

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032319\
 Data File : VX008348.D
 Acq On : 23 Mar 2019 13:56
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 11:16:42 AM

Quant Time: Mar 23 15:02:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 14:52:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.67	168	206661	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	362255	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.11	117	316727	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	142025	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	63655	20.45	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.90%	
35) Dibromofluoromethane	5.50	113	46624	19.23	ug/l	0.00
Spiked Amount	50.000		Recovery	=	38.46%	
50) Toluene-d8	8.71	98	181612	19.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	39.50%	
62) 4-Bromofluorobenzene	11.13	95	64157	20.27	ug/l	0.00
Spiked Amount	50.000		Recovery	=	40.54%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	46930	18.730	ug/l	100
3) Chloromethane	1.32	50	68828	21.892	ug/l	99
4) Vinyl Chloride	1.40	62	68464	21.841	ug/l	100
5) Bromomethane	1.64	94	41529	15.553	ug/l	97
6) Chloroethane	1.72	64	39016	19.851	ug/l	100
7) Trichlorofluoromethane	1.93	101	76923	19.229	ug/l	100
8) Diethyl Ether	2.18	74	37132	18.041	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	2.38	101	45564	17.155	ug/l	89
10) Methyl Iodide	2.51	142	55704	16.471	ug/l	97
11) Tert butyl alcohol	3.04	59	70356	105.591	ug/l	99
12) 1,1-Dichloroethene	2.37	96	47015	18.750	ug/l	91
13) Acrolein	2.29	56	60151	118.440	ug/l	100
14) Allyl chloride	2.73	41	103517	18.964	ug/l	95
15) Acrylonitrile	3.14	53	183005	103.839	ug/l	99
16) Acetone	2.44	43	162750	92.194	ug/l	97
17) Carbon Disulfide	2.57	76	143101	17.697	ug/l	100
18) Methyl Acetate	2.77	43	79034	19.339	ug/l	97
19) Methyl tert-butyl Ether	3.20	73	171973	18.968	ug/l	97
20) Methylene Chloride	2.85	84	55998	19.023	ug/l	91
21) trans-1,2-Dichloroethene	3.17	96	50409	18.609	ug/l	94
22) Diisopropyl ether	3.85	45	207486	19.408	ug/l #	84
23) Vinyl Acetate	3.81	43	929824	101.447	ug/l	97
24) 1,1-Dichloroethane	3.70	63	104350	18.978	ug/l	98
25) 2-Butanone	4.67	43	265717	101.971	ug/l	97
26) 2,2-Dichloropropane	4.58	77	66403	16.031	ug/l	97
27) cis-1,2-Dichloroethene	4.60	96	58020	18.788	ug/l	89
28) Bromochloromethane	5.01	49	47272	19.146	ug/l #	78
29) Tetrahydrofuran	5.13	42	177637	109.048	ug/l	95
30) Chloroform	5.21	83	95063	18.483	ug/l	100
31) Cyclohexane	5.58	56	100840	19.530	ug/l	93
32) 1,1,1-Trichloroethane	5.49	97	73825	17.255	ug/l	96
36) 1,1-Dichloropropene	5.80	75	72361	17.157	ug/l	97
37) Ethyl Acetate	4.83	43	102038	20.466	ug/l	98
38) Carbon Tetrachloride	5.79	117	62036	16.508	ug/l	99

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX032319\
 Data File : VX008348.D
 Acq On : 23 Mar 2019 13:56
 Operator : JC/SP
 Sample : VSTDIC020
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 5 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Manual Integrations
 APPROVED

MMDadoda
 3/25/2019 11:16:42 AM

Quant Time: Mar 23 15:02:13 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X032319W.M
 Quant Title : SW846 8260
 QLast Update : Sat Mar 23 14:52:43 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	89029	17.541	ug/l	92
40) Benzene	6.14	78	223658	17.917	ug/l	99
41) Methacrylonitrile	5.04	41	54715	19.565	ug/l	97
42) 1,2-Dichloroethane	6.19	62	80301	17.560	ug/l	96
43) Isopropyl Acetate	6.45	43	155943	19.514	ug/l	97
44) Trichloroethene	7.21	130	50300	16.479	ug/l	88
45) 1,2-Dichloropropane	7.51	63	63957	18.302	ug/l	99
46) Dibromomethane	7.66	93	36825	17.405	ug/l #	84
47) Bromodichloromethane	7.90	83	71754	17.795	ug/l	99
48) Methyl methacrylate	7.77	41	78562	18.489	ug/l	94
49) 1,4-Dioxane	7.74	88	30486	406.570	ug/l	91
51) 4-Methyl-2-Pentanone	8.64	43	519264	100.508	ug/l	96
52) Toluene	8.79	92	130876	17.672	ug/l	97
53) t-1,3-Dichloropropene	9.04	75	76523	16.957	ug/l	99
54) cis-1,3-Dichloropropene	8.43	75	87707	17.526	ug/l	92
55) 1,1,2-Trichloroethane	9.21	97	54271	18.138	ug/l	95
56) Ethyl methacrylate	9.18	69	97648	20.401	ug/l	92
57) 1,3-Dichloropropane	9.37	76	97399	18.401	ug/l	99
58) 2-Chloroethyl Vinyl ether	8.31	63	264622	107.939	ug/l	92
59) 2-Hexanone	9.49	43	395010	99.311	ug/l	96
60) Dibromochloromethane	9.58	129	50151	17.440	ug/l	99
61) 1,2-Dibromoethane	9.67	107	56165	17.977	ug/l	99
64) Tetrachloroethene	9.34	164	40773	14.269	ug/l	95
65) Chlorobenzene	10.14	112	131222	16.838	ug/l	100
66) 1,1,1,2-Tetrachloroethane	10.22	131	46024	16.938	ug/l	98
67) Ethyl Benzene	10.25	91	248981	18.129	ug/l	96
68) m/p-Xylenes	10.36	106	178305	35.344	ug/l	92
69) o-Xylene	10.70	106	86621	17.670	ug/l	93
70) Styrene	10.71	104	149775	18.800	ug/l	96
71) Bromoform	10.85	173	34584	16.732	ug/l #	100
73) Isopropylbenzene	11.02	105	232561	18.370	ug/l	97
74) N-amyl acetate	10.90	43	136498	20.580	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.27	83	91116	20.072	ug/l	98
76) 1,2,3-Trichloropropane	11.29	75	76468m	19.143	ug/l	
77) Bromobenzene	11.26	156	53570	17.502	ug/l	79
78) n-propylbenzene	11.36	91	271853	18.489	ug/l	95
79) 2-Chlorotoluene	11.42	91	160791	18.220	ug/l	94
80) 1,3,5-Trimethylbenzene	11.51	105	194784	18.624	ug/l	96
81) trans-1,4-Dichloro-2-buten	11.07	75	25302	18.117	ug/l	85
82) 4-Chlorotoluene	11.51	91	183754	17.893	ug/l	94
83) tert-Butylbenzene	11.77	119	184887	18.516	ug/l	94
84) 1,2,4-Trimethylbenzene	11.80	105	196545	18.537	ug/l	95
85) sec-Butylbenzene	11.94	105	225351	18.224	ug/l	95
86) p-Isopropyltoluene	12.06	119	200151	18.699	ug/l	96
87) 1,3-Dichlorobenzene	12.02	146	93746	17.138	ug/l	97
88) 1,4-Dichlorobenzene	12.10	146	95317	16.846	ug/l	96
89) n-Butylbenzene	12.38	91	184485	18.364	ug/l	96
90) Hexachloroethane	12.60	117	31484	17.271	ug/l	79
91) 1,2-Dichlorobenzene	12.39	146	95126	17.247	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.00	75	19342	19.184	ug/l	75

Data Path : Z:\V0ASRV\HPCHEM1\MSVOA X\DATA\VX032319\
Data File : VX008348.D
Acq On : 23 Mar 2019 13:56
Operator : JC/SP
Sample : VSTDICC020
Misc : 5.0mL/MSVOA X/WATER
ALS Vial : 5 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC020

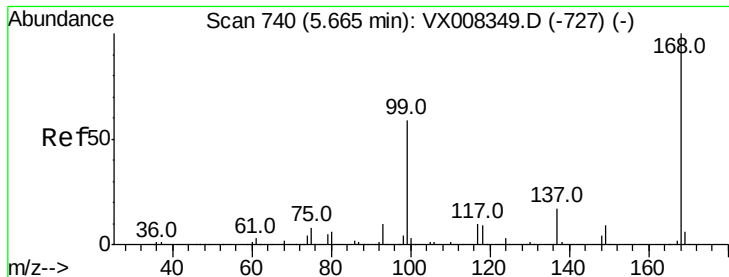
Manual Integrations
APPROVED

MMDadoda
3/25/2019 11:16:42 AM

Quant Time: Mar 23 15:02:13 2019
Quant Method : Z:\V0ASRV\HPCHEM1\MSVOA_X\METHOD\82X032319W.M
Quant Title : SW846 8260
QLast Update : Sat Mar 23 14:52:43 2019
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	61990	17.063	ug/l	98
94) Hexachlorobutadiene	13.78	225	30920	17.451	ug/l	99
95) Naphthalene	13.83	128	226714	19.772	ug/l	100
96) 1,2,3-Trichlorobenzene	14.02	180	64608	18.073	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. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:168 Resp: 206661

Ion Ratio Lower Upper

168 100

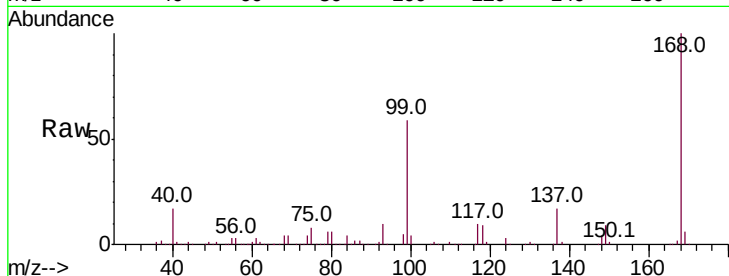
99 58.5 37.6 56.4#

Manual Integrations

APPROVED

MMDadoda

3/25/2019 11:16:42 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VX0

5.67

80000

60000

40000

20000

0

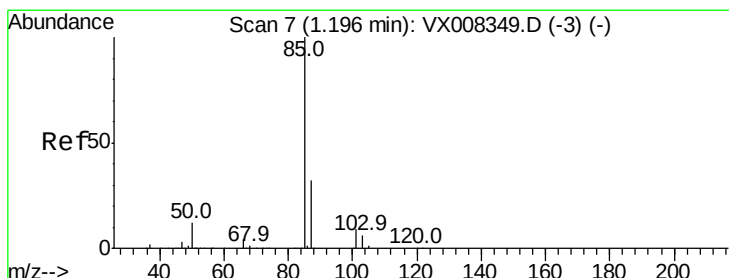
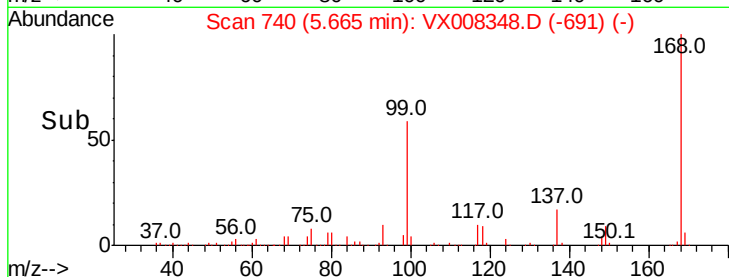
Time-->

5.50

5.60

5.70

5.80



#2

Dichlorodifluoromethane

Concen: 18.730 ug/l

RT: 1.20 min Scan# 7

Delta R.T. 0.00 min

Lab File: VX008348.D

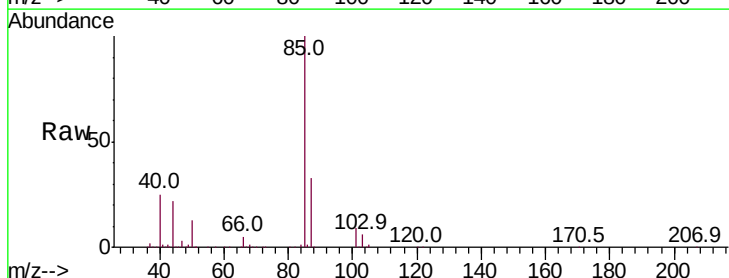
Acq: 23 Mar 2019 13:56

Tgt Ion: 85 Resp: 46930

Ion Ratio Lower Upper

85 100

87 32.6 16.4 49.1



Abundance Ion 84.90 (84.60 to 85.60): VX0

Ion 86.90 (86.60 to 87.60): VX0

1.20

50000

40000

30000

20000

10000

0

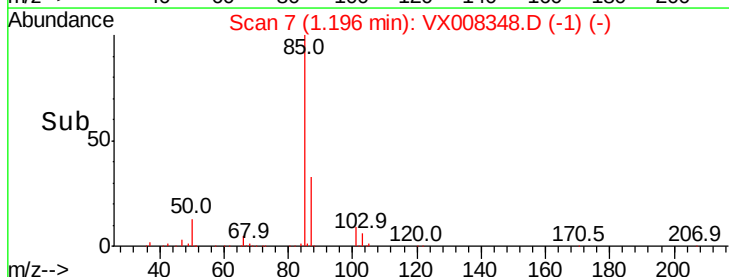
Time-->

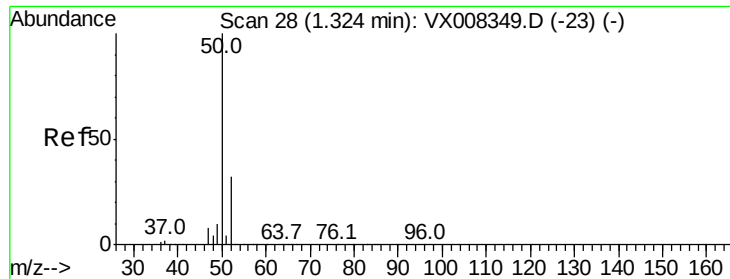
1.15

1.20

1.25

1.30





#3

Chloromethane

Concen: 21.892 ug/l

RT: 1.32 min Scan# 28

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 50 Resp: 68828

Ion Ratio Lower Upper

50 100

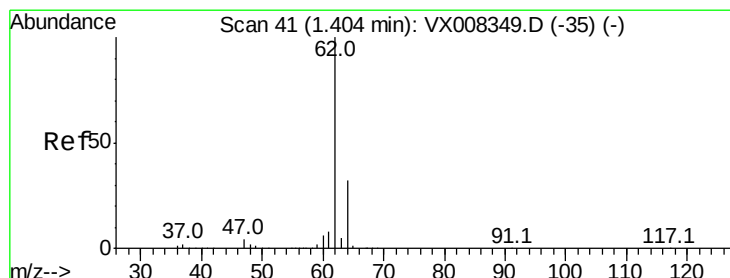
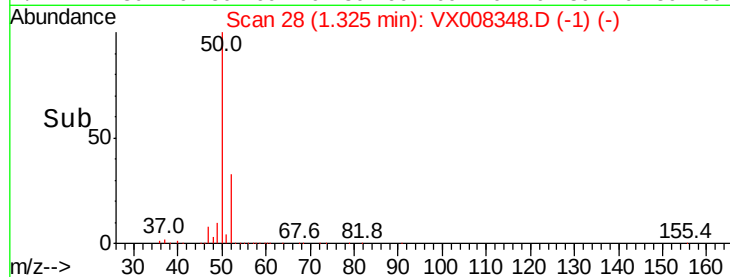
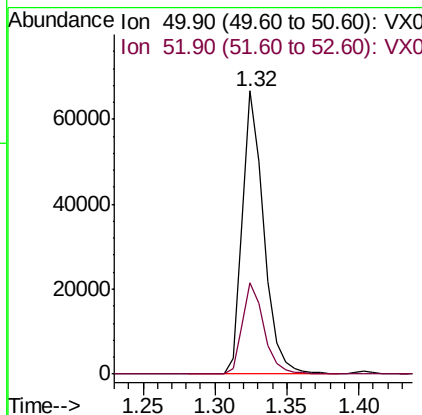
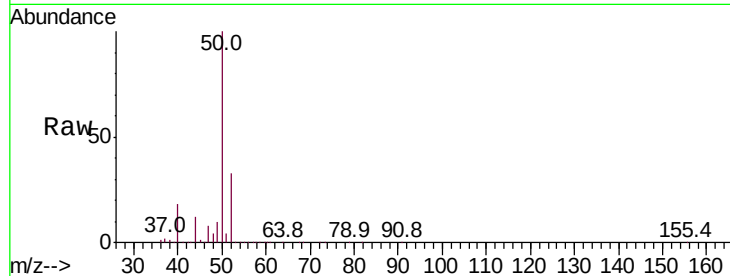
52 32.4 26.5 39.7

Manual Integrations

APPROVED

MMDadoda

3/25/2019 11:16:42 AM



#4

Vinyl Chloride

Concen: 21.841 ug/l

RT: 1.40 min Scan# 41

Delta R.T. 0.00 min

Lab File: VX008348.D

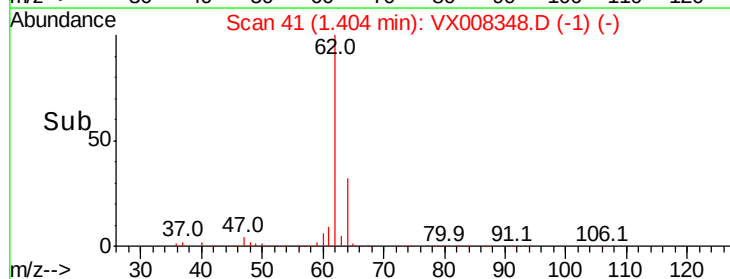
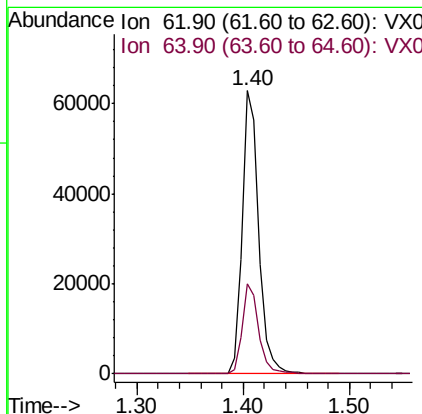
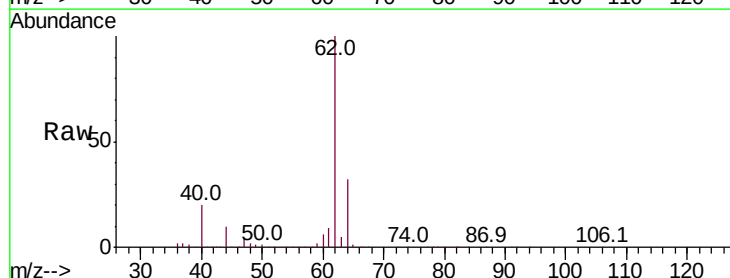
Acq: 23 Mar 2019 13:56

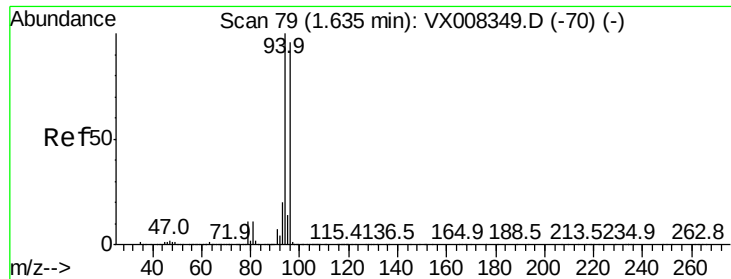
Tgt Ion: 62 Resp: 68464

Ion Ratio Lower Upper

62 100

64 31.5 25.3 37.9





#5

Bromomethane

Concen: 15.553 ug/l

RT: 1.64 min Scan# 79

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 94 Resp: 41529

Ion Ratio Lower Upper

94 100

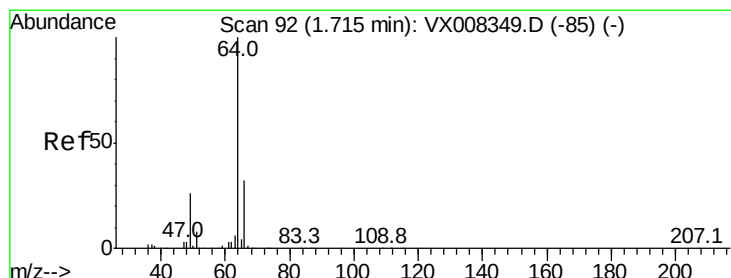
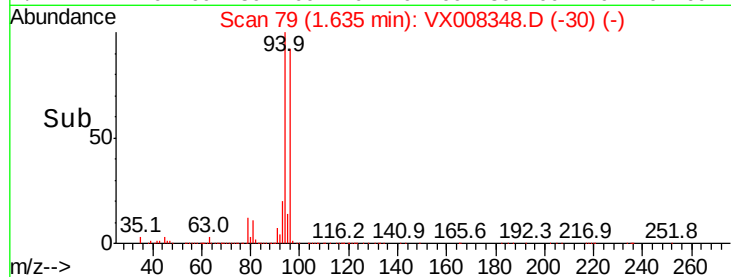
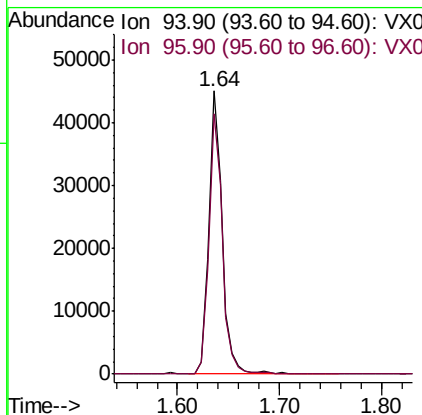
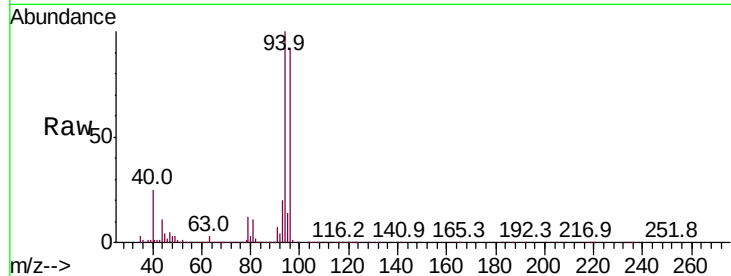
96 91.8 75.5 113.3

Manual Integrations

APPROVED

MMDadoda

3/25/2019 11:16:42 AM



#6

Chloroethane

Concen: 19.851 ug/l

RT: 1.72 min Scan# 93

Delta R.T. 0.01 min

Lab File: VX008348.D

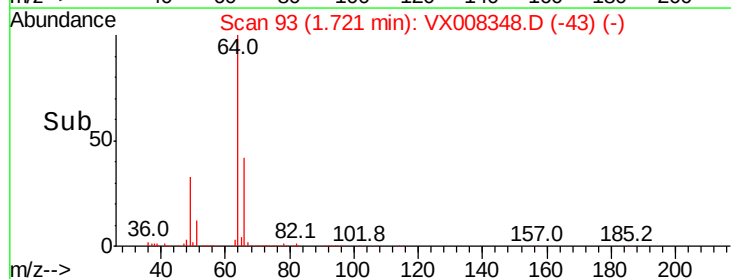
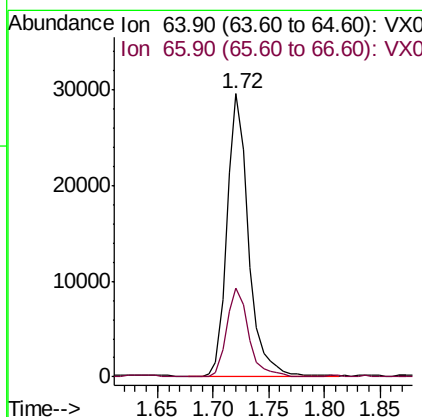
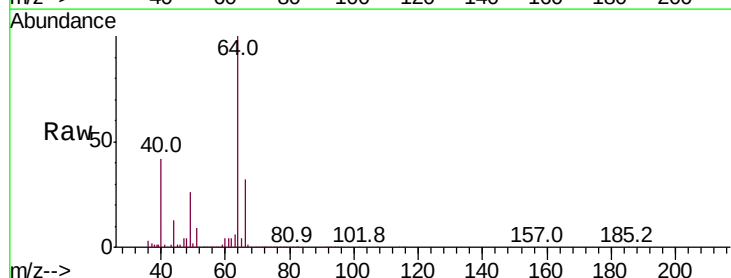
Acq: 23 Mar 2019 13:56

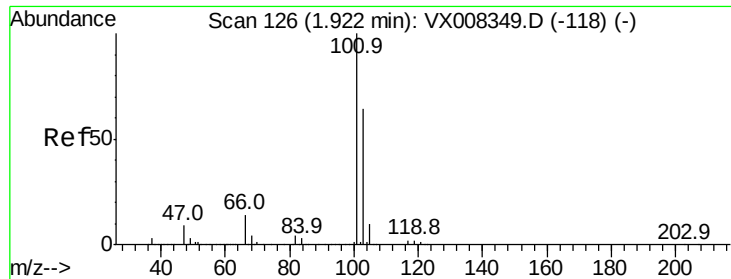
Tgt Ion: 64 Resp: 39016

Ion Ratio Lower Upper

64 100

66 31.4 25.2 37.8





#7

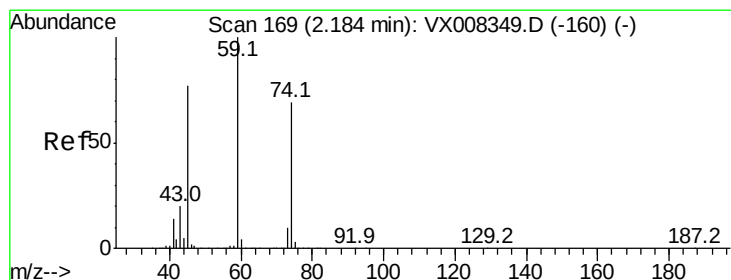
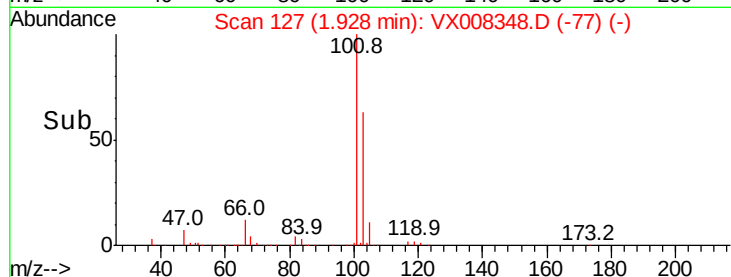
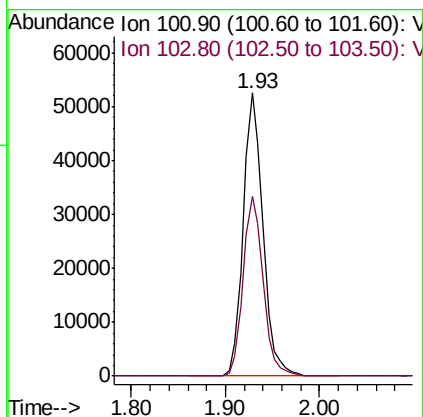
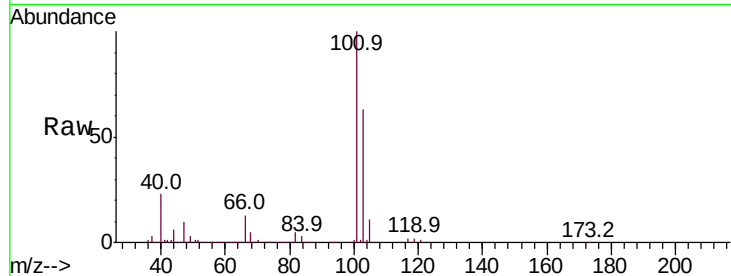
Trichlorofluoromethane
Concen: 19.229 ug/l
RT: 1.93 min Scan# 127
Delta R.T. 0.01 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion:101 Resp: 76923
Ion Ratio Lower Upper
101 100
103 63.3 50.4 75.6

Manual Integrations
APPROVED

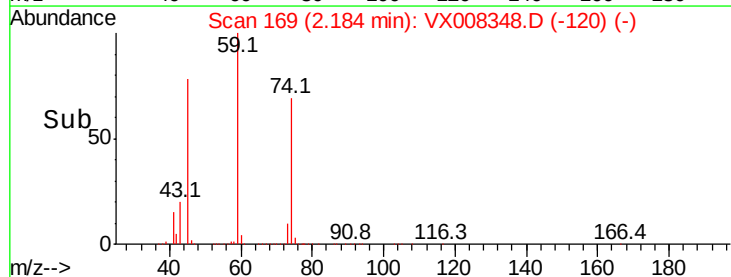
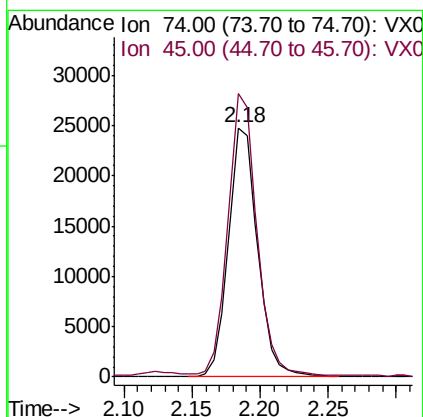
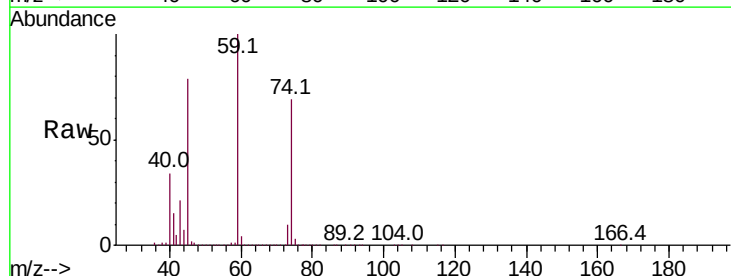
MMDadoda
3/25/2019 11:16:42 AM

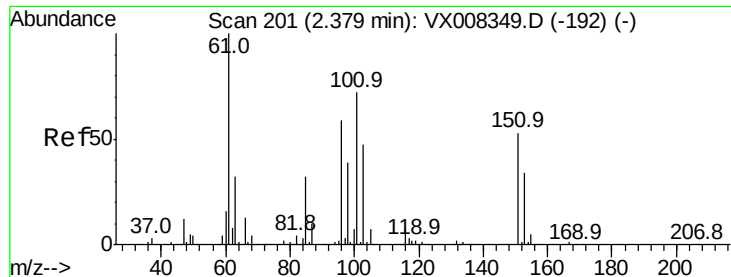


#8

Diethyl Ether
Concen: 18.041 ug/l
RT: 2.18 min Scan# 169
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion: 74 Resp: 37132
Ion Ratio Lower Upper
74 100
45 112.3 52.1 156.4





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.155 ug/l

RT: 2.38 min Scan# 201

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

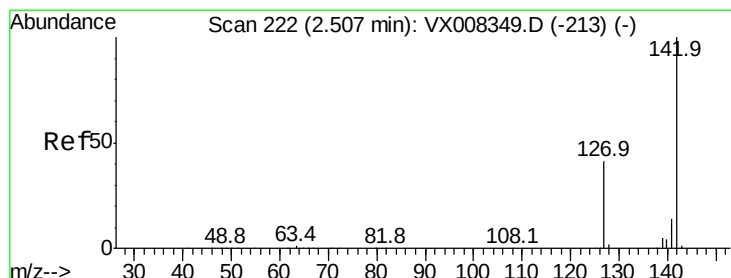
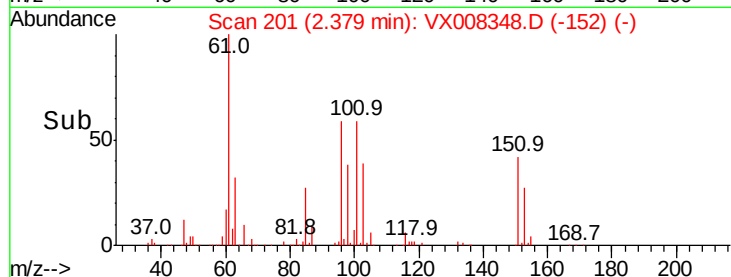
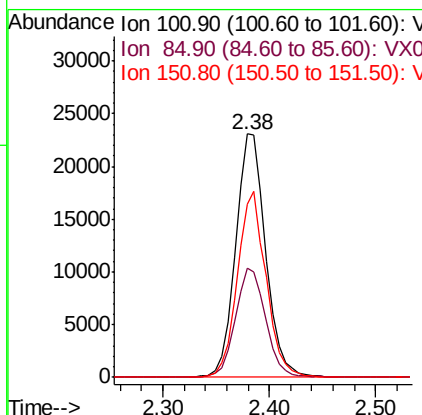
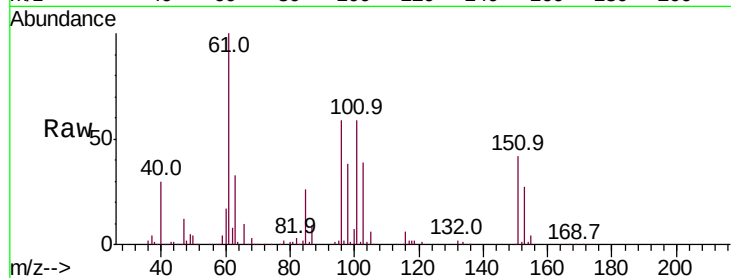
ClientSampleId :

VSTDIC020

Tot Ion:	101	Resp:	45564
Ion Ratio	Lower	Upper	
101	100		
85	45.5	33.8	50.6
151	73.4	69.1	103.7

