

Data Path : Z:\VOASRV\HPCHEM1\MSVOA X\DATA\WX072418\
 Data File : VX003643.D
 Acq On : 24 Jul 2018 16:41
 Operator : JC/SP
 Sample : VSTDIC005
 Misc : 5.0mL/MSVOA X/WATER
 ALS Vial : 3 Sample Multiplier: 1

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Manual Integrations
 APPROVED

MMDadoda
 8/2/2018 11:54:15 AM

Quant Time: Jul 25 04:06:46 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_X\METHOD\82X072418W.M
 Quant Title : SW846 8260
 QLast Update : Wed Jul 25 03:58:23 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	5.66	168	116406	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	6.87	114	170659	50.00	ug/l	0.00
63) Chlorobenzene-d5	10.12	117	162674	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	12.08	152	93298	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	6.07	65	9201	6.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	12.68%	
35) Dibromofluoromethane	5.50	113	7146	5.37	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.74%	
50) Toluene-d8	8.72	98	26700	5.34	ug/l	0.00
Spiked Amount	50.000		Recovery	=	10.68%	
62) 4-Bromofluorobenzene	11.14	95	8888	4.87	ug/l	0.00
Spiked Amount	50.000		Recovery	=	9.74%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.20	85	7333	6.573	ug/l	89
3) Chloromethane	1.32	50	8527	6.099	ug/l	98
4) Vinyl Chloride	1.40	62	8944	5.885	ug/l	99
5) Bromomethane	1.64	94	3914	4.462	ug/l	97
6) Chloroethane	1.72	64	5762	6.273	ug/l	99
7) Trichlorofluoromethane	1.92	101	11528	5.657	ug/l	98
8) Diethyl Ether	2.19	74	5064	5.791	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	2.38	101	7389	5.598	ug/l	96
10) Methyl Iodide	2.51	142	6517	4.064	ug/l	99
11) Tert butyl alcohol	3.09	59	10409	34.814	ug/l	98
12) 1,1-Dichloroethene	2.37	96	6752	5.546	ug/l	95
13) Acrolein	2.29	56	2930	20.591	ug/l	92
14) Allyl chloride	2.72	41	13778	6.177	ug/l	99
15) Acrylonitrile	3.15	53	24992	33.557	ug/l	98
16) Acetone	2.45	43	19770	34.828	ug/l	97
17) Carbon Disulfide	2.56	76	17855	4.926	ug/l	99
18) Methyl Acetate	2.78	43	11832	6.680	ug/l	99
19) Methyl tert-butyl Ether	3.21	73	23282	5.764	ug/l	96
20) Methylene Chloride	2.86	84	8064	5.340	ug/l	96
21) trans-1,2-Dichloroethene	3.16	96	7168	5.288	ug/l	93
22) Diisopropyl ether	3.88	45	26175	6.266	ug/l	93
23) Vinyl Acetate	3.82	43	111913	32.225	ug/l	100
24) 1,1-Dichloroethane	3.70	63	14524	6.019	ug/l	99
25) 2-Butanone	4.71	43	31041	33.096	ug/l	92
26) 2,2-Dichloropropane	4.57	77	8849	4.962	ug/l	99
27) cis-1,2-Dichloroethene	4.60	96	7793	5.199	ug/l	31
28) Bromochloromethane	5.02	49	6439	6.230	ug/l #	100
29) Tetrahydrofuran	5.17	42	19345	31.042	ug/l	99
30) Chloroform	5.21	83	13187	5.654	ug/l	89
31) Cyclohexane	5.57	56	10795	5.063	ug/l	94
32) 1,1,1-Trichloroethane	5.50	97	10510	5.263	ug/l	98
36) 1,1-Dichloropropene	5.79	75	9822	5.246	ug/l	97
37) Ethyl Acetate	4.87	43	12163	6.570	ug/l	99
38) Carbon Tetrachloride	5.79	117	9084	4.975	ug/l	89

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	7.46	83	10161	4.583	ug/l	97
40) Benzene	6.15	78	29042	5.117	ug/l	93
41) Methacrylonitrile	5.07	41	6300	5.814	ug/l	96
42) 1,2-Dichloroethane	6.20	62	10749	5.899	ug/l	100
43) Isopropyl Acetate	6.47	43	16906	5.778	ug/l	99
44) Trichloroethene	7.21	130	8038	4.847	ug/l	99
45) 1,2-Dichloropropane	7.52	63	7675	5.308	ug/l	99
46) Dibromomethane	7.67	93	4803	5.178	ug/l	98
47) Bromodichloromethane	7.90	83	8771	5.145	ug/l	99
48) Methyl methacrylate	7.78	41	8198	5.548	ug/l	98
49) 1,4-Dioxane	7.76	88	3682	110.532	ug/l	95
51) 4-Methyl-2-Pentanone	8.65	43	55114	29.547	ug/l	99
52) Toluene	8.79	92	17752	4.994	ug/l	100
53) t-1,3-Dichloropropene	8.44	75	10031	4.795	ug/l	99
54) cis-1,3-Dichloropropene	9.05	75	8811	4.671	ug/l	95
55) 1,1,2-Trichloroethane	9.22	97	7563	5.317	ug/l	98
56) Ethyl methacrylate	9.18	69	10053	4.963	ug/l	97
57) 1,3-Dichloropropane	9.37	76	12425	5.375	ug/l	100
58) 2-Chloroethyl Vinyl ether	8.32	63	26433	26.541	ug/l	99
59) 2-Hexanone	9.50	43	41973	30.119	ug/l	97
60) Dibromochloromethane	9.59	129	6420	4.593	ug/l	98
61) 1,2-Dibromoethane	9.68	107	7586	5.149	ug/l	100
64) Tetrachloroethene	9.34	164	7160	3.763	ug/l	95
65) Chlorobenzene	10.14	112	20076	4.792	ug/l	98
66) 1,1,1,2-Tetrachloroethane	10.23	131	6585	4.570	ug/l	98
67) Ethyl Benzene	10.26	91	32517	4.786	ug/l	98
68) m/p-Xylenes	10.36	106	24462	9.217	ug/l	99
69) o-Xylene	10.70	106	11761	4.590	ug/l	98
70) Styrene	10.71	104	19202	4.542	ug/l	99
71) Bromoform	10.86	173	4711	4.201	ug/l #	99
73) Isopropylbenzene	11.02	105	31352	4.845	ug/l	99
74) N-amyl acetate	6.47	43	16906	5.926	ug/l #	100
75) 1,1,2,2-Tetrachloroethane	11.27	83	12209	6.216	ug/l	99
76) 1,2,3-Trichloropropane	11.30	75	10100m	5.857	ug/l	
77) Bromobenzene	11.26	156	8531	4.628	ug/l	97
78) n-propylbenzene	11.36	91	35084	4.840	ug/l	100
79) 2-Chlorotoluene	11.42	91	22275	5.066	ug/l	99
80) 1,3,5-Trimethylbenzene	11.51	105	25916	4.844	ug/l	99
81) trans-1,4-Dichloro-2-buten	11.08	75	2652	4.876	ug/l #	85
82) 4-Chlorotoluene	11.51	91	25802	5.000	ug/l	98
83) tert-Butylbenzene	11.77	119	25423	4.859	ug/l	99
84) 1,2,4-Trimethylbenzene	11.81	105	26433	4.851	ug/l	99
85) sec-Butylbenzene	11.95	105	30626	4.826	ug/l	100
86) p-Isopropyltoluene	12.07	119	26469	4.654	ug/l	98
87) 1,3-Dichlorobenzene	12.03	146	16049	4.714	ug/l	98
88) 1,4-Dichlorobenzene	12.10	146	16881	4.806	ug/l	93
89) n-Butylbenzene	12.39	91	23295	4.786	ug/l	98
90) Hexachloroethane	12.60	117	3884	4.759	ug/l	96
91) 1,2-Dichlorobenzene	12.40	146	16005	4.764	ug/l	98
92) 1,2-Dibromo-3-Chloropropan	13.01	75	2298	5.910	ug/l	97

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MSVOA_X
ClientSampleId :
VSTDICC005

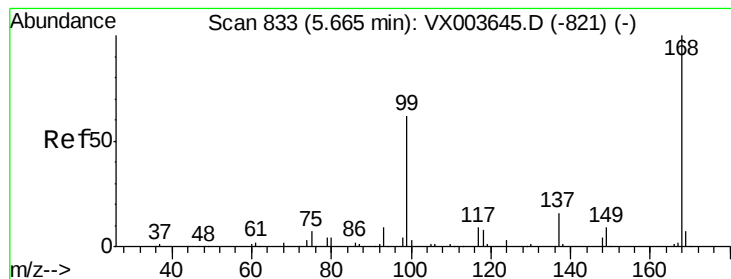
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	13.65	180	10809	4.398	ug/l	99
94) Hexachlorobutadiene	13.79	225	5196	4.442	ug/l	97
95) Naphthalene	13.83	128	32040	4.842	ug/l	99
96) 1,2,3-Trichlorobenzene	14.02	180	11328	4.630	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 5.66 min Scan# 832

Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:168 Resp: 116406

Ion Ratio Lower Upper

168 100

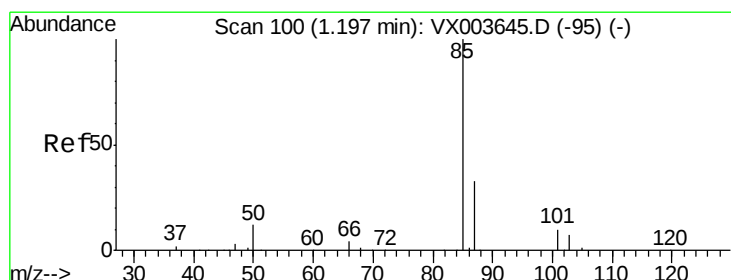
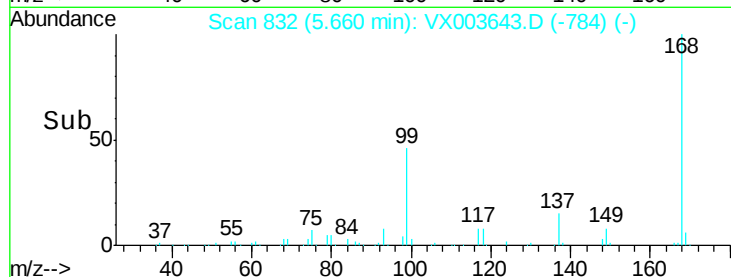
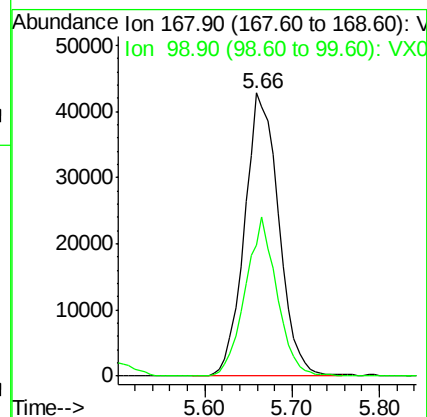
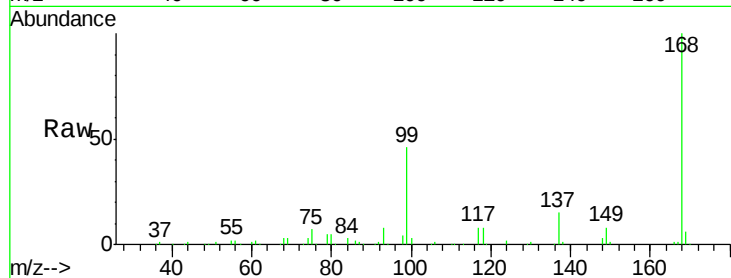
99 46.3 49.5 74.3#

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#2

Dichlorodifluoromethane

Concen: 6.573 ug/l

RT: 1.20 min Scan# 100

Delta R.T. 0.00 min

Lab File: VX003643.D

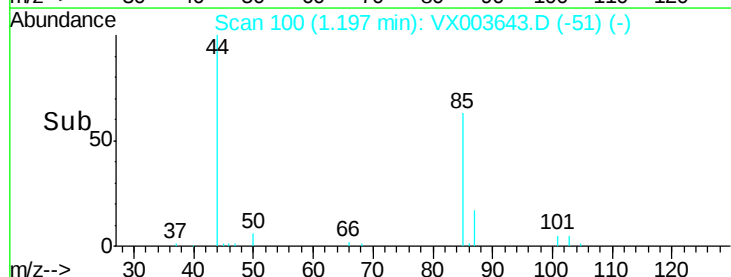
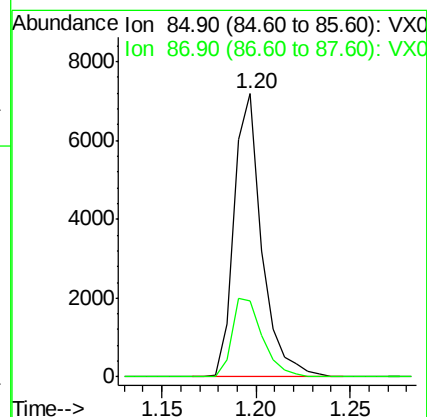
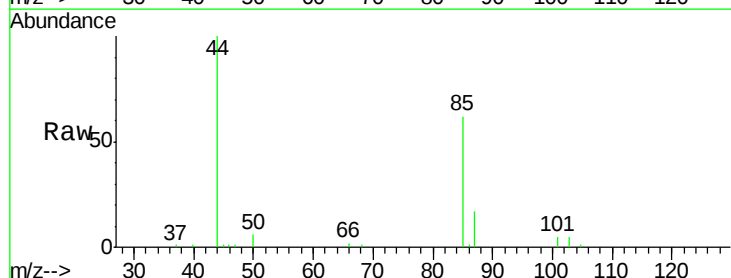
Acq: 24 Jul 2018 16:41

Tgt Ion: 85 Resp: 7333

Ion Ratio Lower Upper

85 100

87 26.8 16.5 49.5





#3

Chloromethane

Concen: 6.099 ug/l

RT: 1.32 min Scan# 121

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 50 Resp: 8527

Ion Ratio Lower Upper

50 100

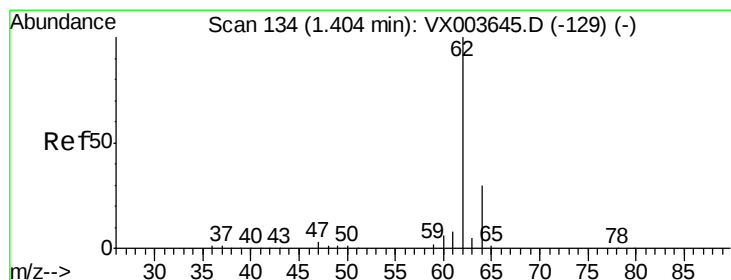
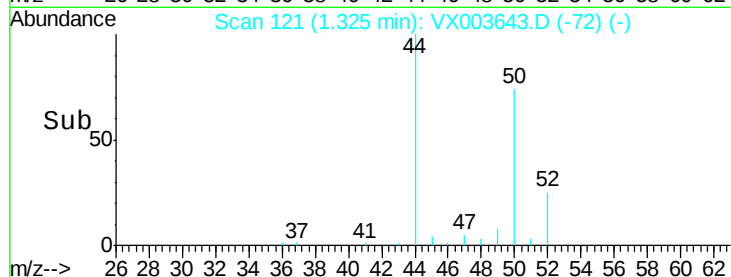
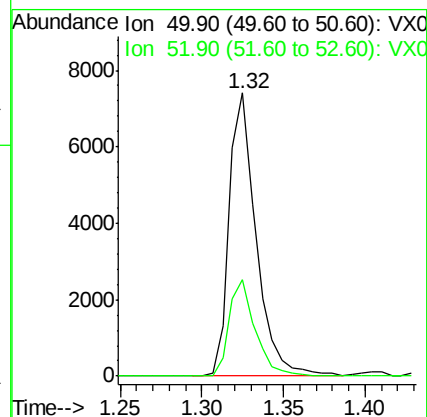
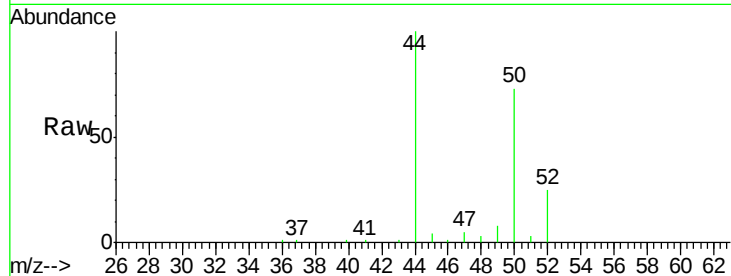
52 34.1 26.3 39.5

Manual Integrations

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#4

Vinyl Chloride

Concen: 5.885 ug/l

RT: 1.40 min Scan# 134

Delta R.T. 0.00 min

Lab File: VX003643.D

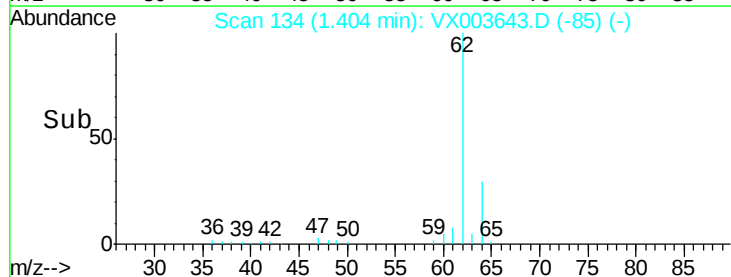
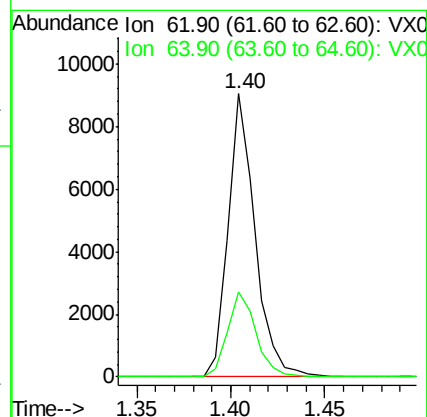
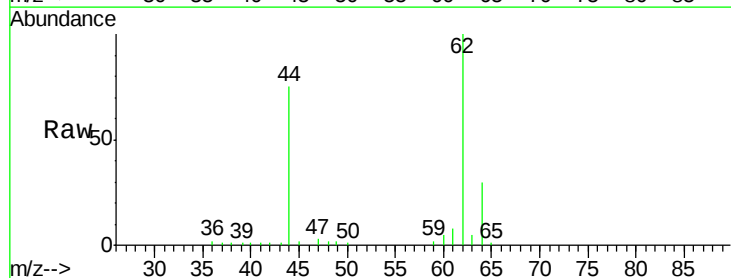
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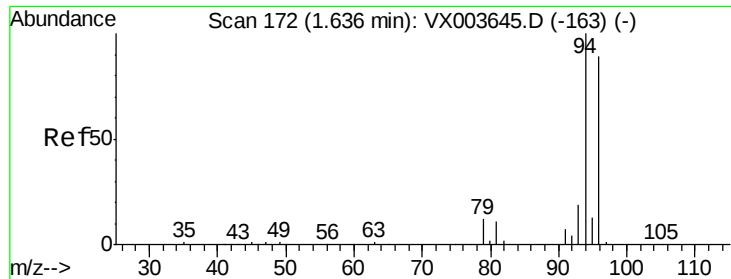
Tgt Ion: 62 Resp: 8944

Ion Ratio Lower Upper

62 100

64 30.2 24.4 36.6





#5

Bromomethane

Concen: 4.462 ug/l

RT: 1.64 min Scan# 172

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 94 Resp: 3914

Ion Ratio Lower Upper

94 100

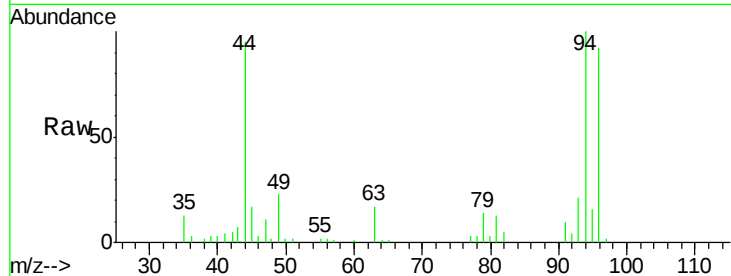
96 92.1 71.3 106.9

Manual Integrations

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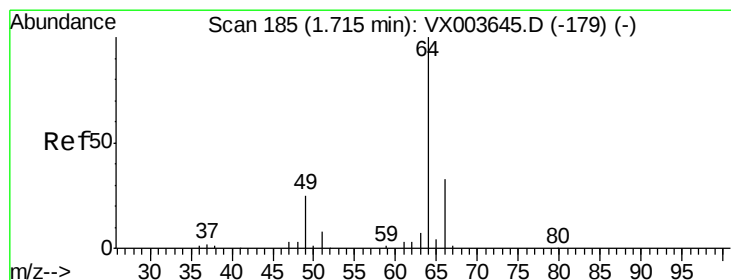
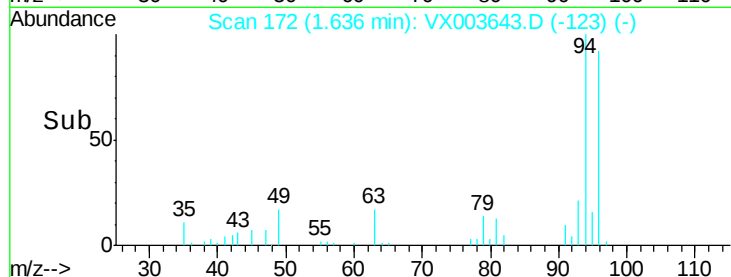
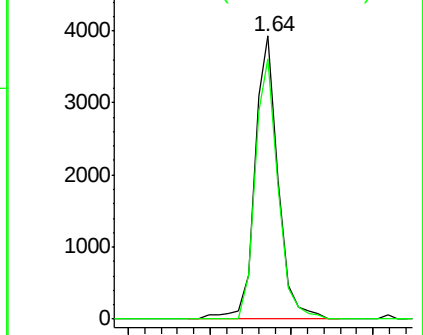
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Abundance Ion 93.90 (93.60 to 94.60): VX0

Ion 95.90 (95.60 to 96.60): VX0



#6

Chloroethane

Concen: 6.273 ug/l

RT: 1.72 min Scan# 185

Delta R.T. 0.00 min

Lab File: VX003643.D

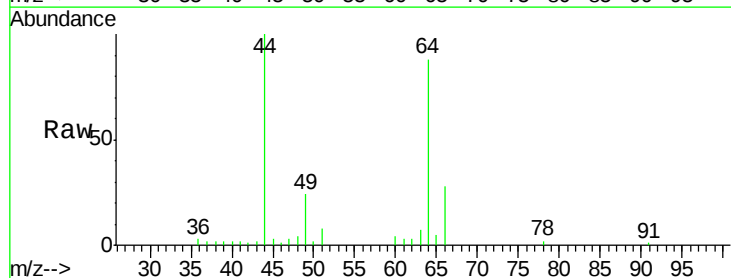
Acq: 24 Jul 2018 16:41

Tgt Ion: 64 Resp: 5762

Ion Ratio Lower Upper

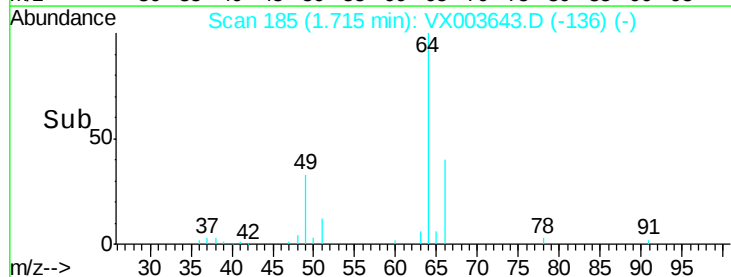
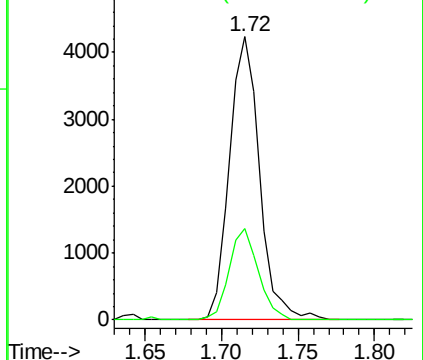
64 100

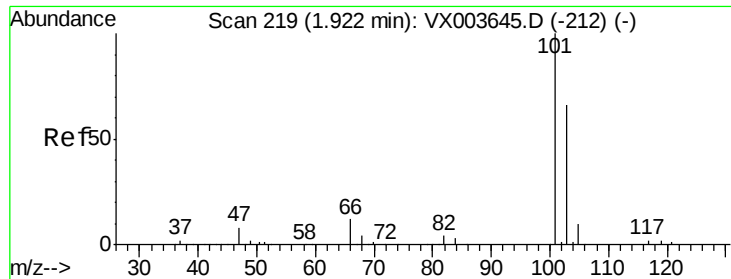
66 32.1 26.3 39.5



Abundance Ion 63.90 (63.60 to 64.60): VX0

Ion 65.90 (65.60 to 66.60): VX0





#7

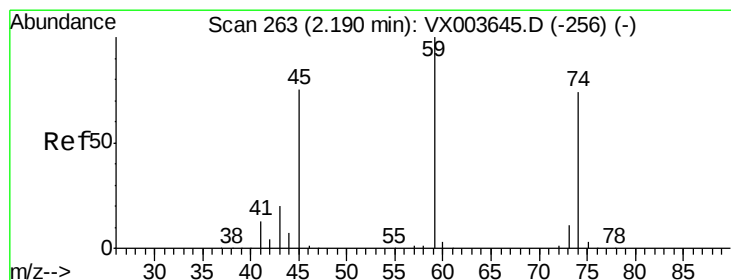
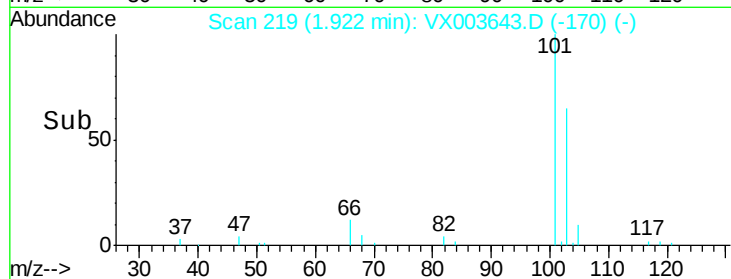
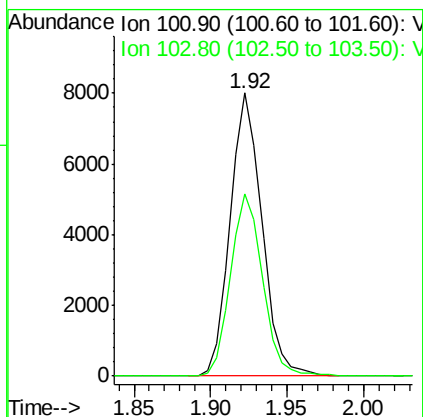
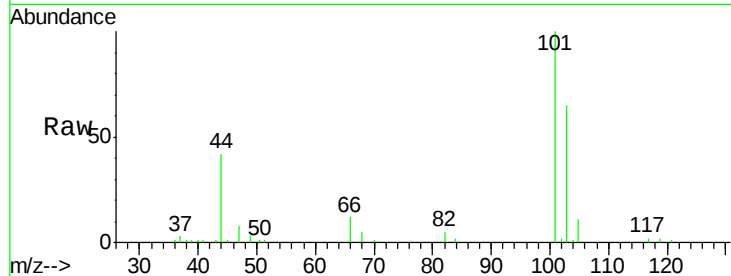
Trichlorofluoromethane
Concen: 5.657 ug/l
RT: 1.92 min Scan# 219
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Instrument :
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ClientSampleId :
VSTDIC005

Tot Ion:101 Resp: 11528
Ion Ratio Lower Upper
101 100
103 64.5 53.2 79.8

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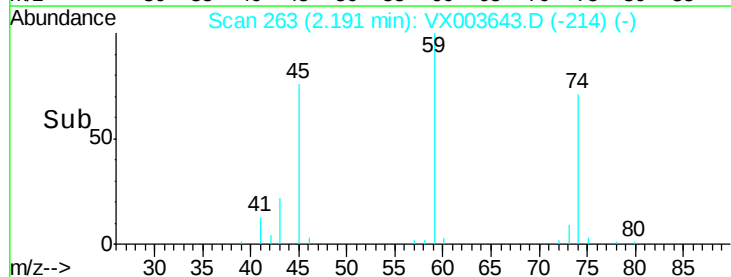
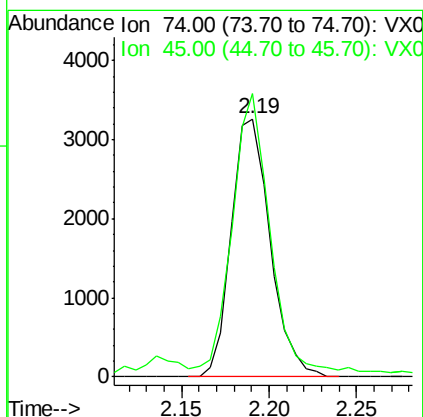
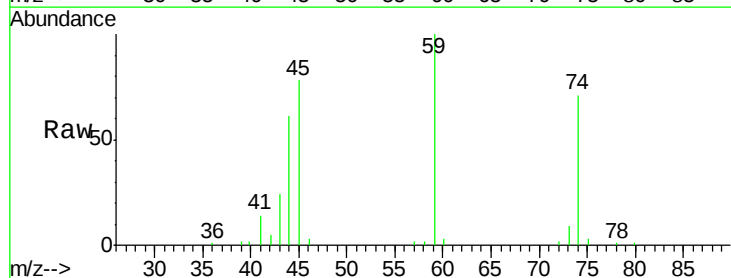
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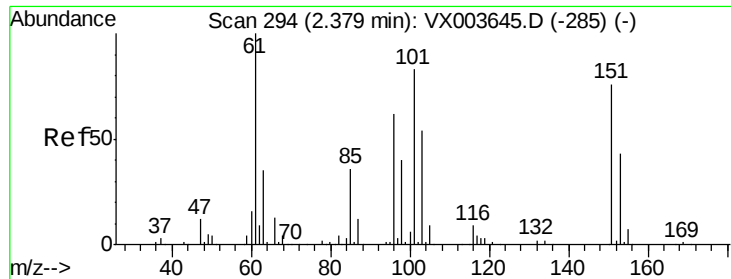


#8

Diethyl Ether
Concen: 5.791 ug/l
RT: 2.19 min Scan# 263
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tgt Ion: 74 Resp: 5064
Ion Ratio Lower Upper
74 100
45 103.3 51.0 153.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 5.598 ug/l

RT: 2.38 min Scan# 294

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

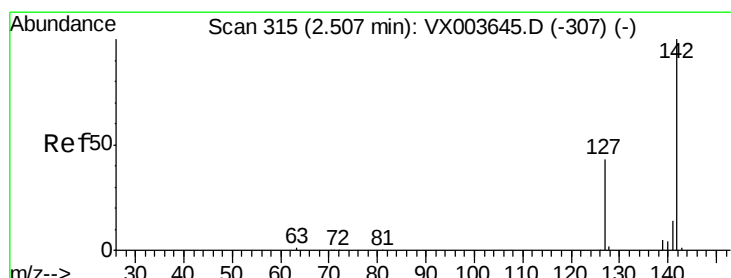
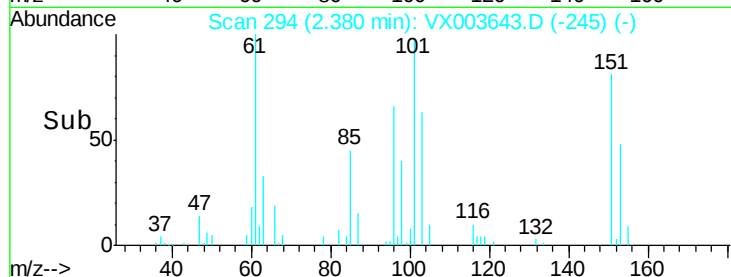
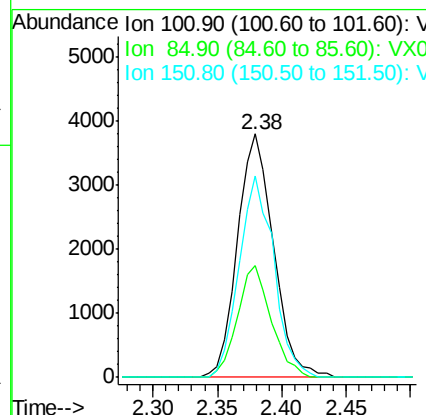
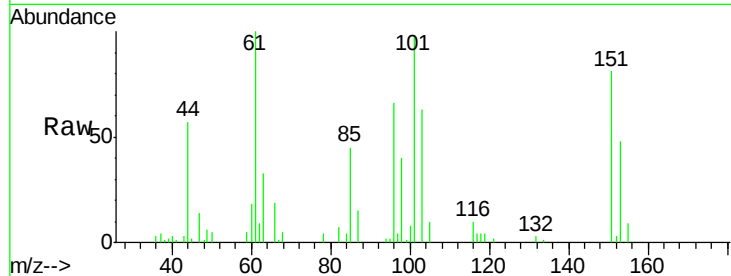
ClientSampleId :

VSTDIC005

Tot Ion:	101	Resp:	7389
Ion Ratio	Lower	Upper	
101	100		
85	43.0	34.6	52.0
151	79.5	67.5	101.3

Manual Integrations
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8/2/2018 11:54:15 AM



