

Data Path : W:\HPCHEM1\MSVOA N\DATA\VN091515\
 Data File : VN027181.D
 Acq On : 15 Sep 2015 23:47
 Operator : MD\FY
 Sample : VN0915WBSD01
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 15 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD01

Manual Integrations
 APPROVED

MMDadoda
 9/16/2015 11:47:44 AM

Quant Time: Sep 16 01:35:42 2015
 Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N091515W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 15 21:12:09 2015
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.75	168	557817	50.00	ug/l	0.00
35) 1,4-Difluorobenzene	8.68	114	1059491	50.00	ug/l	0.00
64) Chlorobenzene-d5	11.52	117	903410	50.00	ug/l	0.00
73) 1,4-Dichlorobenzene-d4	13.47	152	339753	50.00	ug/l	0.00

System Monitoring Compounds

34) 1,2-Dichloroethane-d4	8.12	65	545370	47.72	ug/l	0.00
Spiked Amount	50.000		Recovery	=	95.44%	
36) Dibromofluoromethane	7.68	113	342048	46.57	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.14%	
51) Toluene-d8	10.19	98	1342815	46.70	ug/l	0.00
Spiked Amount	50.000		Recovery	=	93.40%	
63) 4-Bromofluorobenzene	12.52	95	472509	46.30	ug/l	0.00
Spiked Amount	50.000		Recovery	=	92.60%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.80	85	132551	19.86	ug/l	99
3) Chlorodifluoromethane	1.82	51	161620	20.93	ug/l	94
4) Chloromethane	2.01	50	152205	21.02	ug/l	97
5) Vinyl Chloride	2.14	62	157467	19.98	ug/l	99
6) Bromomethane	2.54	94	78847	21.32	ug/l	100
7) Chloroethane	2.69	64	103581	19.33	ug/l	100
8) Trichlorofluoromethane	3.02	101	236483	19.86	ug/l	95
9) Diethyl Ether	3.42	74	107605	19.64	ug/l	85
10) 1,1,2-Trichlorotrifluoroet	3.79	101	143981	19.25	ug/l	96
11) Methyl Iodide	3.99	142	147962	20.35	ug/l	91
12) Tert butyl alcohol	4.80	59	103601	92.70	ug/l	95
13) 1,1-Dichloroethene	3.77	96	140827	19.66	ug/l	95
14) Acrolein	3.62	56	119692	91.16	ug/l	91
15) Allyl chloride	4.37	41	271450	18.76	ug/l #	83
16) Acrylonitrile	5.03	53	355943	97.39	ug/l	96
17) Acetone	3.83	43	286891	93.10	ug/l	96
18) Carbon Disulfide	4.11	76	447443	19.18	ug/l	100
19) Methyl Acetate	4.36	43	430622	19.29	ug/l	97
20) Methyl tert-butyl Ether	5.12	73	558305	19.42	ug/l	97
21) Methylene Chloride	4.60	84	171269	19.95	ug/l	97
22) trans-1,2-Dichloroethene	5.12	96	150396	19.41	ug/l	98
23) Diisopropyl ether	6.03	45	591213	19.48	ug/l #	86
24) Vinyl Acetate	5.97	43	963915	95.95	ug/l	96
25) 1,1-Dichloroethane	5.93	63	342326	19.41	ug/l	99
26) 2-Butanone	6.92	43	438230	94.44	ug/l	95
27) 2,2-Dichloropropane	6.92	77	257927	16.86	ug/l	96
28) cis-1,2-Dichloroethene	6.92	96	175806	19.79	ug/l	97
29) Bromochloromethane	7.29	49	142927	20.88	ug/l	98
30) Tetrahydrofuran	7.32	42	287520	89.90	ug/l	90
31) Chloroform	7.46	83	320111	20.09	ug/l	99
32) Cyclohexane	7.77	56	327166	20.29	ug/l #	89
33) 1,1,1-Trichloroethane	7.67	97	284359	20.02	ug/l	96
37) 1,1-Dichloropropene	7.89	75	240301	19.37	ug/l	97
38) Ethyl Acetate	7.02	43	205633	18.84	ug/l	98

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Manual Integrations
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 Quant Title : SW846 8260
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Carbon Tetrachloride	7.89	117	221355	18.98	ug/l	99
40) Methylcyclohexane	9.19	83	288007	19.07	ug/l	98
41) Benzene	8.14	78	707592	19.55	ug/l	100
42) Methacrylonitrile	7.24	41	111715	18.63	ug/l #	87
43) 1,2-Dichloroethane	8.22	62	280221	19.22	ug/l	95
44) Isopropyl Acetate	8.25	43	384672	19.41	ug/l	99
45) Trichloroethene	8.93	130	142736	19.64	ug/l	92
46) 1,2-Dichloropropane	9.22	63	197468	18.97	ug/l	100
47) Dibromomethane	9.31	93	115271	18.86	ug/l	93
48) Bromodichloromethane	9.49	83	250165	19.42	ug/l	97
49) Methyl methacrylate	9.29	41	184729	18.71	ug/l #	86
50) 1,4-Dioxane	9.30	88	42985	371.17	ug/l	95
52) 4-Methyl-2-Pentanone	10.07	43	1012222	96.60	ug/l	100
53) Toluene	10.26	92	413332	19.50	ug/l	96
54) t-1,3-Dichloropropene	10.47	75	266912	18.45	ug/l	100
55) cis-1,3-Dichloropropene	9.93	75	290699	18.47	ug/l	91
56) 1,1,2-Trichloroethane	10.66	97	158863	19.94	ug/l	99
57) Ethyl methacrylate	10.52	69	256169	19.08	ug/l #	91
58) 1,3-Dichloropropane	10.81	76	288246	19.49	ug/l	100
59) 2-Chloroethyl Vinyl ether	9.78	63	618012	100.26	ug/l	98
60) 2-Hexanone	10.84	43	677404	94.95	ug/l	99
61) Dibromochloromethane	11.00	129	156506	19.24	ug/l	99
62) 1,2-Dibromoethane	11.11	107	151502	19.35	ug/l	99
65) Tetrachloroethene	10.74	164	112407	19.46	ug/l	94
66) Chlorobenzene	11.54	112	402367	18.87	ug/l	98
67) 1,1,1,2-Tetrachloroethane	11.62	131	141449	19.44	ug/l	98
68) Ethyl Benzene	11.62	91	769167	19.02	ug/l	99
69) m/p-Xylenes	11.73	106	539005	38.63	ug/l	91
70) o-Xylene	12.06	106	273470	19.55	ug/l	94
71) Styrene	12.08	104	437228	19.36	ug/l	95
72) Bromoform	12.24	173	95844	18.94	ug/l #	98
74) Isopropylbenzene	12.36	105	716171	19.13	ug/l	99
75) N-amyl acetate	12.17	43	319170	19.10	ug/l	99
76) 1,1,2,2-Tetrachloroethane	12.61	83	209118	19.54	ug/l	97
77) 1,2,3-Trichloropropane	12.66	75	181179m	17.64	ug/l	
78) Bromobenzene	12.64	156	139709	19.03	ug/l	91
79) n-propylbenzene	12.71	91	842881	19.14	ug/l	98
80) 2-Chlorotoluene	12.79	91	508293	19.22	ug/l	97
81) 1,3,5-Trimethylbenzene	12.85	105	570817	18.98	ug/l	94
82) trans-1,4-Dichloro-2-buten	12.40	75	75804	18.13	ug/l	89
83) 4-Chlorotoluene	12.89	91	498235	19.17	ug/l	97
84) tert-Butylbenzene	13.11	119	465553	18.76	ug/l	90
85) 1,2,4-Trimethylbenzene	13.16	105	574513	19.02	ug/l	96
86) sec-Butylbenzene	13.29	105	696991	19.17	ug/l	99
87) p-Isopropyltoluene	13.41	119	521803	18.63	ug/l	94
88) 1,3-Dichlorobenzene	13.41	146	242129	19.27	ug/l	96
89) 1,4-Dichlorobenzene	13.49	146	240837	18.93	ug/l	95
90) n-Butylbenzene	13.74	91	512823	18.87	ug/l	98
91) Hexachloroethane	14.01	117	113756	18.56	ug/l	93
92) 1,2-Dichlorobenzene	13.78	146	244757	19.71	ug/l	96

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ClientSampleId :
VN0915WBSD01

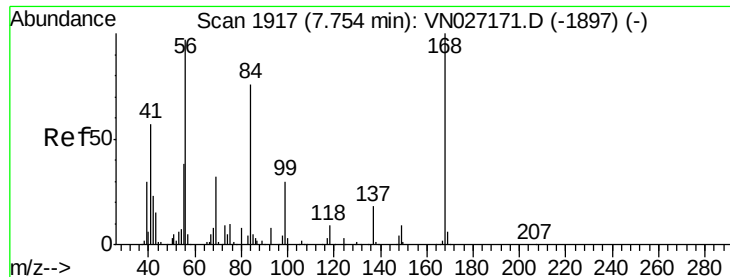
Manual Integrations
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9/16/2015 11:47:44 AM

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Quant Method : W:\HPCHEM1\MSVOA_N\METHODS\82N091515W.M
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QLast Update : Tue Sep 15 21:12:09 2015
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2-Dibromo-3-Chloropropan	14.40	75	41771	18.67	ug/l	89
94) 1,2,4-Trichlorobenzene	15.05	180	128905	19.22	ug/l	98
95) Hexachlorobutadiene	15.16	225	67386	19.08	ug/l	99
96) Naphthalene	15.29	128	379756	19.31	ug/l	100
97) 1,2,3-Trichlorobenzene	15.47	180	130137	19.52	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.75 min Scan# 1917

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD01

Tot Ion:168 Resp: 557817

Ion Ratio Lower Upper

168 100

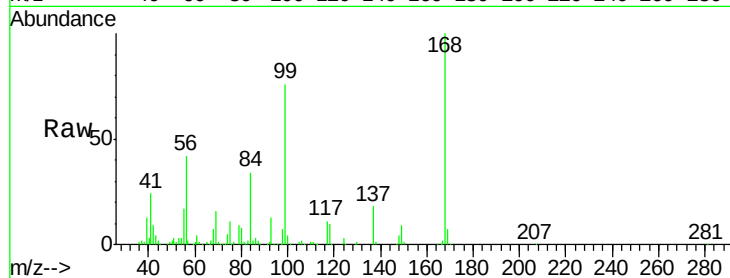
99 75.7 50.4 75.6#

Manual Integrations

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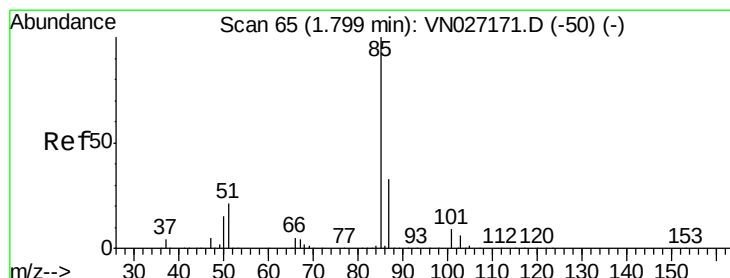
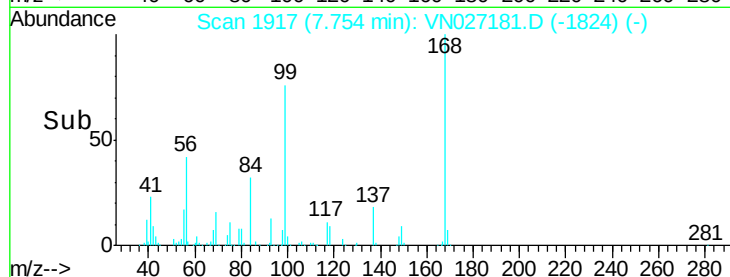
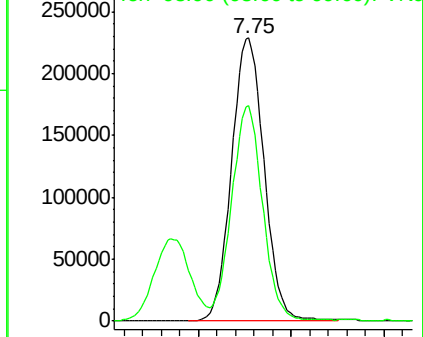
MMDadoda

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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 19.86 ug/l

RT: 1.80 min Scan# 65

Delta R.T. 0.00 min

Lab File: VN027181.D

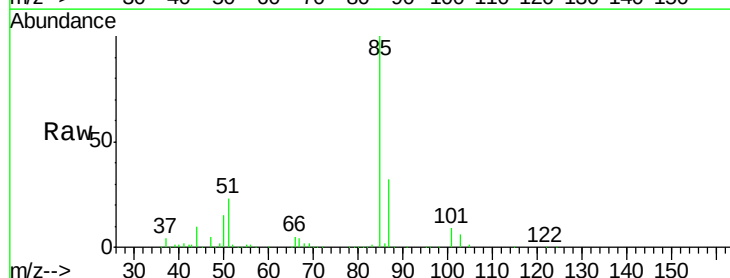
Acq: 15 Sep 2015 23:47

Tgt Ion: 85 Resp: 132551

Ion Ratio Lower Upper

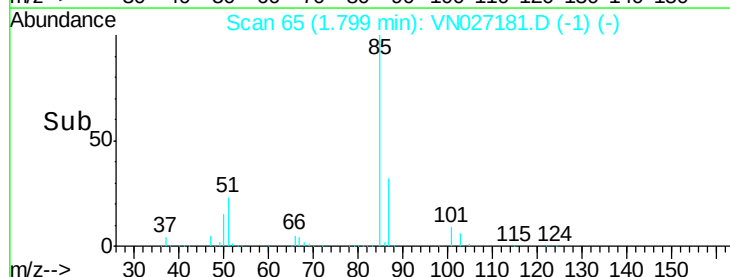
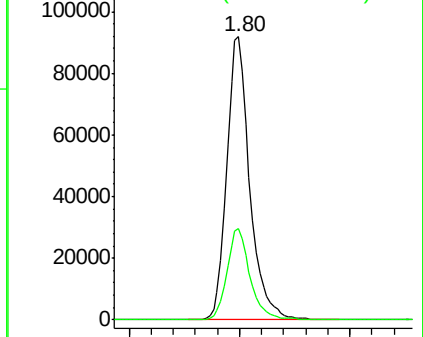
85 100

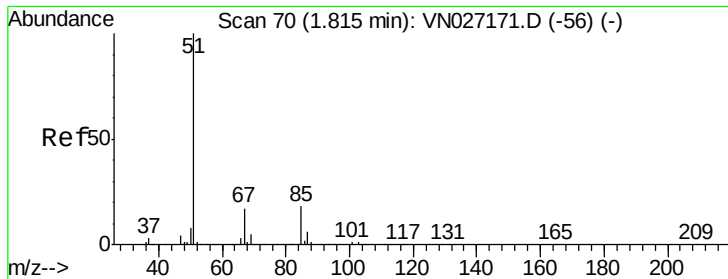
87 32.1 16.3 48.8



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chlorodifluoromethane

Concen: 20.93 ug/l

RT: 1.82 min Scan# 70

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Tot Ion: 51 Resp: 161620

Ion Ratio Lower Upper

51 100

67 17.6 12.2 18.2

Instrument :

MSVOA_N

ClientSampled :

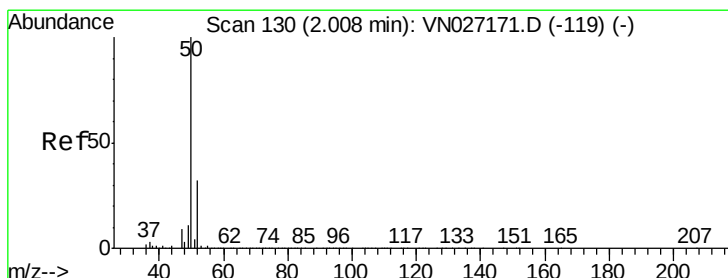
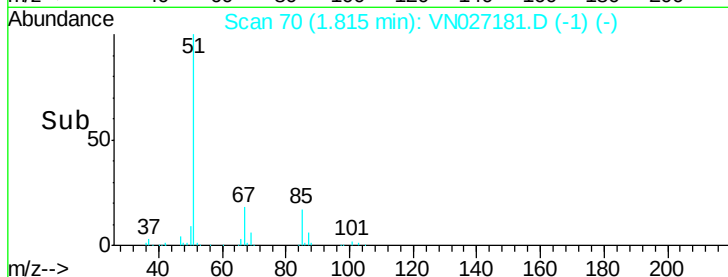
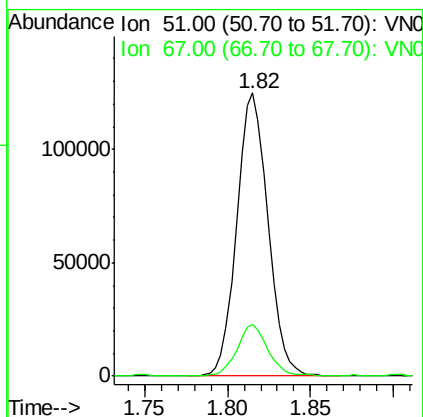
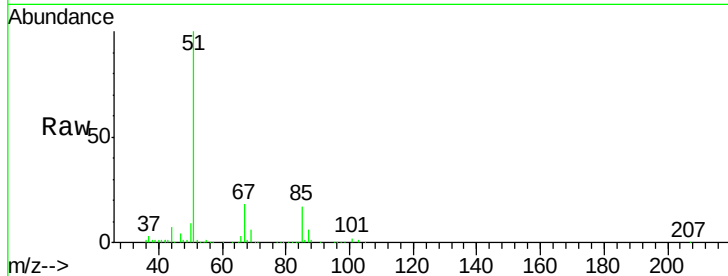
VN0915WBSD01

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#4

Chloromethane

Concen: 21.02 ug/l

RT: 2.01 min Scan# 130

Delta R.T. 0.00 min

Lab File: VN027181.D

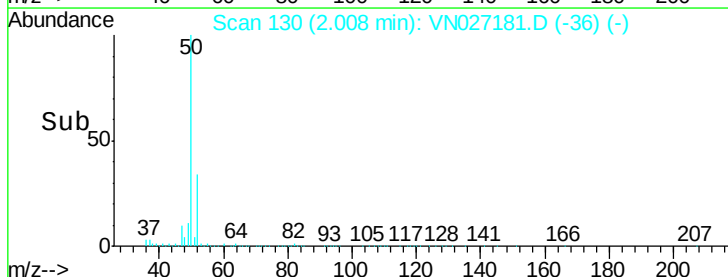
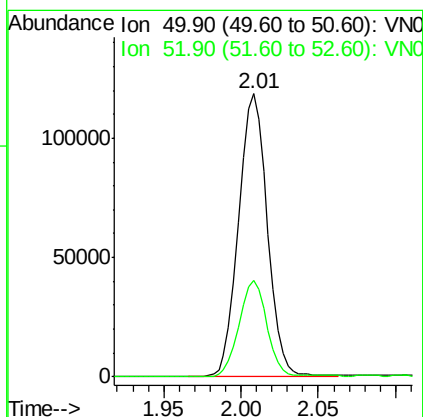
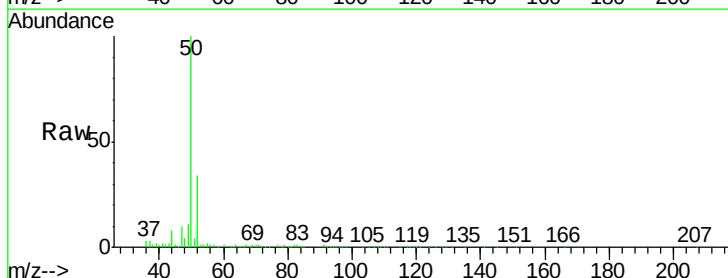
Acq: 15 Sep 2015 23:47

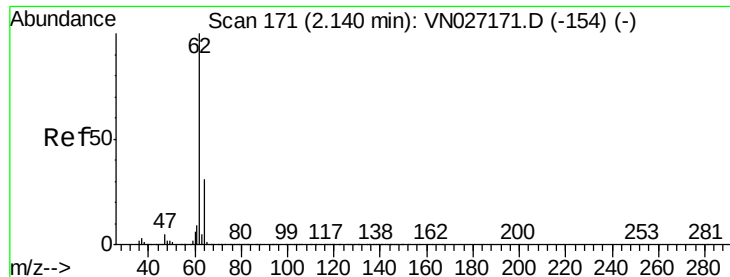
Tgt Ion: 50 Resp: 152205

Ion Ratio Lower Upper

50 100

52 34.0 25.9 38.9





#5

Vinyl Chloride

Concen: 19.98 ug/l

RT: 2.14 min Scan# 171

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD01

Tot Ion: 62 Resp: 157467

Ion Ratio Lower Upper

62 100

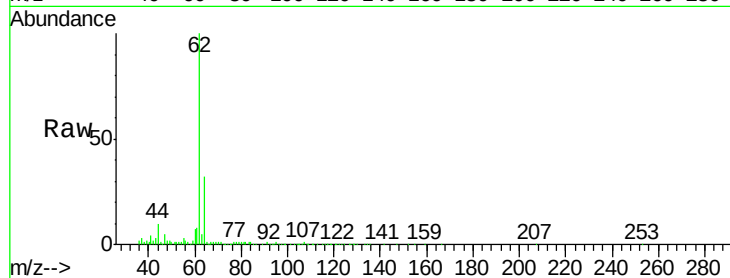
64 31.9 25.9 38.9

Manual Integrations

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9/16/2015 11:47:44 AM



Abundance Ion 61.90 (61.60 to 62.60): VNC

Ion 63.90 (63.60 to 64.60): VNC

2.14

120000

100000

80000

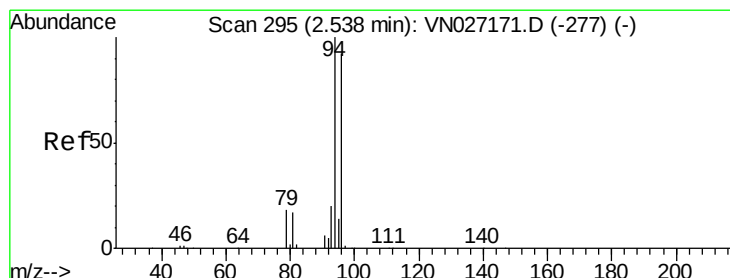
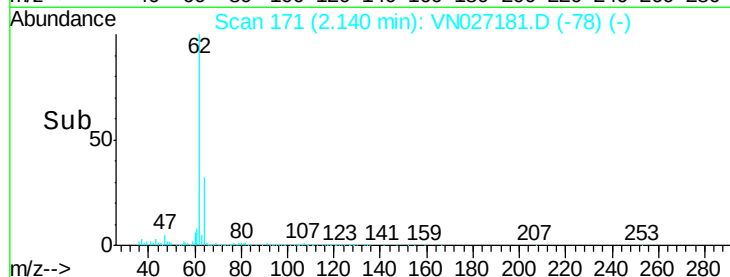
60000

40000

20000

0

Time-->



#6

Bromomethane

Concen: 21.32 ug/l

RT: 2.54 min Scan# 296

Delta R.T. 0.00 min

Lab File: VN027181.D

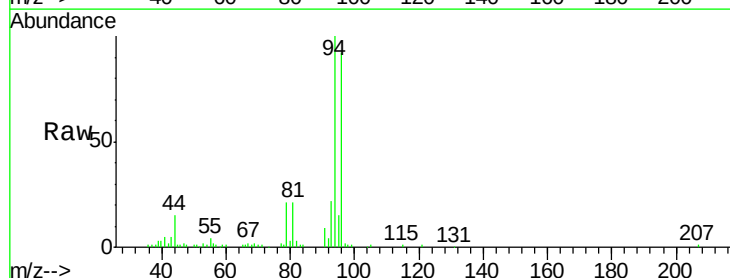
Acq: 15 Sep 2015 23:47

Tgt Ion: 94 Resp: 78847

Ion Ratio Lower Upper

94 100

96 91.8 73.4 110.2



Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC

2.54

40000

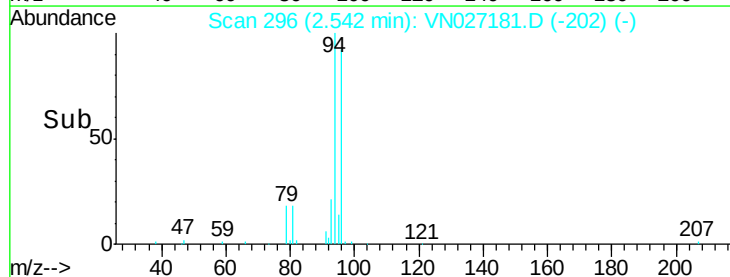
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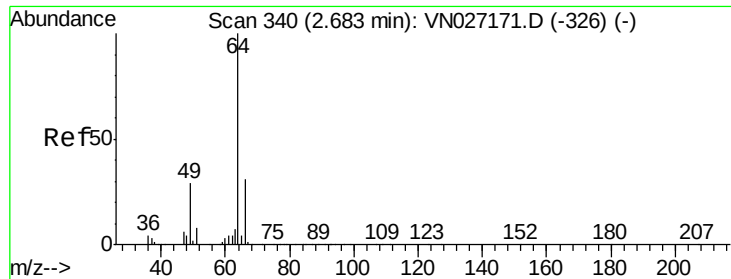
20000

10000

0

Time-->





#7

Chloroethane

Concen: 19.33 ug/l

RT: 2.69 min Scan# 341

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD01

Tot Ion: 64 Resp: 103581

Ion Ratio Lower Upper

64 100

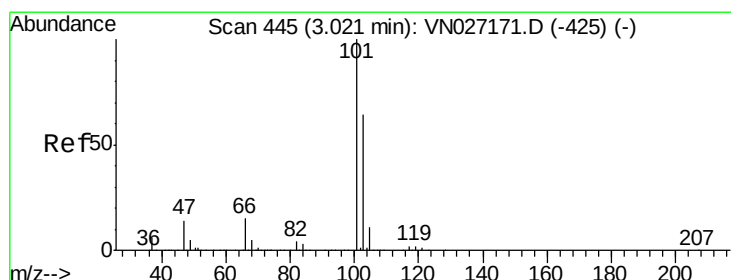
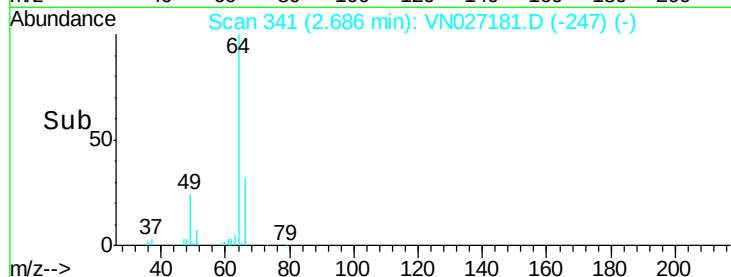
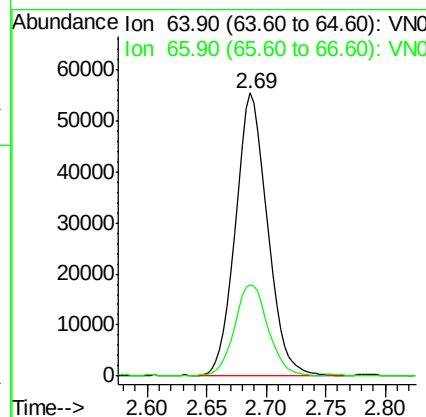
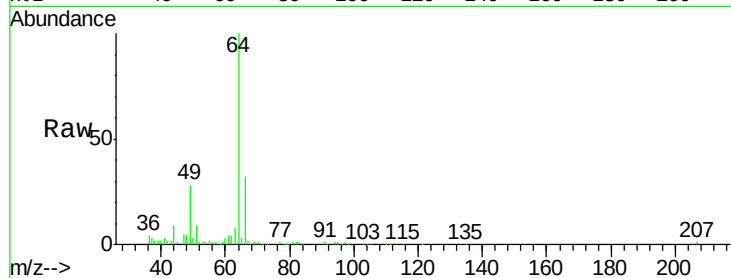
66 31.9 25.5 38.3

Manual Integrations

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#8

Trichlorofluoromethane

Concen: 19.86 ug/l

RT: 3.02 min Scan# 446

Delta R.T. 0.00 min

Lab File: VN027181.D

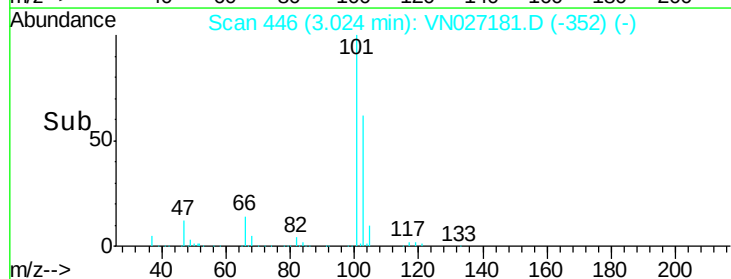
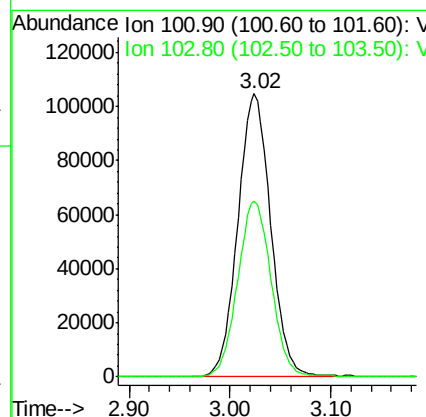
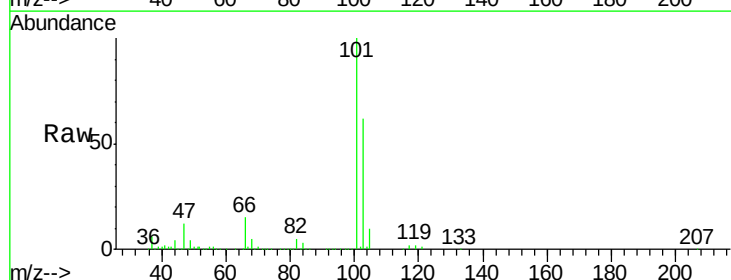
Acq: 15 Sep 2015 23:47

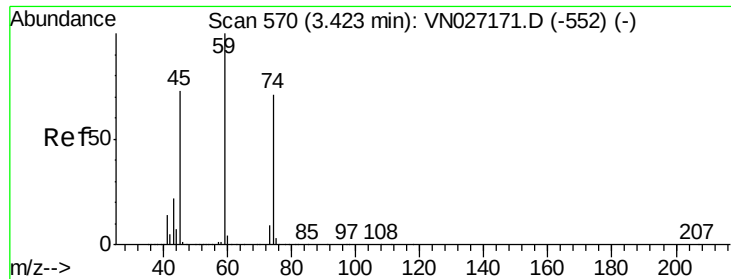
Tgt Ion: 101 Resp: 236483

Ion Ratio Lower Upper

101 100

103 62.2 52.6 79.0





#9

Diethyl Ether

Concen: 19.64 ug/l

RT: 3.42 min Scan# 570

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD01

Tot Ion: 74 Resp: 107605

Ion Ratio Lower Upper

74 100

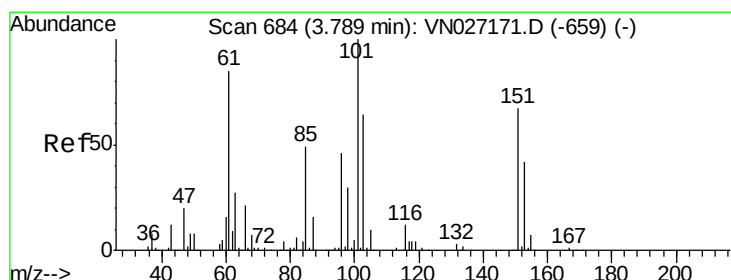
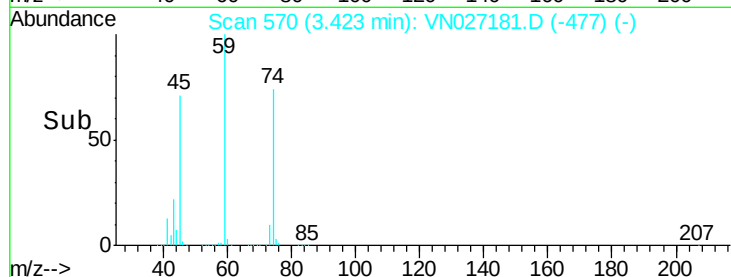
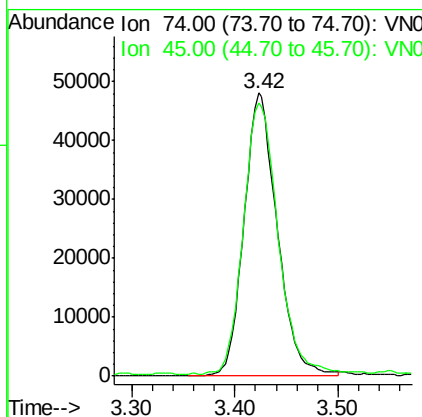
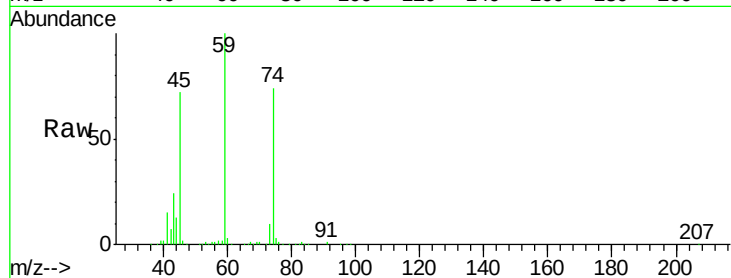
45 99.7 58.1 174.3