Manual Integrations
APPROVED

MMDadoda
3/25/2019 11:16:42 AM



#10

Methyl Iodide

Concen: 16.471 ug/l

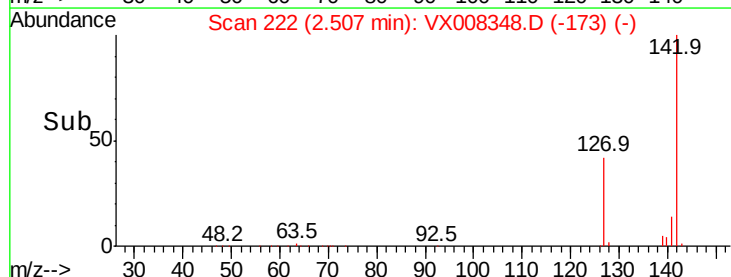
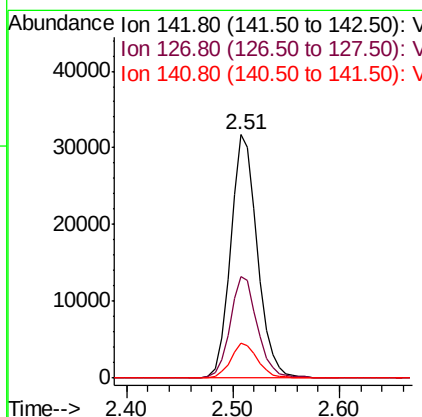
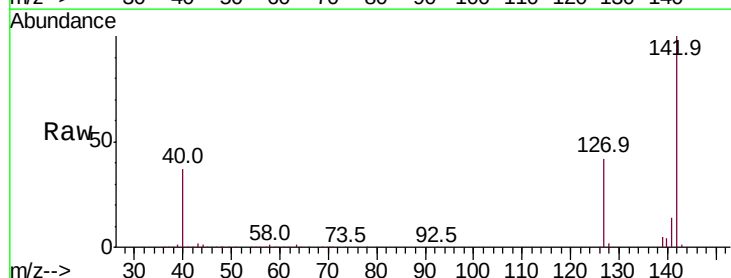
RT: 2.51 min Scan# 222

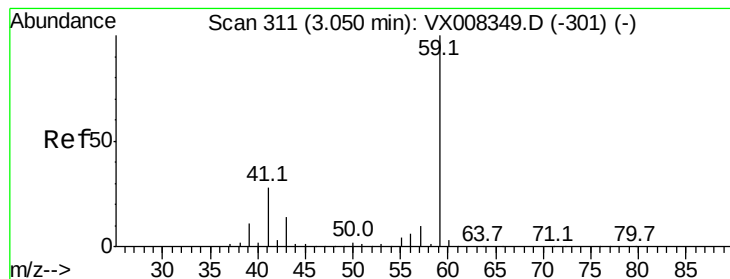
Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Tgt Ion:	142	Resp:	55704
Ion Ratio	Lower	Upper	
142	100		
127	42.6	32.1	48.1
141	14.5	11.4	17.2





#11

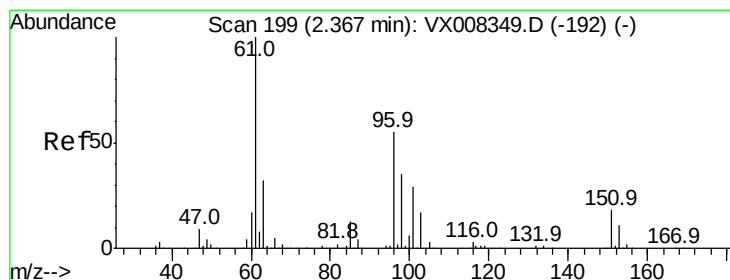
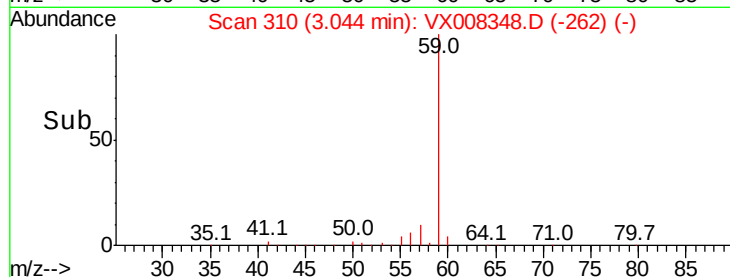
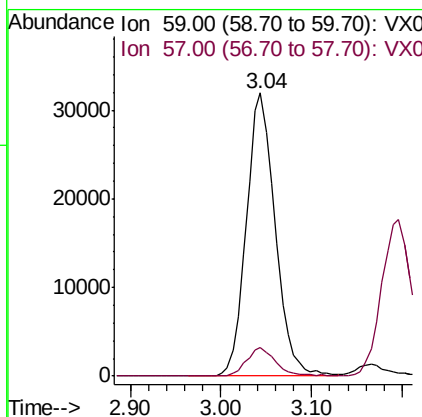
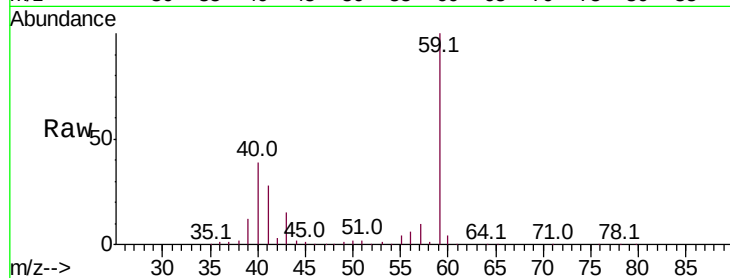
Tert butyl alcohol
 Concen: 105.591 ug/l
 RT: 3.04 min Scan# 310
 Delta R.T. -0.01 min
 Lab File: VX008348.D
 Acq: 23 Mar 2019 13:56

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion	59	57	Ratio	100	10.5	Resp	70356	Lower	Upper
Ion	59	57	Ratio	100	10.5	Resp	70356	Lower	Upper
								8.2	12.2

Manual Integrations
 APPROVED

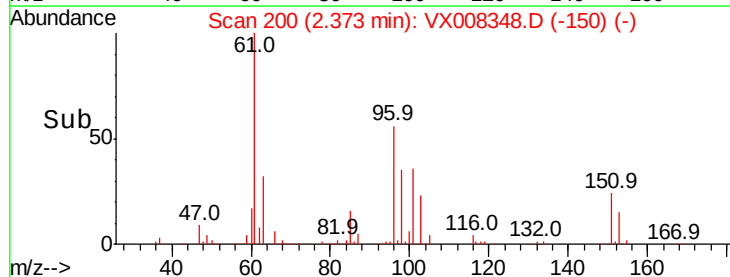
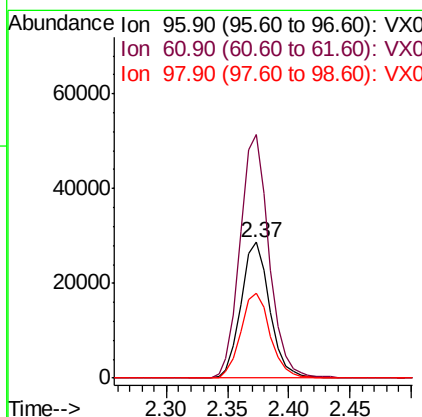
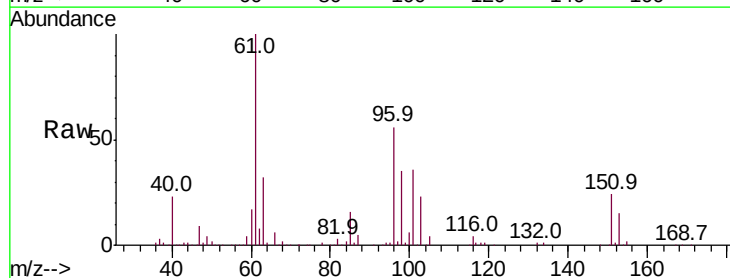
MMDadoda
 3/25/2019 11:16:42 AM

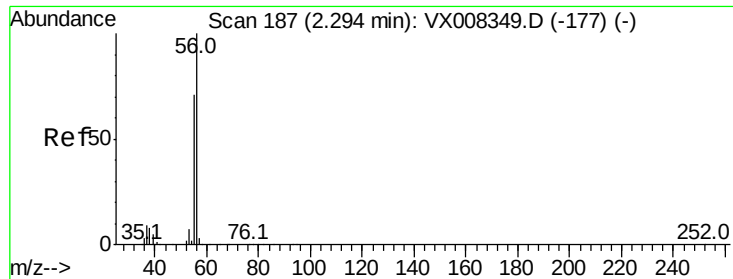


#12

1,1-Dichloroethene
 Concen: 18.750 ug/l
 RT: 2.37 min Scan# 200
 Delta R.T. 0.01 min
 Lab File: VX008348.D
 Acq: 23 Mar 2019 13:56

Tgt Ion	96	61	98	Ratio	100	179.0	62.7	Resp	47015	Lower	Upper
Ion	96	61	98	Ratio	100	179.0	62.7	Resp	47015	Lower	Upper
										129.8	194.6
										51.0	76.6





#13

Acrolein

Concen: 118.440 ug/l

RT: 2.29 min Scan# 187

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 56 Resp: 60151

Ion Ratio Lower Upper

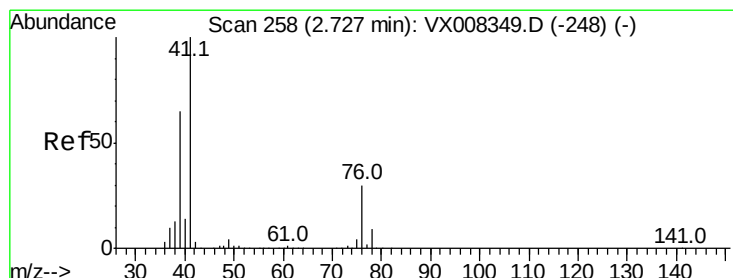
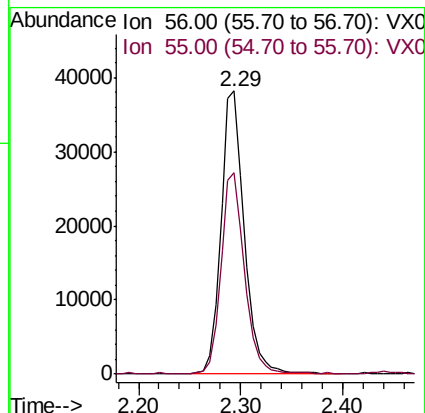
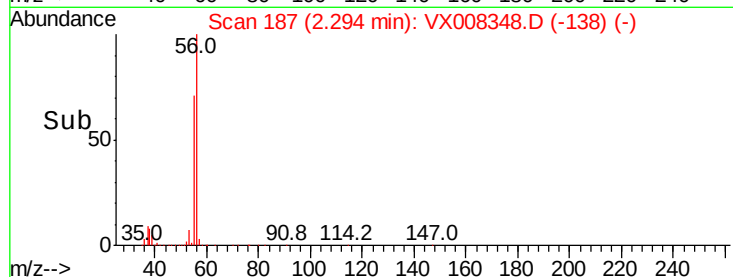
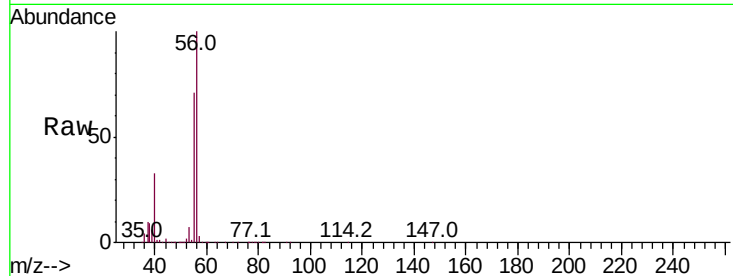
56 100

55 72.0 57.8 86.6

Manual Integrations
APPROVED

MMDadoda

3/25/2019 11:16:42 AM



#14

Allyl chloride

Concen: 18.964 ug/l

RT: 2.73 min Scan# 258

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

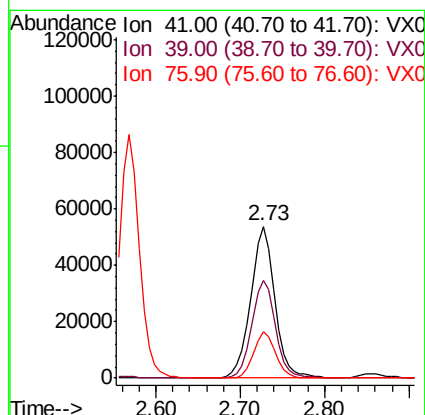
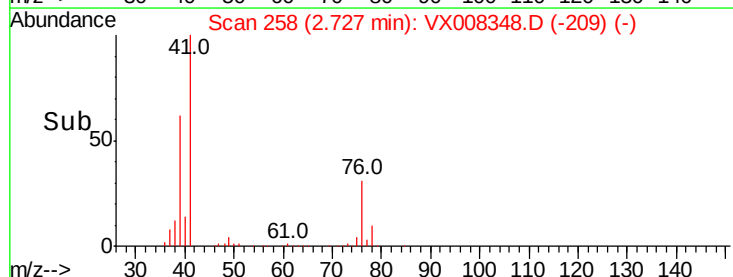
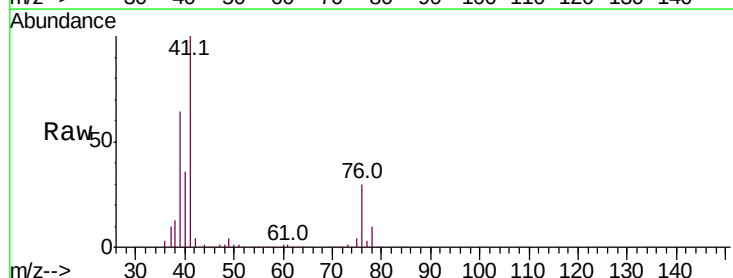
Tgt Ion: 41 Resp: 103517

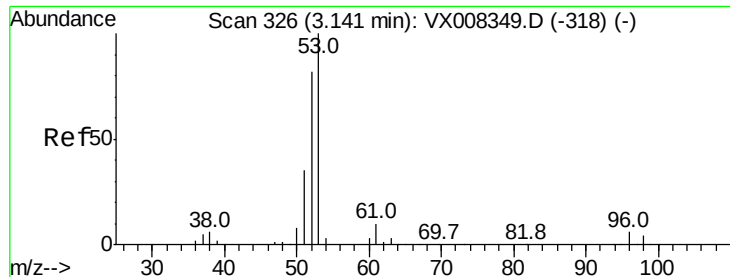
Ion Ratio Lower Upper

41 100

39 62.4 46.1 69.1

76 28.2 24.0 36.0





#15

Acrylonitrile

Concen: 103.839 ug/l

RT: 3.14 min Scan# 326

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

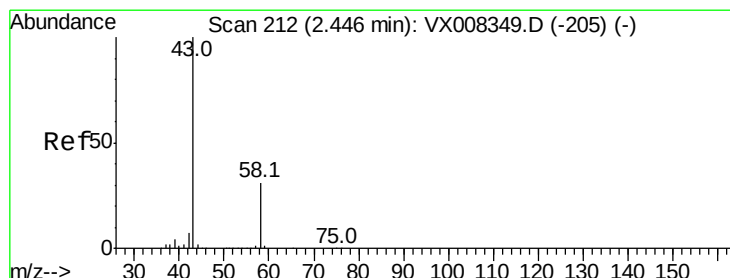
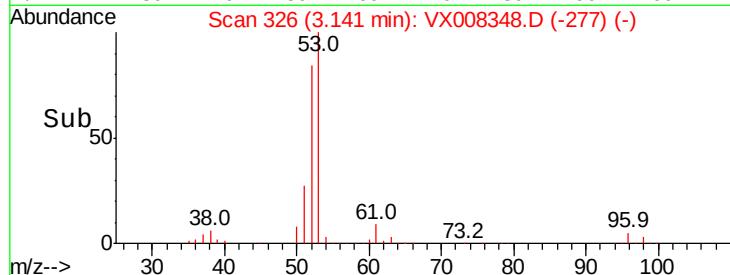
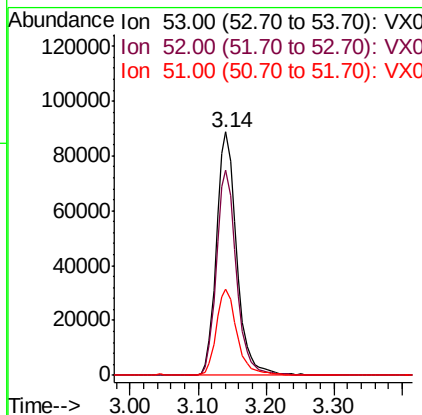
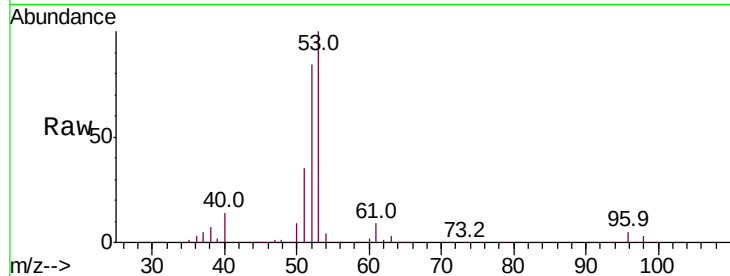
ClientSampleId :

VSTDIC020

Tot Ion:	53	Resp:	183005
Ion	Ratio	Lower	Upper
53	100		
52	82.7	66.0	99.0
51	35.9	28.0	42.0

Manual Integrations
APPROVED

MMDadoda
3/25/2019 11:16:42 AM



#16

Acetone

Concen: 92.194 ug/l

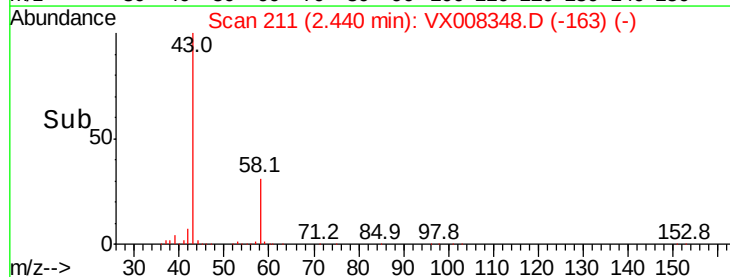
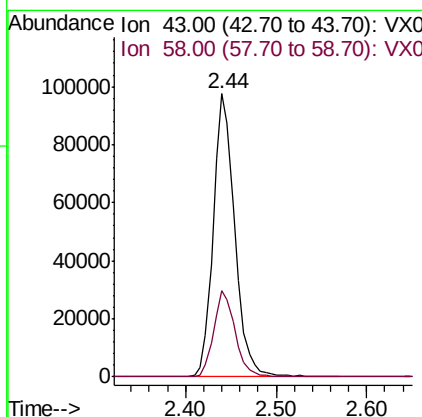
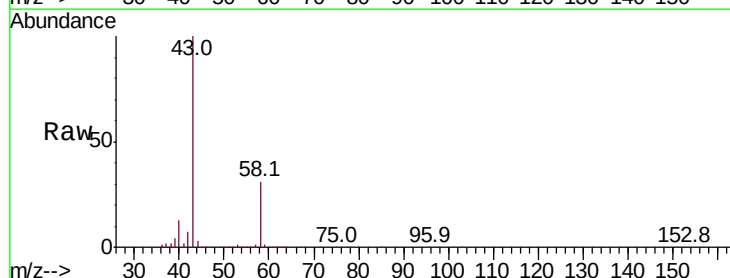
RT: 2.44 min Scan# 211

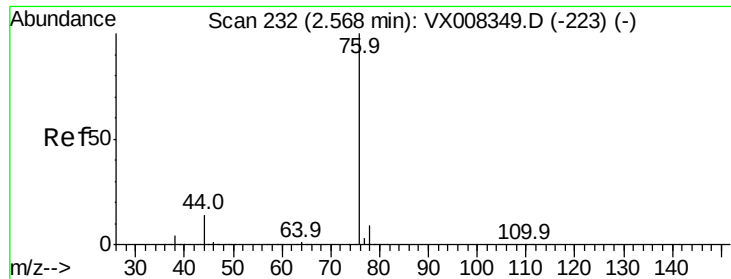
Delta R.T. -0.01 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Tgt Ion:	43	Resp:	162750
Ion	Ratio	Lower	Upper
43	100		
58	30.4	25.5	38.3





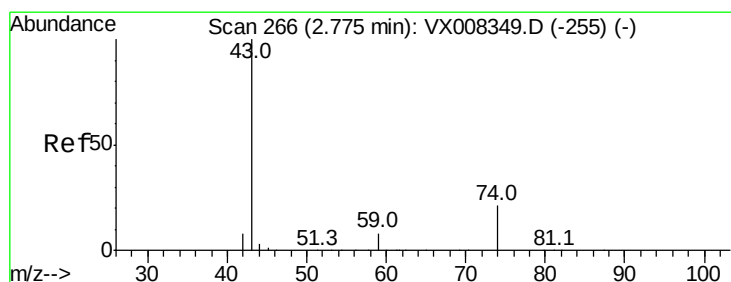
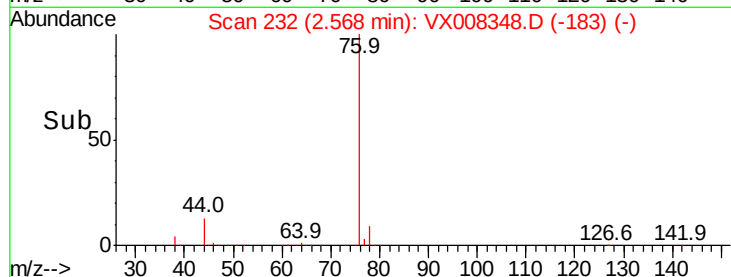
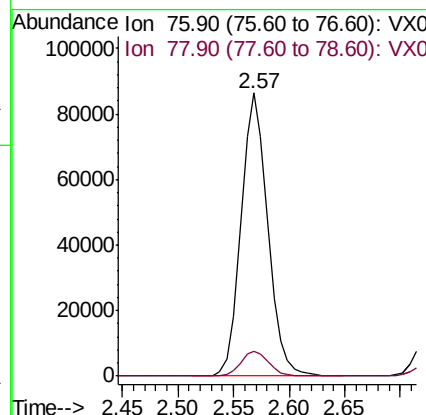
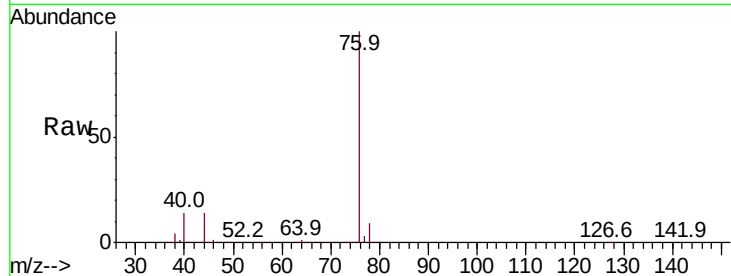
#17
Carbon Disulfide
Concen: 17.697 ug/l
RT: 2.57 min Scan# 232
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
76	100		
78	8.9	7.2	10.8

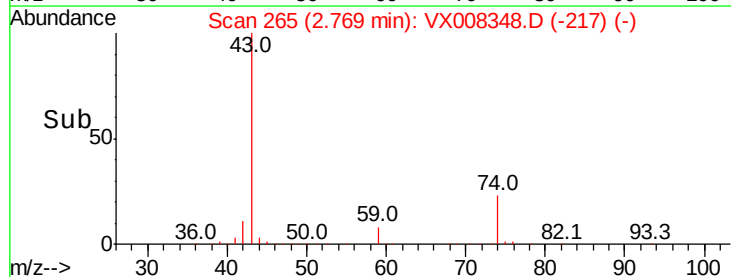
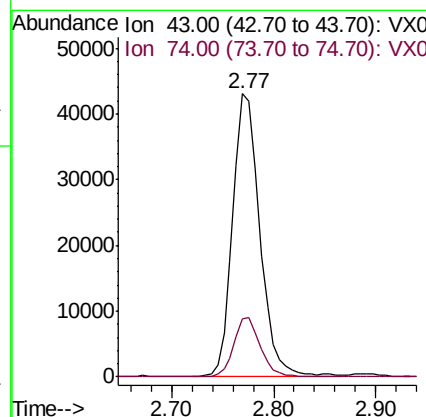
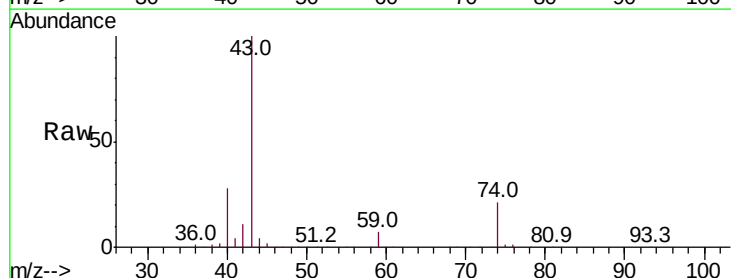
Manual Integrations
APPROVED

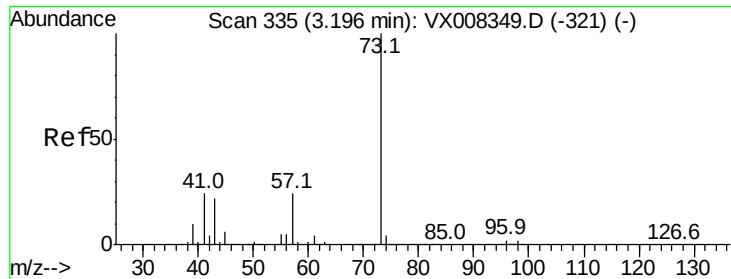
MMDadoda
3/25/2019 11:16:42 AM



#18
Methyl Acetate
Concen: 19.339 ug/l
RT: 2.77 min Scan# 265
Delta R.T. -0.01 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Lower	Upper
43	100		
74	20.9	17.8	26.6





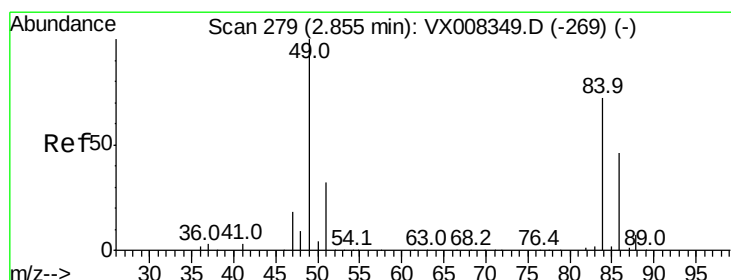
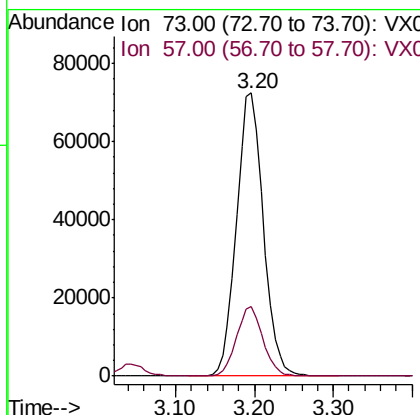
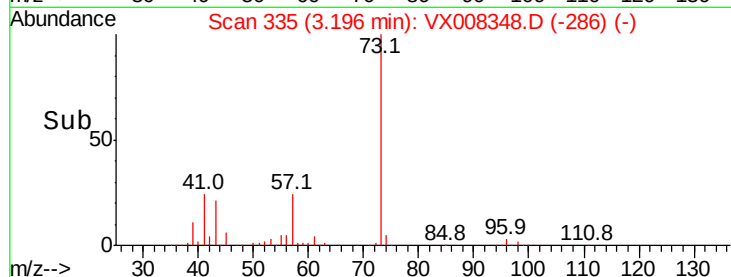
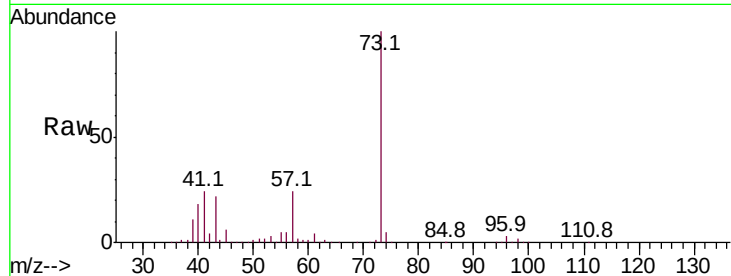
#19
Methyl tert-butyl Ether
Concen: 18.968 ug/l
RT: 3.20 min Scan# 335
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion: 73 Resp: 171973
Ion Ratio Lower Upper
73 100
57 24.3 18.2 27.4

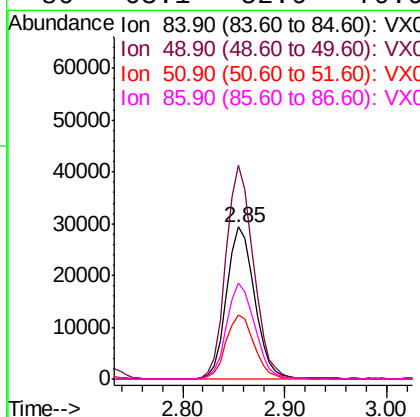
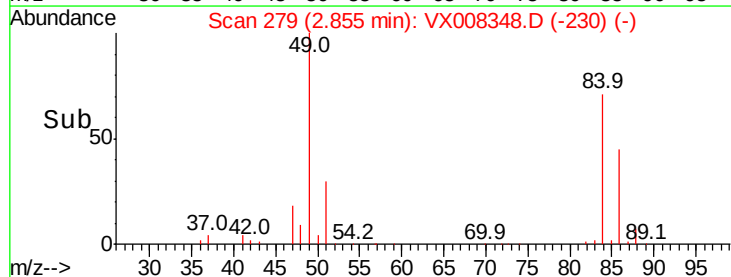
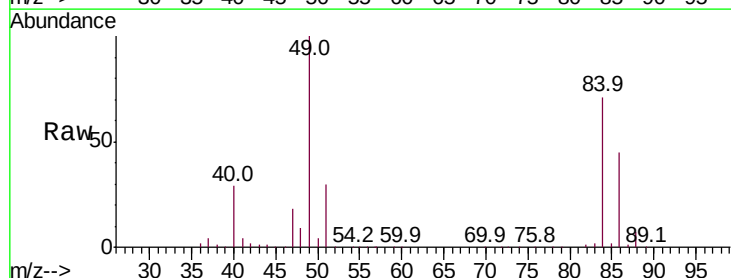
Manual Integrations
APPROVED

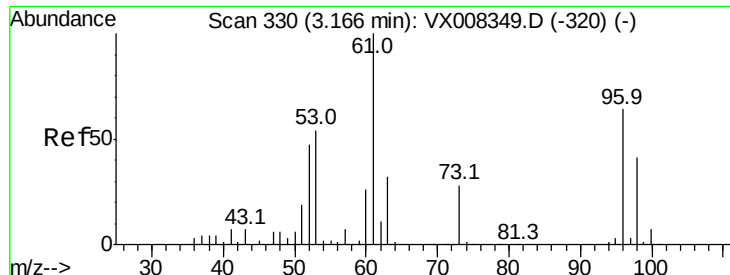
MMDadoda
3/25/2019 11:16:42 AM



#20
Methylene Chloride
Concen: 19.023 ug/l
RT: 2.85 min Scan# 279
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion: 84 Resp: 55998
Ion Ratio Lower Upper
84 100
49 140.4 99.3 148.9
51 41.6 31.3 46.9
86 63.1 52.6 79.0





#21

trans-1,2-Dichloroethene

Concen: 18.609 ug/l

RT: 3.17 min Scan# 330

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion: 96 Resp: 50409

Ion Ratio Lower Upper

96 100

61 154.4 114.4 171.6

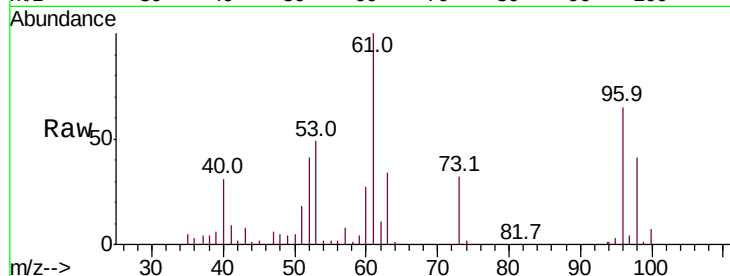
98 63.6 51.1 76.7

Manual Integrations

APPROVED

MMDadoda

3/25/2019 11:16:42 AM

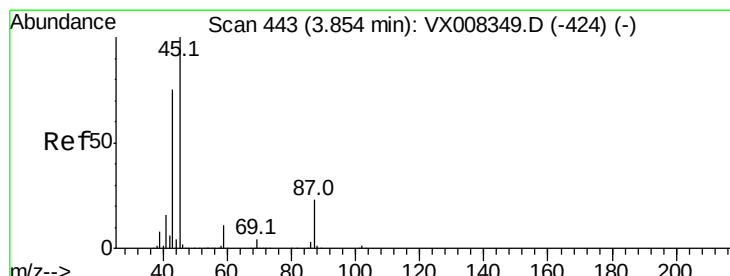
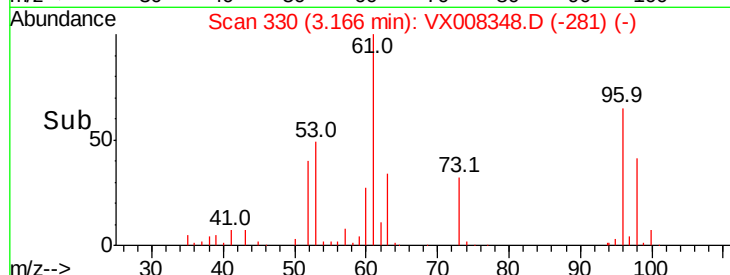
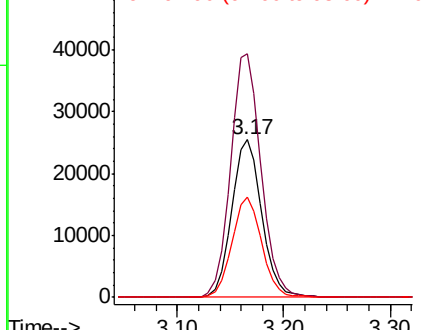


