

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN071318\
 Data File : VN049816.D
 Acq On : 14 Jul 2018 00:21
 Operator : MD\SY
 Sample : VN0713WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD02

Manual Integrations
 APPROVED

MMDadoda
 7/16/2018 11:02:50 AM

Quant Time: Jul 14 01:53:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	1104269	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1670129	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	1504439	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	740349	50.00	ug/l	0.00

System Monitoring Compounds	R.T.	QIon	Response	Conc	Units	Dev(Min)
33) 1,2-Dichloroethane-d4	8.03	65	664613	51.74	ug/l	0.00
Spiked Amount			Recovery	=	103.48%	
35) Dibromofluoromethane	7.59	113	622833	49.47	ug/l	0.00
Spiked Amount			Recovery	=	98.94%	
50) Toluene-d8	10.09	98	2041724	47.38	ug/l	0.00
Spiked Amount			Recovery	=	94.76%	
62) 4-Bromofluorobenzene	12.40	95	719417	46.74	ug/l	0.00
Spiked Amount			Recovery	=	93.48%	

Target Compounds	R.T.	QIon	Response	Conc	Units	Qvalue
2) Dichlorodifluoromethane	1.85	85	190836	19.14	ug/l	97
3) Chloromethane	2.06	50	255988	19.53	ug/l	100
4) Vinyl Chloride	2.18	62	288620	20.22	ug/l	99
5) Bromomethane	2.57	94	178531	19.83	ug/l	100
6) Chloroethane	2.70	64	187821	19.12	ug/l	98
7) Trichlorofluoromethane	3.01	101	410443	19.60	ug/l	99
8) Diethyl Ether	3.41	74	143458	19.12	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	254030	18.69	ug/l	99
10) Methyl Iodide	3.95	142	333138	19.29	ug/l	98
11) Tert butyl alcohol	4.80	59	81430	94.71	ug/l #	88
12) 1,1-Dichloroethene	3.74	96	225226	18.86	ug/l	98
13) Acrolein	3.61	56	55528	73.53	ug/l	97
14) Allyl chloride	4.33	41	353941	18.16	ug/l	97
15) Acrylonitrile	5.00	53	424281	98.54	ug/l	99
16) Acetone	3.82	43	297370	92.75	ug/l	99
17) Carbon Disulfide	4.05	76	582437	18.77	ug/l	97
18) Methyl Acetate	4.33	43	236942	21.67	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	644392	19.45	ug/l	98
20) Methylene Chloride	4.55	84	280711	20.76	ug/l	97
21) trans-1,2-Dichloroethene	5.05	96	246547	18.89	ug/l	99
22) Diisopropyl ether	5.96	45	811099	20.26	ug/l	99
23) Vinyl Acetate	5.90	43	2587096	96.44	ug/l	100
24) 1,1-Dichloroethane	5.85	63	496306	19.74	ug/l	100
25) 2-Butanone	6.84	43	458975	91.69	ug/l	100
26) 2,2-Dichloropropane	6.83	77	321319	15.39	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	287225	19.24	ug/l	97
28) Bromochloromethane	7.20	49	228290	19.96	ug/l	99
29) Tetrahydrofuran	7.22	42	301346	95.86	ug/l	99
30) Chloroform	7.37	83	510088	19.69	ug/l	99
31) Cyclohexane	7.66	56	376981	18.67	ug/l	96
32) 1,1,1-Trichloroethane	7.57	97	434365	19.74	ug/l	99
36) 1,1-Dichloropropene	7.80	75	353368	18.36	ug/l	99
37) Ethyl Acetate	6.94	43	212901	18.69	ug/l	99
38) Carbon Tetrachloride	7.78	117	376643	18.72	ug/l	98

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MMDadoda
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Quant Time: Jul 14 01:53:35 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
 Quant Title : SW846 8260
 QLast Update : Thu Jul 12 15:51:38 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	341913	16.85	ug/l	96
40) Benzene	8.04	78	1103835	19.17	ug/l	100
41) Methacrylonitrile	7.18	41	121268	18.82	ug/l	97
42) 1,2-Dichloroethane	8.13	62	356868	18.95	ug/l	100
43) Isopropyl Acetate	8.17	43	456082	22.27	ug/l	97
44) Trichloroethene	8.84	130	288274	18.59	ug/l	98
45) 1,2-Dichloropropane	9.12	63	297635	19.24	ug/l	100
46) Dibromomethane	9.21	93	175565	19.10	ug/l	99
47) Bromodichloromethane	9.40	83	386129	19.08	ug/l	100
48) Methyl methacrylate	9.20	41	191160	18.67	ug/l	99
49) 1,4-Dioxane	9.20	88	50260	374.66	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	1084296	97.53	ug/l	99
52) Toluene	10.16	92	670285	19.45	ug/l	98
53) t-1,3-Dichloropropene	10.38	75	350257	17.99	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	408470	18.42	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	259100	19.46	ug/l	98
56) Ethyl methacrylate	10.43	69	291466	18.74	ug/l	97
57) 1,3-Dichloropropane	10.71	76	416930	18.99	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	708496	94.98	ug/l	99
59) 2-Hexanone	10.75	43	689402	93.27	ug/l	97
60) Dibromochloromethane	10.90	129	284751	18.86	ug/l	99
61) 1,2-Dibromoethane	11.01	107	242703	19.35	ug/l	98
64) Tetrachloroethene	10.63	164	260055	19.04	ug/l	99
65) Chlorobenzene	11.44	112	742620	18.95	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	288980	19.60	ug/l	99
67) Ethyl Benzene	11.51	91	1206889	18.80	ug/l	100
68) m/p-Xylenes	11.62	106	940966	39.06	ug/l	99
69) o-Xylene	11.95	106	449222	19.30	ug/l	99
70) Styrene	11.97	104	731902	19.80	ug/l	99
71) Bromoform	12.13	173	193028	19.37	ug/l #	98
73) Isopropylbenzene	12.25	105	1203293	19.56	ug/l	100
74) N-amyl acetate	12.07	43	312109	19.50	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	314096	21.01	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	236507m	17.98	ug/l	
77) Bromobenzene	12.53	156	319180	19.55	ug/l	98
78) n-propylbenzene	12.59	91	1375140	19.82	ug/l	100
79) 2-Chlorotoluene	12.68	91	853974	20.11	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	985314	20.15	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	70418	17.29	ug/l	96
82) 4-Chlorotoluene	12.77	91	841099	19.97	ug/l	99
83) tert-Butylbenzene	12.99	119	861159	19.68	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1006009	20.52	ug/l	100
85) sec-Butylbenzene	13.17	105	1163950	20.30	ug/l	100
86) p-Isopropyltoluene	13.29	119	976944	20.14	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	549745	19.43	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	533749	19.40	ug/l	99
89) n-Butylbenzene	13.62	91	754137	18.83	ug/l	99
90) Hexachloroethane	13.88	117	196847	20.47	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	554531	20.08	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	42733	19.35	ug/l	96

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ClientSampleId :
VN0713WBSD02

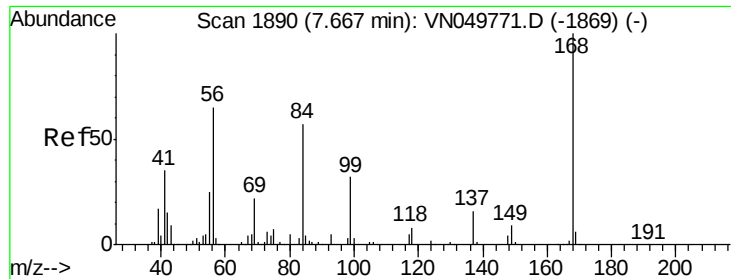
Manual Integrations
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7/16/2018 11:02:50 AM

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Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N071218W.M
Quant Title : SW846 8260
QLast Update : Thu Jul 12 15:51:38 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	247531	18.26	ug/l	100
94) Hexachlorobutadiene	15.01	225	172359	19.74	ug/l	98
95) Naphthalene	15.14	128	481573	17.55	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	256448	19.15	ug/l	99

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1891

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD02

Tot Ion:168 Resp: 1104269

Ion Ratio Lower Upper

168 100

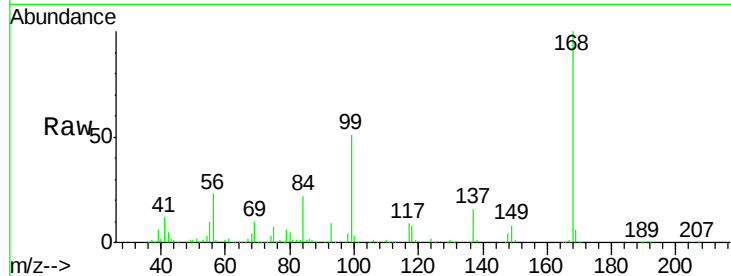
99 51.0 40.6 61.0

Manual Integrations

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7/16/2018 11:02:50 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO

7.67

400000

300000

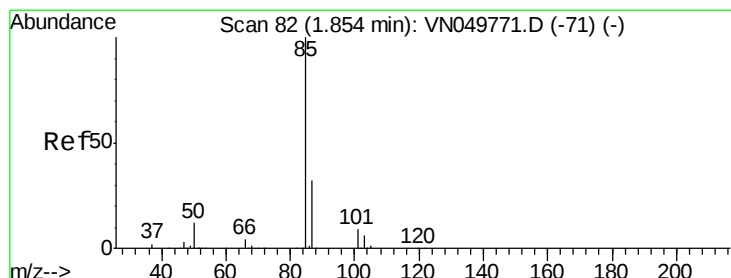
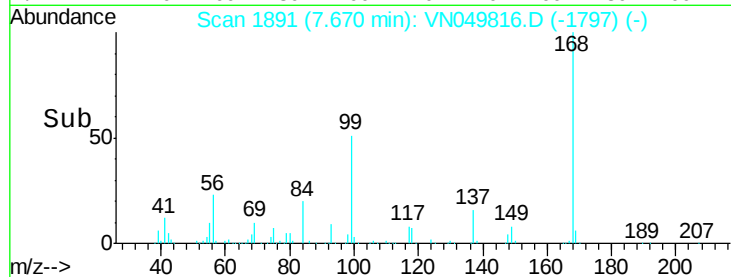
200000

100000

0

7.60 7.70 7.80

Time-->



#2

Dichlorodifluoromethane

Concen: 19.14 ug/l

RT: 1.85 min Scan# 82

Delta R.T. 0.00 min

Lab File: VN049816.D

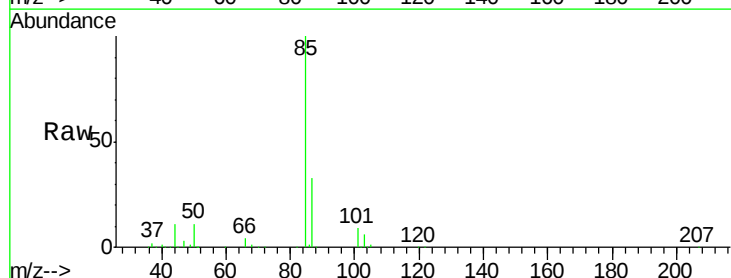
Acq: 14 Jul 2018 00:21

Tgt Ion: 85 Resp: 190836

Ion Ratio Lower Upper

85 100

87 32.6 15.4 46.1



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO

1.85

150000

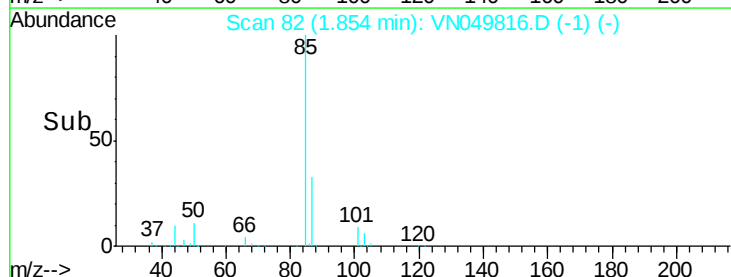
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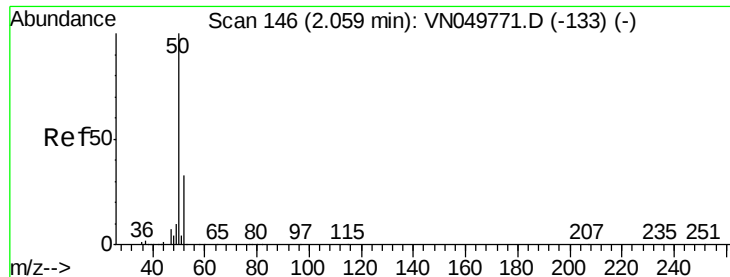
50000

0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 19.53 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD02

Tot Ion: 50 Resp: 255988

Ion Ratio Lower Upper

50 100

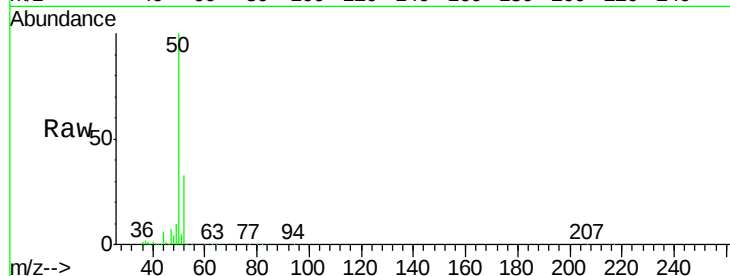
52 32.8 26.1 39.1

Manual Integrations

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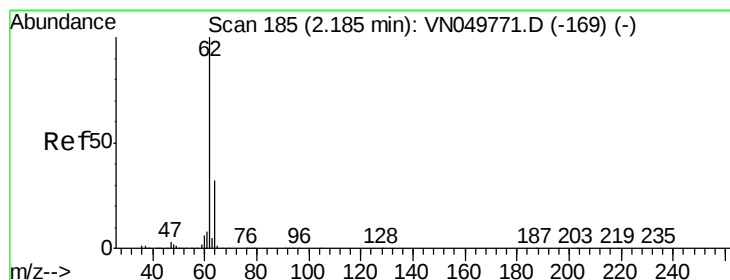
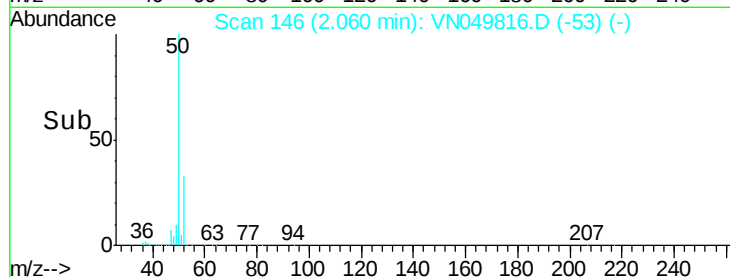
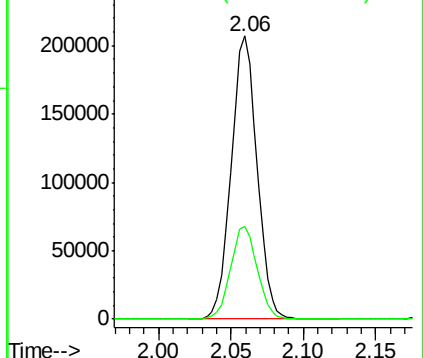
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Abundance Ion 49.90 (49.60 to 50.60): VN0

Ion 51.90 (51.60 to 52.60): VN0



#4

Vinyl Chloride

Concen: 20.22 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN049816.D

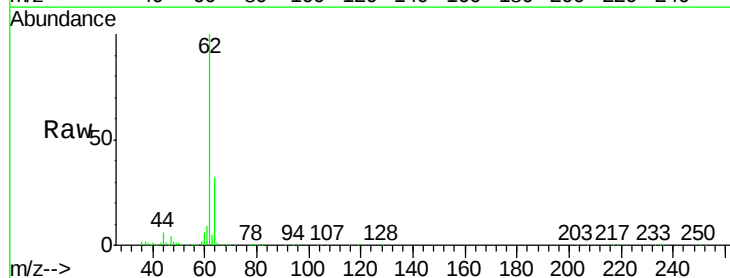
Acq: 14 Jul 2018 00:21

Tgt Ion: 62 Resp: 288620

Ion Ratio Lower Upper

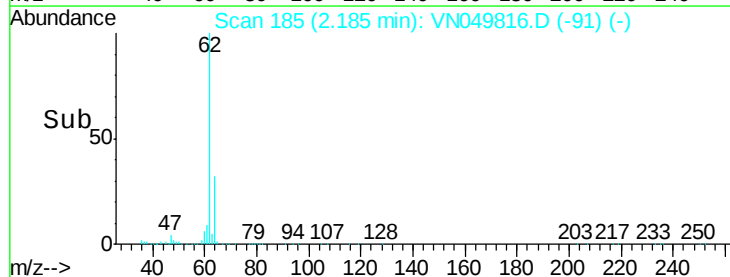
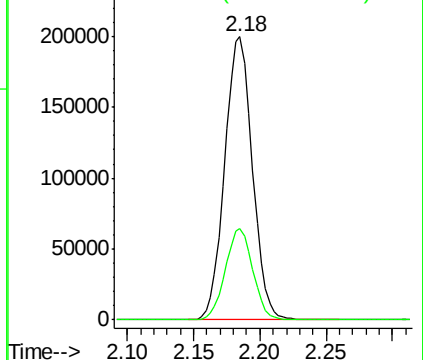
62 100

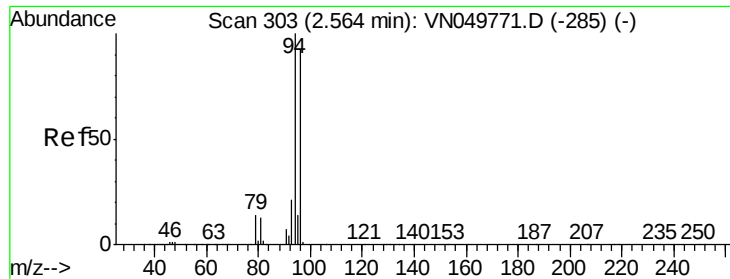
64 32.4 25.4 38.0



Abundance Ion 61.90 (61.60 to 62.60): VN0

Ion 63.90 (63.60 to 64.60): VN0





#5

Bromomethane

Concen: 19.83 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD02

Tot Ion: 94 Resp: 178531

Ion Ratio Lower Upper

94 100

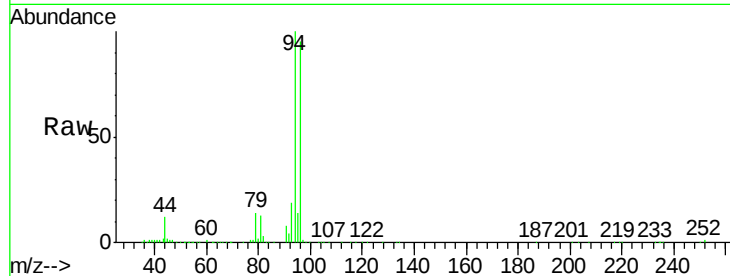
96 94.7 75.7 113.5

Manual Integrations

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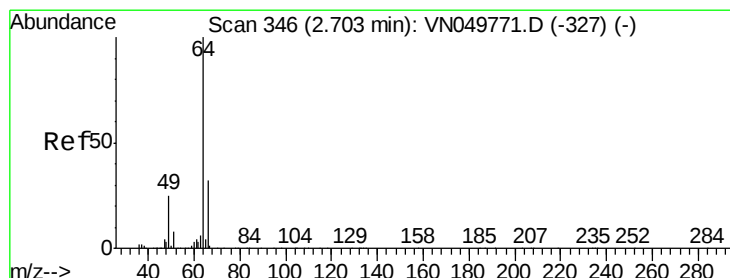
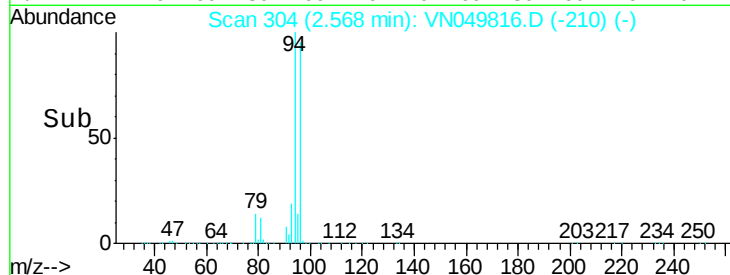
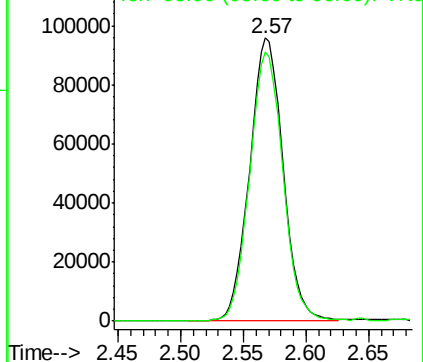
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 19.12 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN049816.D

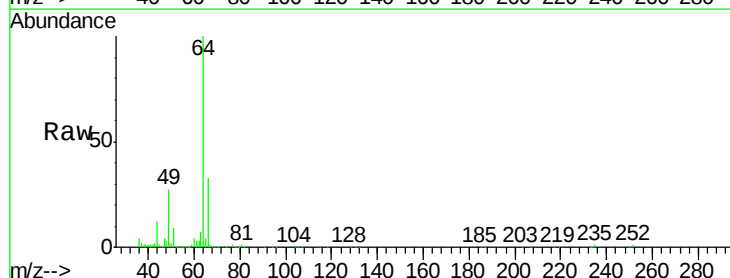
Acq: 14 Jul 2018 00:21

Tgt Ion: 64 Resp: 187821

Ion Ratio Lower Upper

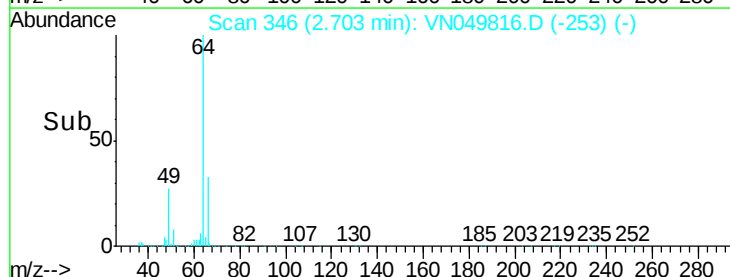
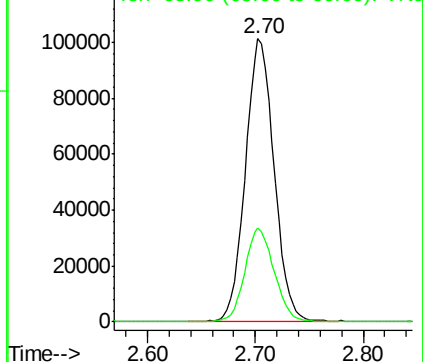
64 100

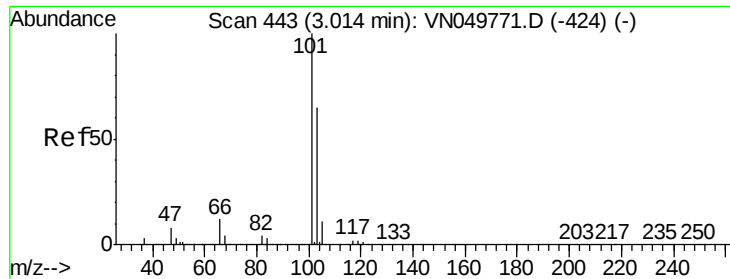
66 33.1 25.6 38.4



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

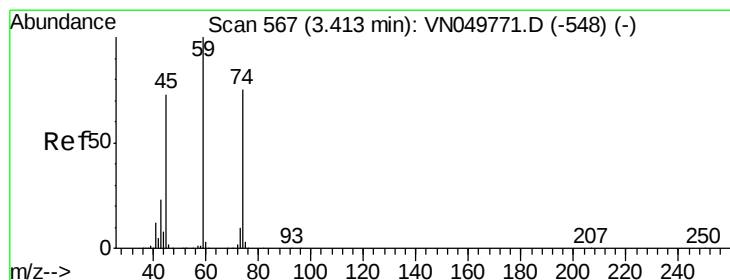
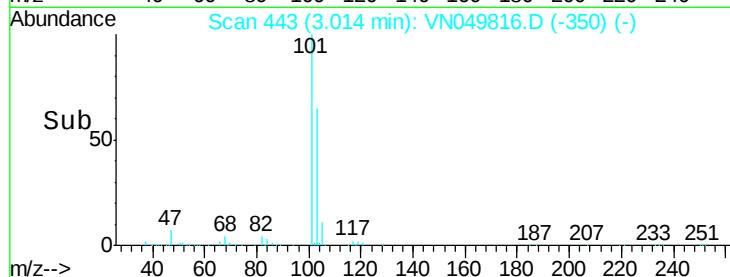
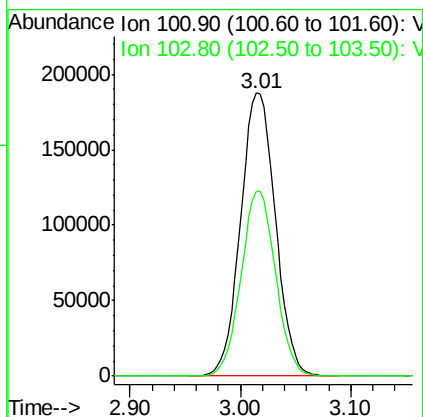
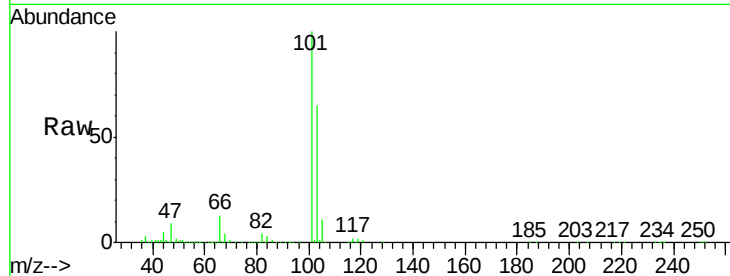
Trichlorofluoromethane
 Concen: 19.60 ug/l
 RT: 3.01 min Scan# 443
 Delta R.T. 0.00 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Instrument :
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 ClientSampleId :
 VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.2	52.8	79.2

Manual Integrations
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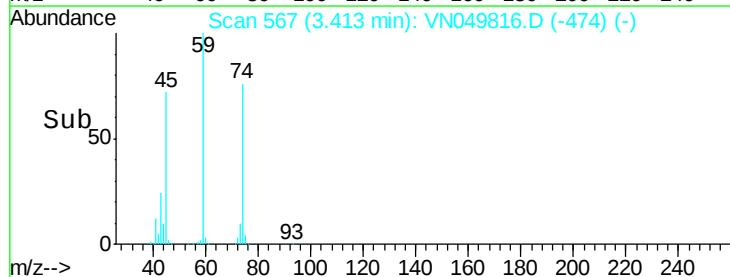
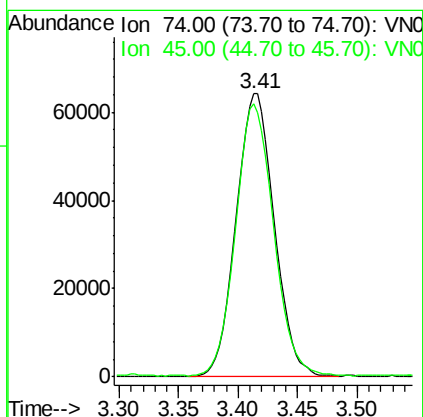
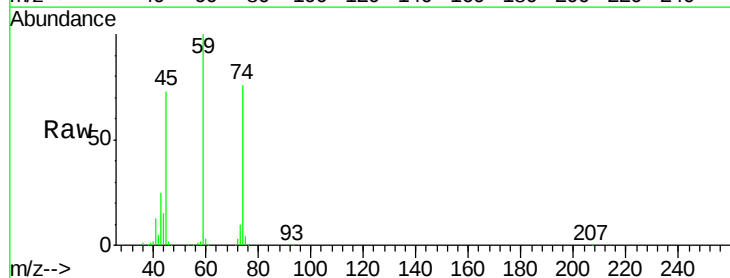
MMDadoda
 7/16/2018 11:02:50 AM

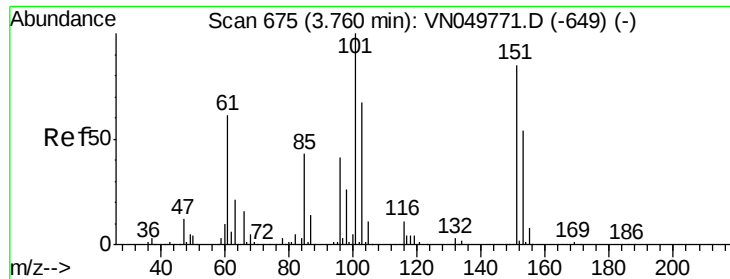


#8

Diethyl Ether
 Concen: 19.12 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. 0.00 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.4	48.4	145.2





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.69 ug/l

RT: 3.76 min Scan# 675

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

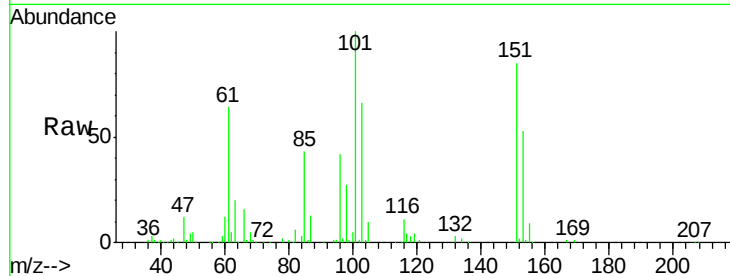
ClientSampleId :

VN0713WBSD02

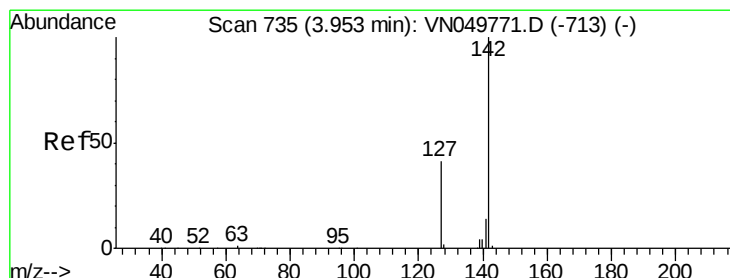
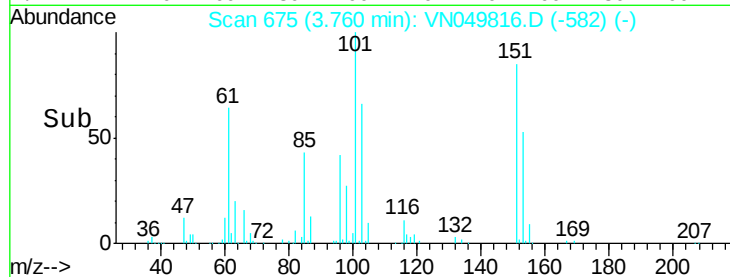
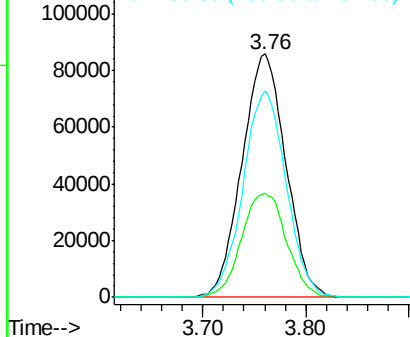
Tot Ion:	101	Resp:	254030
Ion Ratio	Lower	Upper	
101	100		
85	43.9	34.4	51.6
151	83.2	66.2	99.4

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Abundance Ion 100.90 (100.60 to 101.60): V
Ion 84.90 (84.60 to 85.60): V
Ion 150.80 (150.50 to 151.50): V



#10

Methyl Iodide

Concen: 19.29 ug/l

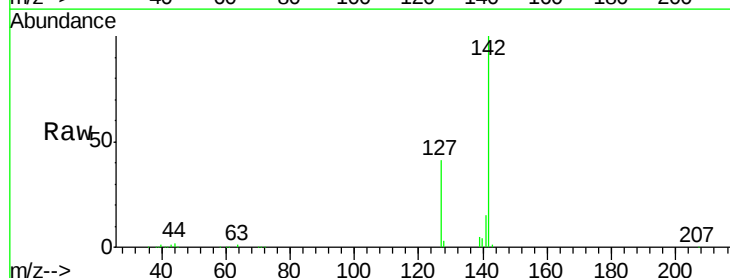
RT: 3.95 min Scan# 735

Delta R.T. 0.00 min

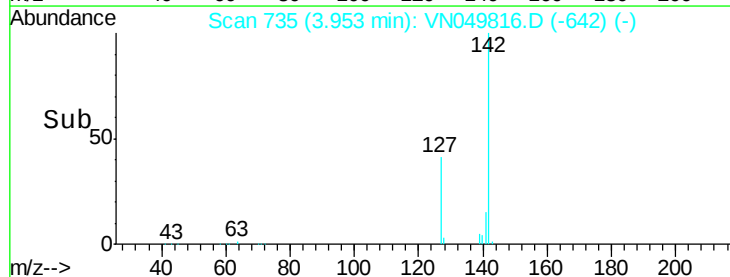
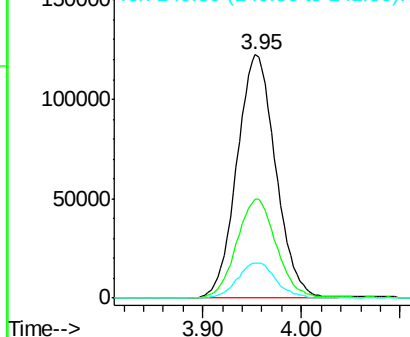
Lab File: VN049816.D