Manual Integrations

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9/16/2015 11:47:44 AM



#10

1,1,2-Trichlorotrifluoroethane

Concen: 19.25 ug/l

RT: 3.79 min Scan# 685

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

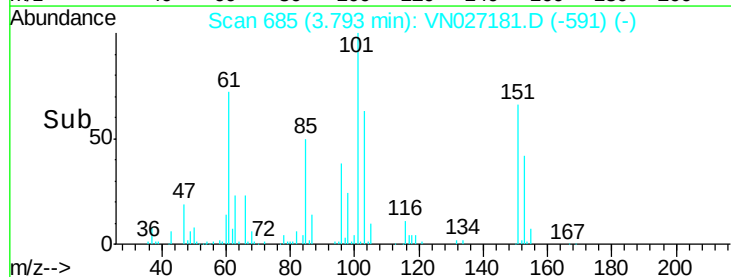
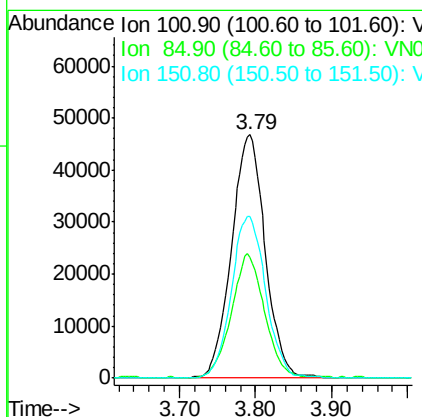
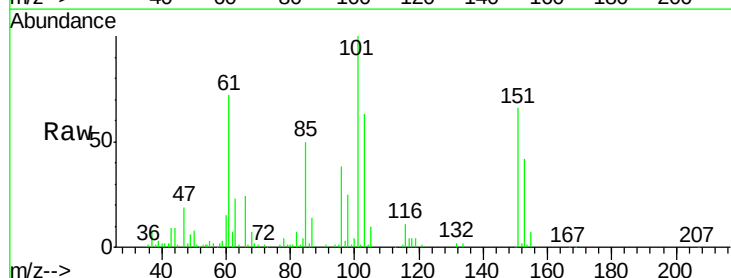
Tgt Ion: 101 Resp: 143981

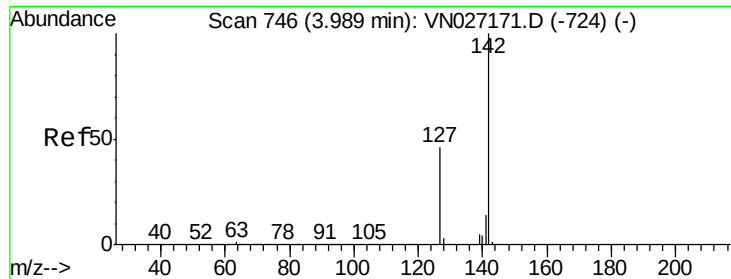
Ion Ratio Lower Upper

101 100

85 50.3 37.4 56.0

151 67.7 55.9 83.9





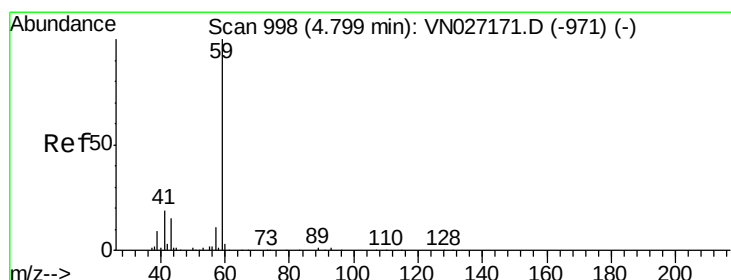
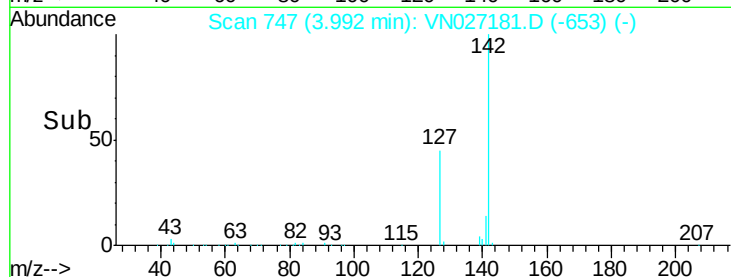
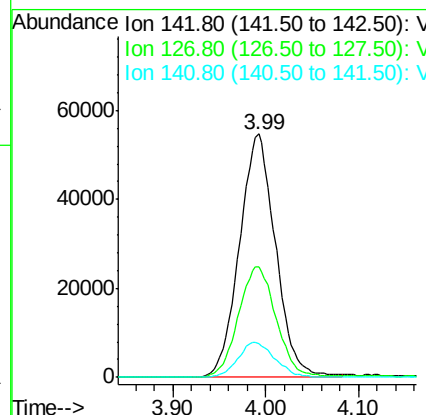
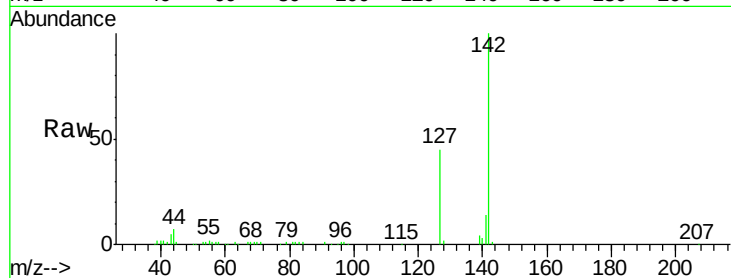
#11
Methvl Iodide
Concen: 20.35 ug/l
RT: 3.99 min Scan# 747
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion	Ratio	Lower	Upper
142	100		
127	47.2	32.3	48.5
141	14.6	11.2	16.8

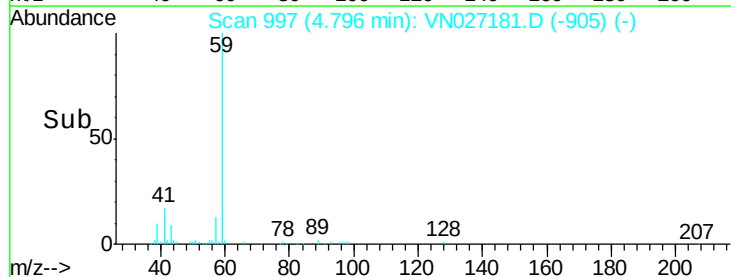
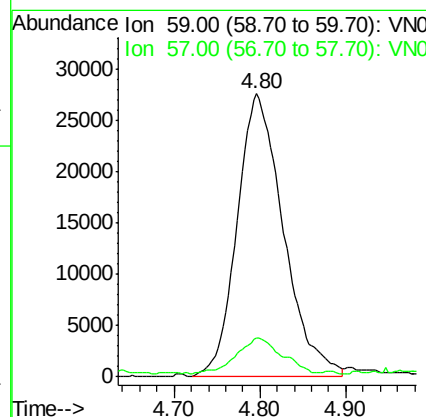
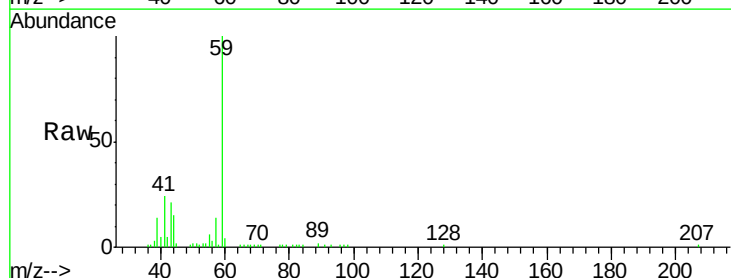
Manual Integrations
APPROVED

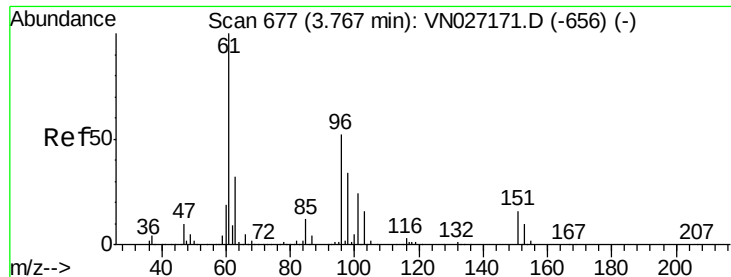
MMDadoda
9/16/2015 11:47:44 AM



#12
Tert butyl alcohol
Concen: 92.70 ug/l
RT: 4.80 min Scan# 997
Delta R.T. -0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Lower	Upper
59	100		
57	11.2	7.6	11.4





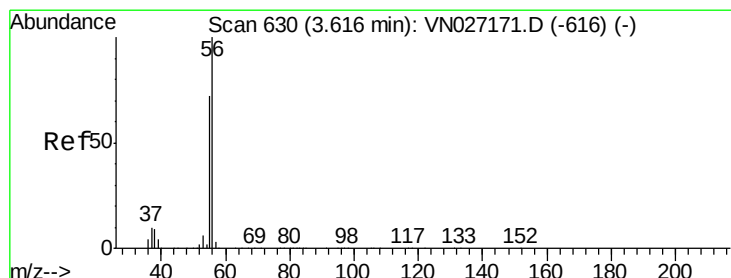
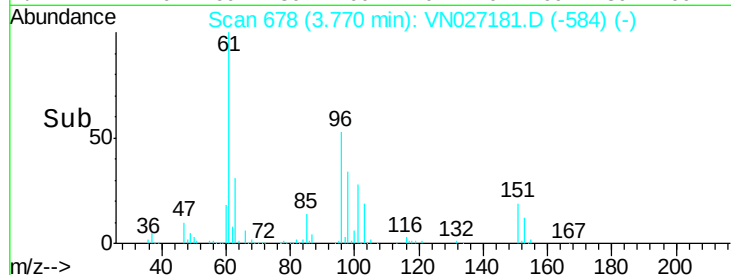
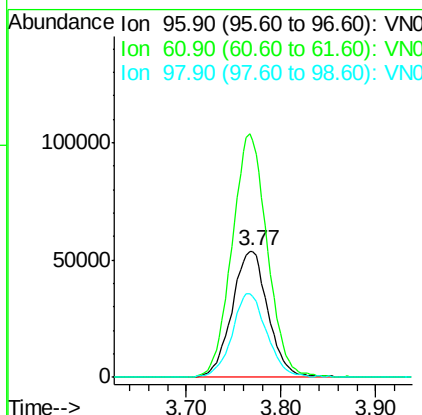
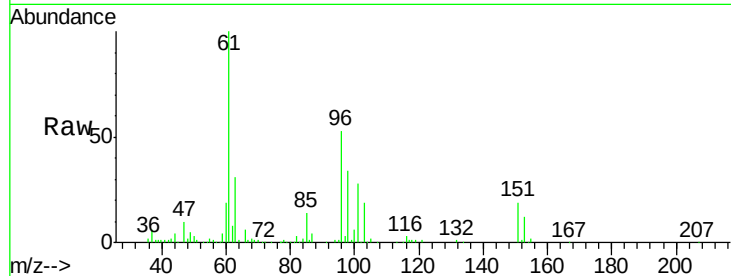
#13
 1,1-Dichloroethene
 Concen: 19.66 ug/l
 RT: 3.77 min Scan# 678
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD01

Tot Ion	Ratio	Lower	Upper
96	100		
61	188.0	143.8	215.8
98	64.1	50.3	75.5

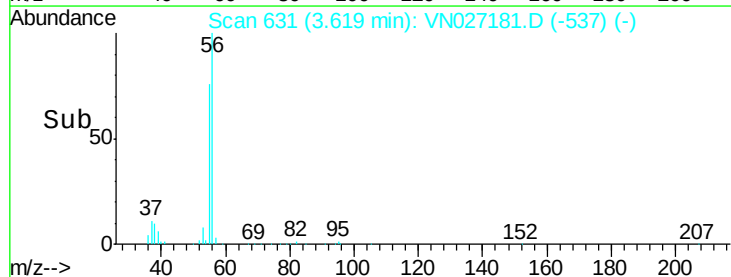
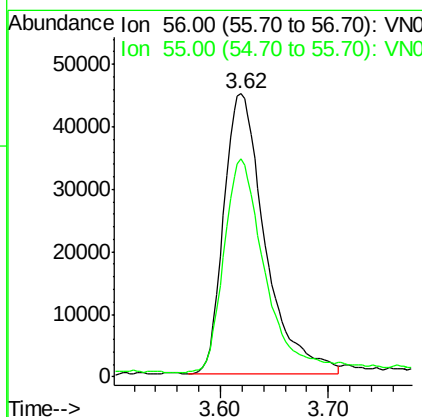
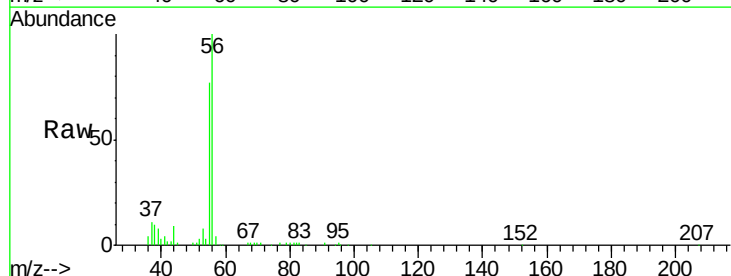
Manual Integrations
 APPROVED

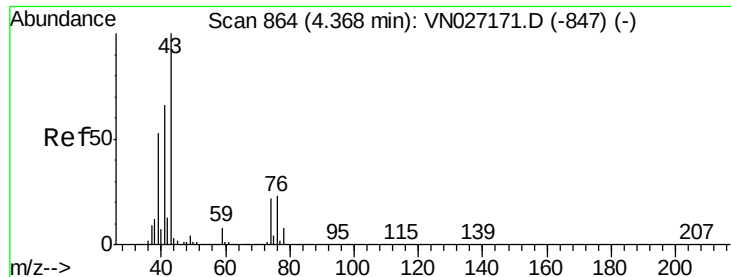
MMDadoda
 9/16/2015 11:47:44 AM



#14
 Acrolein
 Concen: 91.16 ug/l
 RT: 3.62 min Scan# 631
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Lower	Upper
56	100		
55	76.6	55.7	83.5





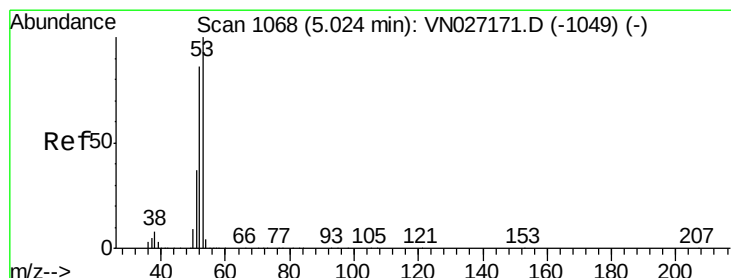
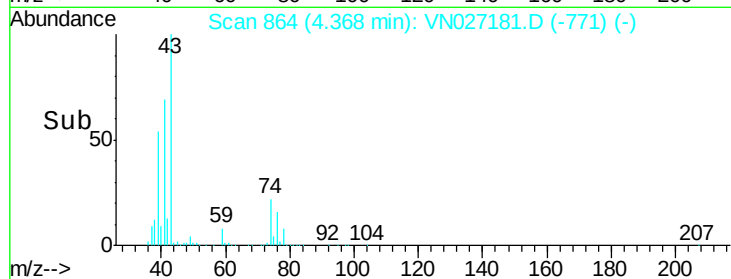
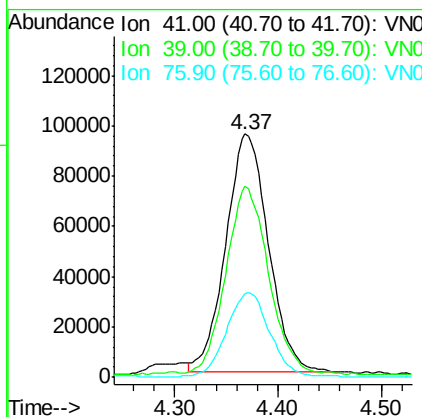
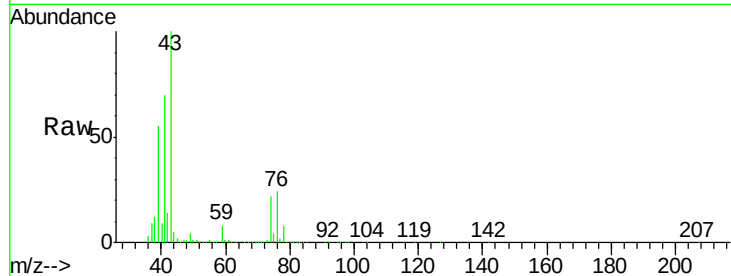
#15
Allvl chloride
Concen: 18.76 ug/l
RT: 4.37 min Scan# 864
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion	Ratio	Lower	Upper
41	100		
39	78.7	49.7	74.5#
76	35.4	24.8	37.2

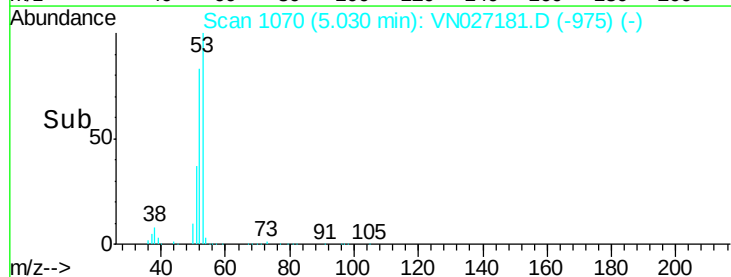
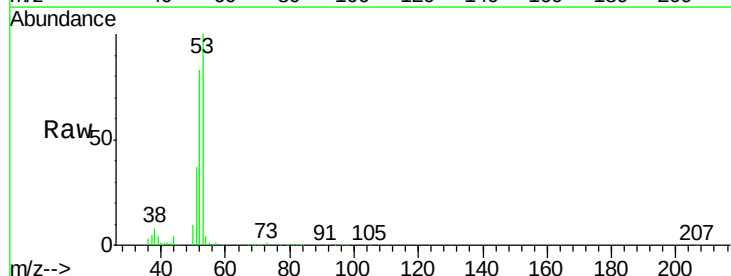
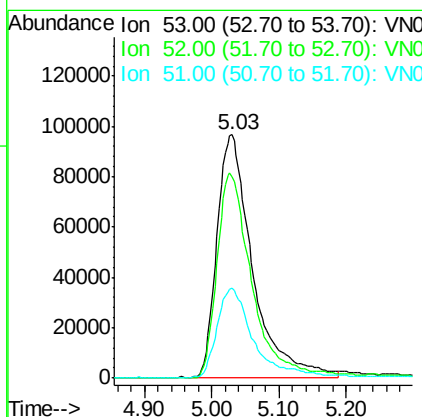
Manual Integrations
APPROVED

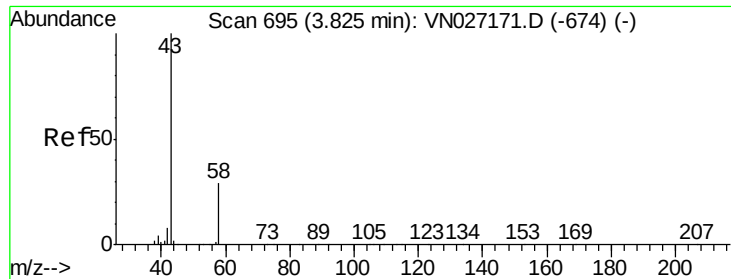
MMDadoda
9/16/2015 11:47:44 AM



#16
Acrylonitrile
Concen: 97.39 ug/l
RT: 5.03 min Scan# 1070
Delta R.T. 0.01 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Lower	Upper
53	100		
52	81.2	66.9	100.3
51	37.8	27.4	41.0





#17

Acetone

Concen: 93.10 ug/l

RT: 3.83 min Scan# 696

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD01

Tot Ion: 43 Resp: 286891

Ion Ratio Lower Upper

43 100

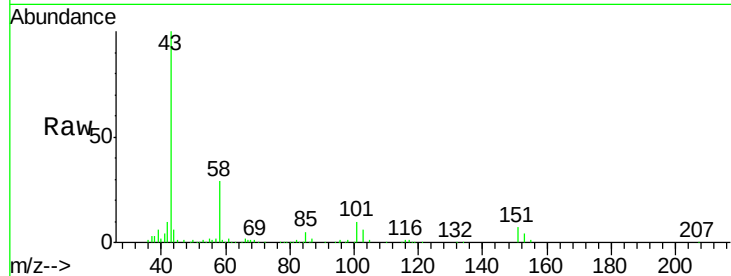
58 29.4 25.4 38.0

Manual Integrations

APPROVED

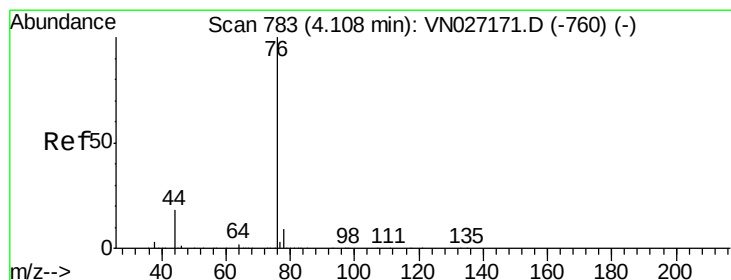
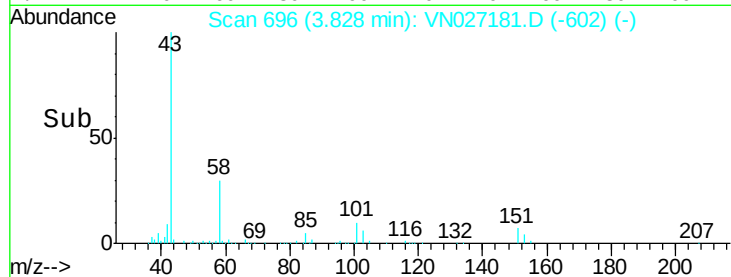
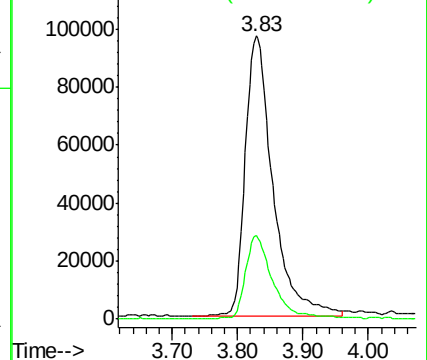
MMDadoda

9/16/2015 11:47:44 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#18

Carbon Disulfide

Concen: 19.18 ug/l

RT: 4.11 min Scan# 783

Delta R.T. 0.00 min

Lab File: VN027181.D

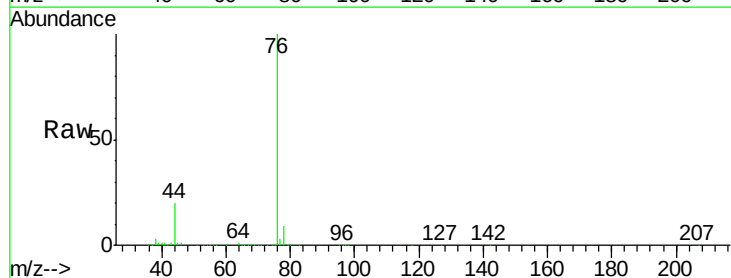
Acq: 15 Sep 2015 23:47

Tgt Ion: 76 Resp: 447443

Ion Ratio Lower Upper

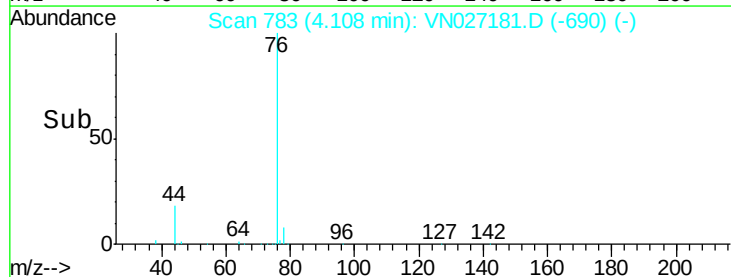
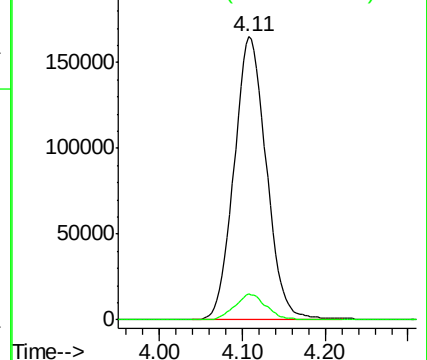
76 100

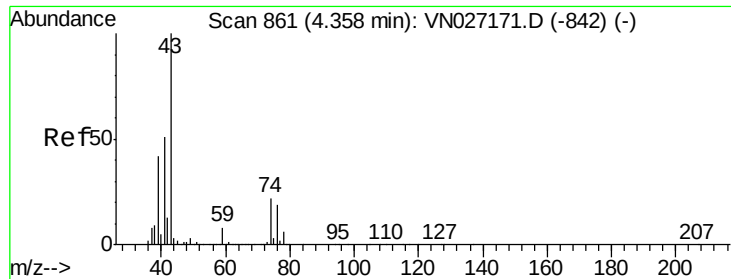
78 8.9 7.1 10.7



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0





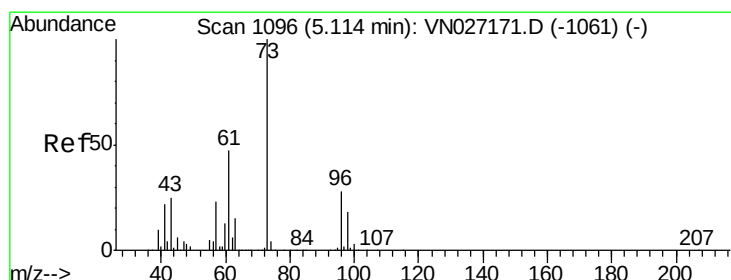
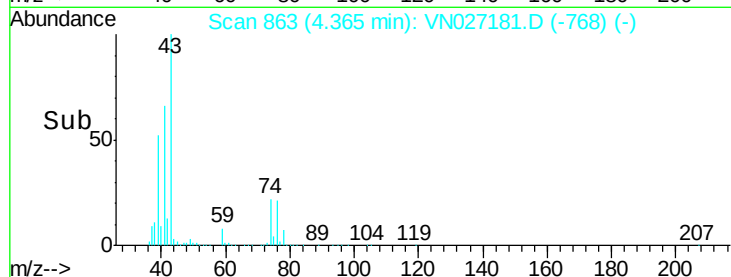
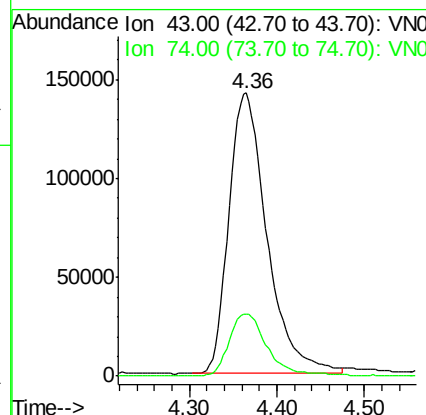
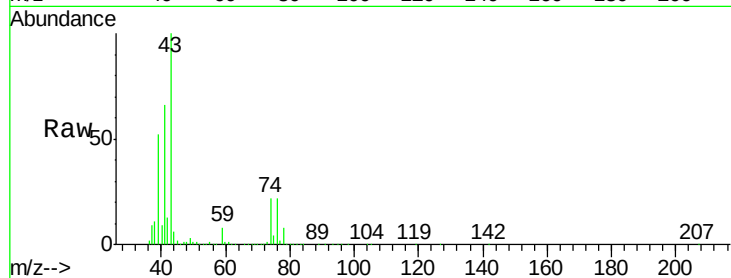
#19
Methyl Acetate
Concen: 19.29 ug/l
RT: 4.36 min Scan# 863
Delta R.T. 0.01 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion	43	Resp	430622
Ion Ratio	100	Lower	Upper
74	21.7	16.2	24.2

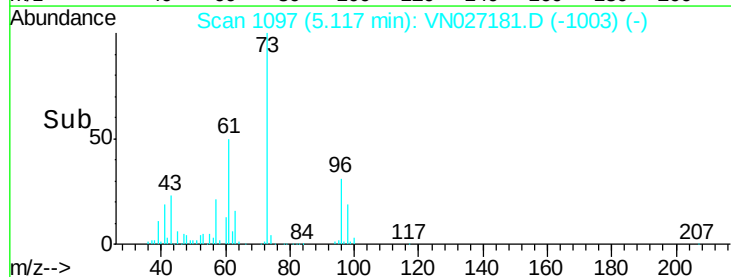
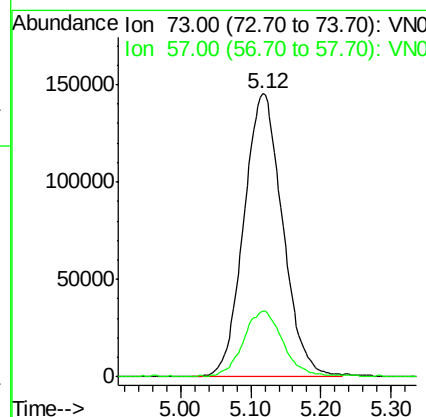
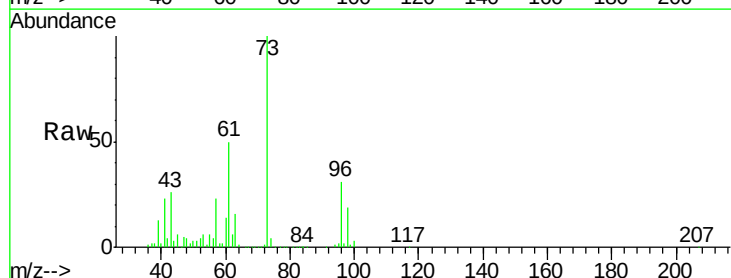
Manual Integrations
APPROVED

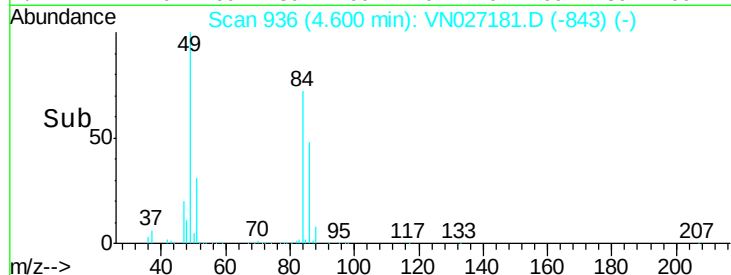
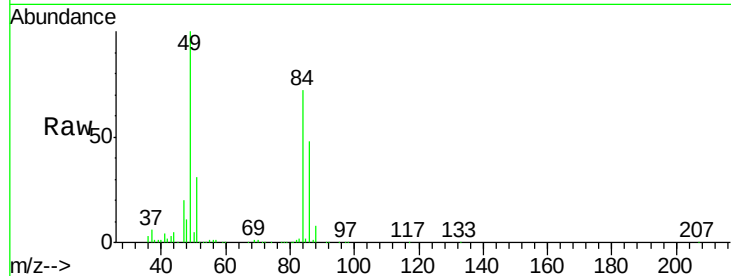
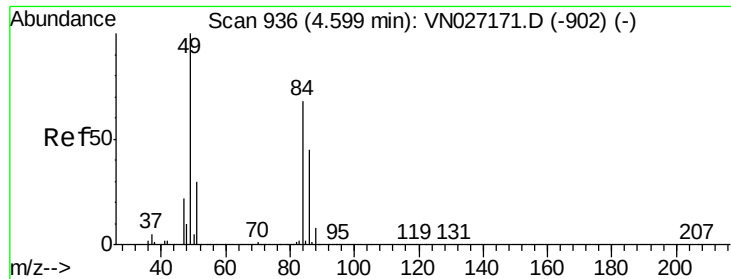
MMDadoda
9/16/2015 11:47:44 AM



#20
Methyl tert-butyl Ether
Concen: 19.42 ug/l
RT: 5.12 min Scan# 1097
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

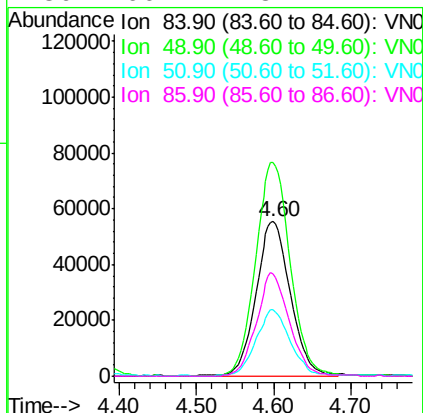
Tgt Ion	73	Resp	558305
Ion Ratio	100	Lower	Upper
57	23.0	19.8	29.6





#21
Methylene Chloride
Concen: 19.95 ug/l
RT: 4.60 min Scan# 936
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

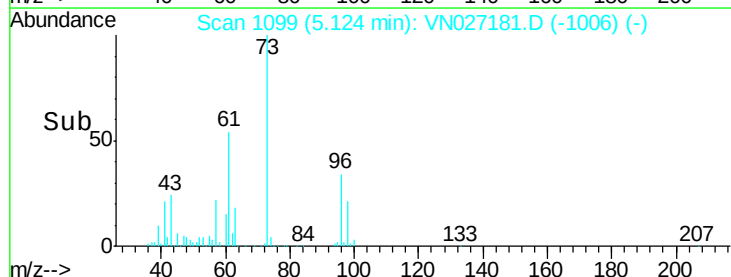
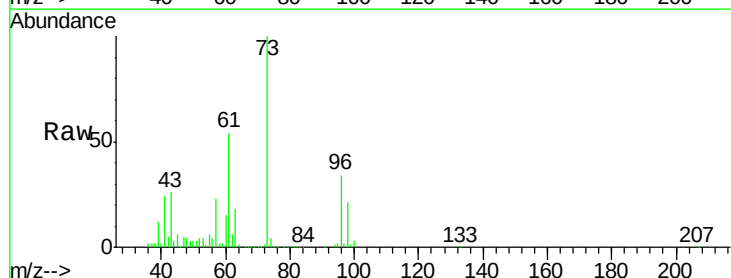
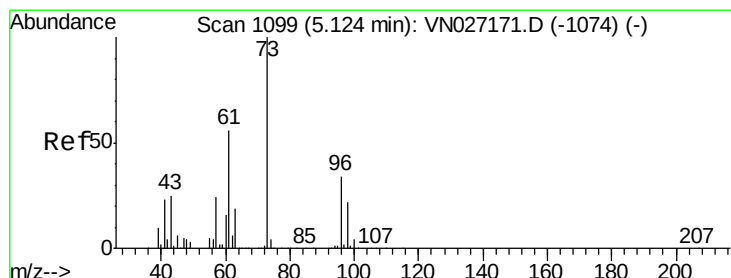
Tot Ion:	84	Resp:	171269
Ion	Ratio	Lower	Upper
84	100		
49	138.3	112.3	168.5
51	42.9	33.8	50.8
86	66.7	48.2	72.4



Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

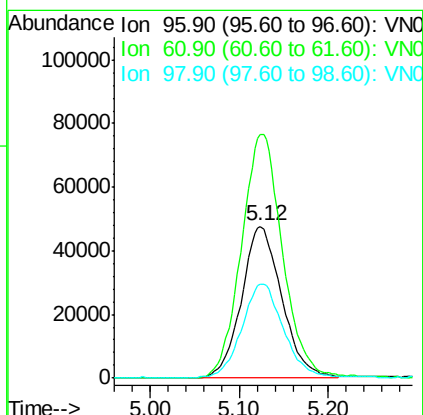
Manual Integrations
APPROVED

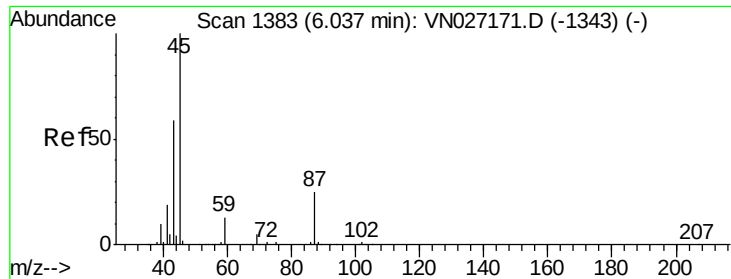
MMDadoda
9/16/2015 11:47:44 AM



#22
trans-1,2-Dichloroethene
Concen: 19.41 ug/l
RT: 5.12 min Scan# 1099
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion:	96	Resp:	150396
Ion	Ratio	Lower	Upper
96	100		
61	160.2	126.6	189.8
98	61.6	47.4	71.2





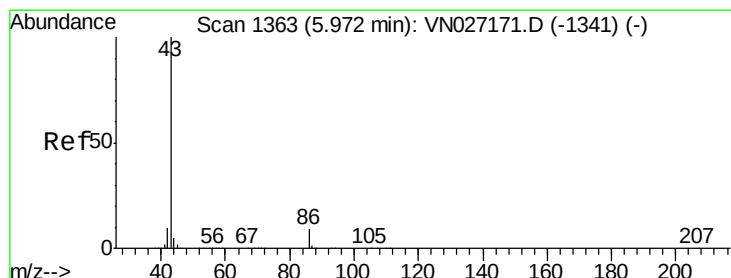
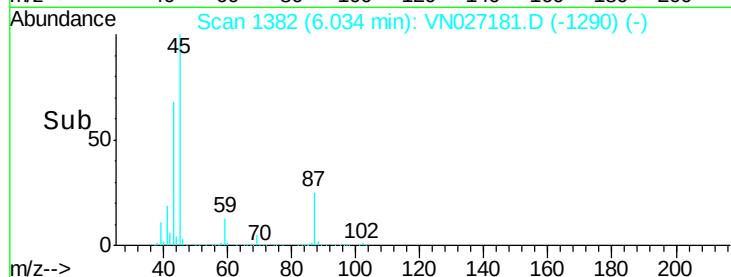
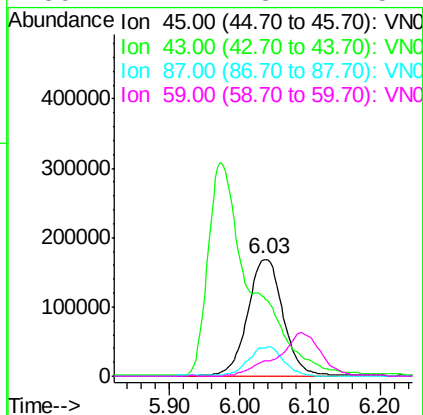
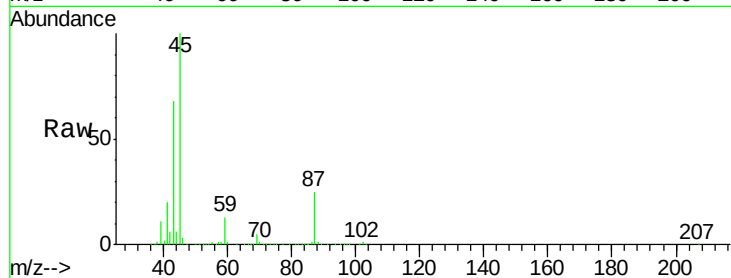
#23
Diisopropyl ether
Concen: 19.48 ug/l
RT: 6.03 min Scan# 1382
Delta R.T. -0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion	Ion	Ratio	Lower	Upper
45	100			
43	65.6	41.0	61.6#	
87	24.2	17.5	26.3	
59	12.4	8.7	13.1	

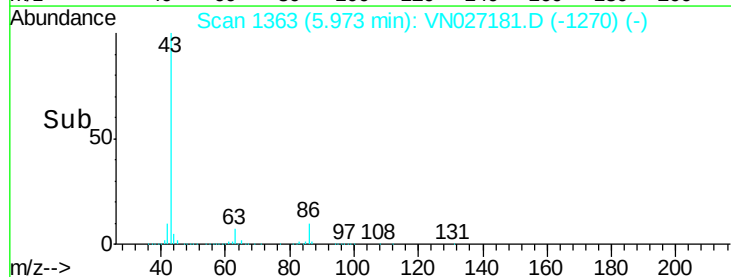
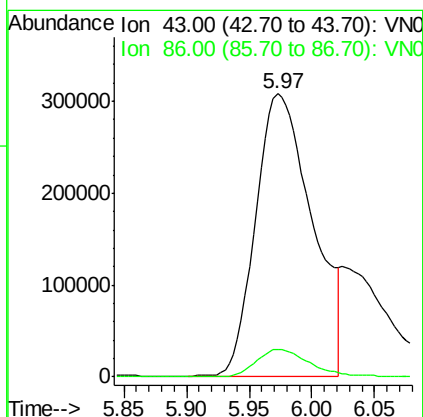
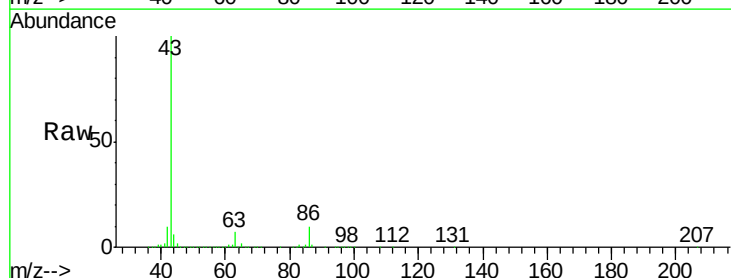
Manual Integrations
APPROVED

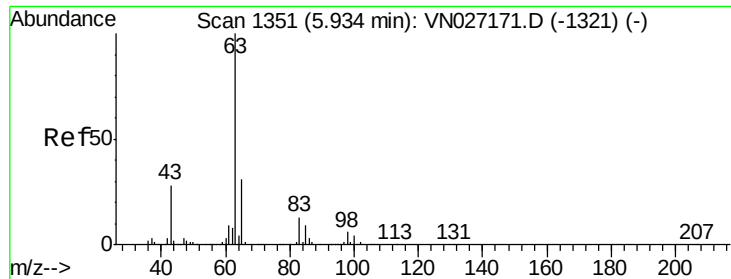
MMDadoda
9/16/2015 11:47:44 AM



#24
Vinyl Acetate
Concen: 95.95 ug/l
RT: 5.97 min Scan# 1363
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion	Ion	Ratio	Lower	Upper
43	100			
86	9.9	6.9	10.3	





#25

1,1-Dichloroethane

Concen: 19.41 ug/l

RT: 5.93 min Scan# 1351

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

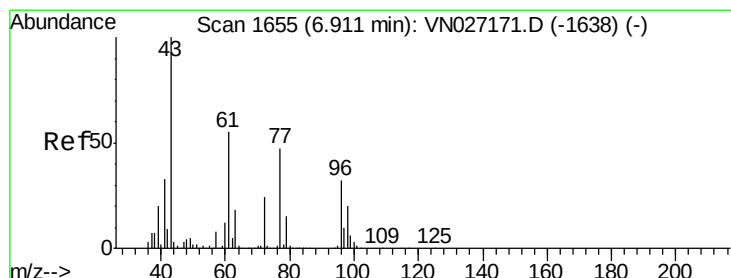
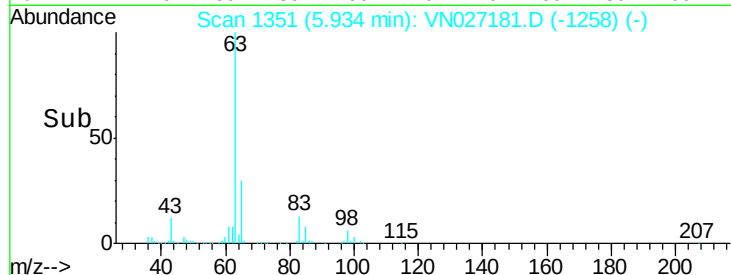
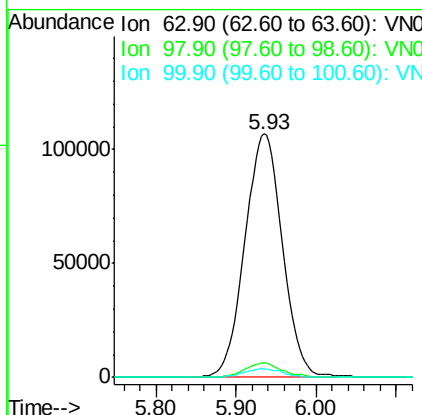
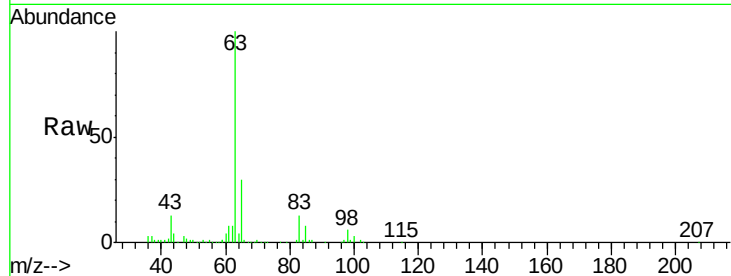
ClientSampleId :

VN0915WBSD01

Tot Ion	Ratio	Lower	Upper
63	100		
98	5.8	2.8	8.3
100	3.5	1.7	5.0

Manual Integrations
APPROVED

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9/16/2015 11:47:44 AM



#26

2-Butanone

Concen: 94.44 ug/l

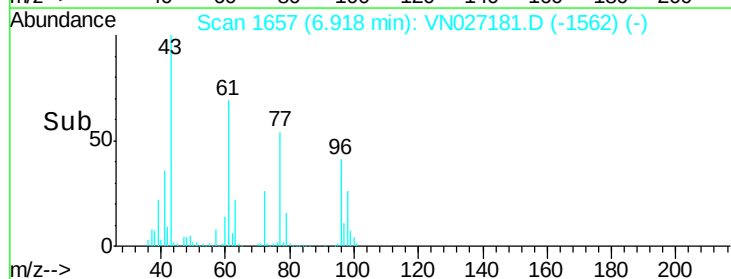
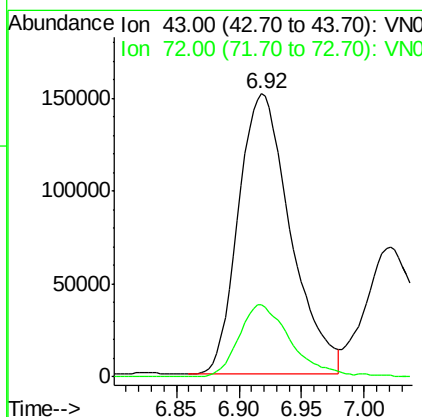
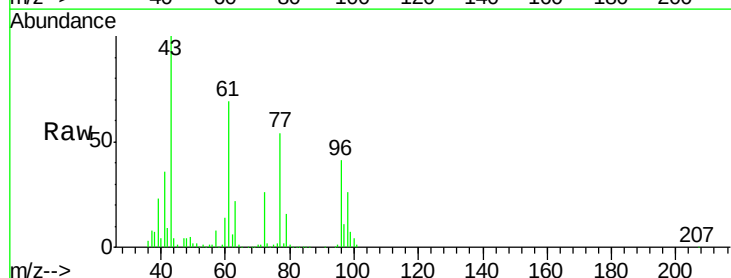
RT: 6.92 min Scan# 1657

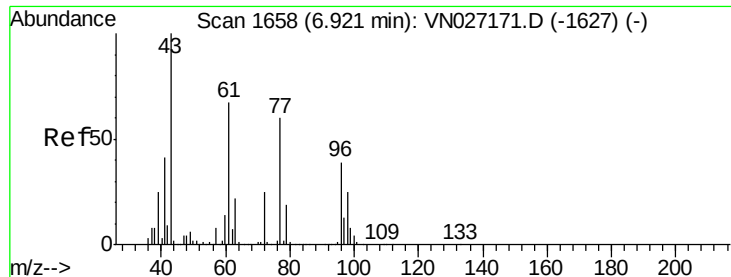
Delta R.T. 0.01 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Lower	Upper
43	100		
72	25.9	18.8	28.2





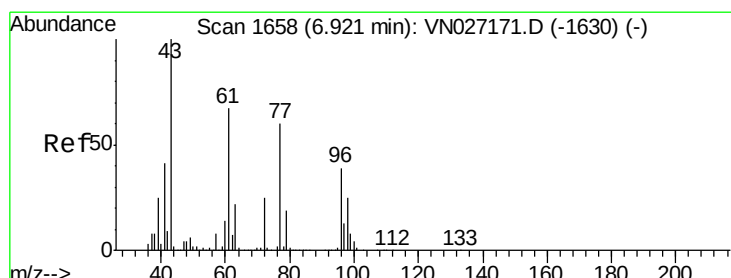
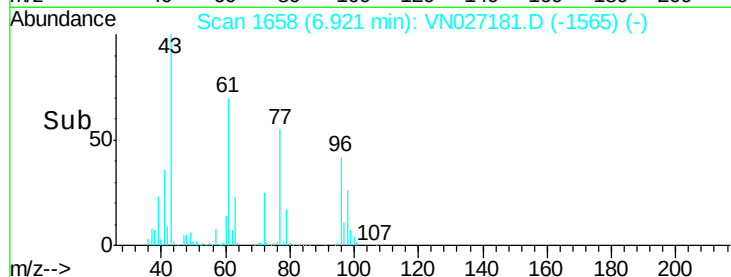
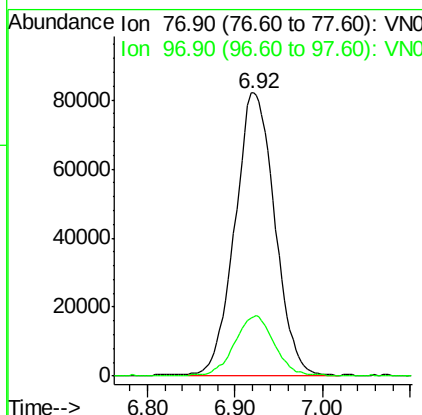
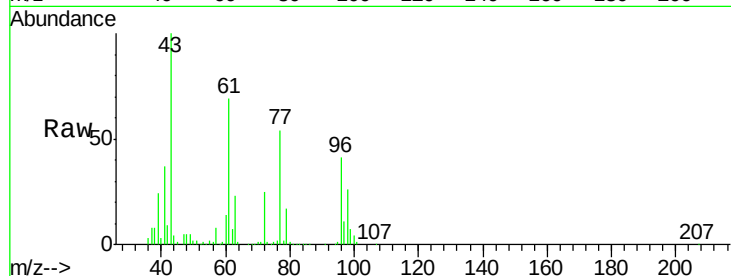
#27
 2,2-Dichloropropane
 Concen: 16.86 ug/l
 RT: 6.92 min Scan# 1658
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
77	100	257927		
97	21.6	11.8	35.3	

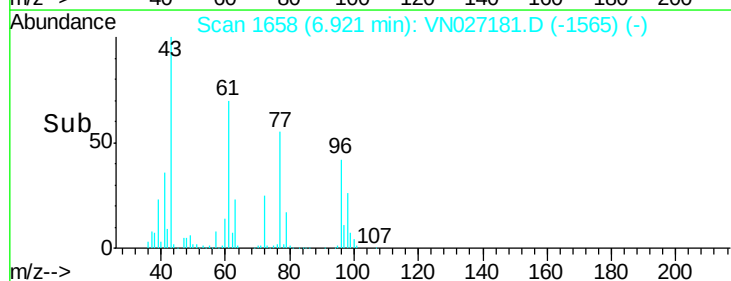
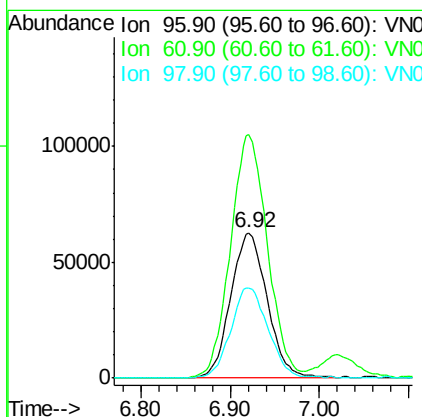
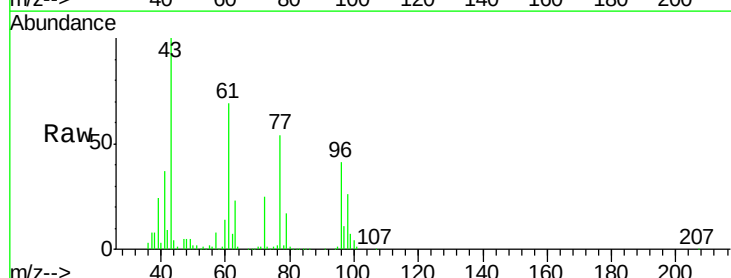
Manual Integrations
 APPROVED

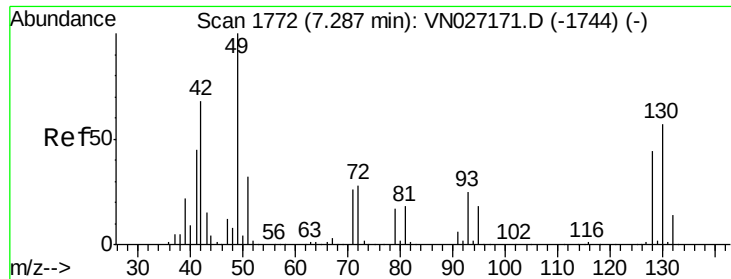
MMDadoda
 9/16/2015 11:47:44 AM



#28
 cis-1,2-Dichloroethene
 Concen: 19.79 ug/l
 RT: 6.92 min Scan# 1658
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	175806		
61	169.7	0.0	329.2	
98	63.8	0.0	126.0	





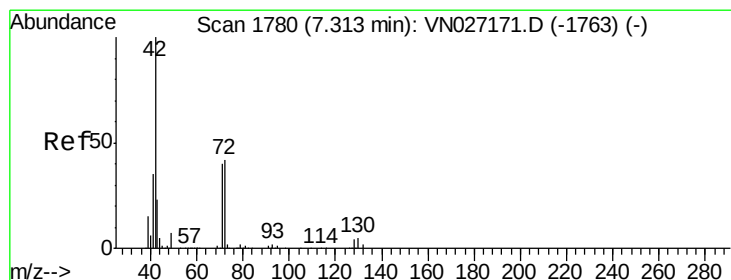
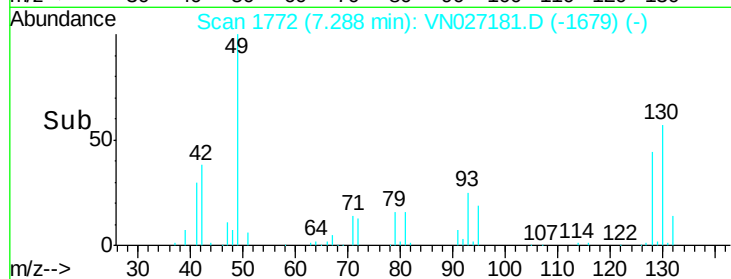
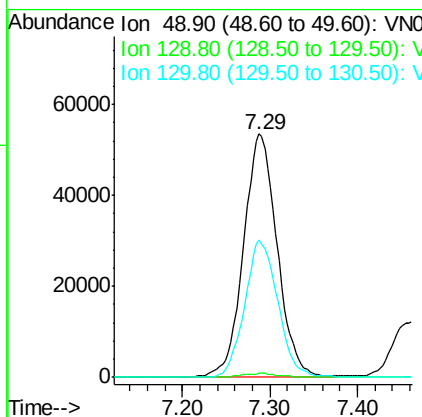
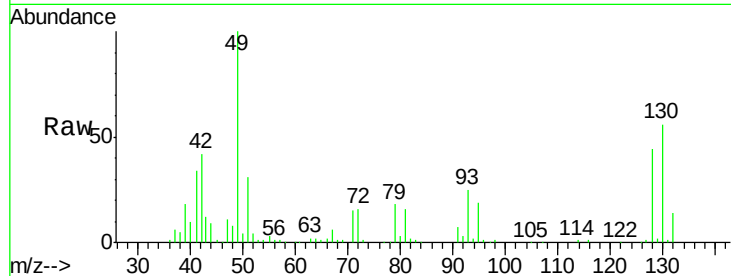
#29
Bromochloromethane
Concen: 20.88 ug/l
RT: 7.29 min Scan# 1772
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion	Ratio	Lower	Upper
49	100		
129	1.6	0.0	3.2
130	55.5	43.2	64.8

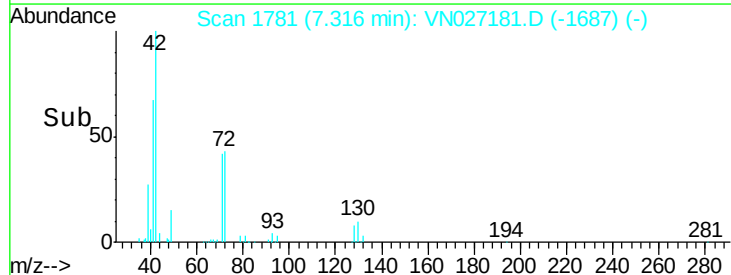
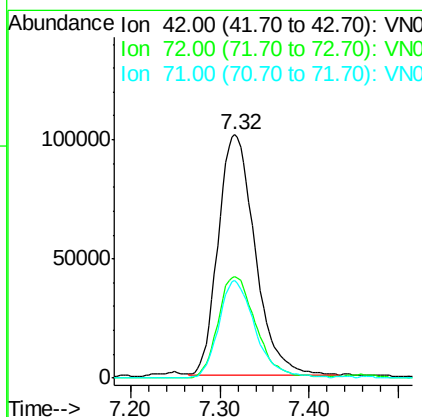
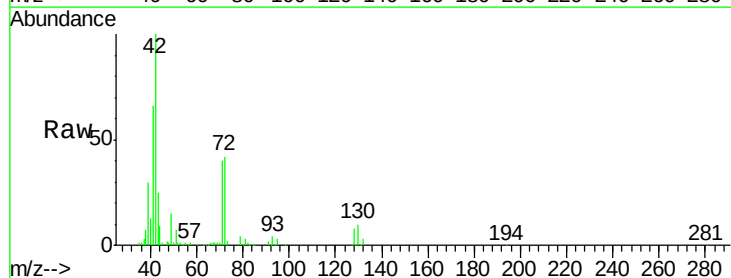
Manual Integrations
APPROVED

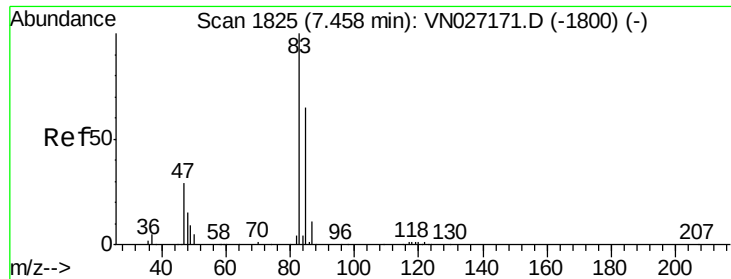
MMDadoda
9/16/2015 11:47:44 AM



#30
Tetrahydrofuran
Concen: 89.90 ug/l
RT: 7.32 min Scan# 1781
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Lower	Upper
42	100		
72	43.6	29.9	44.9
71	40.6	28.3	42.5





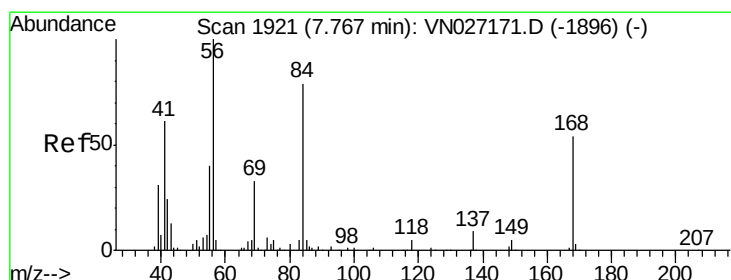
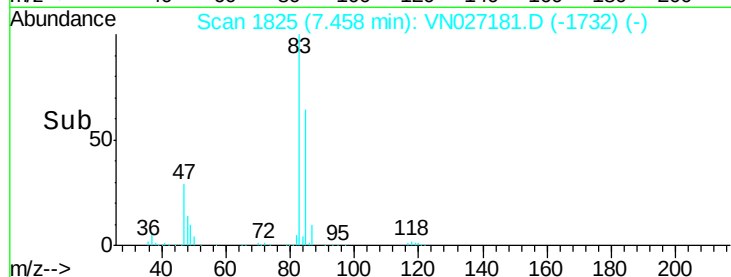
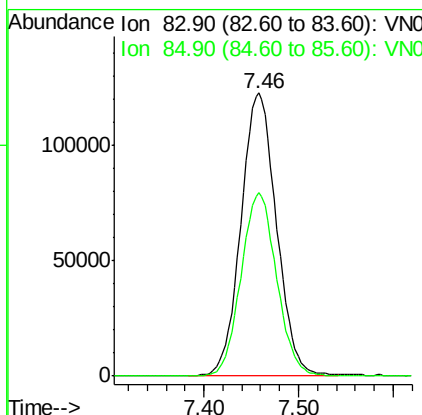
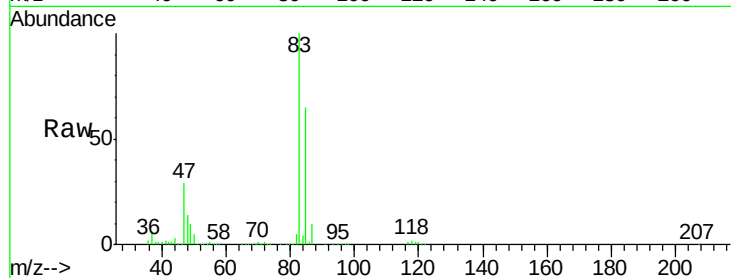
#31
Chloroform
Concen: 20.09 ug/l
RT: 7.46 min Scan# 1825
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion	83	Resp	320111
Ion Ratio	Lower	Upper	
83	100		
85	64.9	51.1	76.7

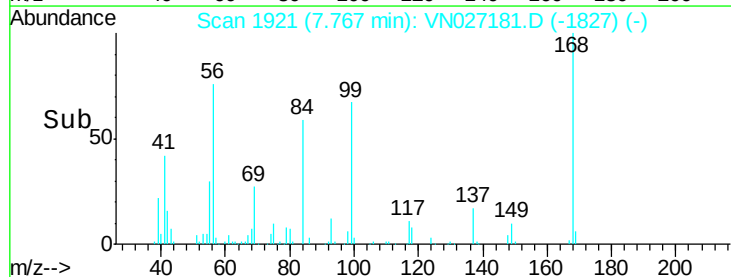
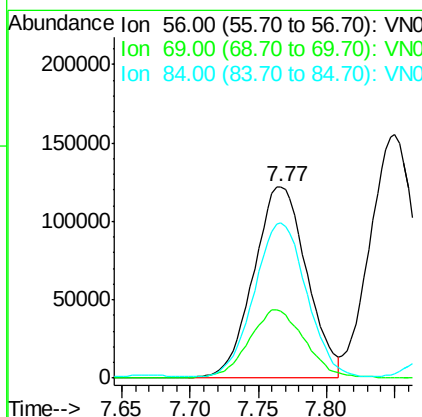
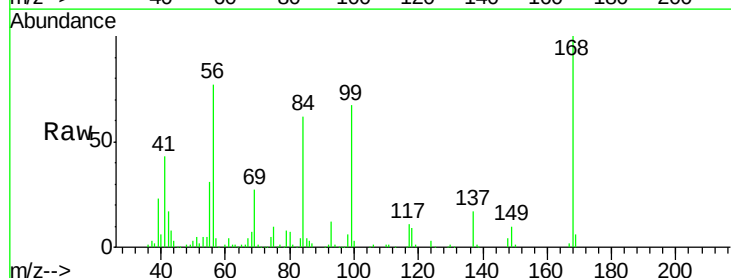
Manual Integrations
APPROVED

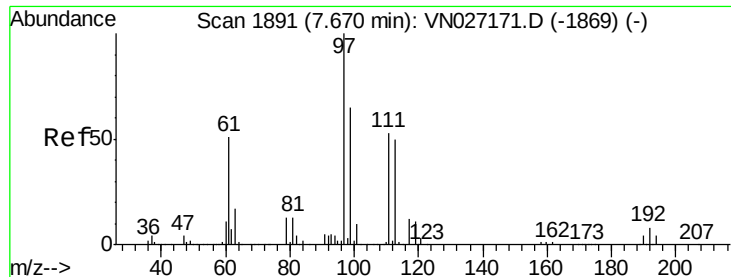
MMDadoda
9/16/2015 11:47:44 AM



#32
Cyclohexane
Concen: 20.29 ug/l
RT: 7.77 min Scan# 1921
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion	56	Resp	327166
Ion Ratio	Lower	Upper	
56	100		
69	34.7	23.0	34.4#
84	81.0	57.8	86.8





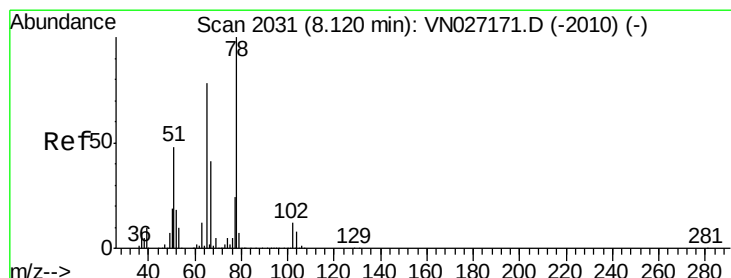
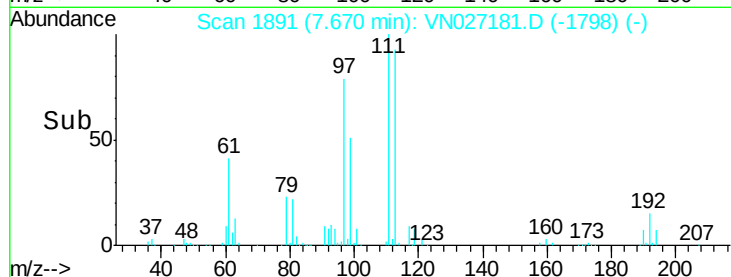
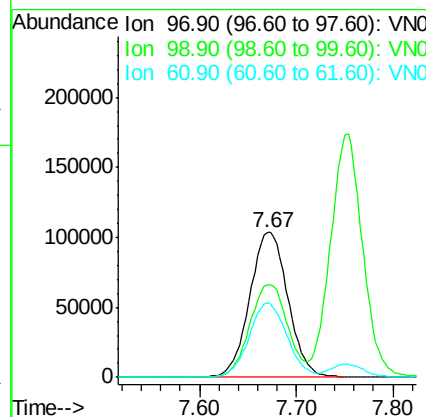
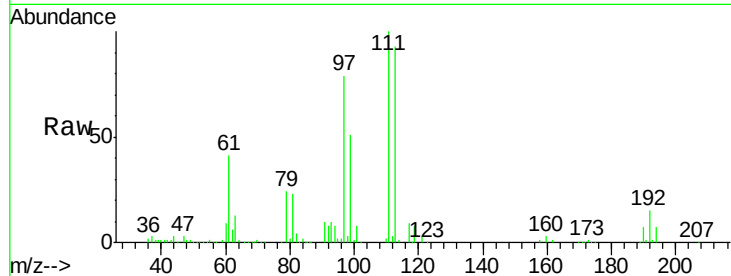
#33
 1,1,1-Trichloroethane
 Concen: 20.02 ug/l
 RT: 7.67 min Scan# 1891
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD01

Tot Ion	Ratio	Lower	Upper
97	100		
99	64.0	50.1	75.1
61	51.1	44.0	66.0

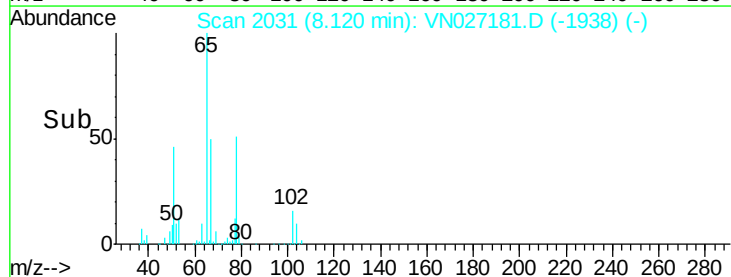
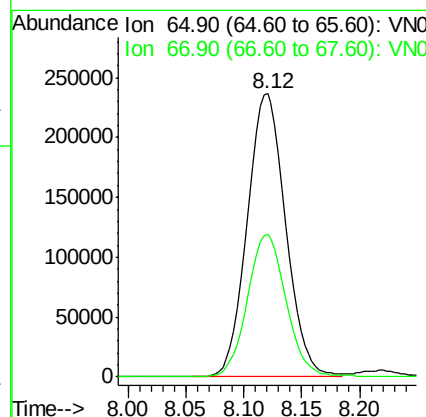
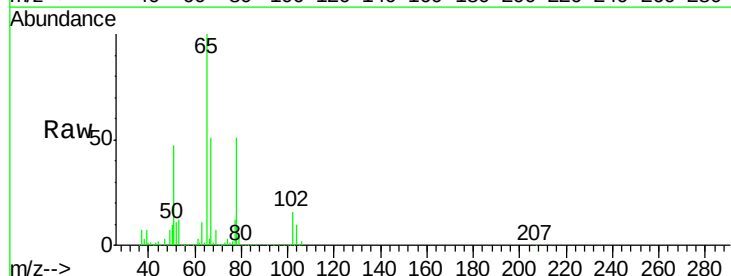
Manual Integrations
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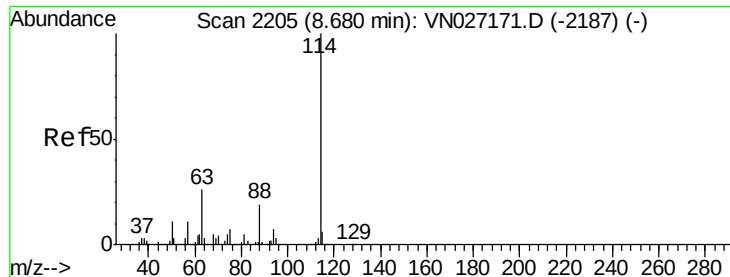
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 9/16/2015 11:47:44 AM



