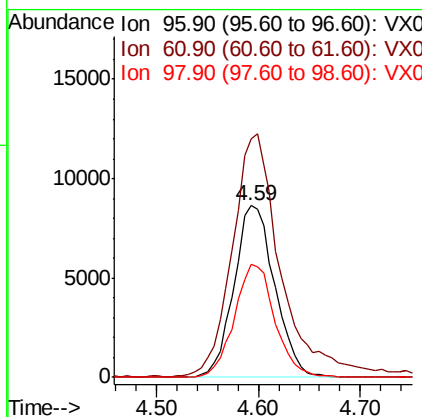
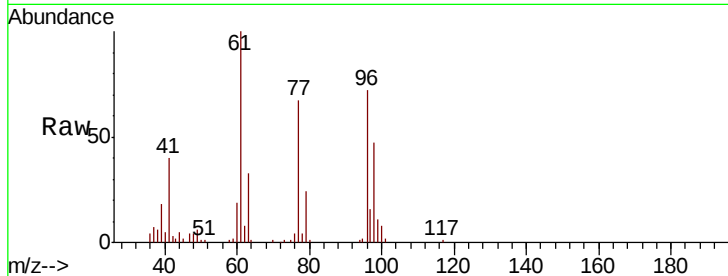
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	23963
Ion	Ratio	Lower	Upper
96	100		
61	173.0	0.0	293.0
98	65.5	0.0	131.8

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



#28

Bromochloromethane

Concen: 5.15 ug/l

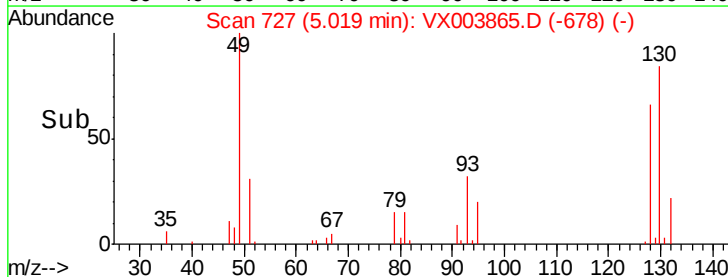
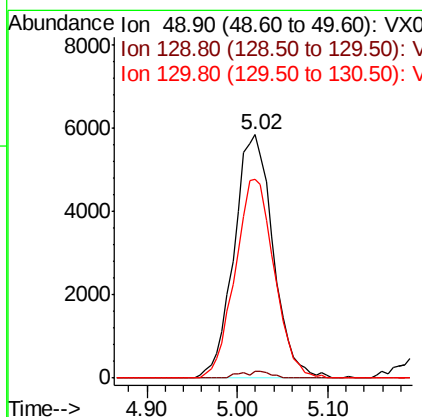
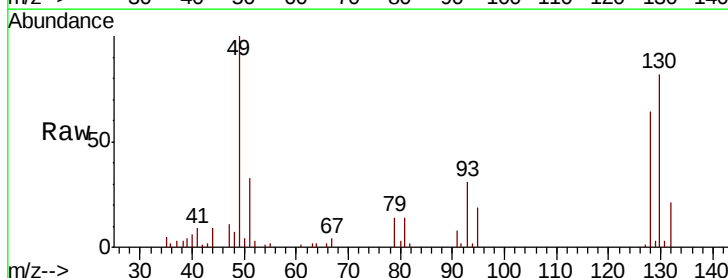
RT: 5.02 min Scan# 727

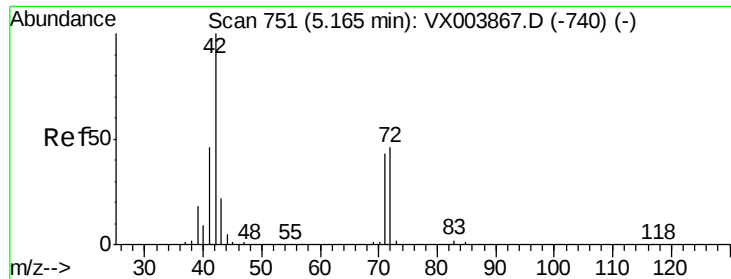
Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Tgt Ion:	49	Resp:	17366
Ion	Ratio	Lower	Upper
49	100		
129	2.2	0.0	4.2
130	82.1	66.5	99.7





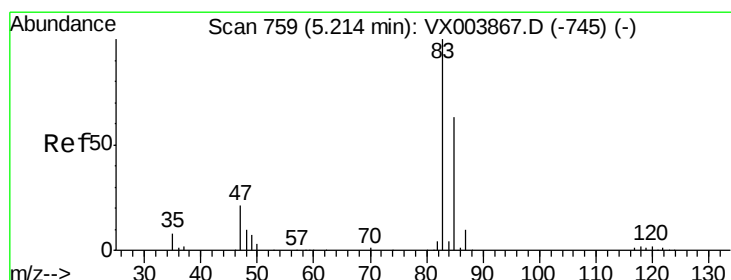
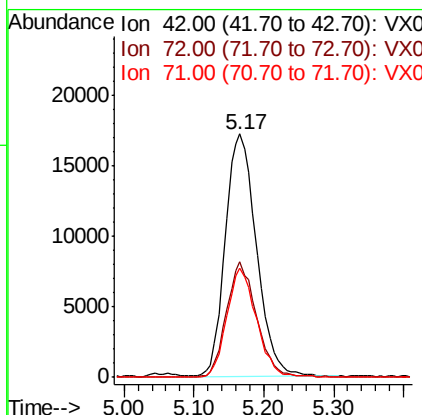
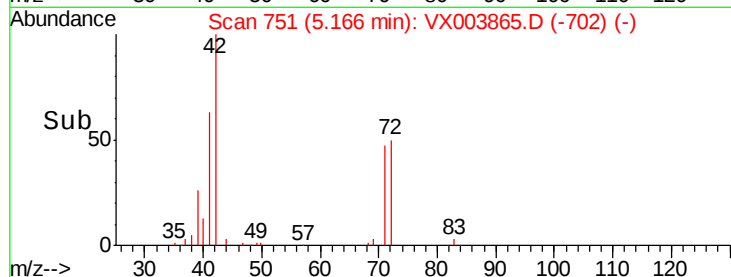
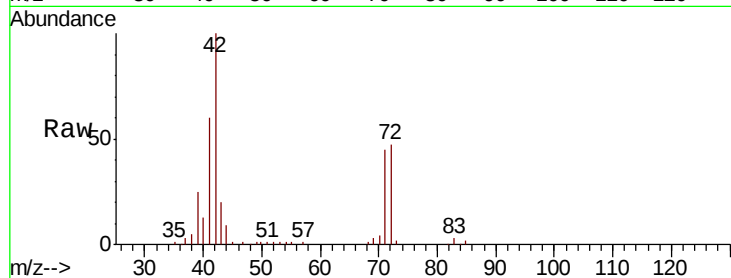
#29
Tetrahydrofuran
Concen: 24.92 ug/l
RT: 5.17 min Scan# 751
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.1	37.7	56.5
71	43.0	35.0	52.6

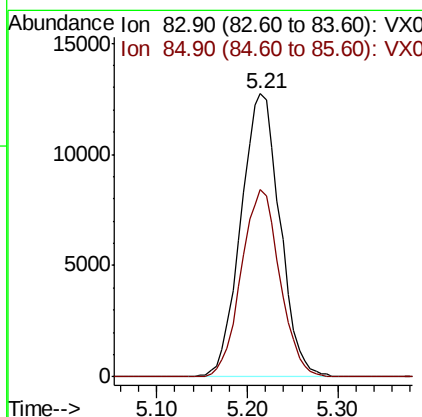
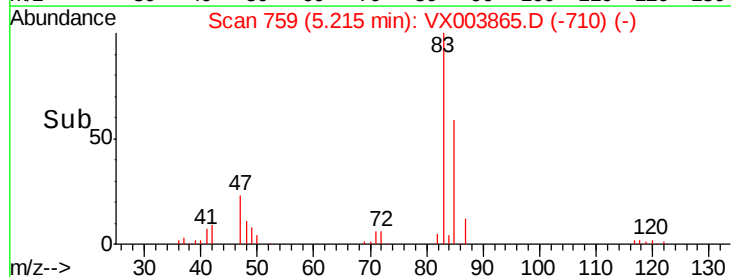
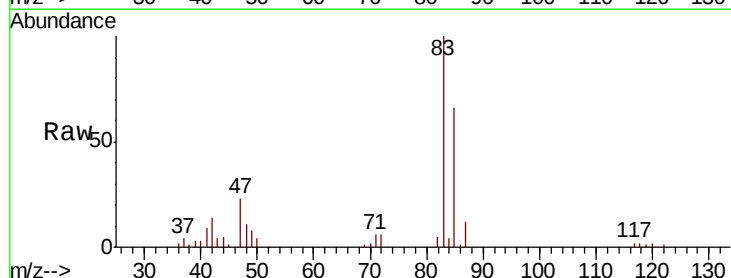
Manual Integrations
APPROVED

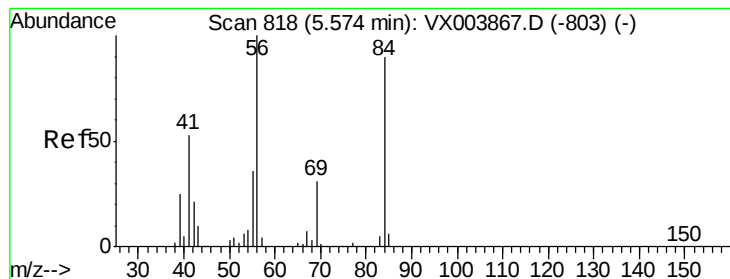
MMDadoda
8/7/2018 1:12:44 PM



#30
Chloroform
Concen: 5.08 ug/l
RT: 5.21 min Scan# 759
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.1	50.7	76.1





#31

Cyclohexane

Concen: 5.17 ug/l

RT: 5.57 min Scan# 817

Delta R.T. -0.01 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

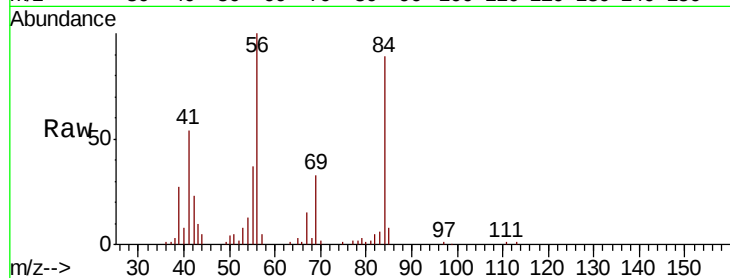
ClientSampleId :

VSTDIC005

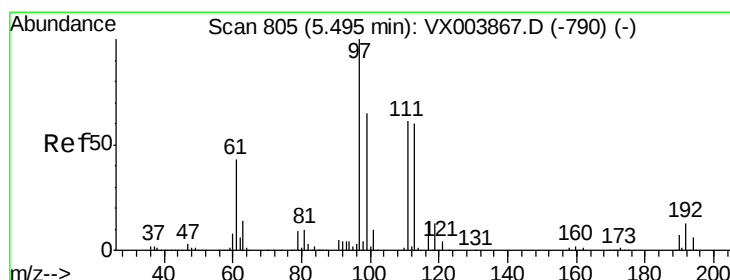
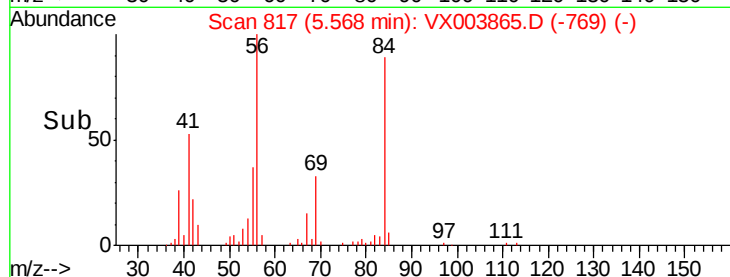
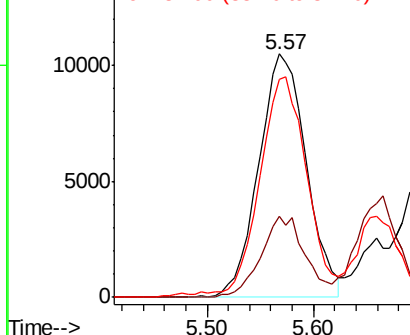
Tot Ion:	56	Resp:	32633
Ion	Ratio	Lower	Upper
56	100		
69	33.1	24.9	37.3
84	87.9	71.7	107.5

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



Abundance Ion 56.00 (55.70 to 56.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 84.00 (83.70 to 84.70): VX0



#32

1,1,1-Trichloroethane

Concen: 5.10 ug/l

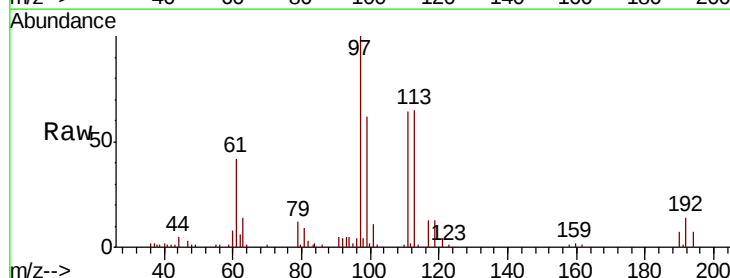
RT: 5.49 min Scan# 805

Delta R.T. 0.00 min

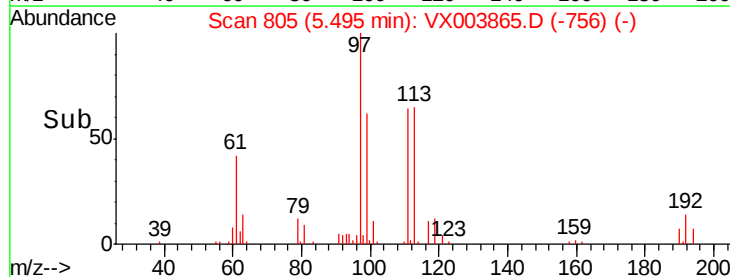
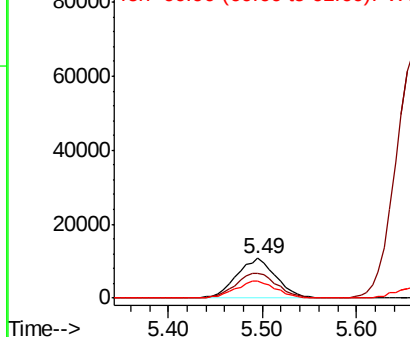
Lab File: VX003865.D

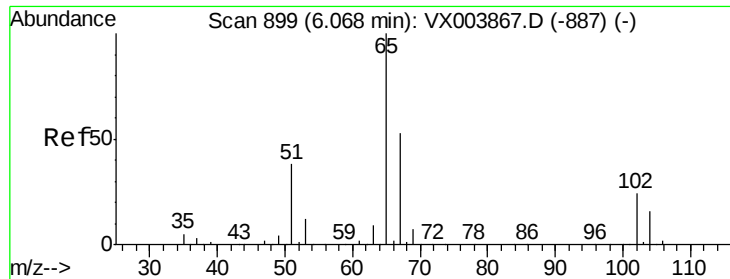
Acq: 06 Aug 2018 16:53

Tgt Ion:	97	Resp:	31788
Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.8	77.8
61	43.5	34.4	51.6



Abundance Ion 96.90 (96.60 to 97.60): VX0
Ion 98.90 (98.60 to 99.60): VX0
Ion 60.90 (60.60 to 61.60): VX0





#33

1,2-Dichloroethane-d4

Concen: 5.50 ug/l

RT: 6.07 min Scan# 899

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Tot Ion: 65 Resp: 25646

Ion Ratio Lower Upper

65 100

67 54.7 0.0 105.8

Instrument :

MSVOA_X

ClientSampleId :

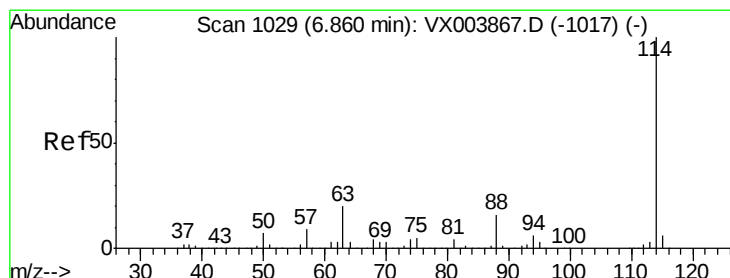
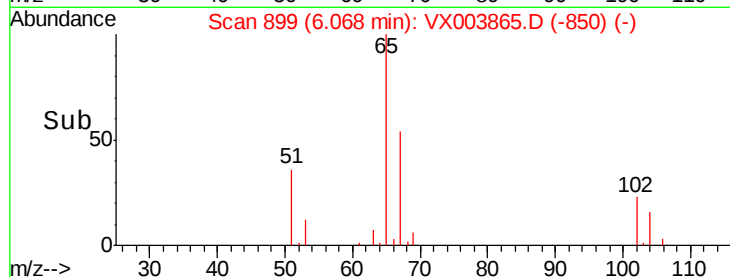
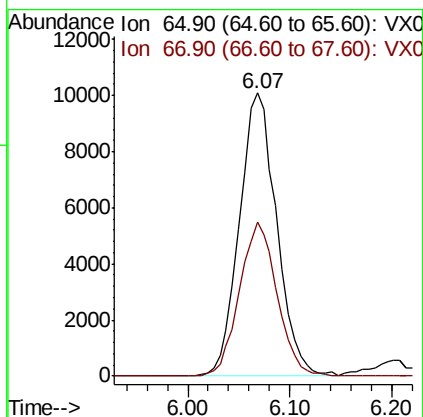
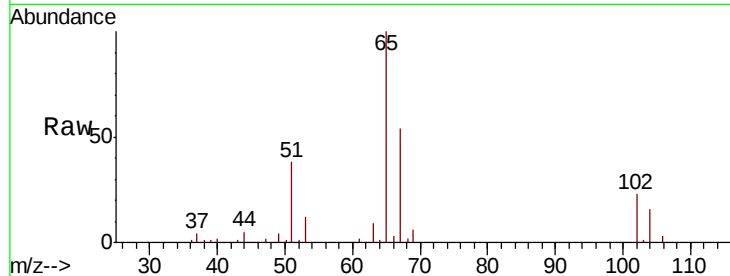
VSTDIC005

Manual Integrations

APPROVED

MMDadoda

8/7/2018 1:12:44 PM



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 6.86 min Scan# 1029

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

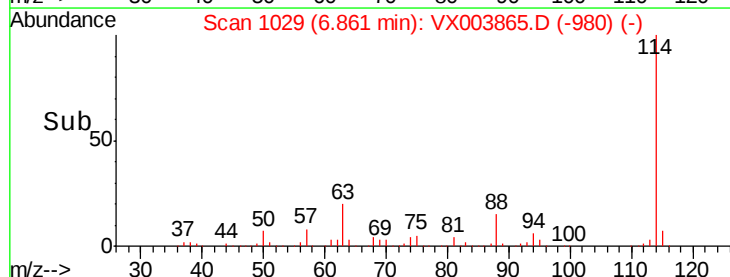
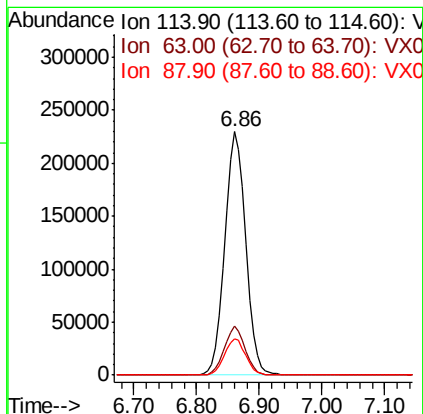
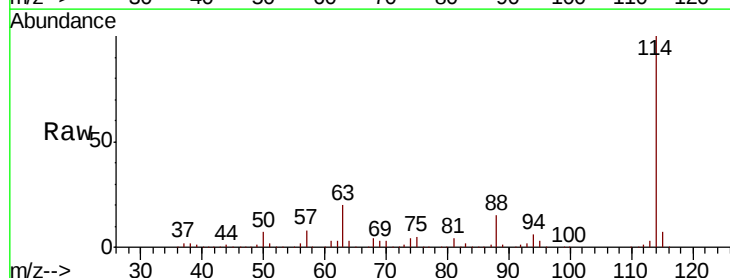
Tgt Ion: 114 Resp: 530731

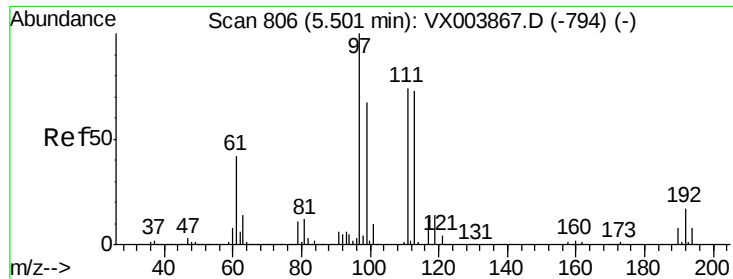
Ion Ratio Lower Upper

114 100

63 20.0 0.0 39.0

88 15.0 0.0 32.0





#35

Dibromofluoromethane

Concen: 4.95 ug/l

RT: 5.49 min Scan# 805

Delta R.T. -0.01 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

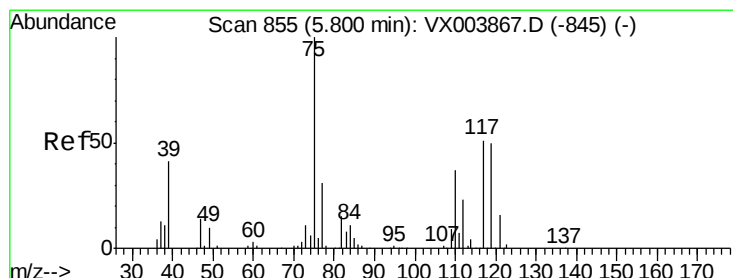
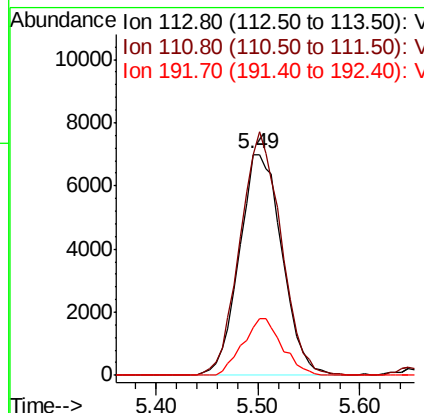
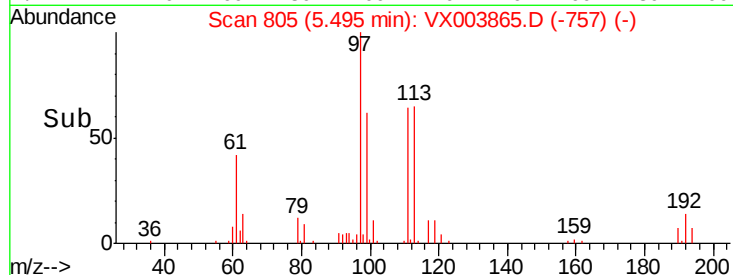
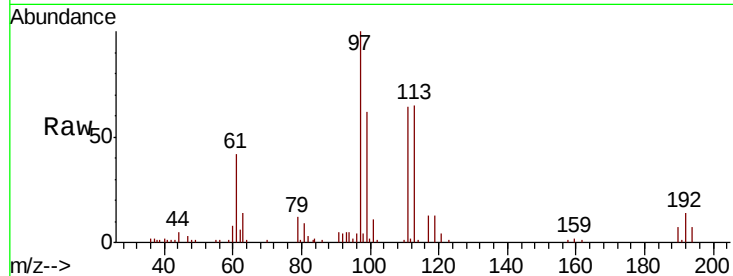
ClientSampleId :

