

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122118\
 Data File : VX006739.D
 Acq On : 21 Dec 2018 23:04
 Operator : JC/MD
 Sample : VX1221WBS02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1221WBS02

Manual Integrations
 APPROVED

MMDadoda
 12/22/2018 11:15:34 AM

Quant Time: Dec 22 05:37:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	530463	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	837952	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	745878	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	371927	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.07	65	305188	53.38	ug/l	0.00
Spiked Amount	50.000		Recovery	=	106.76%	
35) Dibromofluoromethane	5.51	113	272787	51.48	ug/l	0.00
Spiked Amount	50.000		Recovery	=	102.96%	
50) Toluene-d8	8.71	98	992032	49.66	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.32%	
62) 4-Bromofluorobenzene	11.13	95	346002	47.29	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.58%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	84780	17.470	ug/l	95
3) Chloromethane	1.33	50	90963	17.399	ug/l	95
4) Vinyl Chloride	1.41	62	107165	19.626	ug/l	95
5) Bromomethane	1.64	94	101548	18.730	ug/l	97
6) Chloroethane	1.73	64	70301	18.594	ug/l	97
7) Trichlorofluoromethane	1.93	101	175610	20.628	ug/l	100
8) Diethyl Ether	2.19	74	69388	20.521	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	2.39	101	100152	20.036	ug/l	98
10) Methyl Iodide	2.51	142	136373	19.060	ug/l	99
11) Tert butyl alcohol	3.08	59	152701	119.681	ug/l	100
12) 1,1-Dichloroethene	2.38	96	95766	20.206	ug/l	97
13) Acrolein	2.30	56	90550	105.201	ug/l	97
14) Allyl chloride	2.73	41	159978	20.053	ug/l	98
15) Acrylonitrile	3.15	53	322934	113.994	ug/l	99
16) Acetone	2.45	43	280308	106.718	ug/l	96
17) Carbon Disulfide	2.57	76	206604	16.472	ug/l	99
18) Methyl Acetate	2.78	43	191704	24.821	ug/l	100
19) Methyl tert-butyl Ether	3.21	73	343583	21.842	ug/l	98
20) Methylene Chloride	2.86	84	110294	20.307	ug/l	94
21) trans-1,2-Dichloroethene	3.17	96	103082	19.629	ug/l	97
22) Diisopropyl ether	3.87	45	313943	21.511	ug/l	95
23) Vinyl Acetate	3.83	43	1232842	103.269	ug/l	99
24) 1,1-Dichloroethane	3.70	63	175469	20.140	ug/l	99
25) 2-Butanone	4.70	43	407027	110.166	ug/l	99
26) 2,2-Dichloropropane	4.59	77	88072	13.086	ug/l	98
27) cis-1,2-Dichloroethene	4.60	96	118445	20.443	ug/l	98
28) Bromochloromethane	5.02	49	85726	22.315	ug/l	98
29) Tetrahydrofuran	5.16	42	271763	111.679	ug/l	100
30) Chloroform	5.22	83	188108	20.849	ug/l	100
31) Cyclohexane	5.57	56	152923	19.321	ug/l	96
32) 1,1,1-Trichloroethane	5.50	97	151317	19.863	ug/l	98
36) 1,1-Dichloropropene	5.80	75	133100	19.178	ug/l	98
37) Ethyl Acetate	4.86	43	154213	21.349	ug/l	99
38) Carbon Tetrachloride	5.79	117	124888	18.516	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122118\
 Data File : VX006739.D
 Acq On : 21 Dec 2018 23:04
 Operator : JC/MD
 Sample : VX1221WBS02
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 30 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VX1221WBS02

Manual Integrations
 APPROVED

MMDadoda
 12/22/2018 11:15:34 AM

Quant Time: Dec 22 05:37:51 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
 Quant Title : SW846 8260
 QLast Update : Wed Dec 19 15:20:58 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	161723	17.700	ug/l	98
40) Benzene	6.15	78	420365	19.926	ug/l	100
41) Methacrylonitrile	5.06	41	85215	22.220	ug/l	99
42) 1,2-Dichloroethane	6.20	62	144672	20.125	ug/l	99
43) Isopropyl Acetate	6.46	43	226094	20.571	ug/l	99
44) Trichloroethene	7.22	130	120363	18.851	ug/l	93
45) 1,2-Dichloropropane	7.52	63	105772	20.604	ug/l	95
46) Dibromomethane	7.66	93	74317	19.681	ug/l	98
47) Bromodichloromethane	7.90	83	117623	18.762	ug/l	99
48) Methyl methacrylate	7.77	41	118831	21.261	ug/l	98
49) 1,4-Dioxane	7.76	88	63999	426.232	ug/l	99
51) 4-Methyl-2-Pentanone	8.65	43	777869	111.233	ug/l	99
52) Toluene	8.79	92	264174	19.383	ug/l	97
53) t-1,3-Dichloropropene	9.04	75	115273	17.145	ug/l	98
54) cis-1,3-Dichloropropene	8.44	75	135754	18.401	ug/l	98
55) 1,1,2-Trichloroethane	9.21	97	114524	20.529	ug/l	98
56) Ethyl methacrylate	9.18	69	157021	19.915	ug/l	95
57) 1,3-Dichloropropane	9.37	76	181909	20.268	ug/l	98
58) 2-Chloroethyl Vinyl ether	8.31	63	432998	103.313	ug/l	100
59) 2-Hexanone	9.49	43	586202	109.559	ug/l	100
60) Dibromochloromethane	9.59	129	98570	18.433	ug/l	98
61) 1,2-Dibromoethane	9.67	107	122605	20.675	ug/l	99
64) Tetrachloroethene	9.34	164	117517	19.897	ug/l	96
65) Chlorobenzene	10.14	112	306450	19.421	ug/l	99
66) 1,1,1,2-Tetrachloroethane	10.22	131	99755	20.262	ug/l	98
67) Ethyl Benzene	10.25	91	503390	19.523	ug/l	99
68) m/p-Xylenes	10.36	106	395655	38.886	ug/l	99
69) o-Xylene	10.70	106	196151	19.523	ug/l	97
70) Styrene	10.71	104	309037	19.442	ug/l	99
71) Bromoform	10.86	173	68892	18.590	ug/l	99
73) Isopropylbenzene	11.02	105	520678	20.463	ug/l	99
74) N-amyl acetate	10.90	43	198484	21.793	ug/l	98
75) 1,1,2,2-Tetrachloroethane	11.27	83	171111	22.612	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	147663m	21.363	ug/l	
77) Bromobenzene	11.26	156	137557	19.997	ug/l	98
78) n-propylbenzene	11.36	91	566540	20.220	ug/l	99
79) 2-Chlorotoluene	11.42	91	336291	19.805	ug/l	100
80) 1,3,5-Trimethylbenzene	11.51	105	421155	20.096	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.07	75	29121	15.969	ug/l #	81
82) 4-Chlorotoluene	11.51	91	388307	19.937	ug/l	99
83) tert-Butylbenzene	11.77	119	427132	20.364	ug/l	99
84) 1,2,4-Trimethylbenzene	11.80	105	438876	19.909	ug/l	100
85) sec-Butylbenzene	11.94	105	510298	19.843	ug/l	100
86) p-Isopropyltoluene	12.07	119	457116	20.221	ug/l	99
87) 1,3-Dichlorobenzene	12.02	146	247545	19.967	ug/l	100
88) 1,4-Dichlorobenzene	12.10	146	243392	19.151	ug/l	98
89) n-Butylbenzene	12.39	91	368856	19.172	ug/l	98
90) Hexachloroethane	12.60	117	58092	18.631	ug/l	96
91) 1,2-Dichlorobenzene	12.39	146	244712	19.732	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	13.00	75	32038	20.462	ug/l	96

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX122118\
Data File : VX006739.D
Acq On : 21 Dec 2018 23:04
Operator : JC/MD
Sample : VX1221WBS02
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 30 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

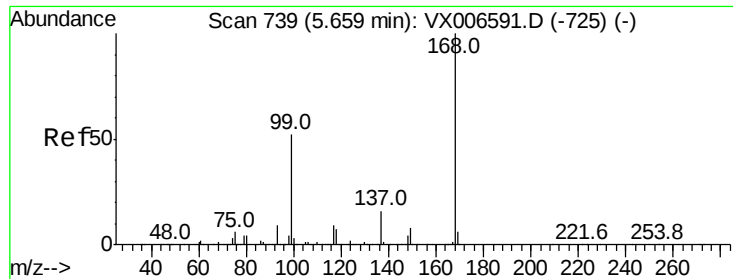
Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM

Quant Time: Dec 22 05:37:51 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X121818W.M
Quant Title : SW846 8260
QLast Update : Wed Dec 19 15:20:58 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	162823	19.033	ug/l	99
94) Hexachlorobutadiene	13.79	225	73177	18.148	ug/l	97
95) Naphthalene	13.83	128	554941	20.325	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	169945	19.240	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.67 min Scan# 740

Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion:168 Resp: 530463

Ion Ratio Lower Upper

168 100

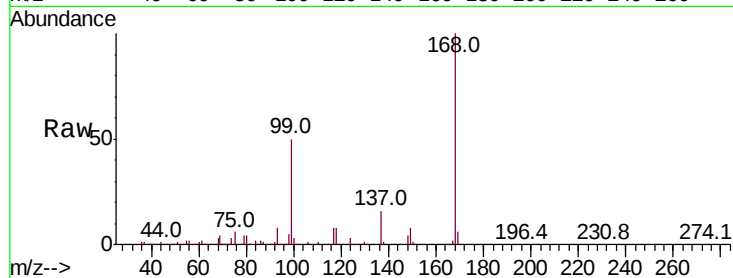
99 49.9 41.8 62.8

Manual Integrations

APPROVED

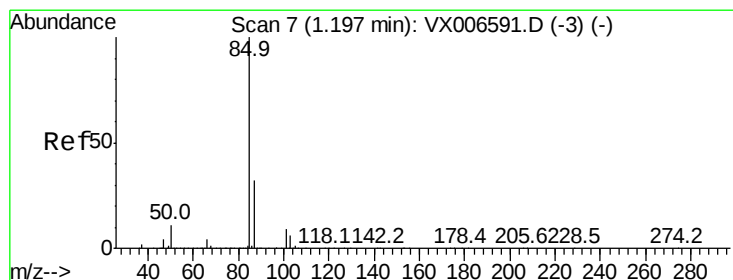
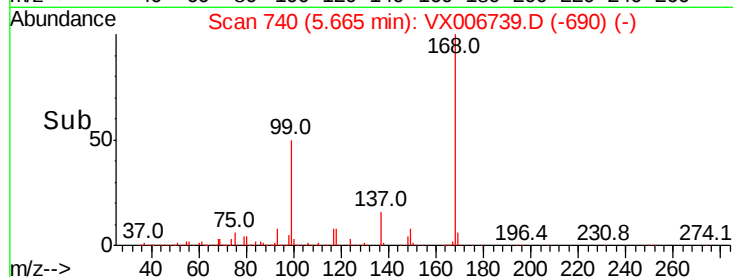
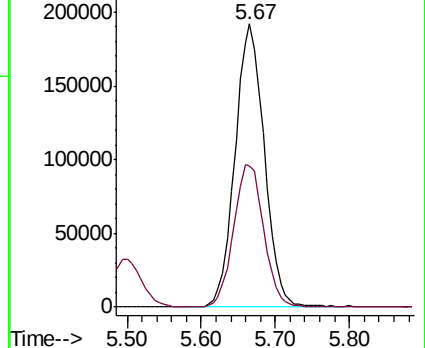
MMDadoda

12/22/2018 11:15:34 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0



#2

Dichlorodifluoromethane

Concen: 17.470 ug/l

RT: 1.20 min Scan# 8

Delta R.T. 0.01 min

Lab File: VX006739.D

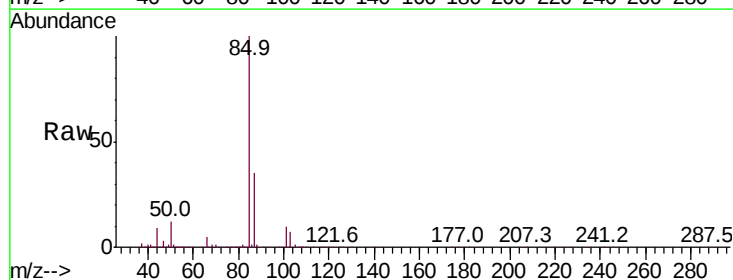
Acq: 21 Dec 2018 23:04

Tgt Ion: 85 Resp: 84780

Ion Ratio Lower Upper

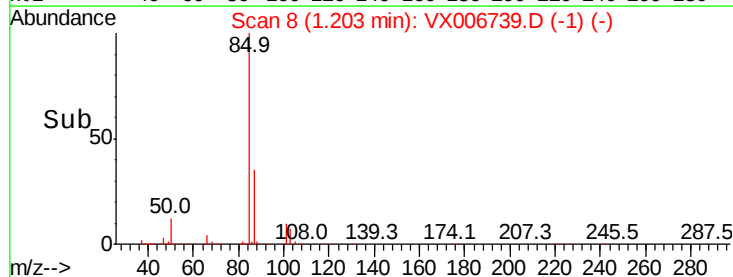
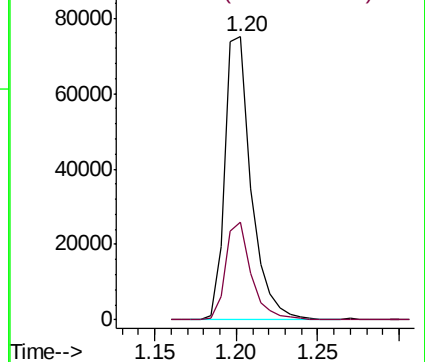
85 100

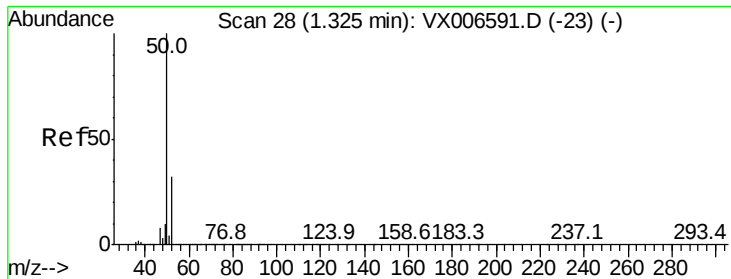
87 34.7 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0





#3

Chloromethane

Concen: 17.399 ug/l

RT: 1.33 min Scan# 29

Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 50 Resp: 90963

Ion Ratio Lower Upper

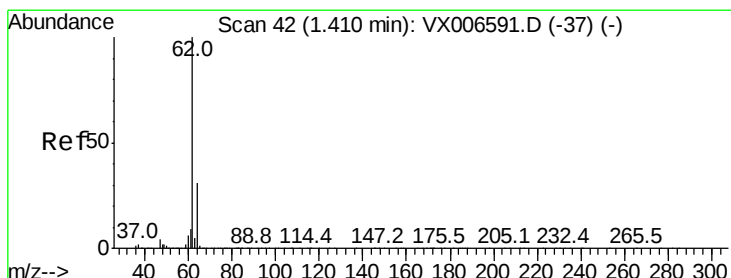
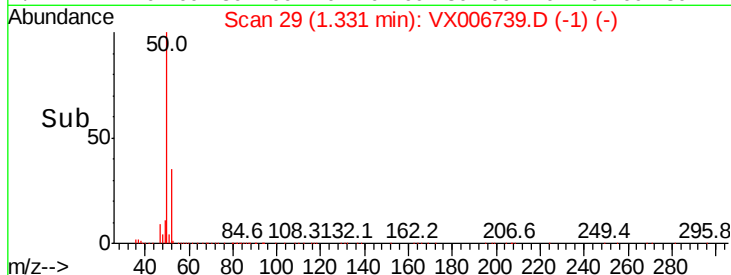
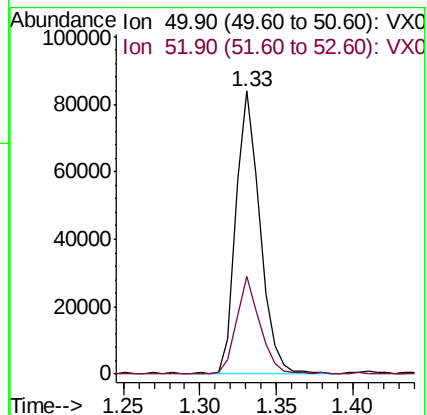
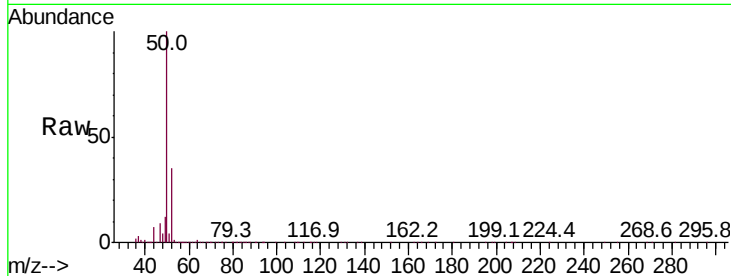
50 100

52 34.7 25.4 38.2

Manual Integrations
APPROVED

MMDadoda

12/22/2018 11:15:34 AM



#4

Vinyl Chloride

Concen: 19.626 ug/l

RT: 1.41 min Scan# 42

Delta R.T. -0.00 min

Lab File: VX006739.D

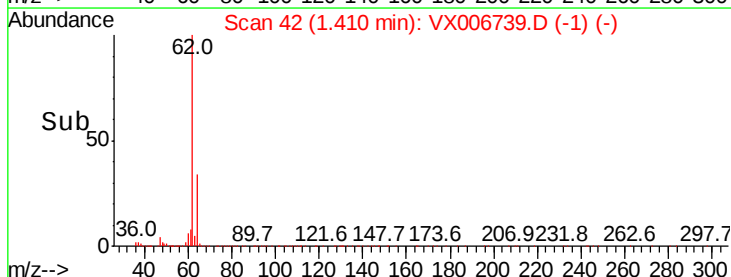
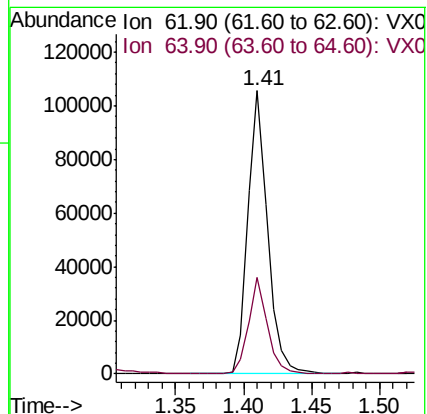
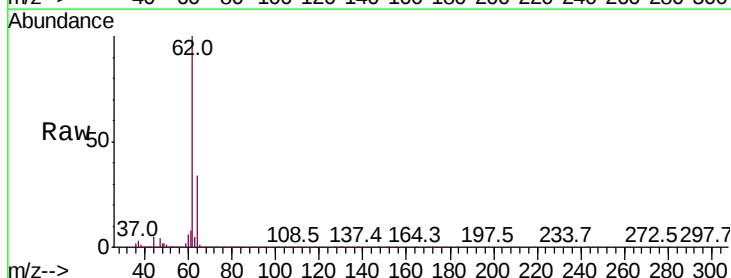
Acq: 21 Dec 2018 23:04

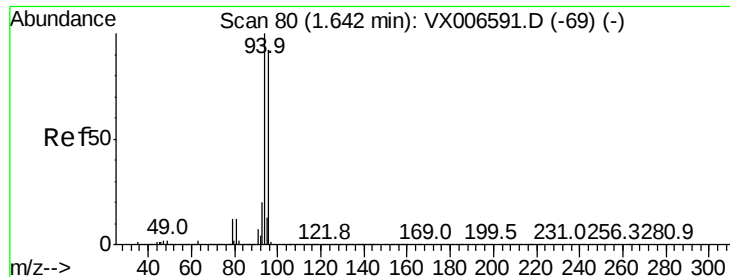
Tgt Ion: 62 Resp: 107165

Ion Ratio Lower Upper

62 100

64 34.0 25.1 37.7





#5

Bromomethane

Concen: 18.730 ug/l

RT: 1.64 min Scan# 80

Delta R.T. 0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 94 Resp: 101548

Ion Ratio Lower Upper

94 100

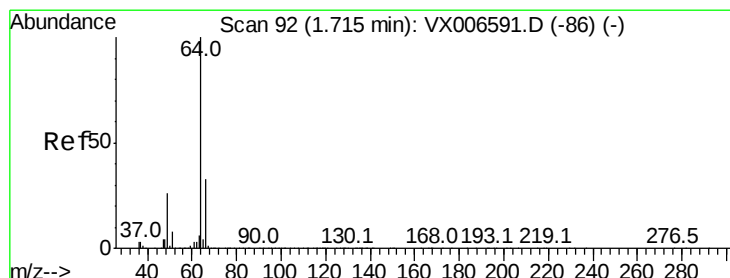
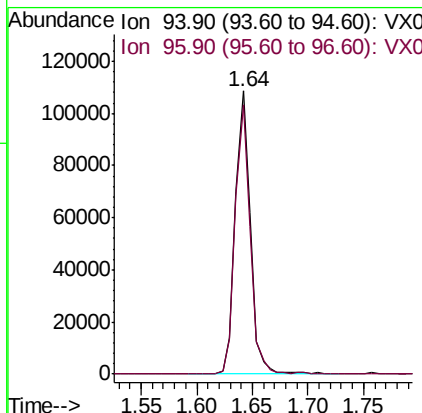
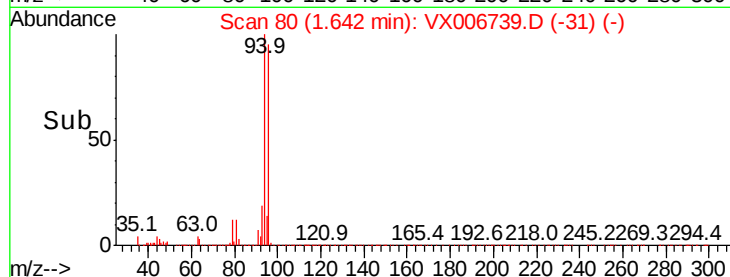
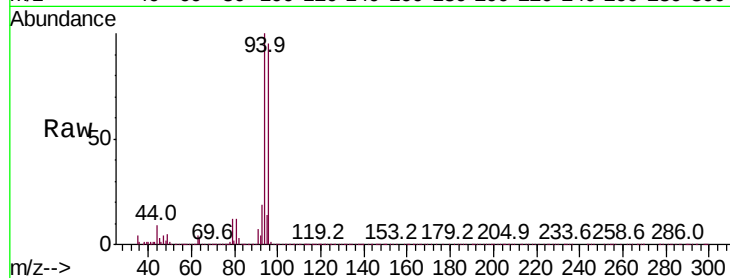
96 95.0 73.4 110.2

Manual Integrations

APPROVED

MMDadoda

12/22/2018 11:15:34 AM



#6

Chloroethane

Concen: 18.594 ug/l

RT: 1.73 min Scan# 94

Delta R.T. 0.01 min

Lab File: VX006739.D

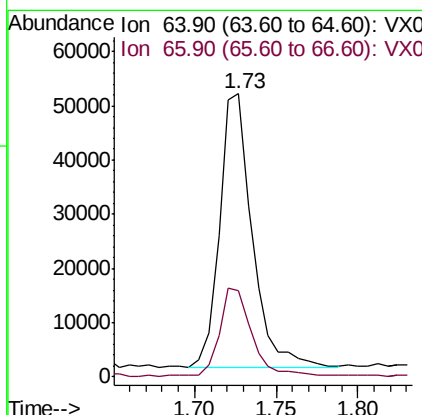
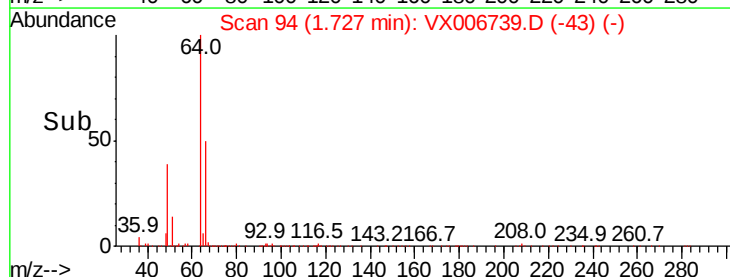
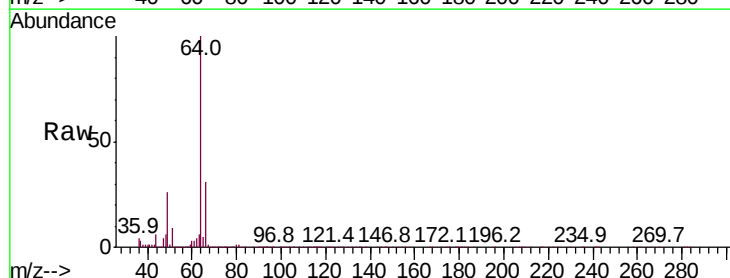
Acq: 21 Dec 2018 23:04

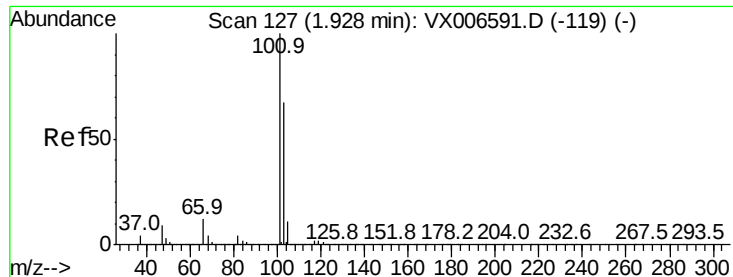
Tgt Ion: 64 Resp: 70301

Ion Ratio Lower Upper

64 100

66 31.1 26.4 39.6





#7

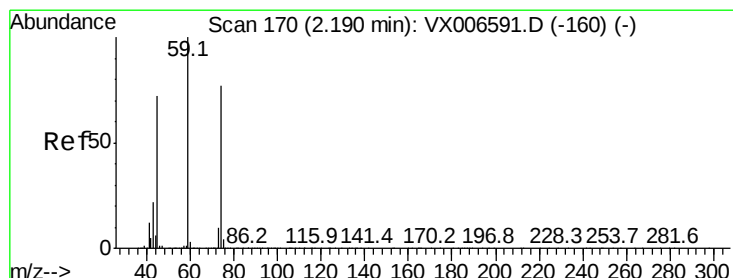
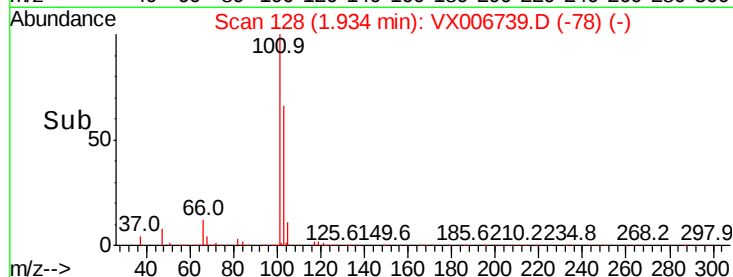
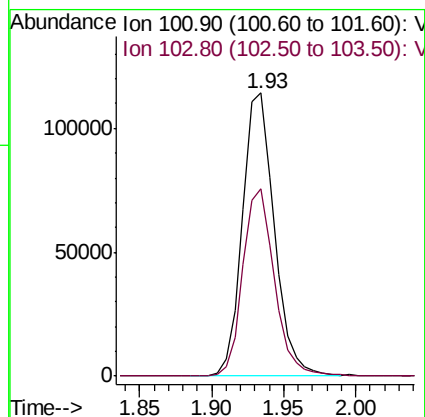
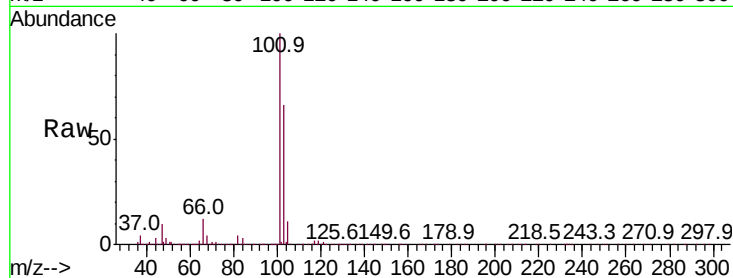
Trichlorofluoromethane
Concen: 20.628 ug/l
RT: 1.93 min Scan# 128
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.2	53.2	79.8

Manual Integrations
APPROVED

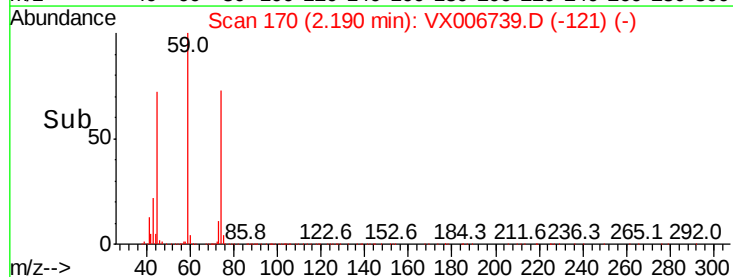
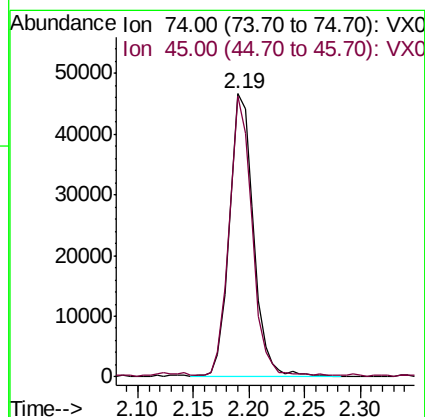
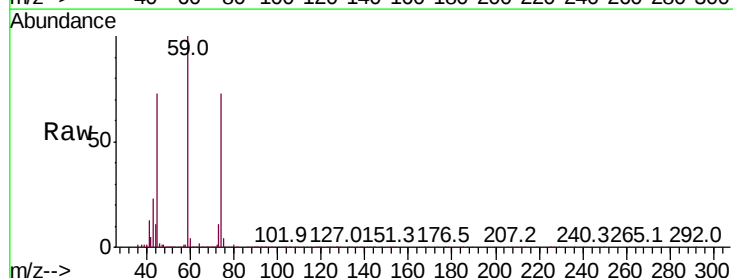
MMDadoda
12/22/2018 11:15:34 AM

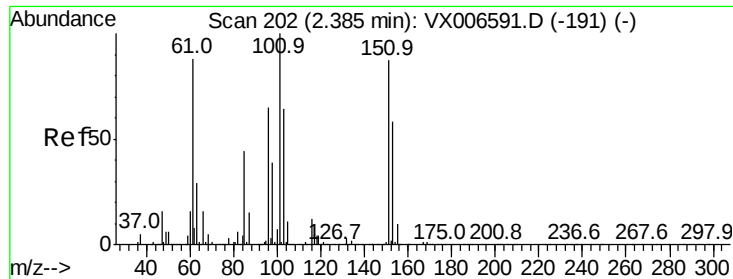


#8

Diethyl Ether
Concen: 20.521 ug/l
RT: 2.19 min Scan# 170
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.2	46.3	138.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 20.036 ug/l

RT: 2.39 min Scan# 202

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

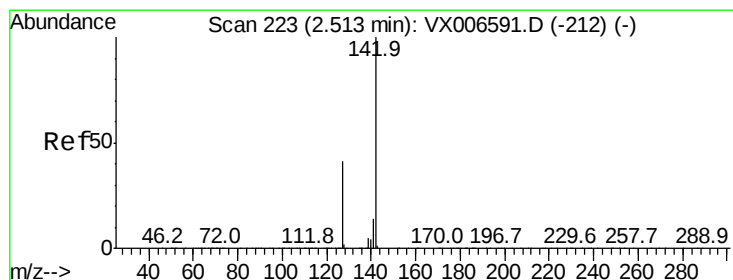
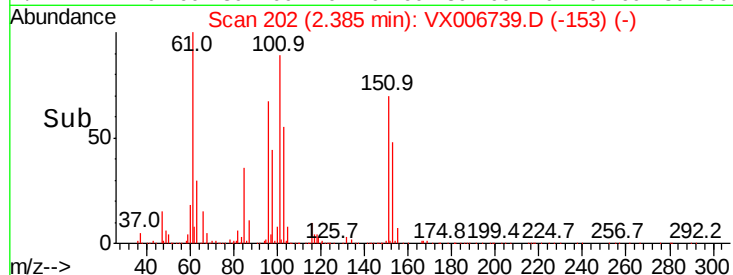
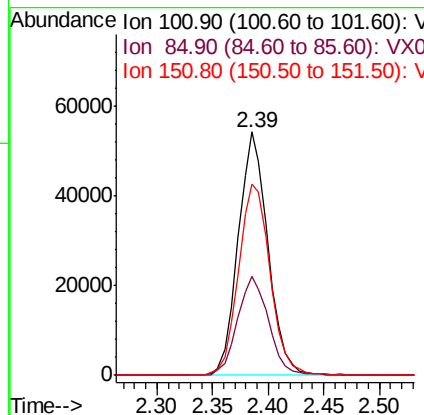
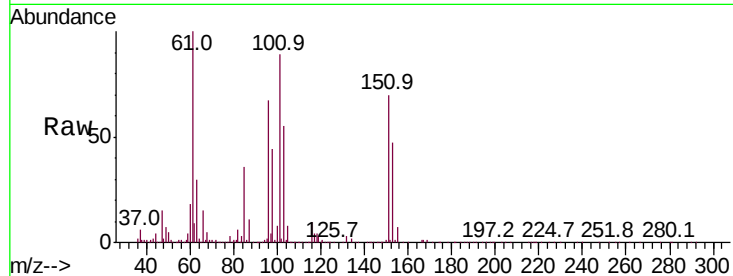
ClientSampleId :

VX1221WBS02

Tot Ion:	101	Resp:	100152
Ion Ratio	Lower	Upper	
101	100		
85	42.8	35.1	52.7
151	84.0	68.9	103.3