#10

Methyl Iodide

Concen: 4.064 ug/l

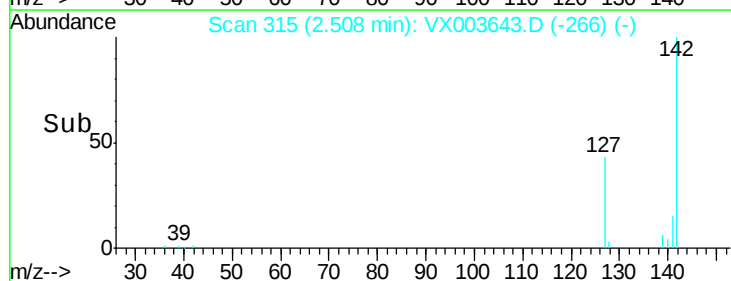
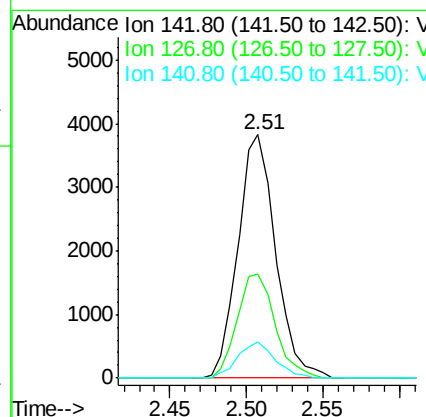
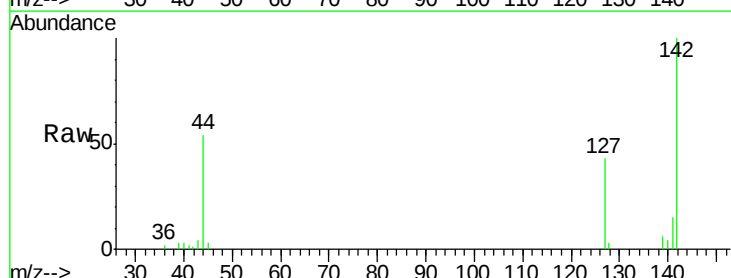
RT: 2.51 min Scan# 315

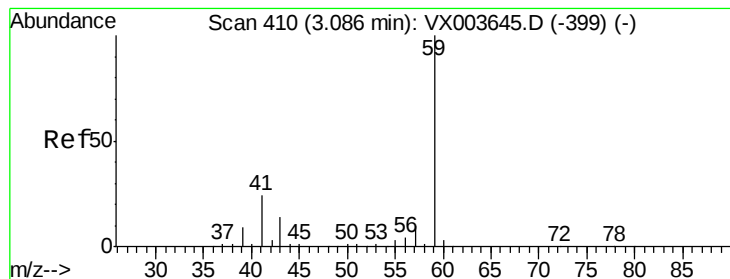
Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Tgt Ion:	142	Resp:	6517
Ion Ratio	Lower	Upper	
142	100		
127	43.2	34.0	51.0
141	14.7	11.3	16.9





#11

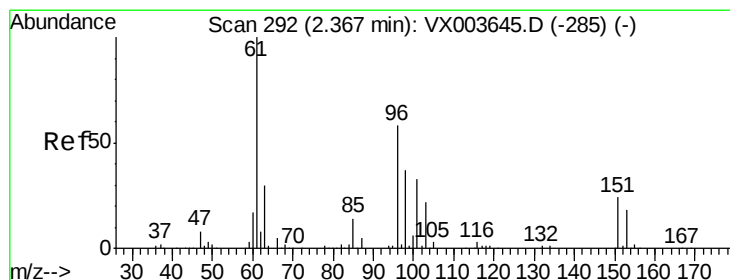
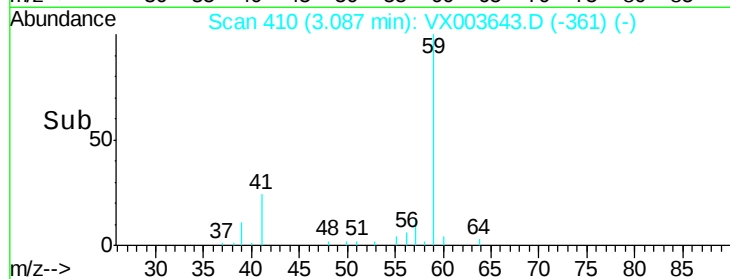
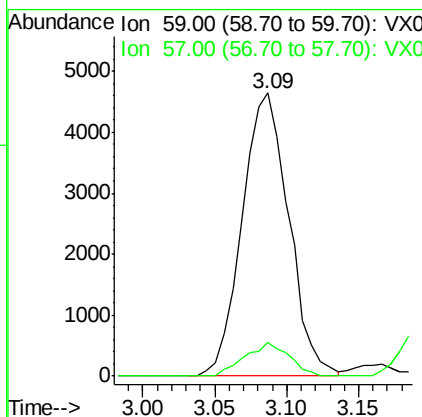
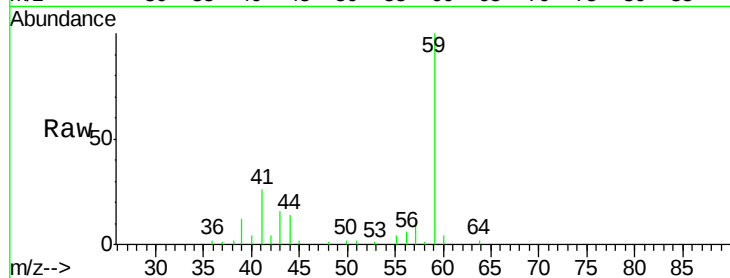
Tert butyl alcohol
 Concen: 34.814 ug/l
 RT: 3.09 min Scan# 410
 Delta R.T. 0.00 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Instrument :
 MSVOA_X
 ClientSampled :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
59	100		
57	11.2	8.2	12.4

Manual Integrations
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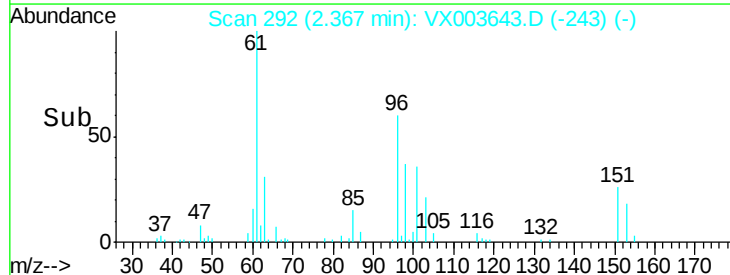
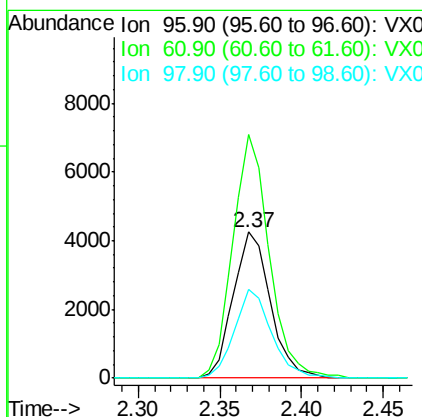
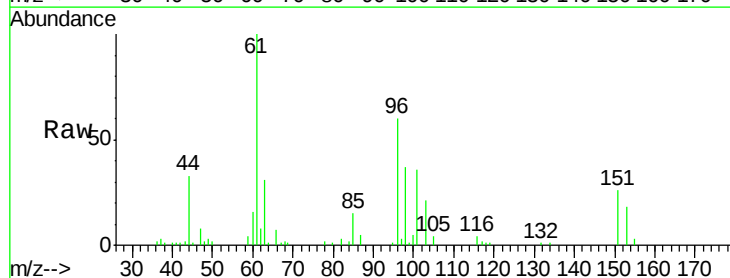
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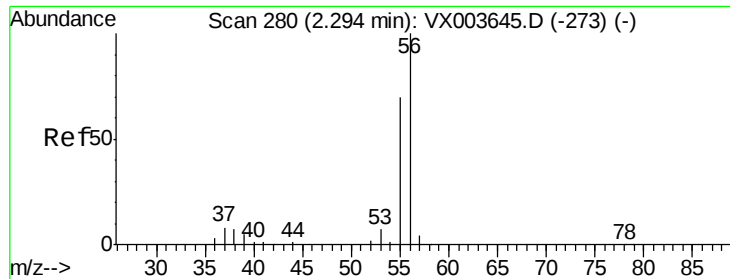


#12

1,1-Dichloroethene
 Concen: 5.546 ug/l
 RT: 2.37 min Scan# 292
 Delta R.T. 0.00 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Tgt Ion	Ratio	Lower	Upper
96	100		
61	166.6	138.8	208.2
98	61.1	51.4	77.2





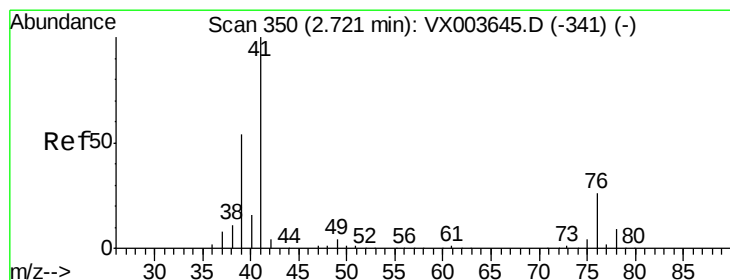
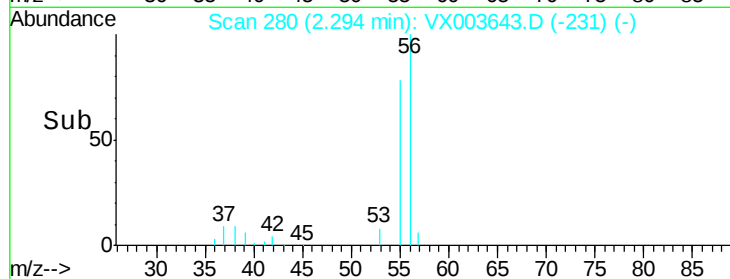
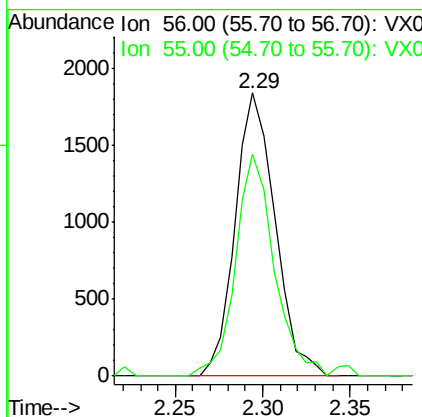
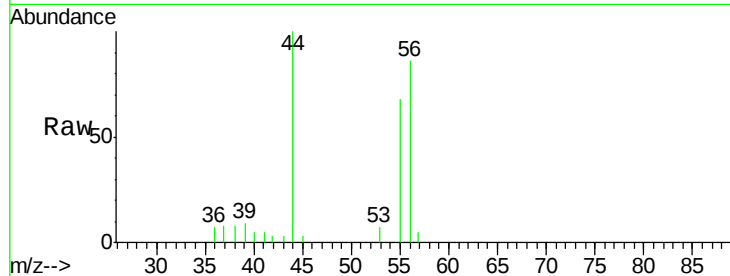
#13
 Acrolein
 Concen: 20.591 ug/l
 RT: 2.29 min Scan# 280
 Delta R.T. 0.00 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
56	100		
55	75.8	55.4	83.2

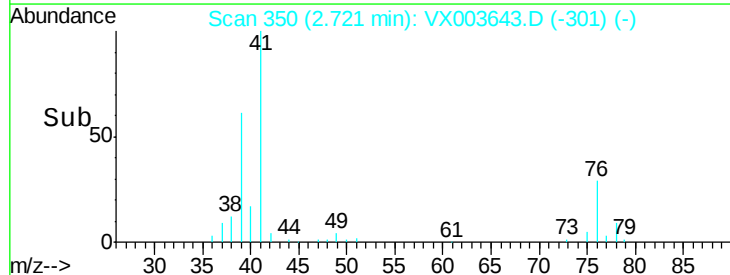
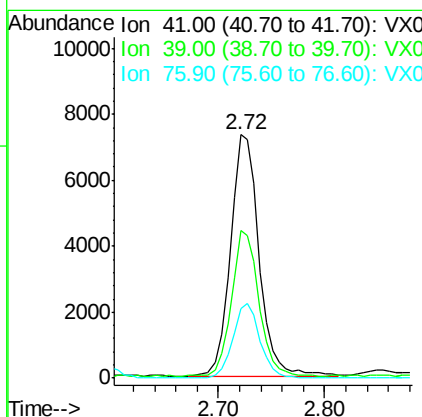
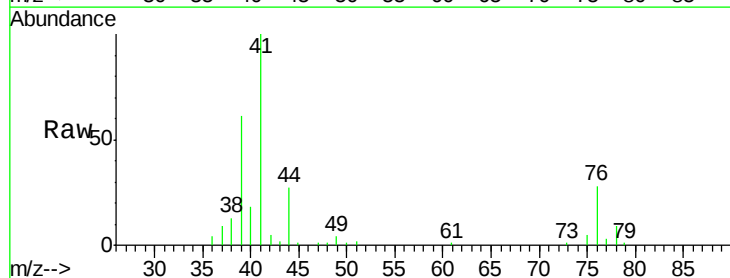
Manual Integrations
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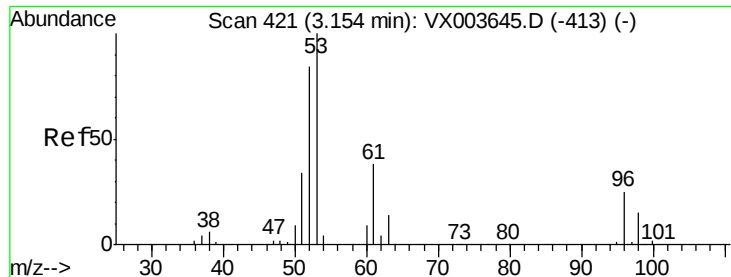
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 8/2/2018 11:54:15 AM



#14
 Allyl chloride
 Concen: 6.177 ug/l
 RT: 2.72 min Scan# 350
 Delta R.T. 0.00 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Tgt Ion	Ratio	Lower	Upper
41	100		
39	57.9	45.3	67.9
76	29.2	23.8	35.6





#15

Acrylonitrile

Concen: 33.557 ug/l

RT: 3.15 min Scan# 421

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

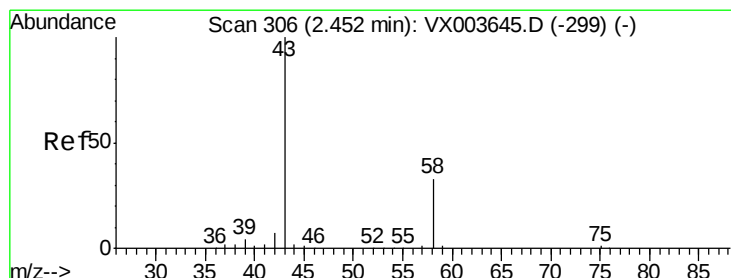
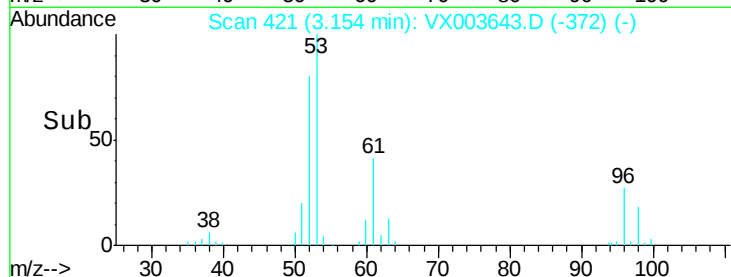
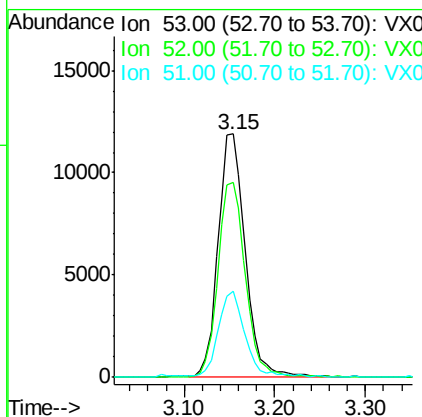
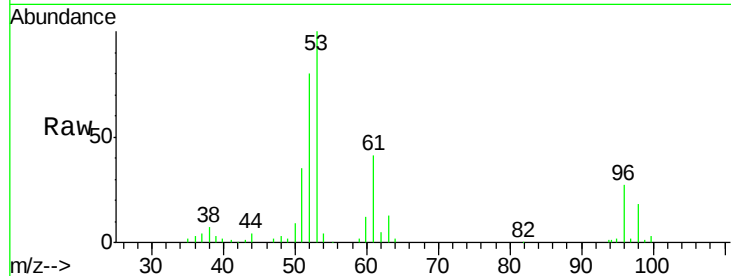
ClientSampled :

VSTDIC005

Tot Ion:	53	Resp:	24992
Ion	Ratio	Lower	Upper
53	100		
52	80.7	66.1	99.1
51	35.0	28.2	42.4

Manual Integrations
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#16

Acetone

Concen: 34.828 ug/l

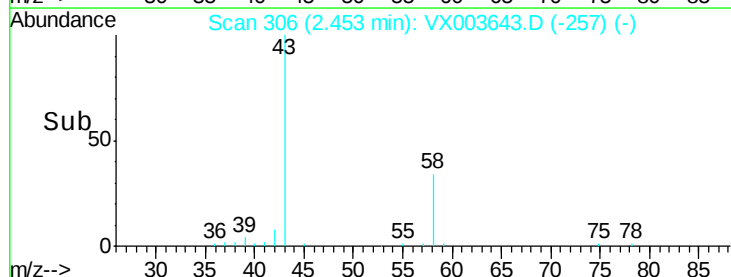
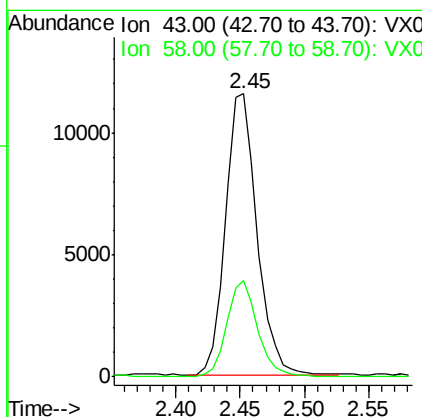
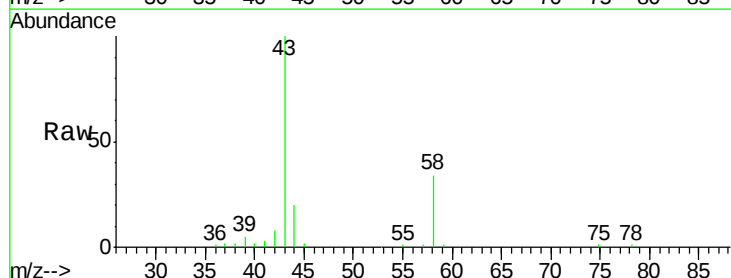
RT: 2.45 min Scan# 306

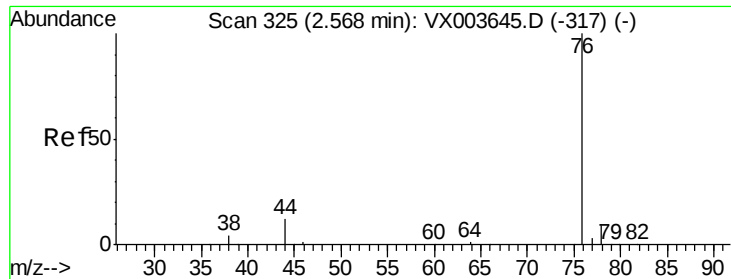
Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Tgt Ion:	43	Resp:	19770
Ion	Ratio	Lower	Upper
43	100		
58	34.2	26.1	39.1





#17

Carbon Disulfide

Concen: 4.926 ug/l

RT: 2.56 min Scan# 324

Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Tot Ion: 76 Resp: 17855

Ion Ratio Lower Upper

76 100

78 9.6 7.4 11.0

Instrument :

MSVOA_X

ClientSampleId :

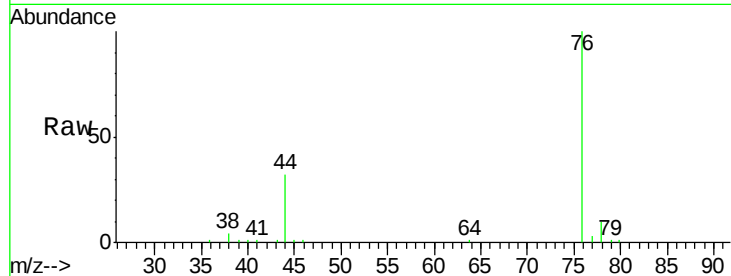
VSTDIC005

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

12000

10000

8000

6000

4000

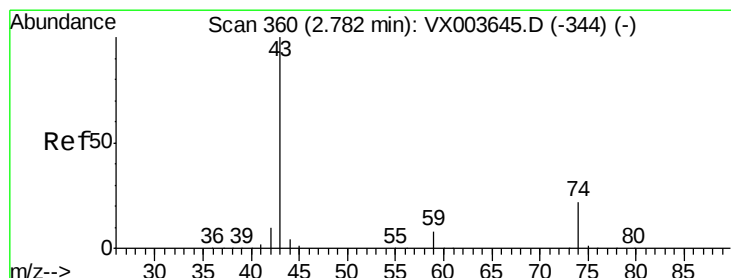
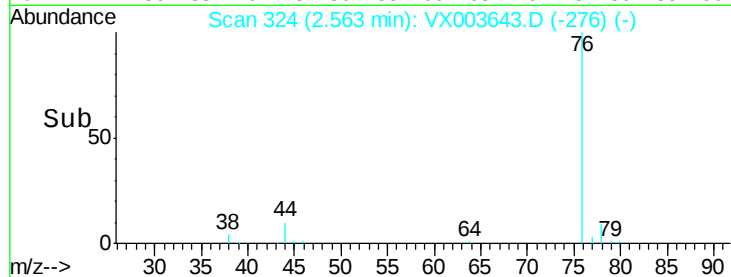
2000

0

Time-->

2.50 2.55 2.60 2.65

2.56



#18

Methyl Acetate

Concen: 6.680 ug/l

RT: 2.78 min Scan# 360

Delta R.T. 0.00 min

Lab File: VX003643.D

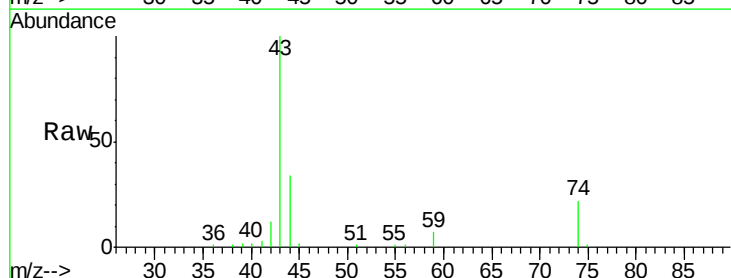
Acq: 24 Jul 2018 16:41

Tgt Ion: 43 Resp: 11832

Ion Ratio Lower Upper

43 100

74 21.7 17.8 26.8



Abundance Ion 43.00 (42.70 to 43.70): VX0

Ion 74.00 (73.70 to 74.70): VX0

8000

6000

4000

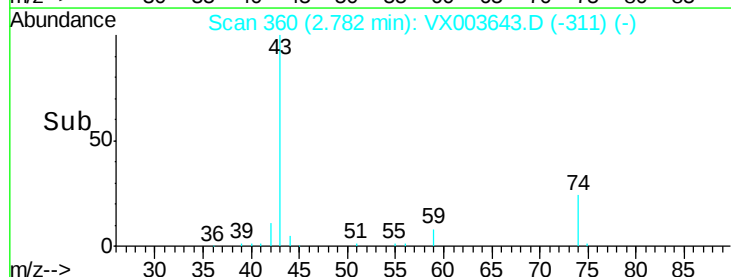
2000

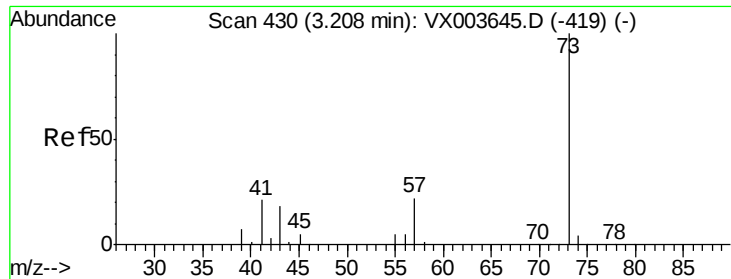
0

Time-->

2.70 2.75 2.80 2.85

2.78





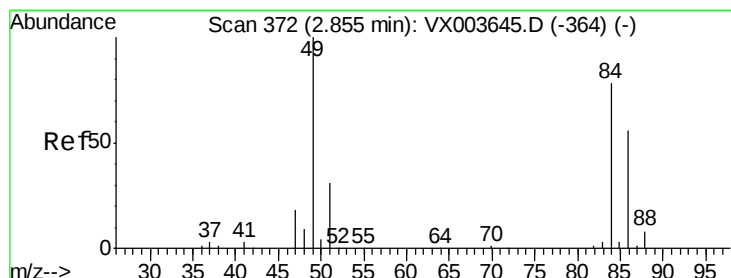
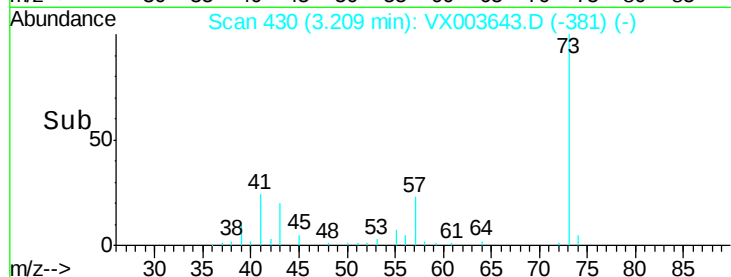
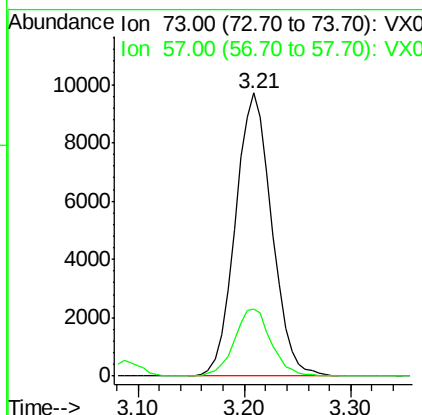
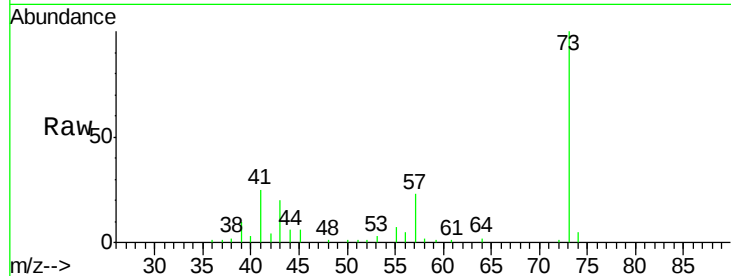
#19
Methyl tert-butyl Ether
Concen: 5.764 ug/l
RT: 3.21 min Scan# 430
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Instrument :
MSVOA_X
ClientSampled :
VSTDIC005

Tot Ion: 73 Resp: 23282
Ion Ratio Lower Upper
73 100
57 23.5 17.4 26.2

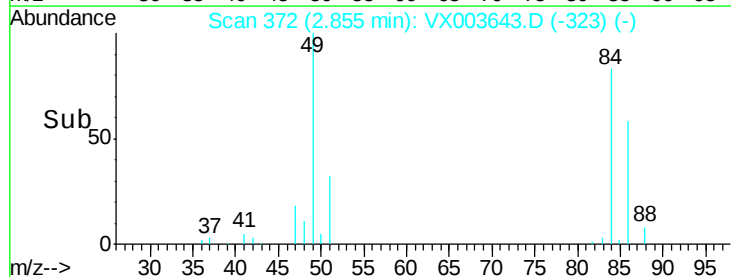
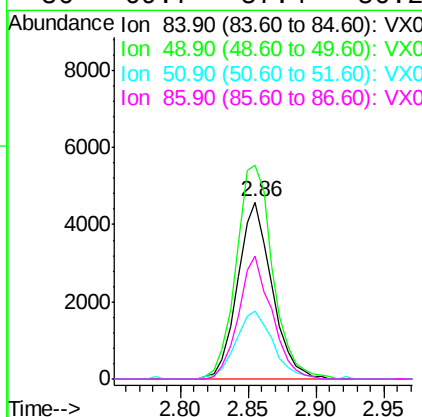
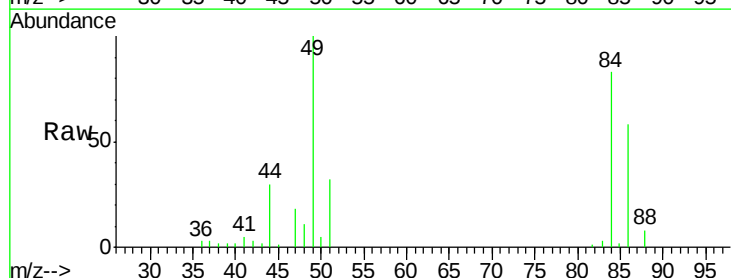
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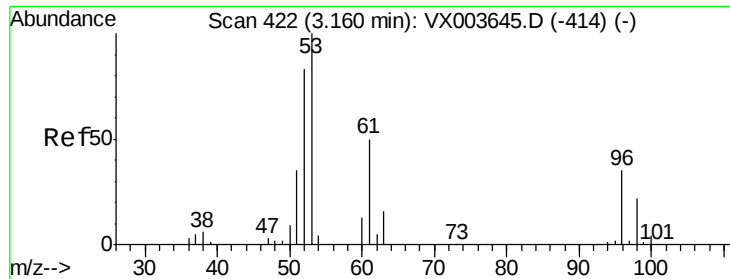
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#20
Methylene Chloride
Concen: 5.340 ug/l
RT: 2.86 min Scan# 372
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tgt Ion: 84 Resp: 8064
Ion Ratio Lower Upper
84 100
49 120.5 102.3 153.5
51 38.6 31.8 47.8
86 69.7 57.4 86.2





#21

trans-1,2-Dichloroethene

Concen: 5.288 ug/l

RT: 3.16 min Scan# 422

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

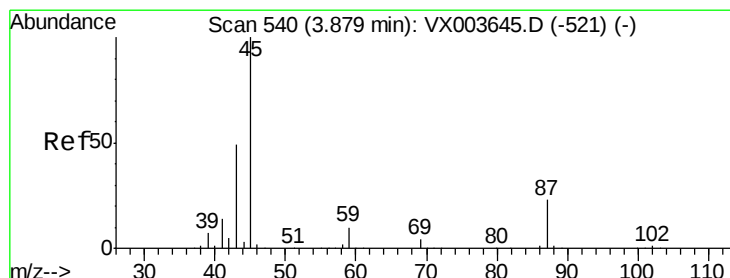
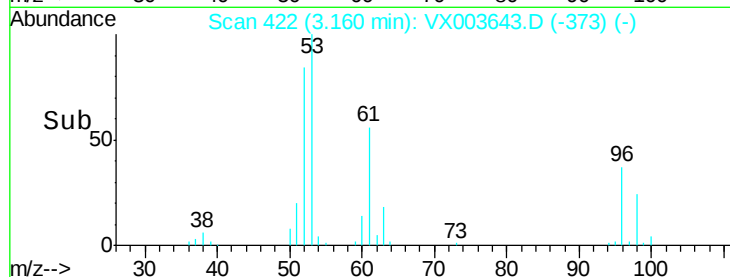
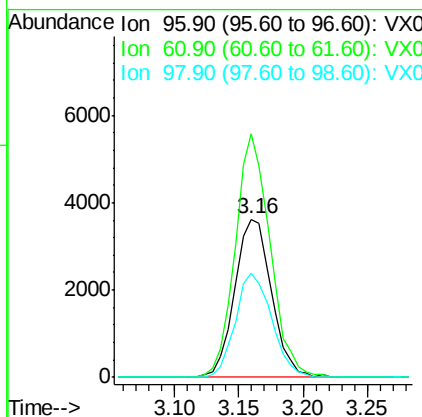
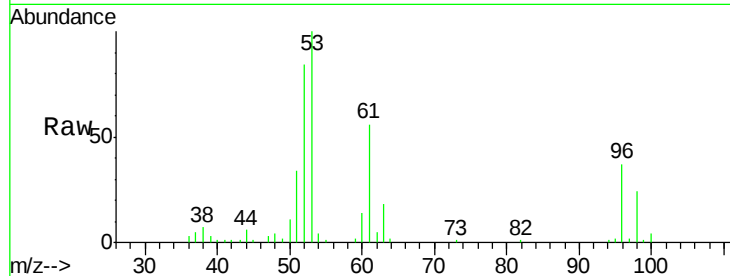
ClientSampleId :

VSTDIC005

Tot Ion:	96	Resp:	7168
Ion	Ratio	Lower	Upper
96	100		
61	154.2	115.0	172.4
98	65.9	49.7	74.5

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#22

Diisopropyl ether

Concen: 6.266 ug/l

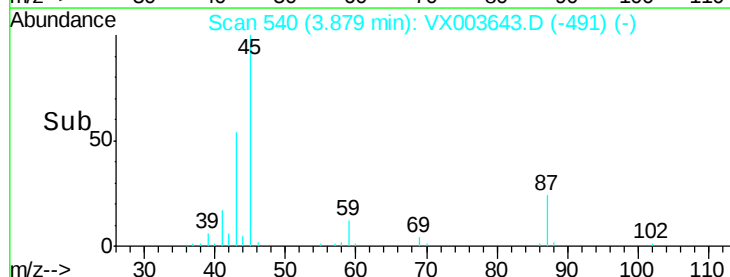
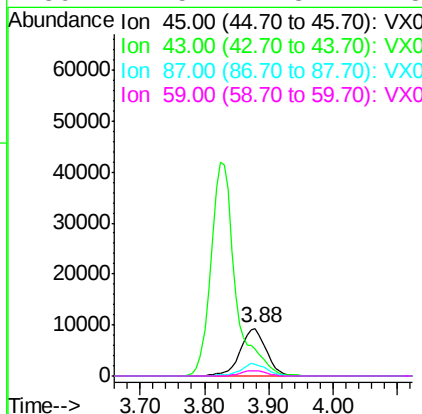
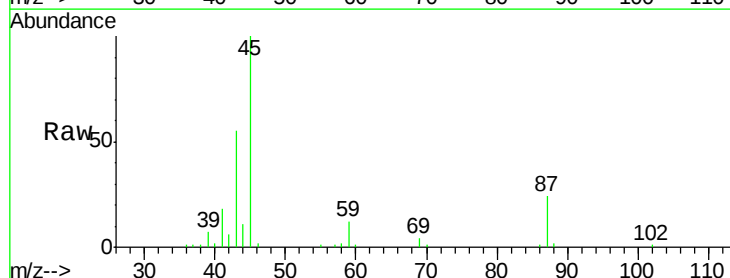
RT: 3.88 min Scan# 540