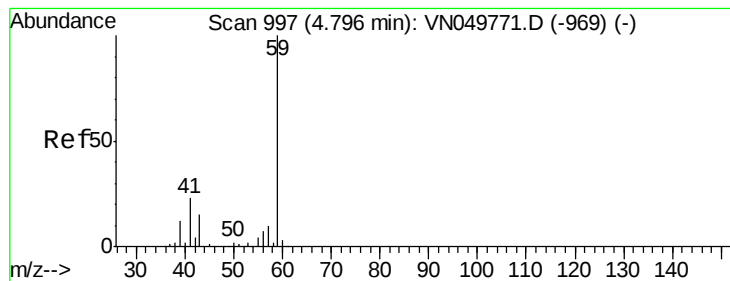
Acq: 14 Jul 2018 00:21

Tgt Ion:	142	Resp:	333138
Ion Ratio	Lower	Upper	
142	100		
127	41.8	32.5	48.7
141	14.4	11.1	16.7



Abundance Ion 141.80 (141.50 to 142.50): V
Ion 126.80 (126.50 to 127.50): V
Ion 140.80 (140.50 to 141.50): V





#11

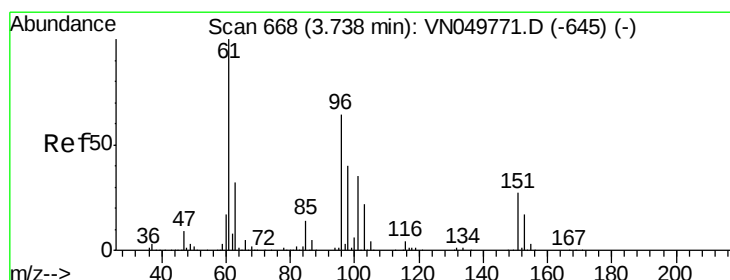
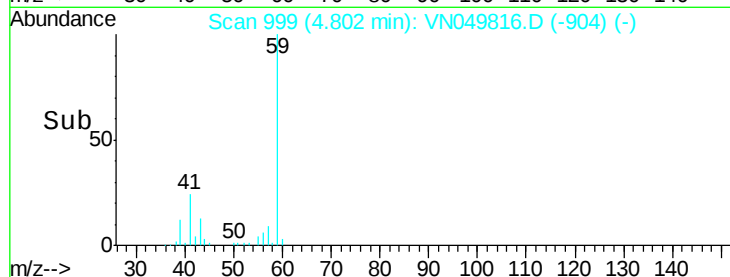
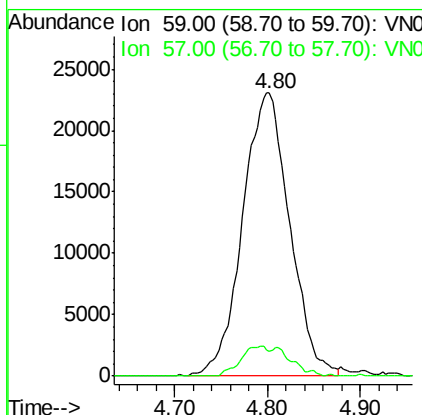
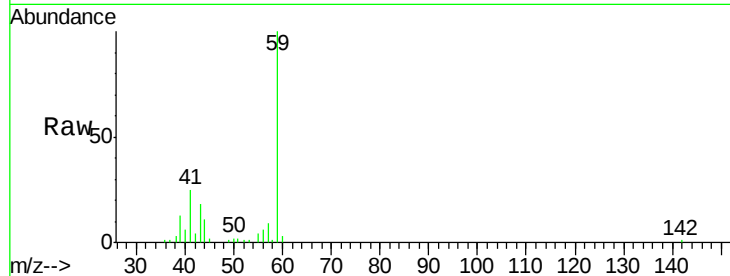
Tert butyl alcohol
 Concen: 94.71 ug/l
 RT: 4.80 min Scan# 999
 Delta R.T. 0.01 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	6.2	8.5	12.7#

Manual Integrations
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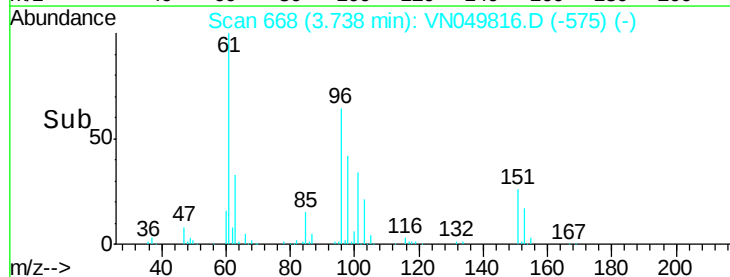
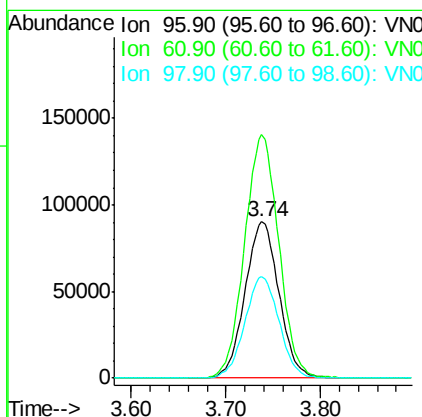
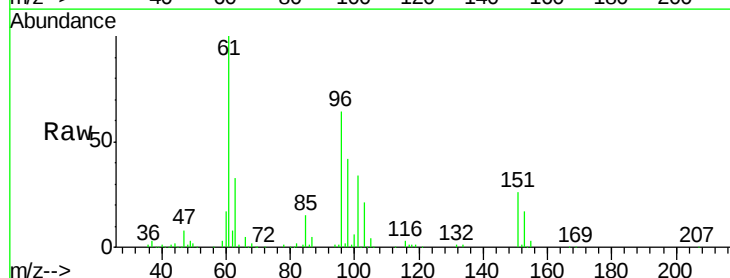
MMDadoda
 7/16/2018 11:02:50 AM

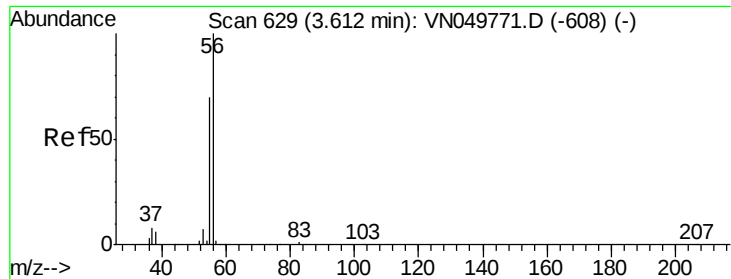


#12

1,1-Dichloroethene
 Concen: 18.86 ug/l
 RT: 3.74 min Scan# 668
 Delta R.T. 0.00 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.0	126.5	189.7
98	65.3	51.0	76.6





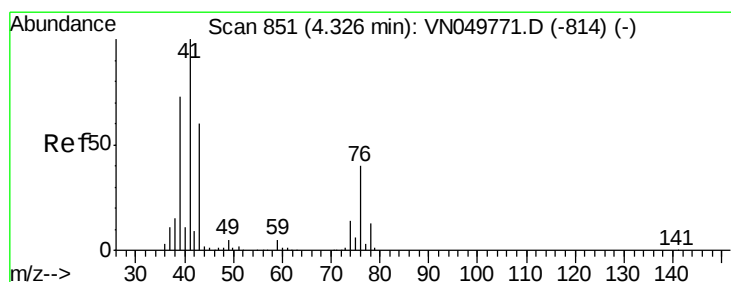
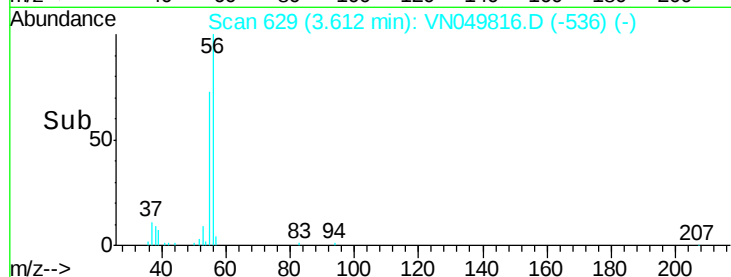
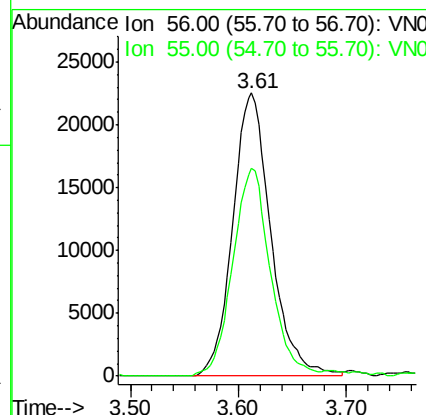
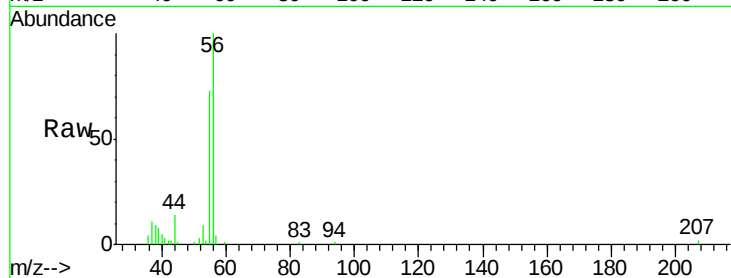
#13
 Acrolein
 Concen: 73.53 ug/l
 RT: 3.61 min Scan# 629
 Delta R.T. 0.00 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Instrument :
 MSVOA_N
 ClientSampled :
 VN0713WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
56	56	100		
55	55	71.9	55.8	83.8

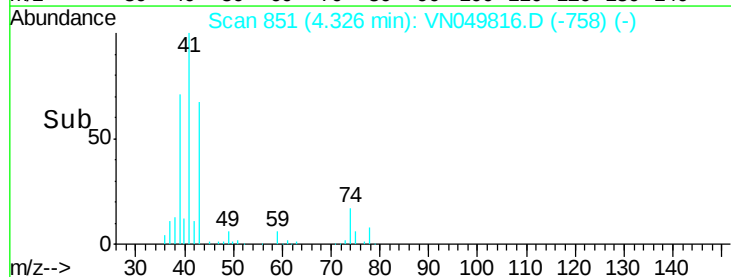
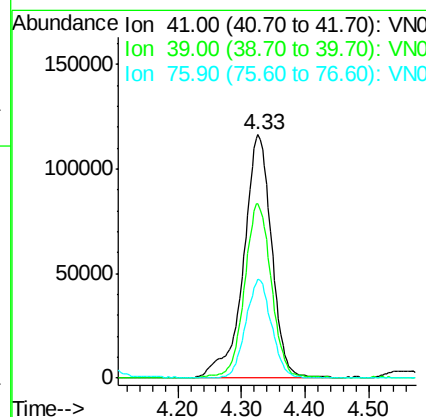
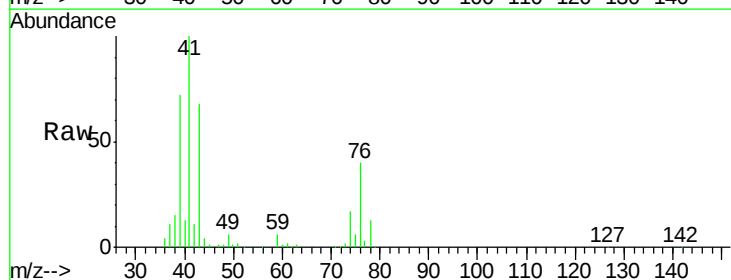
Manual Integrations
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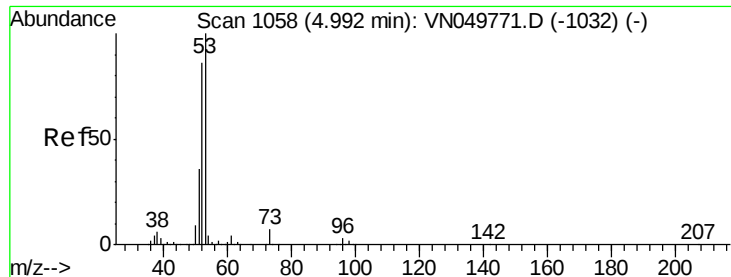
MMDadoda
 7/16/2018 11:02:50 AM



#14
 Allyl chloride
 Concen: 18.16 ug/l
 RT: 4.33 min Scan# 851
 Delta R.T. 0.00 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Tgt Ion	Ion	Ratio	Lower	Upper
41	41	100		
39	39	69.2	53.2	79.8
76	76	37.1	29.0	43.6





#15

Acrylonitrile

Concen: 98.54 ug/l

RT: 5.00 min Scan# 1060

Delta R.T. 0.01 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

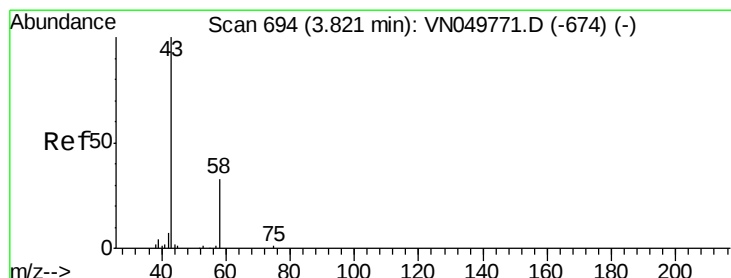
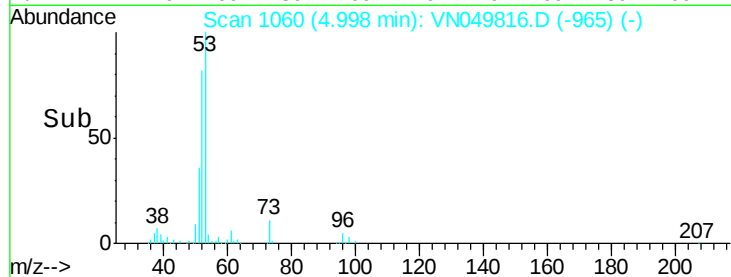
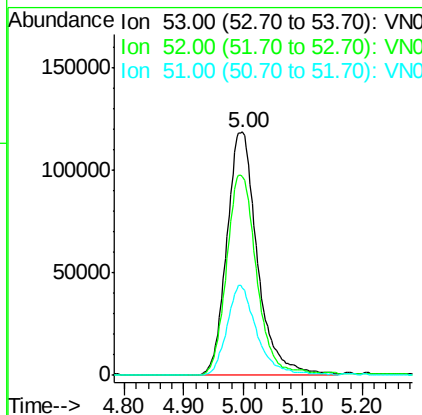
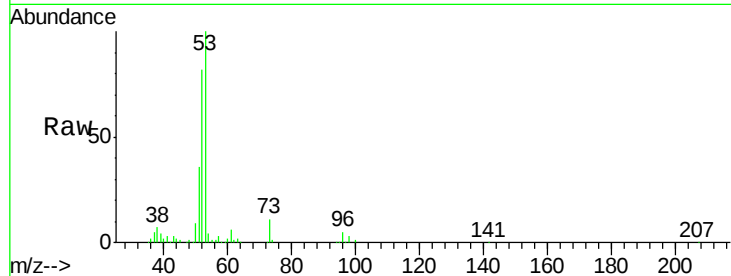
ClientSampleId :

VN0713WBSD02

Tot Ion:	53	Resp:	424281
Ion	Ratio	Lower	Upper
53	100		
52	79.2	64.8	97.2
51	36.1	28.9	43.3

Manual Integrations
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MMDadoda
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#16

Acetone

Concen: 92.75 ug/l

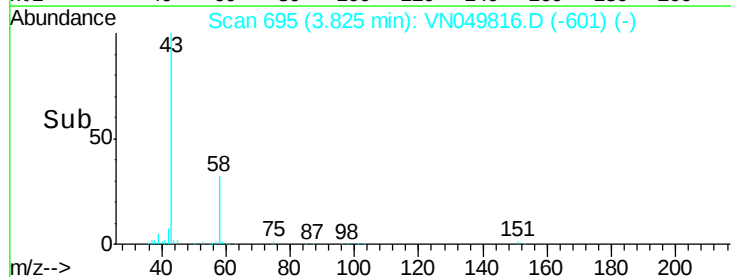
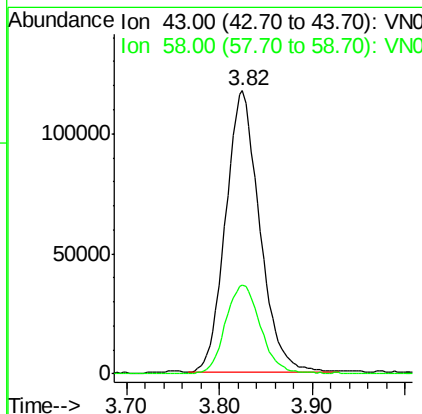
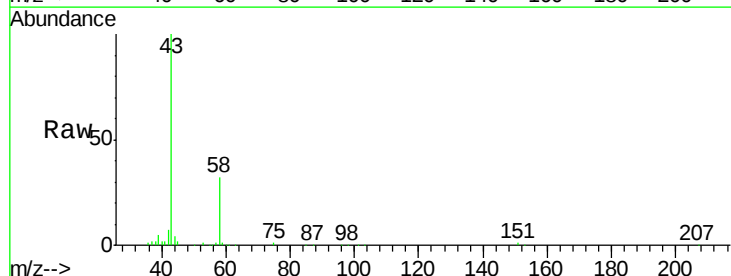
RT: 3.82 min Scan# 695

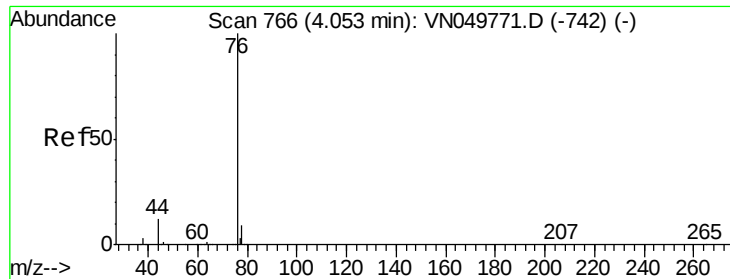
Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Tgt Ion:	43	Resp:	297370
Ion	Ratio	Lower	Upper
43	100		
58	31.8	25.9	38.9





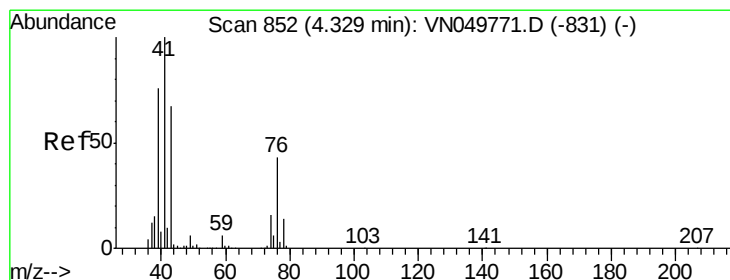
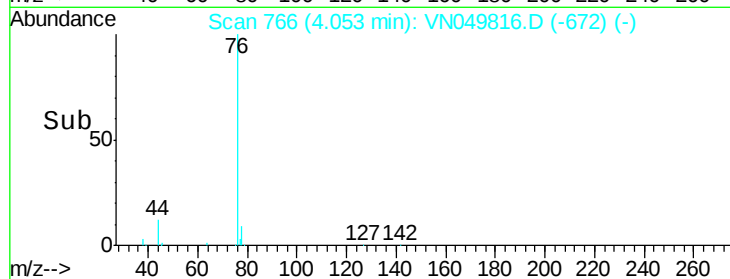
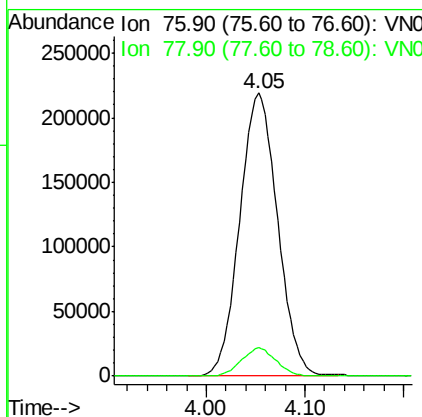
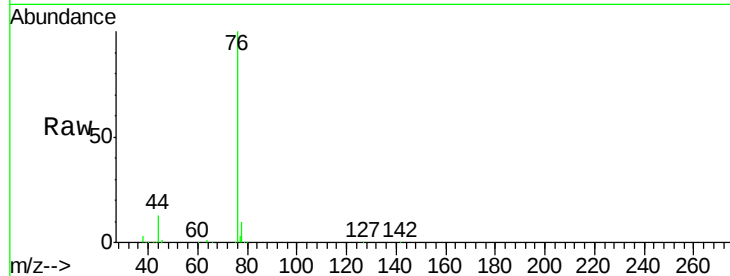
#17
Carbon Disulfide
Concen: 18.77 ug/l
RT: 4.05 min Scan# 766
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
76	100		
78	10.0	7.1	10.7

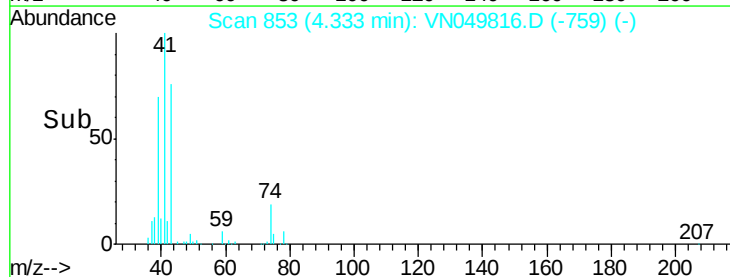
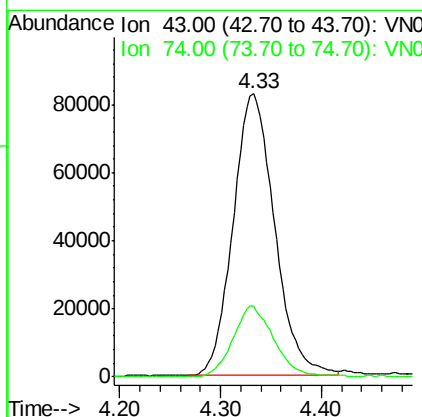
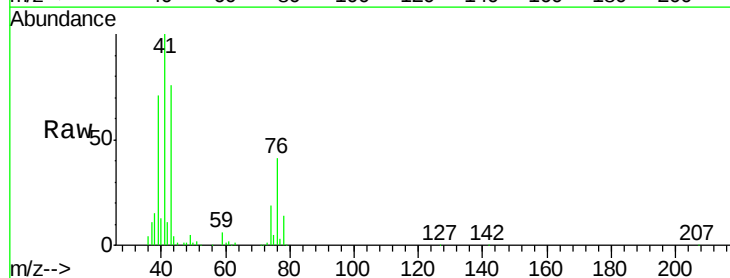
Manual Integrations
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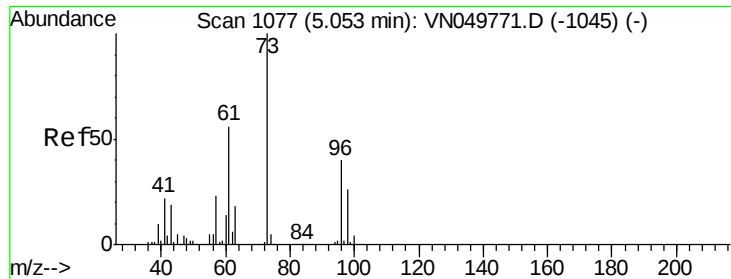
MMDadoda
7/16/2018 11:02:50 AM



#18
Methyl Acetate
Concen: 21.67 ug/l
RT: 4.33 min Scan# 853
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.5	19.8	29.8





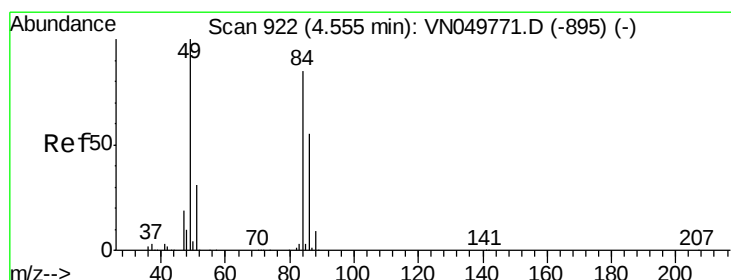
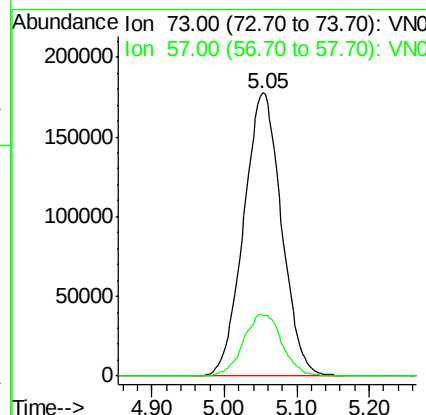
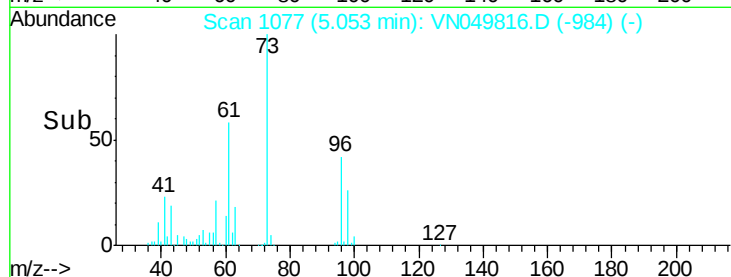
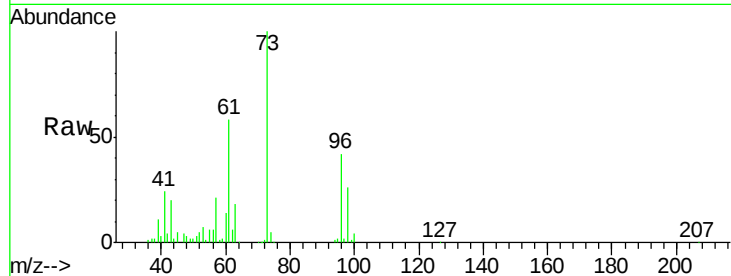
#19
Methvl tert-butvl Ether
Concen: 19.45 ug/l
RT: 5.05 min Scan# 1077
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion: 73 Resp: 644392
Ion Ratio Lower Upper
73 100
57 21.4 18.1 27.1

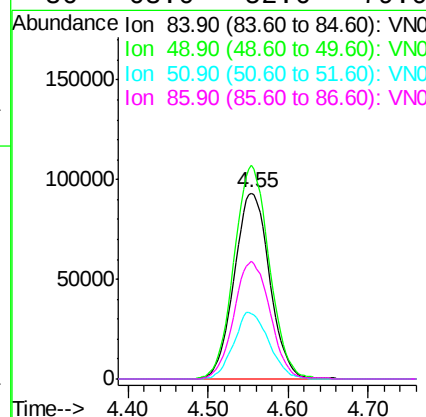
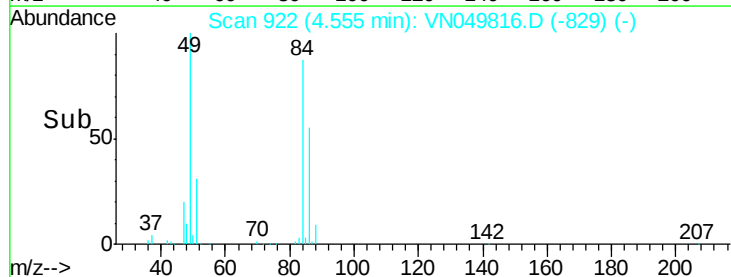
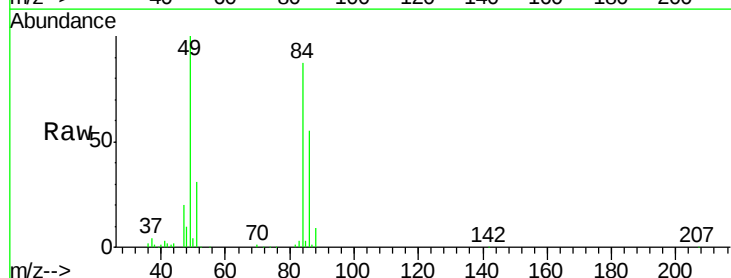
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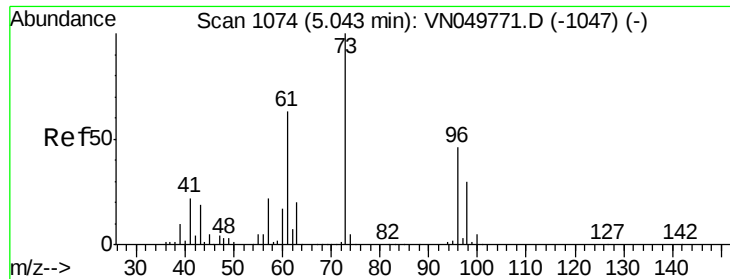
MMDadoda
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#20
Methylene Chloride
Concen: 20.76 ug/l
RT: 4.55 min Scan# 922
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion: 84 Resp: 280711
Ion Ratio Lower Upper
84 100
49 114.8 95.4 143.2
51 35.1 28.4 42.6
86 63.0 52.6 79.0





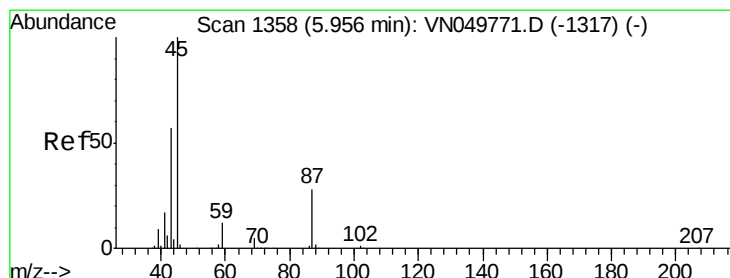
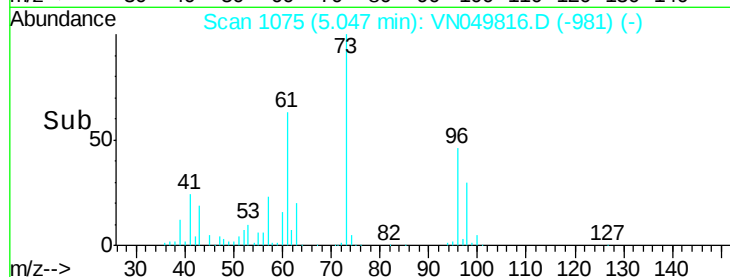
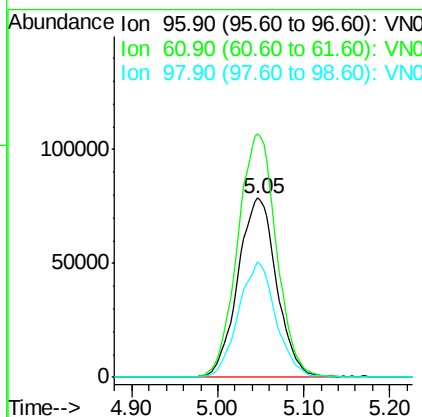
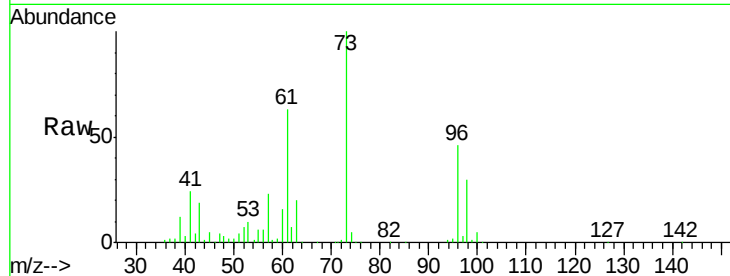
#21
trans-1,2-Dichloroethene
Concen: 18.89 ug/l
RT: 5.05 min Scan# 1075
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
96	100		
61	135.7	109.0	163.6
98	64.6	51.1	76.7

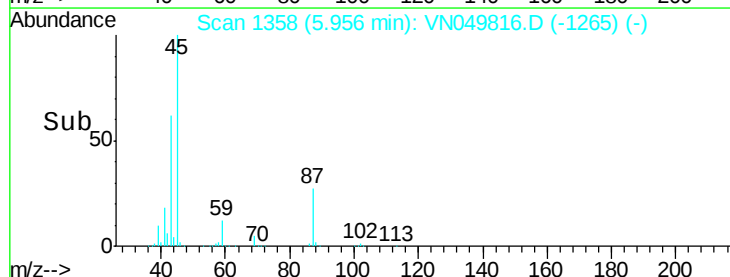
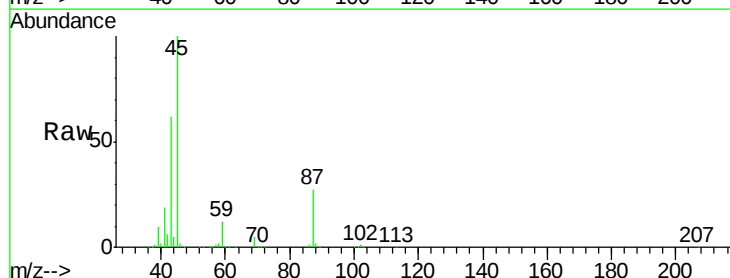
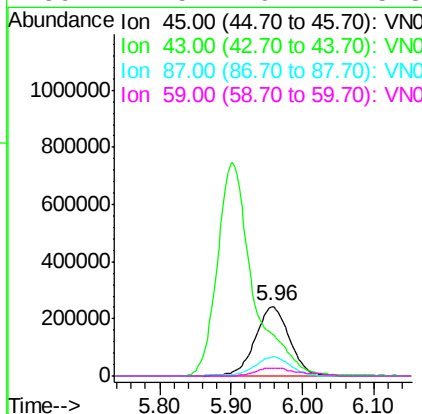
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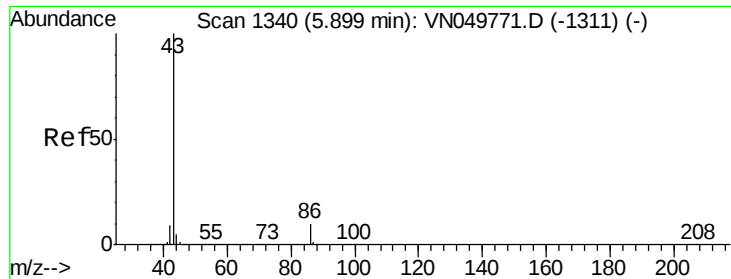
MMDadoda
7/16/2018 11:02:50 AM



