

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\VX082218\
 Data File : VX004191.D
 Acq On : 22 Aug 2018 10:48
 Operator : JC/MD
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/23/2018 9:39:41 AM

Quant Time: Aug 23 04:47:30 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Aug 23 04:40:05 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	311143	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.86	114	462030	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	417856	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	251290	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	6.06	65	23320	5.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	11.50%	
35) Dibromofluoromethane	5.51	113	18692	5.44	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.88%	
50) Toluene-d8	8.71	98	66612	5.13	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.26%	
62) 4-Bromofluorobenzene	11.14	95	22666	4.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.36%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.20	85	12937	3.59	ug/l	95
3) Chloromethane	1.32	50	18284	4.35	ug/l	100
4) Vinyl Chloride	1.40	62	18838	4.62	ug/l	98
5) Bromomethane	1.64	94	10923	4.43	ug/l	99
6) Chloroethane	1.71	64	14715	4.70	ug/l	100
7) Trichlorofluoromethane	1.92	101	26108	4.67	ug/l	87
8) Diethyl Ether	2.18	74	11855	4.96	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	2.38	101	16675	4.77	ug/l	99
10) Methyl Iodide	2.51	142	12732	3.54	ug/l	99
11) Tert butyl alcohol	3.07	59	22571	26.11	ug/l	99
12) 1,1-Dichloroethene	2.37	96	15847	4.81	ug/l	98
13) Acrolein	2.29	56	5761	27.64	ug/l	95
14) Allyl chloride	2.72	41	29656	4.90	ug/l	98
15) Acrylonitrile	3.15	53	54214	25.32	ug/l	99
16) Acetone	2.45	43	56065	29.10	ug/l	99
17) Carbon Disulfide	2.57	76	39459	4.07	ug/l	99
18) Methyl Acetate	2.78	43	28024	4.66	ug/l	98
19) Methyl tert-butyl Ether	3.20	73	55312	5.09	ug/l	97
20) Methylene Chloride	2.85	84	19754	5.06	ug/l	99
21) trans-1,2-Dichloroethene	3.16	96	17336	4.75	ug/l	97
22) Diisopropyl ether	3.87	45	57837	5.12	ug/l	92
23) Vinyl Acetate	3.82	43	229550	25.05	ug/l	98
24) 1,1-Dichloroethane	3.69	63	32712	4.96	ug/l	97
25) 2-Butanone	4.70	43	85817	28.52	ug/l	100
26) 2,2-Dichloropropane	4.58	77	25638	4.96	ug/l	100
27) cis-1,2-Dichloroethene	4.60	96	20483	4.95	ug/l	96
28) Bromochloromethane	5.02	49	15175	5.20	ug/l	99
29) Tetrahydrofuran	5.16	42	41739	23.96	ug/l	99
30) Chloroform	5.21	83	34154	5.17	ug/l	96
31) Cyclohexane	5.57	56	26257	4.62	ug/l	96
32) 1,1,1-Trichloroethane	5.49	97	27473	4.99	ug/l	98
36) 1,1-Dichloropropene	5.79	75	23937	4.61	ug/l	98
37) Ethyl Acetate	4.86	43	26567	5.20	ug/l	99
38) Carbon Tetrachloride	5.78	117	23148	4.74	ug/l	94

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 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleID :
 VSTDIC005

Manual Integrations
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MMDadoda
 8/23/2018 9:39:41 AM

Quant Time: Aug 23 04:47:30 2018
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 Quant Title : SW846 8260
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	25866	4.36	ug/l	97
40) Benzene	6.14	78	76571	4.93	ug/l	98
41) Methacrylonitrile	5.06	41	14552	4.91	ug/l	97
42) 1,2-Dichloroethane	6.20	62	26980	5.10	ug/l	100
43) Isopropyl Acetate	6.46	43	36272	4.62	ug/l	99
44) Trichloroethene	7.21	130	20141	4.69	ug/l	99
45) 1,2-Dichloropropane	7.52	63	18479	4.76	ug/l	96
46) Dibromomethane	7.66	93	12551	4.85	ug/l	98
47) Bromodichloromethane	7.90	83	22434	4.66	ug/l	97
48) Methyl methacrylate	7.78	41	18401	4.38	ug/l	97
49) 1,4-Dioxane	7.76	88	8981	94.18	ug/l	93
51) 4-Methyl-2-Pentanone	8.65	43	154078	27.02	ug/l	98
52) Toluene	8.79	92	45847	4.72	ug/l	100
53) t-1,3-Dichloropropene	9.04	75	22600	4.25	ug/l	95
54) cis-1,3-Dichloropropene	8.44	75	25550	4.41	ug/l	96
55) 1,1,2-Trichloroethane	9.22	97	19070	4.86	ug/l	99
56) Ethyl methacrylate	9.18	69	22619	4.24	ug/l	98
57) 1,3-Dichloropropane	9.37	76	32017	4.84	ug/l	97
58) 2-Chloroethyl Vinyl ether	8.31	63	58293	21.31	ug/l	100
59) 2-Hexanone	9.50	43	115511	26.55	ug/l	96
60) Dibromochloromethane	9.59	129	17035	4.46	ug/l	99
61) 1,2-Dibromoethane	9.67	107	19328	4.76	ug/l	97
64) Tetrachloroethene	9.34	164	19573	4.74	ug/l	99
65) Chlorobenzene	10.14	112	49275	4.70	ug/l	96
66) 1,1,1,2-Tetrachloroethane	10.22	131	17236	4.77	ug/l	97
67) Ethyl Benzene	10.26	91	78569	4.61	ug/l	92
68) m/p-Xylenes	10.36	106	59350	8.91	ug/l	97
69) o-Xylene	10.70	106	27640	4.39	ug/l	99
70) Styrene	10.71	104	44114	4.32	ug/l	98
71) Bromoform	10.86	173	11978	4.11	ug/l #	98
73) Isopropylbenzene	11.02	105	76499	4.64	ug/l	99
74) N-amyl acetate	10.90	43	28554	4.49	ug/l	97
75) 1,1,2,2-Tetrachloroethane	11.27	83	29326	5.08	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	25752m	5.19	ug/l	
77) Bromobenzene	11.26	156	22713	4.91	ug/l	97
78) n-propylbenzene	11.36	91	87993	4.64	ug/l	99
79) 2-Chlorotoluene	11.42	91	56423	4.83	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	64217	4.70	ug/l	97
81) trans-1,4-Dichloro-2-buten	11.08	75	6382	4.05	ug/l #	83
82) 4-Chlorotoluene	11.51	91	66138	4.81	ug/l	99
83) tert-Butylbenzene	11.77	119	63281	4.60	ug/l	99
84) 1,2,4-Trimethylbenzene	11.80	105	64180	4.57	ug/l	99
85) sec-Butylbenzene	11.94	105	75574	4.63	ug/l	99
86) p-Isopropyltoluene	12.07	119	64014	4.38	ug/l	98
87) 1,3-Dichlorobenzene	12.03	146	42203	4.84	ug/l	99
88) 1,4-Dichlorobenzene	12.10	146	44930	4.90	ug/l	95
89) n-Butylbenzene	12.39	91	51276	4.31	ug/l	97
90) Hexachloroethane	12.60	117	9534	4.66	ug/l	99
91) 1,2-Dichlorobenzene	12.39	146	40740	5.11	ug/l	97
92) 1,2-Dibromo-3-Chloropropan	13.00	75	4737	4.66	ug/l	97

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ALS Vial : 3 Sample Multiplier: 1

Instrument :
MSVOA_X
ClientSampleId :
VSTDICC005

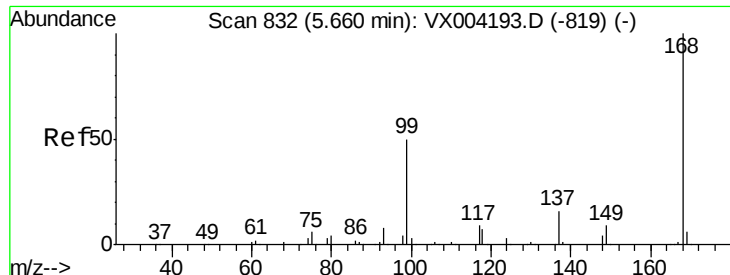
Manual Integrations
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Quant Time: Aug 23 04:47:30 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X082218W.M
Quant Title : SW846 8260
QLast Update : Thu Aug 23 04:40:05 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	25093	4.33	ug/l	98
94) Hexachlorobutadiene	13.79	225	12927	4.54	ug/l	96
95) Naphthalene	13.83	128	66449	4.05	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	26951	4.39	ug/l	99

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



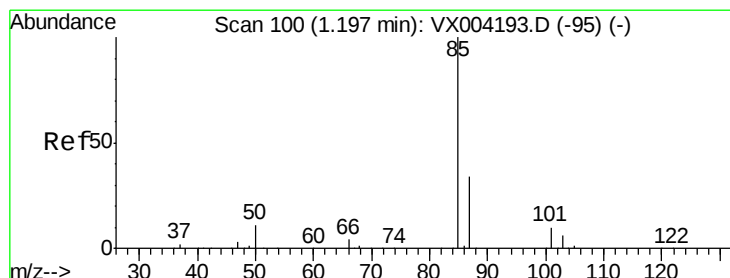
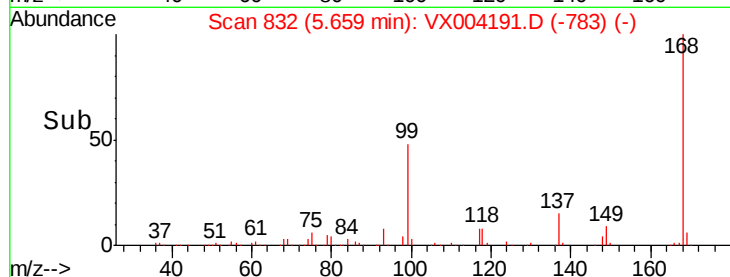
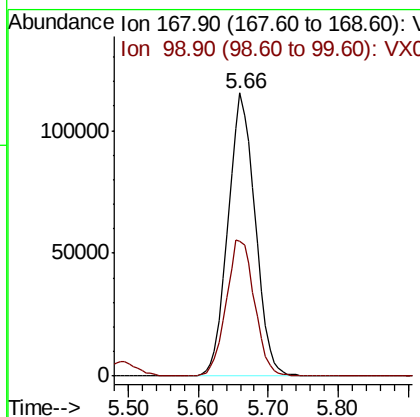
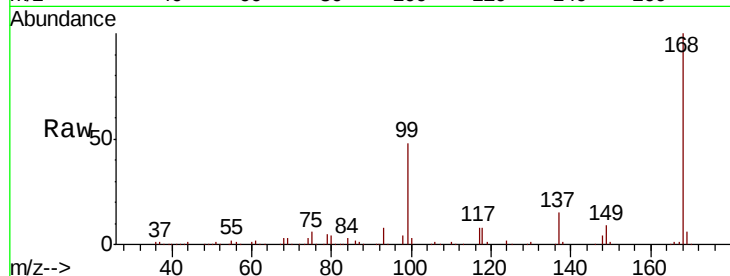
#1
Pentafluorobenzene
Concen: 50.00 ug/l
RT: 5.66 min Scan# 832
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
168	100		
99	47.5	39.9	59.9

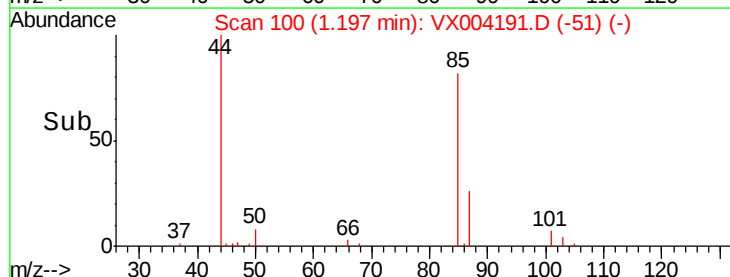
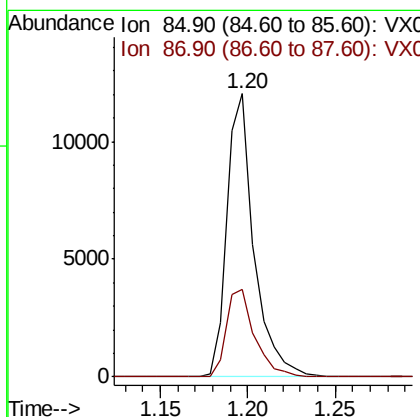
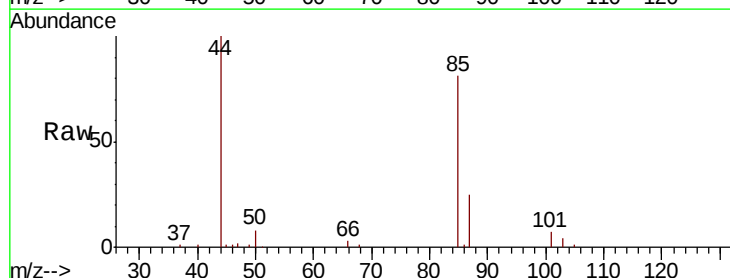
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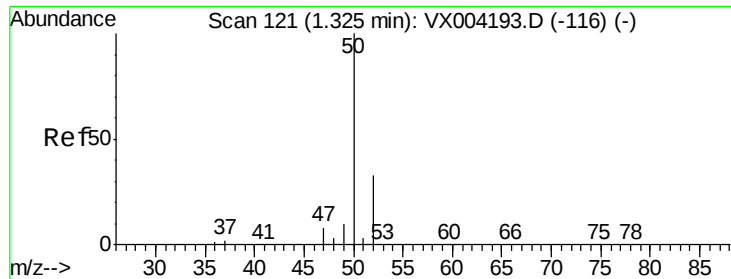
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#2
Dichlorodifluoromethane
Concen: 3.59 ug/l
RT: 1.20 min Scan# 100
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.0	17.0	50.9





#3

Chloromethane

Concen: 4.35 ug/l

RT: 1.32 min Scan# 121

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 18284

Ion Ratio Lower Upper

50 100

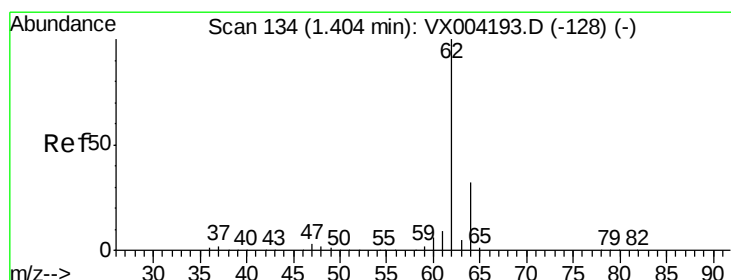
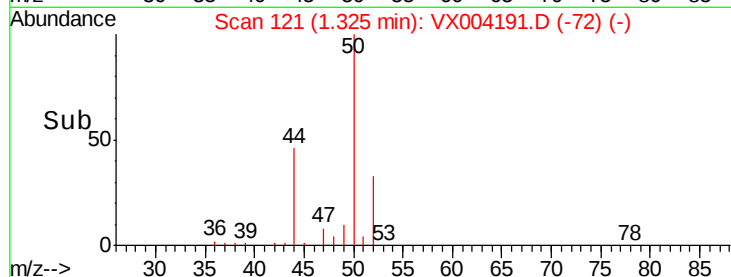
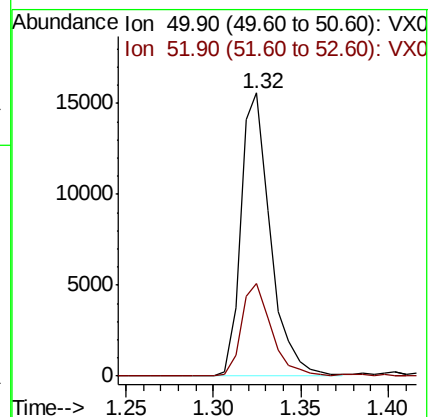
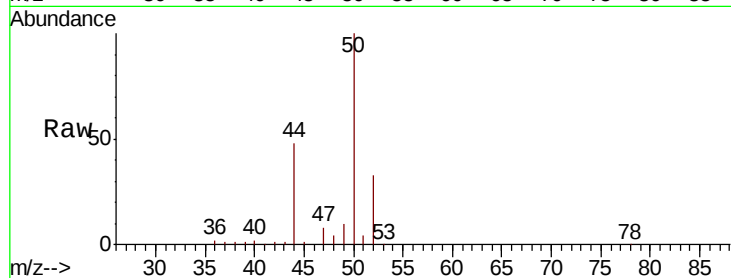
52 32.6 26.2 39.2

Manual Integrations

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#4

Vinyl Chloride

Concen: 4.62 ug/l

RT: 1.40 min Scan# 134

Delta R.T. -0.00 min

Lab File: VX004191.D

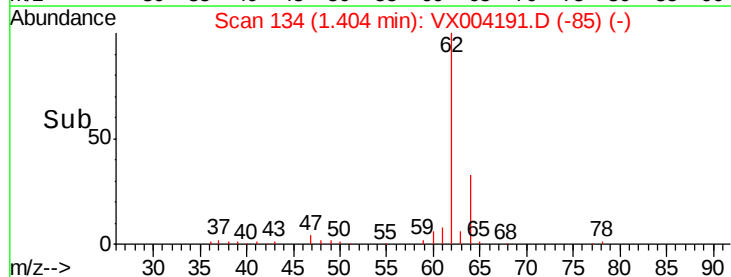
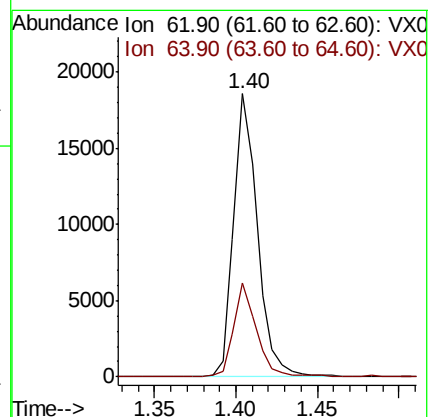
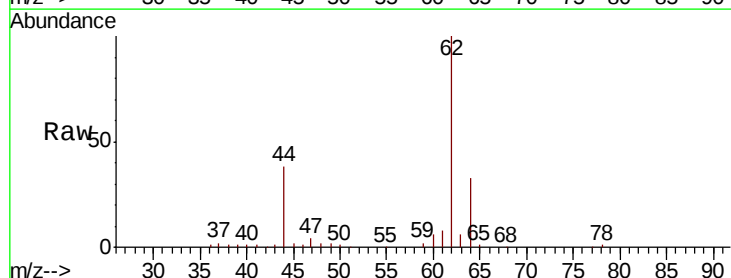
Acq: 22 Aug 2018 10:48

Tgt Ion: 62 Resp: 18838

Ion Ratio Lower Upper

62 100

64 33.2 25.8 38.8





#5

Bromomethane

Concen: 4.43 ug/l

RT: 1.64 min Scan# 172

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 10923

Ion Ratio Lower Upper

94 100

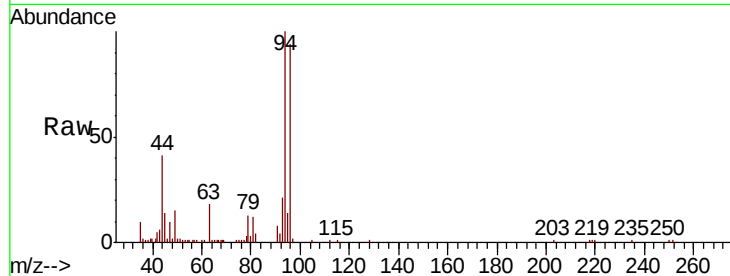
96 94.3 74.5 111.7

Manual Integrations

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Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0

12000

10000

8000

6000

4000

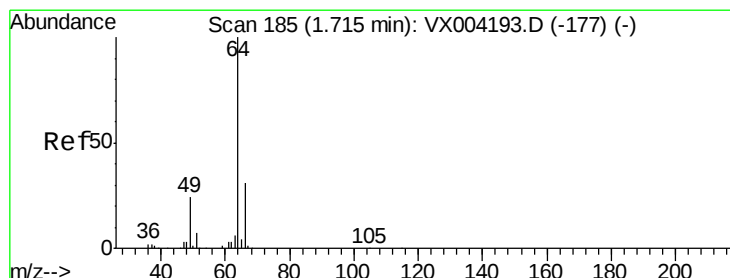
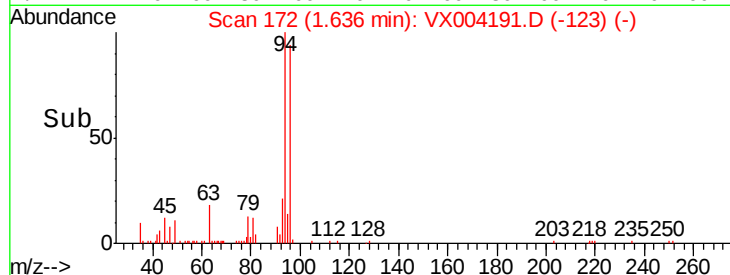
2000

0

Time-->

1.55 1.60 1.65 1.70 1.75

1.64



#6

Chloroethane

Concen: 4.70 ug/l

RT: 1.71 min Scan# 185

Delta R.T. -0.00 min

Lab File: VX004191.D

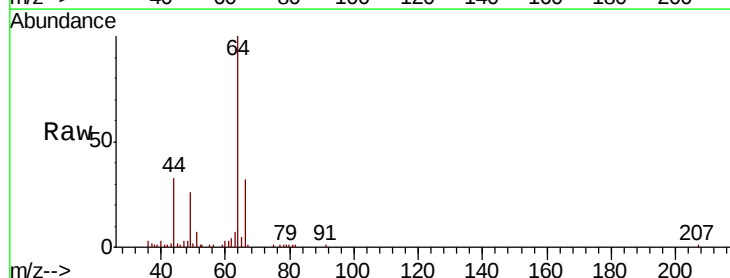
Acq: 22 Aug 2018 10:48

Tgt Ion: 64 Resp: 14715

Ion Ratio Lower Upper

64 100

66 30.9 24.6 36.8



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0

12000

10000

8000

6000

4000

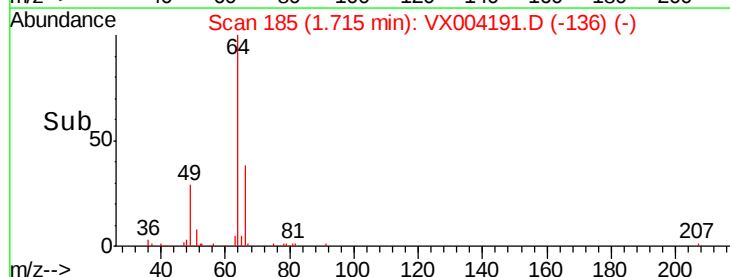
2000

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Time-->

1.65 1.70 1.75 1.80

1.71





#7

Trichlorofluoromethane

Concen: 4.67 ug/l

RT: 1.92 min Scan# 219

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:101 Resp: 26108

Ion Ratio Lower Upper

101 100

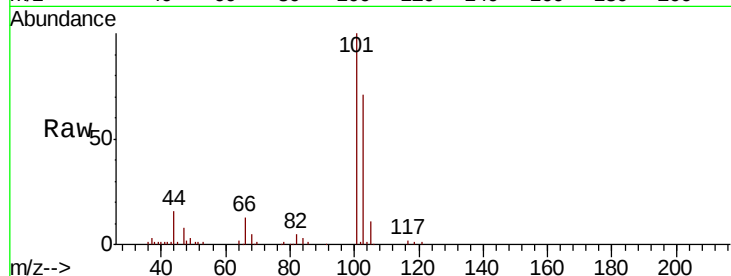
103 70.7 48.9 73.3

Manual Integrations

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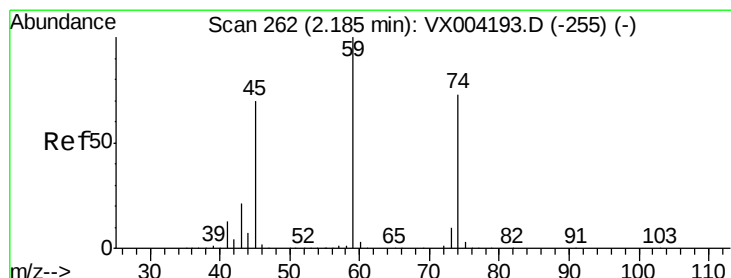
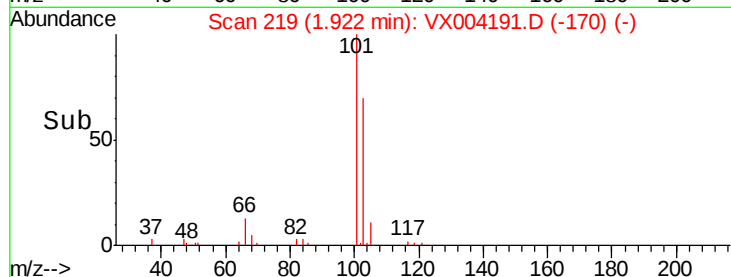
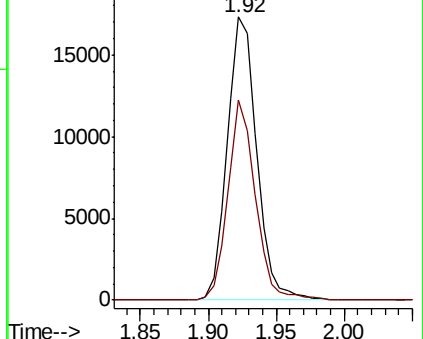
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Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V



#8

Diethyl Ether

Concen: 4.96 ug/l

RT: 2.18 min Scan# 262

Delta R.T. -0.00 min

Lab File: VX004191.D

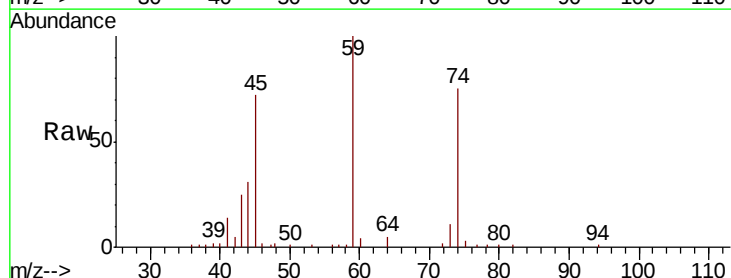
Acq: 22 Aug 2018 10:48

Tgt Ion: 74 Resp: 11855

Ion Ratio Lower Upper

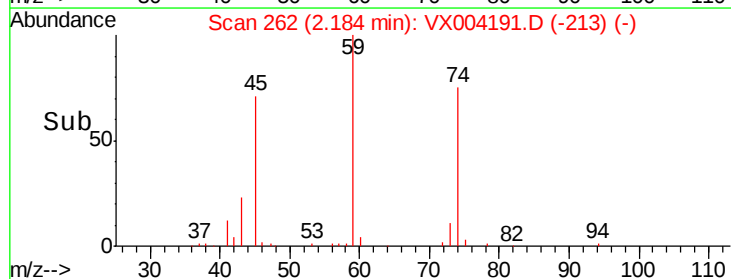
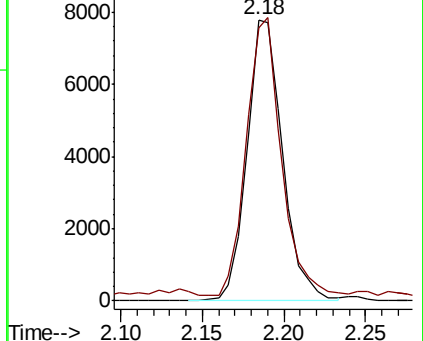
74 100

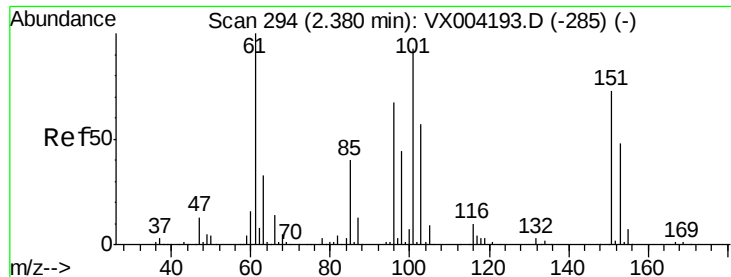
45 96.0 48.3 144.8



Abundance Ion 74.00 (73.70 to 74.70): VX0

Ion 45.00 (44.70 to 45.70): VX0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 4.77 ug/l

RT: 2.38 min Scan# 294

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

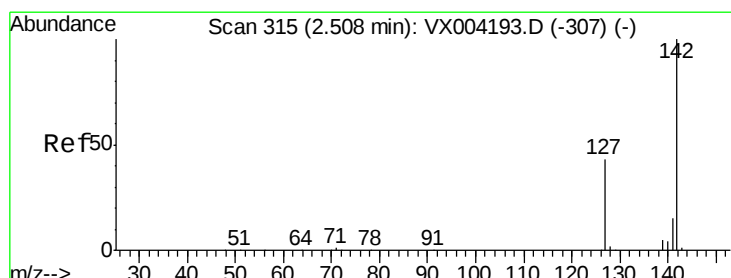
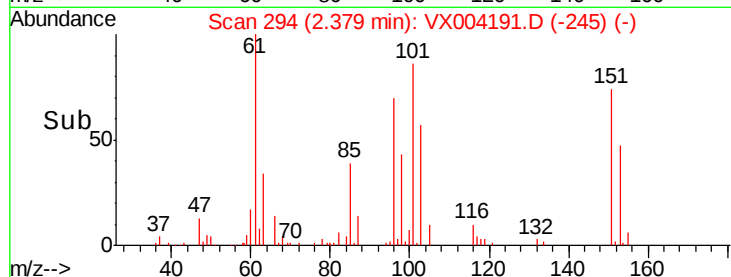
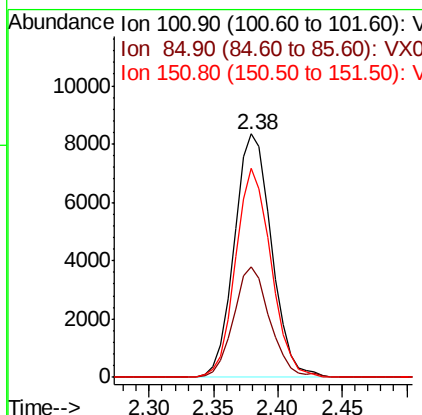
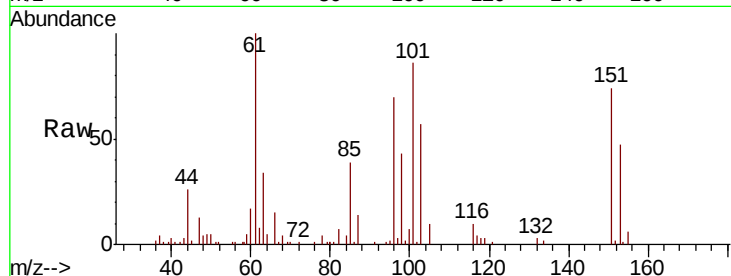
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	16675
Ion Ratio	Lower	Upper	
101	100		
85	44.5	34.2	51.4
151	81.9	65.0	97.6

Manual Integrations
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8/23/2018 9:39:41 AM



#10

Methyl Iodide

Concen: 3.54 ug/l

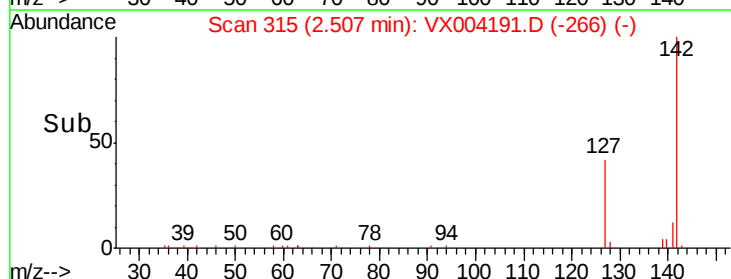
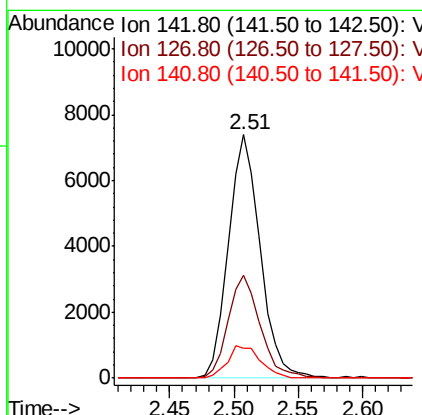
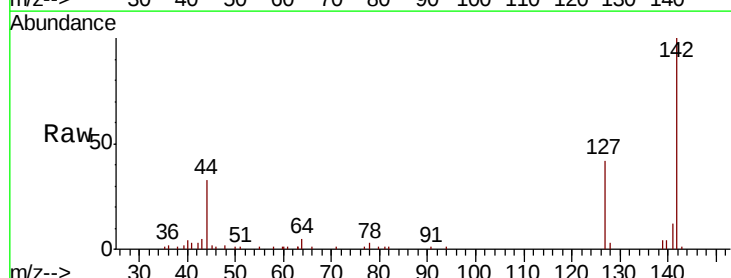
RT: 2.51 min Scan# 315