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#10

Methyl Iodide

Concen: 19.060 ug/l

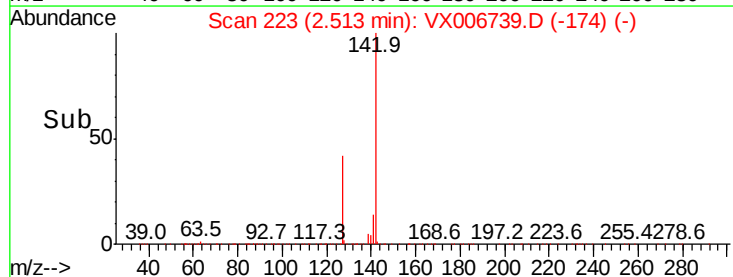
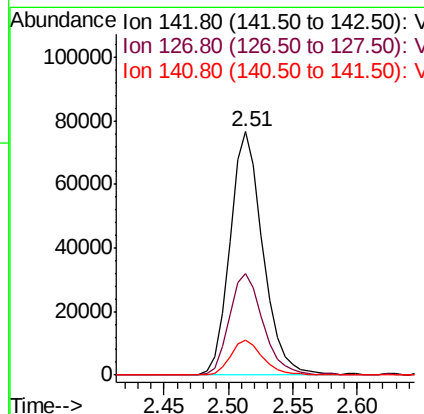
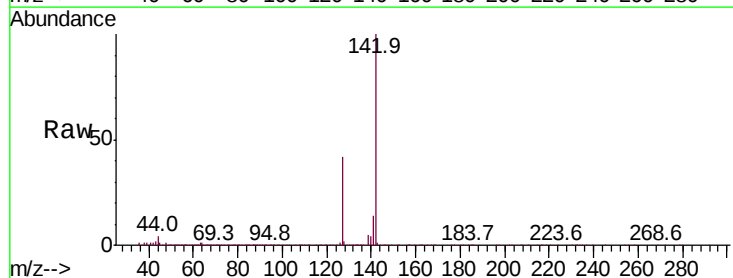
RT: 2.51 min Scan# 223

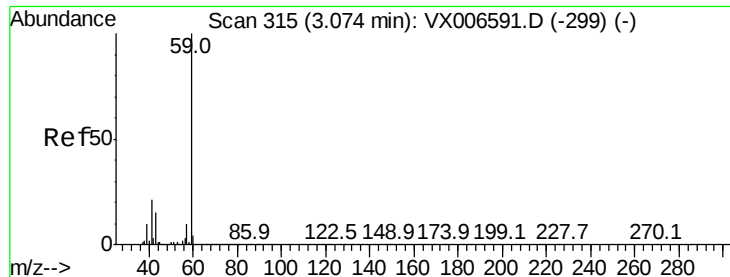
Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Tgt Ion:	142	Resp:	136373
Ion Ratio	Lower	Upper	
142	100		
127	43.1	33.9	50.9
141	14.5	11.4	17.0





#11

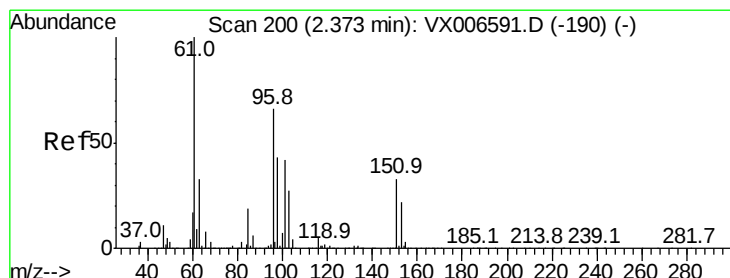
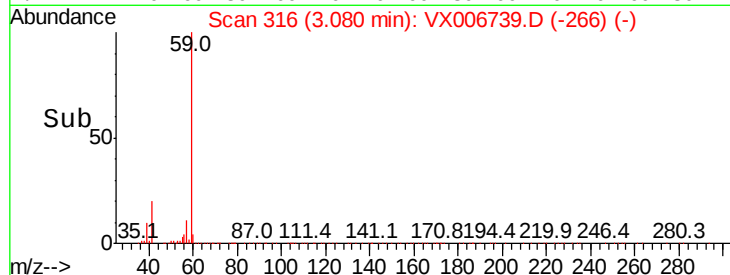
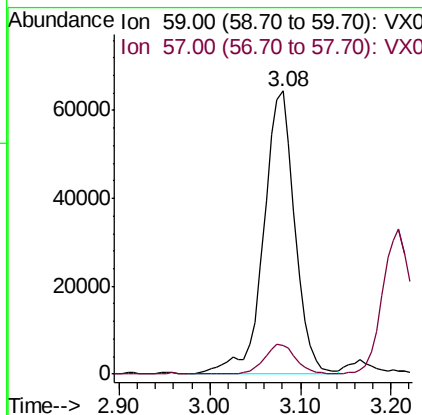
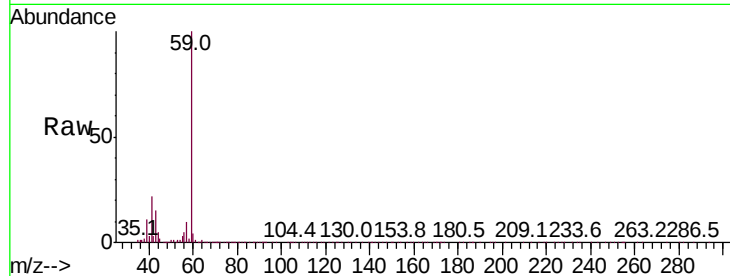
Tert butyl alcohol
Concen: 119.681 ug/l
RT: 3.08 min Scan# 316
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	59	57	Ratio	100	10.7	Resp	Lower	Upper
152701								
							8.5	12.7

Manual Integrations
APPROVED

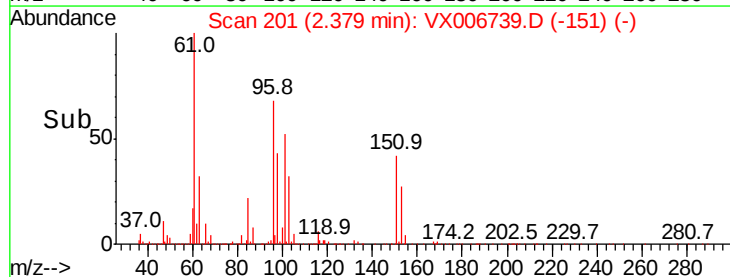
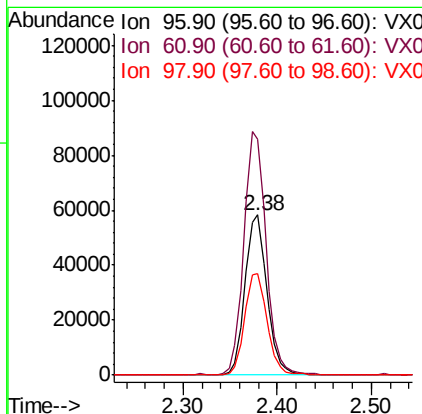
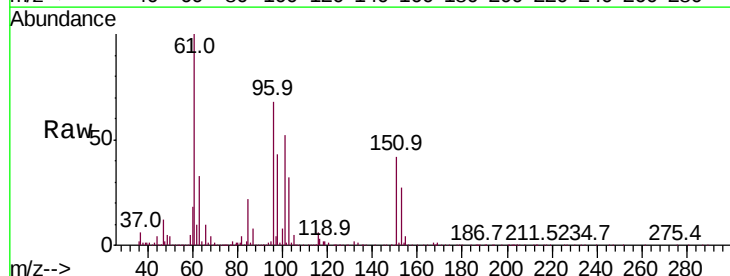
MMDadoda
12/22/2018 11:15:34 AM

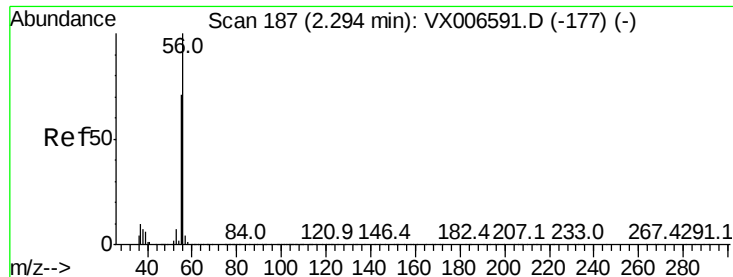


#12

1,1-Dichloroethene
Concen: 20.206 ug/l
RT: 2.38 min Scan# 201
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	96	61	98	Ratio	100	147.2	63.4	Resp	Lower	Upper
95766										
									121.4	182.2
									51.9	77.9





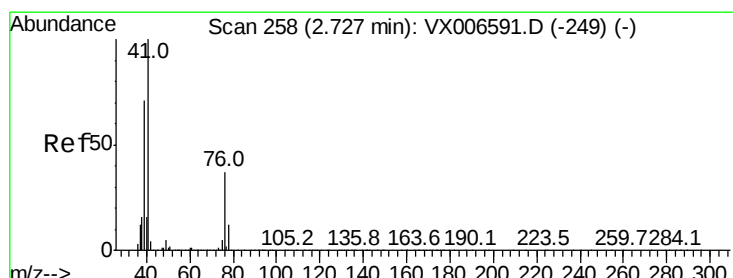
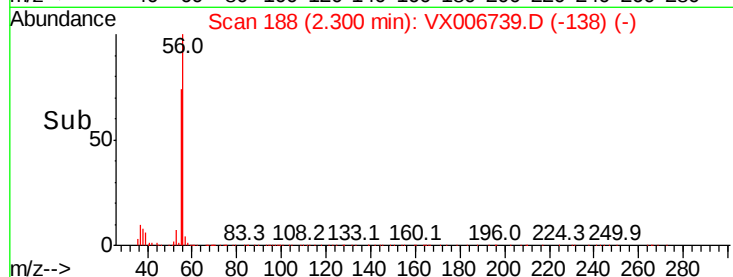
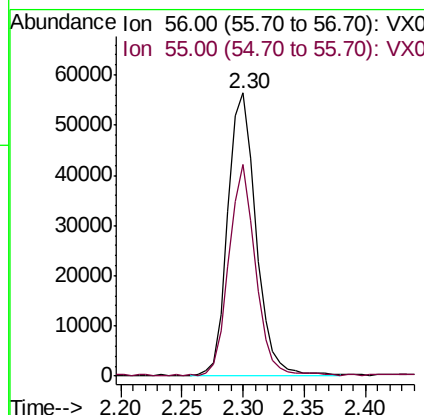
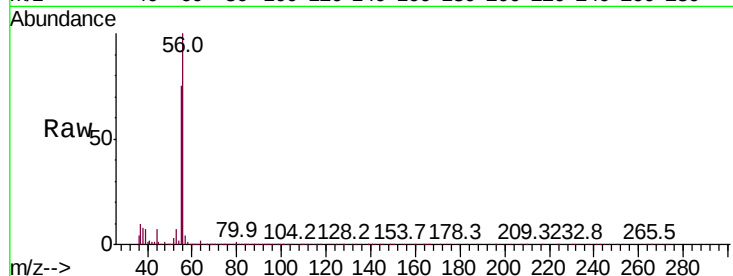
#13
Acrolein
Concen: 105.201 ug/l
RT: 2.30 min Scan# 188
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Lower	Upper
56	100		
55	69.9	58.2	87.4

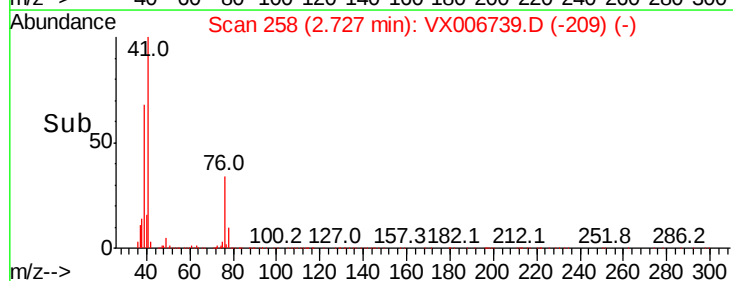
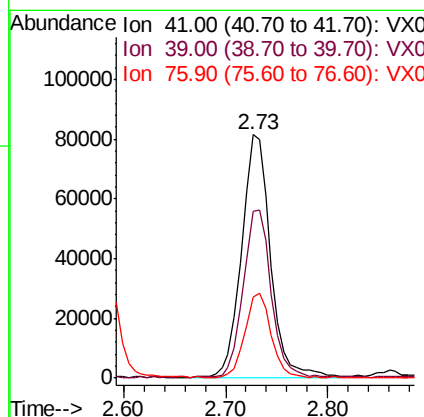
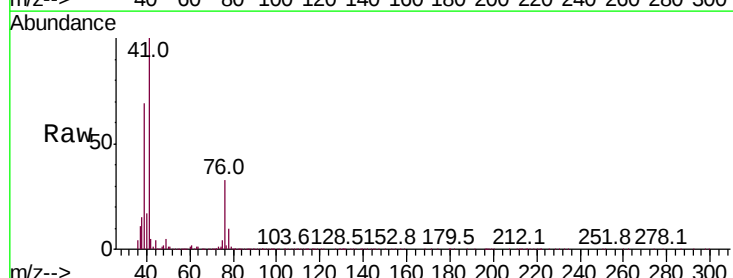
Manual Integrations
APPROVED

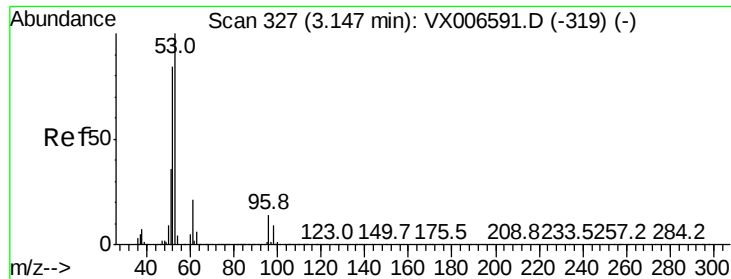
MMDadoda
12/22/2018 11:15:34 AM



#14
Allyl chloride
Concen: 20.053 ug/l
RT: 2.73 min Scan# 258
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
41	100		
39	66.6	53.6	80.4
76	31.6	27.4	41.2





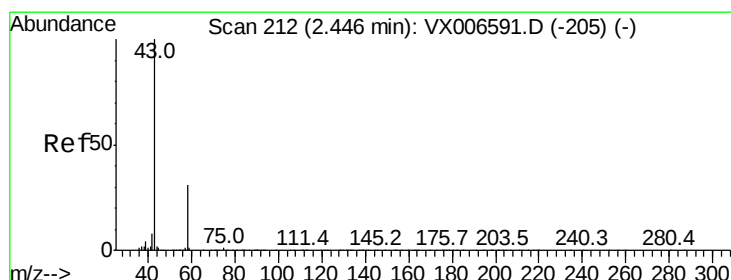
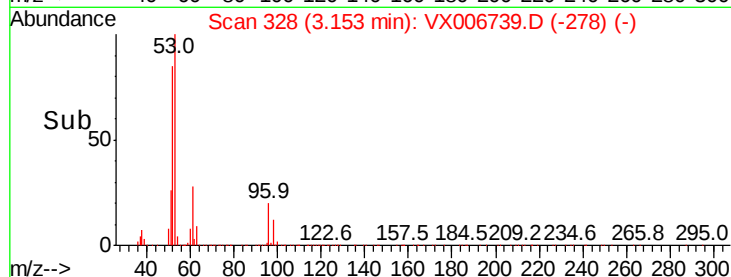
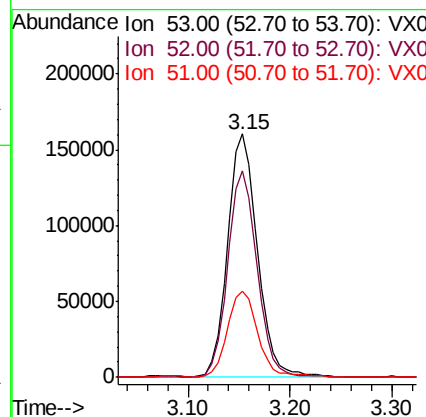
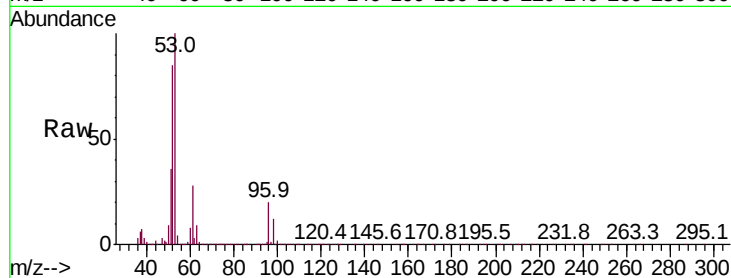
#15
 Acrylonitrile
 Concen: 113.994 ug/l
 RT: 3.15 min Scan# 328
 Delta R.T. 0.01 min
 Lab File: VX006739.D
 Acq: 21 Dec 2018 23:04

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1221WBS02

Tot Ion	Ratio	Lower	Upper
53	100		
52	83.3	66.0	99.0
51	35.9	28.6	42.8

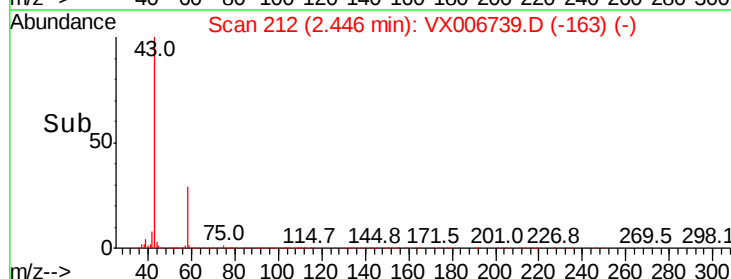
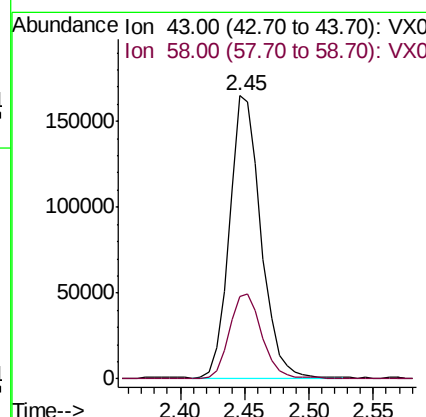
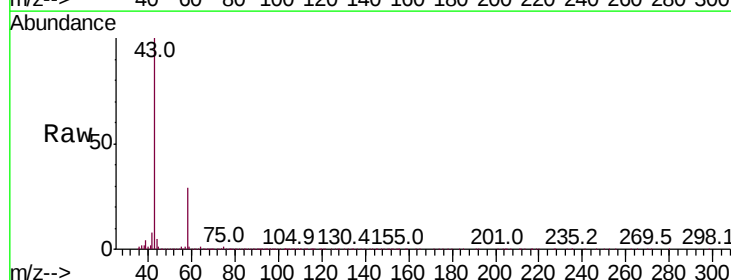
Manual Integrations
 APPROVED

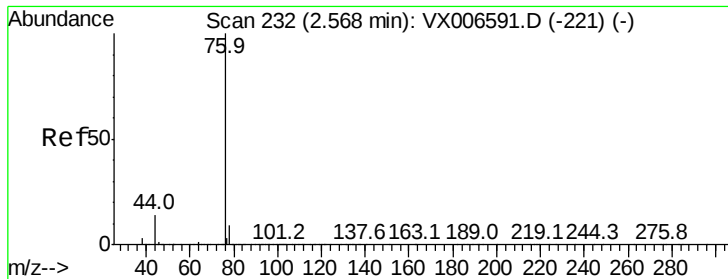
MMDadoda
 12/22/2018 11:15:34 AM



#16
 Acetone
 Concen: 106.718 ug/l
 RT: 2.45 min Scan# 212
 Delta R.T. -0.00 min
 Lab File: VX006739.D
 Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
43	100		
58	29.2	25.0	37.6





#17

Carbon Disulfide

Concen: 16.472 ug/l

RT: 2.57 min Scan# 233

Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 76 Resp: 206604

Ion Ratio Lower Upper

76 100

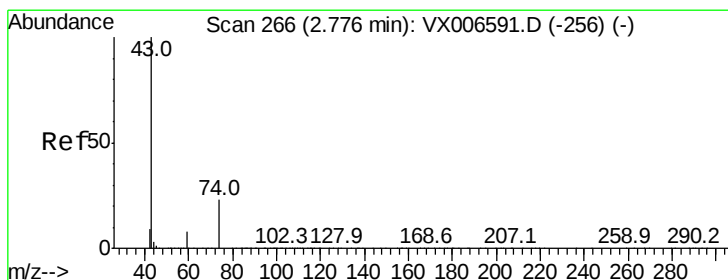
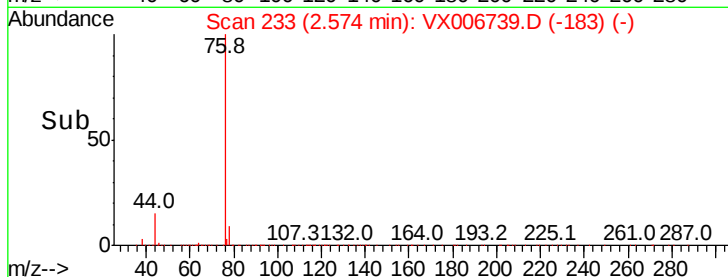
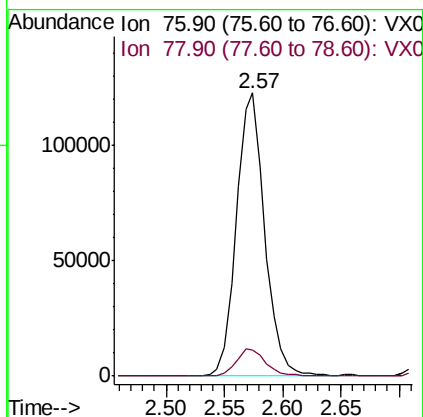
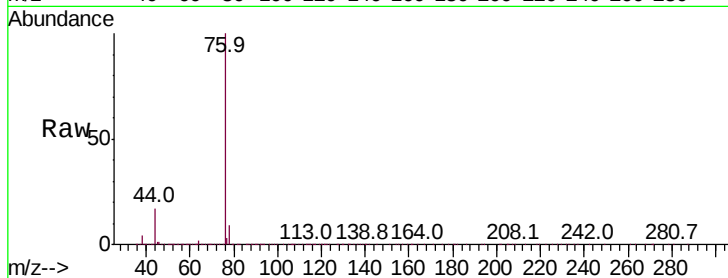
78 9.1 7.0 10.6

Manual Integrations

APPROVED

MMDadoda

12/22/2018 11:15:34 AM



#18

Methyl Acetate

Concen: 24.821 ug/l

RT: 2.78 min Scan# 267

Delta R.T. 0.01 min

Lab File: VX006739.D

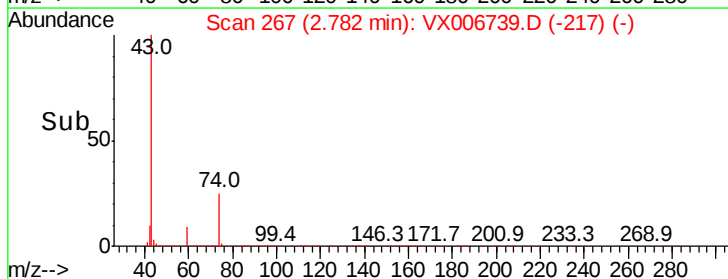
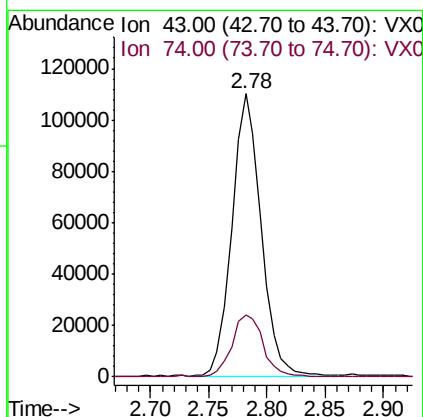
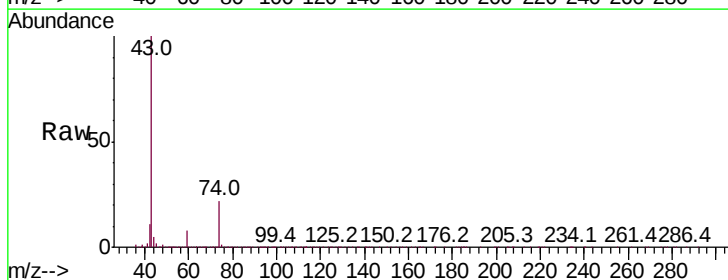
Acq: 21 Dec 2018 23:04

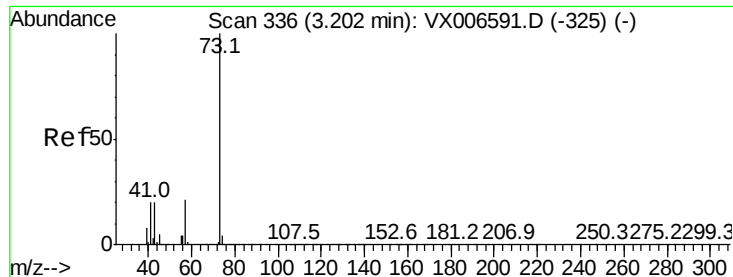
Tgt Ion: 43 Resp: 191704

Ion Ratio Lower Upper

43 100

74 23.1 18.6 28.0





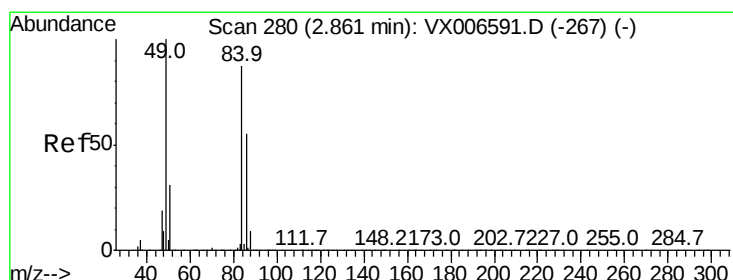
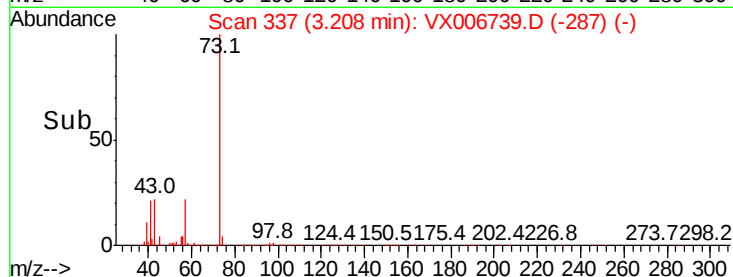
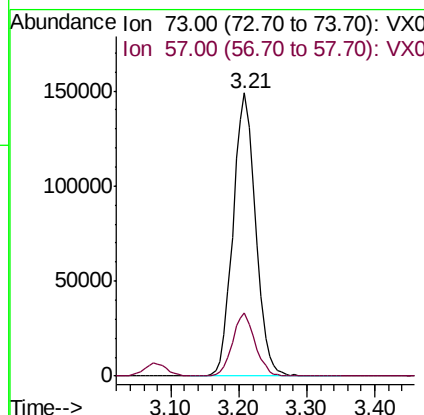
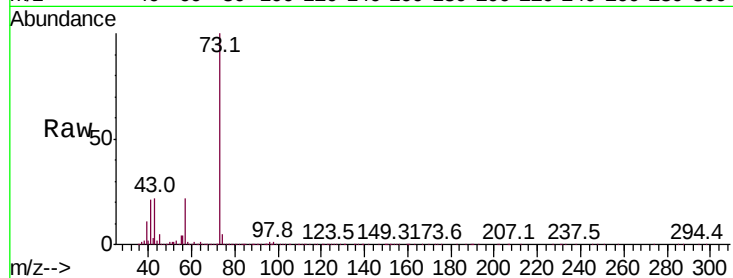
#19
Methvl tert-butvl Ether
Concen: 21.842 ug/l
RT: 3.21 min Scan# 337
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion: 73 Resp: 343583
Ion Ratio Lower Upper
73 100
57 22.1 16.8 25.2

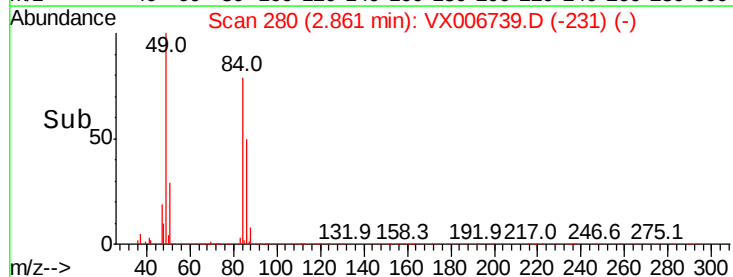
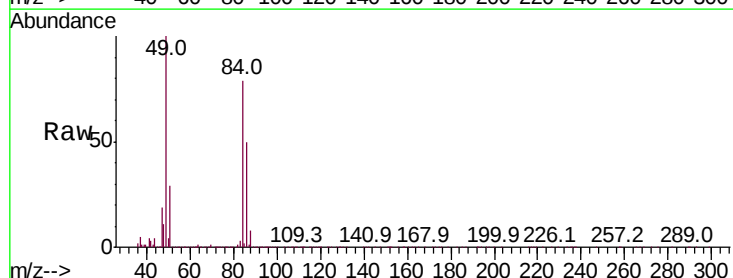
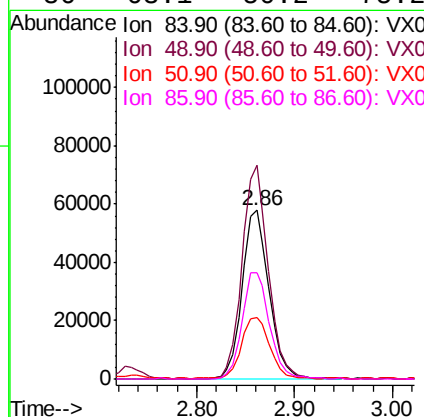
Manual Integrations
APPROVED

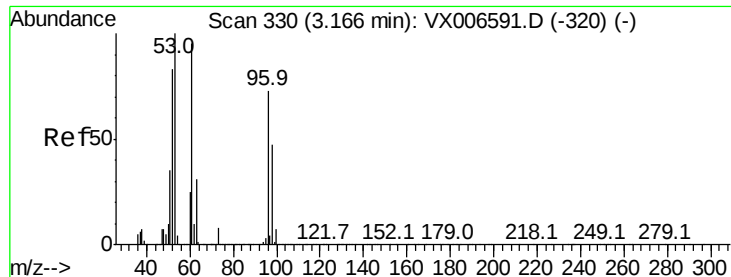
MMDadoda
12/22/2018 11:15:34 AM



#20
Methylene Chloride
Concen: 20.307 ug/l
RT: 2.86 min Scan# 280
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion: 84 Resp: 110294
Ion Ratio Lower Upper
84 100
49 126.5 91.8 137.6
51 36.5 28.5 42.7
86 63.1 50.2 75.2





#21

trans-1,2-Dichloroethene

Concen: 19.629 ug/l

RT: 3.17 min Scan# 330

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 96 Resp: 103082

Ion Ratio Lower Upper

96 100

61 132.9 103.7 155.5

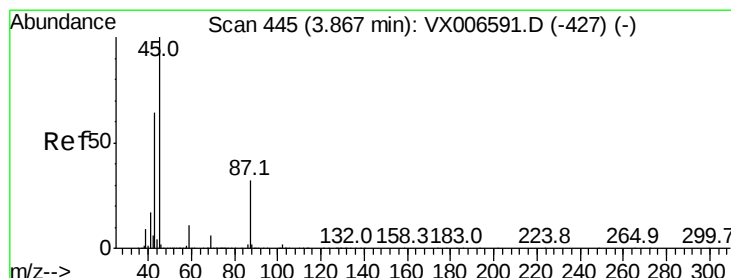
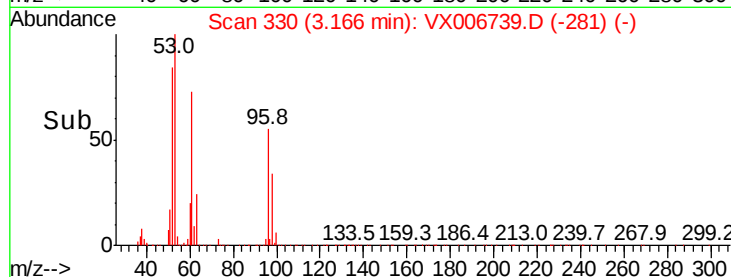
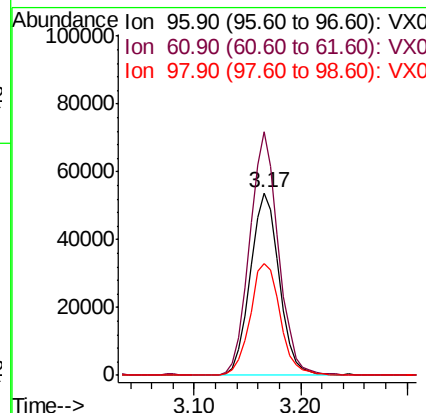
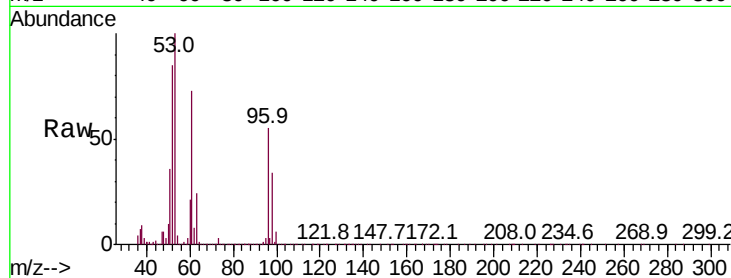
98 61.2 51.0 76.6

Manual Integrations

APPROVED

MMDadoda

12/22/2018 11:15:34 AM



#22

Diisopropyl ether

Concen: 21.511 ug/l

RT: 3.87 min Scan# 446

Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Tgt Ion: 45 Resp: 313943

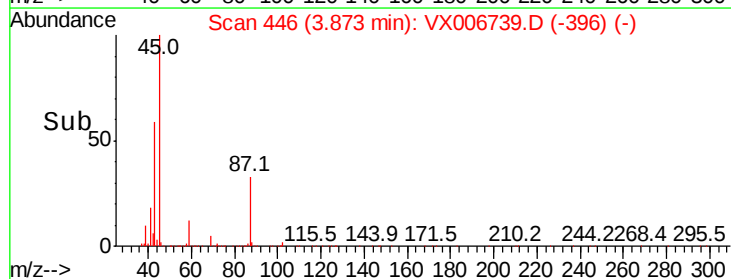
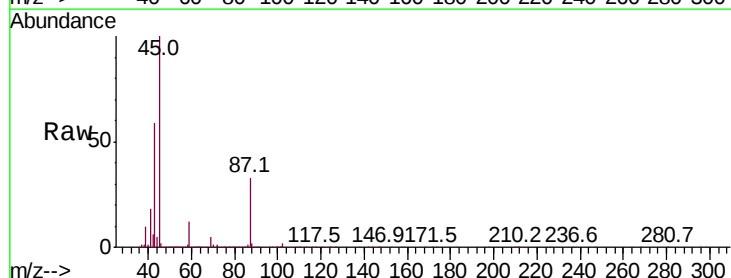
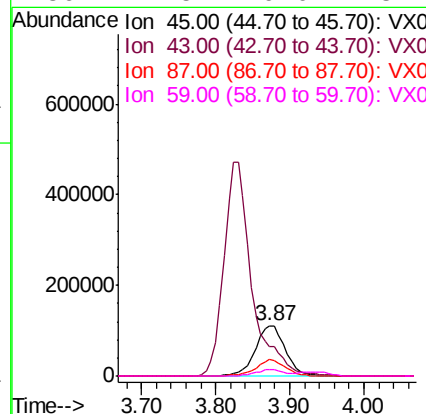
Ion Ratio Lower Upper