#22
Diisopropyl ether
Concen: 20.26 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.0	48.1	72.1
87	26.5	22.6	34.0
59	11.5	9.2	13.8





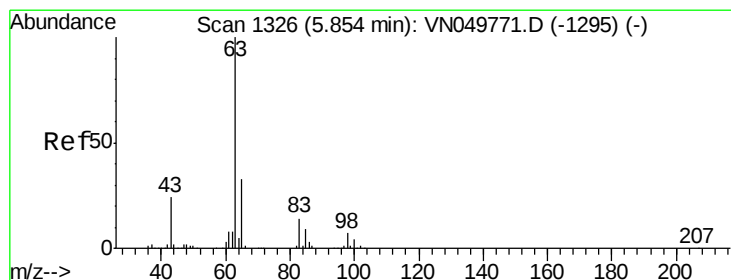
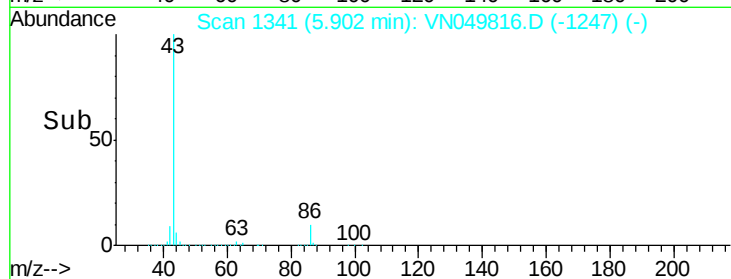
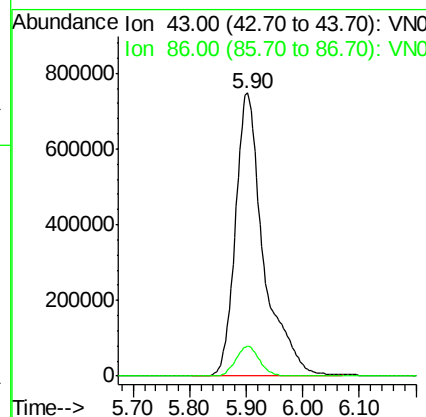
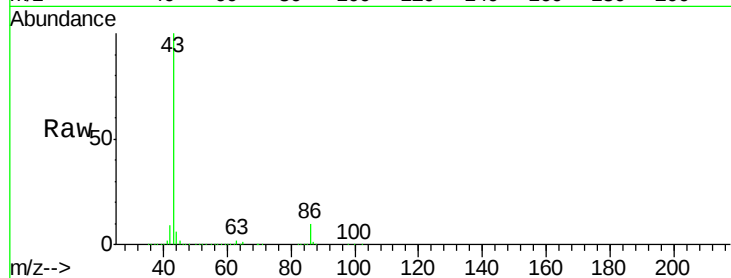
#23
 Vinyl Acetate
 Concen: 96.44 ug/l
 RT: 5.90 min Scan# 1341
 Delta R.T. 0.00 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD02

Tot Ion: 43 Resp: 2587096
 Ion Ratio Lower Upper
 43 100
 86 10.5 8.4 12.6

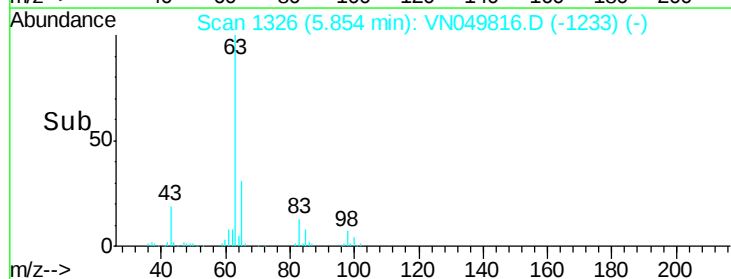
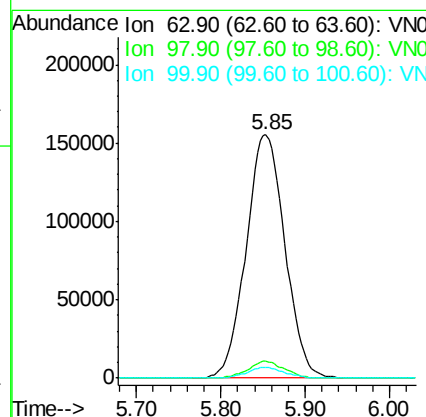
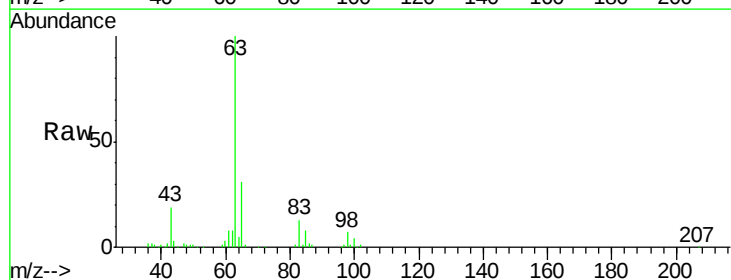
Manual Integrations
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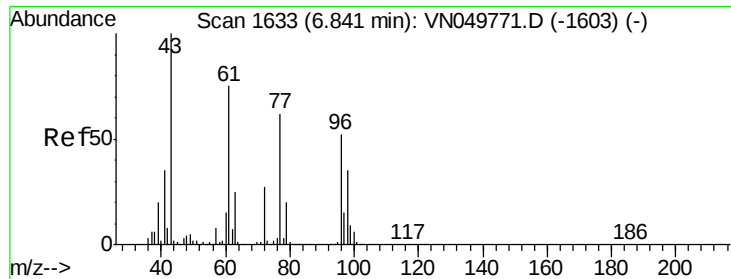
MMDadoda
 7/16/2018 11:02:50 AM



#24
 1,1-Dichloroethane
 Concen: 19.74 ug/l
 RT: 5.85 min Scan# 1326
 Delta R.T. 0.00 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Tgt Ion: 63 Resp: 496306
 Ion Ratio Lower Upper
 63 100
 98 6.9 3.4 10.2
 100 4.4 2.2 6.6





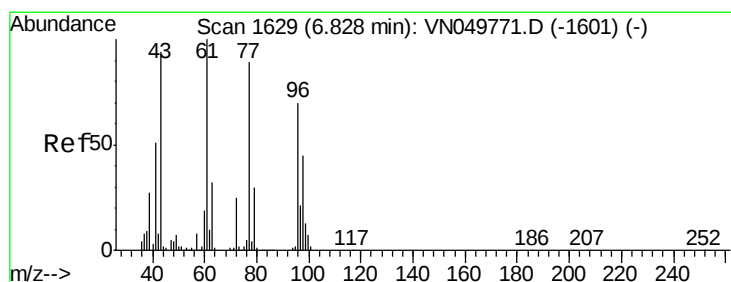
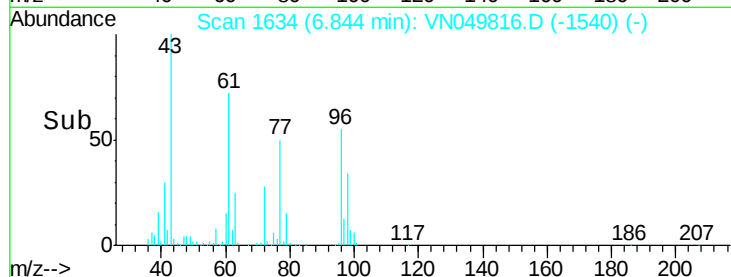
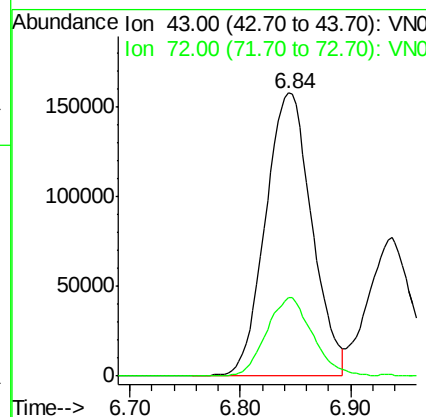
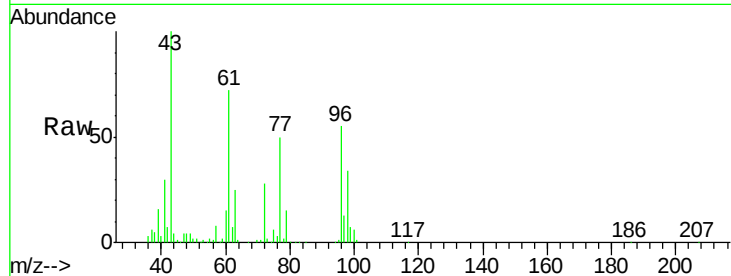
#25
2-Butanone
Concen: 91.69 ug/l
RT: 6.84 min Scan# 1634
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion: 43 Resp: 458975
Ion Ratio Lower Upper
43 100
72 27.6 22.1 33.1

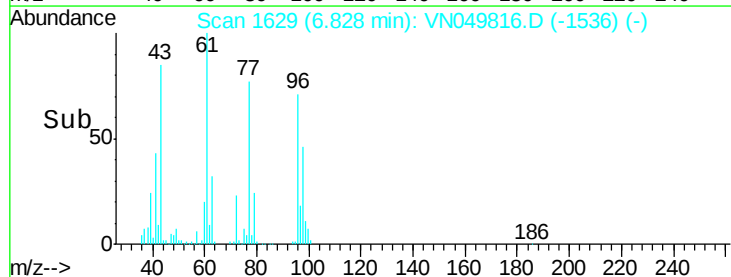
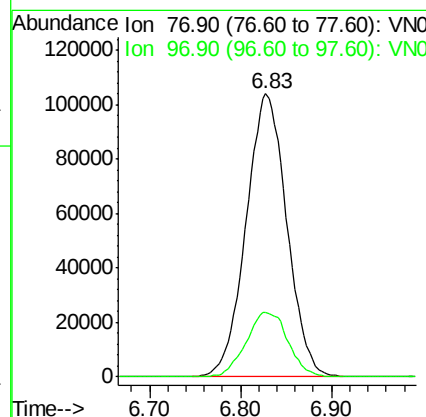
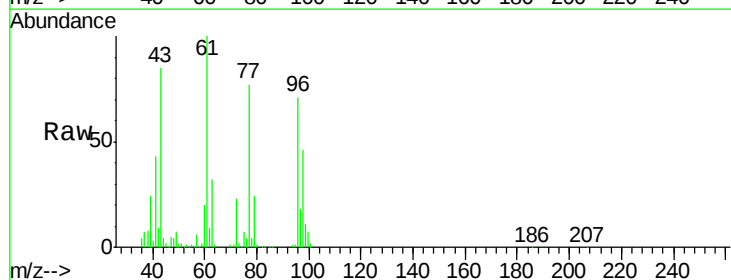
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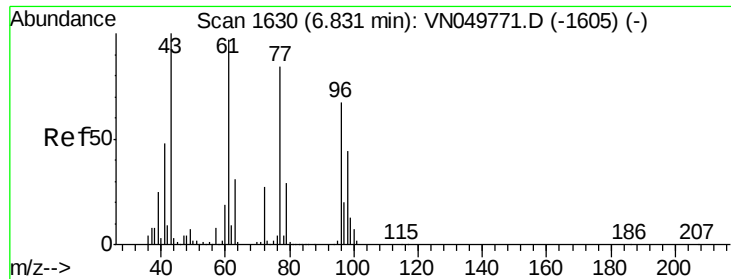
MMDadoda
7/16/2018 11:02:50 AM



#26
2,2-Dichloropropane
Concen: 15.39 ug/l
RT: 6.83 min Scan# 1629
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion: 77 Resp: 321319
Ion Ratio Lower Upper
77 100
97 23.6 11.9 35.5





#27

cis-1,2-Dichloroethene

Concen: 19.24 ug/l

RT: 6.83 min Scan# 1630

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

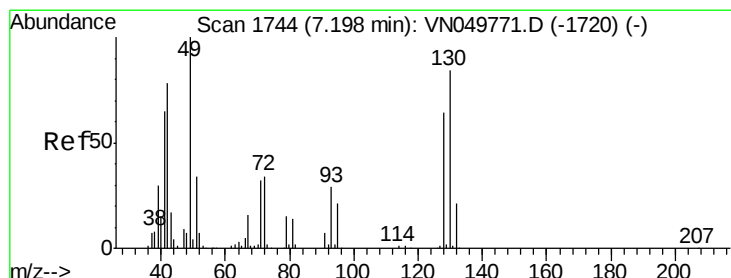
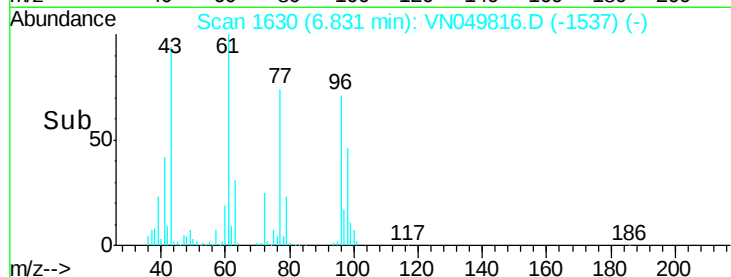
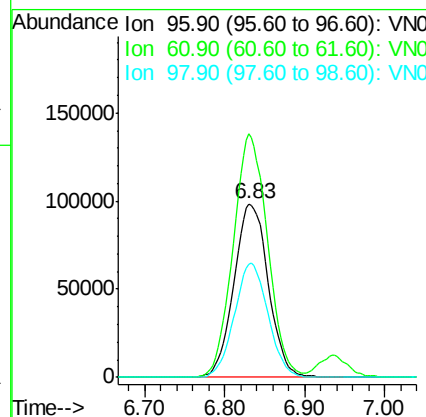
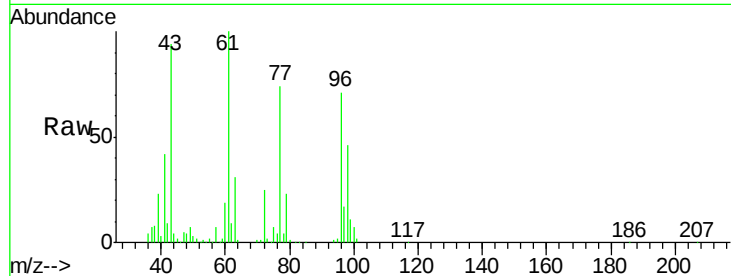
ClientSampleId :

VN0713WBSD02

Tot Ion:	96	Resp:	287225
Ion Ratio	Lower	Upper	
96	100		
61	140.1	0.0	289.0
98	64.4	0.0	130.2

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7/16/2018 11:02:50 AM



#28

Bromochloromethane

Concen: 19.96 ug/l

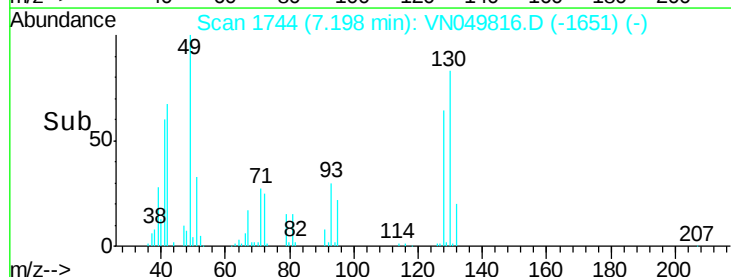
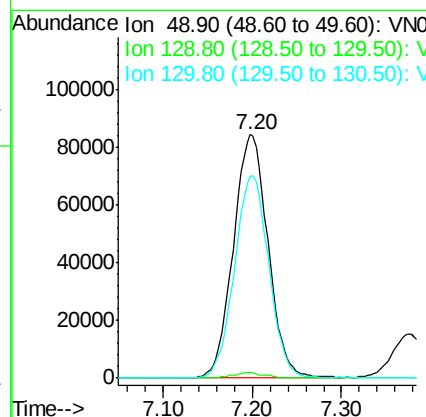
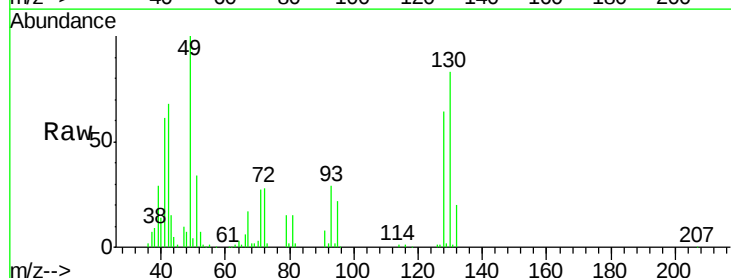
RT: 7.20 min Scan# 1744

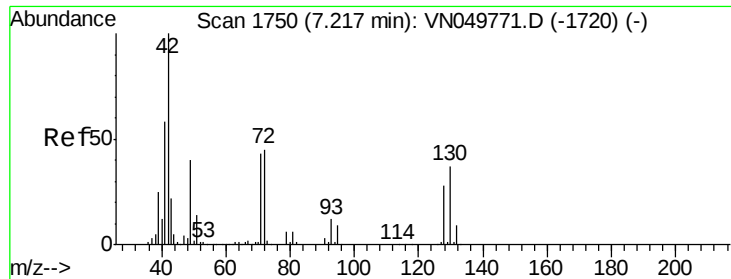
Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Tgt Ion:	49	Resp:	228290
Ion Ratio	Lower	Upper	
49	100		
129	2.1	0.0	4.2
130	82.7	65.5	98.3





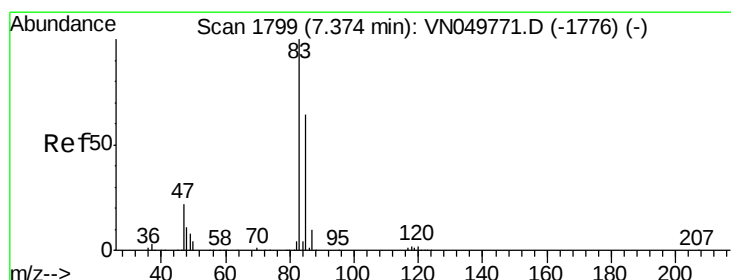
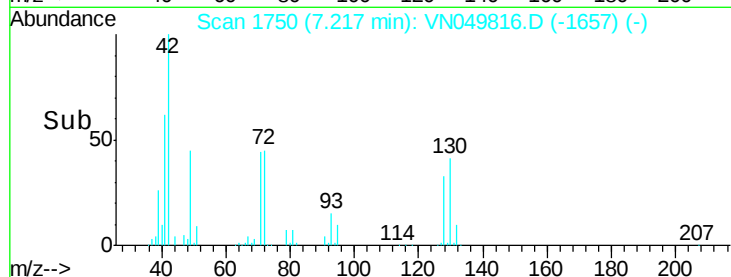
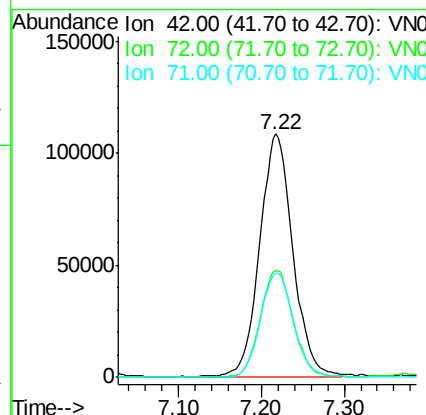
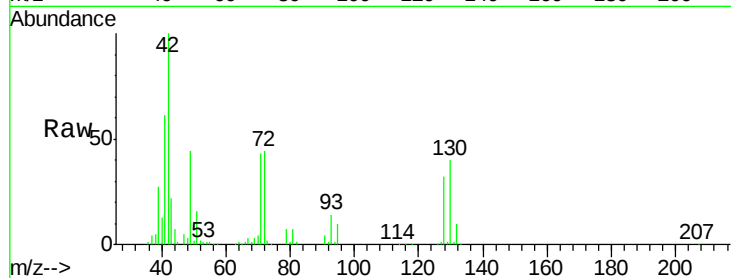
#29
Tetrahydrofuran
Concen: 95.86 ug/l
RT: 7.22 min Scan# 1750
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	43.9	35.6	53.4
71	43.2	34.0	51.0

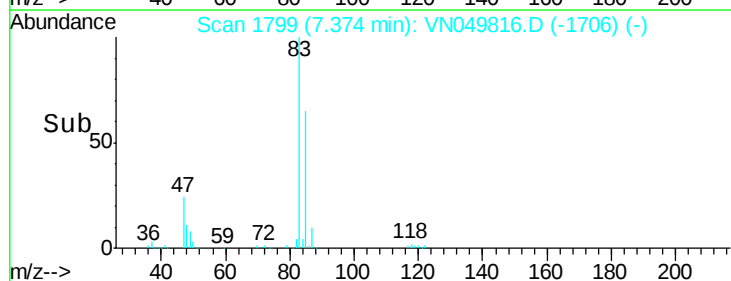
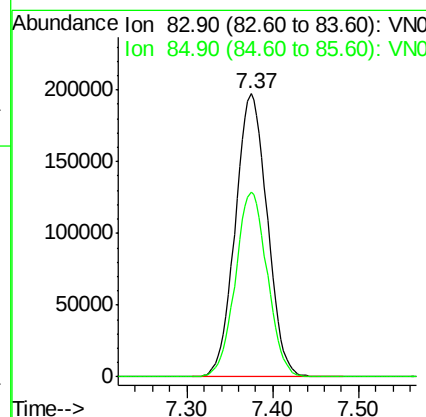
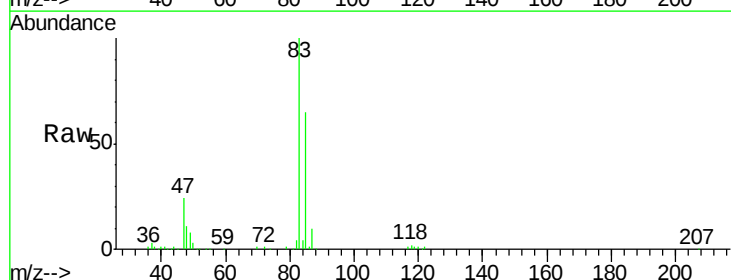
Manual Integrations
APPROVED

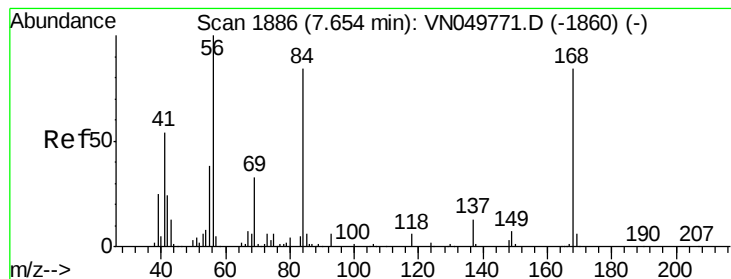
MMDadoda
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#30
Chloroform
Concen: 19.69 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	51.4	77.2





#31

Cyclohexane

Concen: 18.67 ug/l

RT: 7.66 min Scan# 1887

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

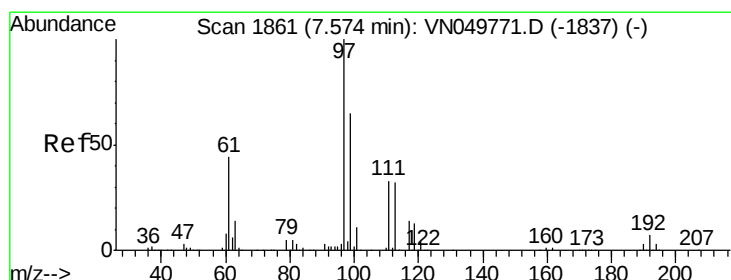
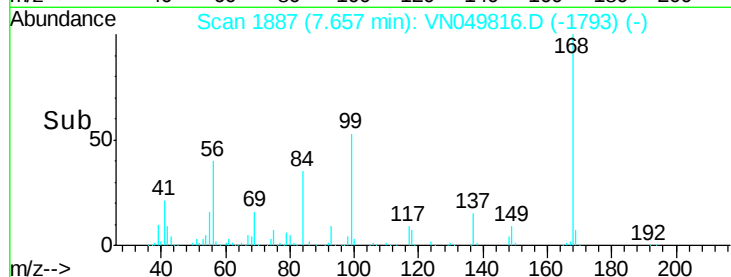
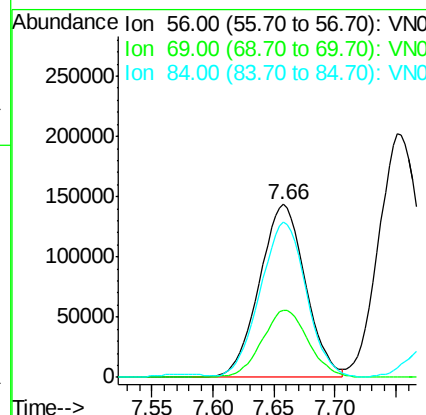
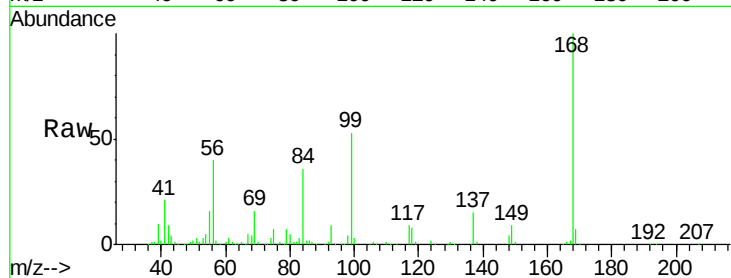
ClientSampleId :

VN0713WBSD02

Tot Ion:	56	Resp:	376981
Ion Ratio	Lower	Upper	
56	100		
69	39.0	26.6	40.0
84	88.2	69.0	103.6

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 19.74 ug/l

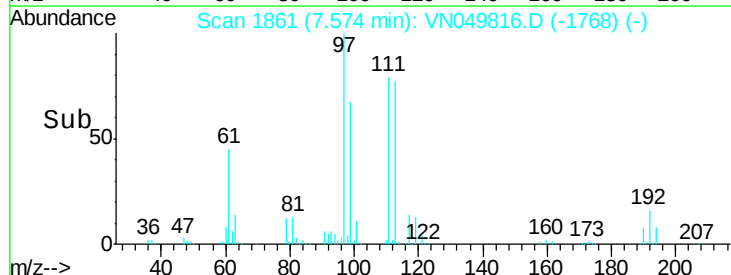
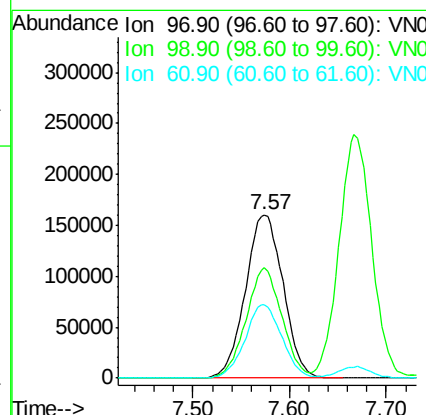
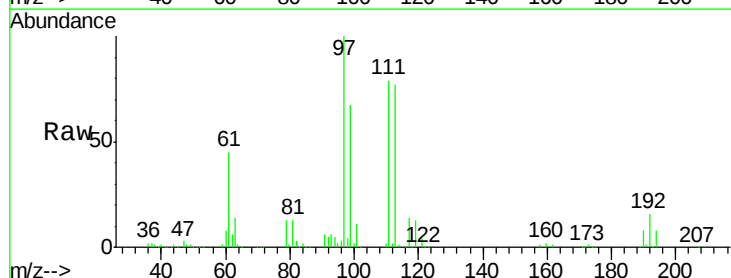
RT: 7.57 min Scan# 1861

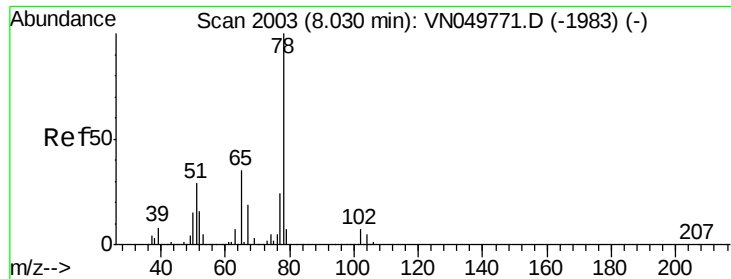
Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Tgt Ion:	97	Resp:	434365
Ion Ratio	Lower	Upper	
97	100		
99	64.1	51.0	76.4
61	43.9	35.5	53.3





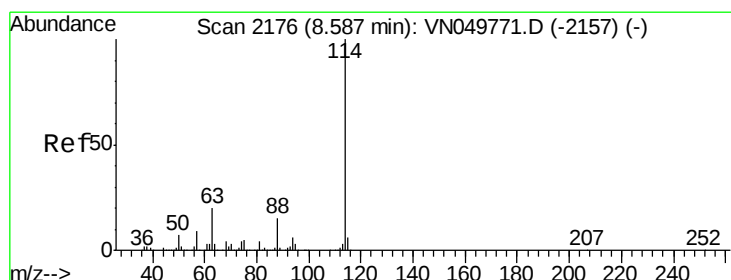
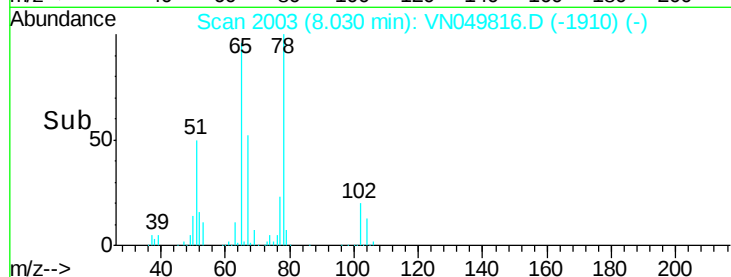
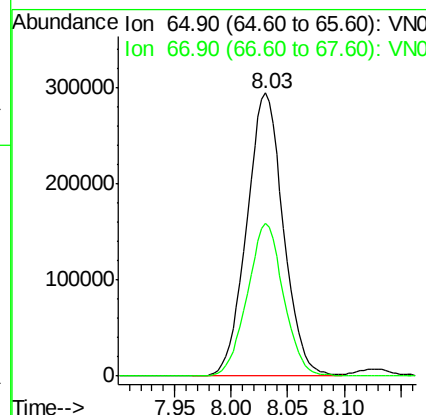
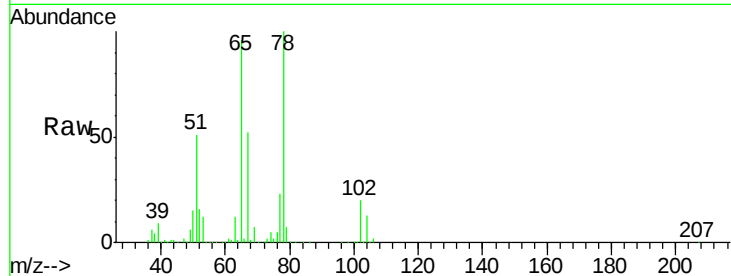
#33
 1,2-Dichloroethane-d4
 Concen: 51.74 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. 0.00 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	664613		
67	53.4	0.0	107.2	