VSTDIC005

Tot Ion:	113	Resp:	20379
Ion	Ratio	Lower	Upper
113	100		
111	105.7	82.0	123.0
192	23.6	19.0	28.4

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



#36

1,1-Dichloropropene

Concen: 4.94 ug/l

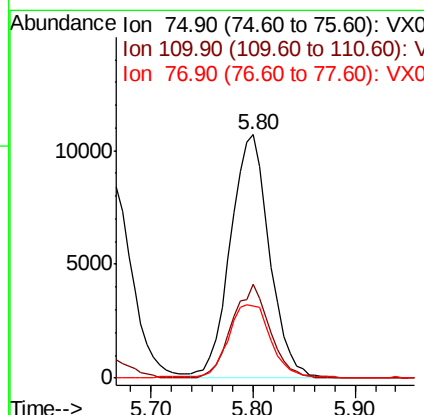
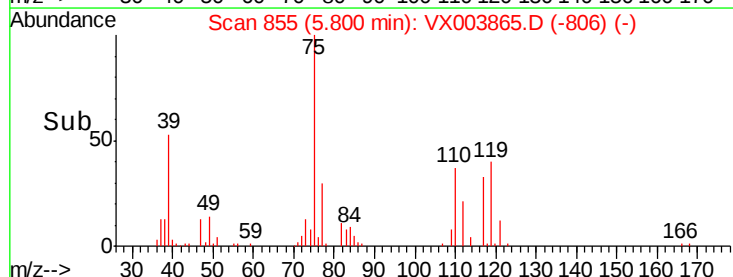
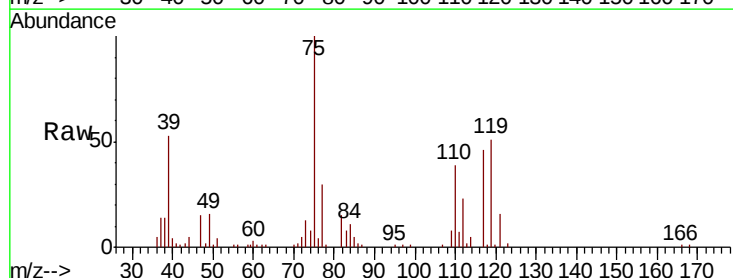
RT: 5.80 min Scan# 855

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Tgt Ion:	75	Resp:	28409
Ion	Ratio	Lower	Upper
75	100		
110	37.0	18.2	54.6
77	33.1	25.0	37.4





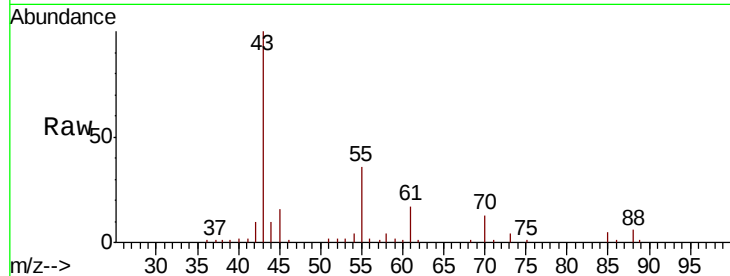
#37
Ethyl Acetate
Concen: 4.85 ug/l
RT: 4.87 min Scan# 702
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

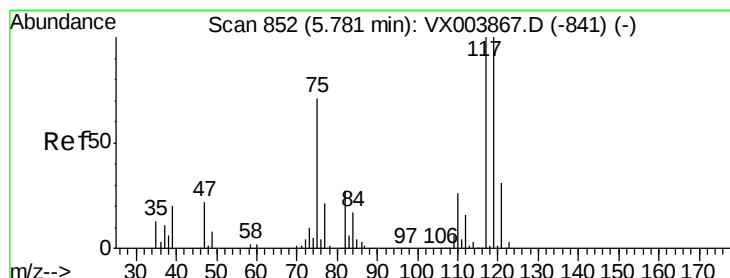
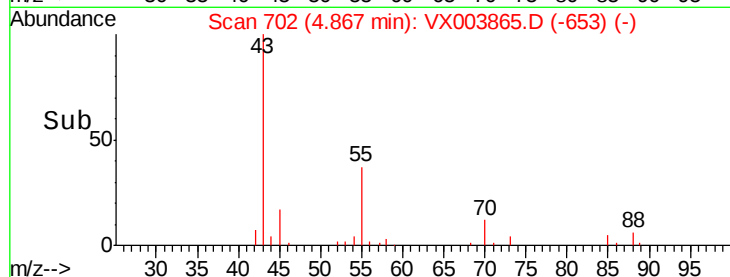
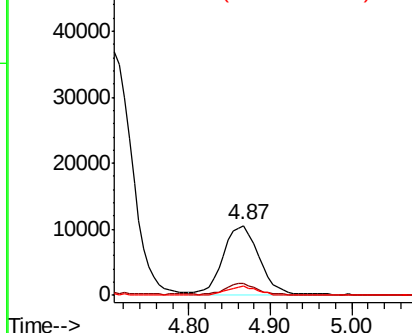
Tot Ion	Ratio	Lower	Upper
43	100		
61	16.4	11.5	17.3
70	11.6	9.0	13.4

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM

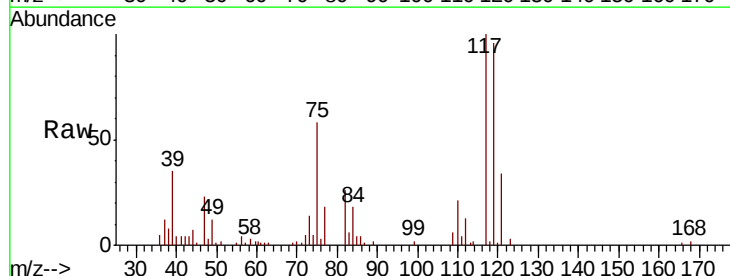


Abundance Ion 43.00 (42.70 to 43.70): VX0
Ion 60.90 (60.60 to 61.60): VX0
Ion 70.00 (69.70 to 70.70): VX0

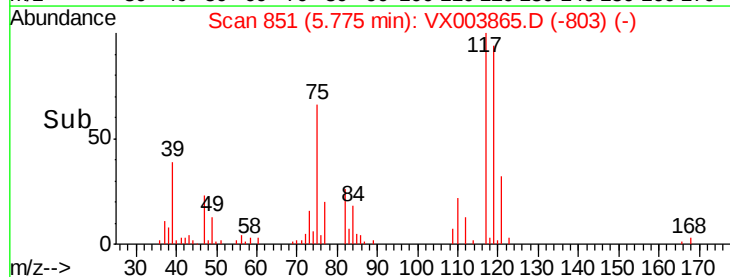
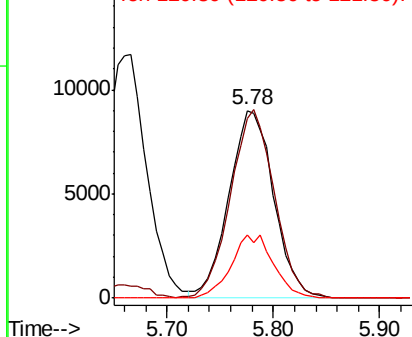


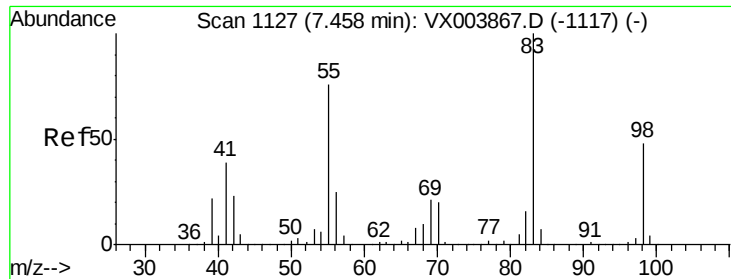
#38
Carbon Tetrachloride
Concen: 4.64 ug/l
RT: 5.78 min Scan# 851
Delta R.T. -0.01 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
117	100		
119	96.0	79.5	119.3
121	33.8	25.0	37.4



Abundance Ion 116.80 (116.50 to 117.50): V
Ion 118.80 (118.50 to 119.50): V
Ion 120.80 (120.50 to 121.50): V





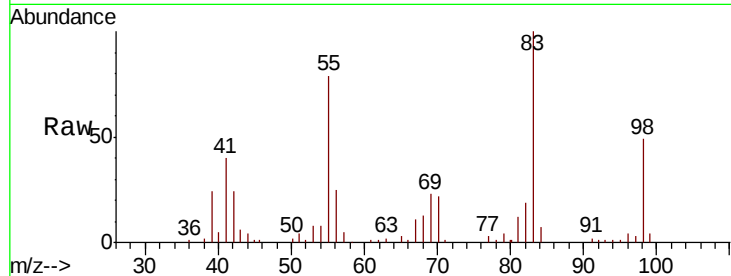
#39
Methvlcvclohexane
Concen: 4.90 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.01 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
55	78.5	61.0	91.6	
98	48.8	38.6	57.8	

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM

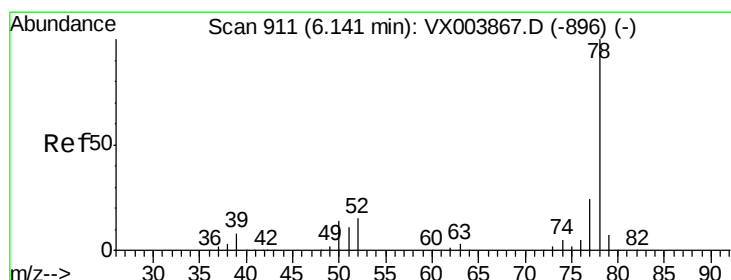
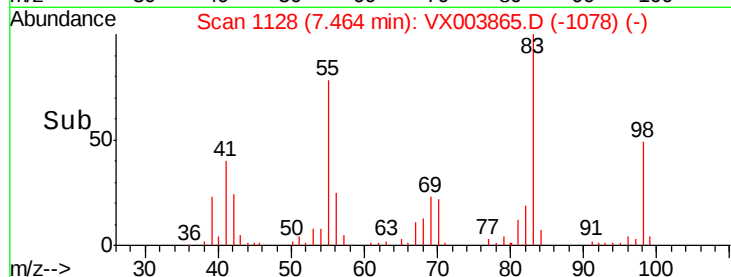
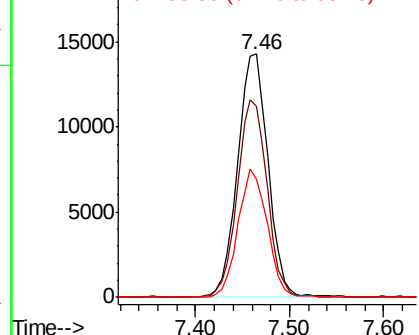


Abundance

Ion 83.00 (82.70 to 83.70): VX0

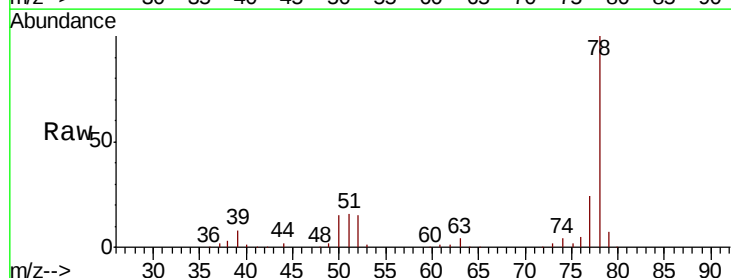
Ion 55.00 (54.70 to 55.70): VX0

Ion 98.00 (97.70 to 98.70): VX0



#40
Benzene
Concen: 5.01 ug/l
RT: 6.14 min Scan# 911
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

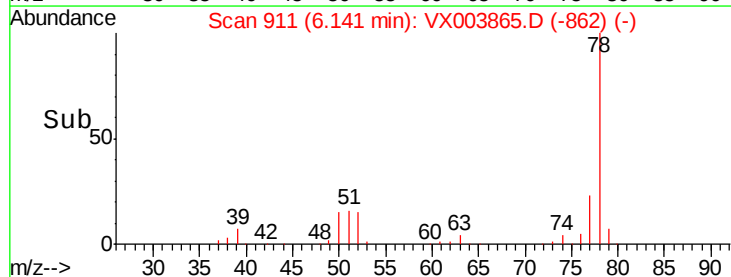
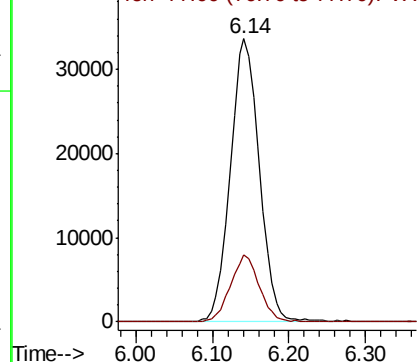
Tgt Ion	Ratio	Resp	Lower	Upper
78	100			
77	23.7	19.0	28.4	

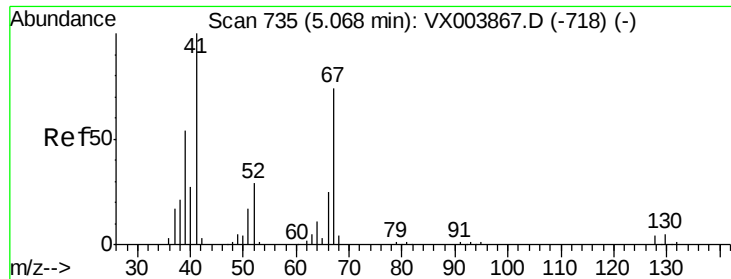


Abundance

Ion 78.00 (77.70 to 78.70): VX0

Ion 77.00 (76.70 to 77.70): VX0





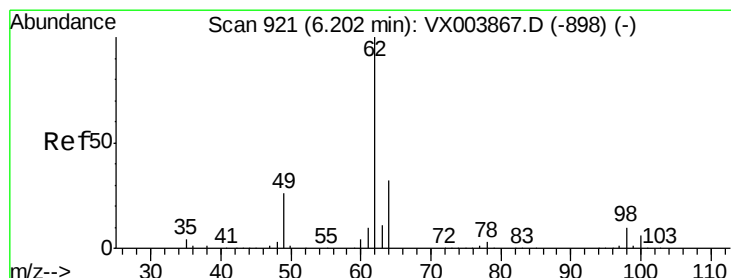
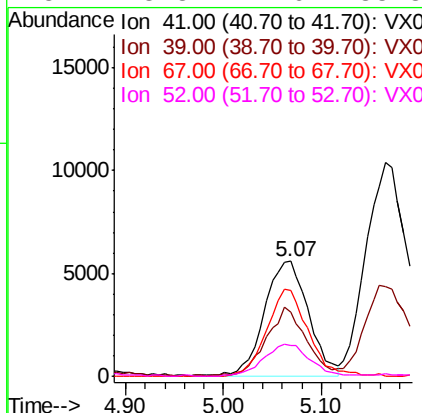
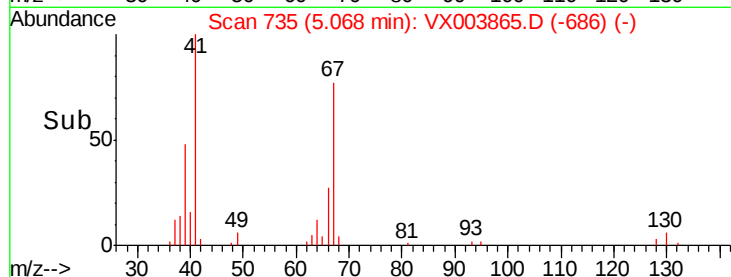
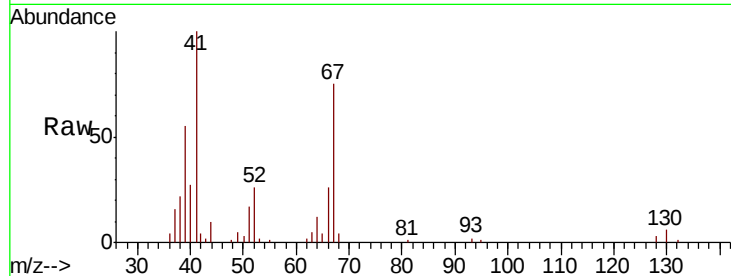
#41
Methacrylonitrile
Concen: 5.01 ug/l
RT: 5.07 min Scan# 735
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.6	42.7	64.1	
67	70.5	58.9	88.3	
52	28.8	22.6	33.8	

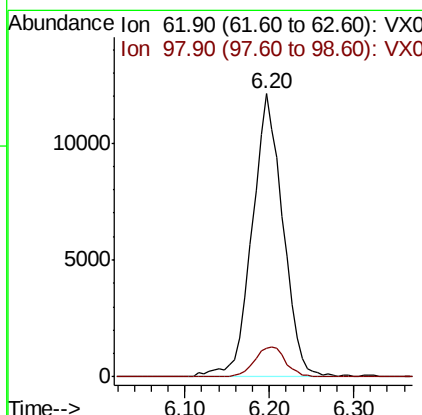
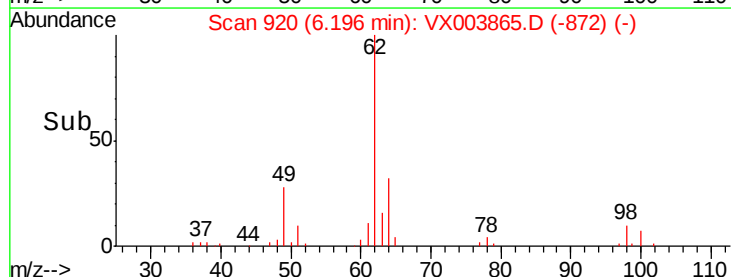
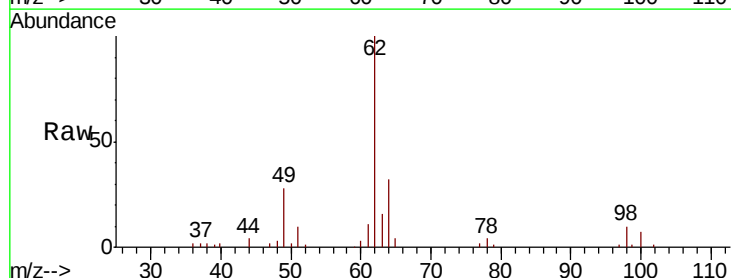
Manual Integrations
APPROVED

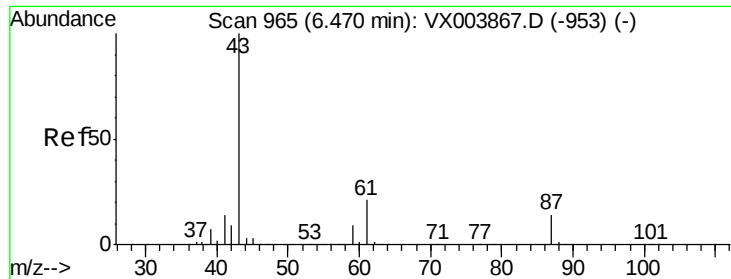
MMDadoda
8/7/2018 1:12:44 PM



#42
1,2-Dichloroethane
Concen: 5.12 ug/l
RT: 6.20 min Scan# 920
Delta R.T. -0.01 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	10.7	0.0	20.4	





#43

Isopropyl Acetate

Concen: 4.70 ug/l

RT: 6.47 min Scan# 965

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

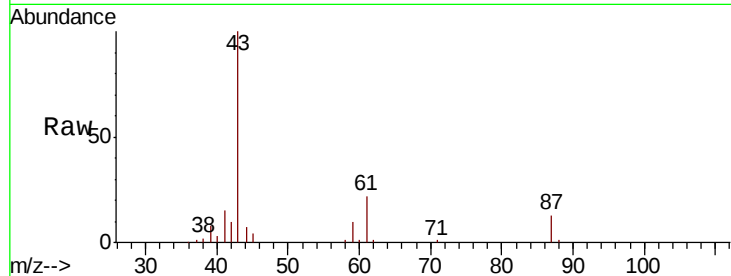
ClientSampleId :

VSTDIC005

Tot Ion:	43	Resp:	46145
Ion	Ratio	Lower	Upper
43	100		
61	21.6	16.9	25.3
87	13.7	11.3	16.9

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM

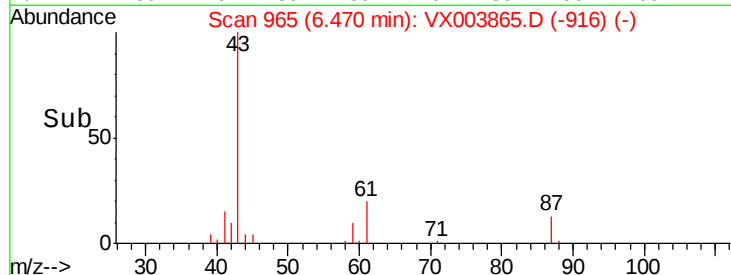


Abundance Ion 43.00 (42.70 to 43.70): VX003867.D (-953) (-)

Ion 61.00 (60.70 to 61.70): VX003867.D (-953) (-)

Ion 87.00 (86.70 to 87.70): VX003867.D (-953) (-)

Time-->



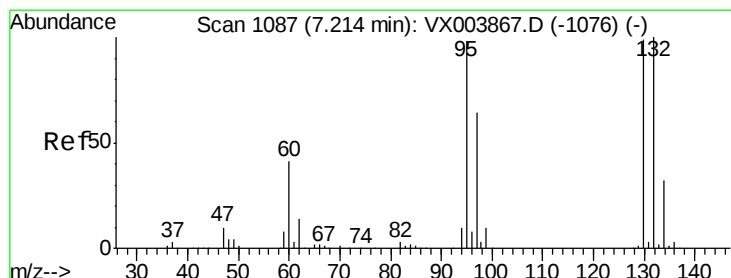
Abundance

Ion 43.00 (42.70 to 43.70): VX003867.D (-953) (-)

Ion 61.00 (60.70 to 61.70): VX003867.D (-953) (-)

Ion 87.00 (86.70 to 87.70): VX003867.D (-953) (-)

Time-->



#44

Trichloroethene

Concen: 5.08 ug/l

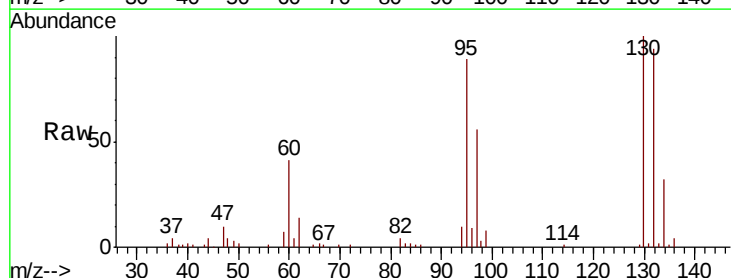
RT: 7.21 min Scan# 1087

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

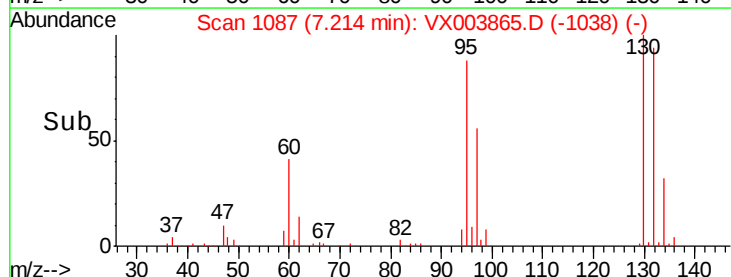
Tgt Ion:	130	Resp:	24153
Ion	Ratio	Lower	Upper
130	100		
95	88.6	0.0	199.4



