

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091418\
 Data File : VN051201.D
 Acq On : 14 Sep 2018 20:31
 Operator : MD\SY
 Sample : VN0914WBS03
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 32 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBS03

Manual Integrations
 APPROVED

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 9/17/2018 1:26:20 PM

Quant Time: Sep 15 01:16:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	556737	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	789028	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	686623	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	310788	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	305343	49.28	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.56%	
35) Dibromofluoromethane	7.59	113	306799	51.75	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.50%	
50) Toluene-d8	10.09	98	1082205	48.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.20%	
62) 4-Bromofluorobenzene	12.40	95	329904	44.33	ug/l	0.00
Spiked Amount	50.000		Recovery	=	88.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	87245	16.25	ug/l	100
3) Chloromethane	2.06	50	116716	16.47	ug/l	99
4) Vinyl Chloride	2.18	62	123615	16.77	ug/l	97
5) Bromomethane	2.57	94	73952	17.14	ug/l	95
6) Chloroethane	2.71	64	74426	16.36	ug/l	99
7) Trichlorofluoromethane	3.02	101	180006	18.43	ug/l	99
8) Diethyl Ether	3.41	74	61218	17.05	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.76	101	112554	17.88	ug/l	98
10) Methyl Iodide	3.95	142	77705	17.34	ug/l	98
11) Tert butyl alcohol	4.79	59	31845	67.29	ug/l #	88
12) 1,1-Dichloroethene	3.74	96	102183	17.21	ug/l	99
13) Acrolein	3.61	56	25807	64.62	ug/l	95
14) Allyl chloride	4.33	41	150501	16.63	ug/l	99
15) Acrylonitrile	4.99	53	165328	78.84	ug/l	99
16) Acetone	3.82	43	108846	66.77	ug/l	99
17) Carbon Disulfide	4.05	76	283897	16.30	ug/l	99
18) Methyl Acetate	4.33	43	89386	18.02	ug/l	97
19) Methyl tert-butyl Ether	5.05	73	262104	16.70	ug/l	99
20) Methylene Chloride	4.55	84	121448	17.75	ug/l	99
21) trans-1,2-Dichloroethene	5.04	96	110718	17.19	ug/l	99
22) Diisopropyl ether	5.96	45	339164	18.88	ug/l	98
23) Vinyl Acetate	5.90	43	1007732	82.91	ug/l	99
24) 1,1-Dichloroethane	5.85	63	208845	18.33	ug/l	99
25) 2-Butanone	6.84	43	171281	70.31	ug/l	98
26) 2,2-Dichloropropane	6.83	77	151419	16.24	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	122690	17.36	ug/l	99
28) Bromochloromethane	7.20	49	95670	18.86	ug/l	99
29) Tetrahydrofuran	7.21	42	115238	75.76	ug/l	99
30) Chloroform	7.37	83	217819	19.22	ug/l	98
31) Cyclohexane	7.66	56	169374	16.52	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	183014	18.95	ug/l	100
36) 1,1-Dichloropropene	7.80	75	154144	17.79	ug/l	99
37) Ethyl Acetate	6.93	43	83380	16.62	ug/l	99
38) Carbon Tetrachloride	7.78	117	163250	19.15	ug/l	97

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Manual Integrations
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Quant Time: Sep 15 01:16:31 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	153729	16.08	ug/l	95
40) Benzene	8.04	78	481239	18.44	ug/l	99
41) Methacrylonitrile	7.18	41	42295	16.34	ug/l	93
42) 1,2-Dichloroethane	8.13	62	141982	18.66	ug/l	99
43) Isopropyl Acetate	8.17	43	153952	17.39	ug/l #	86
44) Trichloroethene	8.84	130	127373	17.84	ug/l	99
45) 1,2-Dichloropropane	9.12	63	128897	19.11	ug/l	98
46) Dibromomethane	9.21	93	73112	17.77	ug/l	100
47) Bromodichloromethane	9.40	83	158417	18.93	ug/l	98
48) Methyl methacrylate	9.20	41	69345	16.07	ug/l	99
49) 1,4-Dioxane	9.20	88	19579	289.41	ug/l	94
51) 4-Methyl-2-Pentanone	9.99	43	392427	80.16	ug/l	99
52) Toluene	10.16	92	288282	18.11	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	142031	16.96	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	172723	17.59	ug/l	100
55) 1,1,2-Trichloroethane	10.56	97	107079	18.52	ug/l	98
56) Ethyl methacrylate	10.43	69	107300	15.60	ug/l	98
57) 1,3-Dichloropropane	10.71	76	172785	18.02	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	226876	80.54	ug/l	99
59) 2-Hexanone	10.75	43	231698	69.79	ug/l	96
60) Dibromochloromethane	10.90	129	119605	18.35	ug/l	99
61) 1,2-Dibromoethane	11.01	107	97101	17.18	ug/l	100
64) Tetrachloroethene	10.63	164	115889	18.50	ug/l	98
65) Chlorobenzene	11.43	112	313629	18.12	ug/l	100
66) 1,1,1,2-Tetrachloroethane	11.51	131	122606	19.68	ug/l	99
67) Ethyl Benzene	11.51	91	496274	17.71	ug/l	100
68) m/p-Xylenes	11.62	106	396794	36.84	ug/l	99
69) o-Xylene	11.95	106	188946	18.12	ug/l	99
70) Styrene	11.96	104	292306	18.07	ug/l	99
71) Bromoform	12.13	173	76124	17.35	ug/l #	97
73) Isopropylbenzene	12.25	105	495314	19.00	ug/l	99
74) N-amyl acetate	12.07	43	94758	14.45	ug/l	98
75) 1,1,2,2-Tetrachloroethane	12.50	83	122256	19.47	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	100037m	19.87	ug/l	
77) Bromobenzene	12.53	156	129610	18.51	ug/l	97
78) n-propylbenzene	12.59	91	533443	18.62	ug/l	99
79) 2-Chlorotoluene	12.67	91	337624	18.86	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	405300	19.23	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	25070	15.32	ug/l	96
82) 4-Chlorotoluene	12.77	91	323245	18.19	ug/l	99
83) tert-Butylbenzene	12.99	119	346241	18.61	ug/l	98
84) 1,2,4-Trimethylbenzene	13.04	105	395571	19.09	ug/l	99
85) sec-Butylbenzene	13.17	105	451896	18.94	ug/l	100
86) p-Isopropyltoluene	13.29	119	381298	18.85	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	207620	17.48	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	198100	18.17	ug/l	99
89) n-Butylbenzene	13.62	91	258556	16.42	ug/l	98
90) Hexachloroethane	13.87	117	75422	20.11	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	203522	17.59	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	14408	16.63	ug/l	96