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Tgt Ion:	142	Resp:	12732
Ion Ratio	Lower	Upper	
142	100		
127	42.6	33.8	50.6
141	13.7	11.4	17.0





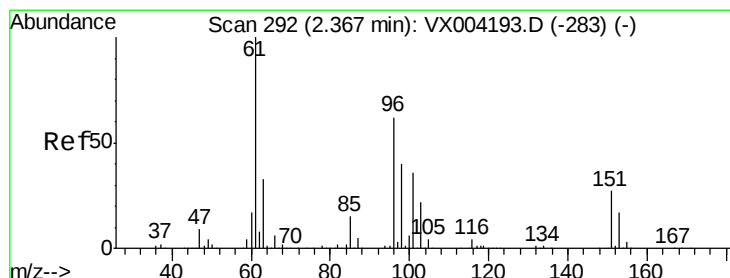
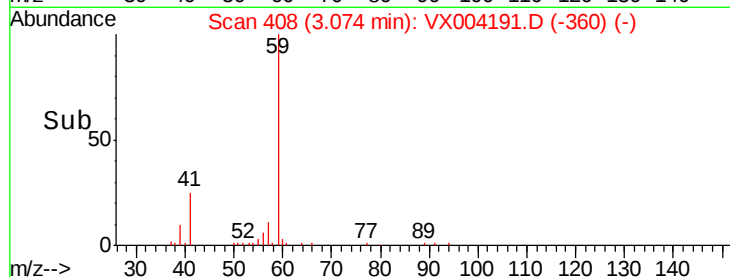
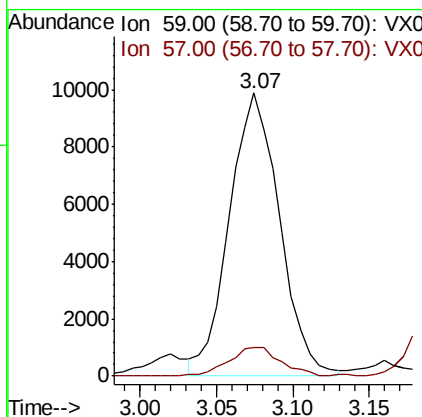
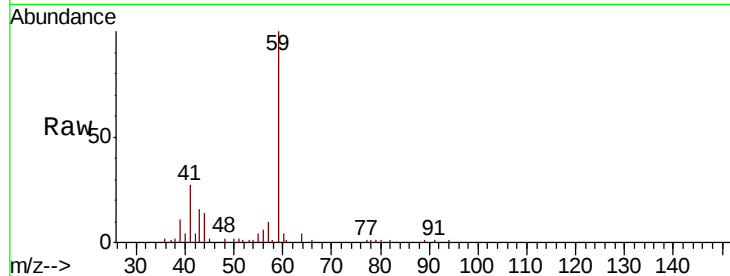
#11
Tert butyl alcohol
Concen: 26.11 ug/l
RT: 3.07 min Scan# 408
Delta R.T. -0.01 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.6	8.2	12.4

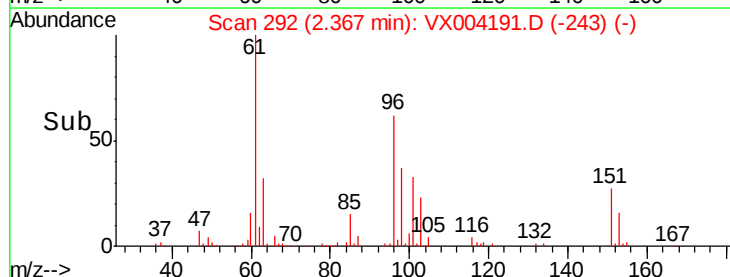
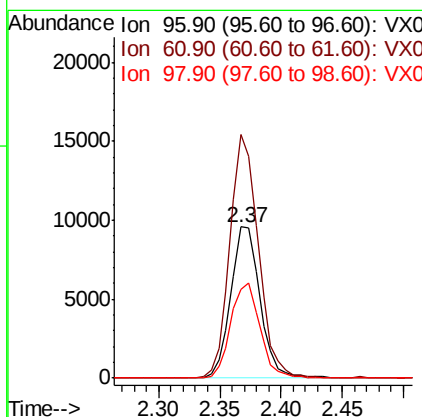
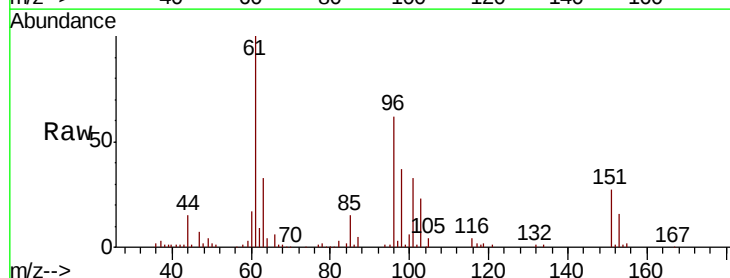
Manual Integrations
APPROVED

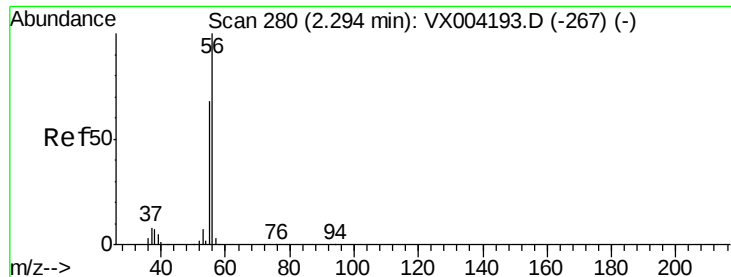
MMDadoda
8/23/2018 9:39:41 AM



#12
1,1-Dichloroethene
Concen: 4.81 ug/l
RT: 2.37 min Scan# 292
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
96	100		
61	161.1	128.8	193.2
98	59.1	52.2	78.2





#13

Acrolein

Concen: 27.64 ug/l

RT: 2.29 min Scan# 280

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 56 Resp: 5761

Ion Ratio Lower Upper

56 100

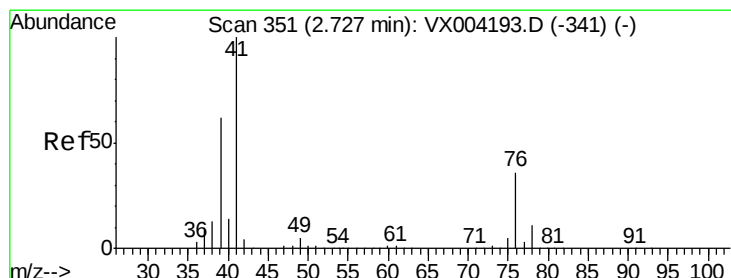
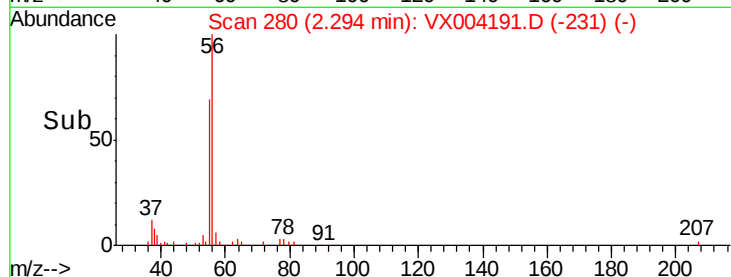
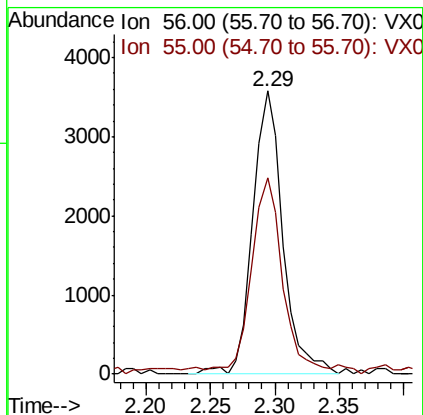
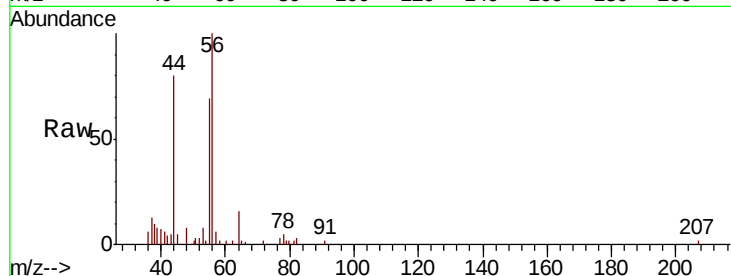
55 72.6 54.7 82.1

Manual Integrations

APPROVED

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8/23/2018 9:39:41 AM



#14

Allyl chloride

Concen: 4.90 ug/l

RT: 2.72 min Scan# 350

Delta R.T. -0.01 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

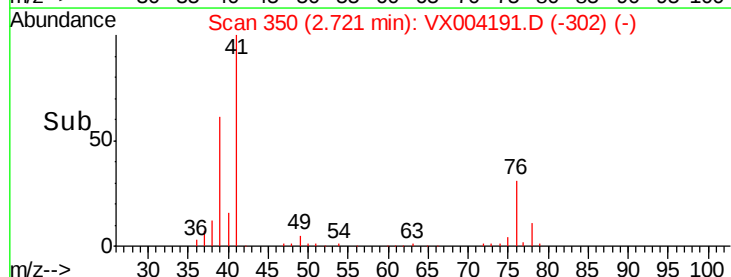
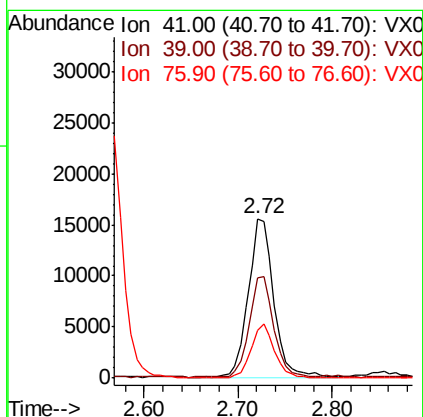
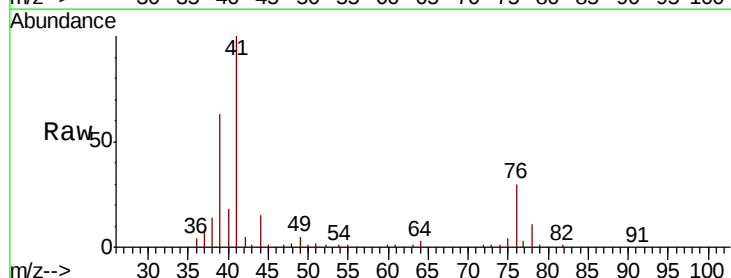
Tgt Ion: 41 Resp: 29656

Ion Ratio Lower Upper

41 100

39 60.2 48.9 73.3

76 31.7 26.7 40.1





#15

Acrylonitrile

Concen: 25.32 ug/l

RT: 3.15 min Scan# 420

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

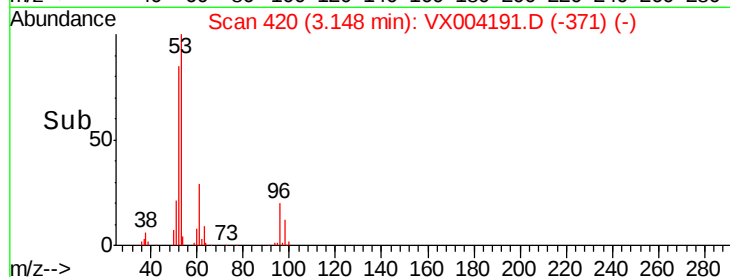
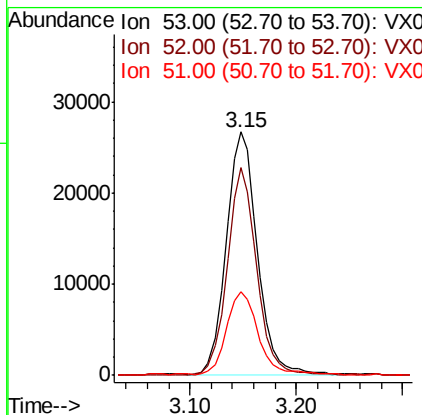
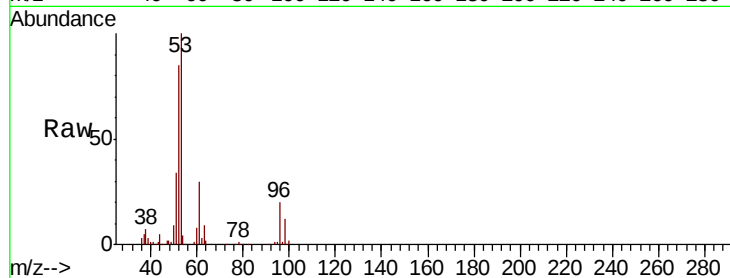
ClientSampleId :

VSTDIC005

Tot Ion:	53	Resp:	54214
Ion	Ratio	Lower	Upper
53	100		
52	80.2	65.2	97.8
51	35.4	28.2	42.2

Manual Integrations
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MMDadoda
8/23/2018 9:39:41 AM



#16

Acetone

Concen: 29.10 ug/l

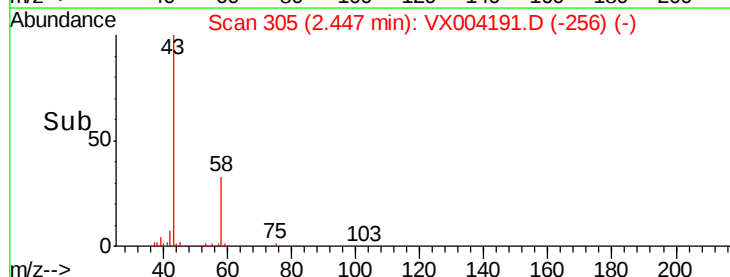
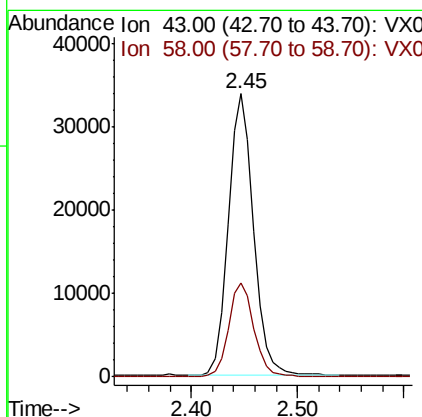
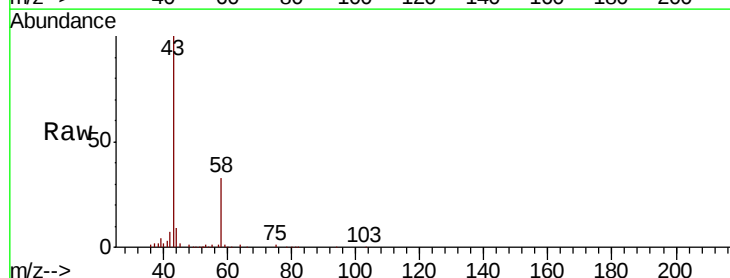
RT: 2.45 min Scan# 305

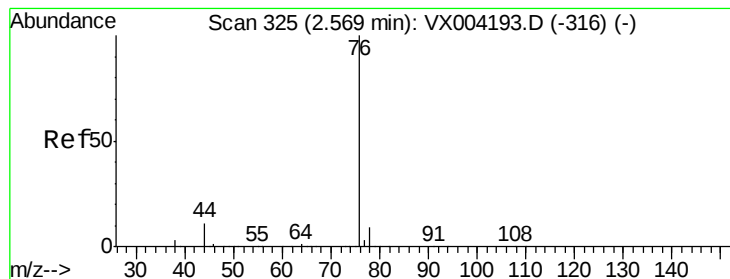
Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Tgt Ion:	43	Resp:	56065
Ion	Ratio	Lower	Upper
43	100		
58	33.1	26.2	39.4





#17

Carbon Disulfide

Concen: 4.07 ug/l

RT: 2.57 min Scan# 325

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 39459

Ion Ratio Lower Upper

76 100

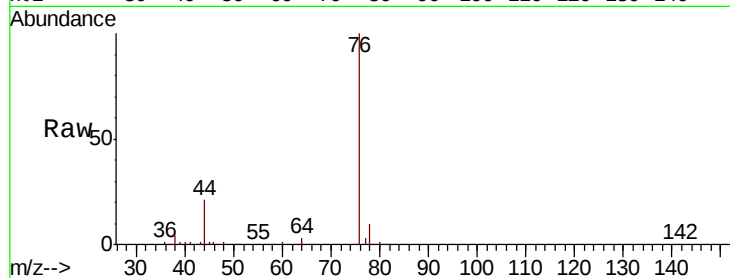
78 9.2 7.0 10.6

Manual Integrations

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Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

25000

20000

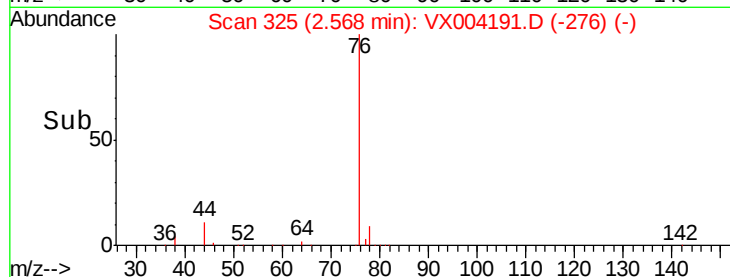
15000

10000

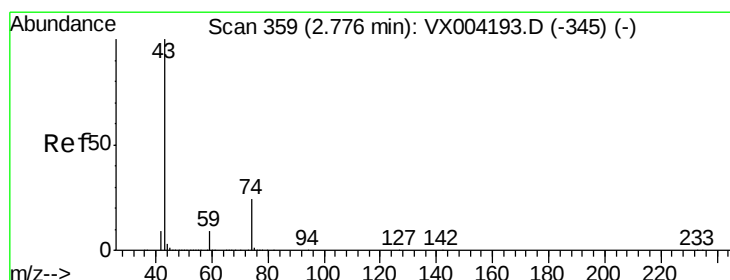
5000

0

Time-->



Time-->



#18

Methyl Acetate

Concen: 4.66 ug/l

RT: 2.78 min Scan# 359

Delta R.T. -0.00 min

Lab File: VX004191.D

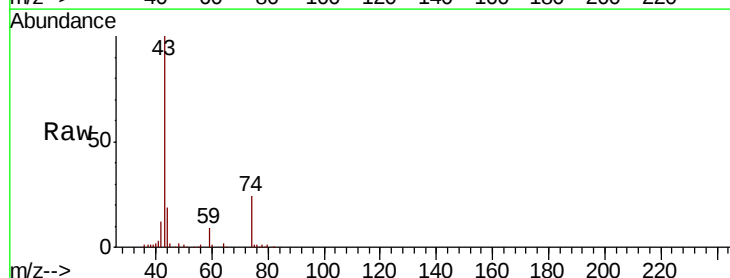
Acq: 22 Aug 2018 10:48

Tgt Ion: 43 Resp: 28024

Ion Ratio Lower Upper

43 100

74 25.5 19.4 29.2



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

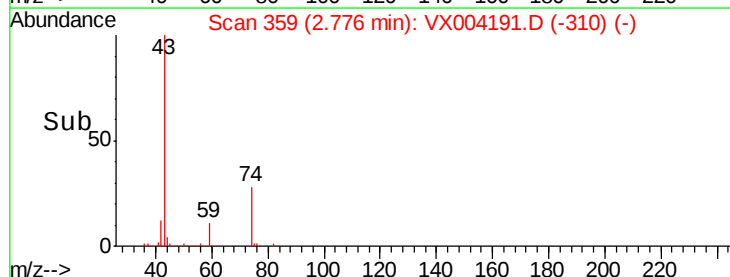
15000

10000

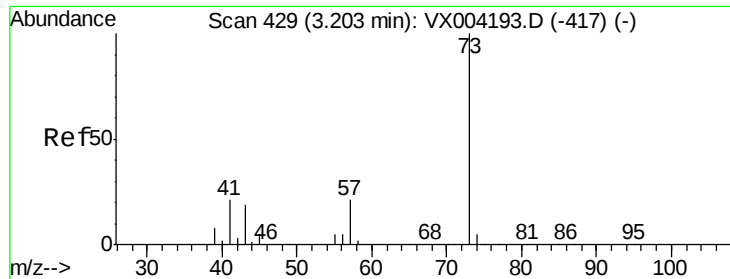
5000

0

Time-->



Time-->



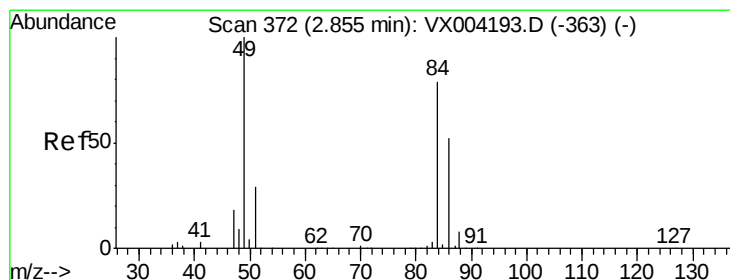
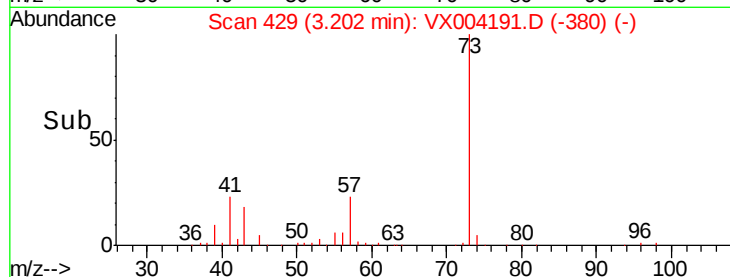
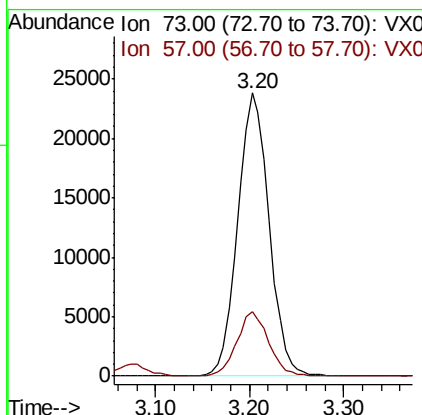
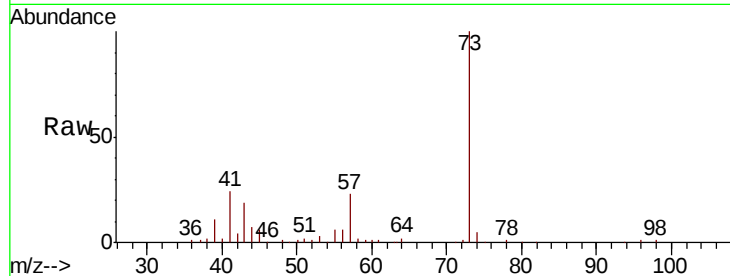
#19
Methvl tert-butvl Ether
Concen: 5.09 ug/l
RT: 3.20 min Scan# 429
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion: 73 Resp: 55312
Ion Ratio Lower Upper
73 100
57 22.6 17.1 25.7

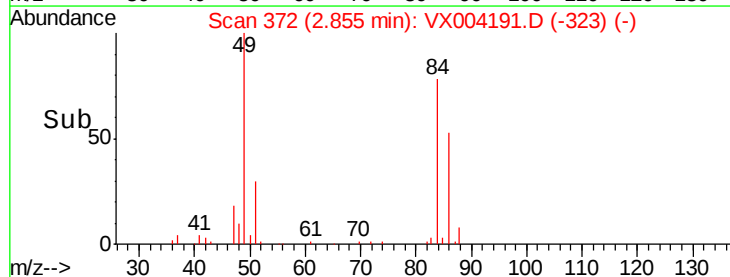
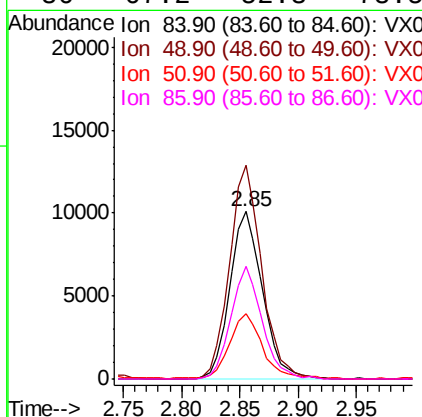
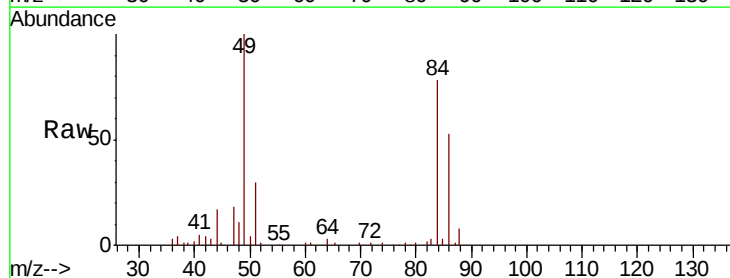
Manual Integrations
APPROVED

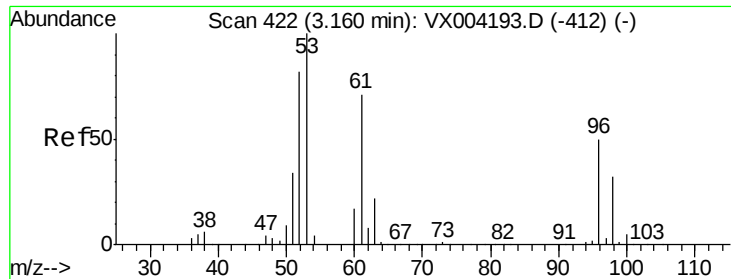
MMDadoda
8/23/2018 9:39:41 AM



#20
Methylene Chloride
Concen: 5.06 ug/l
RT: 2.85 min Scan# 372
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion: 84 Resp: 19754
Ion Ratio Lower Upper
84 100
49 127.6 101.2 151.8
51 38.0 29.5 44.3
86 67.2 52.3 78.5





#21

trans-1,2-Dichloroethene

Concen: 4.75 ug/l

RT: 3.16 min Scan# 422

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 96 Resp: 17336

Ion Ratio Lower Upper

96 100

61 146.2 113.8 170.6

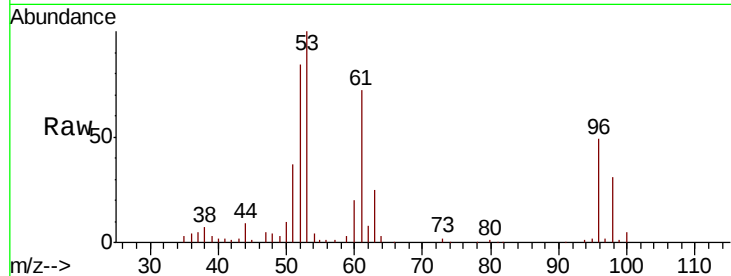
98 63.2 51.8 77.8

Manual Integrations

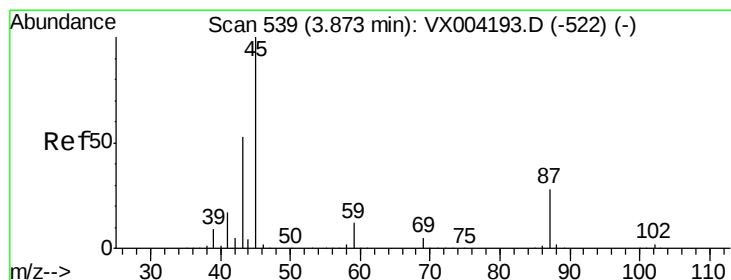
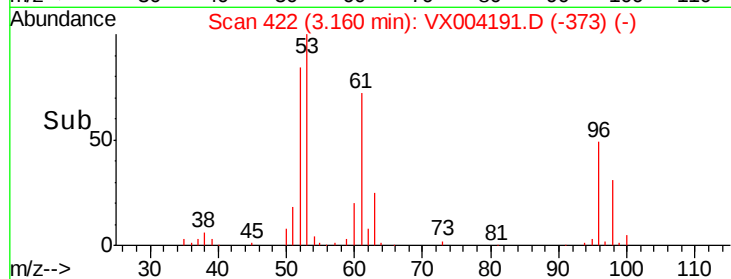
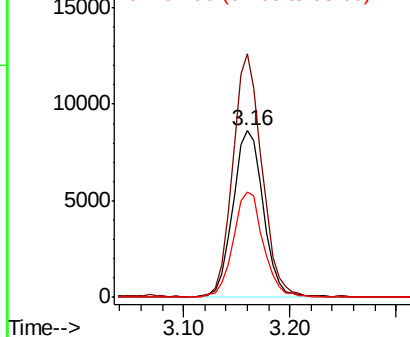
APPROVED

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8/23/2018 9:39:41 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: 5.12 ug/l

RT: 3.87 min Scan# 538

Delta R.T. -0.01 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Tgt Ion: 45 Resp: 57837

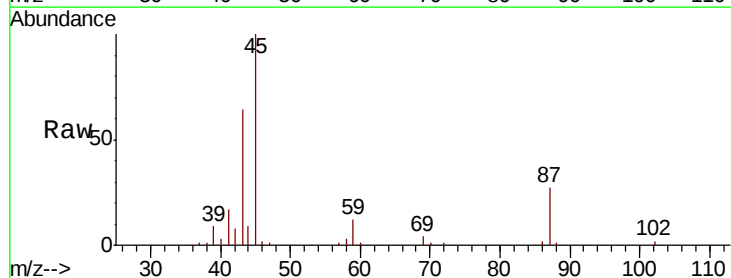
Ion Ratio Lower Upper

45 100

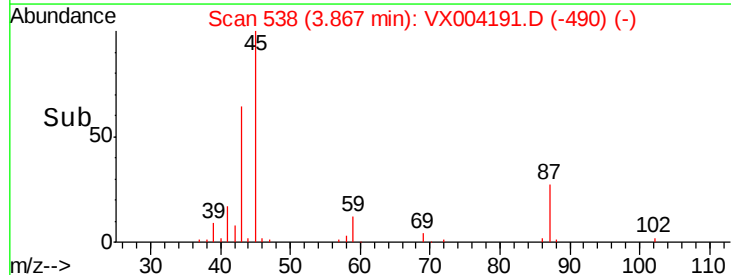
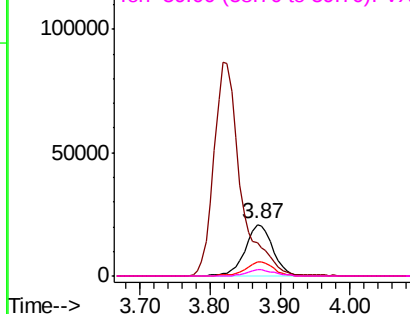
43 62.9 42.8 64.2