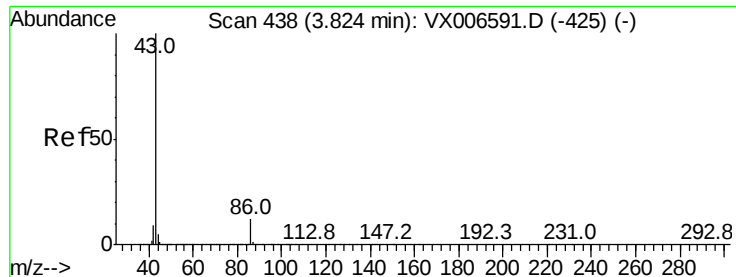
45 100

43 59.1 51.2 76.8

87 32.9 25.8 38.6

59 12.5 9.0 13.4





#23

Vinyl Acetate

Concen: 103.269 ug/l

RT: 3.83 min Scan# 439

Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 43 Resp: 1232842

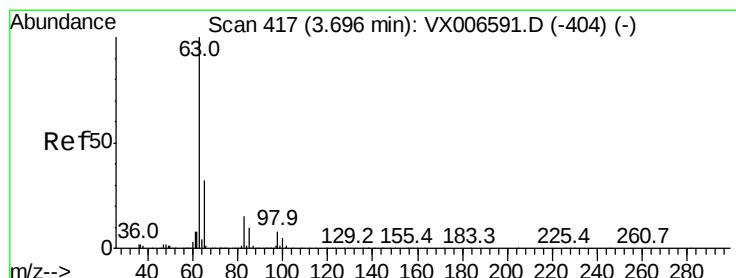
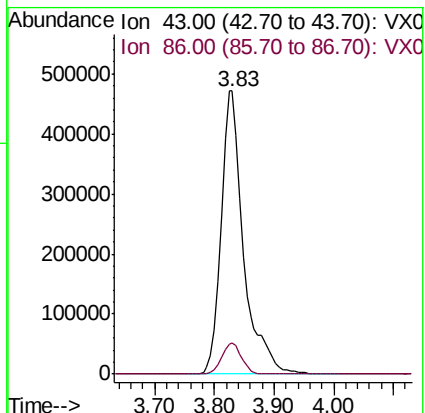
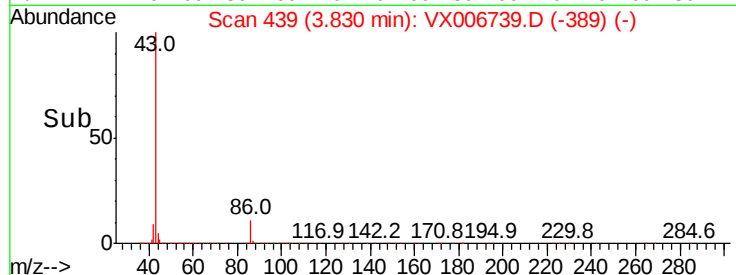
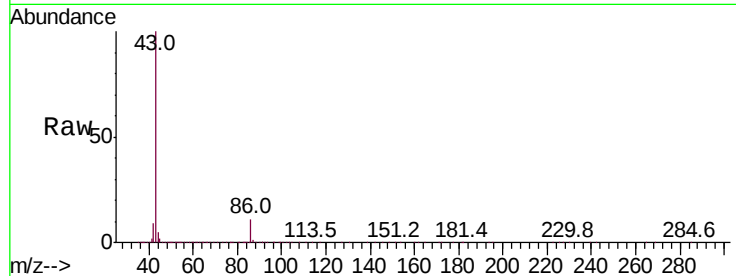
Ion Ratio Lower Upper

43 100

86 11.2 9.2 13.8

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#24

1,1-Dichloroethane

Concen: 20.140 ug/l

RT: 3.70 min Scan# 417

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

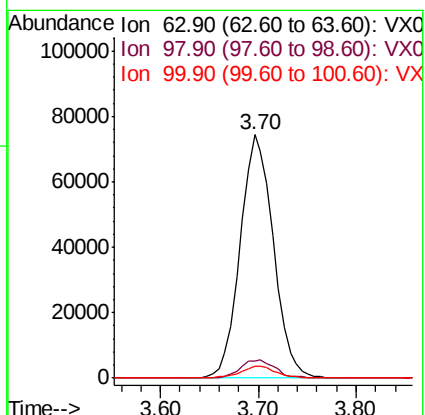
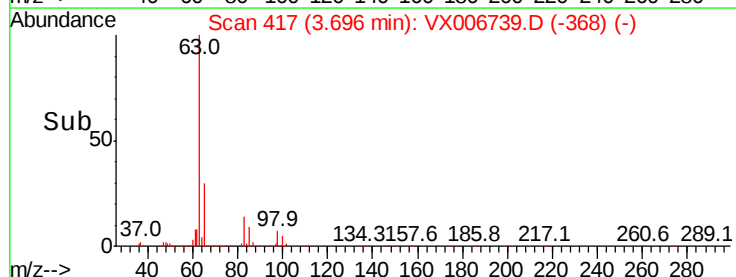
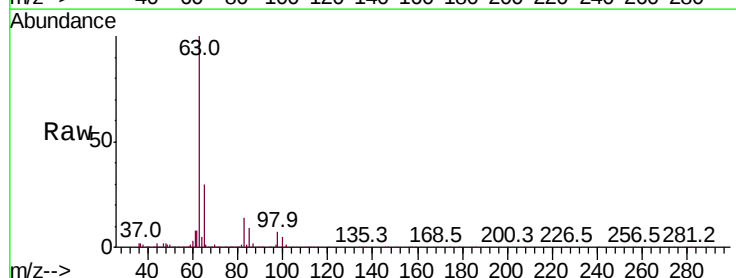
Tgt Ion: 63 Resp: 175469

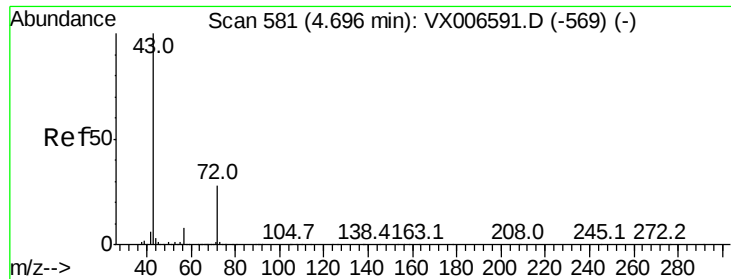
Ion Ratio Lower Upper

63 100

98 7.0 3.9 11.5

100 4.9 2.4 7.2





#25

2-Butanone

Concen: 110.166 ug/l

RT: 4.70 min Scan# 582

Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 43 Resp: 407027

Ion Ratio Lower Upper

43 100

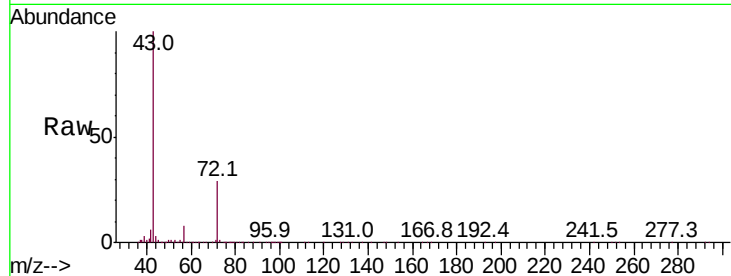
72 28.5 22.4 33.6

Manual Integrations

APPROVED

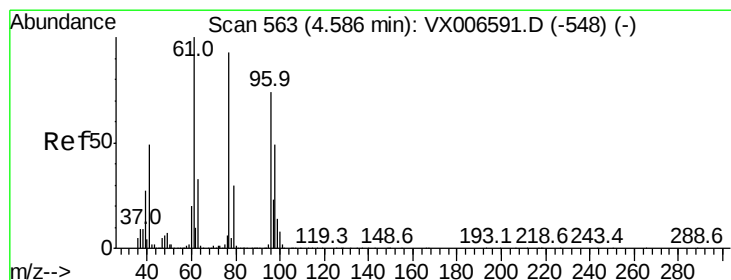
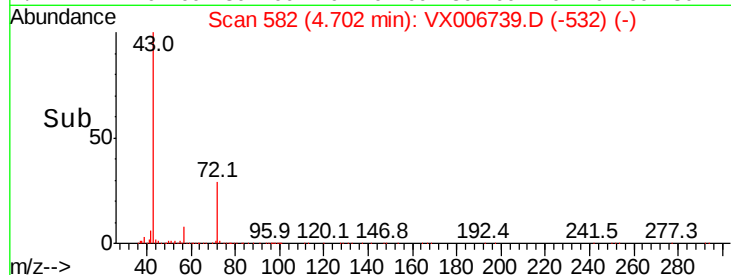
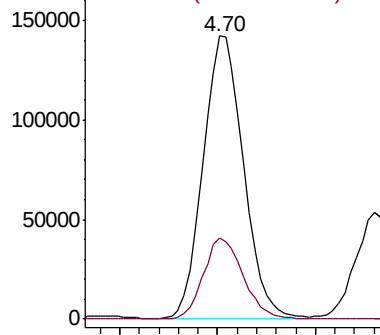
MMDadoda

12/22/2018 11:15:34 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 13.086 ug/l

RT: 4.59 min Scan# 564

Delta R.T. 0.01 min

Lab File: VX006739.D

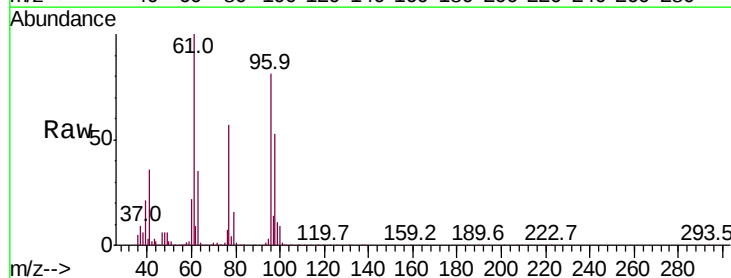
Acq: 21 Dec 2018 23:04

Tgt Ion: 77 Resp: 88072

Ion Ratio Lower Upper

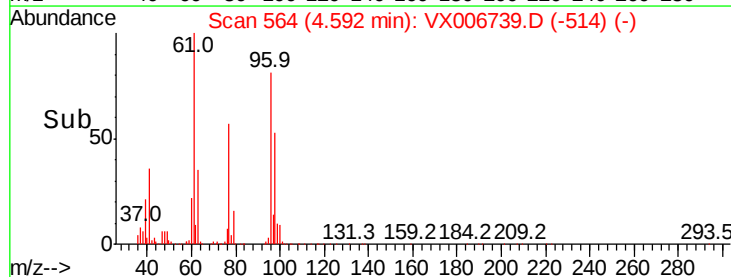
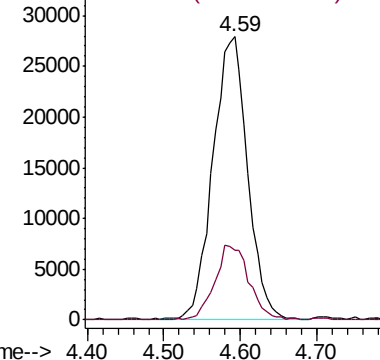
77 100

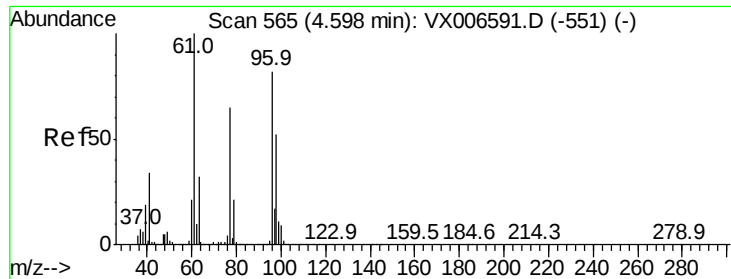
97 25.9 12.4 37.4



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#27

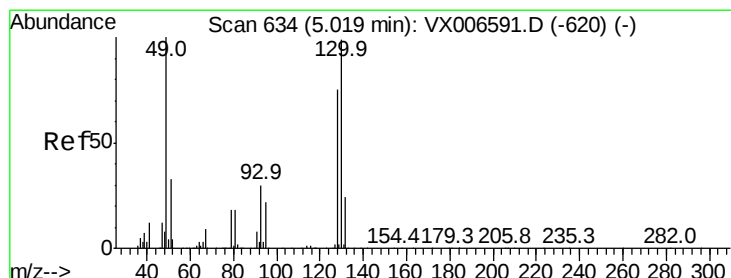
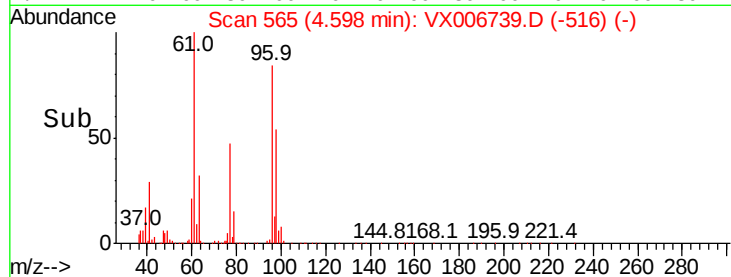
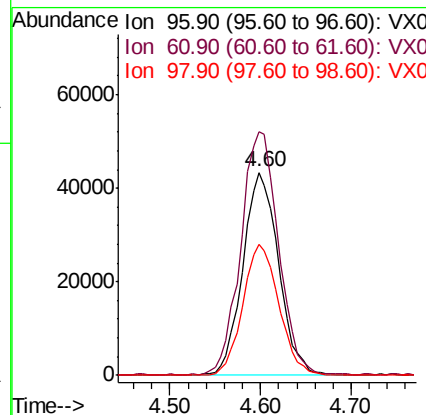
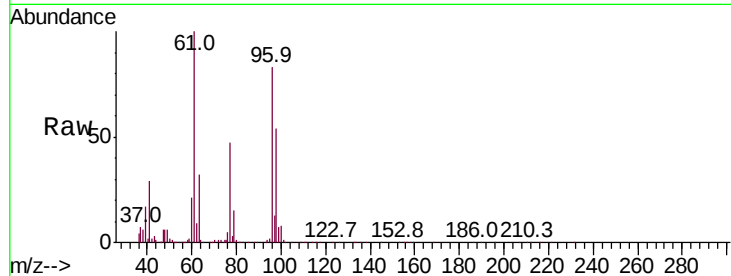
cis-1,2-Dichloroethene
Concen: 20.443 ug/l
RT: 4.60 min Scan# 565
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Resp	Lower	Upper
96	100	118445		
61	126.5	0.0	258.6	
98	65.2	0.0	132.0	

Manual Integrations
APPROVED

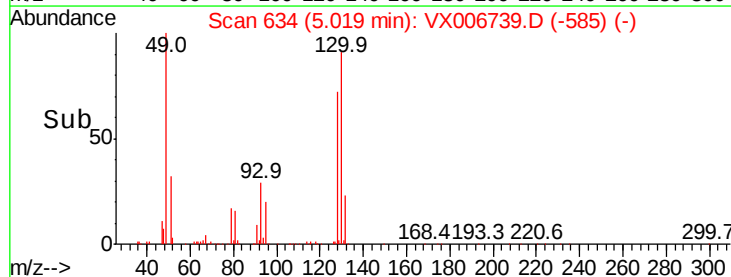
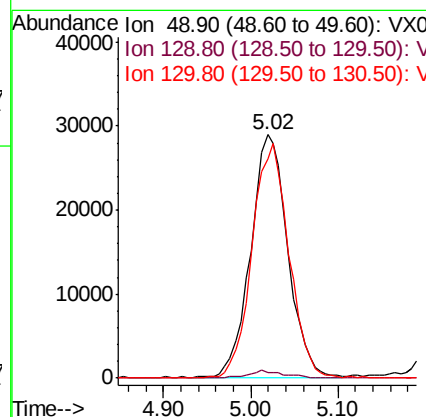
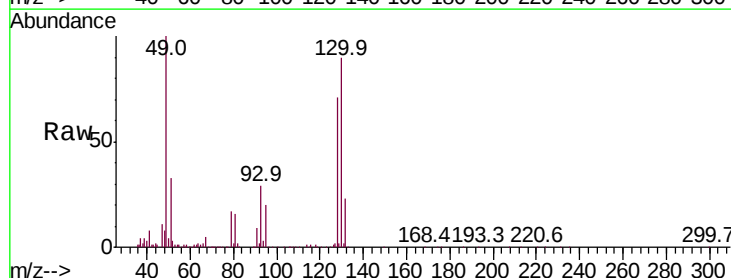
MMDadoda
12/22/2018 11:15:34 AM

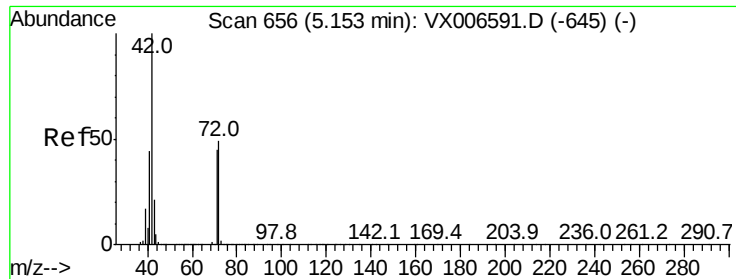


#28

Bromochloromethane
Concen: 22.315 ug/l
RT: 5.02 min Scan# 634
Delta R.T. 0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Resp	Lower	Upper
49	100	85726		
129	2.7	0.0	5.4	
130	95.4	77.7	116.5	





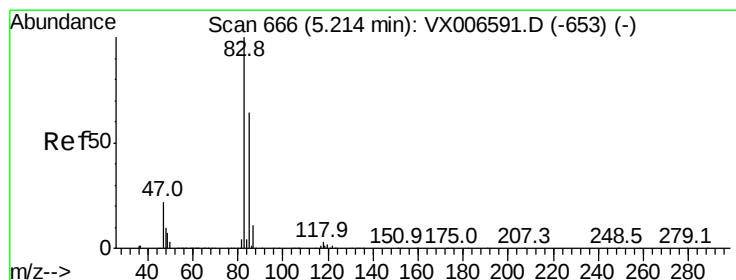
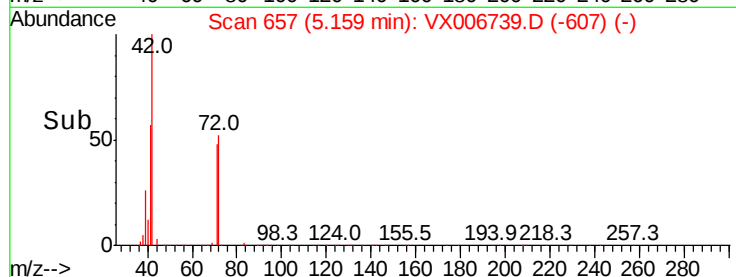
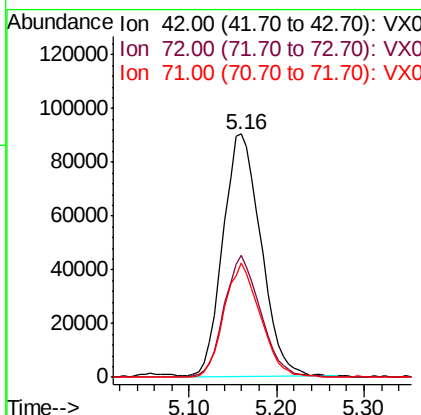
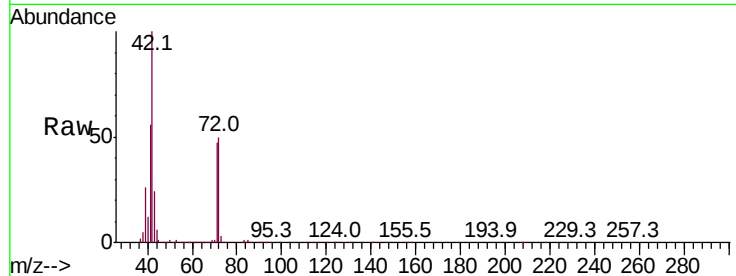
#29
Tetrahydrofuran
Concen: 111.679 ug/l
RT: 5.16 min Scan# 657
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Lower	Upper
42	100		
72	48.5	38.9	58.3
71	45.1	36.2	54.4

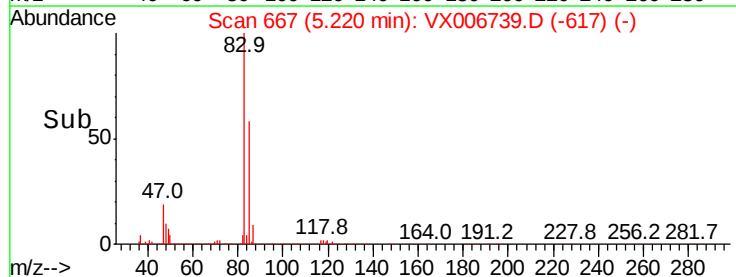
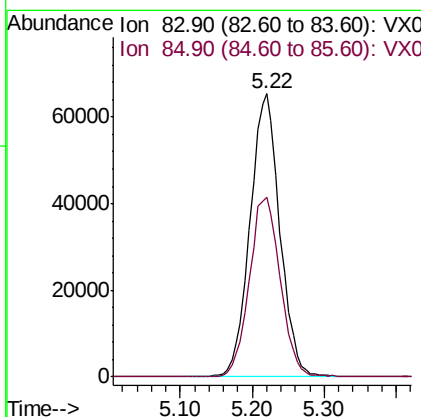
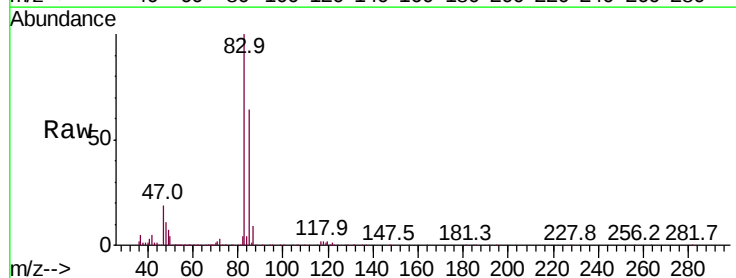
Manual Integrations
APPROVED

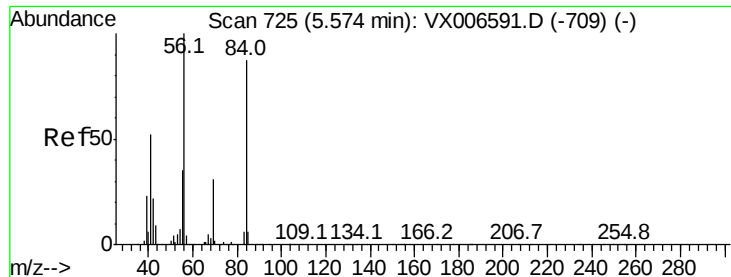
MMDadoda
12/22/2018 11:15:34 AM



#30
Chloroform
Concen: 20.849 ug/l
RT: 5.22 min Scan# 667
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.7	51.2	76.8





#31

Cyclohexane

Concen: 19.321 ug/l

RT: 5.57 min Scan# 725

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

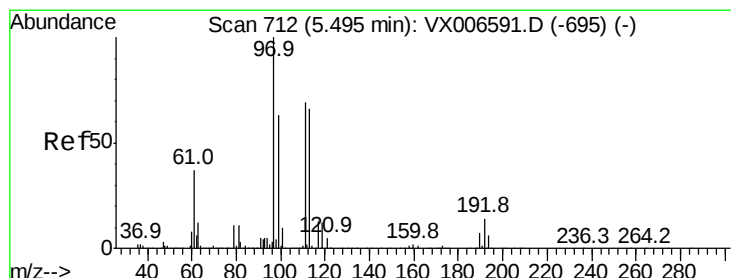
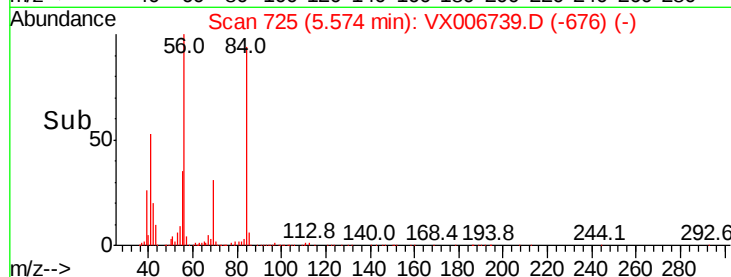
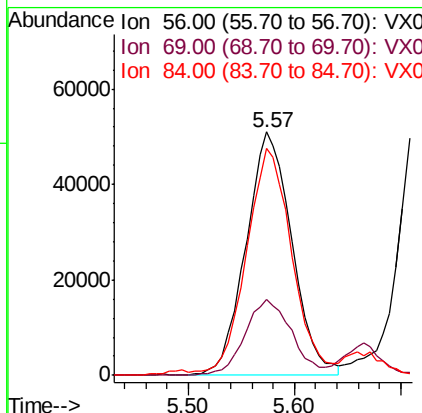
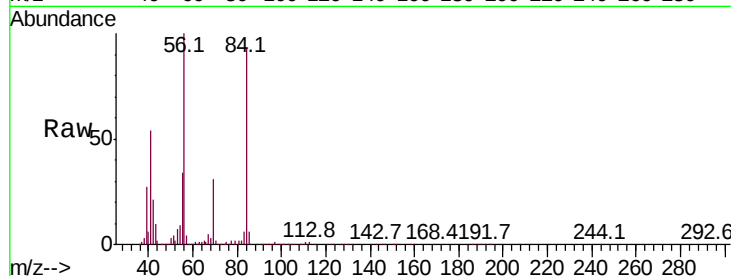
ClientSampleId :

VX1221WBS02

Tot Ion:	56	Resp:	152923
Ion Ratio	Lower	Upper	
56	100		
69	31.2	24.4	36.6
84	92.2	70.0	105.0

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#32

1,1,1-Trichloroethane

Concen: 19.863 ug/l

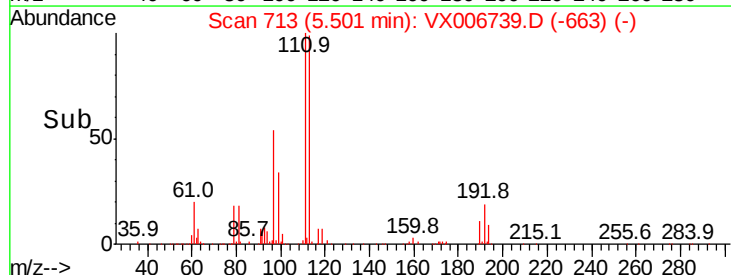
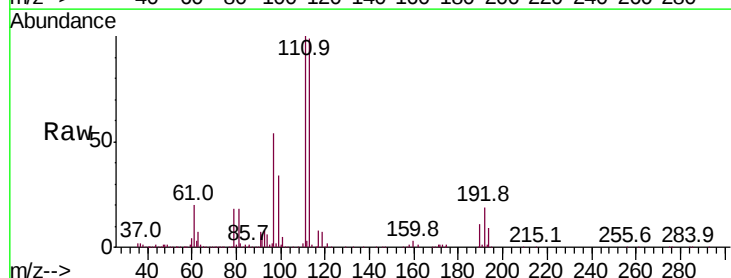
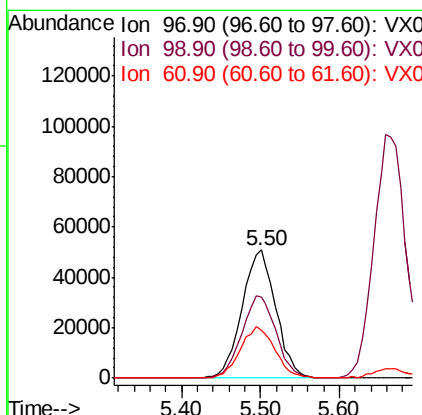
RT: 5.50 min Scan# 713

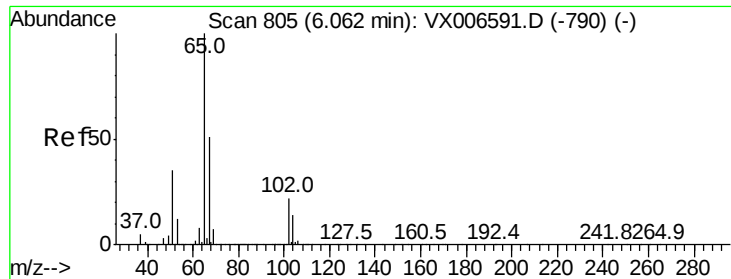
Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Tgt Ion:	97	Resp:	151317
Ion Ratio	Lower	Upper	
97	100		
99	65.3	51.7	77.5
61	41.7	31.3	46.9





#33

1,2-Dichloroethane-d4

Concen: 53.382 ug/l

RT: 6.07 min Scan# 806

Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 65 Resp: 305188

Ion Ratio Lower Upper

65 100

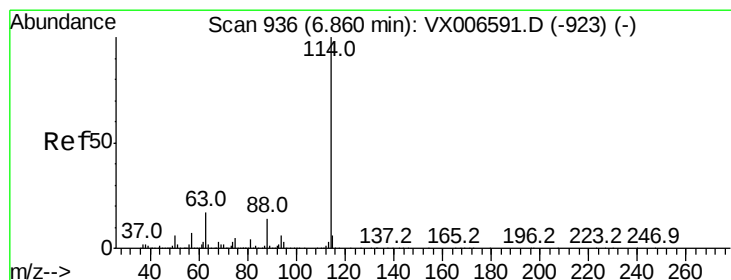
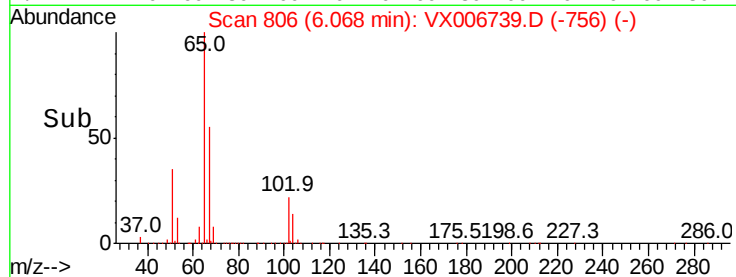
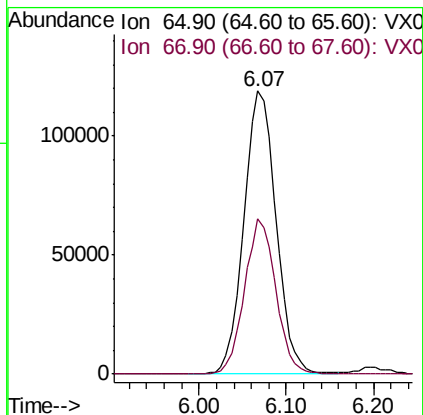
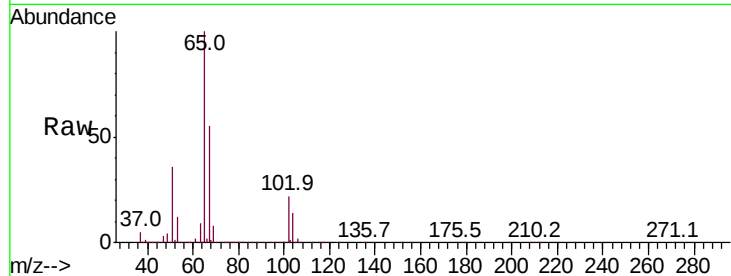
67 53.1 0.0 105.0

Manual Integrations

APPROVED

MMDadoda

12/22/2018 11:15:34 AM



#34

1,4-Difluorobenzene

Concen: 50.000 ug/l

RT: 6.86 min Scan# 936

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

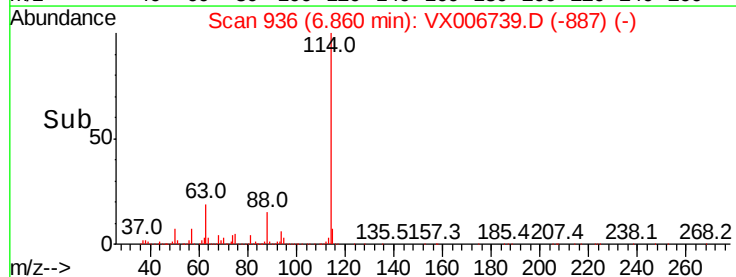
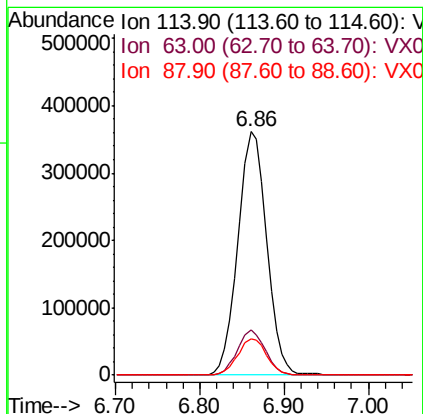
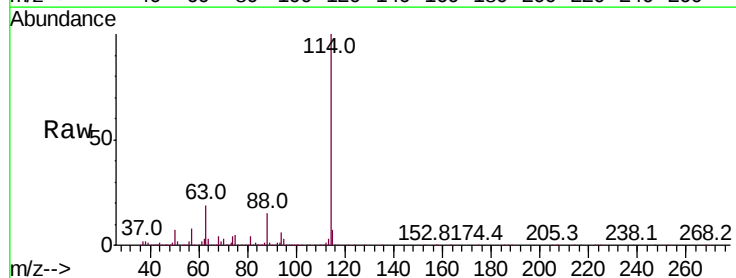
Tgt Ion: 114 Resp: 837952