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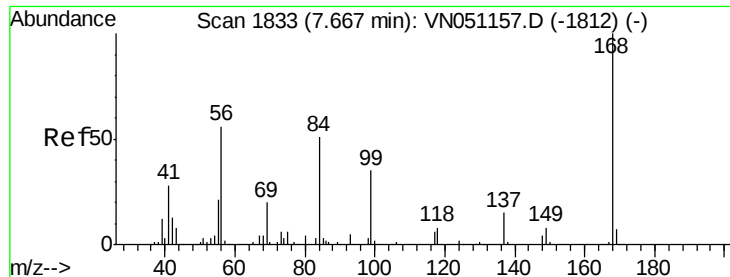
Manual Integrations
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Quant Title : SW846 8260
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Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	64007	14.51	ug/l	99
94) Hexachlorobutadiene	15.01	225	67696	18.98	ug/l	99
95) Naphthalene	15.13	128	109234	13.69	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	71053	15.46	ug/l	98

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



#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. -0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBS03

Tot Ion:168 Resp: 556737

Ion Ratio Lower Upper

168 100

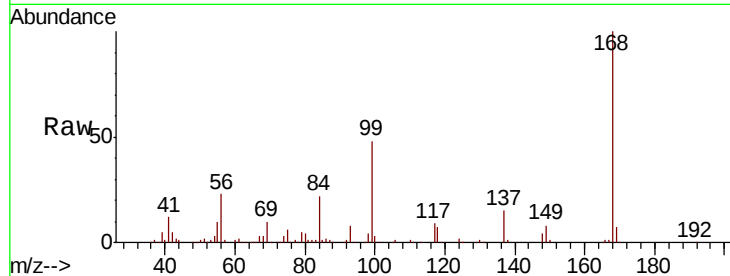
99 47.6 38.3 57.5

Manual Integrations

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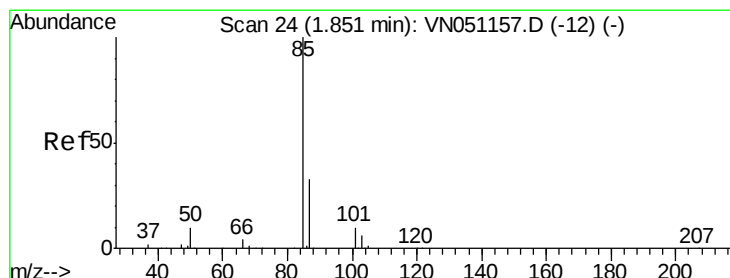
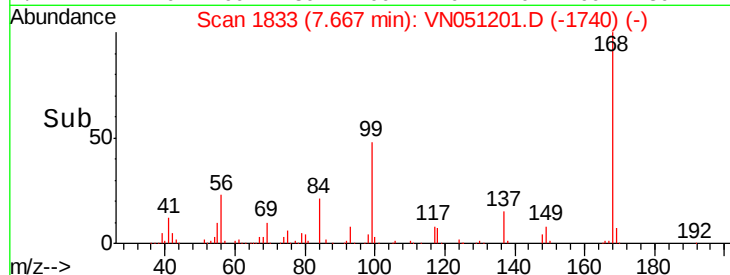
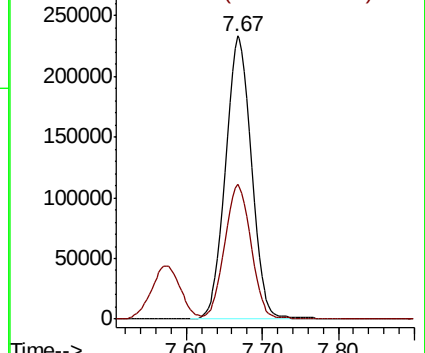
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 16.25 ug/l

RT: 1.85 min Scan# 24

Delta R.T. -0.00 min

Lab File: VN051201.D

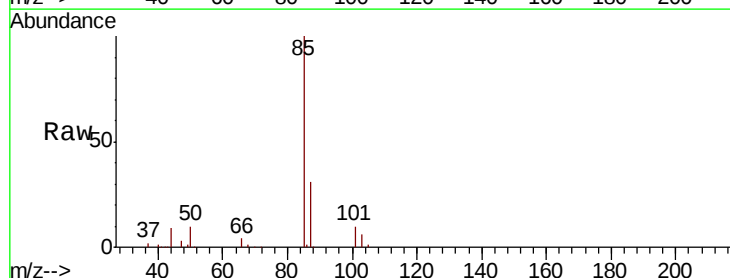
Acq: 14 Sep 2018 20:31

Tgt Ion: 85 Resp: 87245

Ion Ratio Lower Upper

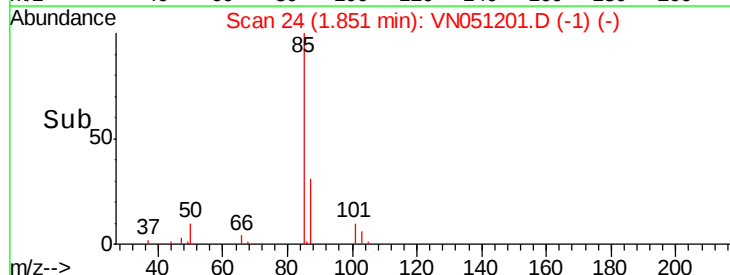
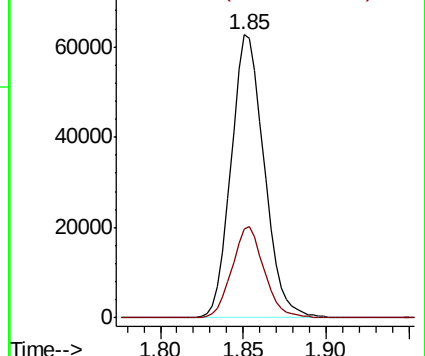
85 100