Abundance

Ion 95.90 (95.60 to 96.60): VX0

Ion 60.90 (60.60 to 61.60): VX0

Ion 97.90 (97.60 to 98.60): VX0



#22

Diisopropyl ether

Concen: 19.408 ug/l

RT: 3.85 min Scan# 443

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Tgt Ion: 45 Resp: 207486

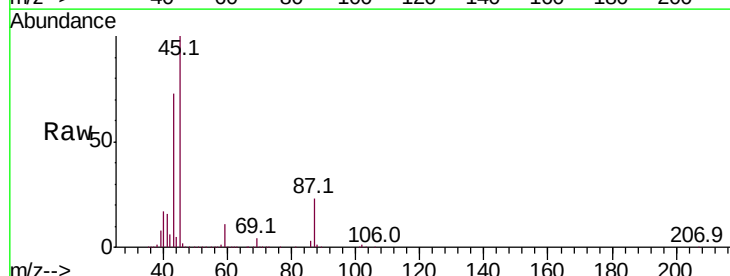
Ion Ratio Lower Upper

45 100

43 73.1 45.3 67.9#

87 22.7 21.4 32.0

59 10.8 9.5 14.3



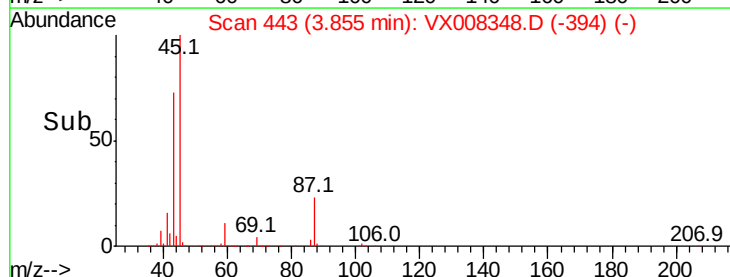
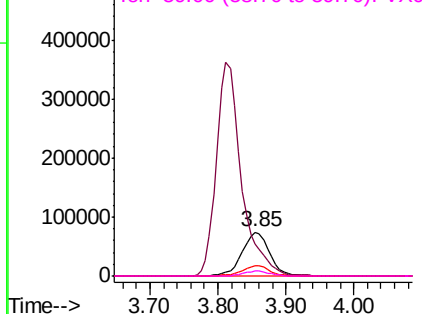
Abundance

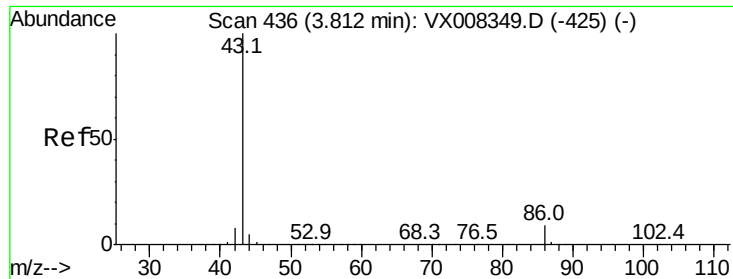
Ion 45.00 (44.70 to 45.70): VX0

Ion 43.00 (42.70 to 43.70): VX0

Ion 87.00 (86.70 to 87.70): VX0

Ion 59.00 (58.70 to 59.70): VX0





#23

Vinyl Acetate

Concen: 101.447 ug/l

RT: 3.81 min Scan# 436

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 929824

Ion Ratio Lower Upper

43 100

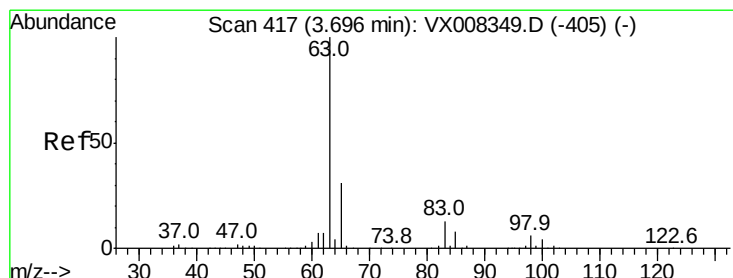
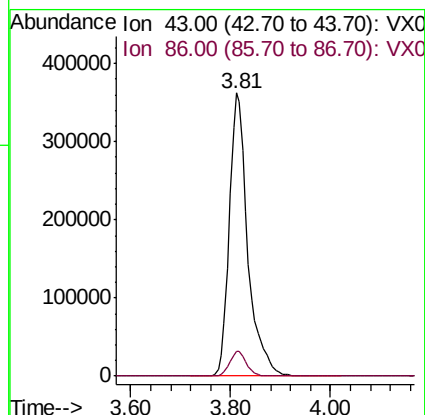
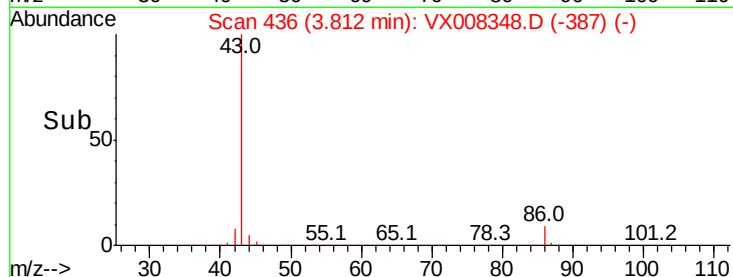
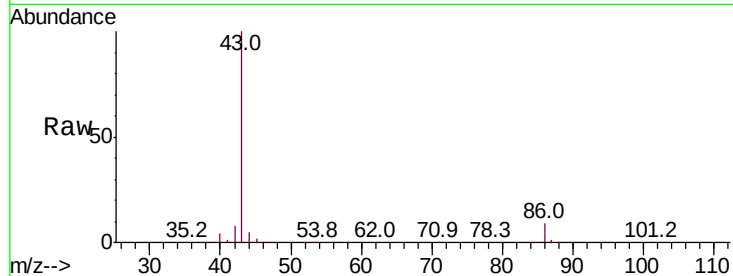
86 8.7 7.9 11.9

Manual Integrations

APPROVED

MMDadoda

3/25/2019 11:16:42 AM



#24

1,1-Dichloroethane

Concen: 18.978 ug/l

RT: 3.70 min Scan# 417

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

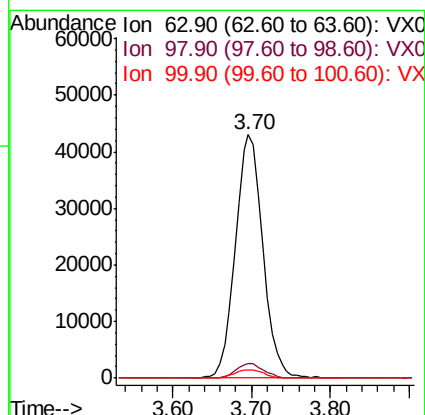
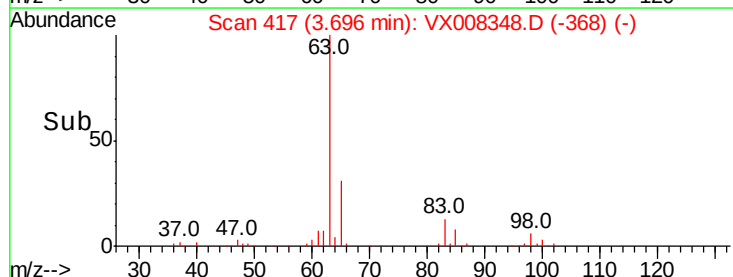
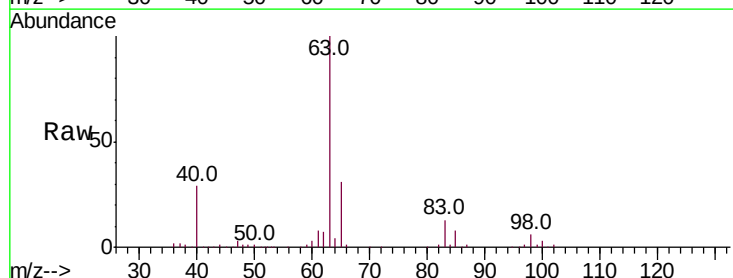
Tgt Ion: 63 Resp: 104350

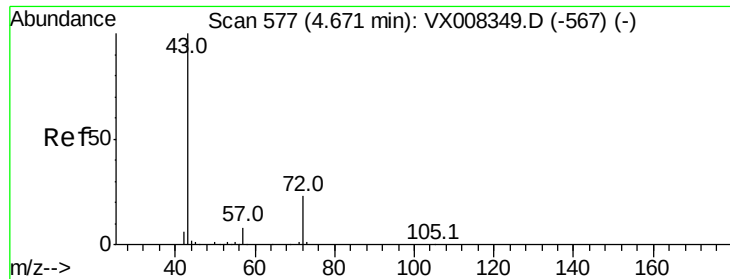
Ion Ratio Lower Upper

63 100

98 6.2 3.3 9.8

100 3.3 2.3 6.8





#25

2-Butanone

Concen: 101.971 ug/l

RT: 4.67 min Scan# 577

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion: 43 Resp: 265717

Ion Ratio Lower Upper

43 100

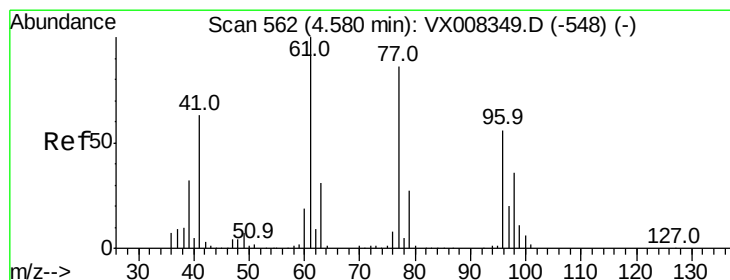
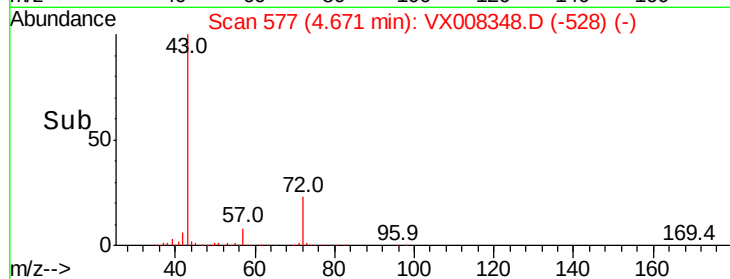
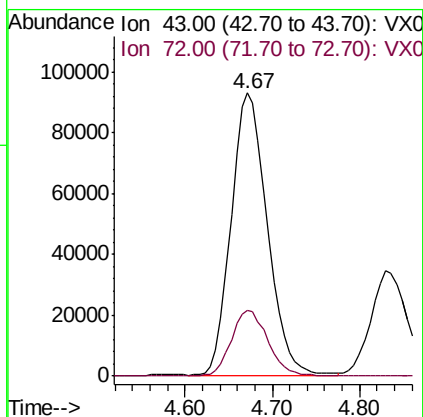
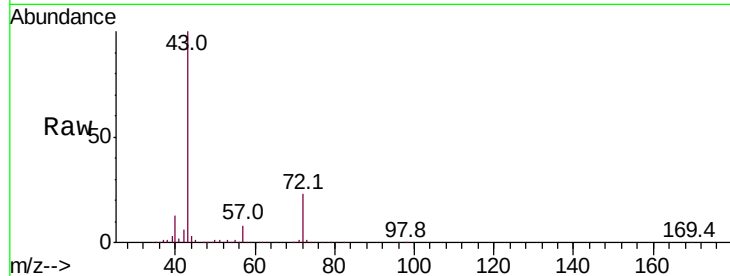
72 23.2 19.9 29.9

Manual Integrations

APPROVED

MMDadoda

3/25/2019 11:16:42 AM



#26

2,2-Dichloropropane

Concen: 16.031 ug/l

RT: 4.58 min Scan# 562

Delta R.T. 0.00 min

Lab File: VX008348.D

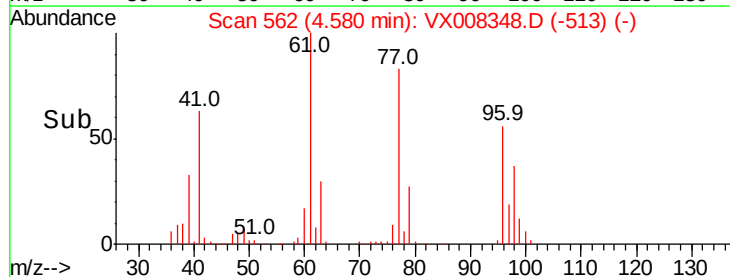
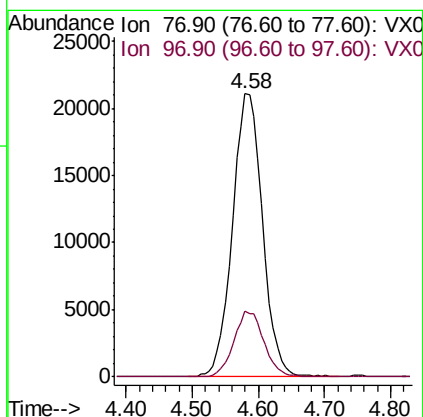
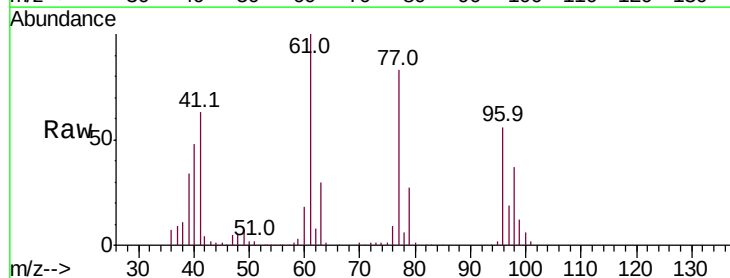
Acq: 23 Mar 2019 13:56

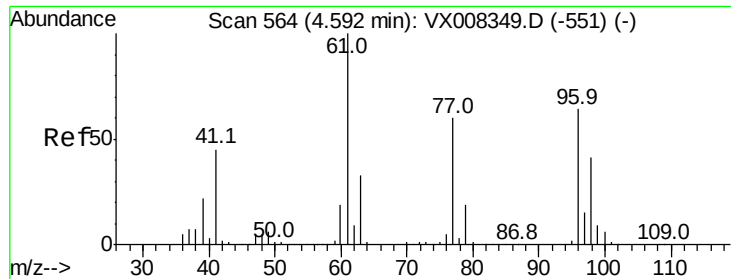
Tgt Ion: 77 Resp: 66403

Ion Ratio Lower Upper

77 100

97 23.1 12.2 36.6





#27

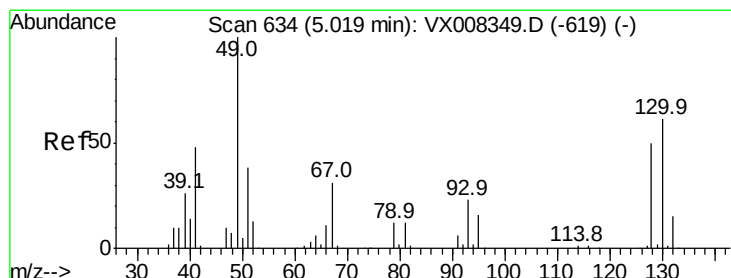
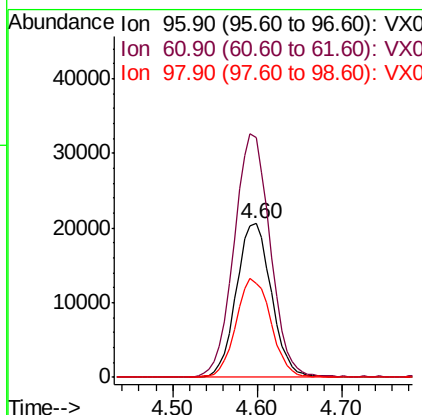
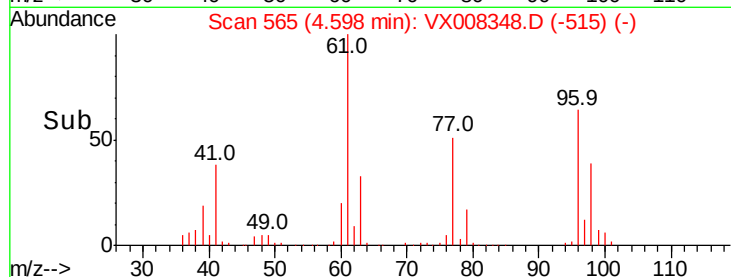
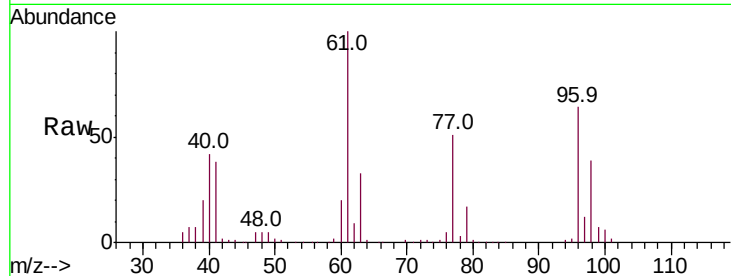
cis-1,2-Dichloroethene
 Concen: 18.788 ug/l
 RT: 4.60 min Scan# 565
 Delta R.T. 0.01 min
 Lab File: VX008348.D
 Acq: 23 Mar 2019 13:56

Instrument :
 MSVOA_X
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	163.9	0.0	288.0
98	64.2	0.0	129.0

Manual Integrations
 APPROVED

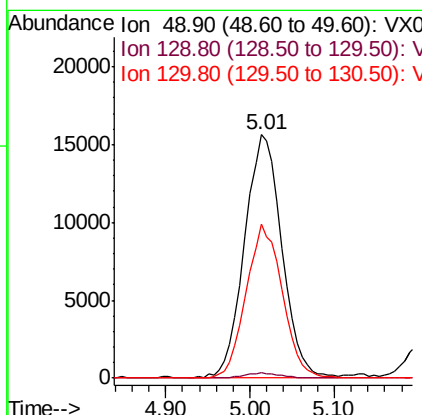
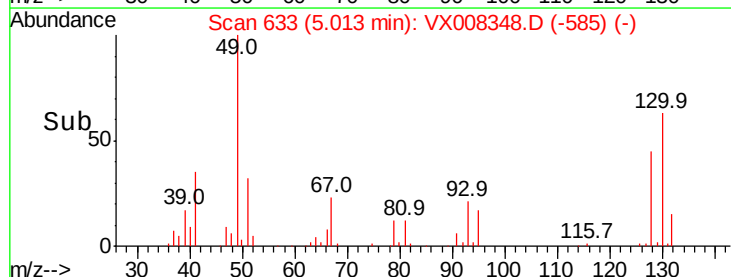
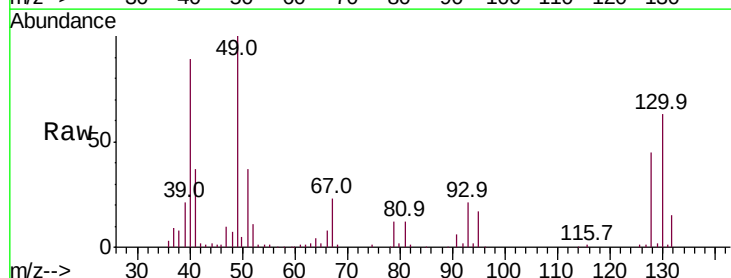
MMDadoda
 3/25/2019 11:16:42 AM

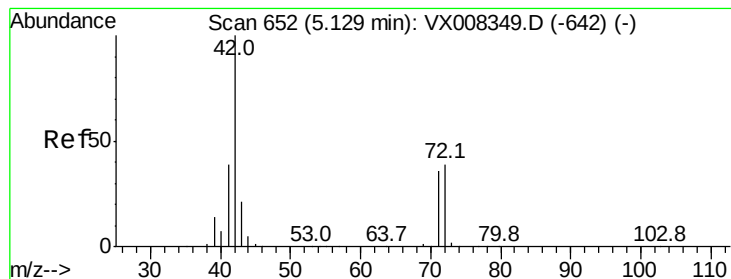


#28

Bromochloromethane
 Concen: 19.146 ug/l
 RT: 5.01 min Scan# 633
 Delta R.T. -0.01 min
 Lab File: VX008348.D
 Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Lower	Upper
49	100		
129	1.9	0.0	4.0
130	61.0	65.0	97.4#





#29

Tetrahydrofuran

Concen: 109.048 ug/l

RT: 5.13 min Scan# 652

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 42 Resp: 177637

Ion Ratio Lower Upper

42 100

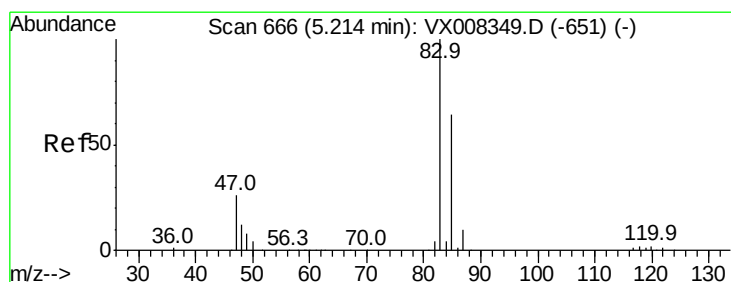
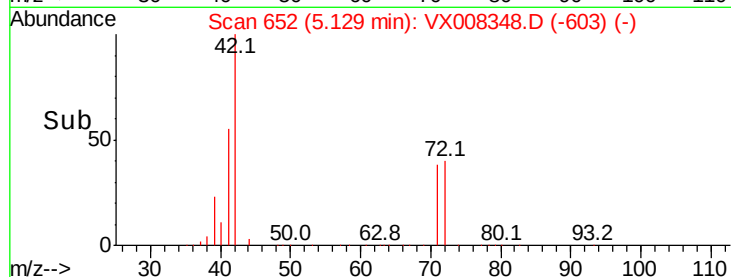
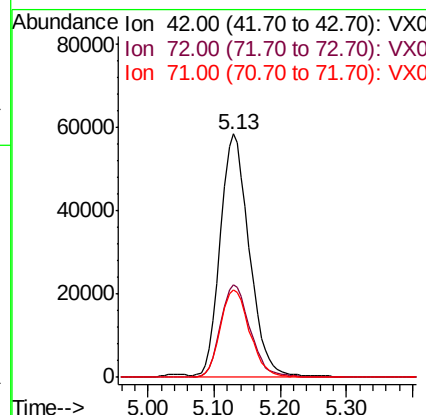
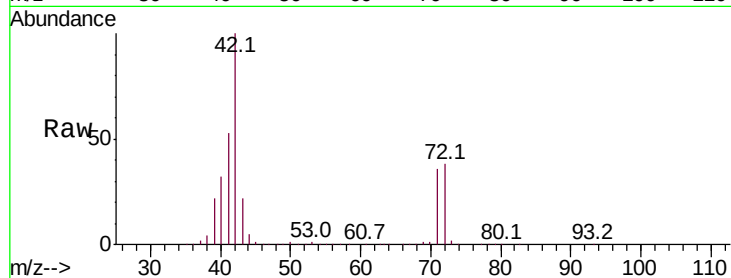
72 39.0 33.8 50.6

71 36.7 31.5 47.3

Manual Integrations
APPROVED

MMDadoda

3/25/2019 11:16:42 AM



#30

Chloroform

Concen: 18.483 ug/l

RT: 5.21 min Scan# 665

Delta R.T. -0.01 min

Lab File: VX008348.D

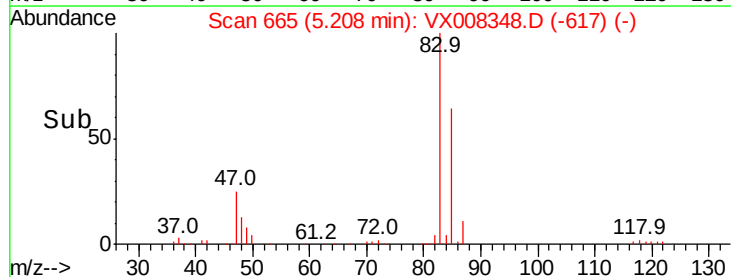
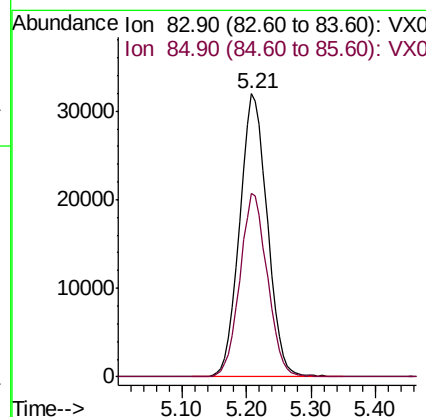
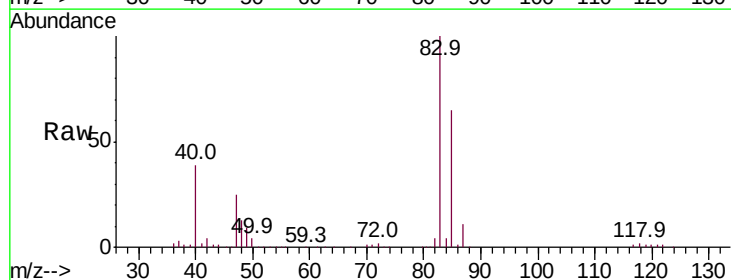
Acq: 23 Mar 2019 13:56

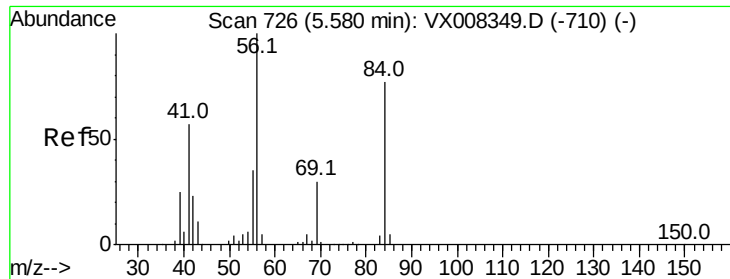
Tgt Ion: 83 Resp: 95063

Ion Ratio Lower Upper

83 100

85 64.9 51.8 77.6





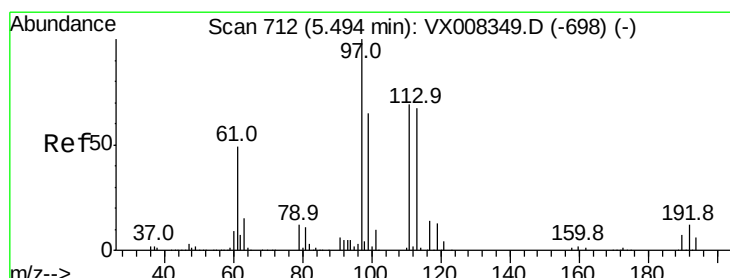
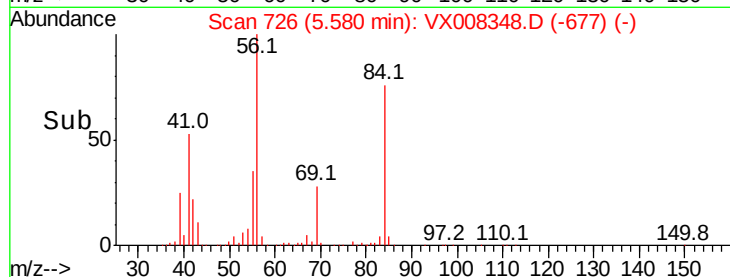
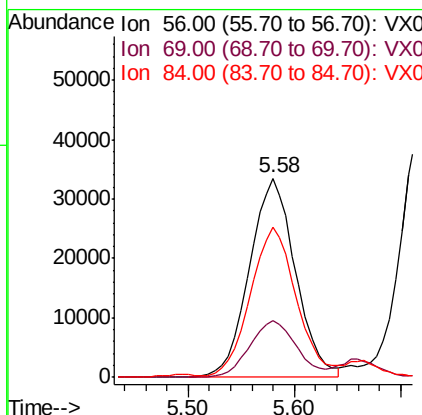
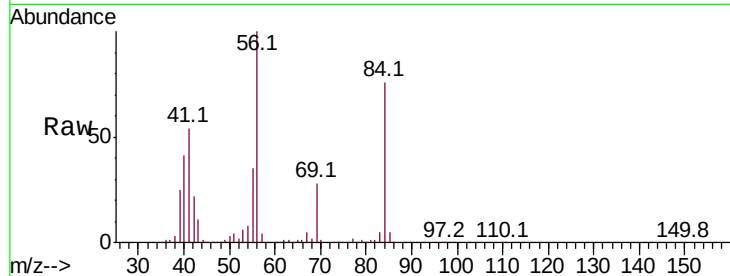
#31
Cyclohexane
Concen: 19.530 ug/l
RT: 5.58 min Scan# 726
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
56	100		
69	28.2	24.0	36.0
84	74.1	65.3	97.9

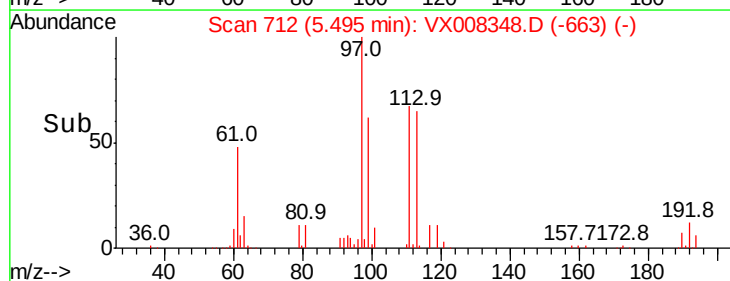
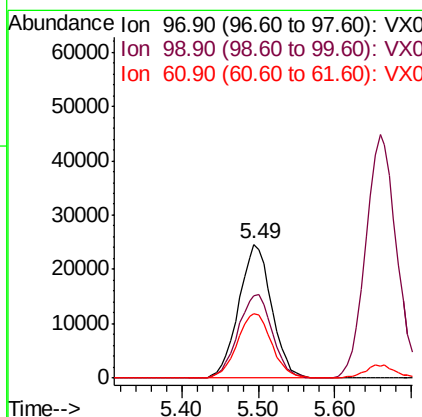
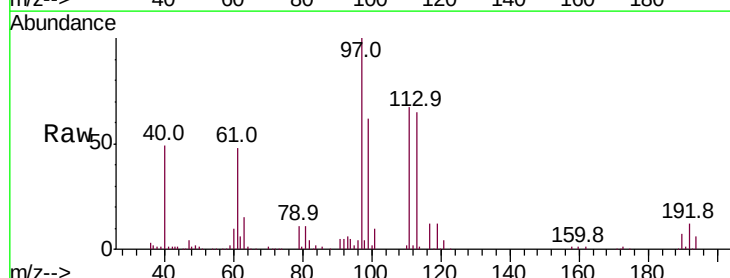
Manual Integrations
APPROVED

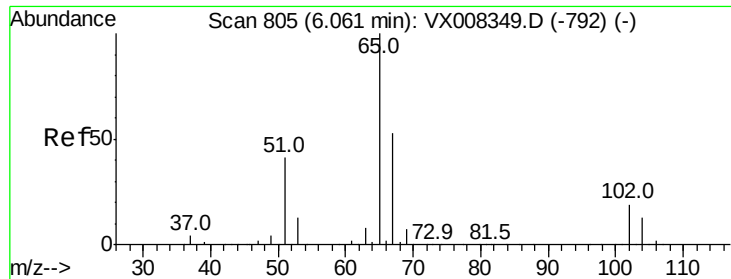
MMDadoda
3/25/2019 11:16:42 AM



#32
1,1,1-Trichloroethane
Concen: 17.255 ug/l
RT: 5.49 min Scan# 712
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Lower	Upper
97	100		
99	65.3	52.2	78.2
61	50.6	34.9	52.3





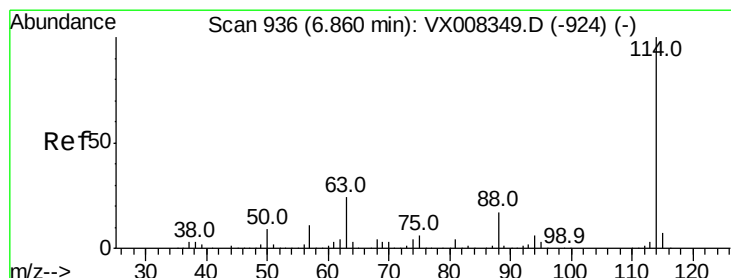
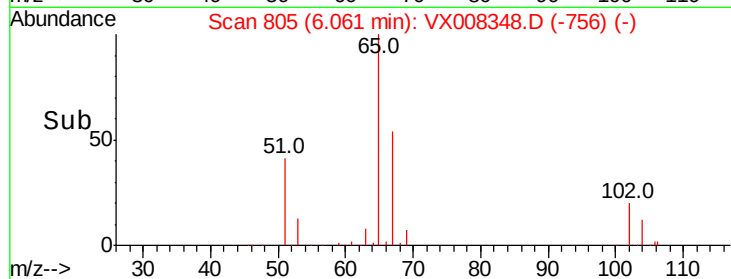
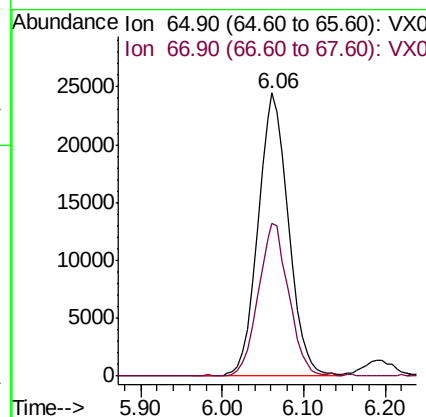
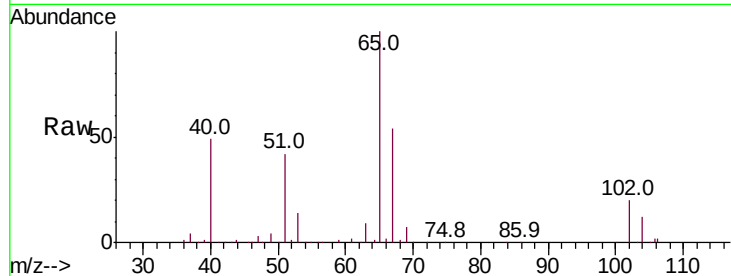
#33
 1,2-Dichloroethane-d4
 Concen: 20.451 ug/l
 RT: 6.06 min Scan# 805
 Delta R.T. 0.00 min
 Lab File: VX008348.D
 Acq: 23 Mar 2019 13:56

Instrument :
 MSVOA_X
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.1	0.0	110.0