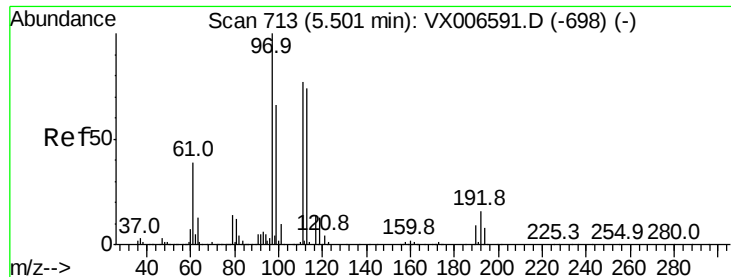
Ion Ratio Lower Upper

114 100

63 18.6 0.0 34.8

88 14.8 0.0 28.8





#35

Dibromofluoromethane

Concen: 51.478 ug/l

RT: 5.51 min Scan# 714

Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

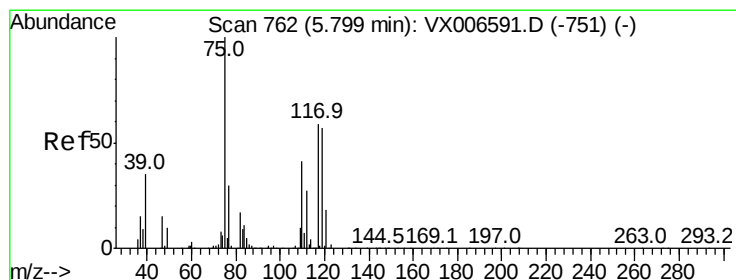
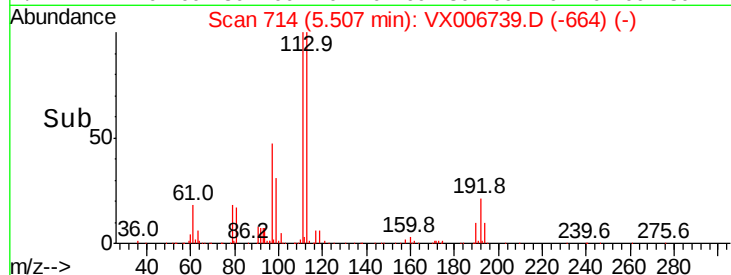
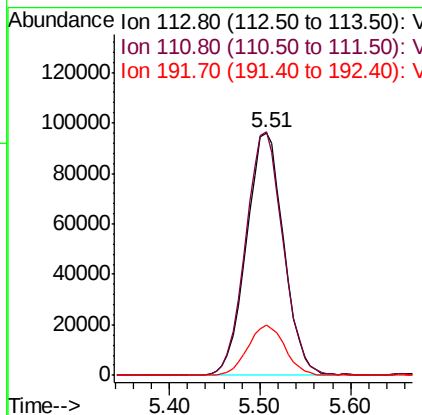
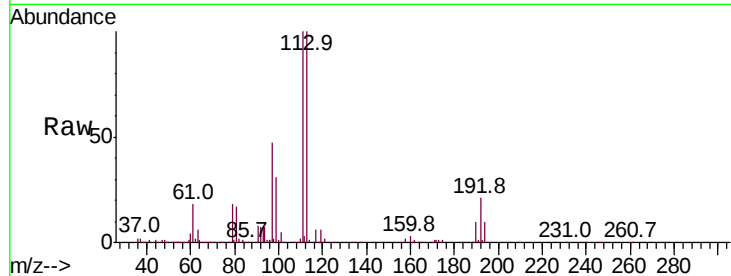
ClientSampleId :

VX1221WBS02

Tot Ion:	113	Resp:	272787
Ion Ratio	Lower	Upper	
113	100		
111	101.1	81.6	122.4
192	20.7	16.7	25.1

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#36

1,1-Dichloropropene

Concen: 19.178 ug/l

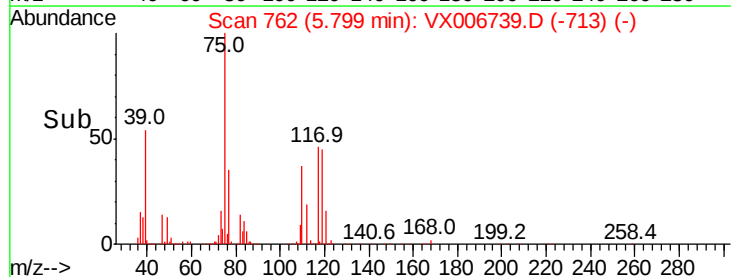
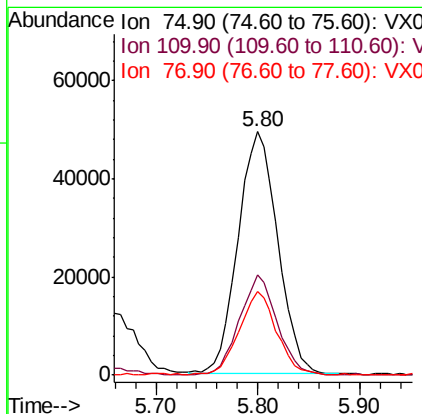
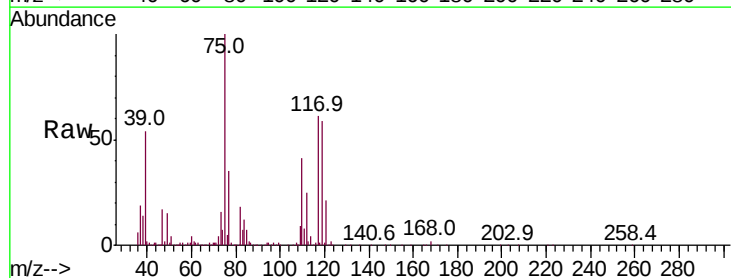
RT: 5.80 min Scan# 762

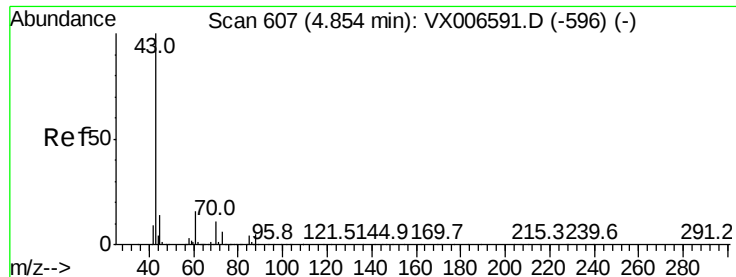
Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Tgt Ion:	75	Resp:	133100
Ion Ratio	Lower	Upper	
75	100		
110	39.4	20.2	60.5
77	32.1	24.8	37.2





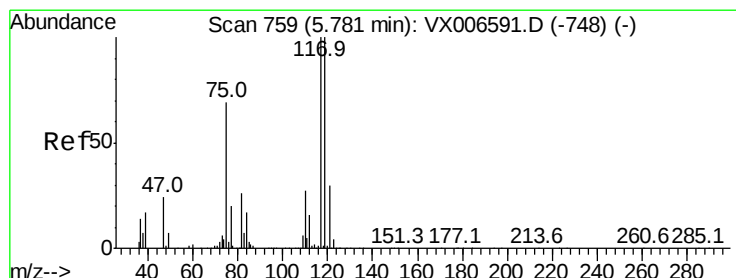
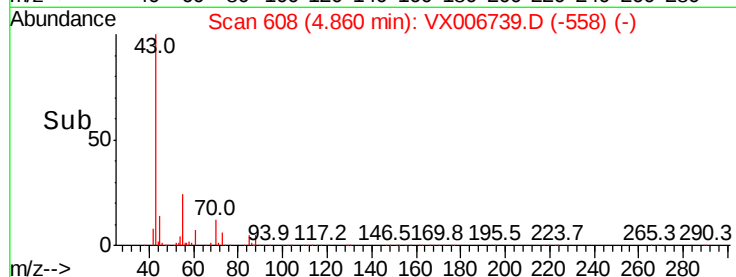
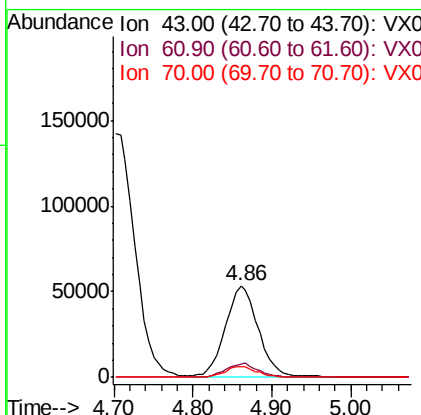
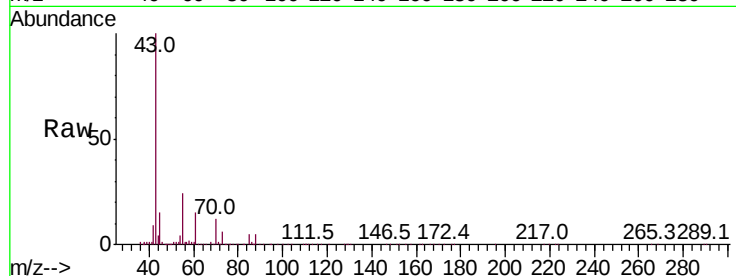
#37
Ethyl Acetate
Concen: 21.349 ug/l
RT: 4.86 min Scan# 608
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.3	11.9	17.9
70	11.8	9.7	14.5

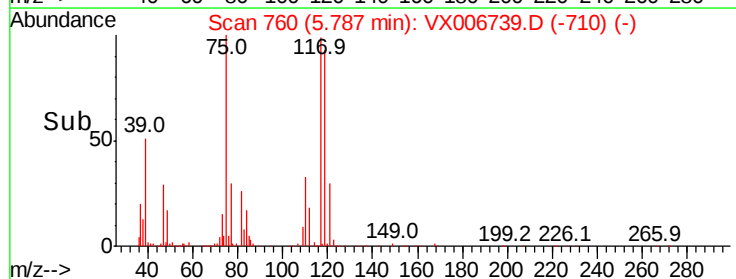
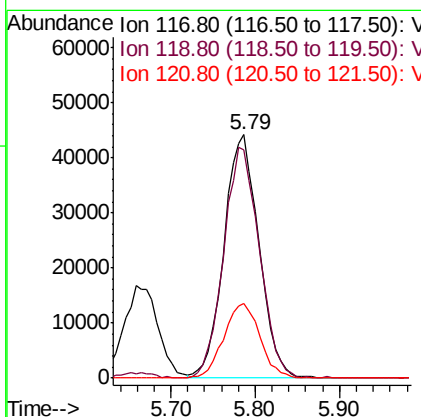
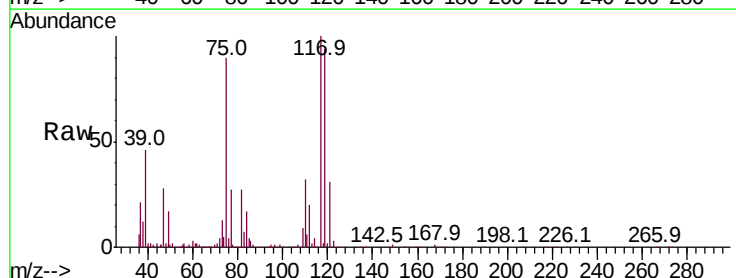
Manual Integrations
APPROVED

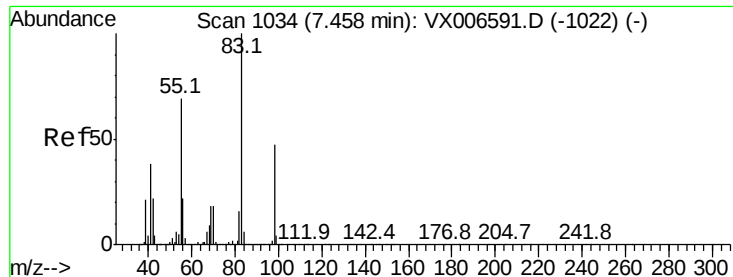
MMDadoda
12/22/2018 11:15:34 AM



#38
Carbon Tetrachloride
Concen: 18.516 ug/l
RT: 5.79 min Scan# 760
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.9	79.4	119.2
121	30.5	24.0	36.0





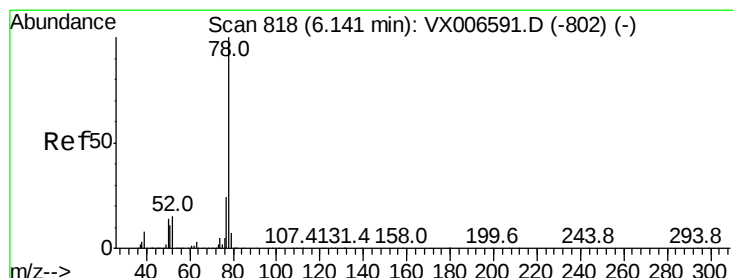
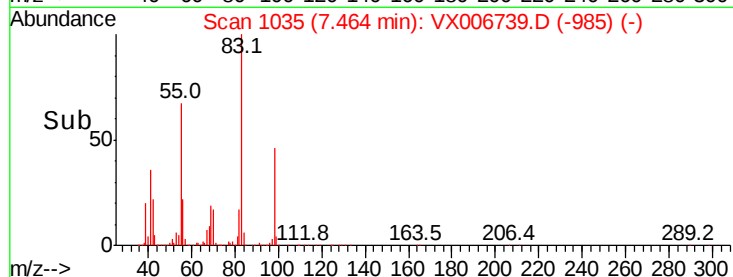
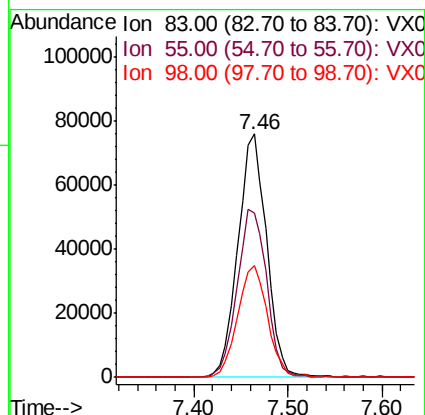
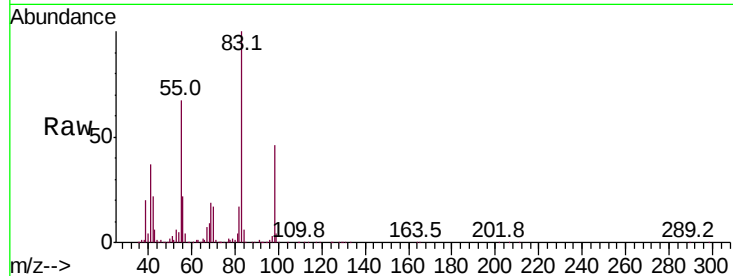
#39
Methylcyclohexane
Concen: 17.700 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Lower	Upper
83	100		
55	67.3	54.9	82.3
98	46.1	37.9	56.9

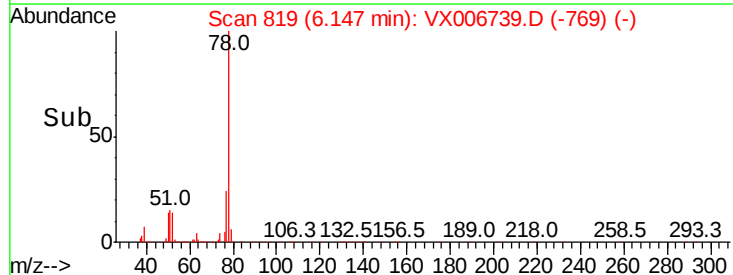
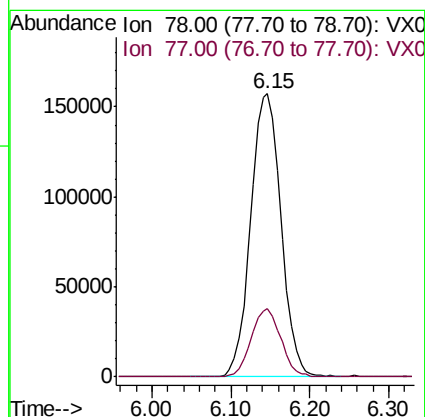
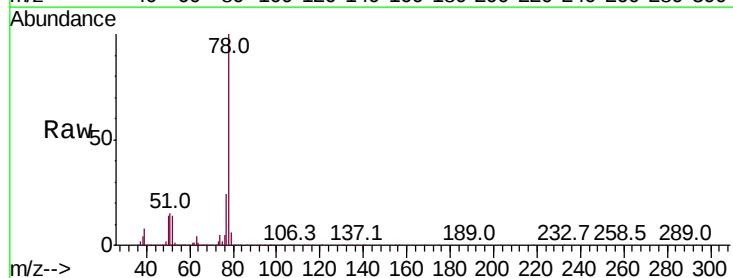
Manual Integrations
APPROVED

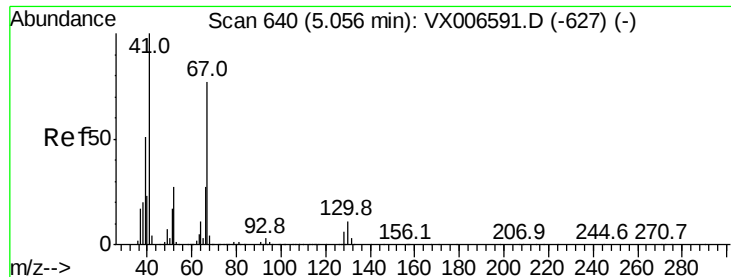
MMDadoda
12/22/2018 11:15:34 AM



#40
Benzene
Concen: 19.926 ug/l
RT: 6.15 min Scan# 819
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	24.1	19.2	28.8





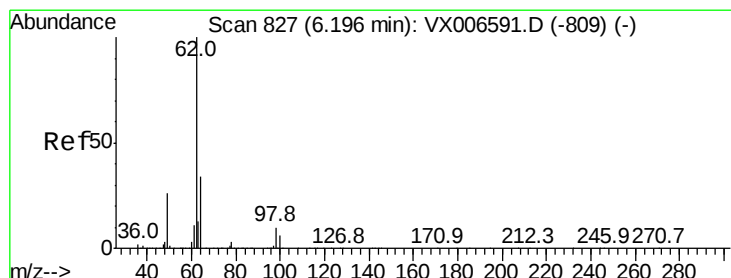
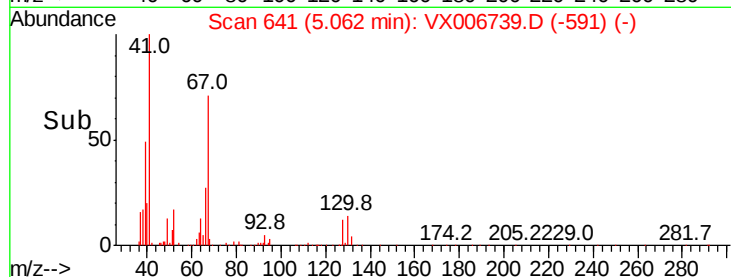
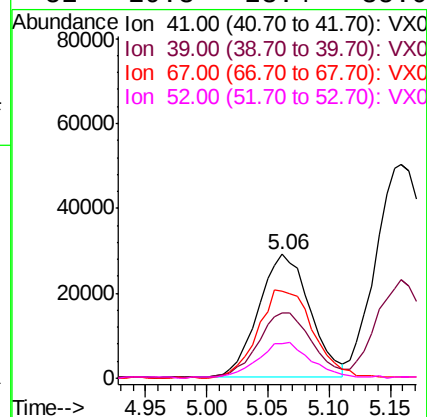
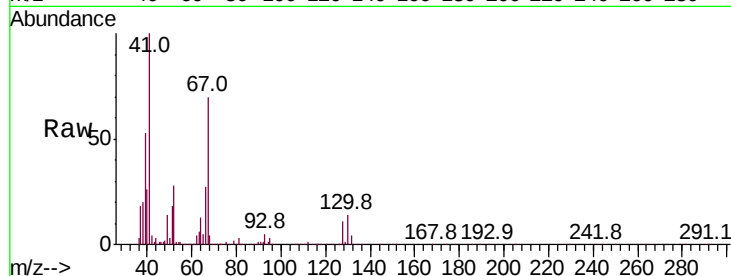
#41
Methacrylonitrile
Concen: 22.220 ug/l
RT: 5.06 min Scan# 641
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Lower	Upper
41	100		
39	53.9	42.8	64.2
67	76.2	62.1	93.1
52	29.3	23.4	35.0

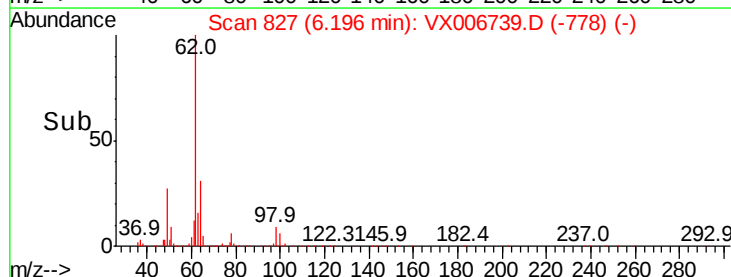
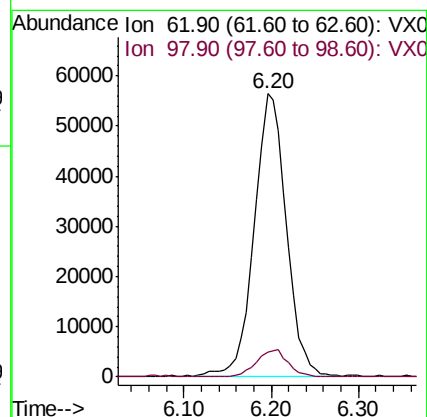
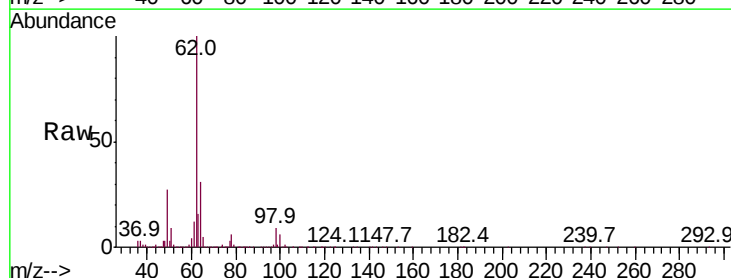
Manual Integrations
APPROVED

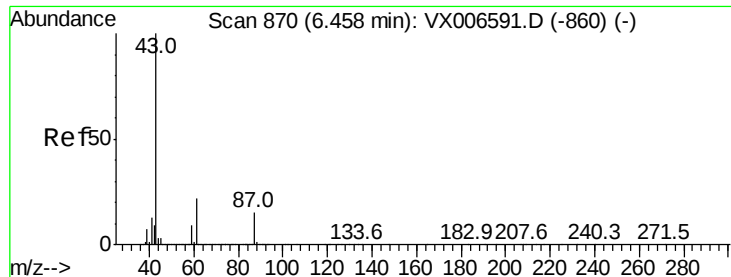
MMDadoda
12/22/2018 11:15:34 AM



#42
1,2-Dichloroethane
Concen: 20.125 ug/l
RT: 6.20 min Scan# 827
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.5	0.0	20.2





#43

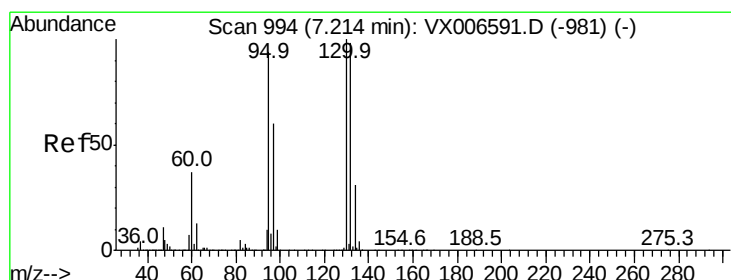
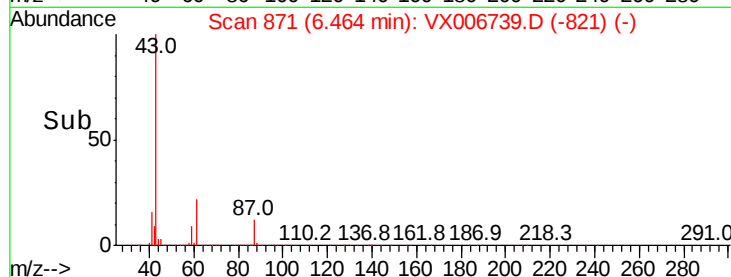
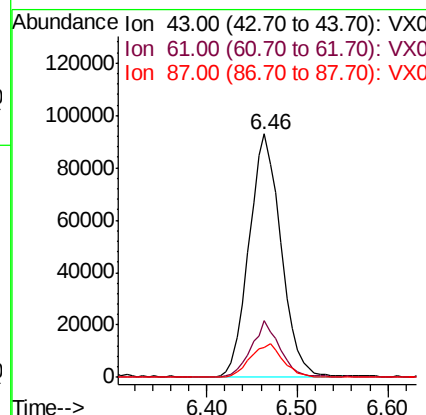
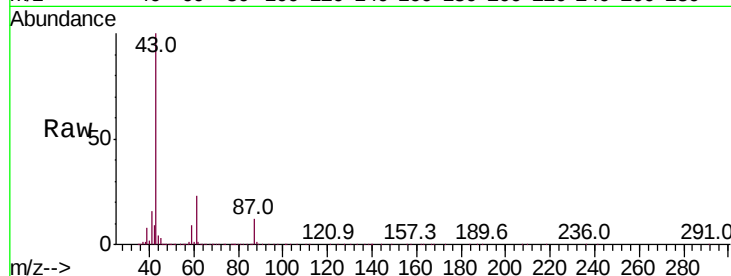
Isopropyl Acetate
Concen: 20.571 ug/l
RT: 6.46 min Scan# 871
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.7	16.8	25.2
87	14.4	12.4	18.6

Manual Integrations
APPROVED

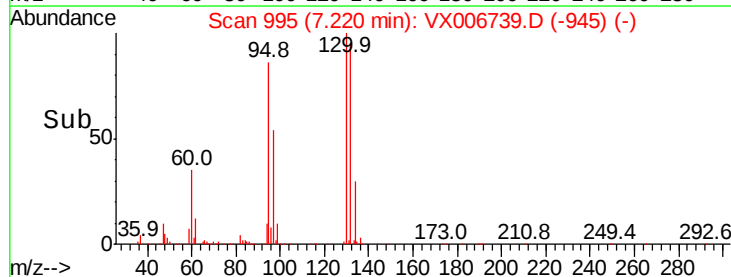
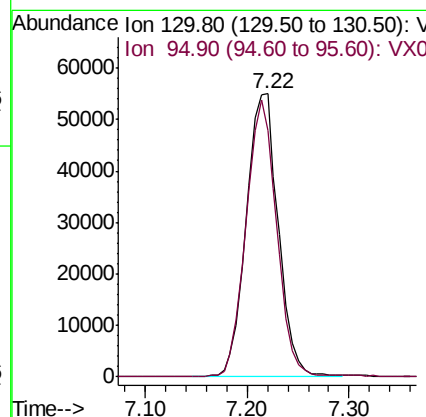
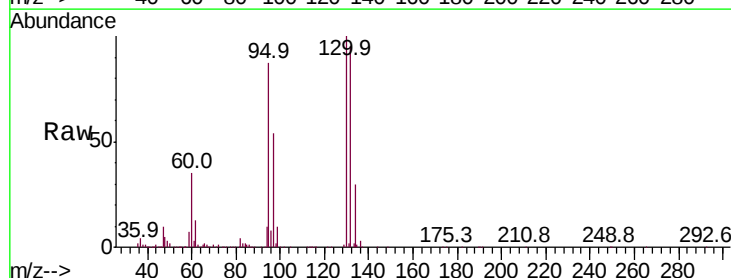
MMDadoda
12/22/2018 11:15:34 AM

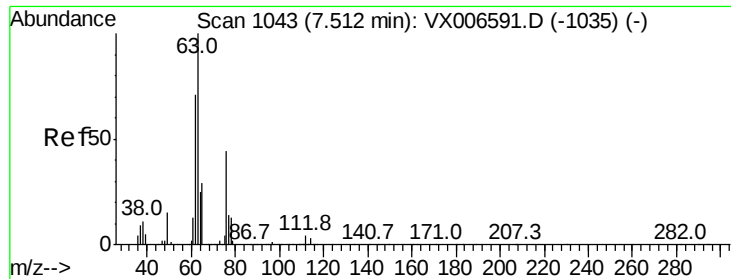


#44

Trichloroethene
Concen: 18.851 ug/l
RT: 7.22 min Scan# 995
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
130	100		
95	86.9	0.0	187.0





#45

1,2-Dichloropropane

Concen: 20.604 ug/l

RT: 7.52 min Scan# 1044

Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 63 Resp: 105772

Ion Ratio Lower Upper

63 100

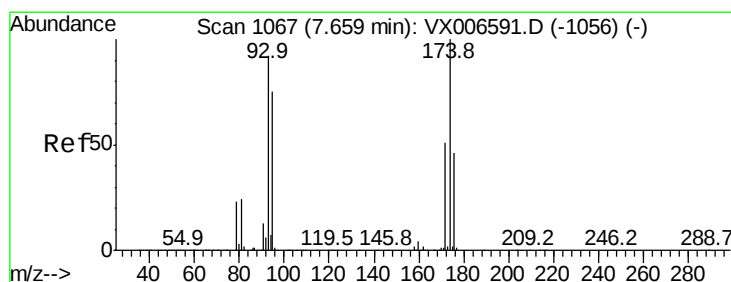
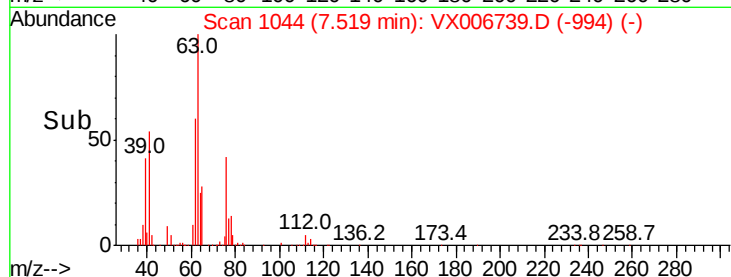
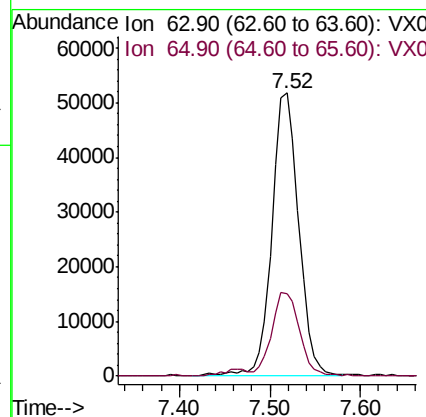
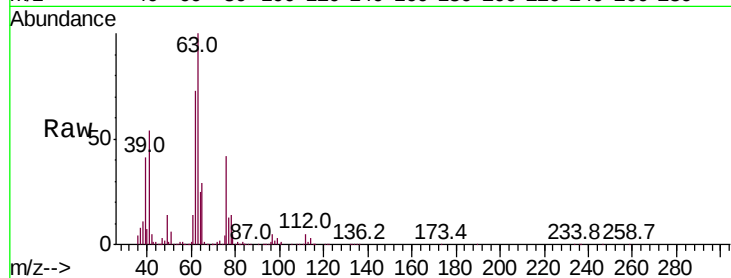
65 28.8 25.4 38.0

Manual Integrations

APPROVED

MMDadoda

12/22/2018 11:15:34 AM



#46

Dibromomethane

Concen: 19.681 ug/l

RT: 7.66 min Scan# 1068

Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

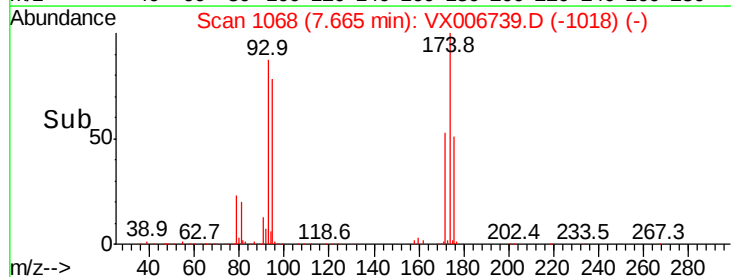
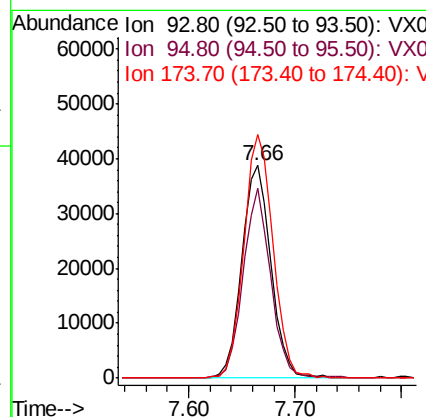
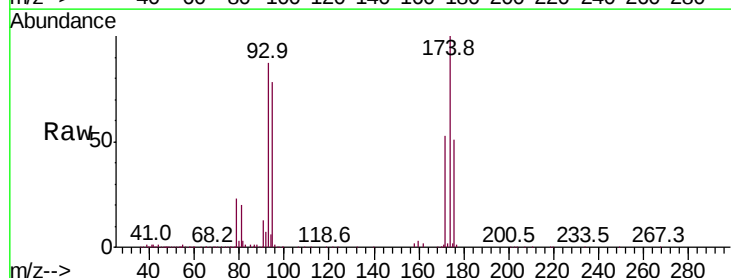
Tgt Ion: 93 Resp: 74317