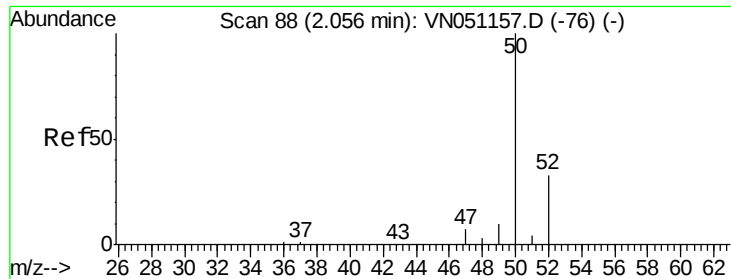
87 31.4 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 16.47 ug/l

RT: 2.06 min Scan# 89

Delta R.T. 0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBS03

Tot Ion: 50 Resp: 116716

Ion Ratio Lower Upper

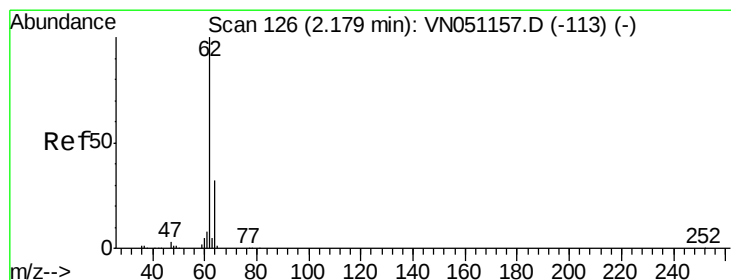
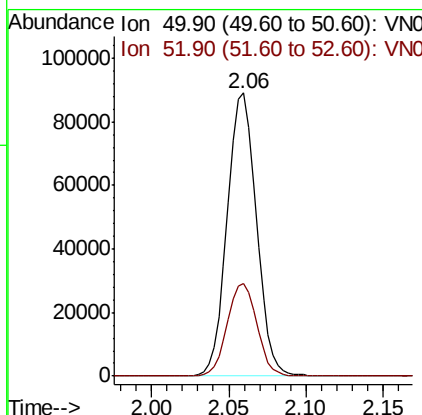
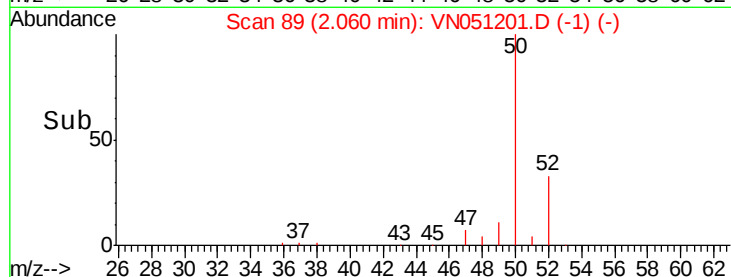
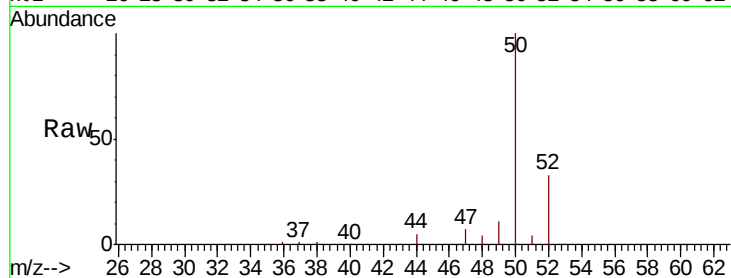
50 100

52 32.9 26.0 39.0

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#4

Vinyl Chloride

Concen: 16.77 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051201.D

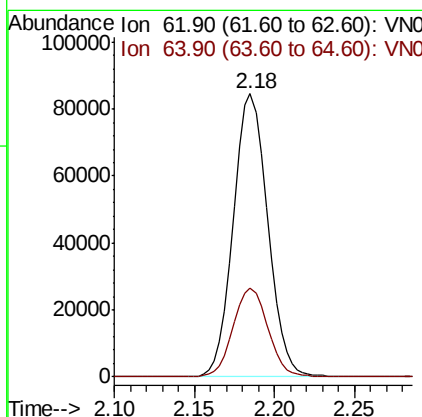
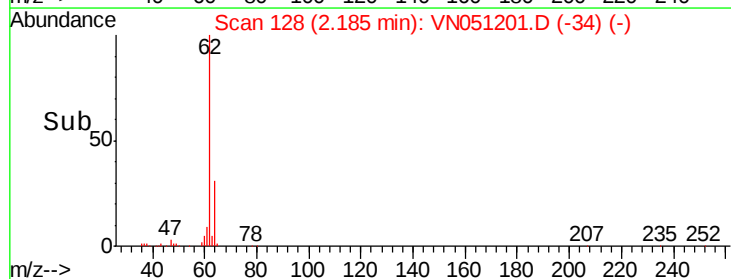
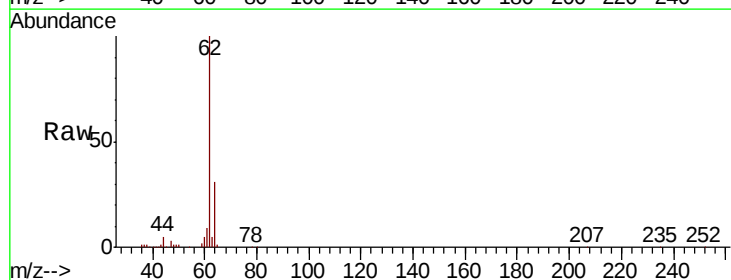
Acq: 14 Sep 2018 20:31