Abundance Ion 129.80 (129.50 to 130.50): VX003867.D (-1076) (-)

Ion 94.90 (94.60 to 95.60): VX003867.D (-1076) (-)

Time-->

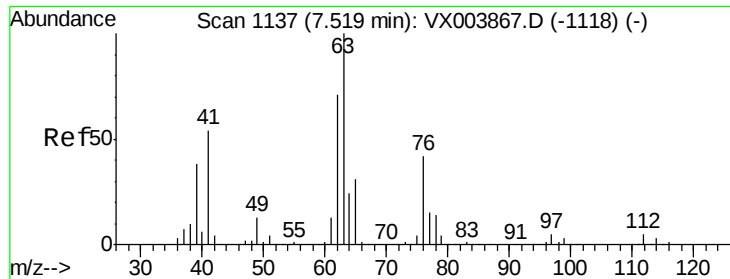


Abundance

Ion 129.80 (129.50 to 130.50): VX003867.D (-1076) (-)

Ion 94.90 (94.60 to 95.60): VX003867.D (-1076) (-)

Time-->



#45

1,2-Dichloropropane

Concen: 4.91 ug/l

RT: 7.52 min Scan# 1137

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 63 Resp: 22367

Ion Ratio Lower Upper

63 100

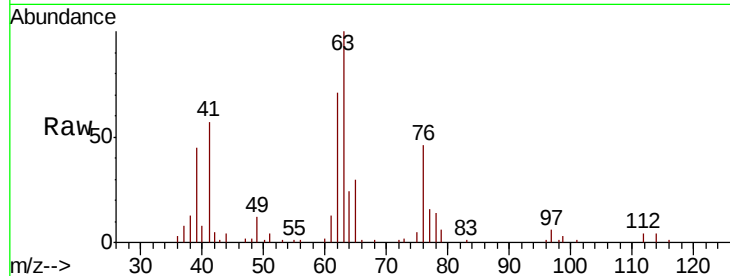
65 30.0 24.6 36.8

Manual Integrations

APPROVED

MMDadoda

8/7/2018 1:12:44 PM



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 64.90 (64.60 to 65.60): VX0

7.52

12000

10000

8000

6000

4000

2000

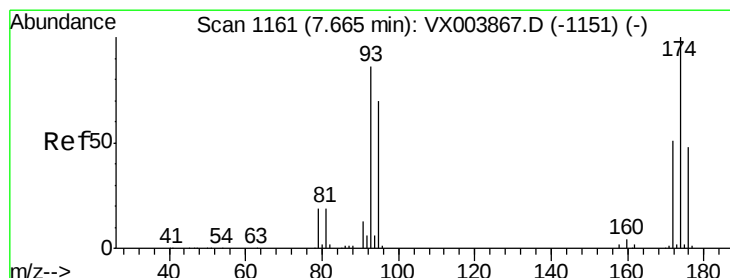
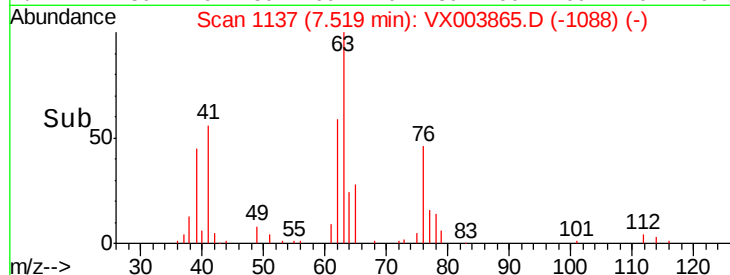
0

Time-->

7.40

7.50

7.60



#46

Dibromomethane

Concen: 4.91 ug/l

RT: 7.67 min Scan# 1161

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

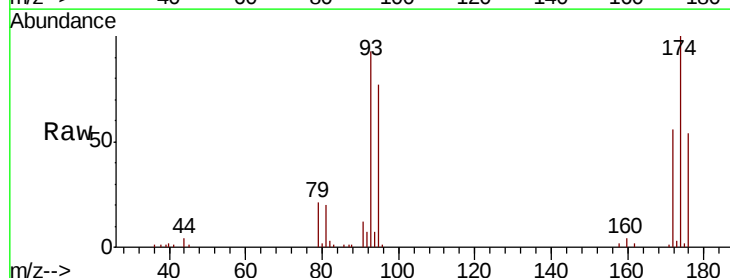
Tgt Ion: 93 Resp: 14359

Ion Ratio Lower Upper

93 100

95 85.5 66.4 99.6

174 116.0 94.3 141.5



Abundance Ion 92.80 (92.50 to 93.50): VX0

Ion 94.80 (94.50 to 95.50): VX0

Ion 173.70 (173.40 to 174.40): V

10000

8000

6000

4000

2000

0

Time-->

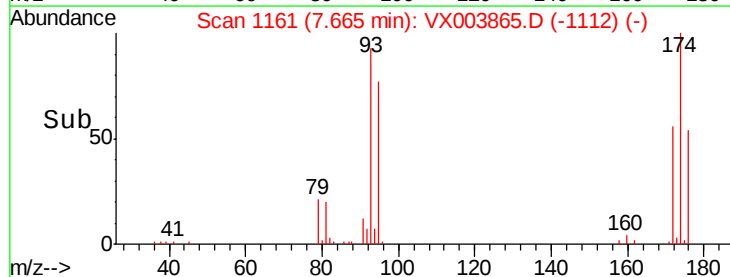
7.55

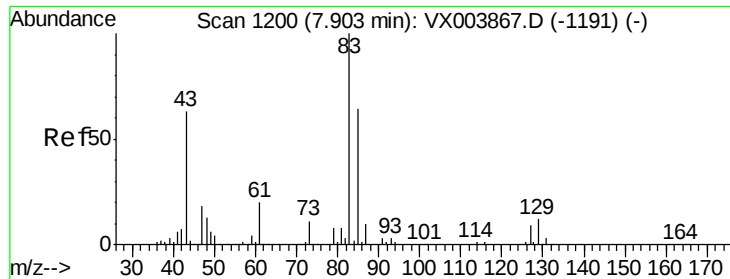
7.60

7.65

7.70

7.75





#47

Bromodichloromethane

Concen: 4.75 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

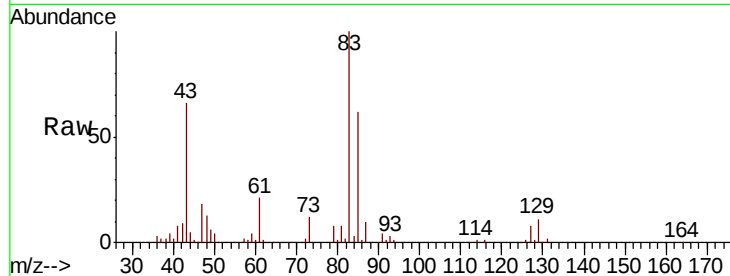
ClientSampleId :

VSTDIC005

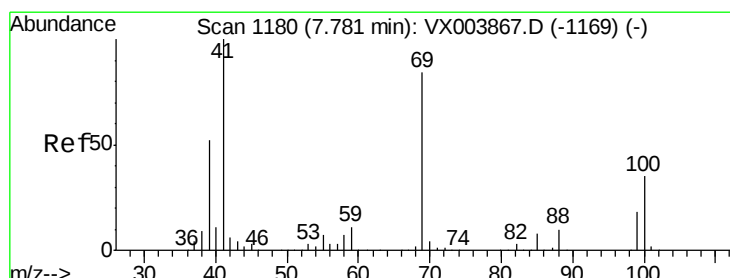
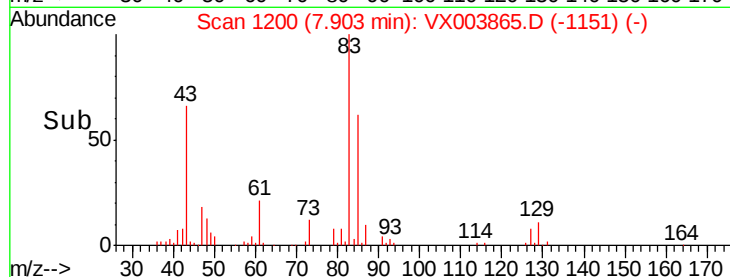
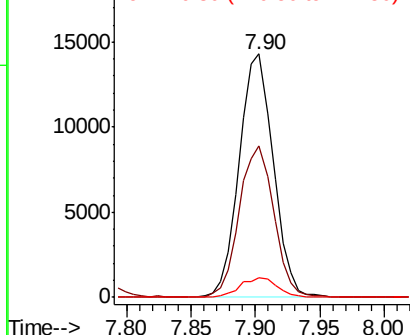
Tot Ion:	83	Resp:	26270
Ion	Ratio	Lower	Upper
83	100		
85	62.1	51.2	76.8
127	8.2	7.2	10.8

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 84.90 (84.60 to 85.60): VX0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 4.52 ug/l

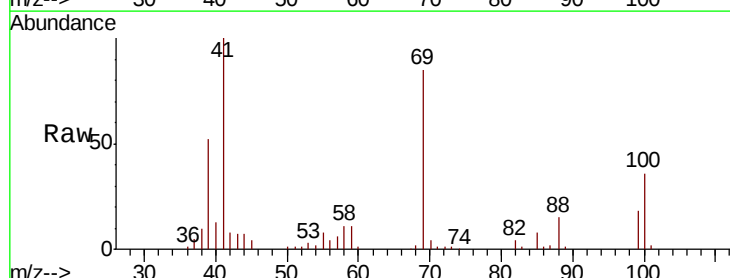
RT: 7.78 min Scan# 1180

Delta R.T. 0.00 min

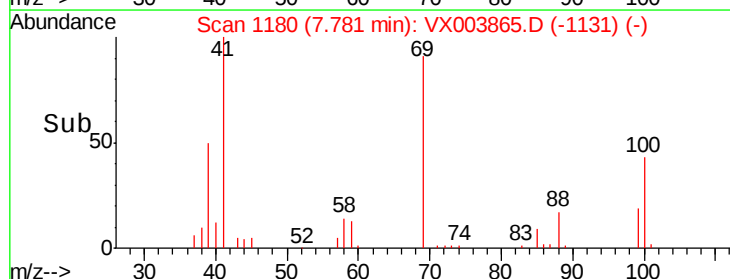
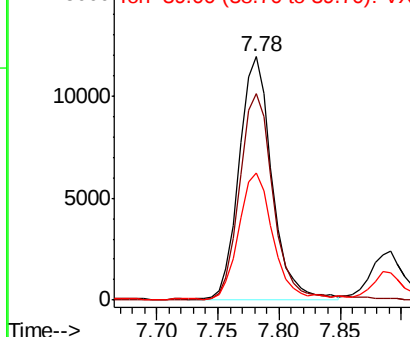
Lab File: VX003865.D

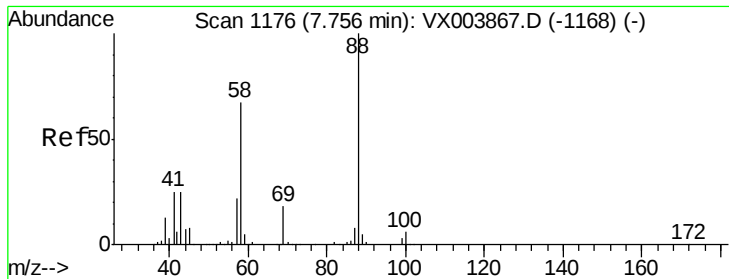
Acq: 06 Aug 2018 16:53

Tgt Ion:	41	Resp:	22414
Ion	Ratio	Lower	Upper
41	100		
69	87.5	68.8	103.2
39	54.5	42.3	63.5



Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 69.00 (68.70 to 69.70): VX0
Ion 39.00 (38.70 to 39.70): VX0





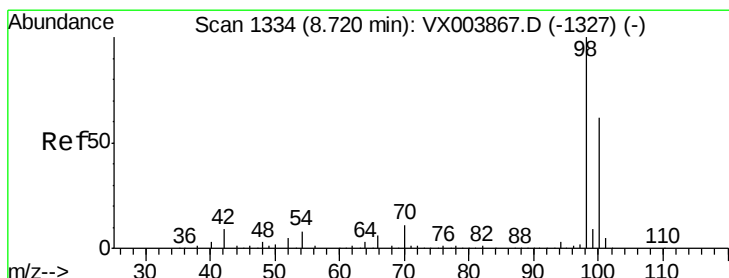
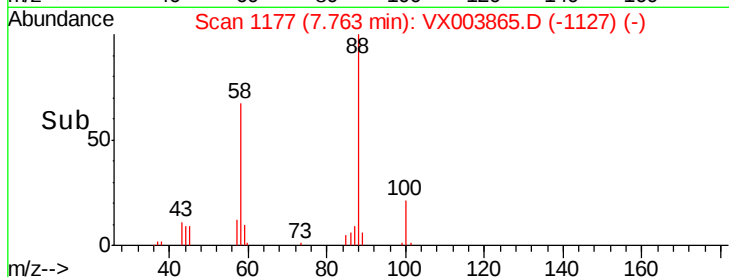
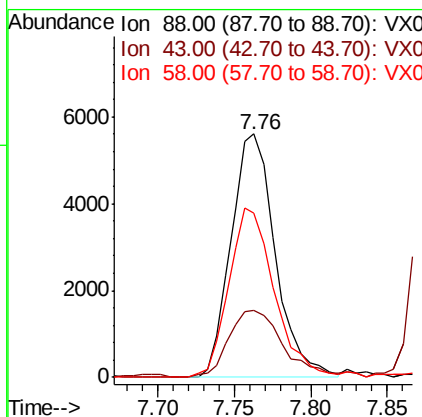
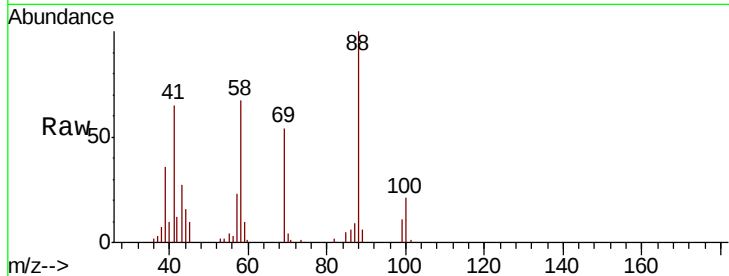
#49
1,4-Dioxane
Concen: 95.63 ug/l
RT: 7.76 min Scan# 1177
Delta R.T. 0.01 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.4	23.8	35.8
58	71.2	55.4	83.0

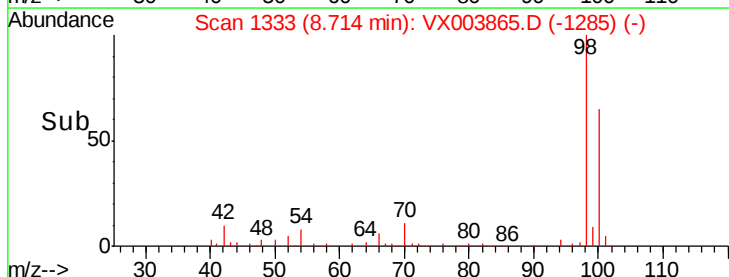
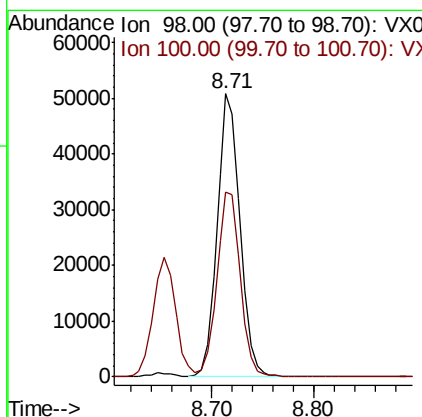
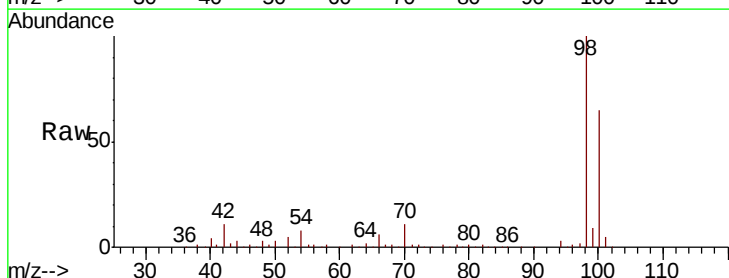
Manual Integrations
APPROVED

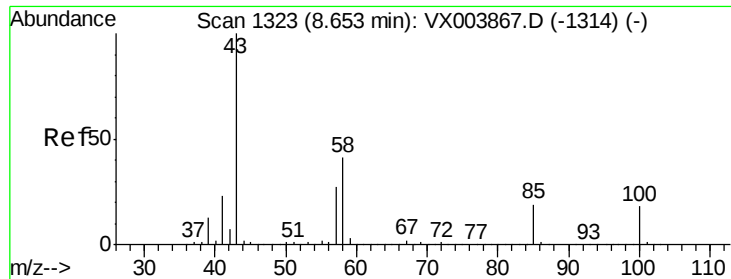
MMDadoda
8/7/2018 1:12:44 PM



#50
Toluene-d8
Concen: 4.98 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.01 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.3	53.3	79.9





#51

4-Methyl-2-Pentanone

Concen: 23.60 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 193059

Ion Ratio Lower Upper

43 100

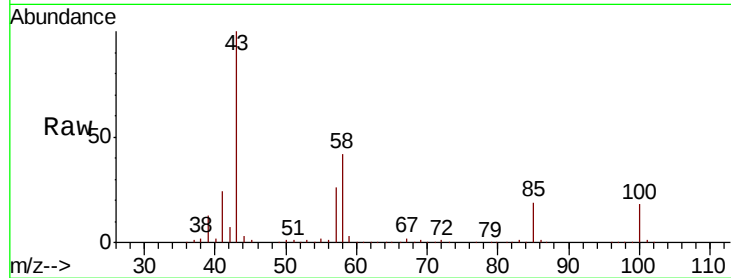
58 40.6 33.0 49.6

Manual Integrations

APPROVED

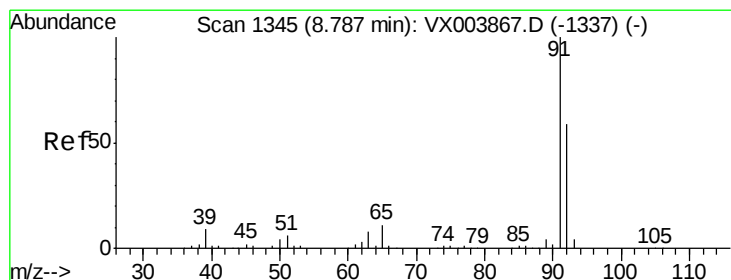
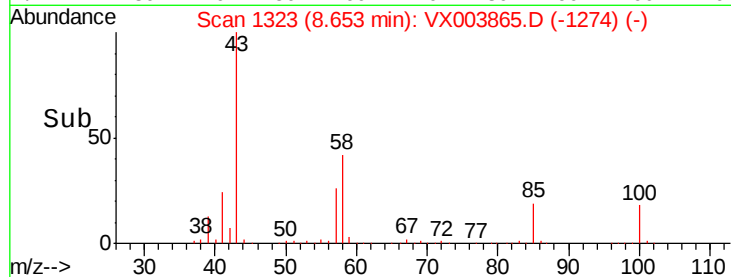
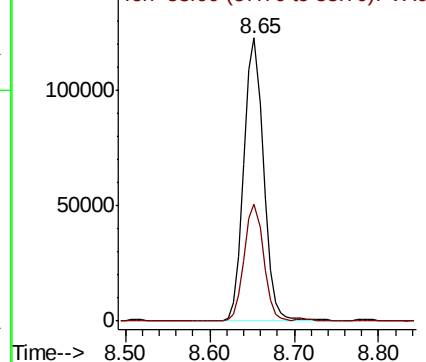
MMDadoda

8/7/2018 1:12:44 PM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 5.04 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. 0.00 min

Lab File: VX003865.D

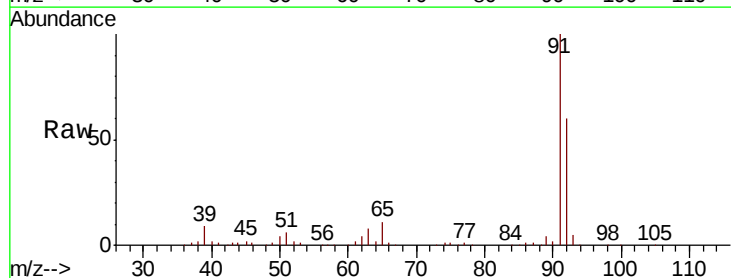
Acq: 06 Aug 2018 16:53

Tgt Ion: 92 Resp: 54881

Ion Ratio Lower Upper

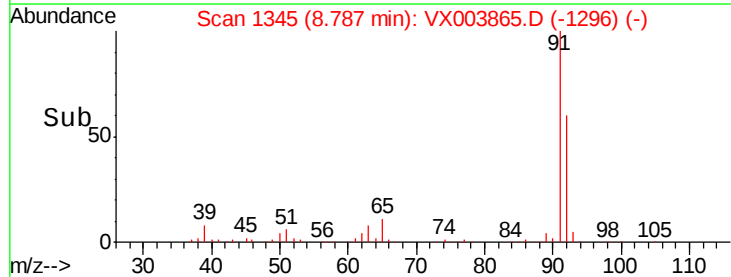
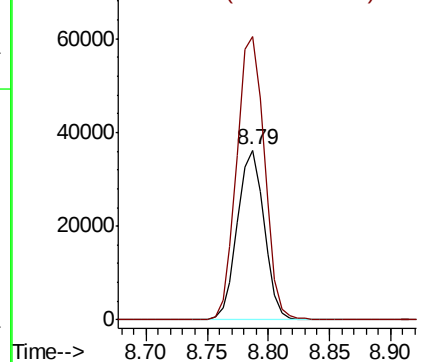
92 100