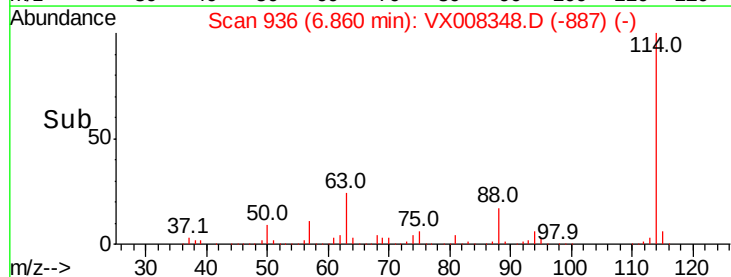
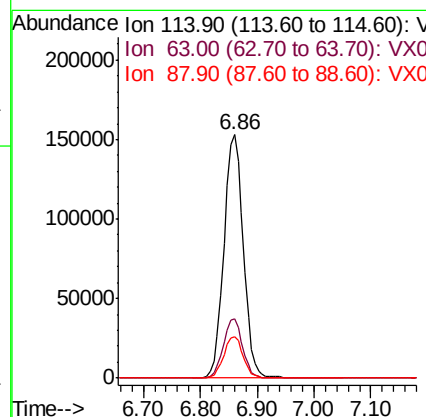
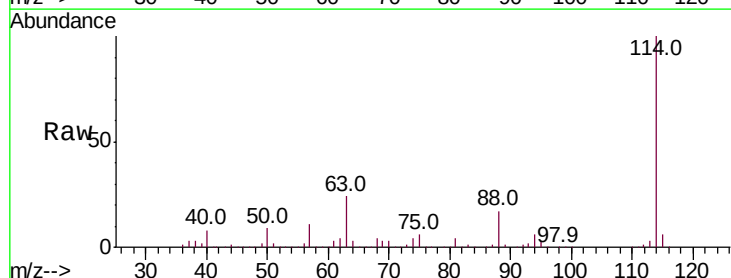
Manual Integrations
 APPROVED

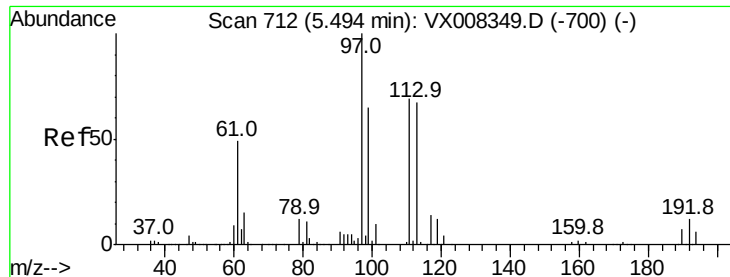
MMDadoda
 3/25/2019 11:16:42 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.86 min Scan# 936
 Delta R.T. 0.00 min
 Lab File: VX008348.D
 Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Lower	Upper
114	100		
63	24.2	0.0	39.8
88	17.1	0.0	31.4





#35

Dibromofluoromethane

Concen: 19.226 ug/l

RT: 5.50 min Scan# 713

Delta R.T. 0.01 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

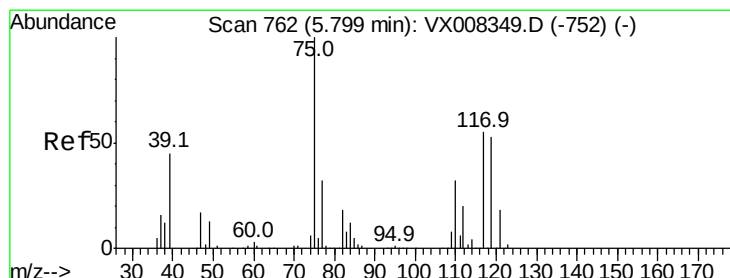
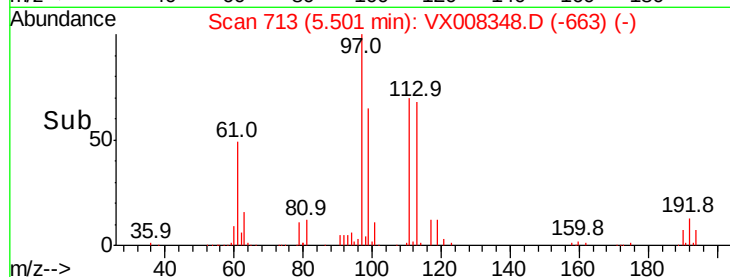
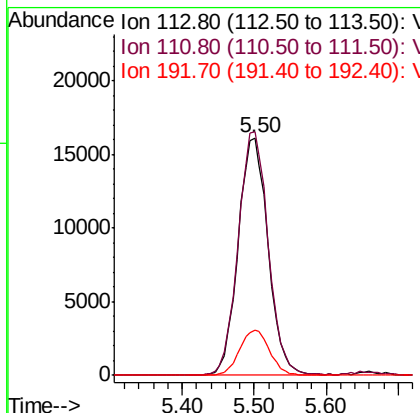
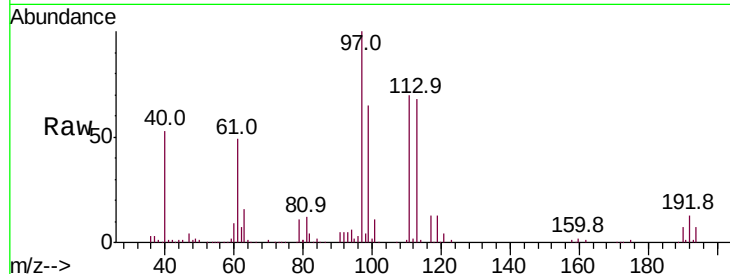
ClientSampleId :

VSTDIC020

Tot Ion	Ratio	Lower	Upper
113	100		
111	103.1	81.4	122.0
192	19.0	19.4	29.0

Manual Integrations
APPROVED

MMDadoda
3/25/2019 11:16:42 AM



#36

1,1-Dichloropropene

Concen: 17.157 ug/l

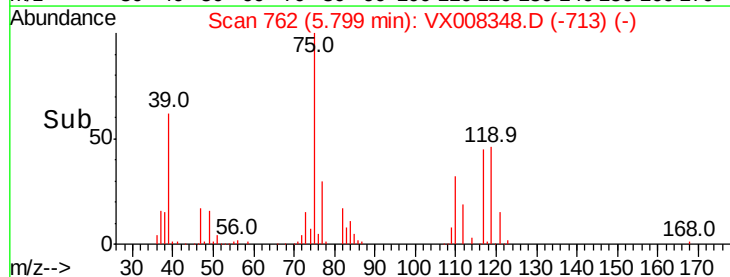
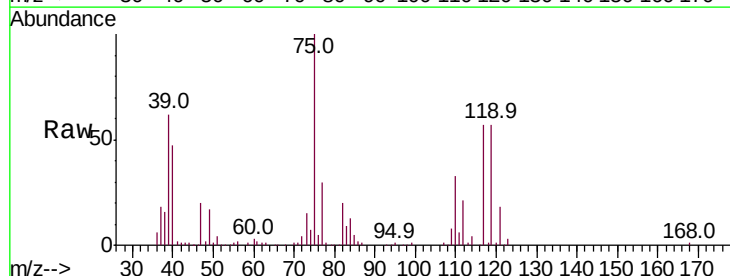
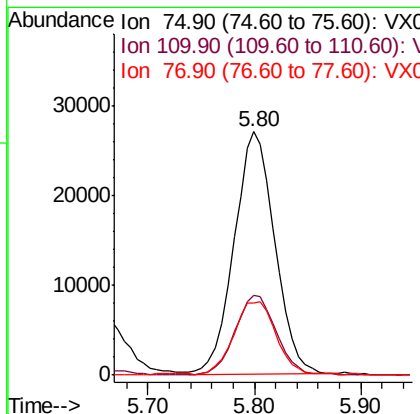
RT: 5.80 min Scan# 762

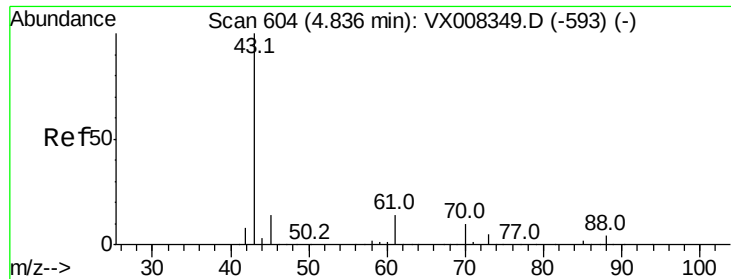
Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Lower	Upper
75	100		
110	33.6	18.4	55.0
77	31.6	25.0	37.4





#37

Ethyl Acetate

Concen: 20.466 ug/l

RT: 4.83 min Scan# 603

Delta R.T. -0.01 min

Lab File: VX008348.D

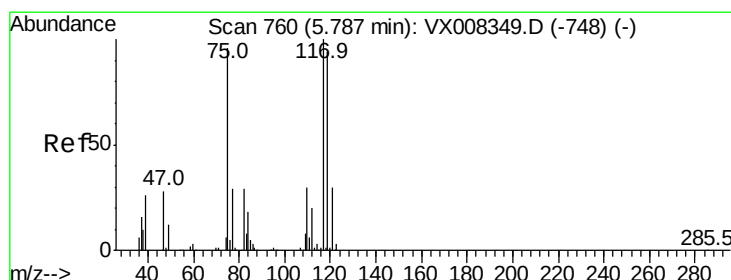
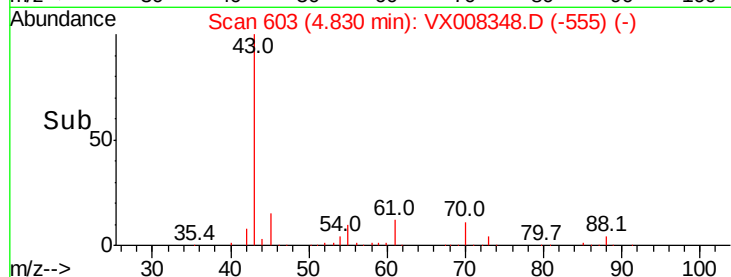
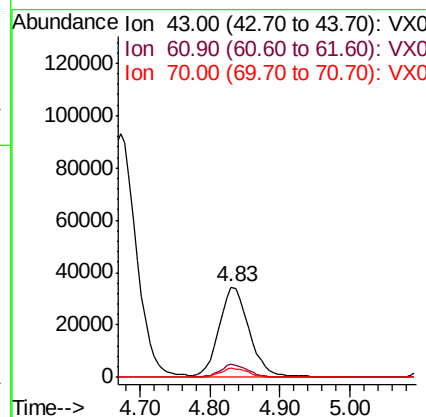
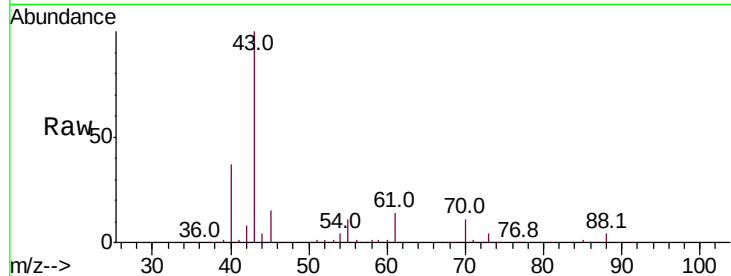
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
43	100		
61	13.2	11.3	16.9
70	10.2	8.5	12.7

Manual Integrations
APPROVED

MMDadoda
3/25/2019 11:16:42 AM



#38

Carbon Tetrachloride

Concen: 16.508 ug/l

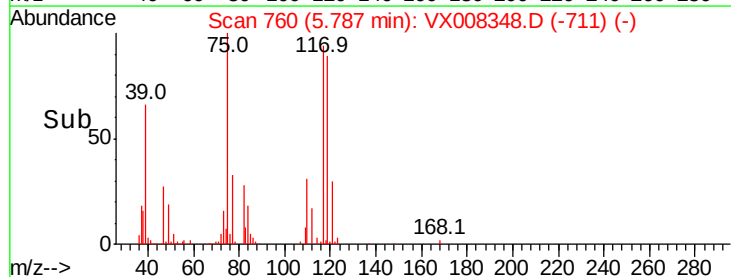
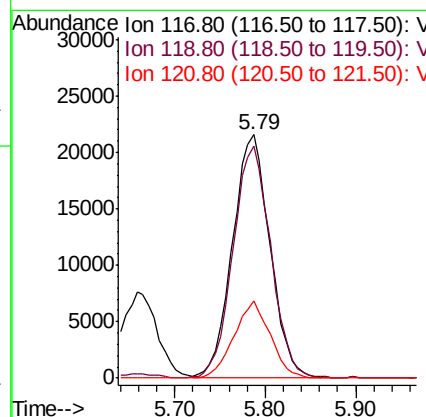
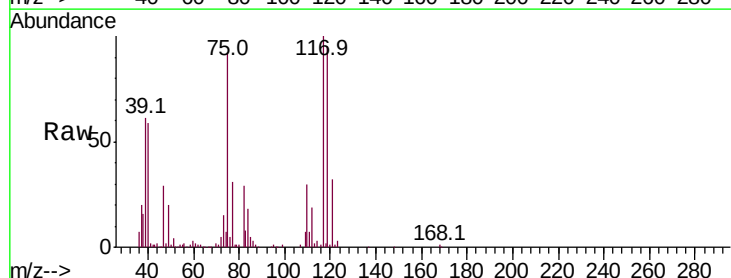
RT: 5.79 min Scan# 760

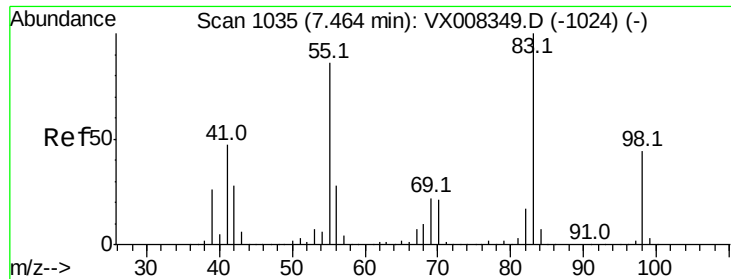
Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Lower	Upper
117	100		
119	95.3	76.2	114.2
121	31.7	24.6	36.8





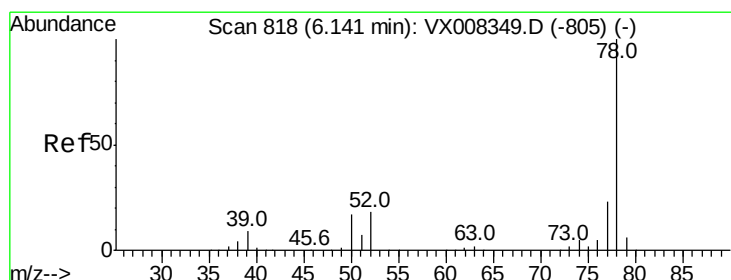
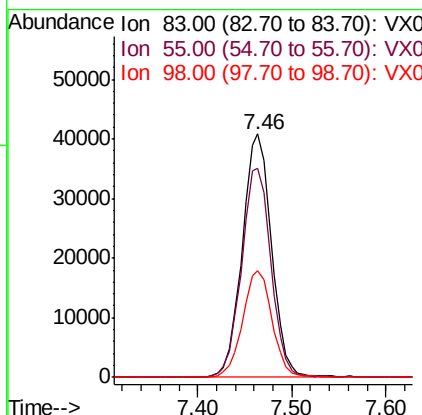
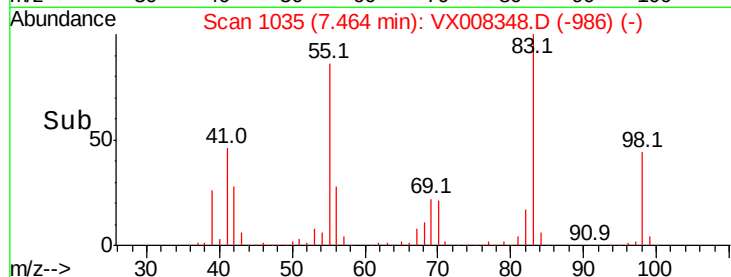
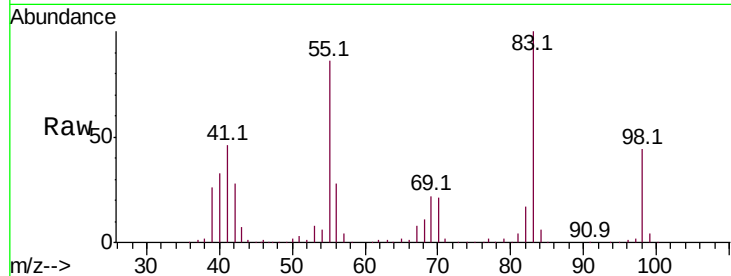
#39
Methylvlcyclohexane
Concen: 17.541 ug/l
RT: 7.46 min Scan# 1035
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
83	100		
55	85.4	60.4	90.6
98	44.0	36.5	54.7

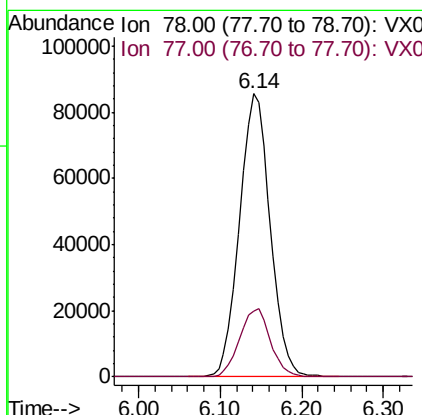
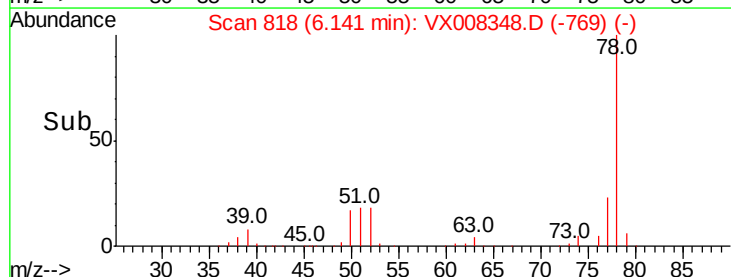
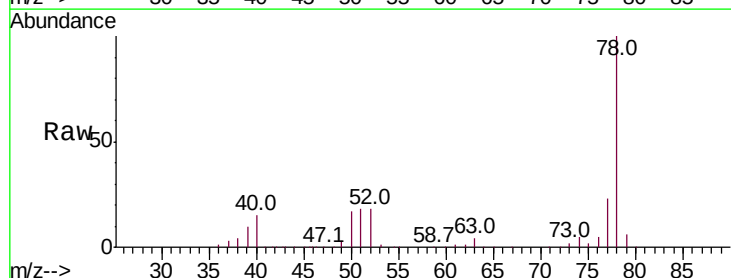
Manual Integrations
APPROVED

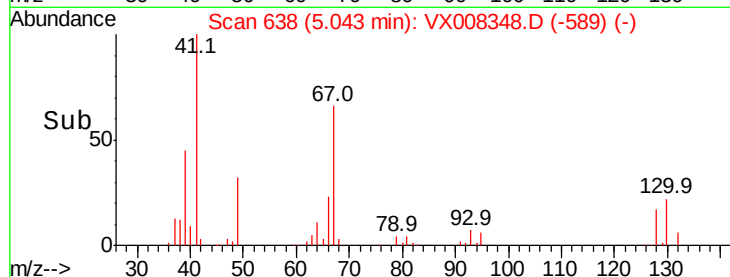
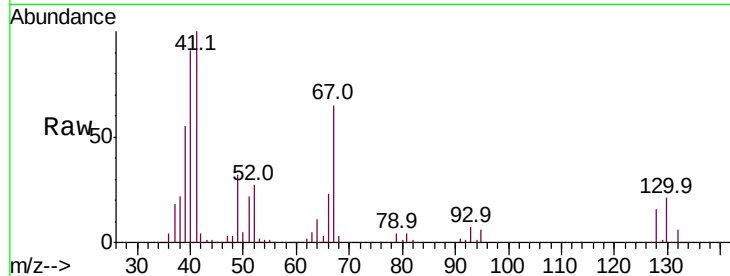
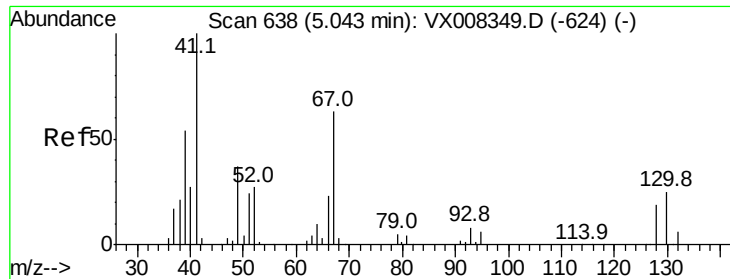
MMDadoda
3/25/2019 11:16:42 AM



#40
Benzene
Concen: 17.917 ug/l
RT: 6.14 min Scan# 818
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	19.0	28.4





#41

Methacrylonitrile

Concen: 19.565 ug/l

RT: 5.04 min Scan# 638

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Tot Ion:	41	Resp:	54715
Ion Ratio	Lower	Upper	
41	100		
39	55.3	41.6	62.4
67	68.4	55.8	83.6
52	28.1	21.7	32.5

Instrument :

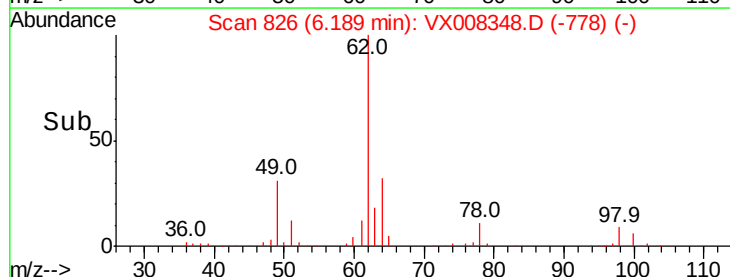
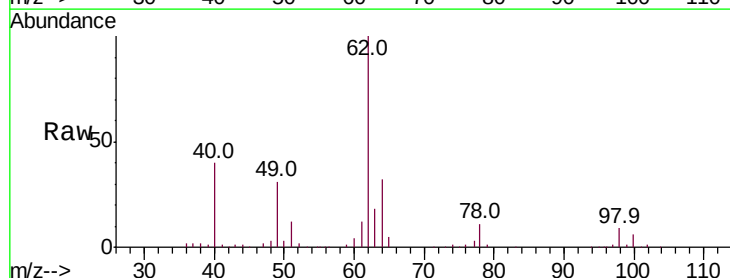
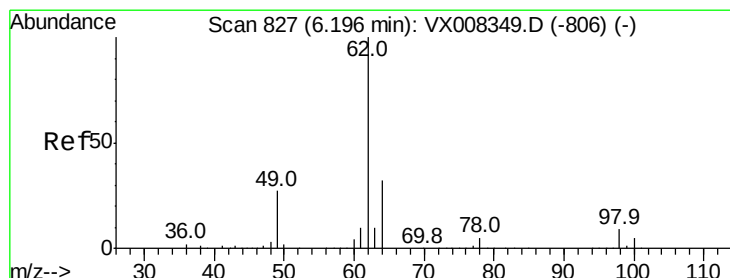
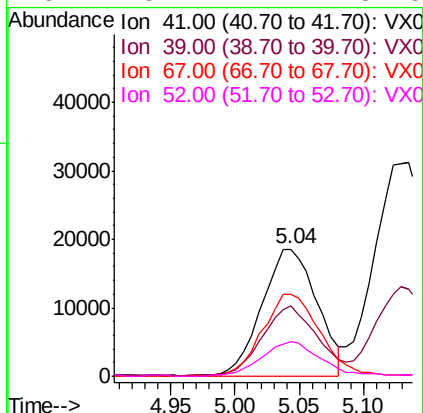
MSVOA_X

ClientSampleId :

VSTDIC020

Manual Integrations
APPROVED

MMDadoda
3/25/2019 11:16:42 AM



#42

1,2-Dichloroethane

Concen: 17.560 ug/l

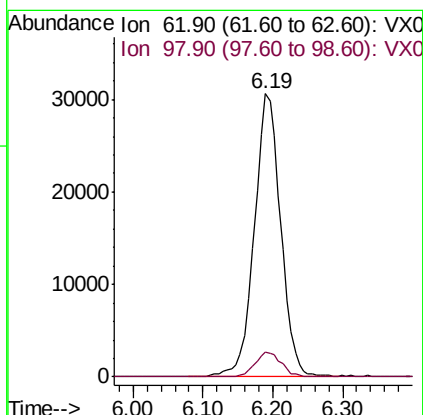
RT: 6.19 min Scan# 826

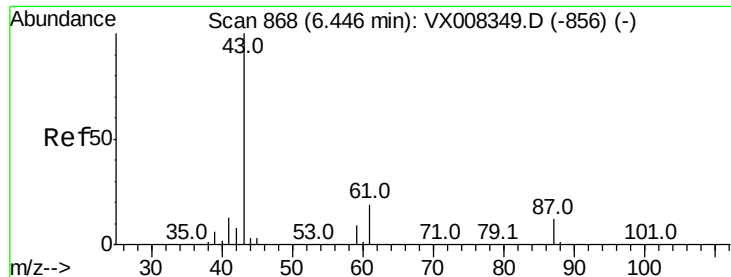
Delta R.T. -0.01 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Tgt Ion:	62	Resp:	80301
Ion Ratio	Lower	Upper	
62	100		
98	8.8	0.0	20.4





#43

Isopropyl Acetate

Concen: 19.514 ug/l

RT: 6.45 min Scan# 868

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

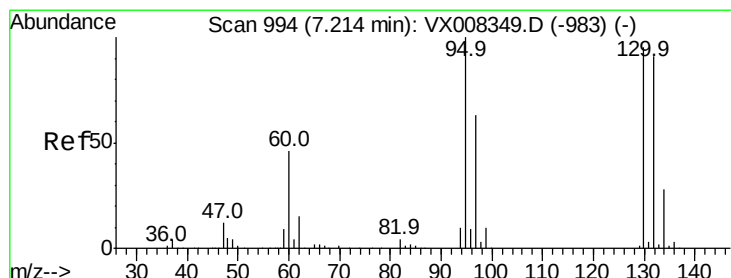
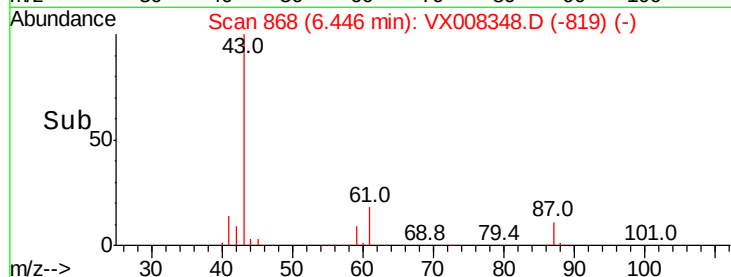
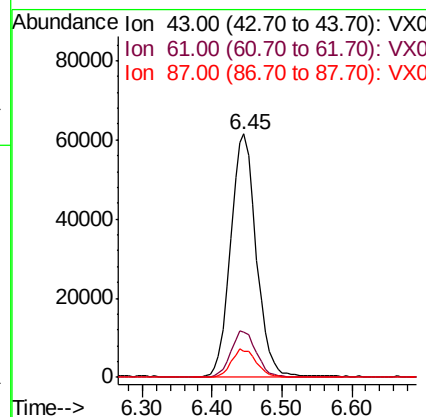
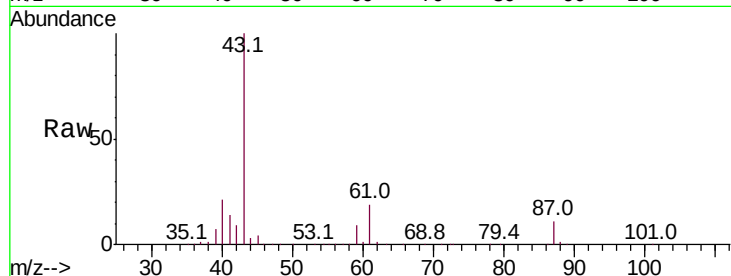
ClientSampleId :

VSTDIC020

Tot Ion:	43	Resp:	155943
Ion	Ratio	Lower	Upper
43	100		
61	19.4	16.3	24.5
87	11.5	10.5	15.7

Manual Integrations
APPROVED

MMDadoda
3/25/2019 11:16:42 AM



#44

Trichloroethene

Concen: 16.479 ug/l

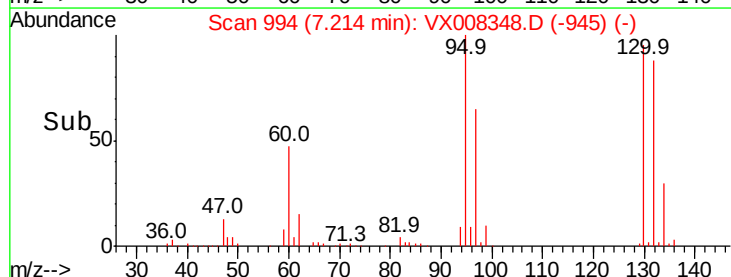
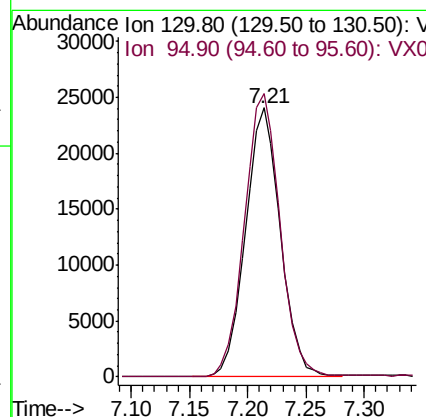
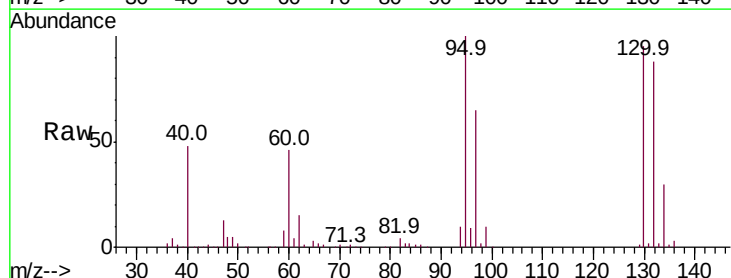
RT: 7.21 min Scan# 994

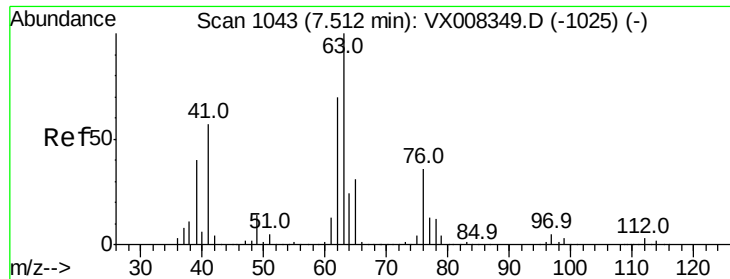
Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Tgt Ion:	130	Resp:	50300
Ion	Ratio	Lower	Upper
130	100		
95	105.2	0.0	188.0





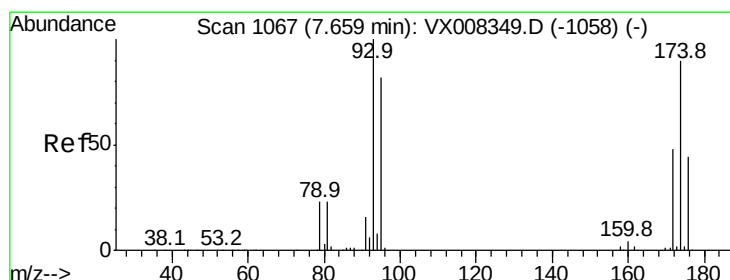
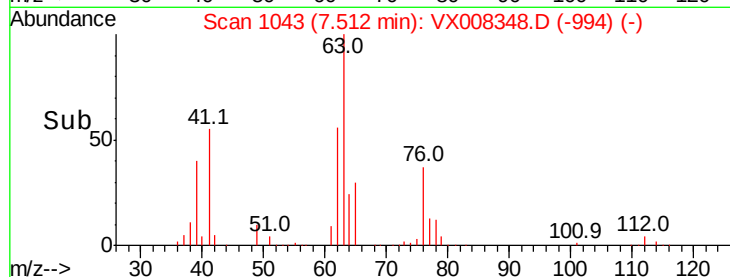
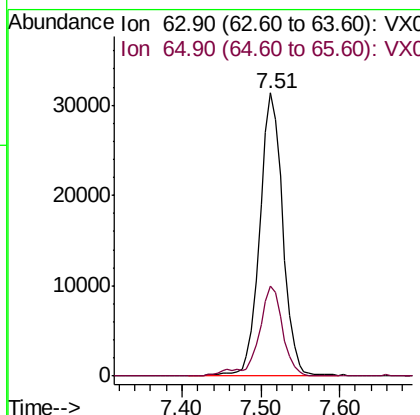
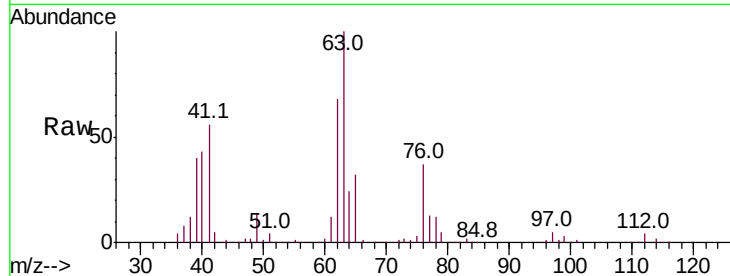
#45
 1,2-Dichloropropane
 Concen: 18.302 ug/l
 RT: 7.51 min Scan# 1043
 Delta R.T. 0.00 min
 Lab File: VX008348.D
 Acq: 23 Mar 2019 13:56

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC020

Tot Ion: 63 Resp: 63957
 Ion Ratio Lower Upper
 63 100
 65 31.7 24.7 37.1

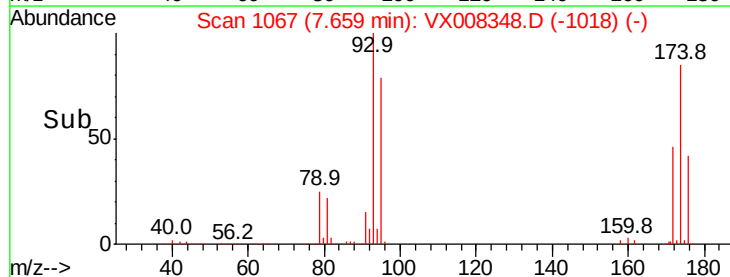
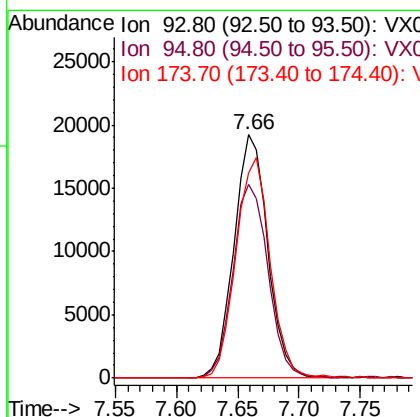
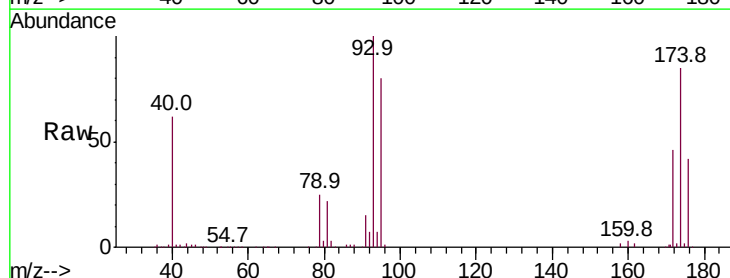
Manual Integrations
 APPROVED