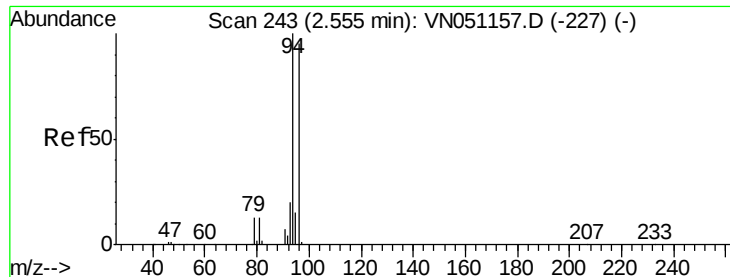
Tgt Ion: 62 Resp: 123615

Ion Ratio Lower Upper

62 100

64 31.2 26.2 39.4





#5

Bromomethane

Concen: 17.14 ug/l

RT: 2.57 min Scan# 247

Delta R.T. 0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBS03

Tot Ion: 94 Resp: 73952

Ion Ratio Lower Upper

94 100

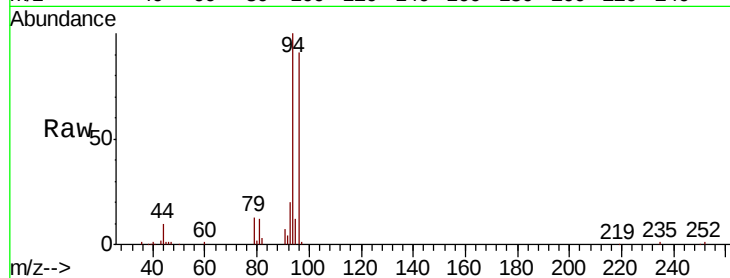
96 90.1 75.9 113.9

Manual Integrations

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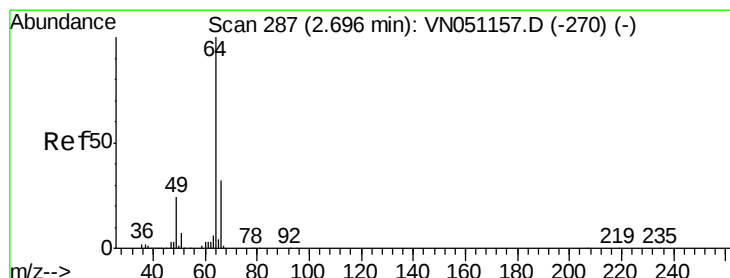
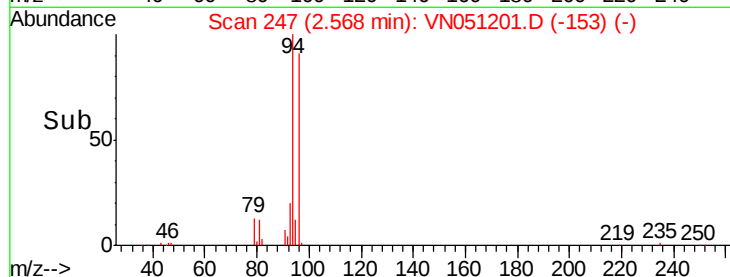
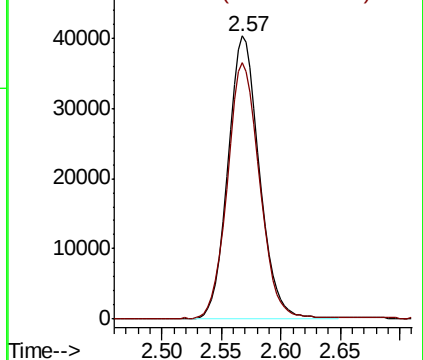
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Abundance Ion 93.90 (93.60 to 94.60): VN0

Ion 95.90 (95.60 to 96.60): VN0



#6

Chloroethane

Concen: 16.36 ug/l

RT: 2.71 min Scan# 290

Delta R.T. 0.01 min

Lab File: VN051201.D

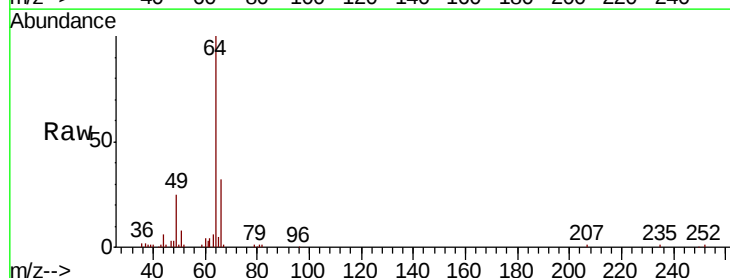
Acq: 14 Sep 2018 20:31

Tgt Ion: 64 Resp: 74426

Ion Ratio Lower Upper

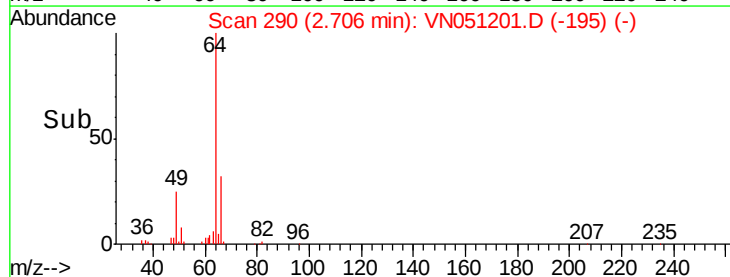
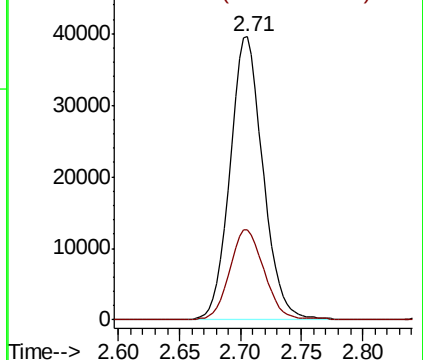
64 100