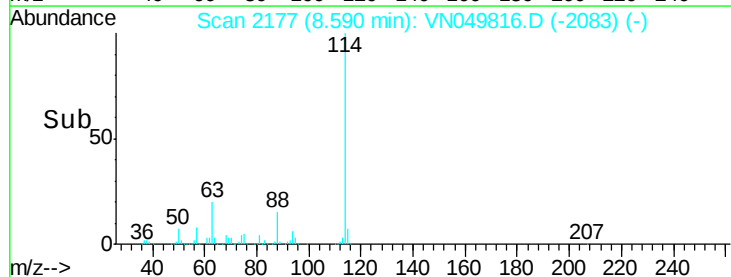
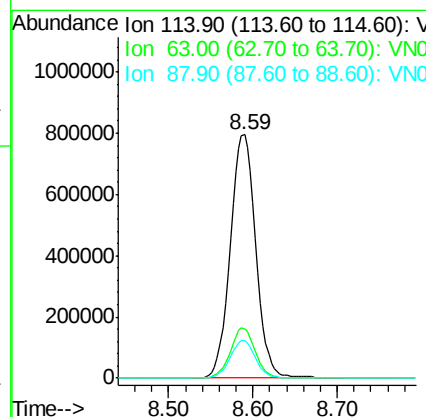
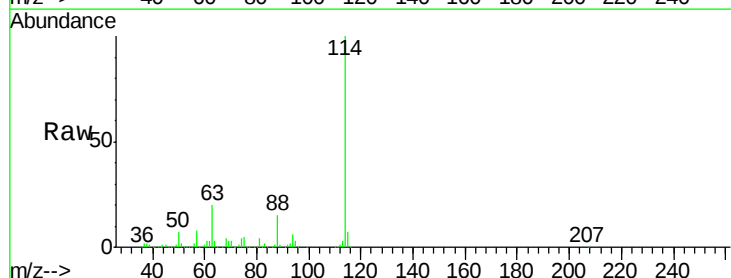
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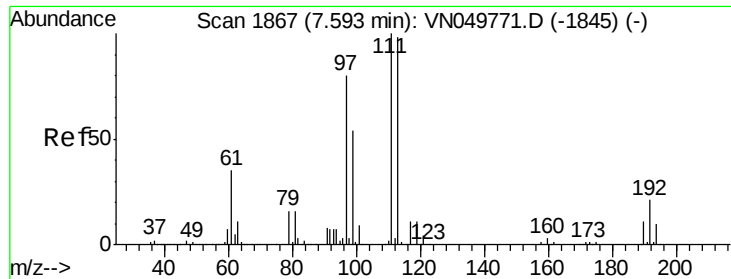
MMDadoda
 7/16/2018 11:02:50 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2177
 Delta R.T. 0.00 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	1670129		
63	20.3	0.0	39.8	
88	15.2	0.0	30.6	





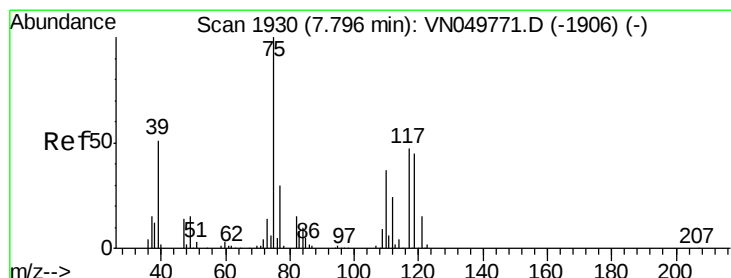
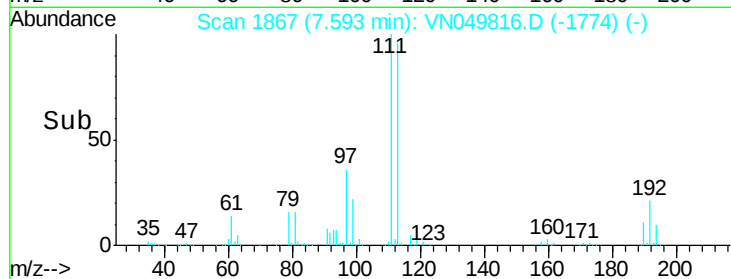
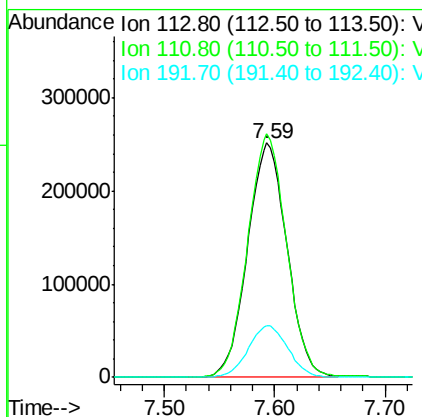
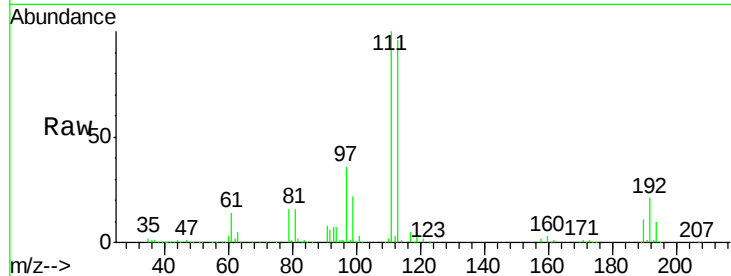
#35
Dibromofluoromethane
Concen: 49.47 ug/l
RT: 7.59 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100	622833		
111	102.6	81.8	122.8	
192	22.2	17.8	26.6	

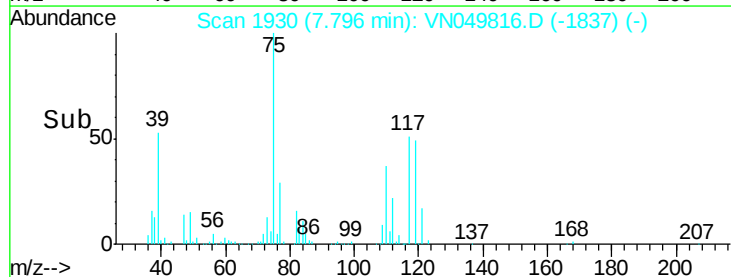
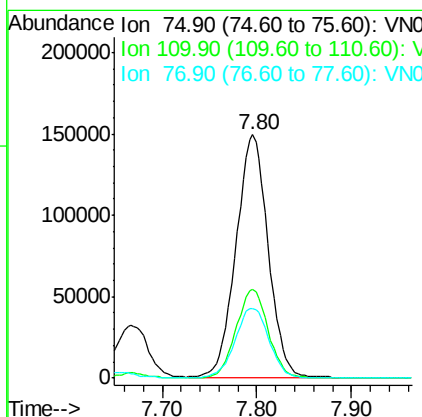
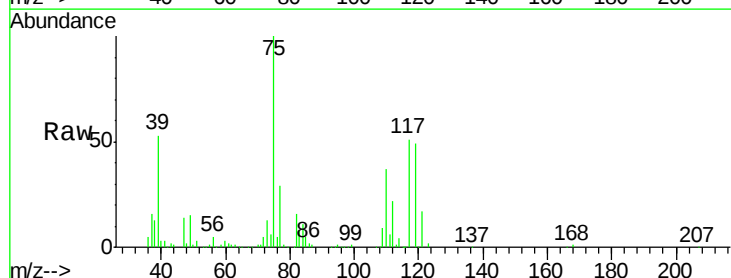
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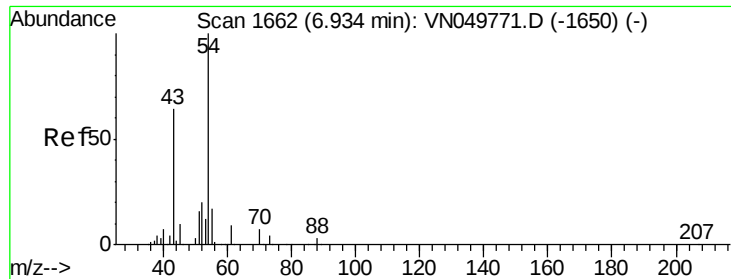
MMDadoda
7/16/2018 11:02:50 AM



#36
1,1-Dichloropropene
Concen: 18.36 ug/l
RT: 7.80 min Scan# 1930
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	353368		
110	36.4	18.1	54.4	
77	29.7	24.9	37.3	





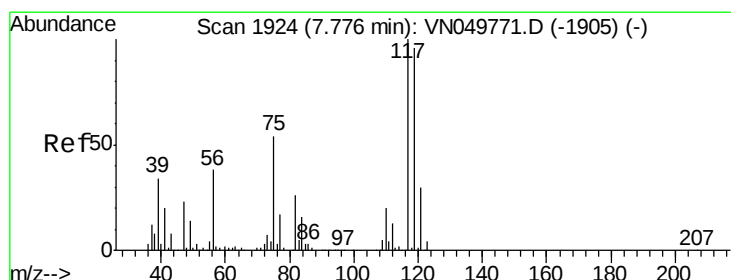
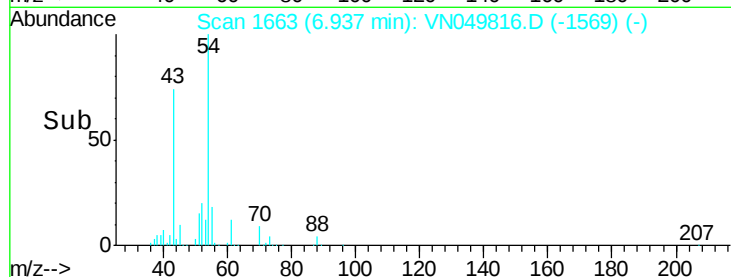
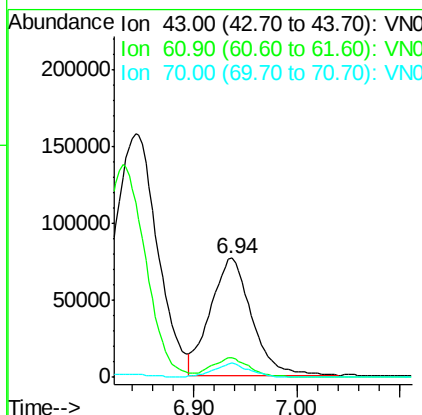
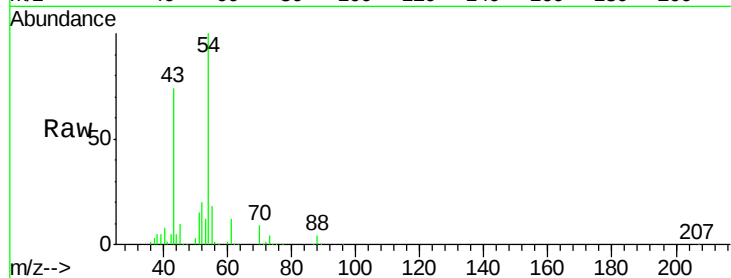
#37
Ethyl Acetate
Concen: 18.69 ug/l
RT: 6.94 min Scan# 1663
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.8	11.7	17.5
70	10.2	8.4	12.6

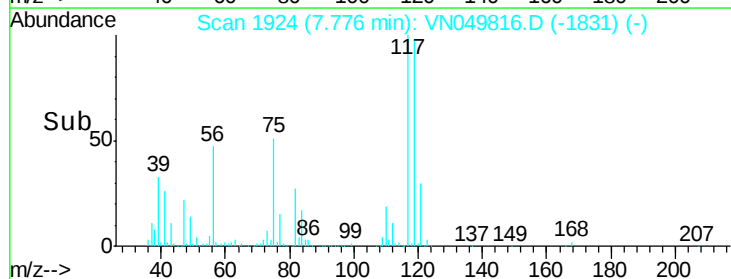
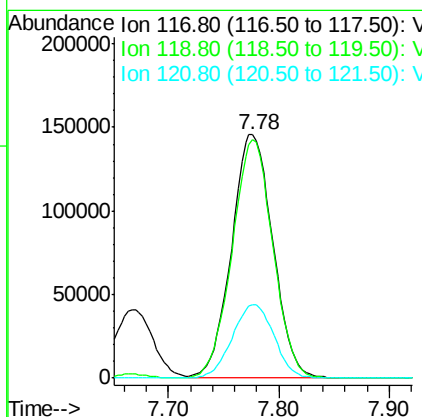
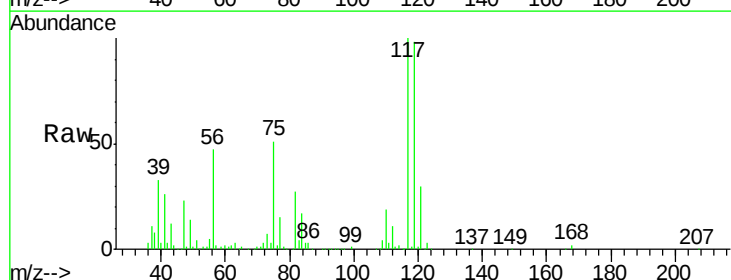
Manual Integrations
APPROVED

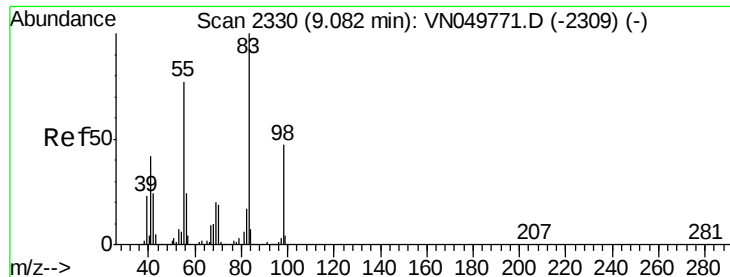
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7/16/2018 11:02:50 AM



#38
Carbon Tetrachloride
Concen: 18.72 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
117	100		
119	98.0	77.2	115.8
121	30.5	25.0	37.6





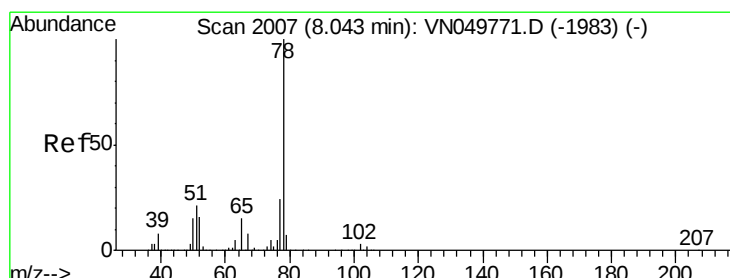
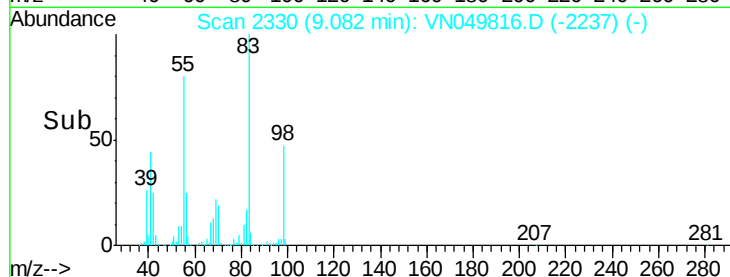
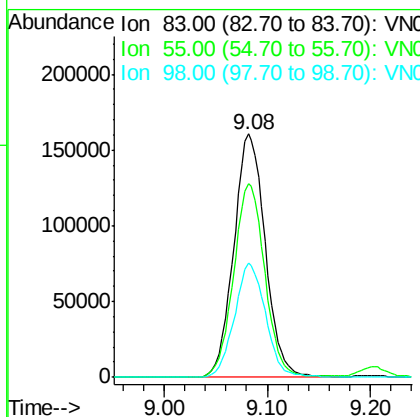
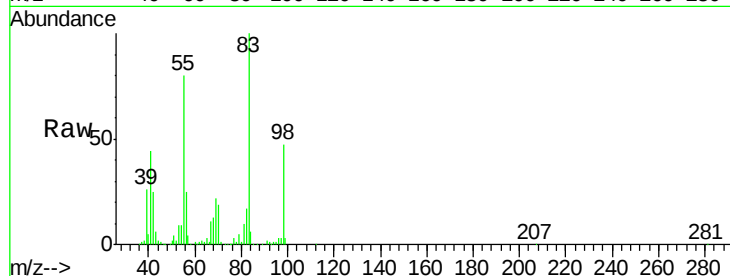
#39
Methvlcvclohexane
Concen: 16.85 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
83	100		
55	79.7	59.7	89.5
98	46.7	36.5	54.7

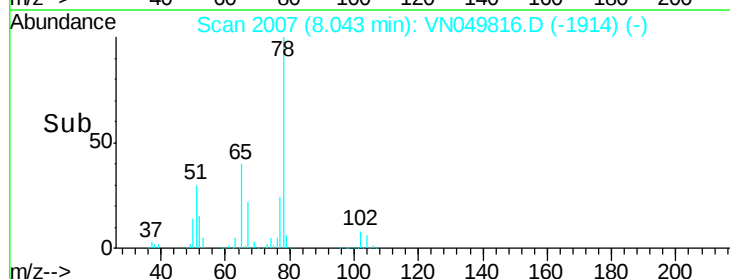
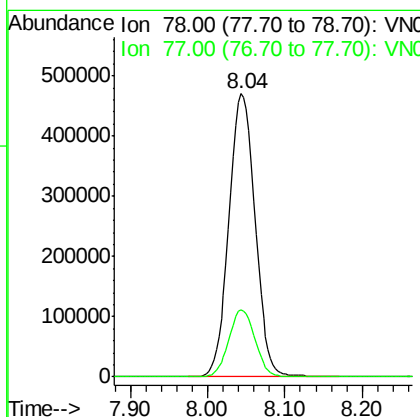
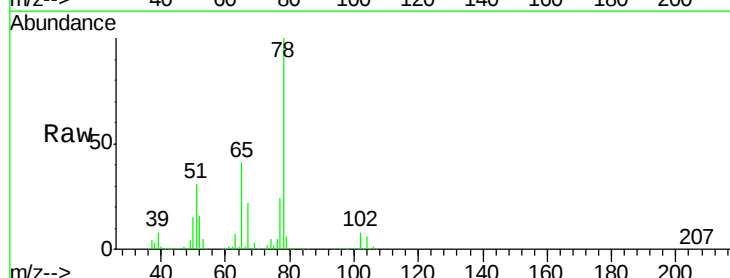
Manual Integrations
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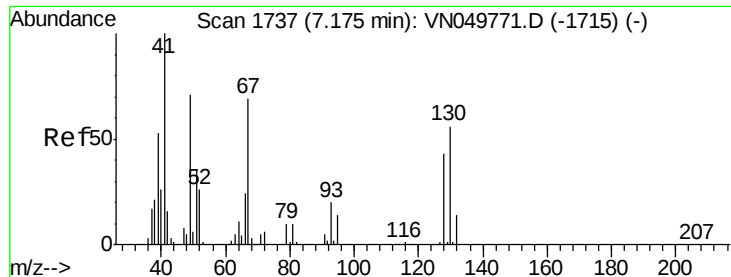
MMDadoda
7/16/2018 11:02:50 AM



#40
Benzene
Concen: 19.17 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.7	19.0	28.4





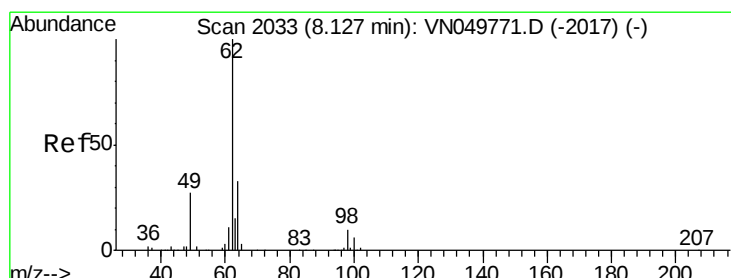
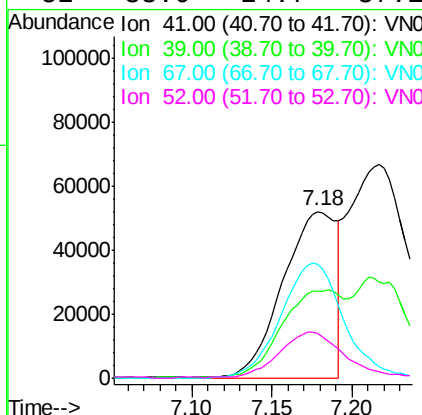
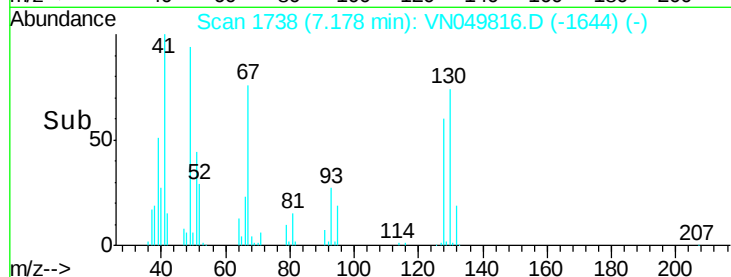
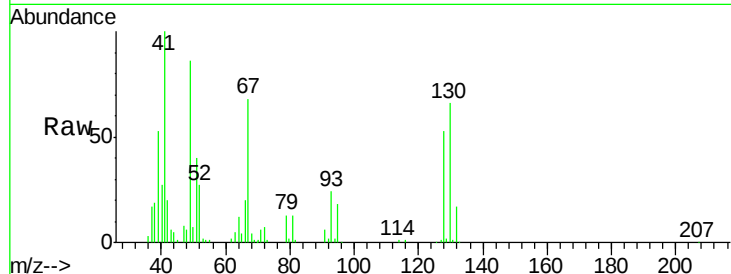
#41
Methacrylonitrile
Concen: 18.82 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ion	Ratio	Resp	Lower	Upper
41	100		121268		
39	61.6	45.4	68.2		
67	81.7	65.4	98.0		
52	33.0	24.7	37.1		

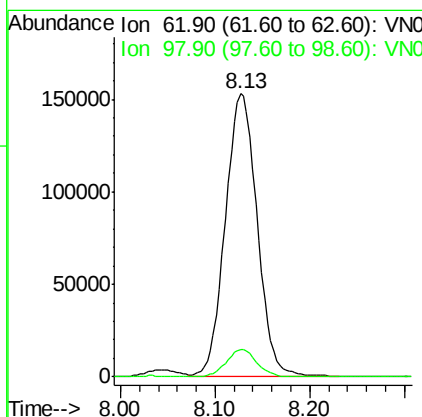
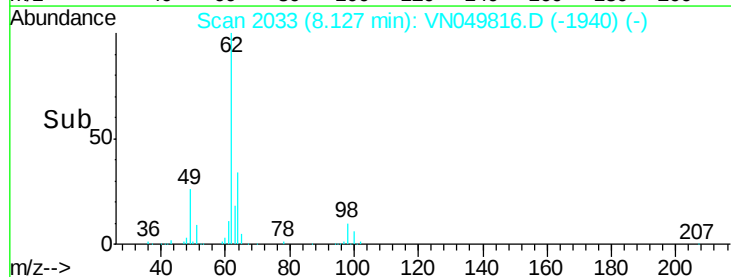
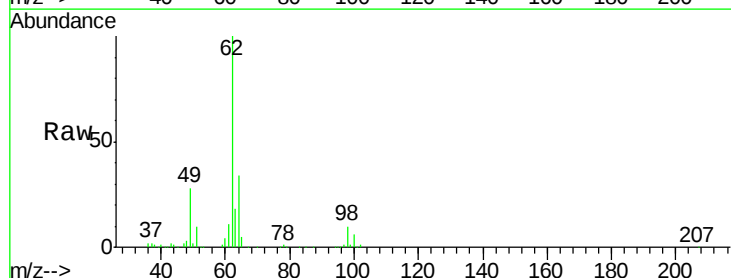
Manual Integrations
APPROVED

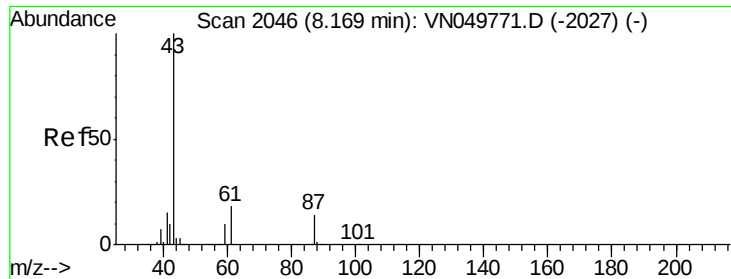
MMDadoda
7/16/2018 11:02:50 AM



#42
1,2-Dichloroethane
Concen: 18.95 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
62	100		356868		
98	9.4	0.0	19.0		





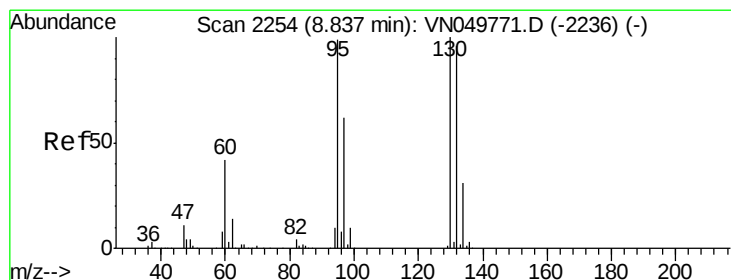
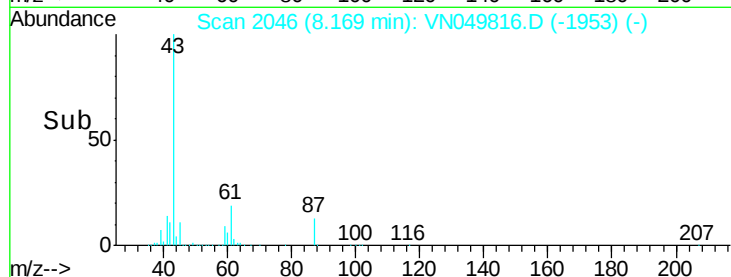
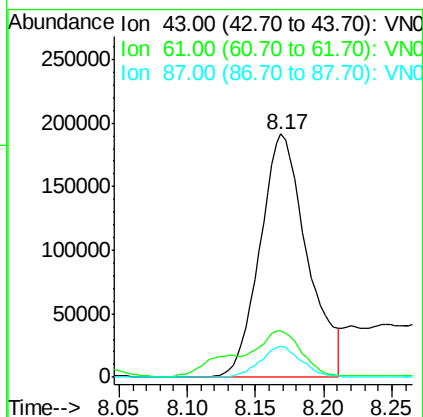
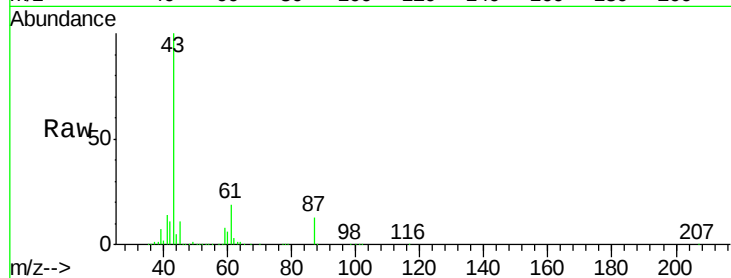
#43
Isopropyl Acetate
Concen: 22.27 ug/l
RT: 8.17 min Scan# 2046
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
43	100		
61	17.0	14.9	22.3
87	11.2	10.0	15.0

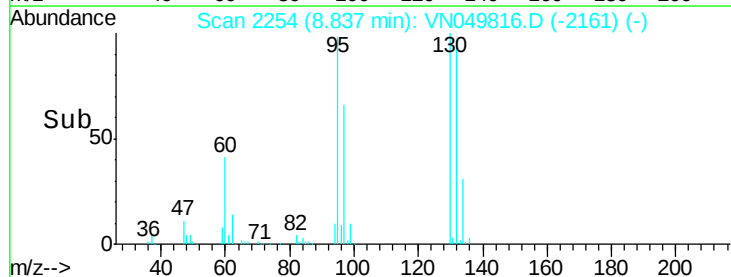
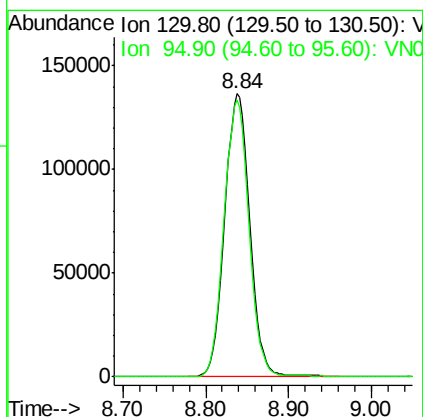
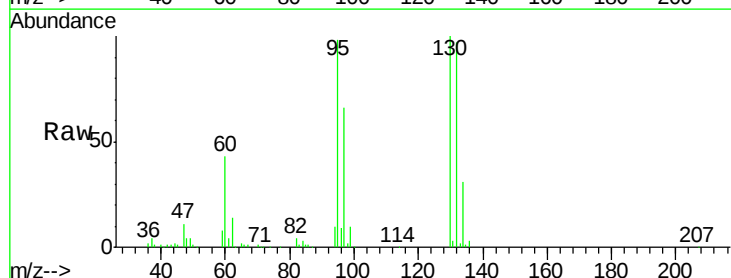
Manual Integrations
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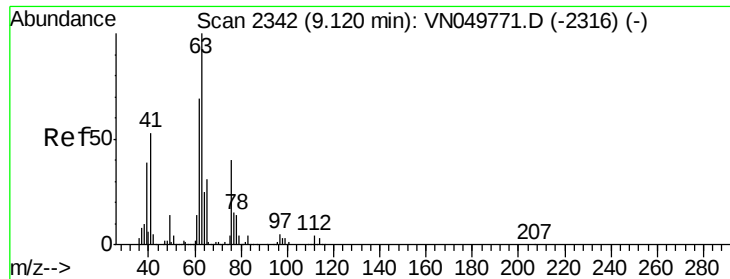
MMDadoda
7/16/2018 11:02:50 AM



#44
Trichloroethene
Concen: 18.59 ug/l
RT: 8.84 min Scan# 2254
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
130	100		
95	98.1	0.0	192.8





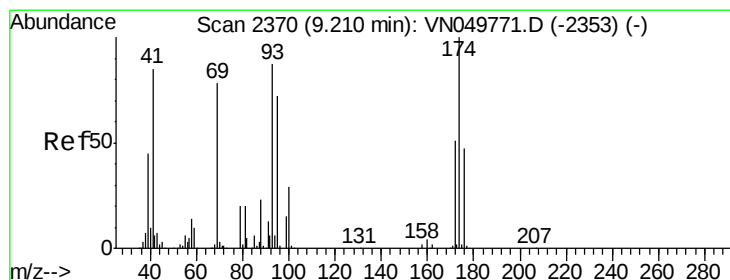
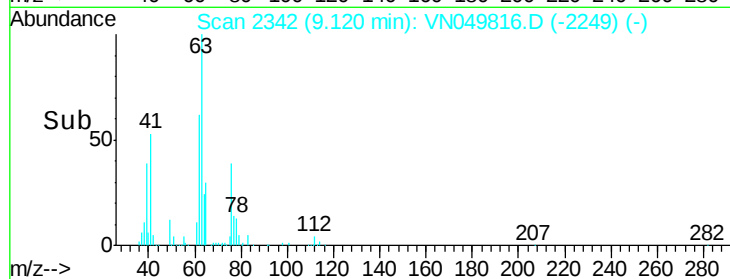
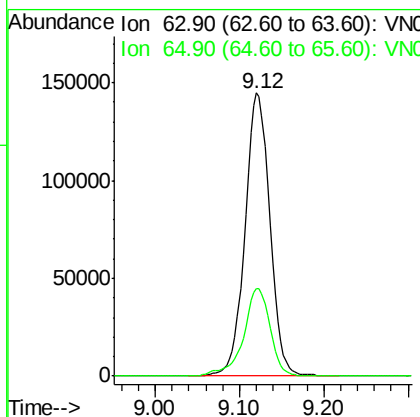
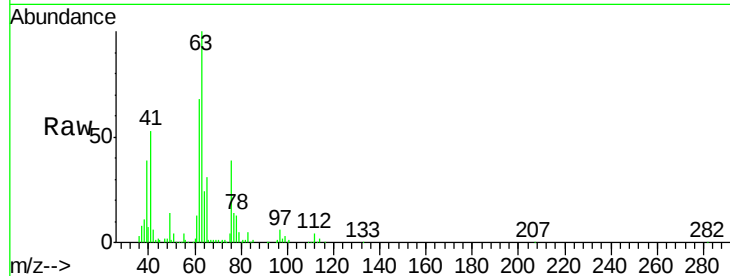
#45
 1,2-Dichloropropane
 Concen: 19.24 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.1	24.7	37.1

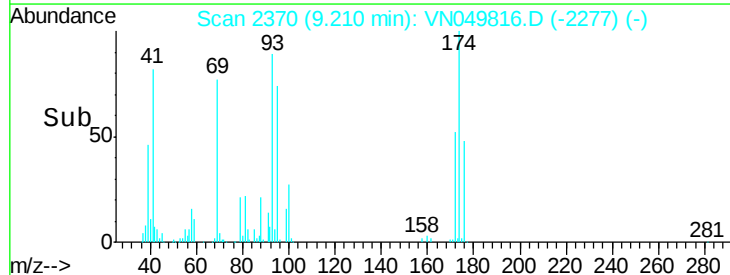
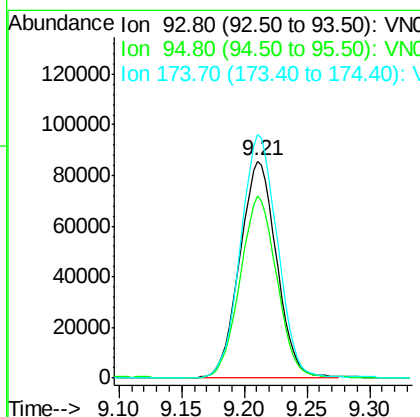
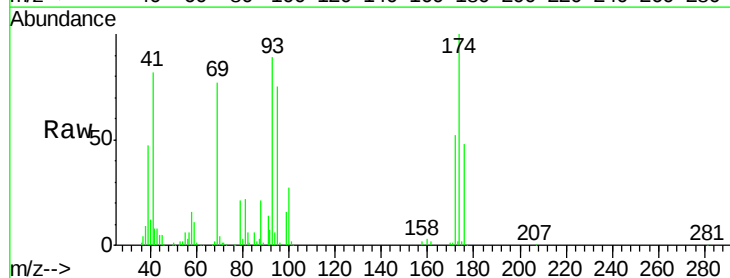
Manual Integrations
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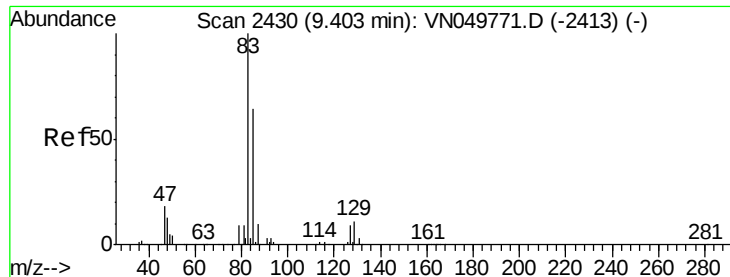
MMDadoda
 7/16/2018 11:02:50 AM