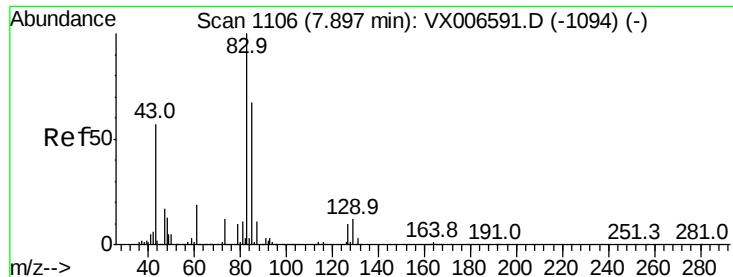
Ion Ratio Lower Upper

93 100

95 84.9 66.2 99.4

174 115.5 91.0 136.4





#47

Bromodichloromethane

Concen: 18.762 ug/l

RT: 7.90 min Scan# 1107

Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

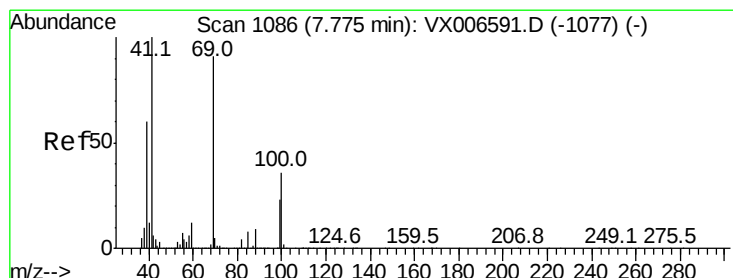
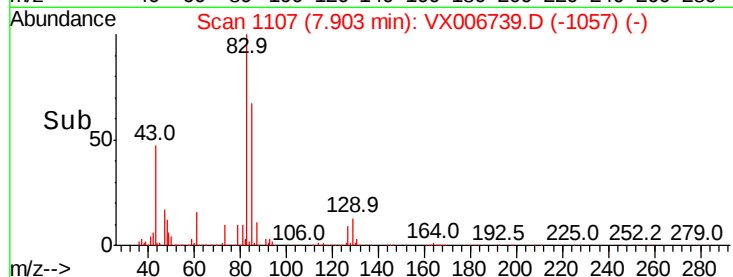
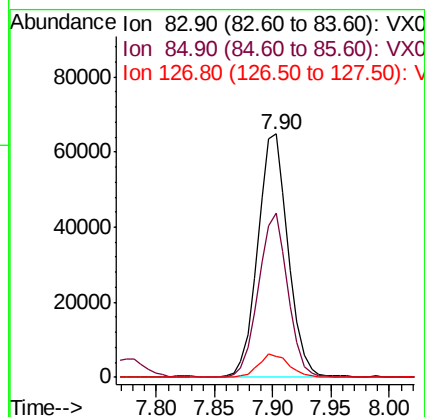
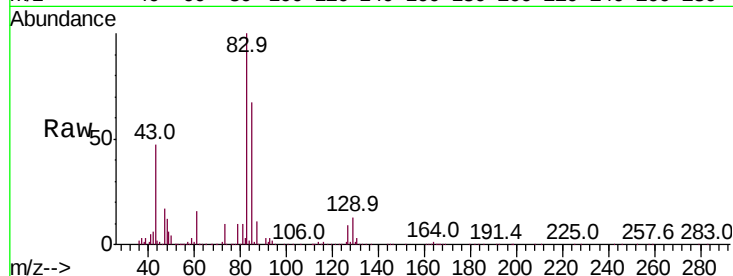
ClientSampleId :

VX1221WBS02

Tot Ion:	83	Resp:	117623
Ion Ratio	Lower	Upper	
83	100		
85	67.1	53.2	79.8
127	8.7	7.8	11.6

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#48

Methyl methacrylate

Concen: 21.261 ug/l

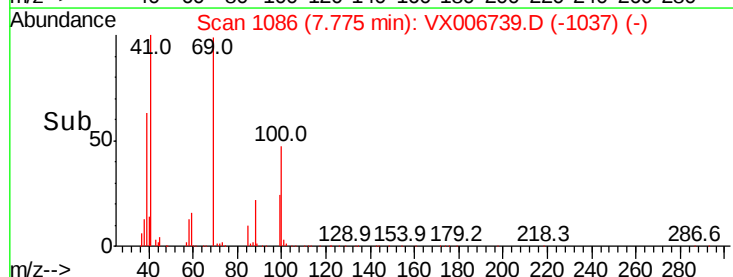
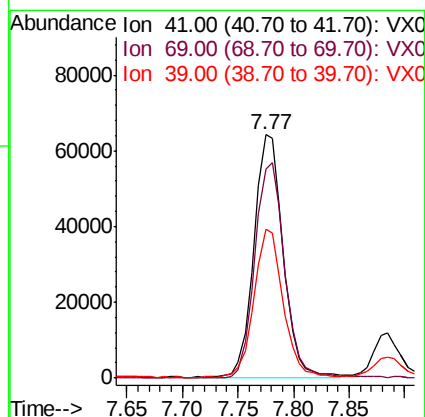
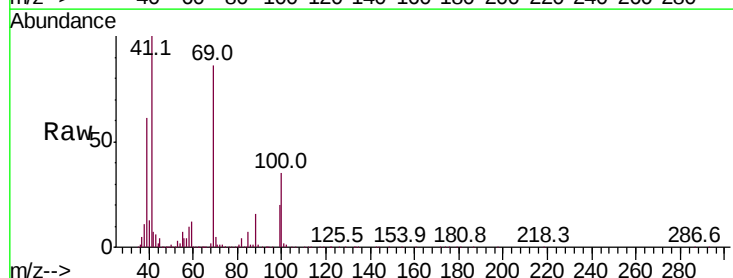
RT: 7.77 min Scan# 1086

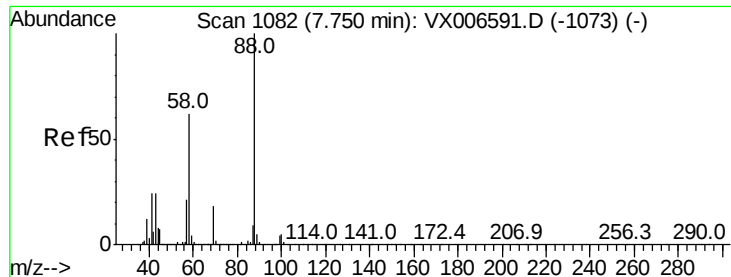
Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Tgt Ion:	41	Resp:	118831
Ion Ratio	Lower	Upper	
41	100		
69	89.3	72.4	108.6
39	59.8	45.8	68.8





#49

1,4-Dioxane

Concen: 426.232 ug/l

RT: 7.76 min Scan# 1083

Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

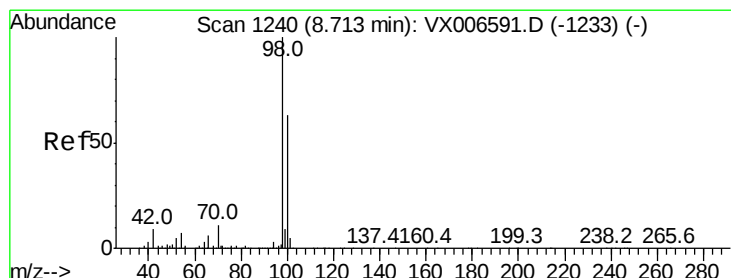
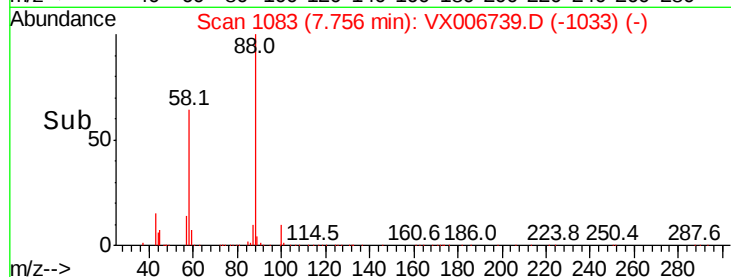
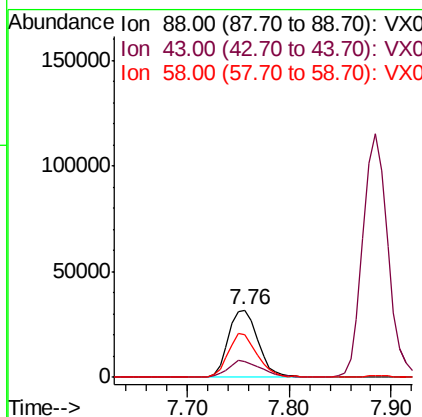
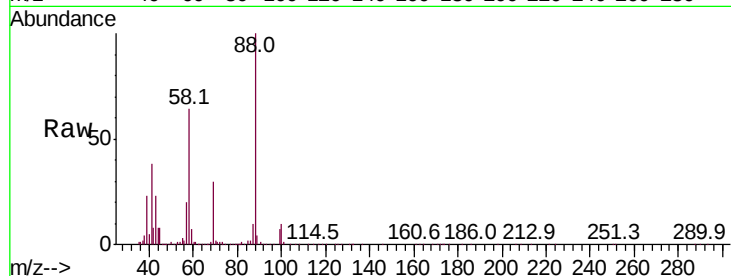
ClientSampleId :

VX1221WBS02

Tot Ion:	88	Resp:	63999
Ion	Ratio	Lower	Upper
88	100		
43	28.3	22.2	33.4
58	65.0	51.0	76.4

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#50

Toluene-d8

Concen: 49.657 ug/l

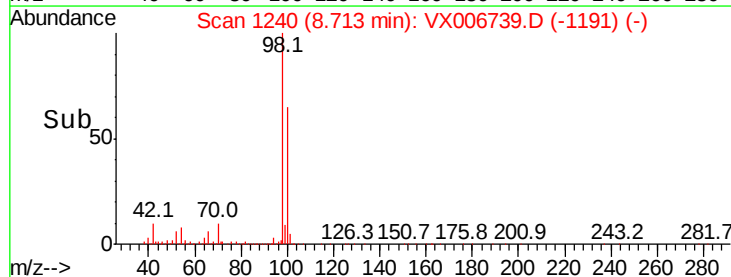
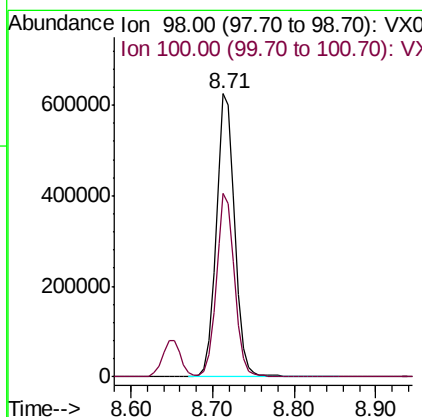
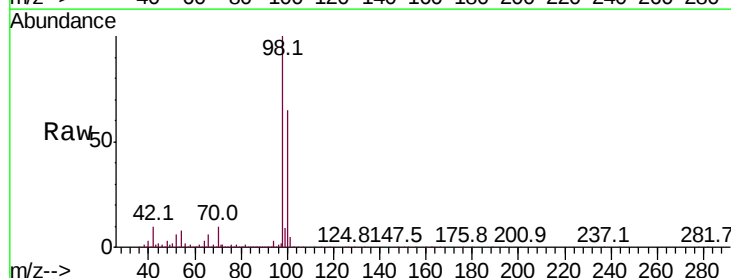
RT: 8.71 min Scan# 1240

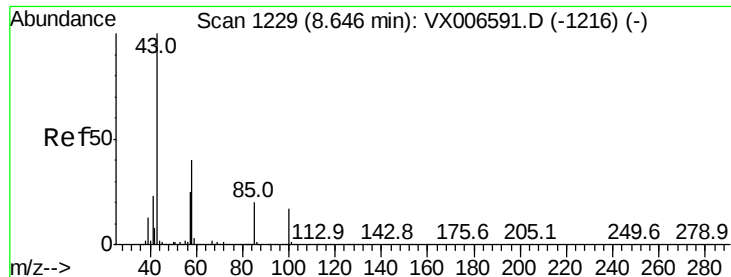
Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Tgt Ion:	98	Resp:	992032
Ion	Ratio	Lower	Upper
98	100		
100	63.8	52.0	78.0





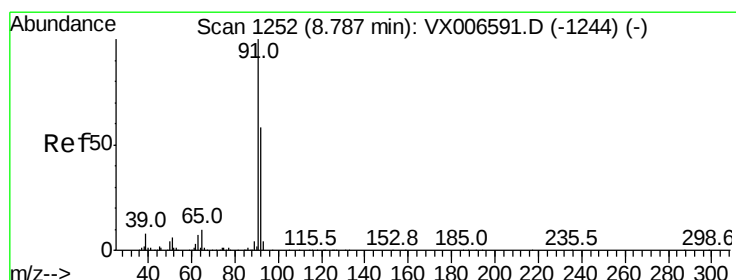
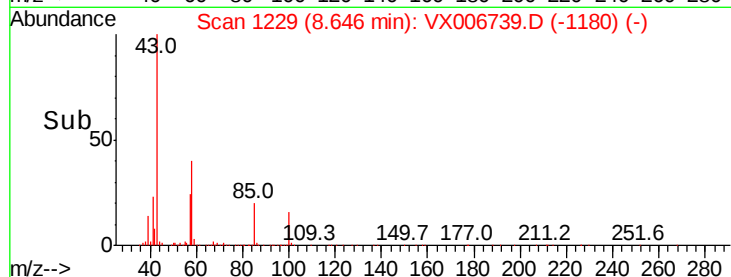
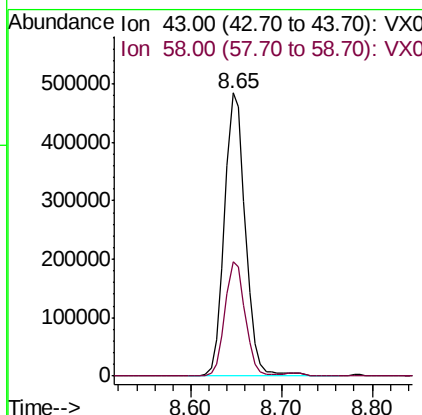
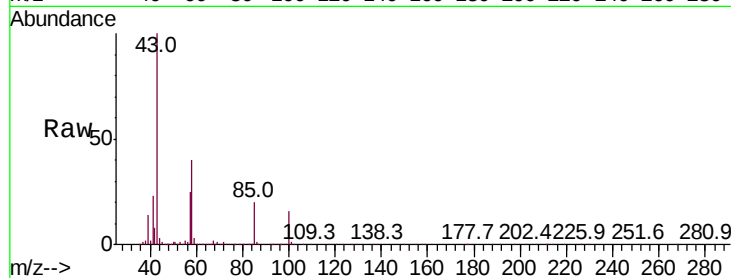
#51
4-Methyl-2-Pentanone
Concen: 111.233 ug/l
RT: 8.65 min Scan# 1229
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	43	58	Ratio	100	39.2	Resp	777869	Lower	31.8	Upper	47.6
Ion	43	58	Ratio	100	39.2	Resp	777869	Lower	31.8	Upper	47.6

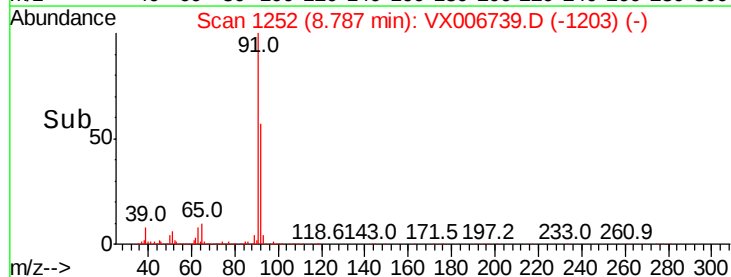
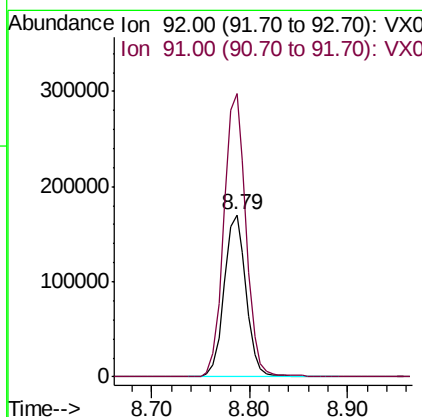
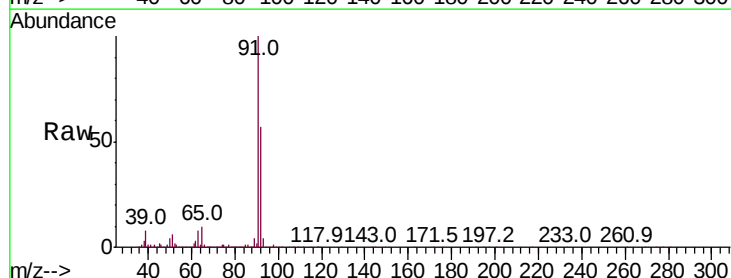
Manual Integrations
APPROVED

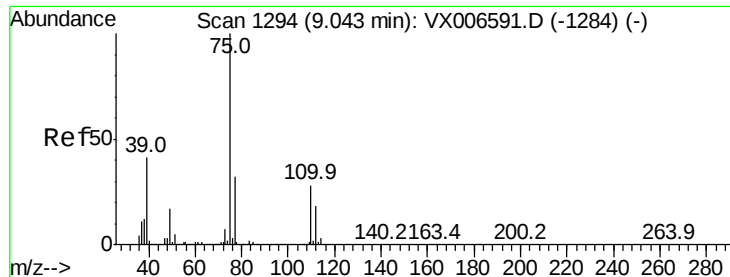
MMDadoda
12/22/2018 11:15:34 AM



#52
Toluene
Concen: 19.383 ug/l
RT: 8.79 min Scan# 1252
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	92	91	Ratio	100	176.2	Resp	264174	Lower	137.6	Upper	206.4
Ion	92	91	Ratio	100	176.2	Resp	264174	Lower	137.6	Upper	206.4





#53

t-1,3-Dichloropropene

Concen: 17.145 ug/l

RT: 9.04 min Scan# 1294

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 75 Resp: 115273

Ion Ratio Lower Upper

75 100

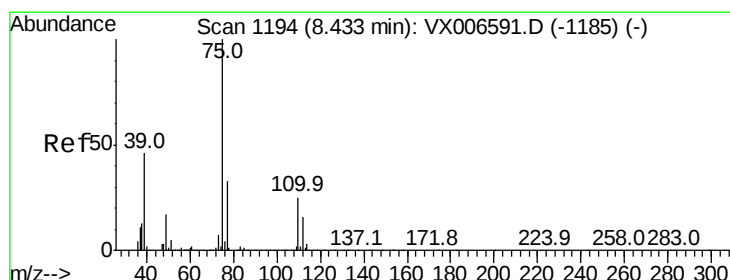
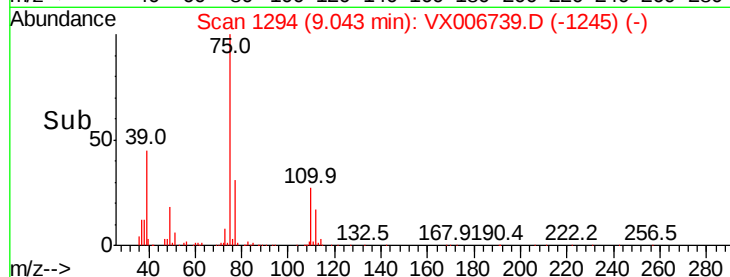
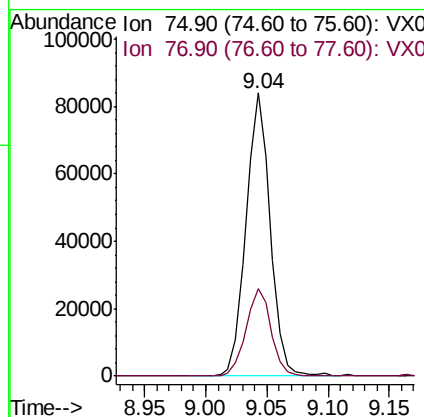
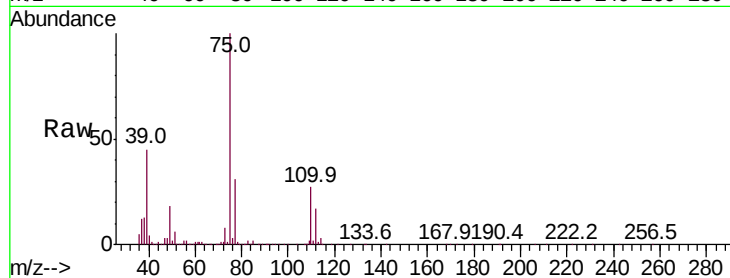
77 30.8 25.4 38.0

Manual Integrations

APPROVED

MMDadoda

12/22/2018 11:15:34 AM



#54

cis-1,3-Dichloropropene

Concen: 18.401 ug/l

RT: 8.44 min Scan# 1195

Delta R.T. 0.01 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

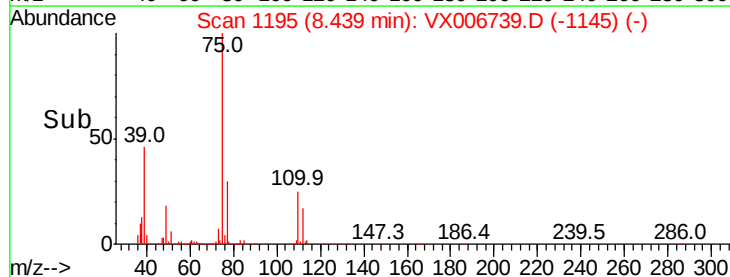
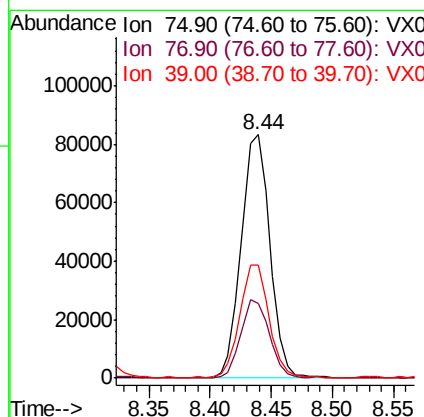
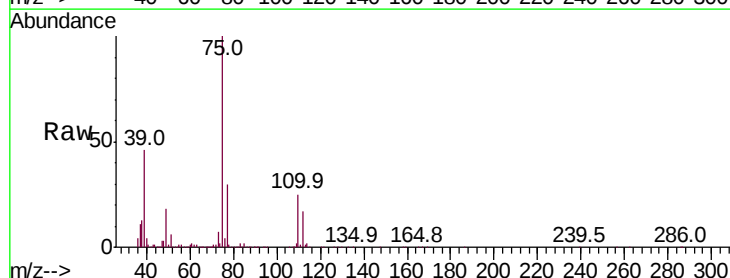
Tgt Ion: 75 Resp: 135754

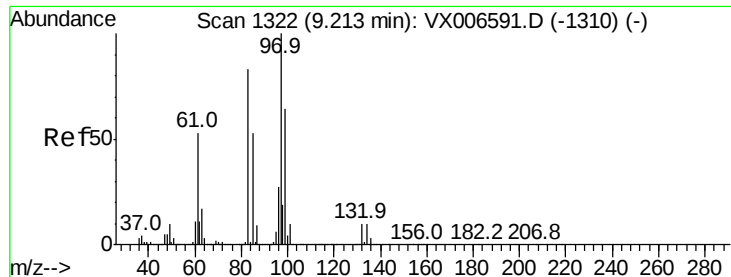
Ion Ratio Lower Upper

75 100

77 30.4 26.2 39.2

39 46.1 36.7 55.1





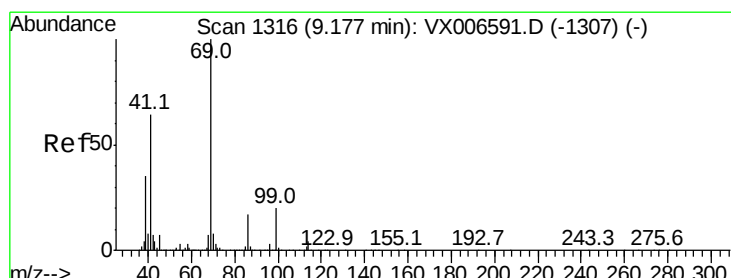
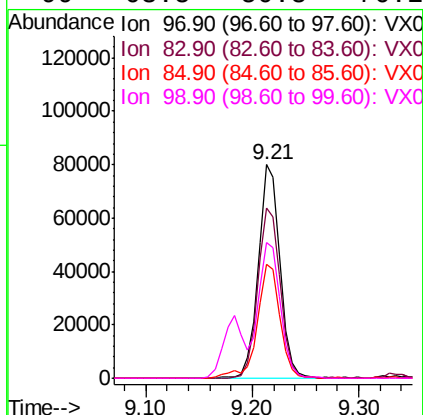
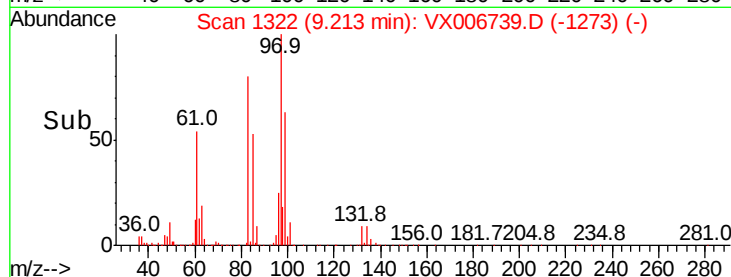
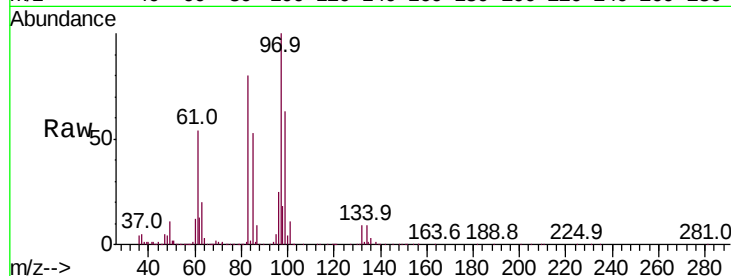
#55
1,1,2-Trichloroethane
Concen: 20.529 ug/l
RT: 9.21 min Scan# 1322
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Lower	Upper
97	100		
83	80.0	66.6	99.8
85	52.9	42.7	64.1
99	63.5	50.8	76.2

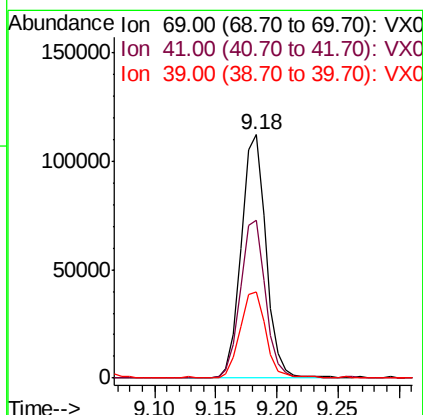
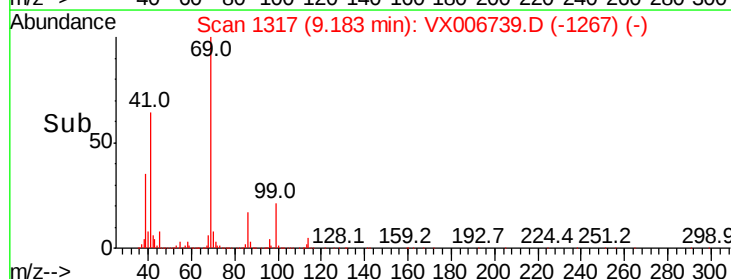
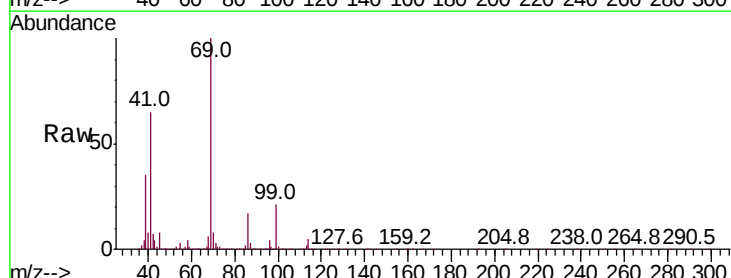
Manual Integrations
APPROVED

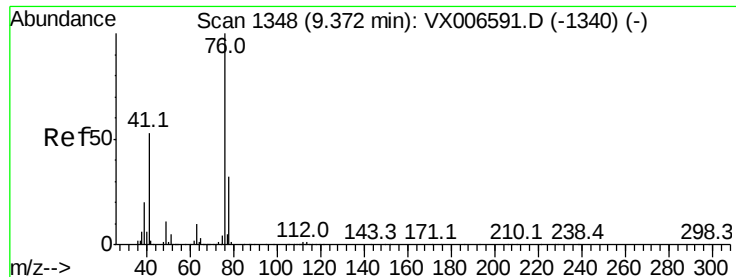
MMDadoda
12/22/2018 11:15:34 AM



#56
Ethyl methacrylate
Concen: 19.915 ug/l
RT: 9.18 min Scan# 1317
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
69	100		
41	65.5	48.7	73.1
39	35.9	27.0	40.6





#57

1,3-Dichloropropane

Concen: 20.268 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 76 Resp: 181909

Ion Ratio Lower Upper

76 100

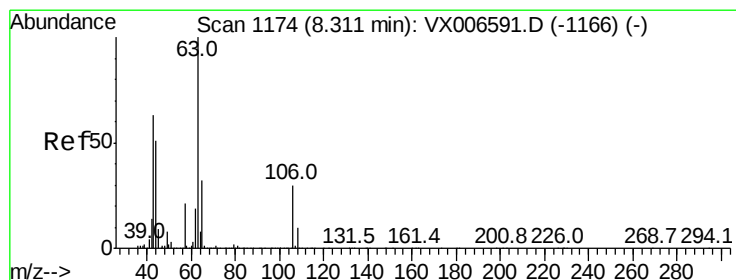
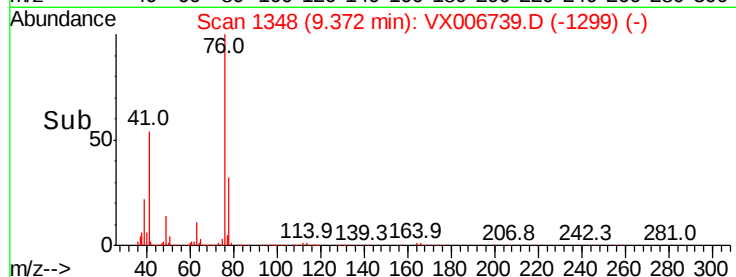
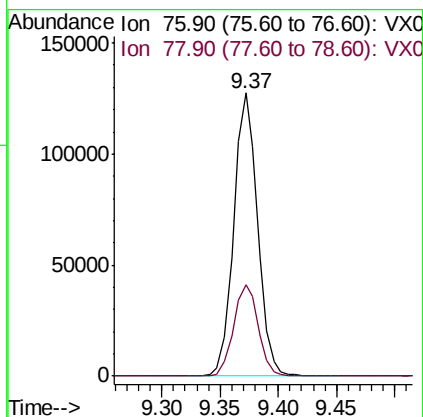
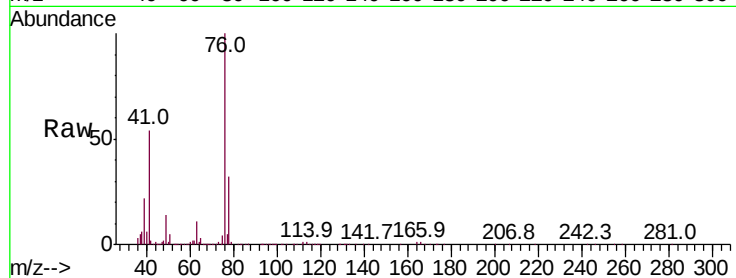
78 33.5 26.0 39.0

Manual Integrations

APPROVED

MMDadoda

12/22/2018 11:15:34 AM



#58

2-Chloroethyl Vinyl ether

Concen: 103.313 ug/l

RT: 8.31 min Scan# 1174

Delta R.T. -0.00 min

Lab File: VX006739.D

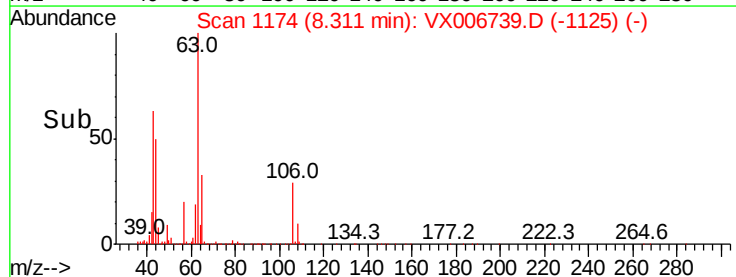
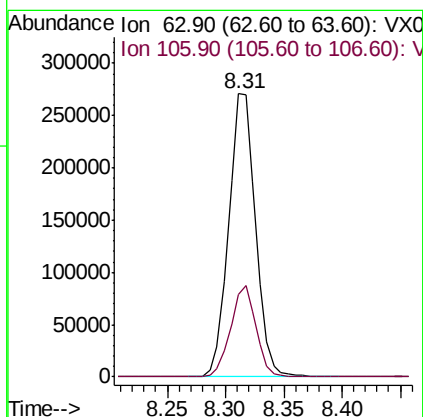
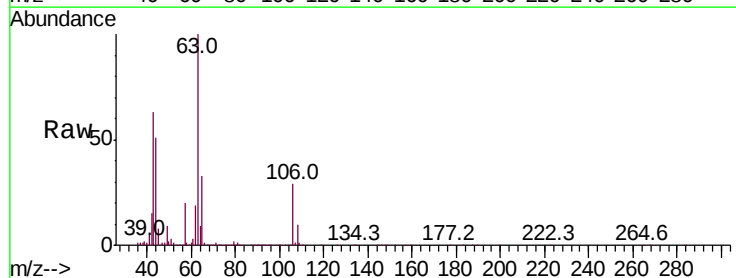
Acq: 21 Dec 2018 23:04