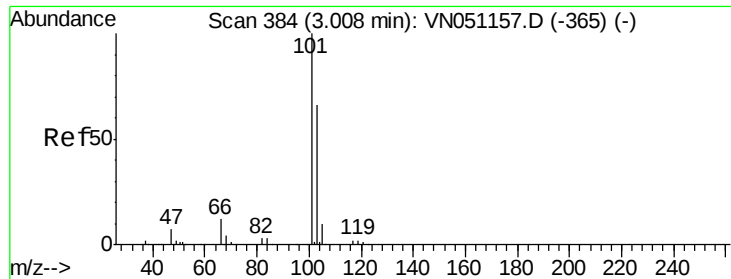
66 31.9 26.1 39.1



Abundance Ion 63.90 (63.60 to 64.60): VN0

Ion 65.90 (65.60 to 66.60): VN0





#7

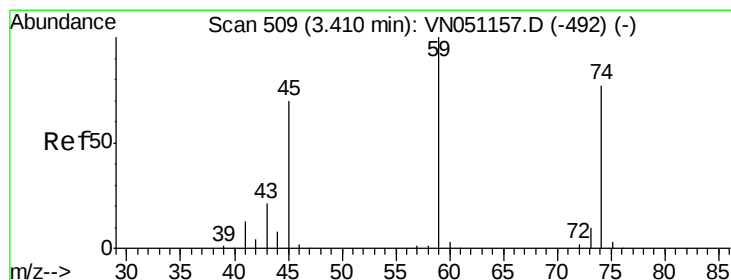
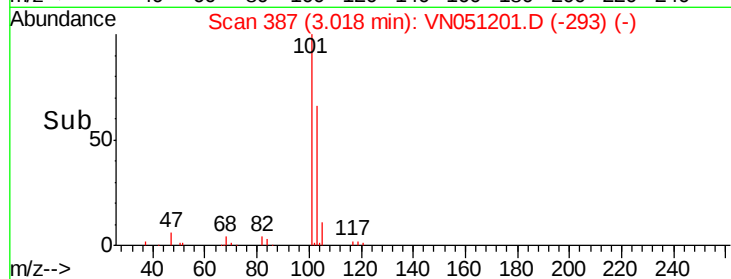
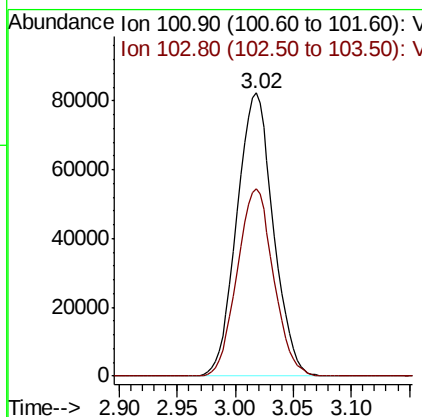
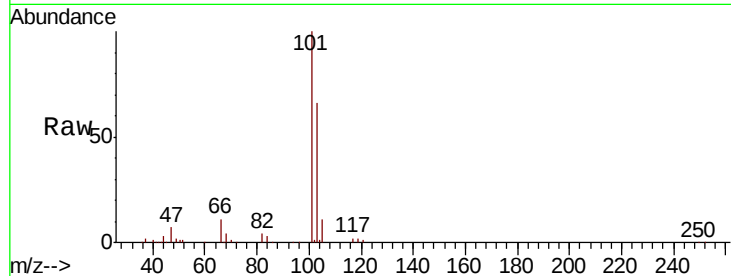
Trichlorofluoromethane
 Concen: 18.43 ug/l
 RT: 3.02 min Scan# 387
 Delta R.T. 0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBS03

Tot Ion	Ratio	Lower	Upper
101	100		
103	66.2	52.4	78.6

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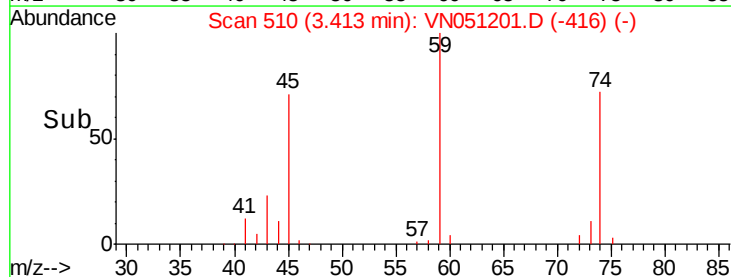
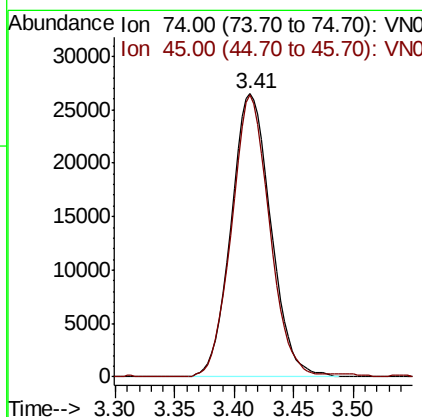
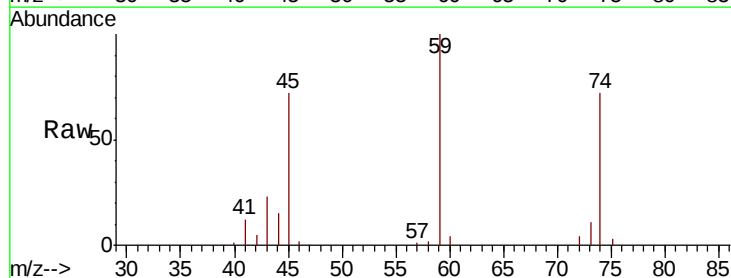
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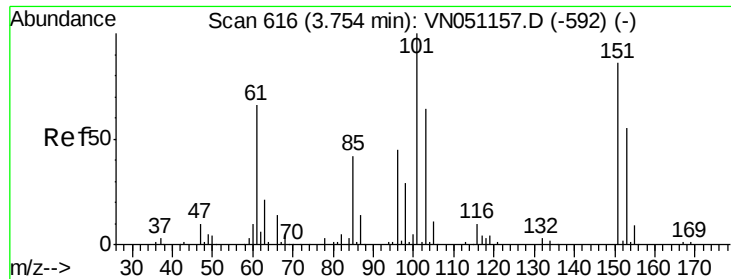