87 27.1 22.6 34.0

59 12.1 9.6 14.4



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





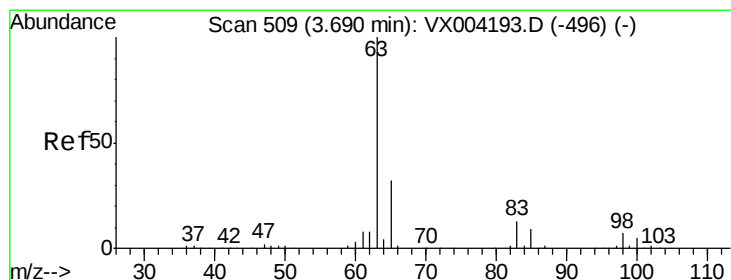
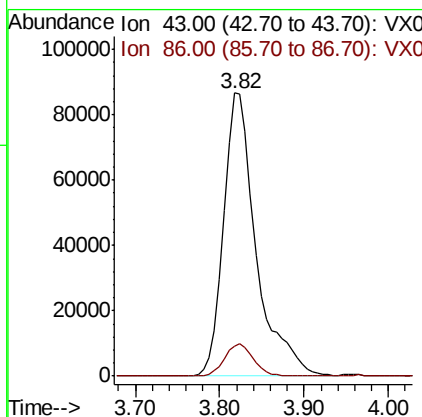
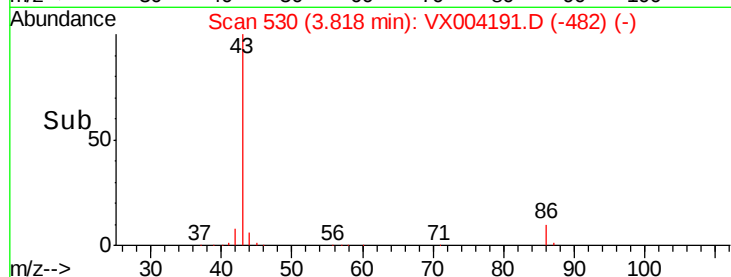
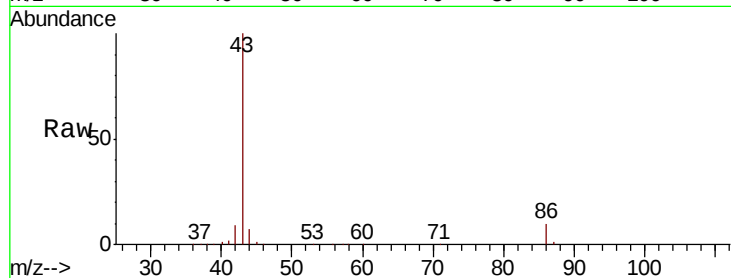
#23
 Vinyl Acetate
 Concen: 25.05 ug/l
 RT: 3.82 min Scan# 530
 Delta R.T. -0.01 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
86	10.4	8.9	13.3

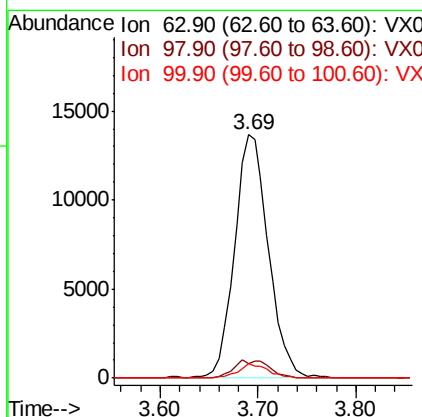
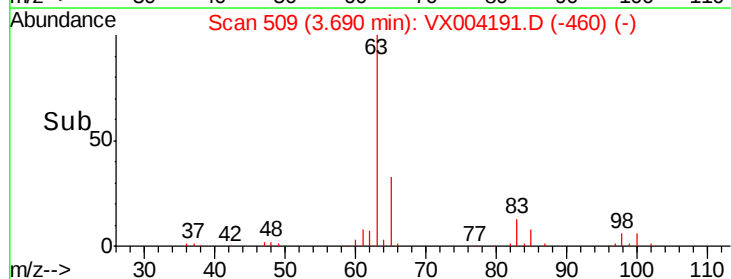
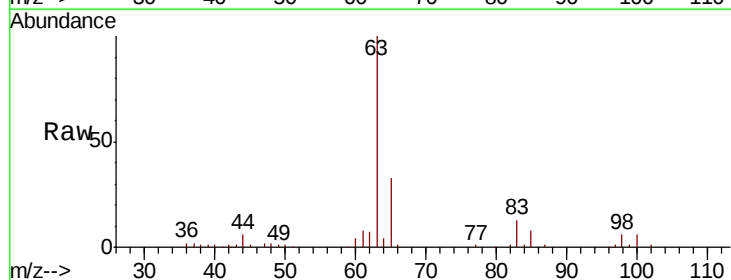
Manual Integrations
 APPROVED

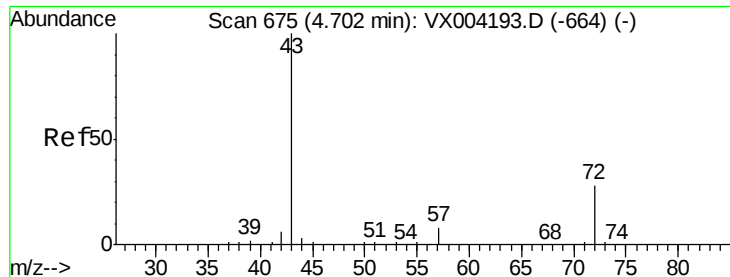
MMDadoda
 8/23/2018 9:39:41 AM



#24
 1,1-Dichloroethane
 Concen: 4.96 ug/l
 RT: 3.69 min Scan# 509
 Delta R.T. -0.00 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
63	100		
98	6.1	3.5	10.4
100	5.8	2.4	7.1





#25

2-Butanone

Concen: 28.52 ug/l

RT: 4.70 min Scan# 675

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 85817

Ion Ratio Lower Upper

43 100

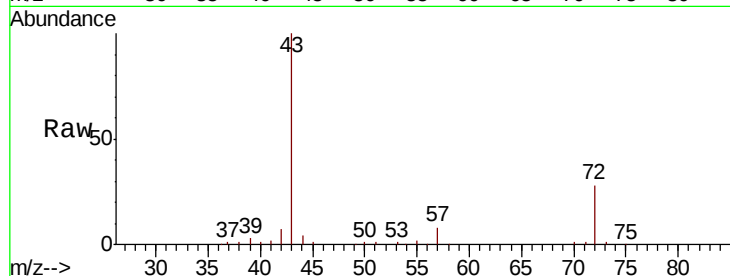
72 27.7 22.0 33.0

Manual Integrations

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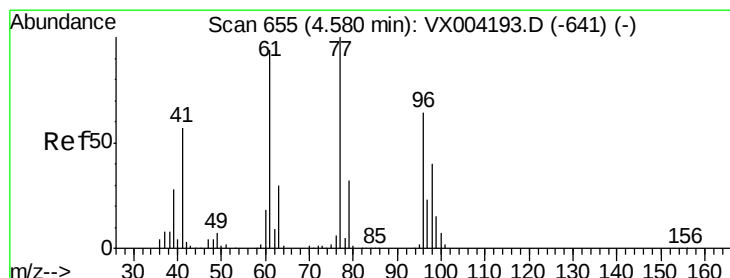
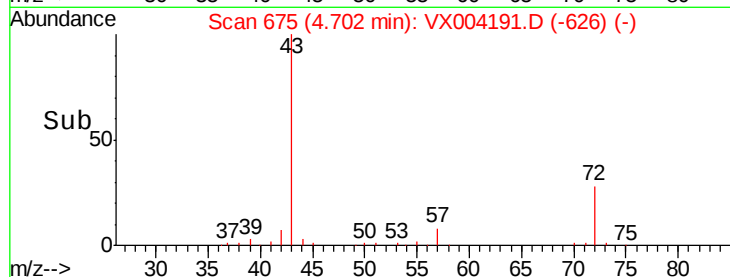
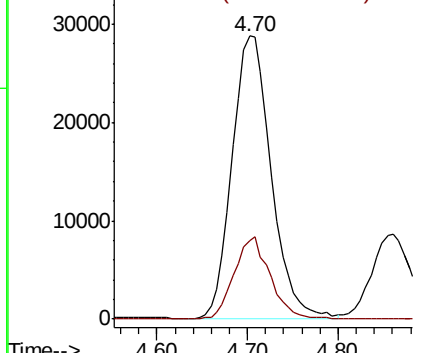
MMDadoda

8/23/2018 9:39:41 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 72.00 (71.70 to 72.70): VX0



#26

2,2-Dichloropropane

Concen: 4.96 ug/l

RT: 4.58 min Scan# 655

Delta R.T. -0.00 min

Lab File: VX004191.D

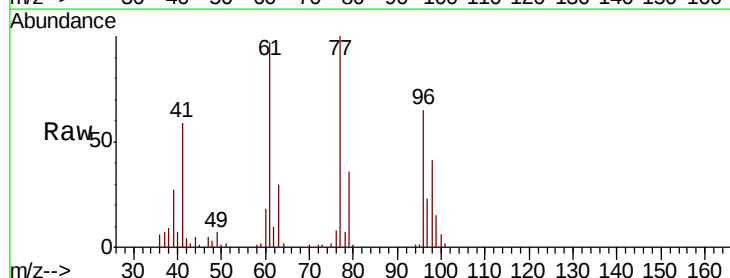
Acq: 22 Aug 2018 10:48

Tgt Ion: 77 Resp: 25638

Ion Ratio Lower Upper

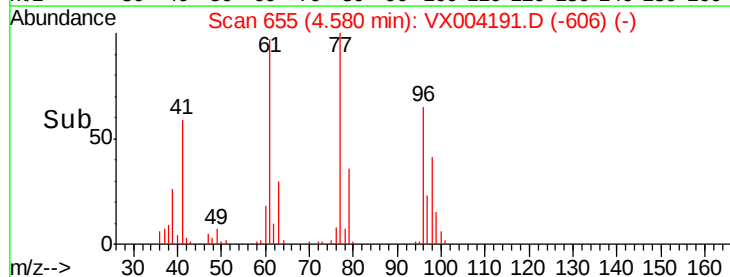
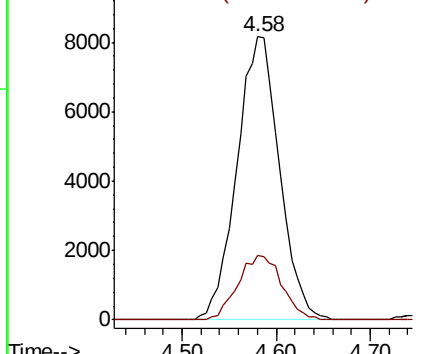
77 100

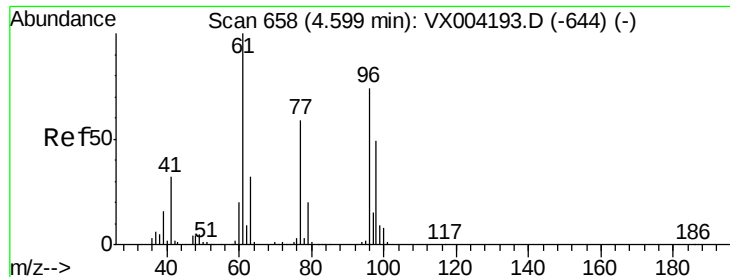
97 23.5 11.7 35.0



Abundance Ion 76.90 (76.60 to 77.60): VX0

Ion 96.90 (96.60 to 97.60): VX0





#27

cis-1,2-Dichloroethene

Concen: 4.95 ug/l

RT: 4.60 min Scan# 658

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

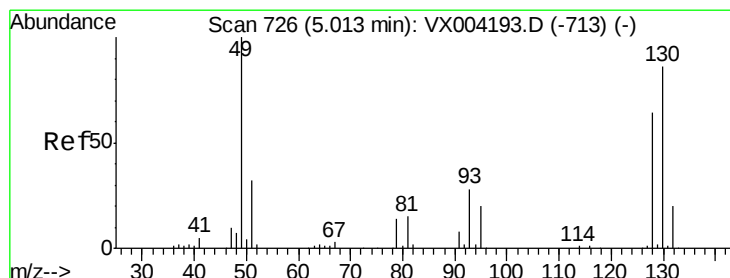
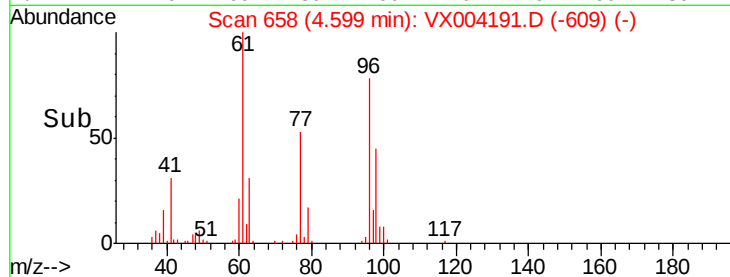
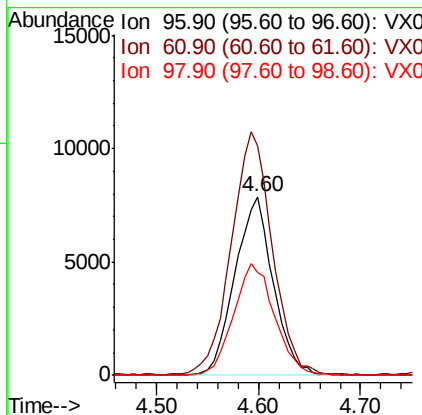
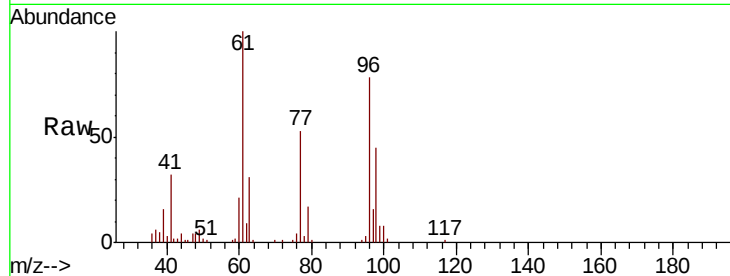
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	20483
Ion	Ratio	Lower	Upper
96	100		
61	147.0	0.0	282.6
98	67.1	0.0	130.2

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#28

Bromochloromethane

Concen: 5.20 ug/l

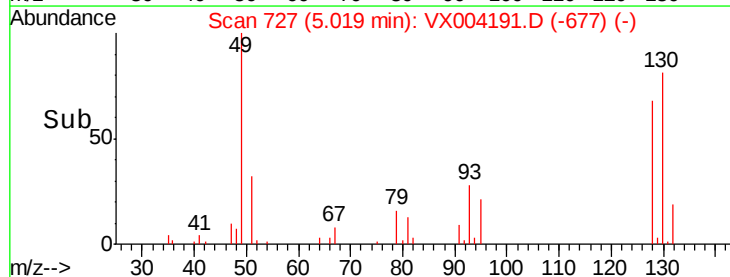
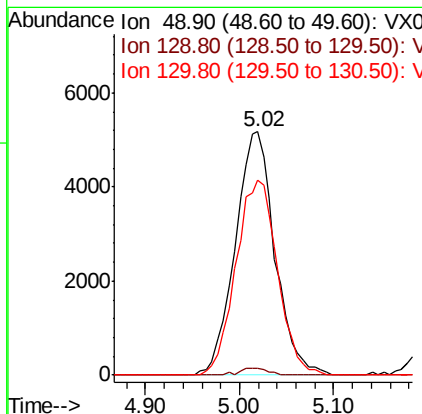
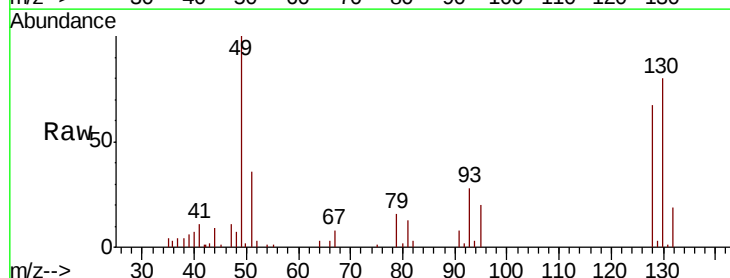
RT: 5.02 min Scan# 727

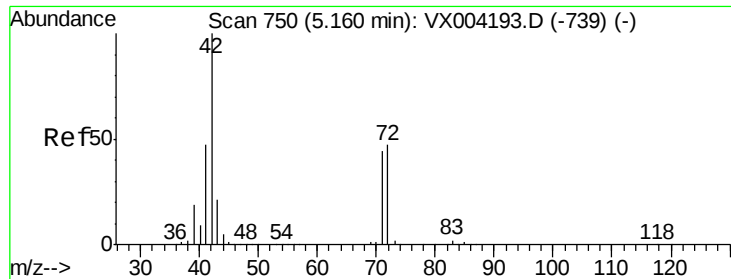
Delta R.T. 0.01 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Tgt Ion:	49	Resp:	15175
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.2
130	83.8	67.5	101.3





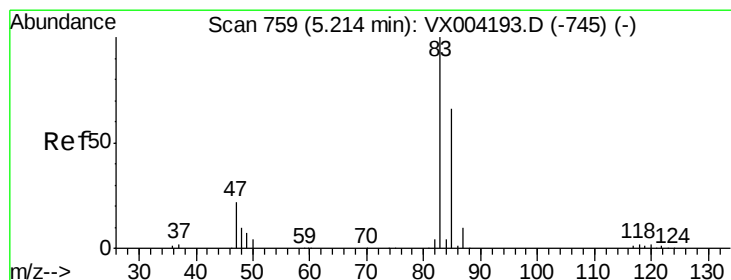
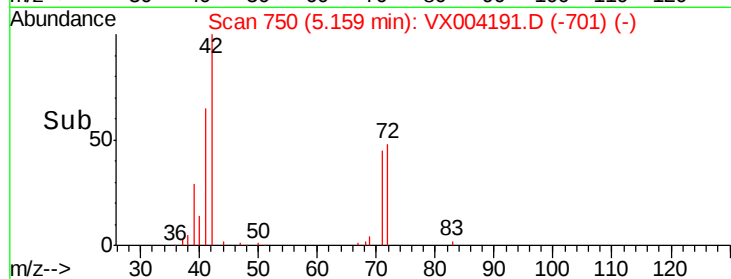
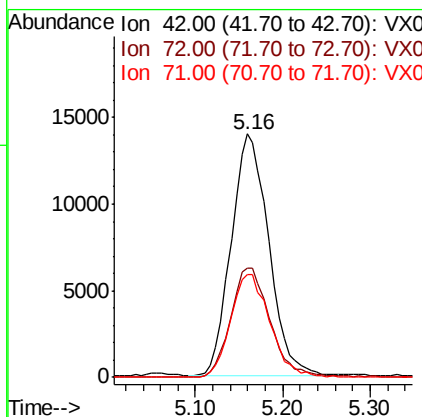
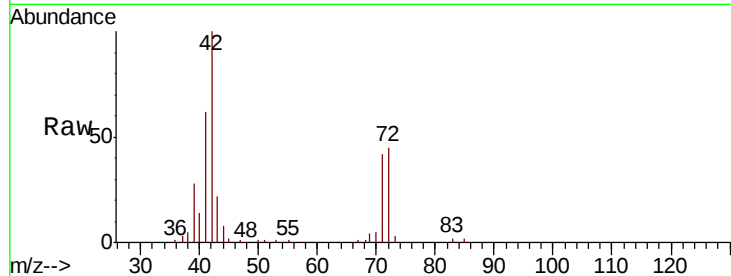
#29
Tetrahydrofuran
Concen: 23.96 ug/l
RT: 5.16 min Scan# 750
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
42	100		
72	47.2	37.4	56.0
71	44.4	34.5	51.7

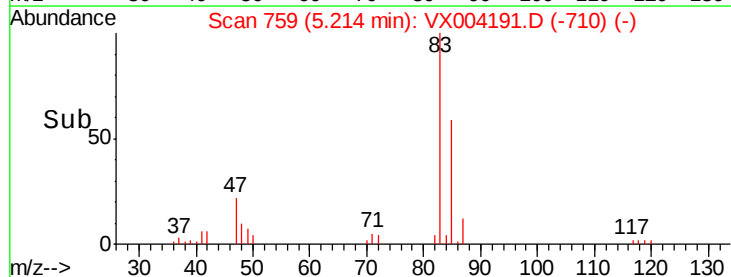
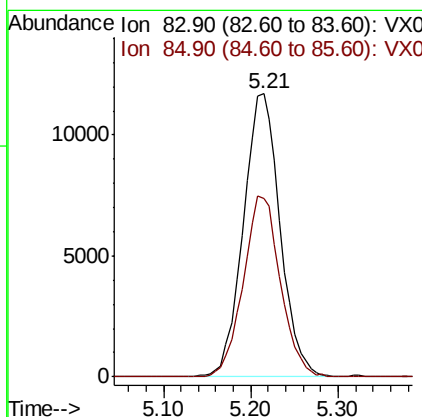
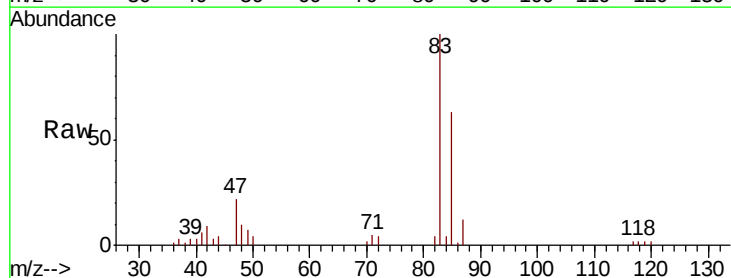
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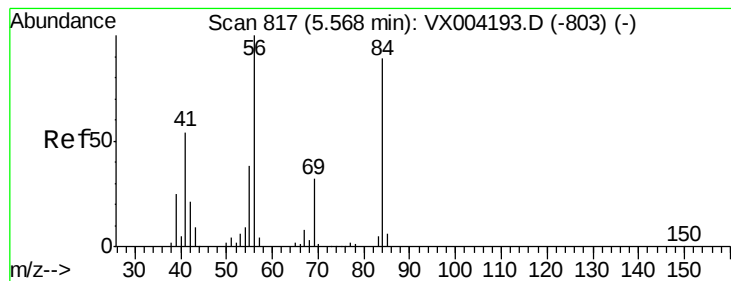
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#30
Chloroform
Concen: 5.17 ug/l
RT: 5.21 min Scan# 759
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
83	100		
85	63.0	52.6	79.0





#31

Cyclohexane

Concen: 4.62 ug/l

RT: 5.57 min Scan# 818

Delta R.T. 0.01 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

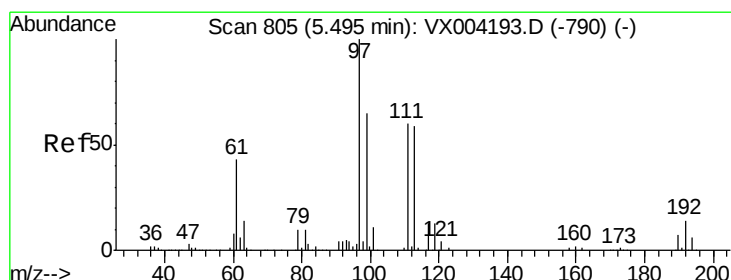
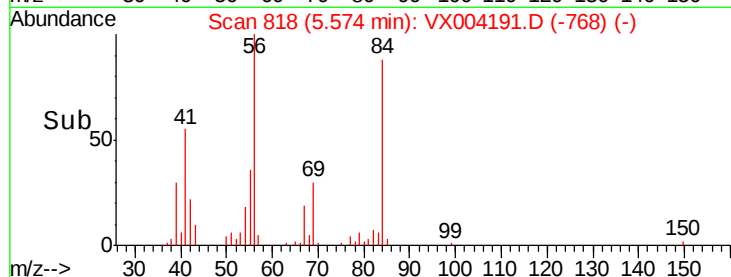
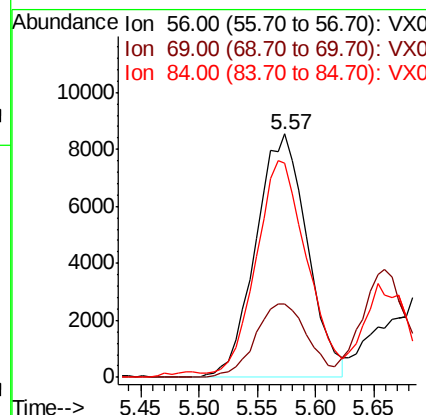
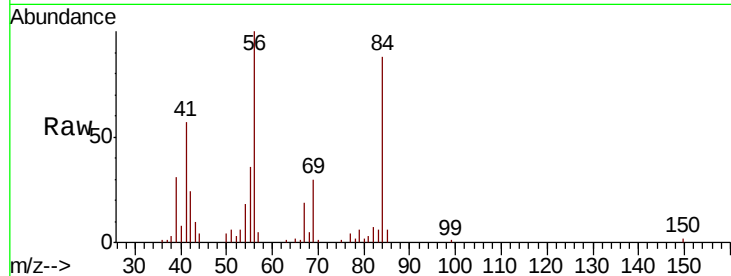
ClientSampleId :

VSTDIC005

Tot Ion:	56	Resp:	26257
Ion Ratio	Lower	Upper	
56	100		
69	29.9	25.4	38.2
84	85.5	71.4	107.2

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#32

1,1,1-Trichloroethane

Concen: 4.99 ug/l

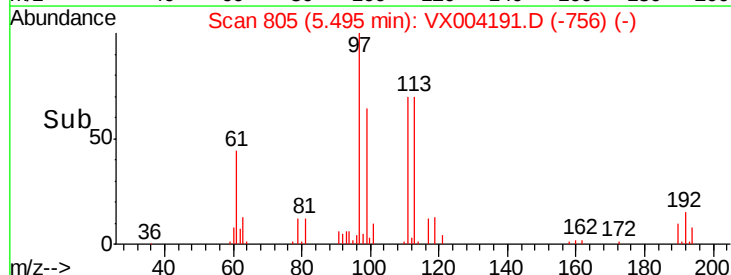
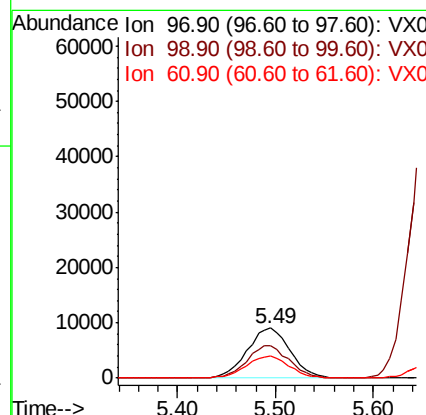
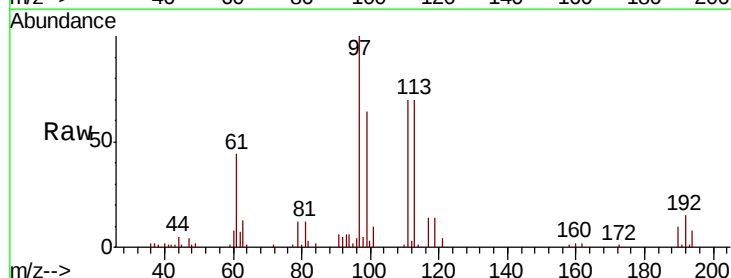
RT: 5.49 min Scan# 805

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Tgt Ion:	97	Resp:	27473
Ion Ratio	Lower	Upper	
97	100		
99	63.8	52.0	78.0
61	44.7	34.9	52.3





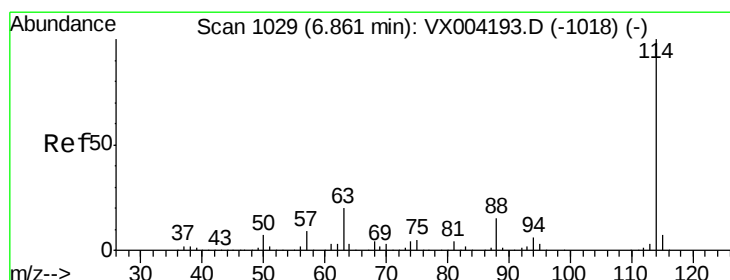
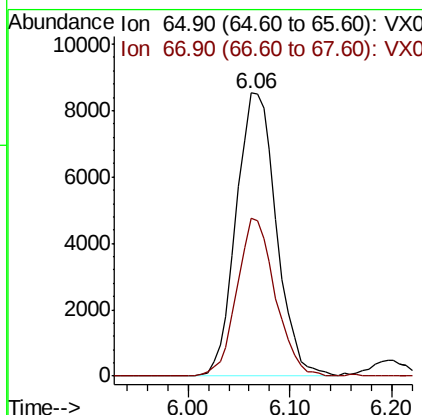
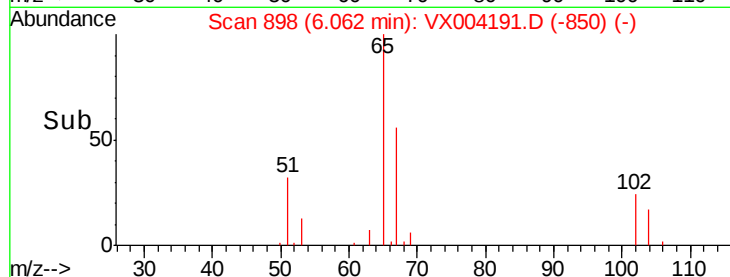
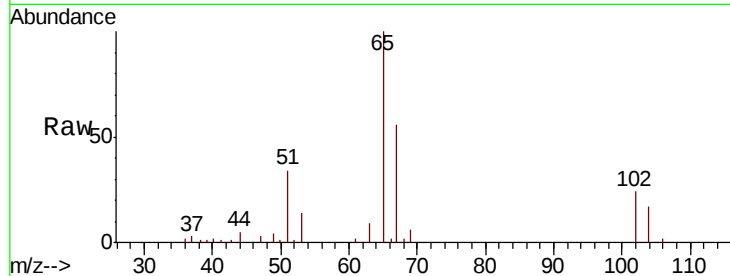
#33
 1,2-Dichloroethane-d4
 Concen: 5.75 ug/l
 RT: 6.06 min Scan# 898
 Delta R.T. -0.01 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	53.1	0.0	106.8

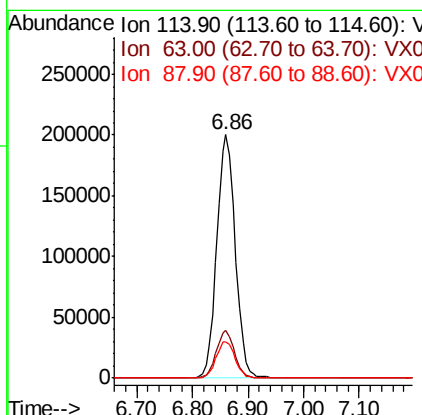
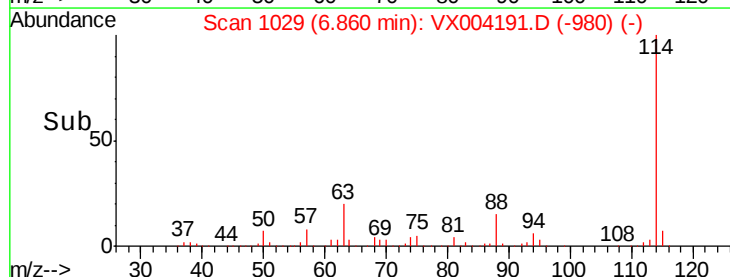
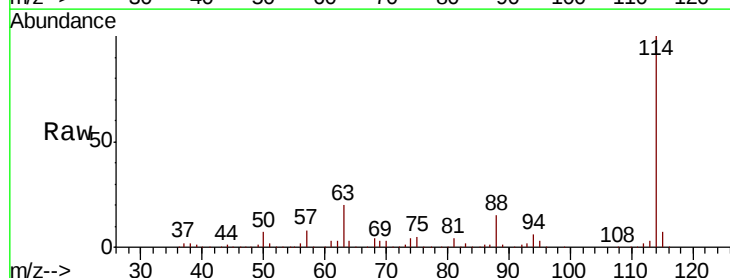
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#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 6.86 min Scan# 1029
 Delta R.T. -0.00 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	39.0
88	15.1	0.0	30.4