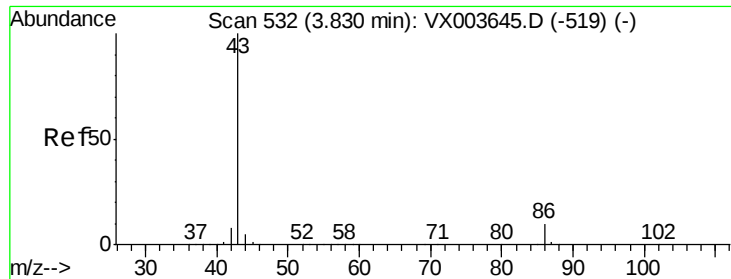
Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Tgt Ion:	45	Resp:	26175
Ion	Ratio	Lower	Upper
45	100		
43	55.2	39.0	58.4
87	24.2	18.4	27.6
59	11.5	7.8	11.8





#23

Vinyl Acetate

Concen: 32.225 ug/l

RT: 3.82 min Scan# 531

Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 43 Resp: 111913

Ion Ratio Lower Upper

43 100

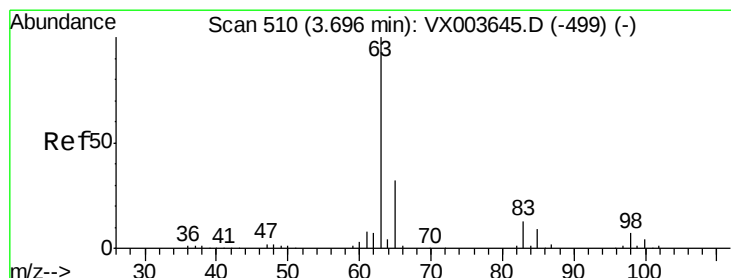
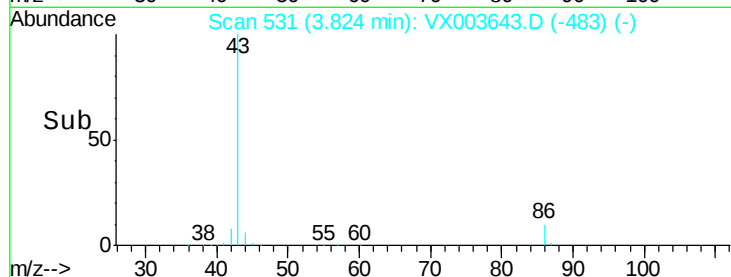
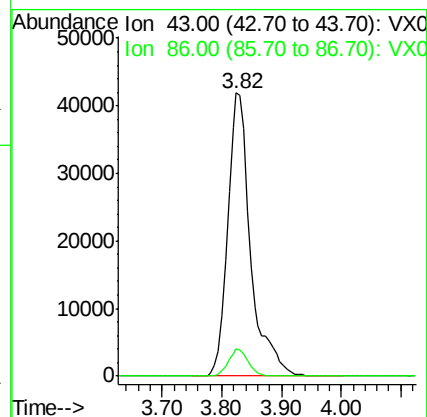
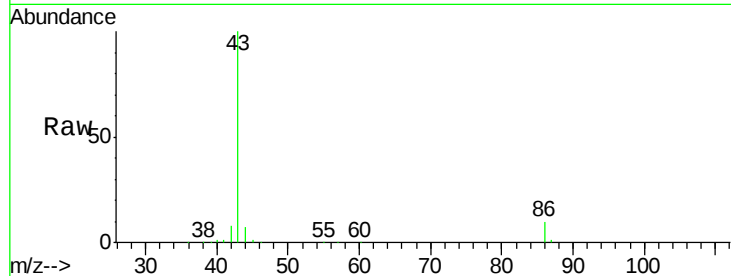
86 9.5 7.7 11.5

Manual Integrations

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#24

1,1-Dichloroethane

Concen: 6.019 ug/l

RT: 3.70 min Scan# 510

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

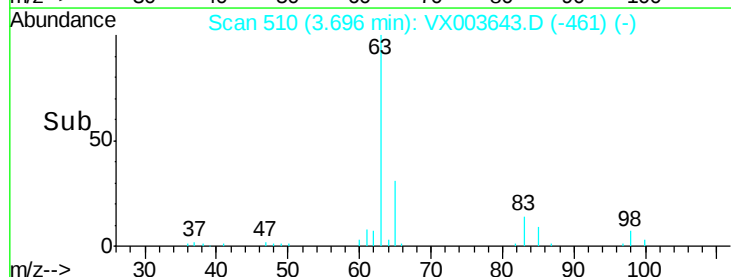
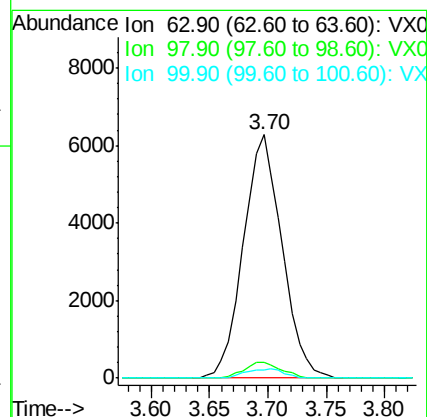
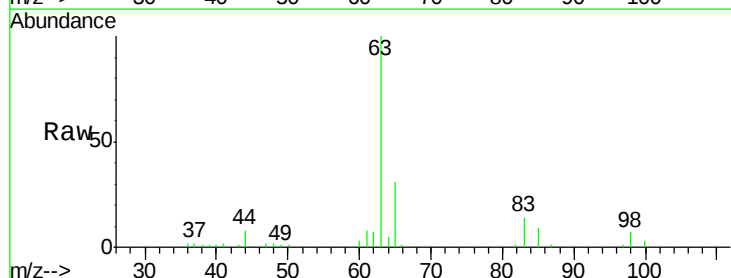
Tgt Ion: 63 Resp: 14524

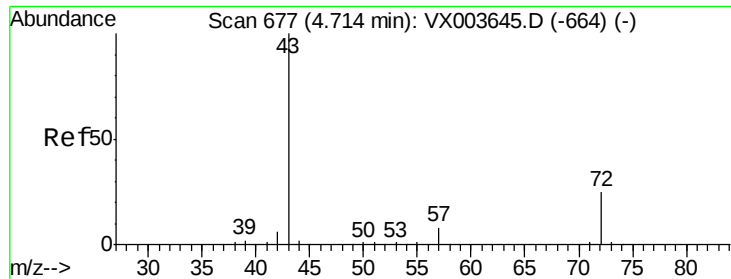
Ion Ratio Lower Upper

63 100

98 6.5 3.3 9.8

100 3.2 2.1 6.3





#25

2-Butanone

Concen: 33.096 ug/l

RT: 4.71 min Scan# 677

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampled :

VSTDIC005

Tot Ion: 43 Resp: 31041

Ion Ratio Lower Upper

43 100

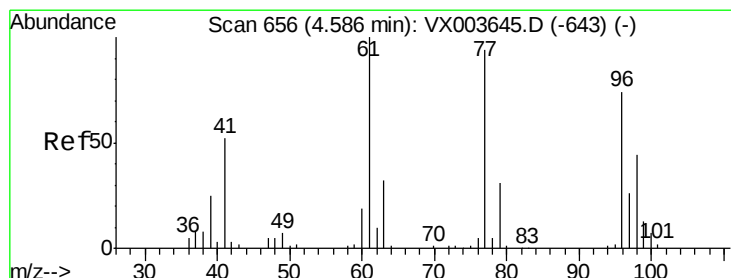
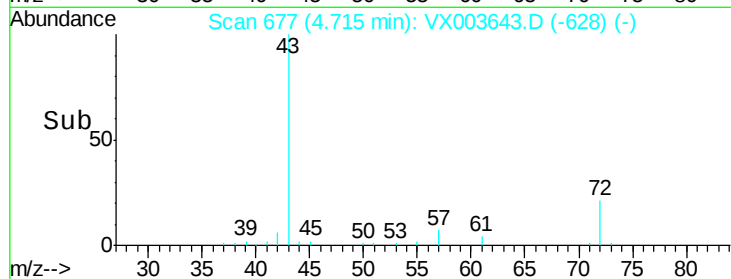
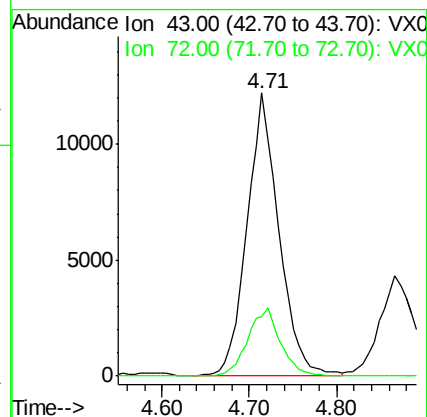
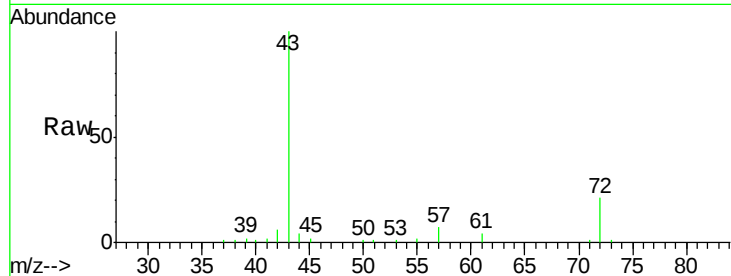
72 21.2 20.2 30.4

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 4.962 ug/l

RT: 4.57 min Scan# 654

Delta R.T. -0.01 min

Lab File: VX003643.D

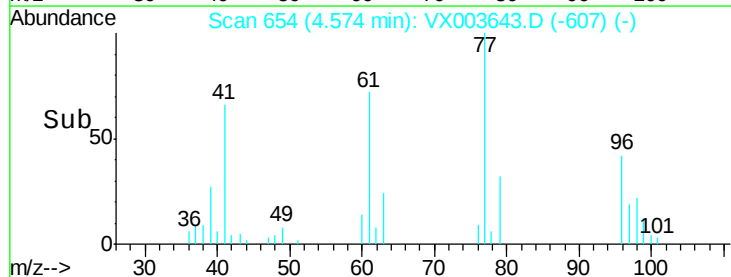
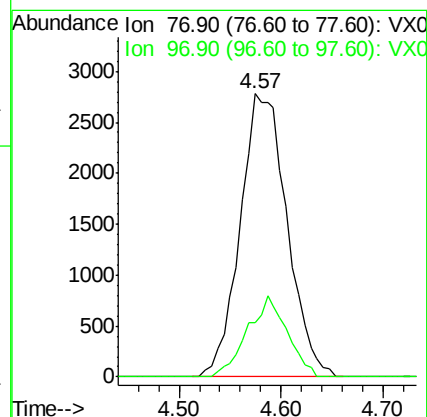
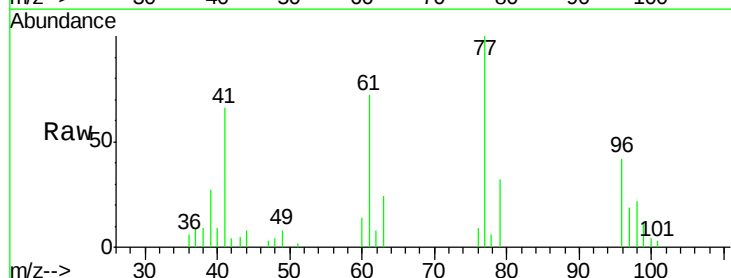
Acq: 24 Jul 2018 16:41

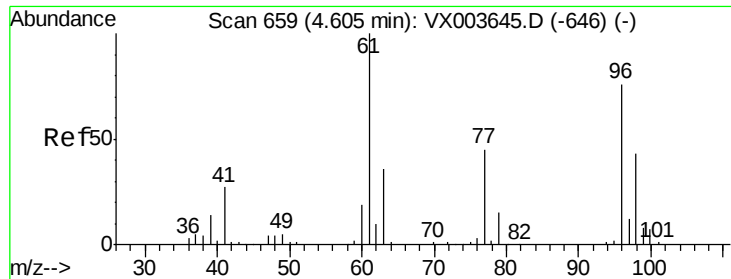
Tgt Ion: 77 Resp: 8849

Ion Ratio Lower Upper

77 100

97 24.3 12.0 36.0





#27

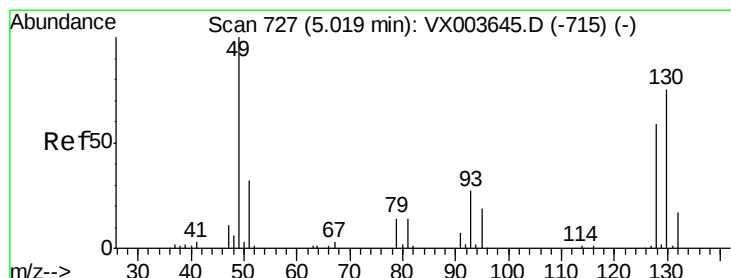
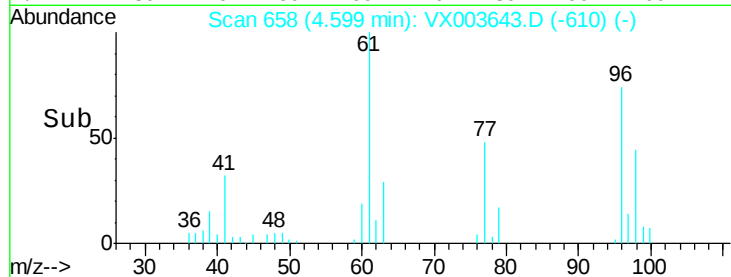
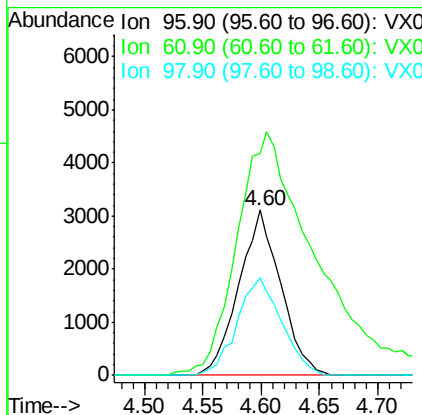
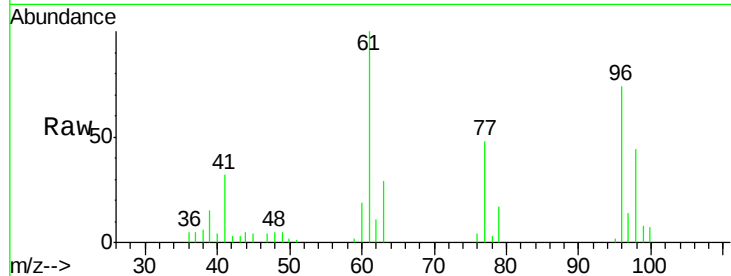
cis-1,2-Dichloroethene
Concen: 5.199 ug/l
RT: 4.60 min Scan# 658
Delta R.T. -0.01 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
96	100		
61	282.0	0.0	313.6
98	62.7	0.0	125.6

Manual Integrations
APPROVED

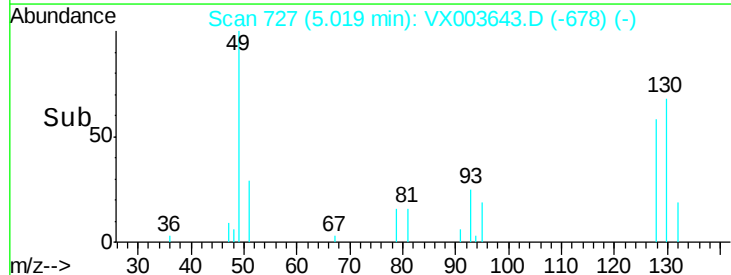
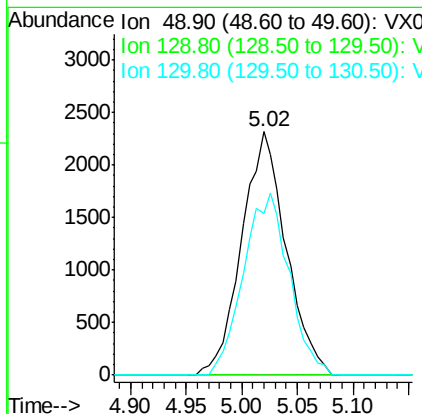
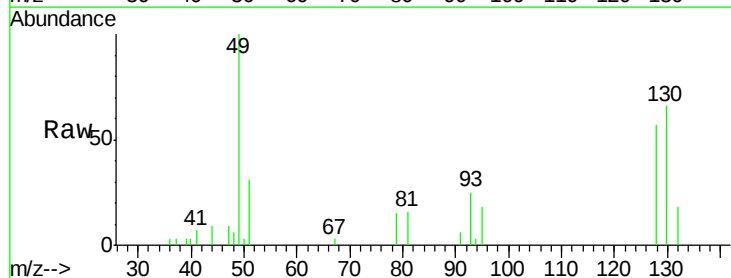
MMDadoda
8/2/2018 11:54:15 AM

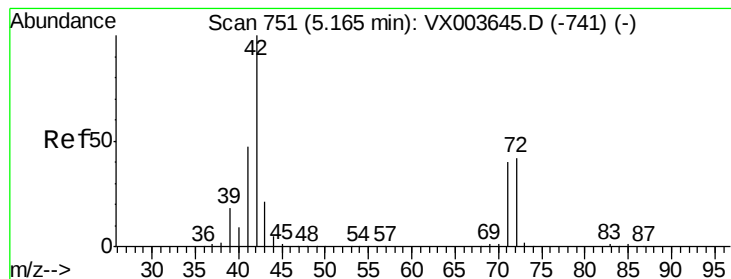


#28

Bromochloromethane
Concen: 6.230 ug/l
RT: 5.02 min Scan# 727
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tgt Ion	Ratio	Lower	Upper
49	100		
129	0.0	0.0	4.2
130	76.6	61.0	91.6





#29

Tetrahydrofuran

Concen: 31.042 ug/l

RT: 5.17 min Scan# 752

Delta R.T. 0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

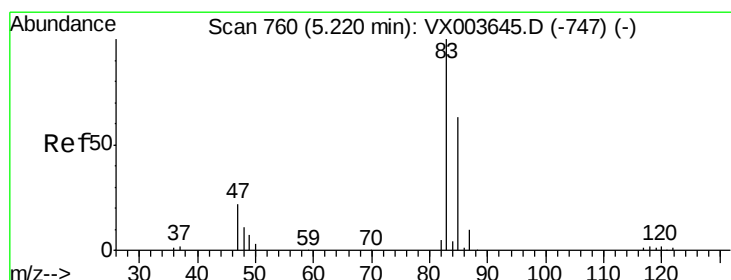
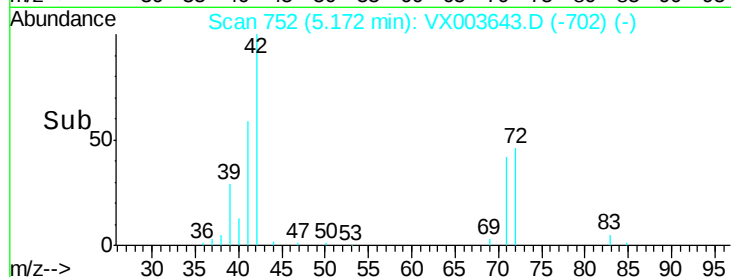
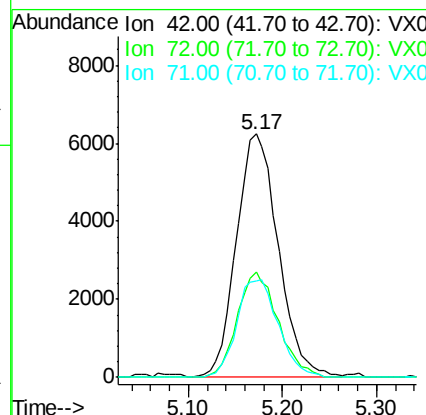
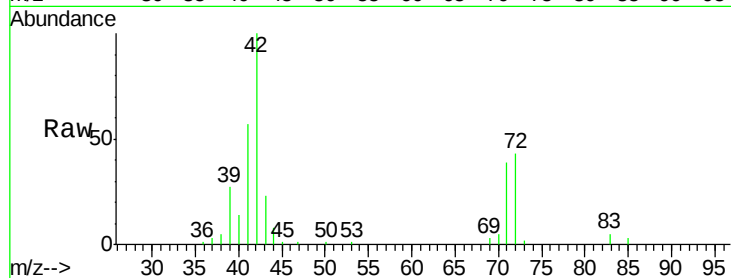
ClientSampleId :

VSTDIC005

Tot Ion:	42	Resp:	19345
Ion	Ratio	Lower	Upper
42	100		
72	41.9	33.4	50.0
71	39.7	31.0	46.6

Manual Integrations
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#30

Chloroform

Concen: 5.654 ug/l

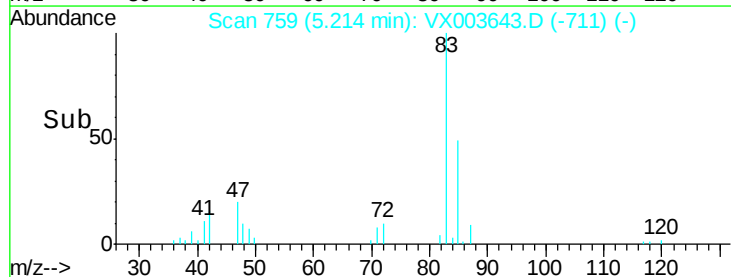
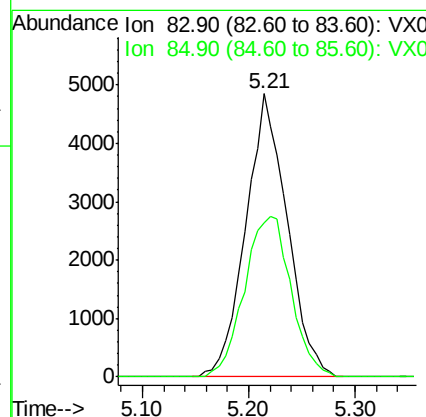
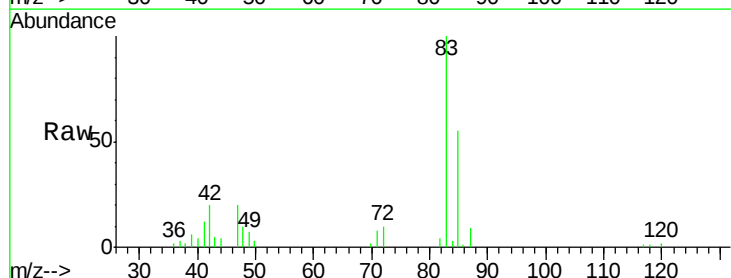
RT: 5.21 min Scan# 759

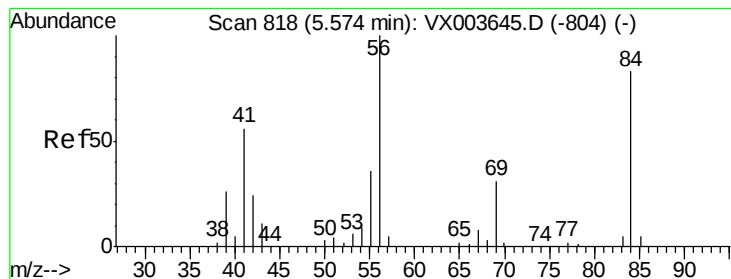
Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Tgt Ion:	83	Resp:	13187
Ion	Ratio	Lower	Upper
83	100		
85	54.6	50.2	75.4





#31

Cyclohexane

Concen: 5.063 ug/l

RT: 5.57 min Scan# 817

Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

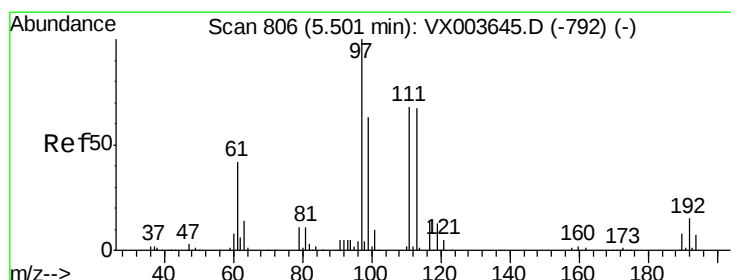
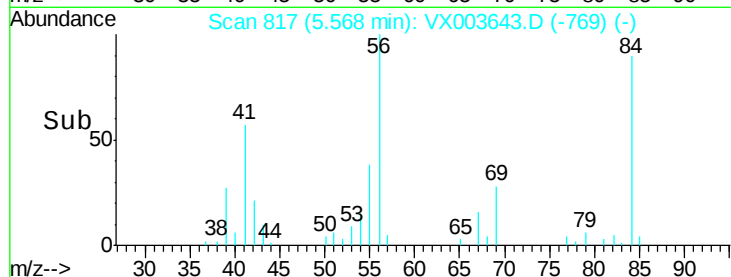
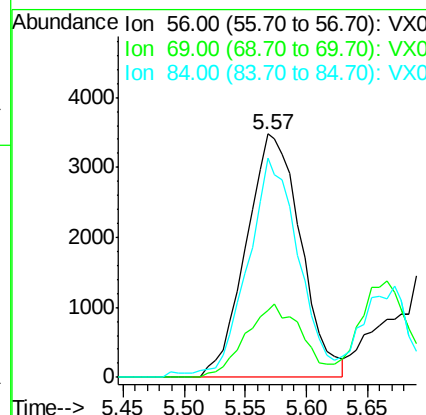
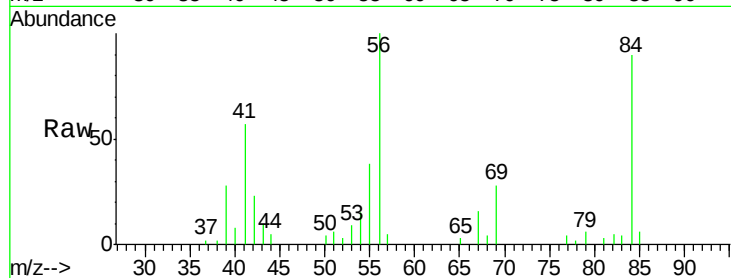
ClientSampleId :

VSTDIC005

Tot Ion:	56	Resp:	10795
Ion Ratio	Lower	Upper	
56	100		
69	27.7	25.0	37.6
84	88.4	66.5	99.7

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 5.263 ug/l

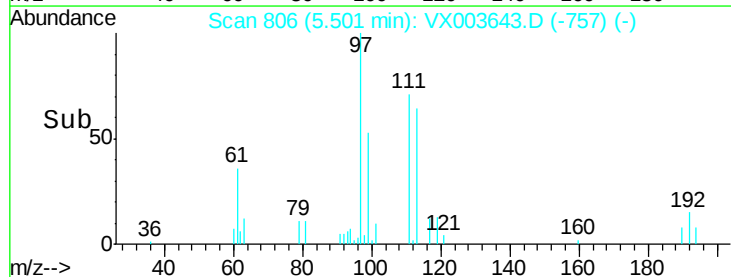
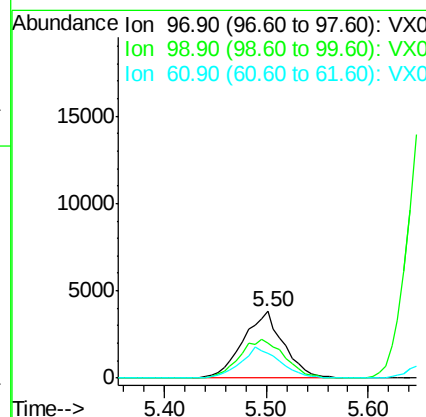
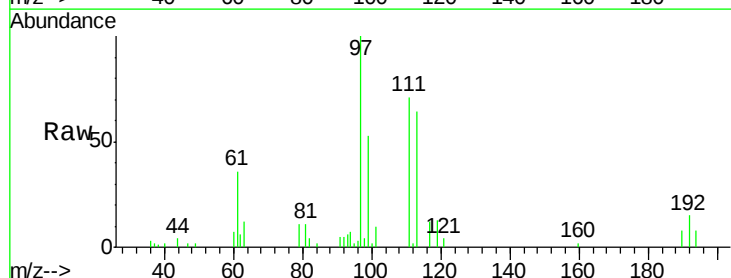
RT: 5.50 min Scan# 806

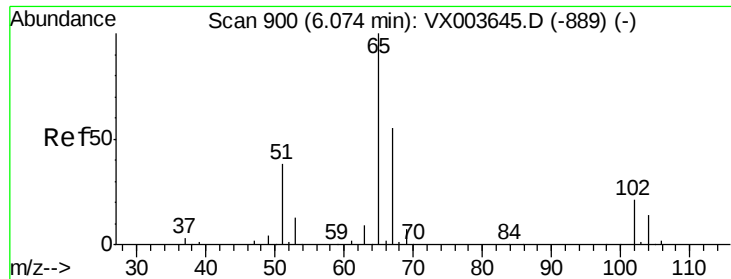
Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Tgt Ion:	97	Resp:	10510
Ion Ratio	Lower	Upper	
97	100		
99	64.6	50.4	75.6
61	44.7	34.5	51.7





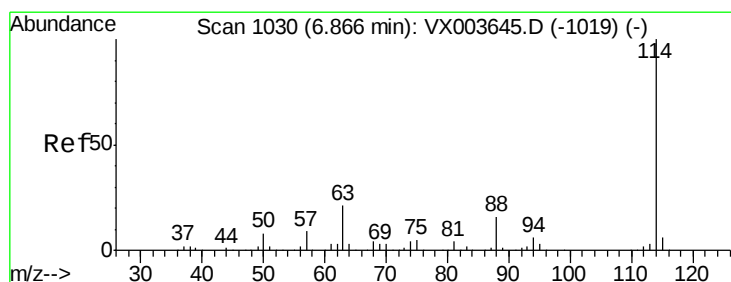
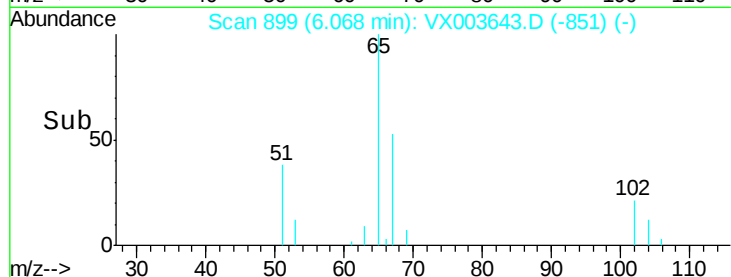
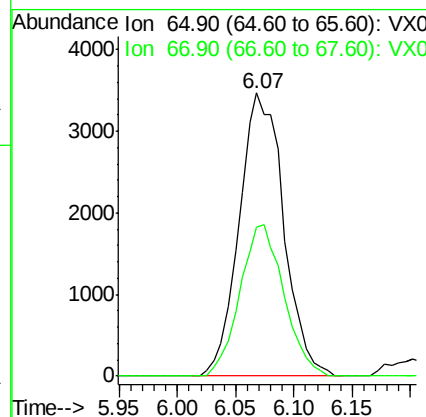
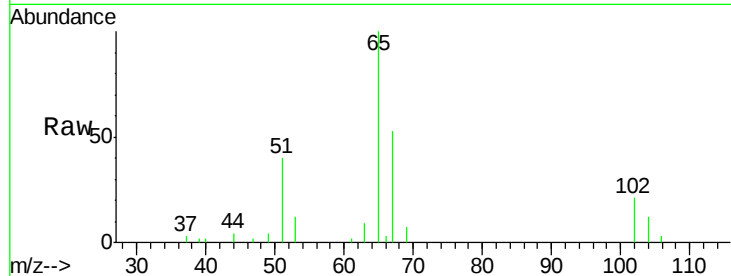
#33
 1,2-Dichloroethane-d4
 Concen: 6.337 ug/l
 RT: 6.07 min Scan# 899
 Delta R.T. -0.01 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
65	100		
67	52.9	0.0	107.8