#34
 1,2-Dichloroethane-d4
 Concen: 47.72 ug/l
 RT: 8.12 min Scan# 2031
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Lower	Upper
65	100		
67	50.7	0.0	110.6





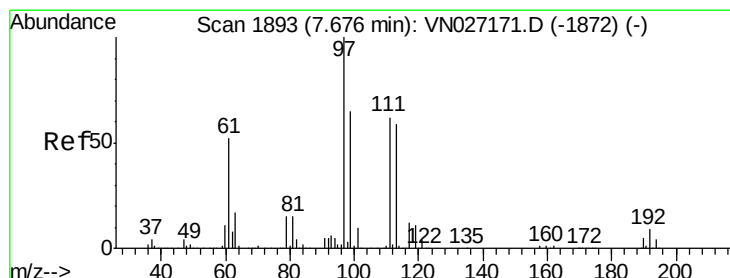
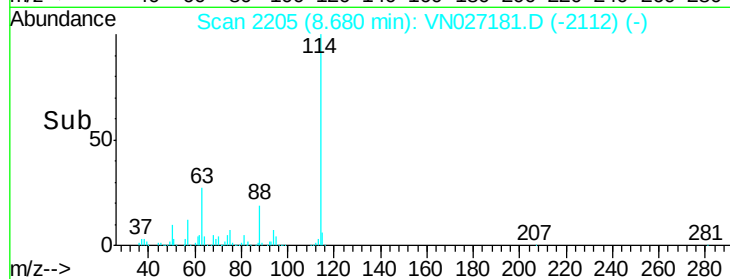
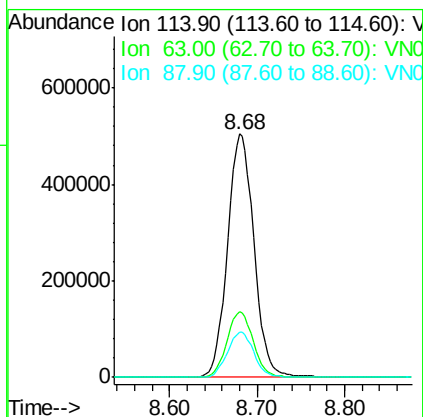
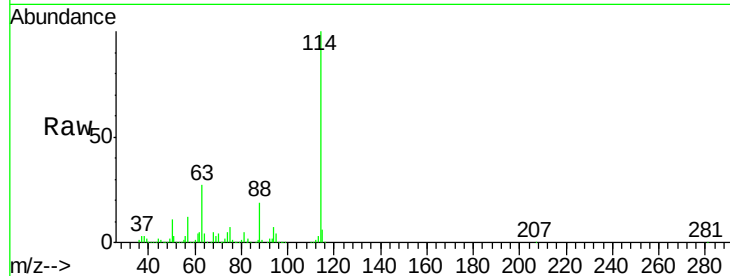
#35
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.68 min Scan# 2205
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD01

Tot Ion	Ratio	Lower	Upper
114	100		
63	26.9	0.0	48.8
88	18.6	0.0	32.2

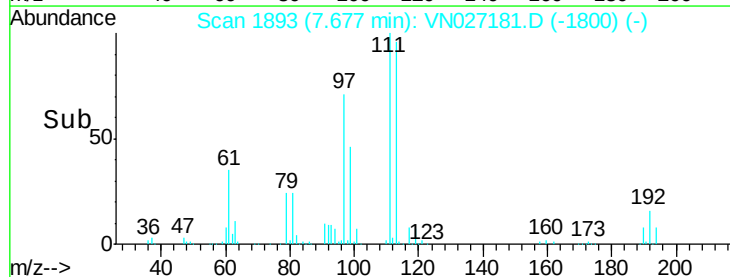
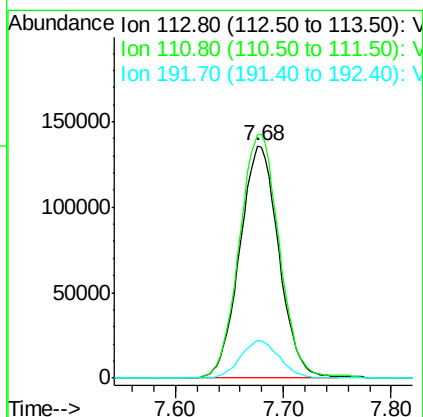
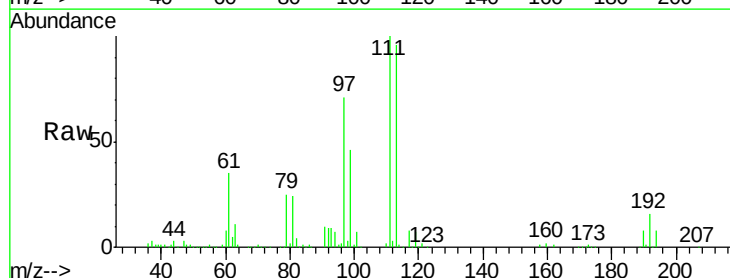
Manual Integrations
 APPROVED

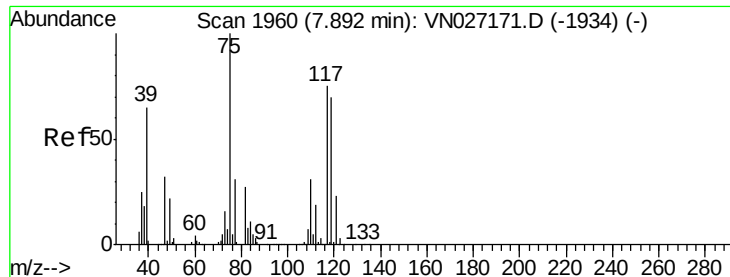
MMDadoda
 9/16/2015 11:47:44 AM



#36
 Dibromofluoromethane
 Concen: 46.57 ug/l
 RT: 7.68 min Scan# 1893
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Lower	Upper
113	100		
111	107.6	83.0	124.4
192	16.1	14.1	21.1





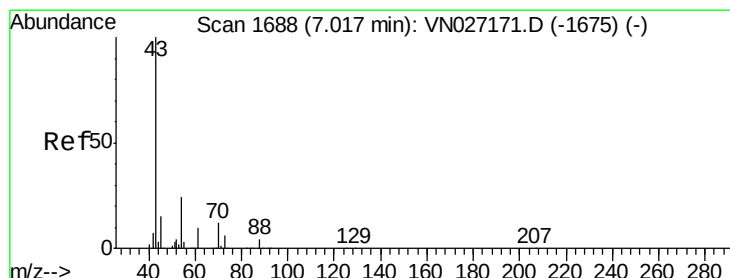
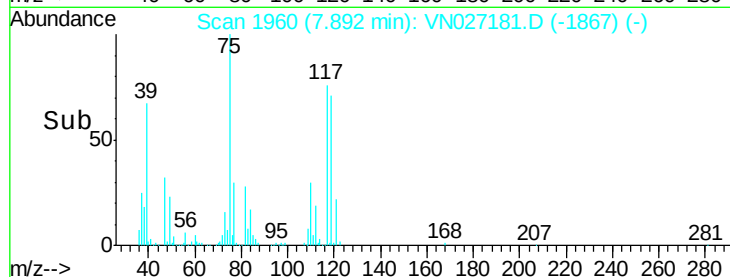
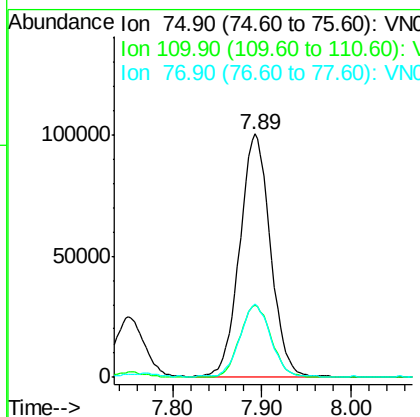
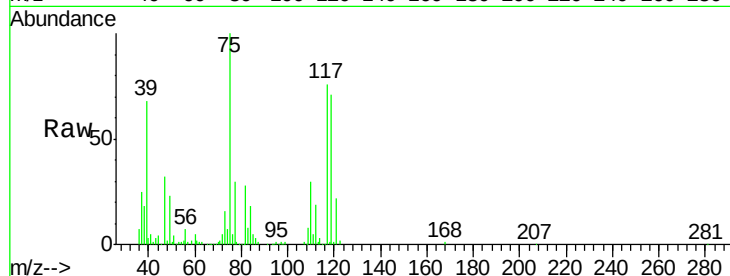
#37
 1,1-Dichloropropene
 Concen: 19.37 ug/l
 RT: 7.89 min Scan# 1960
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
75	100			
110	30.5	15.9	47.7	
77	29.4	24.9	37.3	

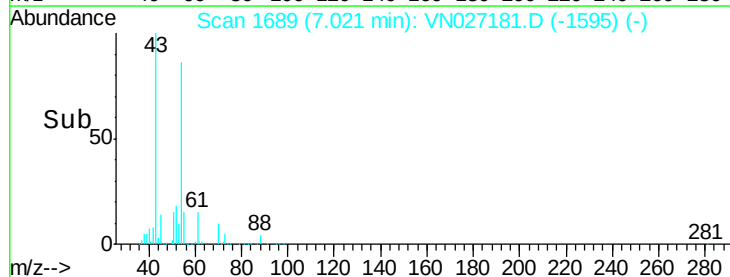
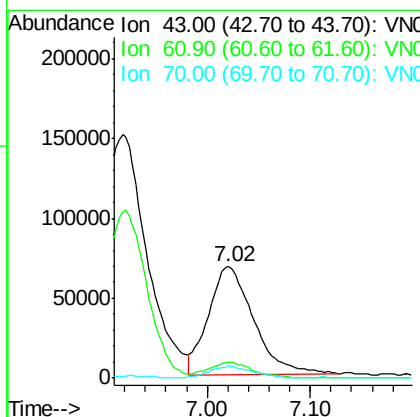
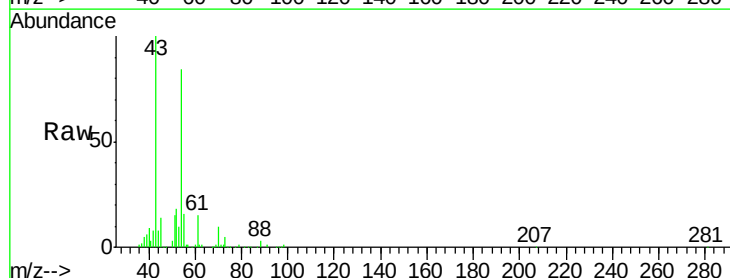
Manual Integrations
 APPROVED

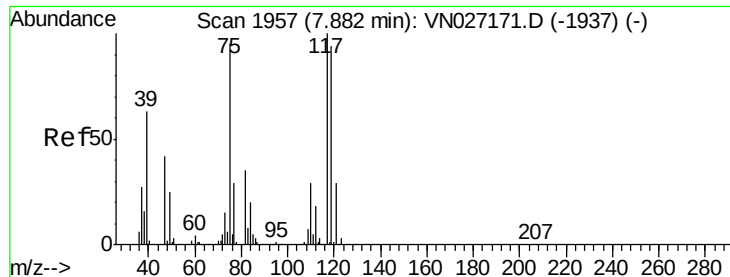
MMDadoda
 9/16/2015 11:47:44 AM



#38
 Ethyl Acetate
 Concen: 18.84 ug/l
 RT: 7.02 min Scan# 1689
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
43	100			
61	13.6	10.2	15.4	
70	9.6	7.4	11.0	





#39

Carbon Tetrachloride

Concen: 18.98 ug/l

RT: 7.89 min Scan# 1958

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

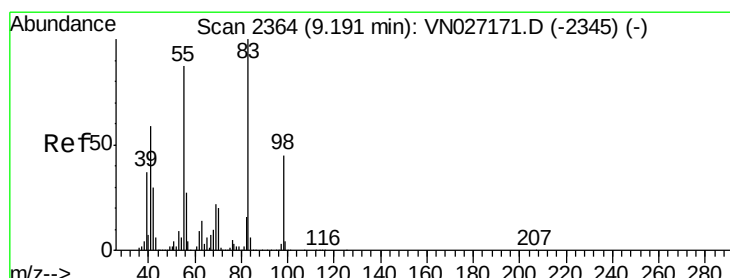
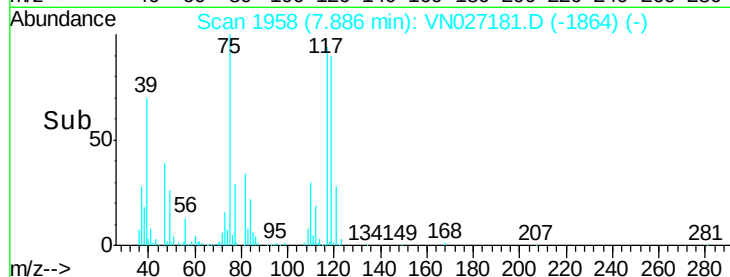
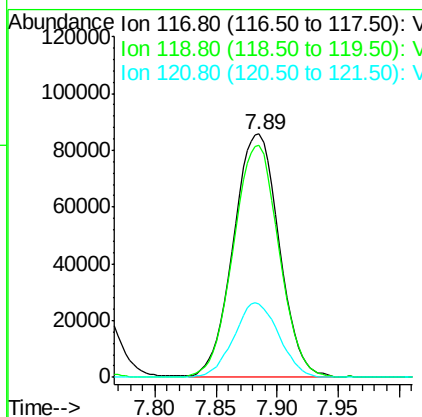
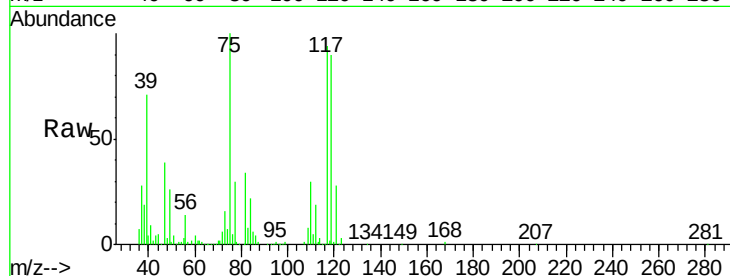
ClientSampleId :

VN0915WBSD01

Tot Ion:	117	Resp:	221355
Ion Ratio	Lower	Upper	
117	100		
119	95.6	75.3	112.9
121	30.1	23.8	35.8

Manual Integrations
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#40

Methylcyclohexane

Concen: 19.07 ug/l

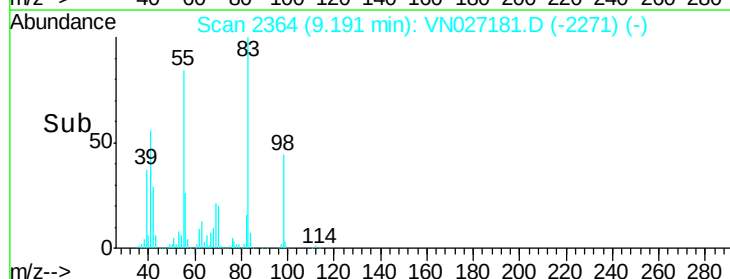
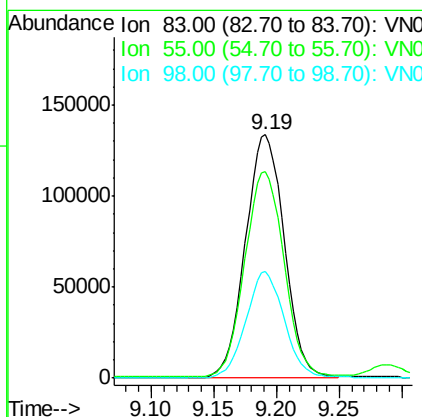
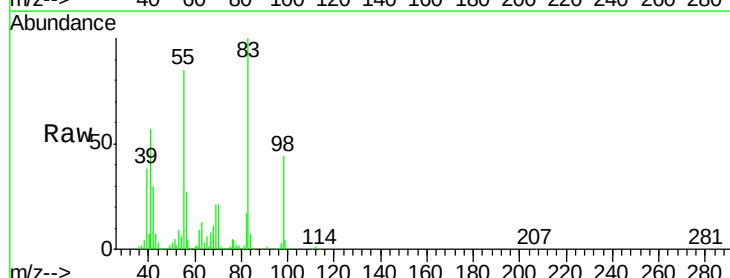
RT: 9.19 min Scan# 2364

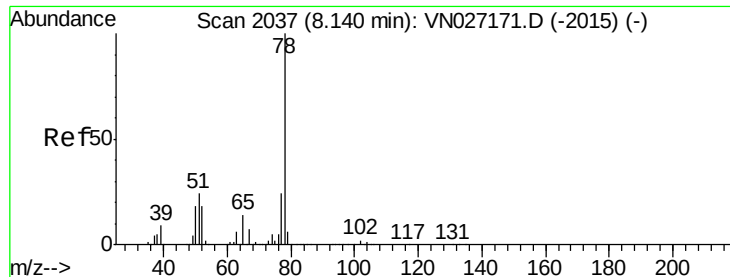
Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Tgt Ion:	83	Resp:	288007
Ion Ratio	Lower	Upper	
83	100		
55	84.3	69.8	104.8
98	43.5	34.3	51.5





#41

Benzene

Concen: 19.55 ug/l

RT: 8.14 min Scan# 2037

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD01

Tot Ion: 78 Resp: 707592

Ion Ratio Lower Upper

78 100

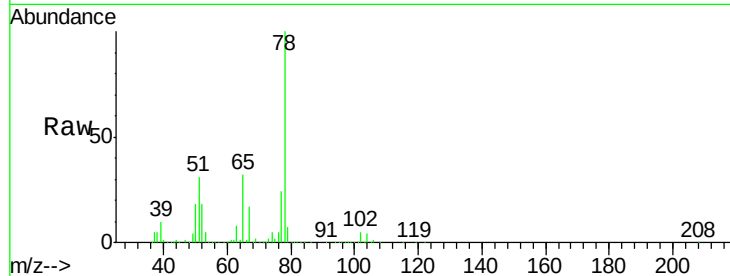
77 23.5 19.0 28.4

Manual Integrations

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9/16/2015 11:47:44 AM



Abundance Ion 78.00 (77.70 to 78.70): VN0

Ion 77.00 (76.70 to 77.70): VN0

8.14

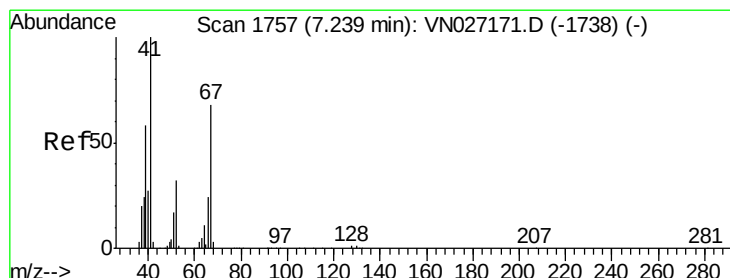
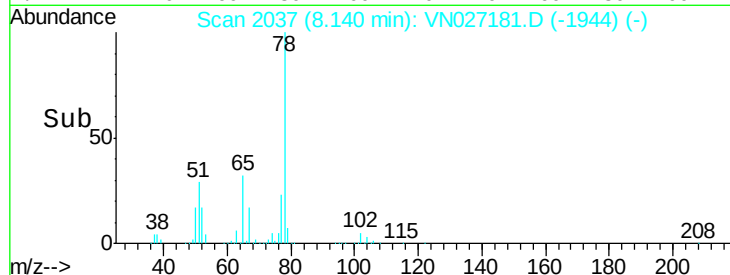
300000

200000

100000

0

Time-->



#42

Methacrylonitrile

Concen: 18.63 ug/l

RT: 7.24 min Scan# 1758

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Tgt Ion: 41 Resp: 111715

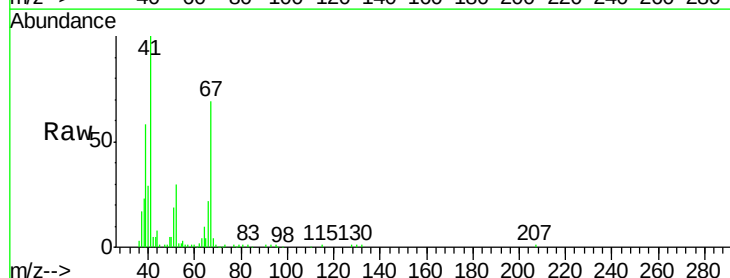
Ion Ratio Lower Upper

41 100

39 62.6 43.0 64.6

67 75.4 52.2 78.2

52 34.2 21.3 31.9#



Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 67.00 (66.70 to 67.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

100000

80000

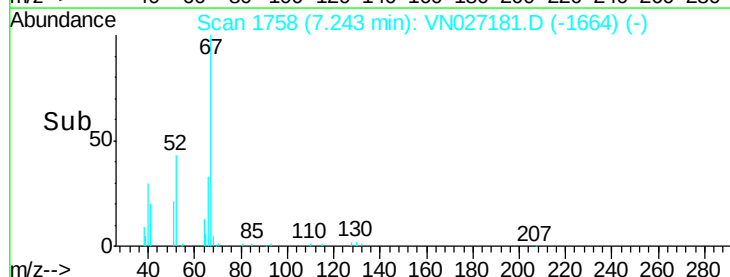
60000

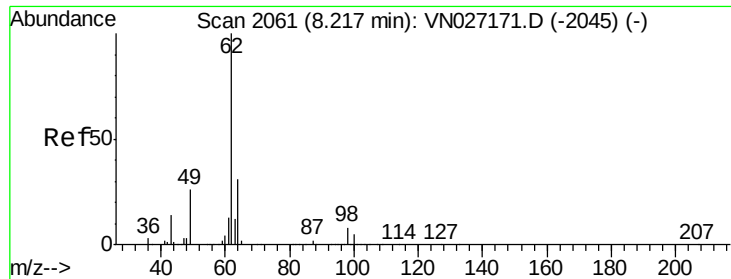
40000

20000

0

Time-->





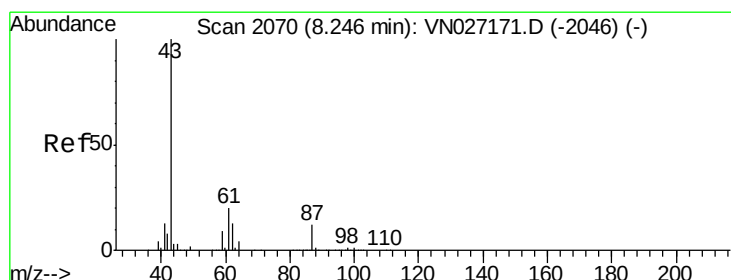
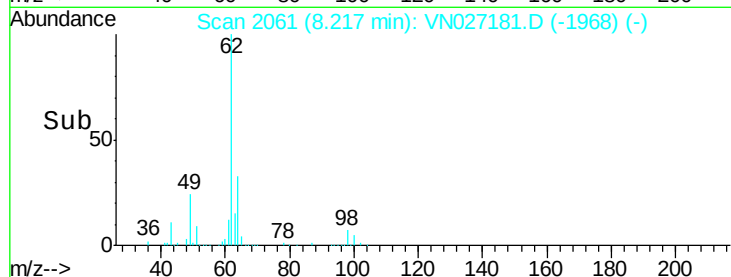
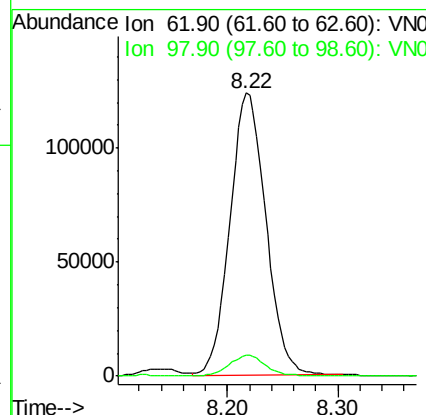
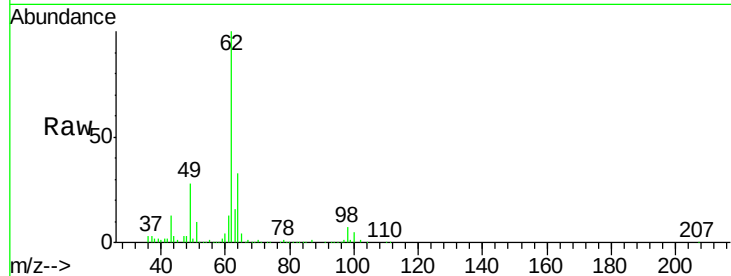
#43
 1,2-Dichloroethane
 Concen: 19.22 ug/l
 RT: 8.22 min Scan# 2061
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
62	100	280221		
98	7.1	0.0	18.0	

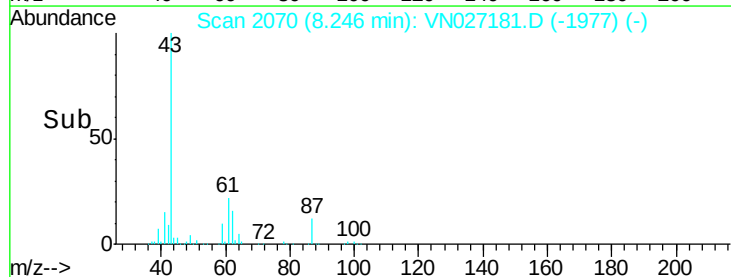
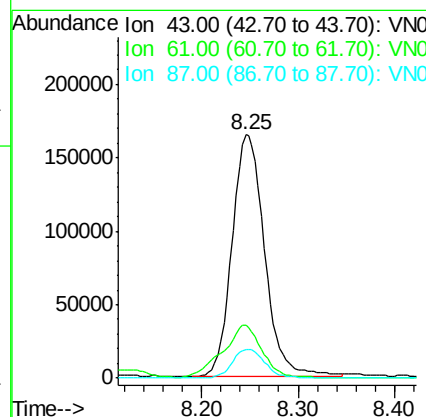
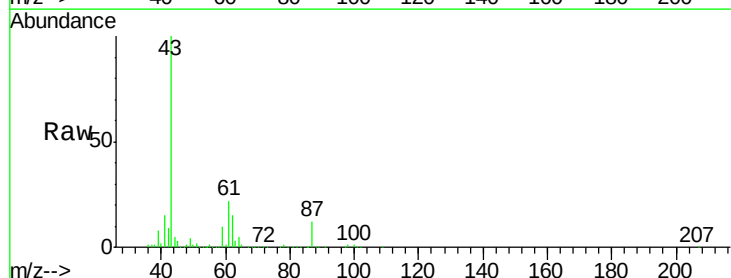
Manual Integrations
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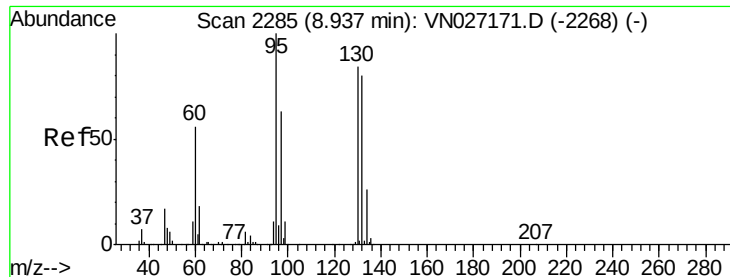
MMDadoda
 9/16/2015 11:47:44 AM



#44
 Isopropyl Acetate
 Concen: 19.41 ug/l
 RT: 8.25 min Scan# 2070
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	384672		
61	25.9	20.6	31.0	
87	12.1	8.6	13.0	





#45

Trichloroethene

Concen: 19.64 ug/l

RT: 8.93 min Scan# 2284

Delta R.T. -0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD01

Tot Ion:130 Resp: 142736

Ion Ratio Lower Upper

130 100

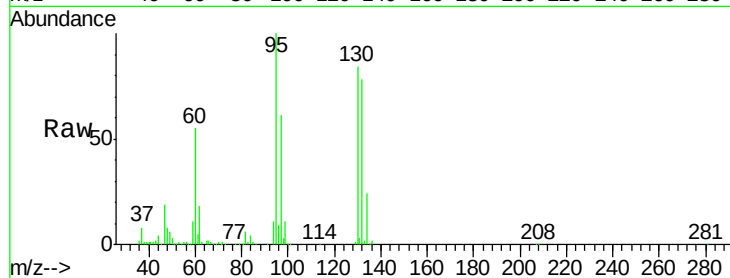
95 119.1 0.0 222.2

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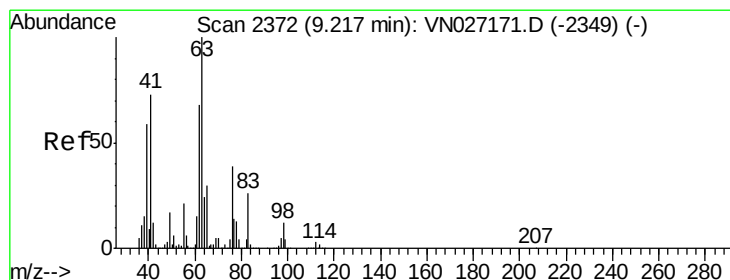
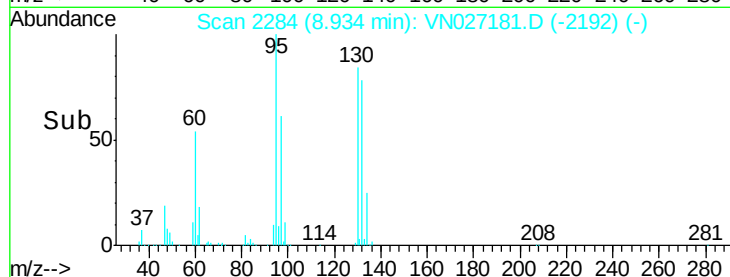
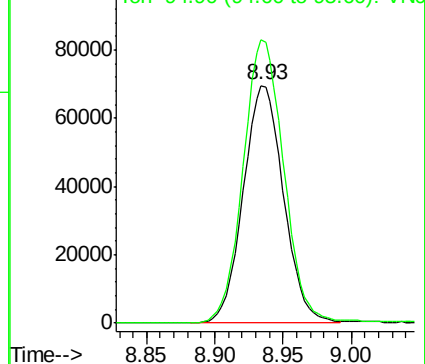
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9/16/2015 11:47:44 AM



Abundance Ion 129.80 (129.50 to 130.50): V

Ion 94.90 (94.60 to 95.60): VN0



#46

1,2-Dichloropropane

Concen: 18.97 ug/l

RT: 9.22 min Scan# 2372

Delta R.T. 0.00 min

Lab File: VN027181.D

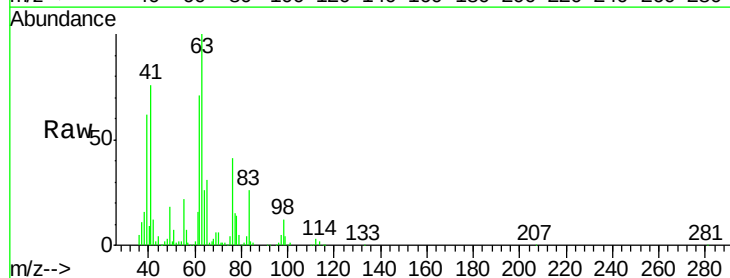
Acq: 15 Sep 2015 23:47

Tgt Ion: 63 Resp: 197468

Ion Ratio Lower Upper

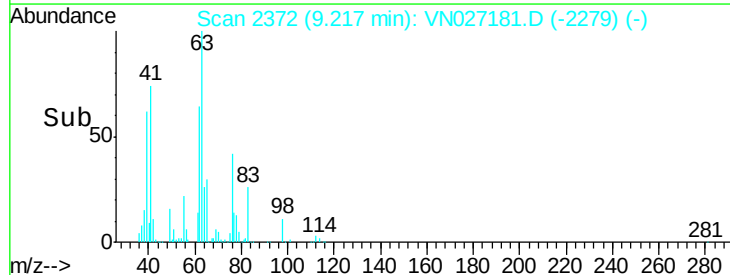
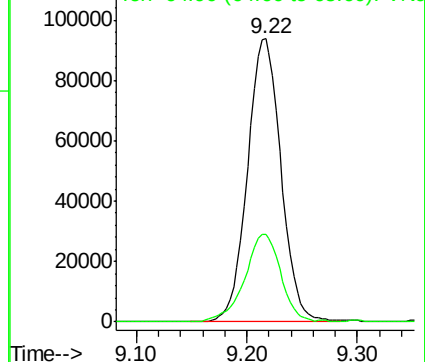
63 100

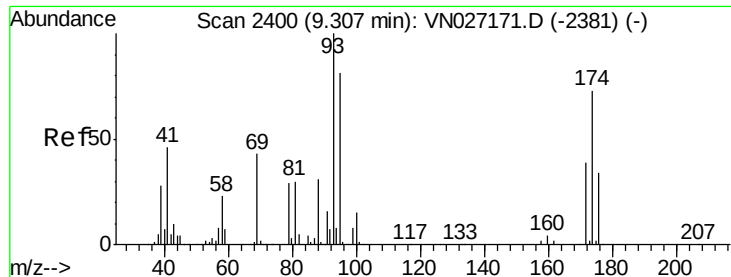
65 30.5 24.4 36.6



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 64.90 (64.60 to 65.60): VN0





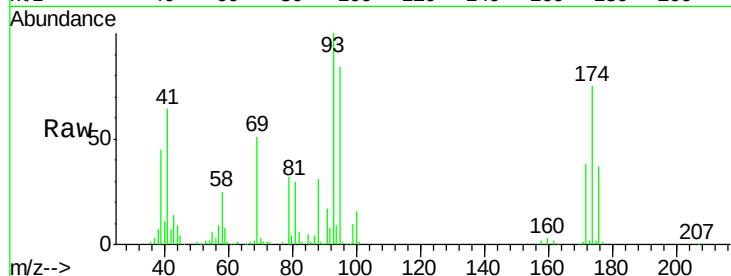
#47
 Dibromomethane
 Concen: 18.86 ug/l
 RT: 9.31 min Scan# 2400
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD01