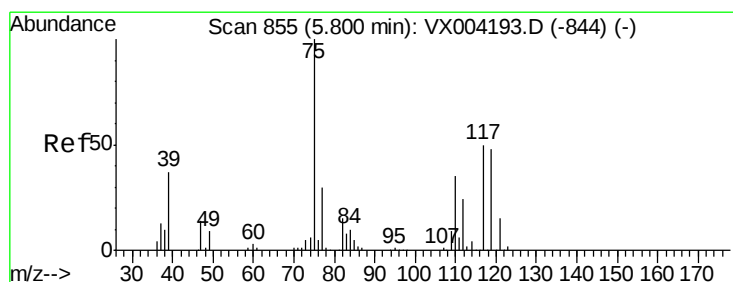
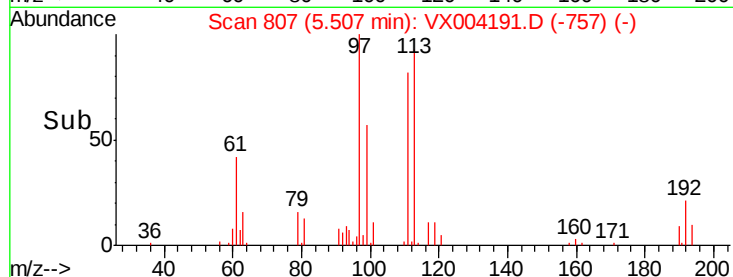
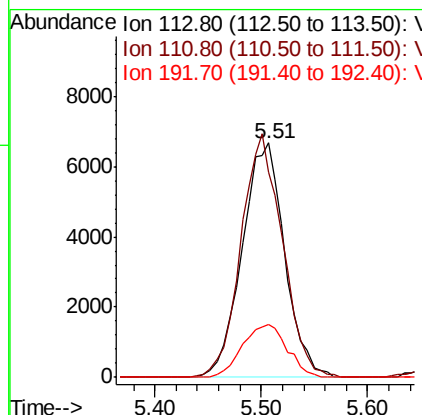
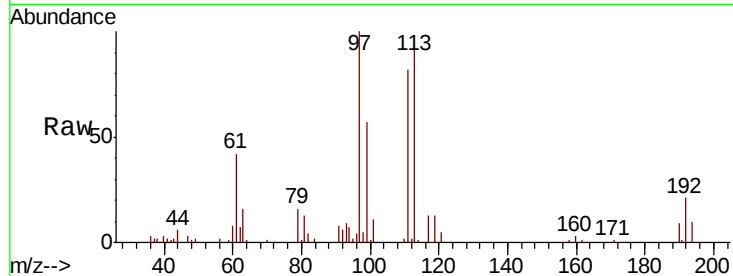
#35
Dibromofluoromethane
Concen: 5.44 ug/l
RT: 5.51 min Scan# 807
Delta R.T. 0.01 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
113	100	18692		
111	101.2	82.4	123.6	
192	23.5	19.4	29.2	

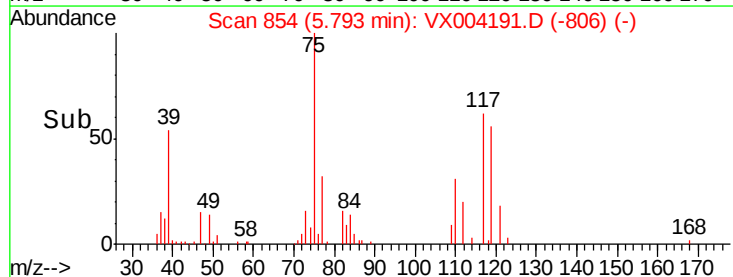
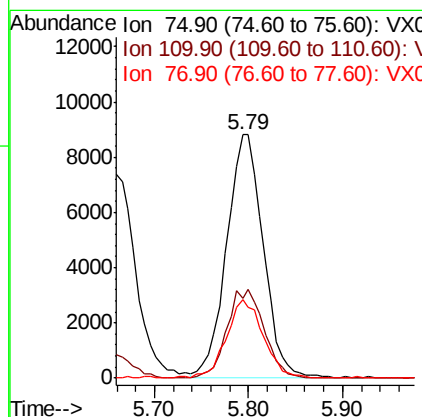
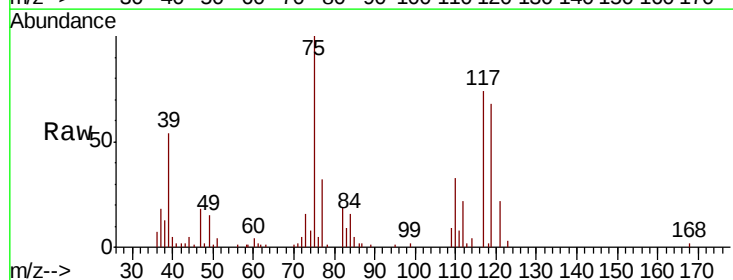
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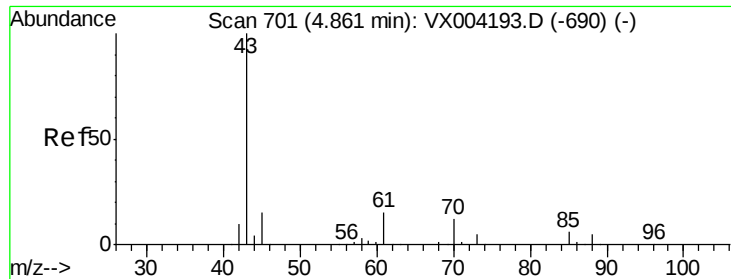
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#36
1,1-Dichloropropene
Concen: 4.61 ug/l
RT: 5.79 min Scan# 854
Delta R.T. -0.01 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	23937		
110	36.7	18.0	54.0	
77	32.5	24.6	36.8	





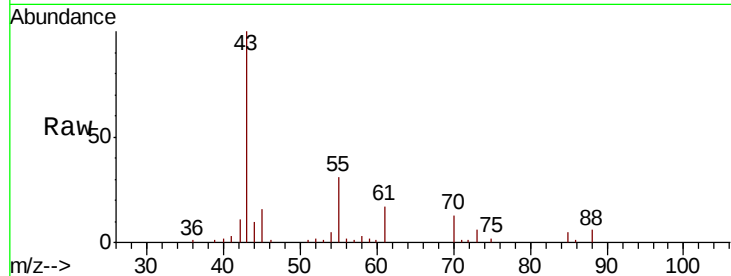
#37
Ethyl Acetate
Concen: 5.20 ug/l
RT: 4.86 min Scan# 701
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.1	11.5	17.3
70	11.3	9.0	13.6

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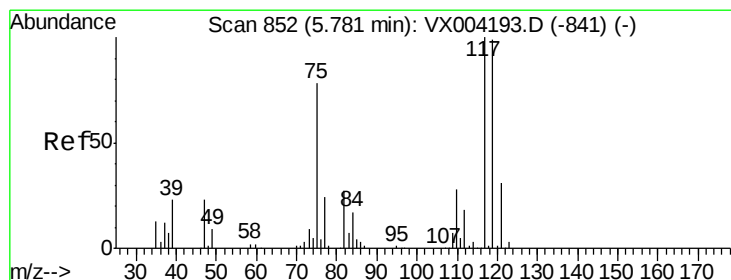
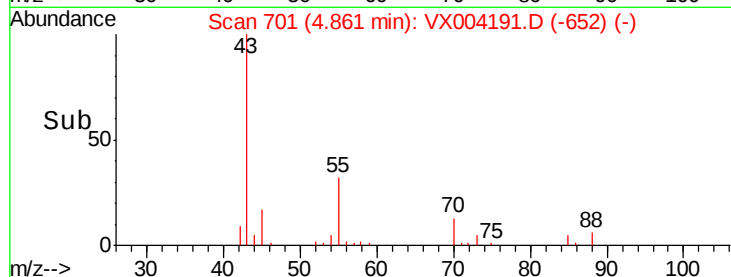
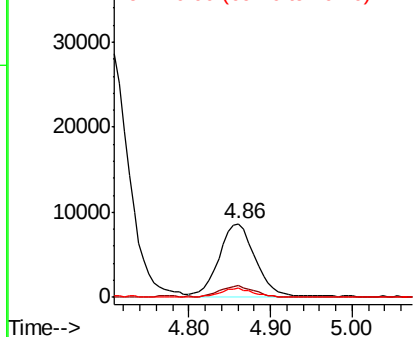


Abundance

Ion 43.00 (42.70 to 43.70): VX0

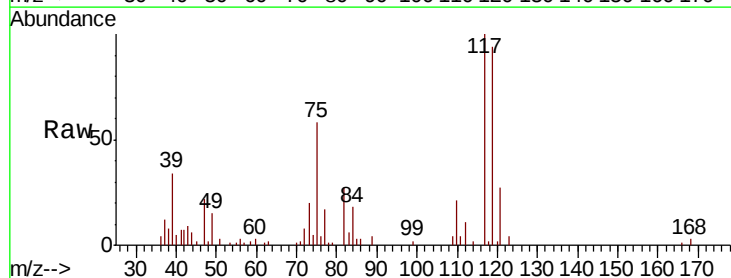
Ion 60.90 (60.60 to 61.60): VX0

Ion 70.00 (69.70 to 70.70): VX0



#38
Carbon Tetrachloride
Concen: 4.74 ug/l
RT: 5.78 min Scan# 851
Delta R.T. -0.01 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.2	78.8	118.2
121	26.6	24.9	37.3

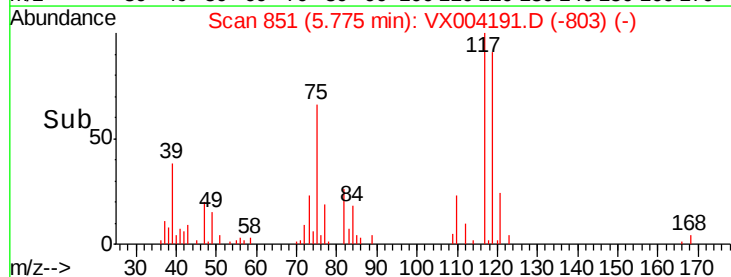
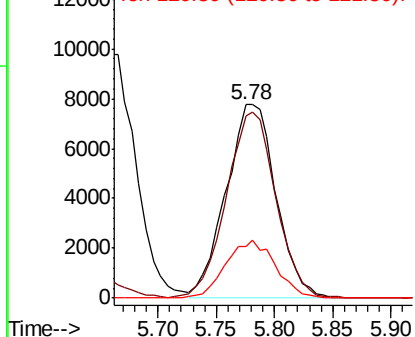


Abundance

Ion 116.80 (116.50 to 117.50): V

Ion 118.80 (118.50 to 119.50): V

Ion 120.80 (120.50 to 121.50): V





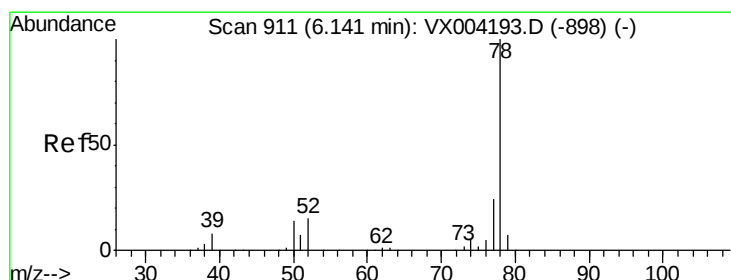
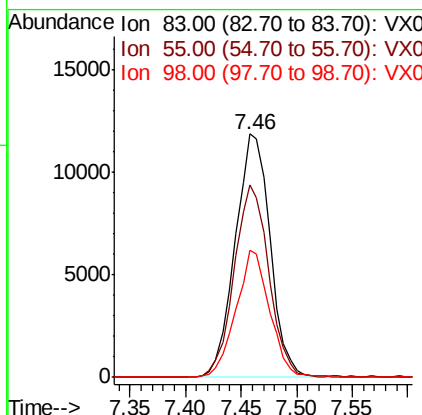
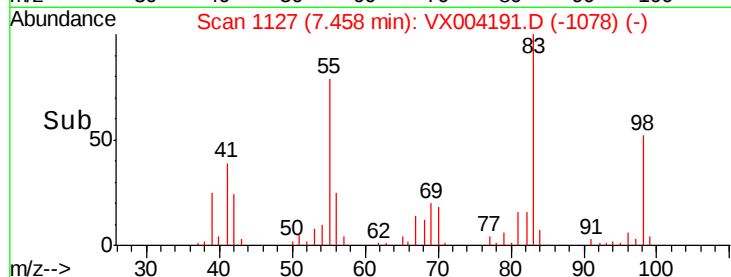
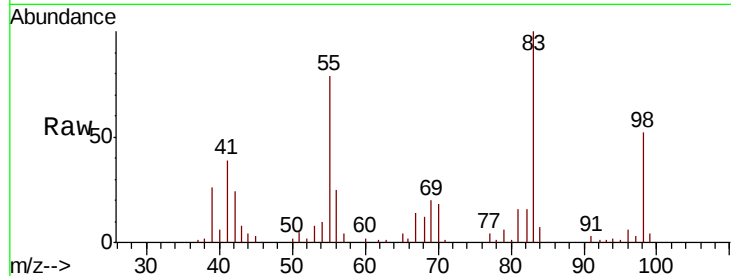
#39
Methvlcvclohexane
Concen: 4.36 ug/l
RT: 7.46 min Scan# 1127
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.0	61.0	91.4
98	52.1	39.6	59.4

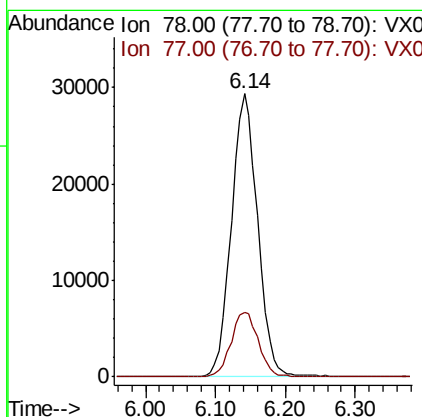
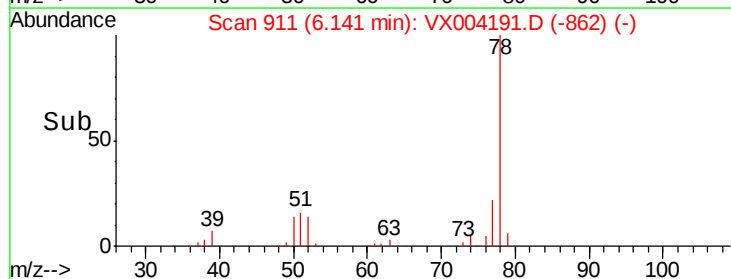
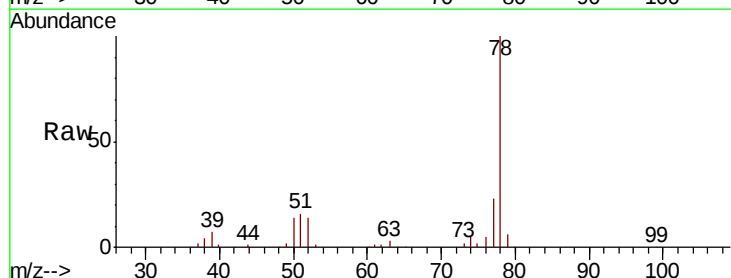
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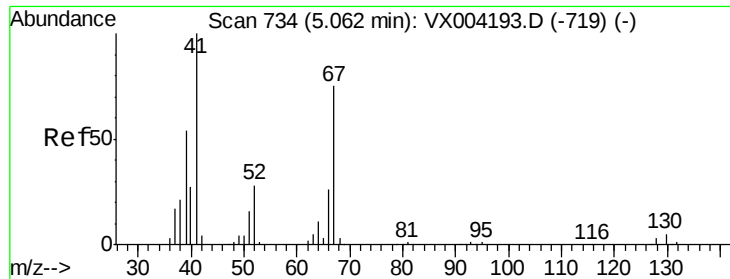
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#40
Benzene
Concen: 4.93 ug/l
RT: 6.14 min Scan# 911
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
78	100		
77	22.9	19.0	28.4





#41

Methacrylonitrile

Concen: 4.91 ug/l

RT: 5.06 min Scan# 733

Delta R.T. -0.01 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

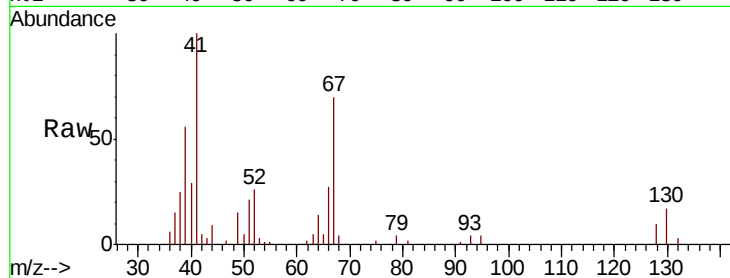
ClientSampleId :

VSTDIC005

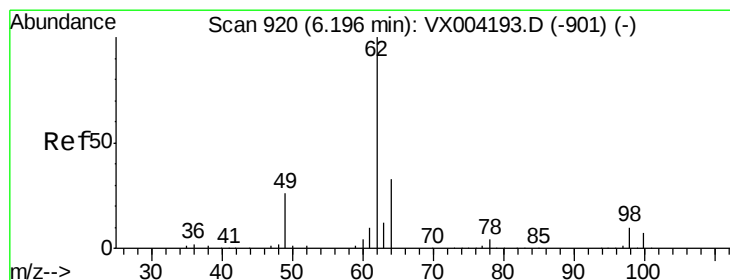
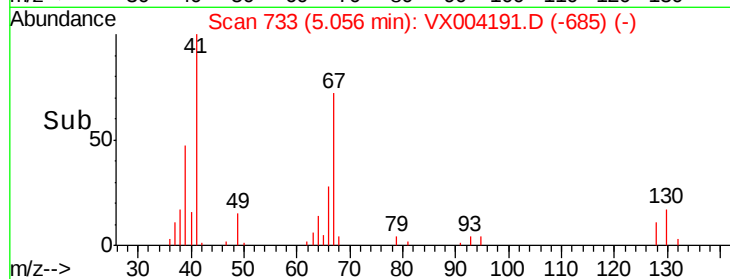
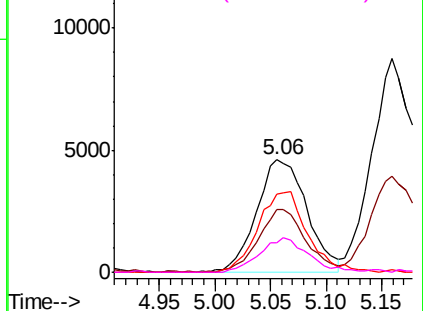
Tot Ion:	41	Resp:	14552
Ion	Ratio	Lower	Upper
41	100		
39	52.5	42.4	63.6
67	69.6	59.2	88.8
52	29.3	23.0	34.4

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Abundance Ion 41.00 (40.70 to 41.70): VX0
Ion 39.00 (38.70 to 39.70): VX0
Ion 67.00 (66.70 to 67.70): VX0
Ion 52.00 (51.70 to 52.70): VX0



#42

1,2-Dichloroethane

Concen: 5.10 ug/l

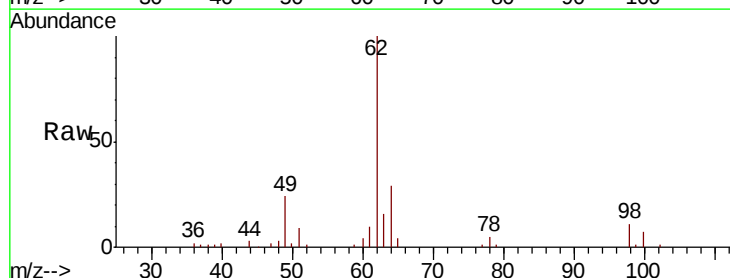
RT: 6.20 min Scan# 920

Delta R.T. -0.00 min

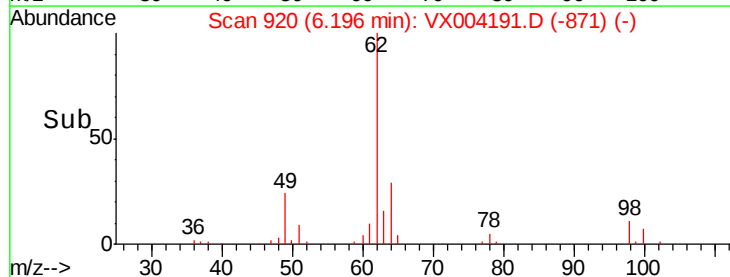
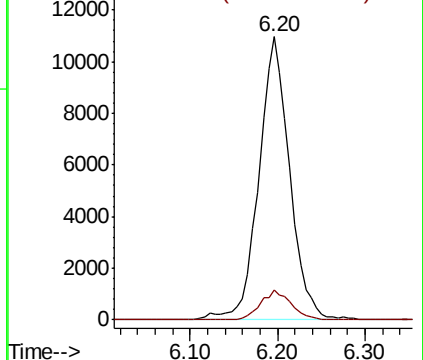
Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Tgt Ion:	62	Resp:	26980
Ion	Ratio	Lower	Upper
62	100		
98	10.3	0.0	20.6



Abundance Ion 61.90 (61.60 to 62.60): VX0
Ion 97.90 (97.60 to 98.60): VX0





#43

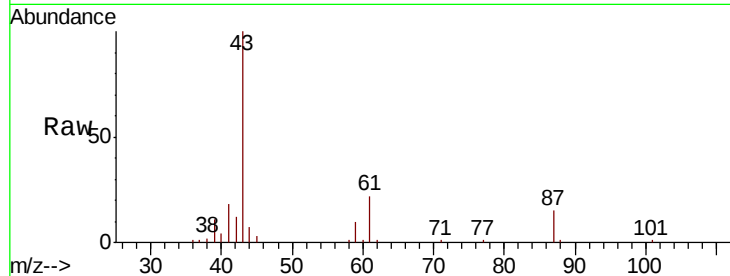
Isopropyl Acetate
 Concen: 4.62 ug/l
 RT: 6.46 min Scan# 964
 Delta R.T. -0.00 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

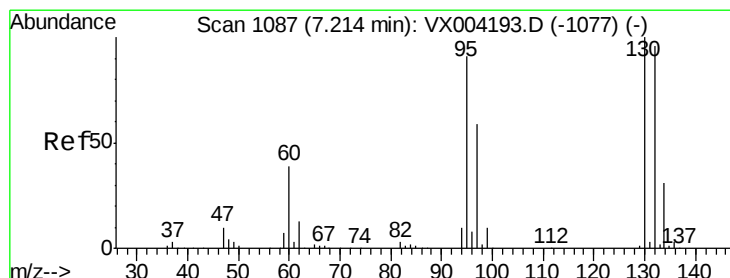
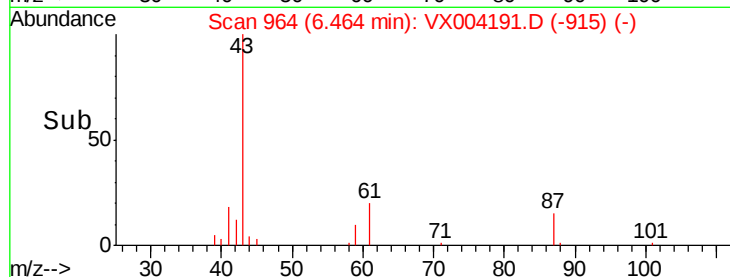
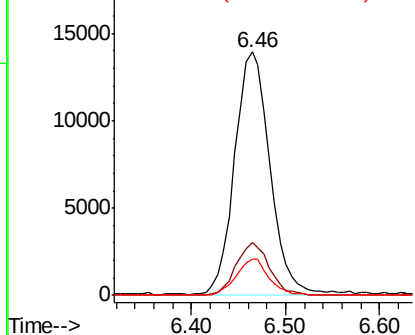
Tot Ion	Ratio	Lower	Upper
43	100		
61	20.5	17.0	25.4
87	13.9	11.4	17.2

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 8/23/2018 9:39:41 AM



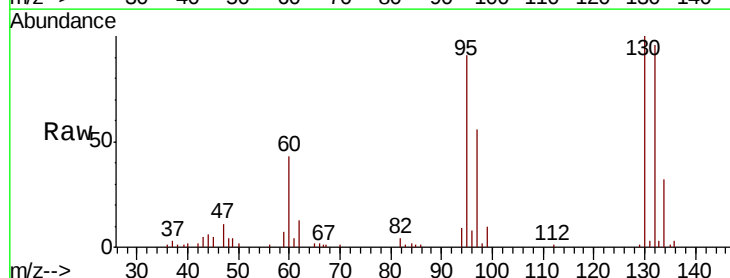
Abundance Ion 43.00 (42.70 to 43.70): VX0
 Ion 61.00 (60.70 to 61.70): VX0
 Ion 87.00 (86.70 to 87.70): VX0



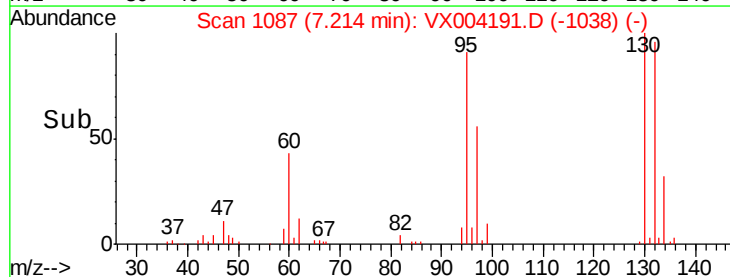
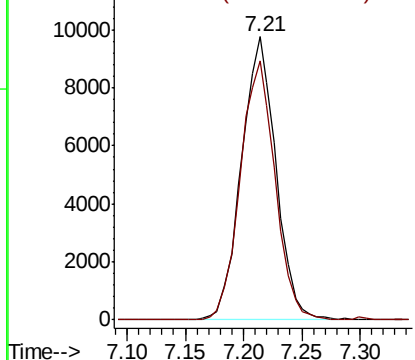
#44

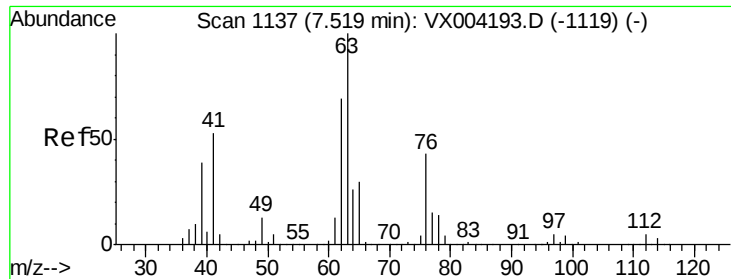
Trichloroethene
 Concen: 4.69 ug/l
 RT: 7.21 min Scan# 1087
 Delta R.T. -0.00 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
130	100		
95	91.4	0.0	181.6



Abundance Ion 129.80 (129.50 to 130.50): V
 Ion 94.90 (94.60 to 95.60): VX0





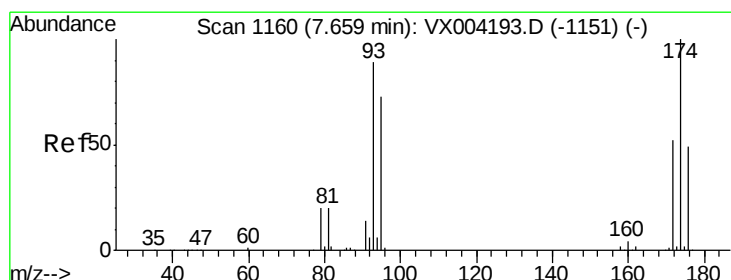
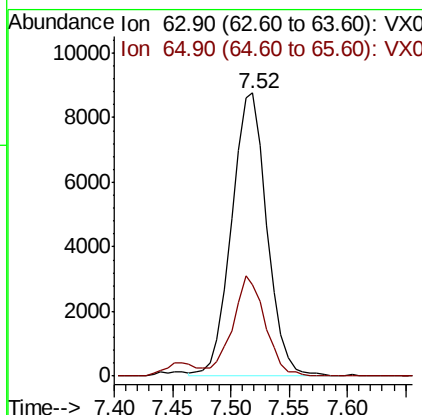
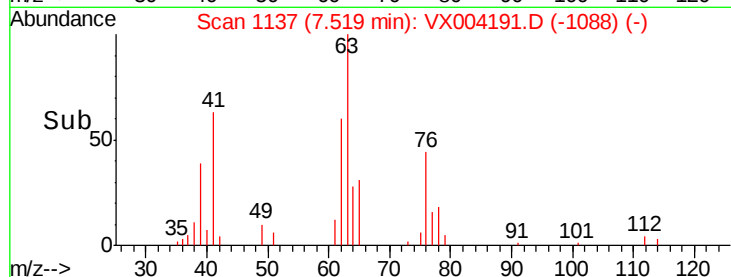
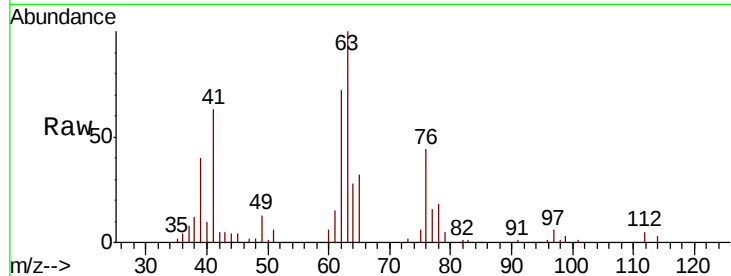
#45
 1,2-Dichloropropane
 Concen: 4.76 ug/l
 RT: 7.52 min Scan# 1137
 Delta R.T. -0.00 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.4	24.3	36.5

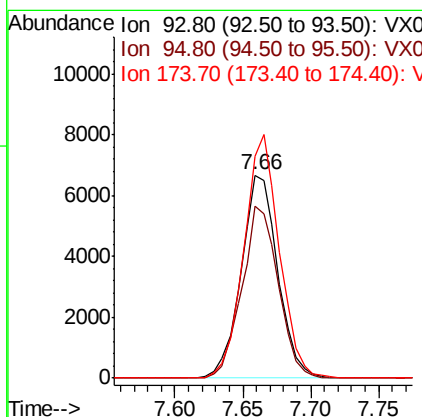
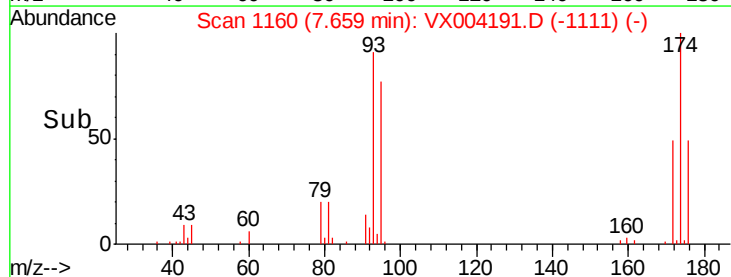
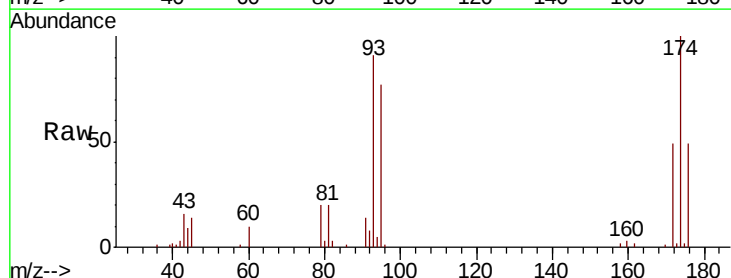
Manual Integrations
 APPROVED

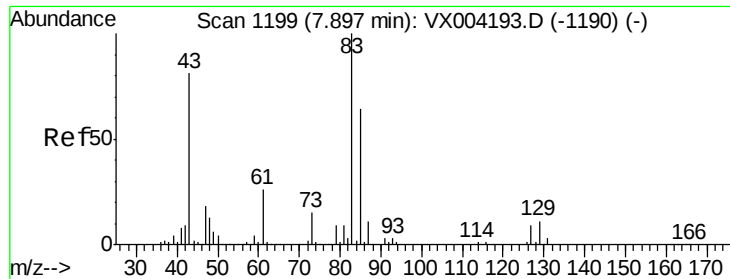
MMDadoda
 8/23/2018 9:39:41 AM



#46
 Dibromomethane
 Concen: 4.85 ug/l
 RT: 7.66 min Scan# 1160
 Delta R.T. -0.00 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.8	65.5	98.3
174	115.8	94.2	141.4