#8

Diethyl Ether
 Concen: 17.05 ug/l
 RT: 3.41 min Scan# 510
 Delta R.T. 0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.3	46.7	140.0





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.88 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

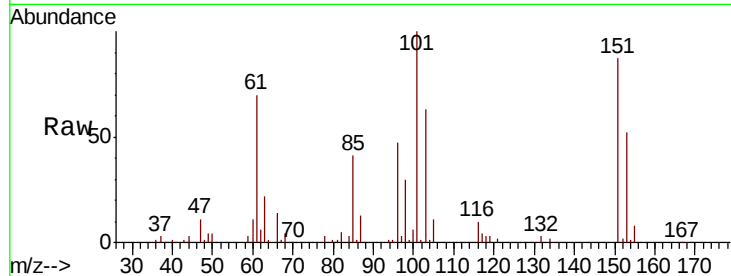
ClientSampleId :

VN0914WBS03

Tot Ion:	101	Resp:	112554
Ion Ratio	Lower	Upper	
101	100		
85	41.1	33.3	49.9
151	87.4	68.2	102.2

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MMDadoda
9/17/2018 1:26:20 PM

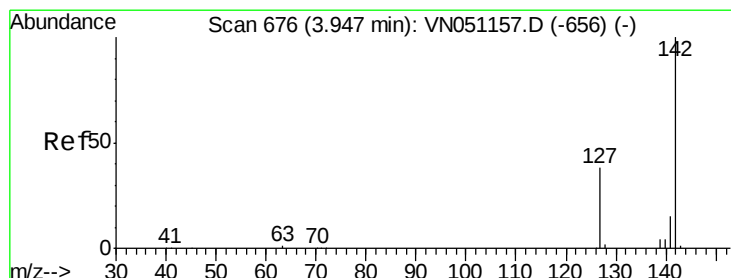
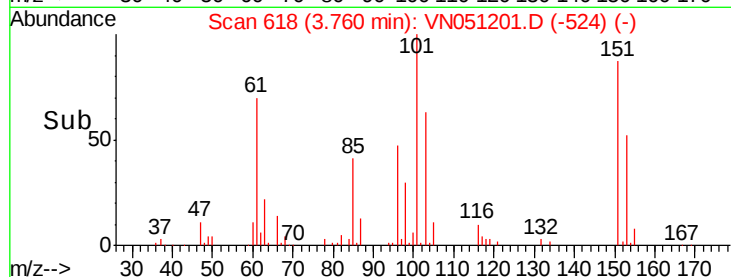
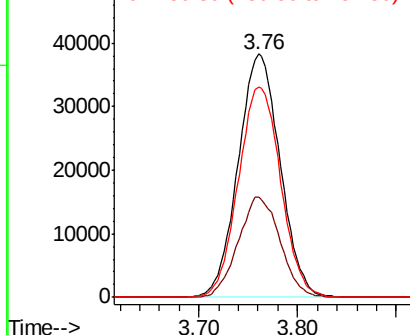


Abundance

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: 17.34 ug/l

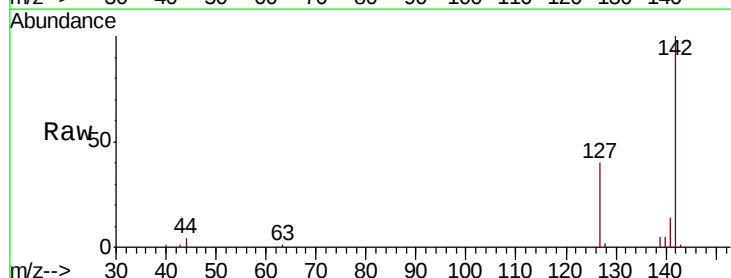
RT: 3.95 min Scan# 678

Delta R.T. 0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Tgt Ion:	142	Resp:	77705
Ion Ratio	Lower	Upper	
142	100		
127	40.5	31.0	46.4
141	13.8	11.3	16.9

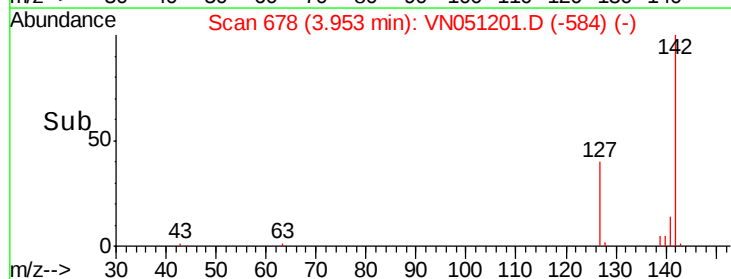
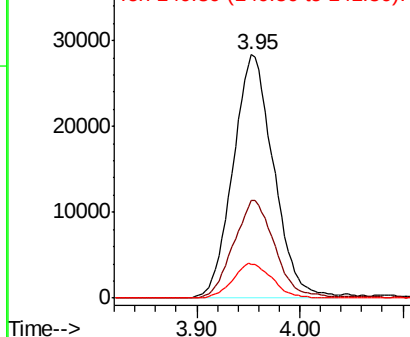