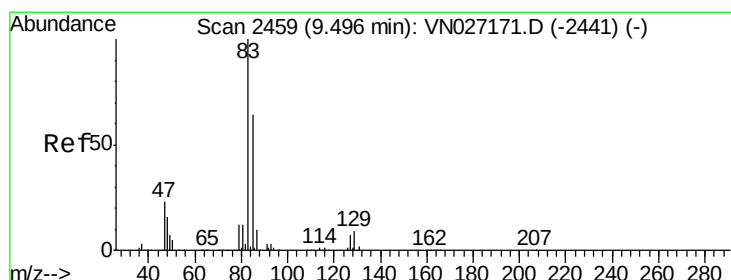
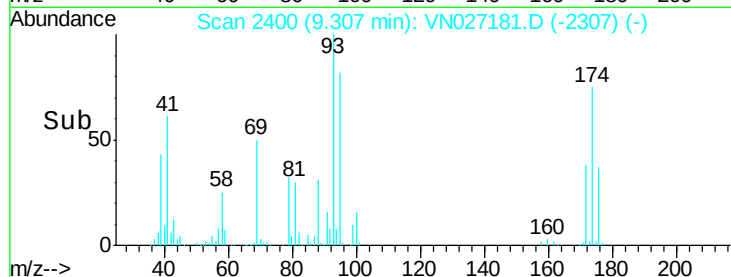
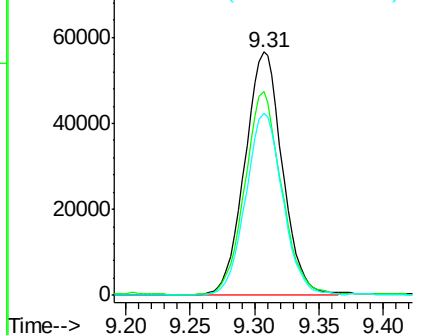
Tot Ion	Ratio	Lower	Upper
93	100		
95	82.0	66.3	99.5
174	73.5	67.8	101.6

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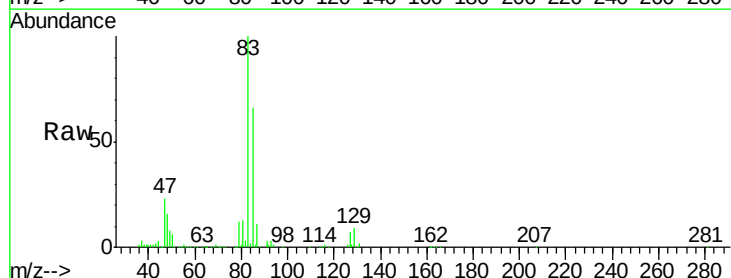


Abundance Ion 92.80 (92.50 to 93.50): VNO
 Ion 94.80 (94.50 to 95.50): VNO
 Ion 173.70 (173.40 to 174.40): V

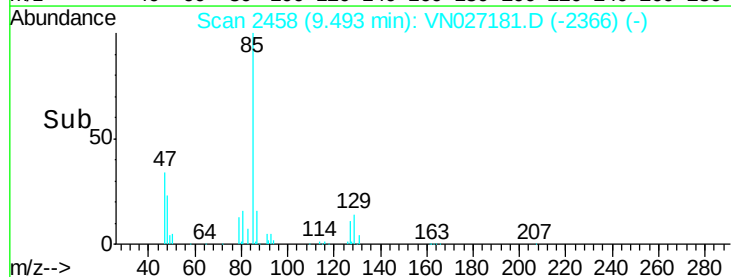
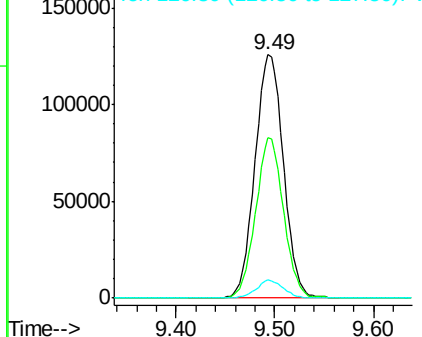


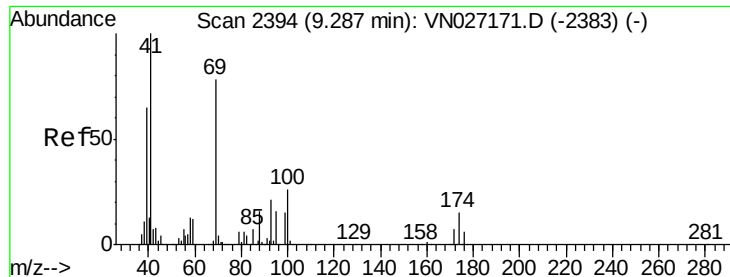
#48
 Bromodichloromethane
 Concen: 19.42 ug/l
 RT: 9.49 min Scan# 2458
 Delta R.T. -0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Lower	Upper
83	100		
85	66.0	50.7	76.1
127	7.3	5.5	8.3



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





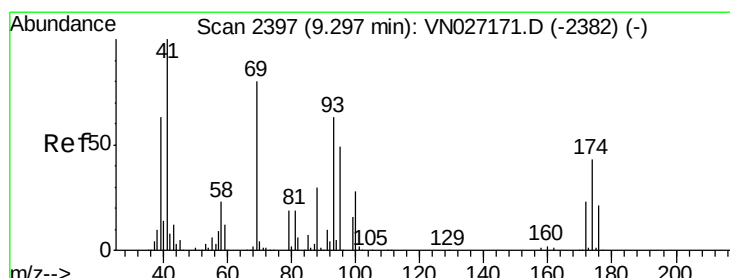
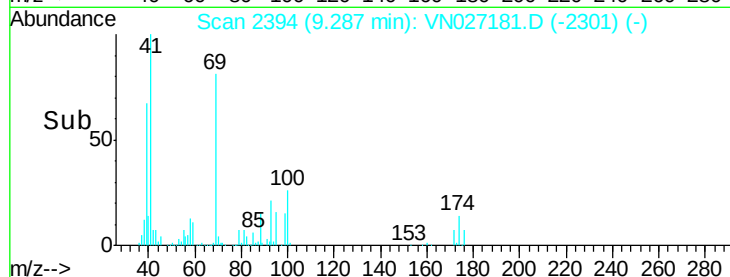
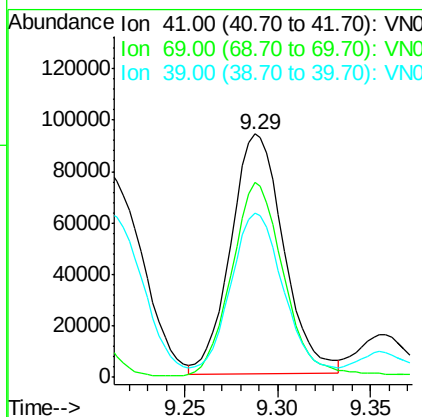
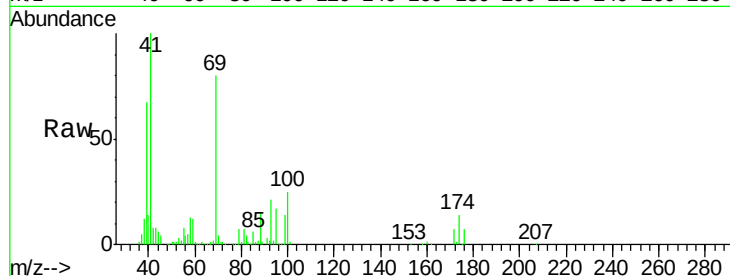
#49
Methvl methacrylate
Concen: 18.71 ug/l
RT: 9.29 min Scan# 2394
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
41	100	184729		
69	79.5	59.3	88.9	
39	66.9	39.5	59.3#	

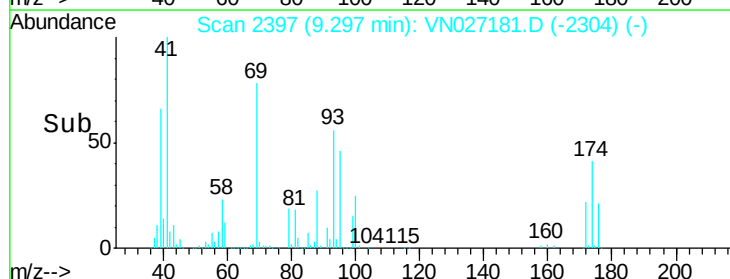
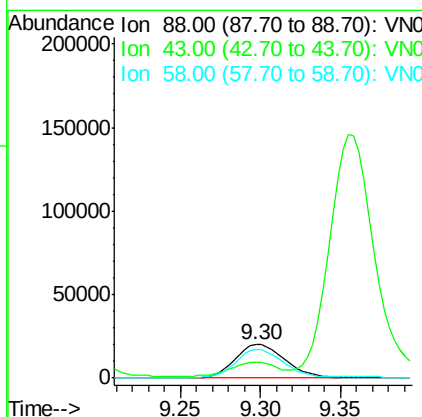
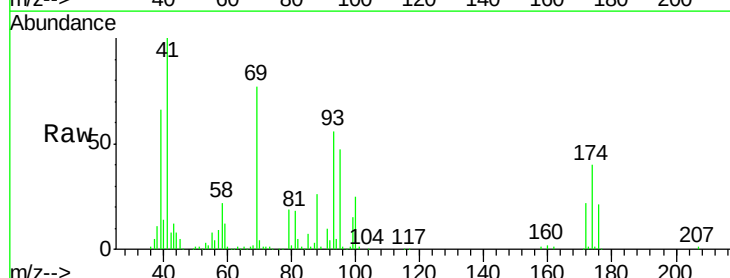
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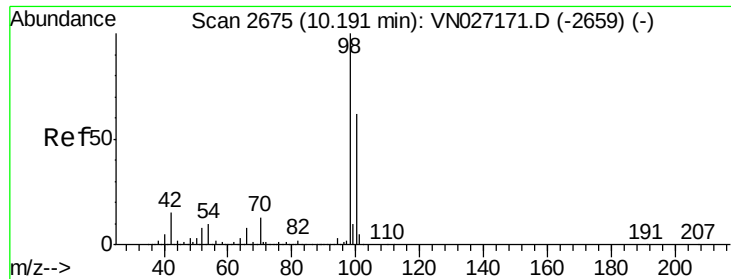
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#50
1,4-Dioxane
Concen: 371.17 ug/l
RT: 9.30 min Scan# 2397
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
88	100	42985		
43	36.6	27.6	41.4	
58	83.7	63.1	94.7	





#51

Toluene-d8

Concen: 46.70 ug/l

RT: 10.19 min Scan# 2675

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD01

Tot Ion: 98 Resp: 1342815

Ion Ratio Lower Upper

98 100

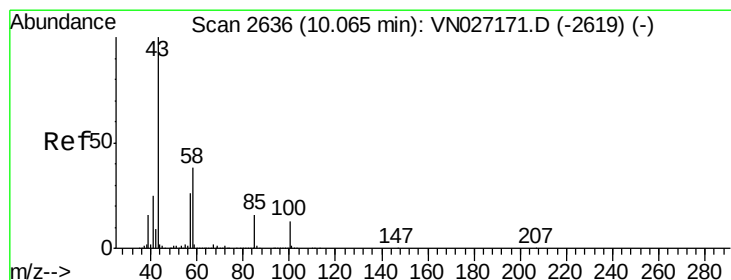
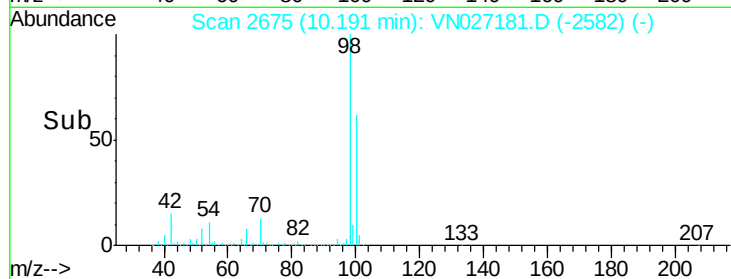
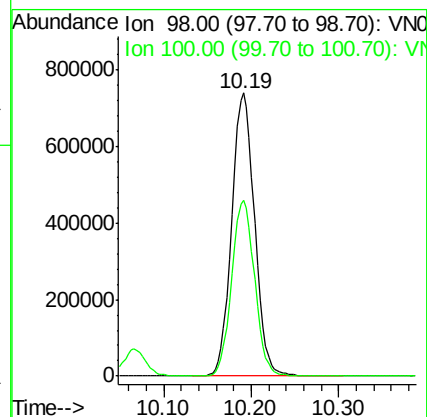
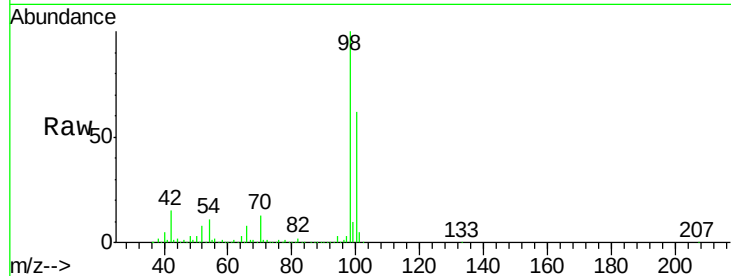
100 62.5 50.5 75.7

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9/16/2015 11:47:44 AM



#52

4-Methyl-2-Pentanone

Concen: 96.60 ug/l

RT: 10.07 min Scan# 2636

Delta R.T. 0.00 min

Lab File: VN027181.D

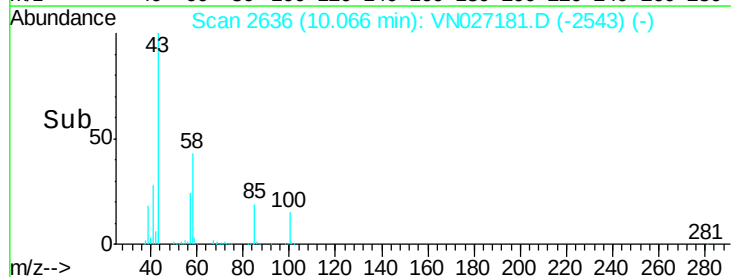
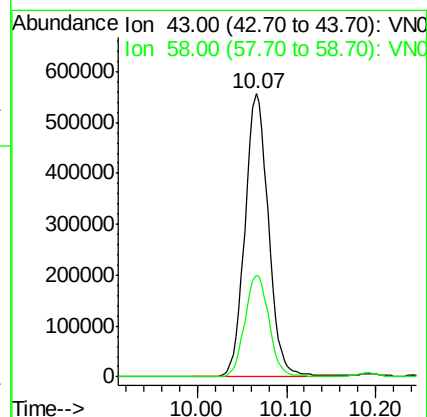
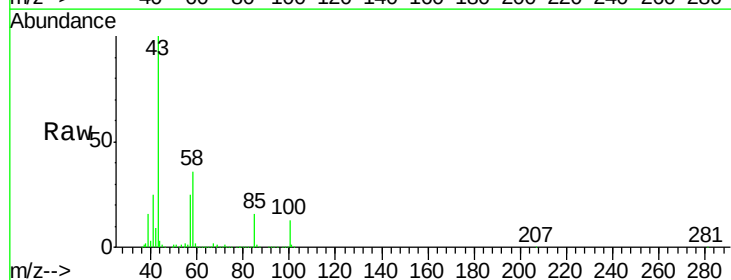
Acq: 15 Sep 2015 23:47

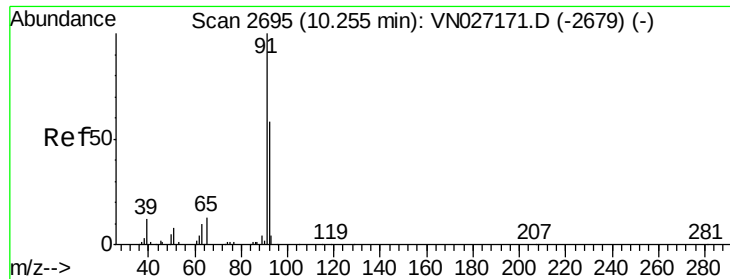
Tgt Ion: 43 Resp: 1012222

Ion Ratio Lower Upper

43 100

58 37.3 29.8 44.8





#53

Toluene

Concen: 19.50 ug/l

RT: 10.26 min Scan# 2695

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD01

Tot Ion: 92 Resp: 413332

Ion Ratio Lower Upper

92 100

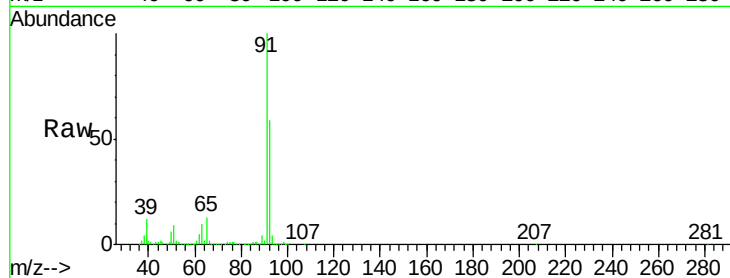
91 171.8 141.4 212.2

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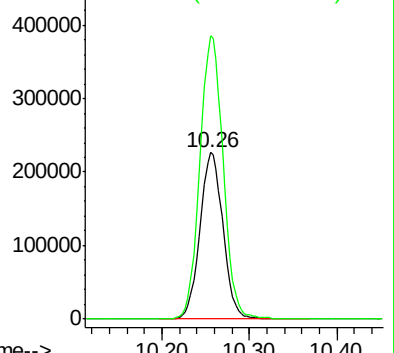
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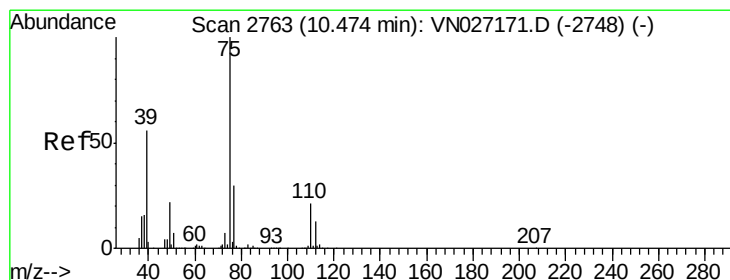
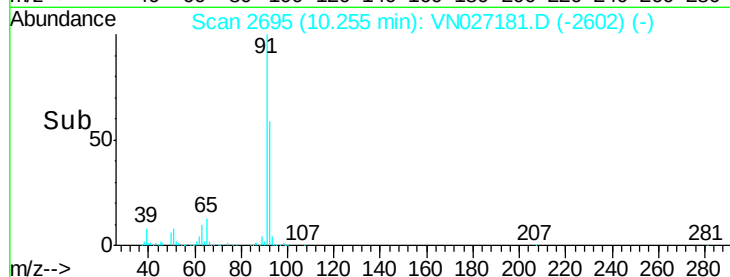


Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0



Time-->



#54

t-1,3-Dichloropropene

Concen: 18.45 ug/l

RT: 10.47 min Scan# 2763

Delta R.T. 0.00 min

Lab File: VN027181.D

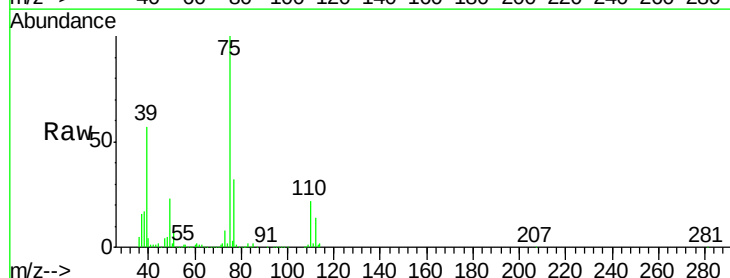
Acq: 15 Sep 2015 23:47

Tgt Ion: 75 Resp: 266912

Ion Ratio Lower Upper

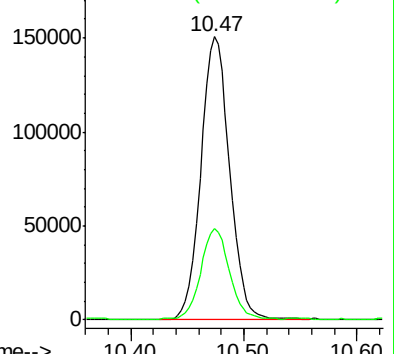
75 100

77 31.8 25.4 38.2

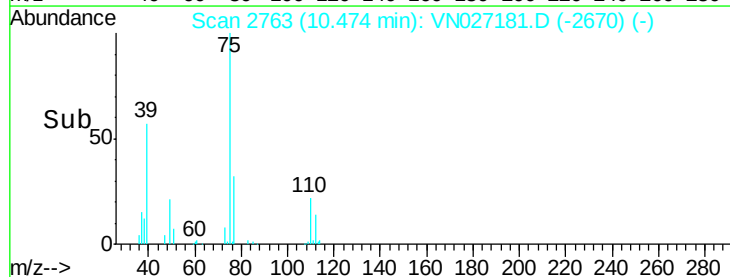


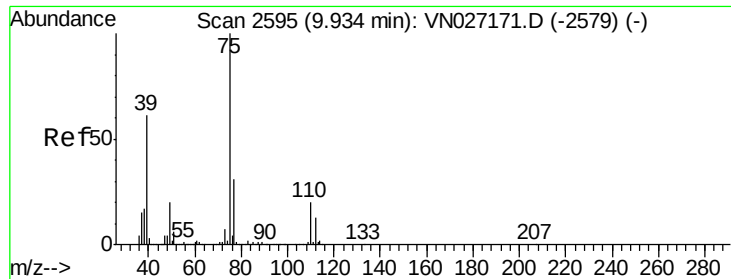
Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



Time-->





#55

cis-1,3-Dichloropropene

Concen: 18.47 ug/l

RT: 9.93 min Scan# 2595

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

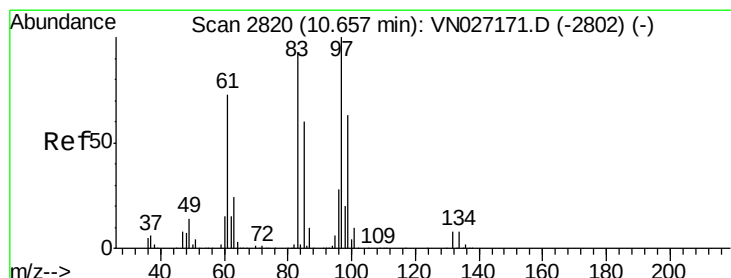
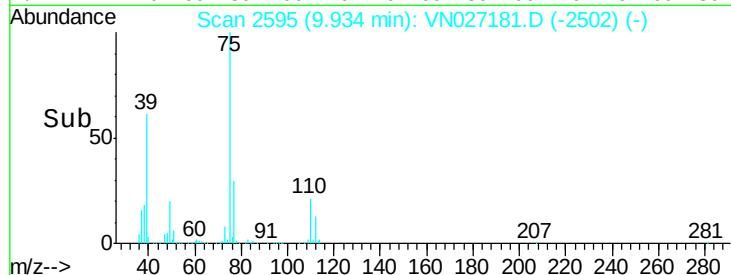
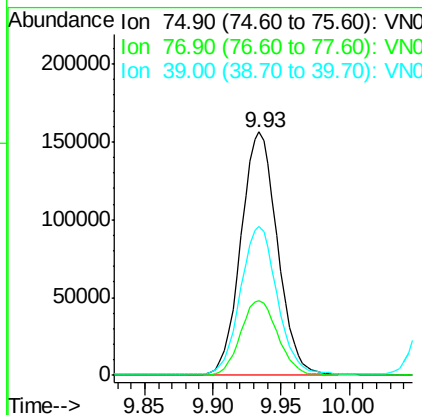
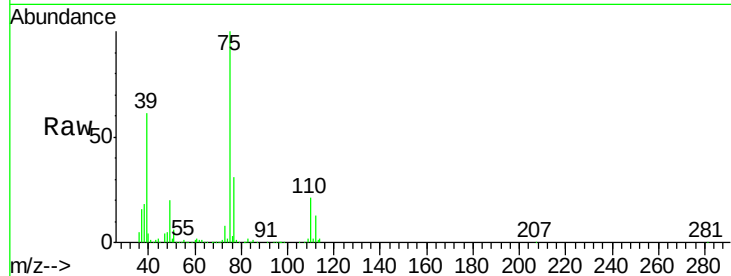
ClientSampleId :

VN0915WBSD01

Tot Ion:	75	Resp:	290699
Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.6	38.4
39	60.8	41.6	62.4

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#56

1,1,2-Trichloroethane

Concen: 19.94 ug/l

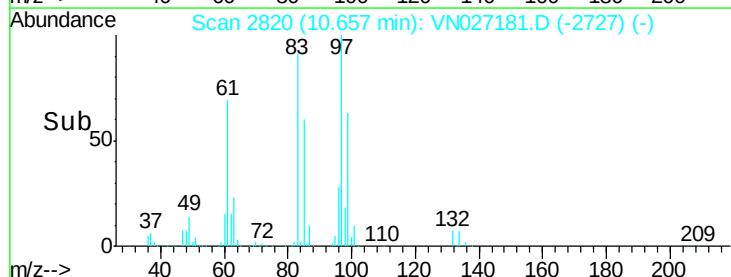
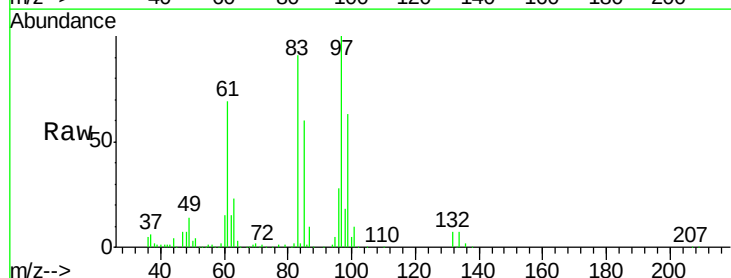
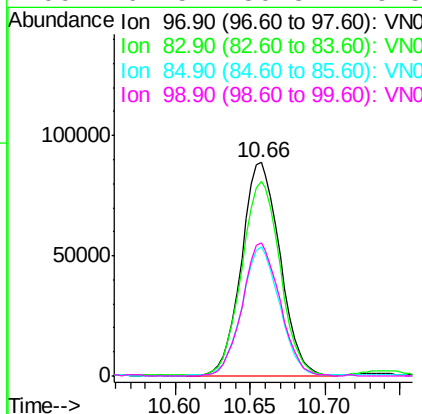
RT: 10.66 min Scan# 2820

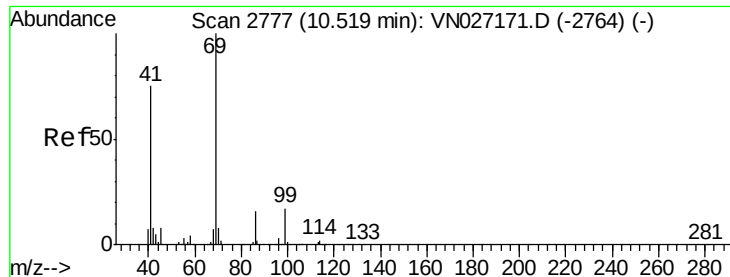
Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Tgt Ion:	97	Resp:	158863
Ion	Ratio	Lower	Upper
97	100		
83	91.2	75.0	112.4
85	60.1	48.0	72.0
99	62.5	50.3	75.5





#57

Ethyl methacrylate

Concen: 19.08 ug/l

RT: 10.52 min Scan# 2777

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD01

Tot Ion: 69 Resp: 256169

Ion Ratio Lower Upper

69 100

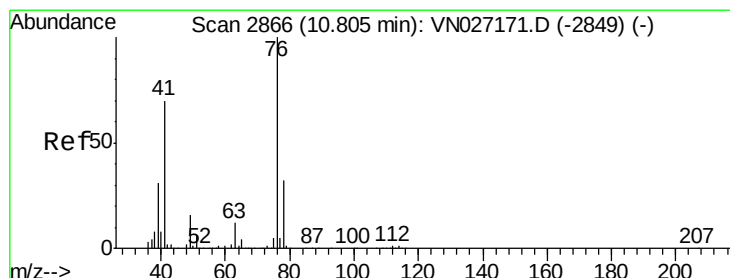
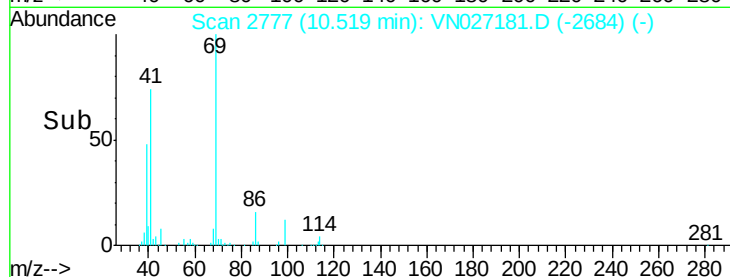
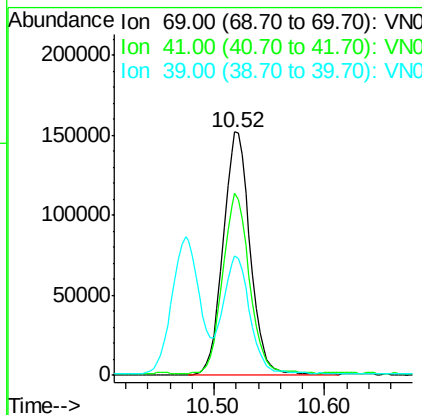
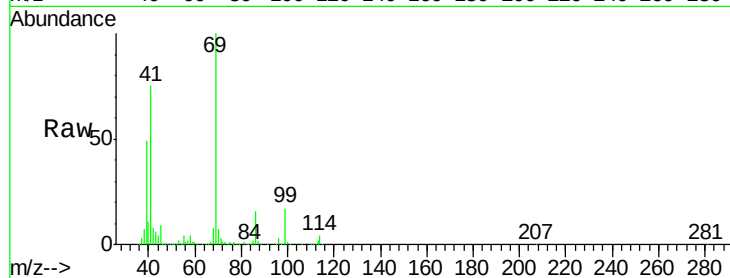
41 73.5 61.3 91.9

39 46.8 28.4 42.6#

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9/16/2015 11:47:44 AM



#58

1,3-Dichloropropane

Concen: 19.49 ug/l

RT: 10.81 min Scan# 2866

Delta R.T. 0.00 min

Lab File: VN027181.D

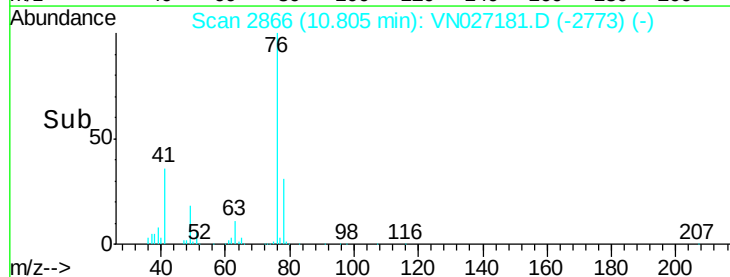
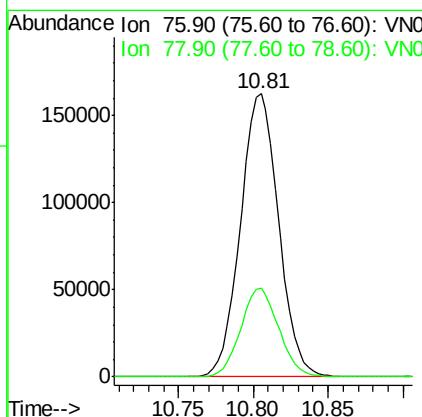
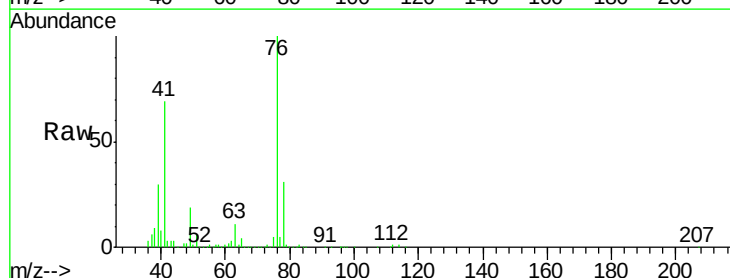
Acq: 15 Sep 2015 23:47

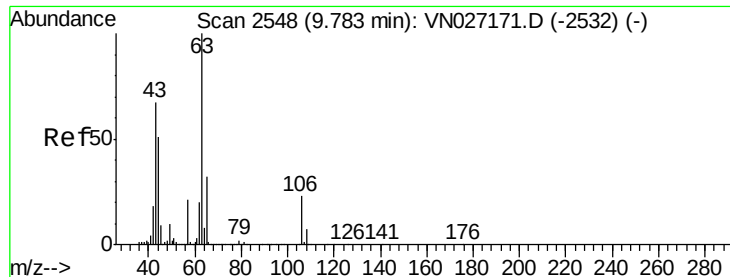
Tgt Ion: 76 Resp: 288246

Ion Ratio Lower Upper

76 100

78 31.4 25.0 37.6





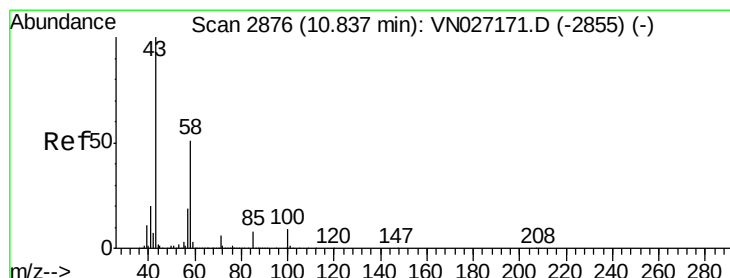
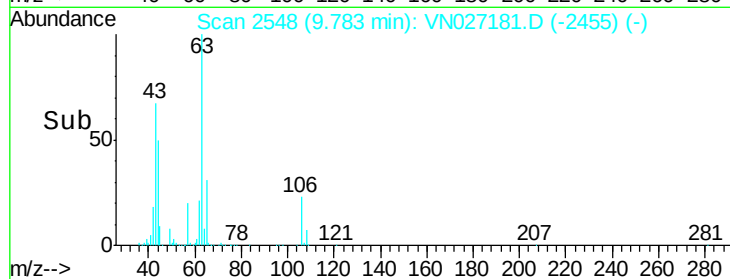
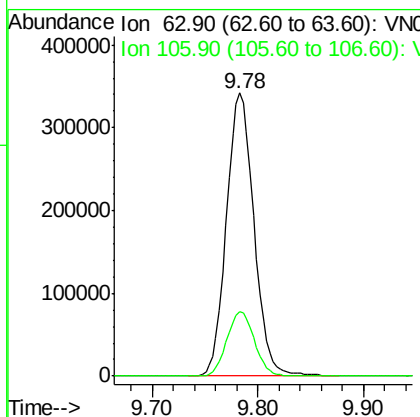
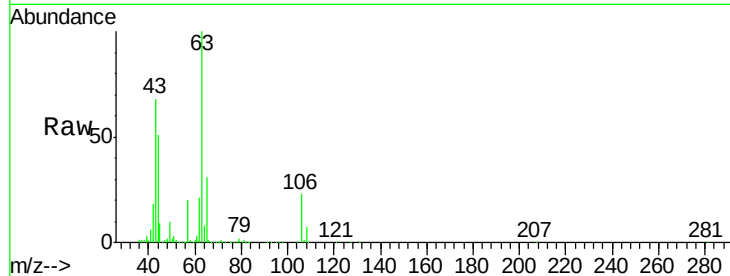
#59
2-Chloroethyl Vinyl ether
Concen: 100.26 ug/l
RT: 9.78 min Scan# 2548
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion: 63 Resp: 618012
Ion Ratio Lower Upper
63 100
106 22.9 17.7 26.5