#46
 Dibromomethane
 Concen: 19.10 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. 0.00 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
93	100		
95	83.5	67.9	101.9
174	111.9	89.4	134.0





#47

Bromodichloromethane

Concen: 19.08 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

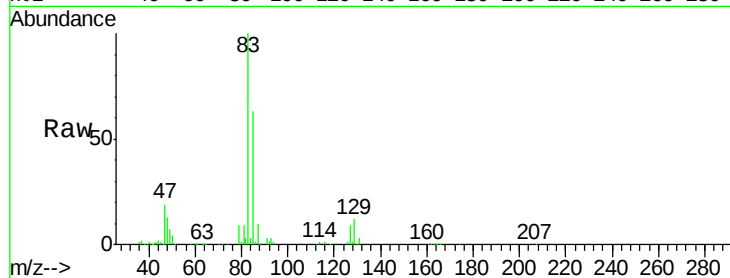
ClientSampleId :

VN0713WBSD02

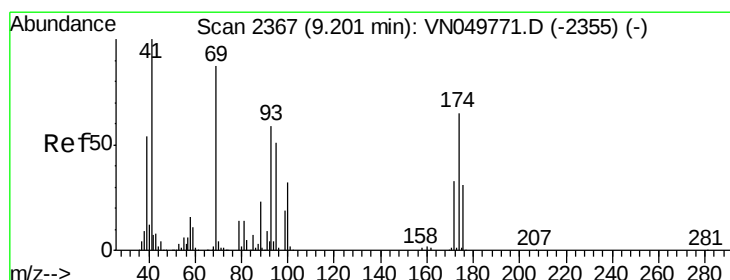
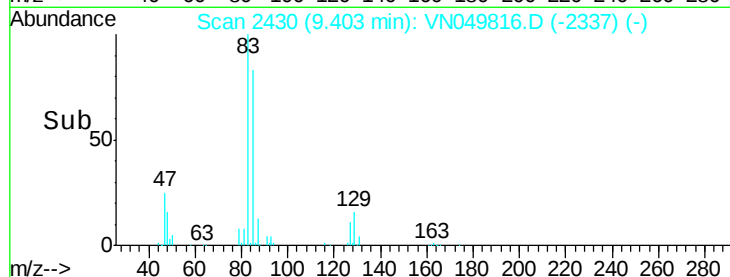
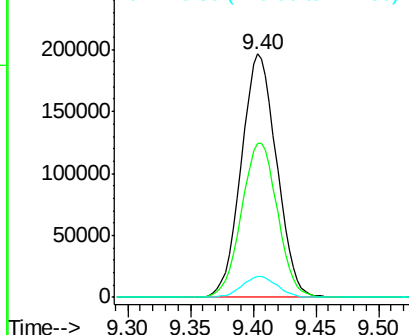
Tot Ion:	83	Resp:	386129
Ion Ratio	Lower	Upper	
83	100		
85	63.0	50.5	75.7
127	8.6	6.8	10.2

Manual Integrations
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Abundance Ion 82.90 (82.60 to 83.60): VN0
Ion 84.90 (84.60 to 85.60): VN0
Ion 126.80 (126.50 to 127.50): V



#48

Methyl methacrylate

Concen: 18.67 ug/l

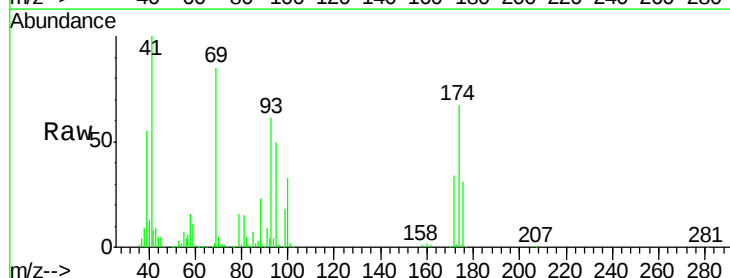
RT: 9.20 min Scan# 2367

Delta R.T. 0.00 min

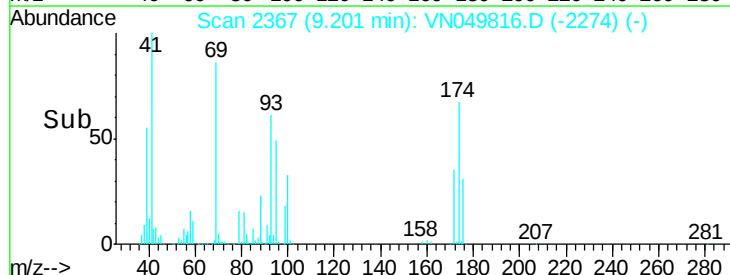
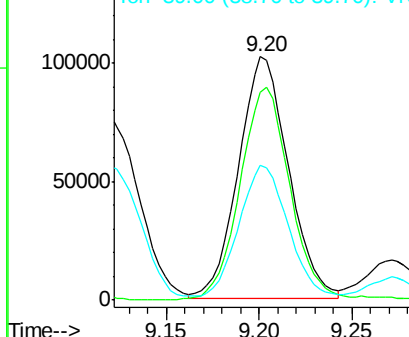
Lab File: VN049816.D

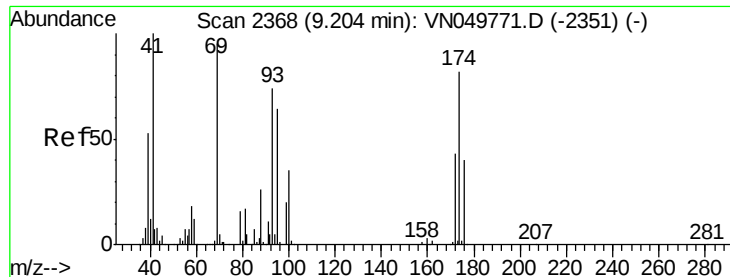
Acq: 14 Jul 2018 00:21

Tgt Ion:	41	Resp:	191160
Ion Ratio	Lower	Upper	
41	100		
69	87.9	71.5	107.3
39	55.2	44.7	67.1



Abundance Ion 41.00 (40.70 to 41.70): VN0
Ion 69.00 (68.70 to 69.70): VN0
Ion 39.00 (38.70 to 39.70): VN0





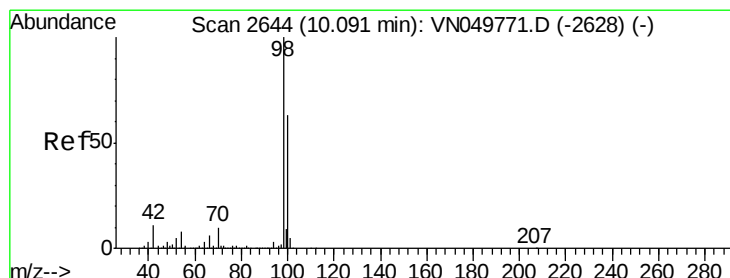
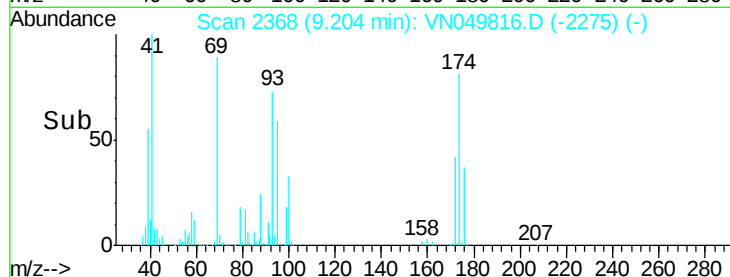
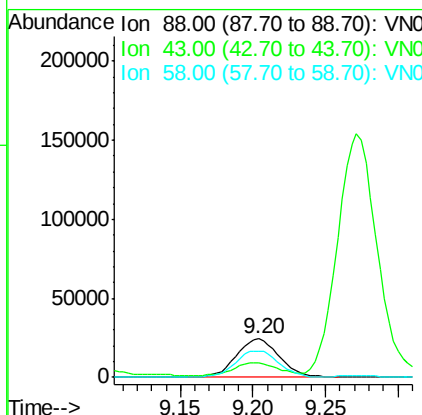
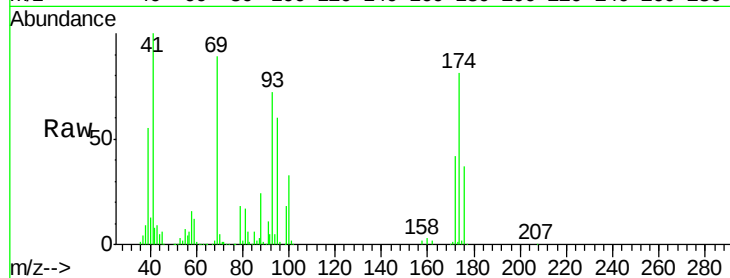
#49
1,4-Dioxane
Concen: 374.66 ug/l
RT: 9.20 min Scan# 2368
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.3	25.1	37.7
58	69.5	52.5	78.7

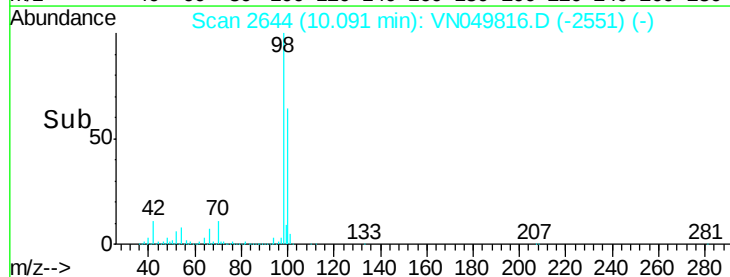
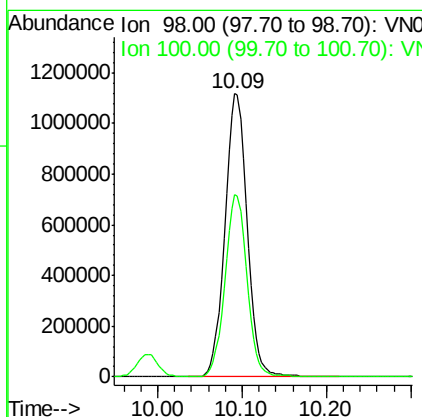
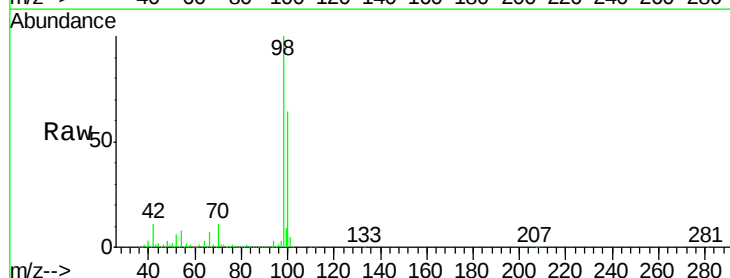
Manual Integrations
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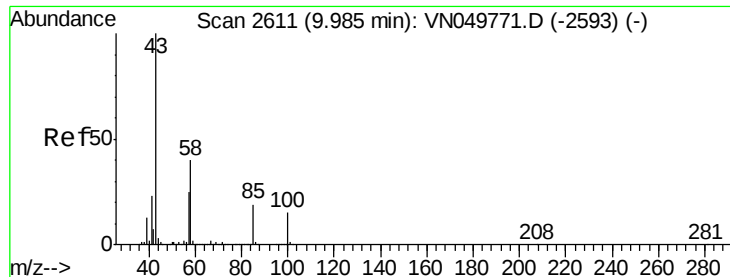
MMDadoda
7/16/2018 11:02:50 AM



#50
Toluene-d8
Concen: 47.38 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
98	100		
100	63.7	51.7	77.5





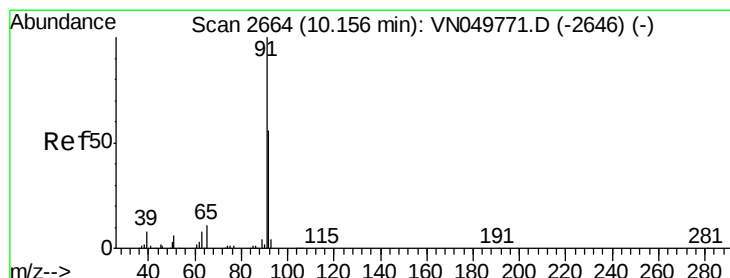
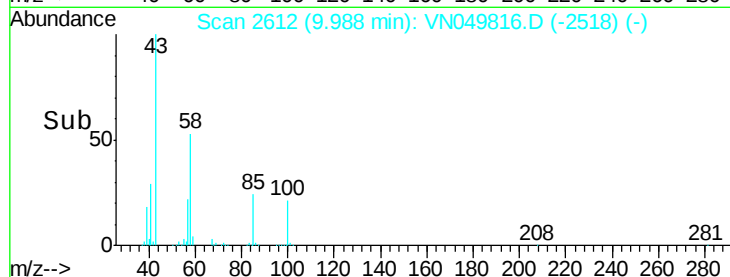
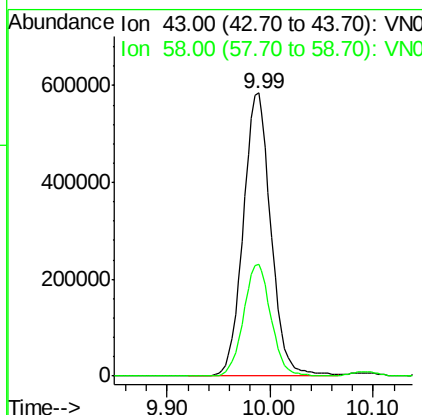
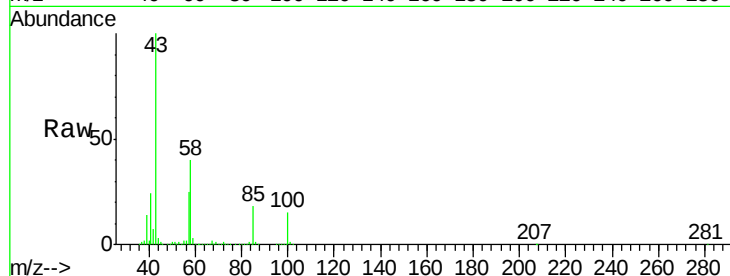
#51
4-Methyl-2-Pentanone
Concen: 97.53 ug/l
RT: 9.99 min Scan# 2612
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion: 43 Resp: 1084296
Ion Ratio Lower Upper
43 100
58 39.3 31.8 47.8

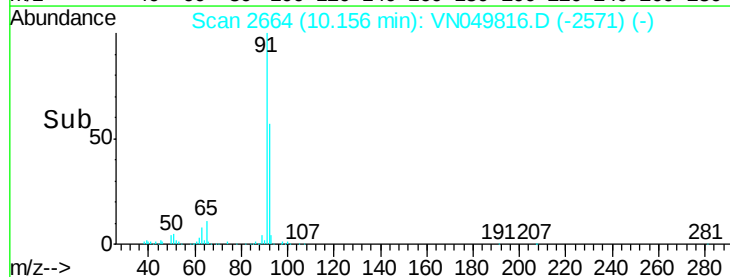
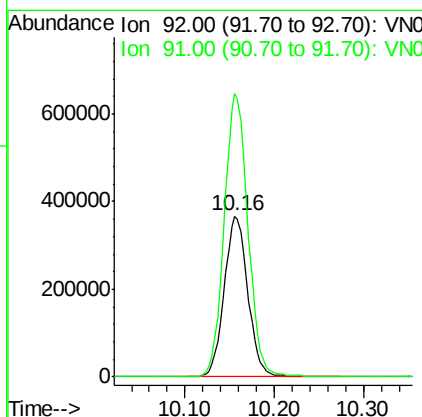
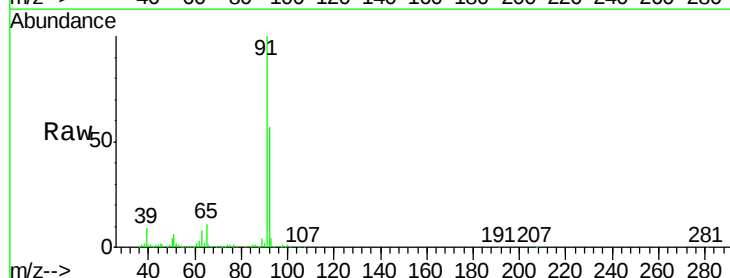
Manual Integrations
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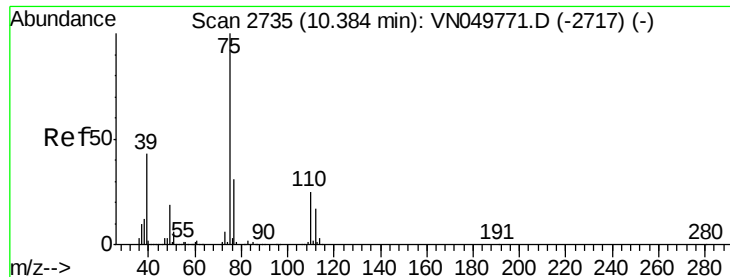
MMDadoda
7/16/2018 11:02:50 AM



#52
Toluene
Concen: 19.45 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion: 92 Resp: 670285
Ion Ratio Lower Upper
92 100
91 177.9 140.1 210.1





#53

t-1,3-Dichloropropene

Concen: 17.99 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD02

Tot Ion: 75 Resp: 350257

Ion Ratio Lower Upper

75 100

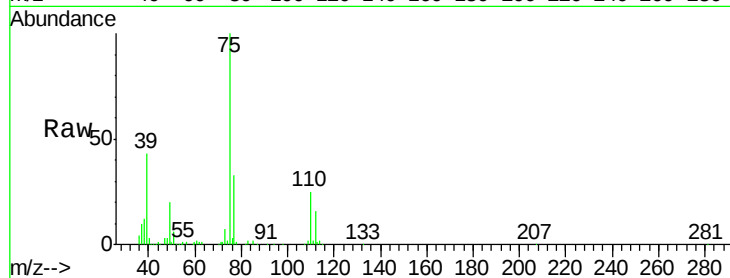
77 32.5 25.2 37.8

Manual Integrations

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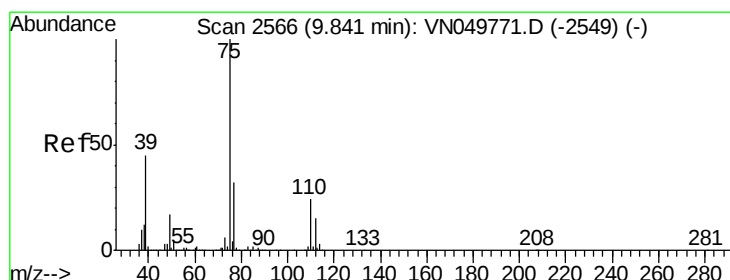
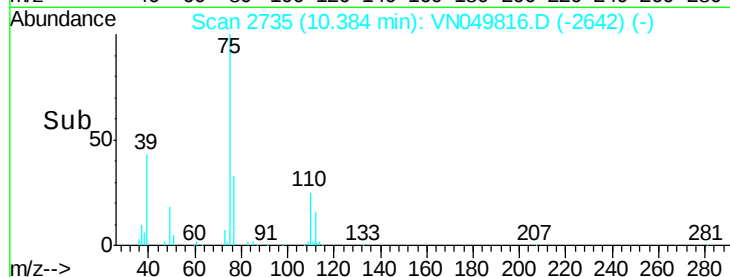
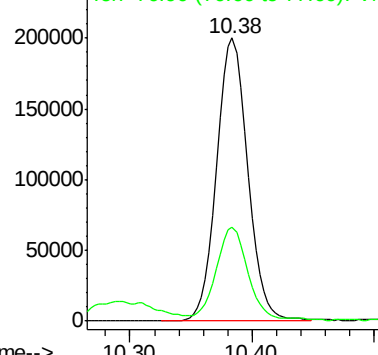
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Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0



#54

cis-1,3-Dichloropropene

Concen: 18.42 ug/l

RT: 9.84 min Scan# 2566

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

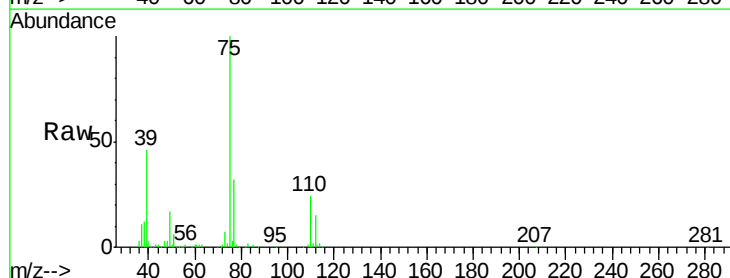
Tgt Ion: 75 Resp: 408470

Ion Ratio Lower Upper

75 100

77 32.1 25.3 37.9

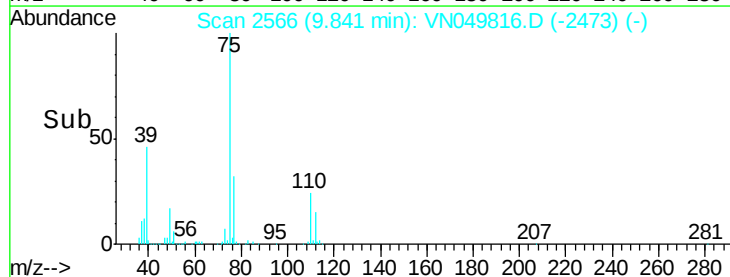
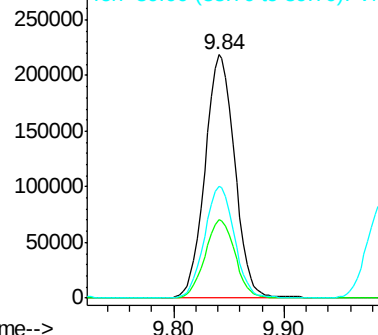
39 45.9 35.5 53.3

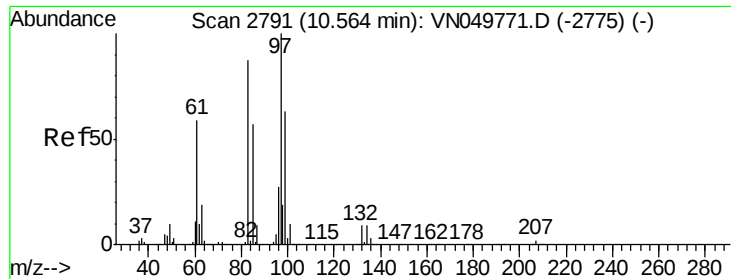


Abundance Ion 74.90 (74.60 to 75.60): VN0

Ion 76.90 (76.60 to 77.60): VN0

Ion 39.00 (38.70 to 39.70): VN0





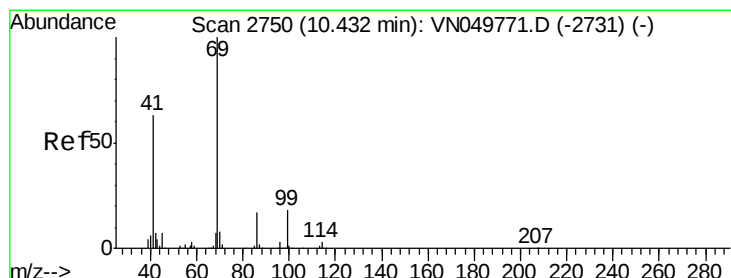
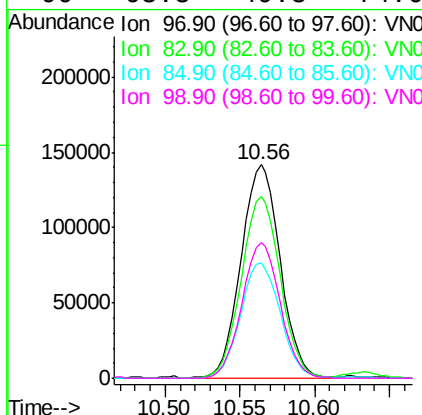
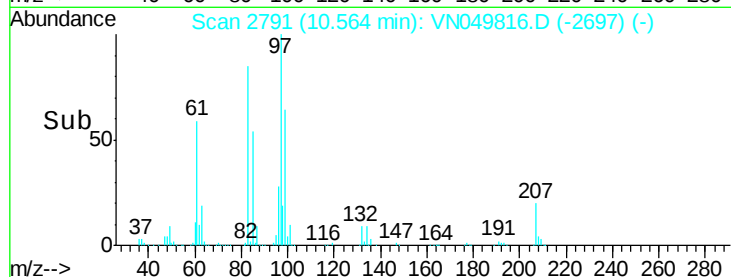
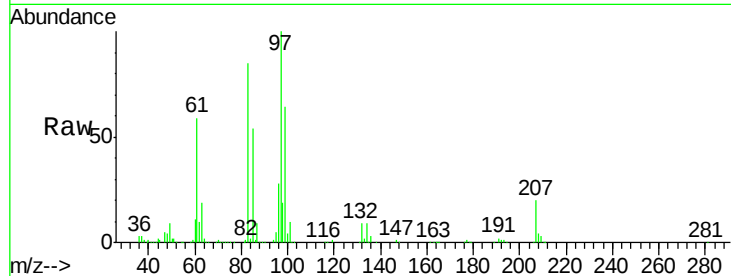
#55
 1,1,2-Trichloroethane
 Concen: 19.46 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0713WBSD02

Tot Ion	97	Resp	259100
Ion	Ratio	Lower	Upper
97	100		
83	85.0	69.0	103.6
85	53.9	44.9	67.3
99	63.8	49.8	74.6

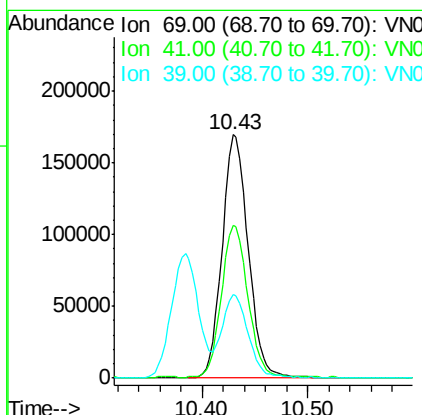
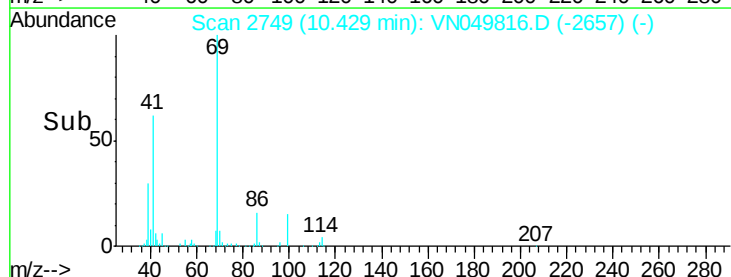
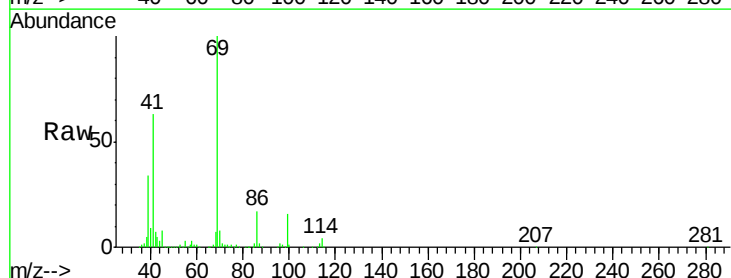
Manual Integrations
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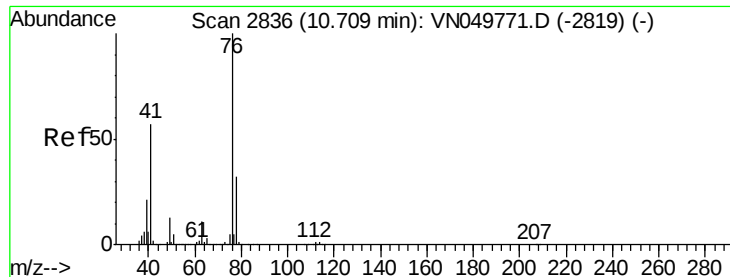
MMDadoda
 7/16/2018 11:02:50 AM



#56
 Ethyl methacrylate
 Concen: 18.74 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. -0.00 min
 Lab File: VN049816.D
 Acq: 14 Jul 2018 00:21

Tgt Ion	69	Resp	291466
Ion	Ratio	Lower	Upper
69	100		
41	62.4	51.6	77.4
39	33.7	25.8	38.8





#57

1,3-Dichloropropane

Concen: 18.99 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD02

Tot Ion: 76 Resp: 416930

Ion Ratio Lower Upper

76 100

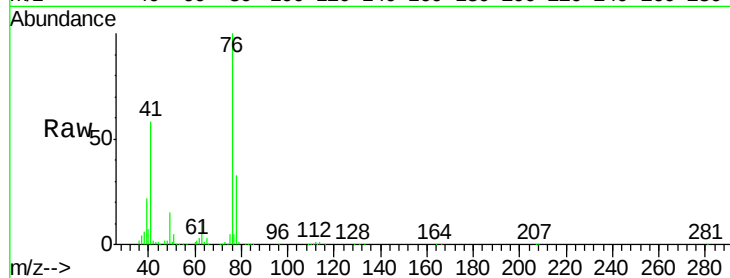
78 33.0 25.8 38.8

Manual Integrations

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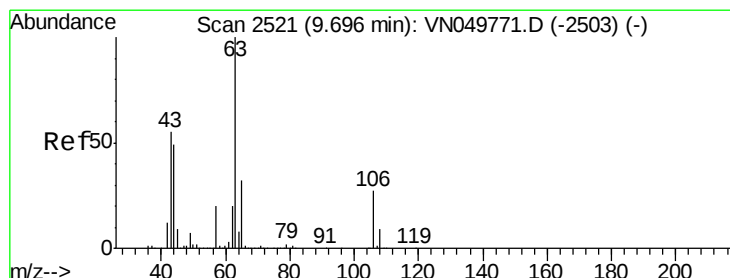
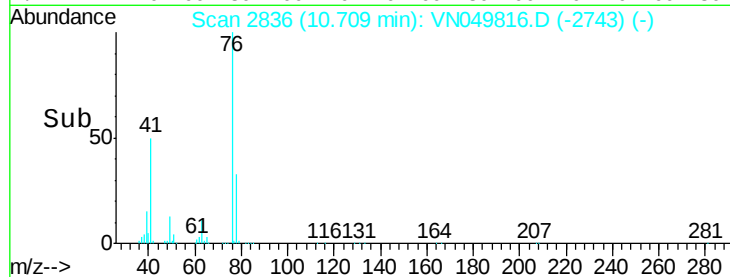
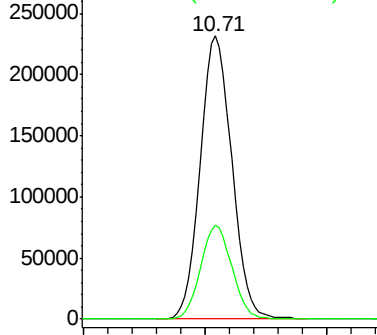
MMDadoda

7/16/2018 11:02:50 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 94.98 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. 0.00 min

Lab File: VN049816.D

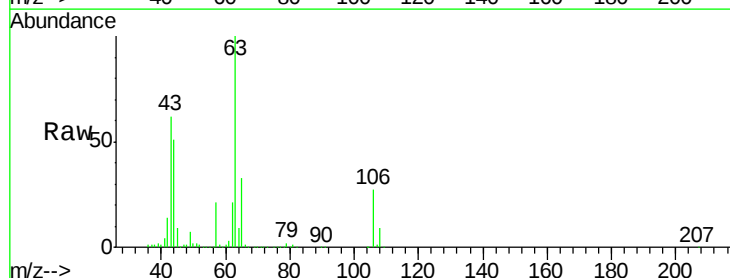
Acq: 14 Jul 2018 00:21

Tgt Ion: 63 Resp: 708496

Ion Ratio Lower Upper

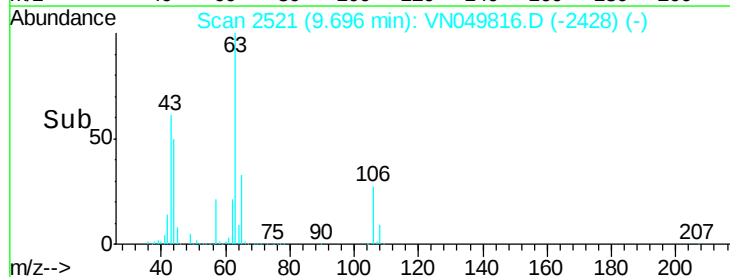
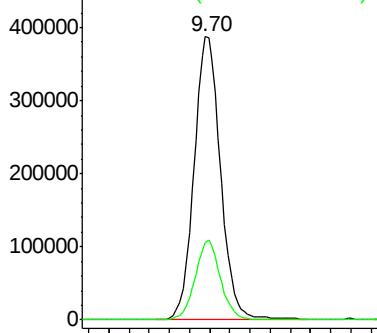
63 100