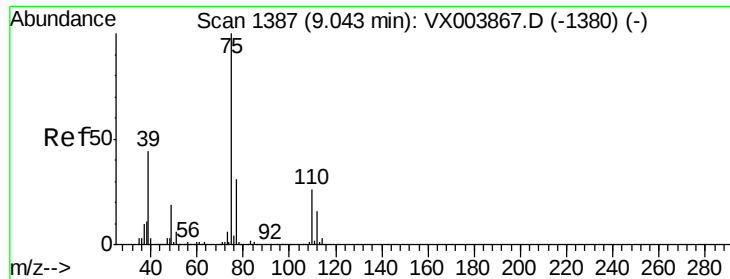
91 172.9 136.1 204.1



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





#53

t-1,3-Dichloropropene

Concen: 4.65 ug/l

RT: 9.04 min Scan# 1387

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 75 Resp: 28113

Ion Ratio Lower Upper

75 100

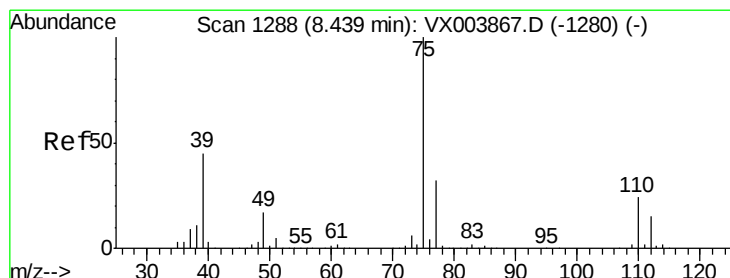
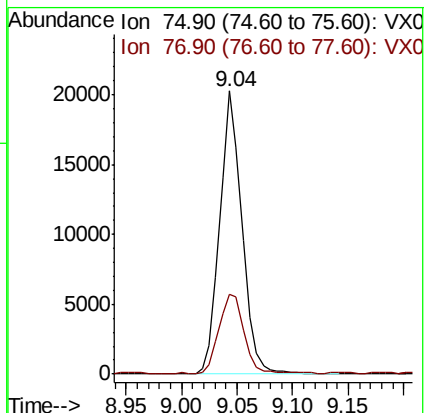
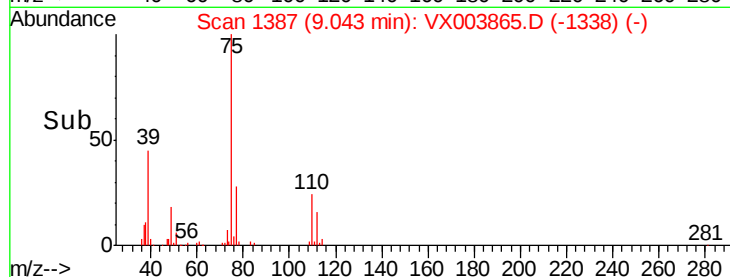
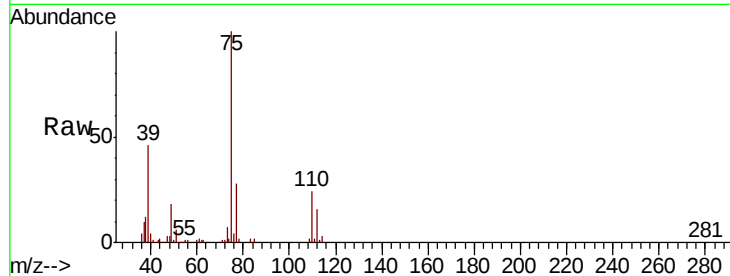
77 28.0 25.1 37.7

Manual Integrations

APPROVED

MMDadoda

8/7/2018 1:12:44 PM



#54

cis-1,3-Dichloropropene

Concen: 4.79 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

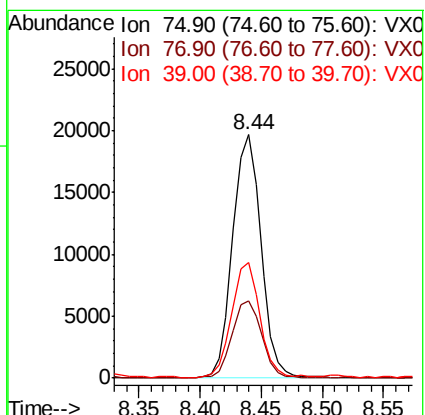
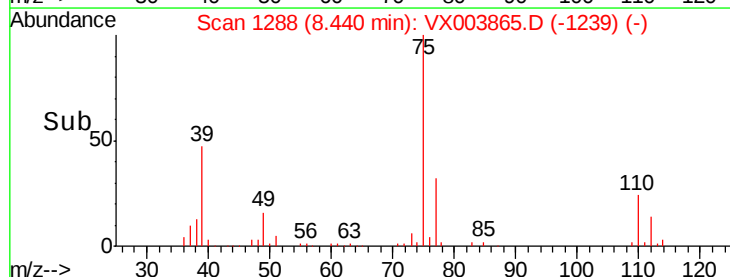
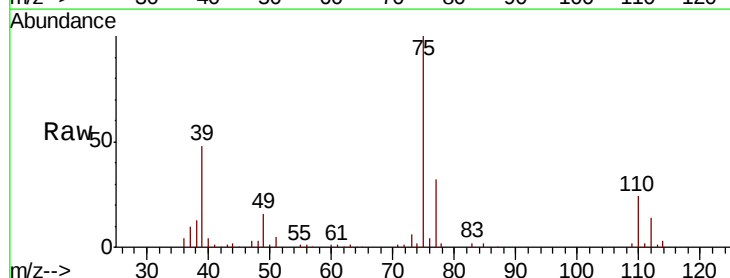
Tgt Ion: 75 Resp: 31609

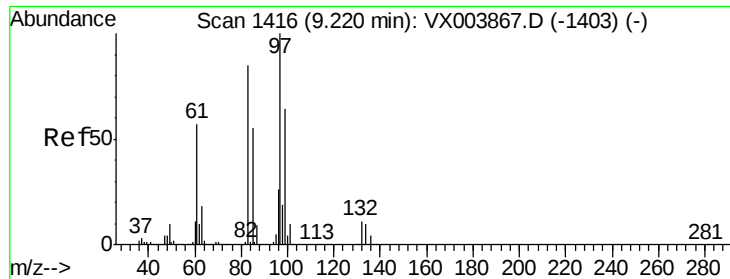
Ion Ratio Lower Upper

75 100

77 31.7 25.3 37.9

39 47.2 36.2 54.2





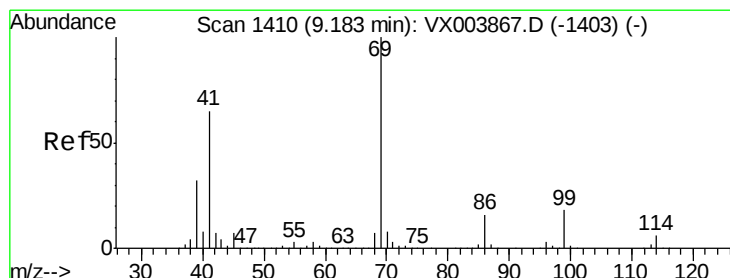
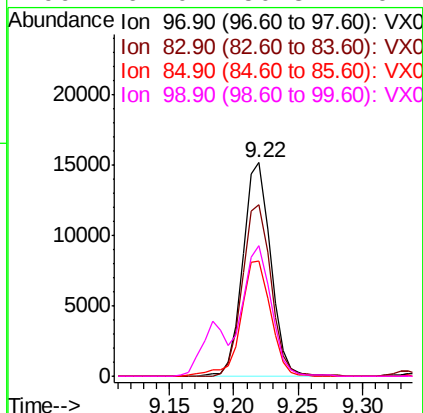
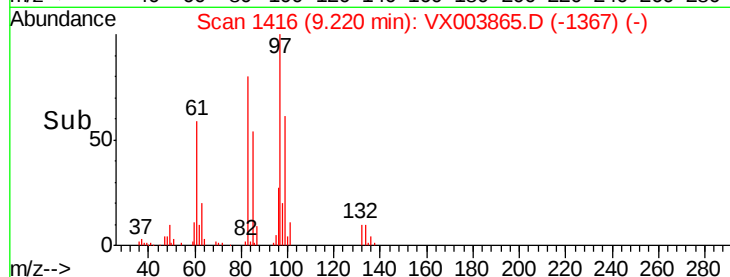
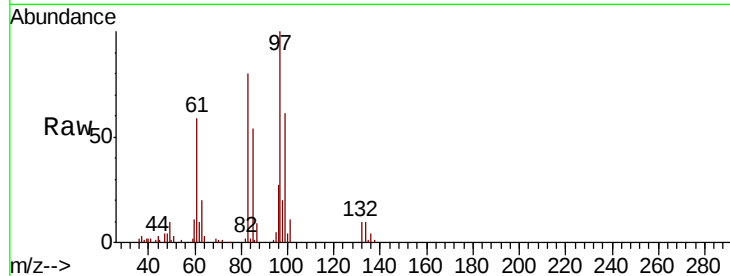
#55
 1,1,2-Trichloroethane
 Concen: 4.95 ug/l
 RT: 9.22 min Scan# 1416
 Delta R.T. 0.00 min
 Lab File: VX003865.D
 Acq: 06 Aug 2018 16:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
97	100		
83	80.2	67.8	101.6
85	54.2	44.2	66.2
99	61.0	50.8	76.2

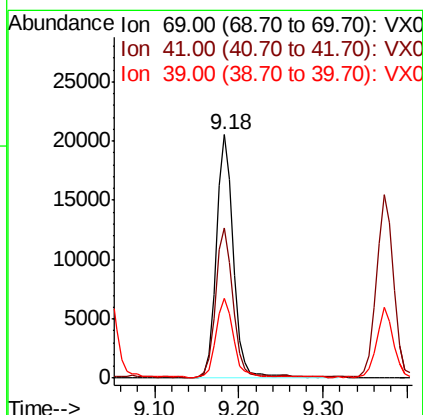
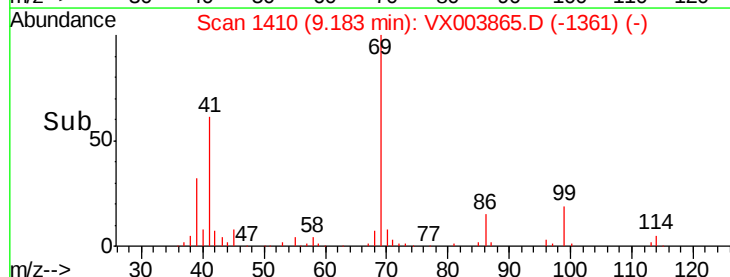
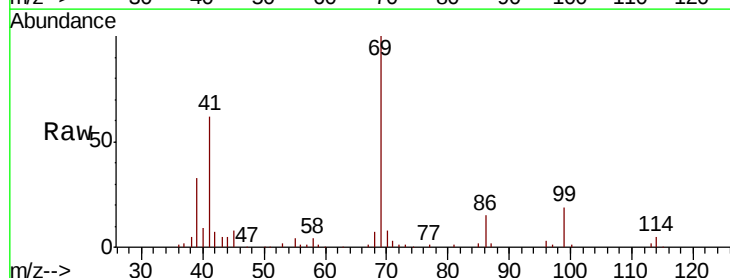
Manual Integrations
 APPROVED

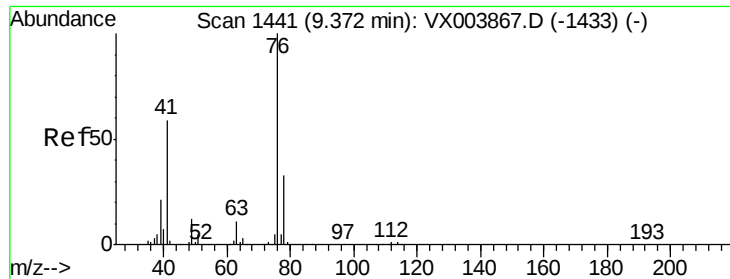
MMDadoda
 8/7/2018 1:12:44 PM



#56
 Ethyl methacrylate
 Concen: 4.55 ug/l
 RT: 9.18 min Scan# 1410
 Delta R.T. 0.00 min
 Lab File: VX003865.D
 Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
69	100		
41	61.5	50.6	76.0
39	32.9	25.8	38.6





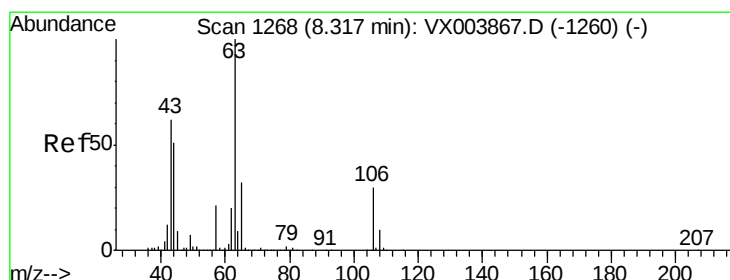
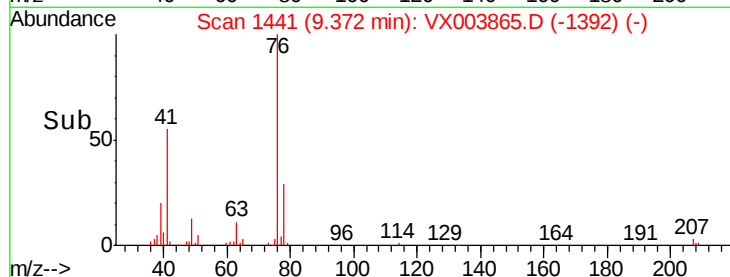
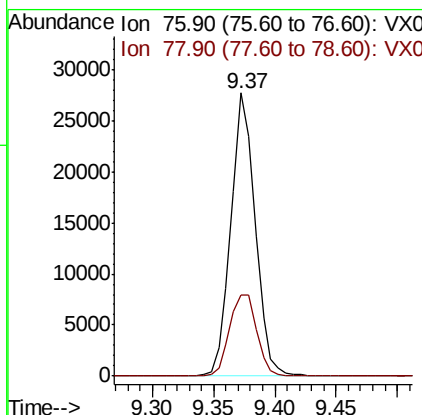
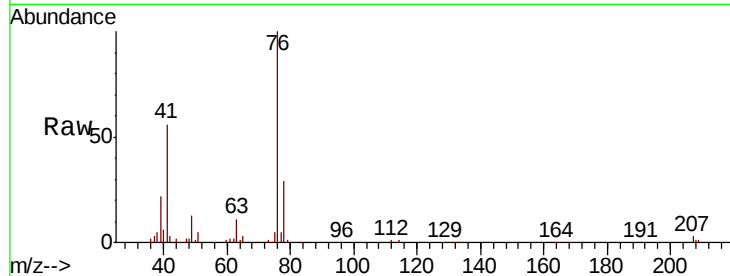
#57
 1,3-Dichloropropane
 Concen: 5.12 ug/l
 RT: 9.37 min Scan# 1441
 Delta R.T. 0.00 min
 Lab File: VX003865.D
 Acq: 06 Aug 2018 16:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
76	100		
78	32.3	25.9	38.9

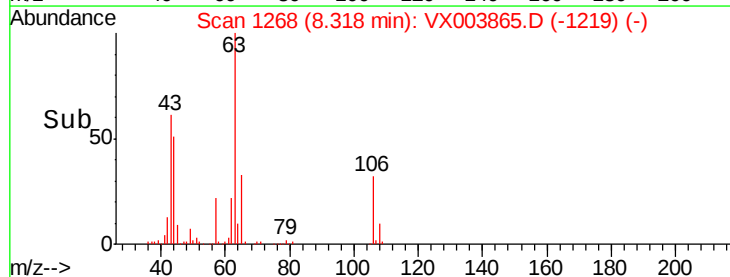
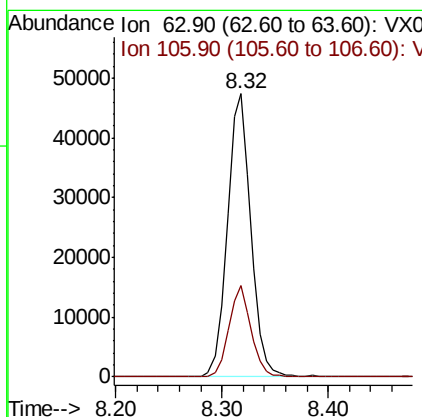
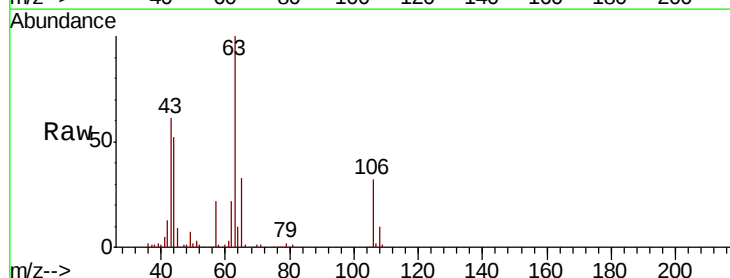
Manual Integrations
 APPROVED

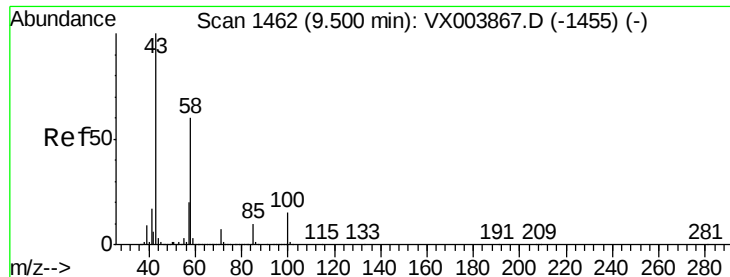
MMDadoda
 8/7/2018 1:12:44 PM



#58
 2-Chloroethyl Vinyl ether
 Concen: 22.35 ug/l
 RT: 8.32 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VX003865.D
 Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
63	100		
106	30.4	23.8	35.8





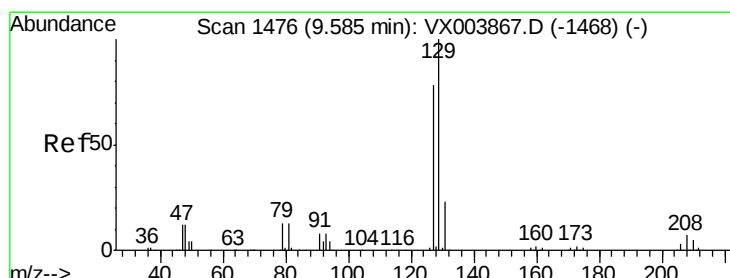
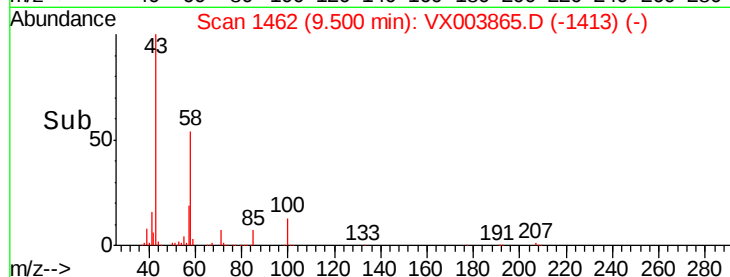
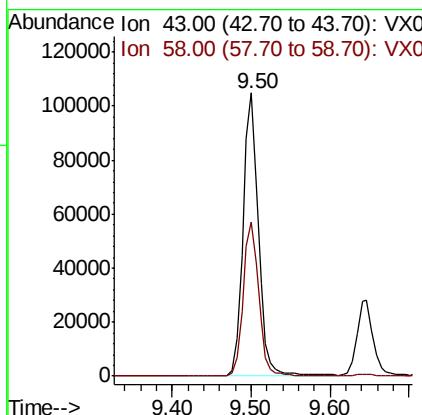
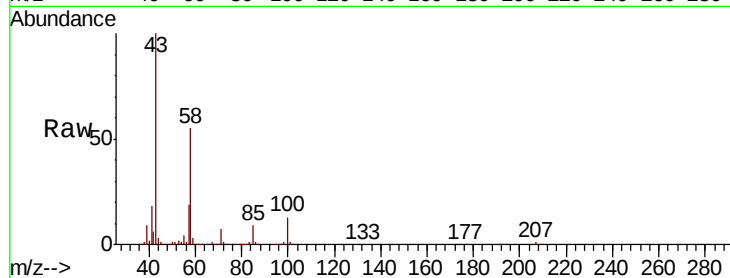
#59
2-Hexanone
Concen: 22.87 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 142684
Ion Ratio Lower Upper
43 100
58 54.8 29.0 87.0

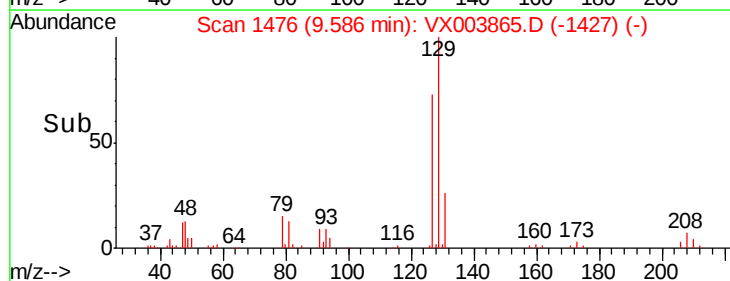
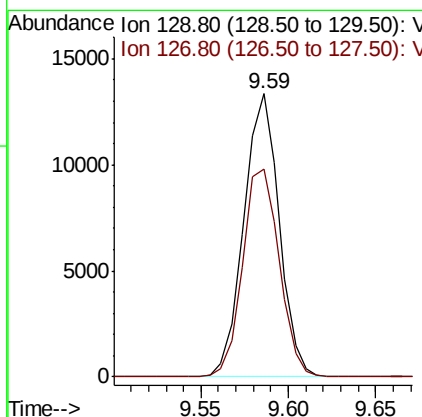
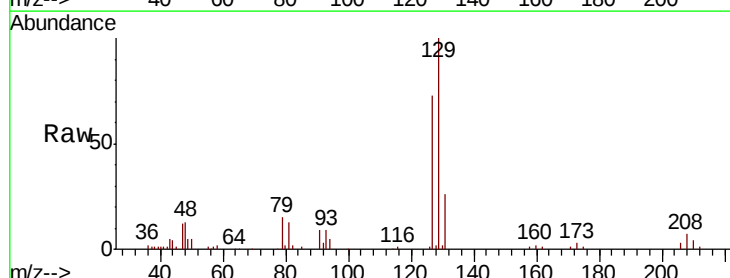
Manual Integrations
APPROVED

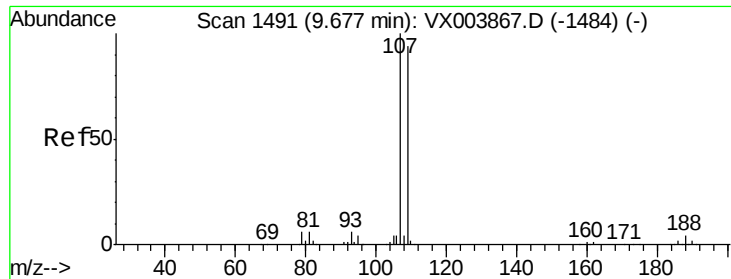
MMDadoda
8/7/2018 1:12:44 PM



#60
Dibromochloromethane
Concen: 4.23 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion: 129 Resp: 18791
Ion Ratio Lower Upper
129 100
127 76.0 38.8 116.3