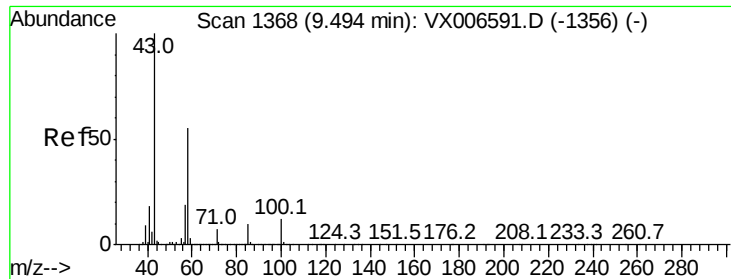
Tgt Ion: 63 Resp: 432998

Ion Ratio Lower Upper

63 100

106 30.9 24.6 36.8





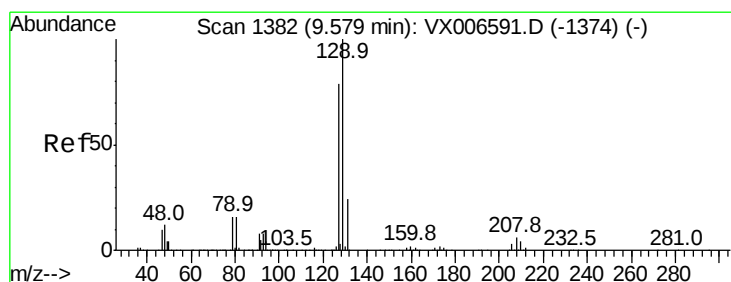
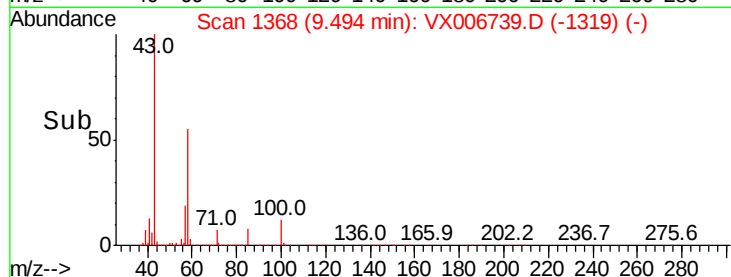
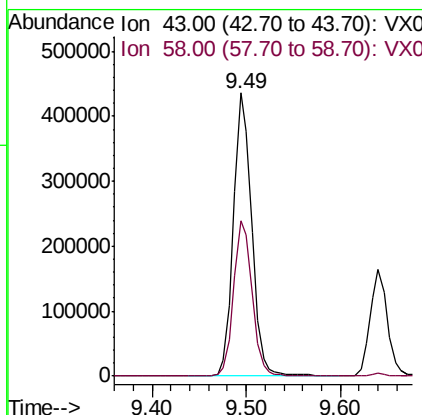
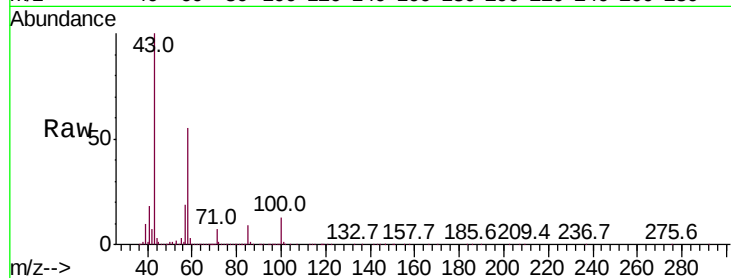
#59
2-Hexanone
Concen: 109.559 ug/l
RT: 9.49 min Scan# 1368
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.5	27.7	83.1

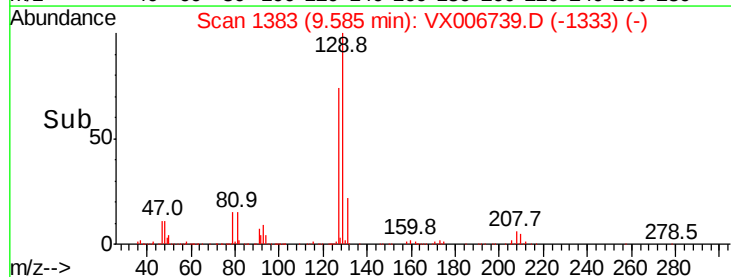
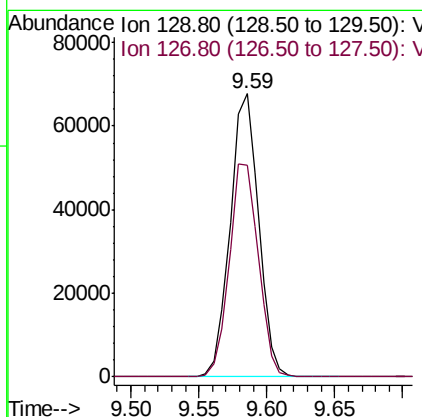
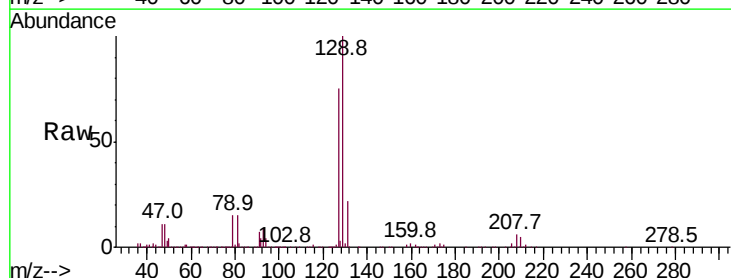
Manual Integrations
APPROVED

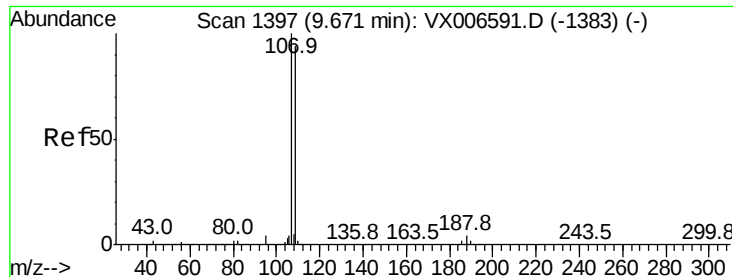
MMDadoda
12/22/2018 11:15:34 AM



#60
Dibromochloromethane
Concen: 18.433 ug/l
RT: 9.59 min Scan# 1383
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.8	39.3	117.8





#61

1,2-Dibromoethane

Concen: 20.675 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 107 Resp: 122605

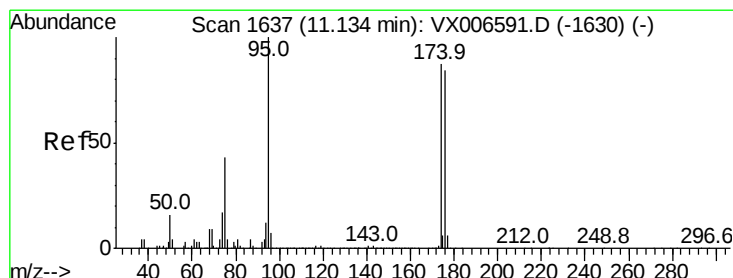
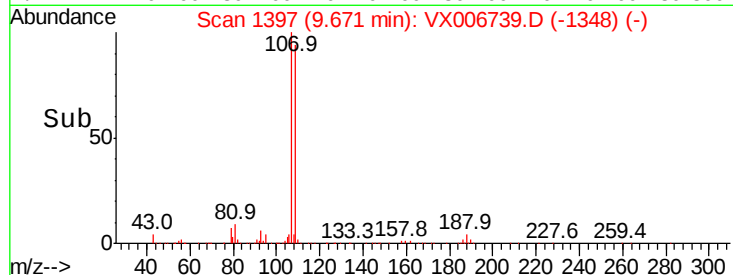
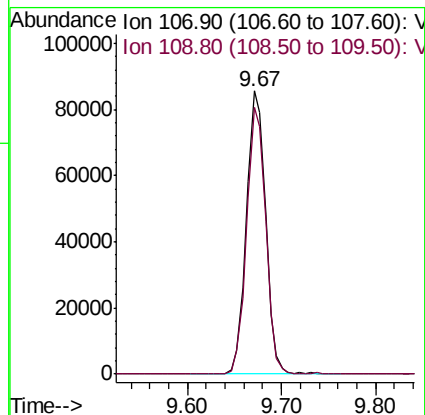
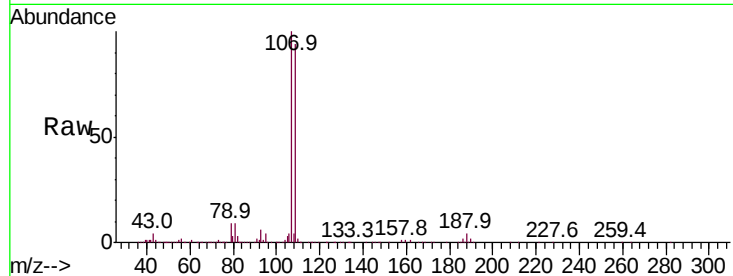
Ion Ratio Lower Upper

107 100

109 93.5 75.8 113.6

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#62

4-Bromofluorobenzene

Concen: 47.290 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

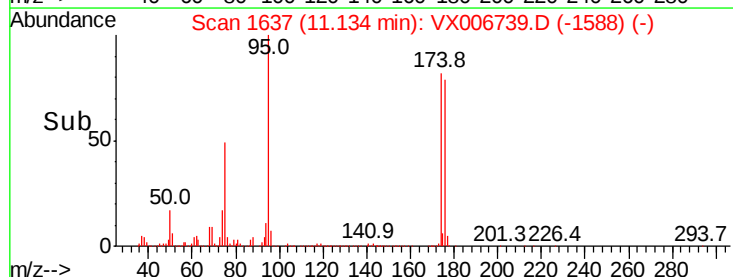
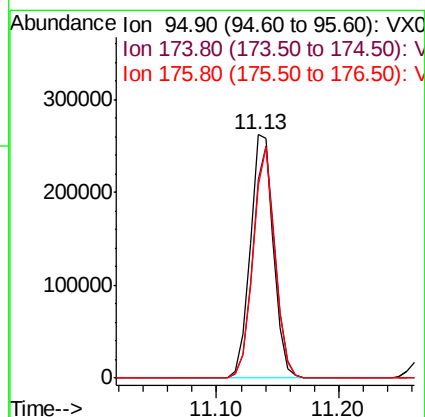
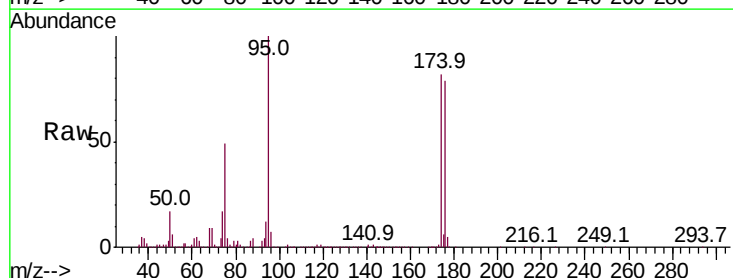
Tgt Ion: 95 Resp: 346002

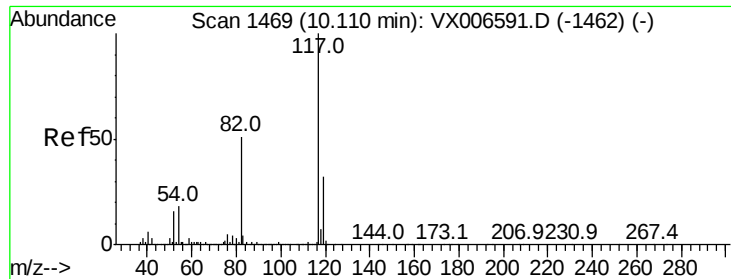
Ion Ratio Lower Upper

95 100

174 91.6 0.0 182.2

176 89.3 0.0 178.8





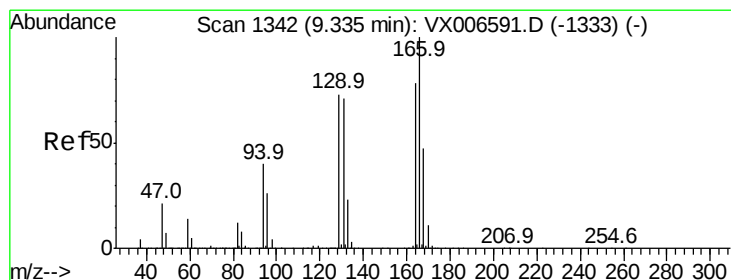
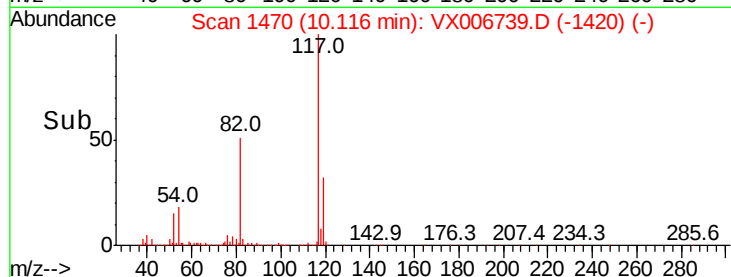
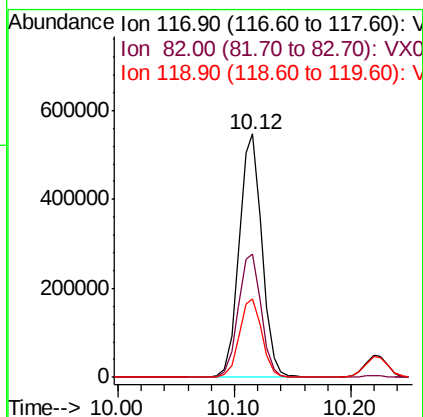
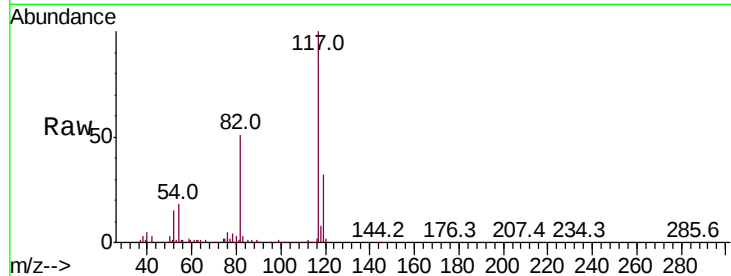
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.12 min Scan# 1470
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Resp	Lower	Upper
117	100	745878		
82	50.8		41.0	61.6
119	32.3		25.4	38.0

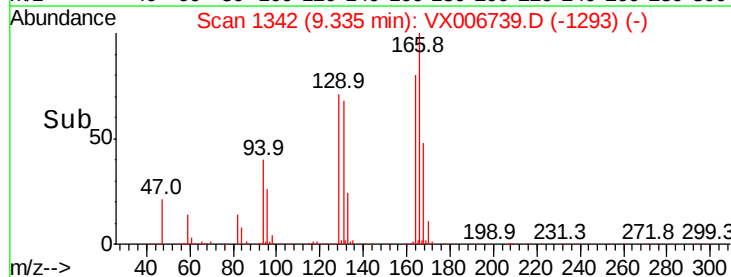
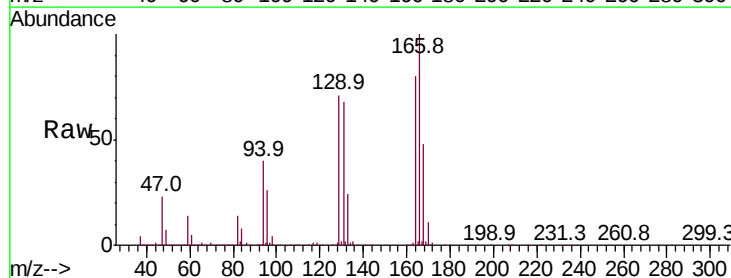
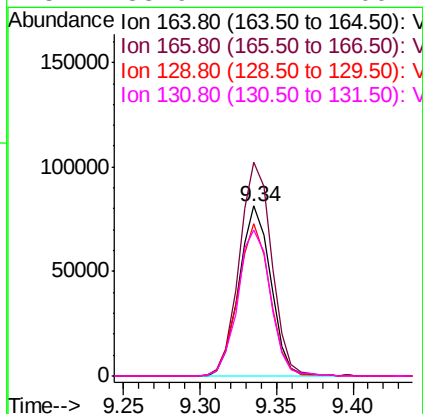
Manual Integrations
APPROVED

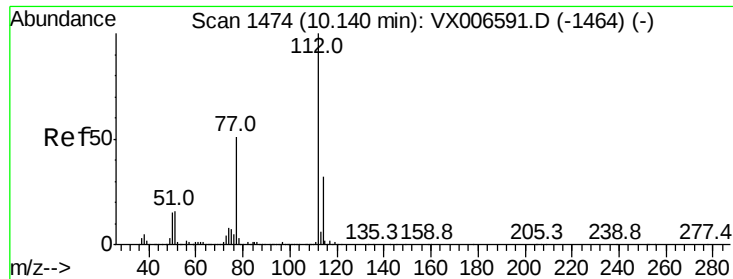
MMDadoda
12/22/2018 11:15:34 AM



#64
Tetrachloroethene
Concen: 19.897 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	117517		
166	125.7		102.5	153.7
129	89.5		75.1	112.7
131	85.9		72.7	109.1





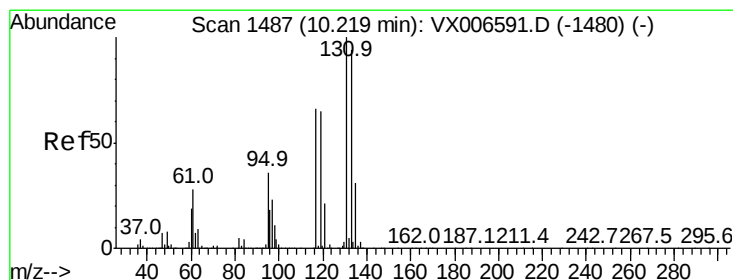
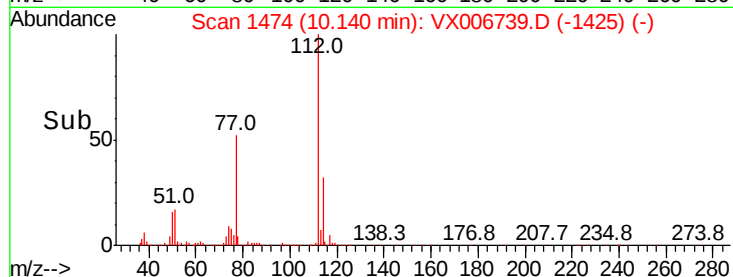
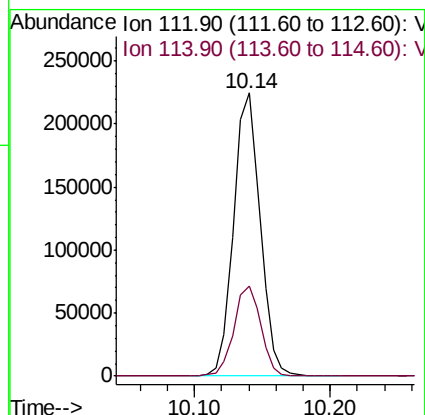
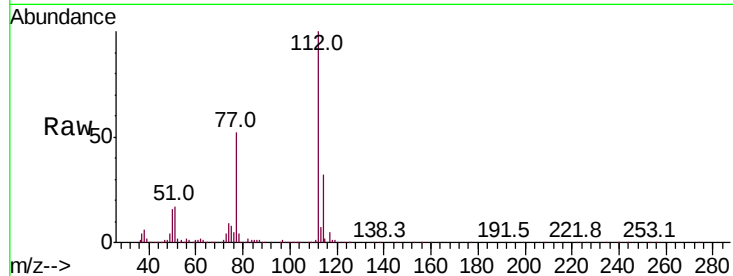
#65
Chlorobenzene
Concen: 19.421 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Lower	Upper
112	100		
114	31.7	25.7	38.5

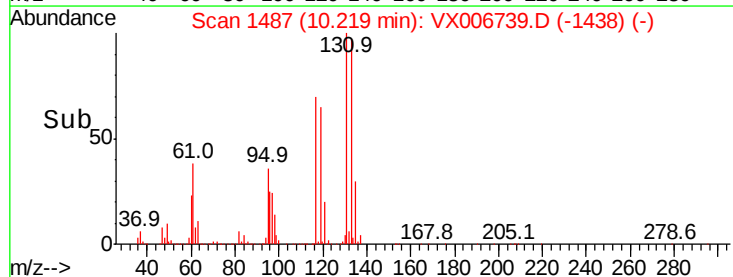
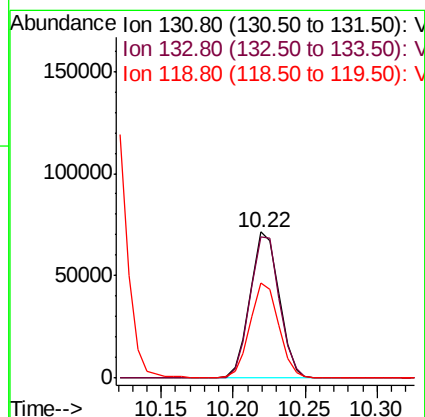
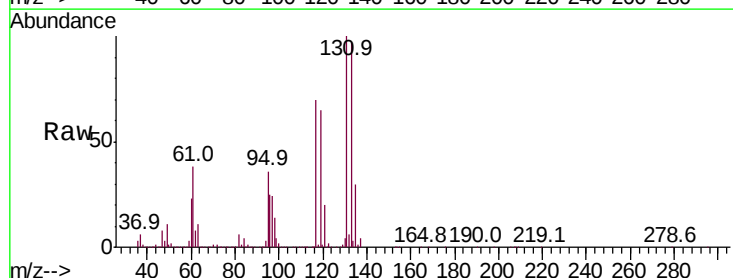
Manual Integrations
APPROVED

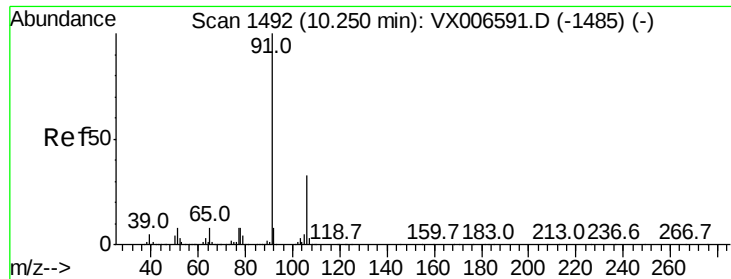
MMDadoda
12/22/2018 11:15:34 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.262 ug/l
RT: 10.22 min Scan# 1487
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.8	48.0	144.2
119	63.6	32.6	97.8





#67

Ethyl Benzene

Concen: 19.523 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 91 Resp: 503390

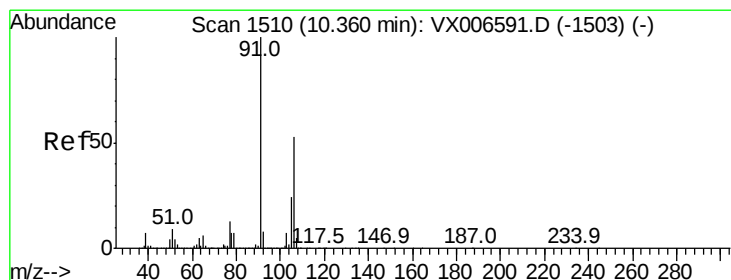
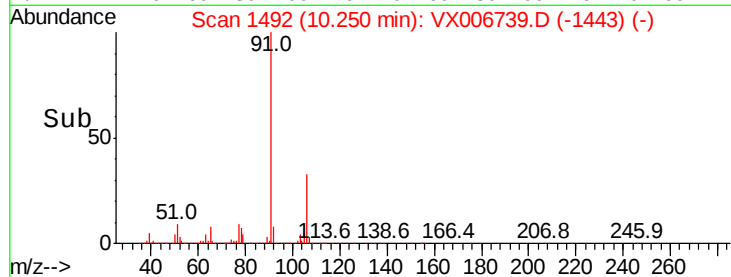
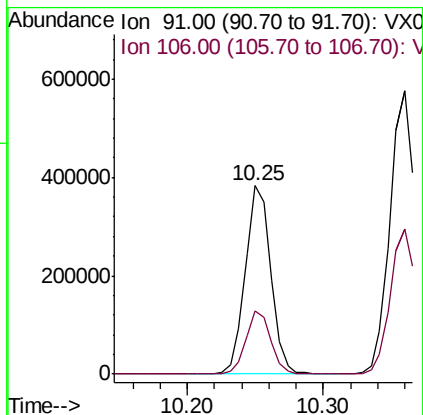
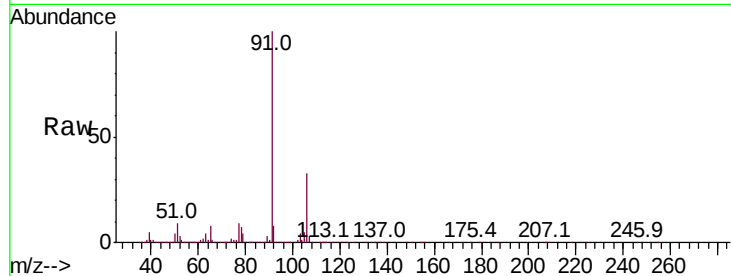
Ion Ratio Lower Upper

91 100

106 33.5 26.4 39.6

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#68

m/p-Xylenes

Concen: 38.886 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. -0.00 min

Lab File: VX006739.D

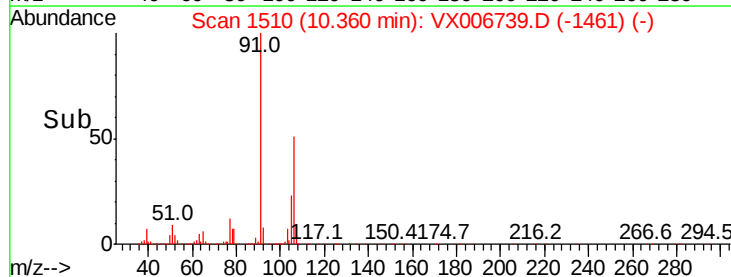
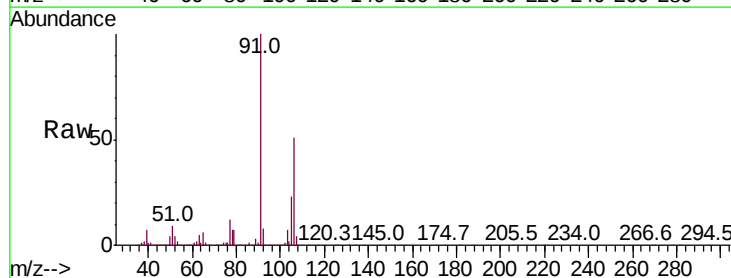
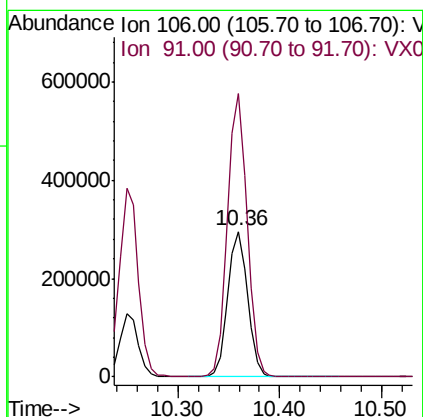
Acq: 21 Dec 2018 23:04

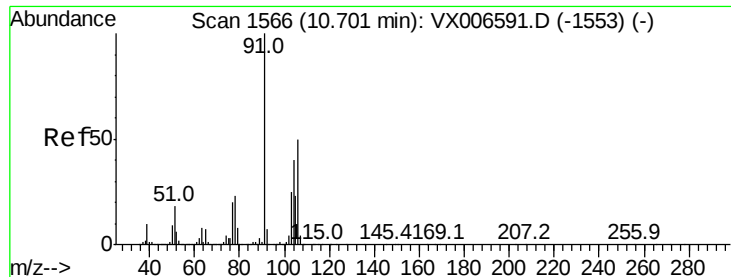
Tgt Ion: 106 Resp: 395655

Ion Ratio Lower Upper

106 100

91 193.3 155.8 233.6





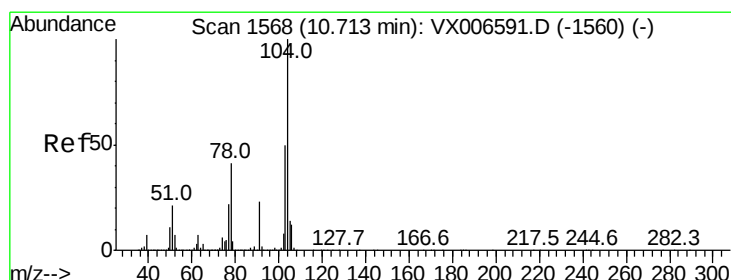
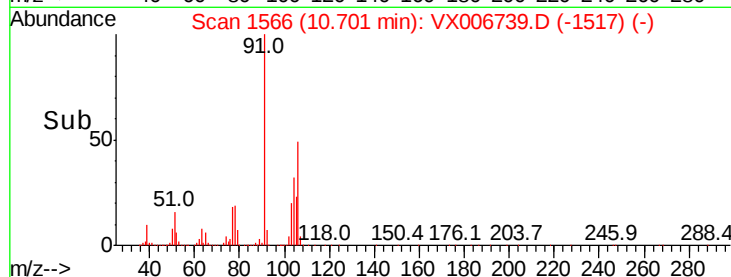
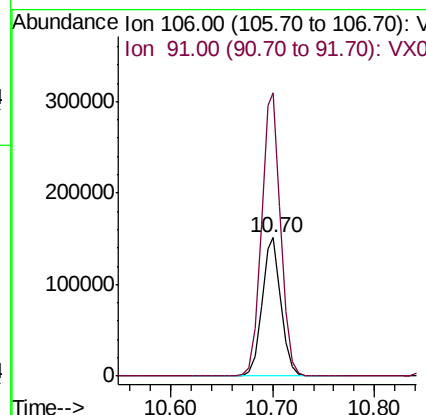
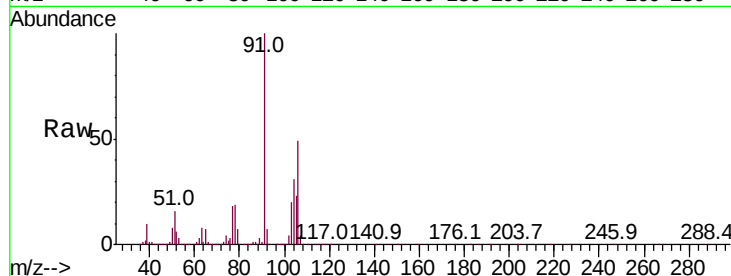
#69
o-Xylene
Concen: 19.523 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Lower	Upper
106	100		
91	207.3	101.3	303.7

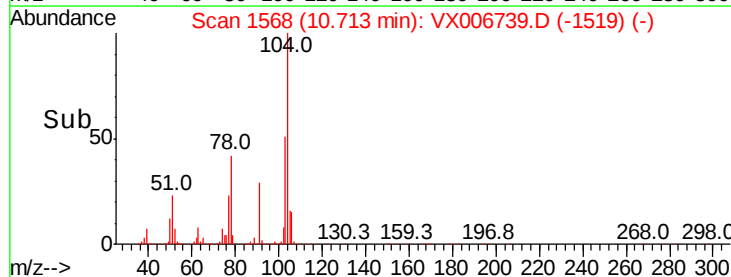
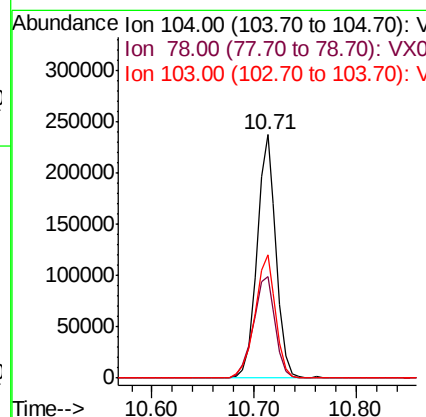
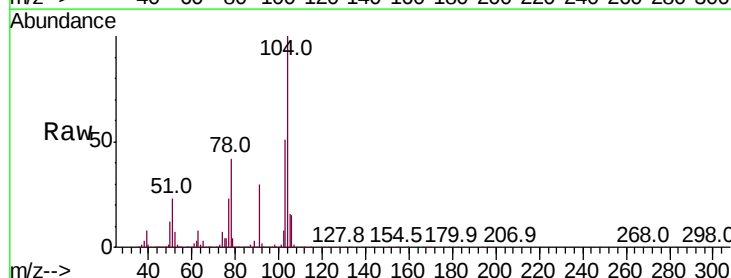
Manual Integrations
APPROVED

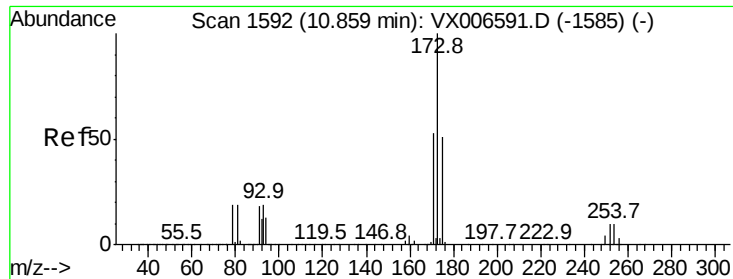
MMDadoda
12/22/2018 11:15:34 AM



#70
Styrene
Concen: 19.442 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
104	100		
78	48.0	37.7	56.5
103	54.9	43.8	65.8





#71

Bromoform

Concen: 18.590 ug/l

RT: 10.86 min Scan# 1592

Delta R.T. 0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion:173 Resp: 68892

Ion Ratio Lower Upper

173 100

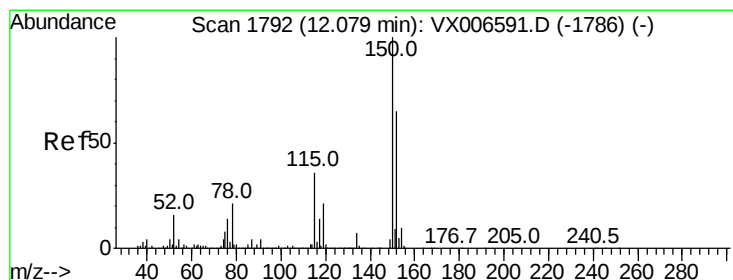
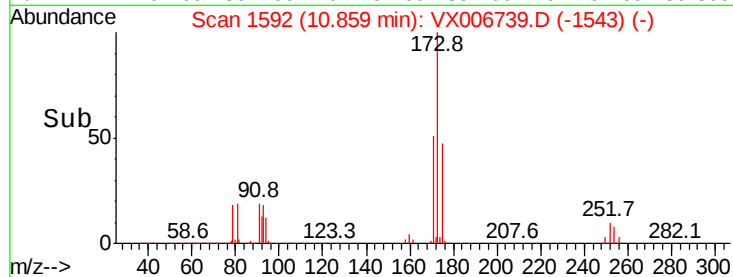
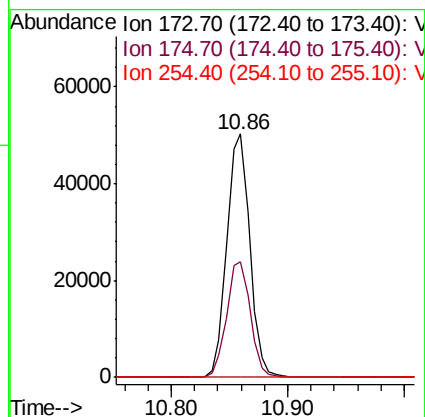
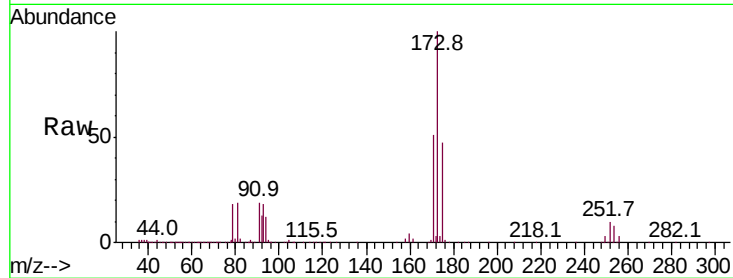
175 49.0 24.7 74.1