#47

Bromodichloromethane

Concen: 4.66 ug/l

RT: 7.90 min Scan# 1199

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

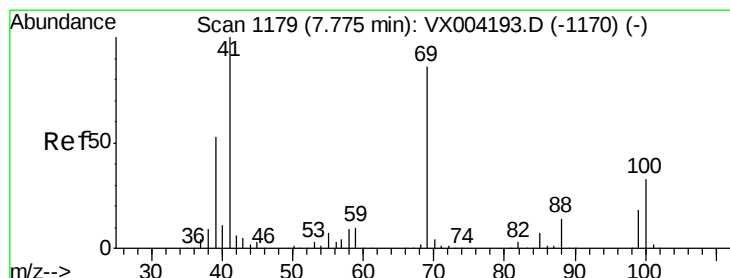
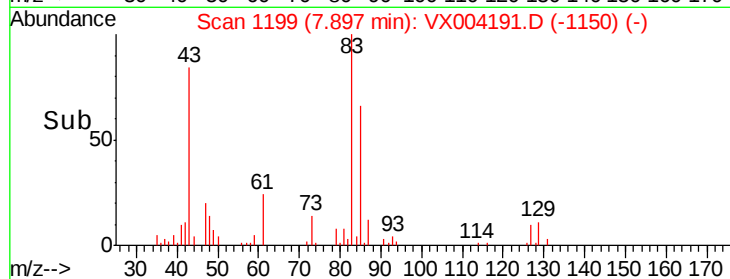
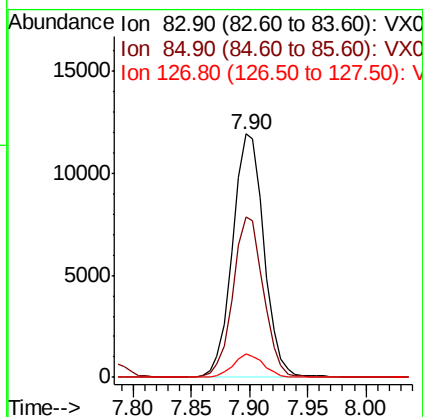
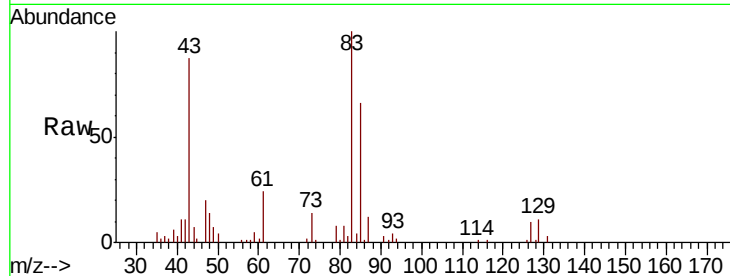
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	22434
Ion	Ratio	Lower	Upper
83	100		
85	66.0	50.9	76.3
127	9.8	7.3	10.9

Manual Integrations
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8/23/2018 9:39:41 AM



#48

Methyl methacrylate

Concen: 4.38 ug/l

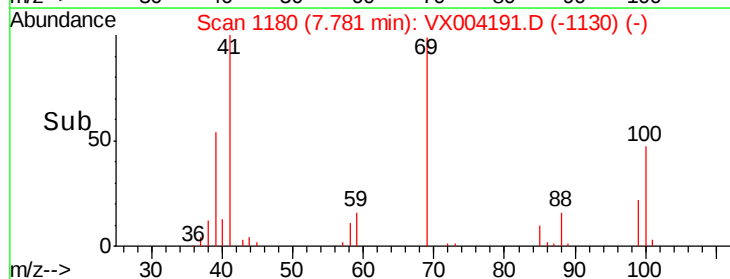
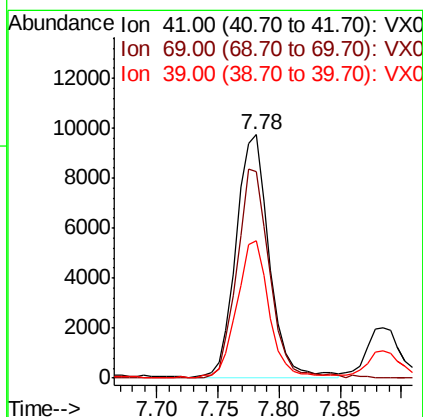
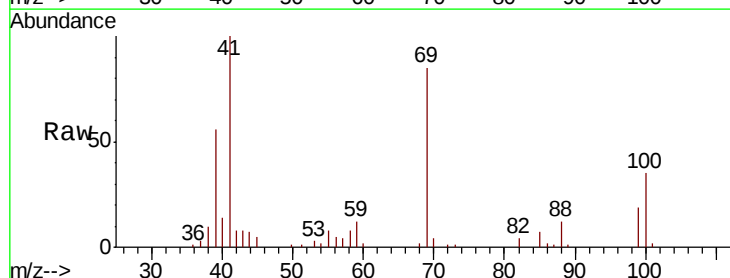
RT: 7.78 min Scan# 1180

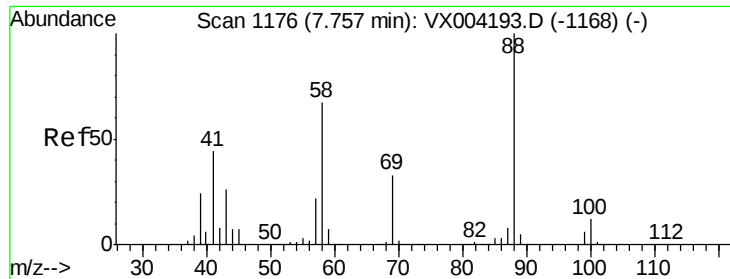
Delta R.T. 0.01 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Tgt Ion:	41	Resp:	18401
Ion	Ratio	Lower	Upper
41	100		
69	83.8	70.2	105.4
39	54.7	42.7	64.1





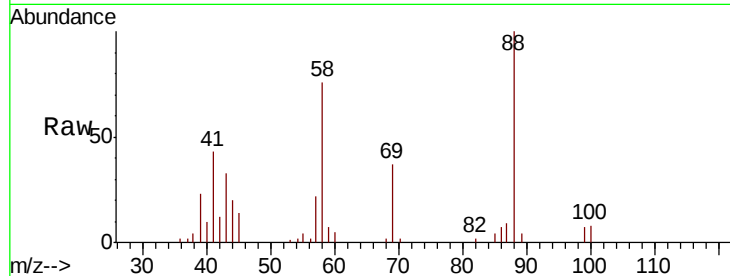
#49
1,4-Dioxane
Concen: 94.18 ug/l
RT: 7.76 min Scan# 1176
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	37.0	24.7	37.1
58	73.9	55.3	82.9

Manual Integrations
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MMDadoda
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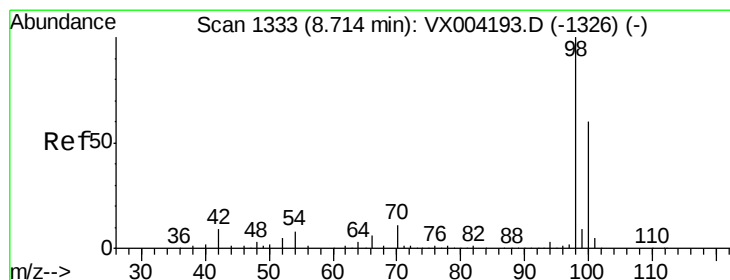
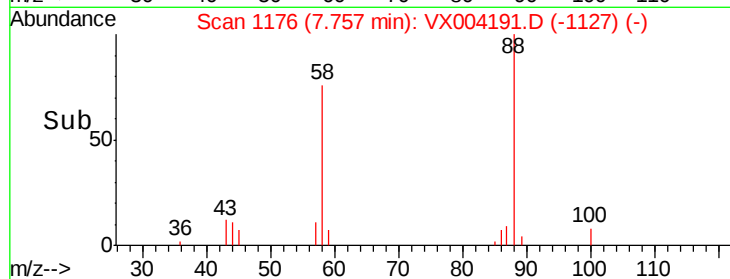
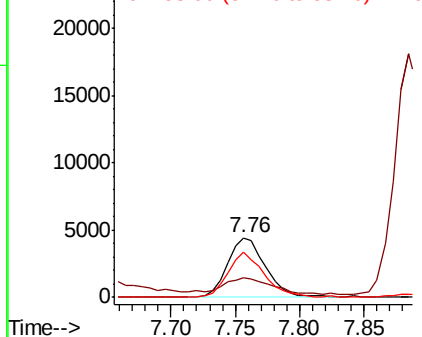


Abundance

Ion 88.00 (87.70 to 88.70): VX0

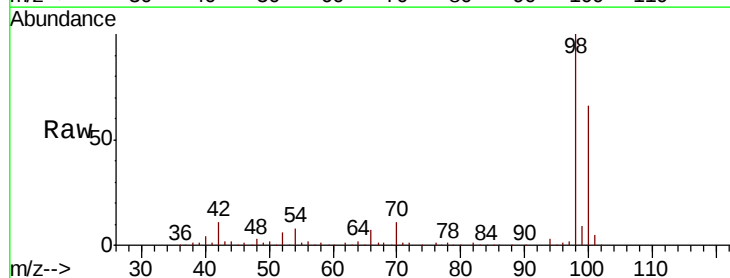
Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#50
Toluene-d8
Concen: 5.13 ug/l
RT: 8.71 min Scan# 1333
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

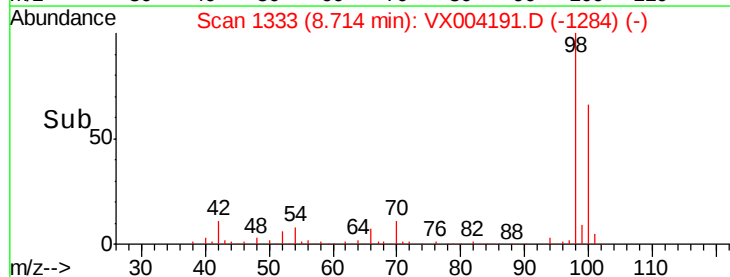
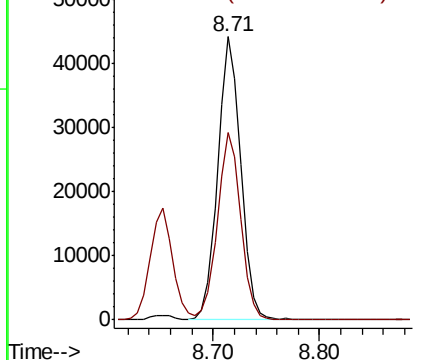
Tgt Ion	Ratio	Lower	Upper
98	100		
100	66.5	52.9	79.3

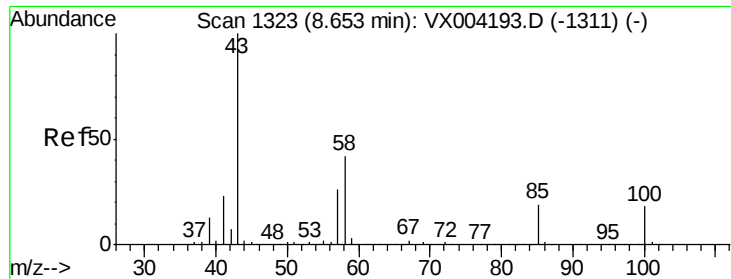


Abundance

Ion 98.00 (97.70 to 98.70): VX0

Ion 100.00 (99.70 to 100.70): VX0





#51

4-Methyl-2-Pentanone

Concen: 27.02 ug/l

RT: 8.65 min Scan# 1323

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 154078

Ion Ratio Lower Upper

43 100

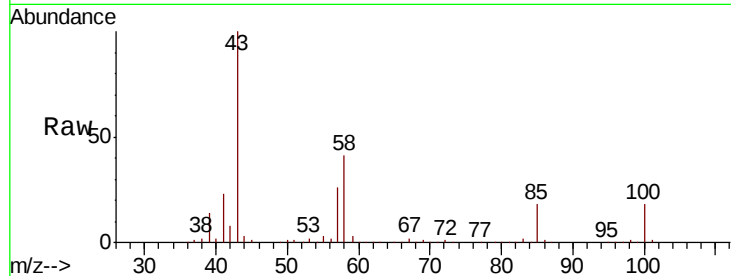
58 40.4 33.1 49.7

Manual Integrations

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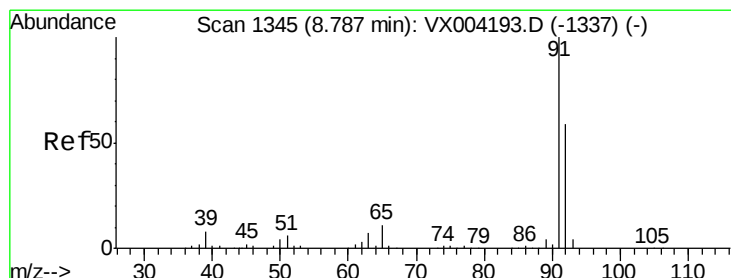
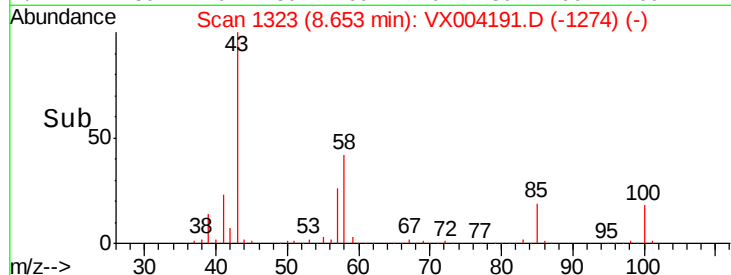
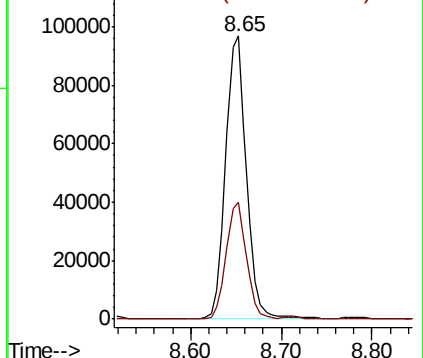
MMDadoda

8/23/2018 9:39:41 AM



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 58.00 (57.70 to 58.70): VX0



#52

Toluene

Concen: 4.72 ug/l

RT: 8.79 min Scan# 1345

Delta R.T. -0.00 min

Lab File: VX004191.D

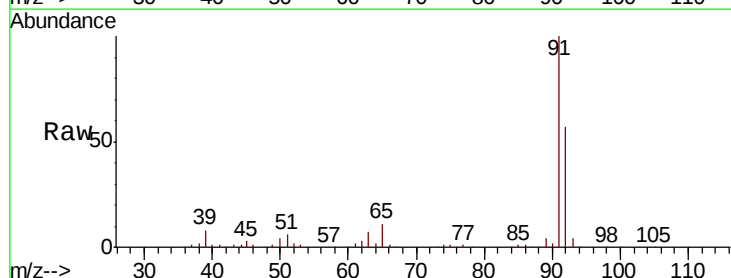
Acq: 22 Aug 2018 10:48

Tgt Ion: 92 Resp: 45847

Ion Ratio Lower Upper

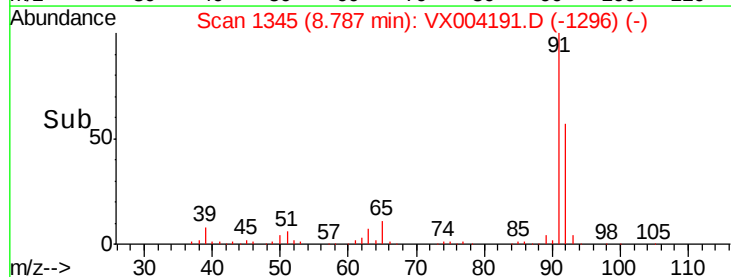
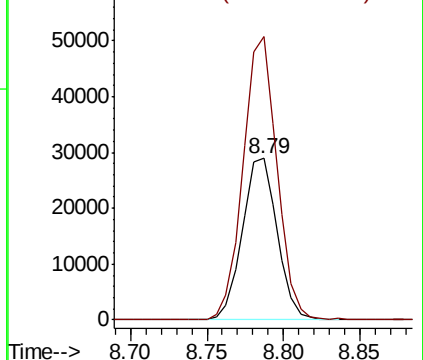
92 100

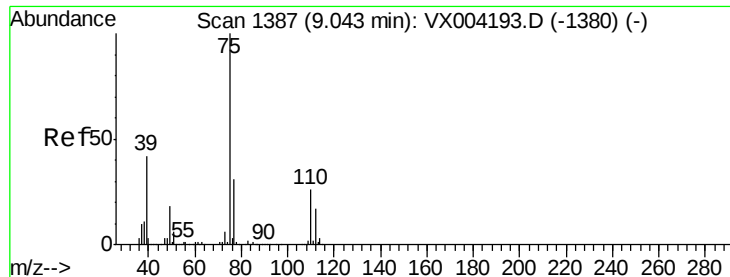
91 170.3 136.4 204.6



Abundance Ion 92.00 (91.70 to 92.70): VX0

Ion 91.00 (90.70 to 91.70): VX0





#53

t-1,3-Dichloropropene

Concen: 4.25 ug/l

RT: 9.04 min Scan# 1387

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 75 Resp: 22600

Ion Ratio Lower Upper

75 100

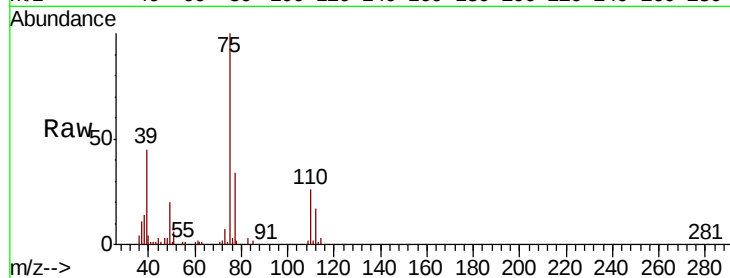
77 33.6 24.6 37.0

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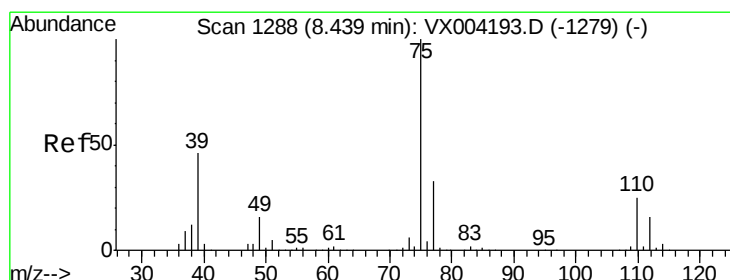
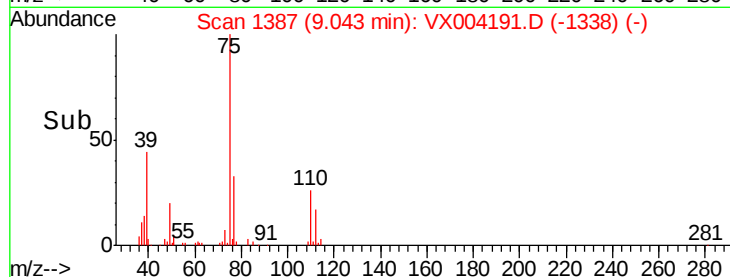
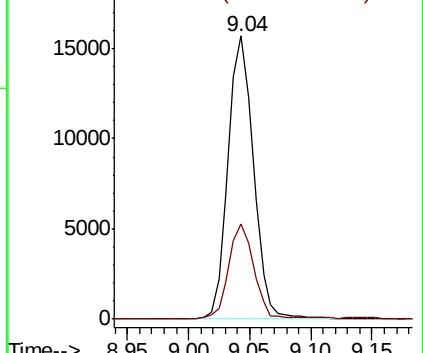
MMDadoda

8/23/2018 9:39:41 AM



Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0



#54

cis-1,3-Dichloropropene

Concen: 4.41 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

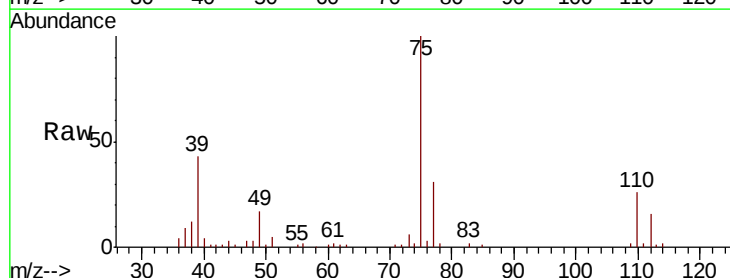
Tgt Ion: 75 Resp: 25550

Ion Ratio Lower Upper

75 100

77 31.1 26.2 39.2

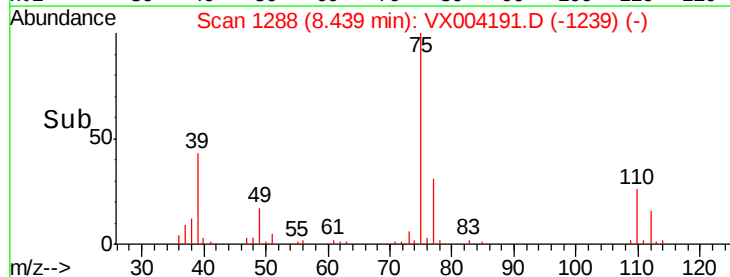
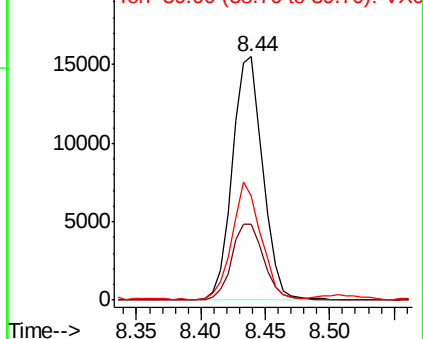
39 42.7 36.4 54.6

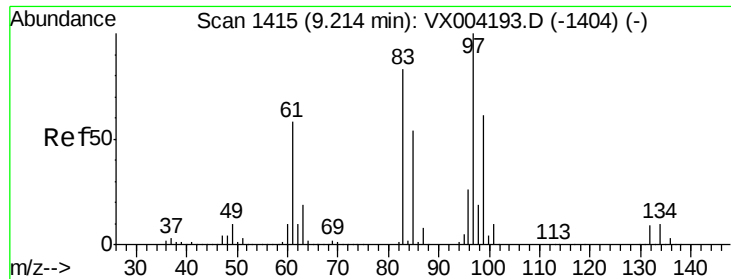


Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 76.90 (76.60 to 77.60): VX0

Ion 39.00 (38.70 to 39.70): VX0





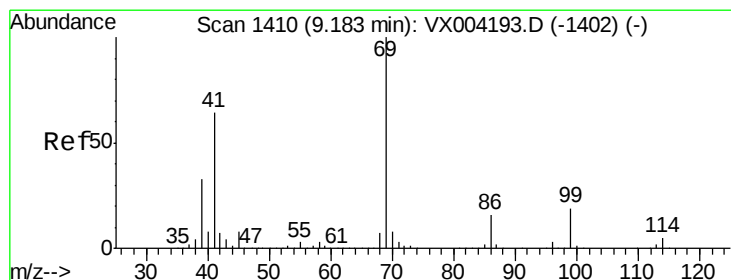
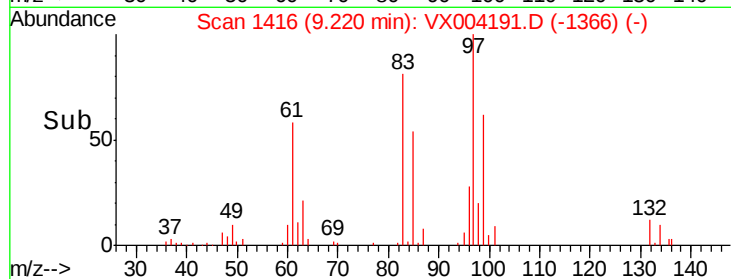
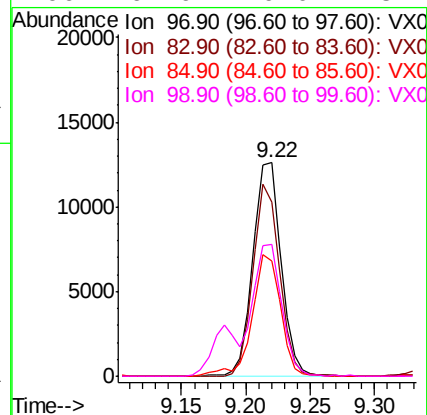
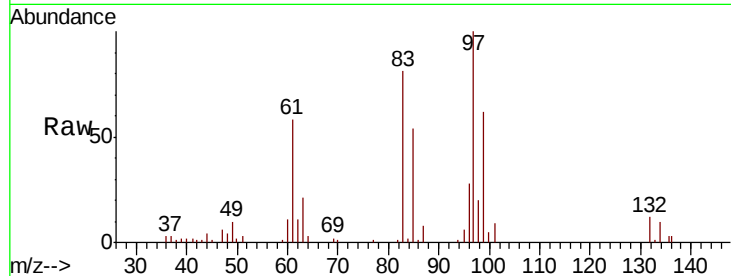
#55
 1,1,2-Trichloroethane
 Concen: 4.86 ug/l
 RT: 9.22 min Scan# 1416
 Delta R.T. 0.01 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion:	97	Resp:	19070
Ion	Ratio	Lower	Upper
97	100		
83	81.3	66.4	99.6
85	53.8	43.3	64.9
99	61.9	49.0	73.4

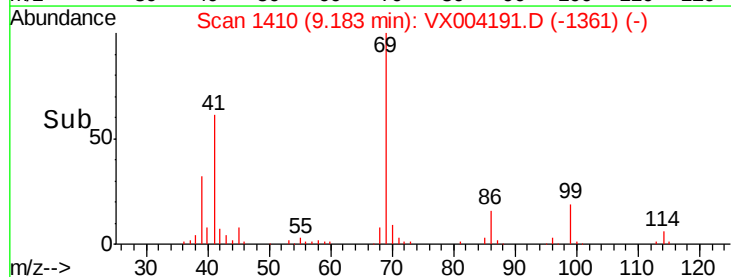
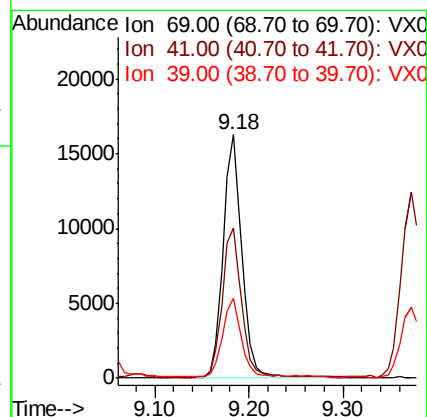
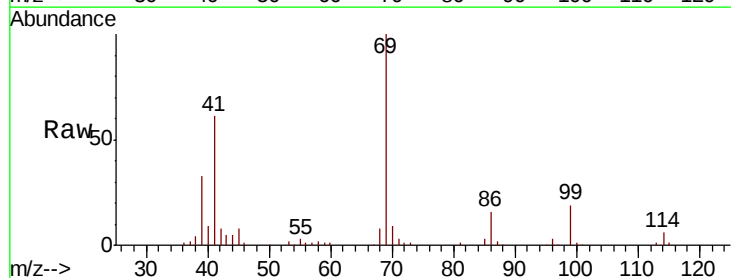
Manual Integrations
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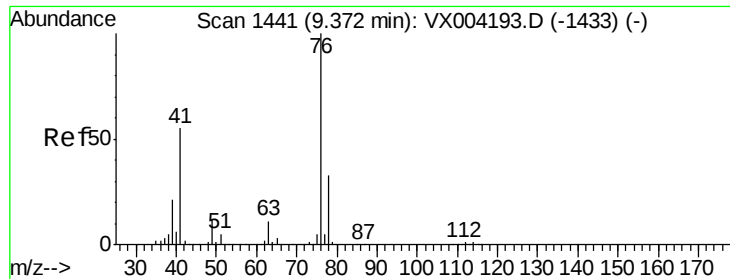
MMDadoda
 8/23/2018 9:39:41 AM



#56
 Ethyl methacrylate
 Concen: 4.24 ug/l
 RT: 9.18 min Scan# 1410
 Delta R.T. -0.00 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Tgt Ion:	69	Resp:	22619
Ion	Ratio	Lower	Upper
69	100		
41	62.2	51.0	76.4
39	32.0	26.1	39.1





#57

1,3-Dichloropropane

Concen: 4.84 ug/l

RT: 9.37 min Scan# 1441

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 32017

Ion Ratio Lower Upper

76 100

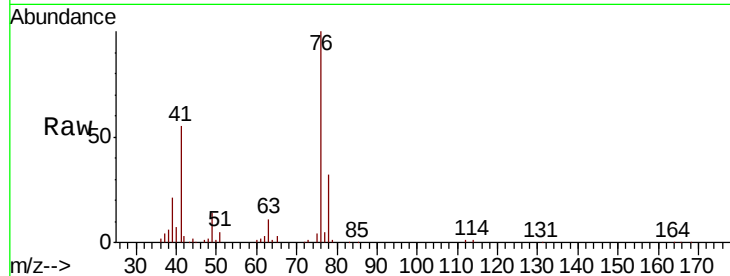
78 33.4 25.5 38.3

Manual Integrations

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MMDadoda

8/23/2018 9:39:41 AM



Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0

9.37

25000

20000

15000

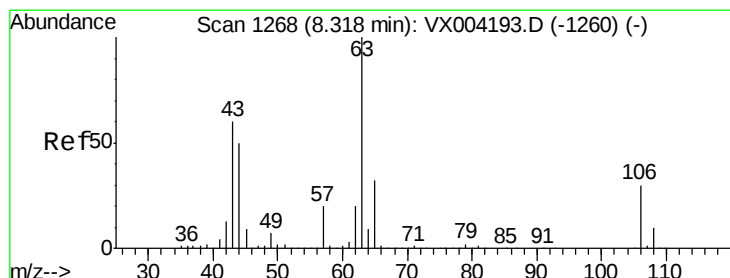
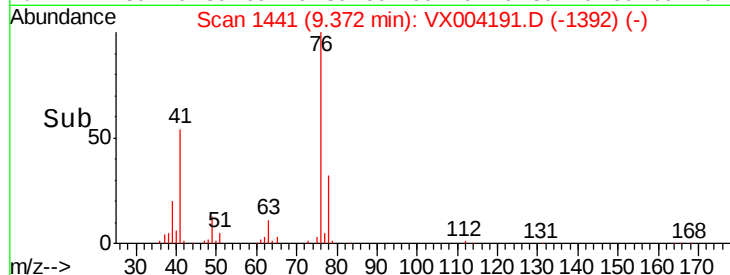
10000

5000

0

9.30 9.35 9.40 9.45

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 21.31 ug/l

RT: 8.31 min Scan# 1267

Delta R.T. -0.01 min

Lab File: VX004191.D

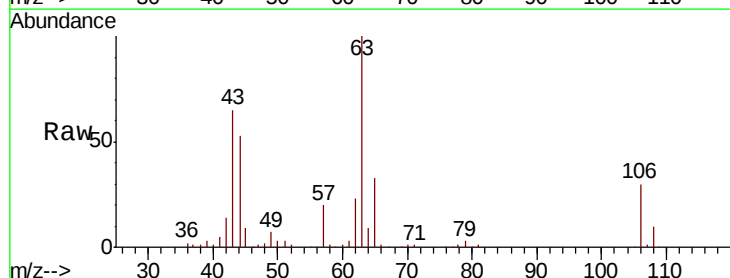
Acq: 22 Aug 2018 10:48

Tgt Ion: 63 Resp: 58293

Ion Ratio Lower Upper

63 100

106 29.8 23.9 35.9



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V

8.31

40000

30000

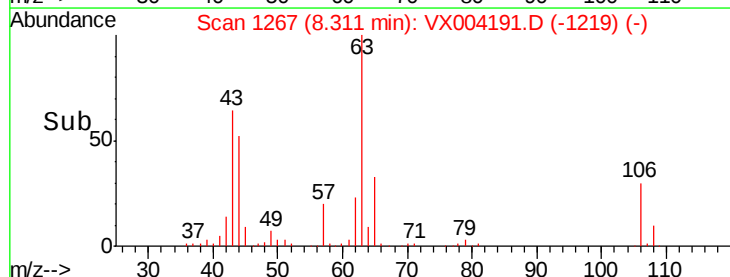
20000

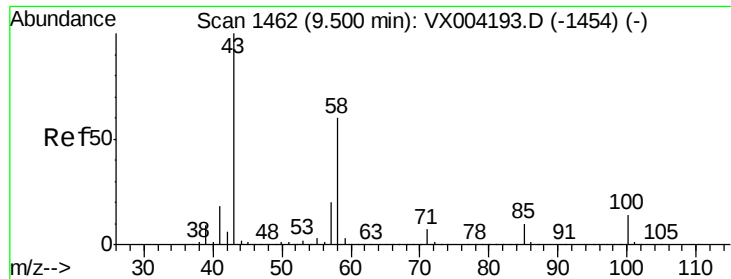
10000

0

8.20 8.30 8.40

Time-->





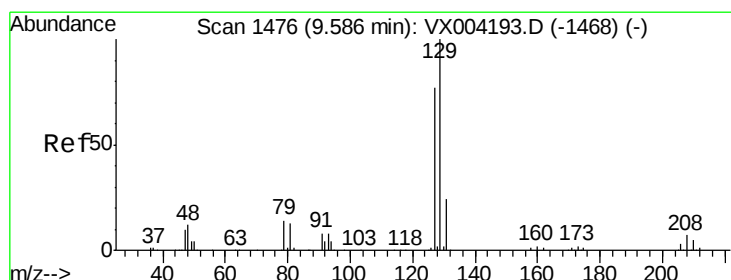
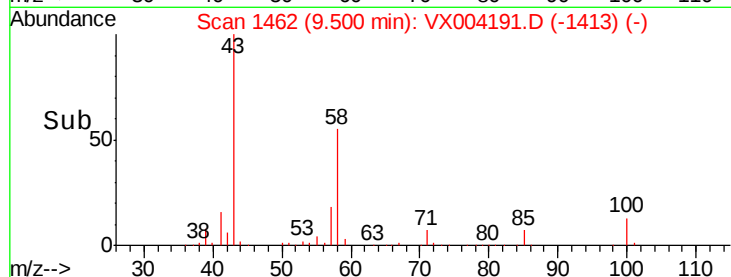
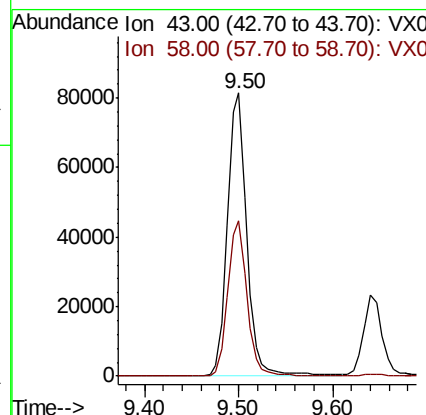
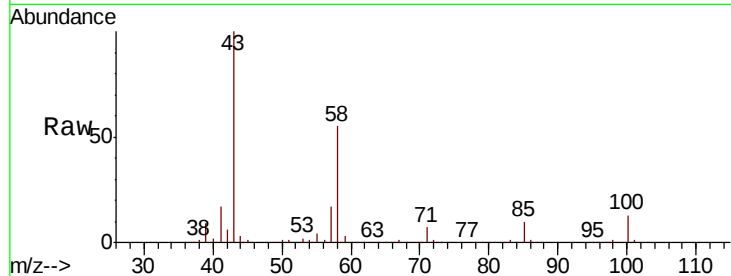
#59
2-Hexanone
Concen: 26.55 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.8	29.0	87.0