#61

1,2-Dibromoethane

Concen: 4.68 ug/l

RT: 9.68 min Scan# 1491

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 107 Resp: 21769

Ion Ratio Lower Upper

107 100

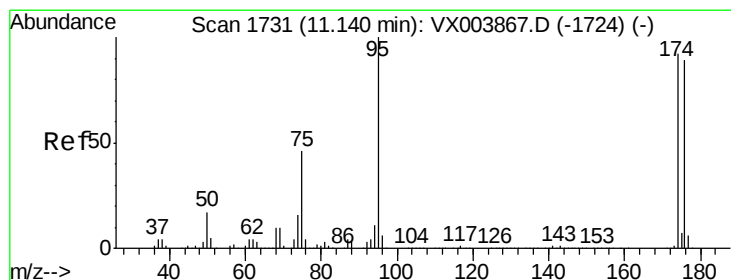
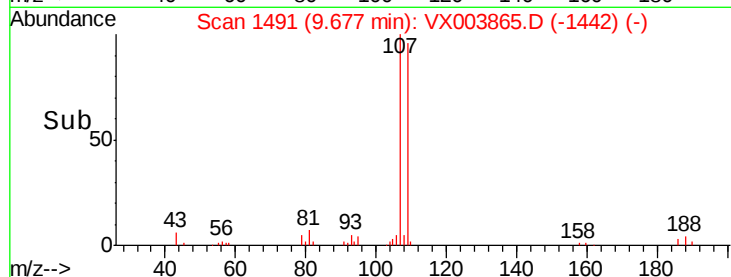
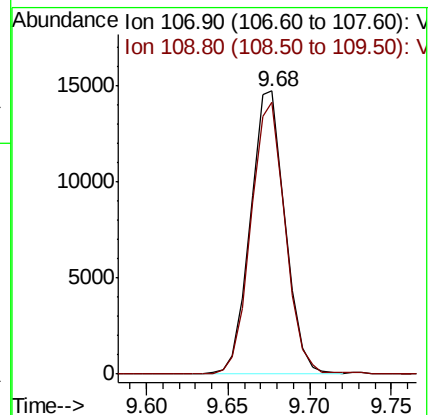
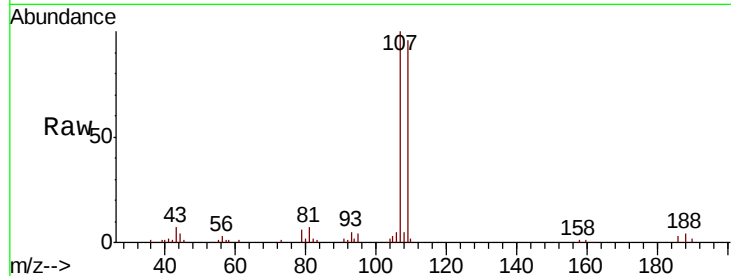
109 95.3 75.8 113.8

Manual Integrations

APPROVED

MMDadoda

8/7/2018 1:12:44 PM



#62

4-Bromofluorobenzene

Concen: 4.16 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

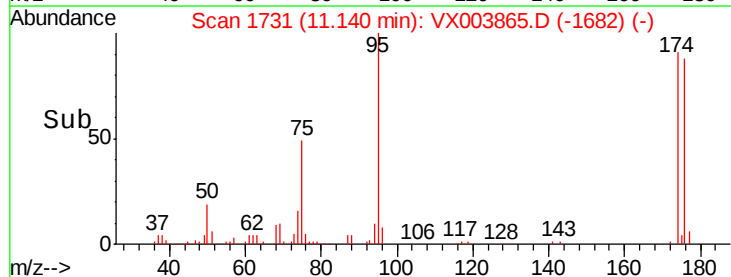
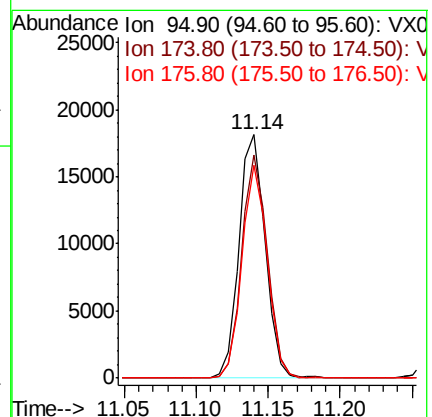
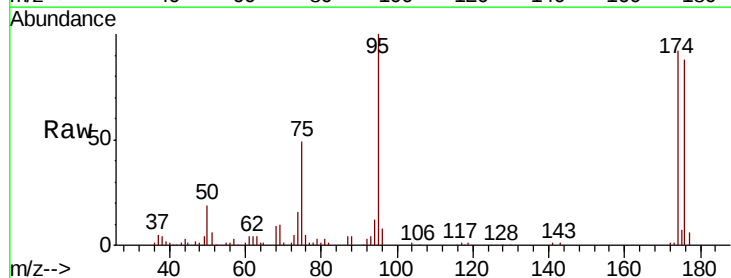
Tgt Ion: 95 Resp: 23114

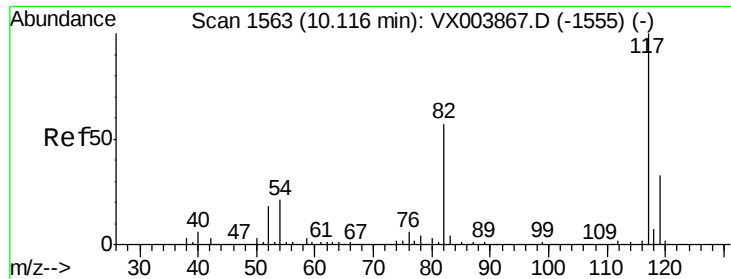
Ion Ratio Lower Upper

95 100

174 88.8 0.0 182.8

176 84.3 0.0 179.0





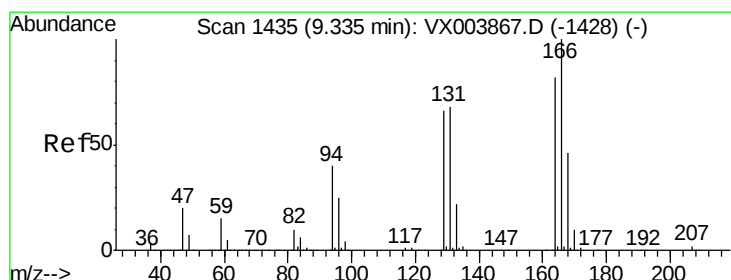
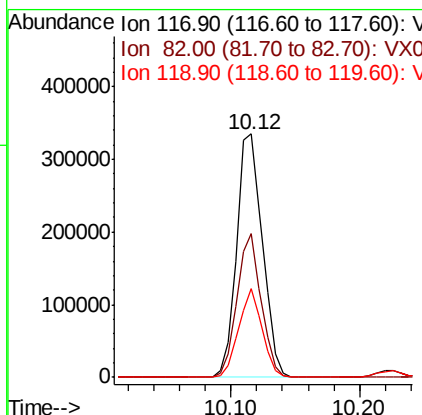
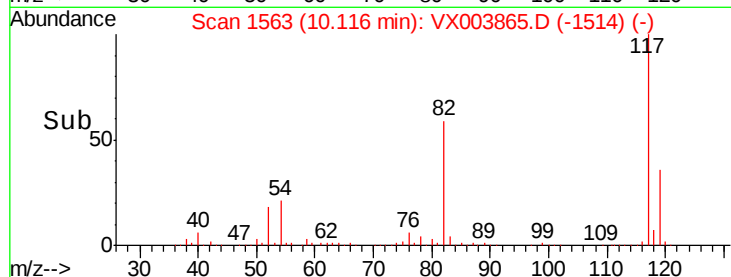
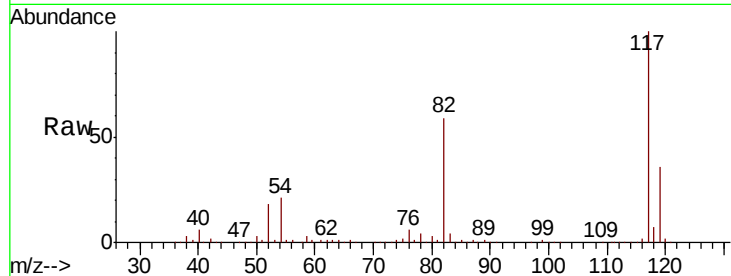
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	59.1	45.4	68.0
119	36.2	26.6	40.0

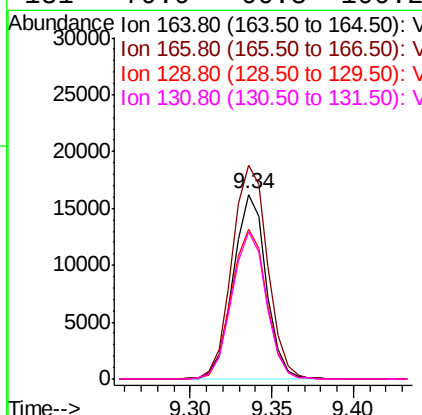
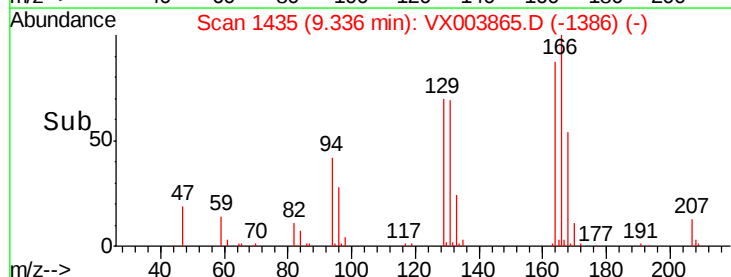
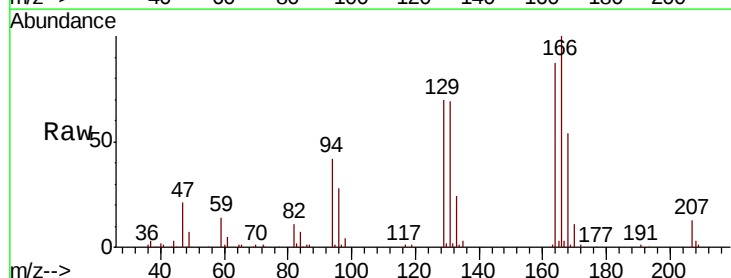
Manual Integrations
APPROVED

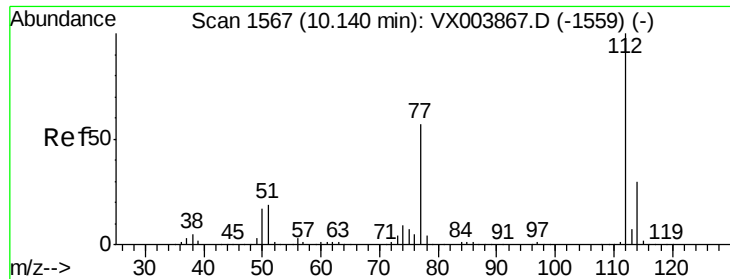
MMDadoda
8/7/2018 1:12:44 PM



#64
Tetrachloroethene
Concen: 5.30 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
164	100		
166	115.6	98.0	147.0
129	81.3	64.3	96.5
131	79.9	66.8	100.2





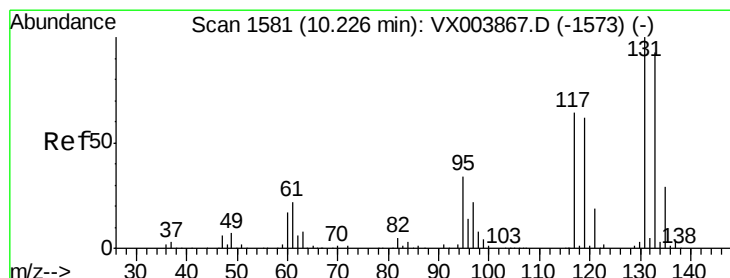
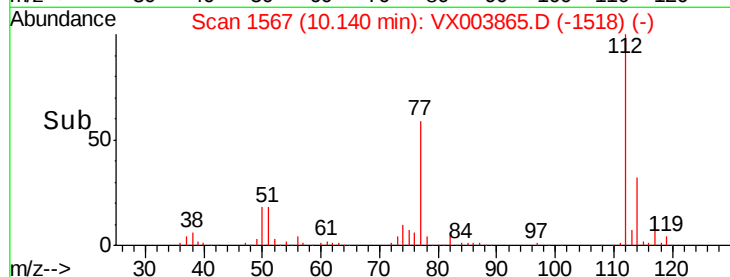
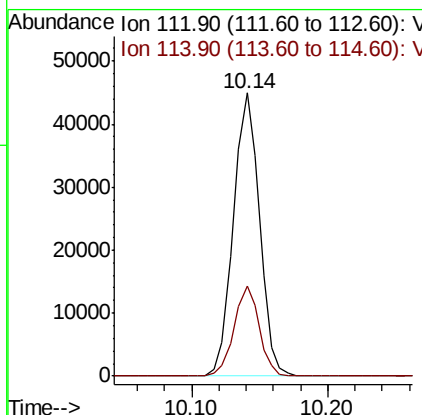
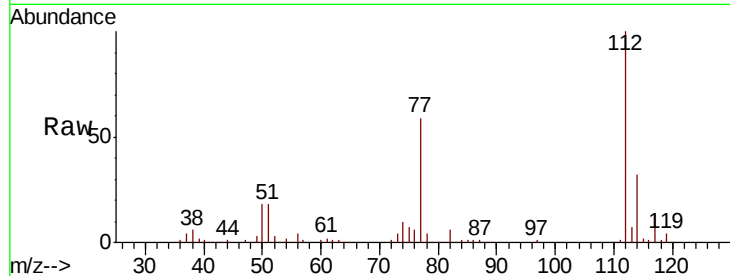
#65
Chlorobenzene
Concen: 5.17 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampled :
VSTDIC005

Tot Ion:112 Resp: 60025
Ion Ratio Lower Upper
112 100
114 31.6 23.6 35.4

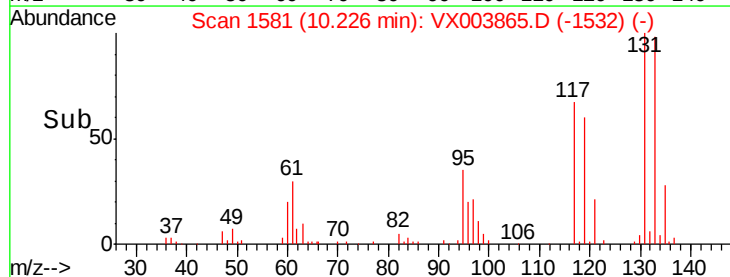
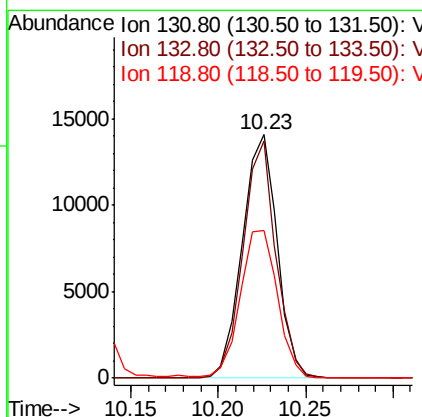
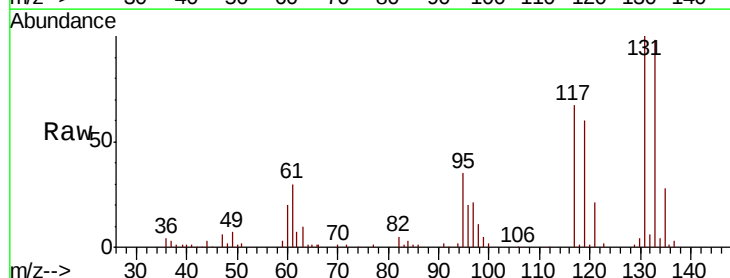
Manual Integrations
APPROVED

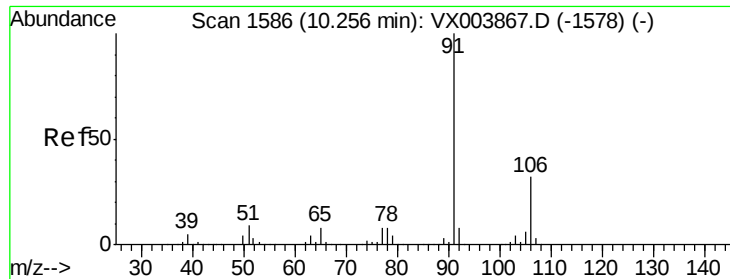
MMDadoda
8/7/2018 1:12:44 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 4.80 ug/l
RT: 10.23 min Scan# 1581
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion:131 Resp: 19547
Ion Ratio Lower Upper
131 100
133 91.9 47.3 141.8
119 64.7 31.6 94.8





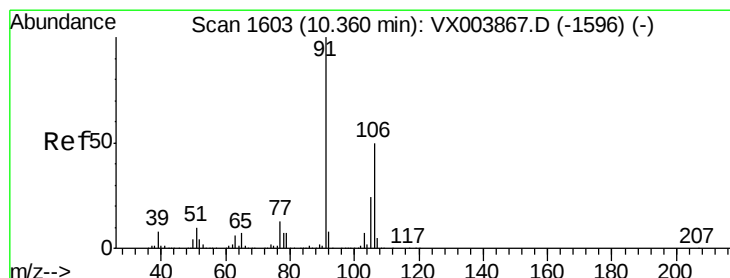
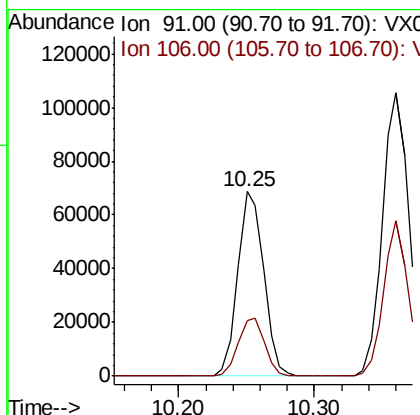
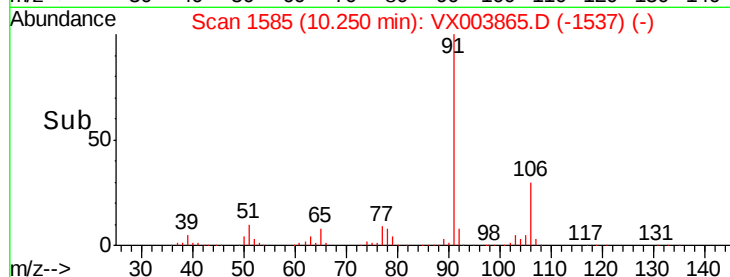
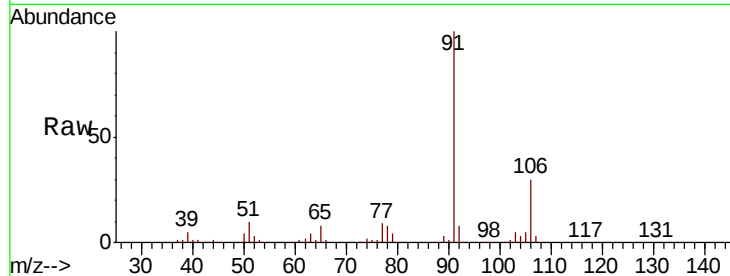
#67
Ethyl Benzene
Concen: 4.92 ug/l
RT: 10.25 min Scan# 1585
Delta R.T. -0.01 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 91808
Ion Ratio Lower Upper
91 100
106 30.0 25.9 38.9

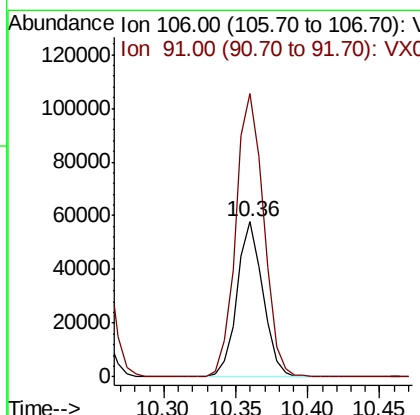
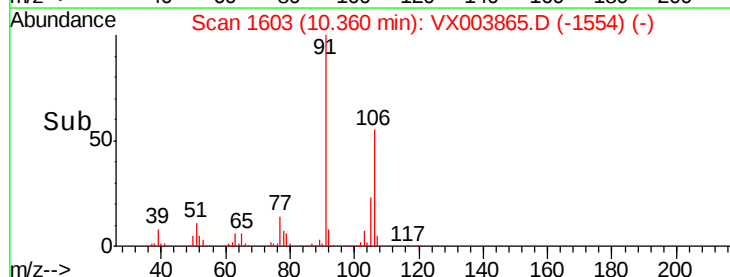
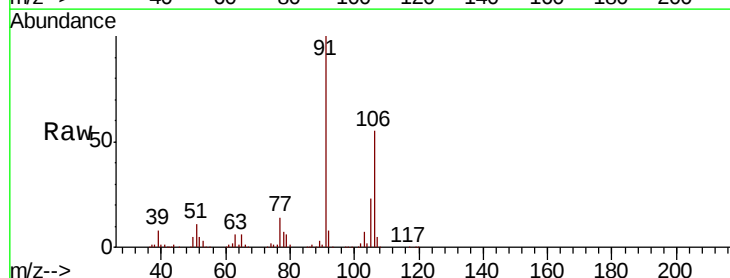
Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



#68
m/p-Xylenes
Concen: 9.98 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion: 106 Resp: 72657
Ion Ratio Lower Upper
106 100
91 196.9 162.3 243.5





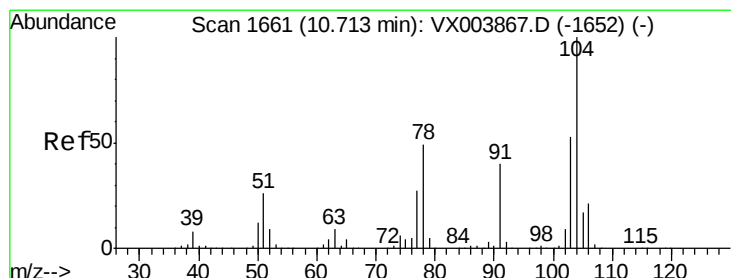
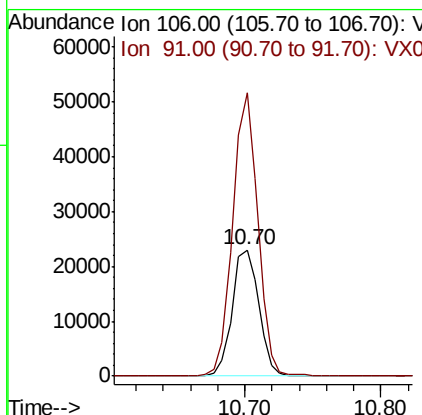
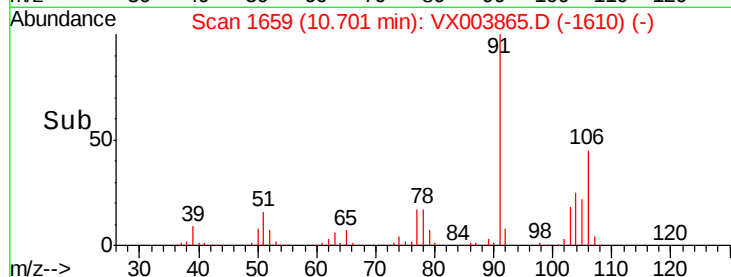
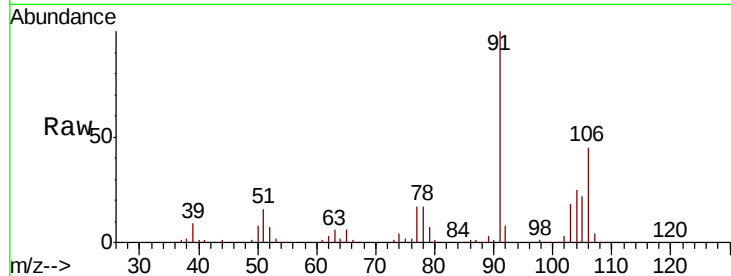
#69
o-Xylene
Concen: 4.48 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 31330
Ion Ratio Lower Upper
106 100
91 212.7 101.9 305.7