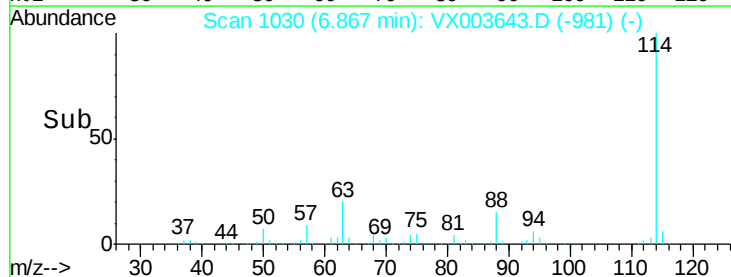
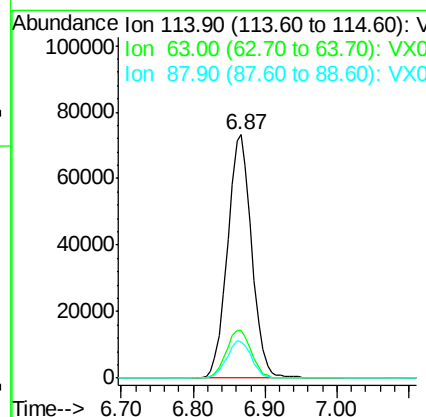
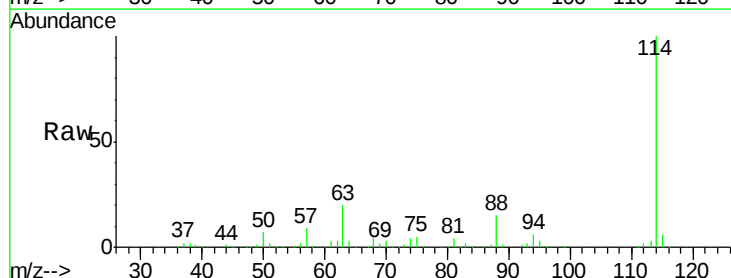
Manual Integrations
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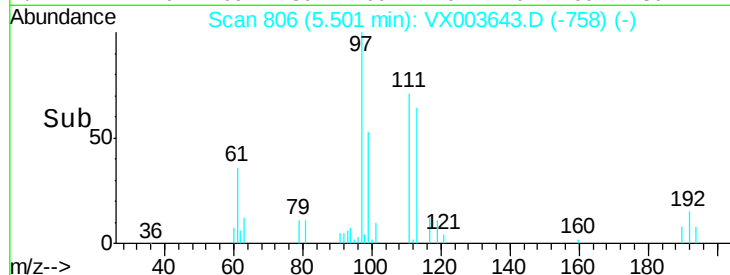
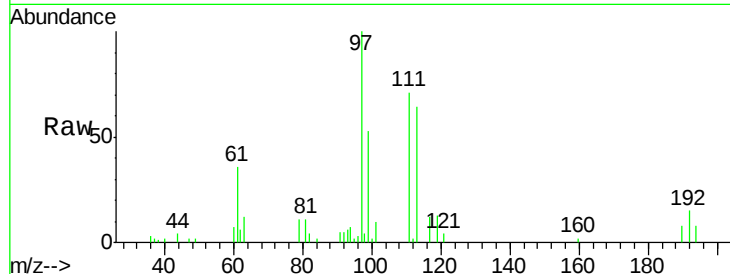
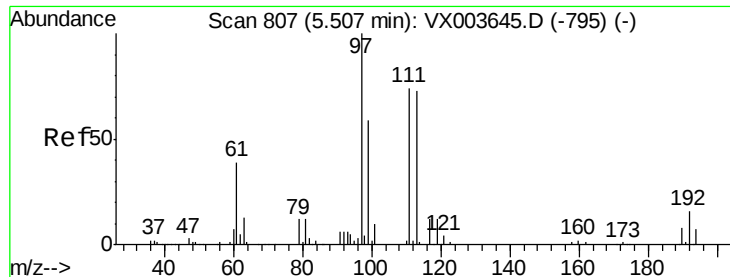
MMDadoda
 8/2/2018 11:54:15 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 6.87 min Scan# 1030
 Delta R.T. 0.00 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.6	0.0	41.0
88	14.8	0.0	31.8





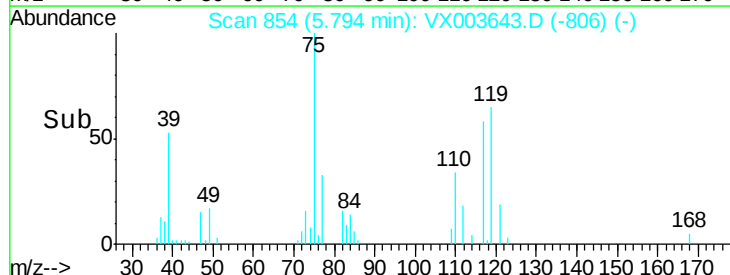
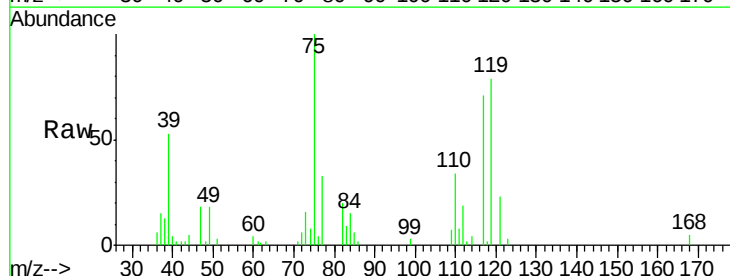
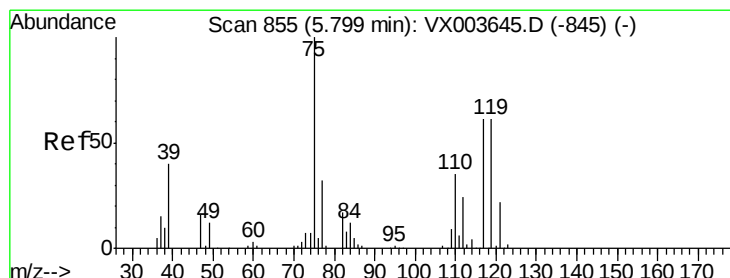
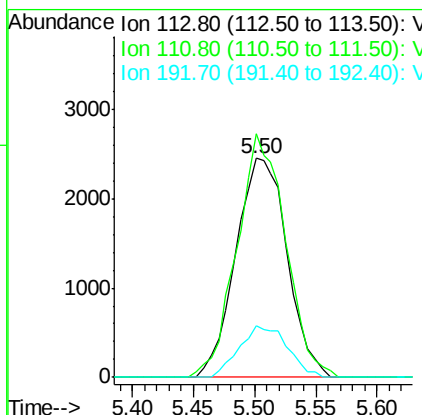
#35
Dibromofluoromethane
Concen: 5.374 ug/l
RT: 5.50 min Scan# 806
Delta R.T. -0.01 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tot Ion	Ratio	Lower	Upper
113	100		
111	105.2	81.2	121.8
192	22.0	18.2	27.4

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

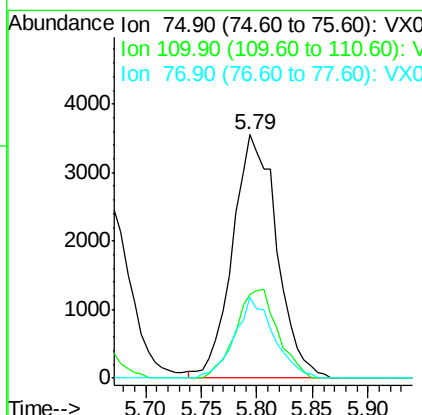
Manual Integrations
APPROVED

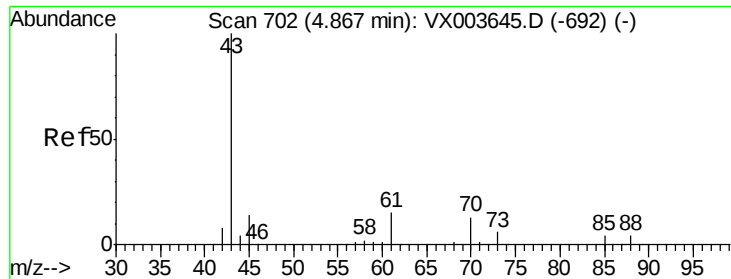
MMDadoda
8/2/2018 11:54:15 AM



#36
1,1-Dichloropropene
Concen: 5.246 ug/l
RT: 5.79 min Scan# 854
Delta R.T. -0.01 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tgt Ion	Ratio	Lower	Upper
75	100		
110	34.5	18.1	54.1
77	29.4	25.1	37.7





#37

Ethyl Acetate

Concen: 6.570 ug/l

RT: 4.87 min Scan# 702

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

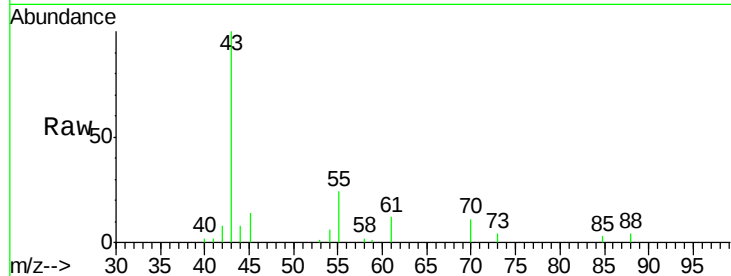
ClientSampleId :

VSTDIC005

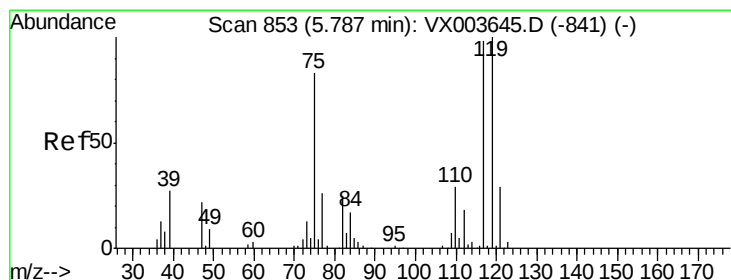
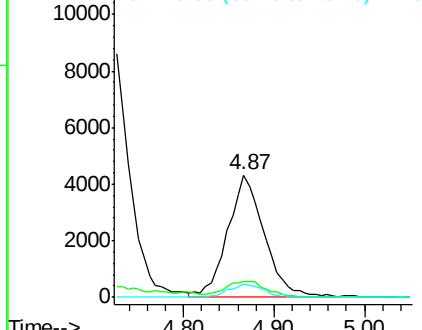
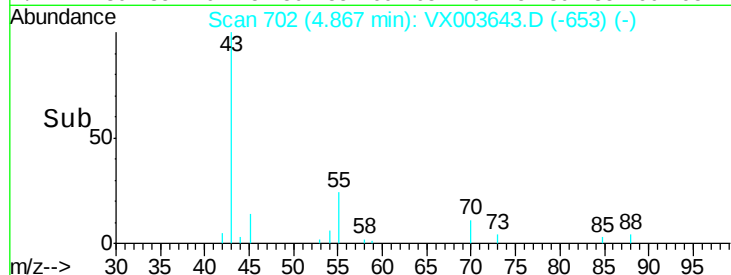
Tot Ion:	43	Resp:	12163
Ion	Ratio	Lower	Upper
43	100		
61	15.0	11.9	17.9
70	10.0	8.6	12.8

Manual Integrations
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8/2/2018 11:54:15 AM



Abundance Ion 43.00 (42.70 to 43.70): VX003643.D (-653) (-)



#38

Carbon Tetrachloride

Concen: 4.975 ug/l

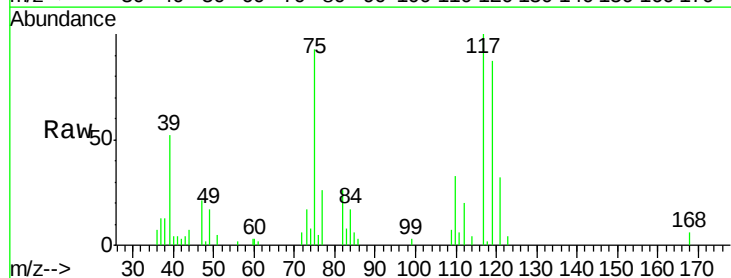
RT: 5.79 min Scan# 853

Delta R.T. 0.00 min

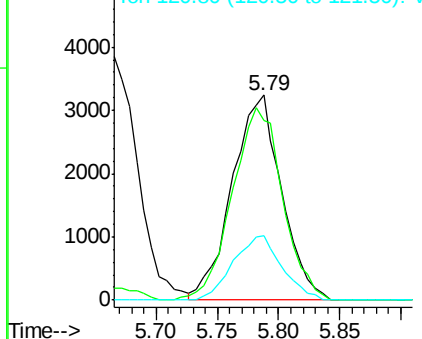
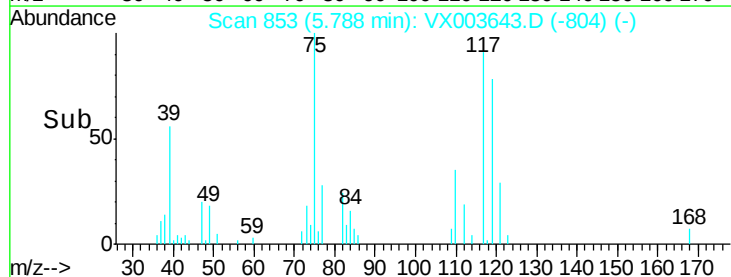
Lab File: VX003643.D

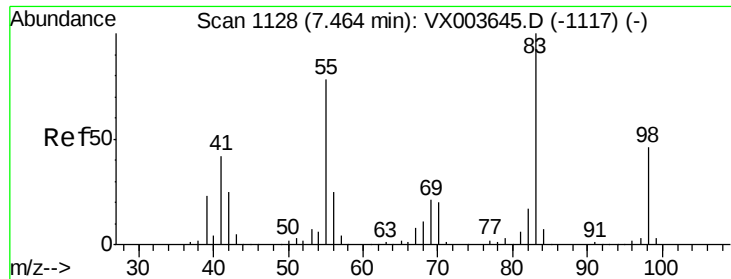
Acq: 24 Jul 2018 16:41

Tgt Ion:	117	Resp:	9084
Ion	Ratio	Lower	Upper
117	100		
119	87.5	81.0	121.4
121	31.7	23.7	35.5



Abundance Ion 116.80 (116.50 to 117.50): VX003643.D (-804) (-)





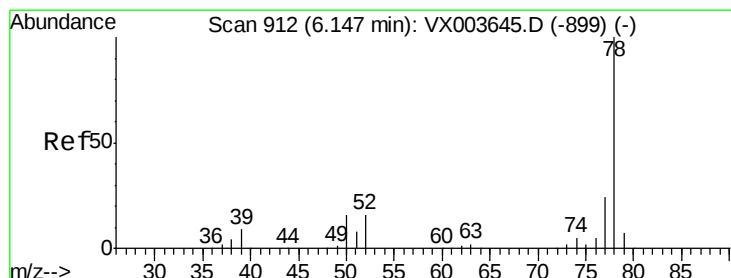
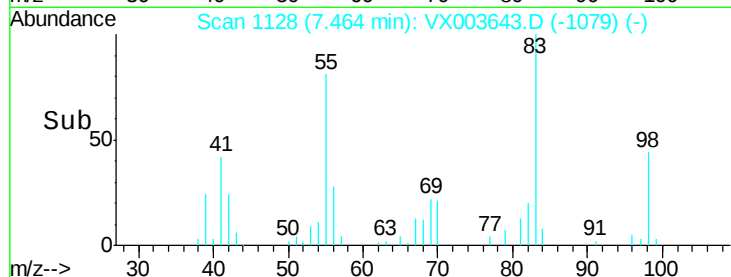
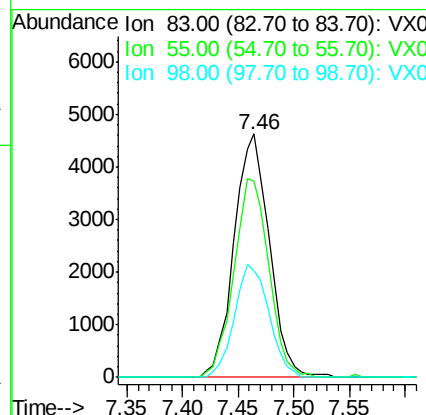
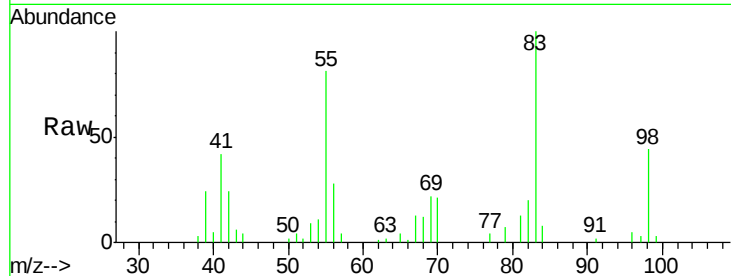
#39
Methvlcvclohexane
Concen: 4.583 ug/l
RT: 7.46 min Scan# 1128
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.6	62.6	93.8
98	44.0	36.6	55.0

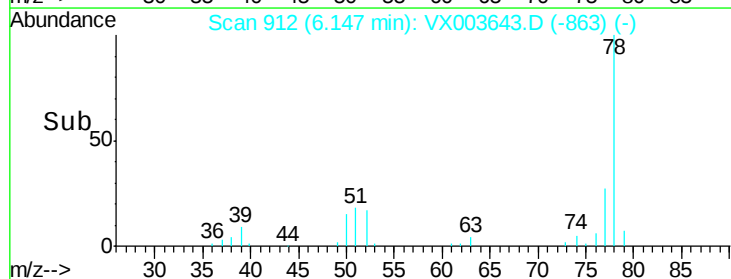
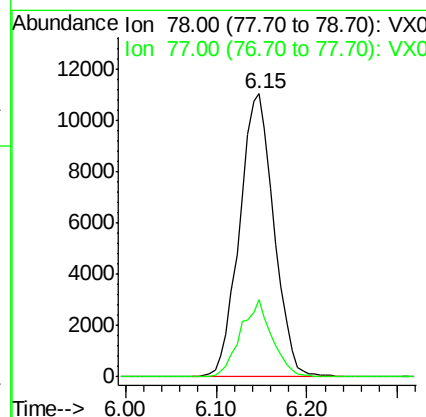
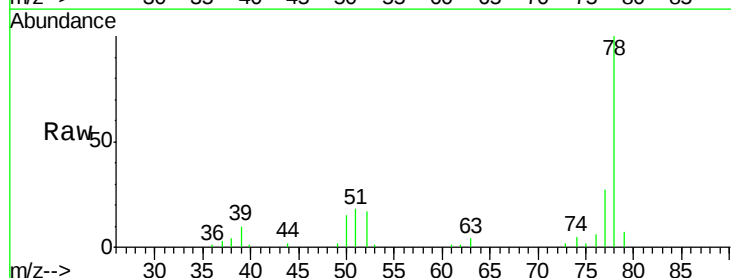
Manual Integrations
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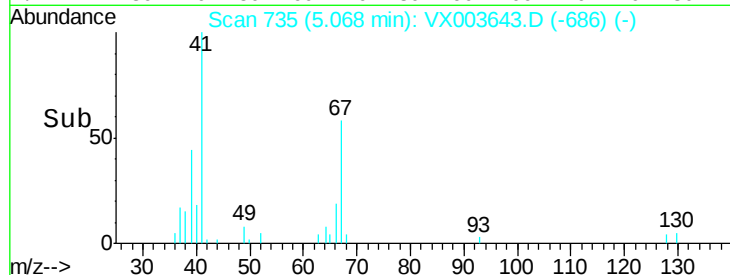
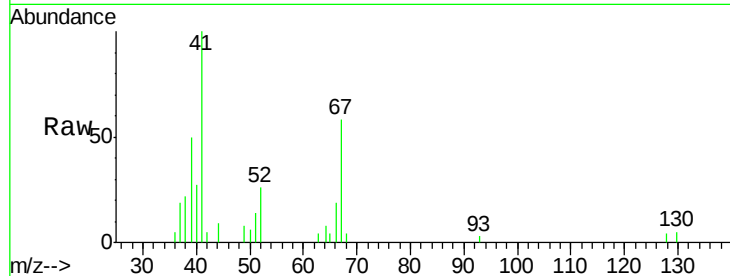
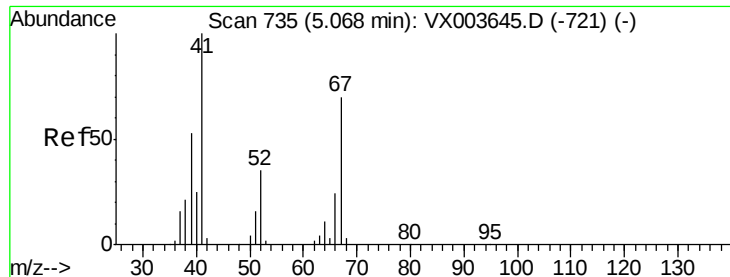
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#40
Benzene
Concen: 5.117 ug/l
RT: 6.15 min Scan# 912
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

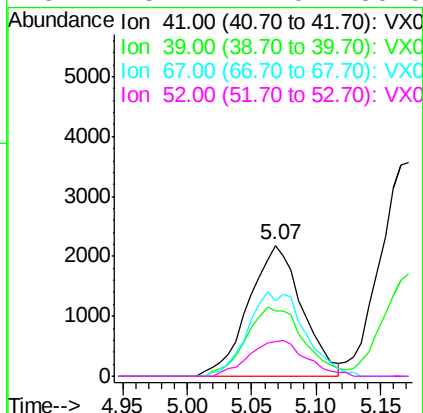
Tgt Ion	Ratio	Lower	Upper
78	100		
77	27.2	19.0	28.6





#41
Methacrylonitrile
Concen: 5.814 ug/l
RT: 5.07 min Scan# 735
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

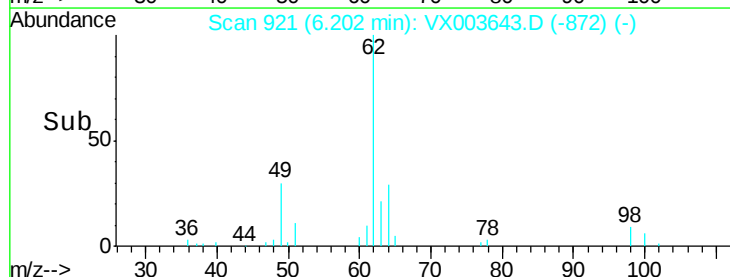
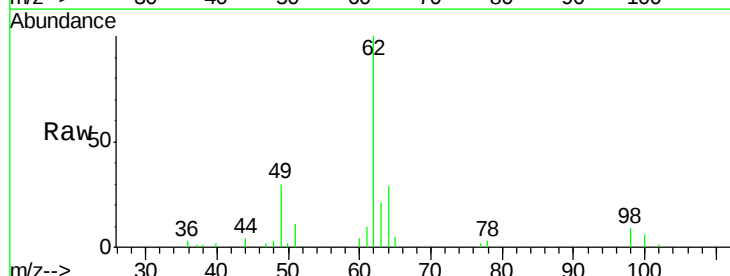
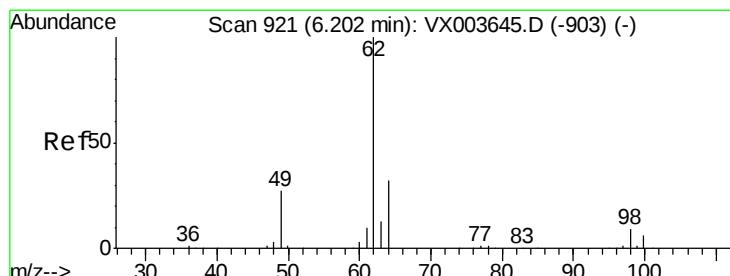
Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.0	42.2	63.4	
67	68.3	56.6	84.8	
52	28.7	24.0	36.0	



Instrument :
MSVOA_X
ClientSampled :
VSTDIC005

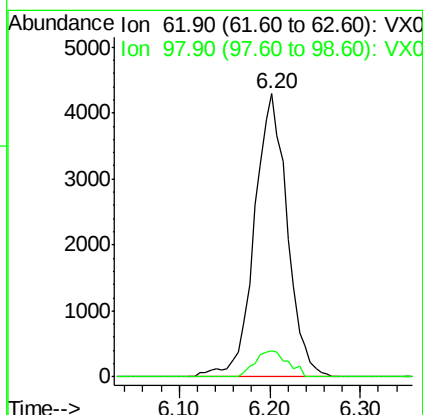
Manual Integrations
APPROVED

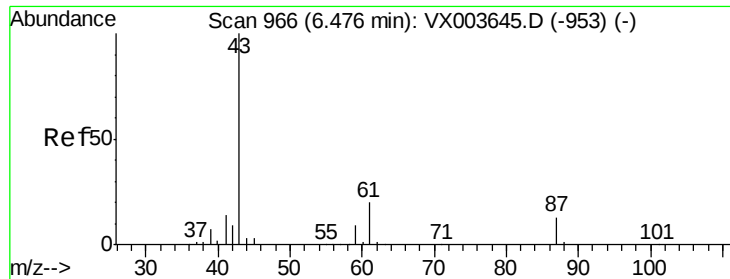
MMDadoda
8/2/2018 11:54:15 AM



#42
1,2-Dichloroethane
Concen: 5.899 ug/l
RT: 6.20 min Scan# 921
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.1	0.0	18.4	





#43

Isopropyl Acetate

Concen: 5.778 ug/l

RT: 6.47 min Scan# 965

Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

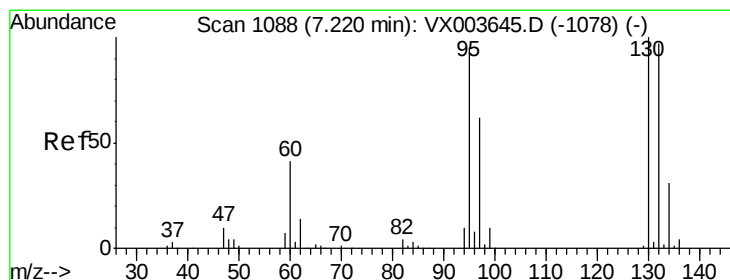
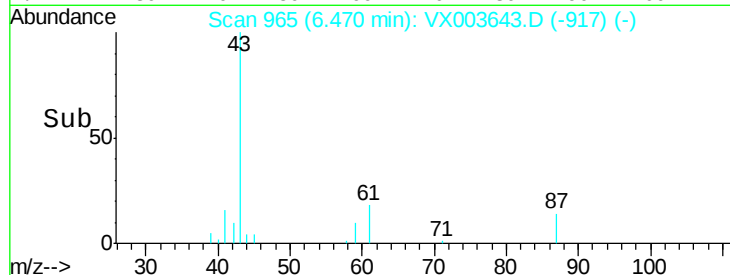
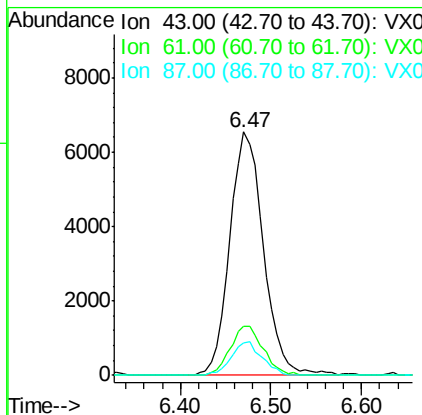
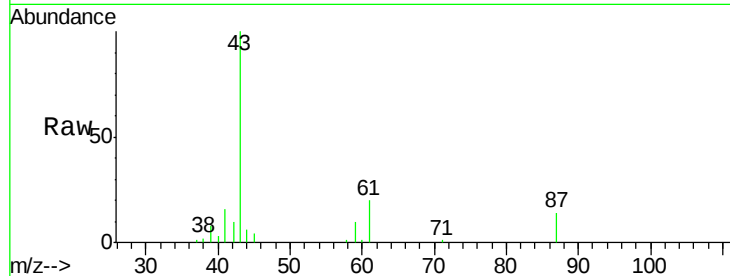
ClientSampled :

VSTDIC005

Tot Ion:	43	Resp:	16906
Ion	Ratio	Lower	Upper
43	100		
61	19.7	15.9	23.9
87	12.3	10.1	15.1

Manual Integrations
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#44

Trichloroethene

Concen: 4.847 ug/l

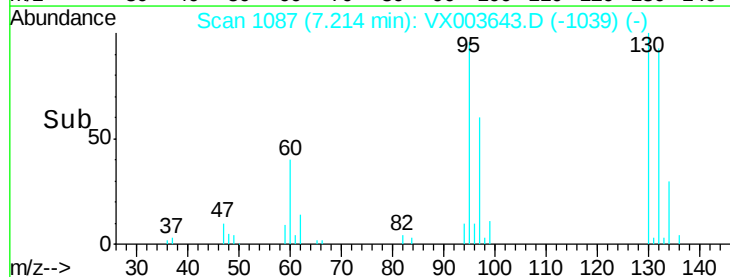
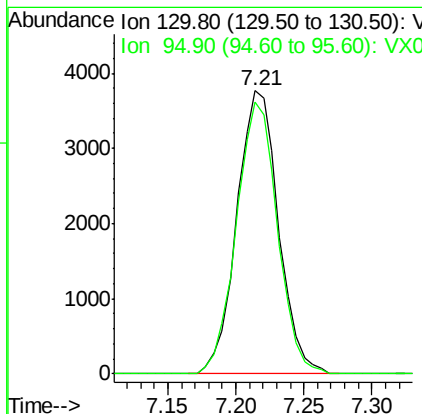
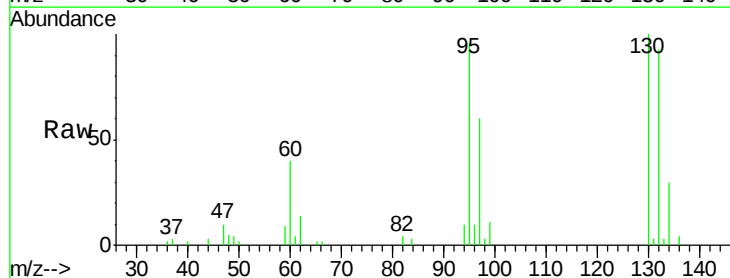
RT: 7.21 min Scan# 1087

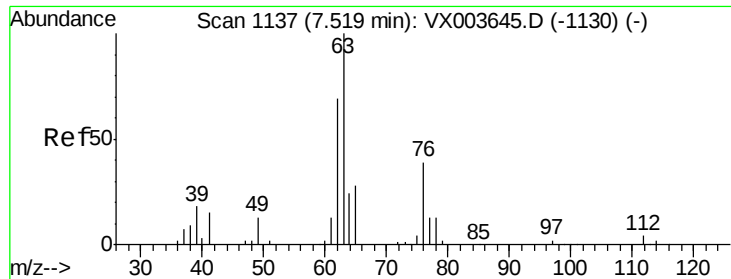
Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Tgt Ion:	130	Resp:	8038
Ion	Ratio	Lower	Upper
130	100		
95	95.9	0.0	190.0





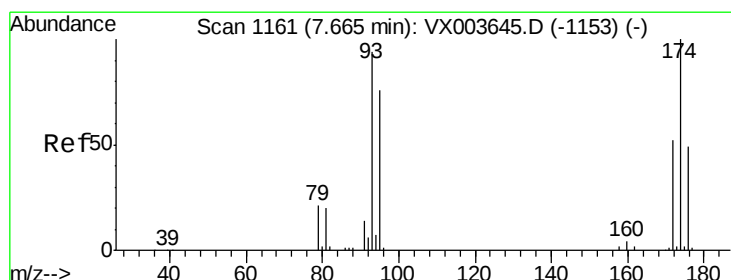
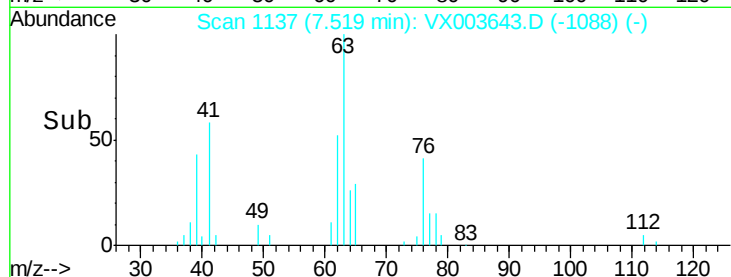
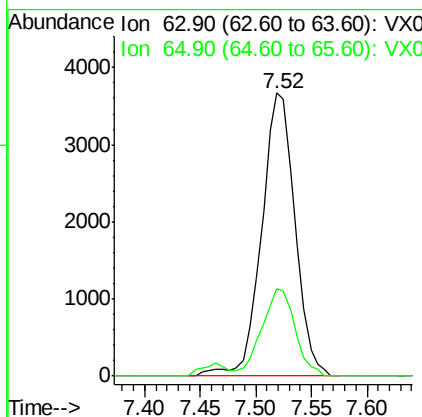
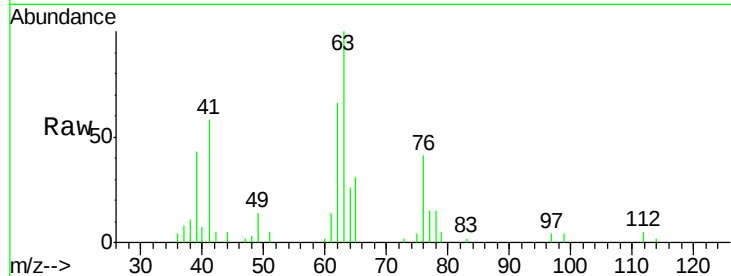
#45
 1,2-Dichloropropane
 Concen: 5.308 ug/l
 RT: 7.52 min Scan# 1137
 Delta R.T. 0.00 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion: 63 Resp: 7675
 Ion Ratio Lower Upper
 63 100
 65 30.7 24.0 36.0

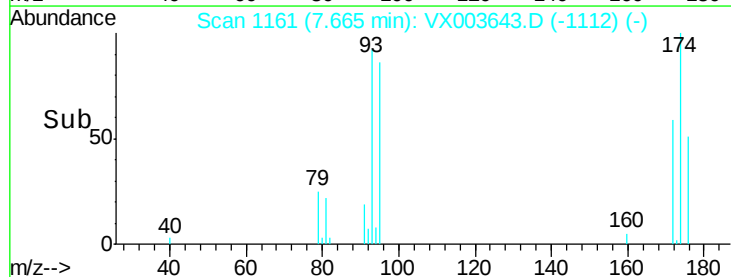
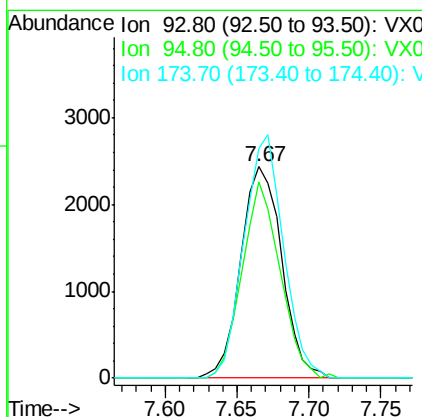
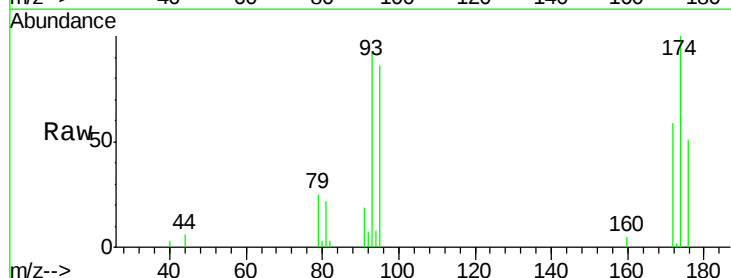
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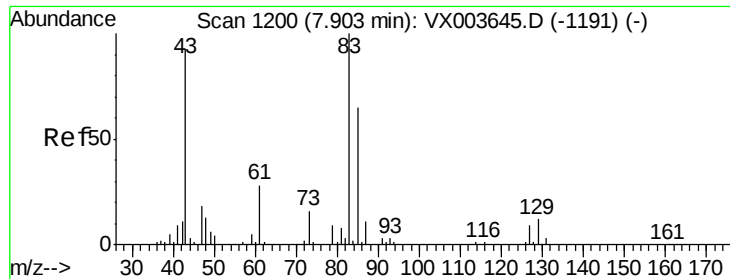
MMDadoda
 8/2/2018 11:54:15 AM