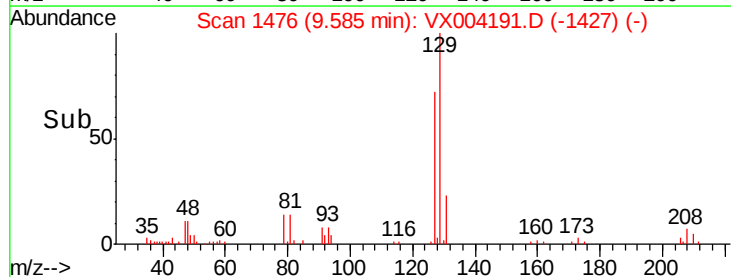
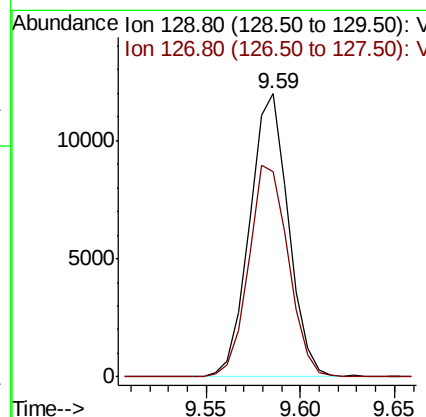
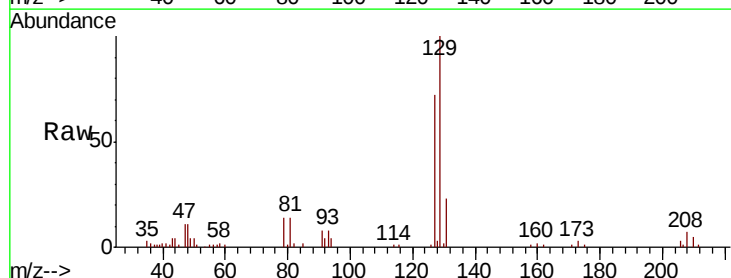
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#60
Dibromochloromethane
Concen: 4.46 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
129	100		
127	76.5	38.5	115.5





#61

1,2-Dibromoethane

Concen: 4.76 ug/l

RT: 9.67 min Scan# 1490

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:107 Resp: 19328

Ion Ratio Lower Upper

107 100

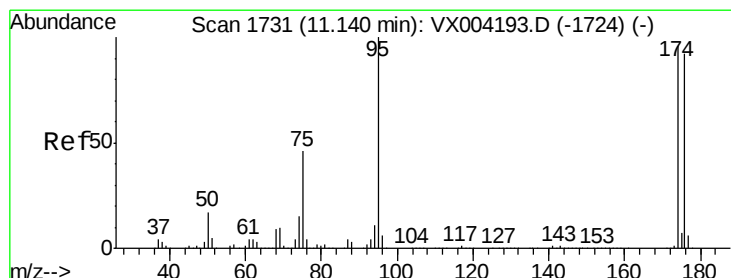
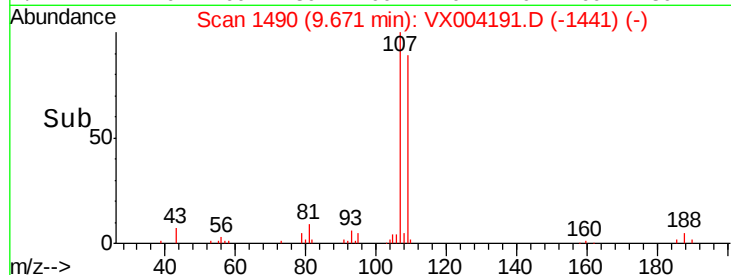
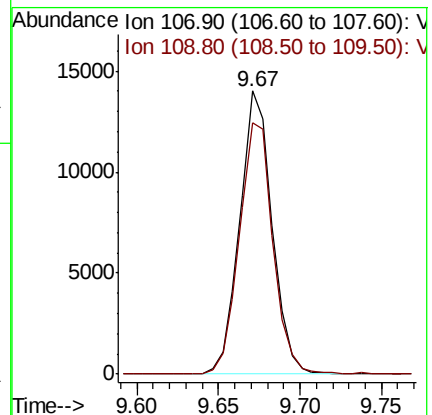
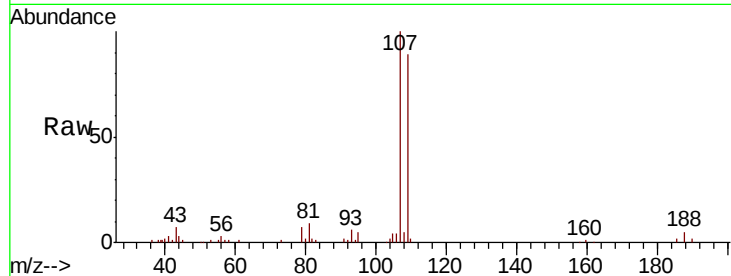
109 92.3 76.0 114.0

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#62

4-Bromofluorobenzene

Concen: 4.68 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

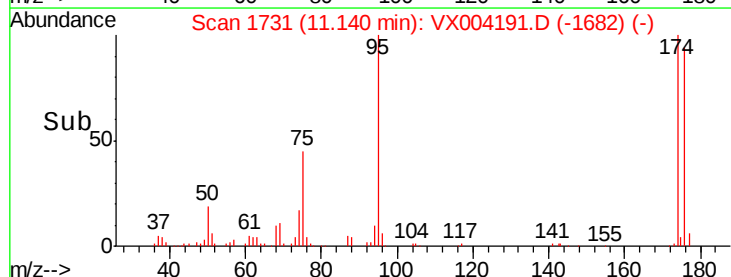
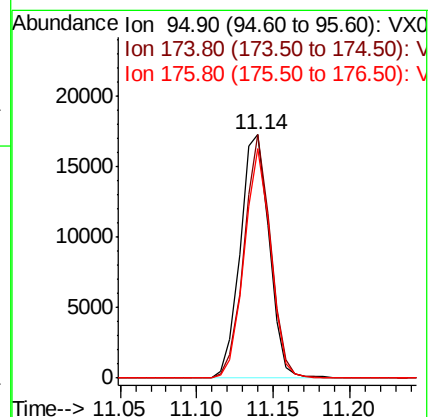
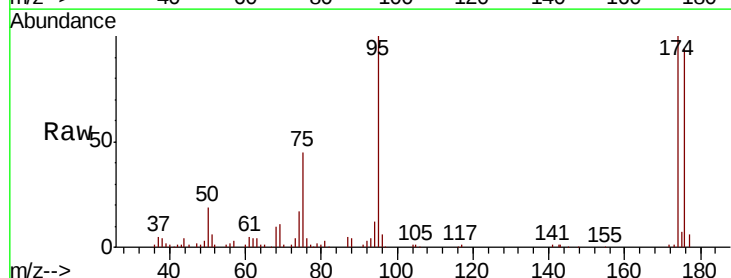
Tgt Ion: 95 Resp: 22666

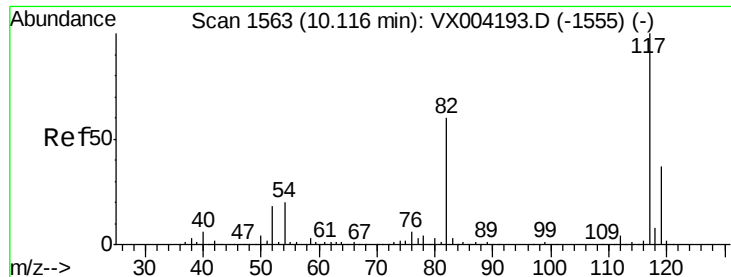
Ion Ratio Lower Upper

95 100

174 91.5 0.0 185.2

176 85.6 0.0 178.6





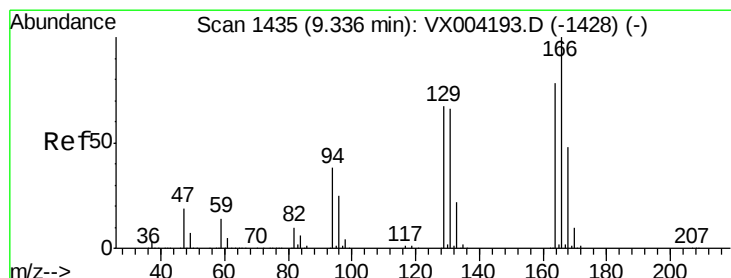
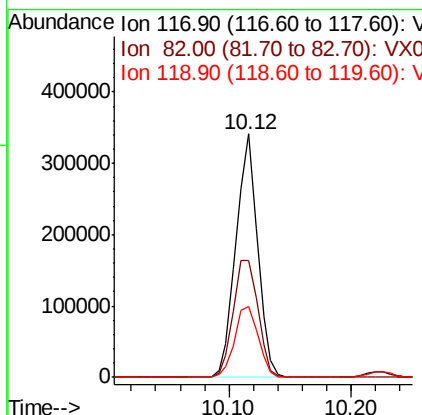
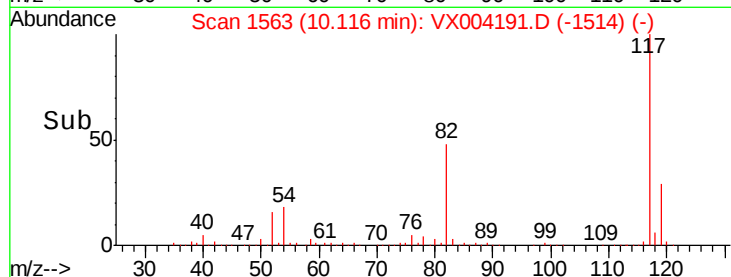
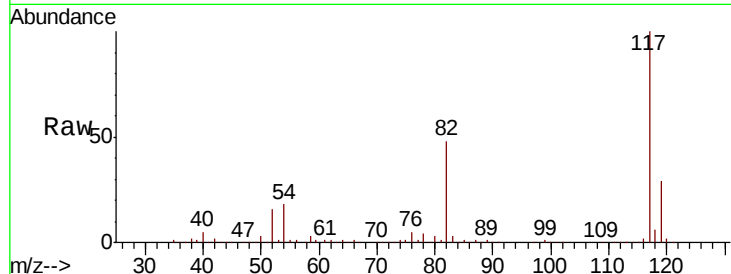
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 10.12 min Scan# 1563
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
117	100		
82	47.9	47.8	71.6
119	29.0	29.3	43.9

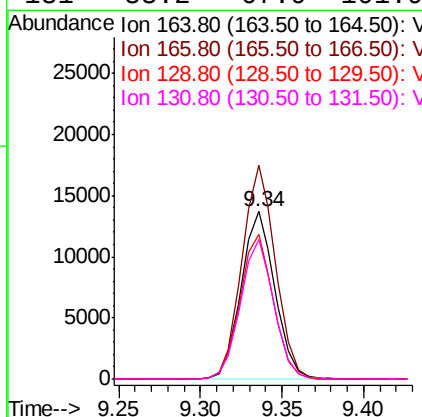
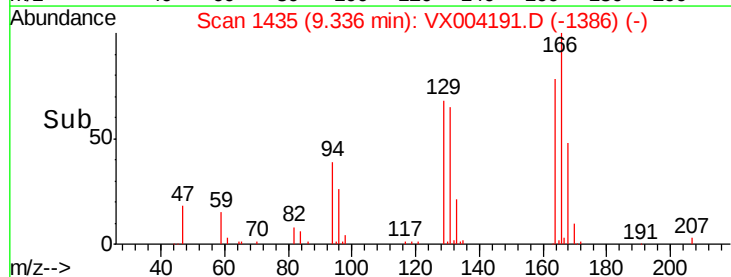
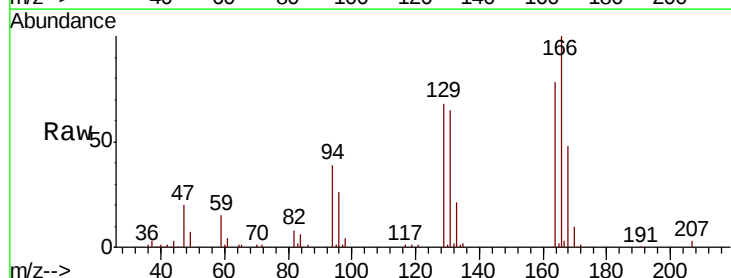
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#64
Tetrachloroethene
Concen: 4.74 ug/l
RT: 9.34 min Scan# 1435
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.5	102.8	154.2
129	86.6	69.4	104.0
131	83.2	67.9	101.9





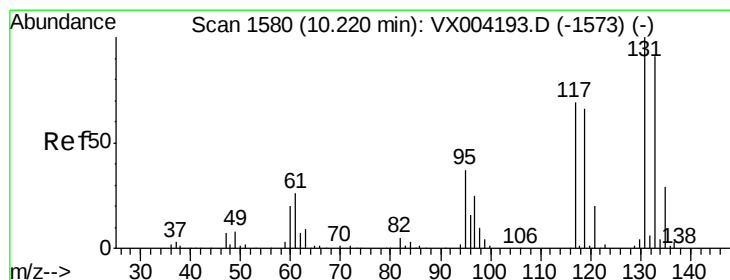
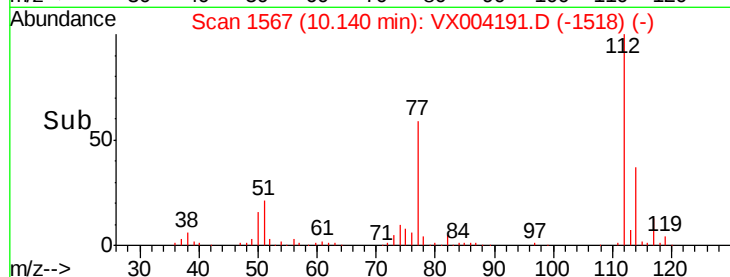
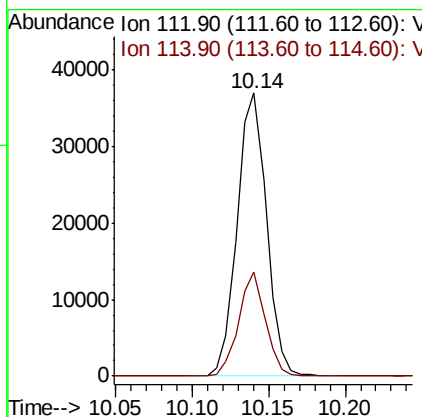
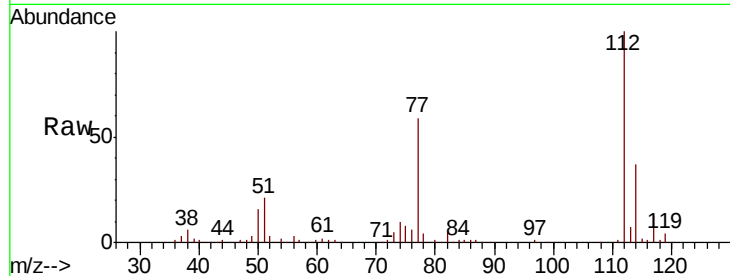
#65
Chlorobenzene
Concen: 4.70 ug/l
RT: 10.14 min Scan# 1567
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion:112 Resp: 49275
Ion Ratio Lower Upper
112 100
114 36.9 27.8 41.8

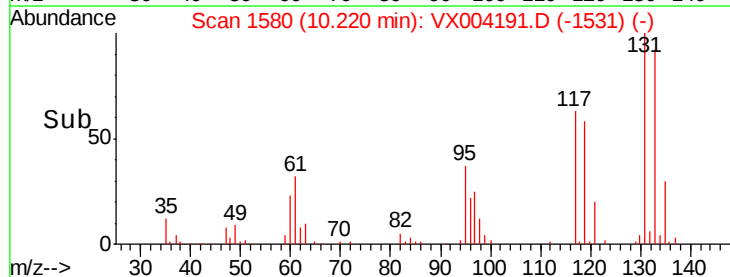
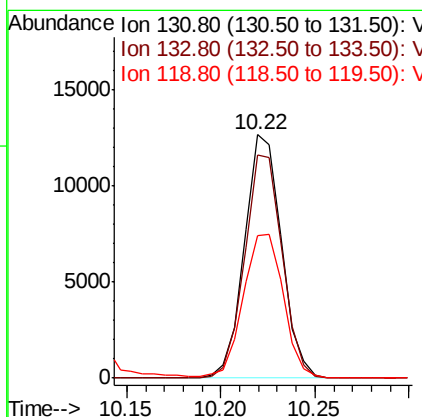
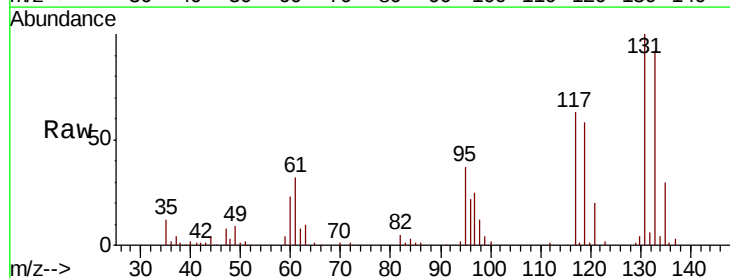
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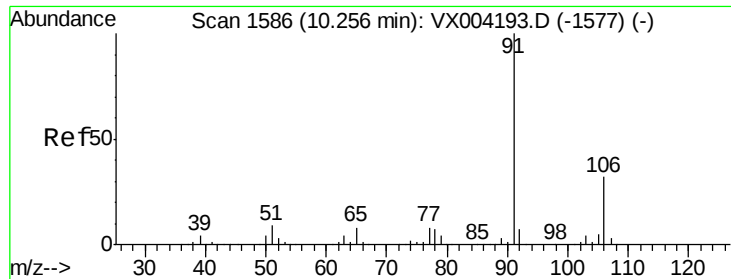
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#66
1,1,1,2-Tetrachloroethane
Concen: 4.77 ug/l
RT: 10.22 min Scan# 1580
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion:131 Resp: 17236
Ion Ratio Lower Upper
131 100
133 93.3 48.1 144.4
119 64.3 32.9 98.6





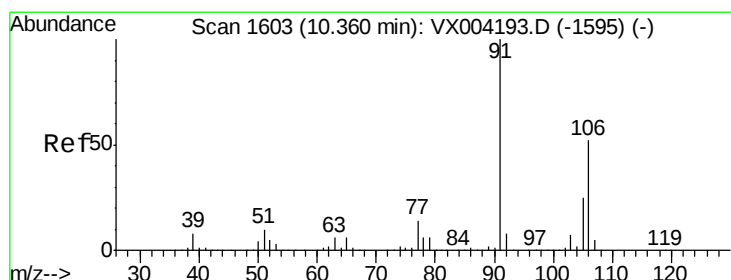
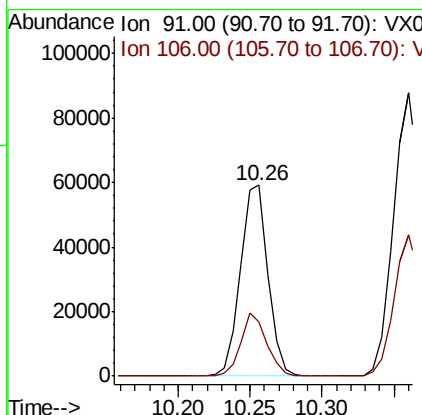
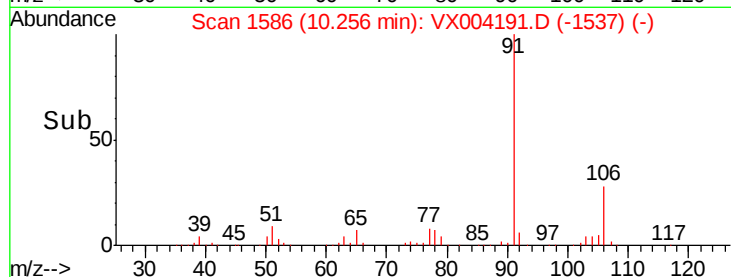
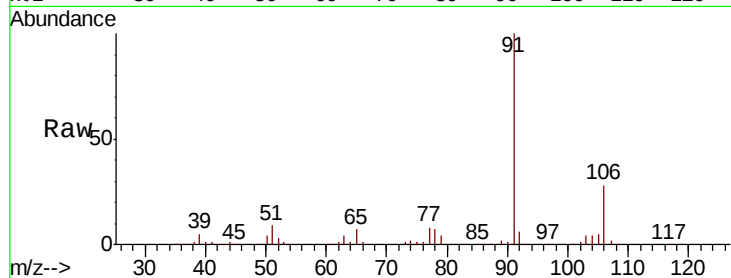
#67
Ethyl Benzene
Concen: 4.61 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 78569
Ion Ratio Lower Upper
91 100
106 28.1 25.9 38.9

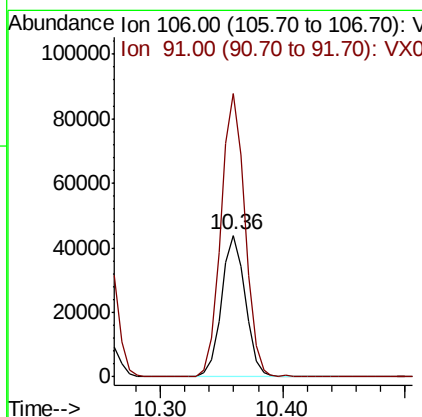
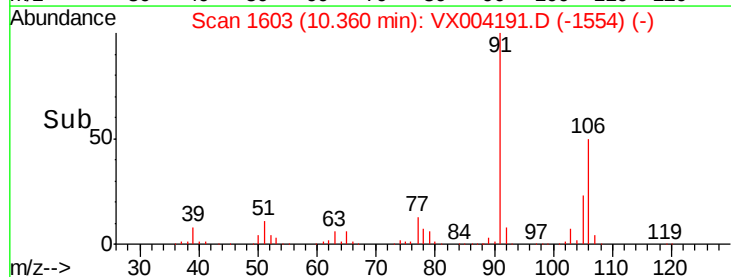
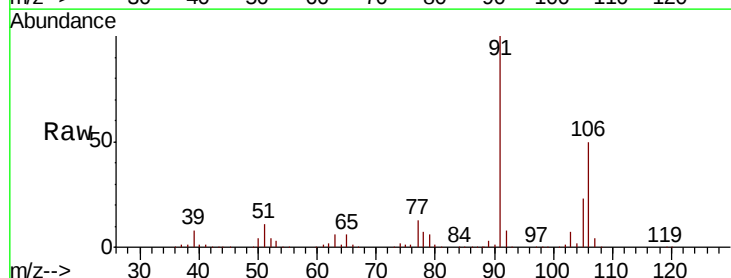
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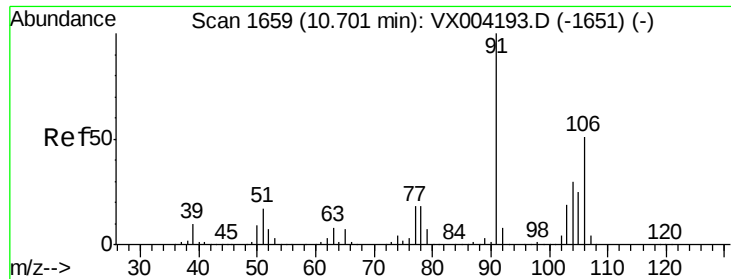
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#68
m/p-Xylenes
Concen: 8.91 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion: 106 Resp: 59350
Ion Ratio Lower Upper
106 100
91 201.4 157.1 235.7





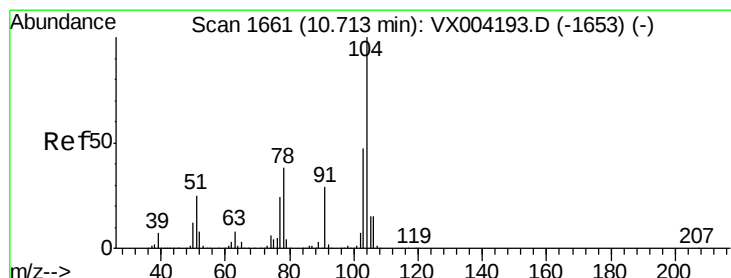
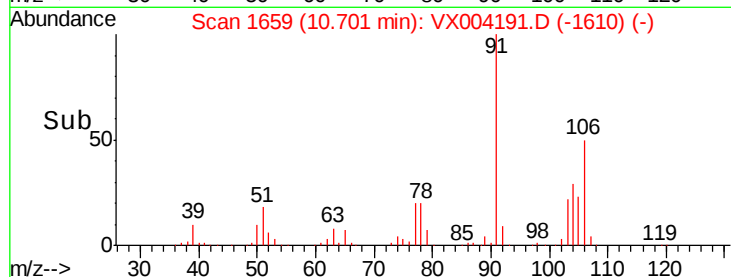
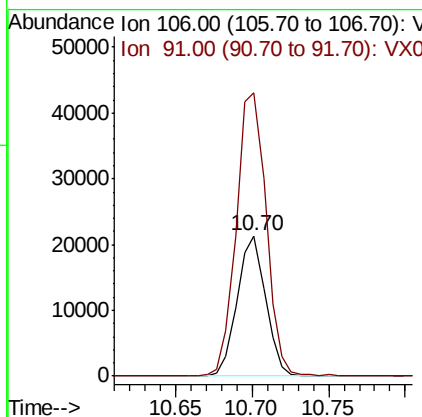
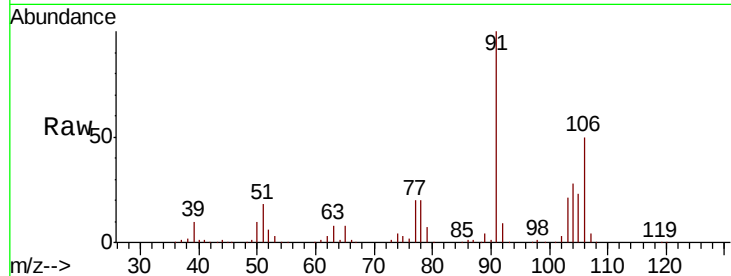
#69
o-Xylene
Concen: 4.39 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 27640
Ion Ratio Lower Upper
106 100
91 211.7 105.1 315.1

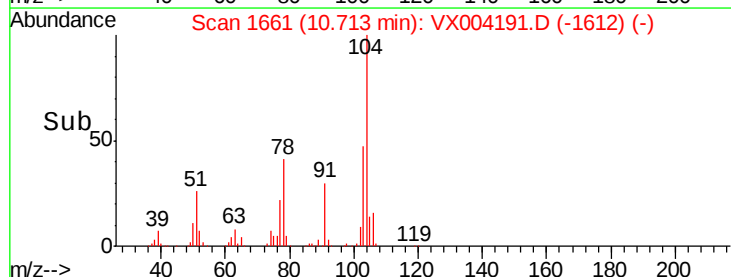
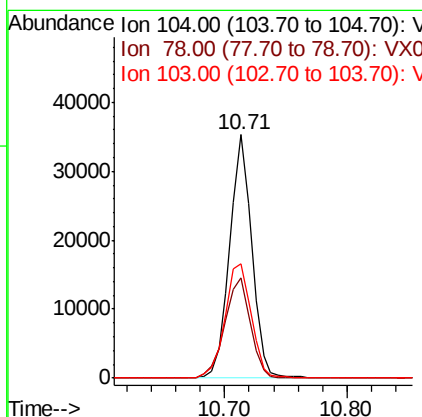
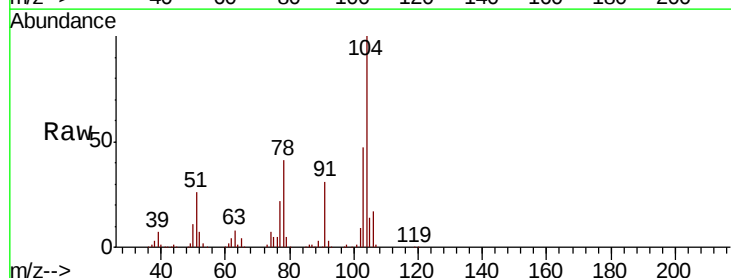
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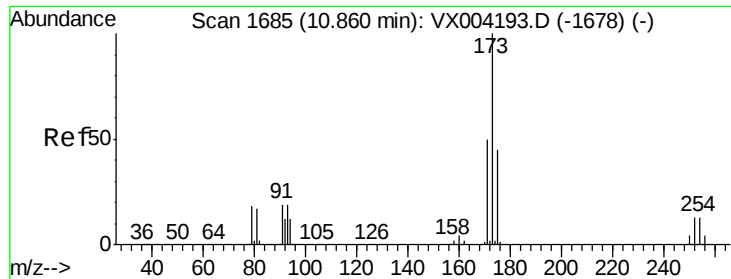
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#70
Styrene
Concen: 4.32 ug/l
RT: 10.71 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion:104 Resp: 44114
Ion Ratio Lower Upper
104 100
78 48.1 37.4 56.0
103 55.6 43.8 65.6