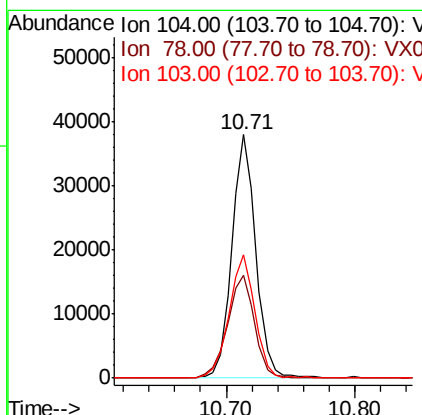
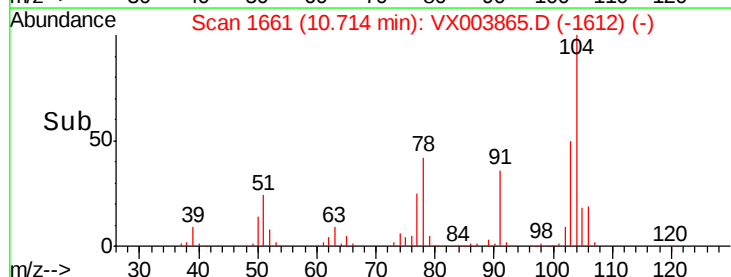
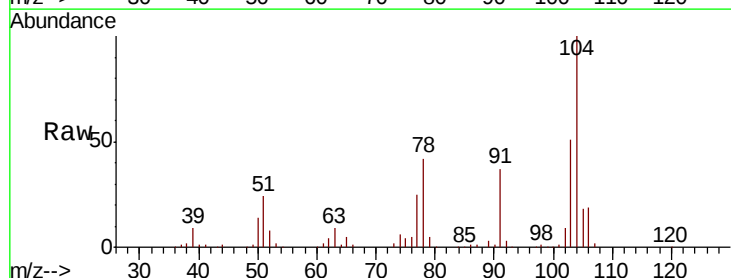
Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



#70
Styrene
Concen: 4.29 ug/l
RT: 10.71 min Scan# 1661
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion:104 Resp: 49329
Ion Ratio Lower Upper
104 100
78 47.8 39.8 59.6
103 55.0 44.3 66.5





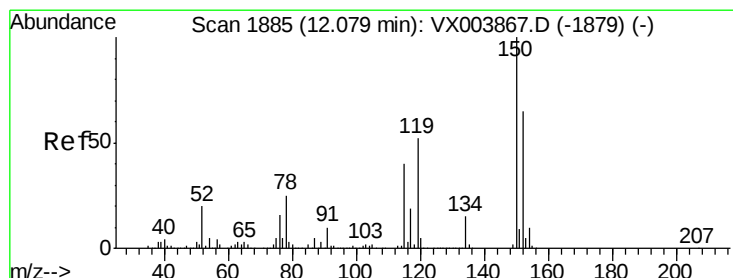
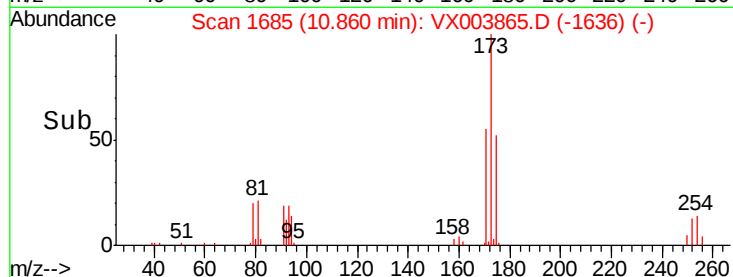
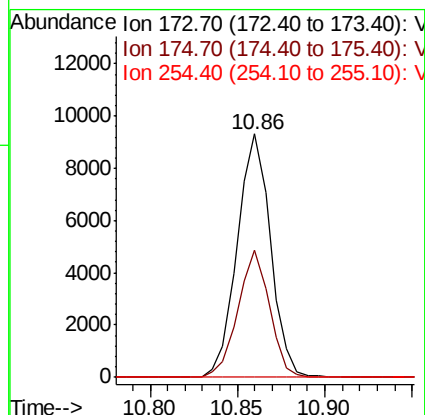
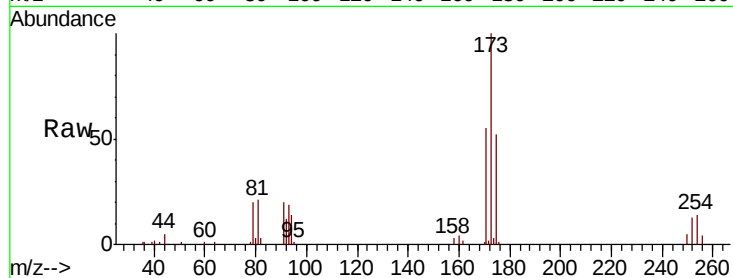
#71
Bromoform
Concen: 3.73 ug/l
RT: 10.86 min Scan# 1685
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.5	24.9	74.7
254	0.0	0.2	0.2

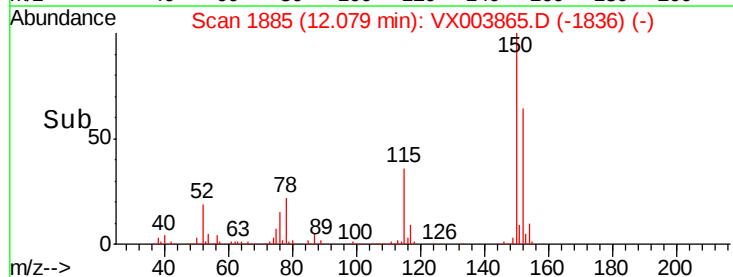
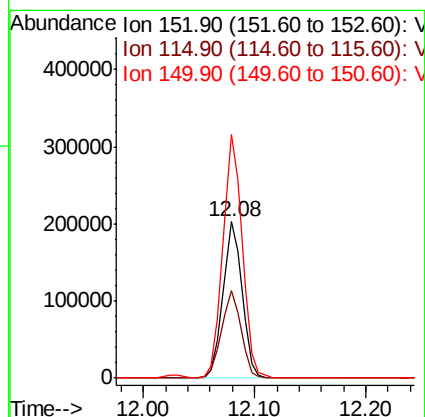
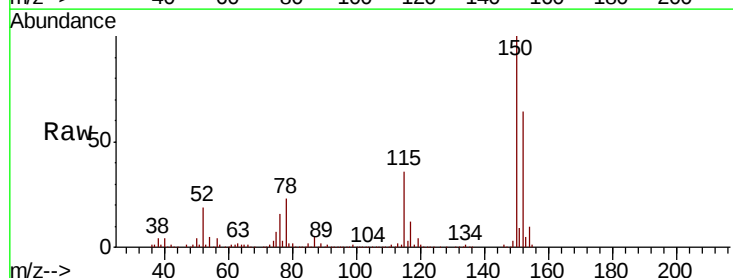
Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.6	39.1	117.3
150	157.6	0.0	349.2





#73

Isopropylbenzene

Concen: 5.09 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 82005

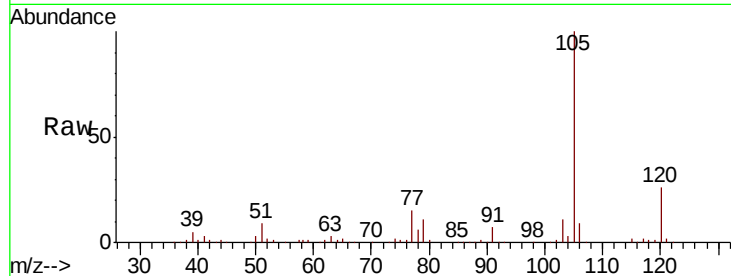
Ion Ratio Lower Upper

105 100

120 27.1 12.6 37.8

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

11.02

60000

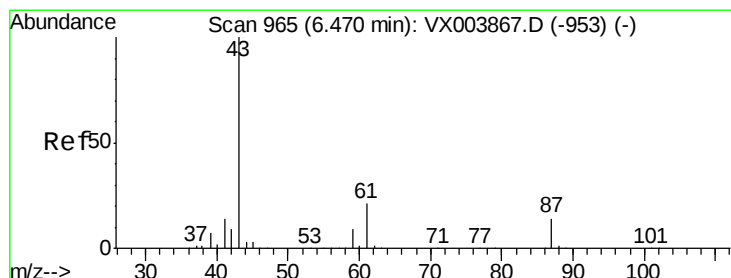
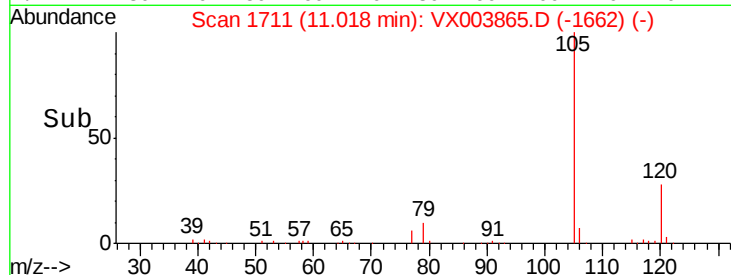
40000

20000

0

Time-->

10.95 11.00 11.05



#74

N-ethyl acetate

Concen: 5.84 ug/l

RT: 6.47 min Scan# 965

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Tgt Ion: 43 Resp: 46145

Ion Ratio Lower Upper

43 100

70 0.0 0.0 0.0

55 0.0 0.1 0.1#

61 21.6 16.9 25.3

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

25000

20000

15000

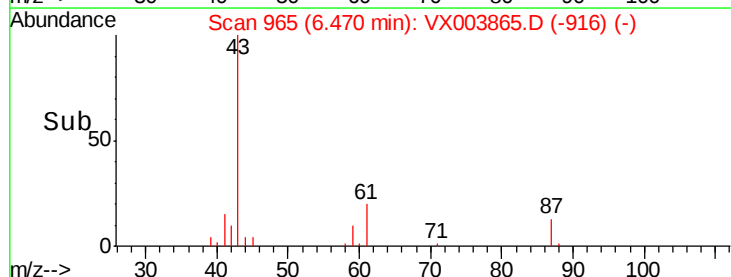
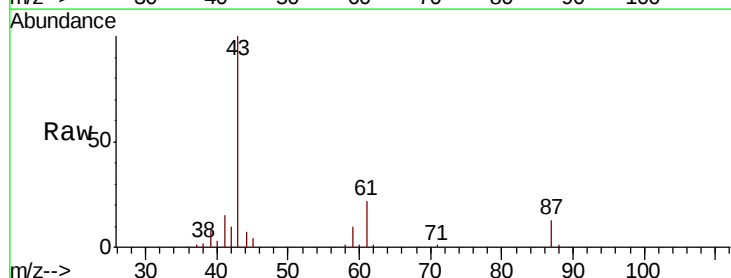
10000

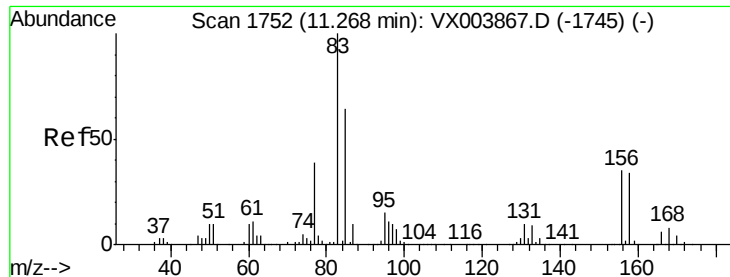
5000

0

Time-->

6.40 6.50 6.60





#75

1,1,2,2-Tetrachloroethane

Concen: 5.38 ug/l

RT: 11.27 min Scan# 1752

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

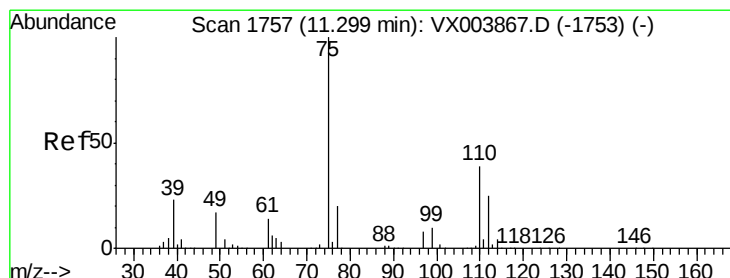
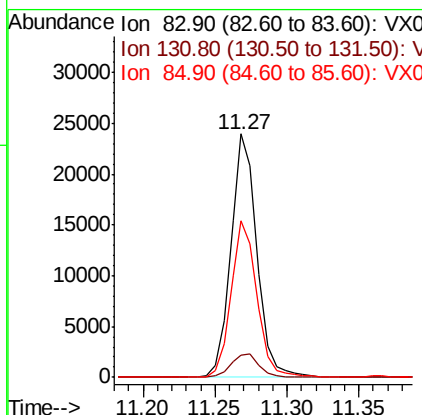
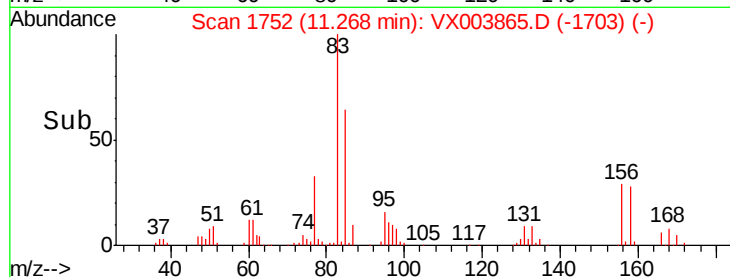
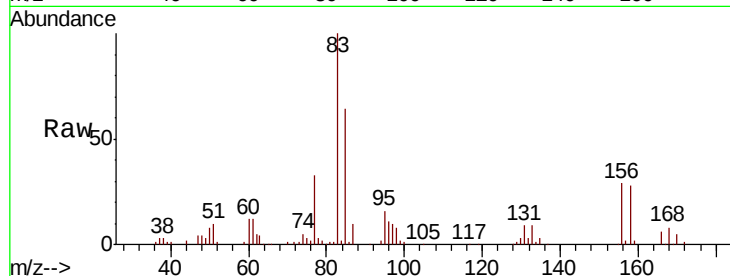
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	30355
Ion	Ratio	Lower	Upper
83	100		
131	10.5	5.2	15.6
85	64.3	32.2	96.6

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



#76

1,2,3-Trichloropropane

Concen: 5.32 ug/l m

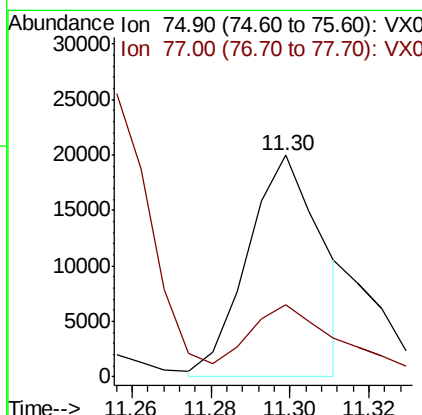
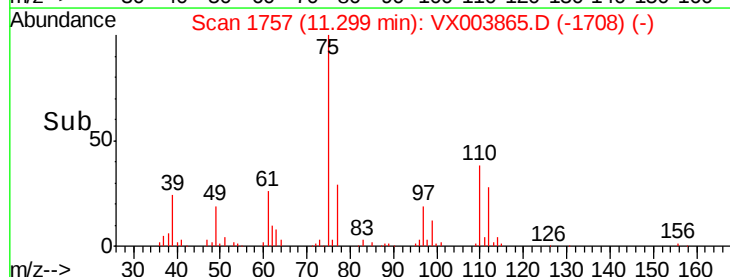
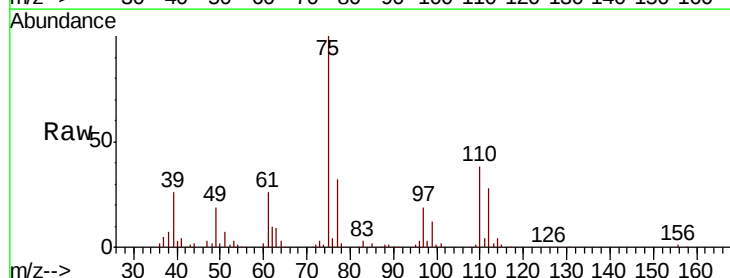
RT: 11.30 min Scan# 1757

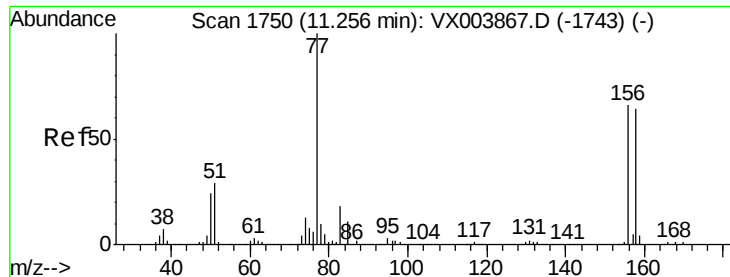
Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Tgt Ion:	75	Resp:	26031
Ion	Ratio	Lower	Upper
75	100		
77	39.9	20.8	62.5





#77

Bromobenzene

Concen: 5.19 ug/l

RT: 11.26 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:156 Resp: 22854

Ion Ratio Lower Upper

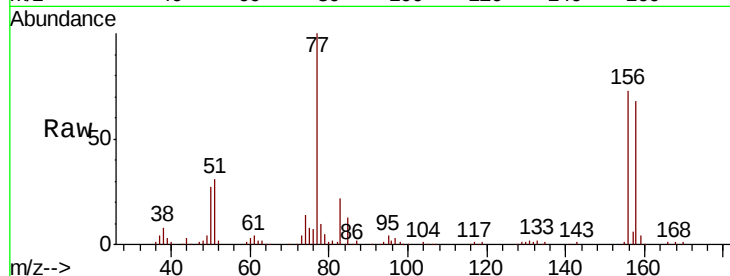
156 100

77 147.1 74.1 222.2

158 96.4 48.6 145.9

Manual Integrations
APPROVED

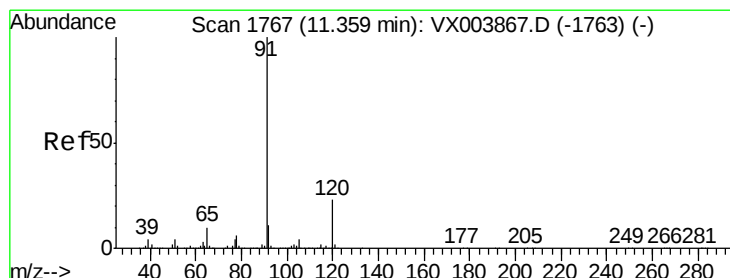
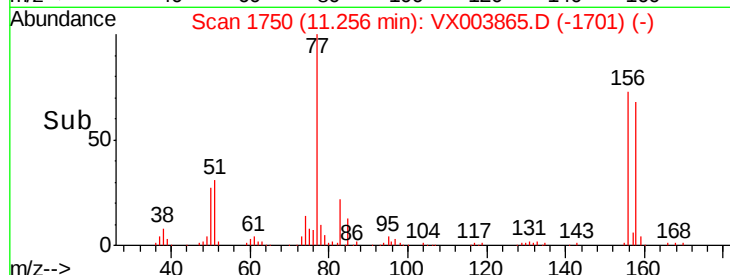
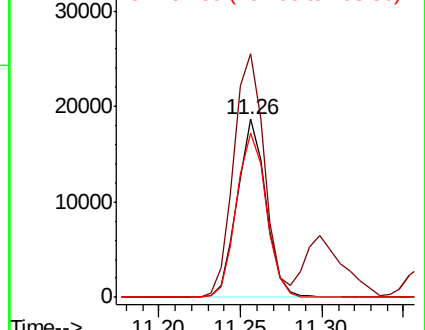
MMDadoda
8/7/2018 1:12:44 PM



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: 5.21 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. 0.00 min

Lab File: VX003865.D

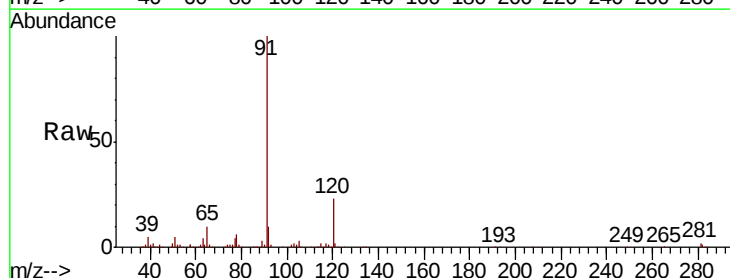
Acq: 06 Aug 2018 16:53

Tgt Ion: 91 Resp: 93462

Ion Ratio Lower Upper

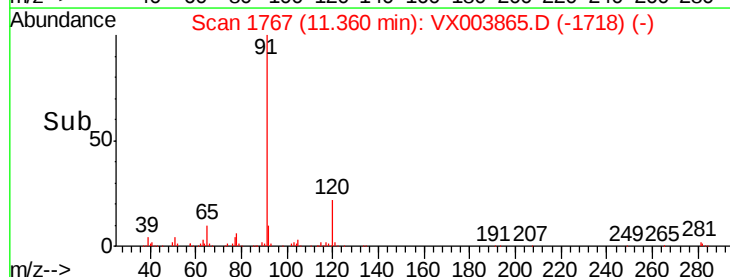
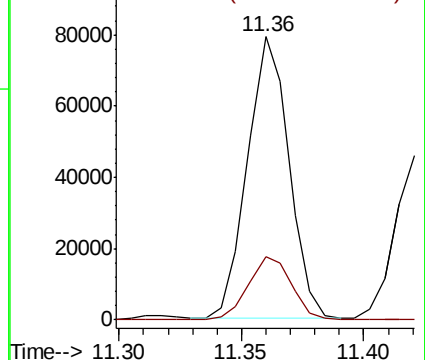
91 100

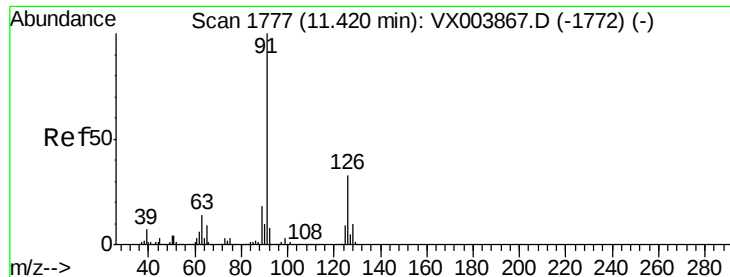
120 23.7 11.9 35.5



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.32 ug/l

RT: 11.42 min Scan# 1777

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 58269

Ion Ratio Lower Upper

91 100

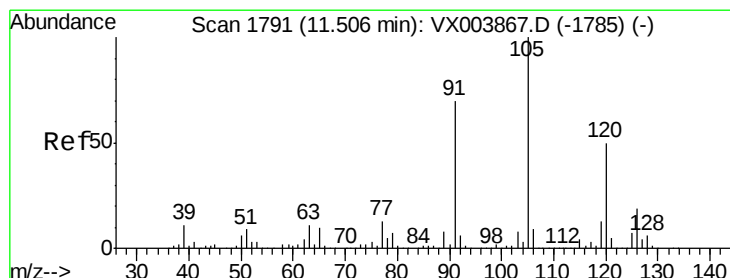
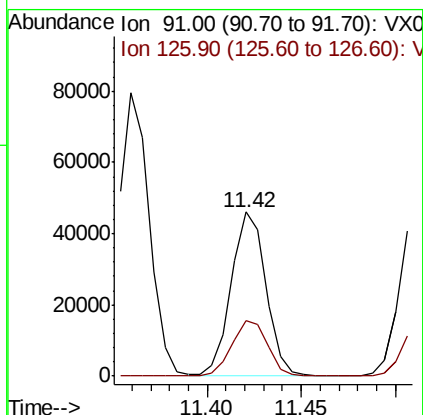
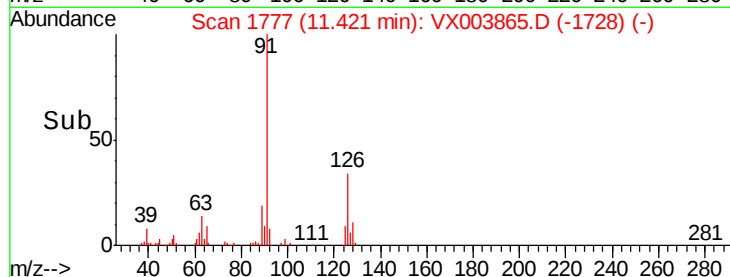
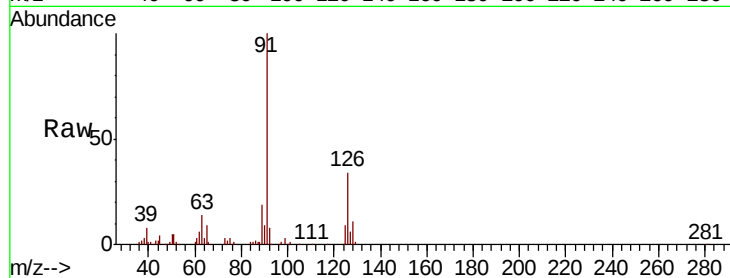
126 35.0 17.4 52.3