#46
 Dibromomethane
 Concen: 5.178 ug/l
 RT: 7.67 min Scan# 1161
 Delta R.T. 0.00 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Tgt Ion: 93 Resp: 4803
 Ion Ratio Lower Upper
 93 100
 95 86.2 67.0 100.6
 174 110.9 89.6 134.4





#47

Bromodichloromethane

Concen: 5.145 ug/l

RT: 7.90 min Scan# 1200

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

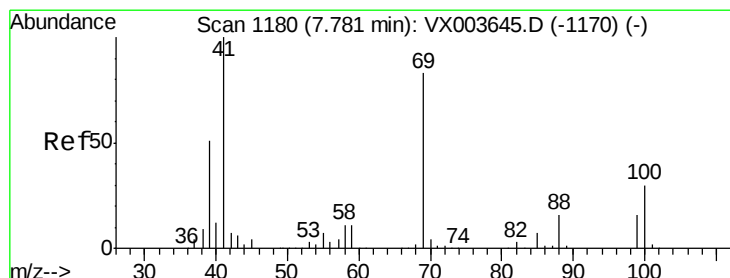
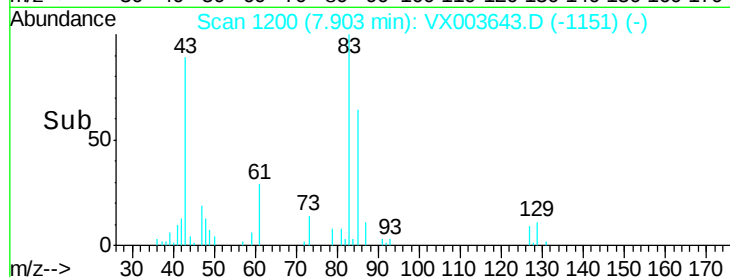
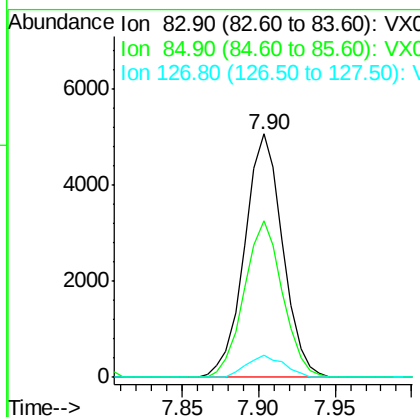
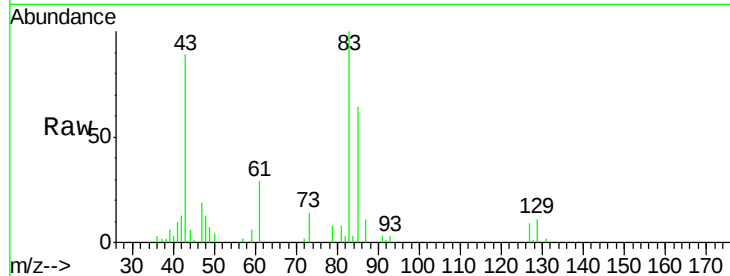
ClientSampleId :

VSTDIC005

Tot Ion:	83	Resp:	8771
Ion	Ratio	Lower	Upper
83	100		
85	64.1	51.8	77.6
127	9.1	7.0	10.6

Manual Integrations
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#48

Methyl methacrylate

Concen: 5.548 ug/l

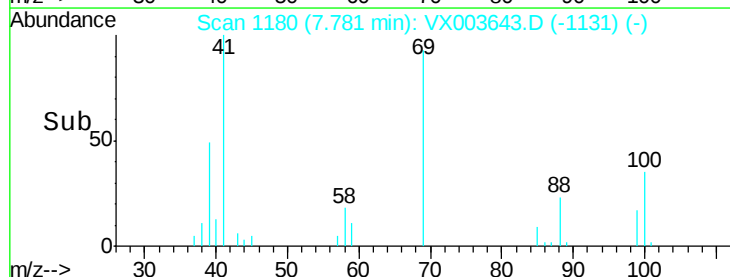
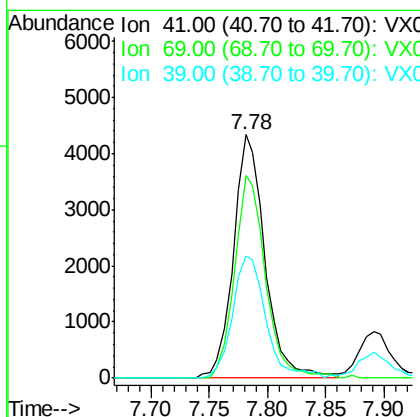
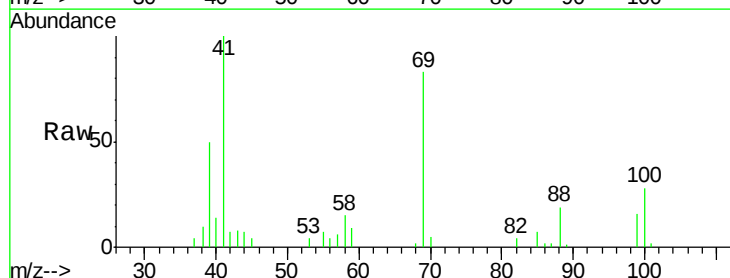
RT: 7.78 min Scan# 1180

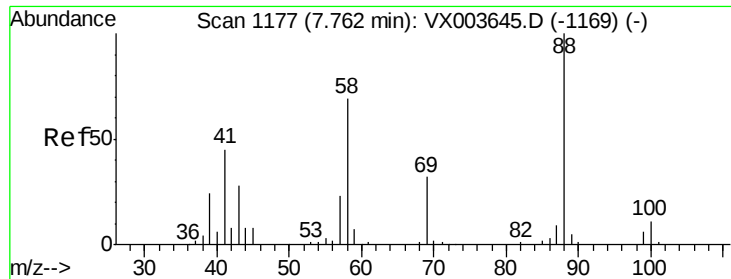
Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Tgt Ion:	41	Resp:	8198
Ion	Ratio	Lower	Upper
41	100		
69	81.3	66.9	100.3
39	52.7	41.2	61.8





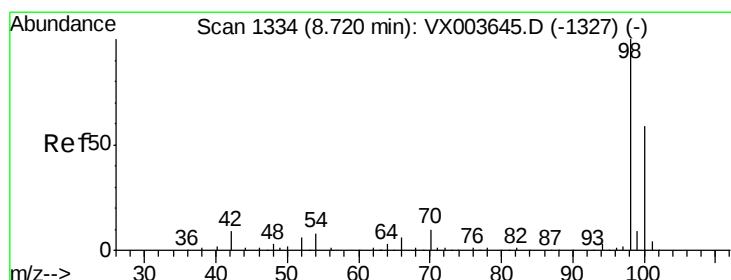
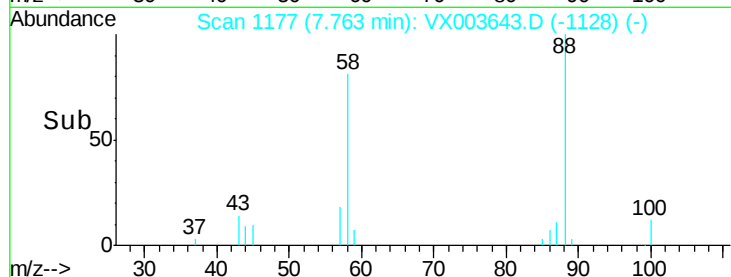
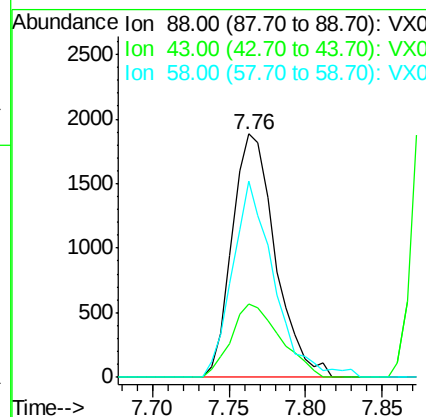
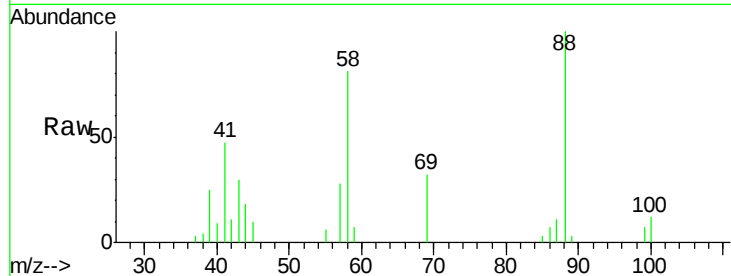
#49
1,4-Dioxane
Concen: 110.532 ug/l
RT: 7.76 min Scan# 1177
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
88	100		
43	34.3	25.8	38.6
58	78.0	58.3	87.5

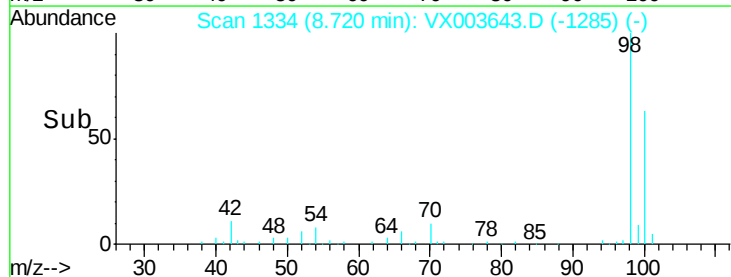
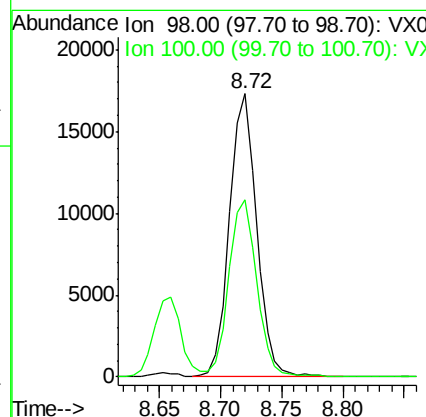
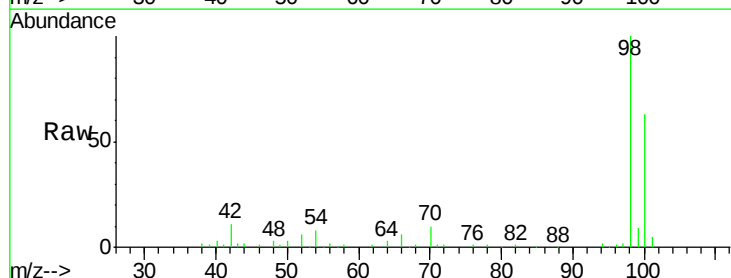
Manual Integrations
APPROVED

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#50
Toluene-d8
Concen: 5.336 ug/l
RT: 8.72 min Scan# 1334
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.4	50.9	76.3





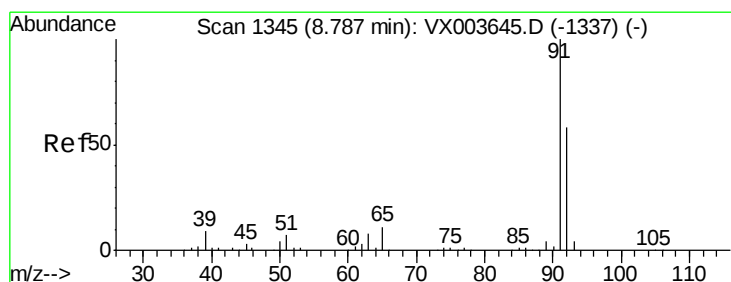
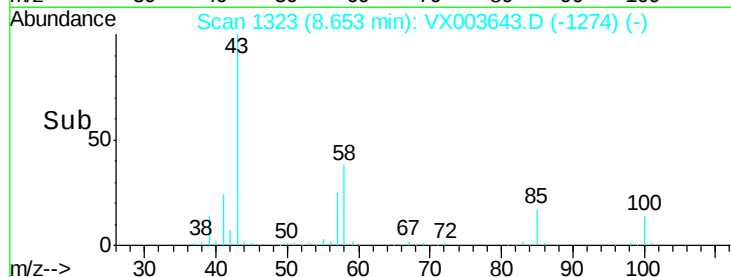
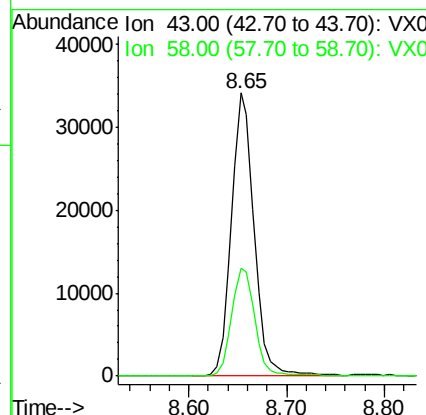
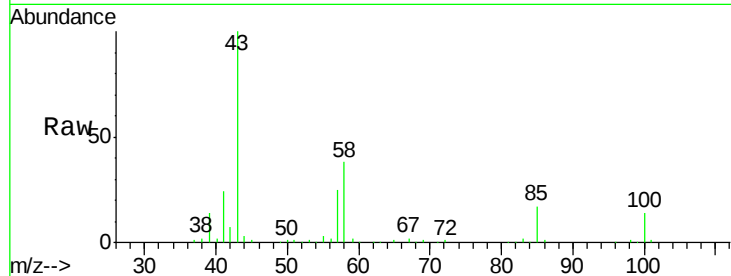
#51
4-Methyl-2-Pentanone
Concen: 29.547 ug/l
RT: 8.65 min Scan# 1323
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
43	100		
58	38.7	31.5	47.3

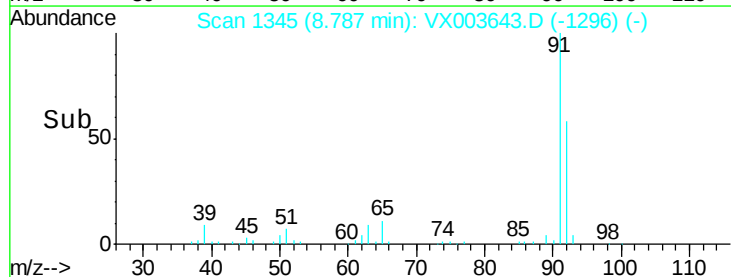
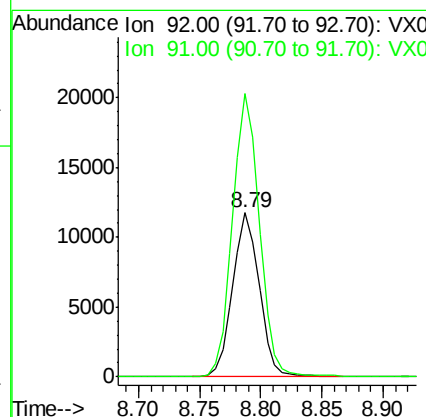
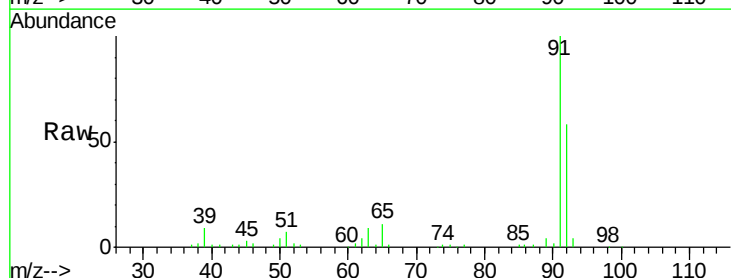
Manual Integrations
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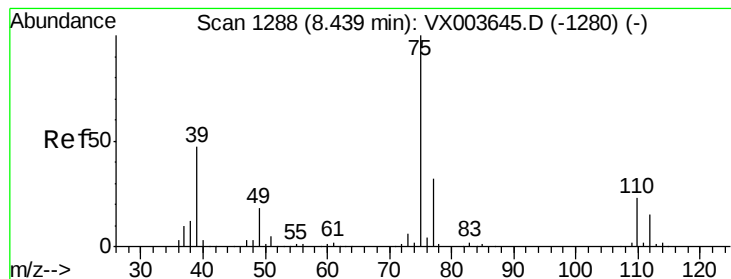
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#52
Toluene
Concen: 4.994 ug/l
RT: 8.79 min Scan# 1345
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tgt Ion	Ratio	Lower	Upper
92	100		
91	174.3	139.0	208.6





#53

t-1,3-Dichloropropene

Concen: 4.795 ug/l

RT: 8.44 min Scan# 1288

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Tot Ion: 75 Resp: 10031

Ion Ratio Lower Upper

75 100

77 32.0 25.2 37.8

Instrument :

MSVOA_X

ClientSampleId :

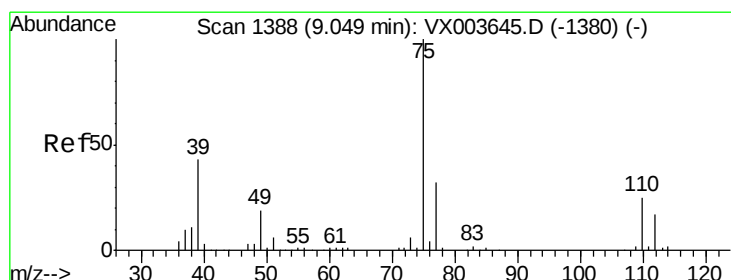
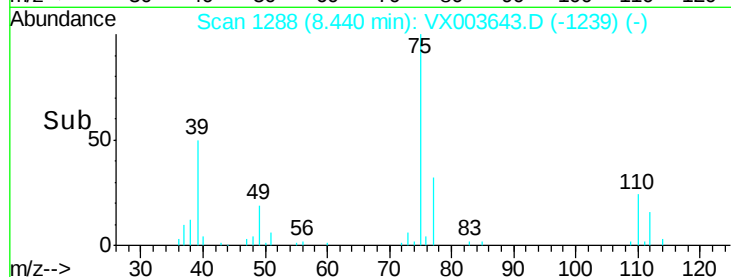
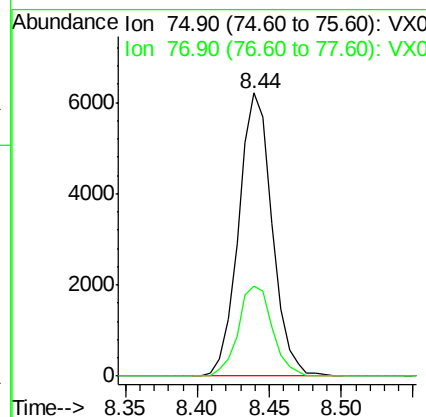
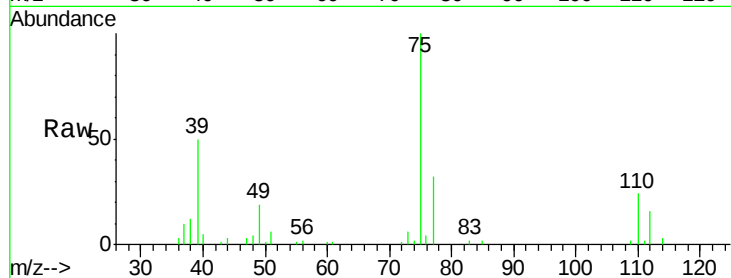
VSTDIC005

Manual Integrations

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#54

cis-1,3-Dichloropropene

Concen: 4.671 ug/l

RT: 9.05 min Scan# 1388

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

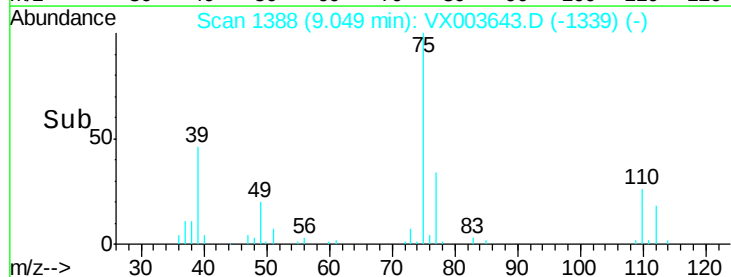
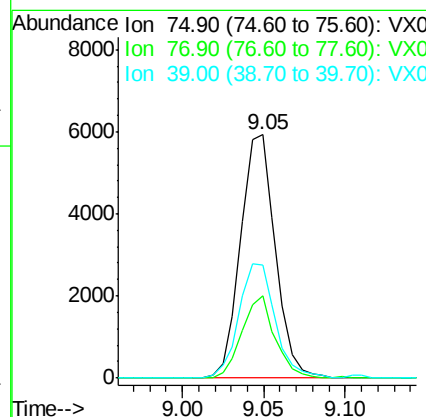
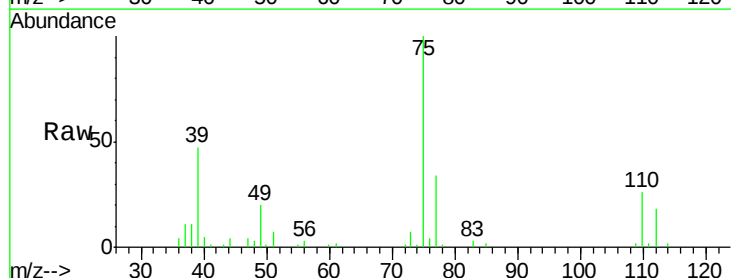
Tgt Ion: 75 Resp: 8811

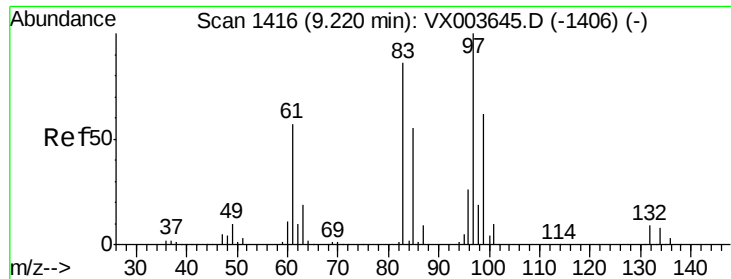
Ion Ratio Lower Upper

75 100

77 33.8 25.8 38.6

39 46.7 34.2 51.4





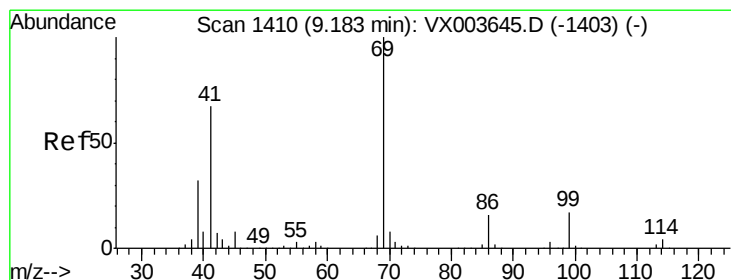
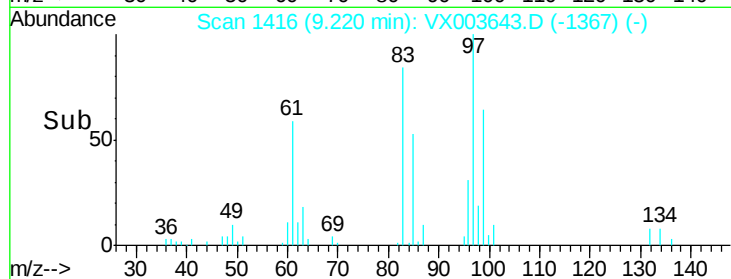
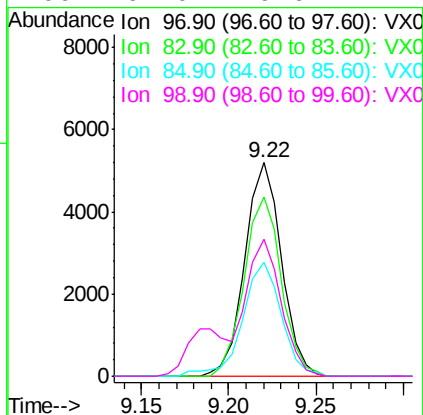
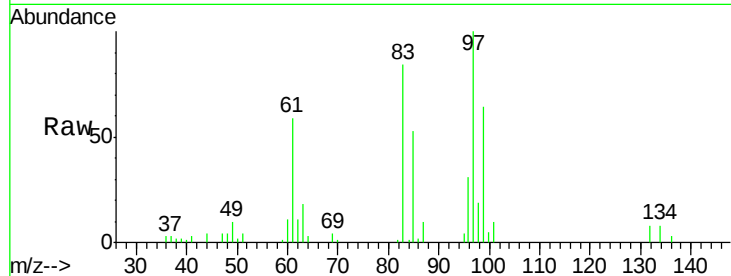
#55
1,1,2-Trichloroethane
Concen: 5.317 ug/l
RT: 9.22 min Scan# 1416
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion:	97	Resp:	7563
Ion	Ratio	Lower	Upper
97	100		
83	83.8	68.7	103.1
85	53.2	43.7	65.5
99	64.0	49.6	74.4

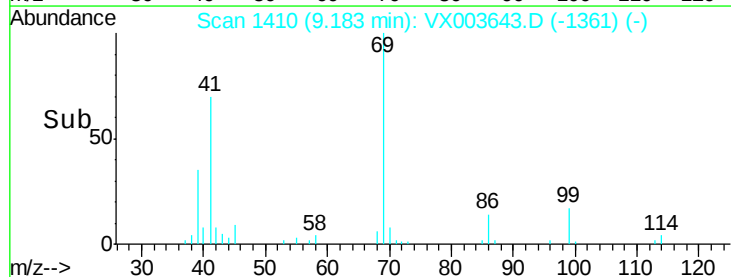
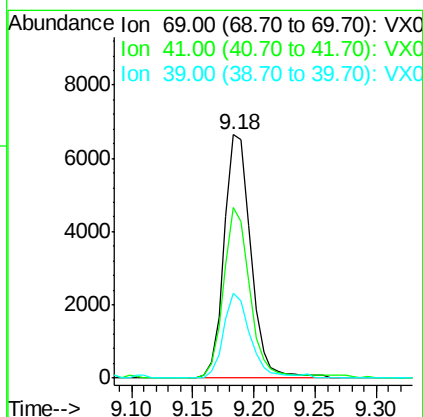
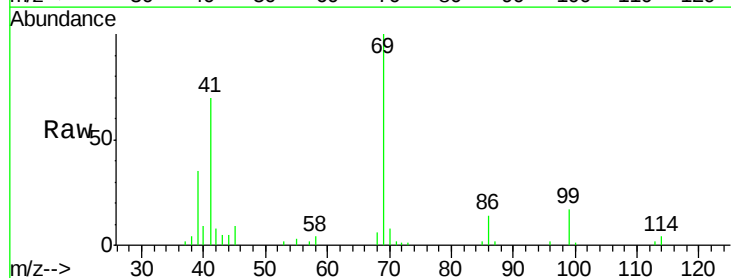
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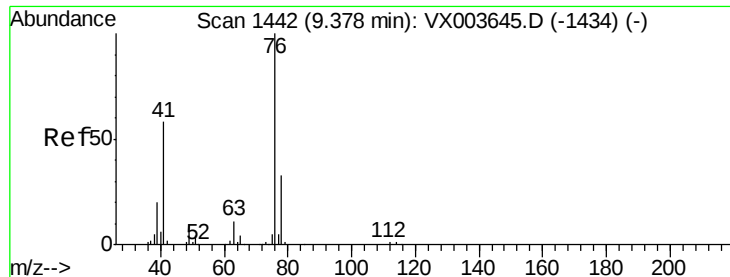
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#56
Ethyl methacrylate
Concen: 4.963 ug/l
RT: 9.18 min Scan# 1410
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tgt Ion:	69	Resp:	10053
Ion	Ratio	Lower	Upper
69	100		
41	68.7	53.8	80.6
39	35.4	25.8	38.8





#57

1,3-Dichloropropane

Concen: 5.375 ug/l

RT: 9.37 min Scan# 1441

Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 76 Resp: 12425

Ion Ratio Lower Upper

76 100

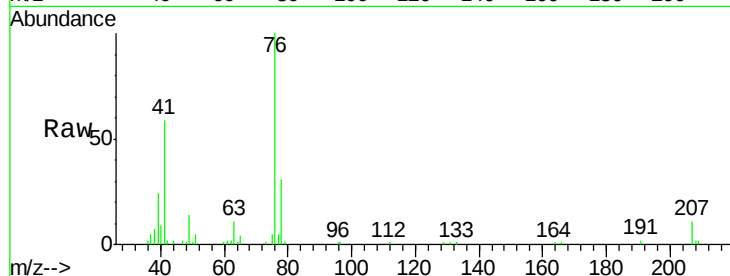
78 31.9 25.6 38.4

Manual Integrations

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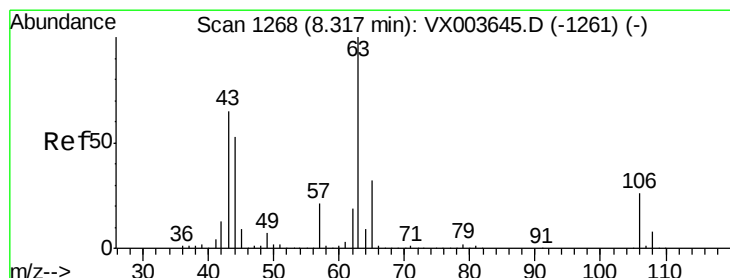
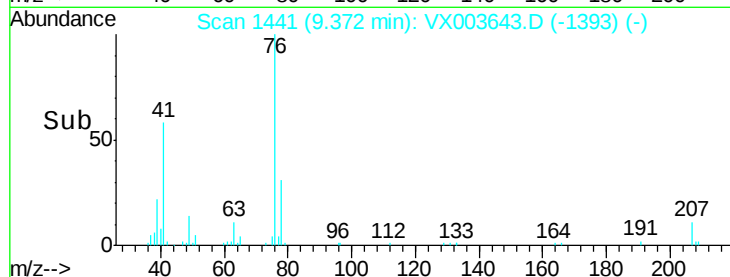
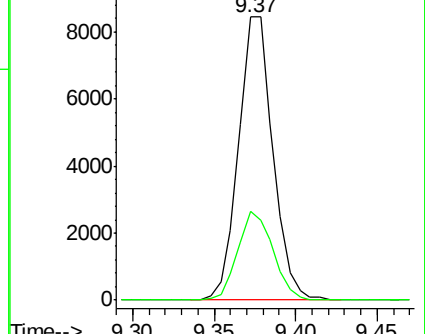
MMDadoda

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Abundance Ion 75.90 (75.60 to 76.60): VX0

Ion 77.90 (77.60 to 78.60): VX0



#58

2-Chloroethyl Vinyl ether

Concen: 26.541 ug/l

RT: 8.32 min Scan# 1268

Delta R.T. 0.00 min

Lab File: VX003643.D

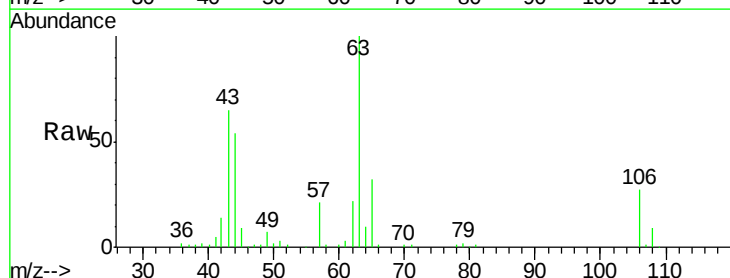
Acq: 24 Jul 2018 16:41

Tgt Ion: 63 Resp: 26433

Ion Ratio Lower Upper

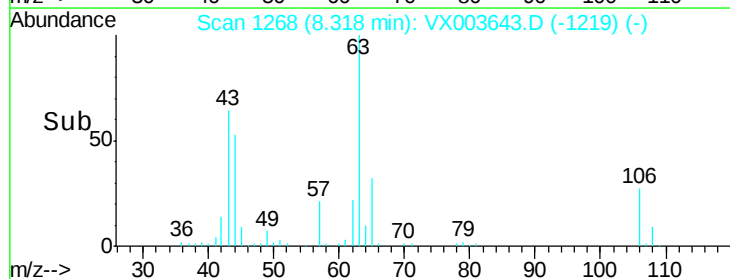
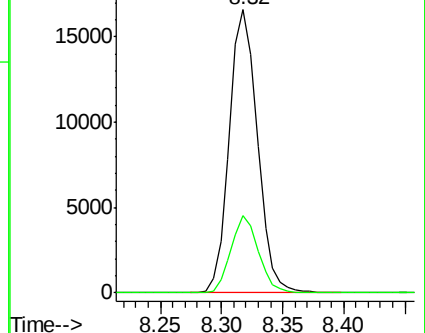
63 100