254 0.2 0.2 0.2

Manual Integrations
APPROVED

MMDadoda

12/22/2018 11:15:34 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

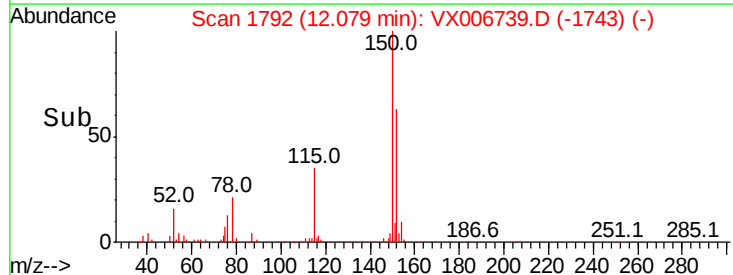
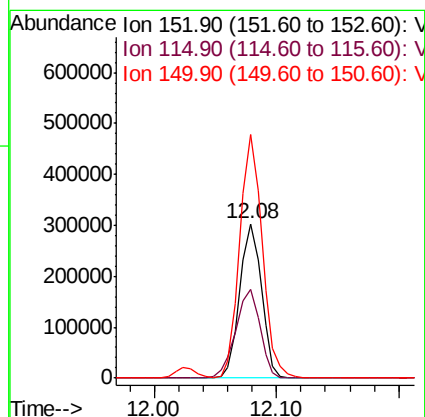
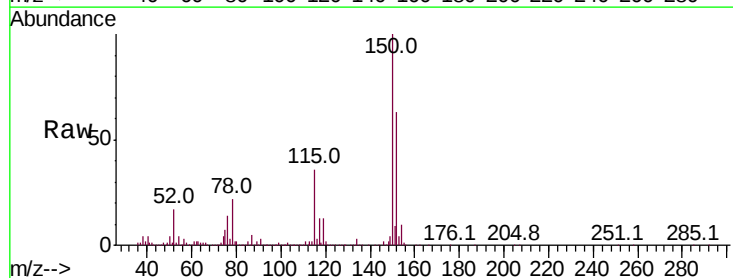
Tgt Ion:152 Resp: 371927

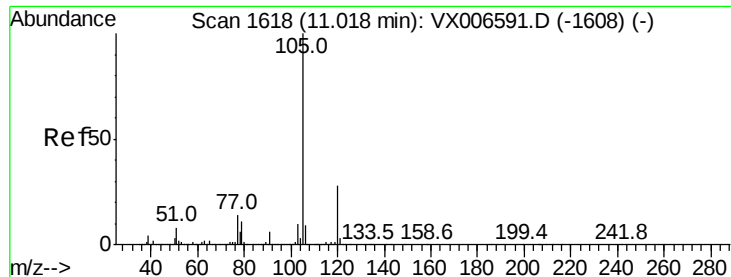
Ion Ratio Lower Upper

152 100

115 64.3 39.1 117.2

150 163.2 0.0 344.8





#73

Isopropylbenzene

Concen: 20.463 ug/l

RT: 11.02 min Scan# 1618

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 105 Resp: 520678

Ion Ratio Lower Upper

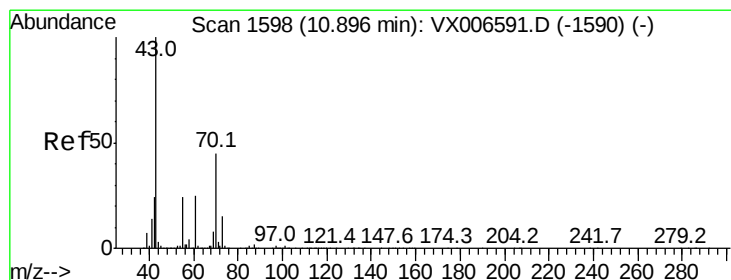
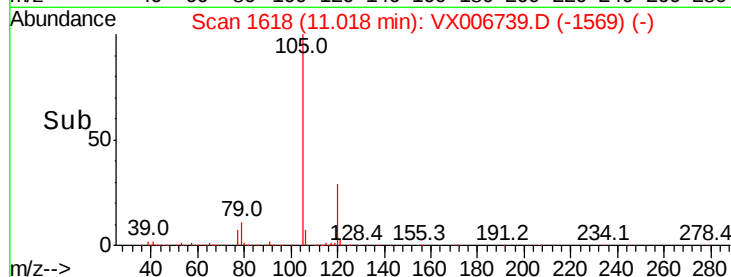
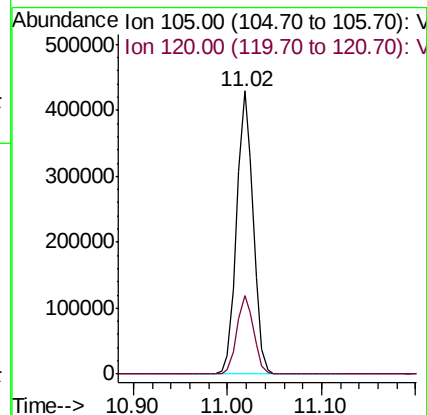
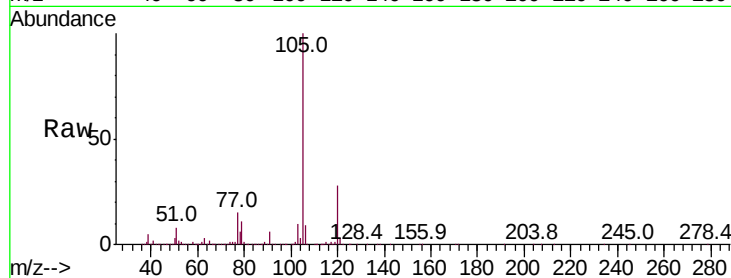
105 100

120 28.0 14.1 42.4

Manual Integrations
APPROVED

MMDadoda

12/22/2018 11:15:34 AM



#74

N-ethyl acetate

Concen: 21.793 ug/l

RT: 10.90 min Scan# 1598

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Tgt Ion: 43 Resp: 198484

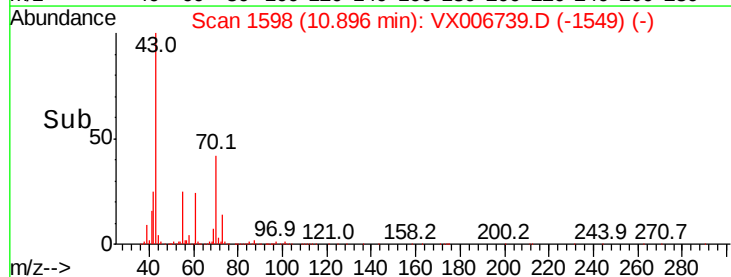
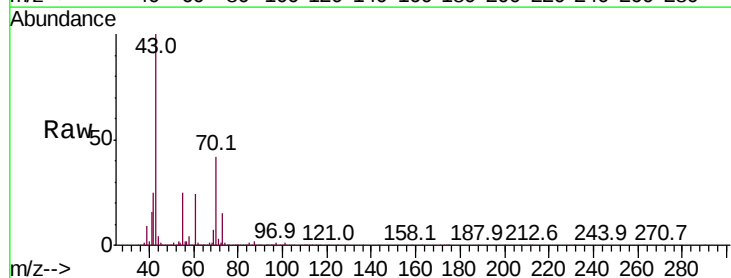
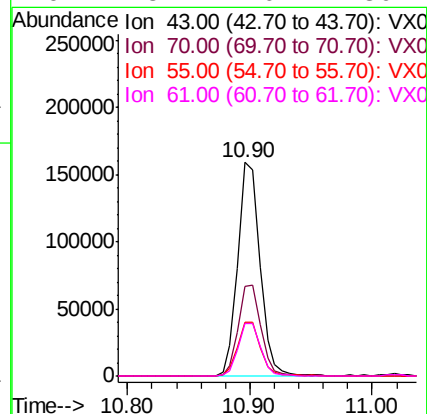
Ion Ratio Lower Upper

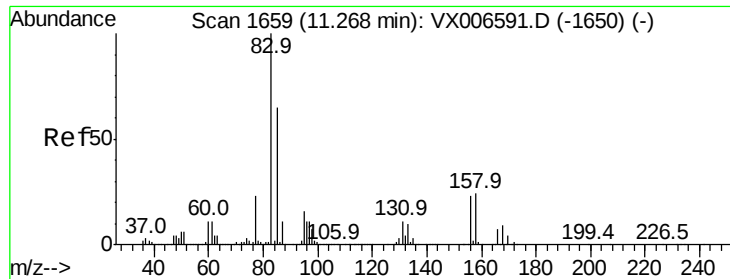
43 100

70 43.7 35.8 53.8

55 26.2 19.4 29.0

61 25.2 20.1 30.1





#75

1,1,2,2-Tetrachloroethane

Concen: 22.612 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

ClientSampleId :

VX1221WBS02

Tot Ion: 83 Resp: 171111

Ion Ratio Lower Upper

83 100

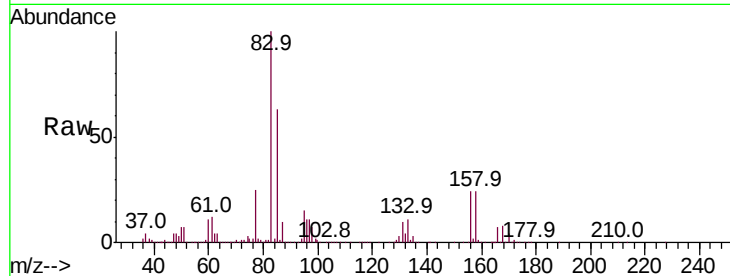
131 10.9 5.7 17.1

85 64.1 32.2 96.6

Manual Integrations
APPROVED

MMDadoda

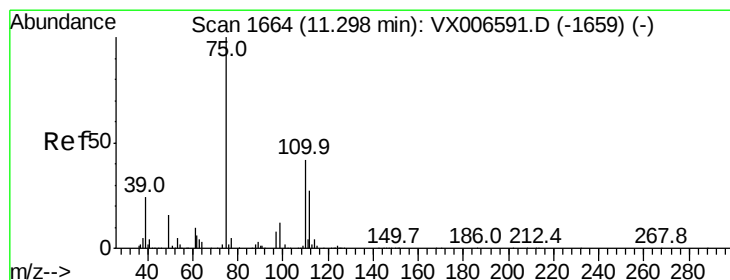
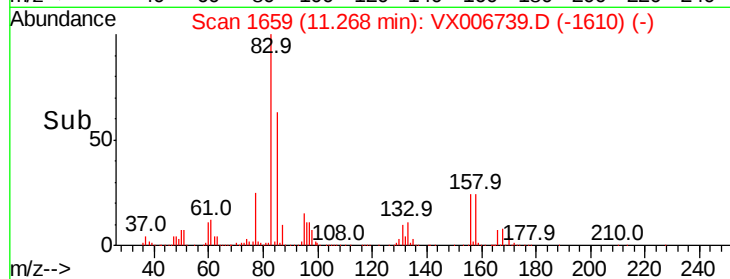
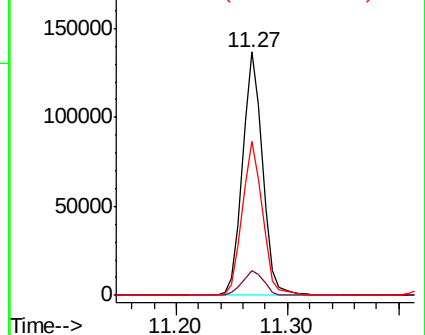
12/22/2018 11:15:34 AM



Abundance Ion 82.90 (82.60 to 83.60): VX0

Ion 130.80 (130.50 to 131.50): V

Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 21.363 ug/l m

RT: 11.30 min Scan# 1664

Delta R.T. -0.00 min

Lab File: VX006739.D

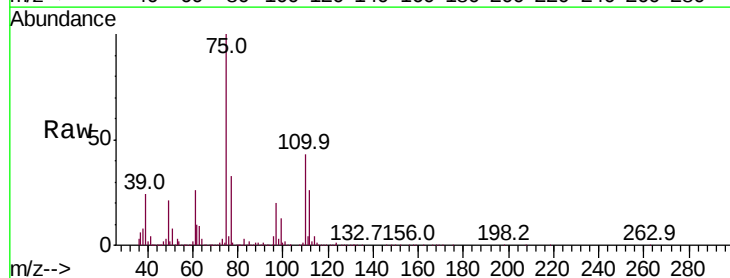
Acq: 21 Dec 2018 23:04

Tgt Ion: 75 Resp: 147663

Ion Ratio Lower Upper

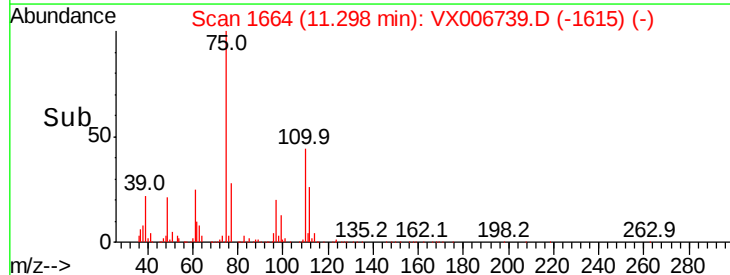
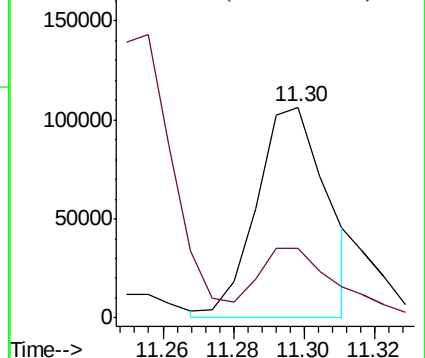
75 100

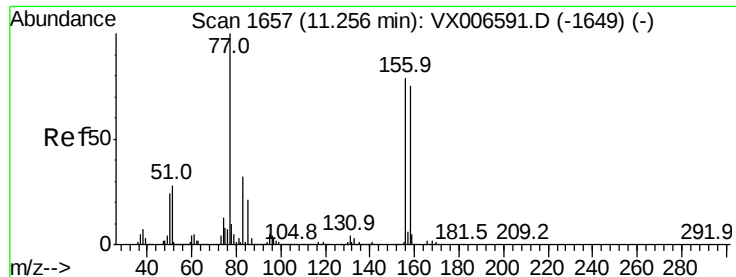
77 37.5 18.5 55.5



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 19.997 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

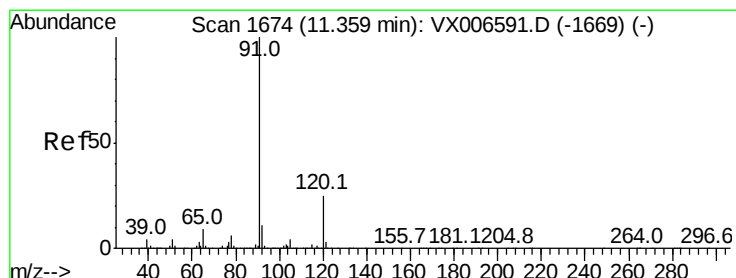
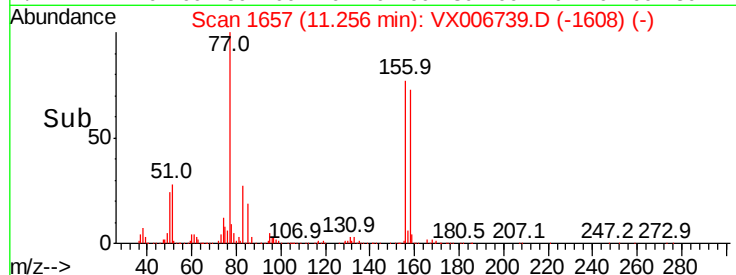
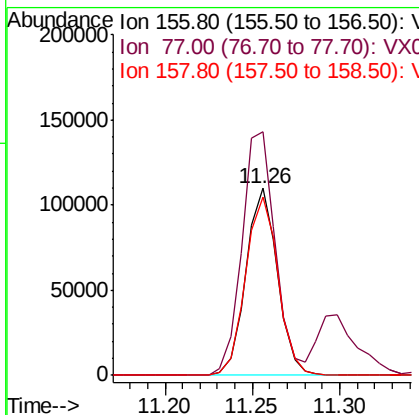
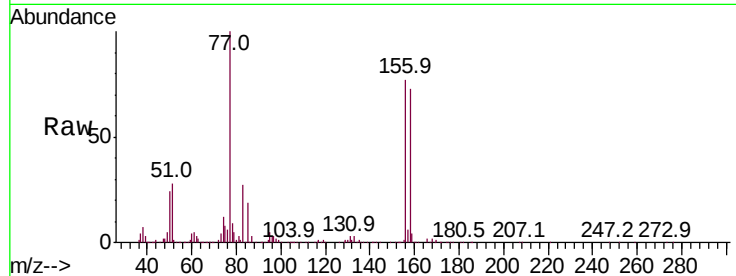
ClientSampleId :

VX1221WBS02

Tot Ion:	156	Resp:	137557
Ion Ratio	Lower	Upper	
156	100		
77	138.2	68.0	204.0
158	98.8	48.3	144.8

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#78

n-propylbenzene

Concen: 20.220 ug/l

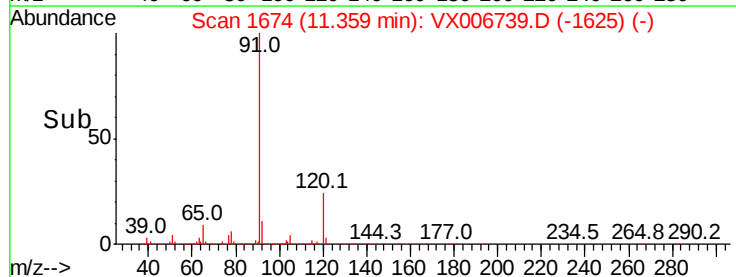
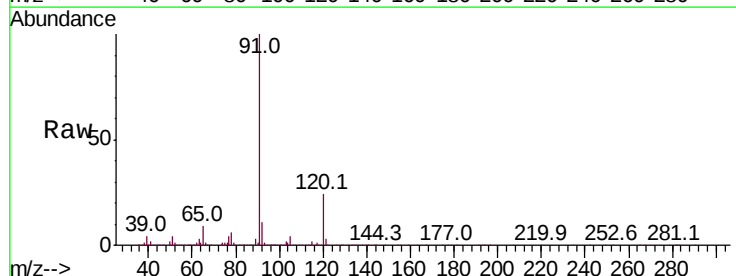
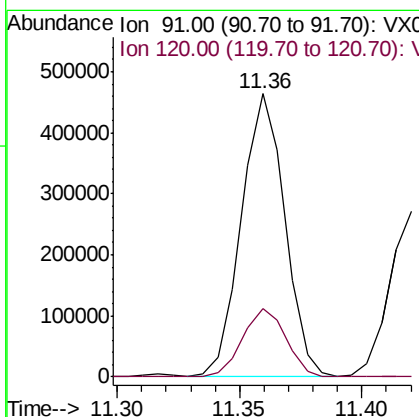
RT: 11.36 min Scan# 1674

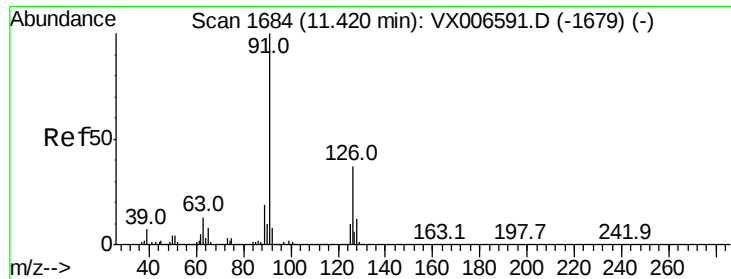
Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Tgt Ion:	91	Resp:	566540
Ion Ratio	Lower	Upper	
91	100		
120	24.6	12.7	38.0





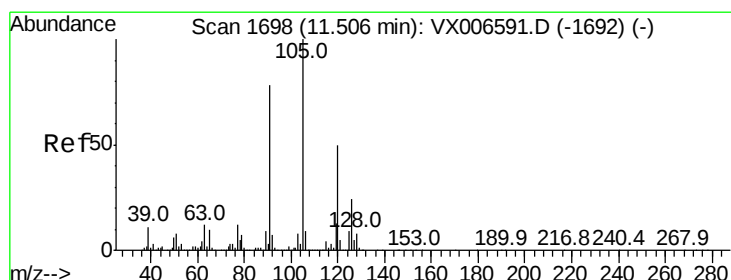
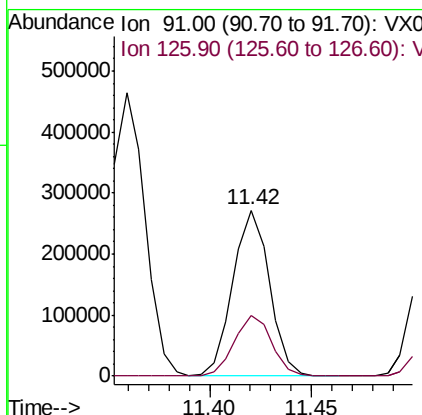
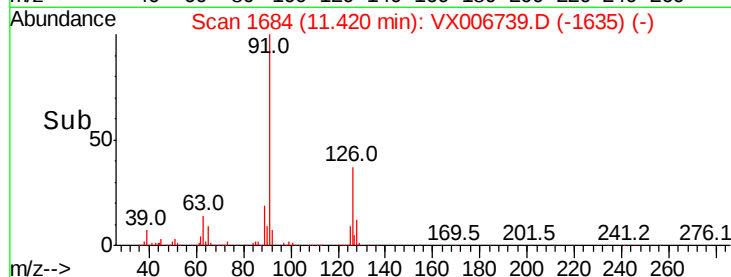
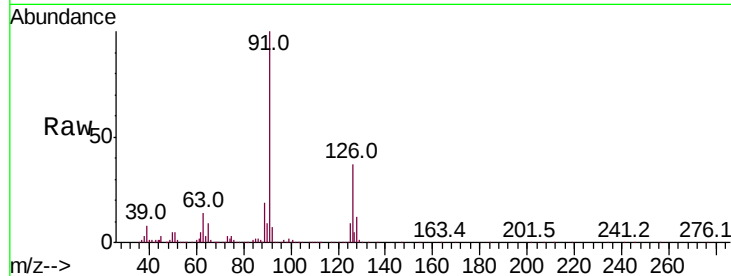
#79
 2-Chlorotoluene
 Concen: 19.805 ug/l
 RT: 11.42 min Scan# 1684
 Delta R.T. -0.00 min
 Lab File: VX006739.D
 Acq: 21 Dec 2018 23:04

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1221WBS02

Tot Ion: 91 Resp: 336291
 Ion Ratio Lower Upper
 91 100
 126 37.6 18.6 56.0

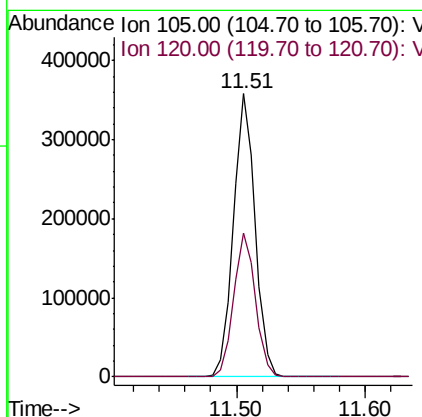
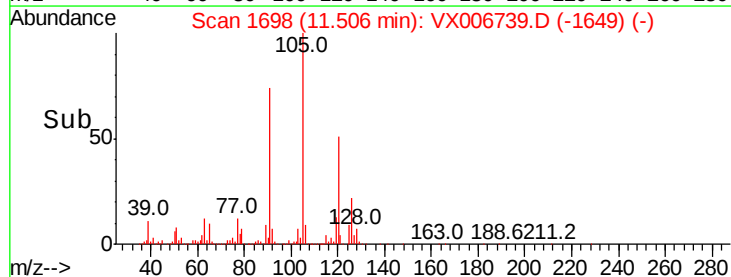
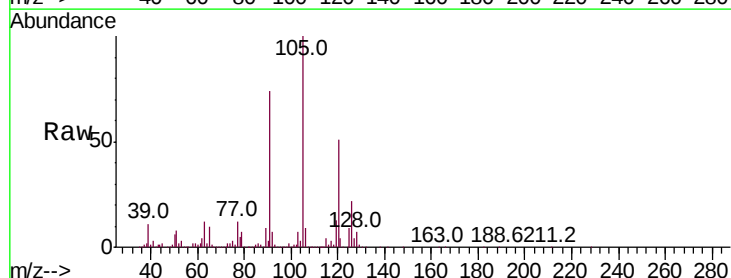
Manual Integrations
 APPROVED

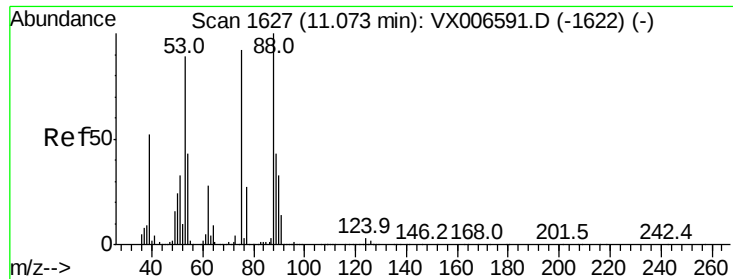
MMDadoda
 12/22/2018 11:15:34 AM



#80
 1,3,5-Trimethylbenzene
 Concen: 20.096 ug/l
 RT: 11.51 min Scan# 1698
 Delta R.T. -0.00 min
 Lab File: VX006739.D
 Acq: 21 Dec 2018 23:04

Tgt Ion: 105 Resp: 421155
 Ion Ratio Lower Upper
 105 100
 120 51.1 25.1 75.3





#81

trans-1,4-Dichloro-2-butene

Concen: 15.969 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

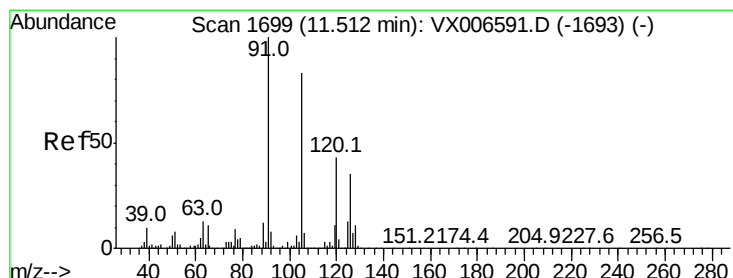
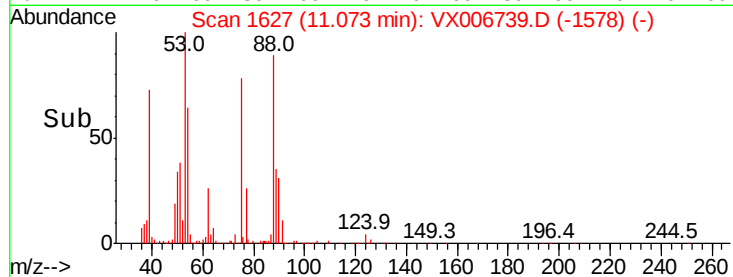
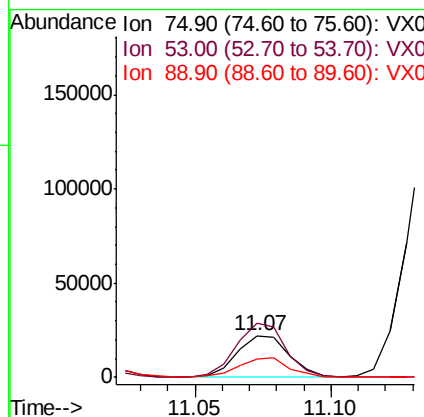
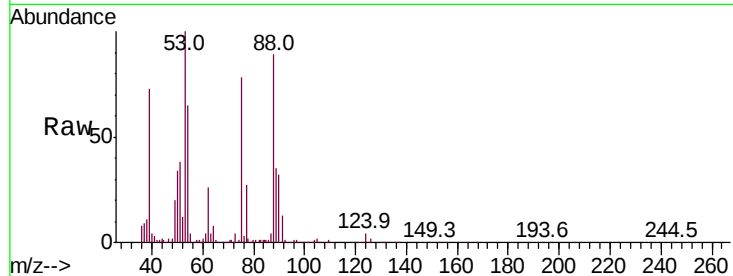
ClientSampleId :

VX1221WBS02

Tot Ion	Ratio	Lower	Upper
75	100		
53	126.2	79.7	119.5#
89	46.2	38.0	57.0

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#82

4-Chlorotoluene

Concen: 19.937 ug/l

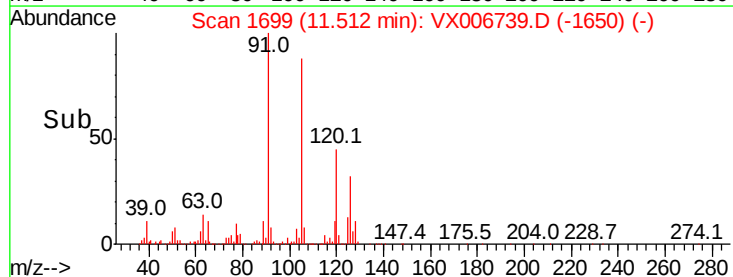
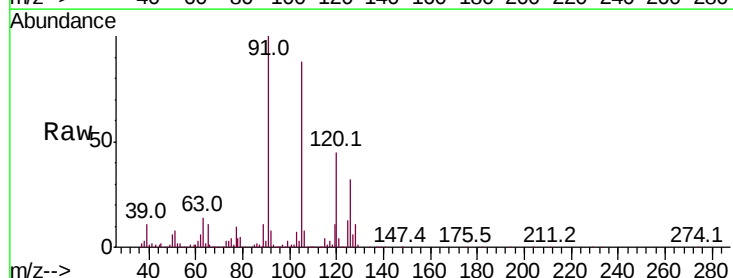
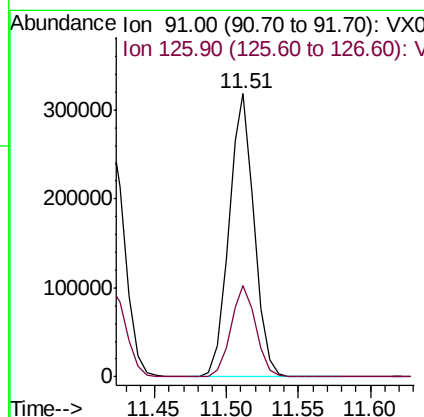
RT: 11.51 min Scan# 1699

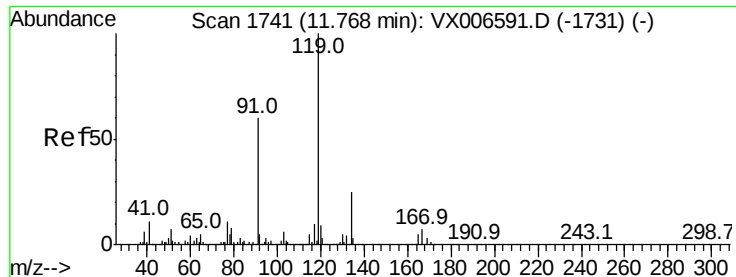
Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
91	100		
126	32.3	16.3	48.9





#83

tert-Butylbenzene

Concen: 20.364 ug/l

RT: 11.77 min Scan# 1741

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

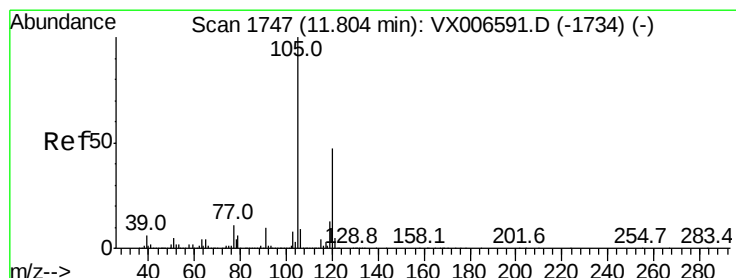
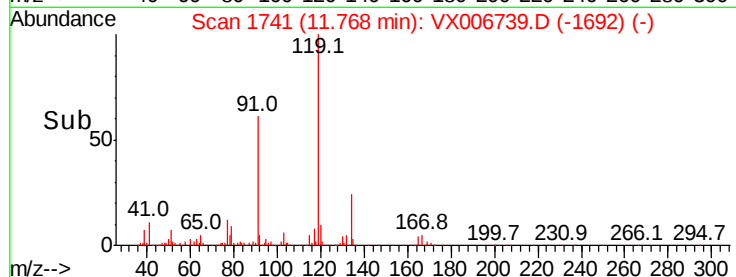
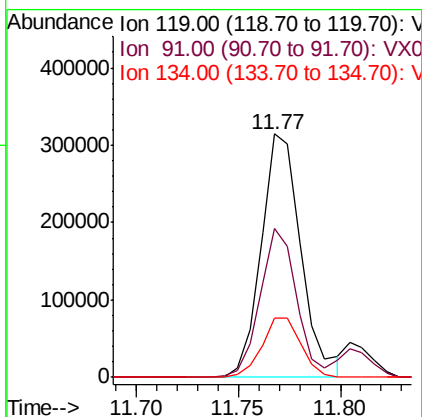
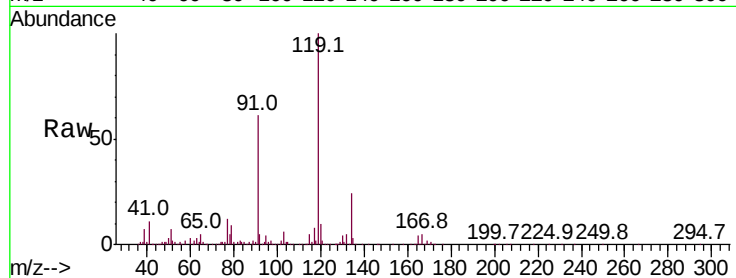
ClientSampleId :

VX1221WBS02

Tot Ion:	119	Resp:	427132
Ion Ratio	Lower	Upper	
119	100		
91	55.7	27.7	83.1
134	24.2	11.9	35.5