Manual Integrations

APPROVED

MMDadoda

8/7/2018 1:12:44 PM



#80

1,3,5-Trimethylbenzene

Concen: 5.14 ug/l

RT: 11.51 min Scan# 1791

Delta R.T. 0.00 min

Lab File: VX003865.D

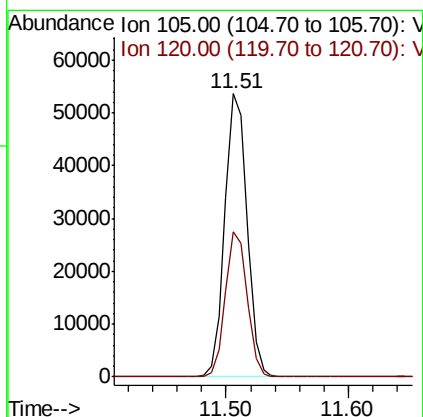
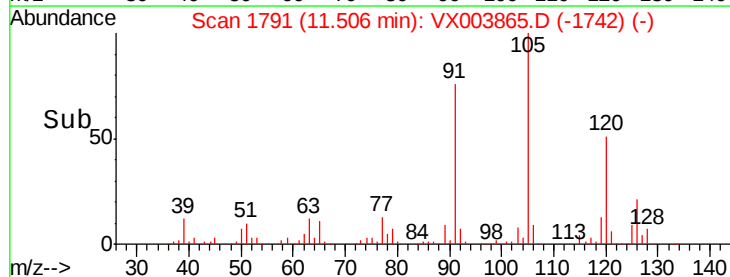
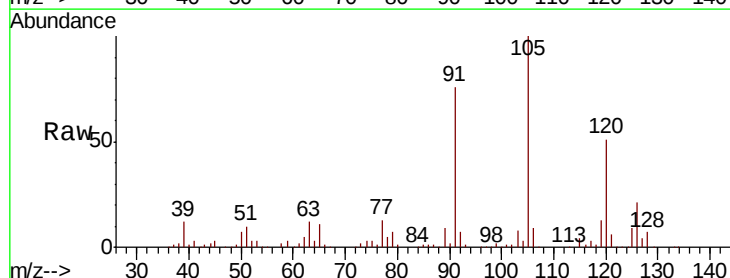
Acq: 06 Aug 2018 16:53

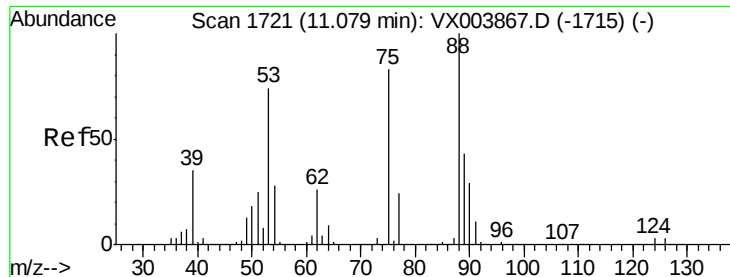
Tgt Ion: 105 Resp: 67699

Ion Ratio Lower Upper

105 100

120 50.3 25.4 76.2





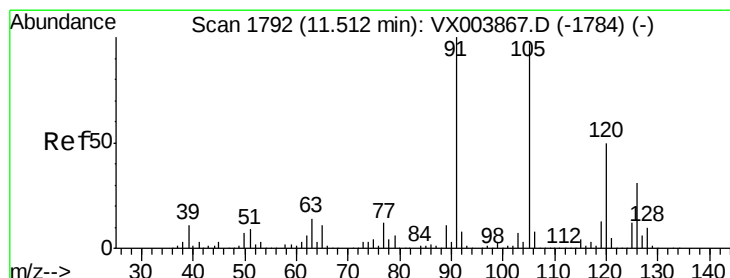
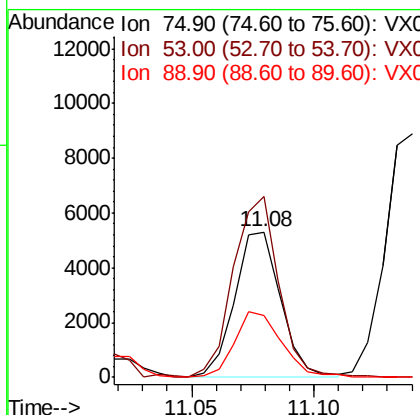
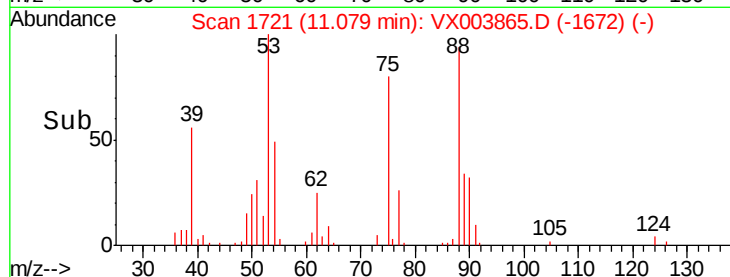
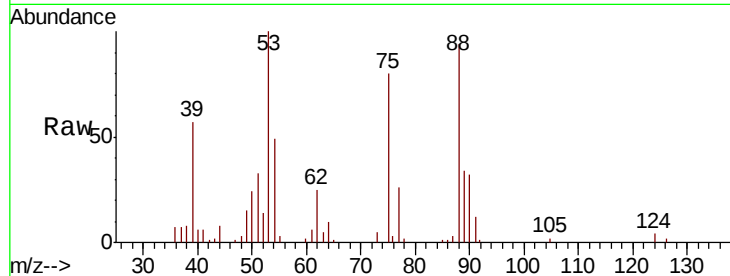
#81
trans-1,4-Dichloro-2-butene
Concen: 4.45 ug/l
RT: 11.08 min Scan# 1721
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	122.9	80.3	120.5#
89	46.4	37.8	56.8

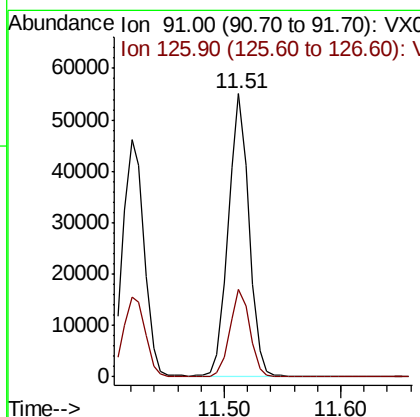
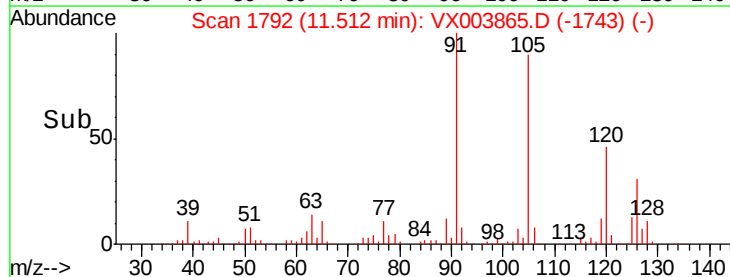
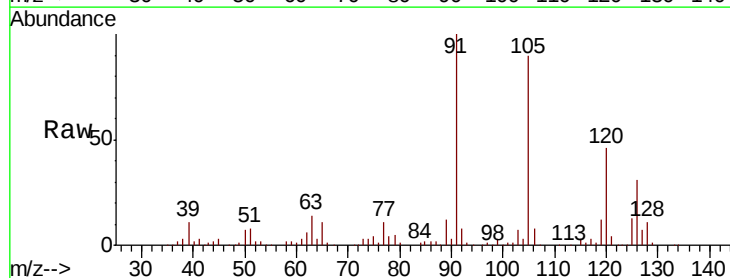
Manual Integrations
APPROVED

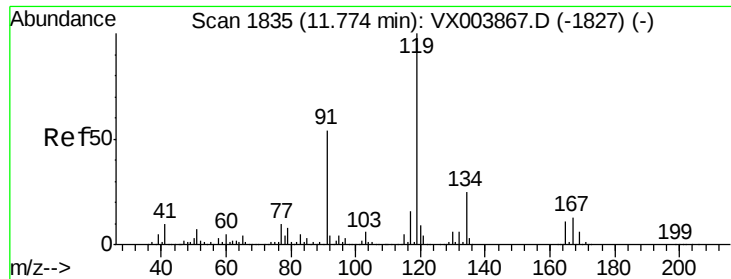
MMDadoda
8/7/2018 1:12:44 PM



#82
4-Chlorotoluene
Concen: 5.36 ug/l
RT: 11.51 min Scan# 1792
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.2	15.6	46.7





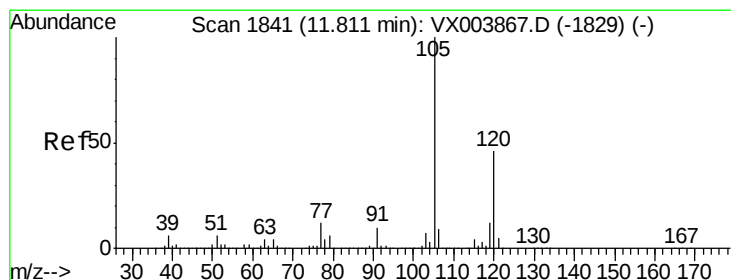
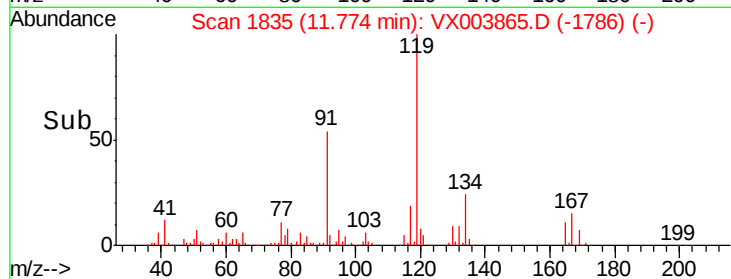
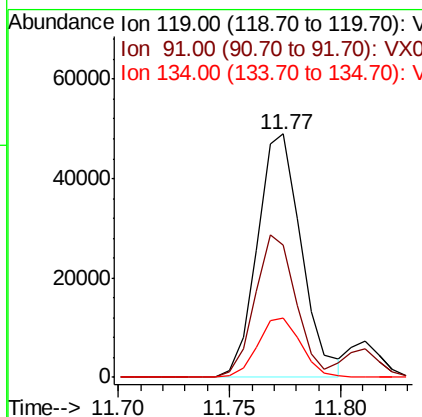
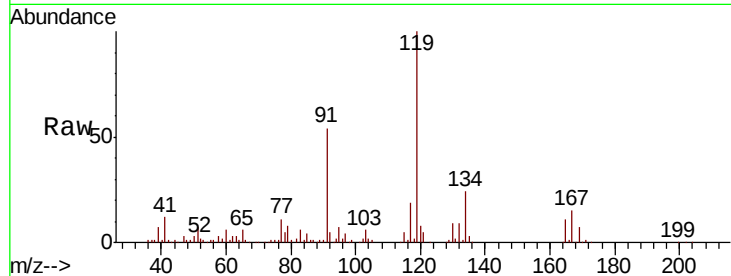
#83
tert-Butylbenzene
Concen: 5.07 ug/l
RT: 11.77 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	54.5	26.9	80.7
134	23.8	12.0	36.0

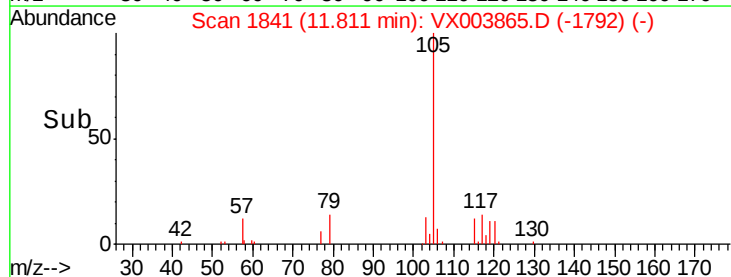
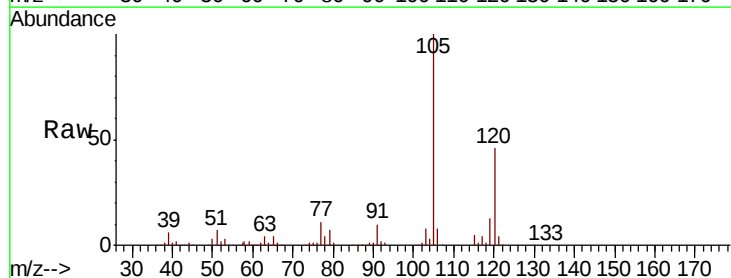
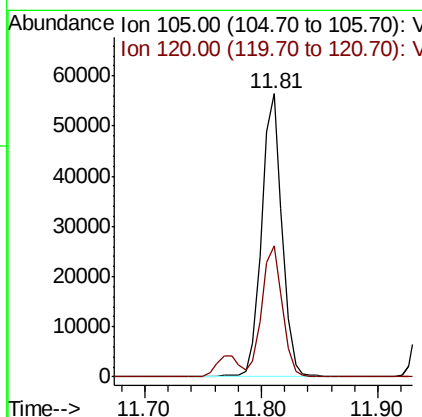
Manual Integrations
APPROVED

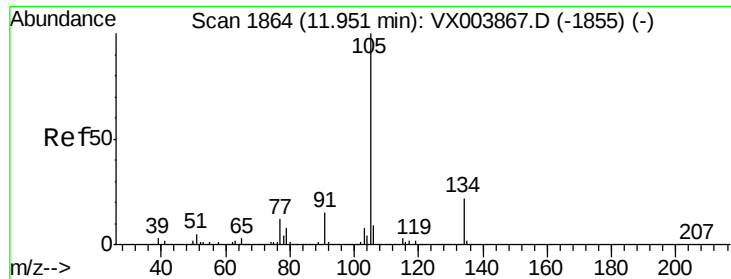
MMDadoda
8/7/2018 1:12:44 PM



#84
1,2,4-Trimethylbenzene
Concen: 5.07 ug/l
RT: 11.81 min Scan# 1841
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.1	69.2





#85

sec-Butylbenzene

Concen: 5.22 ug/l

RT: 11.95 min Scan# 1863

Delta R.T. -0.01 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 81388

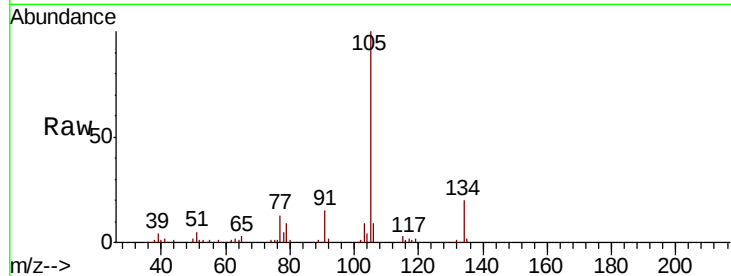
Ion Ratio Lower Upper

105 100

134 20.8 10.3 30.9

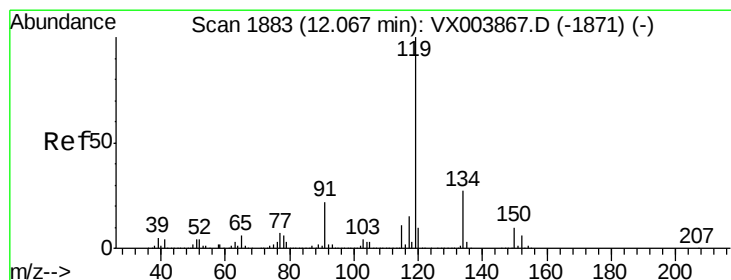
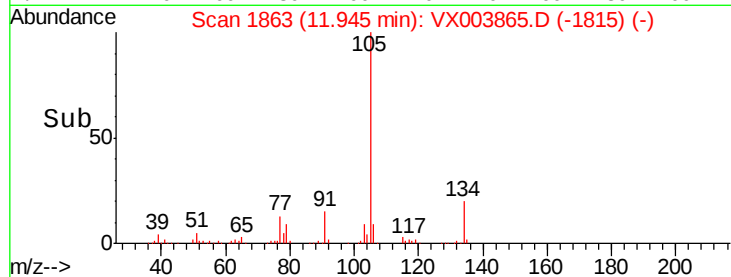
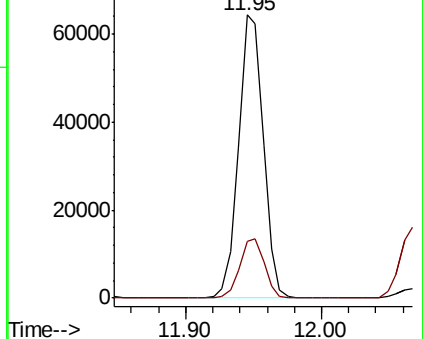
Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 5.06 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

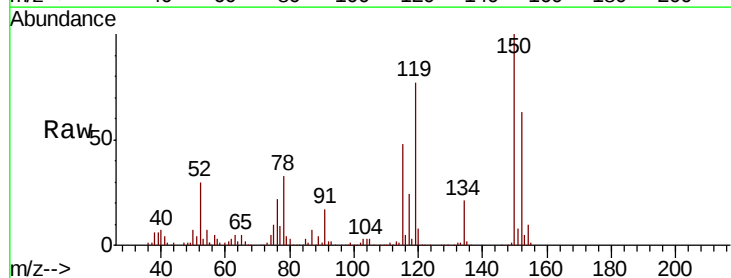
Tgt Ion:119 Resp: 71135

Ion Ratio Lower Upper

119 100

134 27.2 13.3 39.8

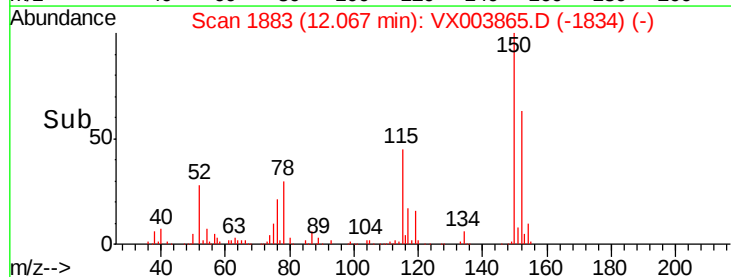
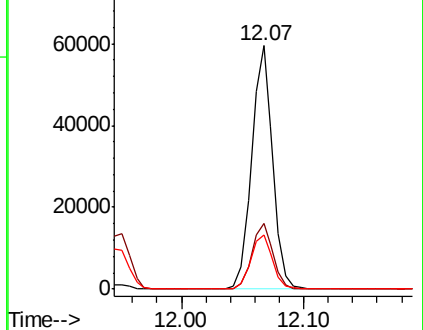
91 23.5 10.9 32.7

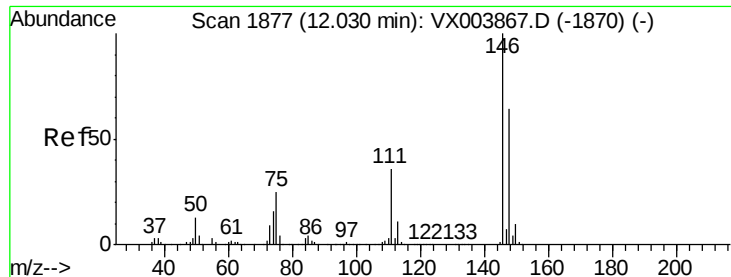


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0





#87

1,3-Dichlorobenzene

Concen: 5.19 ug/l

RT: 12.02 min Scan# 1876

Delta R.T. -0.01 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Instrument :

MSVOA_X

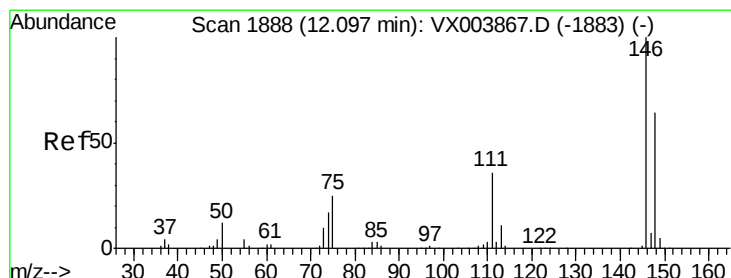
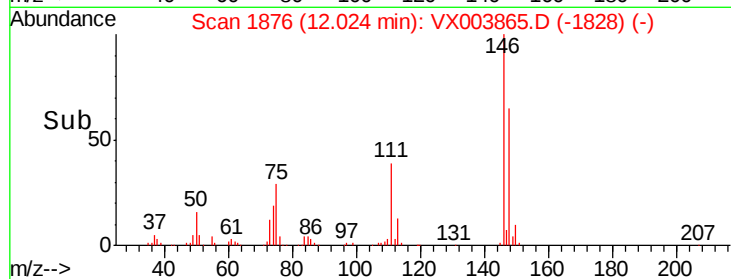
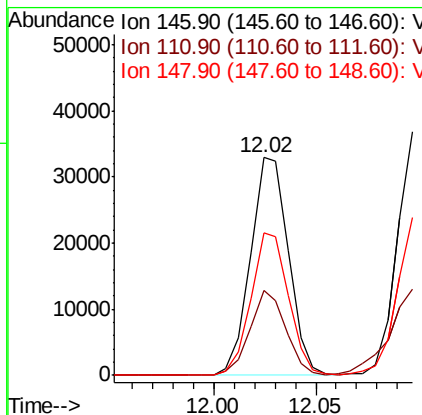
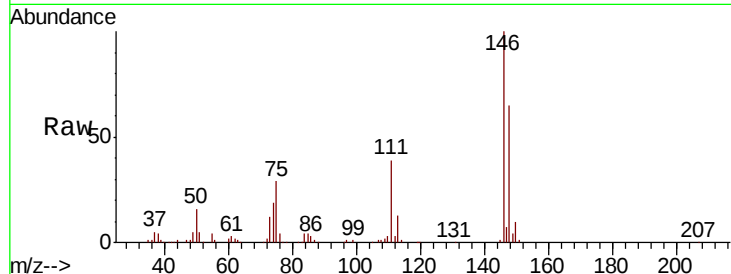
ClientSampleId :

VSTDIC005

Tot Ion:	146	Resp:	42754
Ion	Ratio	Lower	Upper
146	100		
111	36.7	18.8	56.4
148	64.8	31.9	95.5