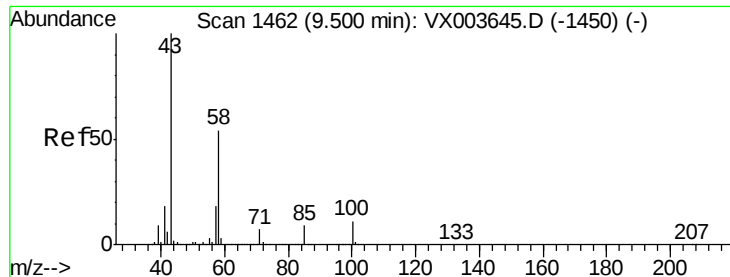
106 26.5 21.5 32.3



Abundance Ion 62.90 (62.60 to 63.60): VX0

Ion 105.90 (105.60 to 106.60): V





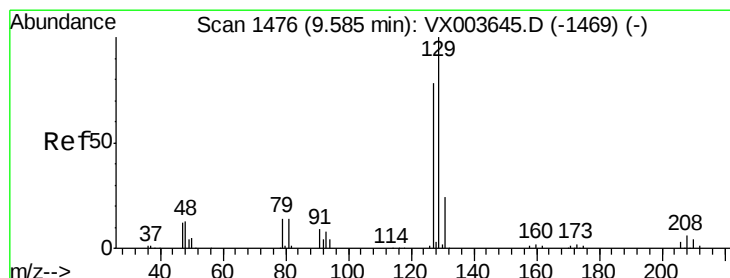
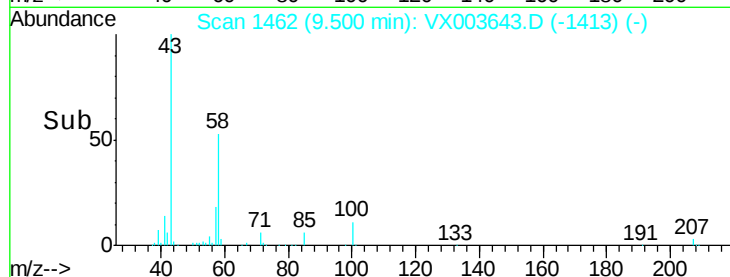
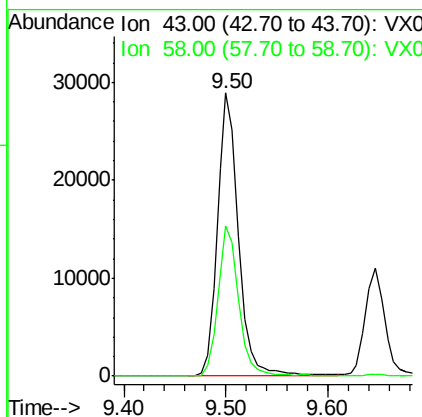
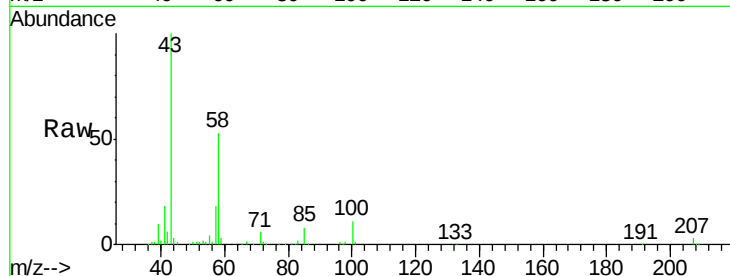
#59
2-Hexanone
Concen: 30.119 ug/l
RT: 9.50 min Scan# 1462
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion: 43 Resp: 41973
Ion Ratio Lower Upper
43 100
58 52.2 27.3 81.9

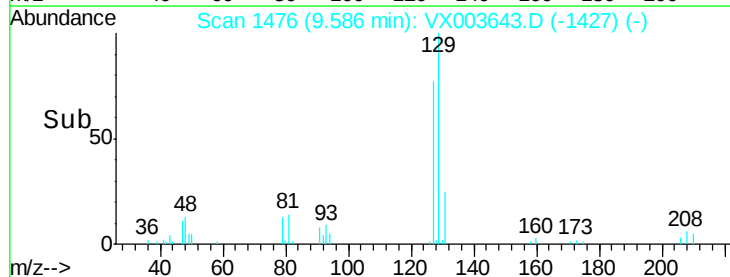
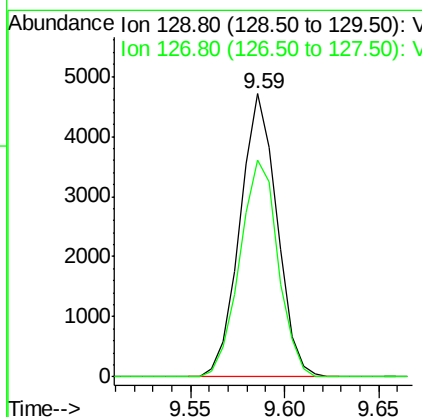
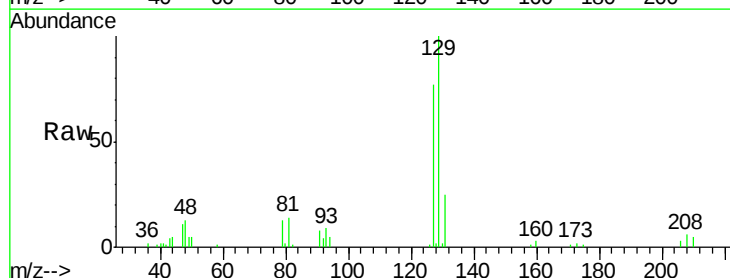
Manual Integrations
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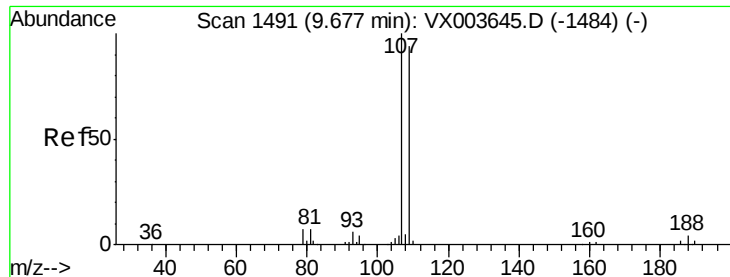
MMDadoda
8/2/2018 11:54:15 AM



#60
Dibromochloromethane
Concen: 4.593 ug/l
RT: 9.59 min Scan# 1476
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tgt Ion: 129 Resp: 6420
Ion Ratio Lower Upper
129 100
127 79.0 38.7 116.1





#61

1,2-Dibromoethane

Concen: 5.149 ug/l

RT: 9.68 min Scan# 1491

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:107 Resp: 7586

Ion Ratio Lower Upper

107 100

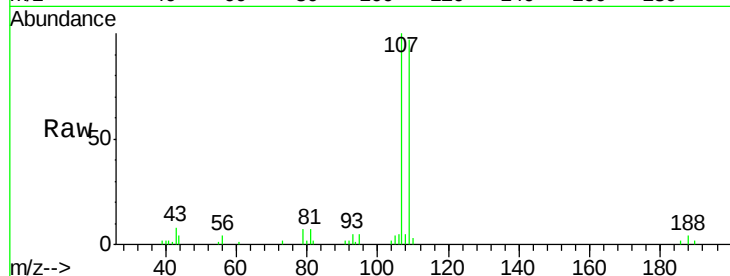
109 94.8 75.4 113.2

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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

9.68

6000

5000

4000

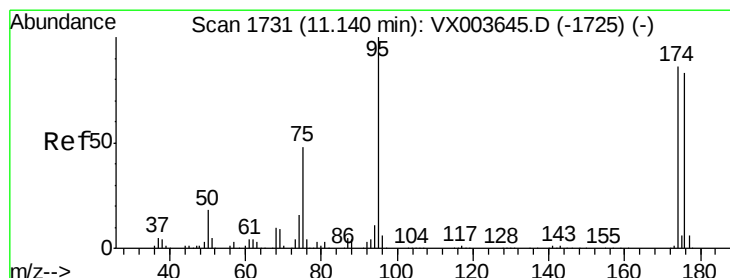
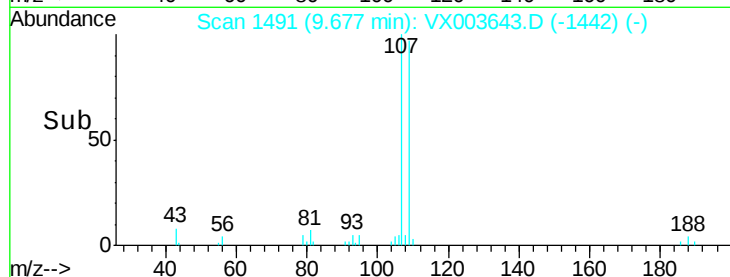
3000

2000

1000

0

Time--> 9.60 9.65 9.70 9.75



#62

4-Bromofluorobenzene

Concen: 4.867 ug/l

RT: 11.14 min Scan# 1731

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

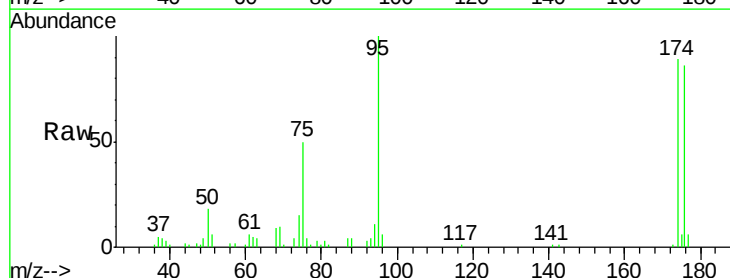
Tgt Ion: 95 Resp: 8888

Ion Ratio Lower Upper

95 100

174 88.4 0.0 179.0

176 88.4 0.0 173.0



Abundance Ion 94.90 (94.60 to 95.60): VX0

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

11.14

10000

8000

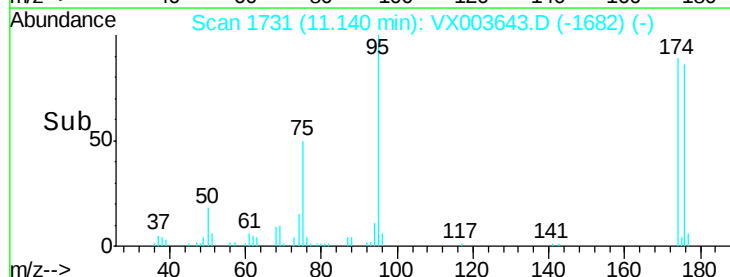
6000

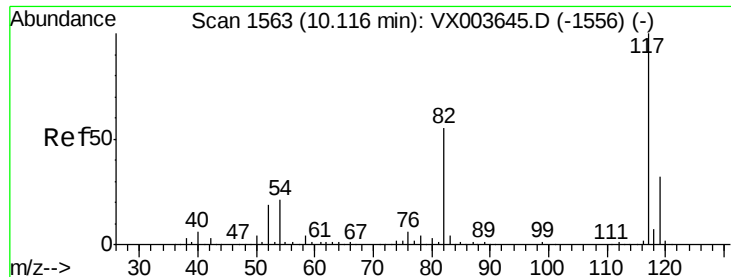
4000

2000

0

Time--> 11.10 11.15 11.20





#63

Chlorobenzene-d5

Concen: 50.000 ug/l

RT: 10.12 min Scan# 1563

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

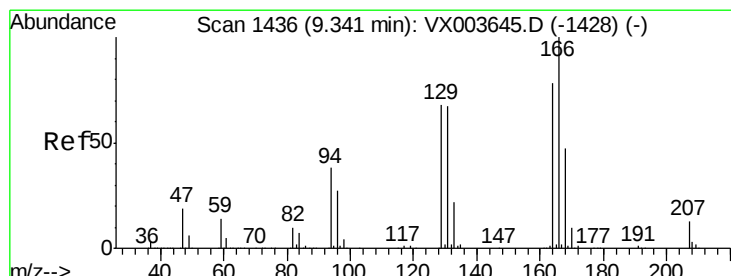
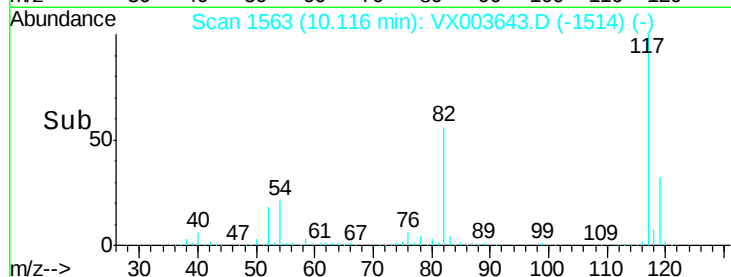
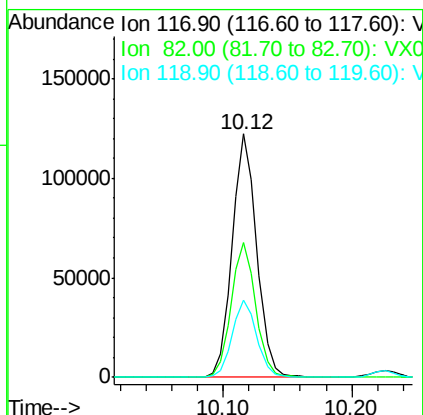
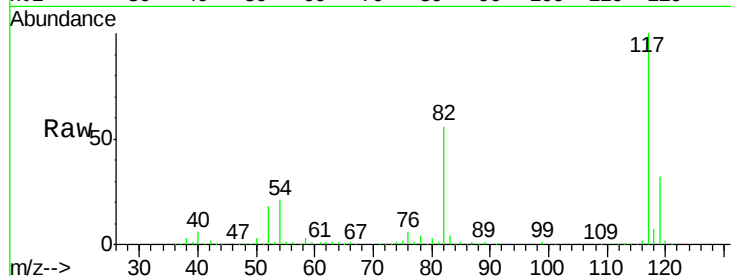
ClientSampleId :

VSTDIC005

Tot Ion:	117	Resp:	162674
Ion Ratio	Lower	Upper	
117	100		
82	55.6	44.3	66.5
119	31.9	25.6	38.4

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#64

Tetrachloroethene

Concen: 3.763 ug/l

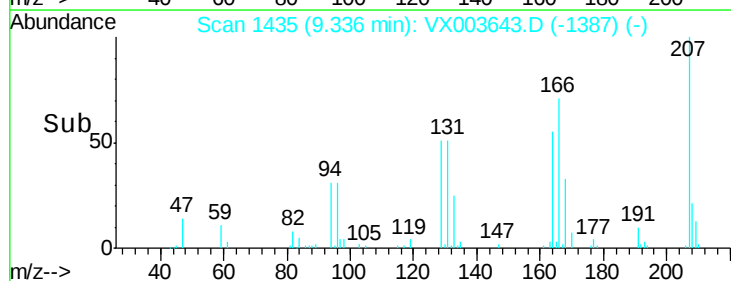
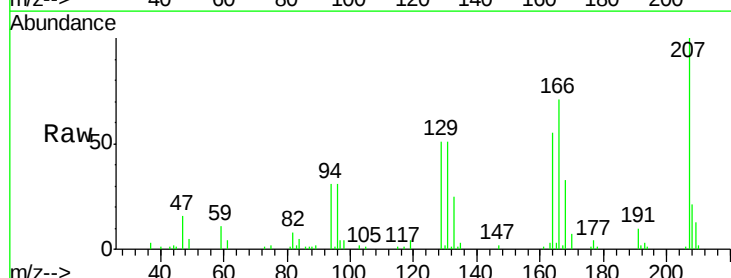
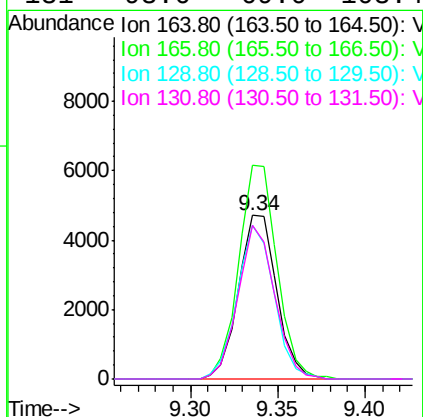
RT: 9.34 min Scan# 1435

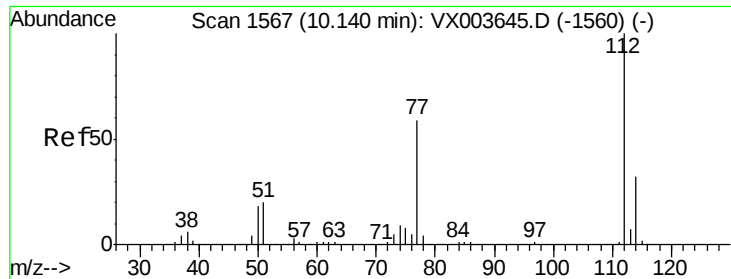
Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Tgt Ion:	164	Resp:	7160
Ion Ratio	Lower	Upper	
164	100		
166	130.4	102.4	153.6
129	93.8	69.6	104.4
131	93.6	69.0	103.4





#65

Chlorobenzene

Concen: 4.792 ug/l

RT: 10.14 min Scan# 1567

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:112 Resp: 20076

Ion Ratio Lower Upper

112 100

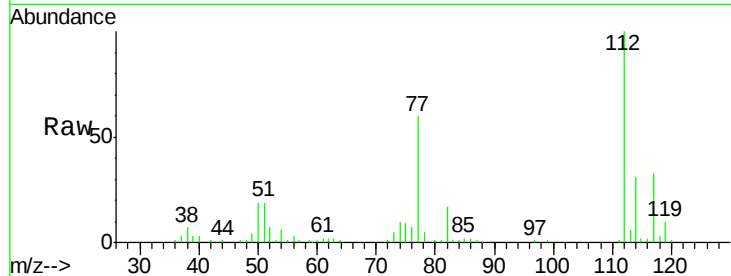
114 31.4 25.8 38.8

Manual Integrations

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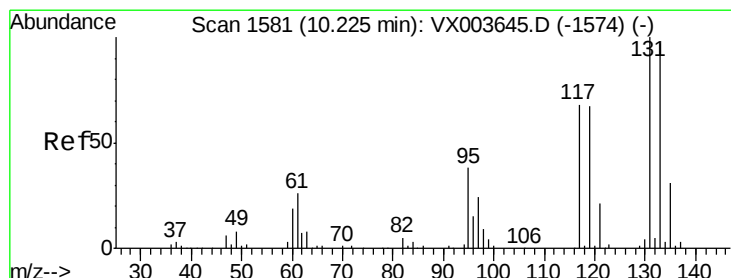
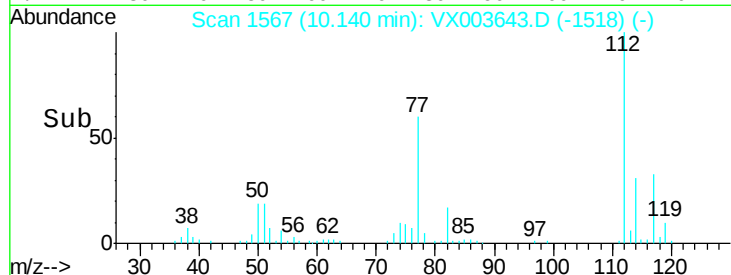
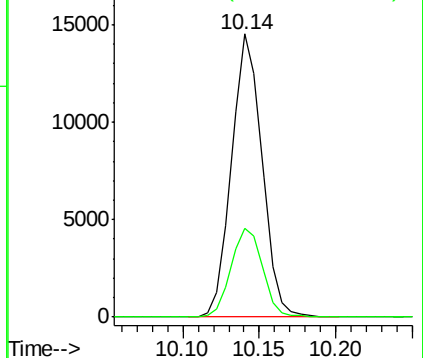
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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V



#66

1,1,1,2-Tetrachloroethane

Concen: 4.570 ug/l

RT: 10.23 min Scan# 1581

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

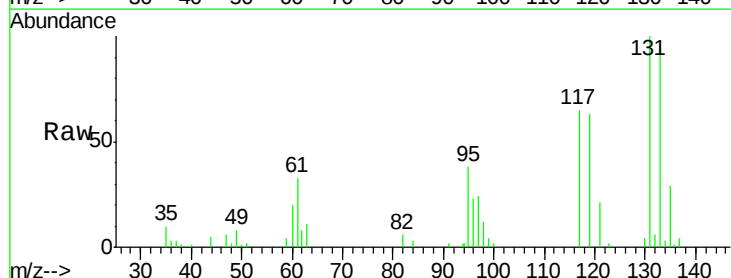
Tgt Ion:131 Resp: 6585

Ion Ratio Lower Upper

131 100

133 99.1 47.6 142.8

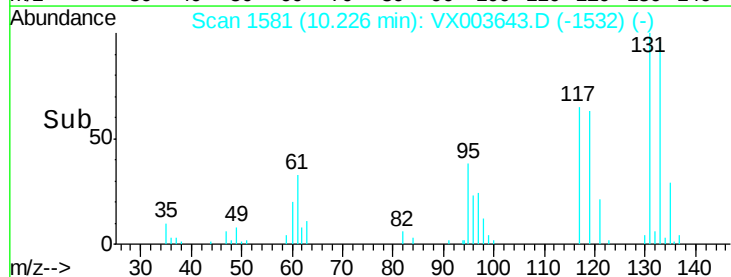
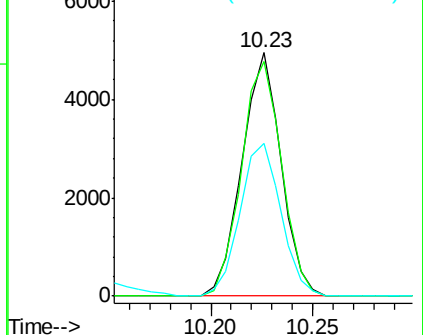
119 65.7 32.8 98.4

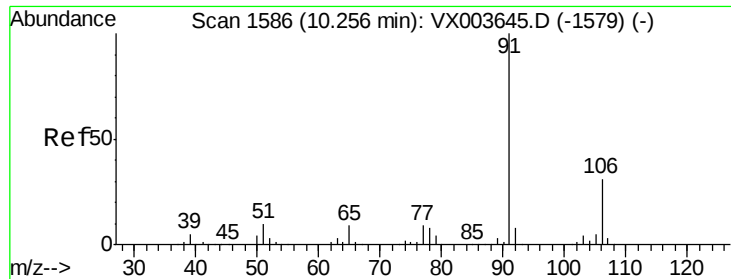


Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V





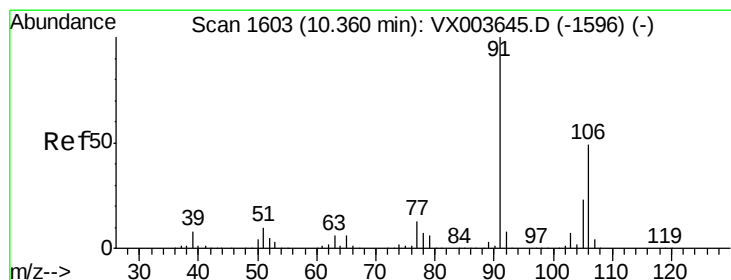
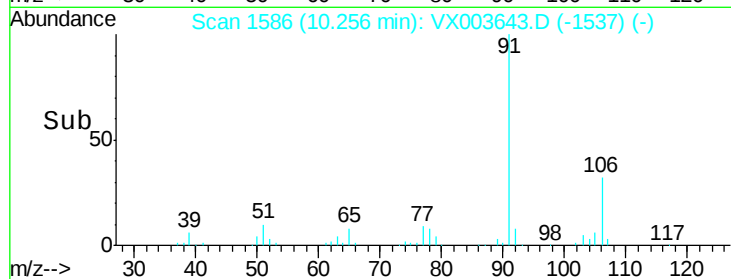
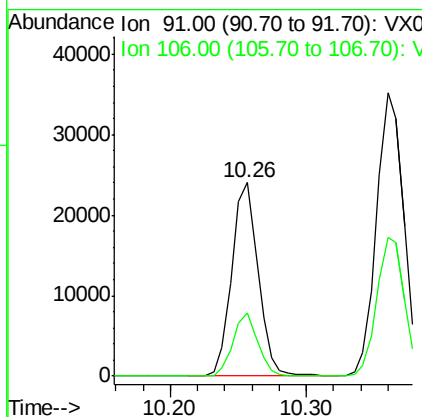
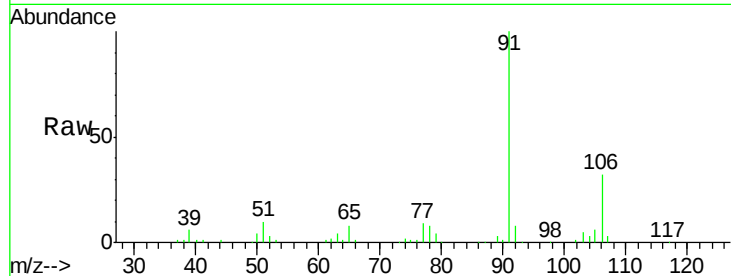
#67
Ethyl Benzene
Concen: 4.786 ug/l
RT: 10.26 min Scan# 1586
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion: 91 Resp: 32517
Ion Ratio Lower Upper
91 100
106 32.5 25.0 37.6

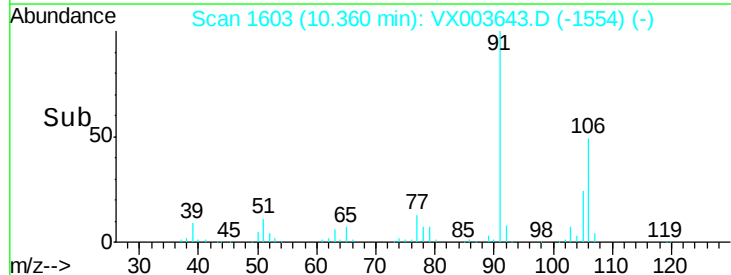
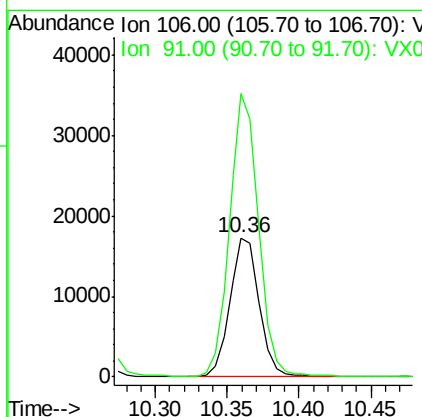
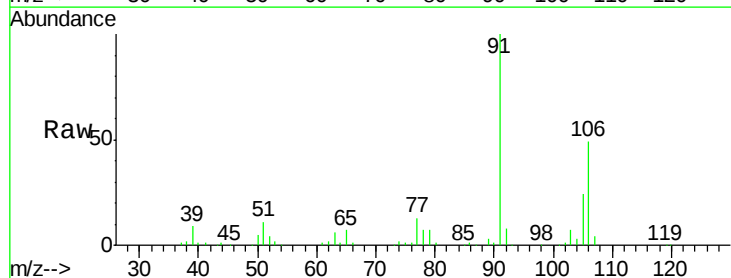
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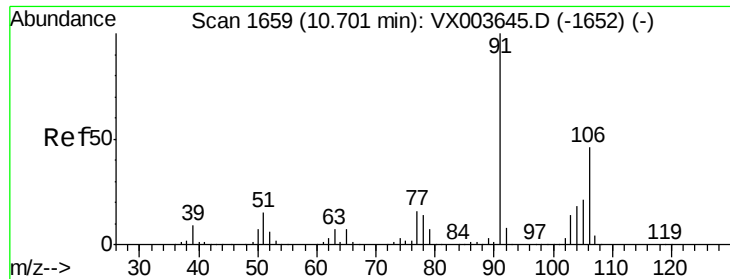
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#68
m/p-Xylenes
Concen: 9.217 ug/l
RT: 10.36 min Scan# 1603
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tgt Ion: 106 Resp: 24462
Ion Ratio Lower Upper
106 100
91 203.8 162.2 243.2





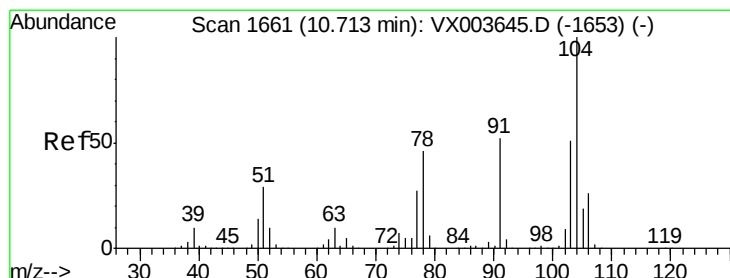
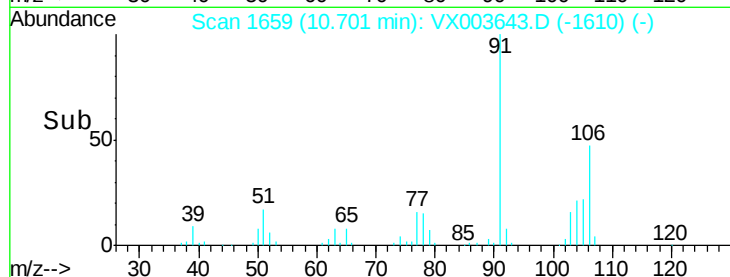
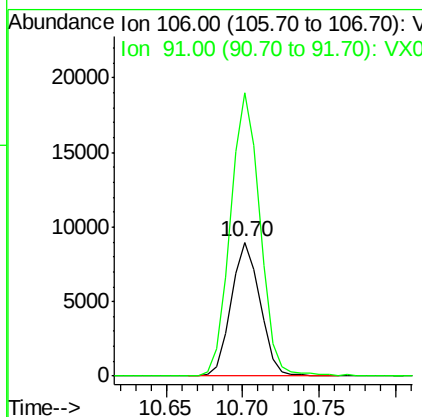
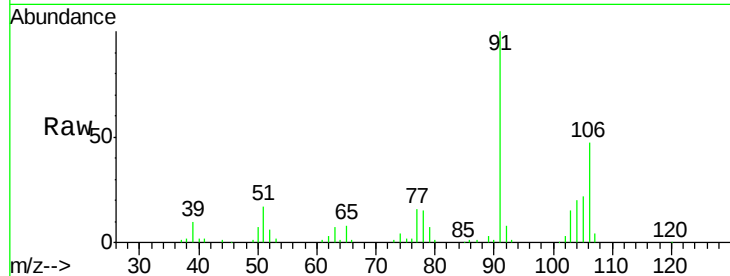
#69
o-Xylene
Concen: 4.590 ug/l
RT: 10.70 min Scan# 1659
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Instrument :
MSVOA_X
ClientSampleId :
VSTDIC005

Tot Ion:106 Resp: 11761
Ion Ratio Lower Upper
106 100
91 216.9 107.1 321.1

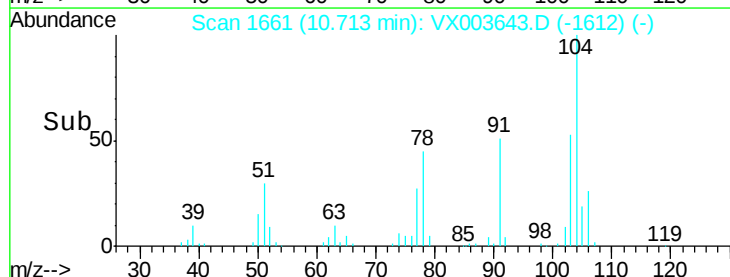
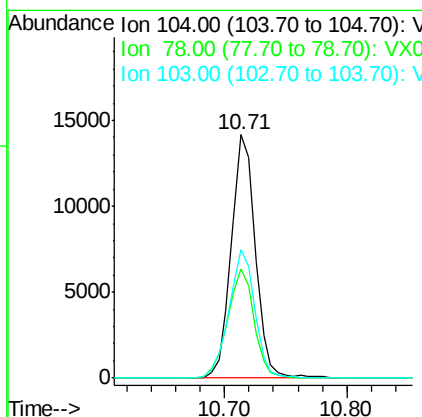
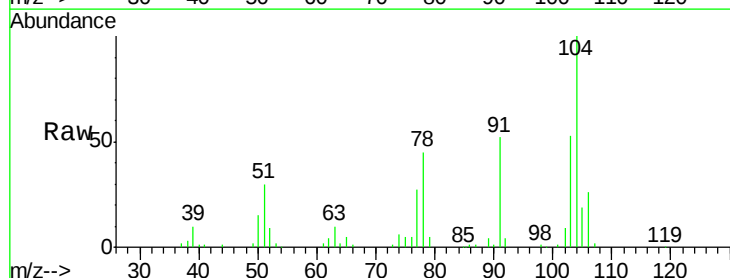
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#70
Styrene
Concen: 4.542 ug/l
RT: 10.71 min Scan# 1661
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tgt Ion:104 Resp: 19202
Ion Ratio Lower Upper
104 100
78 49.4 39.2 58.8
103 56.2 44.2 66.4





#71

Bromoform

Concen: 4.201 ug/l

RT: 10.86 min Scan# 1685

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion:173 Resp: 4711

Ion Ratio Lower Upper

173 100

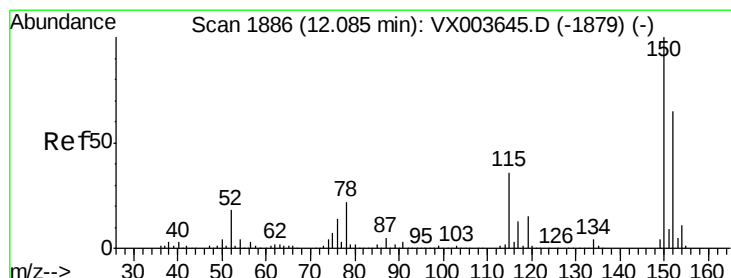
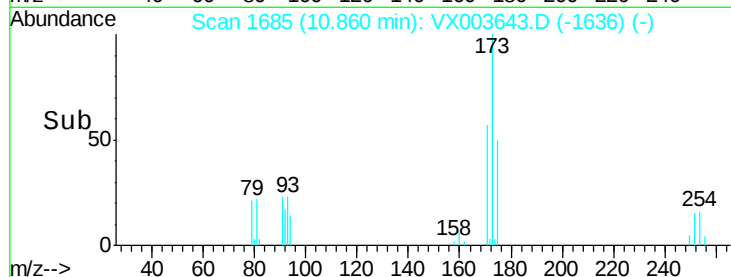
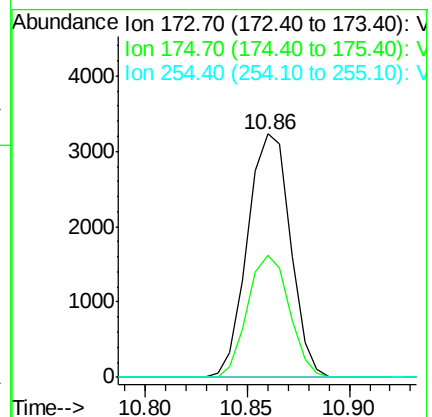
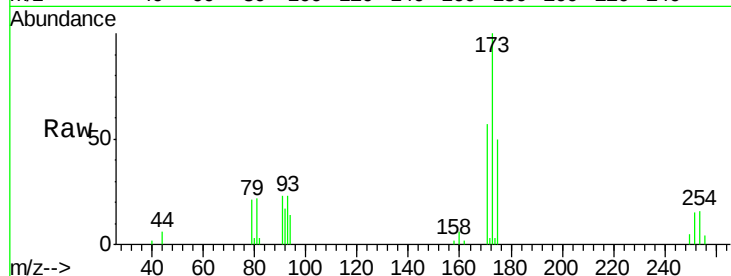
175 48.8 24.1 72.2