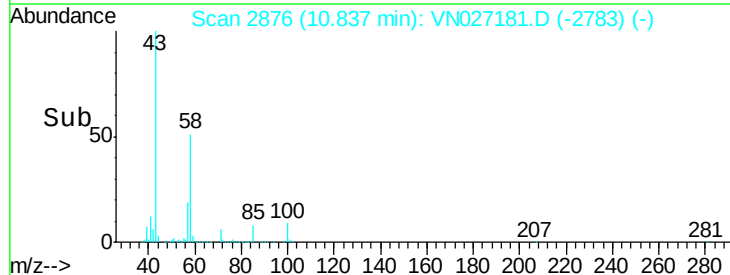
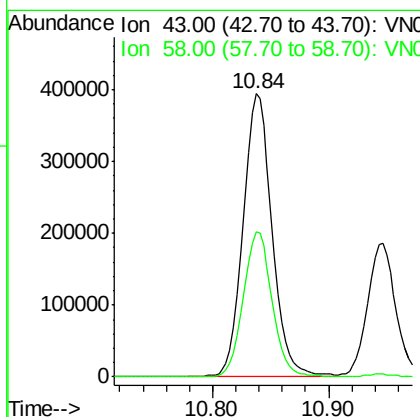
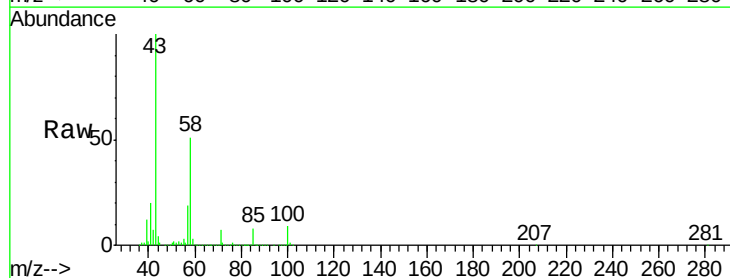
Manual Integrations
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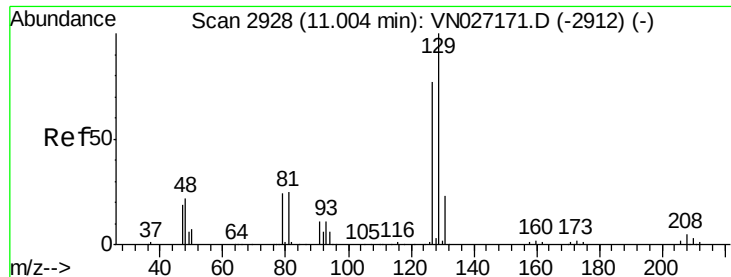
MMDadoda
9/16/2015 11:47:44 AM



#60
2-Hexanone
Concen: 94.95 ug/l
RT: 10.84 min Scan# 2876
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion: 43 Resp: 677404
Ion Ratio Lower Upper
43 100
58 51.7 26.2 78.5





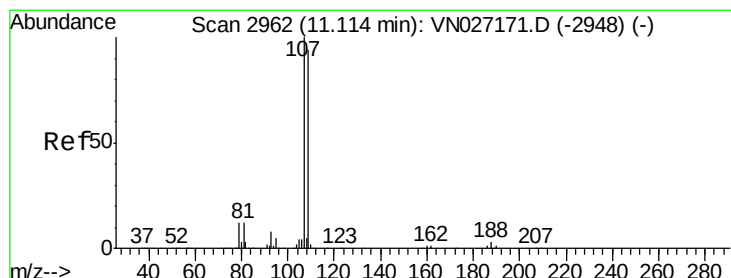
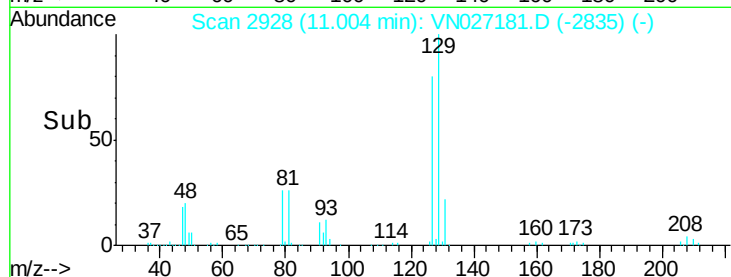
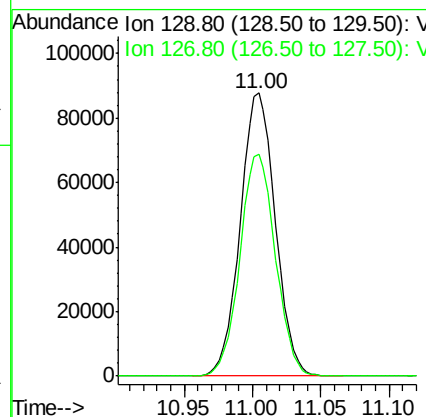
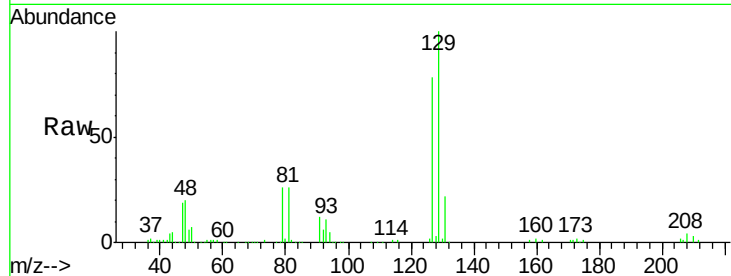
#61
 Dibromochloromethane
 Concen: 19.24 ug/l
 RT: 11.00 min Scan# 2928
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD01

Tot Ion	Ratio	Lower	Upper
129	100		
127	79.3	39.1	117.2

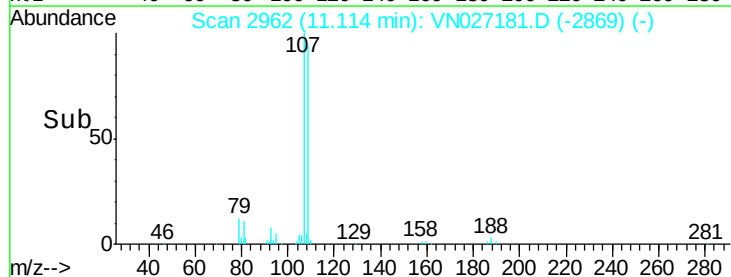
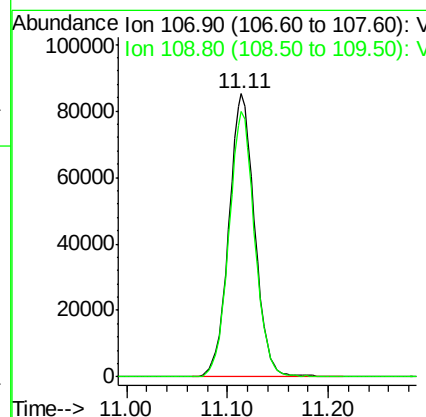
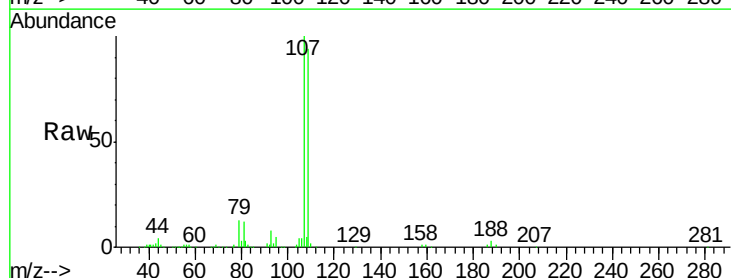
Manual Integrations
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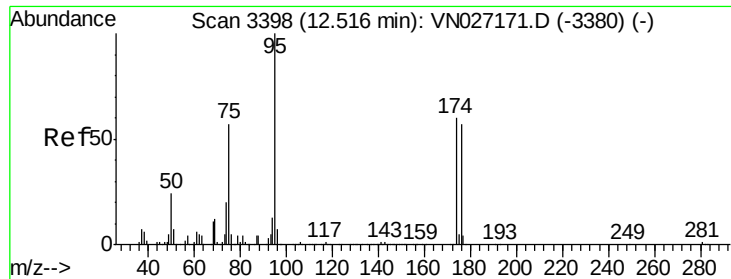
MMDadoda
 9/16/2015 11:47:44 AM



#62
 1,2-Dibromoethane
 Concen: 19.35 ug/l
 RT: 11.11 min Scan# 2962
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Lower	Upper
107	100		
109	93.5	75.6	113.4





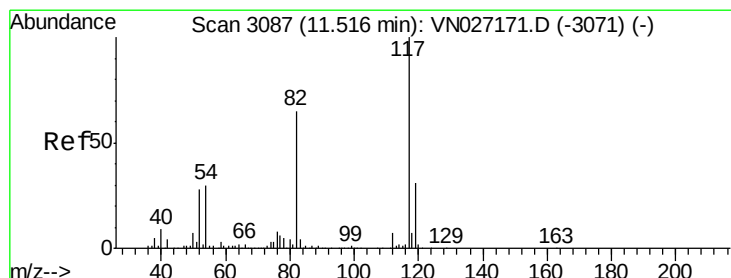
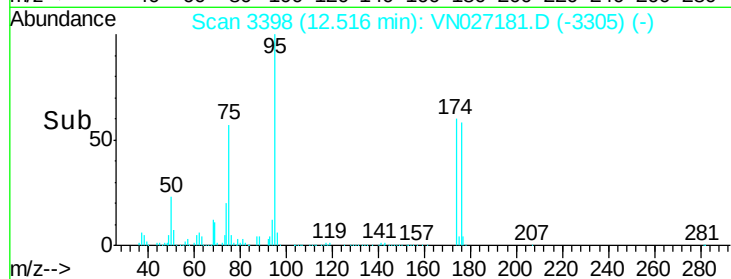
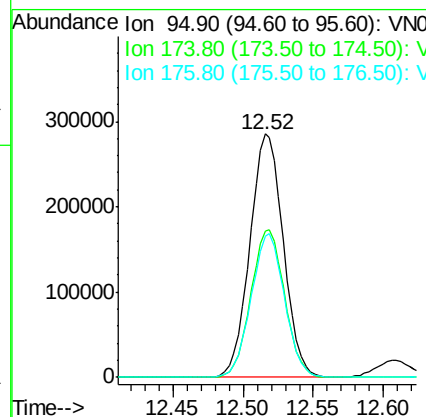
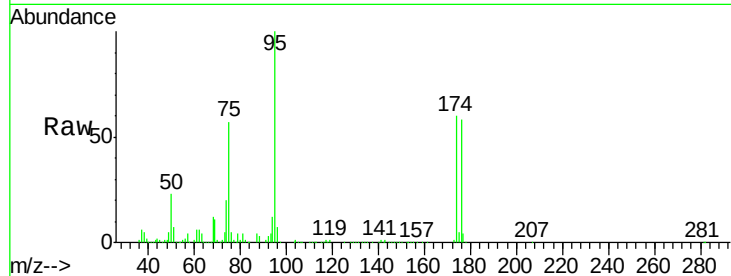
#63
 4-Bromofluorobenzene
 Concen: 46.30 ug/l
 RT: 12.52 min Scan# 3398
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
95	100	472509		
174	61.3	0.0	137.0	
176	59.1	0.0	130.8	

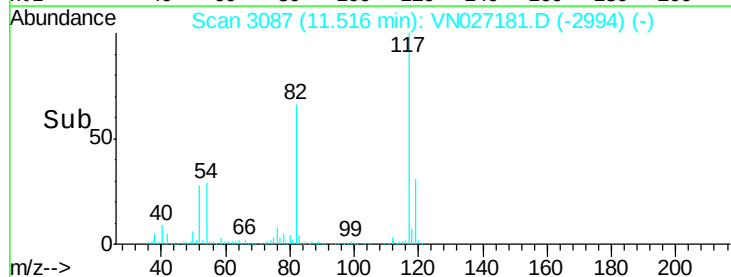
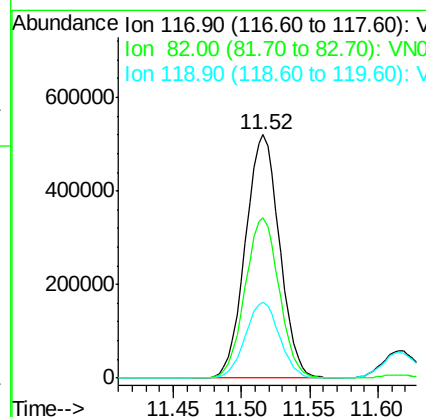
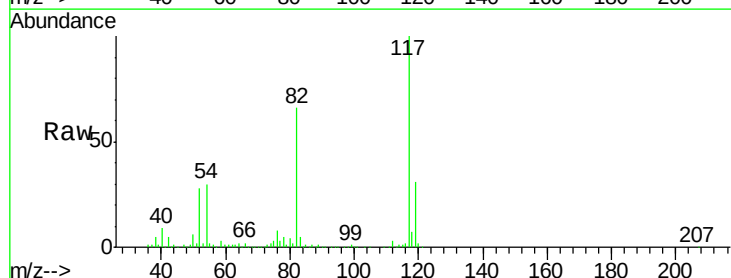
Manual Integrations
 APPROVED

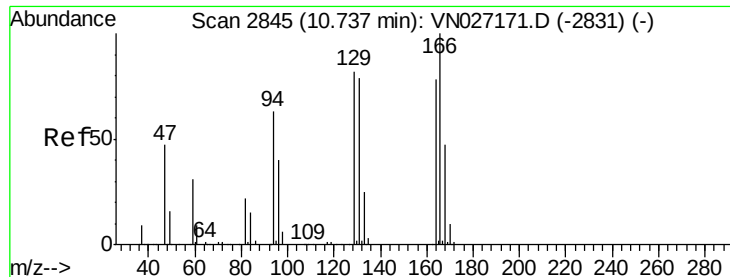
MMDadoda
 9/16/2015 11:47:44 AM



#64
 Chlorobenzene-d5
 Concen: 50.00 ug/l
 RT: 11.52 min Scan# 3087
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	903410		
82	65.7	49.6	74.4	
119	31.1	24.6	36.8	





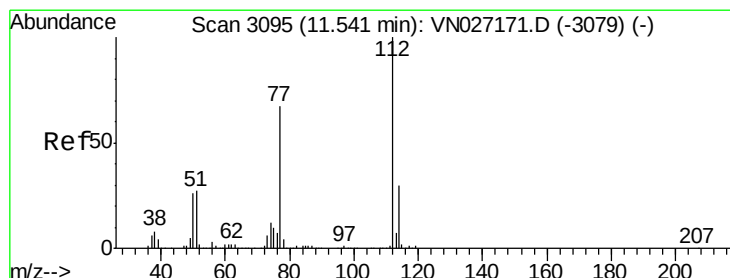
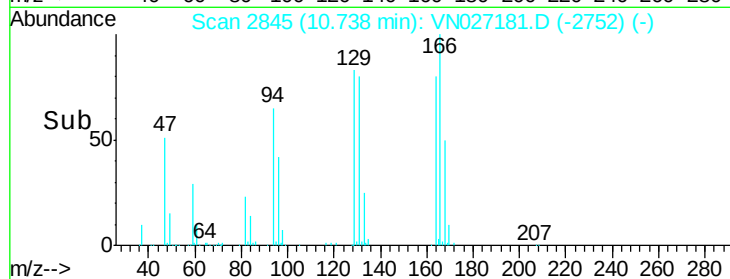
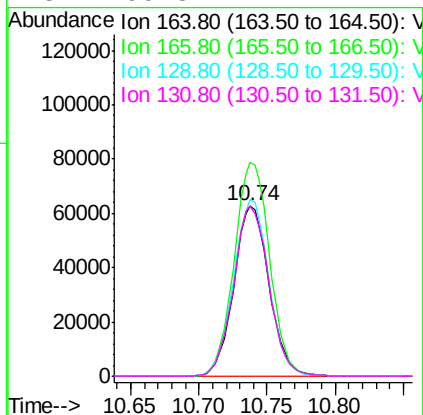
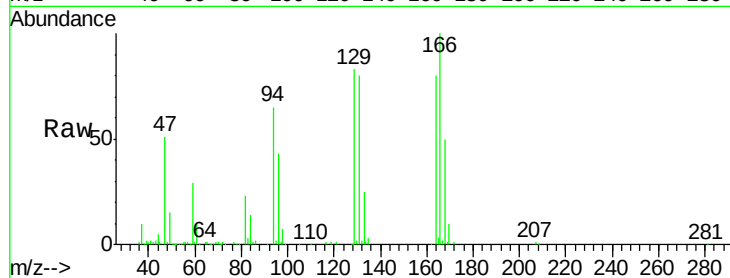
#65
Tetrachloroethene
Concen: 19.46 ug/l
RT: 10.74 min Scan# 2845
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion	Ratio	Lower	Upper
164	100		
166	125.2	103.4	155.0
129	103.3	77.5	116.3
131	99.8	74.2	111.4

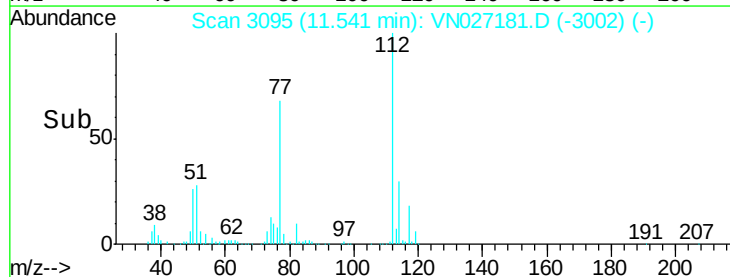
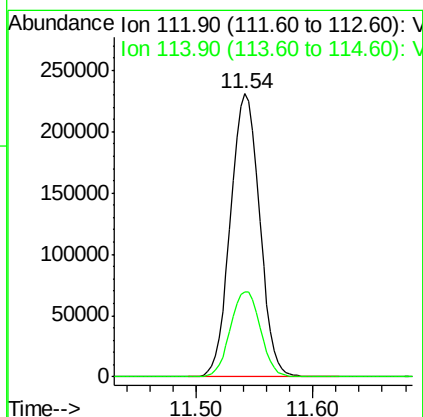
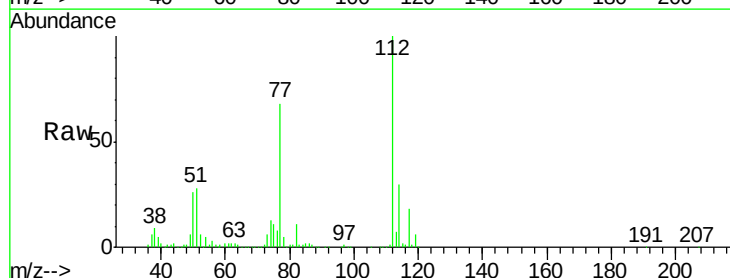
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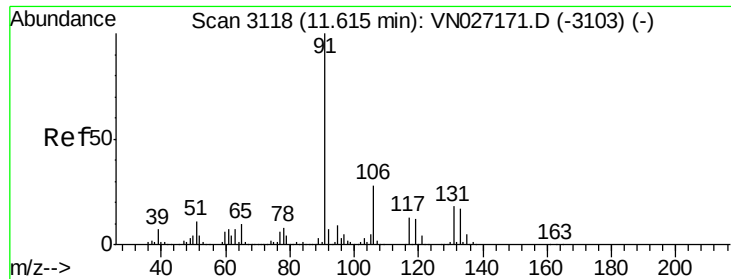
MMDadoda
9/16/2015 11:47:44 AM



#66
Chlorobenzene
Concen: 18.87 ug/l
RT: 11.54 min Scan# 3095
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Lower	Upper
112	100		
114	30.2	24.9	37.3





#67

1,1,1,2-Tetrachloroethane

Concen: 19.44 ug/l

RT: 11.62 min Scan# 3118

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

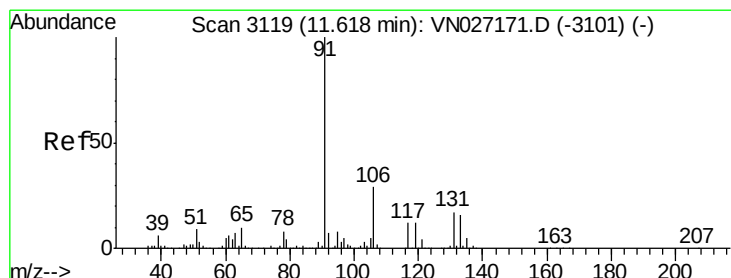
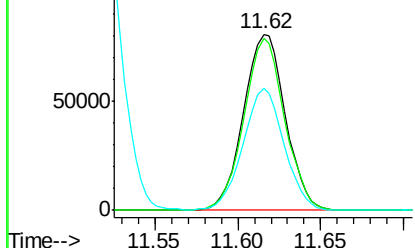
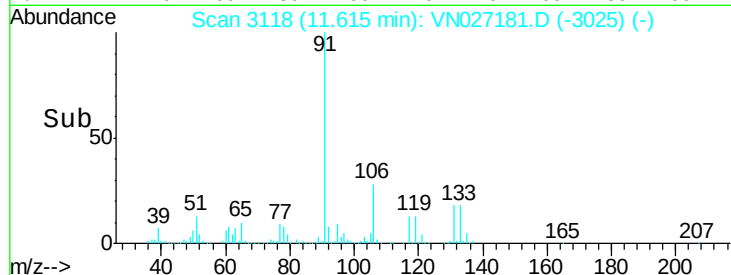
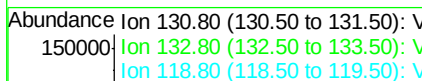
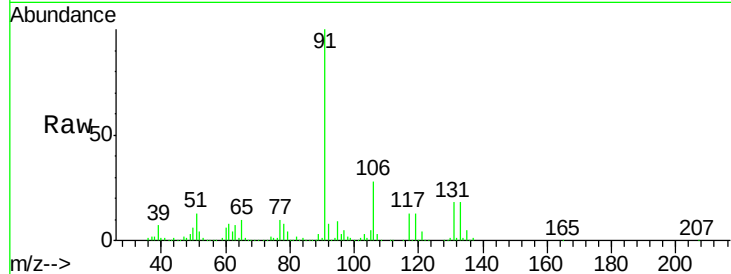
ClientSampleId :

VN0915WBSD01

Tot Ion:	131	Resp:	141449
Ion Ratio	Lower	Upper	
131	100		
133	95.2	47.0	141.2
119	68.0	35.1	105.5

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#68

Ethyl Benzene

Concen: 19.02 ug/l

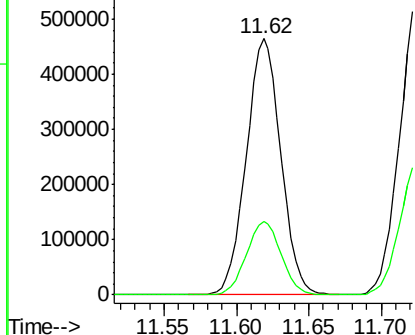
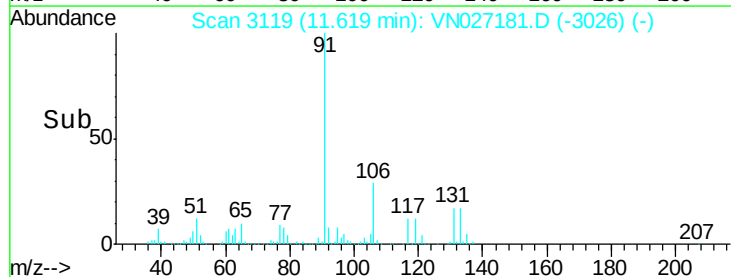
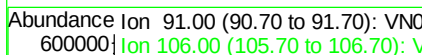
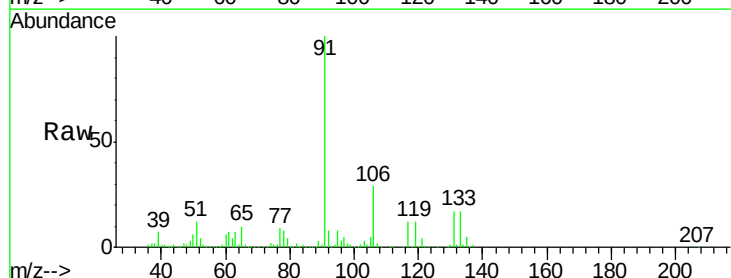
RT: 11.62 min Scan# 3119

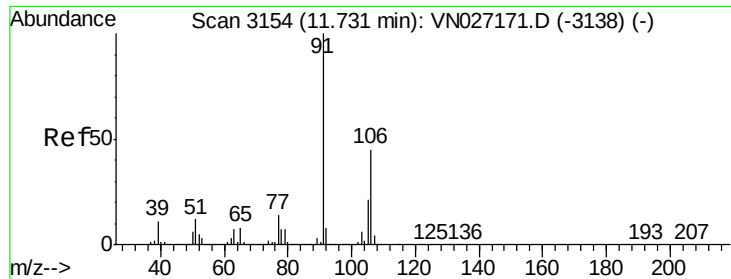
Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Tgt Ion:	91	Resp:	769167
Ion Ratio	Lower	Upper	
91	100		
106	28.6	23.1	34.7





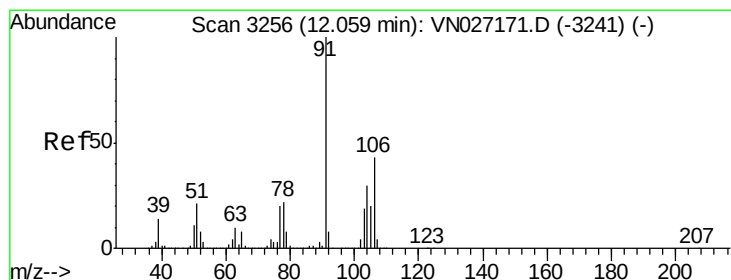
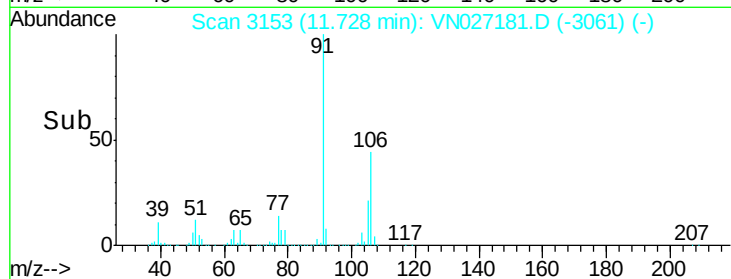
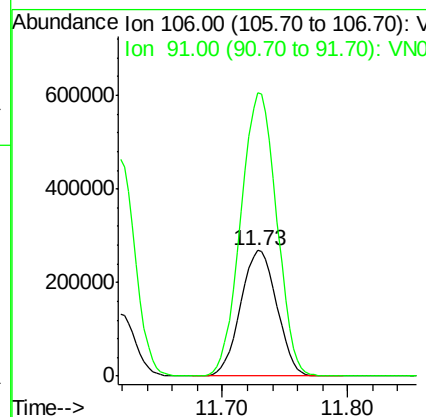
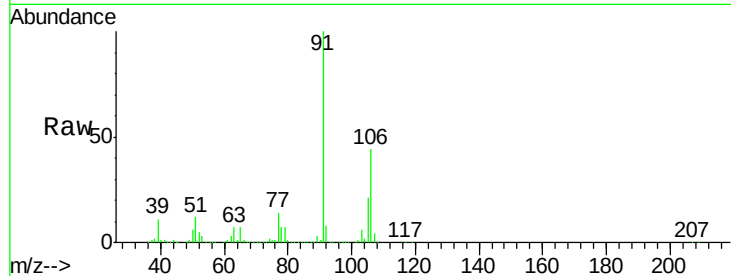
#69
m/p-Xylenes
Concen: 38.63 ug/l
RT: 11.73 min Scan# 3153
Delta R.T. -0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion:106 Resp: 539005
Ion Ratio Lower Upper
106 100
91 223.3 167.1 250.7

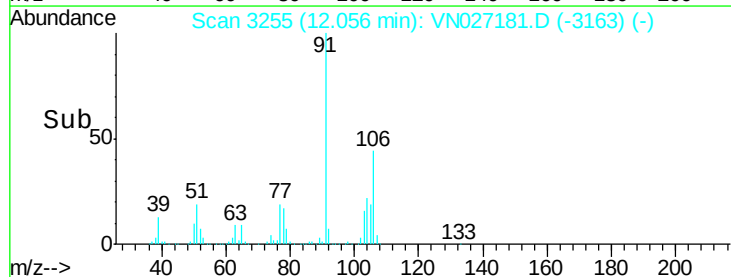
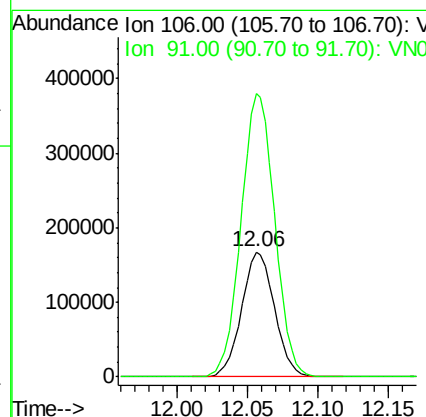
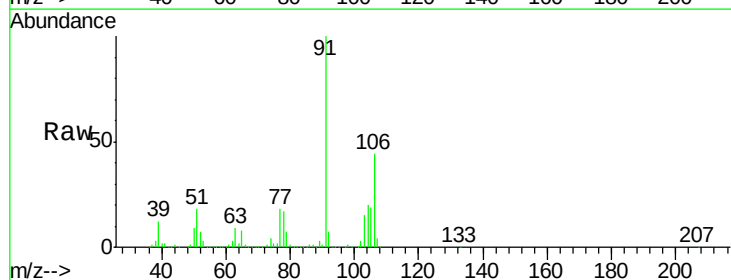
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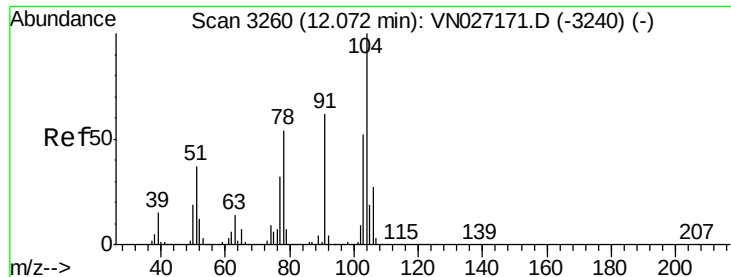
MMDadoda
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#70
o-Xylene
Concen: 19.55 ug/l
RT: 12.06 min Scan# 3255
Delta R.T. -0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion:106 Resp: 273470
Ion Ratio Lower Upper
106 100
91 231.1 110.7 331.9





#71

Stvrene

Concen: 19.36 ug/l

RT: 12.08 min Scan# 3261

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

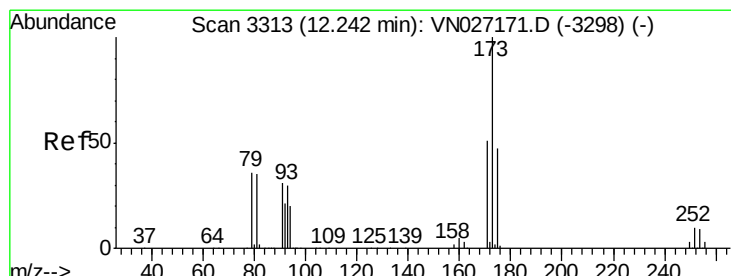
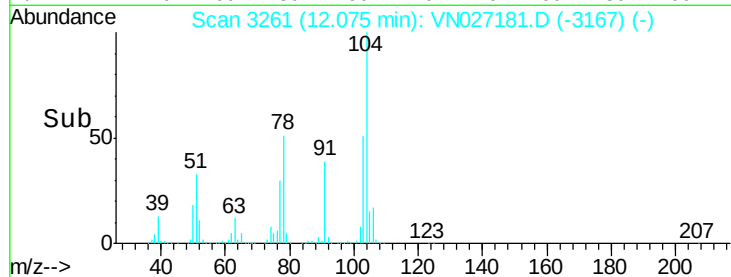
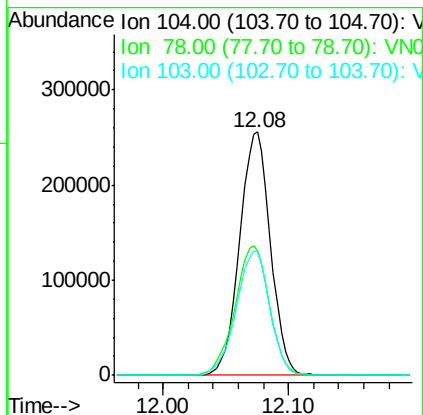
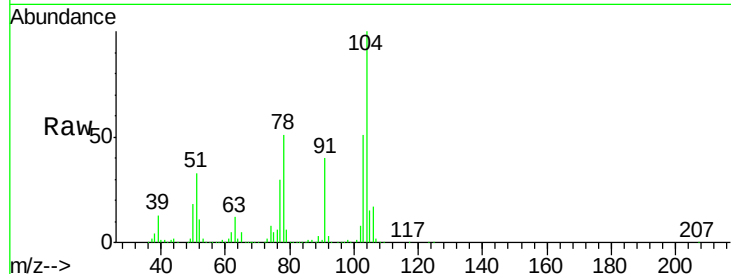
ClientSampleId :

VN0915WBSD01

Tot Ion:	104	Resp:	437228
Ion Ratio	Lower	Upper	
104	100		
78	59.0	41.6	62.4
103	55.8	44.2	66.2