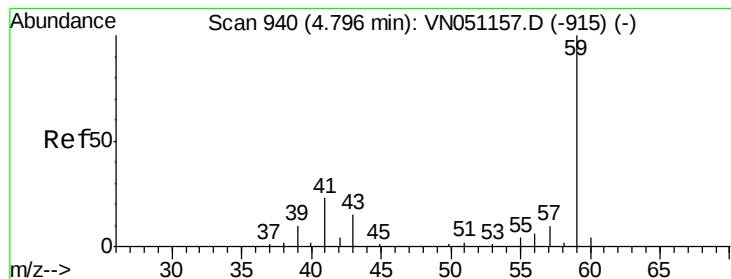
Abundance

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

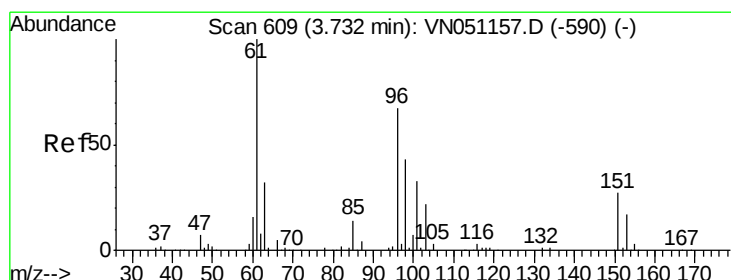
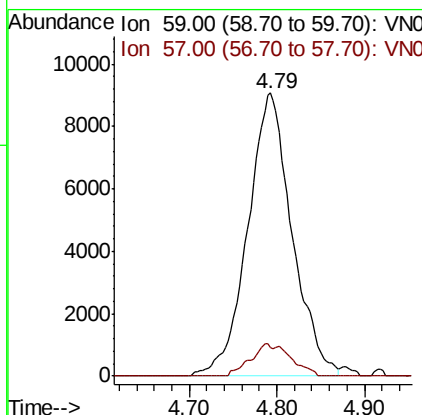
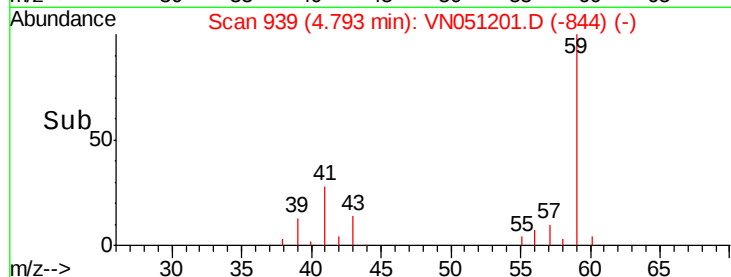
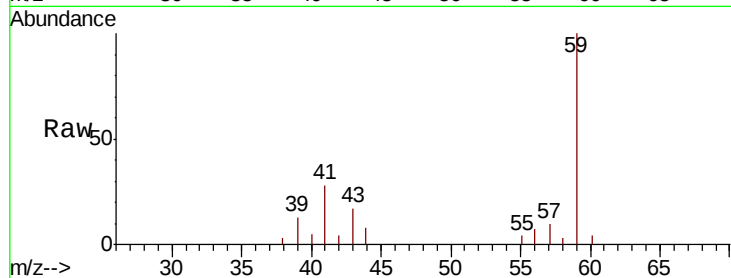
Tert butyl alcohol
Concen: 67.29 ug/l
RT: 4.79 min Scan# 939
Delta R.T. 0.01 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampled :
VN0914WBS03

Tot Ion	Ratio	Lower	Upper
59	100		
57	5.8	8.1	12.1#

Manual Integrations
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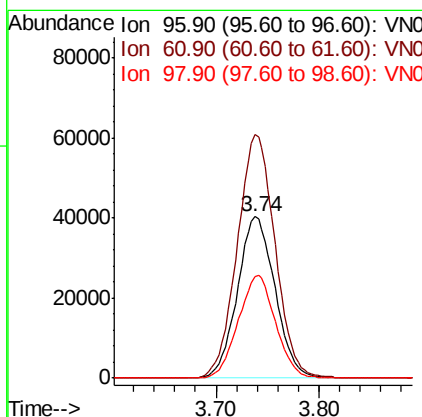
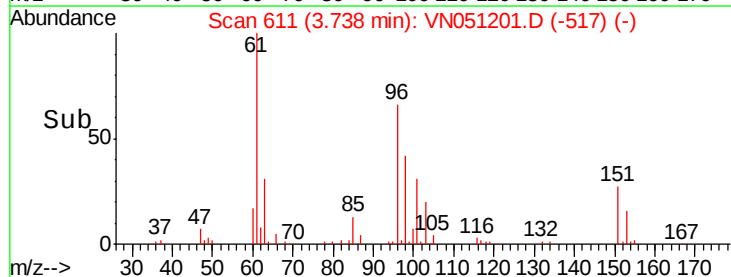
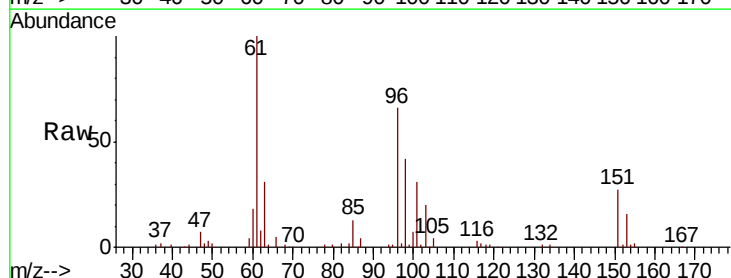
MMDadoda
9/17/2018 1:26:20 PM

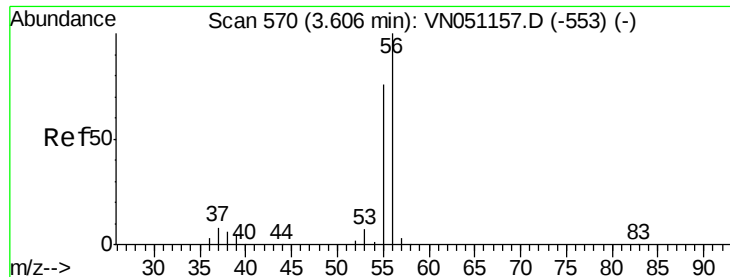


#12

1,1-Dichloroethene
Concen: 17.21 ug/l
RT: 3.74 min Scan# 611
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
96	100		
61	151.1	120.3	180.5
98	62.8	50.8	76.2