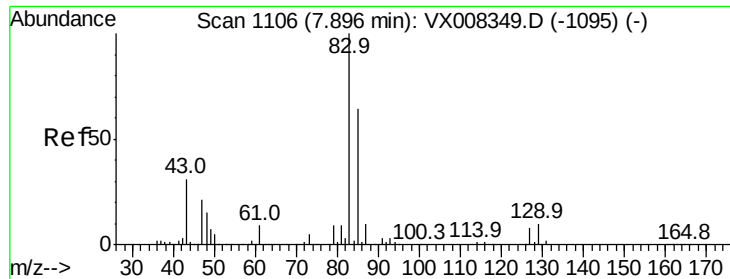
MMDadoda
 3/25/2019 11:16:42 AM



#46
 Dibromomethane
 Concen: 17.405 ug/l
 RT: 7.66 min Scan# 1067
 Delta R.T. 0.00 min
 Lab File: VX008348.D
 Acq: 23 Mar 2019 13:56

Tgt Ion: 93 Resp: 36825
 Ion Ratio Lower Upper
 93 100
 95 82.8 66.8 100.2
 174 92.3 97.3 145.9#





#47

Bromodichloromethane

Concen: 17.795 ug/l

RT: 7.90 min Scan# 1106

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

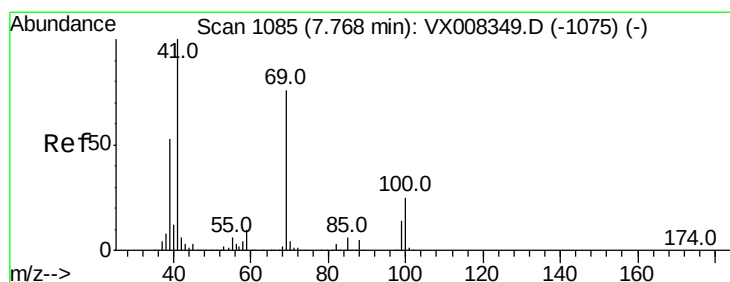
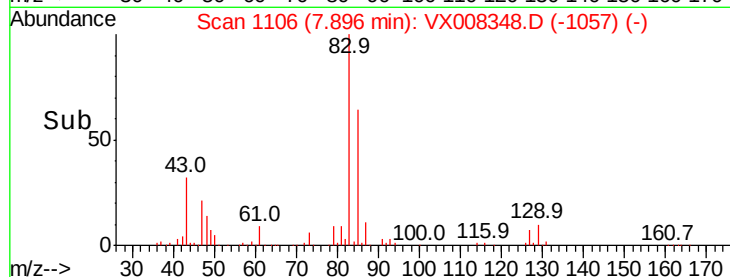
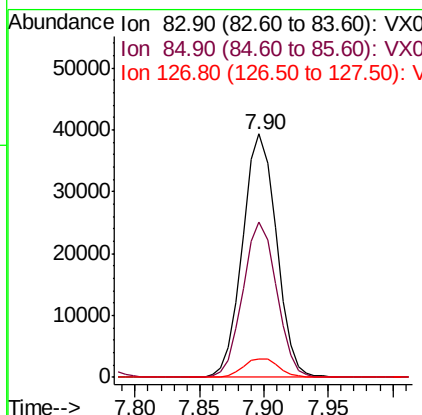
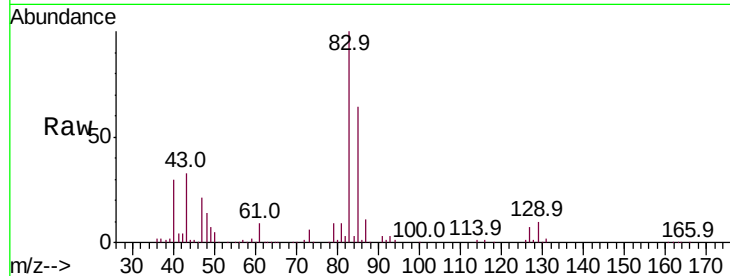
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	71754
Ion	Ratio	Lower	Upper
83	100		
85	63.7	50.9	76.3
127	7.5	7.4	11.0

Manual Integrations
APPROVED

MMDadoda
3/25/2019 11:16:42 AM



#48

Methyl methacrylate

Concen: 18.489 ug/l

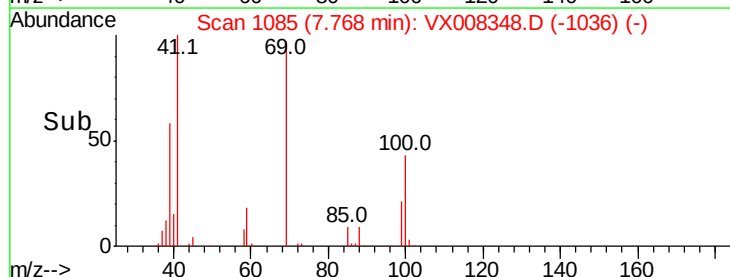
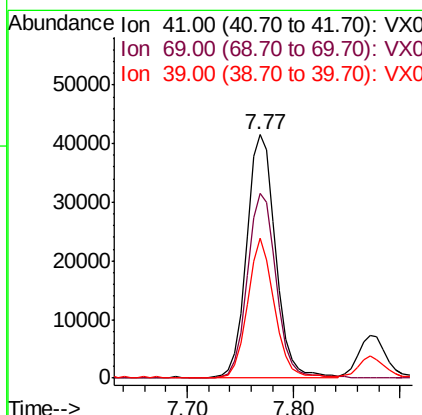
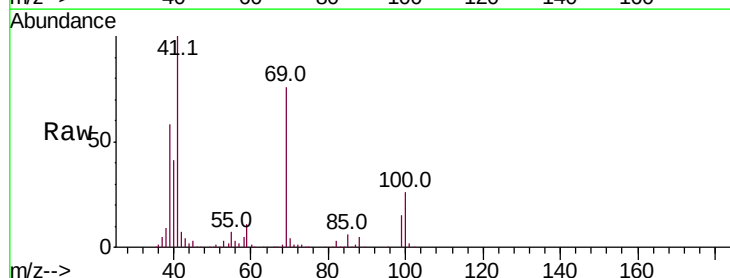
RT: 7.77 min Scan# 1085

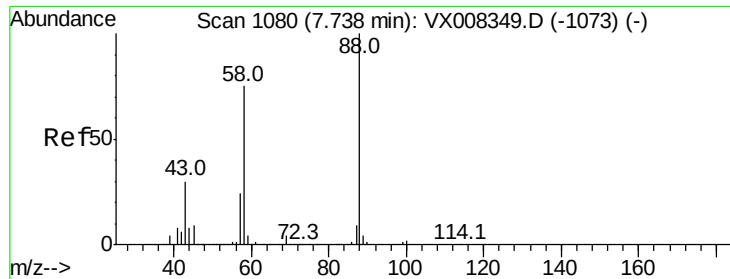
Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Tgt Ion:	41	Resp:	78562
Ion	Ratio	Lower	Upper
41	100		
69	76.6	65.2	97.8
39	53.0	39.4	59.2





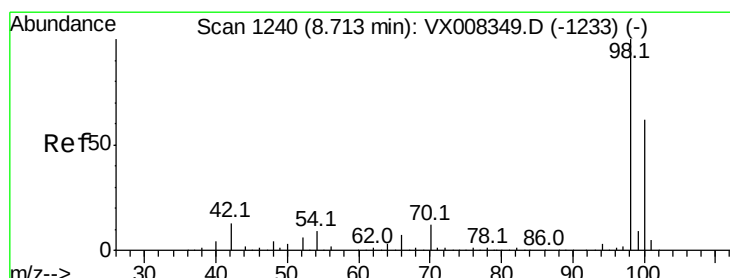
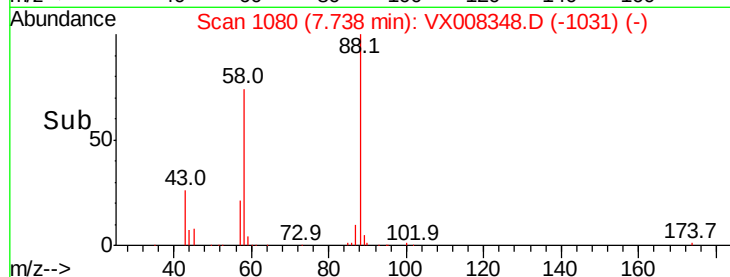
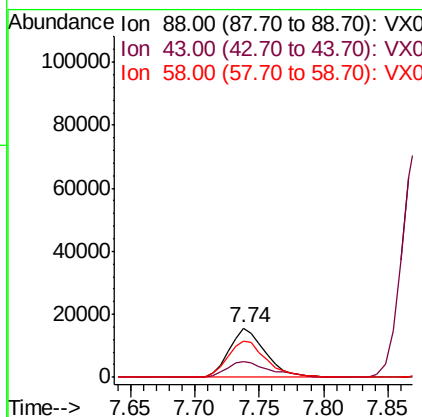
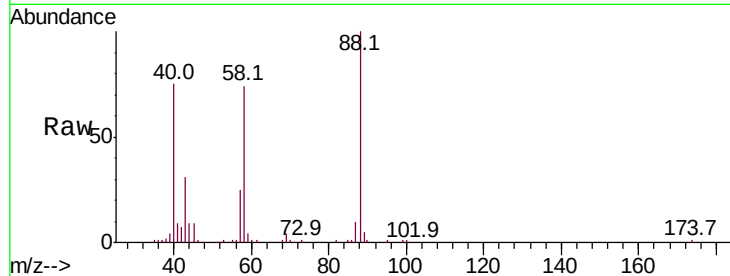
#49
1,4-Dioxane
Concen: 406.570 ug/l
RT: 7.74 min Scan# 1080
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	36.8	25.1	37.7
58	79.8	57.8	86.6

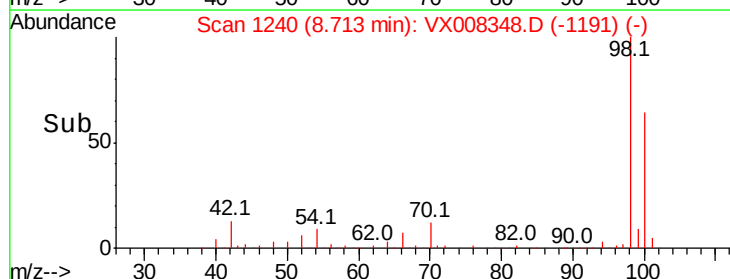
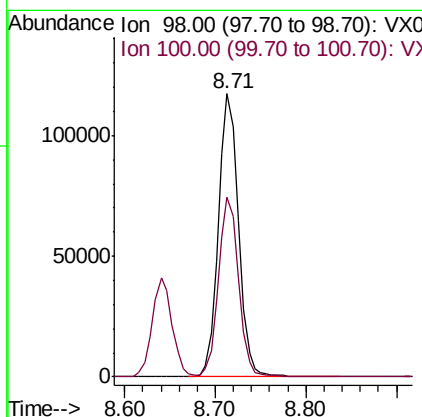
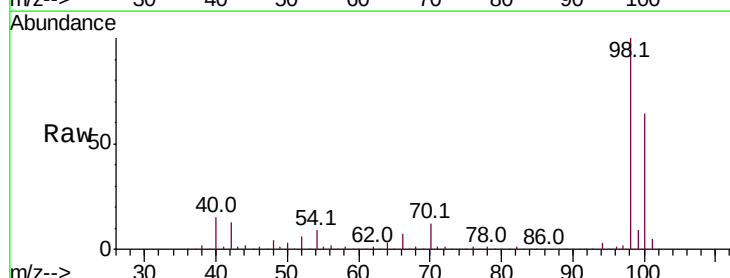
Manual Integrations
APPROVED

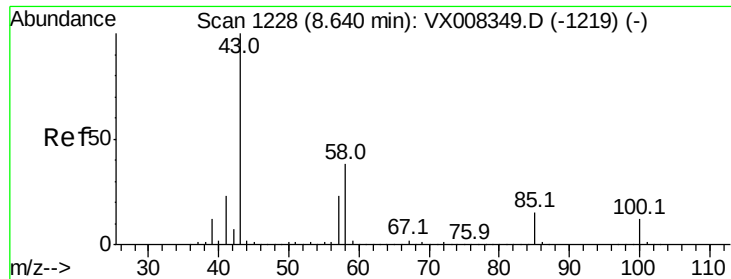
MMDadoda
3/25/2019 11:16:42 AM



#50
Toluene-d8
Concen: 19.753 ug/l
RT: 8.71 min Scan# 1240
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.9	51.7	77.5





#51

4-Methyl-2-Pentanone

Concen: 100.508 ug/l

RT: 8.64 min Scan# 1228

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 43 Resp: 519264

Ion Ratio Lower Upper

43 100

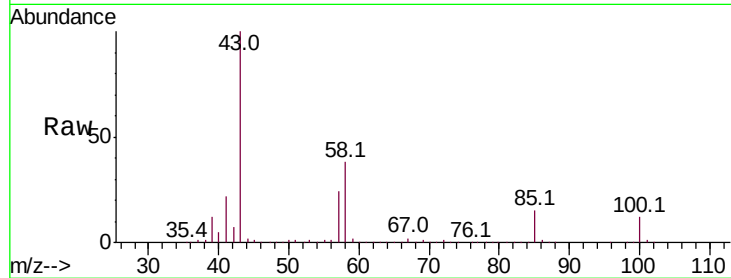
58 36.9 31.3 46.9

Manual Integrations

APPROVED

MMDadoda

3/25/2019 11:16:42 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0

8.64

300000

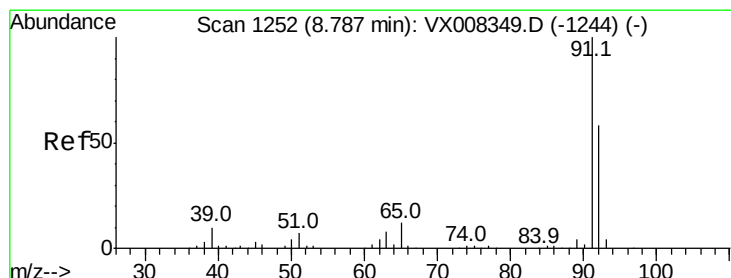
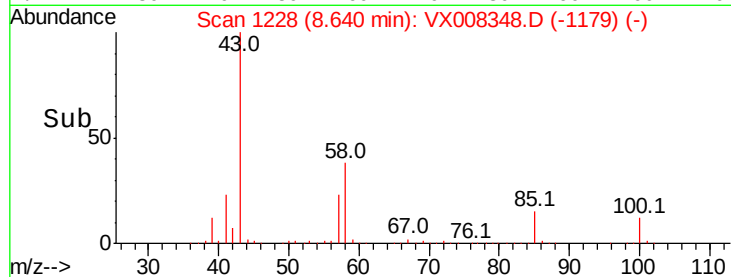
200000

100000

0

8.50 8.60 8.70 8.80

Time-->



#52

Toluene

Concen: 17.672 ug/l

RT: 8.79 min Scan# 1252

Delta R.T. 0.00 min

Lab File: VX008348.D

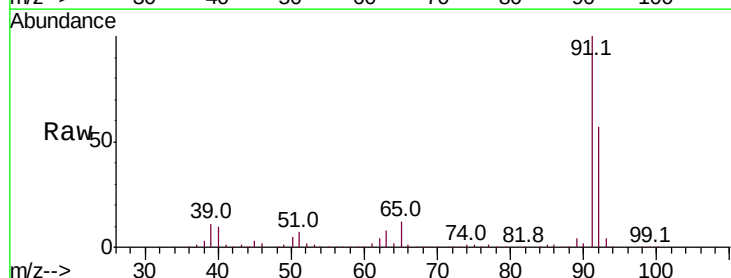
Acq: 23 Mar 2019 13:56

Tgt Ion: 92 Resp: 130876

Ion Ratio Lower Upper

92 100

91 176.0 137.4 206.0



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0

150000

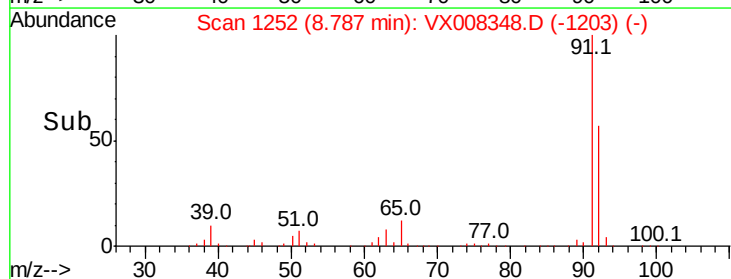
100000

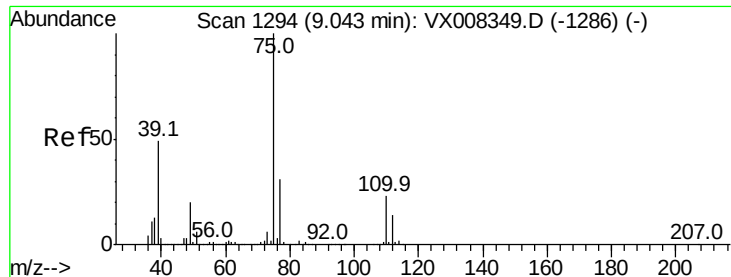
50000

0

8.70 8.80 8.90

Time-->





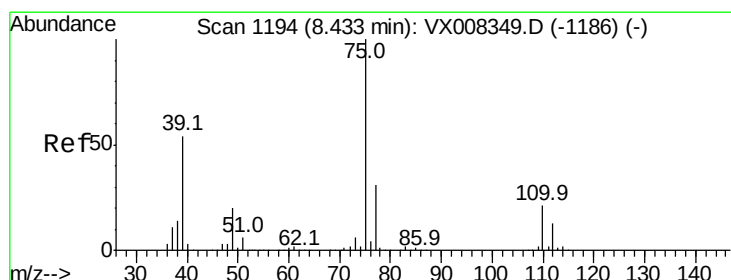
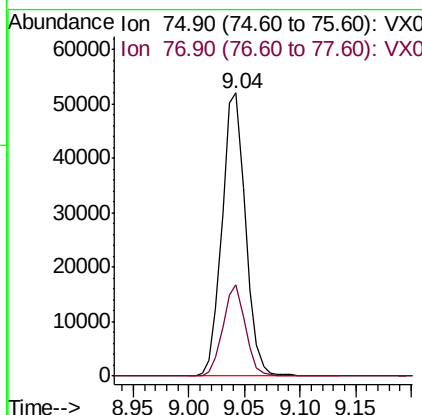
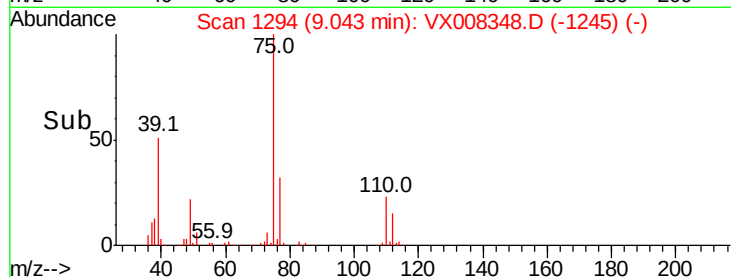
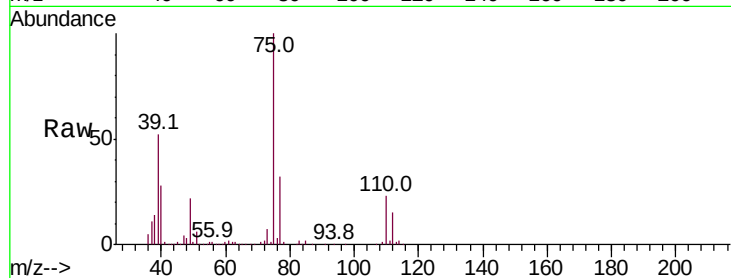
#53
t-1,3-Dichloropropene
Concen: 16.957 ug/l
RT: 9.04 min Scan# 1294
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion: 75 Resp: 76523
Ion Ratio Lower Upper
75 100
77 32.4 25.4 38.0

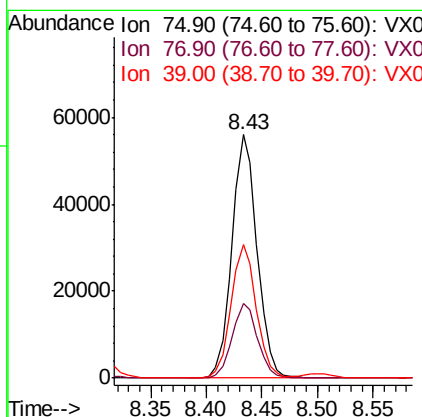
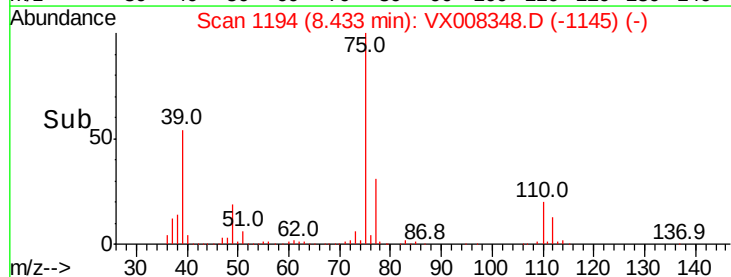
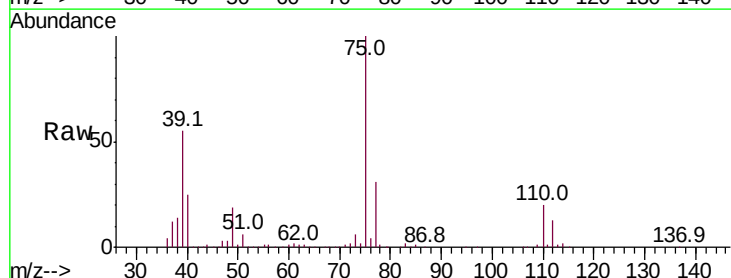
Manual Integrations
APPROVED

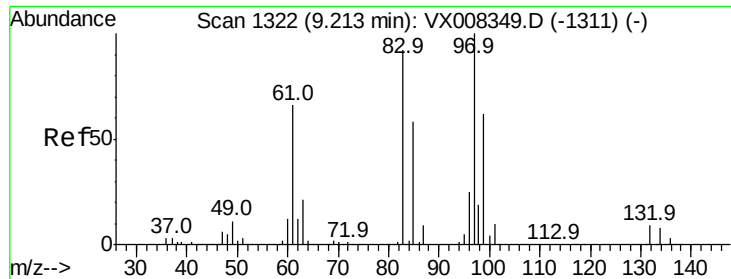
MMDadoda
3/25/2019 11:16:42 AM



#54
cis-1,3-Dichloropropene
Concen: 17.526 ug/l
RT: 8.43 min Scan# 1194
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion: 75 Resp: 87707
Ion Ratio Lower Upper
75 100
77 30.9 25.0 37.6
39 54.4 36.6 54.8





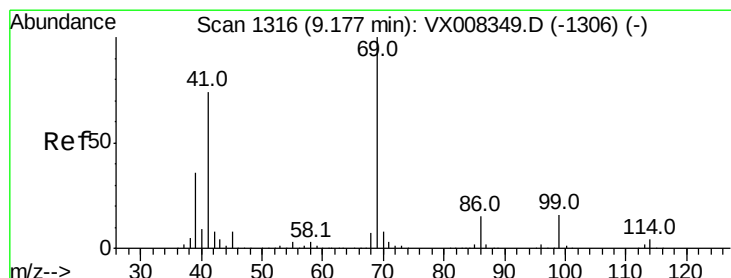
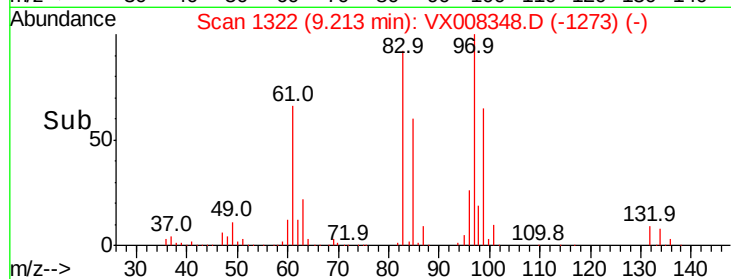
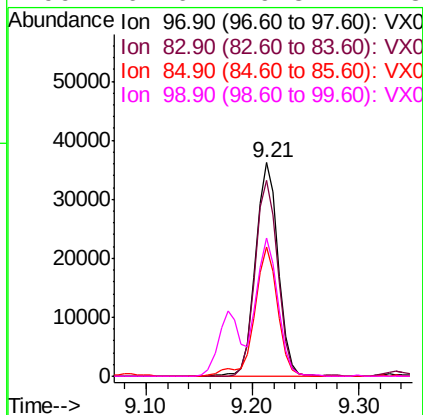
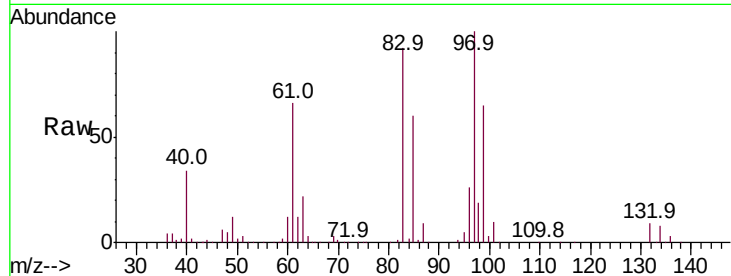
#55
1,1,2-Trichloroethane
Concen: 18.138 ug/l
RT: 9.21 min Scan# 1322
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampled :
VSTDIC020

Tot Ion:	97	Resp:	54271
Ion	Ratio	Lower	Upper
97	100		
83	91.5	69.1	103.7
85	60.3	44.3	66.5
99	64.6	49.8	74.8

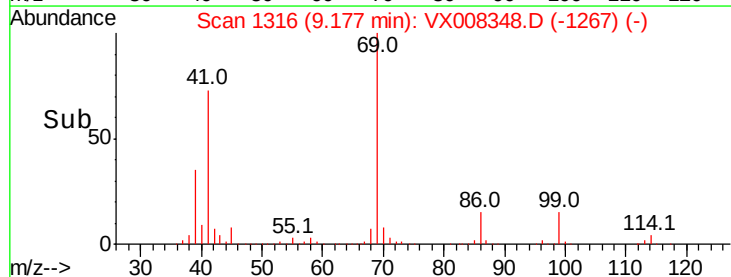
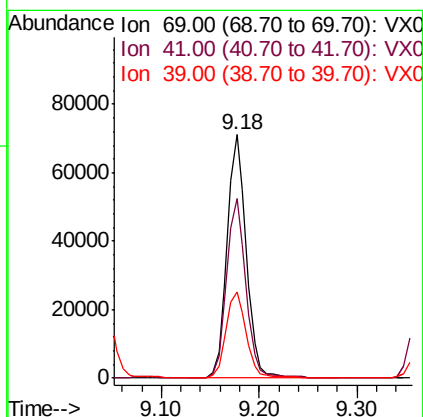
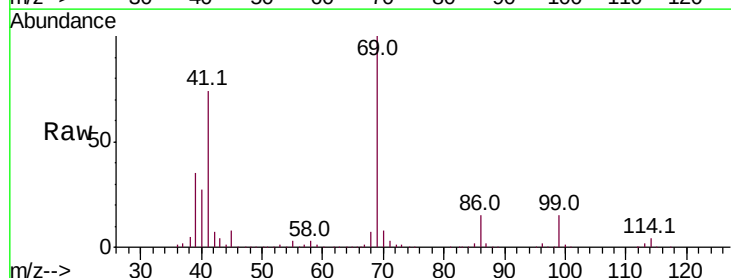
Manual Integrations
APPROVED

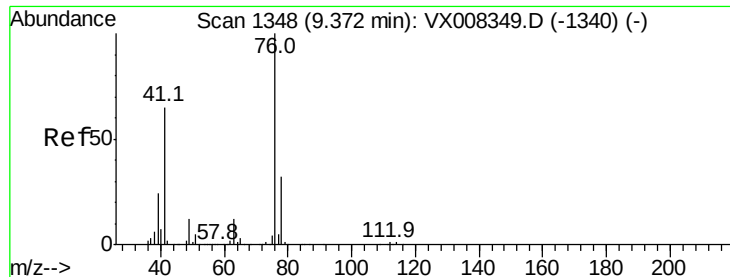
MMDadoda
3/25/2019 11:16:42 AM



#56
Ethyl methacrylate
Concen: 20.401 ug/l
RT: 9.18 min Scan# 1316
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion:	69	Resp:	97648
Ion	Ratio	Lower	Upper
69	100		
41	73.8	54.2	81.4
39	37.1	25.0	37.4





#57

1,3-Dichloropropane

Concen: 18.401 ug/l

RT: 9.37 min Scan# 1348

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 76 Resp: 97399

Ion Ratio Lower Upper

76 100

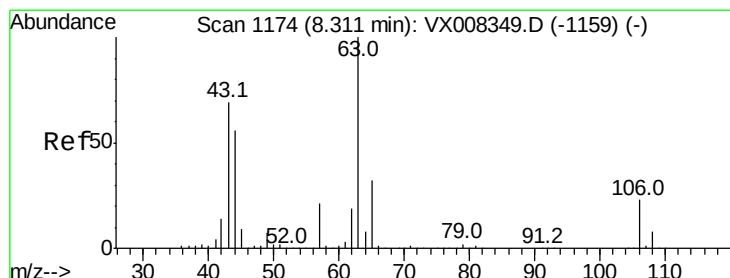
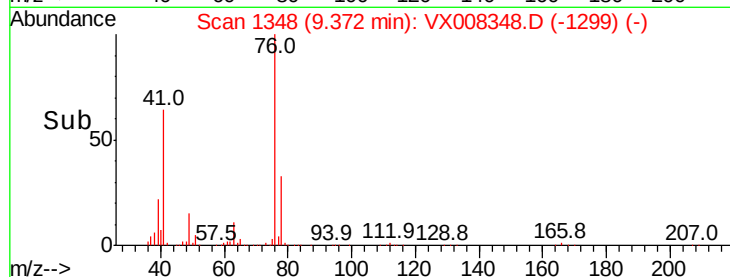
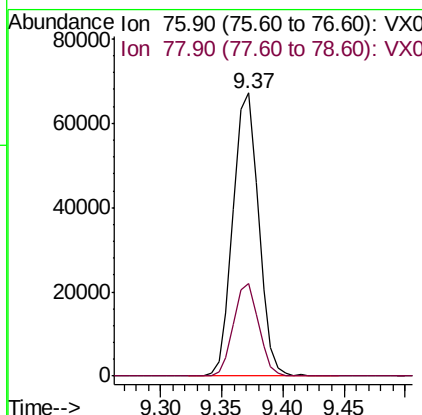
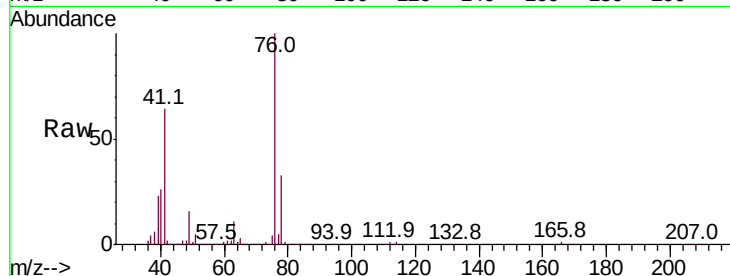
78 32.4 25.5 38.3

Manual Integrations

APPROVED

MMDadoda

3/25/2019 11:16:42 AM



#58

2-Chloroethyl Vinyl ether

Concen: 107.939 ug/l

RT: 8.31 min Scan# 1174

Delta R.T. 0.00 min

Lab File: VX008348.D

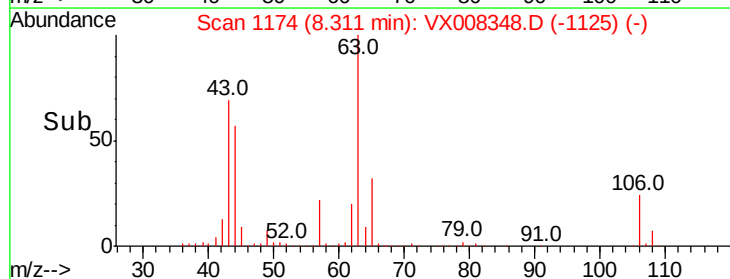
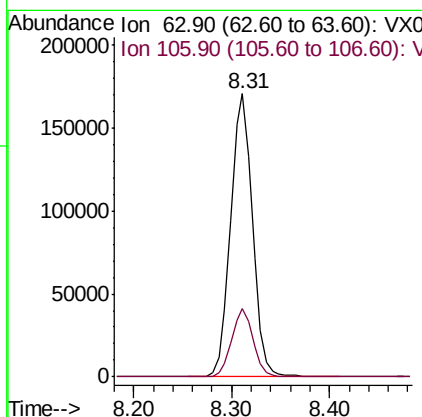
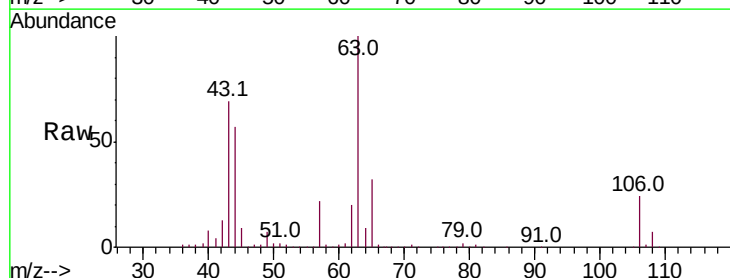
Acq: 23 Mar 2019 13:56