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#72

Bromoform

Concen: 18.94 ug/l

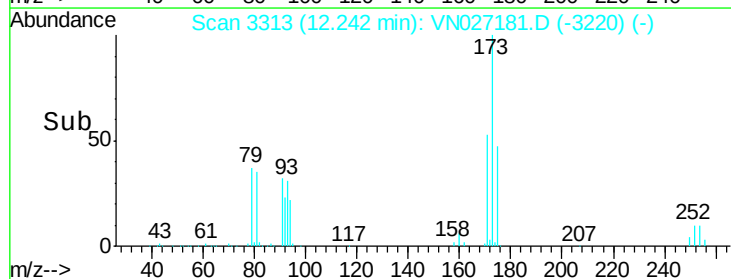
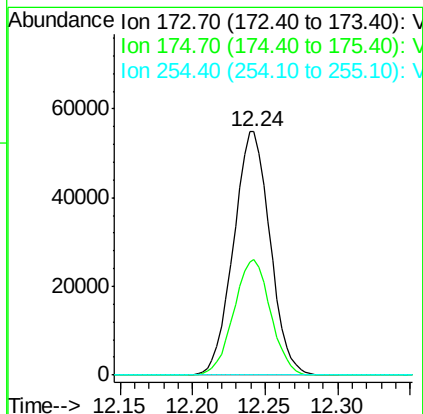
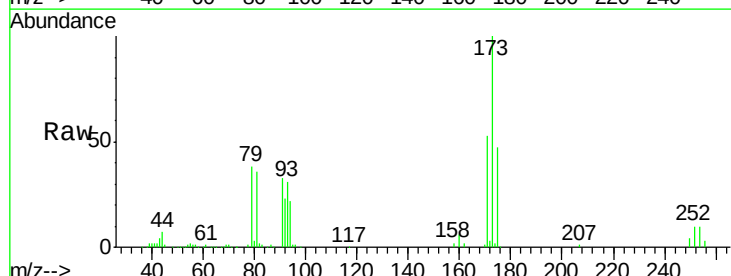
RT: 12.24 min Scan# 3313

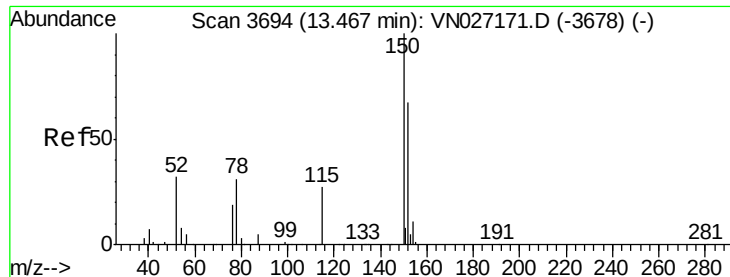
Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Tgt Ion:	173	Resp:	95844
Ion Ratio	Lower	Upper	
173	100		
175	47.7	24.4	73.4
254	0.0	0.1	0.1#





#73

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.47 min Scan# 3694

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

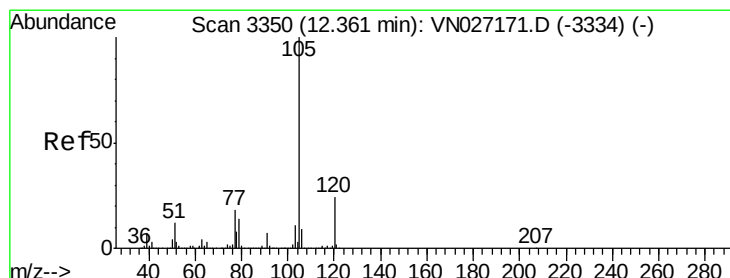
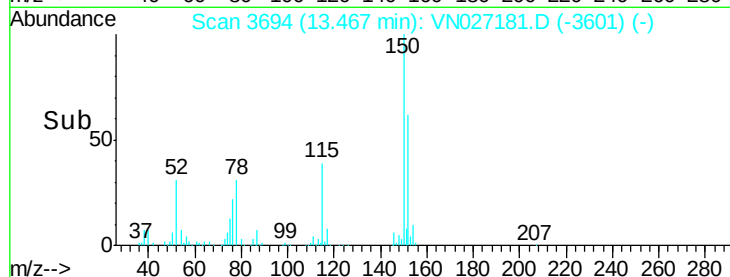
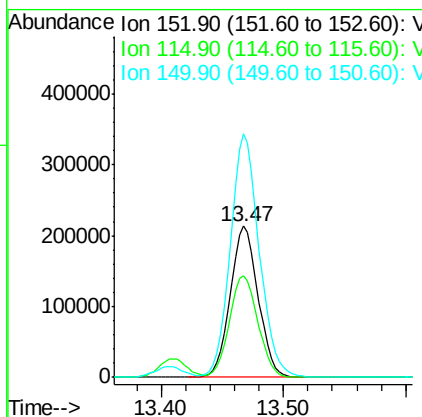
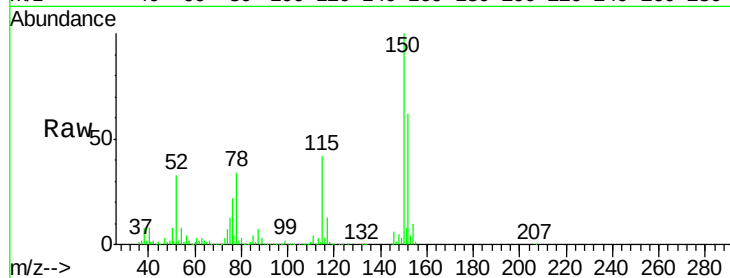
ClientSampleId :

VN0915WBSD01

Tot Ion:	152	Resp:	339753
Ion Ratio	Lower	Upper	
152	100		
115	68.5	30.8	92.3
150	165.7	0.0	345.0

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#74

Isopropylbenzene

Concen: 19.13 ug/l

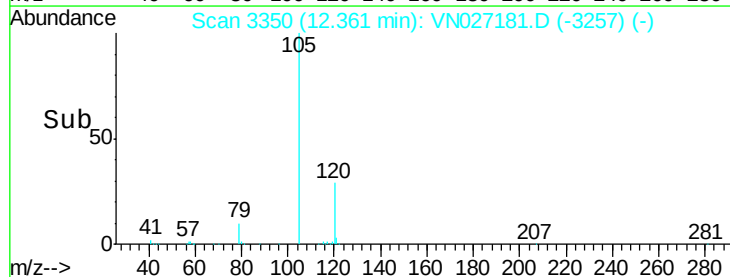
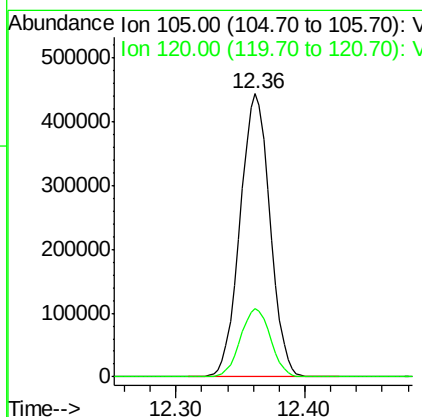
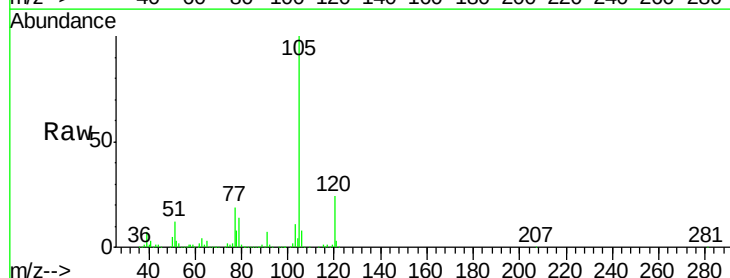
RT: 12.36 min Scan# 3350

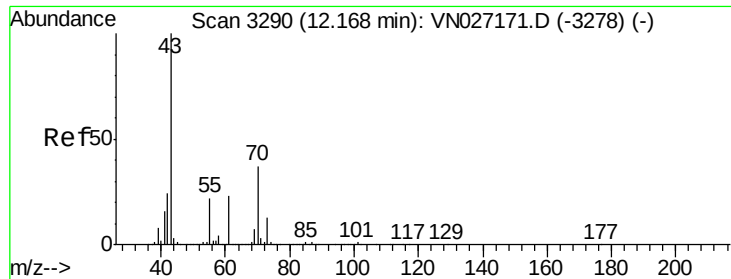
Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Tgt Ion:	105	Resp:	716171
Ion Ratio	Lower	Upper	
105	100		
120	24.3	12.4	37.2





#75

N-amvl acetate

Concen: 19.10 ug/l

RT: 12.17 min Scan# 3290

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

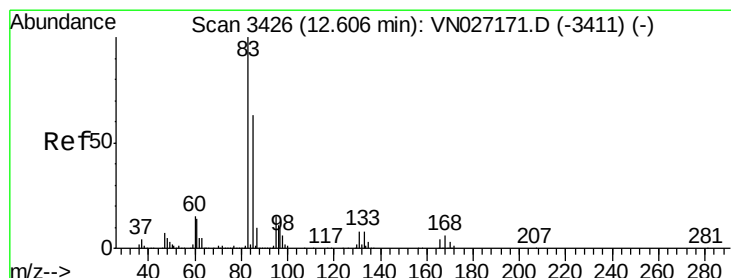
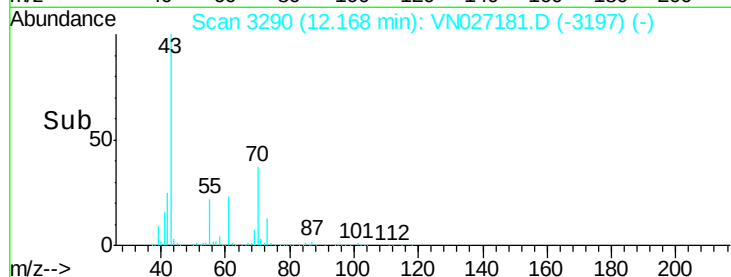
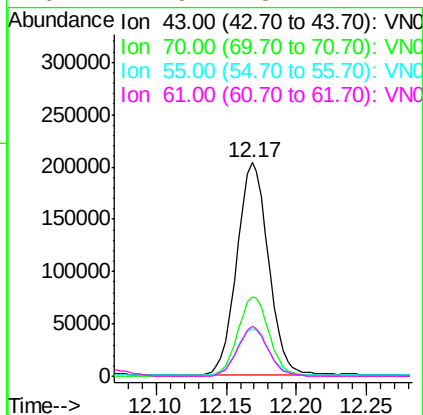
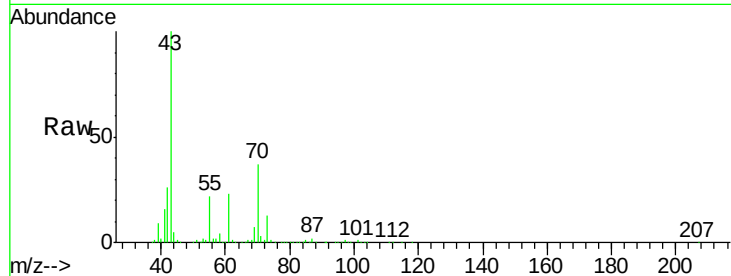
ClientSampleId :

VN0915WBSD01

Tot Ion	Ion	Ratio	Resp	Lower	Upper
43	100				
70	37.3	29.8	44.8		
55	22.3	19.4	29.0		
61	22.9	18.2	27.2		

Manual Integrations
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#76

1,1,2,2-Tetrachloroethane

Concen: 19.54 ug/l

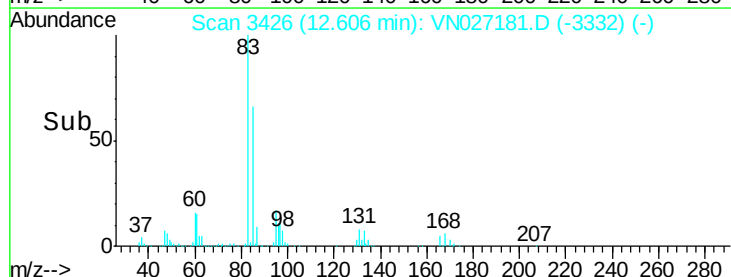
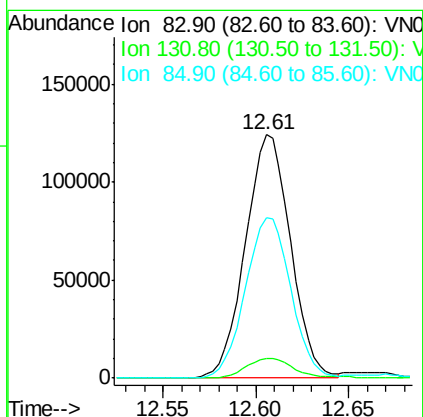
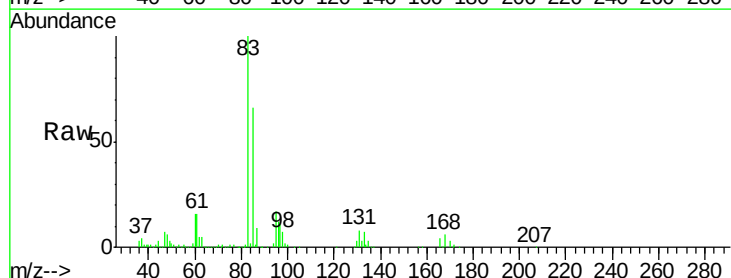
RT: 12.61 min Scan# 3426

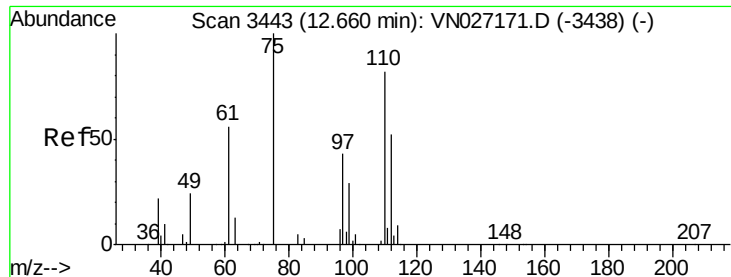
Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
83	100				
131	8.8	4.1	12.3		
85	66.5	31.9	95.7		





#77

1,2,3-Trichloropropane

Concen: 17.64 ug/l m

RT: 12.66 min Scan# 3443

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

ClientSampled :

VN0915WBSD01

Tot Ion: 75 Resp: 181179

Ion Ratio Lower Upper

75 100

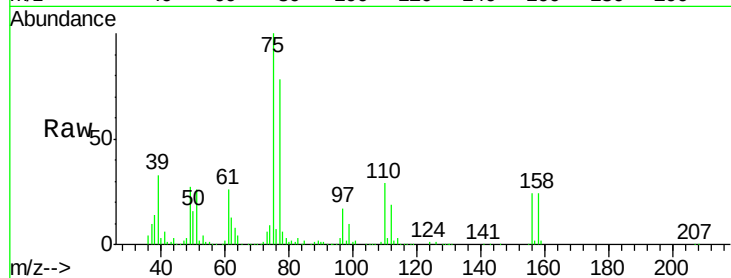
77 211.3 103.1 309.3

Manual Integrations

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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 77.00 (76.70 to 77.70): VN0

200000

150000

100000

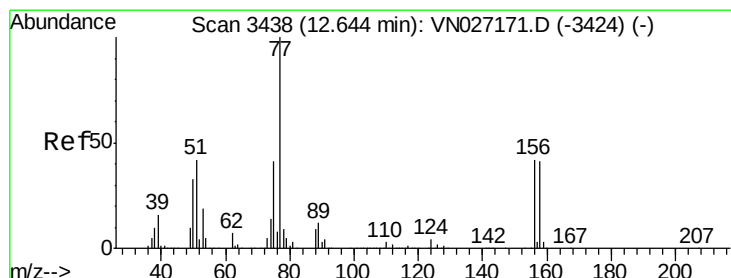
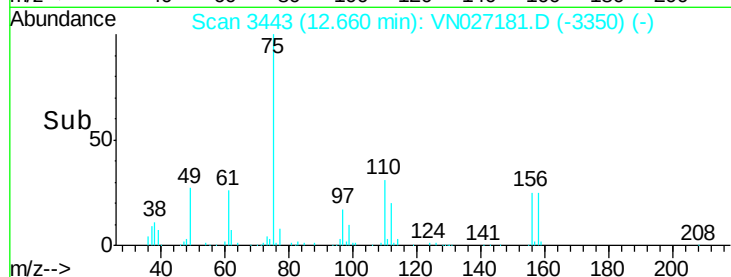
50000

0

12.65

12.70

Time-->



#78

Bromobenzene

Concen: 19.03 ug/l

RT: 12.64 min Scan# 3438

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

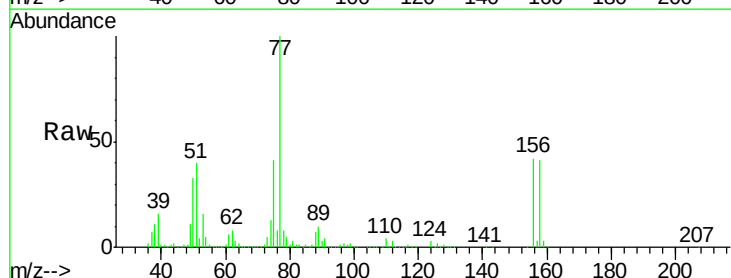
Tgt Ion: 156 Resp: 139709

Ion Ratio Lower Upper

156 100

77 274.1 127.3 381.9

158 98.5 48.0 144.2



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V

250000

200000

150000

100000

50000

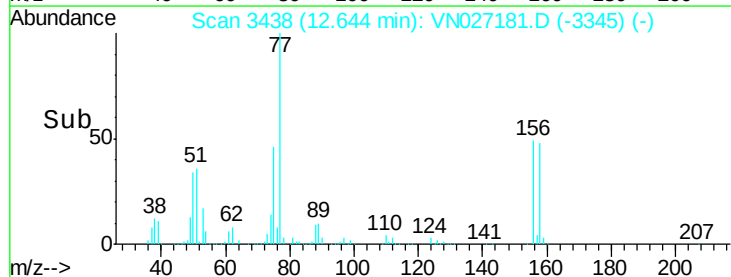
0

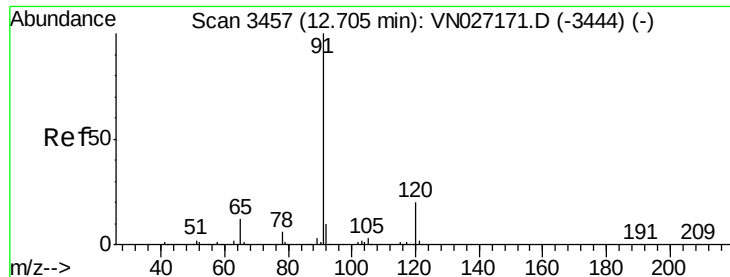
12.60

12.65

12.70

Time-->





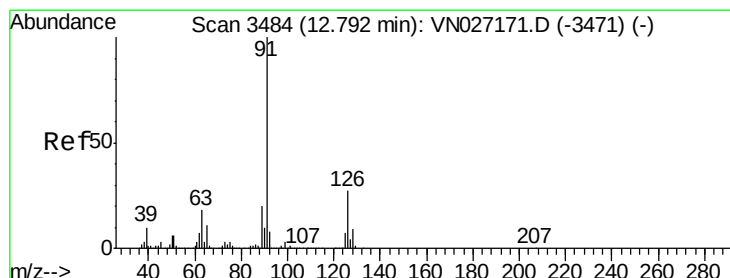
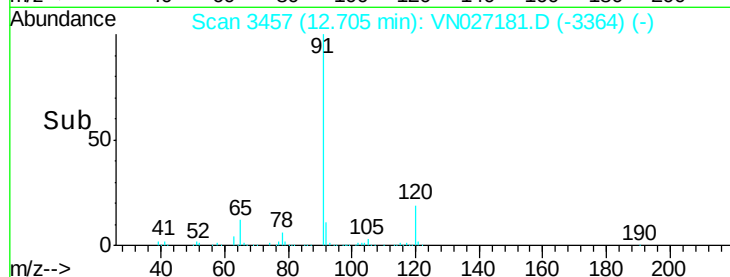
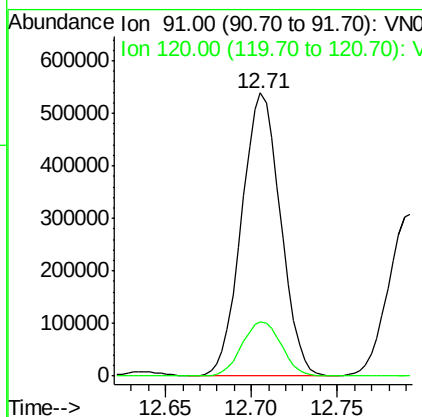
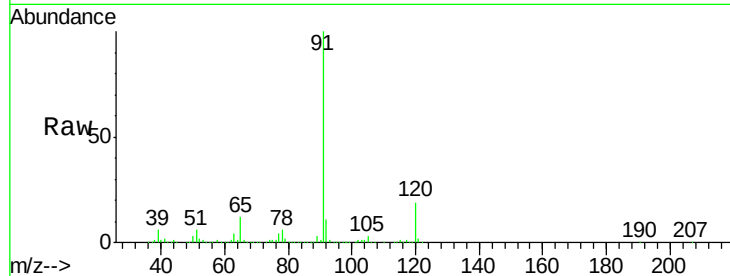
#79
n-propylbenzene
Concen: 19.14 ug/l
RT: 12.71 min Scan# 3457
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion: 91 Resp: 842881
Ion Ratio Lower Upper
91 100
120 19.7 10.3 30.8

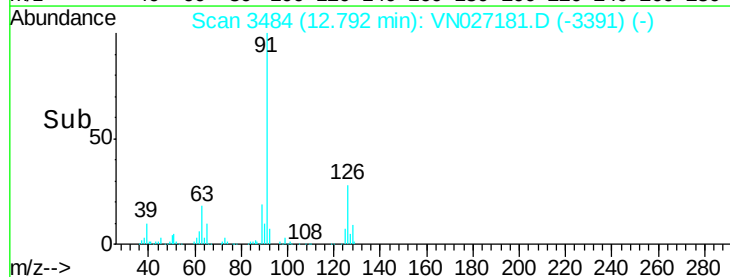
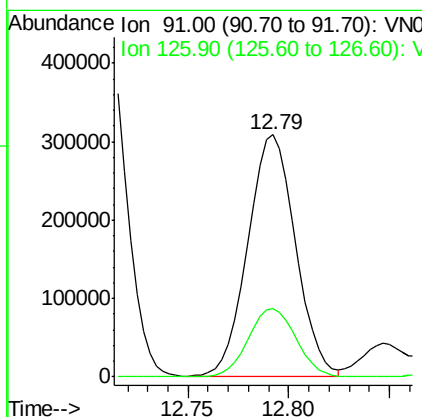
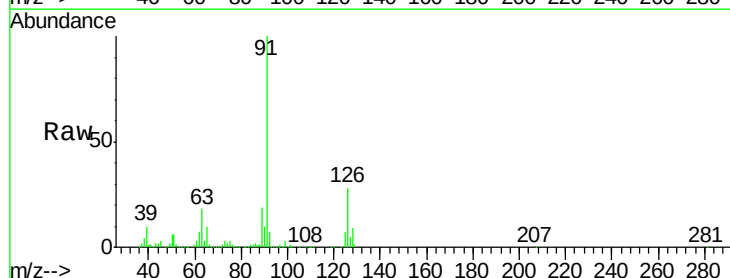
Manual Integrations
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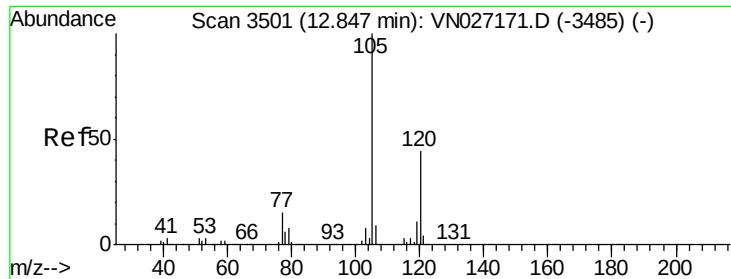
MMDadoda
9/16/2015 11:47:44 AM



#80
2-Chlorotoluene
Concen: 19.22 ug/l
RT: 12.79 min Scan# 3484
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion: 91 Resp: 508293
Ion Ratio Lower Upper
91 100
126 28.4 15.2 45.5





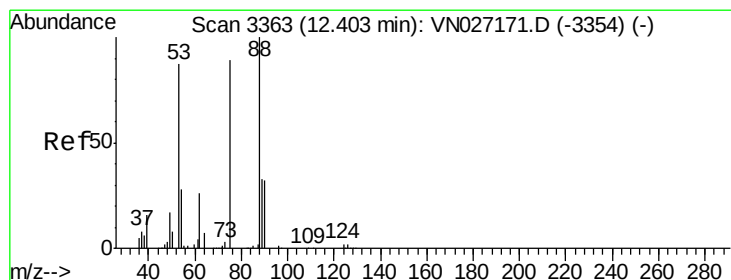
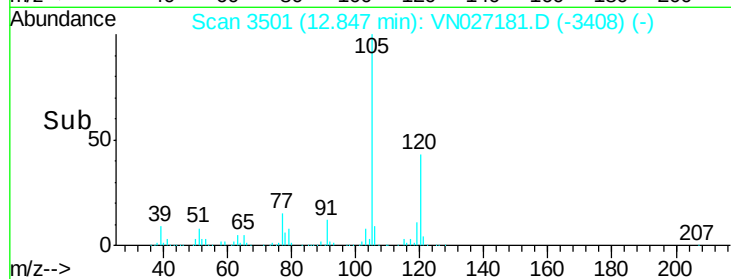
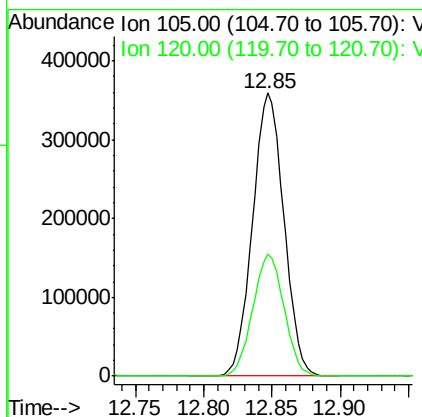
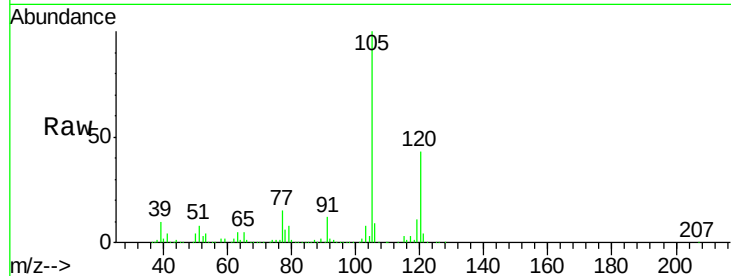
#81
 1,3,5-Trimethylbenzene
 Concen: 18.98 ug/l
 RT: 12.85 min Scan# 3501
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Instrument :
 MSVOA_N
 ClientSampled :
 VN0915WBSD01

Tot Ion	Ratio	Lower	Upper
105	100		
120	42.9	23.4	70.0

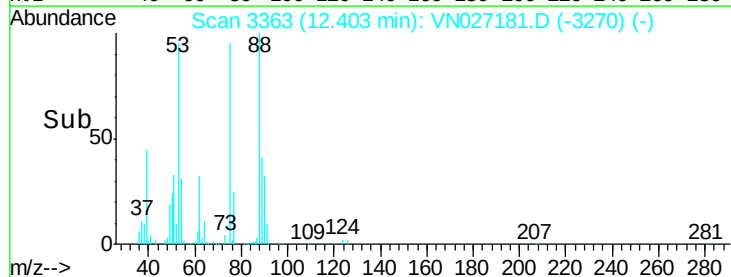
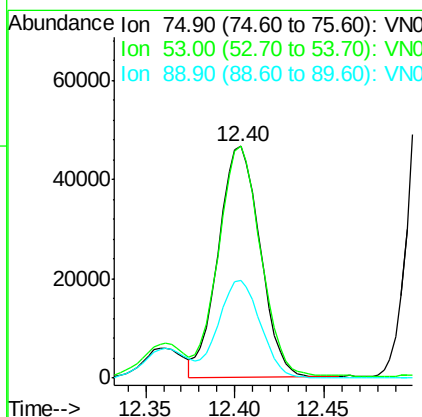
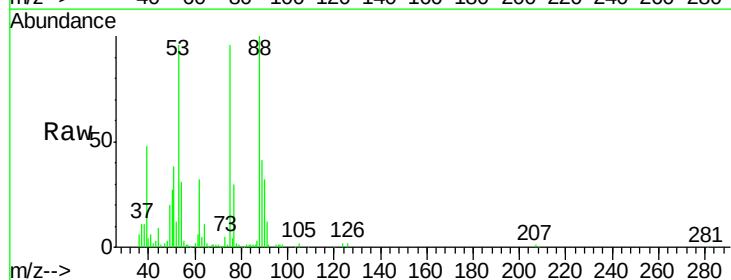
Manual Integrations
 APPROVED

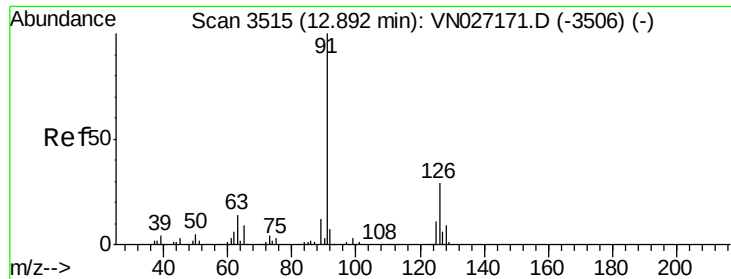
MMDadoda
 9/16/2015 11:47:44 AM



#82
 trans-1,4-Dichloro-2-butene
 Concen: 18.13 ug/l
 RT: 12.40 min Scan# 3363
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Lower	Upper
75	100		
53	99.6	92.9	139.3
89	42.8	34.2	51.4





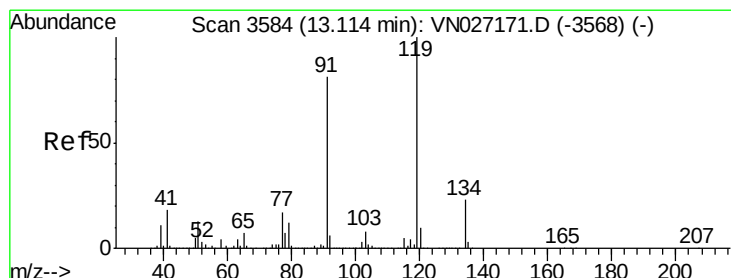
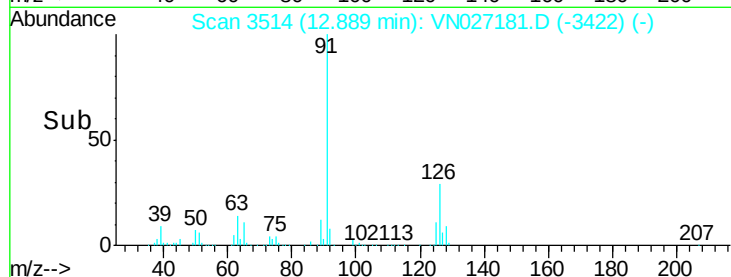
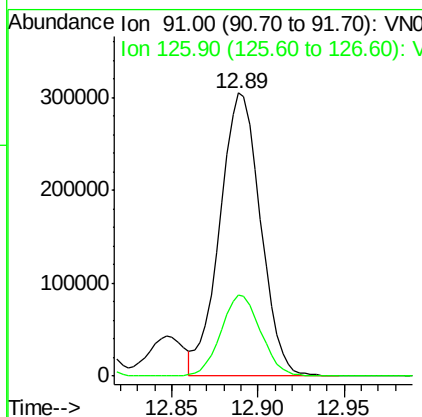
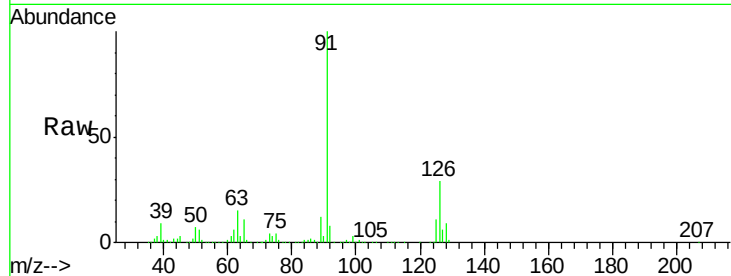
#83
4-Chlorotoluene
Concen: 19.17 ug/l
RT: 12.89 min Scan# 3514
Delta R.T. -0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
91	100	498235		
126	28.3	14.9	44.5	

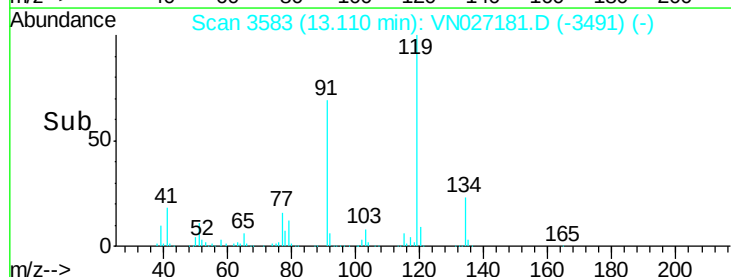
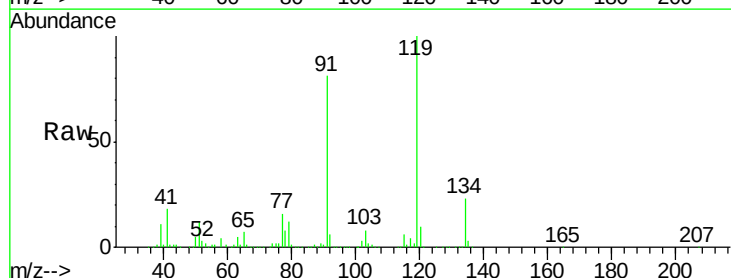
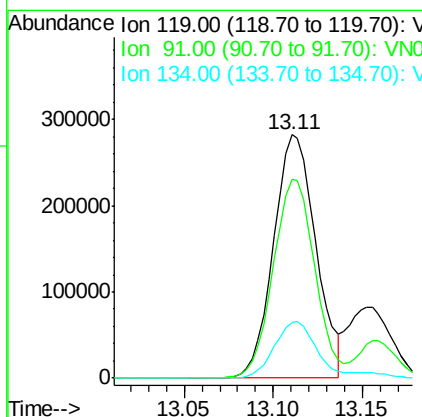
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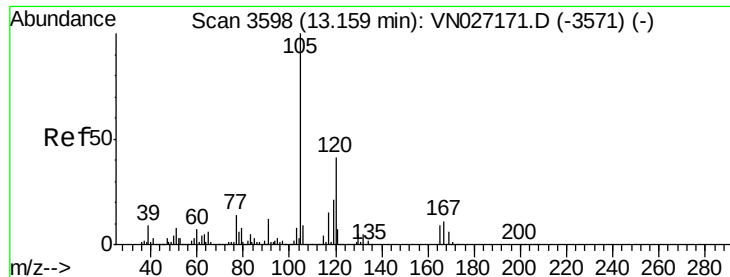
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#84
tert-Butylbenzene
Concen: 18.76 ug/l
RT: 13.11 min Scan# 3583
Delta R.T. -0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	465553		
91	80.2	34.6	103.8	
134	23.0	11.4	34.2	