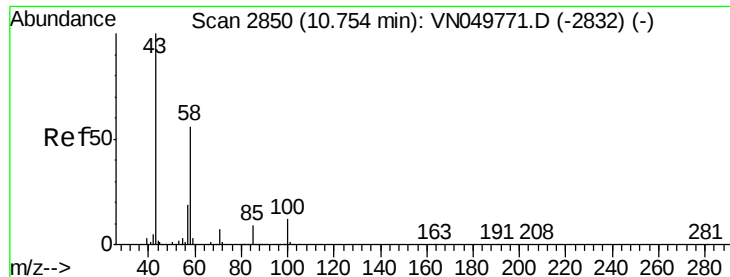
106 26.9 21.8 32.8



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





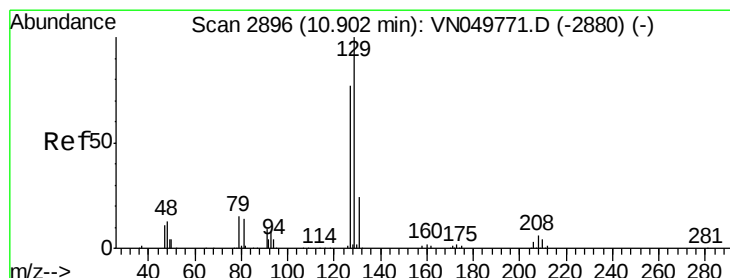
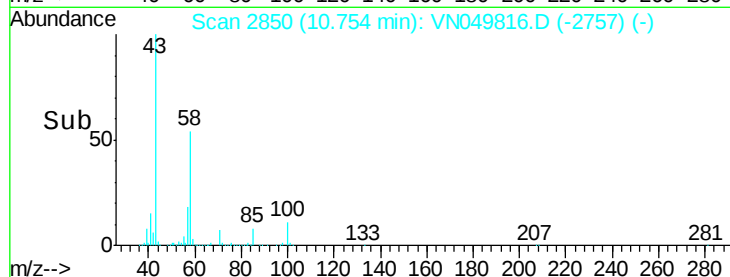
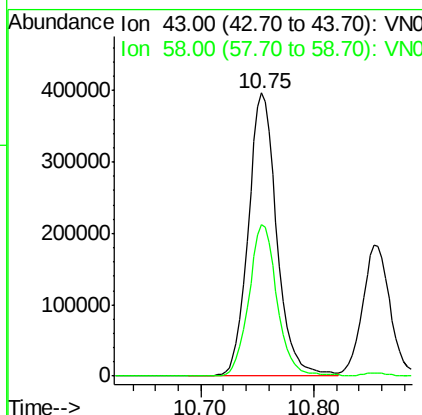
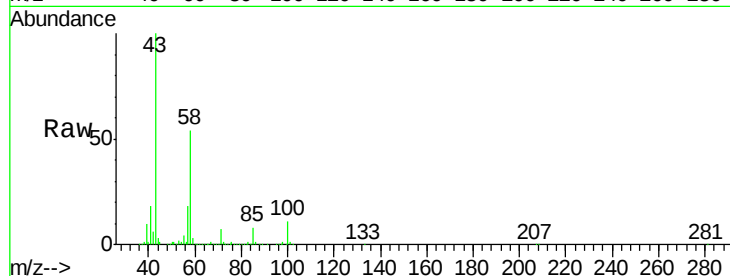
#59
2-Hexanone
Concen: 93.27 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion: 43 Resp: 689402
Ion Ratio Lower Upper
43 100
58 53.3 27.8 83.4

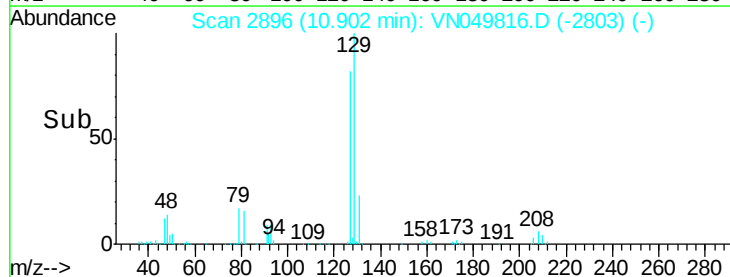
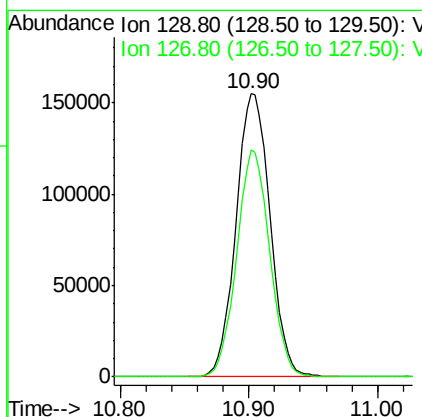
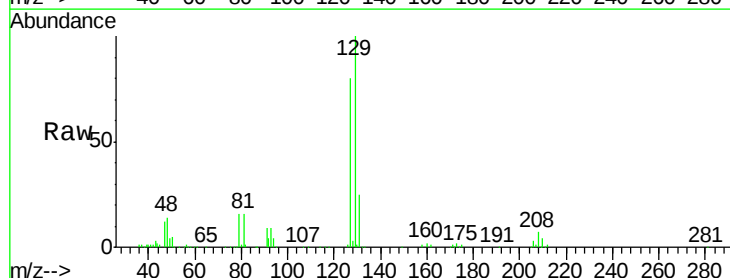
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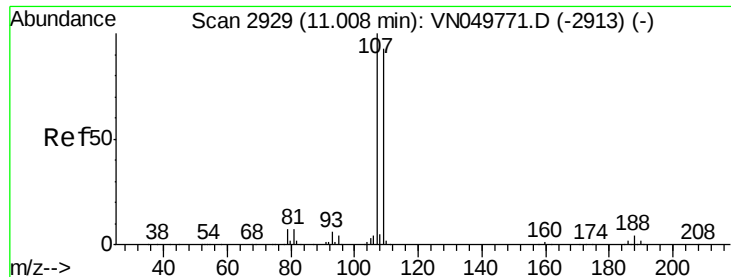
MMDadoda
7/16/2018 11:02:50 AM



#60
Dibromochloromethane
Concen: 18.86 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion: 129 Resp: 284751
Ion Ratio Lower Upper
129 100
127 77.6 38.3 114.9





#61

1,2-Dibromoethane

Concen: 19.35 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD02

Tot Ion:107 Resp: 242703

Ion Ratio Lower Upper

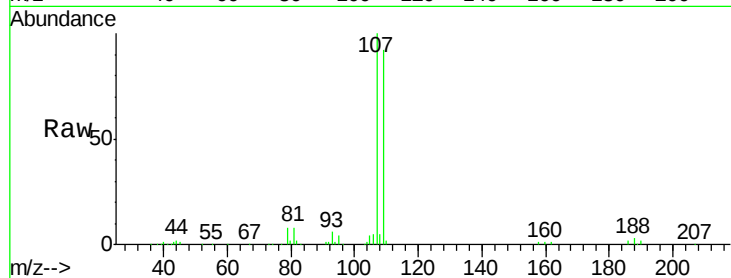
107 100

109 92.1 75.0 112.6

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7/16/2018 11:02:50 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

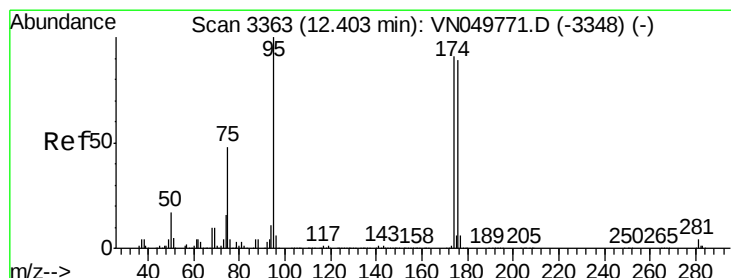
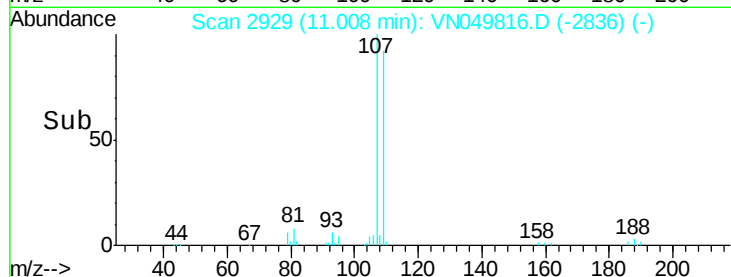
150000

100000

50000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 46.74 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

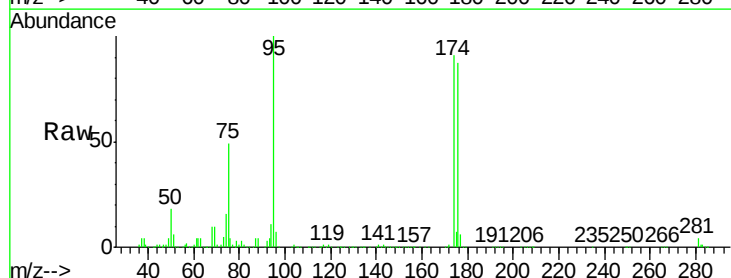
Tgt Ion: 95 Resp: 719417

Ion Ratio Lower Upper

95 100

174 90.5 0.0 179.6

176 87.9 0.0 174.0



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

12.40

600000

500000

400000

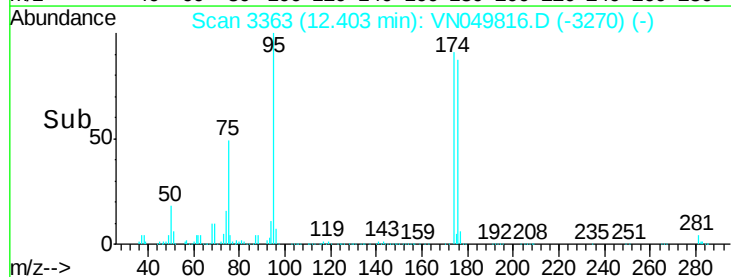
300000

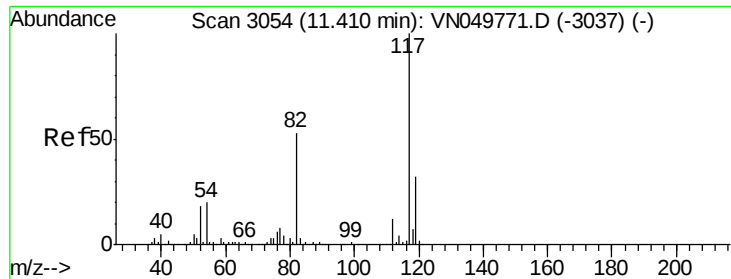
200000

100000

0

Time--> 12.35 12.40 12.45





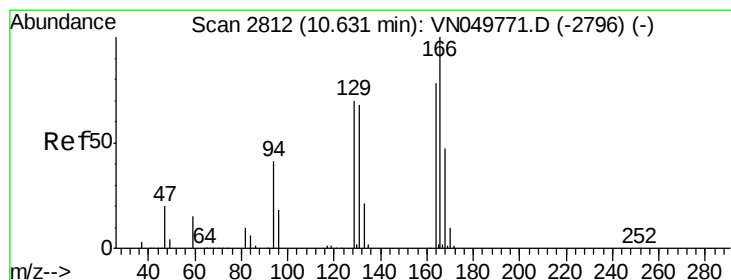
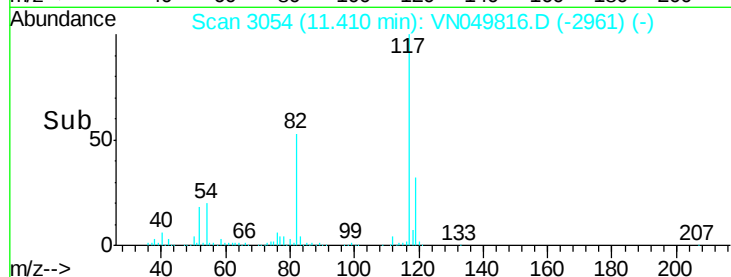
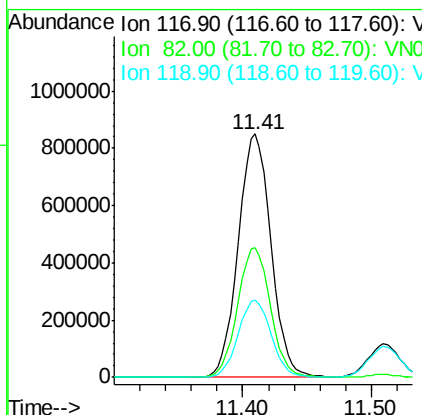
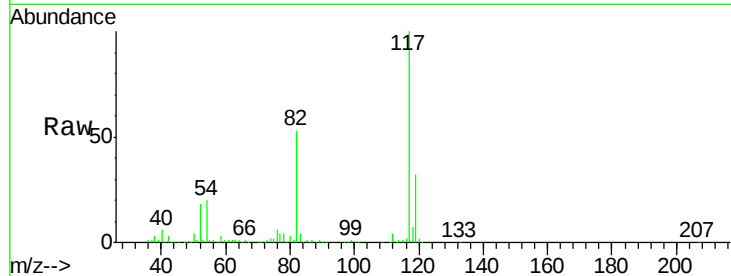
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion:117 Resp: 1504439
Ion Ratio Lower Upper
117 100
82 53.4 41.9 62.9
119 31.8 25.4 38.2

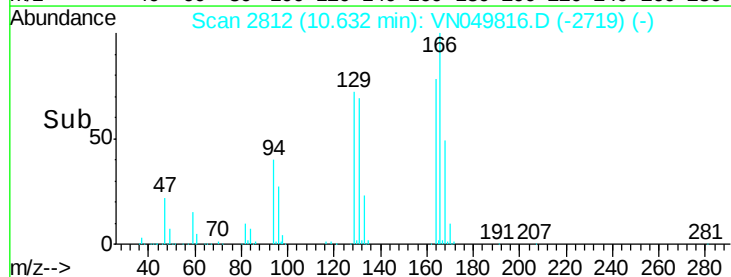
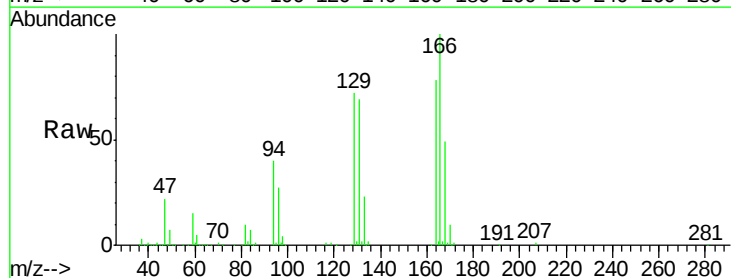
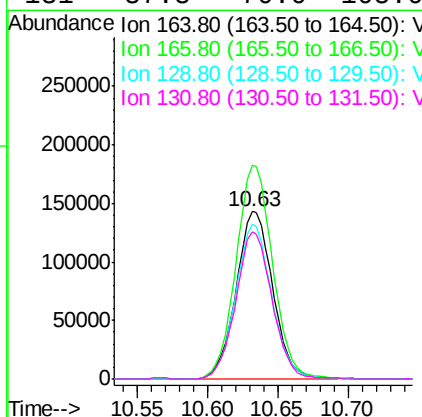
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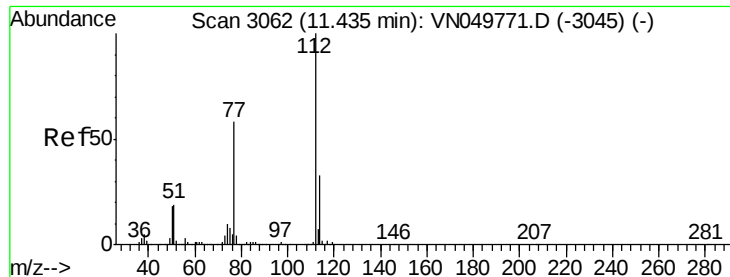
MMDadoda
7/16/2018 11:02:50 AM



#64
Tetrachloroethene
Concen: 19.04 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion:164 Resp: 260055
Ion Ratio Lower Upper
164 100
166 127.6 101.8 152.6
129 92.3 72.8 109.2
131 87.8 70.0 105.0





#65

Chlorobenzene

Concen: 18.95 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD02

Tot Ion:112 Resp: 742620

Ion Ratio Lower Upper

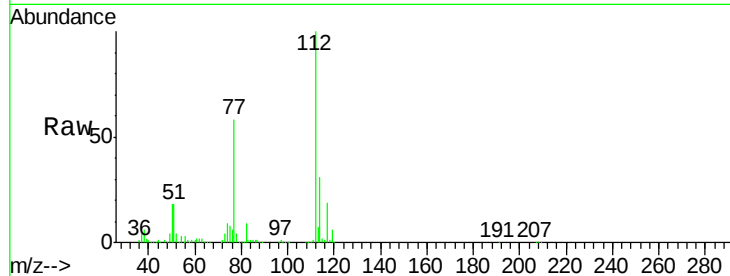
112 100

114 31.3 25.4 38.0

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Abundance Ion 111.90 (111.60 to 112.60): V

Ion 113.90 (113.60 to 114.60): V

11.44

400000

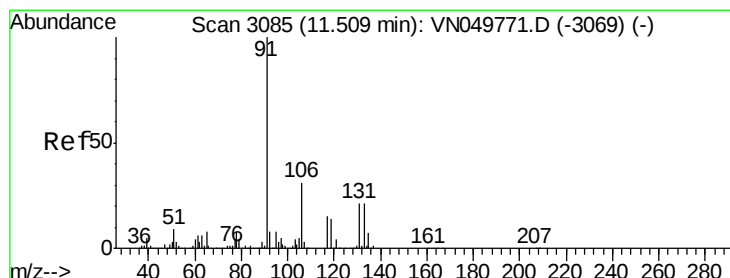
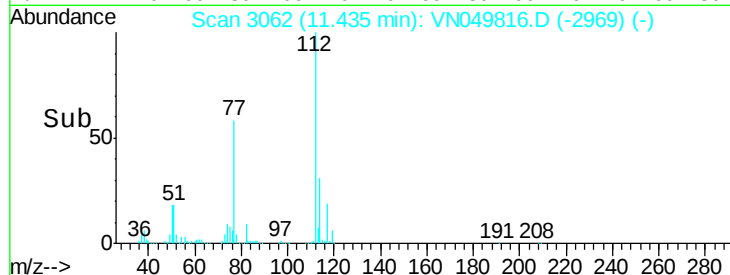
300000

200000

100000

0

Time-->



#66

1,1,1,2-Tetrachloroethane

Concen: 19.60 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

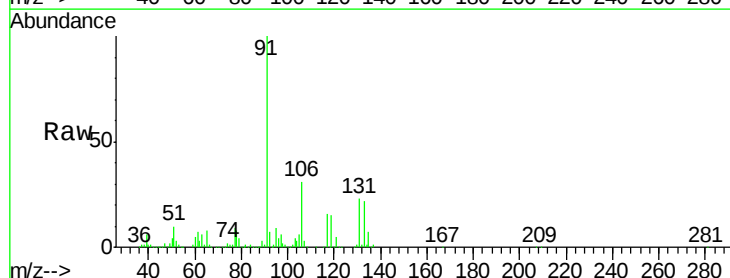
Tgt Ion:131 Resp: 288980

Ion Ratio Lower Upper

131 100

133 94.9 47.5 142.6

119 65.3 33.1 99.3



Abundance Ion 130.80 (130.50 to 131.50): V

Ion 132.80 (132.50 to 133.50): V

Ion 118.80 (118.50 to 119.50): V

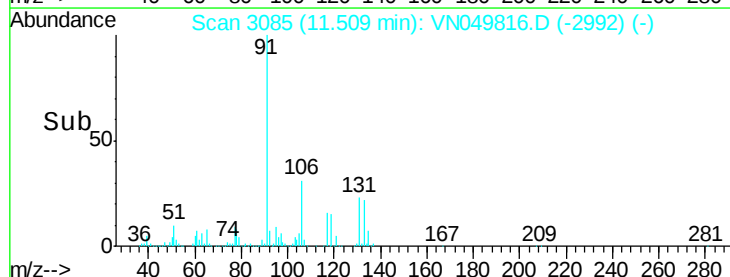
300000

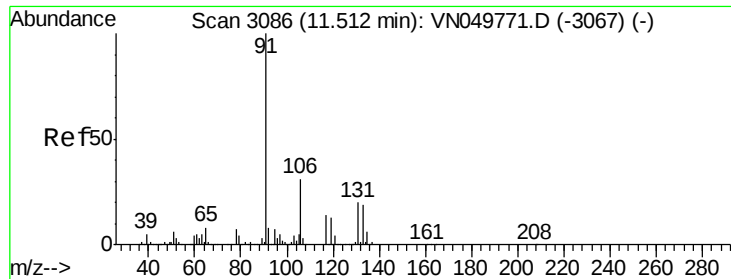
200000

100000

0

Time-->





#67

Ethyl Benzene

Concen: 18.80 ug/l

RT: 11.51 min Scan# 3086

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

ClientSampled :

VN0713WBSD02

Tot Ion: 91 Resp: 1206889

Ion Ratio Lower Upper

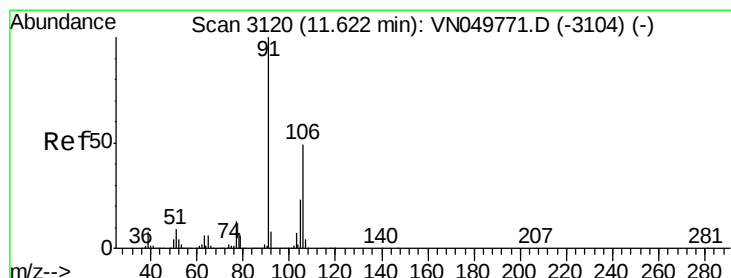
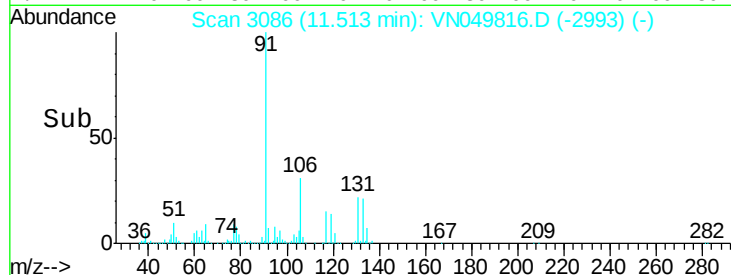
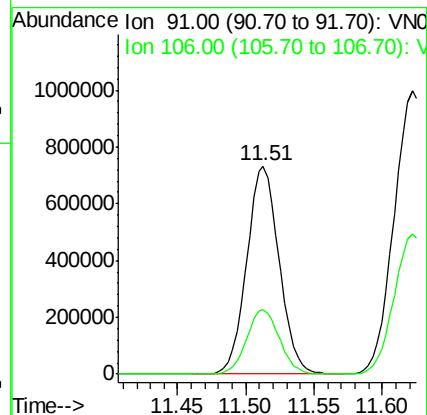
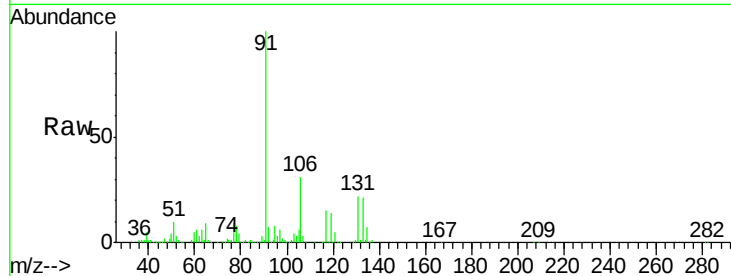
91 100

106 30.8 24.8 37.2

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7/16/2018 11:02:50 AM



#68

m/p-Xylenes

Concen: 39.06 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN049816.D

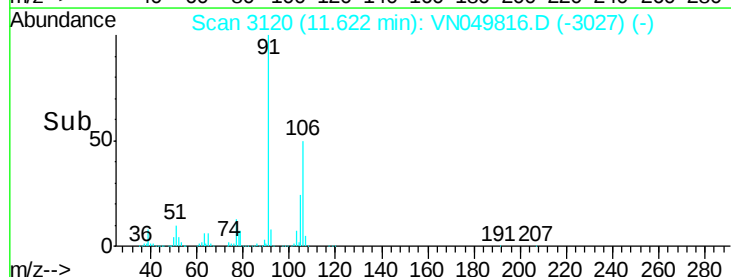
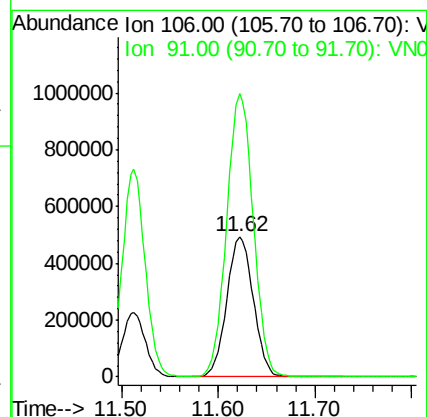
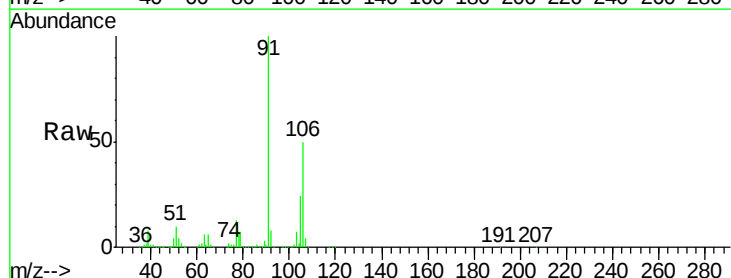
Acq: 14 Jul 2018 00:21

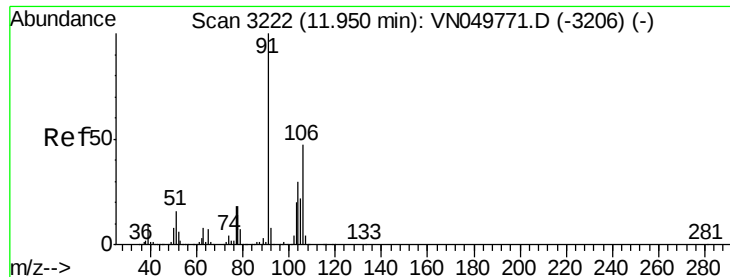
Tgt Ion: 106 Resp: 940966

Ion Ratio Lower Upper

106 100

91 202.5 163.4 245.2





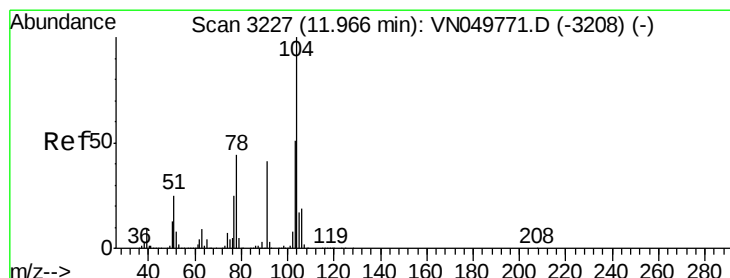
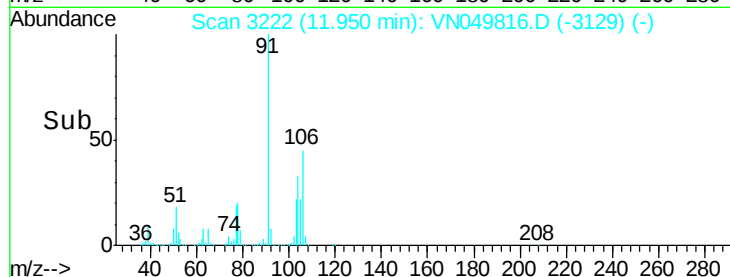
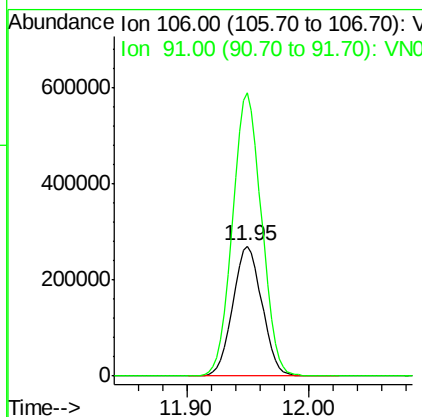
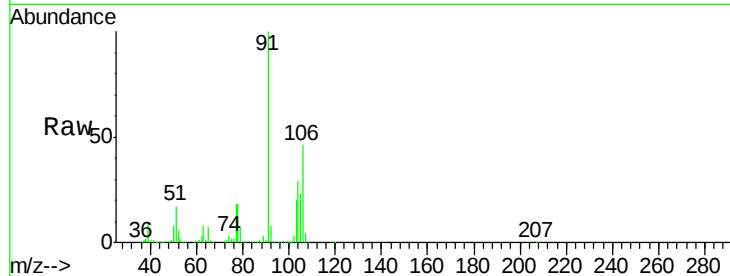
#69
o-Xylene
Concen: 19.30 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion:106 Resp: 449222
Ion Ratio Lower Upper
106 100
91 216.5 108.7 326.1

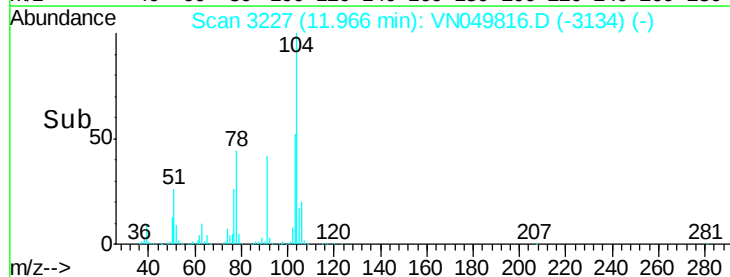
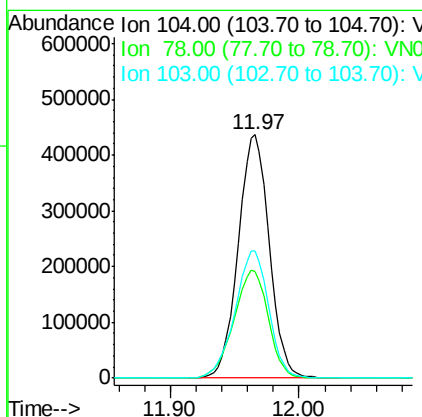
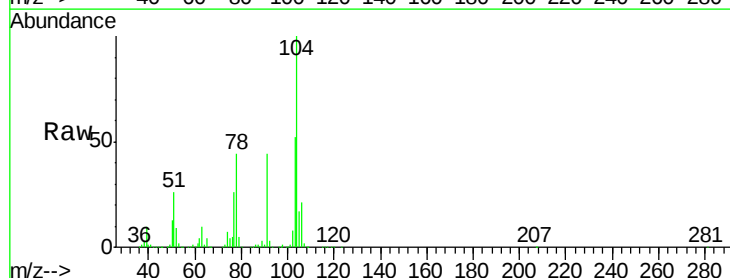
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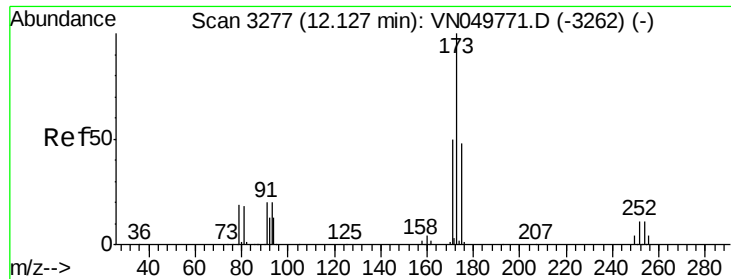
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#70
Styrene
Concen: 19.80 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion:104 Resp: 731902
Ion Ratio Lower Upper
104 100
78 49.2 39.2 58.8
103 56.8 44.6 67.0





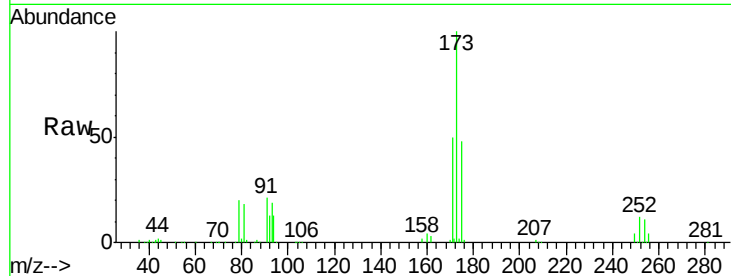
#71
Bromoform
Concen: 19.37 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