254 0.0 0.0 0.0

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#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 12.08 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

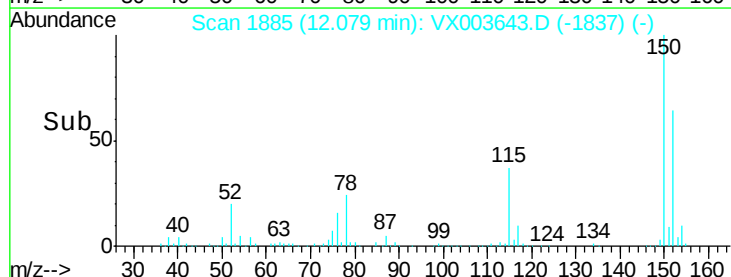
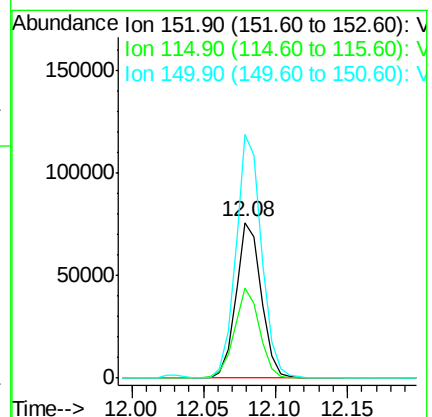
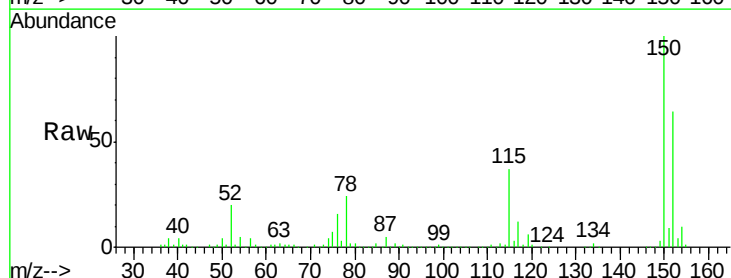
Tgt Ion:152 Resp: 93298

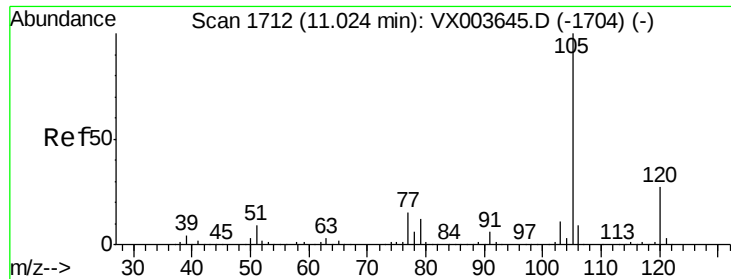
Ion Ratio Lower Upper

152 100

115 58.1 40.0 119.9

150 158.7 0.0 348.4





#73

Isopropylbenzene

Concen: 4.845 ug/l

RT: 11.02 min Scan# 1711

Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampled :

VSTDIC005

Tot Ion: 105 Resp: 31352

Ion Ratio Lower Upper

105 100

120 26.2

13.5

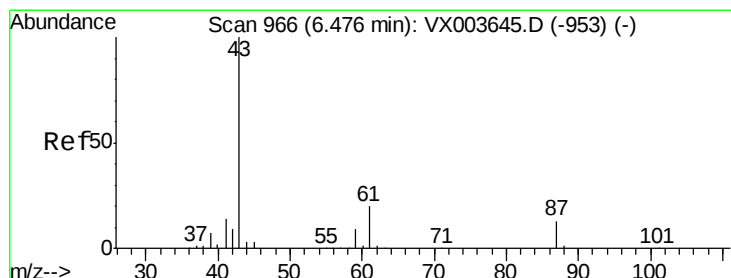
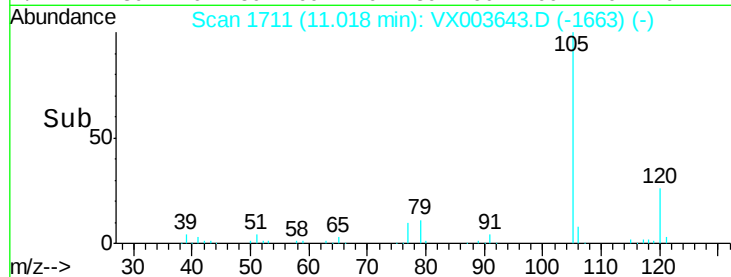
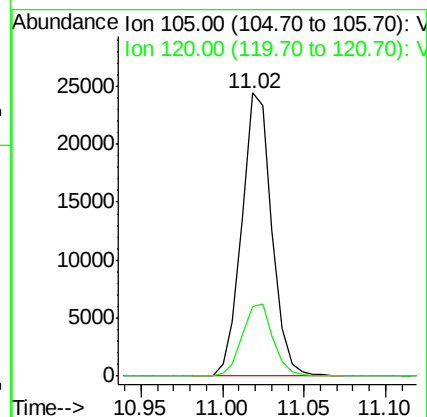
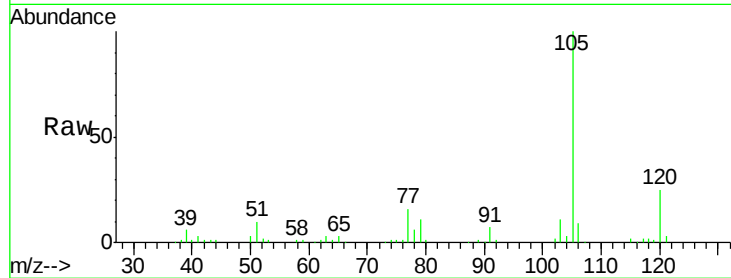
40.5

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#74

N-ethyl acetate

Concen: 5.926 ug/l

RT: 6.47 min Scan# 965

Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Tgt Ion: 43 Resp: 16906

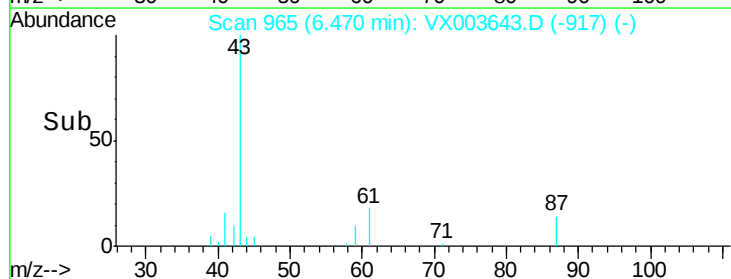
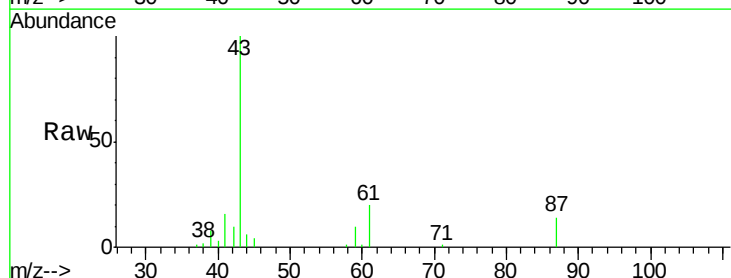
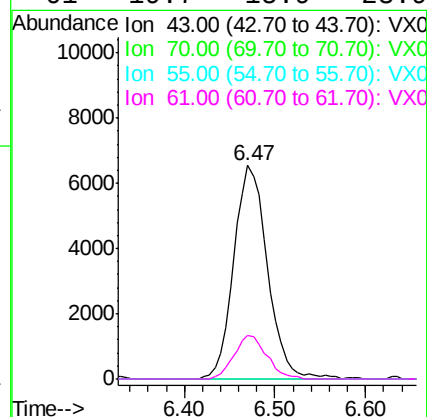
Ion Ratio Lower Upper

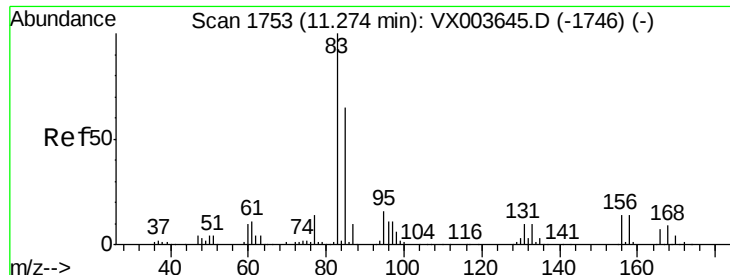
43 100

70 0.0 0.0 0.0

55 0.0 0.0 0.0

61 19.7 15.9 23.9





#75

1,1,2,2-Tetrachloroethane

Concen: 6.216 ug/l

RT: 11.27 min Scan# 1753

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

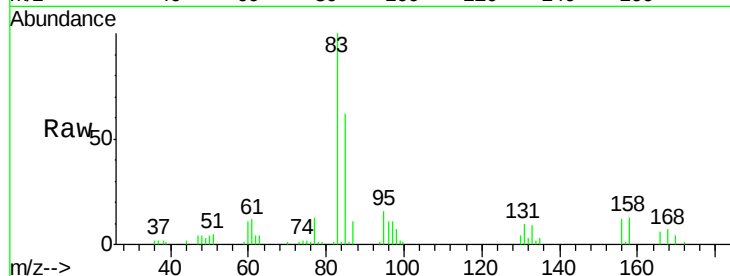
ClientSampleId :

VSTDIC005

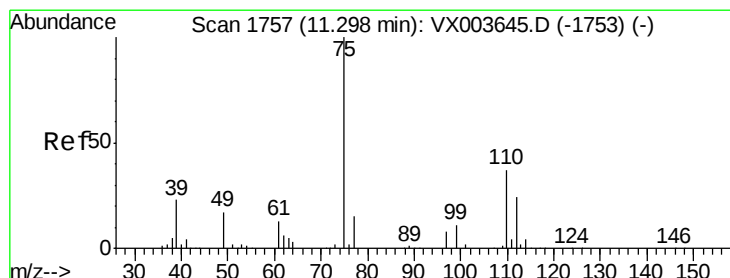
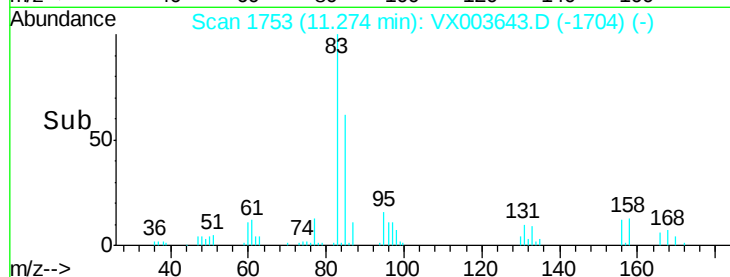
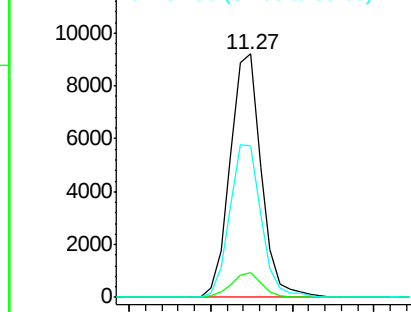
Tot Ion:	83	Resp:	12209
Ion	Ratio	Lower	Upper
83	100		
131	10.0	5.1	15.4
85	63.4	31.9	95.9

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Abundance Ion 82.90 (82.60 to 83.60): VX0
Ion 130.80 (130.50 to 131.50): V
Ion 84.90 (84.60 to 85.60): VX0



#76

1,2,3-Trichloropropane

Concen: 5.857 ug/l m

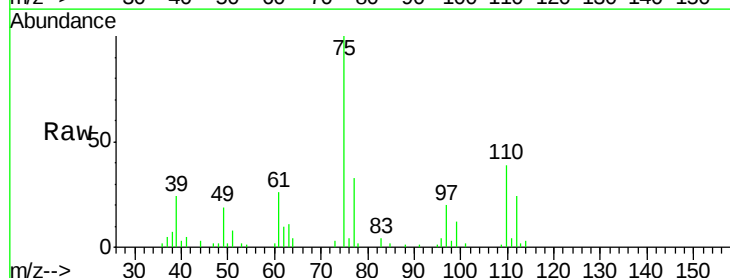
RT: 11.30 min Scan# 1757

Delta R.T. 0.00 min

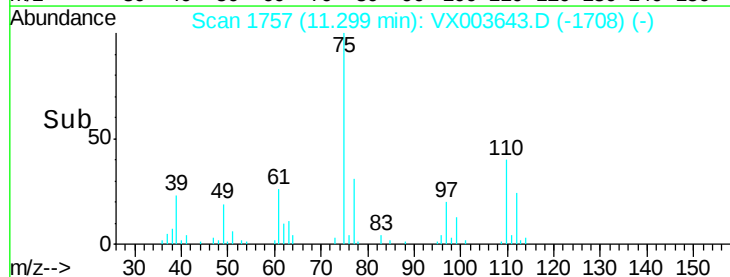
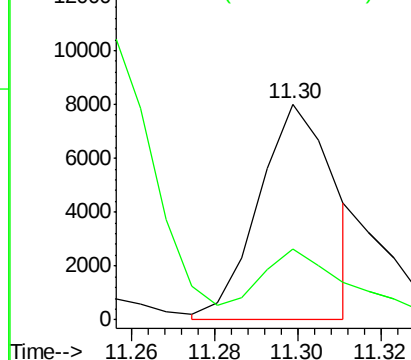
Lab File: VX003643.D

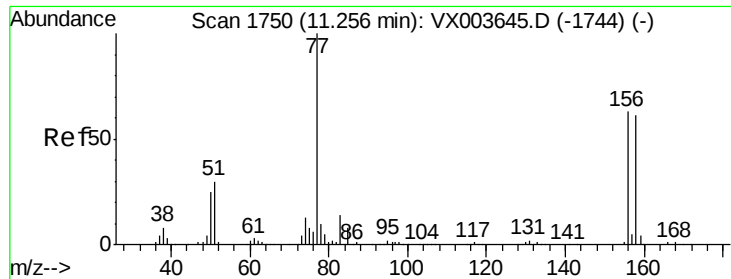
Acq: 24 Jul 2018 16:41

Tgt Ion:	75	Resp:	10100
Ion	Ratio	Lower	Upper
75	100		
77	40.7	21.6	64.6



Abundance Ion 74.90 (74.60 to 75.60): VX0
Ion 77.00 (76.70 to 77.70): VX0





#77

Bromobenzene

Concen: 4.628 ug/l

RT: 11.26 min Scan# 1750

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampled :

VSTDIC005

Tot Ion:156 Resp: 8531

Ion Ratio Lower Upper

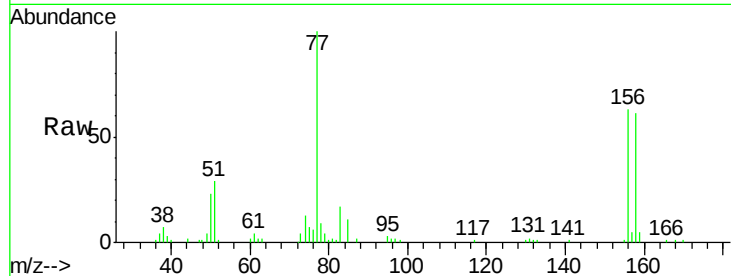
156 100

77 154.6 74.9 224.6

158 97.8 48.4 145.2

Manual Integrations
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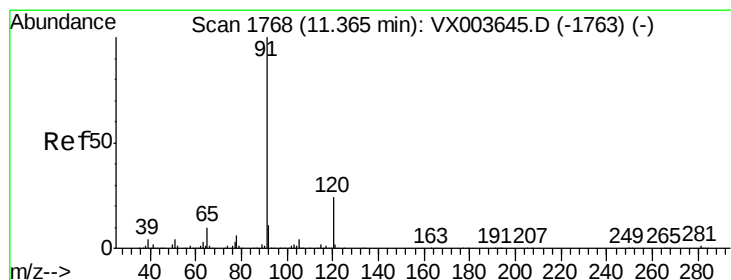
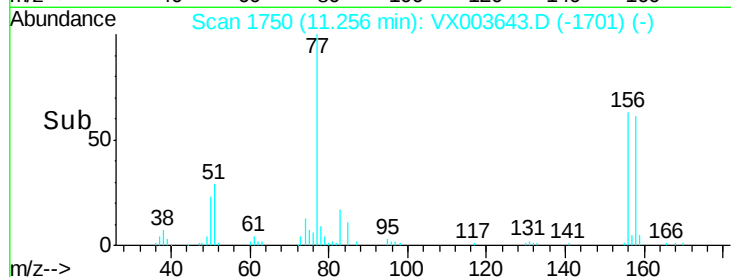
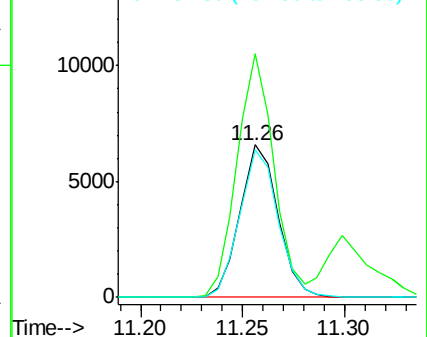
MMDadoda
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Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VX0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 4.840 ug/l

RT: 11.36 min Scan# 1767

Delta R.T. -0.01 min

Lab File: VX003643.D

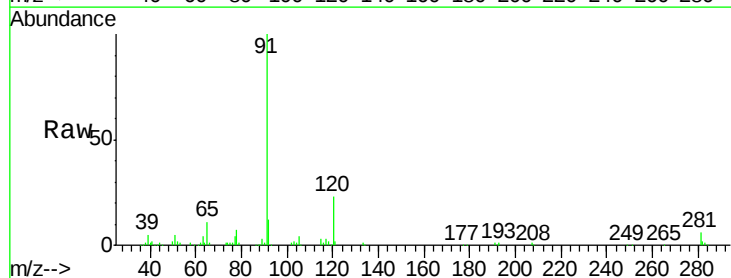
Acq: 24 Jul 2018 16:41

Tgt Ion: 91 Resp: 35084

Ion Ratio Lower Upper

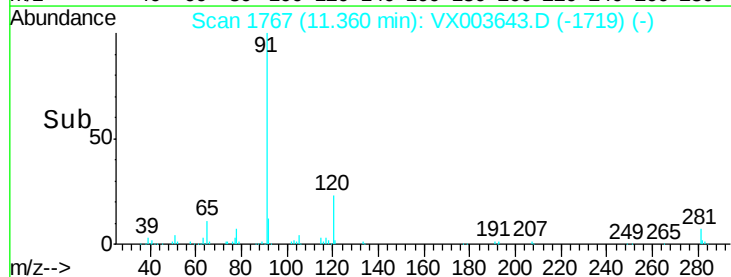
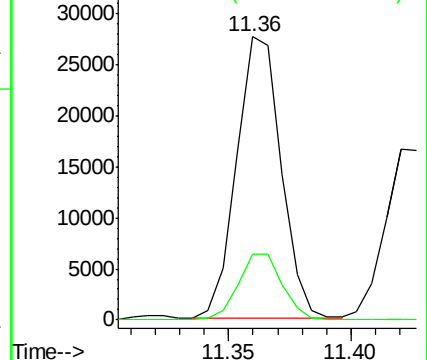
91 100

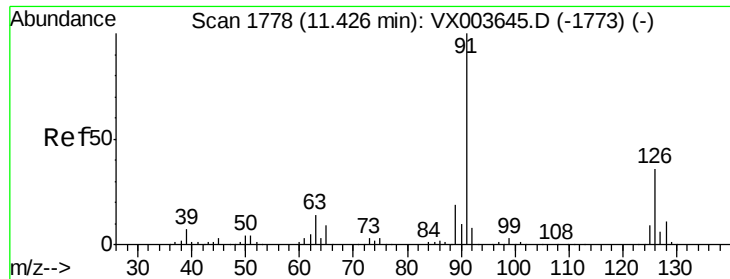
120 23.6 11.8 35.3



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 5.066 ug/l

RT: 11.42 min Scan# 1777

Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 91 Resp: 22275

Ion Ratio Lower Upper

91 100

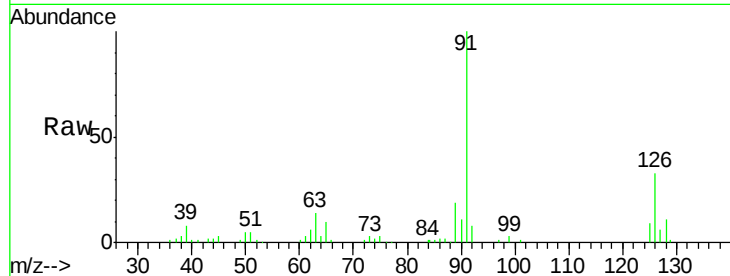
126 34.0 17.3 52.0

Manual Integrations

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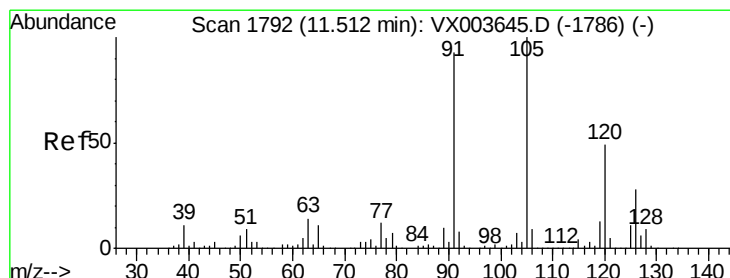
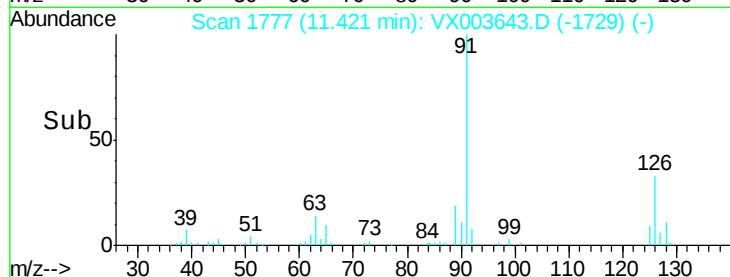
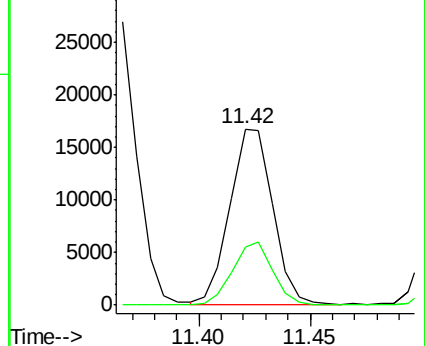
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Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V



#80

1,3,5-Trimethylbenzene

Concen: 4.844 ug/l

RT: 11.51 min Scan# 1791

Delta R.T. -0.01 min

Lab File: VX003643.D

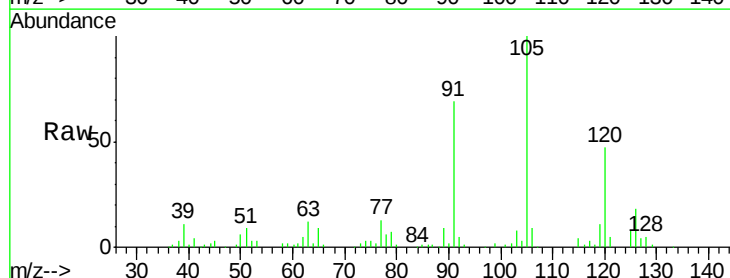
Acq: 24 Jul 2018 16:41

Tgt Ion:105 Resp: 25916

Ion Ratio Lower Upper

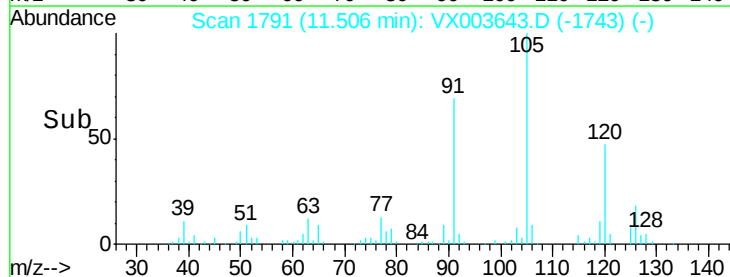
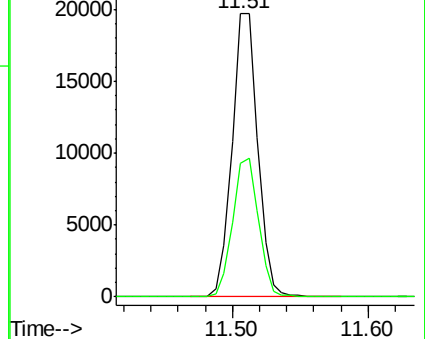
105 100

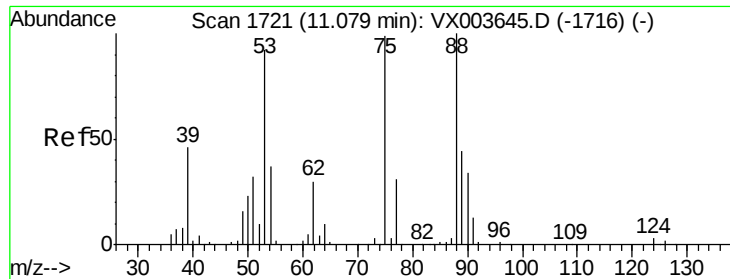
120 49.3 24.4 73.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#81

trans-1,4-Dichloro-2-butene

Concen: 4.876 ug/l

RT: 11.08 min Scan# 1721

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampleId :

VSTDIC005

Tot Ion: 75 Resp: 2652

Ion Ratio Lower Upper

75 100

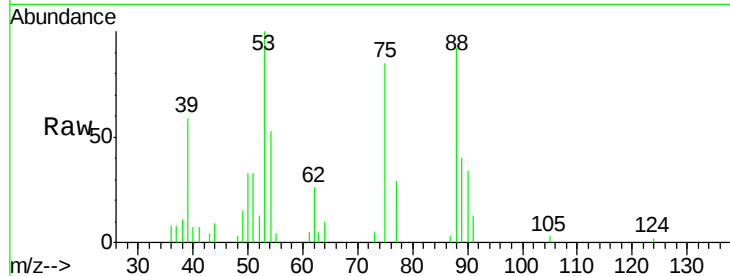
53 117.4 77.8 116.8#

89 47.0 36.6 54.8

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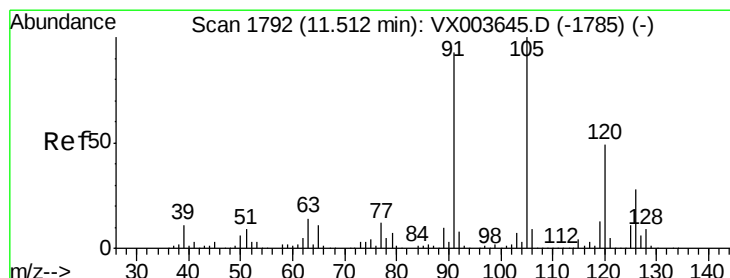
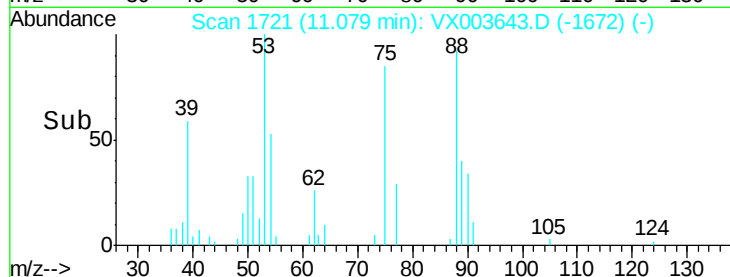
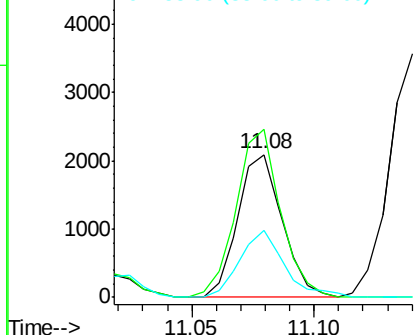
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Abundance Ion 74.90 (74.60 to 75.60): VX0

Ion 53.00 (52.70 to 53.70): VX0

Ion 88.90 (88.60 to 89.60): VX0



#82

4-Chlorotoluene

Concen: 5.000 ug/l

RT: 11.51 min Scan# 1792

Delta R.T. 0.00 min

Lab File: VX003643.D

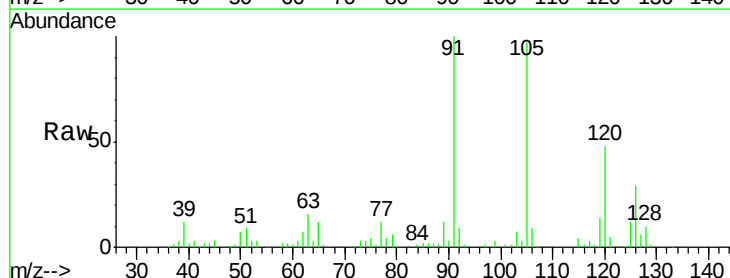
Acq: 24 Jul 2018 16:41

Tgt Ion: 91 Resp: 25802

Ion Ratio Lower Upper

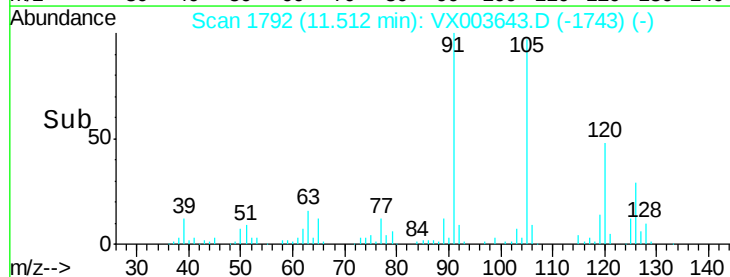
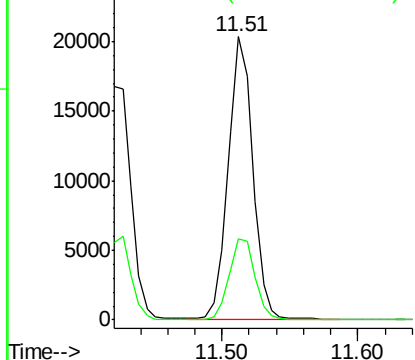
91 100

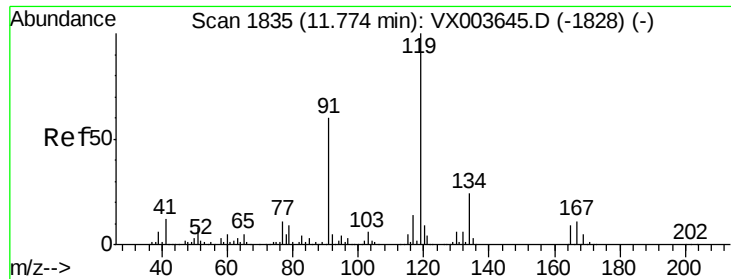
126 29.8 15.4 46.1



Abundance Ion 91.00 (90.70 to 91.70): VX0

Ion 125.90 (125.60 to 126.60): V





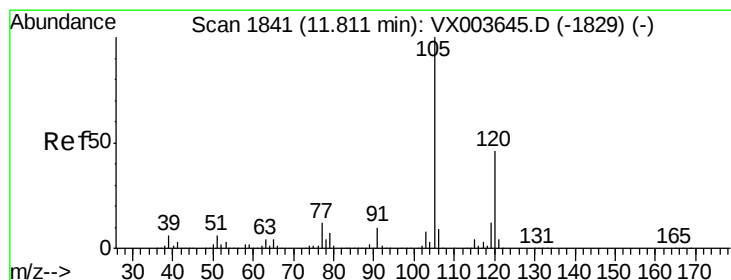
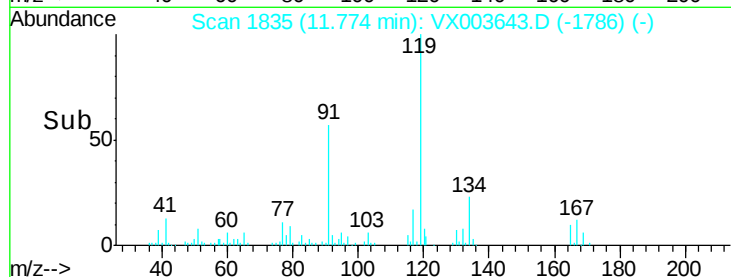
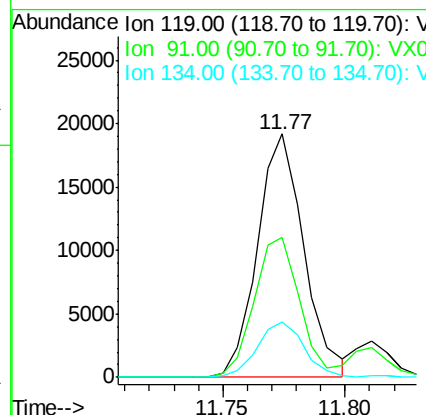
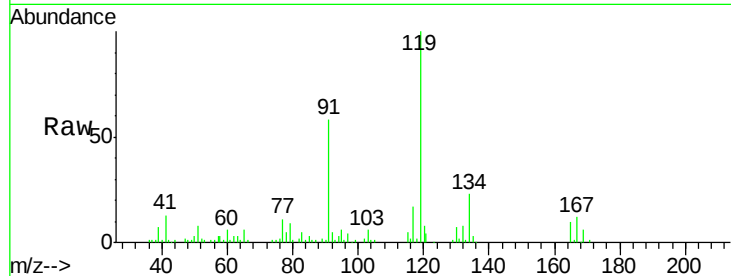
#83
tert-Butylbenzene
Concen: 4.859 ug/l
RT: 11.77 min Scan# 1835
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Instrument :
MSVOA_X
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
119	100		
91	55.9	28.4	85.2
134	22.9	11.6	34.8