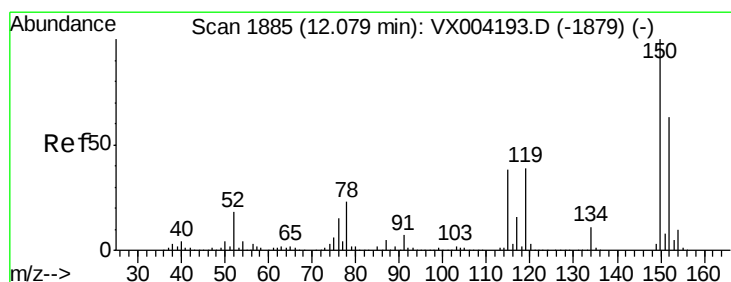
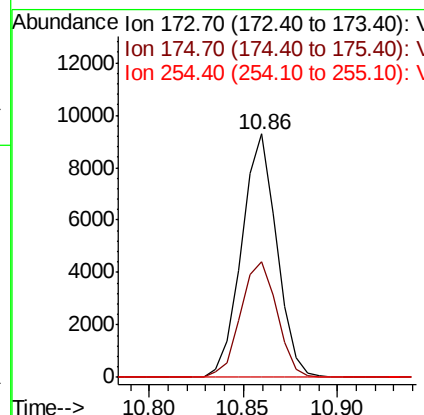
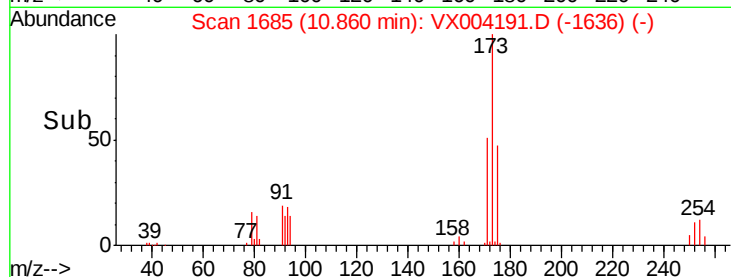
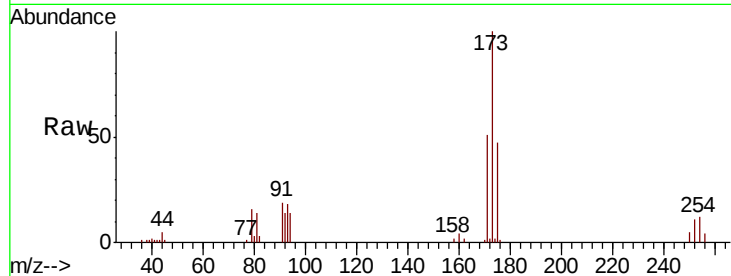
#71
Bromoform
Concen: 4.11 ug/l
RT: 10.86 min Scan# 1685
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
173	100		
175	49.3	24.1	72.3
254	0.0	0.2	0.2

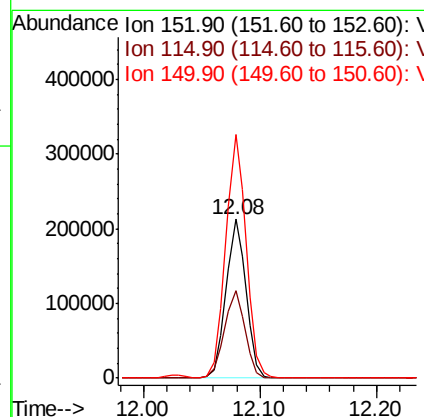
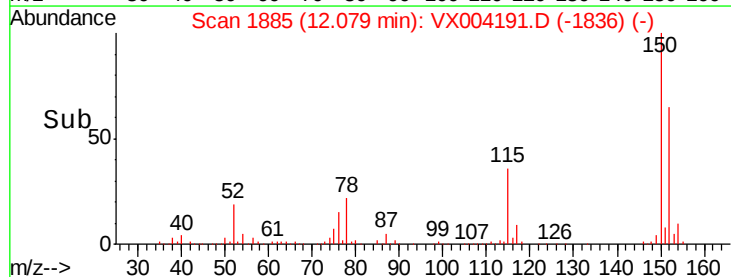
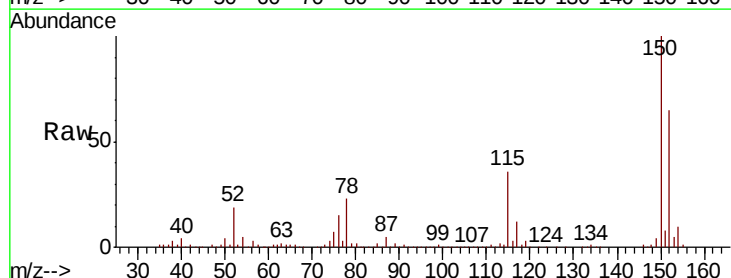
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#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 12.08 min Scan# 1885
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.1	39.0	117.0
150	156.3	0.0	351.0





#73

Isopropylbenzene

Concen: 4.64 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 105 Resp: 76499

Ion Ratio Lower Upper

105 100

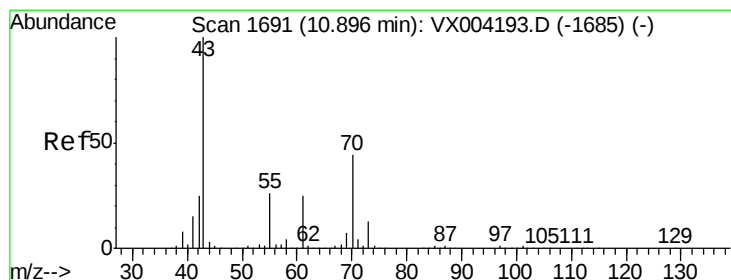
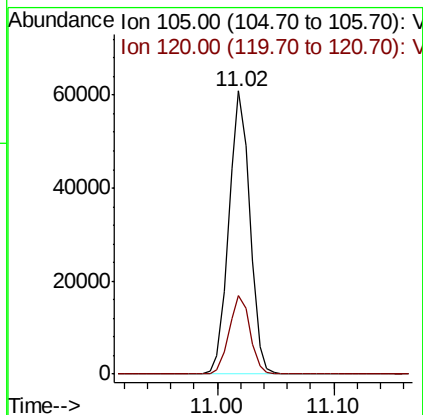
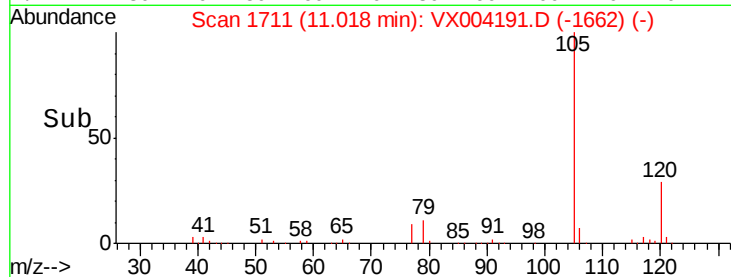
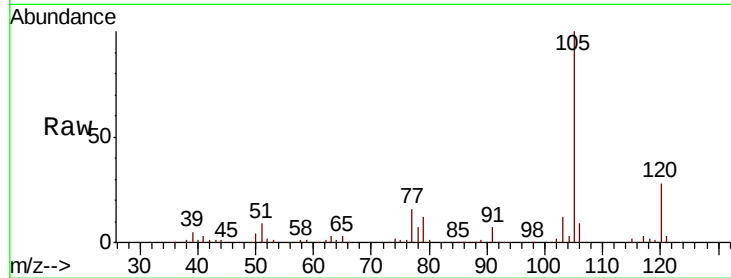
120 27.4 13.5 40.4

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#74

N-ethyl acetate

Concen: 4.49 ug/l

RT: 10.90 min Scan# 1691

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Tgt Ion: 43 Resp: 28554

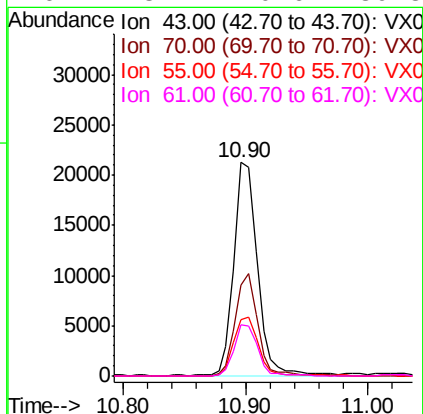
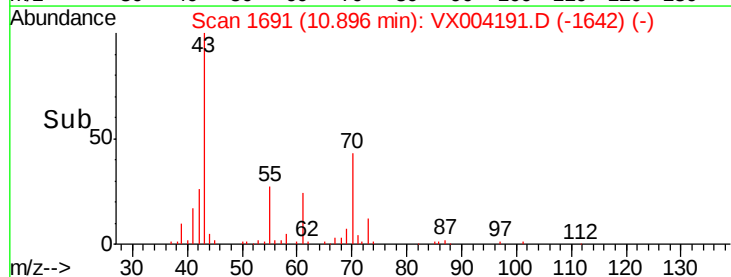
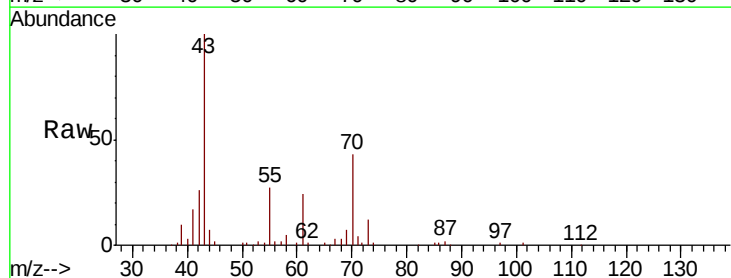
Ion Ratio Lower Upper

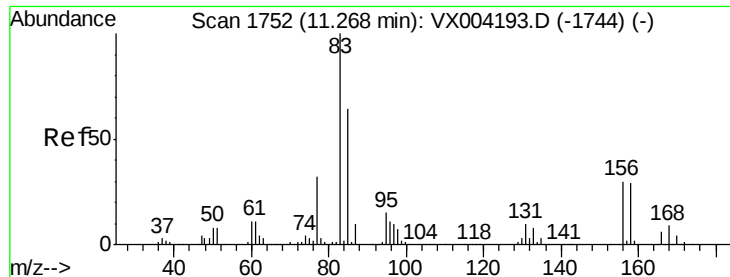
43 100

70 45.2 37.4 56.0

55 28.9 21.8 32.8

61 23.7 20.6 30.8





#75

1,1,2,2-Tetrachloroethane

Concen: 5.08 ug/l

RT: 11.27 min Scan# 1752

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

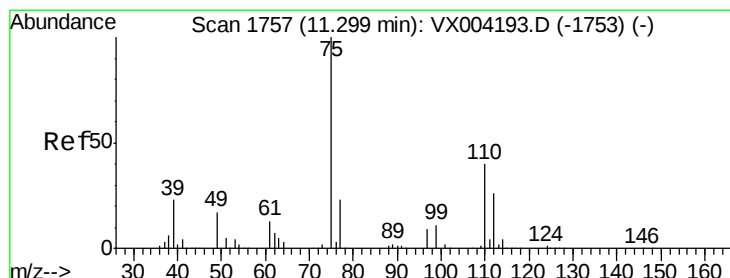
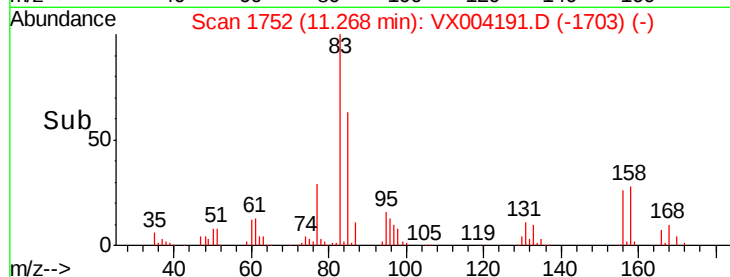
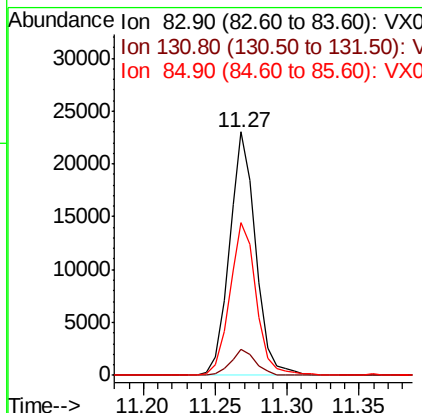
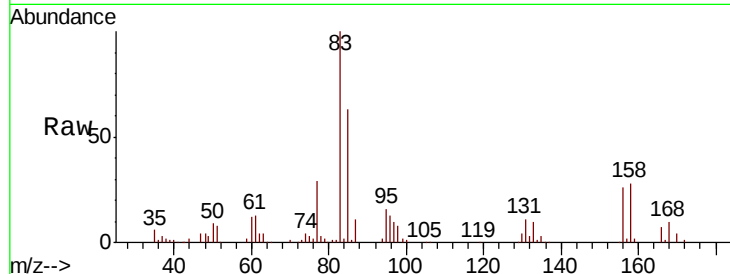
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	29326
Ion Ratio	Lower	Upper	
83	100		
131	10.1	5.2	15.6
85	63.2	32.3	96.8

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#76

1,2,3-Trichloropropane

Concen: 5.19 ug/l m

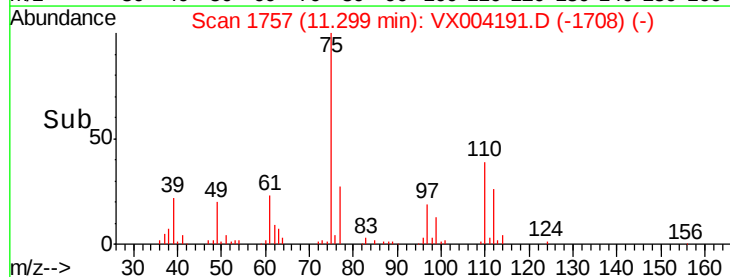
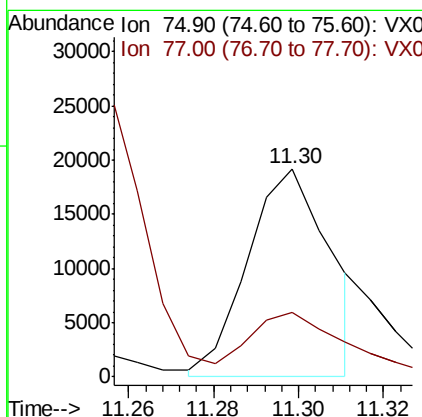
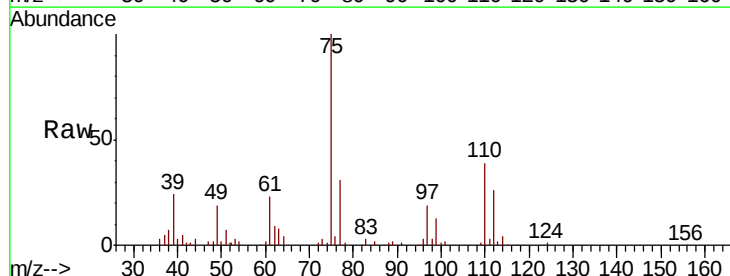
RT: 11.30 min Scan# 1757

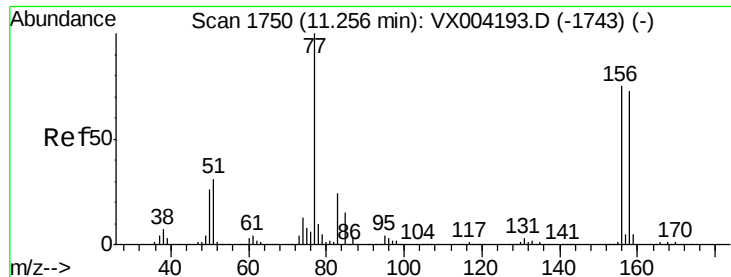
Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Tgt Ion:	75	Resp:	25752
Ion Ratio	Lower	Upper	
75	100		
77	36.9	20.2	60.6





#77

Bromobenzene

Concen: 4.91 ug/l

RT: 11.26 min Scan# 1750

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:156 Resp: 22713

Ion Ratio Lower Upper

156 100

77 147.8 71.5 214.3

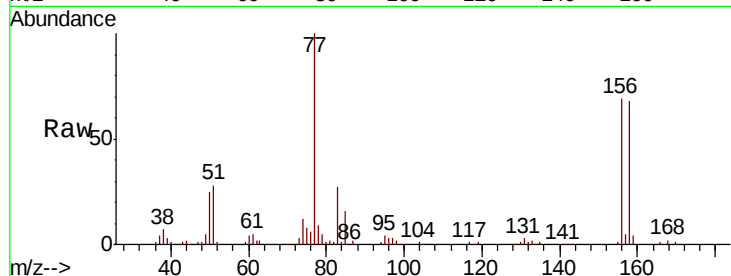
158 98.7 48.9 146.8

Manual Integrations

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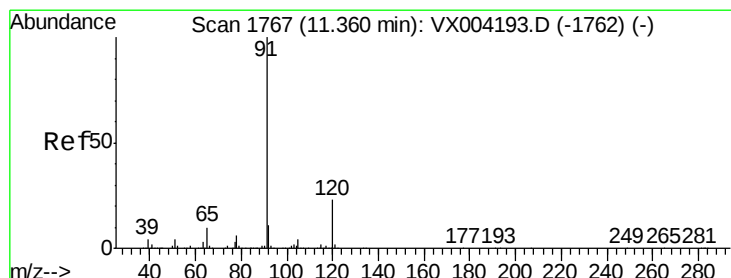
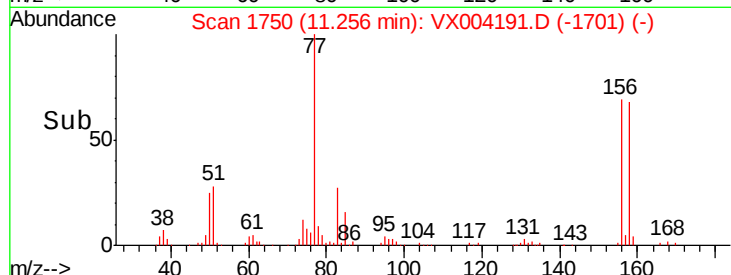
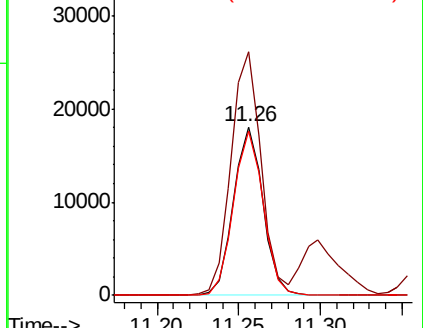
8/23/2018 9:39:41 AM



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: 4.64 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. -0.00 min

Lab File: VX004191.D

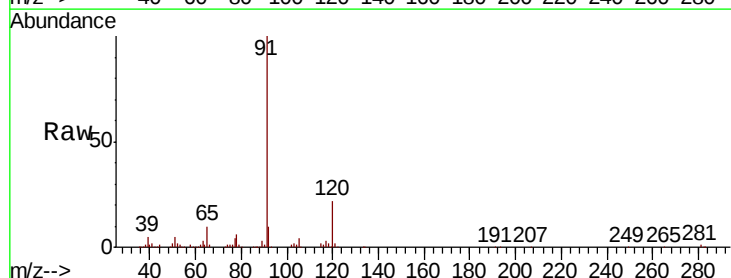
Acq: 22 Aug 2018 10:48

Tgt Ion: 91 Resp: 87993

Ion Ratio Lower Upper

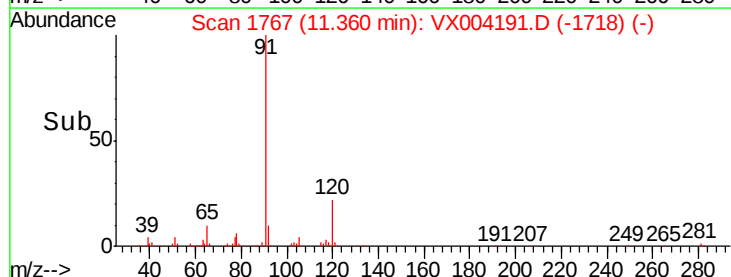
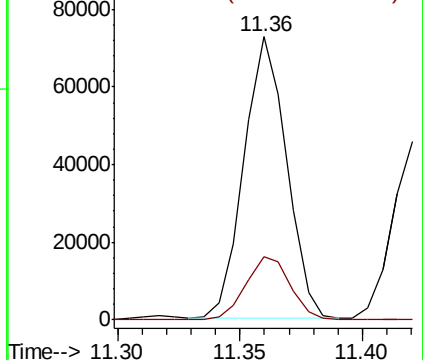
91 100

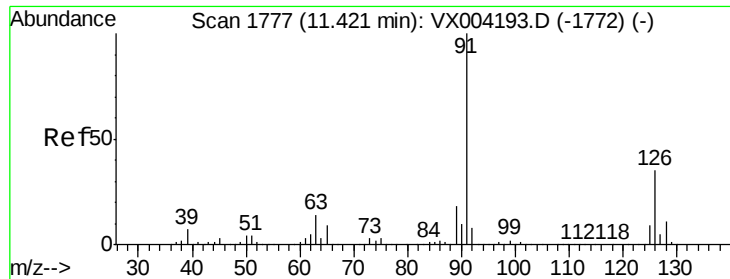
120 23.2 11.9 35.9



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 4.83 ug/l

RT: 11.42 min Scan# 1777

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 56423

Ion Ratio Lower Upper

91 100

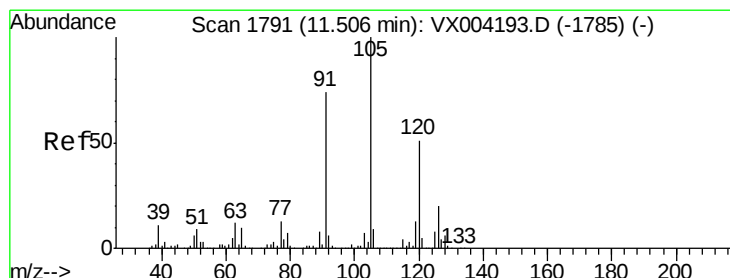
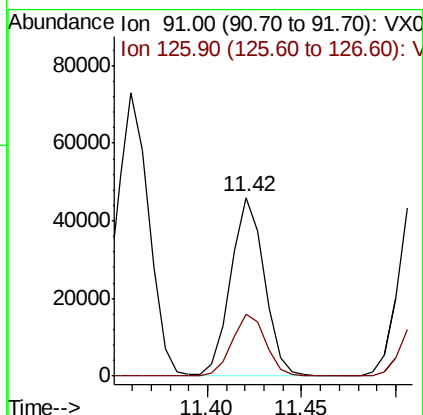
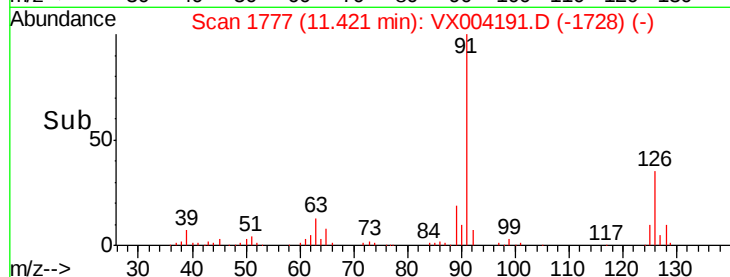
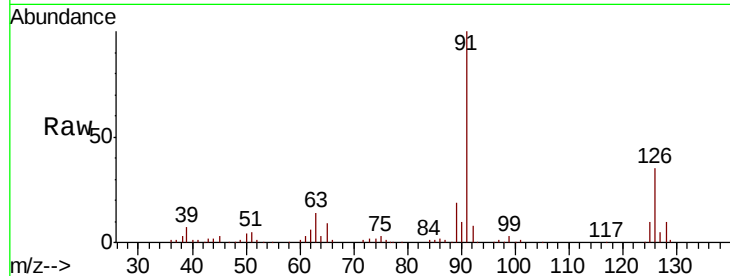
126 35.3 17.9 53.7

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#80

1,3,5-Trimethylbenzene

Concen: 4.70 ug/l

RT: 11.51 min Scan# 1791

Delta R.T. -0.00 min

Lab File: VX004191.D

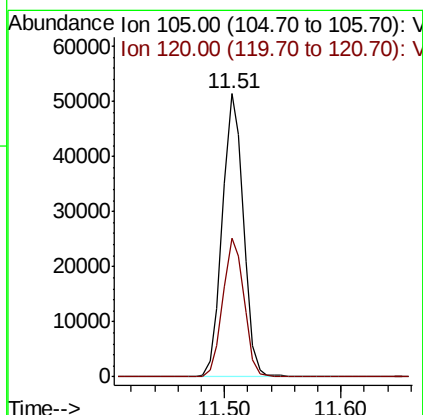
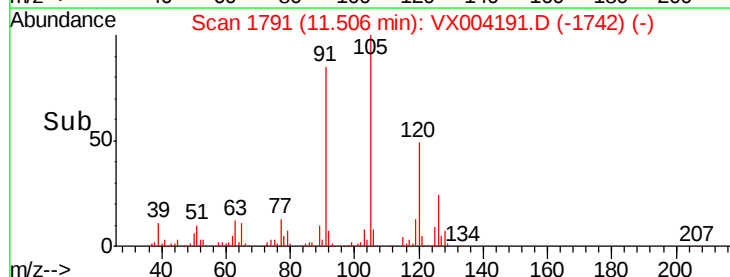
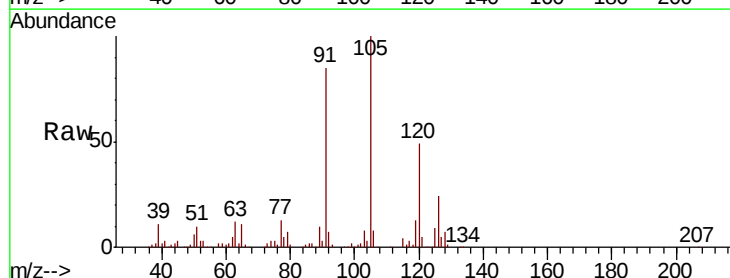
Acq: 22 Aug 2018 10:48

Tgt Ion: 105 Resp: 64217

Ion Ratio Lower Upper

105 100

120 49.4 25.6 76.8





#81

trans-1,4-Dichloro-2-butene

Concen: 4.05 ug/l

RT: 11.08 min Scan# 1721

Delta R.T. 0.01 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

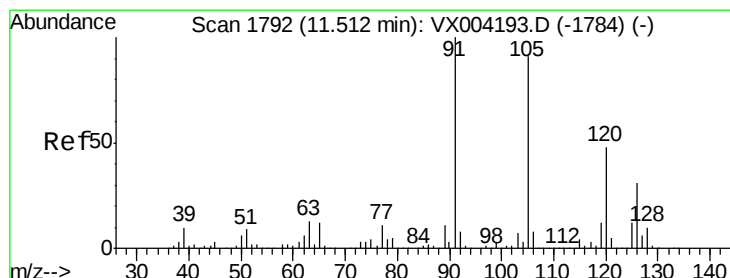
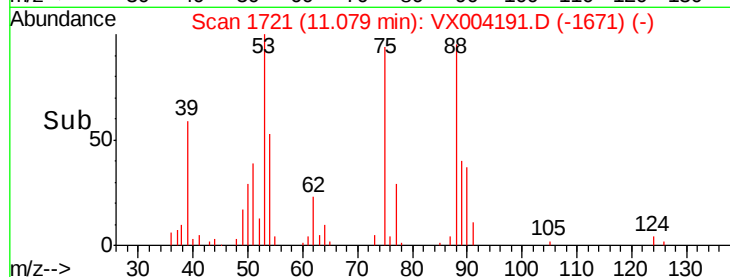
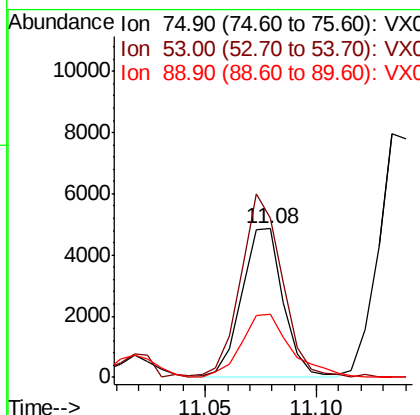
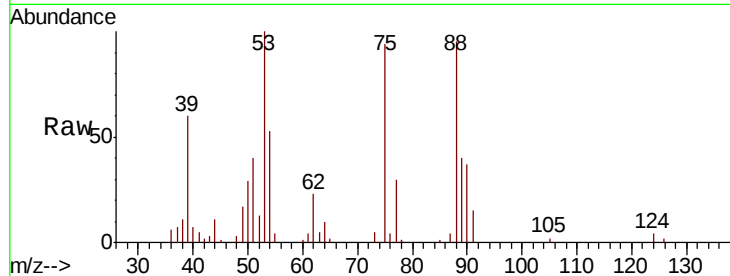
ClientSampled :

VSTDIC005

Tot Ion	Ratio	Lower	Upper
75	100		
53	121.5	80.1	120.1#
89	50.6	37.2	55.8

Manual Integrations
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#82

4-Chlorotoluene

Concen: 4.81 ug/l

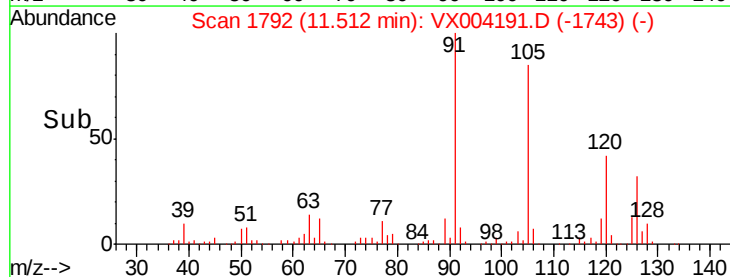
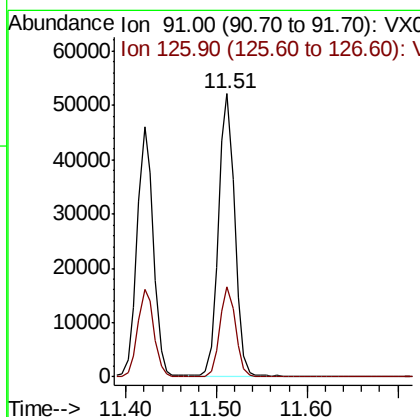
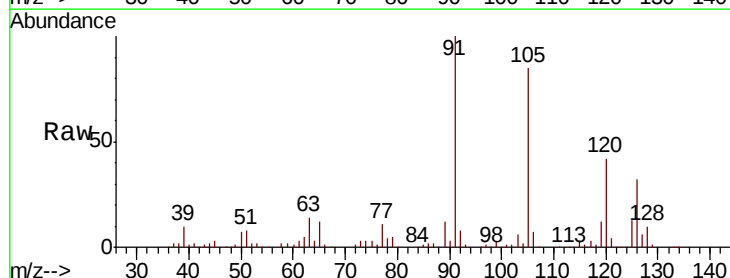
RT: 11.51 min Scan# 1792

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
91	100		
126	30.7	15.5	46.5





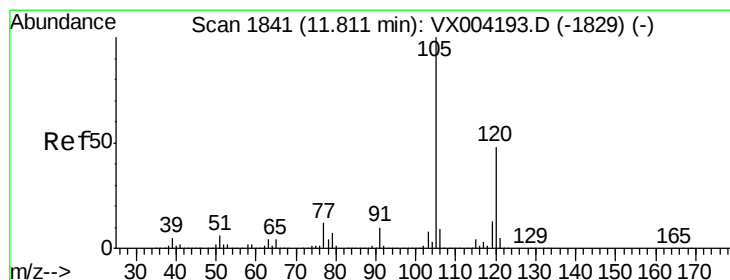
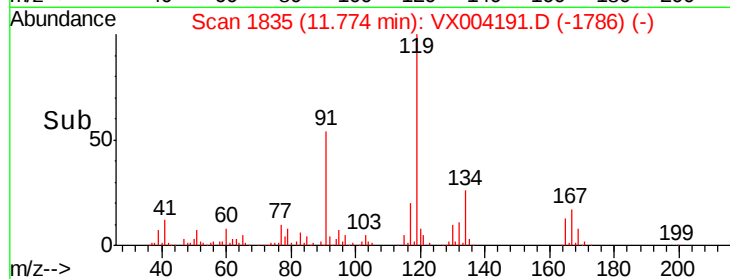
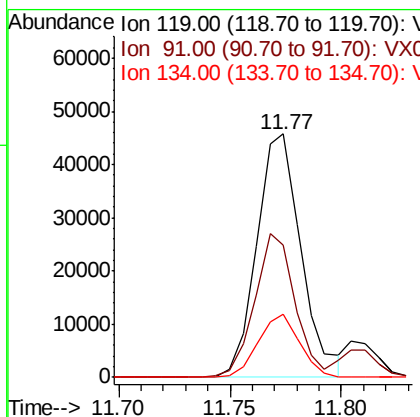
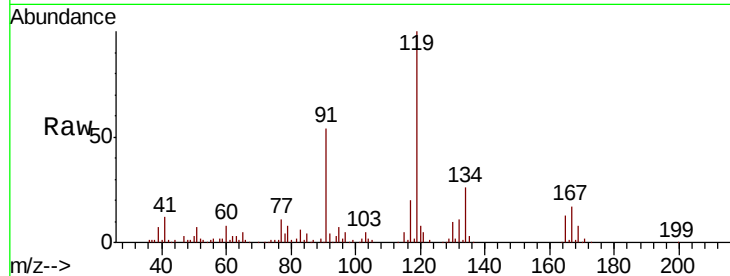
#83
 tert-Butylbenzene
 Concen: 4.60 ug/l
 RT: 11.77 min Scan# 1835
 Delta R.T. -0.00 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	53.3	27.0	81.0
134	24.6	11.7	35.1