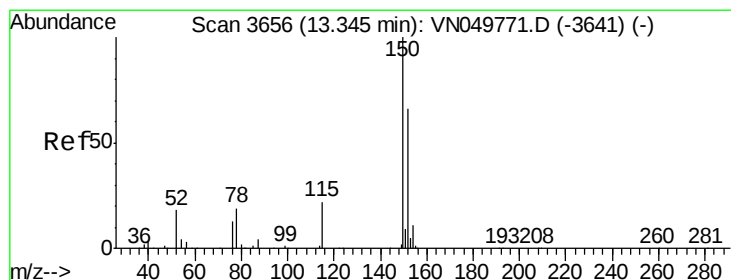
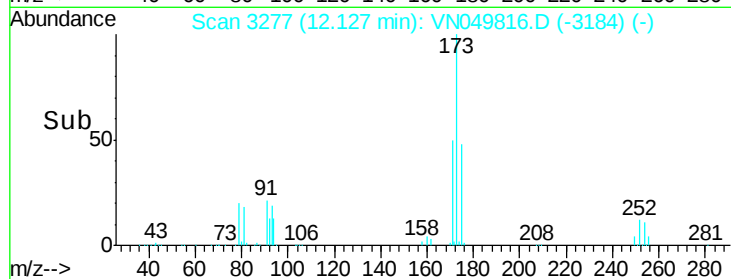
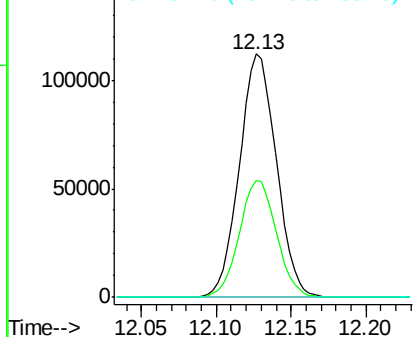
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.2	24.6	73.8
254	0.1	0.2	0.2#

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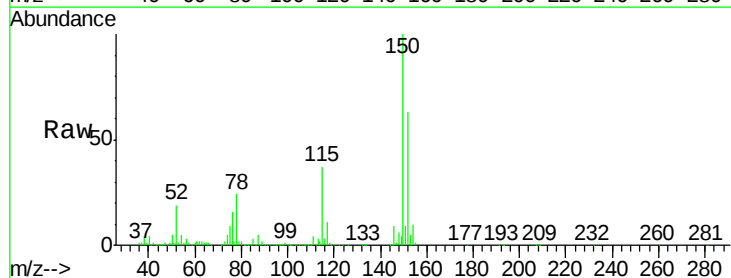


Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V

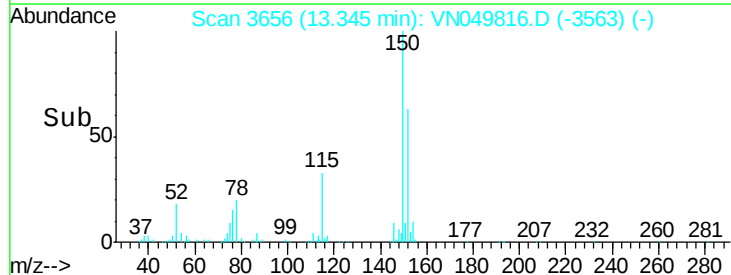
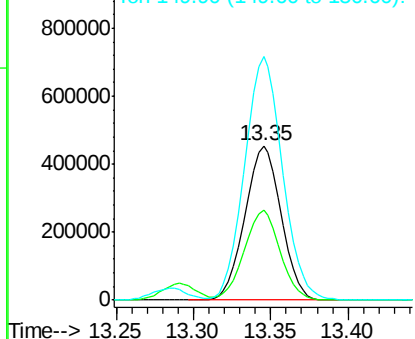


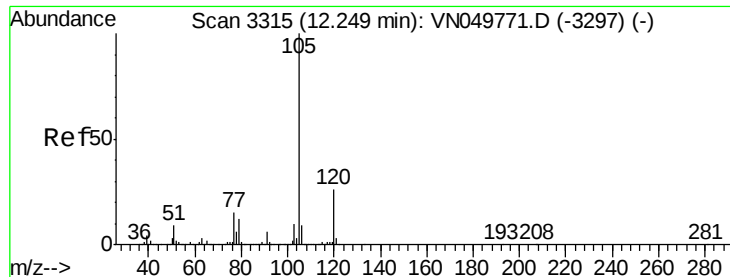
#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3656
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
152	100		
115	57.6	28.1	84.2
150	165.2	0.0	347.6



Abundance Ion 151.90 (151.60 to 152.60): V
Ion 114.90 (114.60 to 115.60): V
Ion 149.90 (149.60 to 150.60): V





#73

Isopropylbenzene

Concen: 19.56 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD02

Tot Ion:105 Resp: 1203293

Ion Ratio Lower Upper

105 100

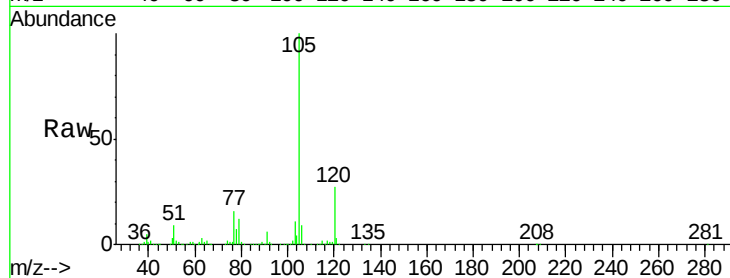
120 26.6 13.3 39.8

Manual Integrations

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7/16/2018 11:02:50 AM



Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

800000

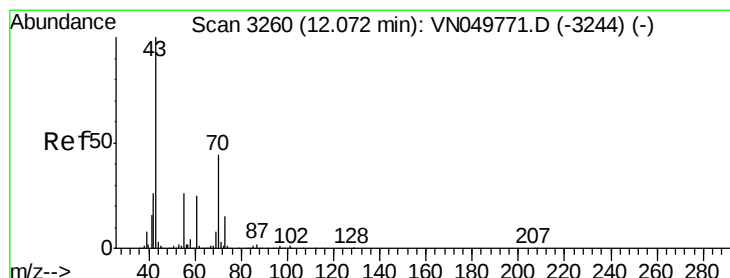
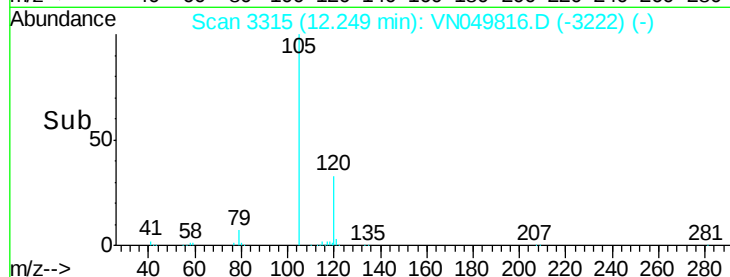
600000

400000

200000

0

Time-->



#74

N-ethyl acetate

Concen: 19.50 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Tgt Ion: 43 Resp: 312109

Ion Ratio Lower Upper

43 100

70 43.5 34.8 52.2

55 27.1 20.9 31.3

61 24.6 19.9 29.9

Abundance Ion 43.00 (42.70 to 43.70): V

Ion 70.00 (69.70 to 70.70): V

Ion 55.00 (54.70 to 55.70): V

Ion 61.00 (60.70 to 61.70): V

300000

250000

200000

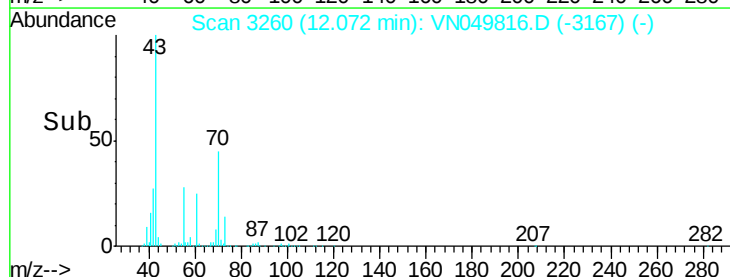
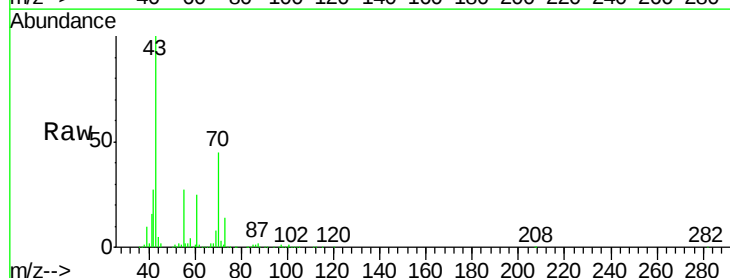
150000

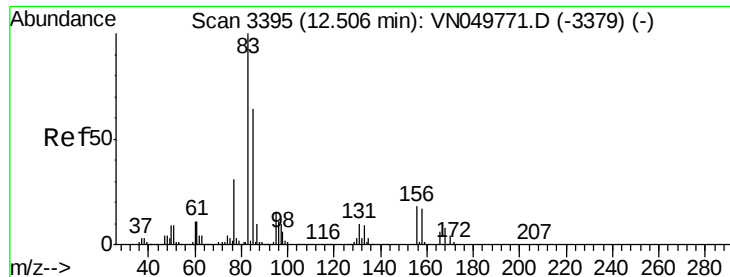
100000

50000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 21.01 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD02

Tot Ion: 83 Resp: 314096

Ion Ratio Lower Upper

83 100

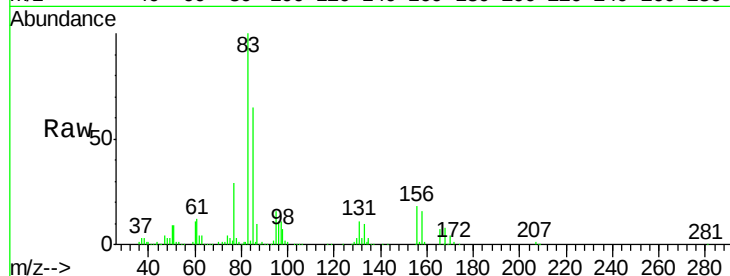
131 10.8 5.2 15.6

85 64.7 32.5 97.4

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MMDadoda

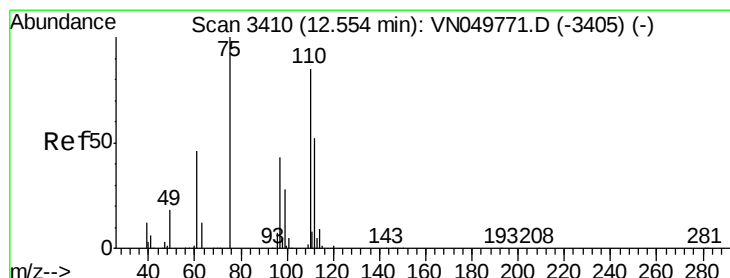
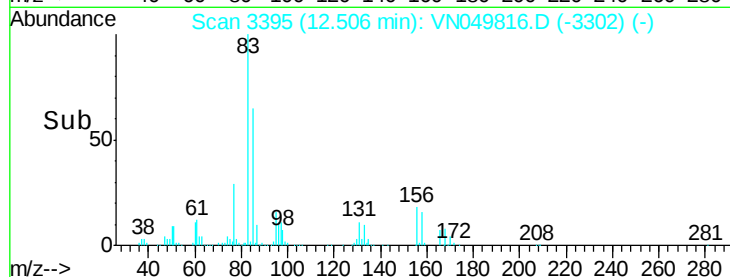
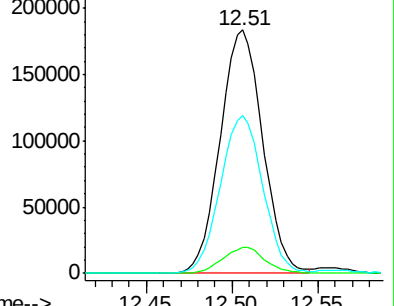
7/16/2018 11:02:50 AM



Abundance Ion 82.90 (82.60 to 83.60): VN049816.D (-3302) (-)

Ion 130.80 (130.50 to 131.50): VN049816.D (-3302) (-)

Ion 84.90 (84.60 to 85.60): VN049816.D (-3302) (-)



#76

1,2,3-Trichloropropane

Concen: 17.98 ug/l m

RT: 12.55 min Scan# 3410

Delta R.T. 0.00 min

Lab File: VN049816.D

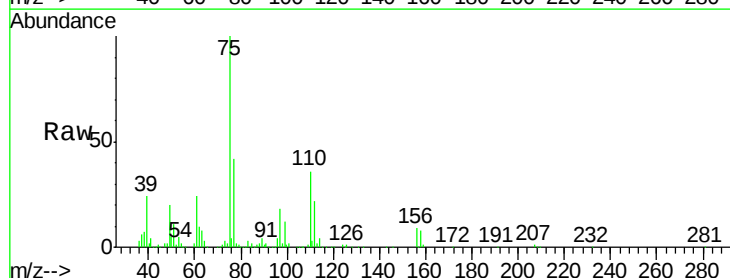
Acq: 14 Jul 2018 00:21

Tgt Ion: 75 Resp: 236507

Ion Ratio Lower Upper

75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

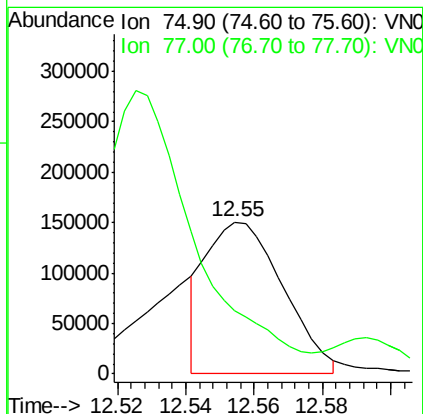
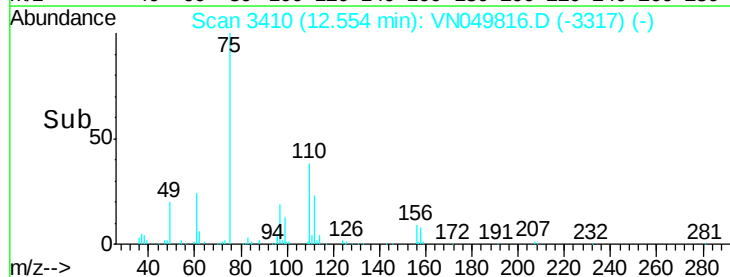
Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

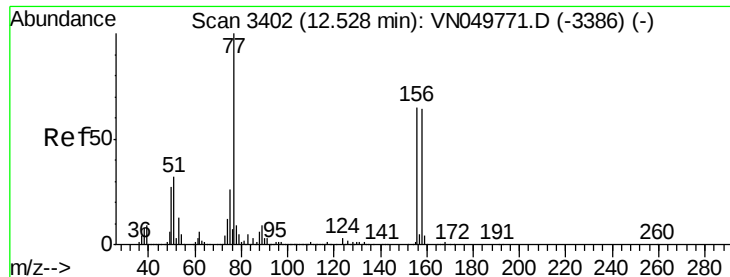
Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)

Ion 77.00 (76.70 to 77.70): VN049816.D (-3317) (-)





#77

Bromobenzene

Concen: 19.55 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

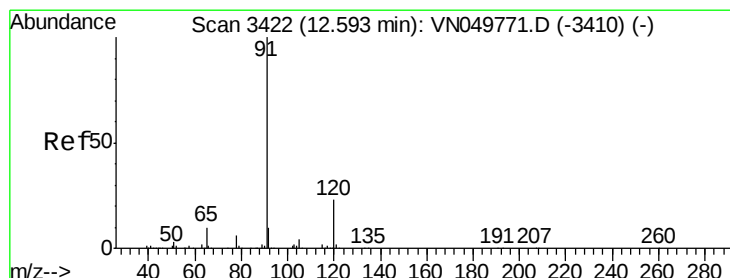
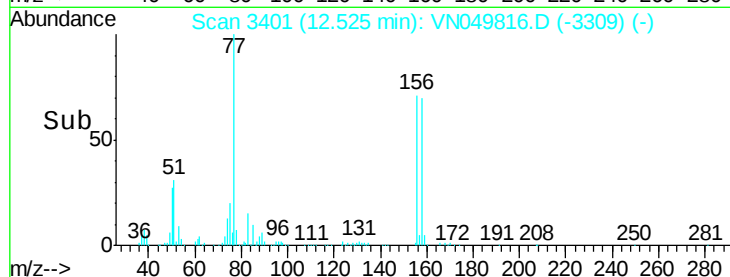
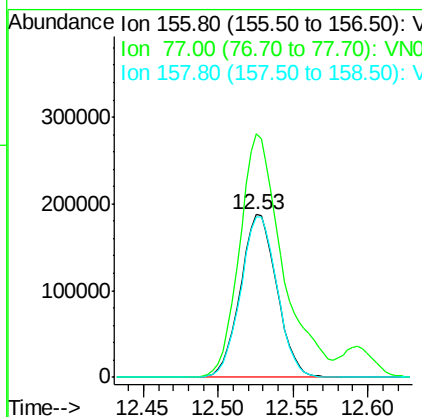
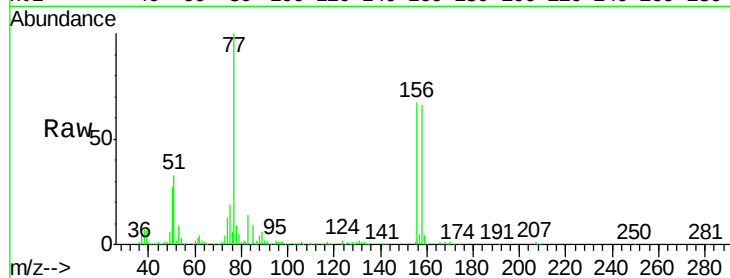
ClientSampleId :

VN0713WBSD02

Tot Ion:	156	Resp:	319180
Ion Ratio	Lower	Upper	
156	100		
77	176.2	90.2	270.6
158	98.5	49.1	147.3

Manual Integrations
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7/16/2018 11:02:50 AM



#78

n-propylbenzene

Concen: 19.82 ug/l

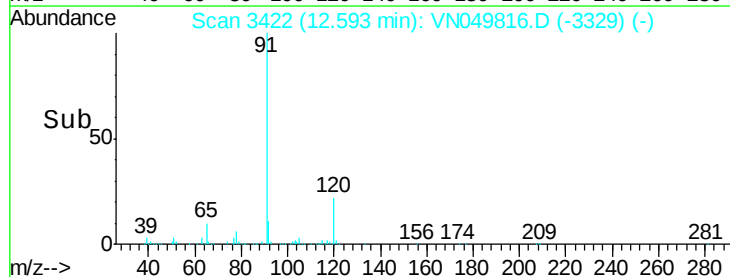
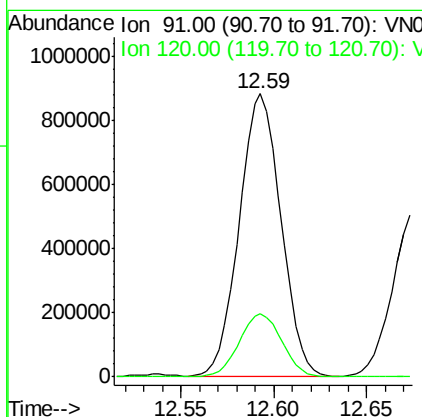
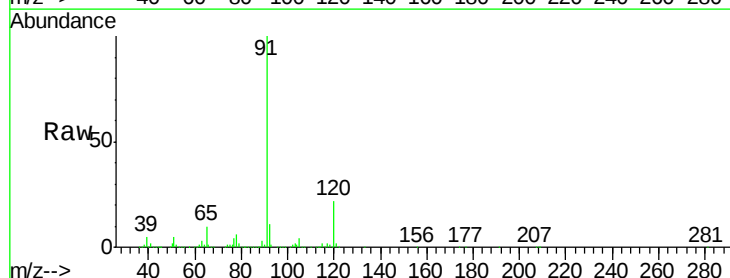
RT: 12.59 min Scan# 3422

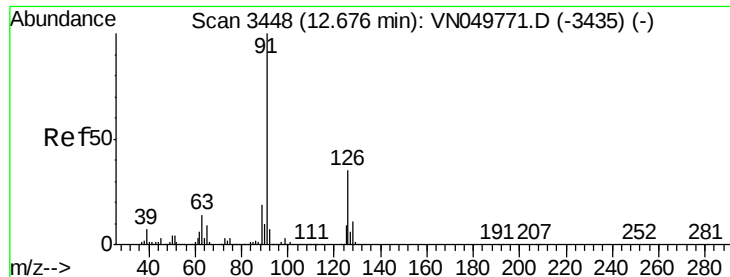
Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Tgt Ion:	91	Resp:	1375140
Ion Ratio	Lower	Upper	
91	100		
120	22.8	11.5	34.4





#79

2-Chlorotoluene

Concen: 20.11 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD02

Tot Ion: 91 Resp: 853974

Ion Ratio Lower Upper

91 100

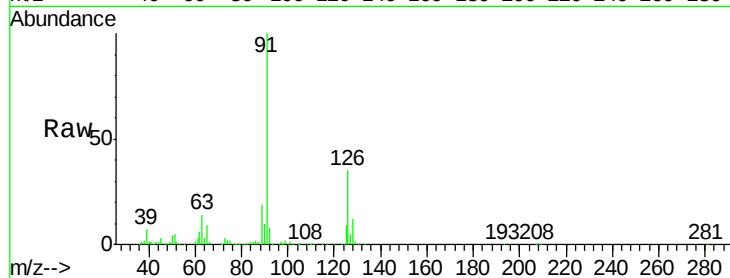
126 34.9 17.5 52.5

Manual Integrations

APPROVED

MMDadoda

7/16/2018 11:02:50 AM



Abundance Ion 91.00 (90.70 to 91.70): VN049771.D (-3435) (-)

Ion 125.90 (125.60 to 126.60): VN049771.D (-3435) (-)

800000

600000

400000

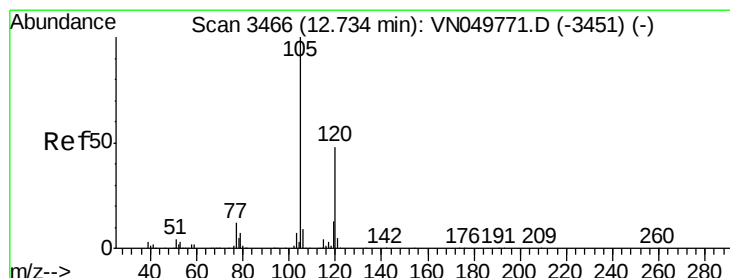
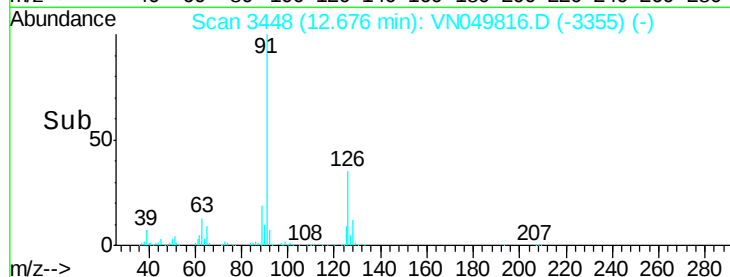
200000

0

12.60 12.65 12.70

12.68

Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.15 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN049816.D

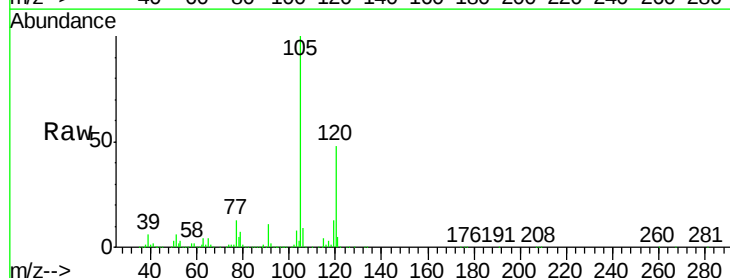
Acq: 14 Jul 2018 00:21

Tgt Ion: 105 Resp: 985314

Ion Ratio Lower Upper

105 100

120 48.6 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN049771.D (-3451) (-)

Ion 120.00 (119.70 to 120.70): VN049771.D (-3451) (-)

600000

400000

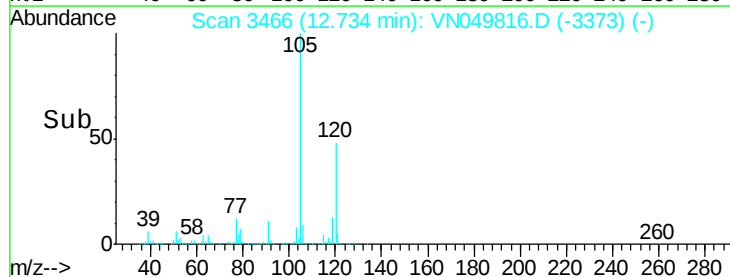
200000

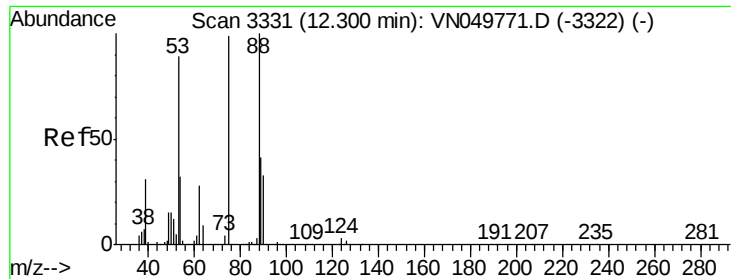
0

12.70 12.75 12.80

12.73

Time-->





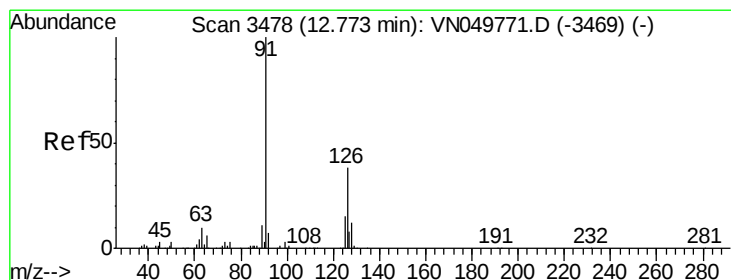
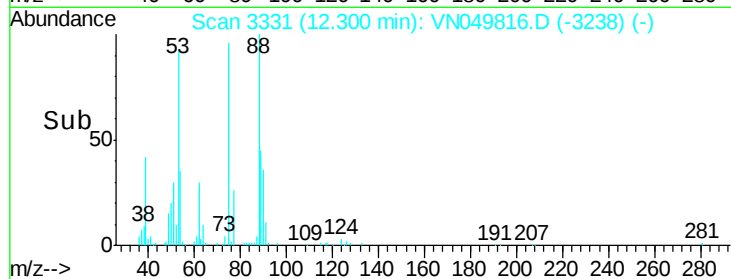
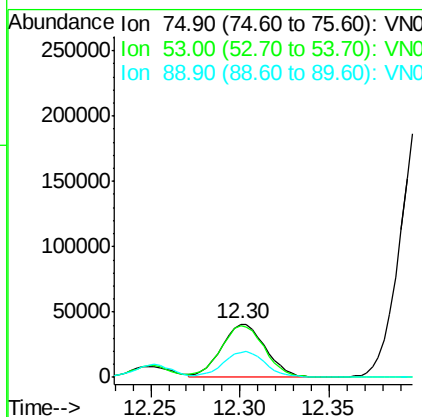
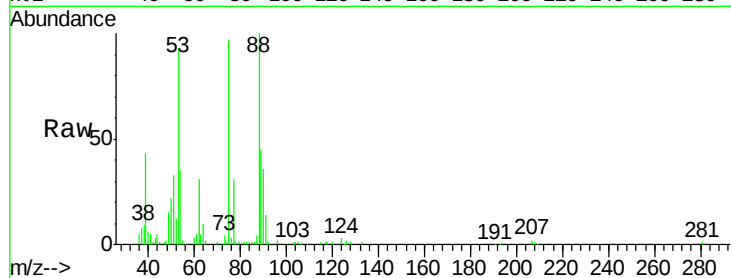
#81
trans-1,4-Dichloro-2-butene
Concen: 17.29 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
75	100		
53	97.1	73.9	110.9
89	46.0	35.9	53.9

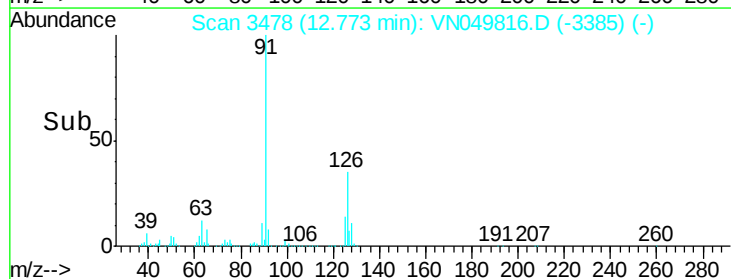
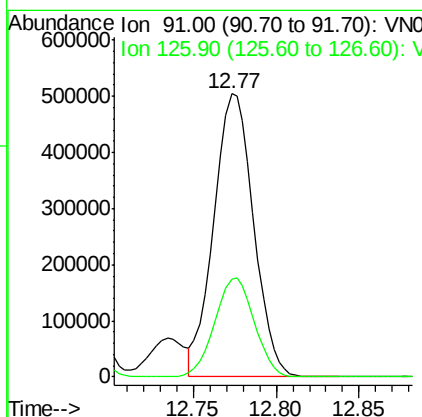
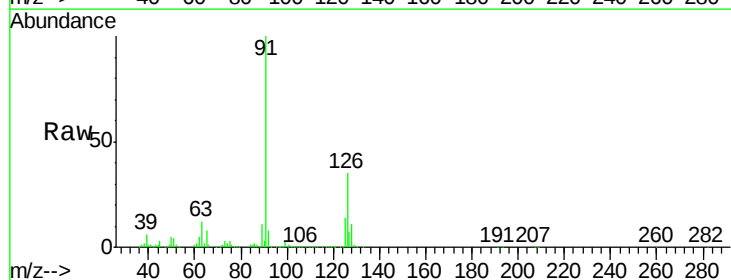
Manual Integrations
APPROVED

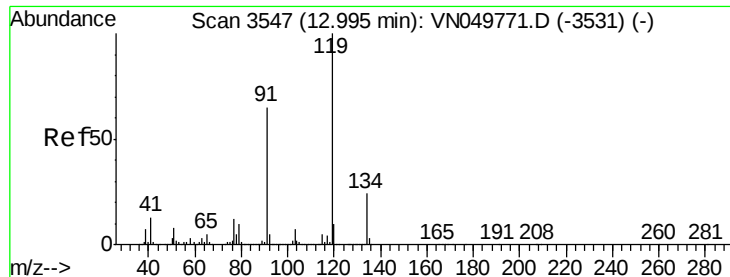
MMDadoda
7/16/2018 11:02:50 AM



#82
4-Chlorotoluene
Concen: 19.97 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.9	17.2	51.6





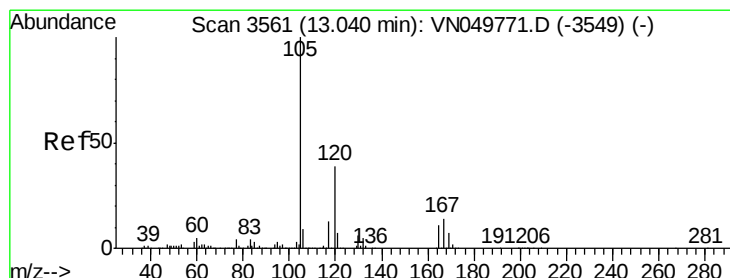
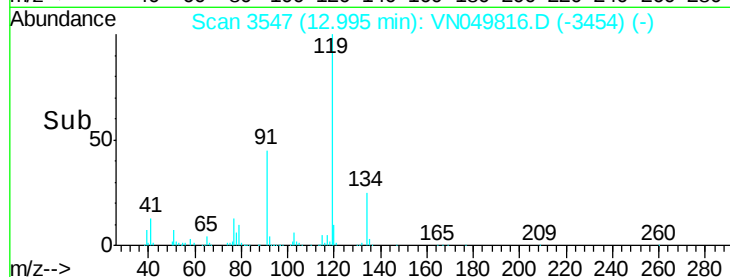
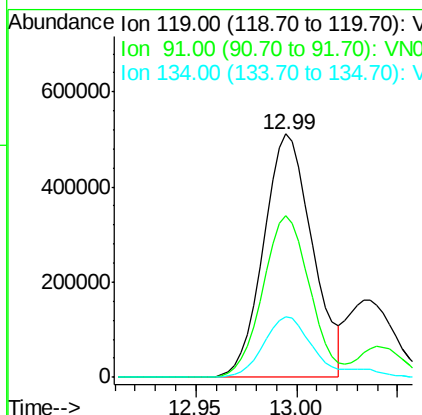
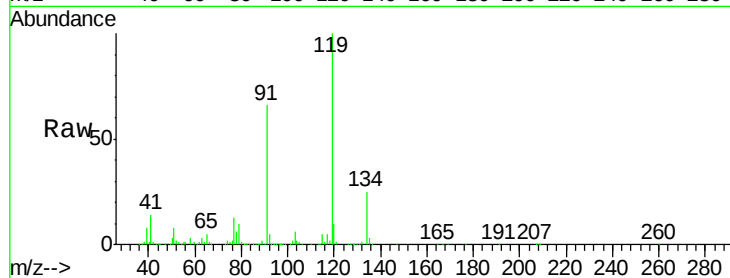
#83
tert-Butylbenzene
Concen: 19.68 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
119	100		
91	64.1	32.0	96.2
134	24.3	12.8	38.4