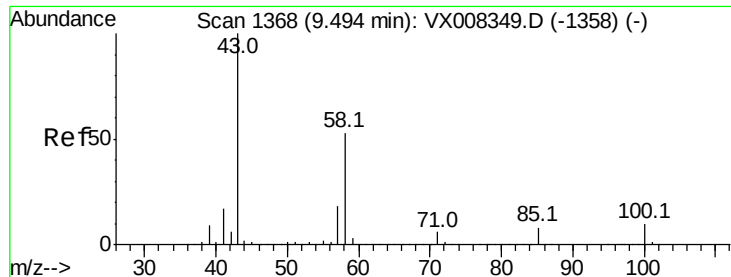
Tgt Ion: 63 Resp: 264622

Ion Ratio Lower Upper

63 100

106 23.5 22.2 33.2





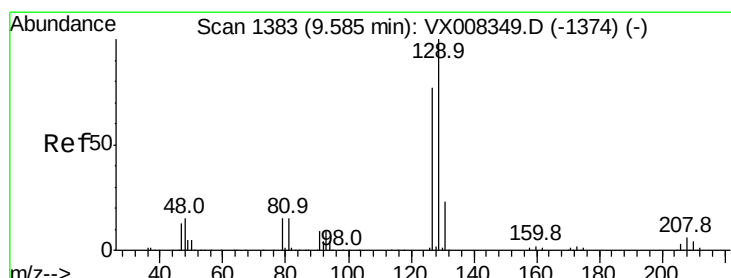
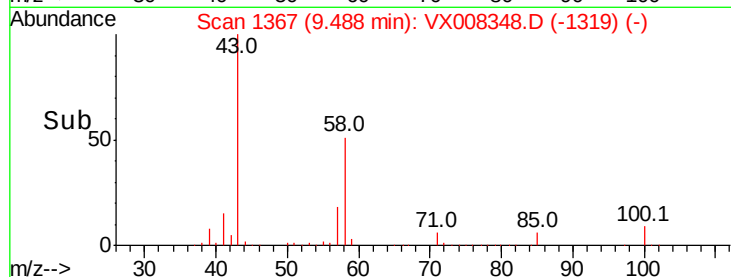
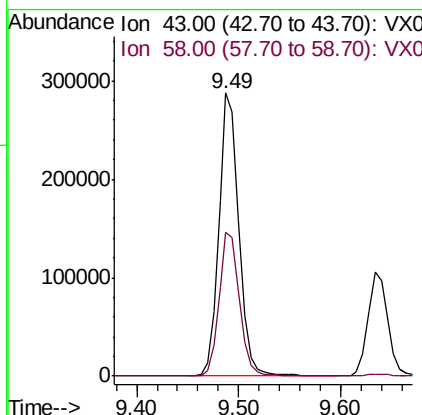
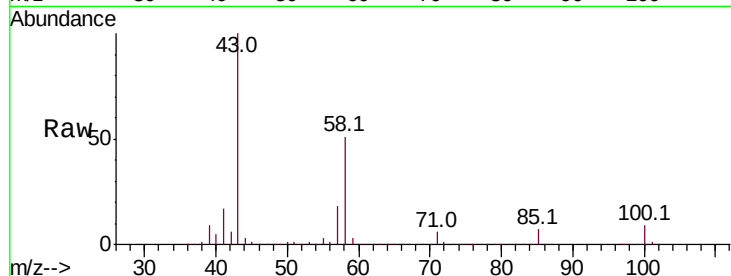
#59
2-Hexanone
Concen: 99.311 ug/l
RT: 9.49 min Scan# 1367
Delta R.T. -0.01 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion: 43 Resp: 395010
Ion Ratio Lower Upper
43 100
58 51.9 27.6 82.7

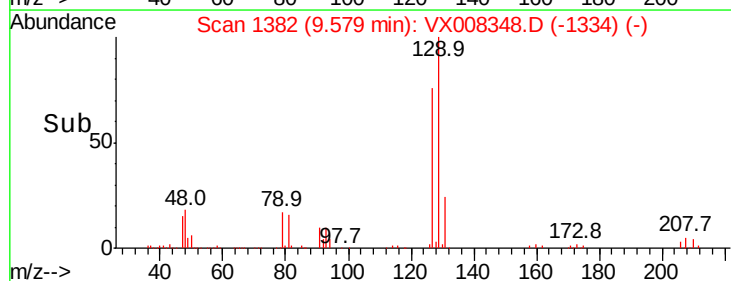
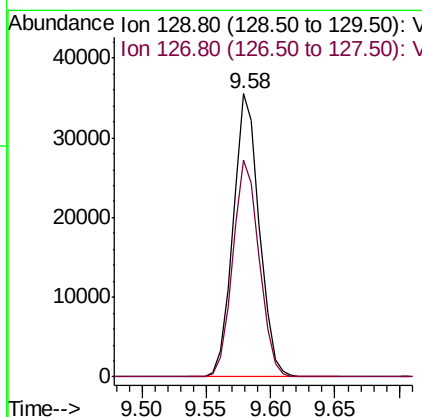
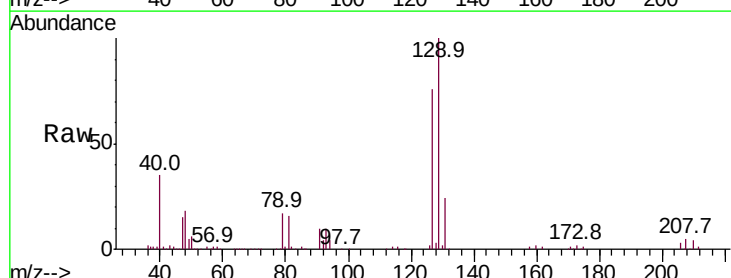
Manual Integrations
APPROVED

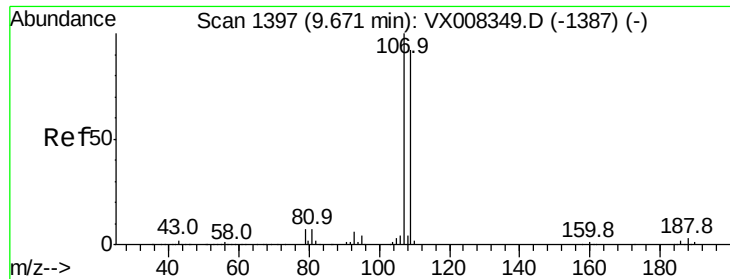
MMDadoda
3/25/2019 11:16:42 AM



#60
Dibromochloromethane
Concen: 17.440 ug/l
RT: 9.58 min Scan# 1382
Delta R.T. -0.01 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion: 129 Resp: 50151
Ion Ratio Lower Upper
129 100
127 77.5 38.3 114.8





#61

1,2-Dibromoethane

Concen: 17.977 ug/l

RT: 9.67 min Scan# 1397

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:107 Resp: 56165

Ion Ratio Lower Upper

107 100

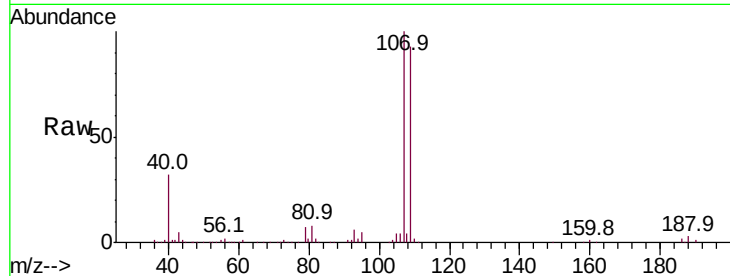
109 93.6 75.8 113.8

Manual Integrations

APPROVED

MMDadoda

3/25/2019 11:16:42 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.67

40000

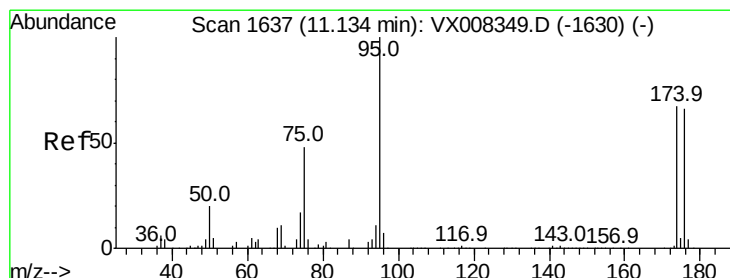
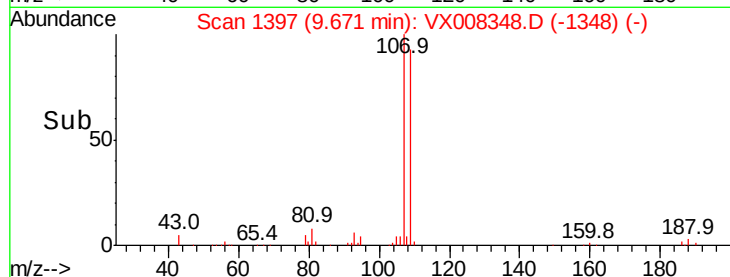
30000

20000

10000

0

Time--> 9.60 9.70 9.80



#62

4-Bromofluorobenzene

Concen: 20.266 ug/l

RT: 11.13 min Scan# 1637

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

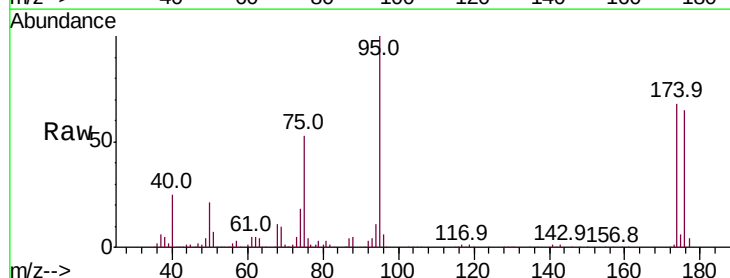
Tgt Ion: 95 Resp: 64157

Ion Ratio Lower Upper

95 100

174 73.3 0.0 182.8

176 69.3 0.0 178.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.13

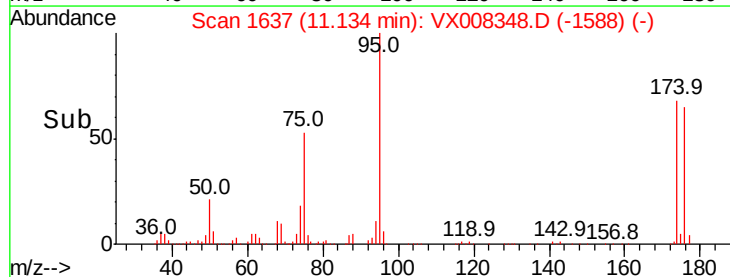
60000

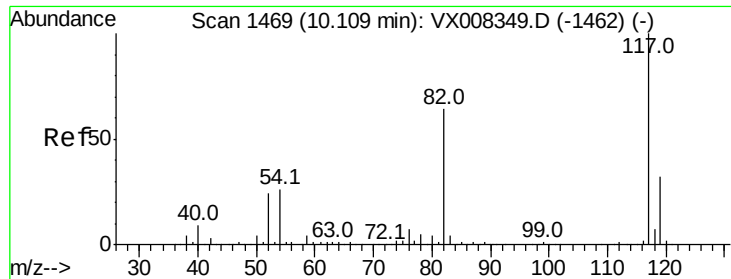
40000

20000

0

Time--> 11.05 11.10 11.15 11.20





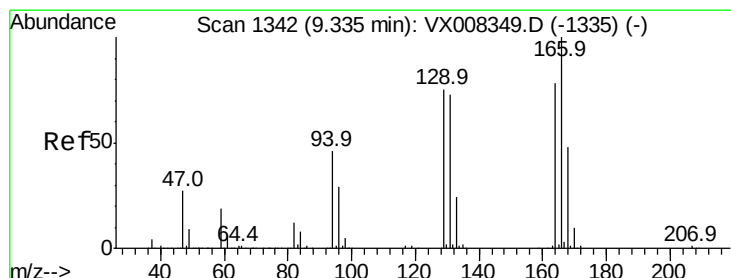
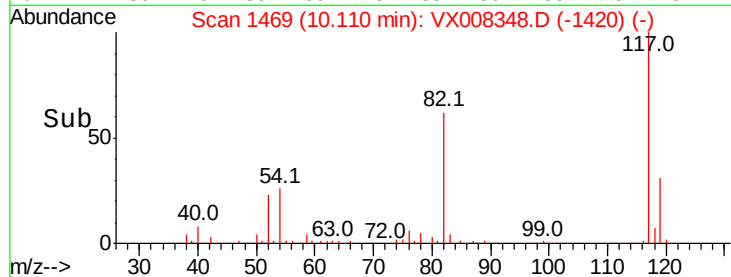
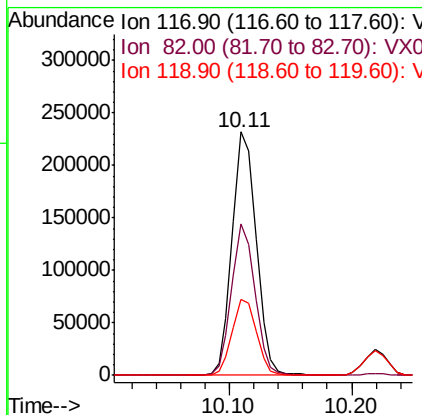
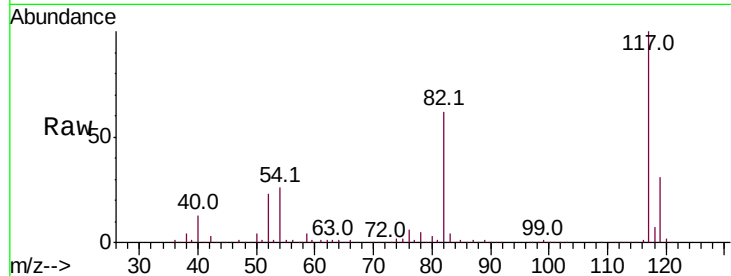
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 10.11 min Scan# 1469
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
117	100	316727		
82	62.2	44.3	66.5	
119	31.4	25.3	37.9	

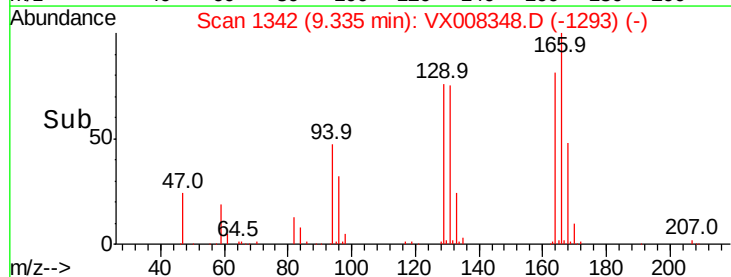
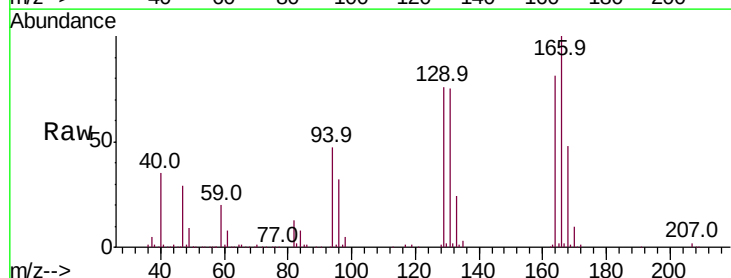
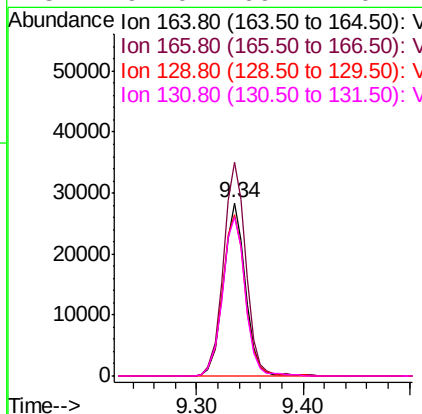
Manual Integrations
APPROVED

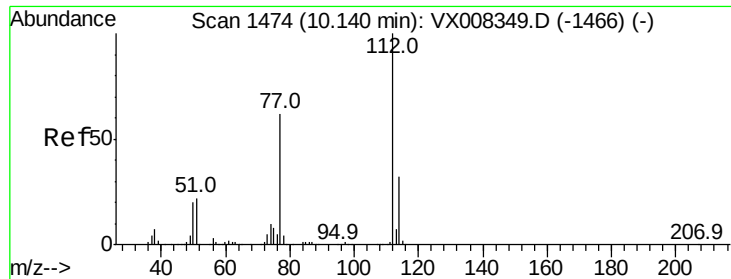
MMDadoda
3/25/2019 11:16:42 AM



#64
Tetrachloroethene
Concen: 14.269 ug/l
RT: 9.34 min Scan# 1342
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Resp	Lower	Upper
164	100	40773		
166	123.4	103.4	155.0	
129	93.4	72.2	108.4	
131	92.0	69.4	104.2	





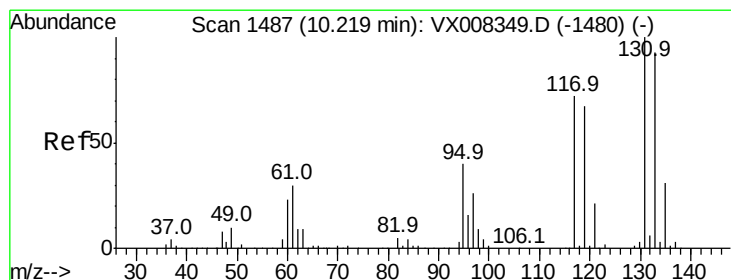
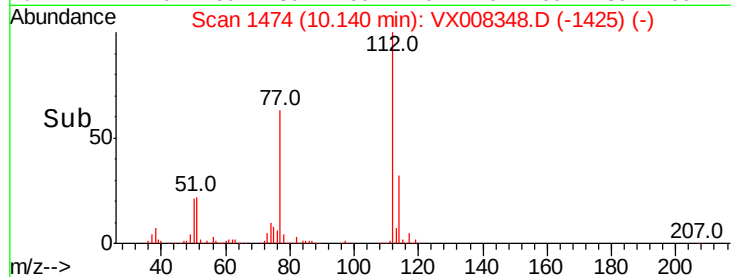
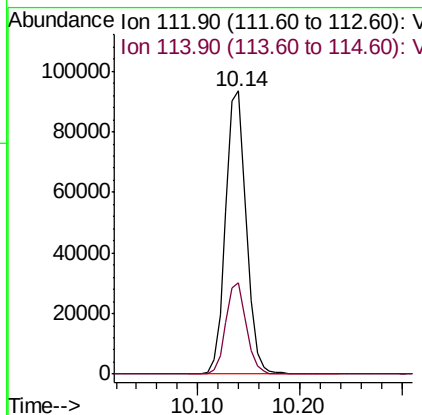
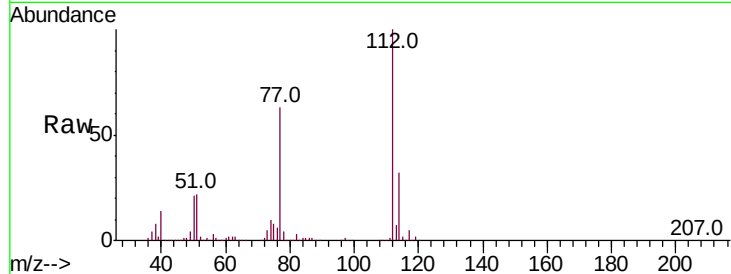
#65
Chlorobenzene
Concen: 16.838 ug/l
RT: 10.14 min Scan# 1474
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampled :
VSTDIC020

Tot Ion:112 Resp: 131222
Ion Ratio Lower Upper
112 100
114 32.4 26.0 39.0

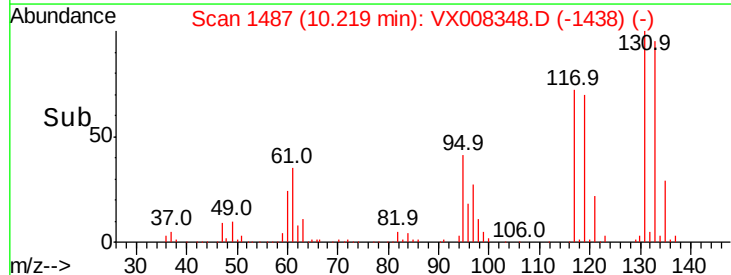
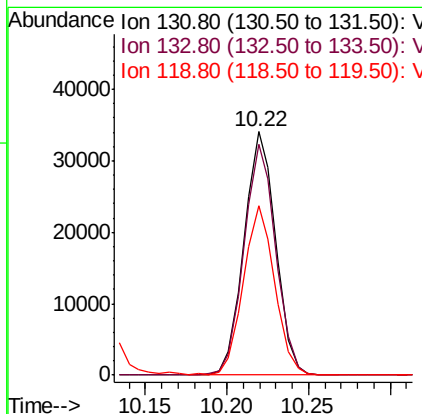
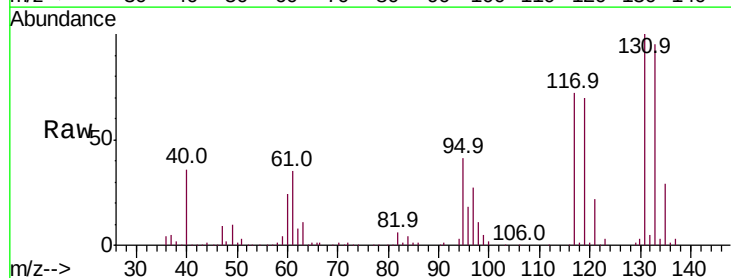
Manual Integrations
APPROVED

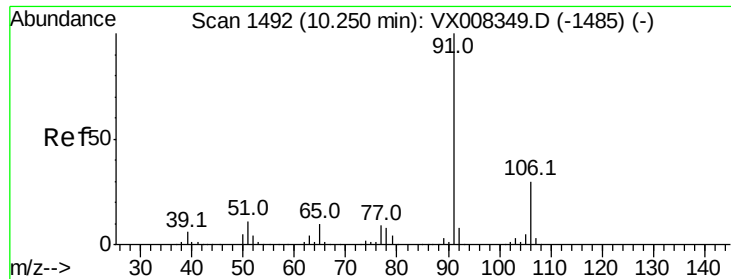
MMDadoda
3/25/2019 11:16:42 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 16.938 ug/l
RT: 10.22 min Scan# 1487
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion:131 Resp: 46024
Ion Ratio Lower Upper
131 100
133 95.5 47.8 143.3
119 69.3 32.5 97.5





#67

Ethyl Benzene

Concen: 18.129 ug/l

RT: 10.25 min Scan# 1492

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion: 91 Resp: 248981

Ion Ratio Lower Upper

91 100

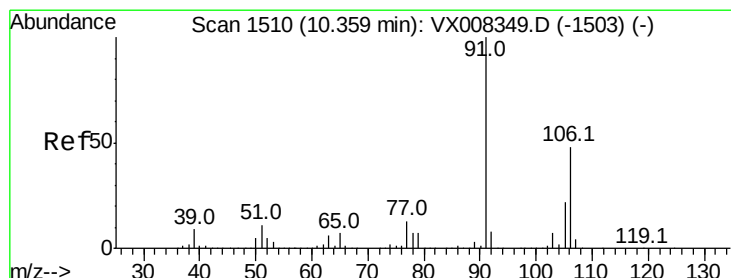
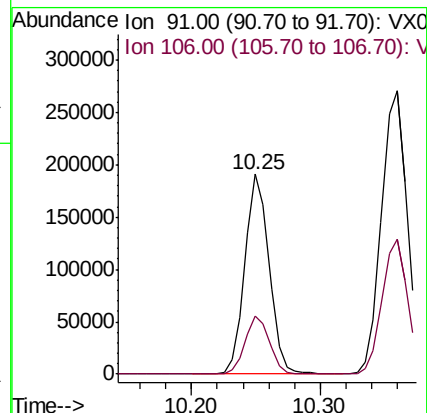
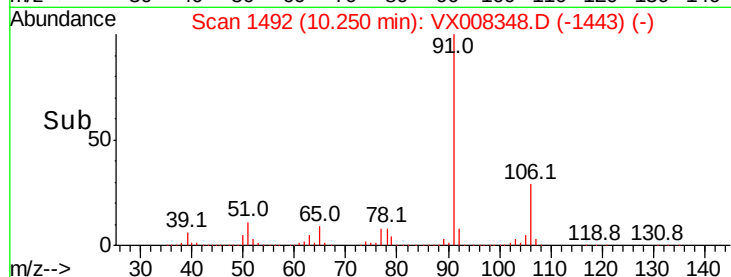
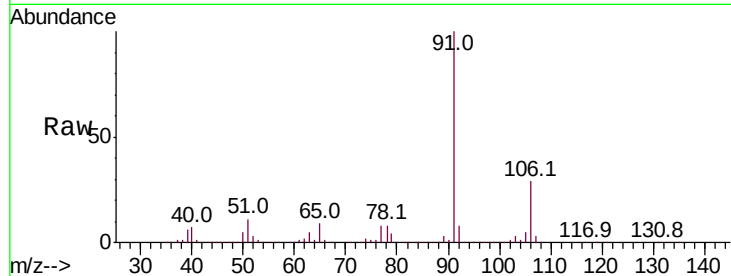
106 29.0 25.2 37.8

Manual Integrations

APPROVED

MMDadoda

3/25/2019 11:16:42 AM



#68

m/p-Xylenes

Concen: 35.344 ug/l

RT: 10.36 min Scan# 1510

Delta R.T. 0.00 min

Lab File: VX008348.D

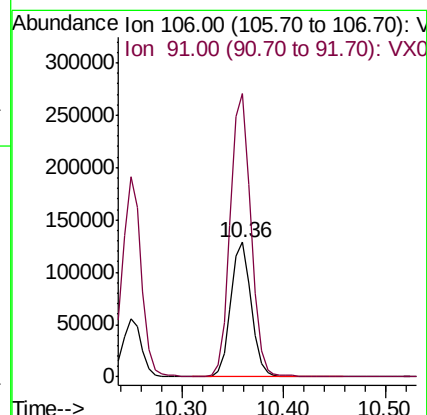
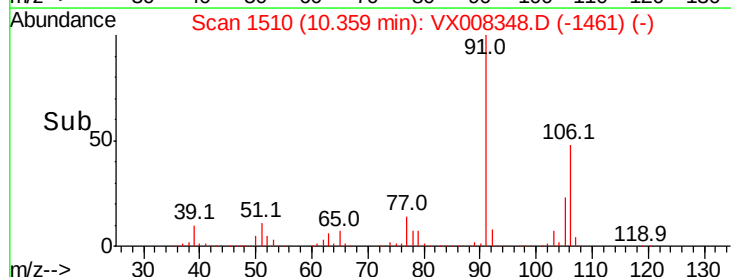
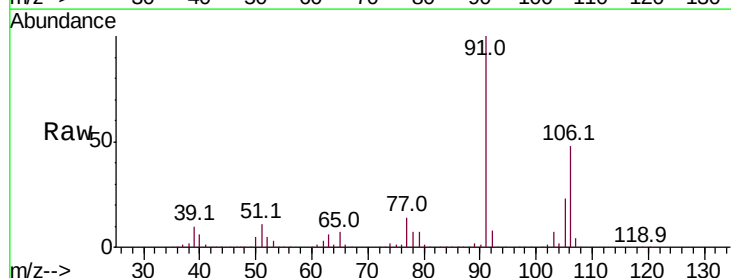
Acq: 23 Mar 2019 13:56

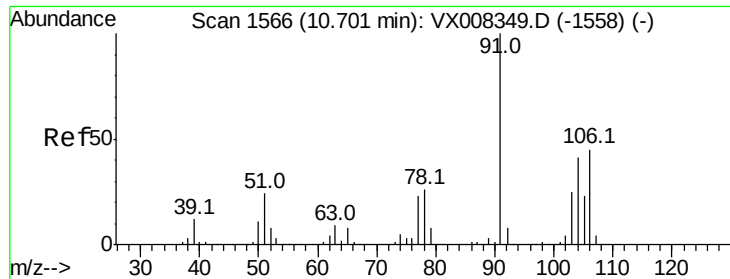
Tgt Ion: 106 Resp: 178305

Ion Ratio Lower Upper

106 100

91 211.6 159.8 239.6





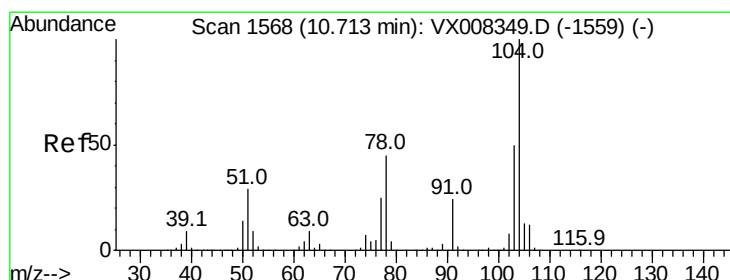
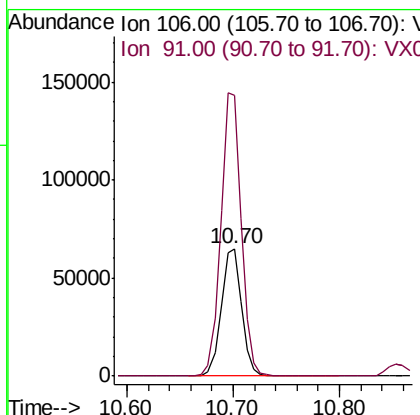
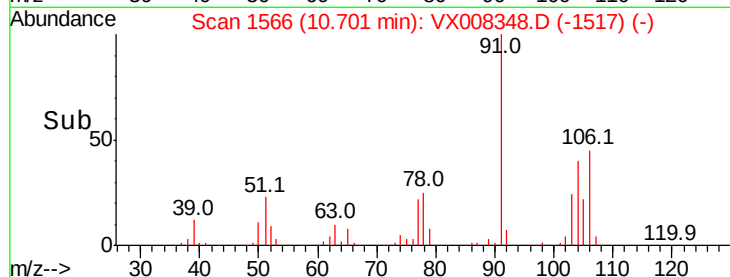
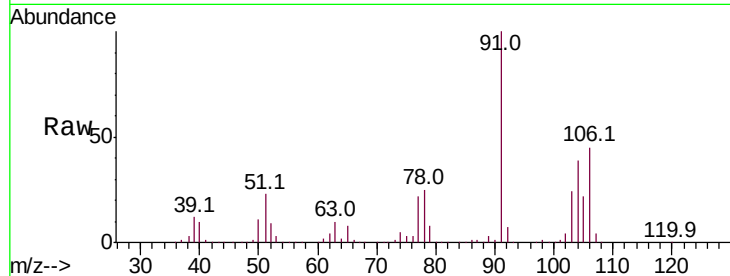
#69
o-Xylene
Concen: 17.670 ug/l
RT: 10.70 min Scan# 1566
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion:106 Resp: 86621
Ion Ratio Lower Upper
106 100
91 223.6 106.3 318.9

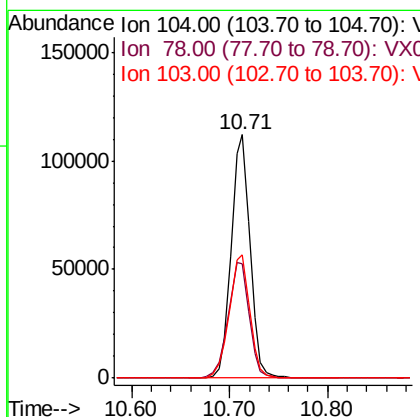
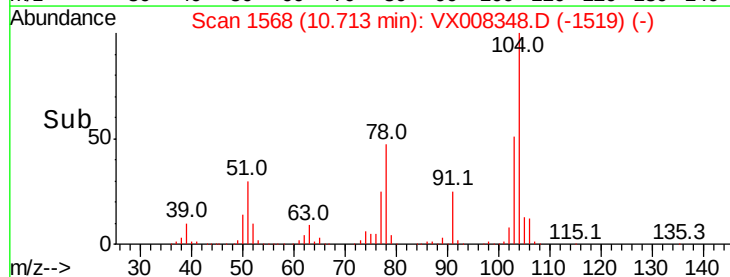
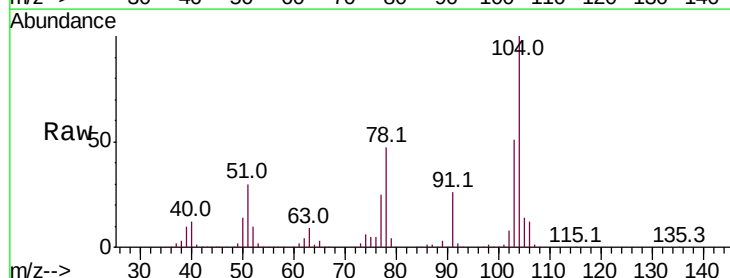
Manual Integrations
APPROVED

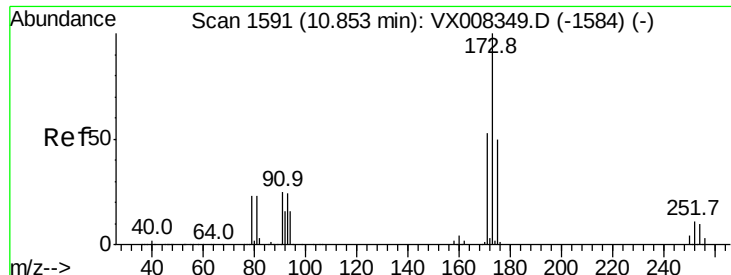
MMDadoda
3/25/2019 11:16:42 AM



#70
Styrene
Concen: 18.800 ug/l
RT: 10.71 min Scan# 1568
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion:104 Resp: 149775
Ion Ratio Lower Upper
104 100
78 53.3 38.5 57.7
103 55.4 44.1 66.1





#71

Bromoform

Concen: 16.732 ug/l

RT: 10.85 min Scan# 1591

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:173 Resp: 34584

Ion Ratio Lower Upper

173 100

175 48.5 24.3 72.9

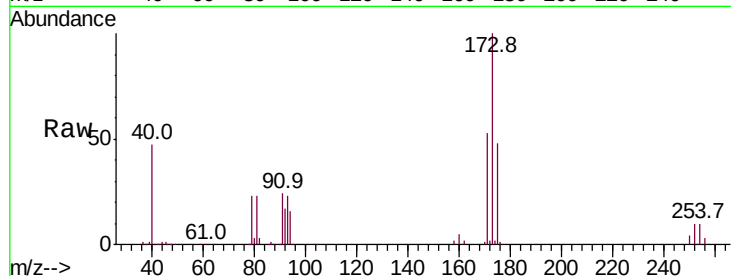
254 0.1 0.1 0.1#

Manual Integrations

APPROVED

MMDadoda

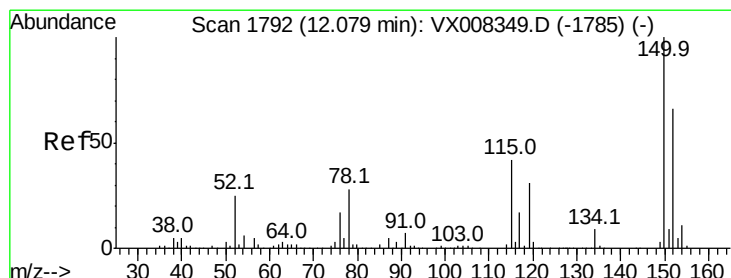
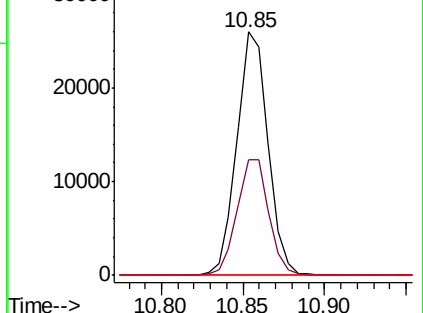
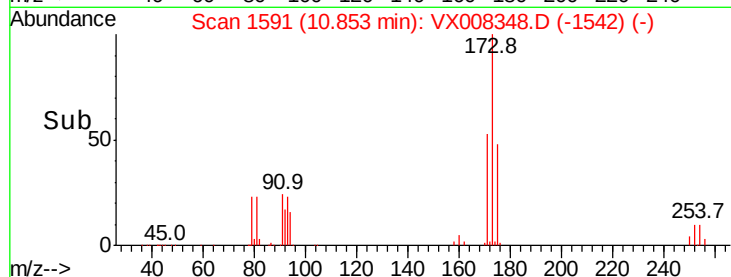
3/25/2019 11:16:42 AM