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#84

1,2,4-Trimethylbenzene

Concen: 19.909 ug/l

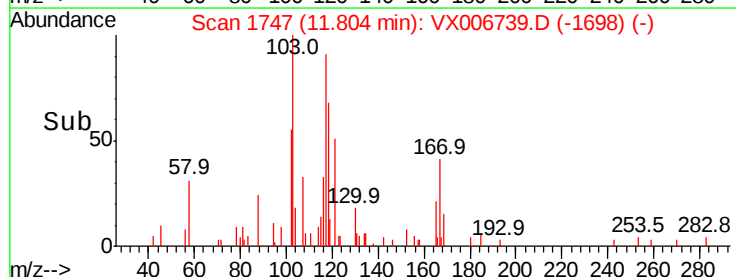
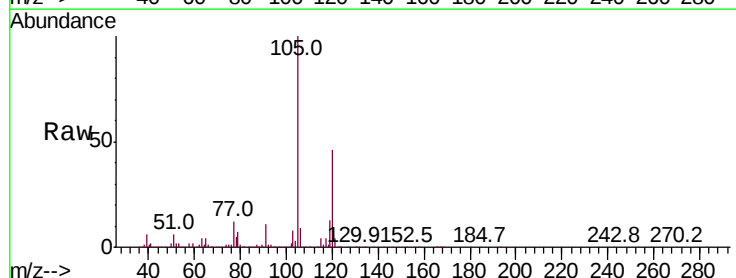
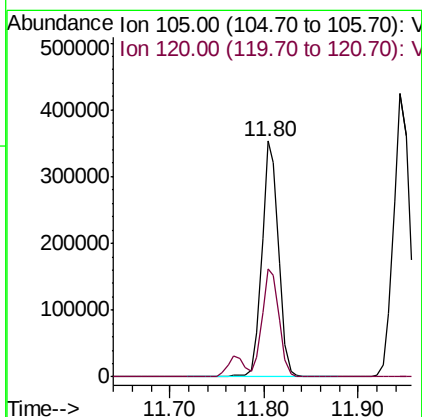
RT: 11.80 min Scan# 1747

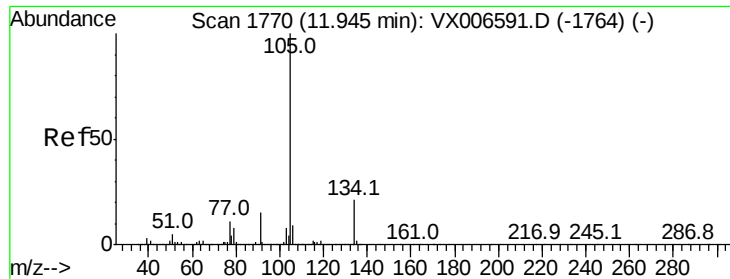
Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Tgt Ion:	105	Resp:	438876
Ion Ratio	Lower	Upper	
105	100		
120	46.5	23.2	69.6





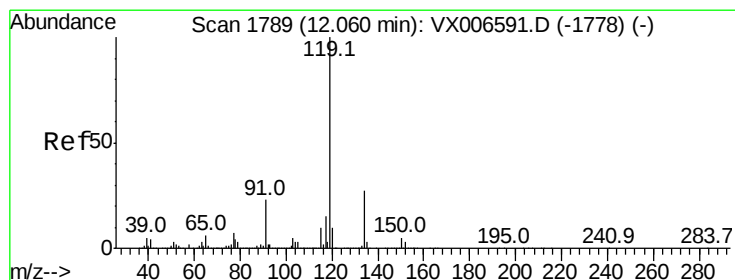
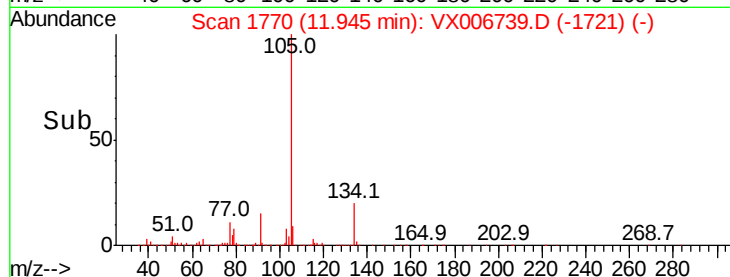
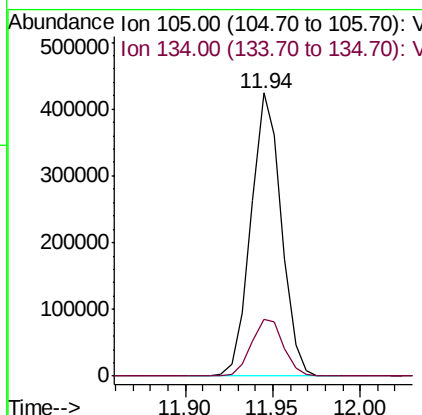
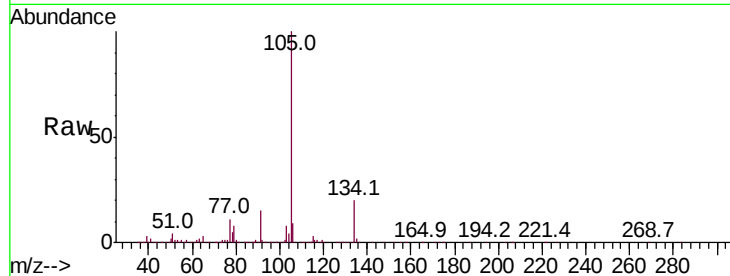
#85
 sec-Butylbenzene
 Concen: 19.843 ug/l
 RT: 11.94 min Scan# 1770
 Delta R.T. -0.00 min
 Lab File: VX006739.D
 Acq: 21 Dec 2018 23:04

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1221WBS02

Tot Ion	Ratio	Lower	Upper
105	100		
134	21.3	10.7	31.9

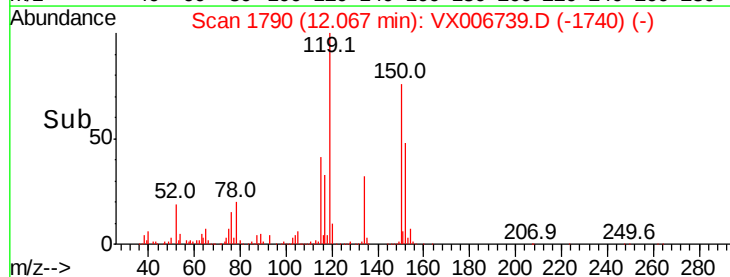
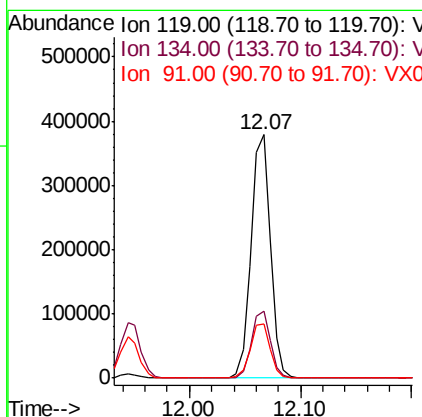
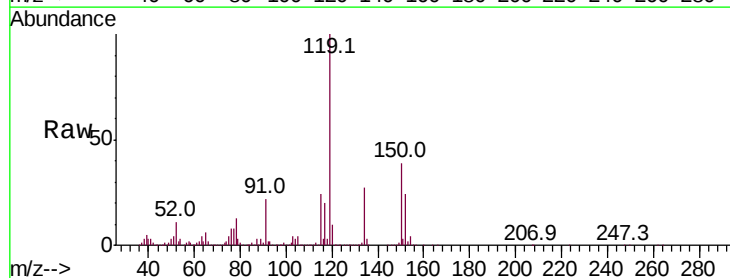
Manual Integrations
 APPROVED

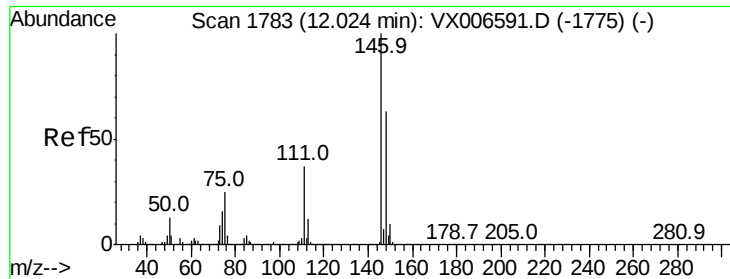
MMDadoda
 12/22/2018 11:15:34 AM



#86
 p-Isopropyltoluene
 Concen: 20.221 ug/l
 RT: 12.07 min Scan# 1790
 Delta R.T. 0.01 min
 Lab File: VX006739.D
 Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
119	100		
134	27.0	14.0	41.9
91	22.7	11.3	33.9





#87

1,3-Dichlorobenzene

Concen: 19.967 ug/l

RT: 12.02 min Scan# 1783

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

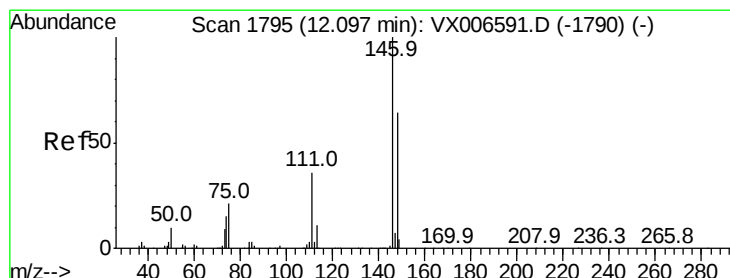
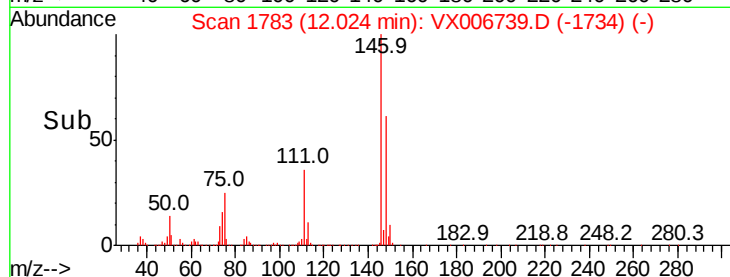
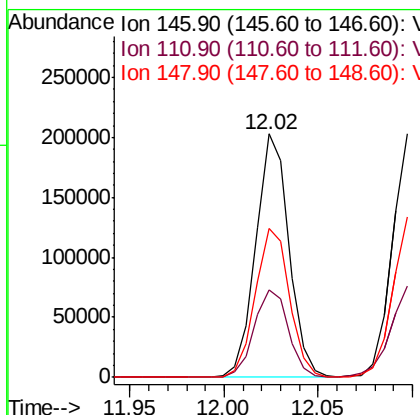
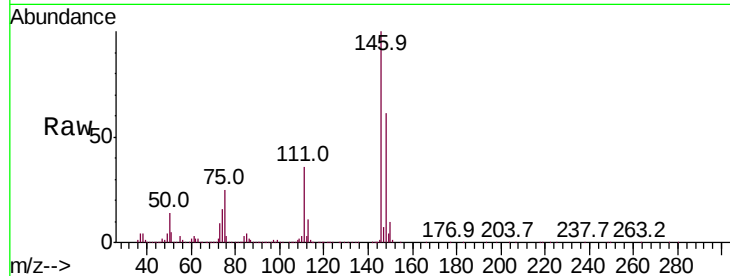
Instrument :
MSVOA_X

ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Resp	Lower	Upper
146	100	247545		
111	37.3	18.6	55.8	
148	63.1	31.8	95.3	

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#88

1,4-Dichlorobenzene

Concen: 19.151 ug/l

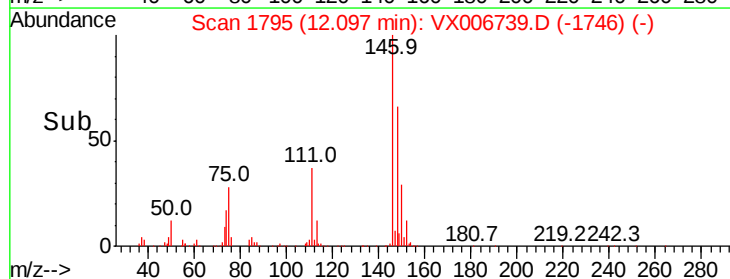
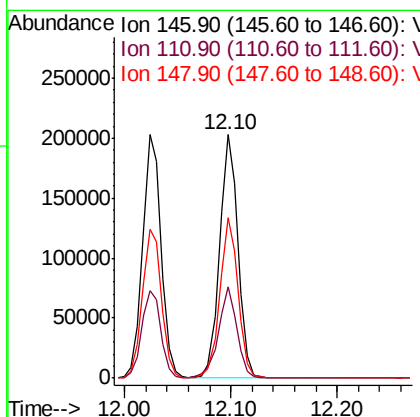
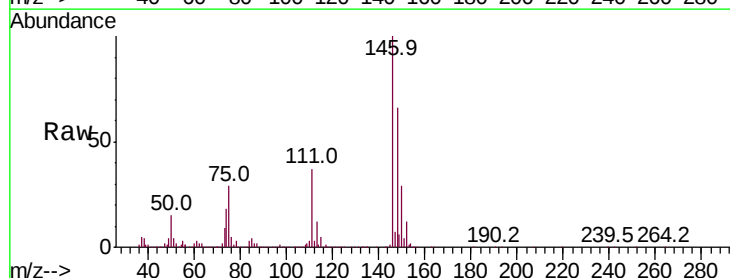
RT: 12.10 min Scan# 1795

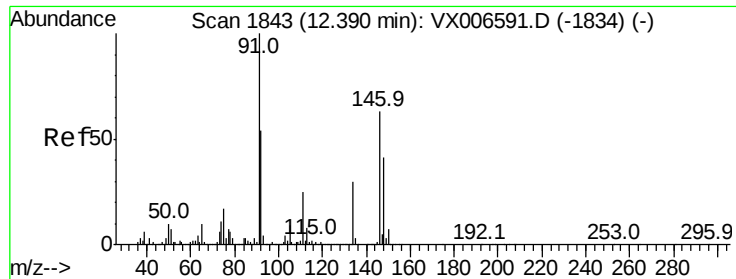
Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	243392		
111	37.7	18.1	54.1	
148	65.2	31.9	95.9	





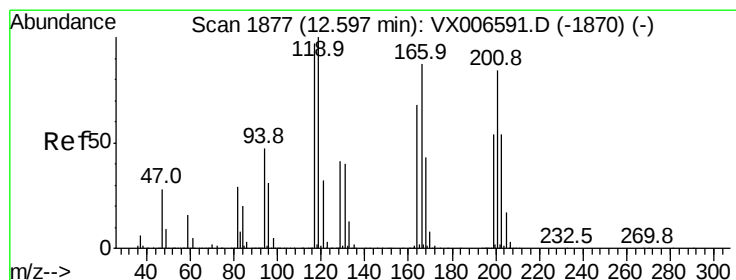
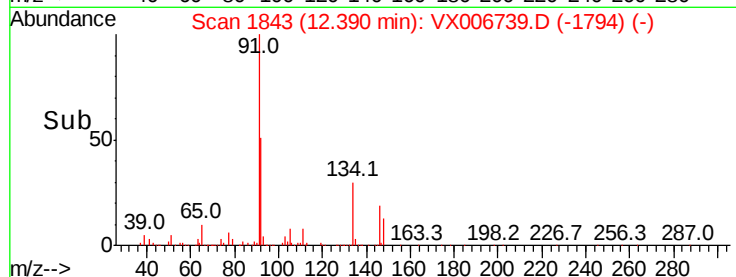
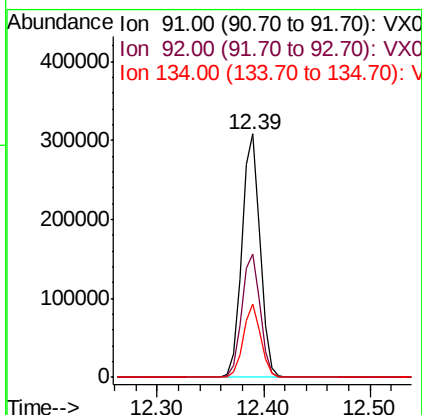
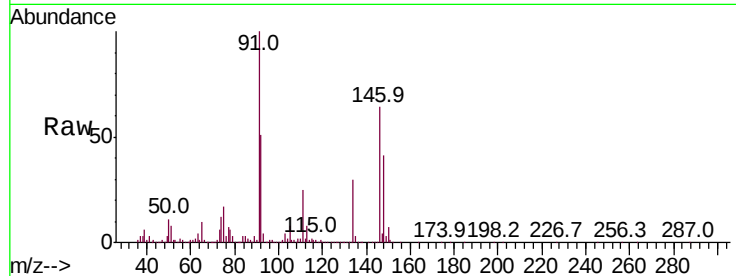
#89
n-Butylbenzene
Concen: 19.172 ug/l
RT: 12.39 min Scan# 1843
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.5	26.8	80.4
134	28.8	14.4	43.2

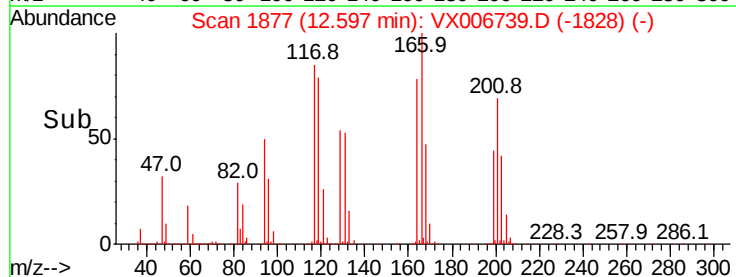
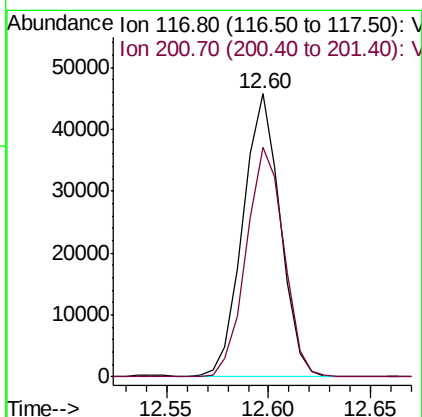
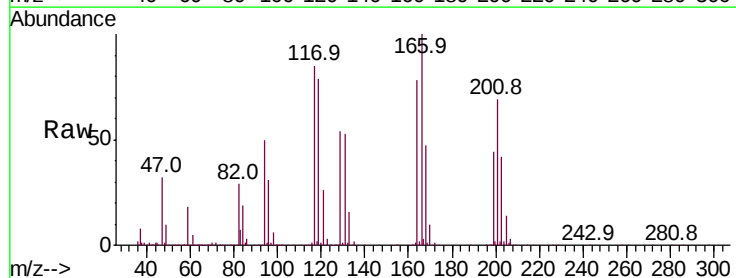
Manual Integrations
APPROVED

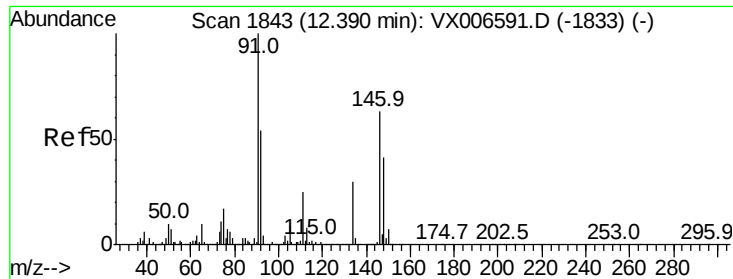
MMDadoda
12/22/2018 11:15:34 AM



#90
Hexachloroethane
Concen: 18.631 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
117	100		
201	82.2	42.9	128.7





#91

1,2-Dichlorobenzene

Concen: 19.732 ug/l

RT: 12.39 min Scan# 1843

Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Instrument :

MSVOA_X

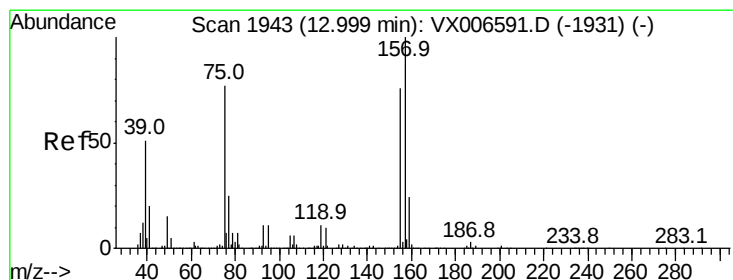
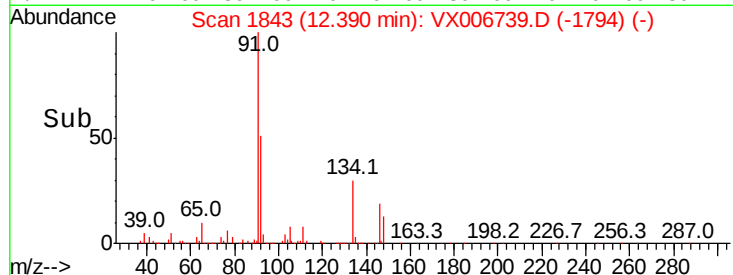
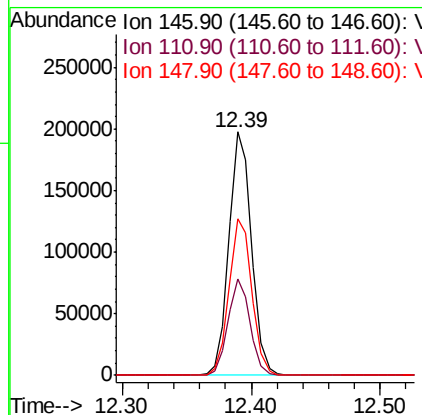
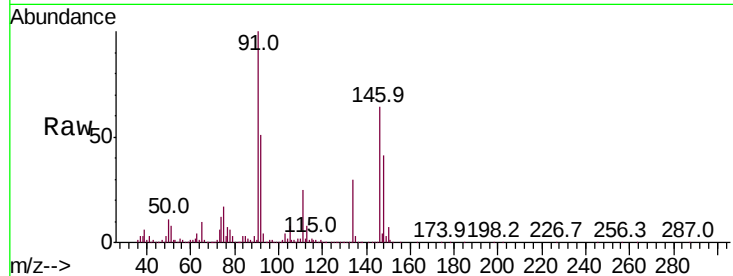
ClientSampleId :

VX1221WBS02

Tot Ion:	146	Resp:	244712
Ion Ratio	Lower	Upper	
146	100		
111	38.7	19.4	58.2
148	65.4	32.3	96.9

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#92

1,2-Dibromo-3-Chloropropane

Concen: 20.462 ug/l

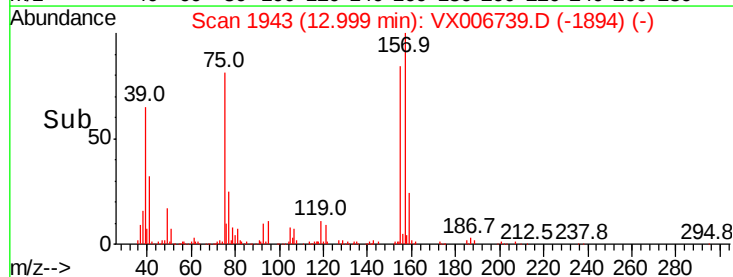
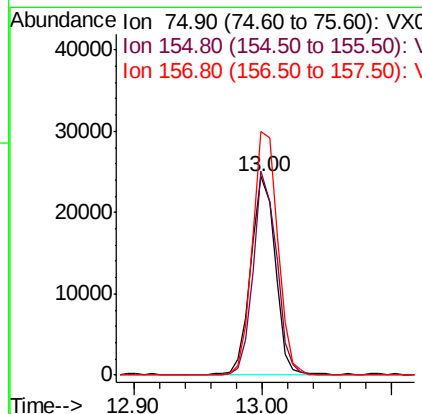
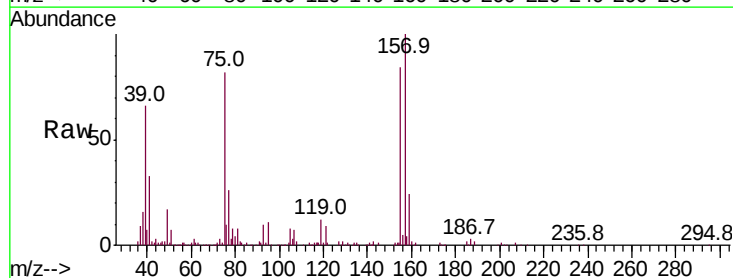
RT: 13.00 min Scan# 1943

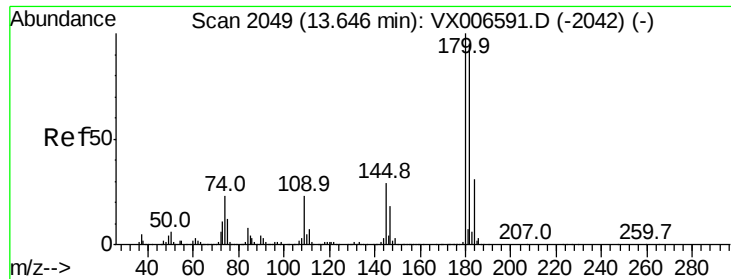
Delta R.T. -0.00 min

Lab File: VX006739.D

Acq: 21 Dec 2018 23:04

Tgt Ion:	75	Resp:	32038
Ion Ratio	Lower	Upper	
75	100		
155	96.7	50.6	151.8
157	125.1	64.6	193.8





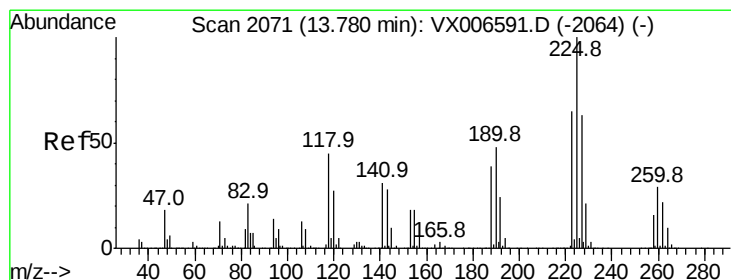
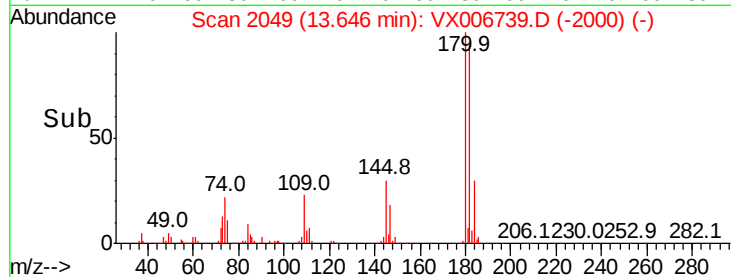
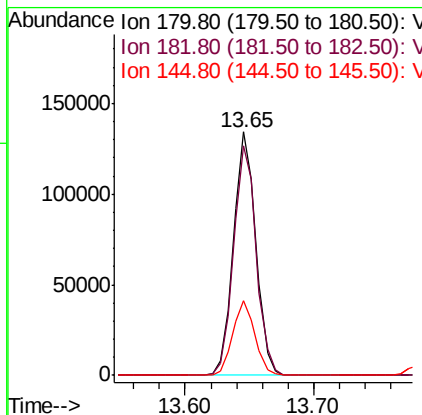
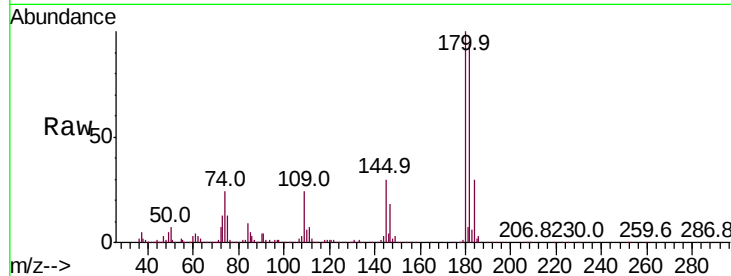
#93
 1,2,4-Trichlorobenzene
 Concen: 19.033 ug/l
 RT: 13.65 min Scan# 2049
 Delta R.T. -0.00 min
 Lab File: VX006739.D
 Acq: 21 Dec 2018 23:04

Instrument :
 MSVOA_X
 ClientSampleId :
 VX1221WBS02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	162823		
182	95.5	47.3	142.0	
145	30.5	14.8	44.3	

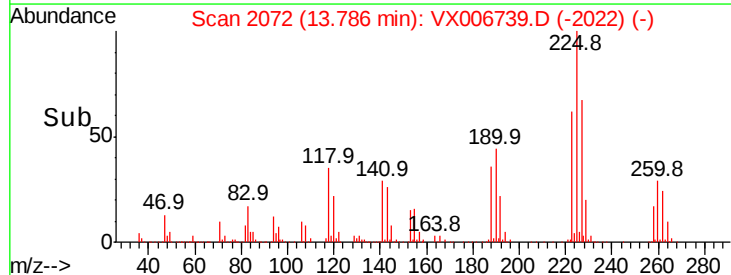
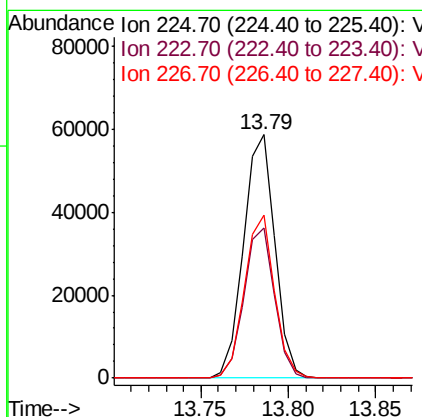
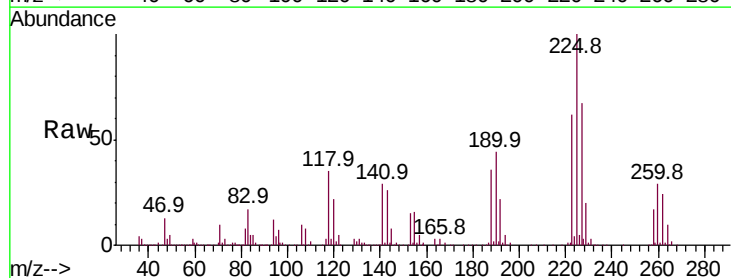
Manual Integrations
 APPROVED

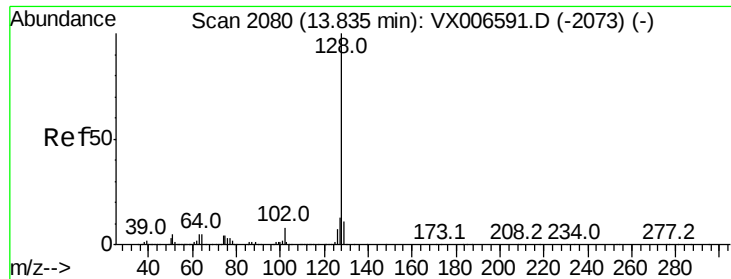
MMDadoda
 12/22/2018 11:15:34 AM



#94
 Hexachlorobutadiene
 Concen: 18.148 ug/l
 RT: 13.79 min Scan# 2072
 Delta R.T. 0.01 min
 Lab File: VX006739.D
 Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	73177		
223	60.0	32.1	96.3	
227	64.1	32.3	96.8	





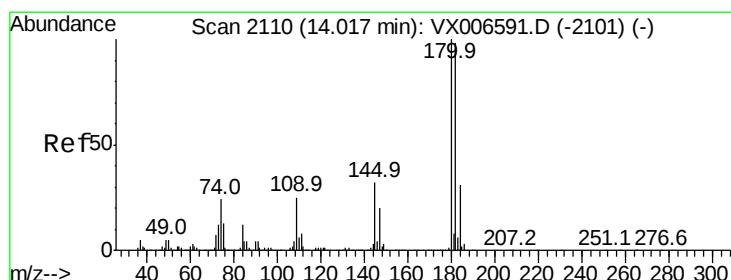
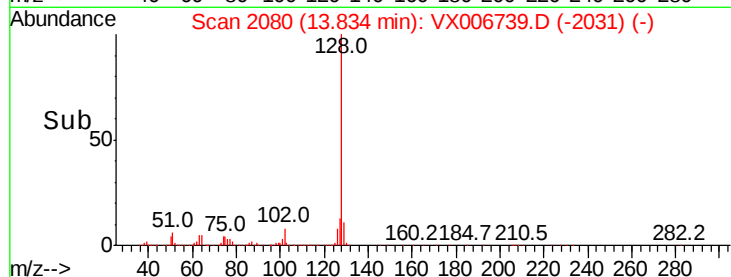
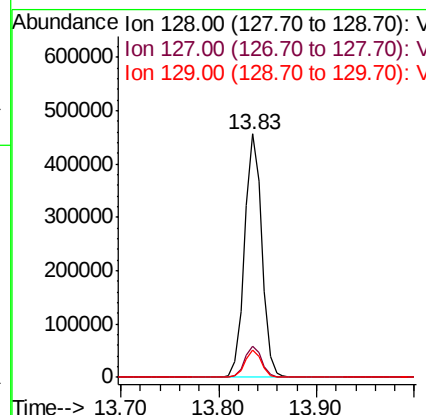
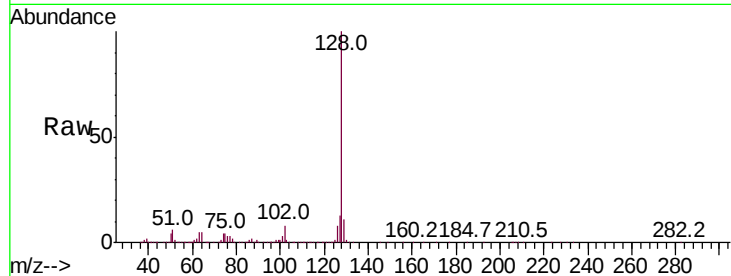
#95
Naphthalene
Concen: 20.325 ug/l
RT: 13.83 min Scan# 2080
Delta R.T. -0.00 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Instrument :
MSVOA_X
ClientSampleId :
VX1221WBS02

Tot Ion	Ratio	Lower	Upper
128	100		
127	12.9	10.1	15.1
129	10.9	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
12/22/2018 11:15:34 AM



#96
1,2,3-Trichlorobenzene
Concen: 19.240 ug/l
RT: 14.02 min Scan# 2111
Delta R.T. 0.01 min
Lab File: VX006739.D
Acq: 21 Dec 2018 23:04

Tgt Ion	Ratio	Lower	Upper
180	100		
182	94.5	48.5	145.5
145	31.9	16.0	47.9