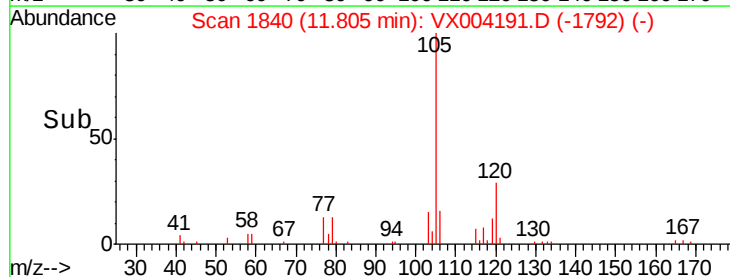
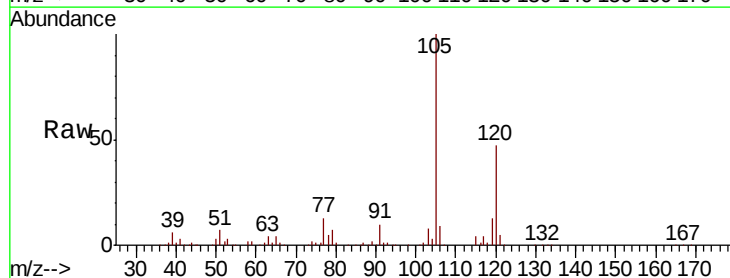
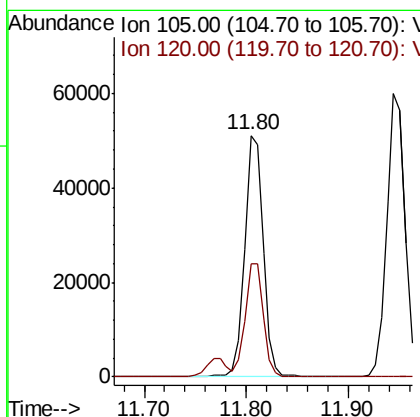
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#84
 1,2,4-Trimethylbenzene
 Concen: 4.57 ug/l
 RT: 11.80 min Scan# 1840
 Delta R.T. -0.01 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.0	23.2	69.6





#85

sec-Butylbenzene

Concen: 4.63 ug/l

RT: 11.94 min Scan# 1863

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:105 Resp: 75574

Ion Ratio Lower Upper

105 100

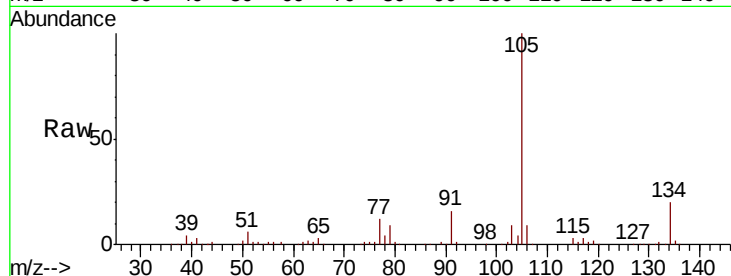
134 20.4 10.5 31.5

Manual Integrations

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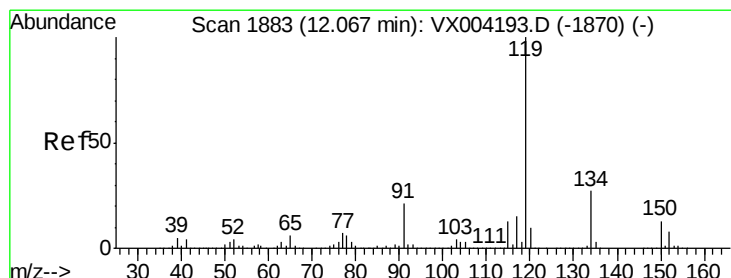
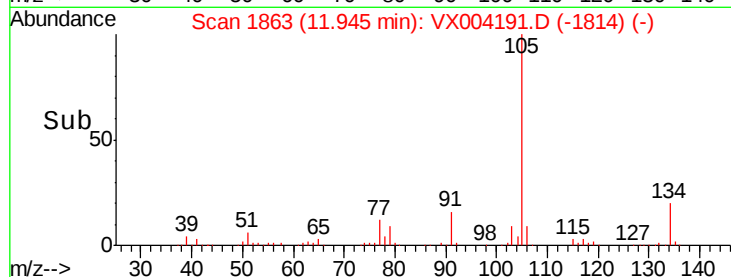
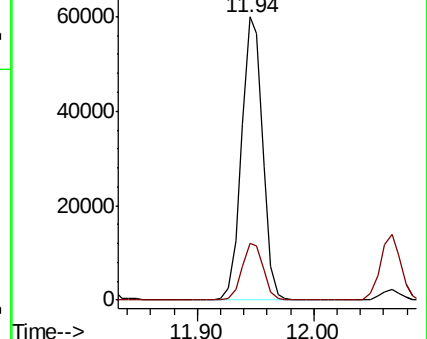
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 4.38 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

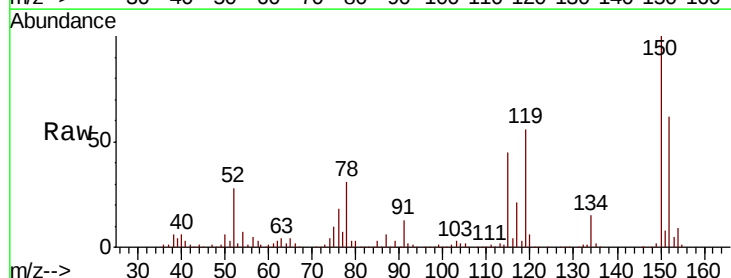
Tgt Ion:119 Resp: 64014

Ion Ratio Lower Upper

119 100

134 26.7 13.4 40.2

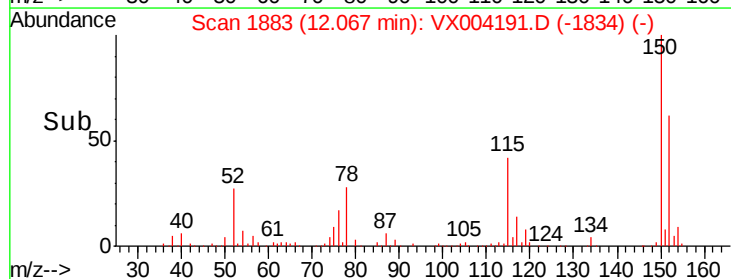
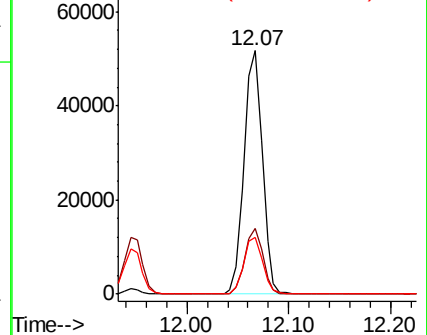
91 24.1 10.9 32.7



Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): VX0





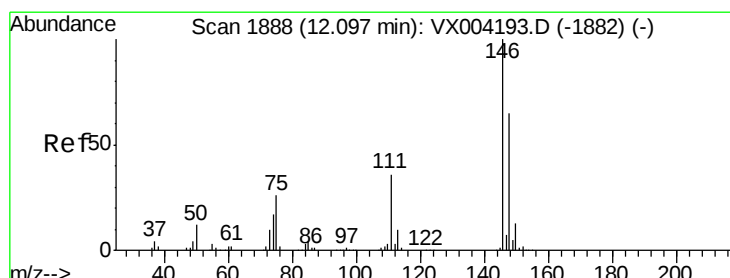
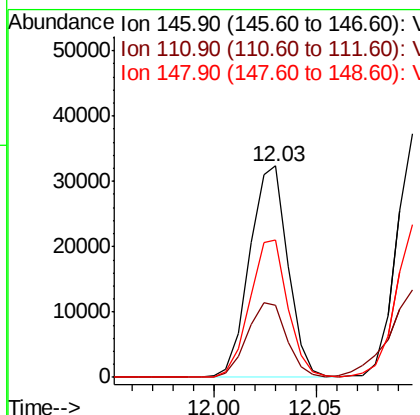
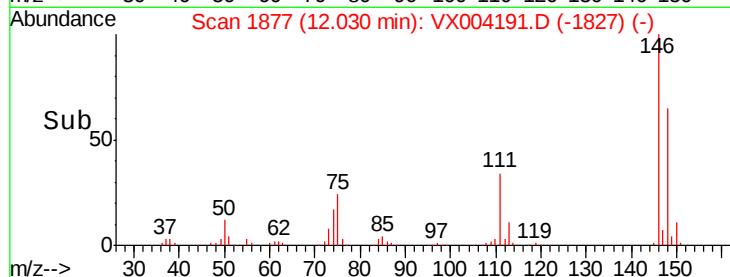
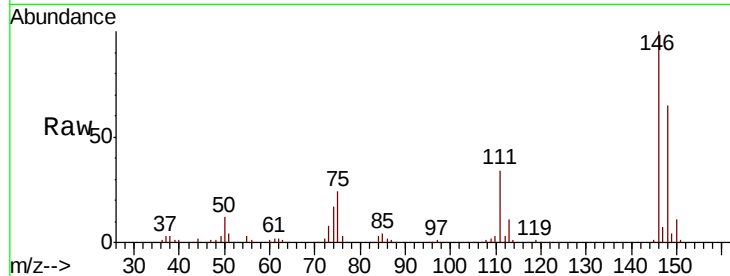
#87
 1,3-Dichlorobenzene
 Concen: 4.84 ug/l
 RT: 12.03 min Scan# 1877
 Delta R.T. 0.01 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	36.4	18.7	56.1
148	64.7	32.1	96.5

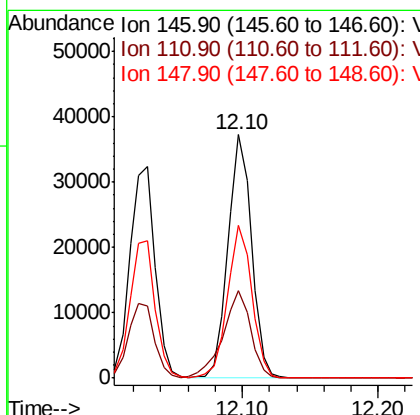
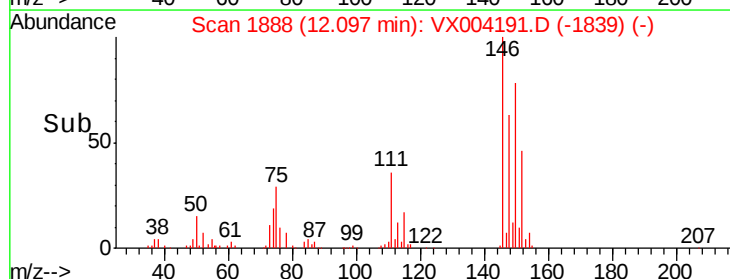
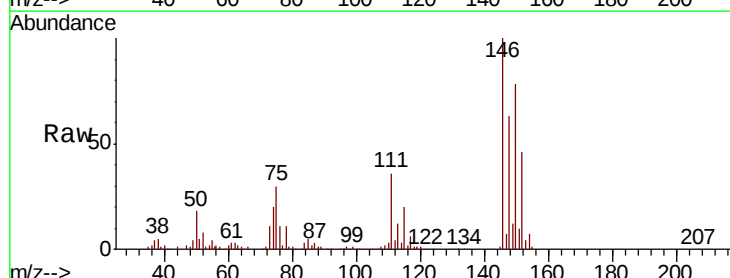
Manual Integrations
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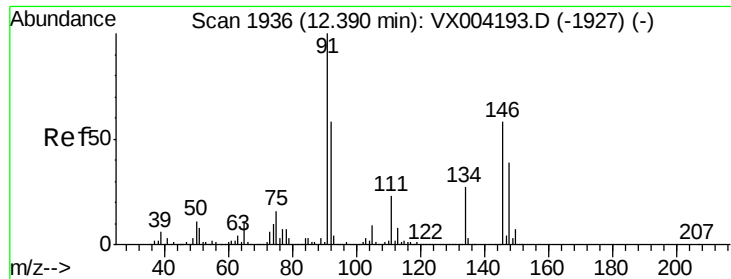
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 8/23/2018 9:39:41 AM



#88
 1,4-Dichlorobenzene
 Concen: 4.90 ug/l
 RT: 12.10 min Scan# 1888
 Delta R.T. -0.00 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
146	100		
111	42.2	18.1	54.1
148	65.0	32.0	96.0





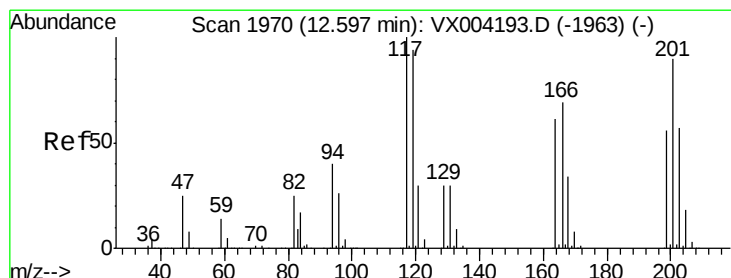
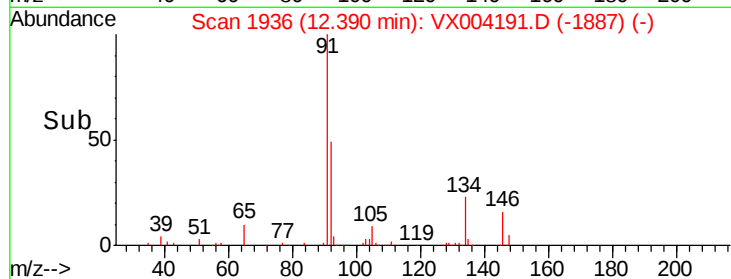
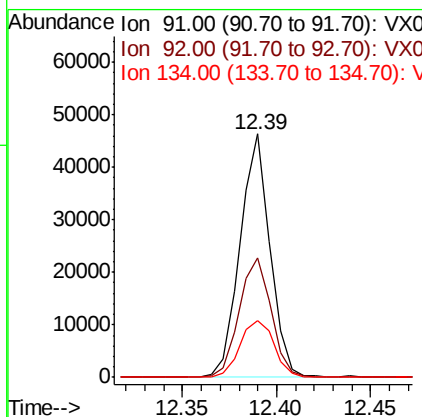
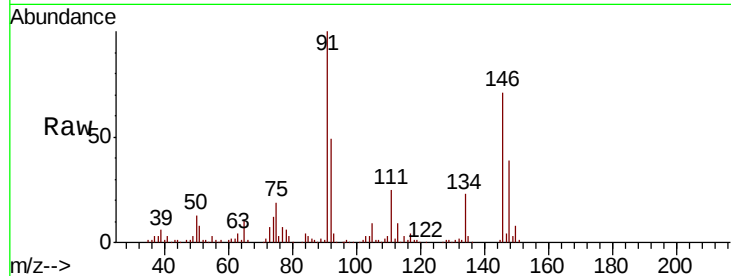
#89
n-Butylbenzene
Concen: 4.31 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.0	27.3	81.9
134	26.5	13.6	40.7

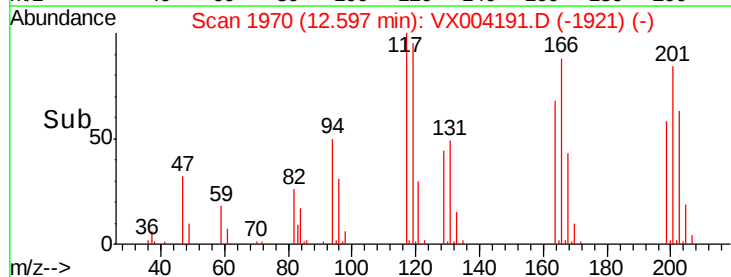
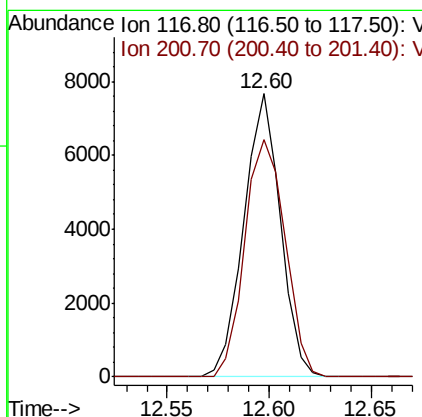
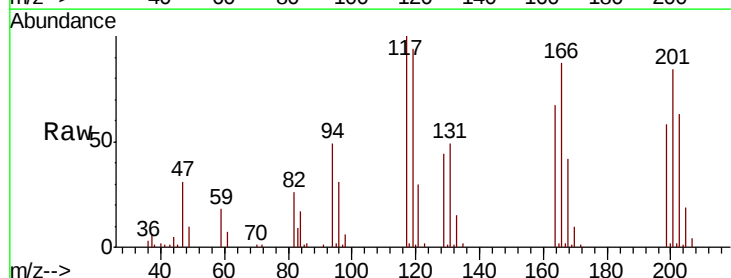
Manual Integrations
APPROVED

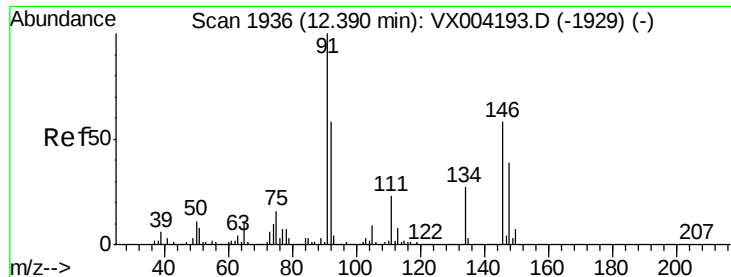
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#90
Hexachloroethane
Concen: 4.66 ug/l
RT: 12.60 min Scan# 1970
Delta R.T. -0.00 min
Lab File: VX004191.D
Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
117	100		
201	92.6	46.9	140.6





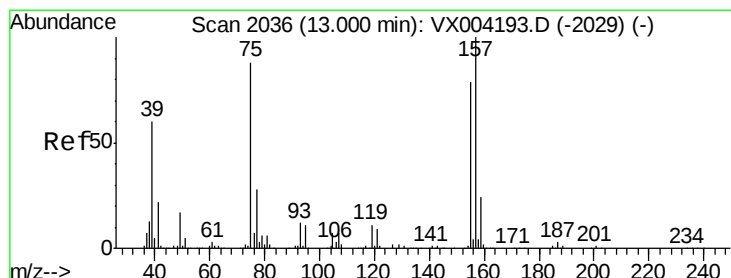
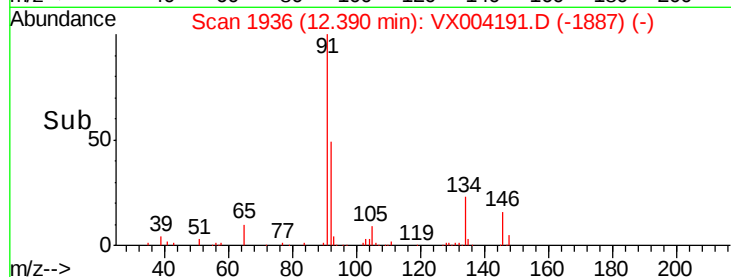
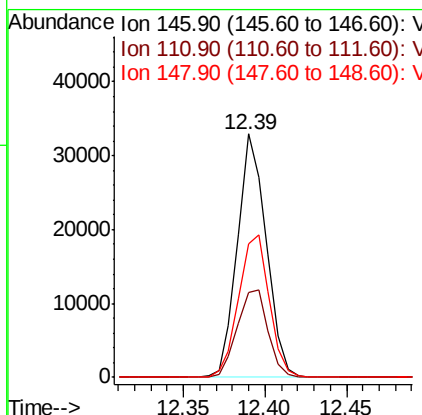
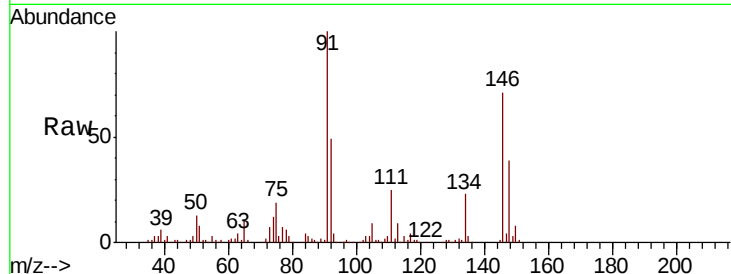
#91
 1,2-Dichlorobenzene
 Concen: 5.11 ug/l
 RT: 12.39 min Scan# 1936
 Delta R.T. -0.00 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.3	19.4	58.1
148	62.0	32.8	98.3

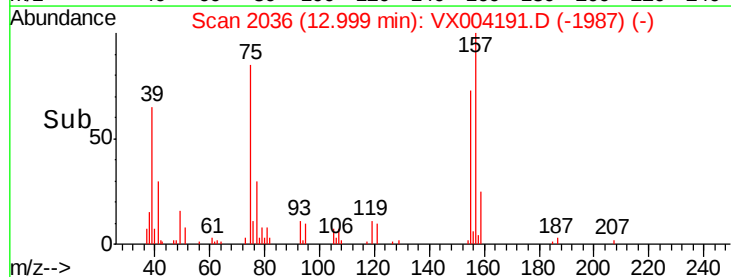
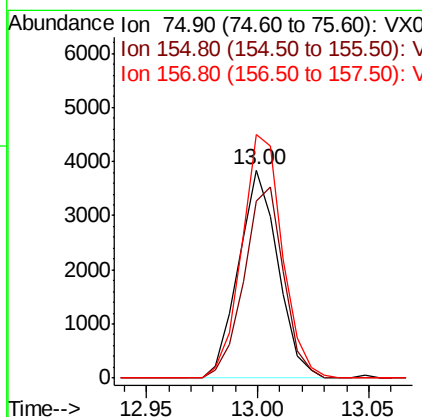
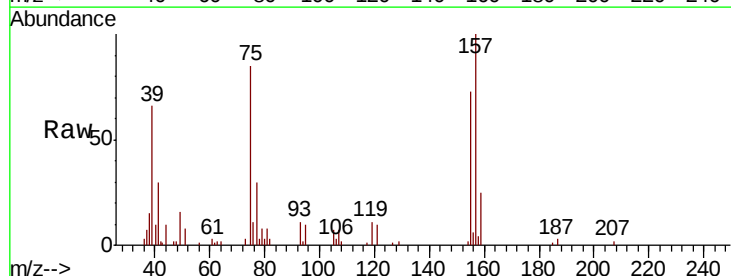
Manual Integrations
 APPROVED

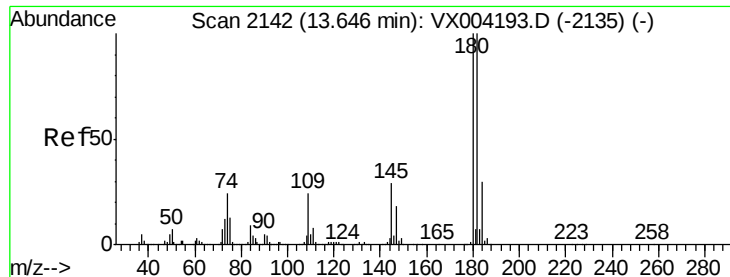
MMDadoda
 8/23/2018 9:39:41 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 4.66 ug/l
 RT: 13.00 min Scan# 2036
 Delta R.T. -0.00 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.4	48.0	144.2
157	120.8	61.4	184.1





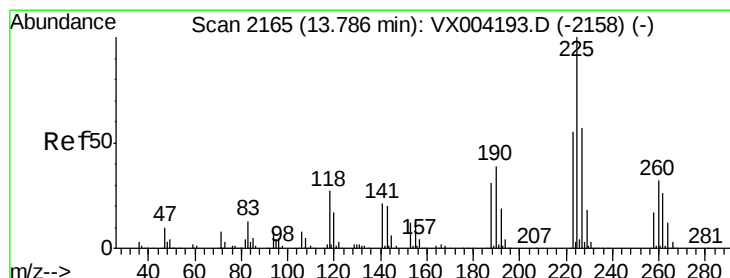
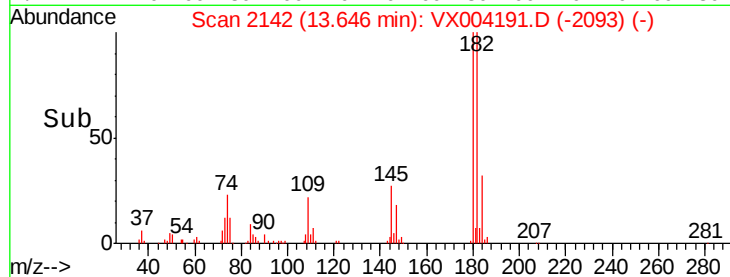
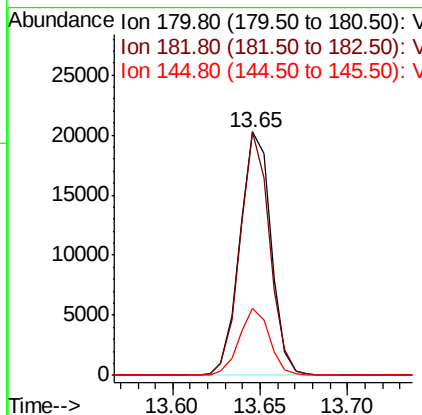
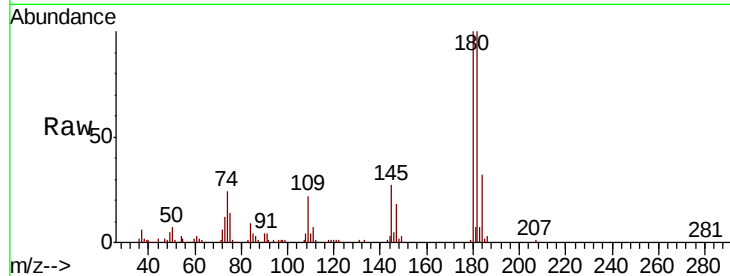
#93
 1,2,4-Trichlorobenzene
 Concen: 4.33 ug/l
 RT: 13.65 min Scan# 2142
 Delta R.T. -0.00 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Resp	Lower	Upper
180	100	25093		
182	95.0		48.4	145.0
145	26.8		14.3	42.9

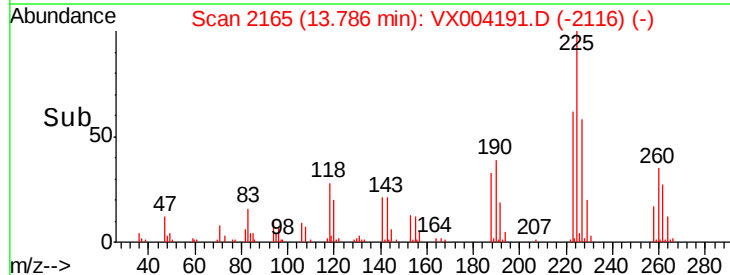
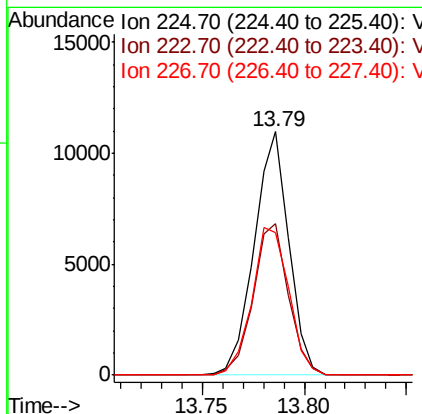
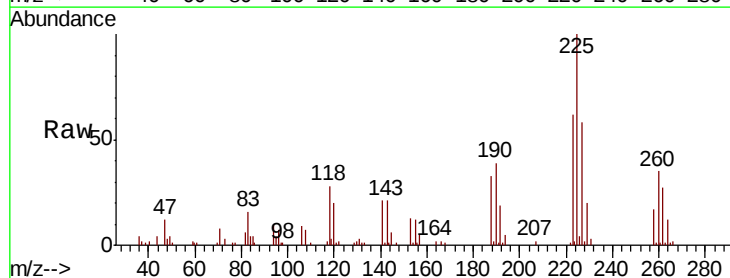
Manual Integrations
 APPROVED

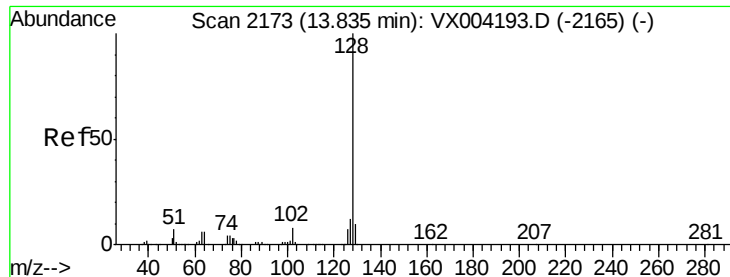
MMDadoda
 8/23/2018 9:39:41 AM



#94
 Hexachlorobutadiene
 Concen: 4.54 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. -0.00 min
 Lab File: VX004191.D
 Acq: 22 Aug 2018 10:48

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	12927		
223	63.4		30.1	90.5
227	64.8		30.8	92.4





#95

Naphthalene

Concen: 4.05 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Instrument :

MSVOA_X

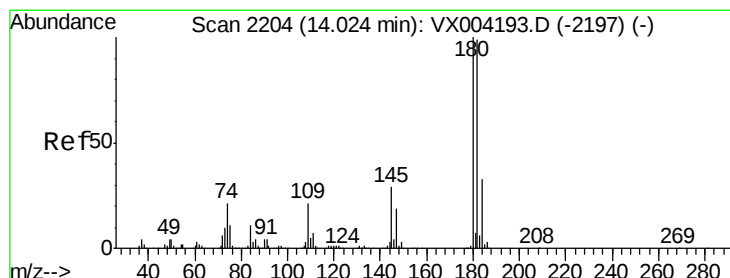
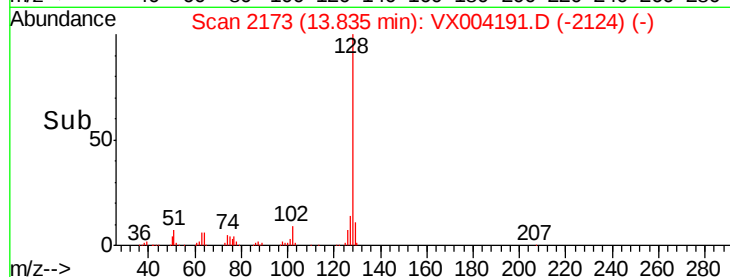
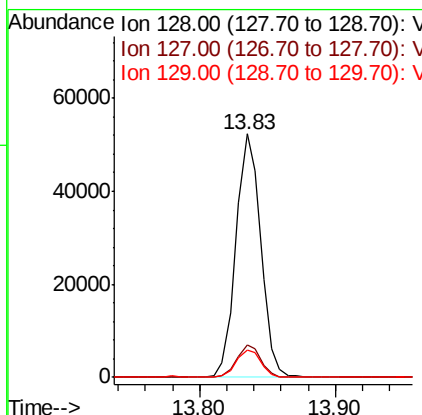
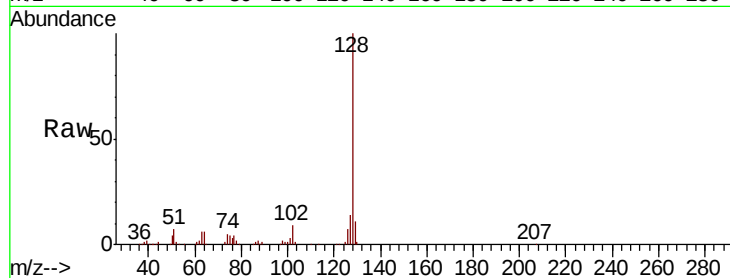
ClientSampleId :

VSTDIC005

Tot Ion:	128	Resp:	66449
Ion Ratio	Lower	Upper	
128	100		
127	12.9	10.2	15.2
129	11.1	8.6	12.8

Manual Integrations
APPROVED

MMDadoda
8/23/2018 9:39:41 AM



#96

1,2,3-Trichlorobenzene

Concen: 4.39 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. -0.00 min

Lab File: VX004191.D

Acq: 22 Aug 2018 10:48

Tgt Ion:	180	Resp:	26951
Ion Ratio	Lower	Upper	
180	100		
182	98.1	48.5	145.6
145	30.5	14.9	44.9