Abundance Ion 172.70 (172.40 to 173.40): V

Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

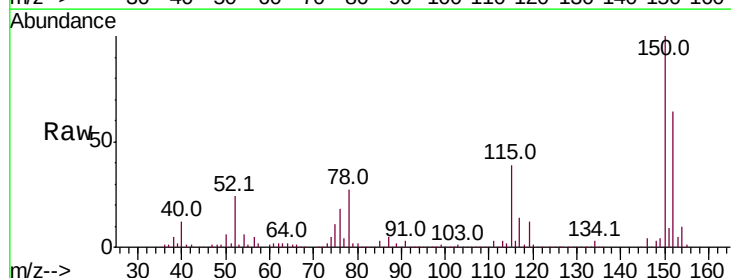
Tgt Ion:152 Resp: 142025

Ion Ratio Lower Upper

152 100

115 72.0 38.6 115.7

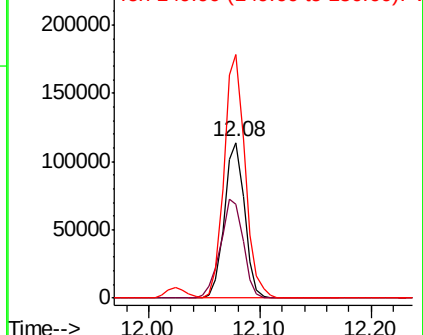
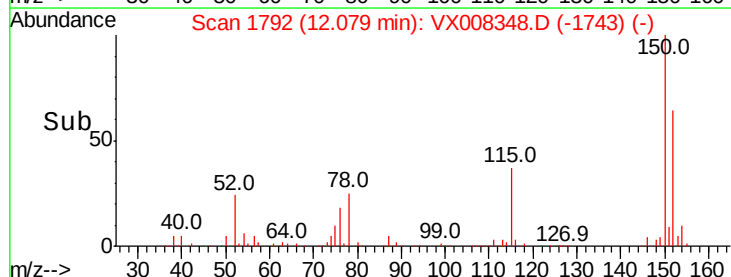
150 163.2 0.0 348.4

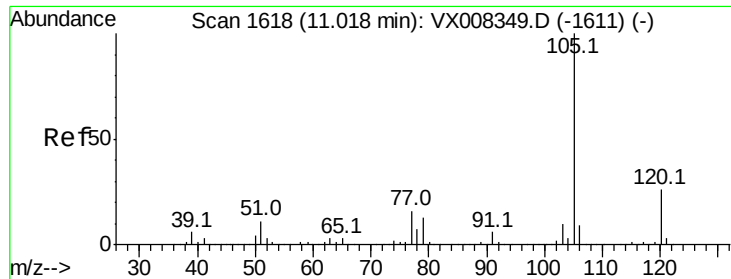


Abundance Ion 151.90 (151.60 to 152.60): V

Ion 114.90 (114.60 to 115.60): V

Ion 149.90 (149.60 to 150.60): V





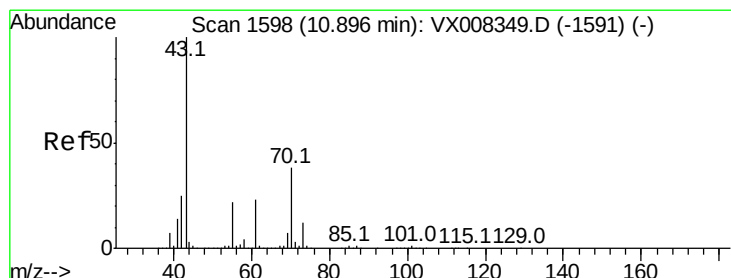
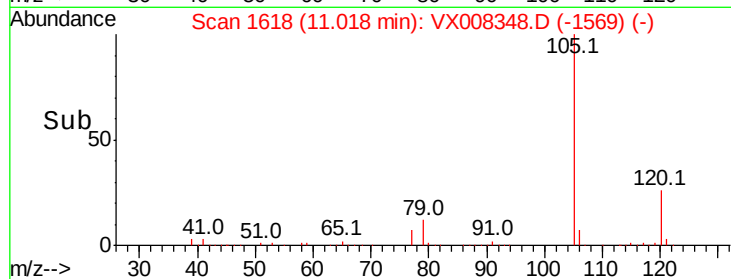
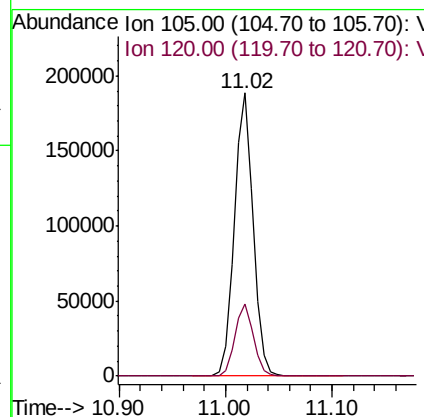
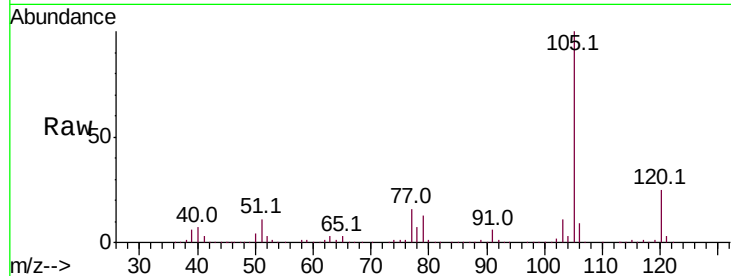
#73
Isopropylbenzene
Concen: 18.370 ug/l
RT: 11.02 min Scan# 1618
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion:105 Resp: 232561
Ion Ratio Lower Upper
105 100
120 25.2 13.4 40.1

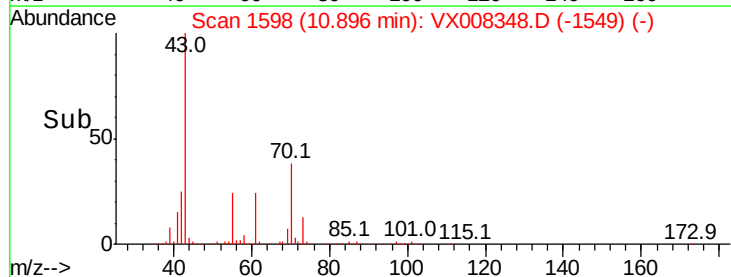
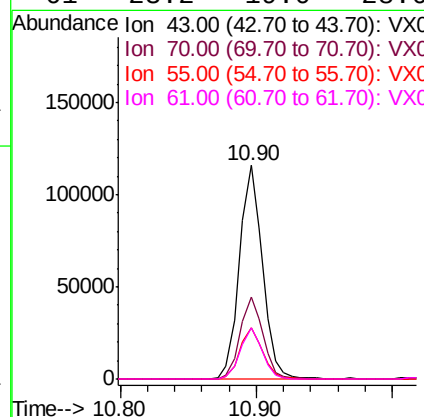
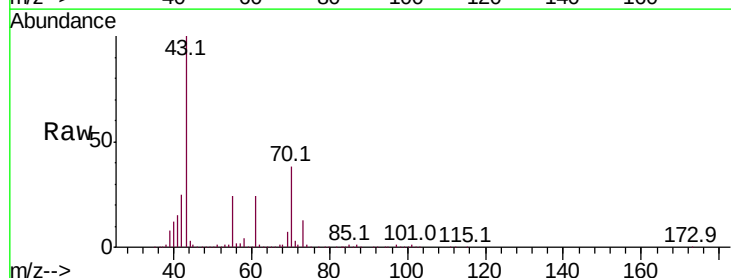
Manual Integrations
APPROVED

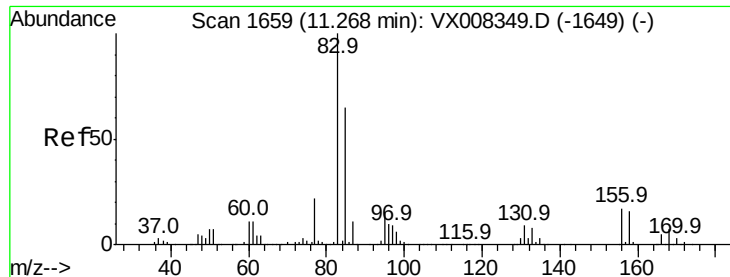
MMDadoda
3/25/2019 11:16:42 AM



#74
N-ethyl acetate
Concen: 20.580 ug/l
RT: 10.90 min Scan# 1598
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion: 43 Resp: 136498
Ion Ratio Lower Upper
43 100
70 38.2 33.5 50.3
55 24.1 19.2 28.8
61 23.2 19.0 28.6





#75

1,1,2,2-Tetrachloroethane

Concen: 20.072 ug/l

RT: 11.27 min Scan# 1659

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

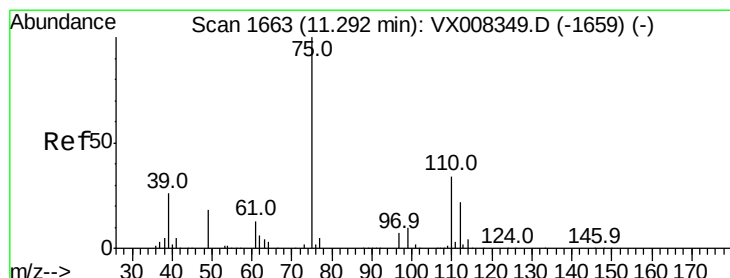
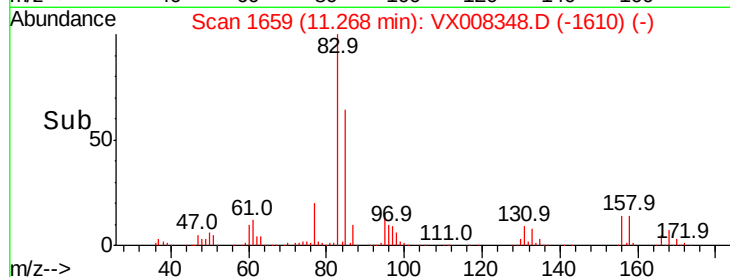
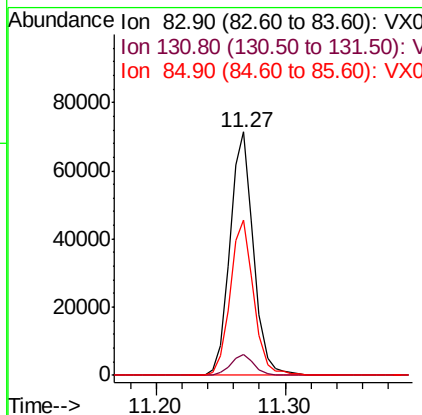
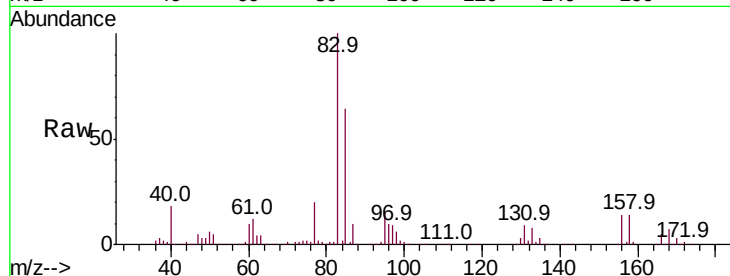
ClientSampleId :

VSTDIC020

Tot Ion:	83	Resp:	91116
Ion Ratio	Lower	Upper	
83	100		
131	8.6	5.4	16.2
85	63.8	32.3	96.8

Manual Integrations
APPROVED

MMDadoda
3/25/2019 11:16:42 AM



#76

1,2,3-Trichloropropane

Concen: 19.143 ug/l m

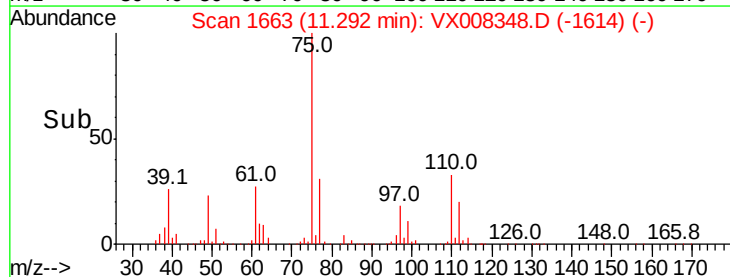
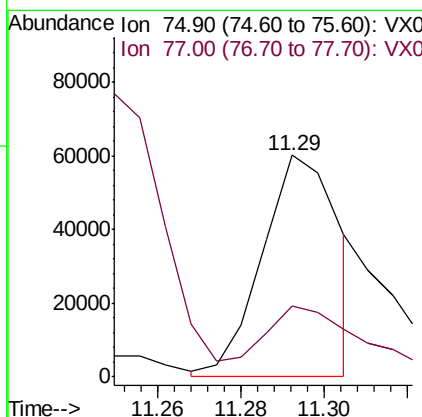
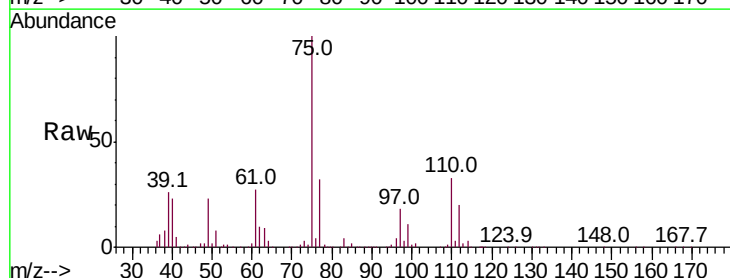
RT: 11.29 min Scan# 1663

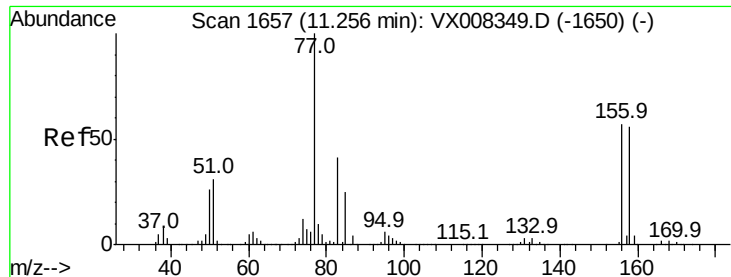
Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Tgt Ion:	75	Resp:	76468
Ion Ratio	Lower	Upper	
75	100		
77	42.5	18.9	56.7





#77

Bromobenzene

Concen: 17.502 ug/l

RT: 11.26 min Scan# 1657

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion:156 Resp: 53570

Ion Ratio Lower Upper

156 100

77 186.3 72.0 215.9

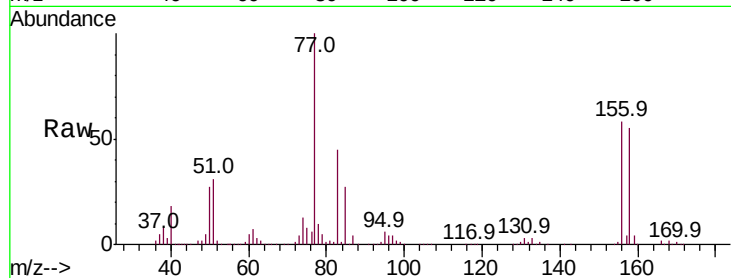
158 95.9 48.6 145.9

Manual Integrations

APPROVED

MMDadoda

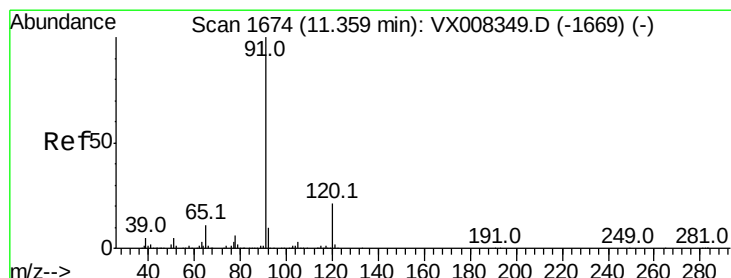
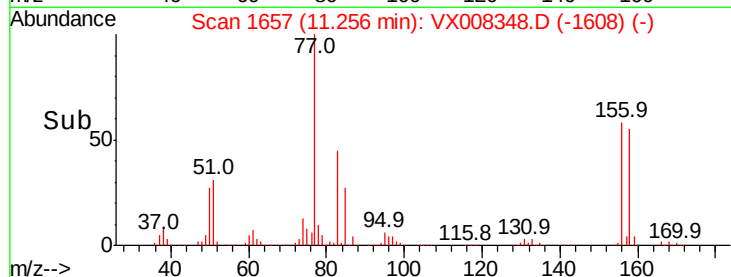
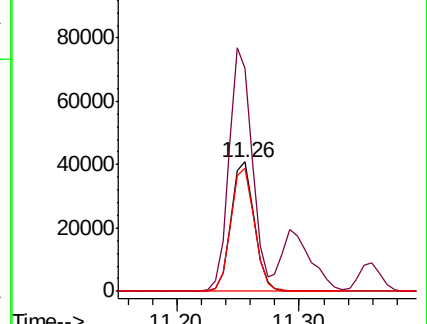
3/25/2019 11:16:42 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 18.489 ug/l

RT: 11.36 min Scan# 1674

Delta R.T. 0.00 min

Lab File: VX008348.D

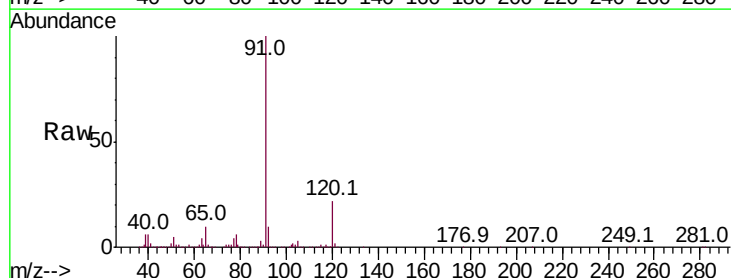
Acq: 23 Mar 2019 13:56

Tgt Ion: 91 Resp: 271853

Ion Ratio Lower Upper

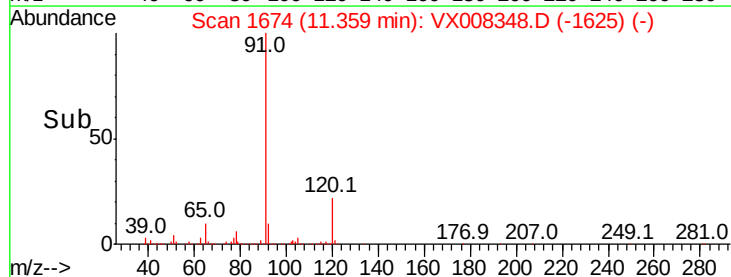
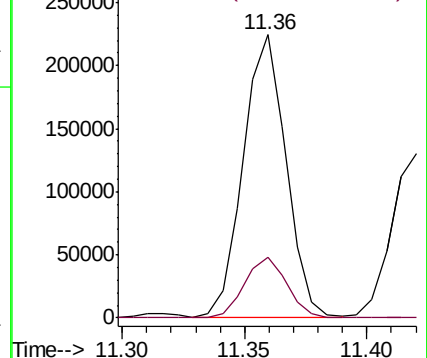
91 100

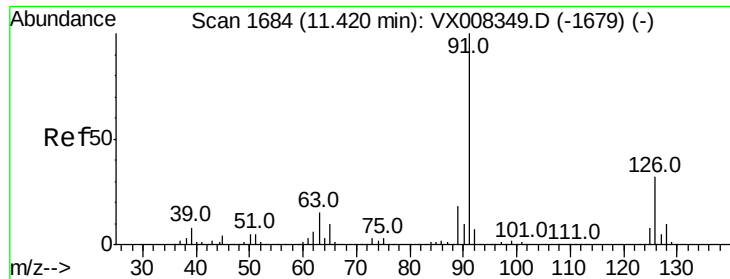
120 21.6 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 18.220 ug/l

RT: 11.42 min Scan# 1684

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampled :

VSTDIC020

Tot Ion: 91 Resp: 160791

Ion Ratio Lower Upper

91 100

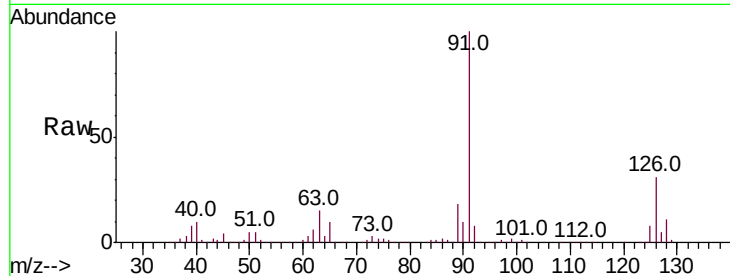
126 31.4 17.5 52.6

Manual Integrations

APPROVED

MMDadoda

3/25/2019 11:16:42 AM



Abundance Ion 91.00 (90.70 to 91.70): VX008349.D (-1679) (-)

Ion 125.90 (125.60 to 126.60): VX008349.D (-1679) (-)

250000

200000

150000

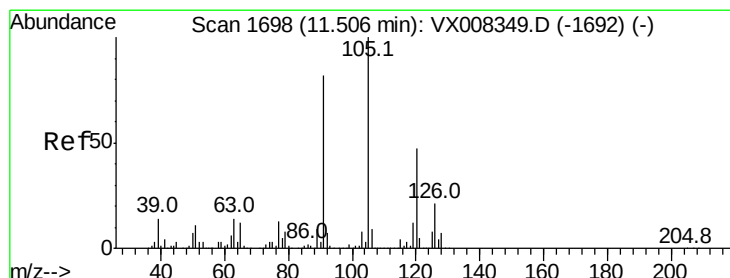
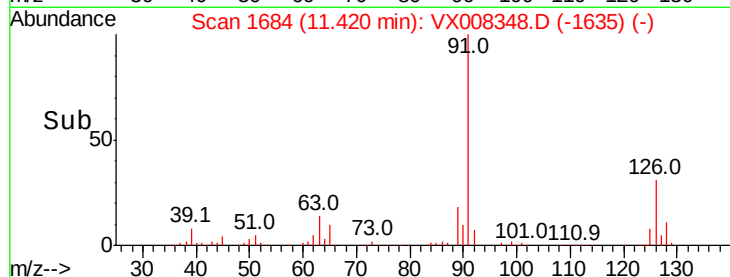
100000

50000

0

11.40 11.45

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 18.624 ug/l

RT: 11.51 min Scan# 1698

Delta R.T. 0.00 min

Lab File: VX008348.D

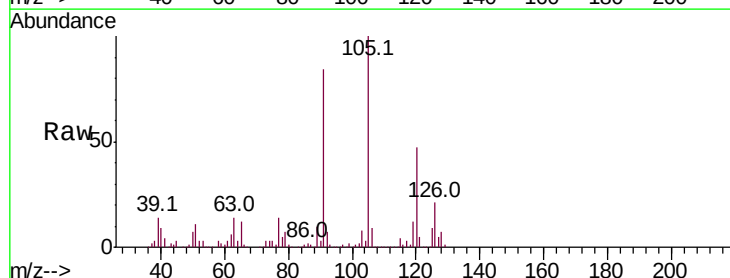
Acq: 23 Mar 2019 13:56

Tgt Ion: 105 Resp: 194784

Ion Ratio Lower Upper

105 100

120 46.8 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VX008349.D (-1692) (-)

Ion 120.00 (119.70 to 120.70): VX008349.D (-1692) (-)

150000

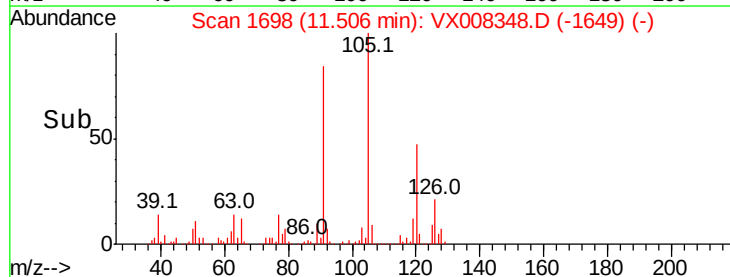
100000

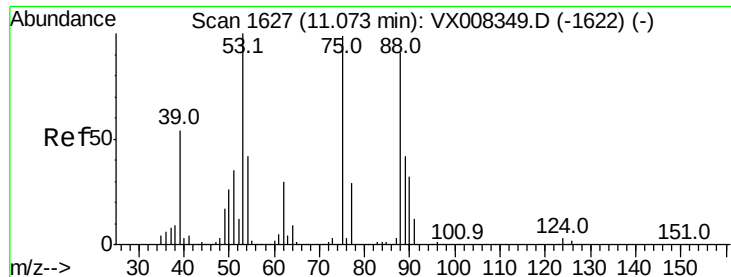
50000

0

11.50 11.60

Time-->





#81

trans-1,4-Dichloro-2-butene

Concen: 18.117 ug/l

RT: 11.07 min Scan# 1627

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion: 75 Resp: 25302

Ion Ratio Lower Upper

75 100

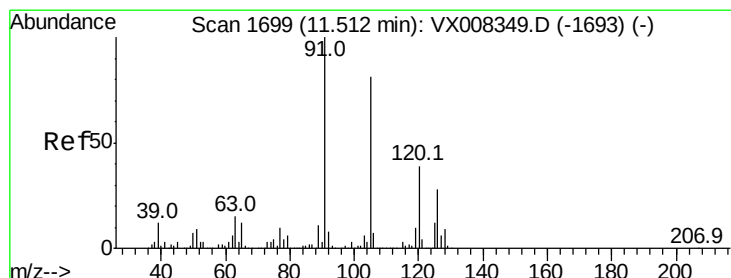
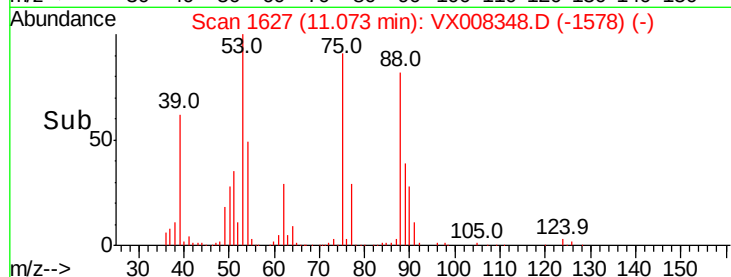
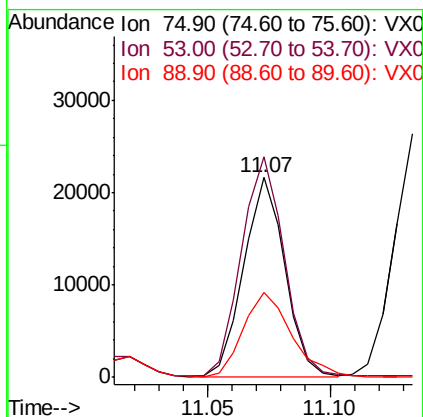
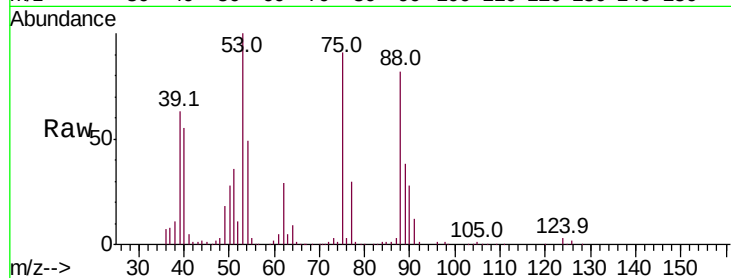
53 114.1 76.1 114.1

89 50.0 36.3 54.5

Manual Integrations
APPROVED

MMDadoda

3/25/2019 11:16:42 AM



#82

4-Chlorotoluene

Concen: 17.893 ug/l

RT: 11.51 min Scan# 1699

Delta R.T. 0.00 min

Lab File: VX008348.D

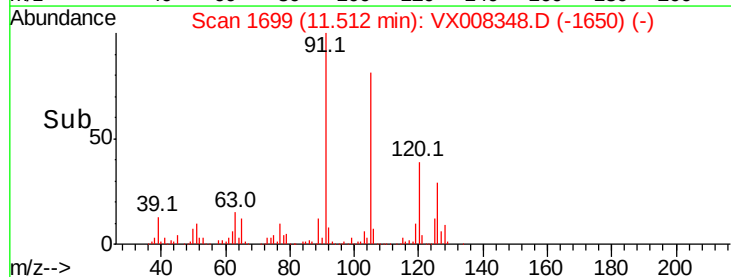
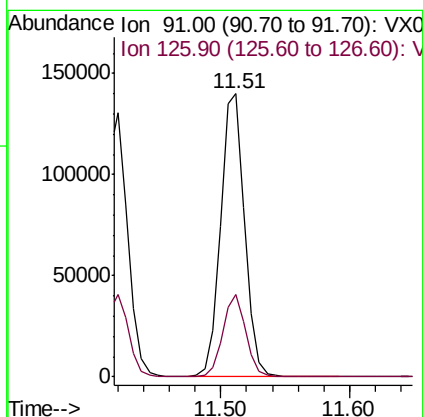
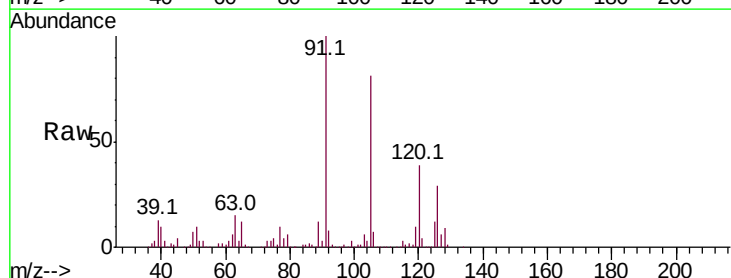
Acq: 23 Mar 2019 13:56

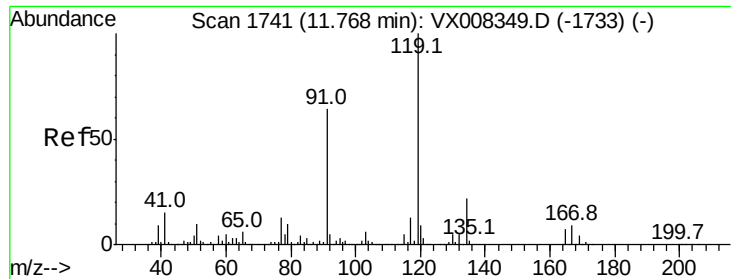
Tgt Ion: 91 Resp: 183754

Ion Ratio Lower Upper

91 100

126 27.9 15.6 46.8





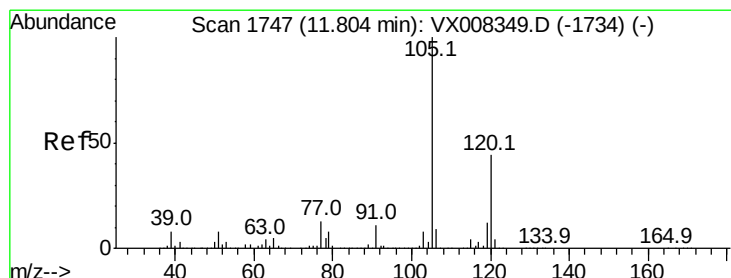
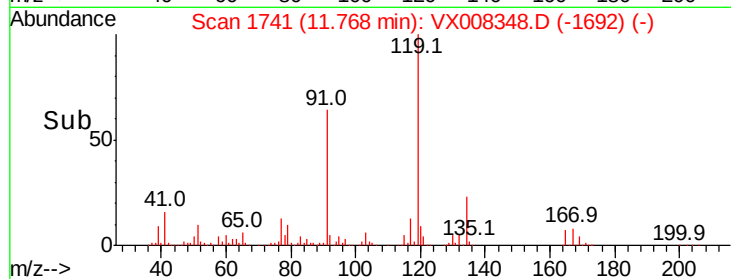
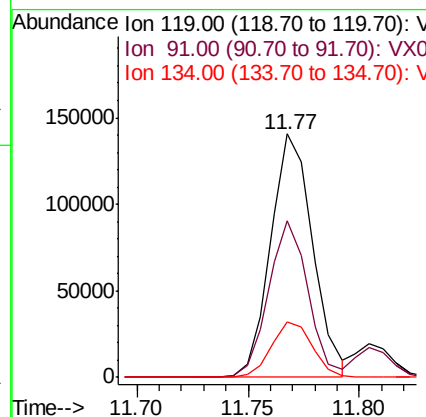
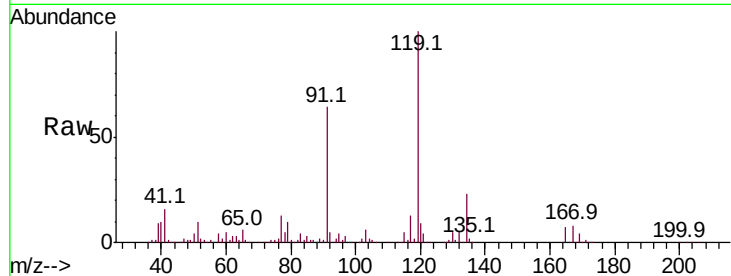
#83
tert-Butylbenzene
Concen: 18.516 ug/l
RT: 11.77 min Scan# 1741
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampled :
VSTDIC020