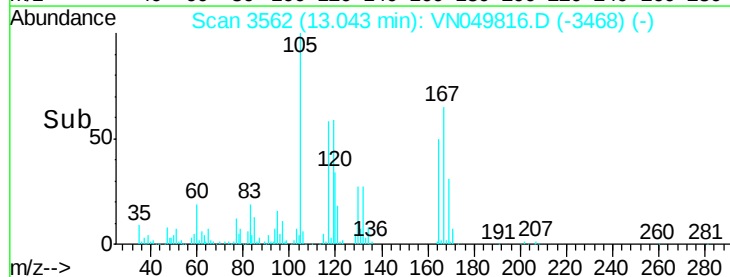
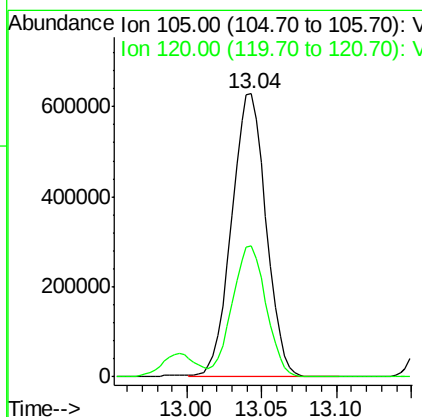
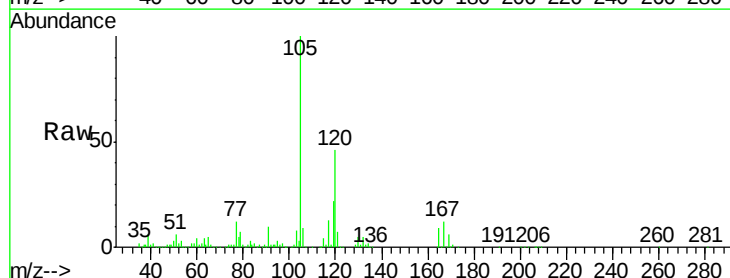
Manual Integrations
APPROVED

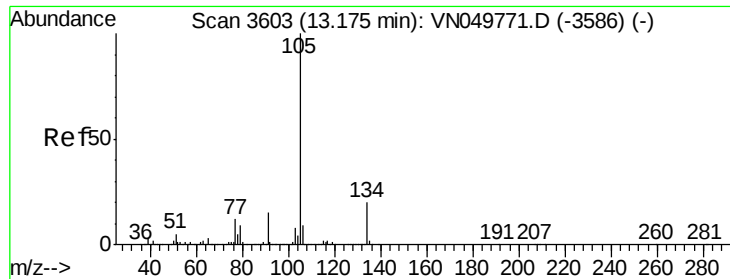
MMDadoda
7/16/2018 11:02:50 AM



#84
1,2,4-Trimethylbenzene
Concen: 20.52 ug/l
RT: 13.04 min Scan# 3562
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.7	22.7	68.1





#85

sec-Butylbenzene

Concen: 20.30 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

ClientSampleId :

VN0713WBSD02

Tot Ion:105 Resp: 1163950

Ion Ratio Lower Upper

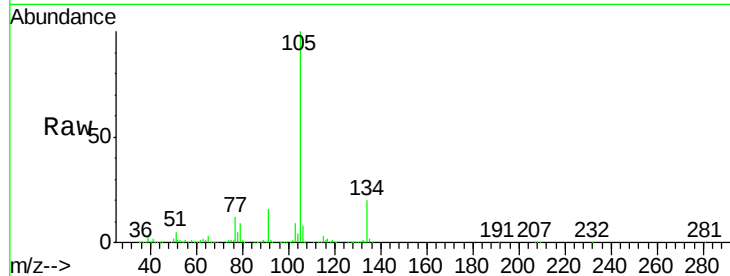
105 100

134 19.9 10.1 30.1

Manual Integrations
APPROVED

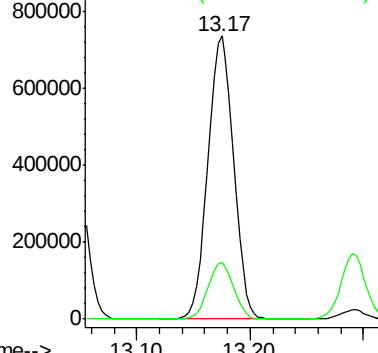
MMDadoda

7/16/2018 11:02:50 AM

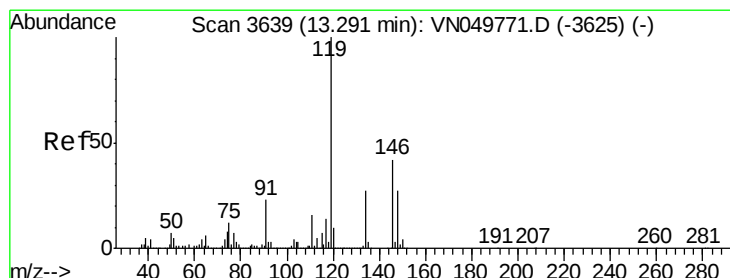
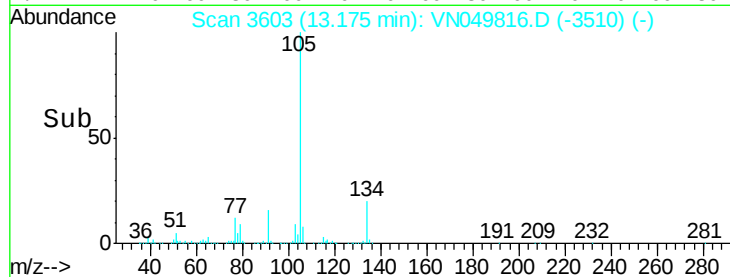


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#86

p-Isopropyltoluene

Concen: 20.14 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

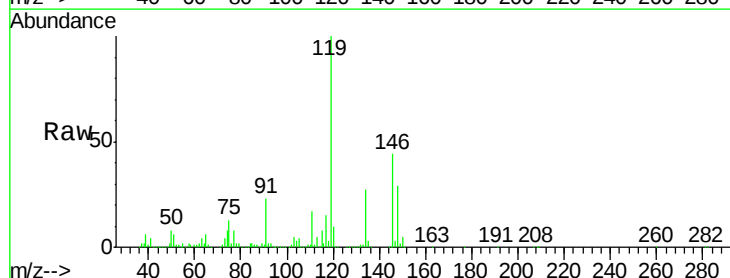
Tgt Ion:119 Resp: 976944

Ion Ratio Lower Upper

119 100

134 26.5 13.3 39.9

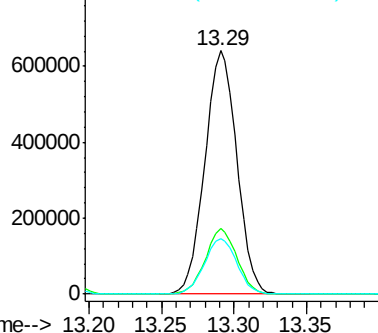
91 23.1 11.4 34.1



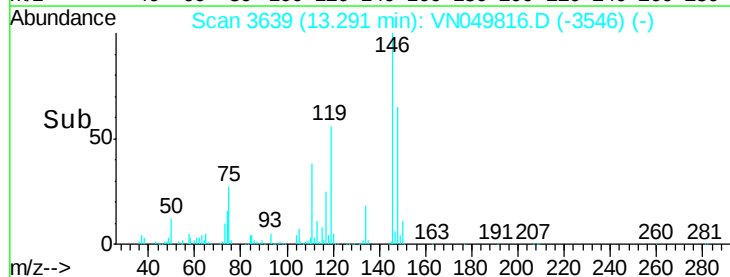
Abundance Ion 119.00 (118.70 to 119.70): V

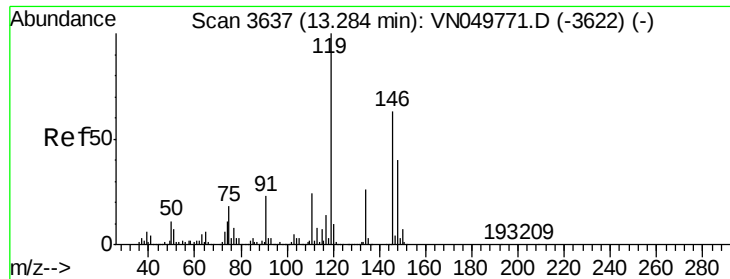
Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time-->





#87

1,3-Dichlorobenzene

Concen: 19.43 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. 0.00 min

Lab File: VN049816.D

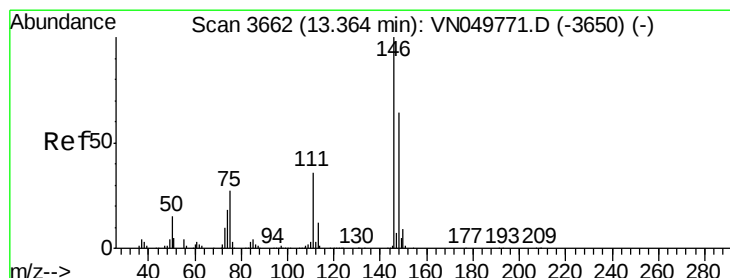
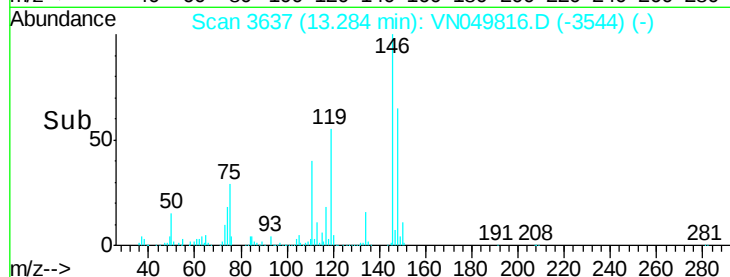
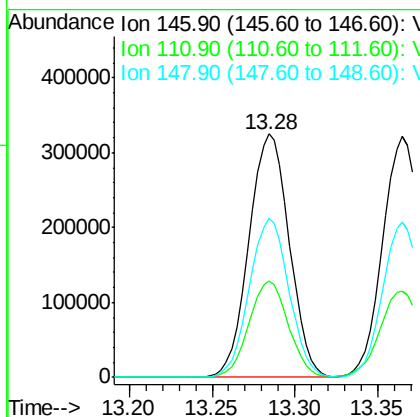
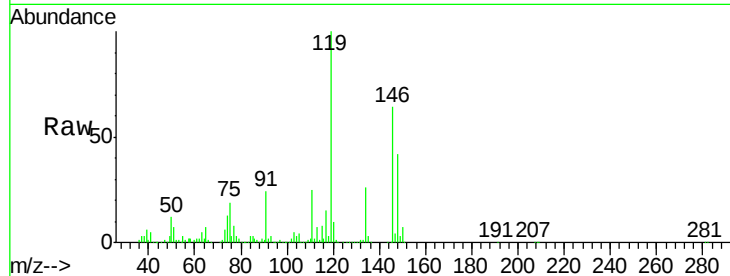
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.0	57.0
148	64.2	32.5	97.5

Manual Integrations
APPROVED

MMDadoda
7/16/2018 11:02:50 AM



#88

1,4-Dichlorobenzene

Concen: 19.40 ug/l

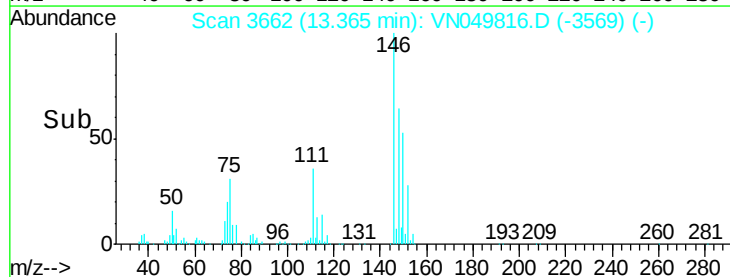
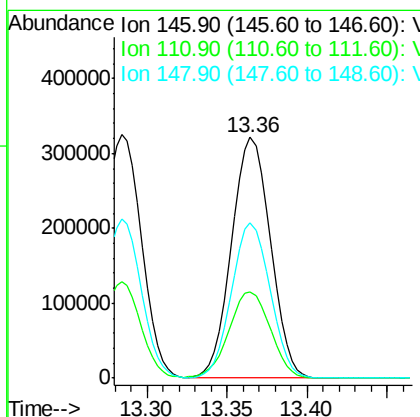
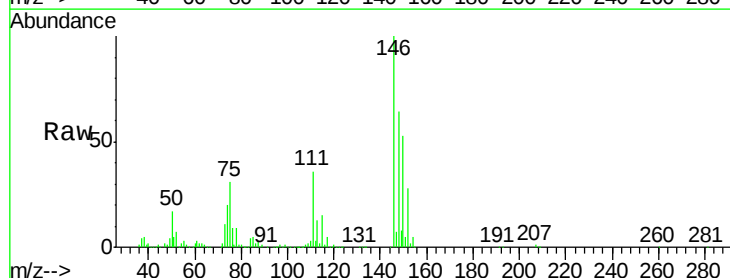
RT: 13.36 min Scan# 3662

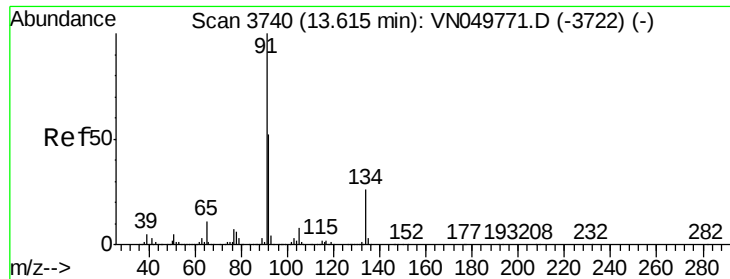
Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.2	18.9	56.5
148	64.0	32.1	96.3





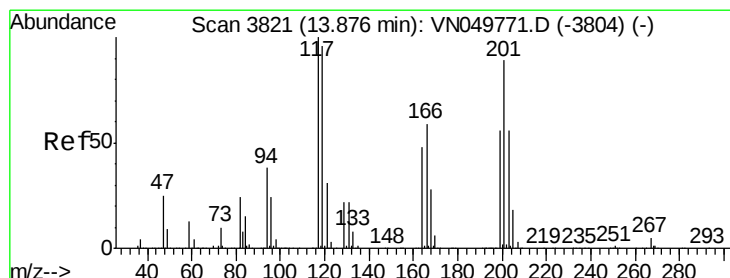
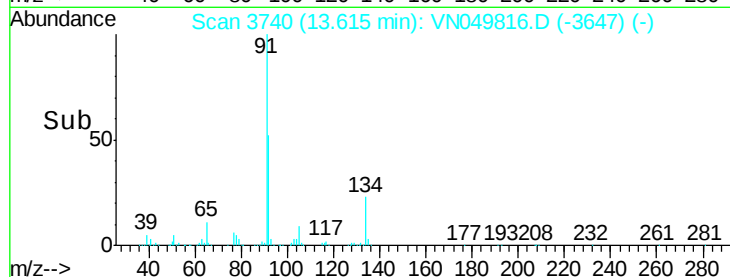
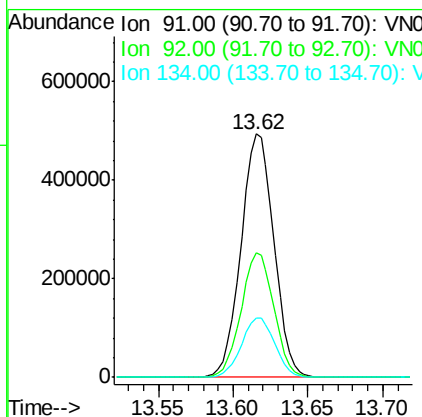
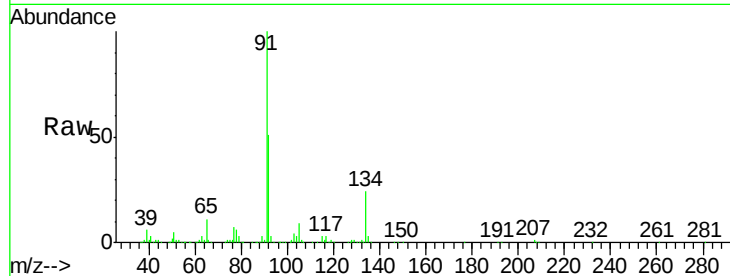
#89
n-Butylbenzene
Concen: 18.83 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	51.1	25.8	77.3
134	24.8	13.0	38.9

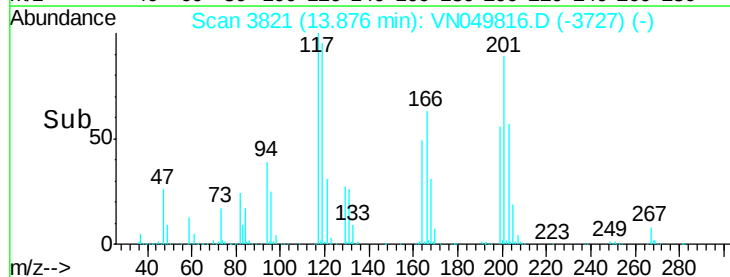
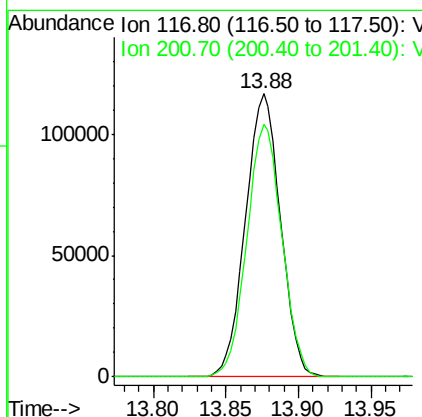
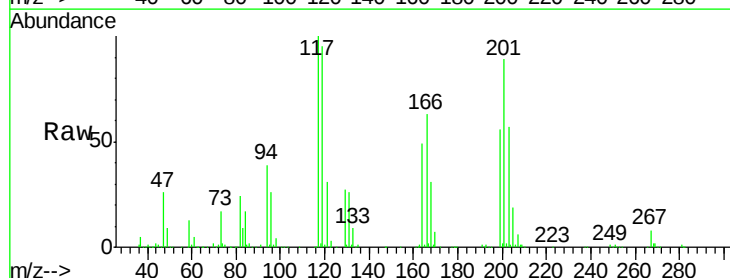
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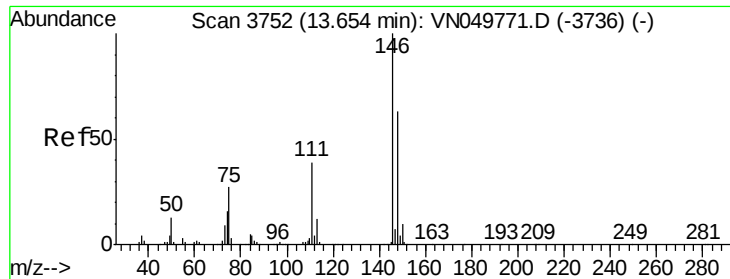
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#90
Hexachloroethane
Concen: 20.47 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Lower	Upper
117	100		
201	88.8	45.3	135.8





#91

1,2-Dichlorobenzene

Concen: 20.08 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

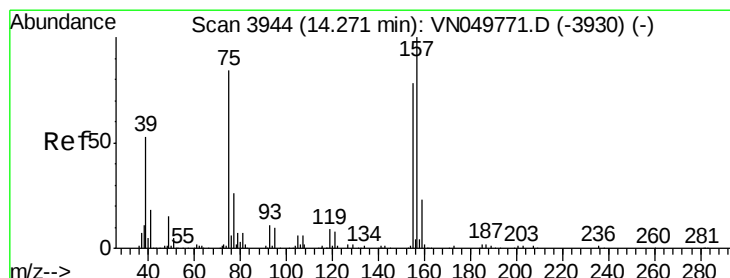
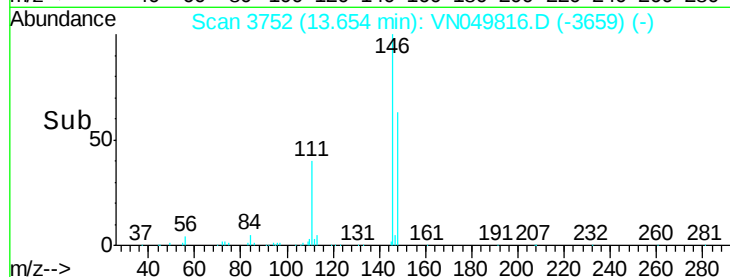
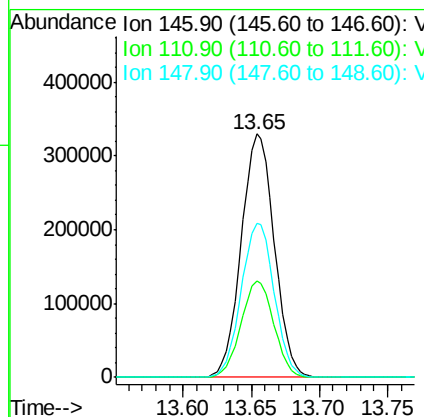
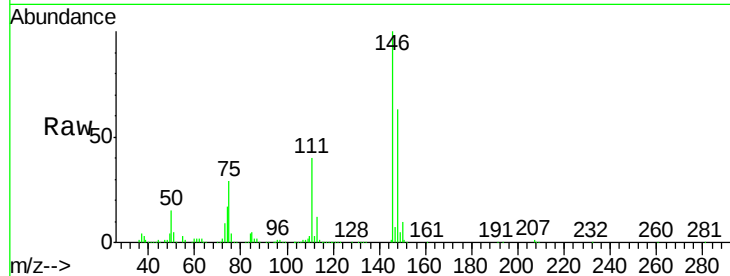
ClientSampleId :

VN0713WBSD02

Tot Ion:	146	Resp:	554531
Ion Ratio		Lower	Upper
146	100		
111	39.2	19.7	59.1
148	63.2	32.0	96.2

Manual Integrations
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#92

1,2-Dibromo-3-Chloropropane

Concen: 19.35 ug/l

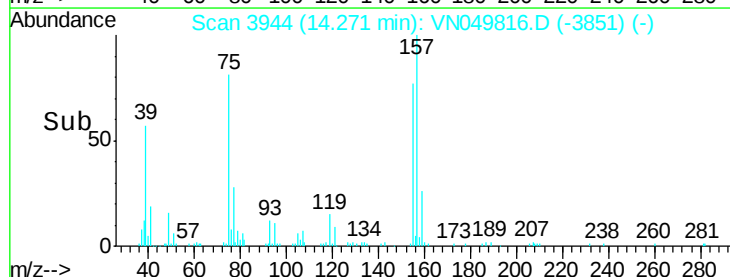
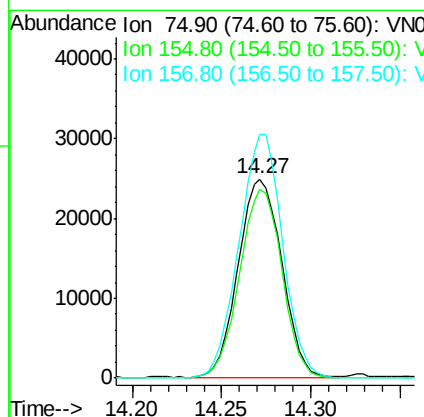
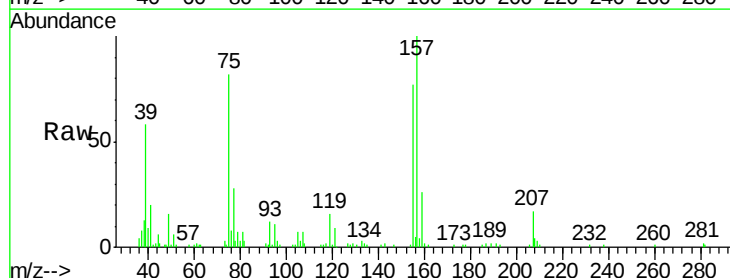
RT: 14.27 min Scan# 3944

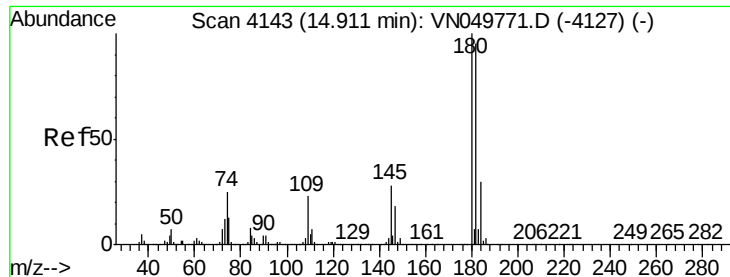
Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Tgt Ion:	75	Resp:	42733
Ion Ratio		Lower	Upper
75	100		
155	91.9	45.7	137.1
157	121.8	56.9	170.7





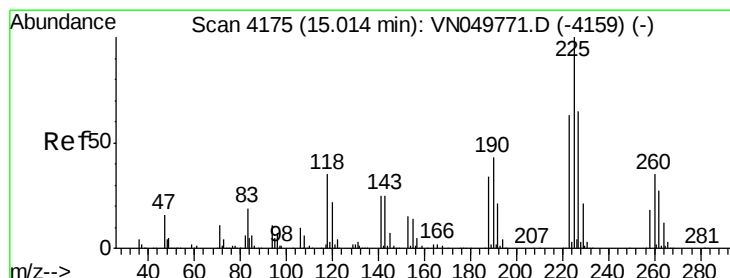
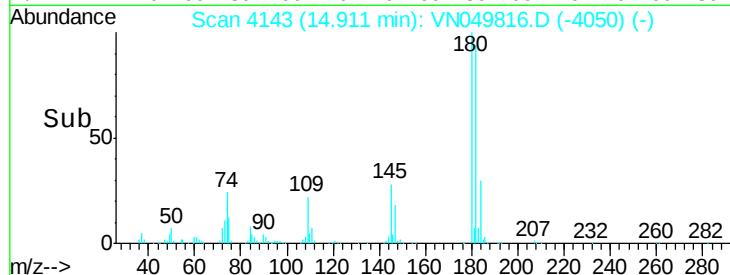
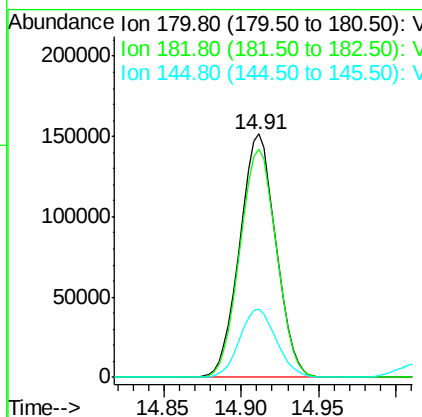
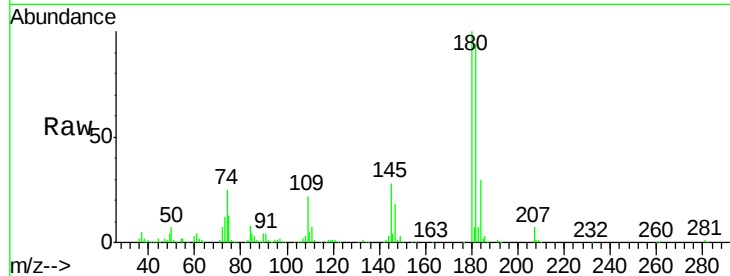
#93
1,2,4-Trichlorobenzene
Concen: 18.26 ug/l
RT: 14.91 min Scan# 4143
Delta R.T. 0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Instrument :
MSVOA_N
ClientSampleId :
VN0713WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
180	100	247531		
182	94.7	47.3	141.9	
145	28.2	14.4	43.0	

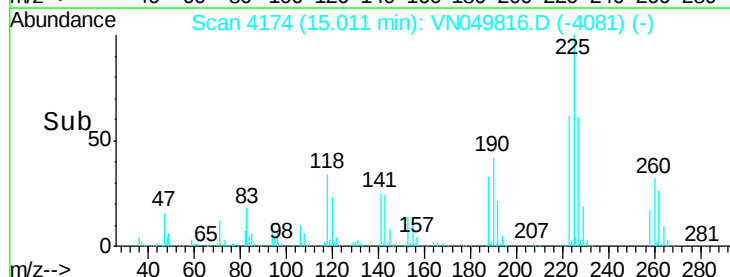
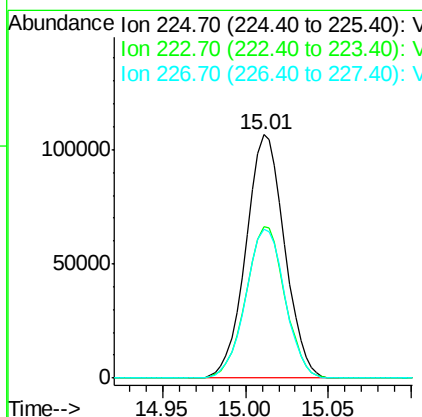
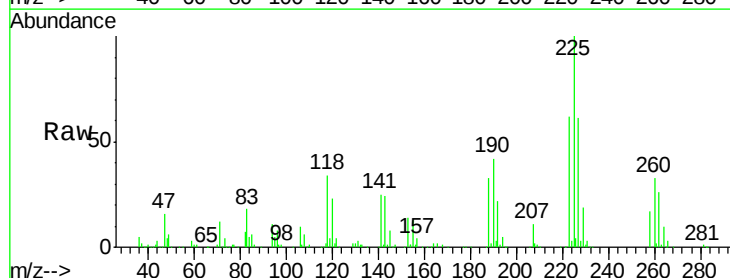
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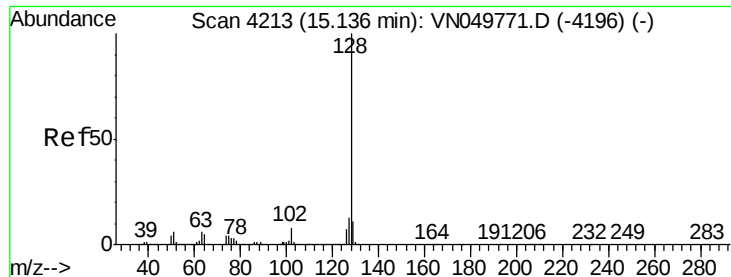
MMDadoda
7/16/2018 11:02:50 AM



#94
Hexachlorobutadiene
Concen: 19.74 ug/l
RT: 15.01 min Scan# 4174
Delta R.T. -0.00 min
Lab File: VN049816.D
Acq: 14 Jul 2018 00:21

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	172359		
223	62.6	30.9	92.7	
227	62.1	31.8	95.4	





#95

Naphthalene

Concen: 17.55 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Instrument :

MSVOA_N

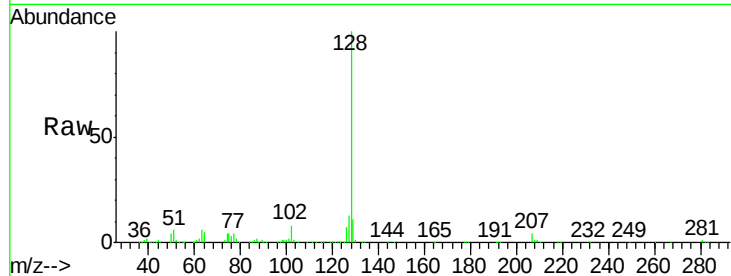
ClientSampleId :

VN0713WBSD02

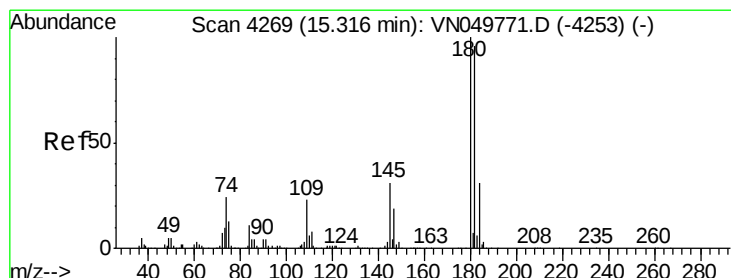
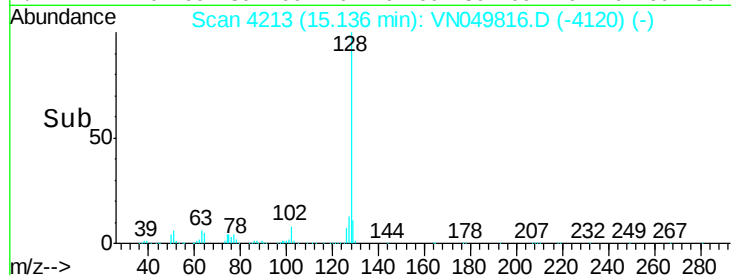
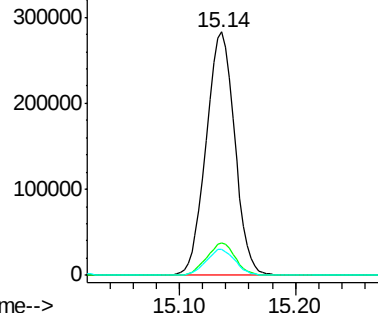
Tot Ion:	128	Resp:	481573
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.4	15.6
129	10.8	8.6	13.0

Manual Integrations
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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



#96

1,2,3-Trichlorobenzene

Concen: 19.15 ug/l

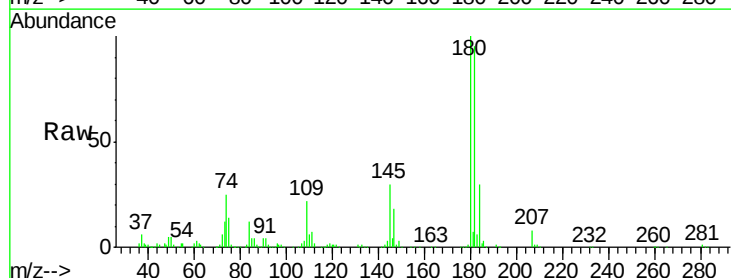
RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN049816.D

Acq: 14 Jul 2018 00:21

Tgt Ion:	180	Resp:	256448
Ion Ratio	Lower	Upper	
180	100		
182	95.6	47.4	142.2
145	30.8	15.2	45.6



Abundance Ion 179.80 (179.50 to 180.50): V
Ion 181.80 (181.50 to 182.50): V
Ion 144.90 (144.60 to 145.60): V