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM



#88

1,4-Dichlorobenzene

Concen: 5.30 ug/l

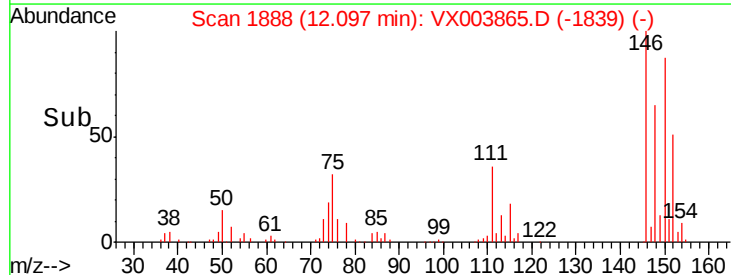
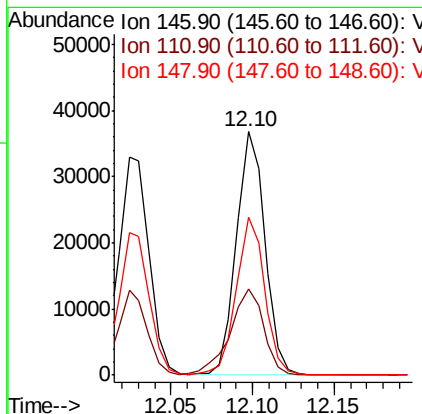
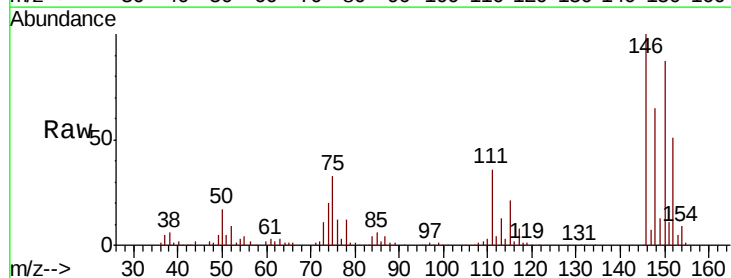
RT: 12.10 min Scan# 1888

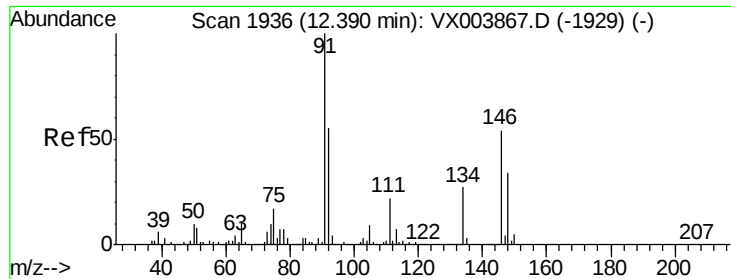
Delta R.T. 0.00 min

Lab File: VX003865.D

Acq: 06 Aug 2018 16:53

Tgt Ion:	146	Resp:	45073
Ion	Ratio	Lower	Upper
146	100		
111	41.7	18.4	55.0
148	64.3	32.3	96.8





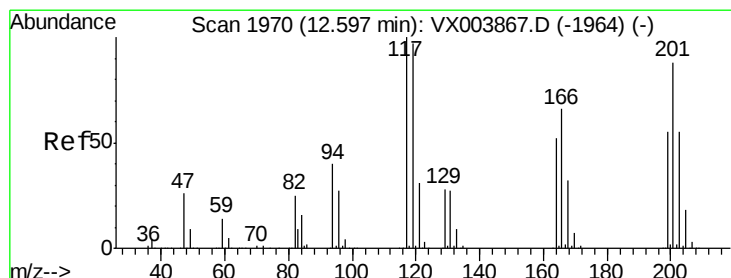
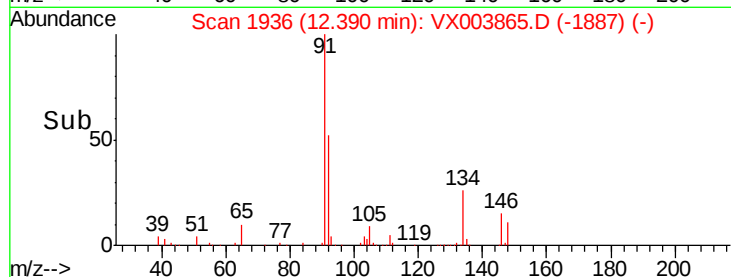
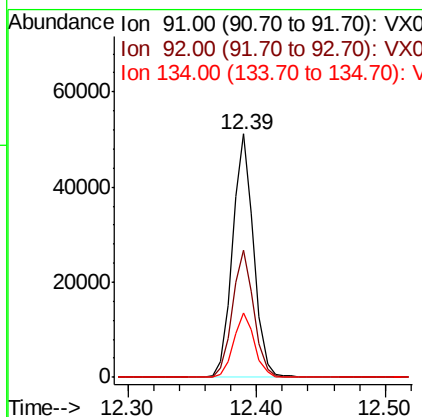
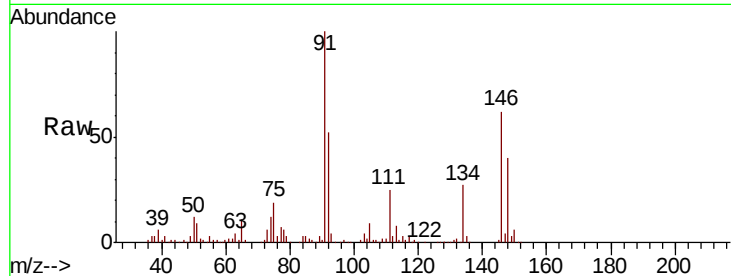
#89
n-Butylbenzene
Concen: 4.84 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
91	100	58614		
92	52.8		27.1	81.3
134	26.4		13.6	40.7

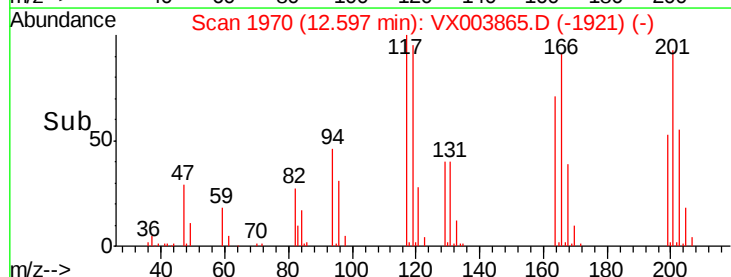
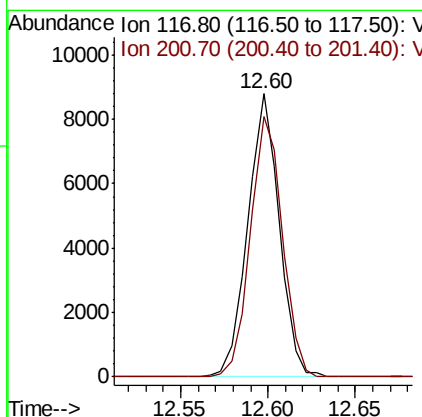
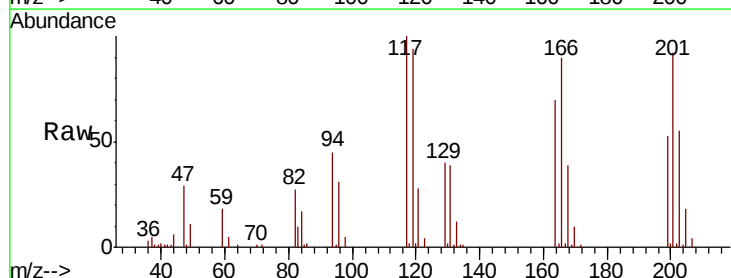
Manual Integrations
APPROVED

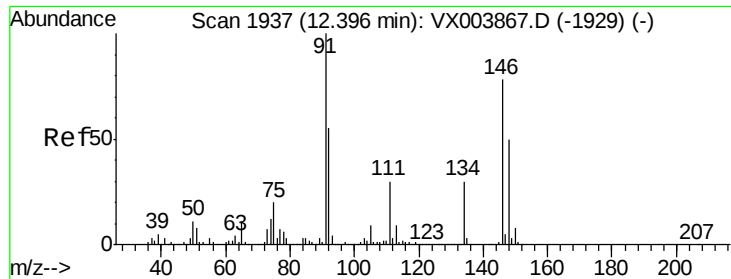
MMDadoda
8/7/2018 1:12:44 PM



#90
Hexachloroethane
Concen: 4.82 ug/l
RT: 12.60 min Scan# 1970
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	10968		
201	93.5		46.1	138.2





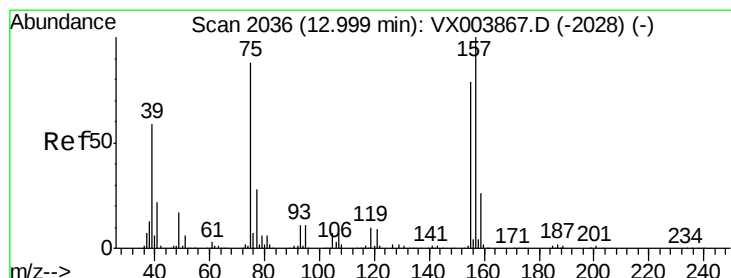
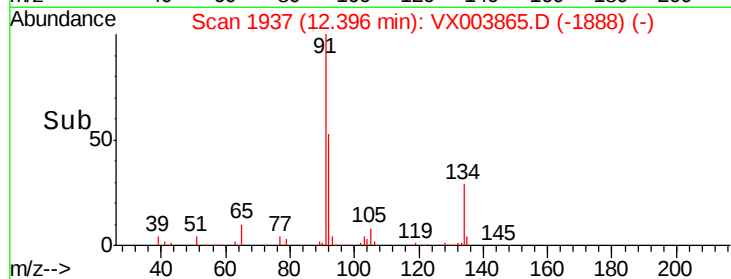
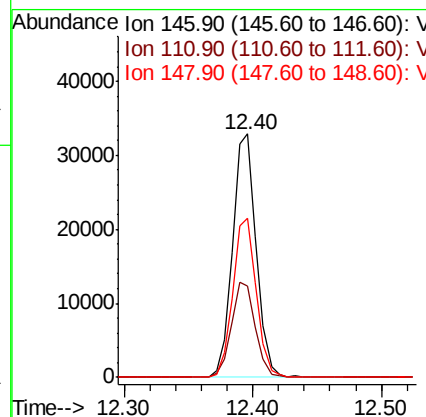
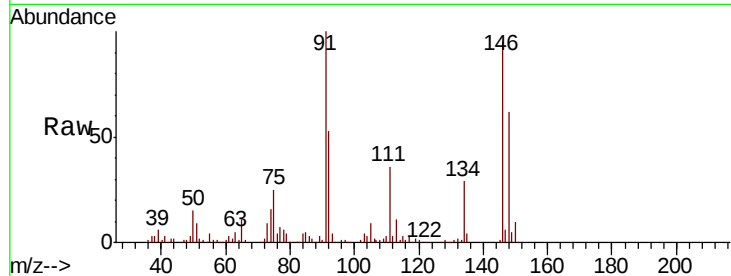
#91
 1,2-Dichlorobenzene
 Concen: 5.05 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. 0.00 min
 Lab File: VX003865.D
 Acq: 06 Aug 2018 16:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.7	19.7	59.0
148	64.8	31.9	95.5

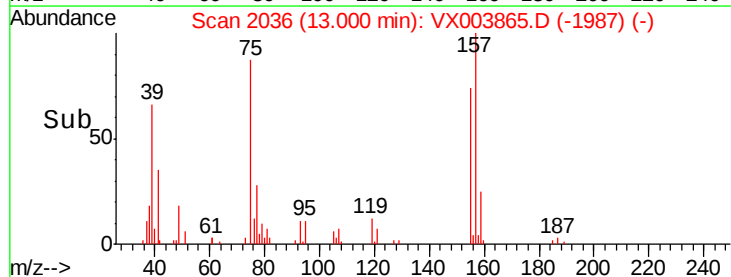
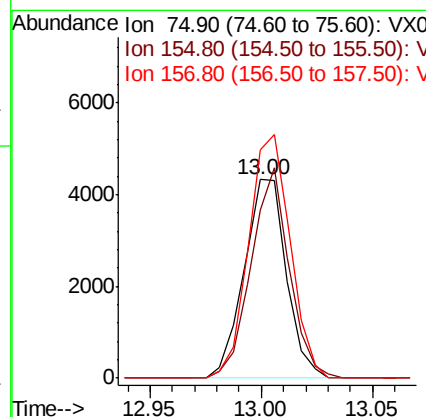
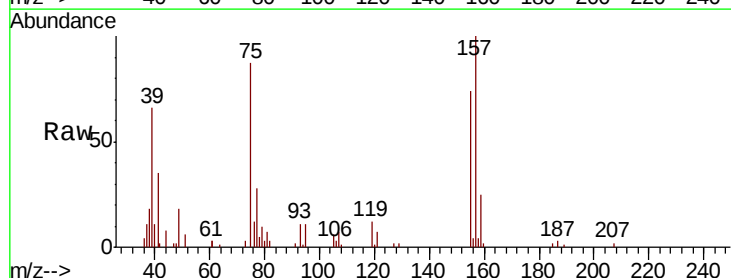
Manual Integrations
 APPROVED

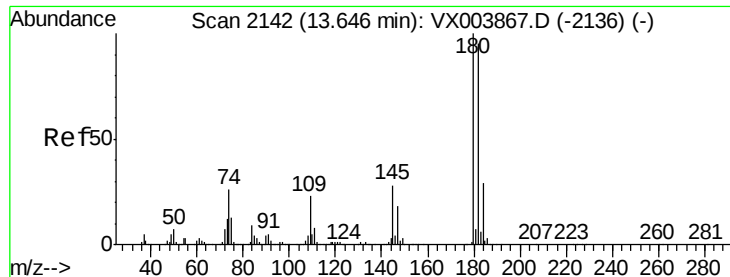
MMDadoda
 8/7/2018 1:12:44 PM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.60 ug/l
 RT: 13.00 min Scan# 2036
 Delta R.T. 0.00 min
 Lab File: VX003865.D
 Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
75	100		
155	95.8	48.7	146.1
157	120.6	62.6	187.8





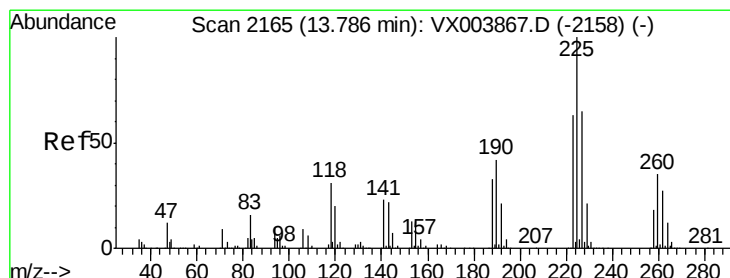
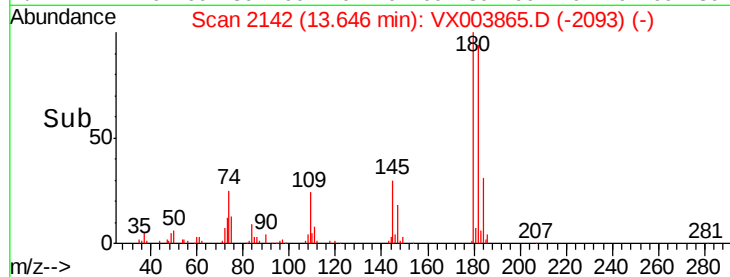
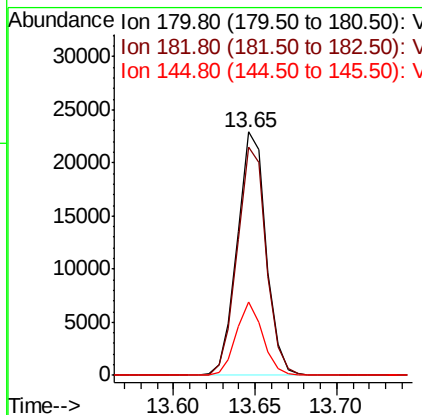
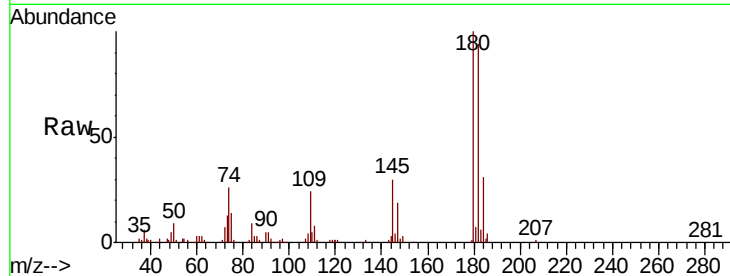
#93
 1,2,4-Trichlorobenzene
 Concen: 4.76 ug/l
 RT: 13.65 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VX003865.D
 Acq: 06 Aug 2018 16:53

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
180	100	28306		
182	93.9	47.7	143.1	
145	27.7	13.9	41.6	

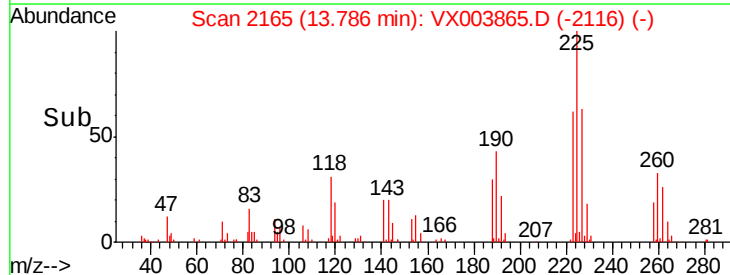
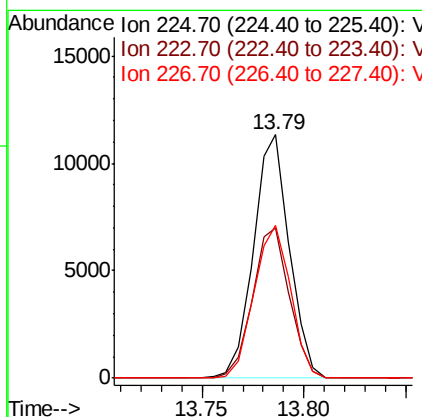
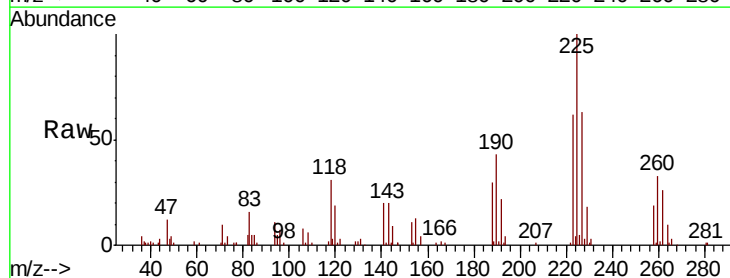
Manual Integrations
 APPROVED

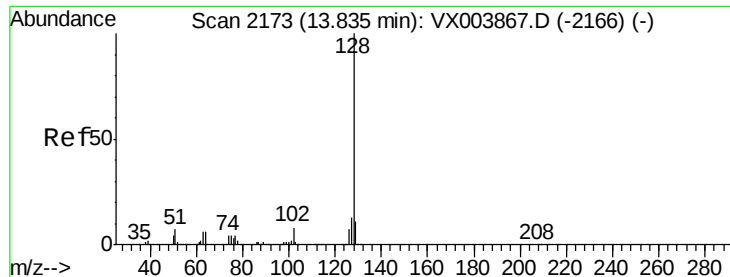
MMDadoda
 8/7/2018 1:12:44 PM



#94
 Hexachlorobutadiene
 Concen: 4.81 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX003865.D
 Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	13840		
223	63.5	31.4	94.0	
227	63.9	32.1	96.5	





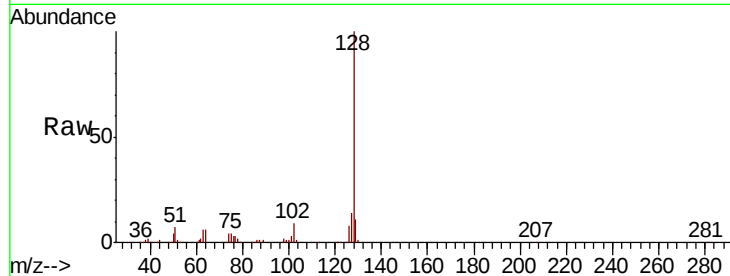
#95
Naphthalene
Concen: 4.55 ug/l
RT: 13.83 min Scan# 2173
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
128	100		
127	13.0	10.2	15.2
129	10.4	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
8/7/2018 1:12:44 PM

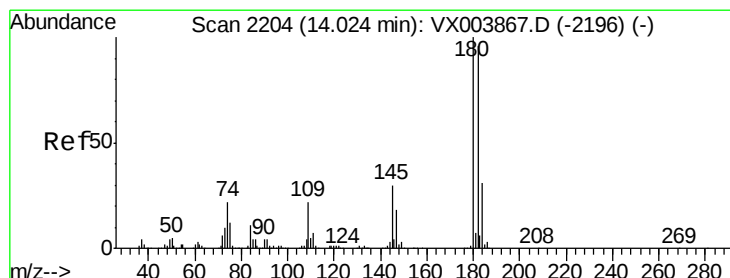
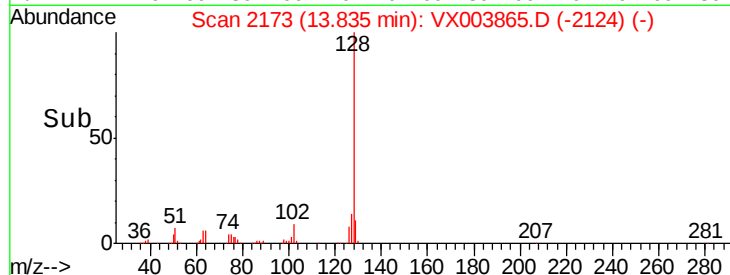
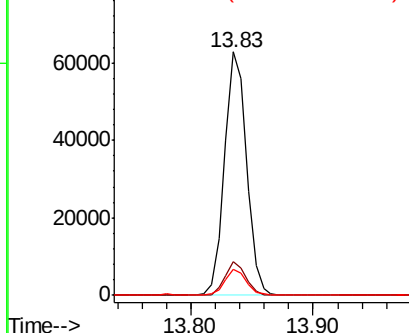


Abundance

Ion 128.00 (127.70 to 128.70): V

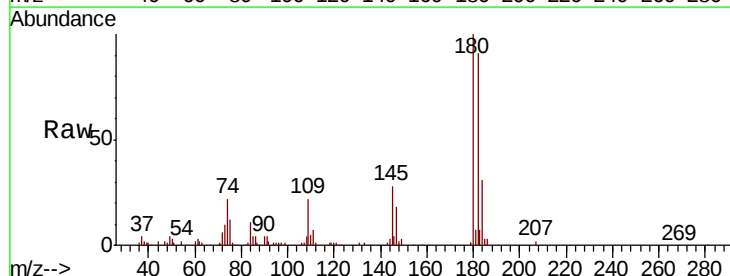
Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V



#96
1,2,3-Trichlorobenzene
Concen: 4.82 ug/l
RT: 14.02 min Scan# 2204
Delta R.T. 0.00 min
Lab File: VX003865.D
Acq: 06 Aug 2018 16:53

Tgt Ion	Ratio	Lower	Upper
180	100		
182	93.6	48.1	144.4
145	29.9	14.9	44.7



Abundance

Ion 179.80 (179.50 to 180.50): V

Ion 181.80 (181.50 to 182.50): V

Ion 144.90 (144.60 to 145.60): V