#85

1,2,4-Trimethylbenzene

Concen: 19.02 ug/l

RT: 13.16 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

ClientSampleId :

VN0915WBSD01

Tot Ion:105 Resp: 574513

Ion Ratio Lower Upper

105 100

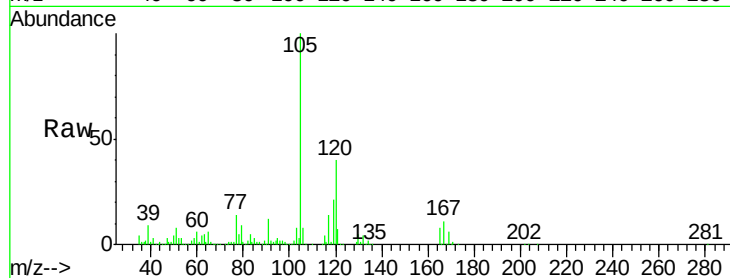
120 40.9 21.9 65.5

Manual Integrations

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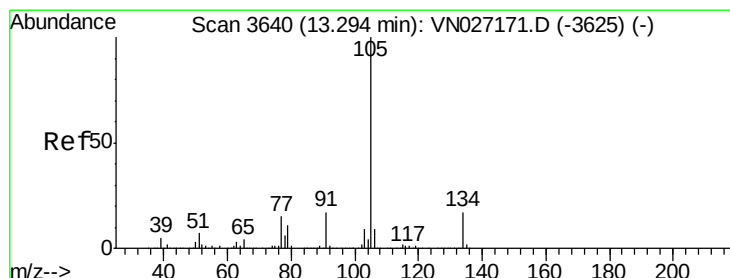
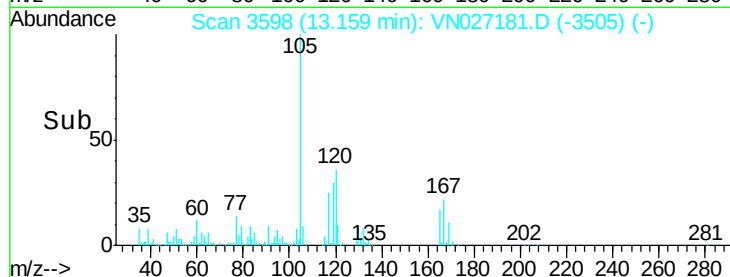
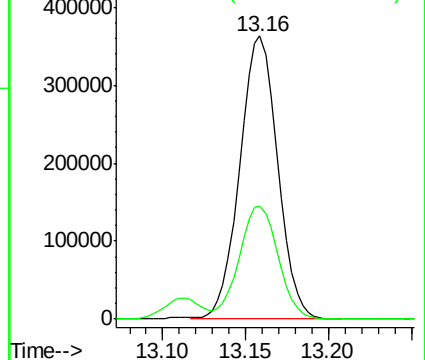
MMDadoda

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V



#86

sec-Butylbenzene

Concen: 19.17 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. -0.00 min

Lab File: VN027181.D

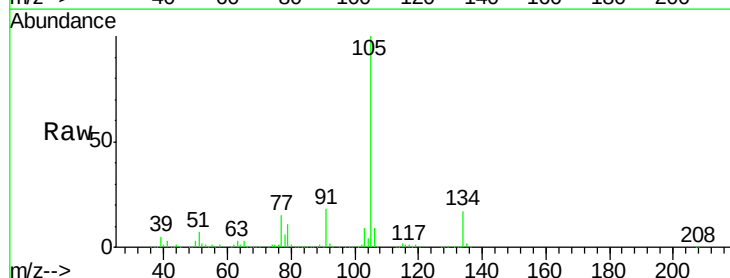
Acq: 15 Sep 2015 23:47

Tgt Ion:105 Resp: 696991

Ion Ratio Lower Upper

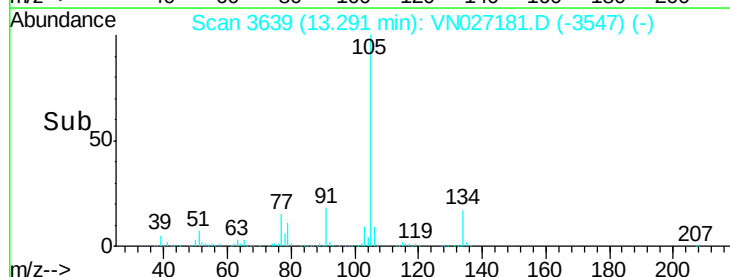
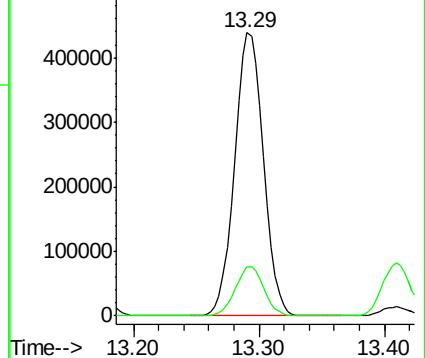
105 100

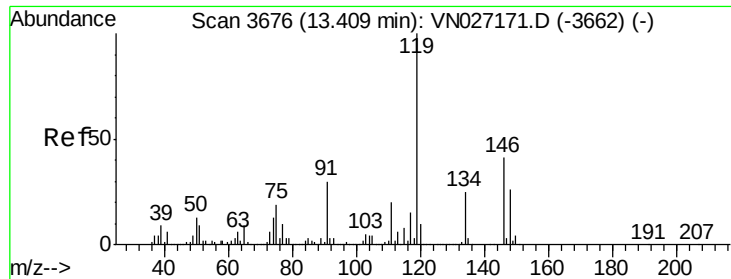
134 17.3 8.8 26.4



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V





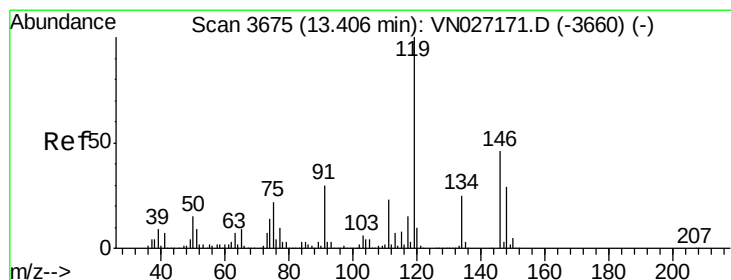
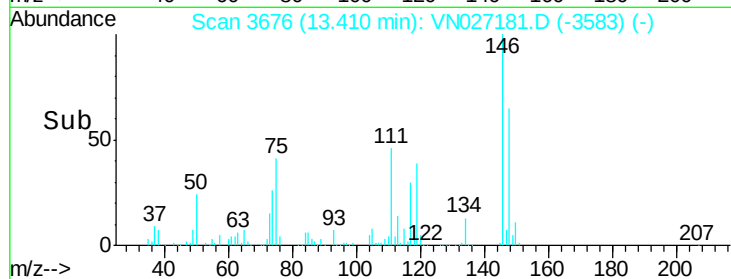
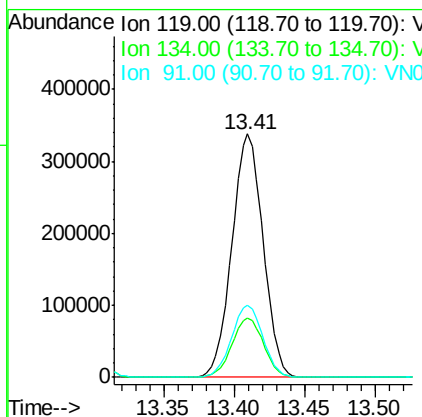
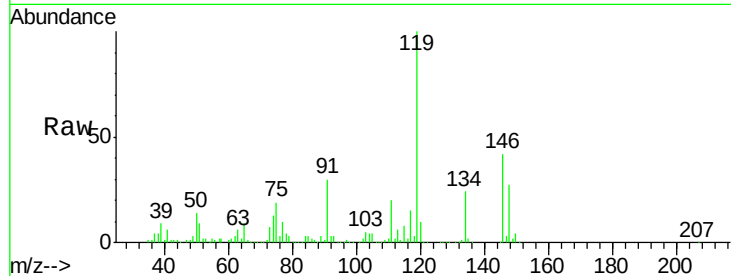
#87
 p-Isopropyltoluene
 Concen: 18.63 ug/l
 RT: 13.41 min Scan# 3676
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	521803		
134	24.7		12.4	37.0
91	29.7		12.0	36.1

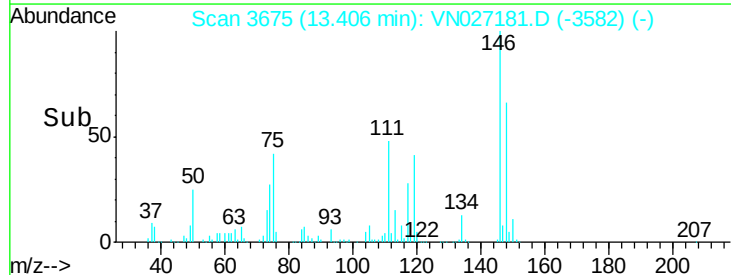
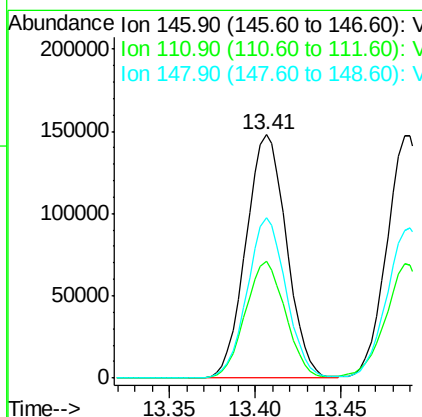
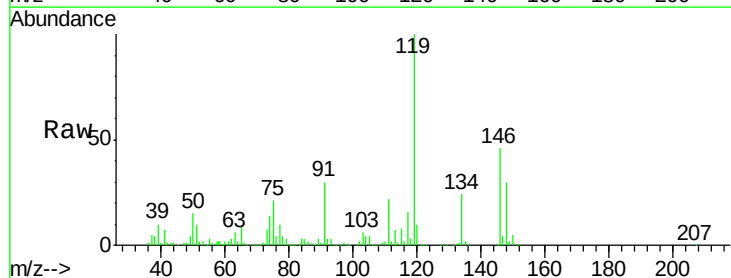
Manual Integrations
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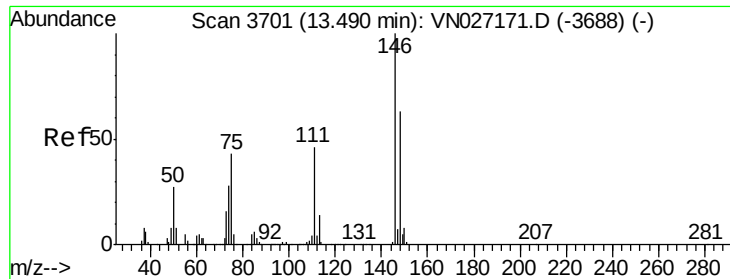
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#88
 1,3-Dichlorobenzene
 Concen: 19.27 ug/l
 RT: 13.41 min Scan# 3675
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	242129		
111	47.5		21.0	63.0
148	63.2		31.9	95.9





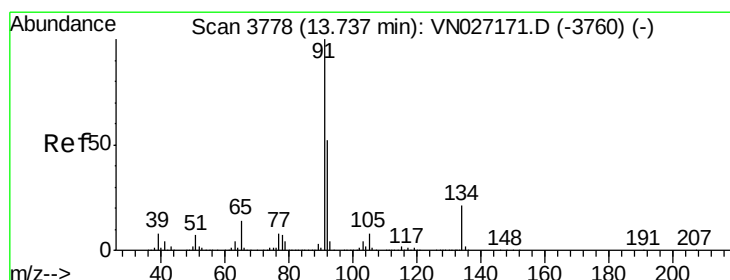
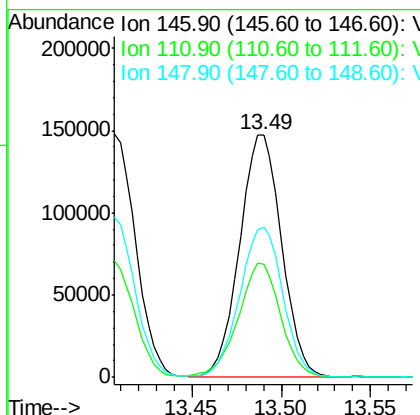
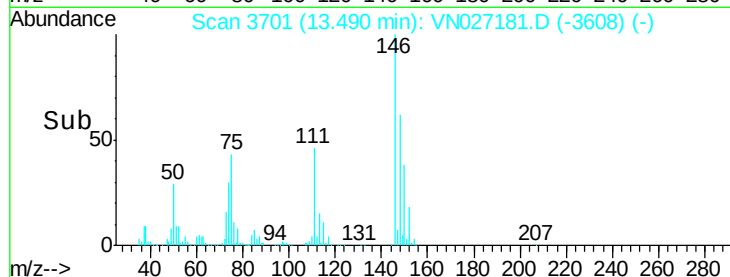
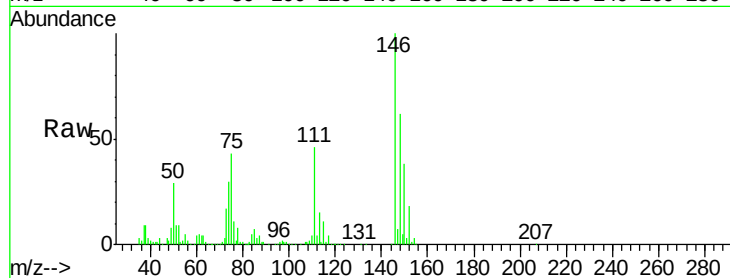
#89
 1,4-Dichlorobenzene
 Concen: 18.93 ug/l
 RT: 13.49 min Scan# 3701
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD01

Tot Ion	Ratio	Lower	Upper
146	100		
111	47.4	19.9	59.6
148	63.9	31.7	95.1

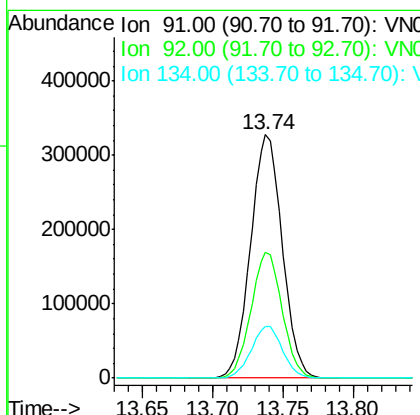
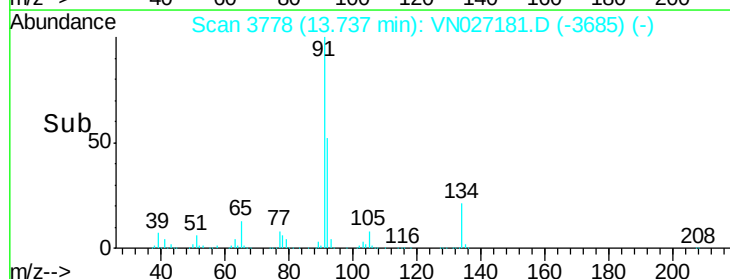
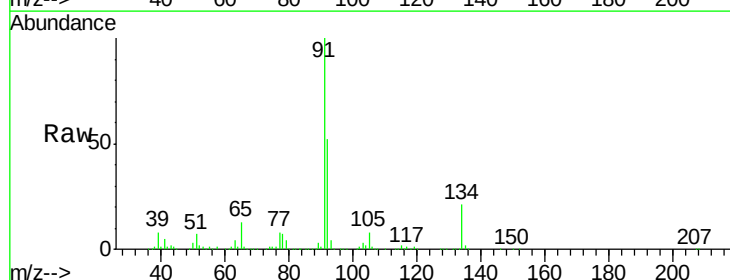
Manual Integrations
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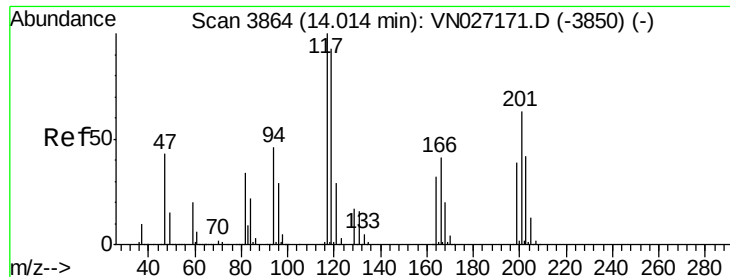
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#90
 n-Butylbenzene
 Concen: 18.87 ug/l
 RT: 13.74 min Scan# 3778
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Lower	Upper
91	100		
92	51.2	26.1	78.2
134	21.1	11.1	33.1





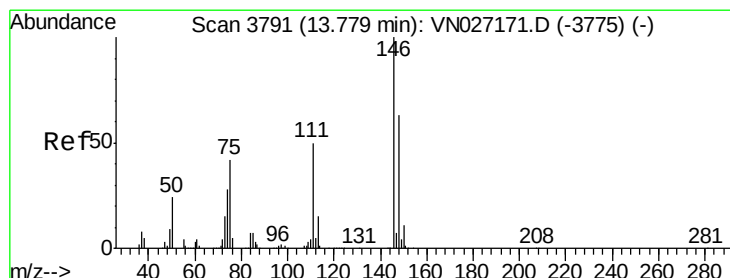
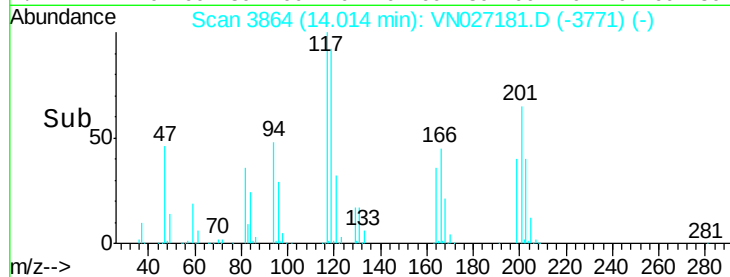
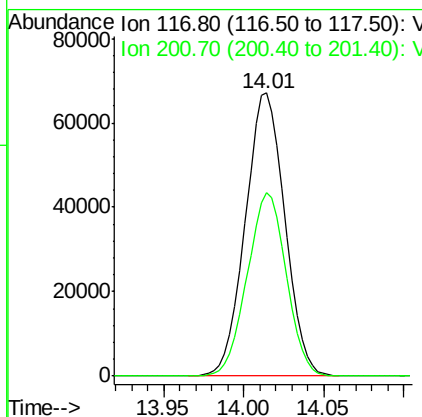
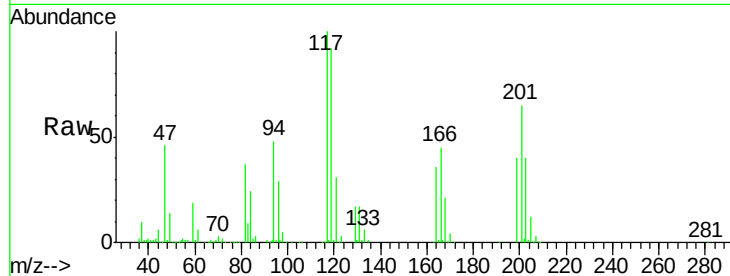
#91
Hexachloroethane
Concen: 18.56 ug/l
RT: 14.01 min Scan# 3864
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
117	100			
201	63.8	34.9	104.7	

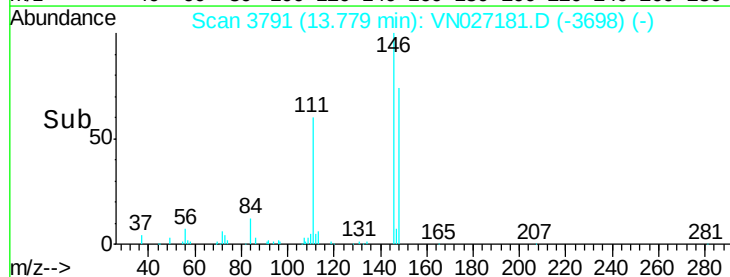
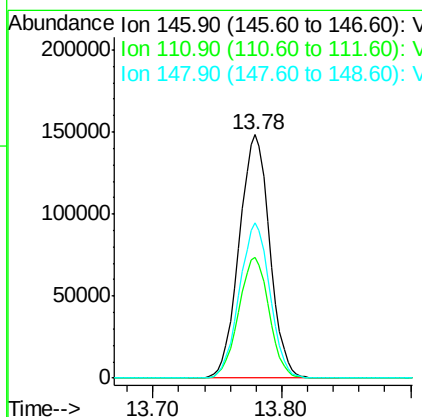
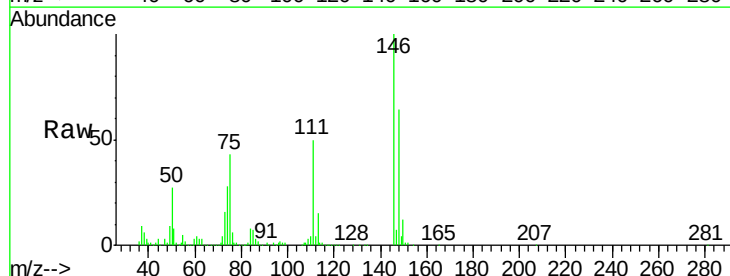
Manual Integrations
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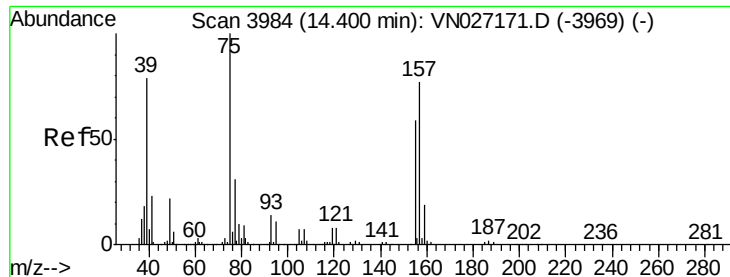
MMDadoda
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#92
1,2-Dichlorobenzene
Concen: 19.71 ug/l
RT: 13.78 min Scan# 3791
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
146	100			
111	49.5	22.1	66.3	
148	63.8	32.0	96.0	





#93

1,2-Dibromo-3-Chloropropane

Concen: 18.67 ug/l

RT: 14.40 min Scan# 3984

Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Instrument :

MSVOA_N

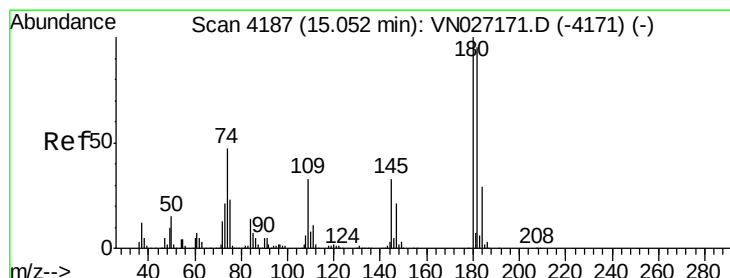
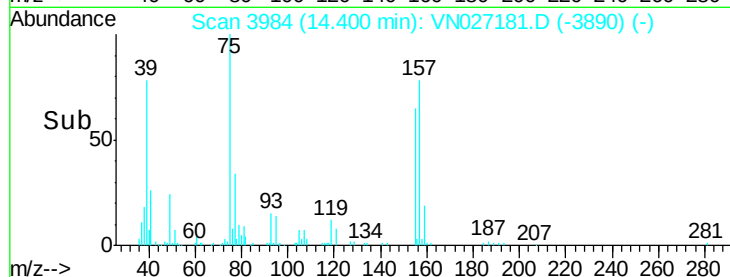
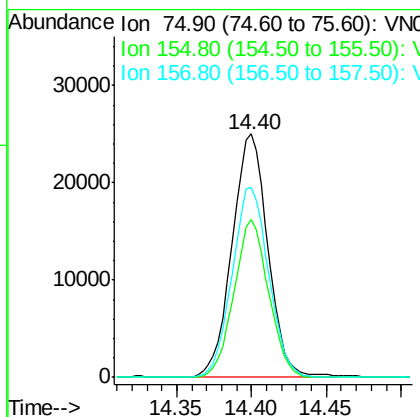
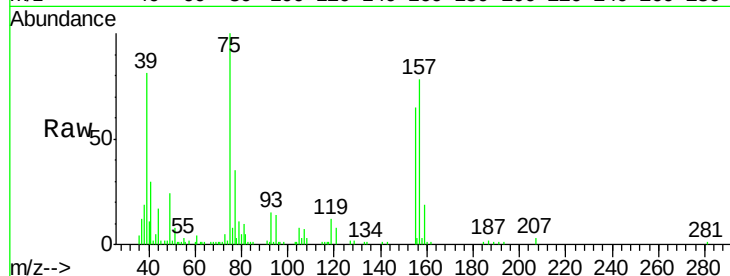
ClientSampleId :

VN0915WBSD01

Tot Ion:	75	Resp:	41771
Ion Ratio	Lower	Upper	
75	100		
155	62.2	35.6	106.9
157	79.3	44.6	133.8

Manual Integrations
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#94

1,2,4-Trichlorobenzene

Concen: 19.22 ug/l

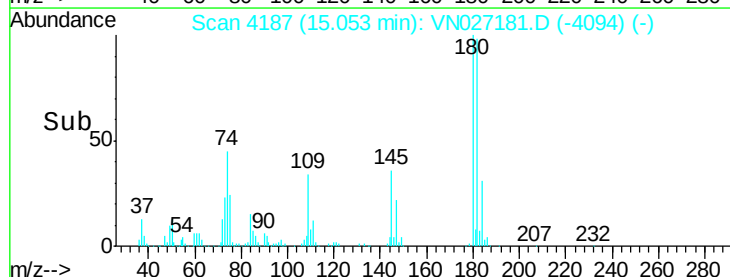
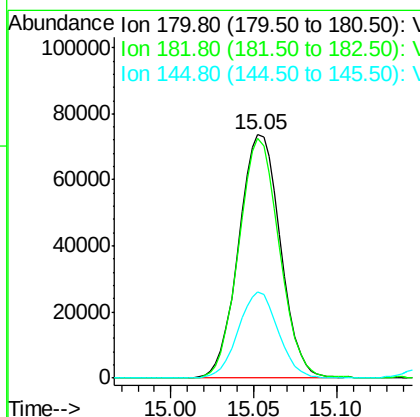
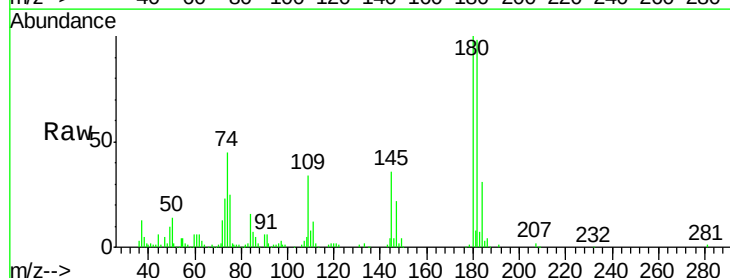
RT: 15.05 min Scan# 4187

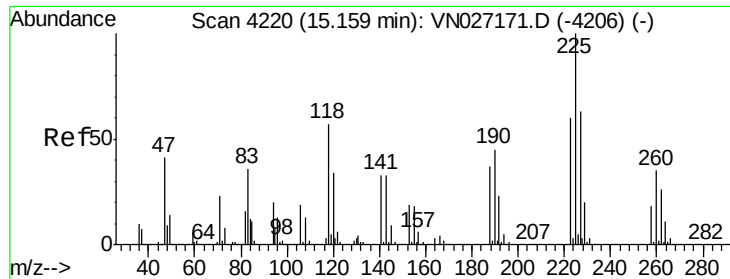
Delta R.T. 0.00 min

Lab File: VN027181.D

Acq: 15 Sep 2015 23:47

Tgt Ion:	180	Resp:	128905
Ion Ratio	Lower	Upper	
180	100		
182	95.9	47.5	142.5
145	34.1	15.1	45.3





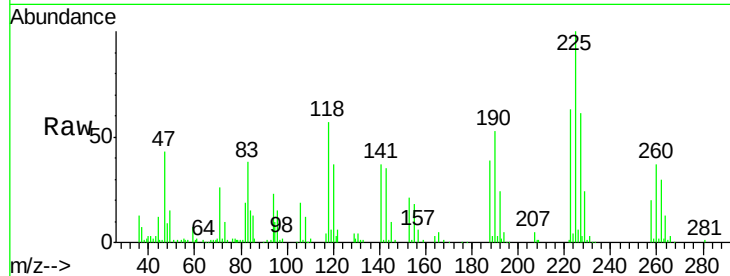
#95
Hexachlorobutadiene
Concen: 19.08 ug/l
RT: 15.16 min Scan# 4220
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Instrument :
MSVOA_N
ClientSampleId :
VN0915WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
225	100	67386		
223	62.8		30.8	92.3
227	62.8		31.7	95.1

Manual Integrations
APPROVED

MMDadoda
9/16/2015 11:47:44 AM

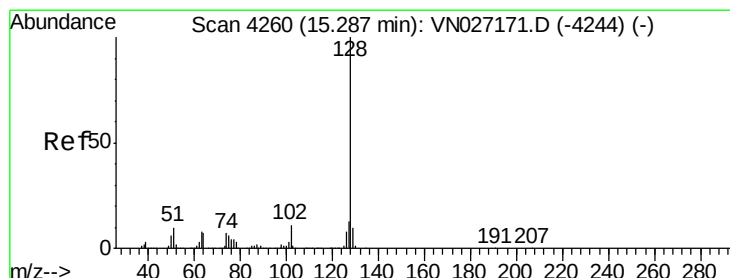
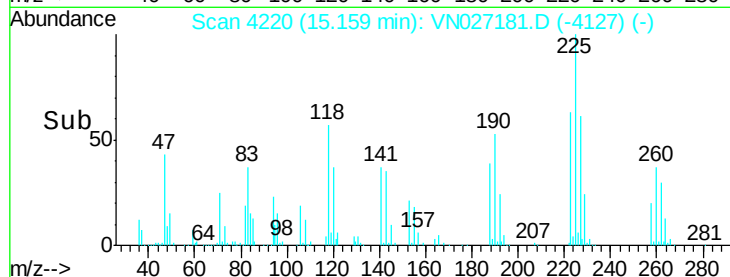
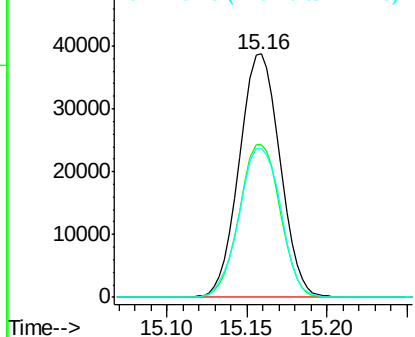


Abundance

Ion 224.70 (224.40 to 225.40): V

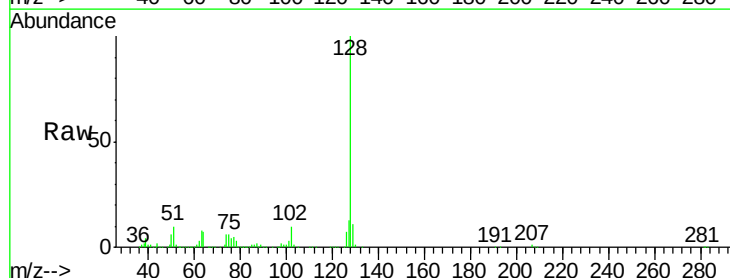
Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V



#96
Naphthalene
Concen: 19.31 ug/l
RT: 15.29 min Scan# 4260
Delta R.T. 0.00 min
Lab File: VN027181.D
Acq: 15 Sep 2015 23:47

Tgt Ion	Ratio	Resp	Lower	Upper
128	100	379756		
127	12.9		10.4	15.6
129	10.9		8.6	12.8

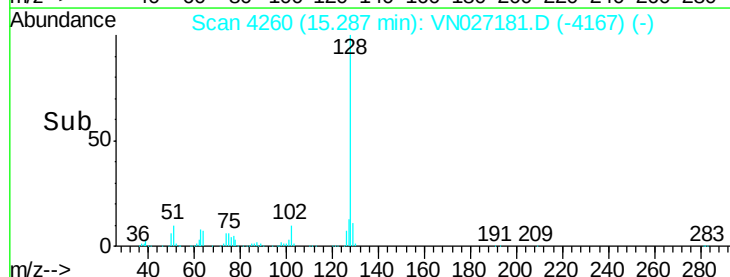
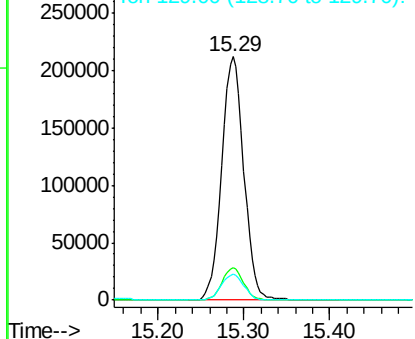


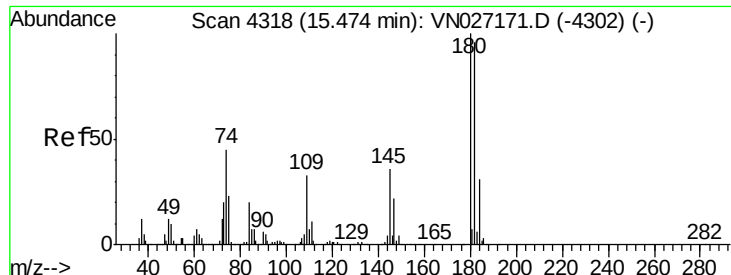
Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 127.00 (126.70 to 127.70): V

Ion 129.00 (128.70 to 129.70): V





#97
 1,2,3-Trichlorobenzene
 Concen: 19.52 ug/l
 RT: 15.47 min Scan# 4318
 Delta R.T. 0.00 min
 Lab File: VN027181.D
 Acq: 15 Sep 2015 23:47

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0915WBSD01

Tot Ion	Ratio	Resp	Lower	Upper
180	100	130137		
182	95.1	48.8	146.4	
145	35.2	16.6	49.8	

Manual Integrations
 APPROVED

MMDadoda
 9/16/2015 11:47:44 AM