Tot Ion	Ratio	Lower	Upper
119	100		
91	60.3	27.1	81.3
134	22.2	11.4	34.1

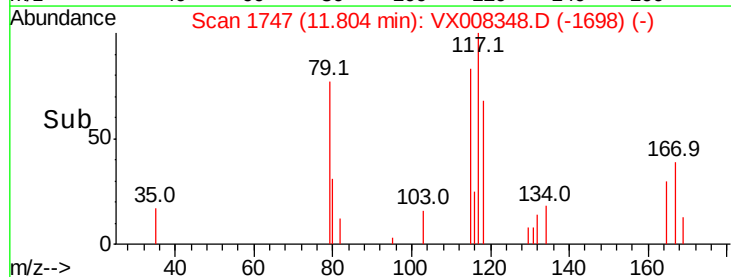
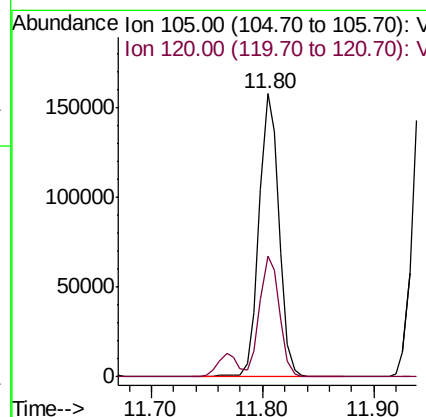
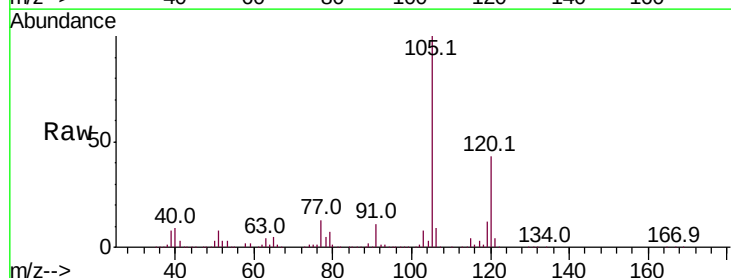
Manual Integrations
APPROVED

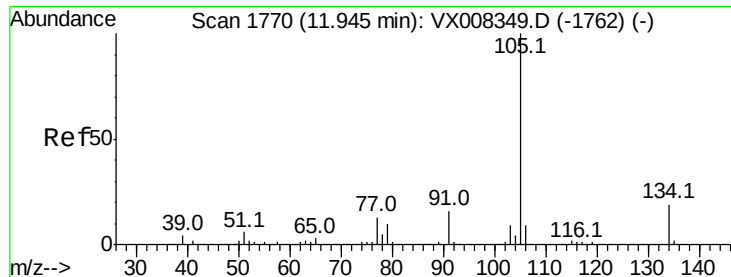
MMDadoda
3/25/2019 11:16:42 AM



#84
1,2,4-Trimethylbenzene
Concen: 18.537 ug/l
RT: 11.80 min Scan# 1747
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	42.1	22.6	67.7





#85

sec-Butylbenzene

Concen: 18.224 ug/l

RT: 11.94 min Scan# 1770

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC020

Tot Ion:105 Resp: 225351

Ion Ratio Lower Upper

105 100

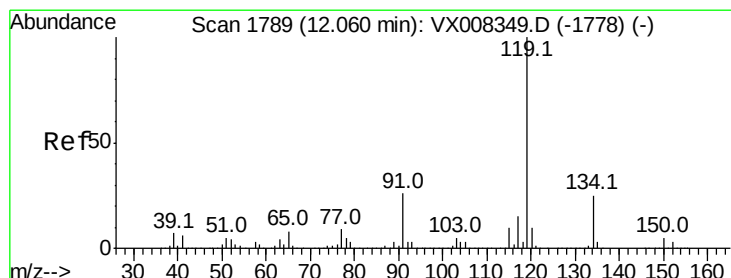
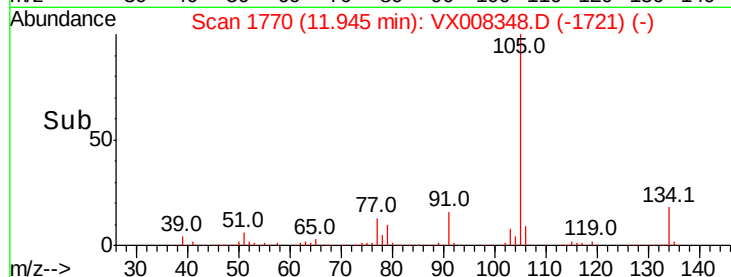
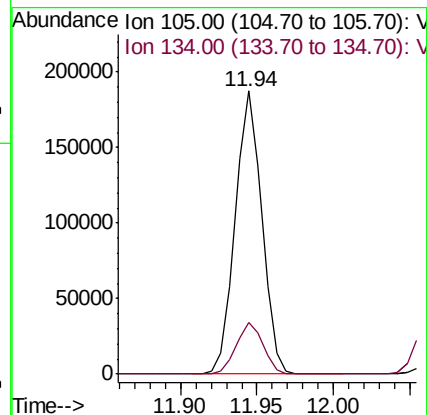
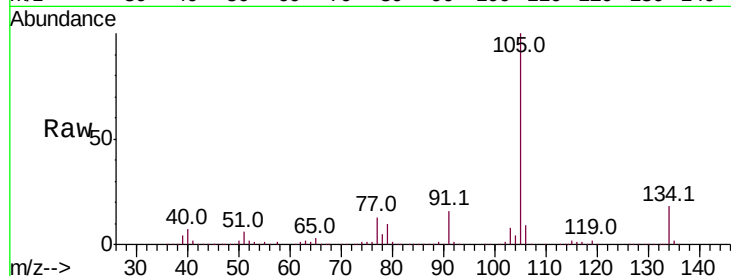
134 18.6 10.4 31.2

Manual Integrations

APPROVED

MMDadoda

3/25/2019 11:16:42 AM



#86

p-Isopropyltoluene

Concen: 18.699 ug/l

RT: 12.06 min Scan# 1789

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

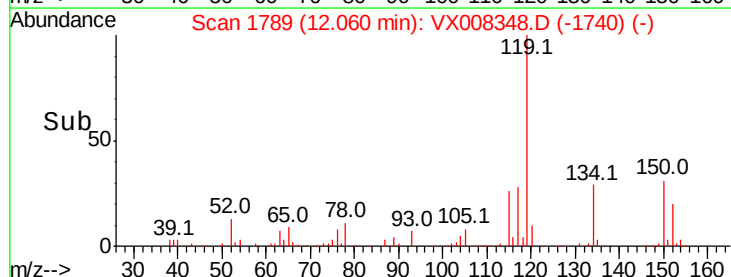
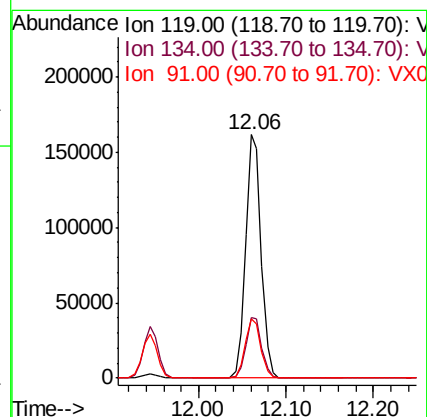
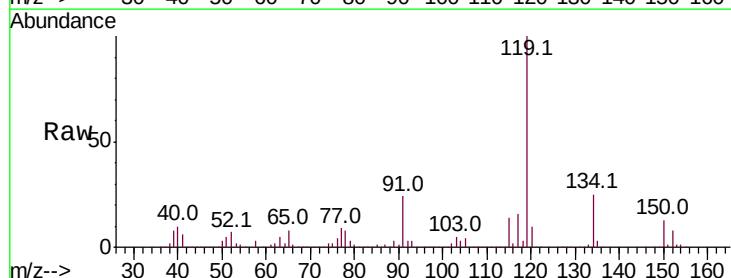
Tgt Ion:119 Resp: 200151

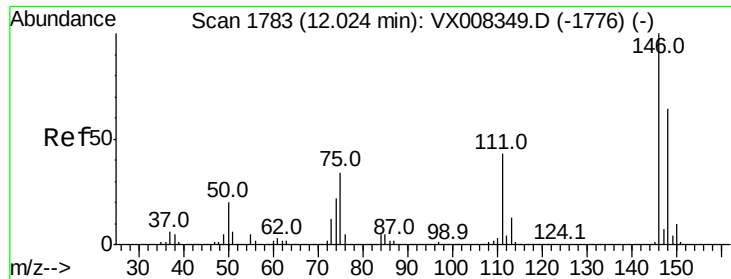
Ion Ratio Lower Upper

119 100

134 25.3 13.3 39.9

91 24.8 10.9 32.7





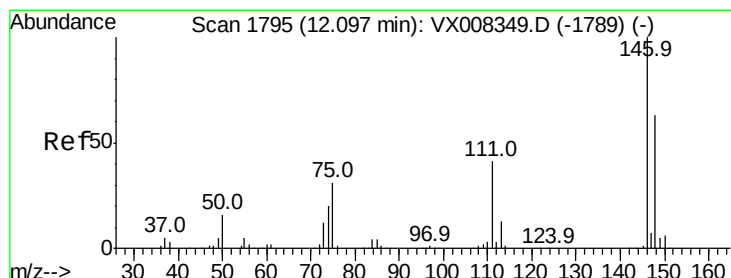
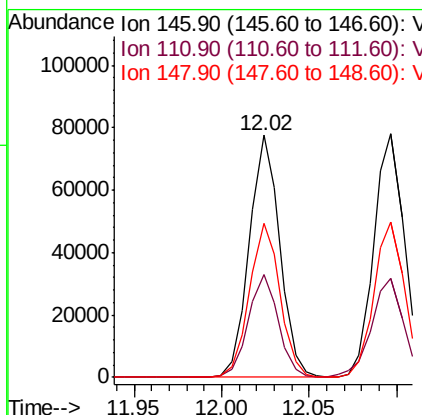
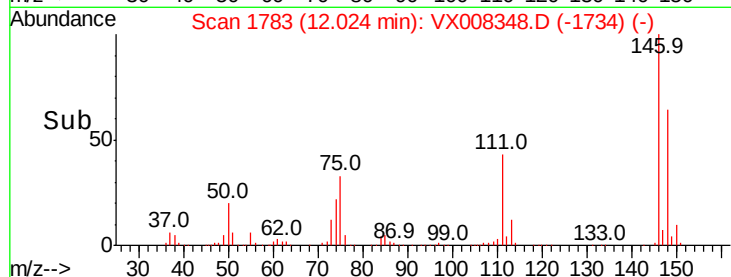
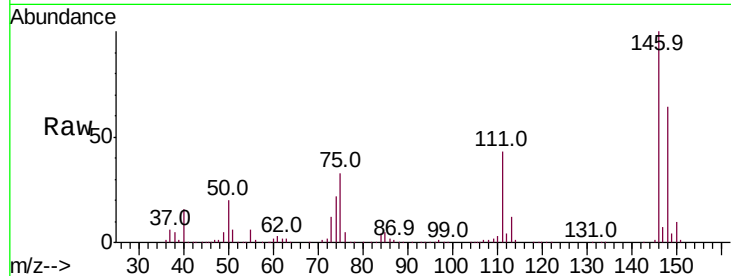
#87
 1,3-Dichlorobenzene
 Concen: 17.138 ug/l
 RT: 12.02 min Scan# 1783
 Delta R.T. 0.00 min
 Lab File: VX008348.D
 Acq: 23 Mar 2019 13:56

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.8	18.9	56.7
148	63.8	31.7	95.1

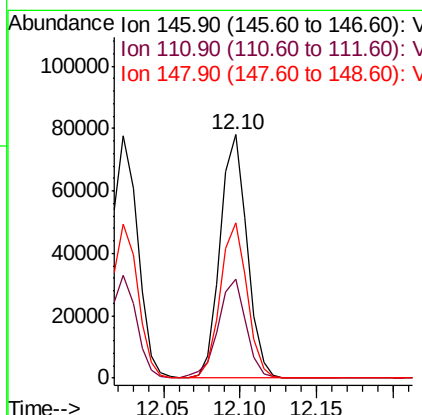
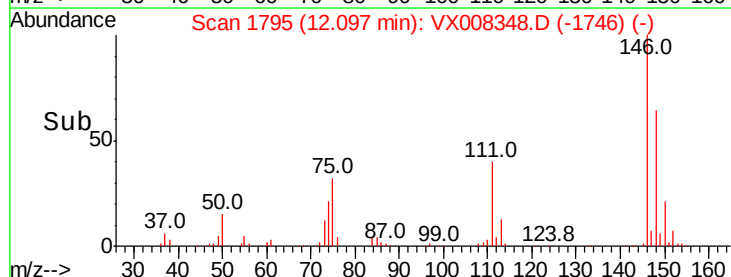
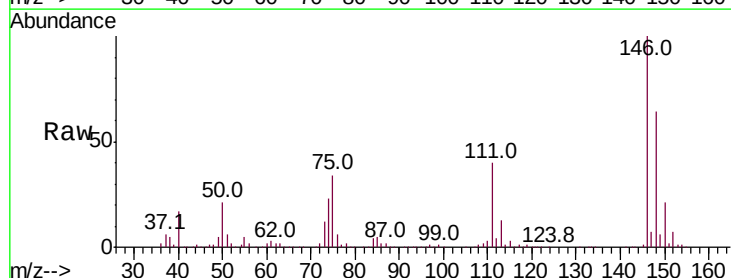
Manual Integrations
 APPROVED

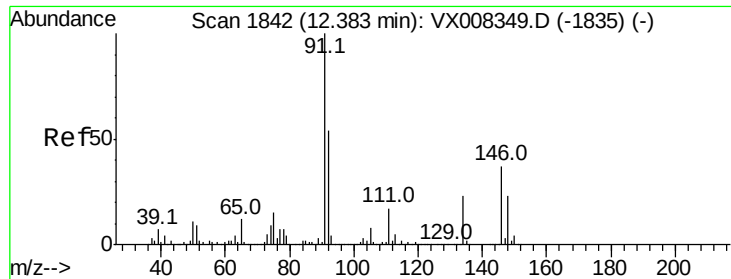
MMDadoda
 3/25/2019 11:16:42 AM



#88
 1,4-Dichlorobenzene
 Concen: 16.846 ug/l
 RT: 12.10 min Scan# 1795
 Delta R.T. 0.00 min
 Lab File: VX008348.D
 Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.0	18.4	55.0
148	63.8	32.2	96.6





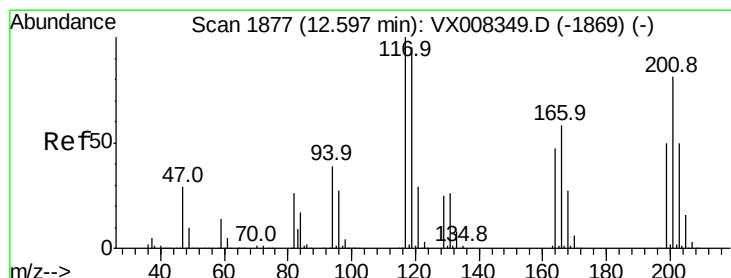
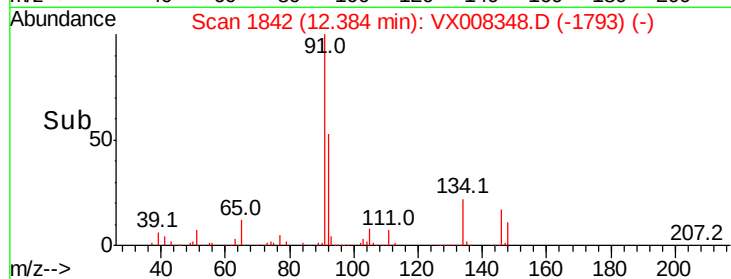
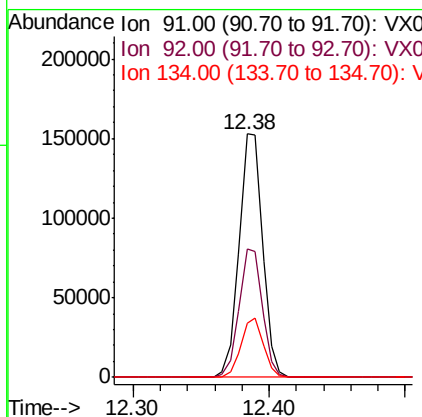
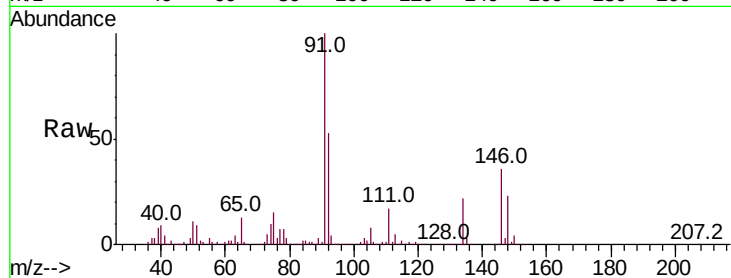
#89
n-Butylbenzene
Concen: 18.364 ug/l
RT: 12.38 min Scan# 1842
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
91	100	184485		
92	52.3		27.0	80.8
134	23.4		13.7	41.0

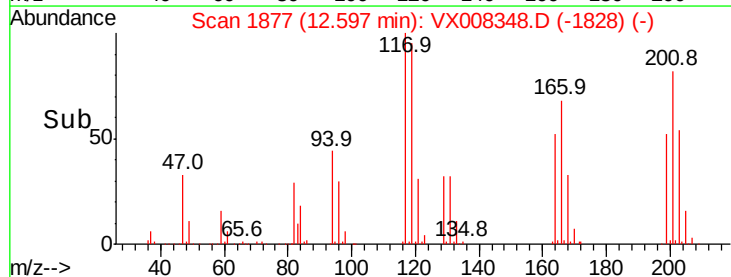
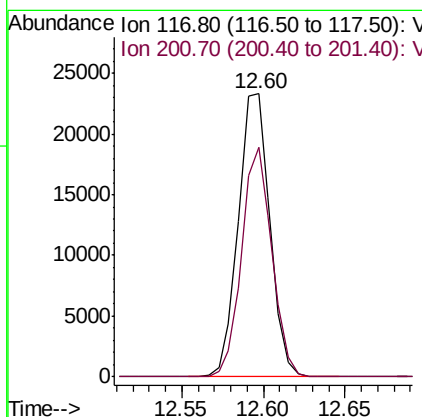
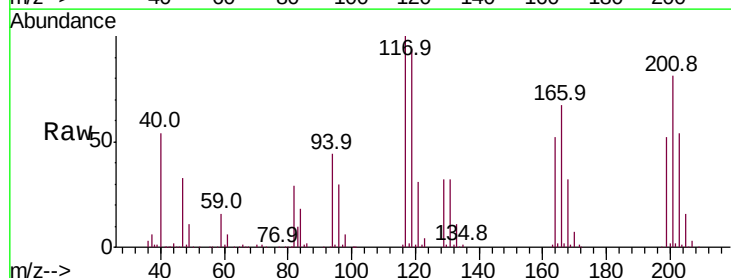
Manual Integrations
APPROVED

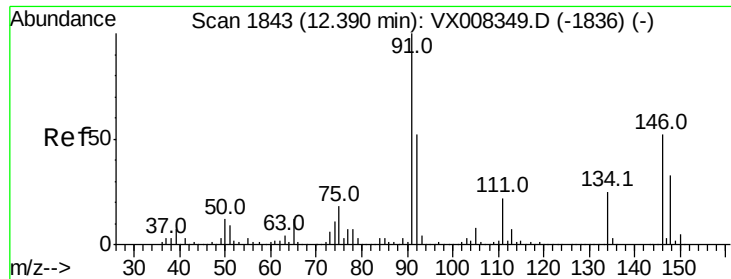
MMDadoda
3/25/2019 11:16:42 AM



#90
Hexachloroethane
Concen: 17.271 ug/l
RT: 12.60 min Scan# 1877
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	31484		
201	77.3		48.9	146.7





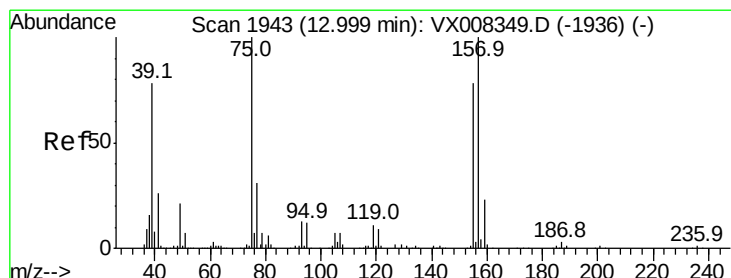
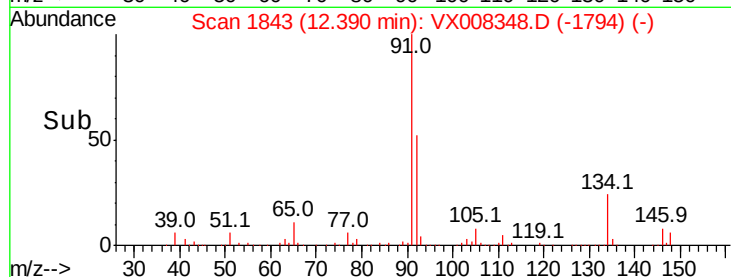
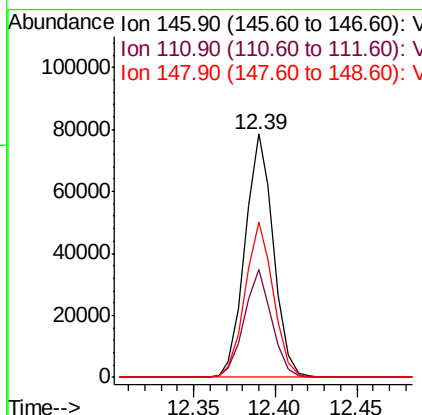
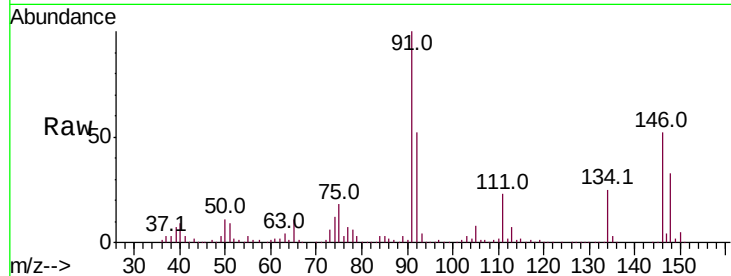
#91
 1,2-Dichlorobenzene
 Concen: 17.247 ug/l
 RT: 12.39 min Scan# 1843
 Delta R.T. 0.00 min
 Lab File: VX008348.D
 Acq: 23 Mar 2019 13:56

Instrument :
 MSVOA_X
 ClientSampled :
 VSTDIC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	43.1	19.6	58.8
148	63.6	31.9	95.5

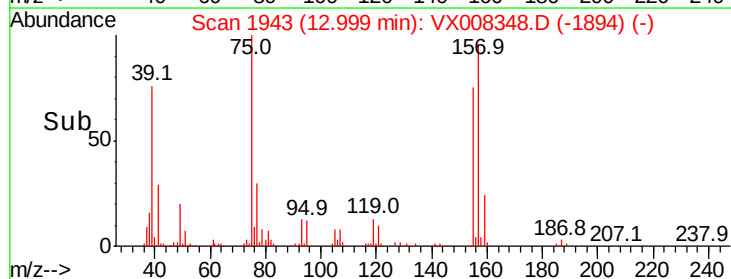
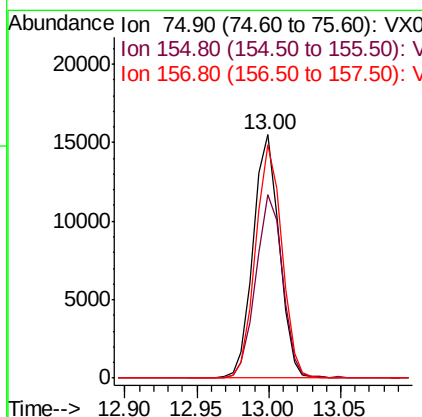
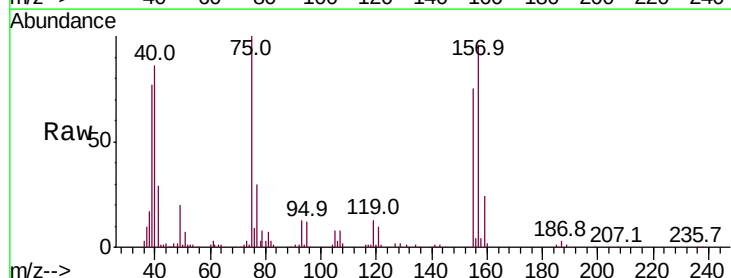
Manual Integrations
 APPROVED

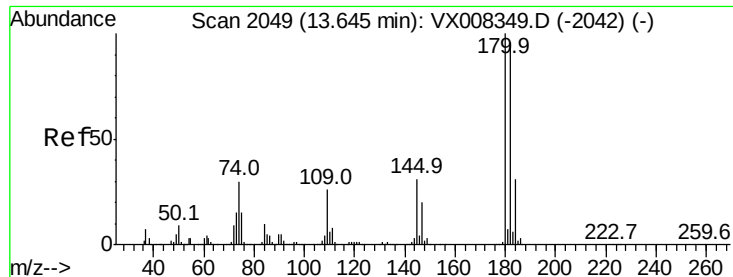
MMDadoda
 3/25/2019 11:16:42 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.184 ug/l
 RT: 13.00 min Scan# 1943
 Delta R.T. 0.00 min
 Lab File: VX008348.D
 Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Lower	Upper
75	100		
155	77.5	49.7	149.1
157	96.4	63.8	191.4





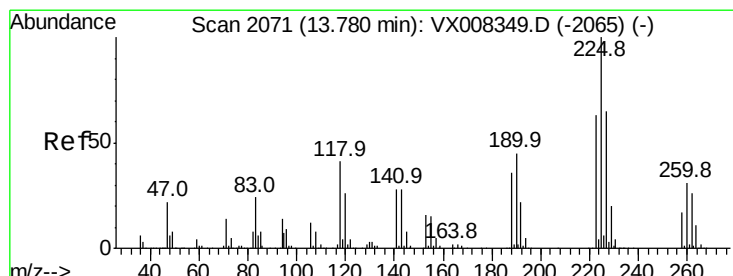
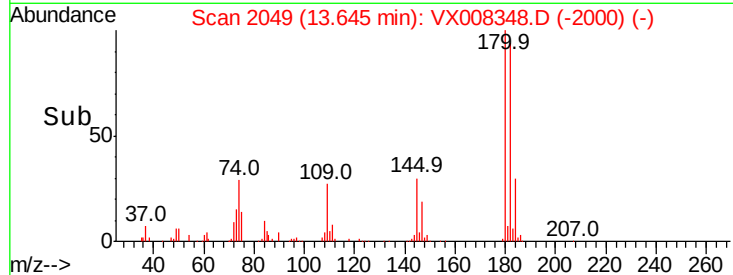
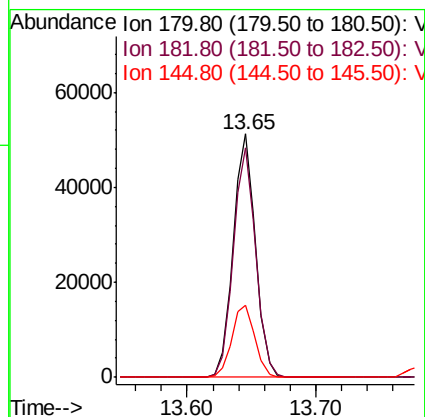
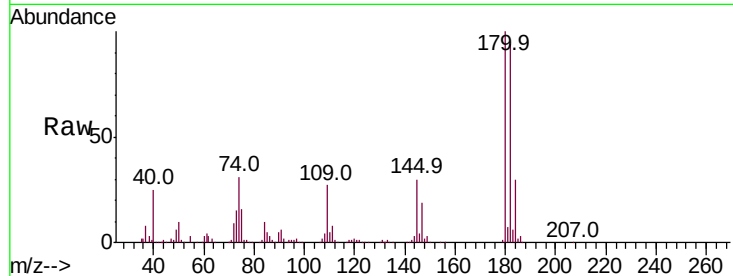
#93
1,2,4-Trichlorobenzene
Concen: 17.063 ug/l
RT: 13.65 min Scan# 2049
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	61990		
182	94.9	47.9	143.7	
145	30.7	14.1	42.4	

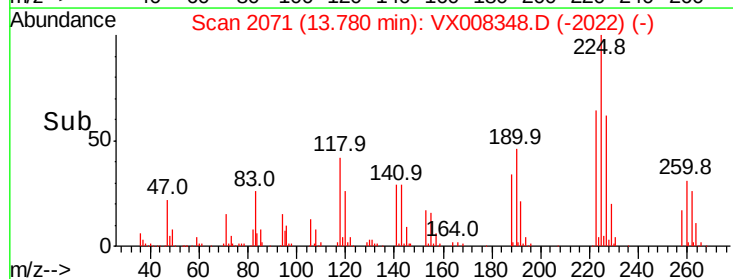
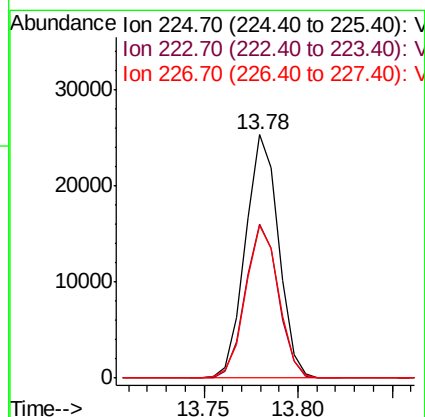
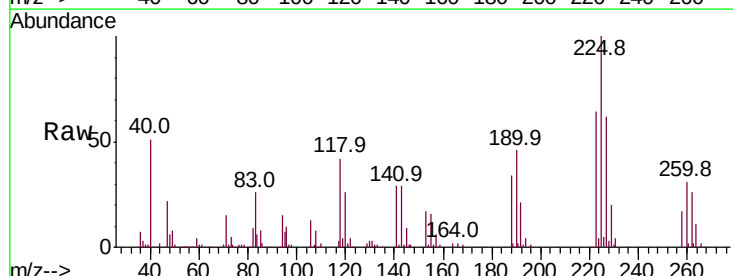
Manual Integrations
APPROVED

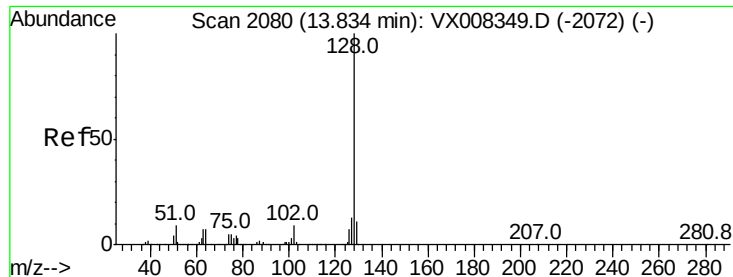
MMDadoda
3/25/2019 11:16:42 AM



#94
Hexachlorobutadiene
Concen: 17.451 ug/l
RT: 13.78 min Scan# 2071
Delta R.T. 0.00 min
Lab File: VX008348.D
Acq: 23 Mar 2019 13:56

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	30920		
223	62.7	31.1	93.2	
227	62.5	32.0	96.0	





#95

Naphthalene

Concen: 19.772 ug/l

RT: 13.83 min Scan# 2080

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Instrument :

MSVOA_X

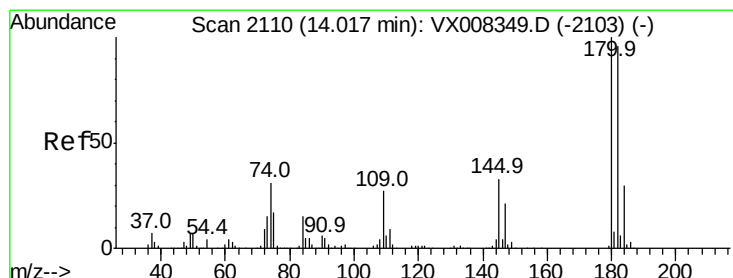
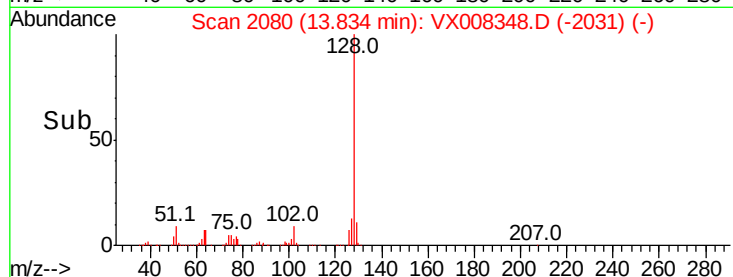
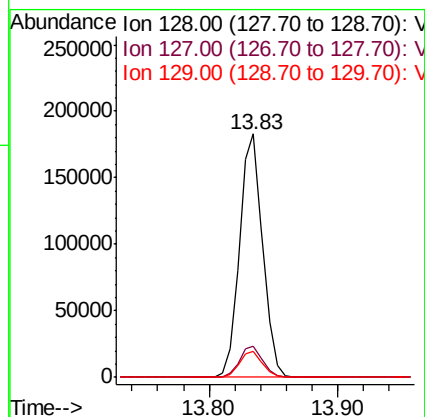
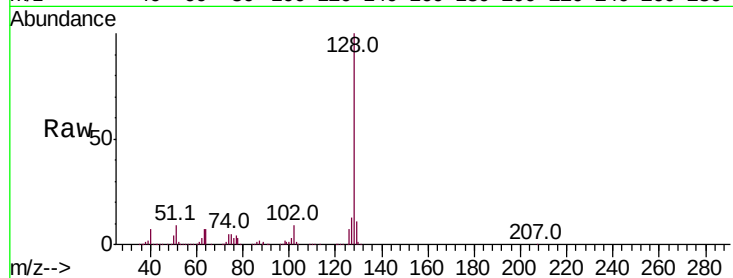
ClientSampleId :

VSTDIC020

Tot Ion:	128	Resp:	226714
Ion Ratio	Lower	Upper	
128	100		
127	13.1	10.3	15.5
129	10.8	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
3/25/2019 11:16:42 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.073 ug/l

RT: 14.02 min Scan# 2110

Delta R.T. 0.00 min

Lab File: VX008348.D

Acq: 23 Mar 2019 13:56

Tgt Ion:	180	Resp:	64608
Ion Ratio	Lower	Upper	
180	100		
182	94.3	47.5	142.5
145	31.9	14.8	44.3