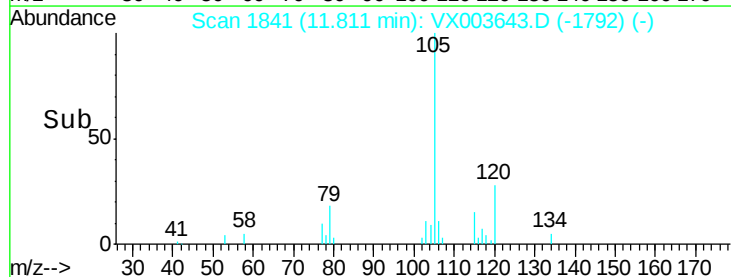
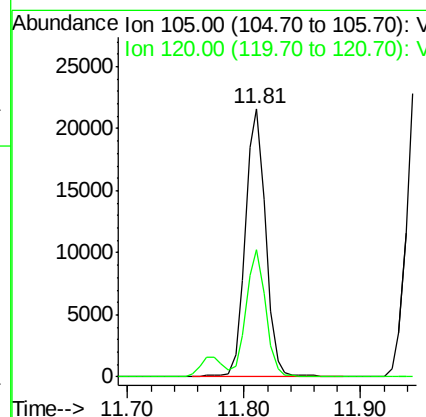
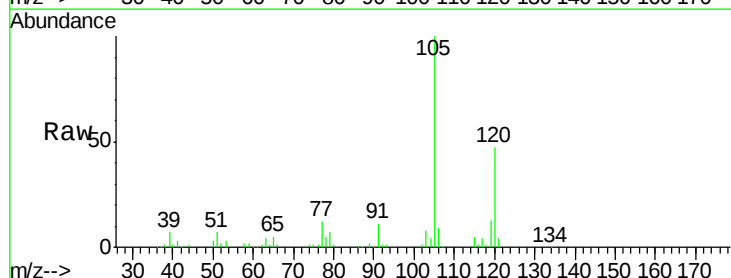
Manual Integrations
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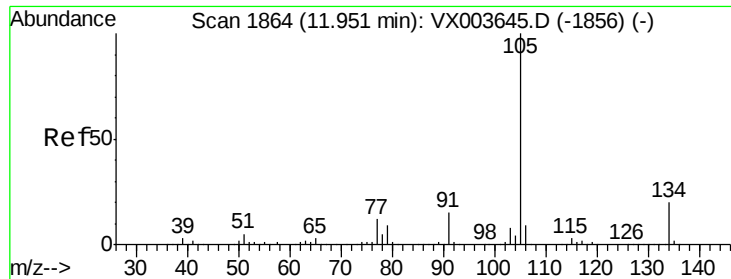
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#84
1,2,4-Trimethylbenzene
Concen: 4.851 ug/l
RT: 11.81 min Scan# 1841
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.6	22.6	67.8





#85

sec-Butylbenzene

Concen: 4.826 ug/l

RT: 11.95 min Scan# 1864

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

ClientSampled :

VSTDIC005

Tot Ion:105 Resp: 30626

Ion Ratio Lower Upper

105 100

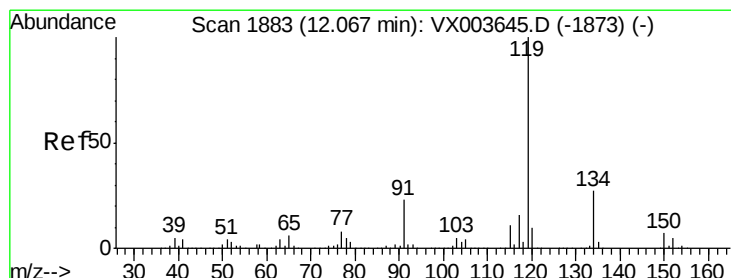
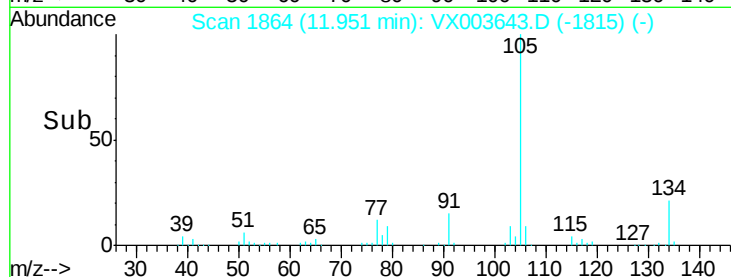
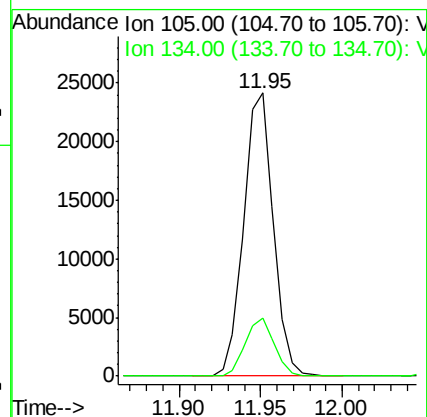
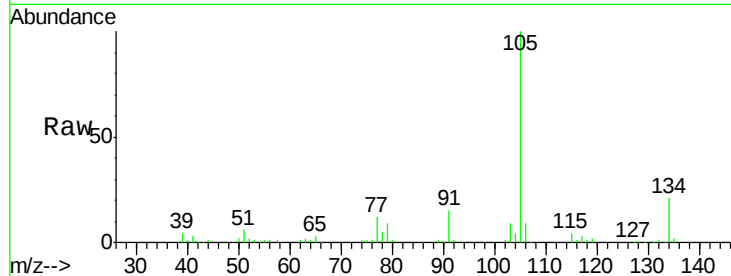
134 20.1 10.1 30.1

Manual Integrations

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#86

p-Isopropyltoluene

Concen: 4.654 ug/l

RT: 12.07 min Scan# 1883

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

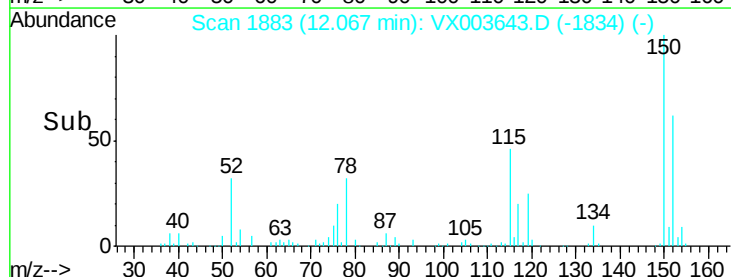
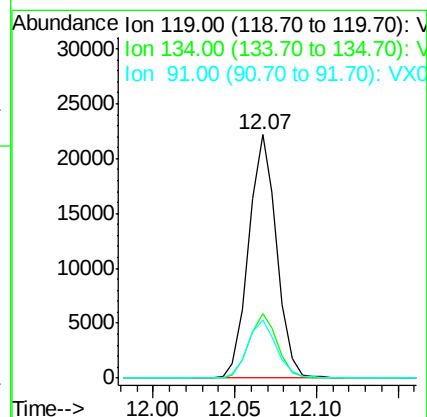
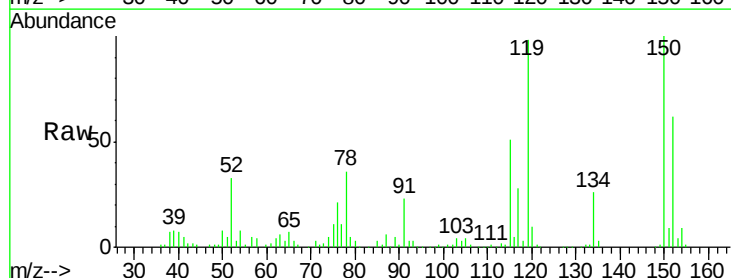
Tgt Ion:119 Resp: 26469

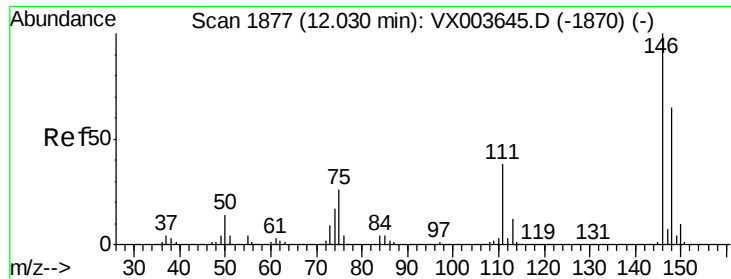
Ion Ratio Lower Upper

119 100

134 26.8 13.3 39.9

91 24.7 11.5 34.5





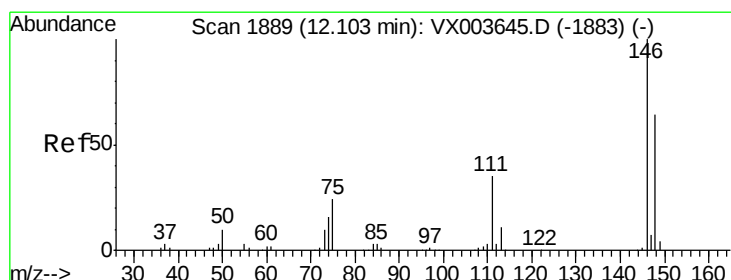
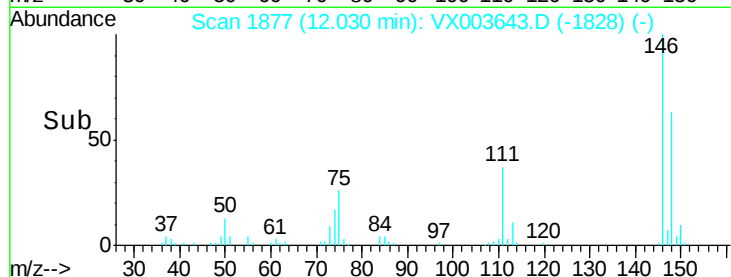
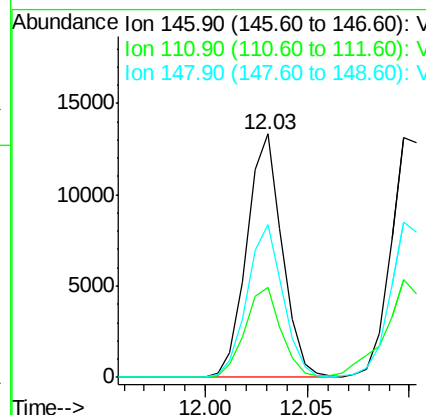
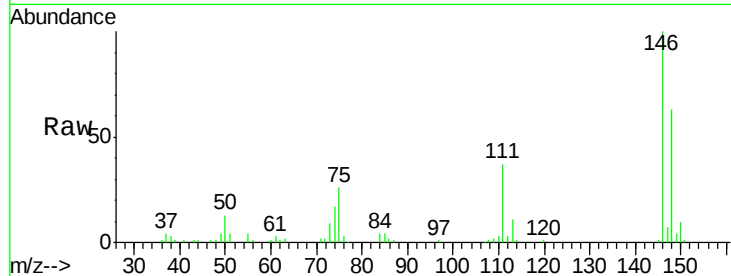
#87
 1,3-Dichlorobenzene
 Concen: 4.714 ug/l
 RT: 12.03 min Scan# 1877
 Delta R.T. 0.00 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.0	19.4	58.2
148	63.4	32.4	97.0

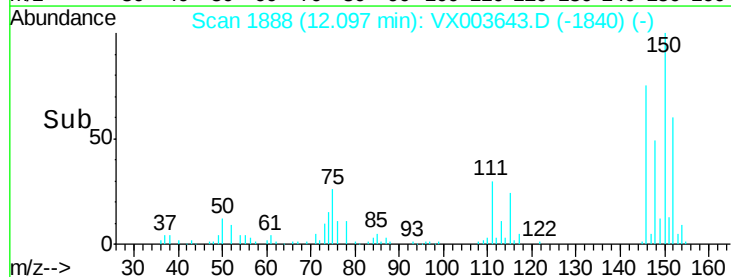
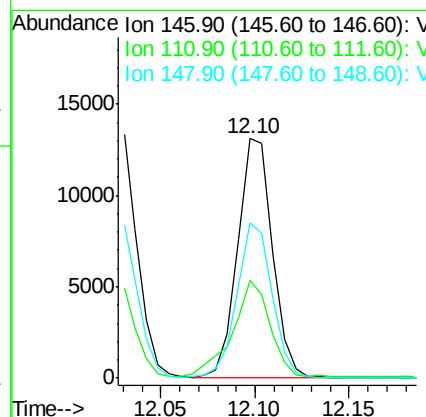
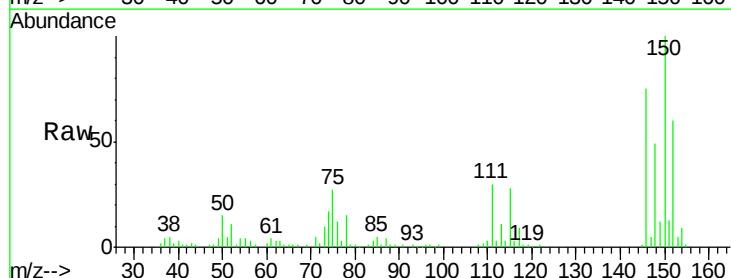
Manual Integrations
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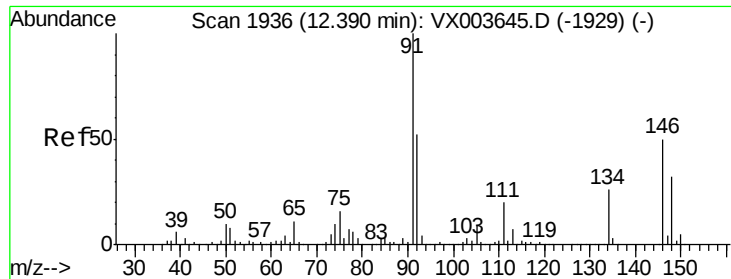
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#88
 1,4-Dichlorobenzene
 Concen: 4.806 ug/l
 RT: 12.10 min Scan# 1888
 Delta R.T. -0.01 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Tgt Ion	Ratio	Lower	Upper
146	100		
111	46.4	18.6	55.6
148	65.3	32.0	96.2





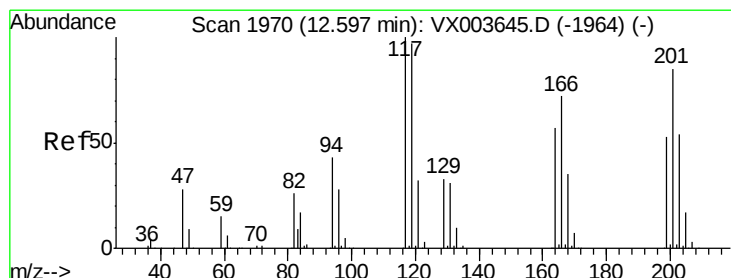
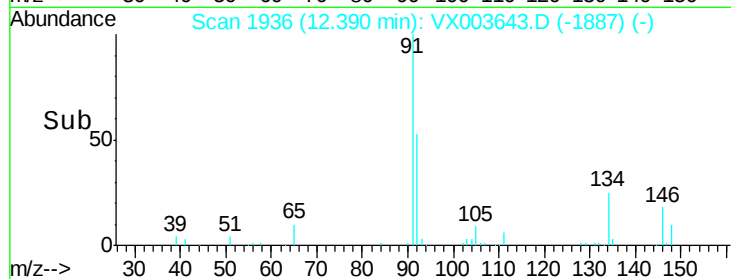
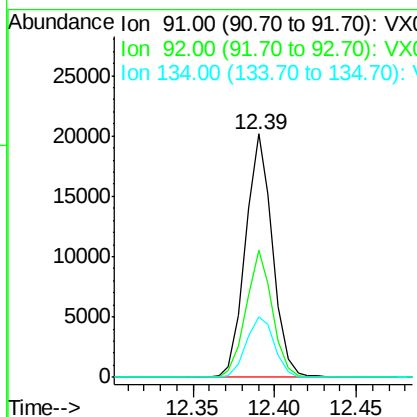
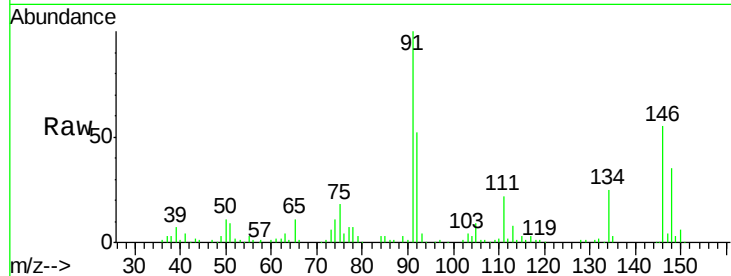
#89
n-Butylbenzene
Concen: 4.786 ug/l
RT: 12.39 min Scan# 1936
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Instrument :
MSVOA_X
ClientSampled :
VSTDIC005

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.8	26.3	78.9
134	25.9	13.3	39.8

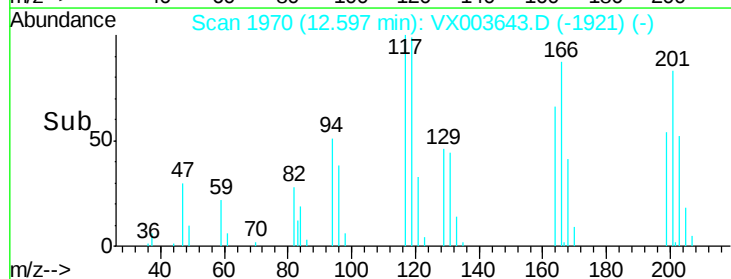
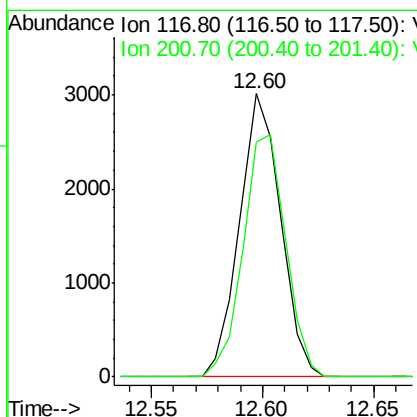
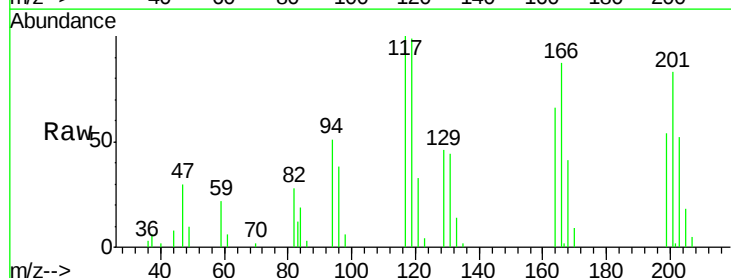
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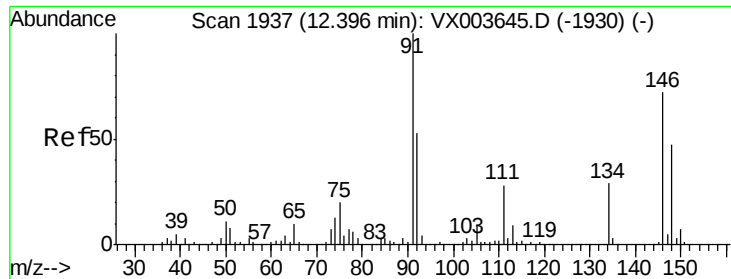
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#90
Hexachloroethane
Concen: 4.759 ug/l
RT: 12.60 min Scan# 1970
Delta R.T. 0.00 min
Lab File: VX003643.D
Acq: 24 Jul 2018 16:41

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.7	46.2	138.5





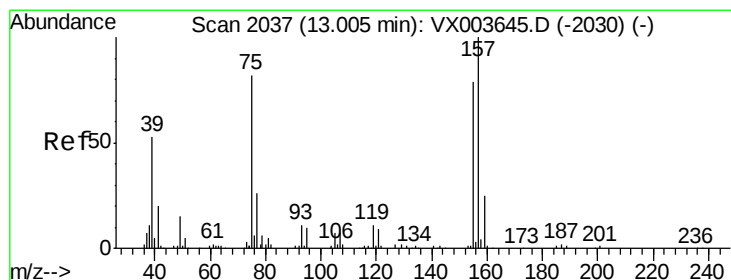
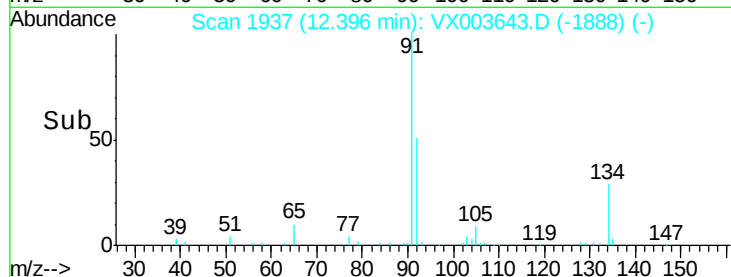
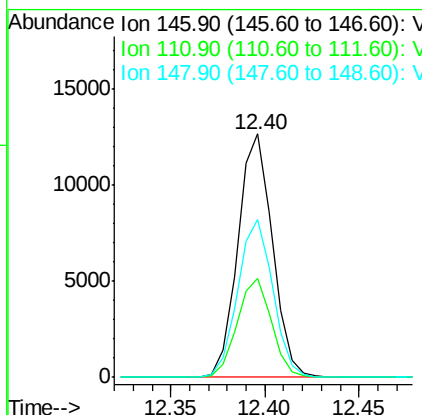
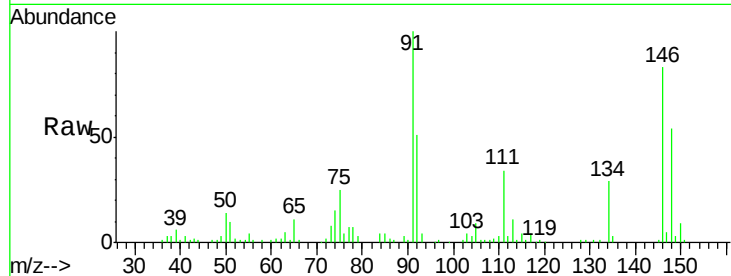
#91
 1,2-Dichlorobenzene
 Concen: 4.764 ug/l
 RT: 12.40 min Scan# 1937
 Delta R.T. 0.00 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.7	19.8	59.4
148	66.0	32.2	96.6

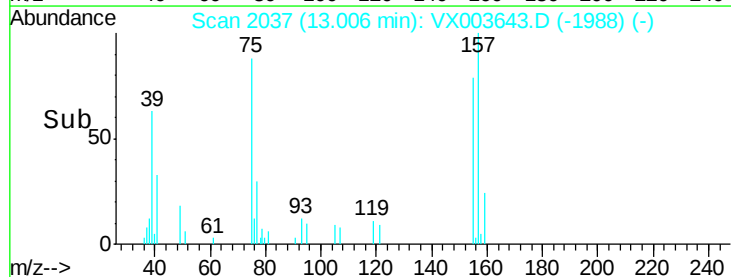
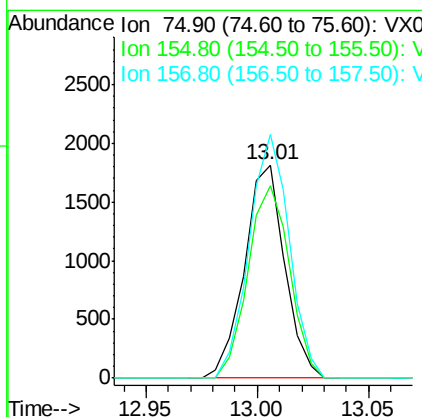
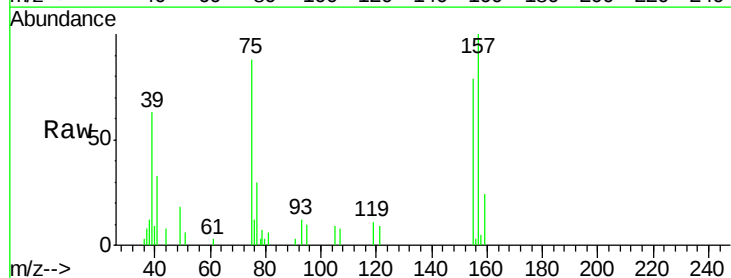
Manual Integrations
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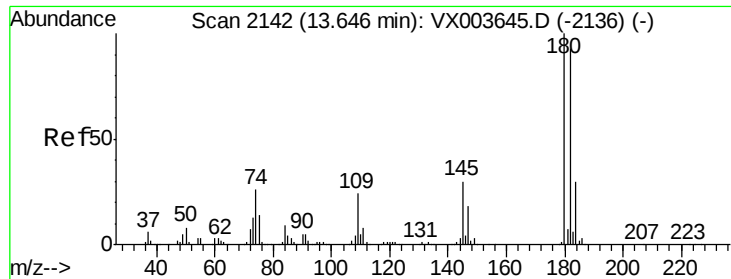
MMDadoda
 8/2/2018 11:54:15 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 5.910 ug/l
 RT: 13.01 min Scan# 2037
 Delta R.T. 0.00 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Tgt Ion	Ratio	Lower	Upper
75	100		
155	92.6	46.1	138.3
157	113.2	59.7	179.0





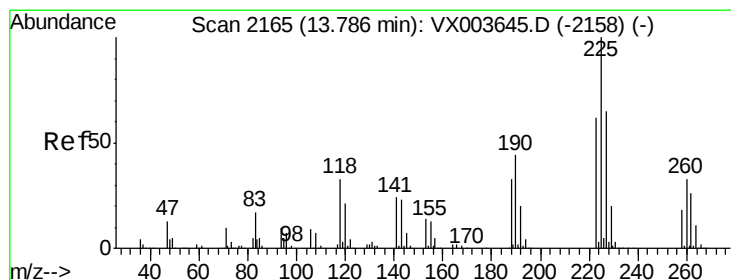
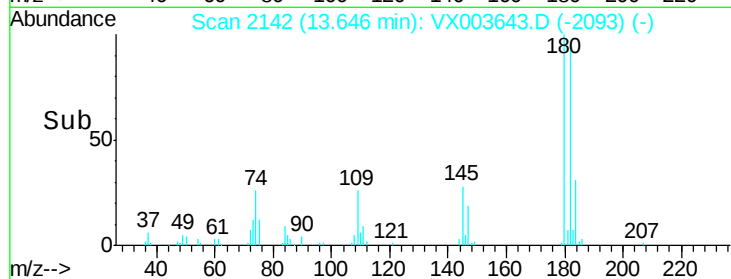
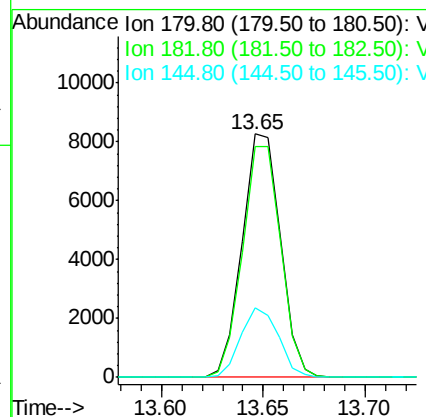
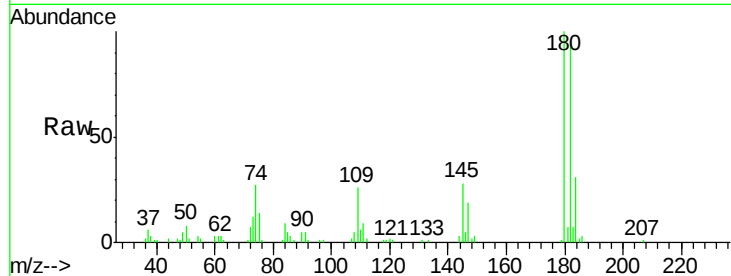
#93
 1,2,4-Trichlorobenzene
 Concen: 4.398 ug/l
 RT: 13.65 min Scan# 2142
 Delta R.T. 0.00 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Instrument :
 MSVOA_X
 ClientSampleId :
 VSTDIC005

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.3	47.9	143.8
145	28.0	14.4	43.2

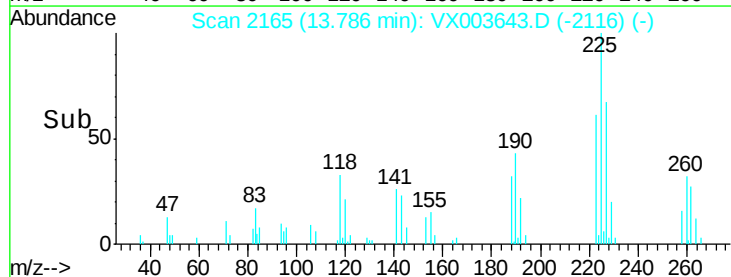
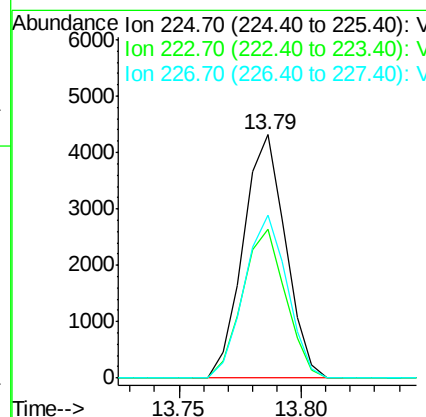
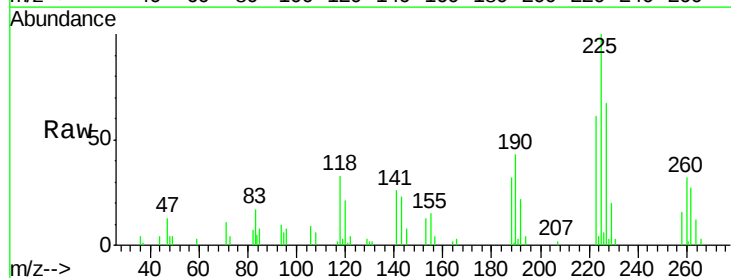
Manual Integrations
 APPROVED

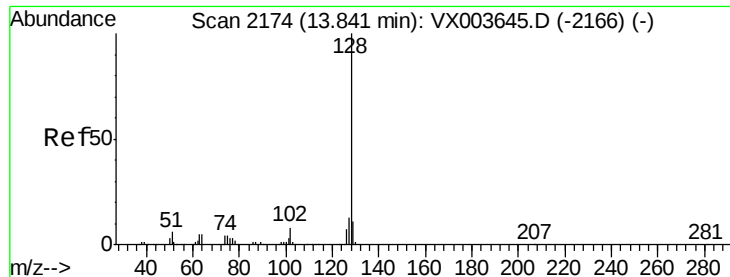
MMDadoda
 8/2/2018 11:54:15 AM



#94
 Hexachlorobutadiene
 Concen: 4.442 ug/l
 RT: 13.79 min Scan# 2165
 Delta R.T. 0.00 min
 Lab File: VX003643.D
 Acq: 24 Jul 2018 16:41

Tgt Ion	Ratio	Lower	Upper
225	100		
223	62.3	30.9	92.5
227	67.9	31.9	95.7





#95

Naphthalene

Concen: 4.842 ug/l

RT: 13.83 min Scan# 2173

Delta R.T. -0.01 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Instrument :

MSVOA_X

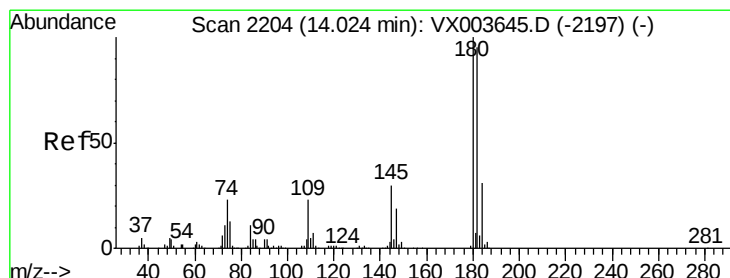
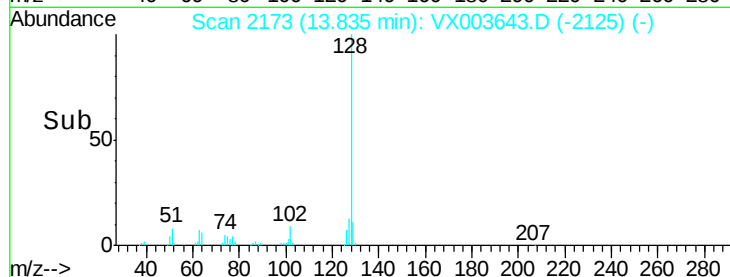
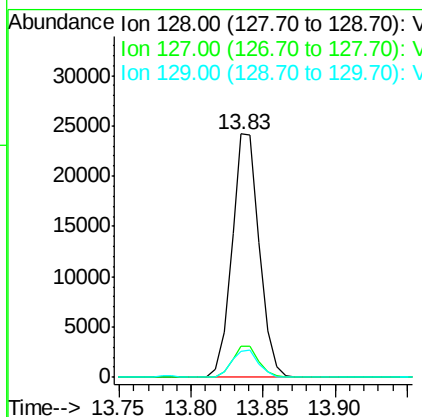
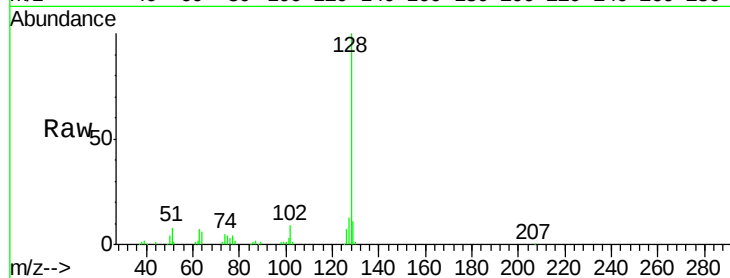
ClientSampleId :

VSTDIC005

Tot Ion:	128	Resp:	32040
Ion	Ratio	Lower	Upper
128	100		
127	12.6	10.4	15.6
129	11.1	8.7	13.1

Manual Integrations
APPROVED

MMDadoda
8/2/2018 11:54:15 AM



#96

1,2,3-Trichlorobenzene

Concen: 4.630 ug/l

RT: 14.02 min Scan# 2204

Delta R.T. 0.00 min

Lab File: VX003643.D

Acq: 24 Jul 2018 16:41

Tgt Ion:	180	Resp:	11328
Ion	Ratio	Lower	Upper
180	100		
182	97.3	47.6	142.8
145	30.1	15.0	45.1