#13

Acrolein

Concen: 64.62 ug/l

RT: 3.61 min Scan# 572

Delta R.T. 0.01 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBS03

Tot Ion: 56 Resp: 25807

Ion Ratio Lower Upper

56 100

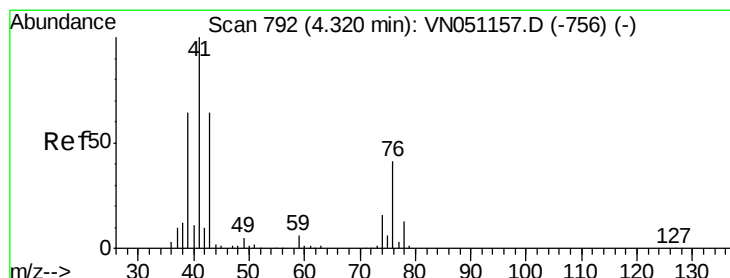
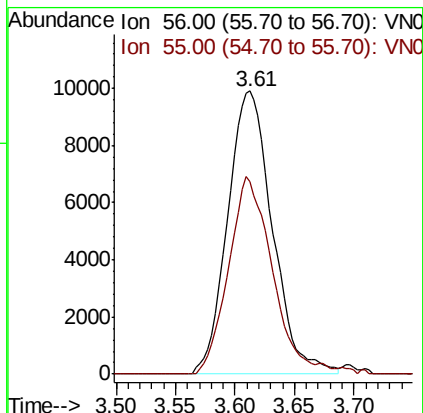
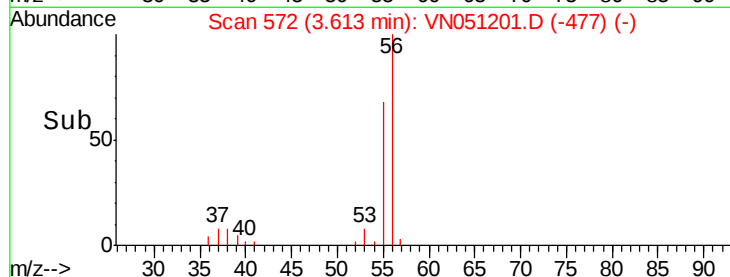
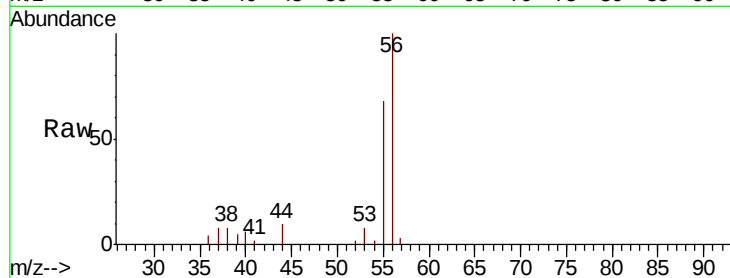
55 68.3 58.0 87.0

Manual Integrations

APPROVED

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9/17/2018 1:26:20 PM



#14

Allyl chloride

Concen: 16.63 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

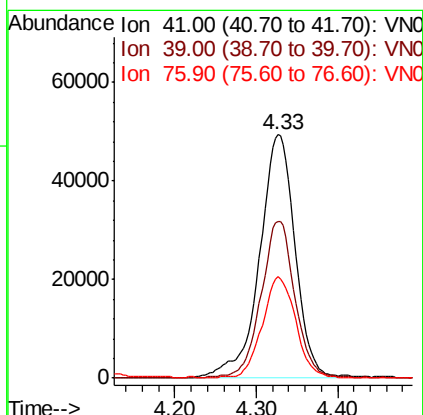
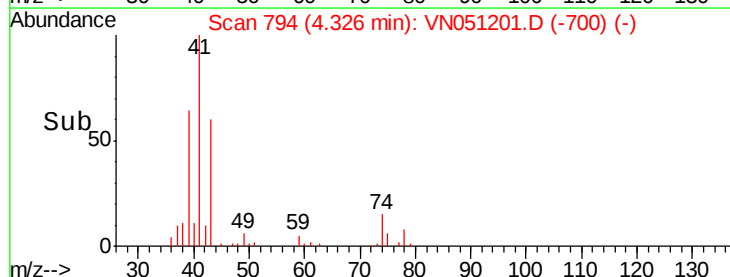
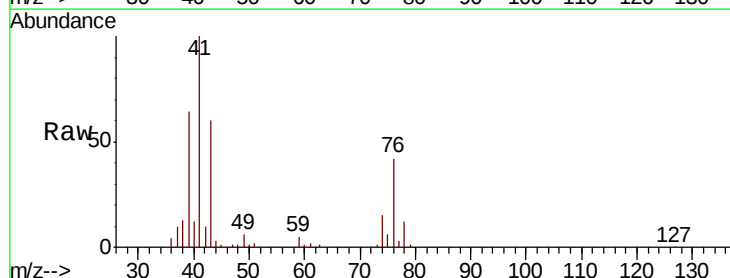
Tgt Ion: 41 Resp: 150501

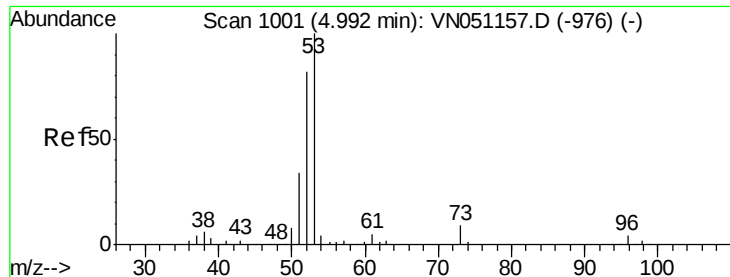
Ion Ratio Lower Upper

41 100

39 61.8 48.8 73.2

76 39.4 30.6 45.8





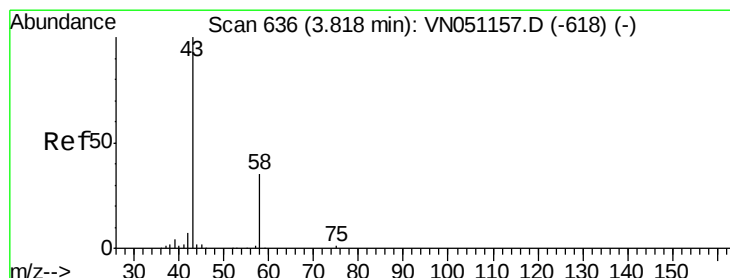
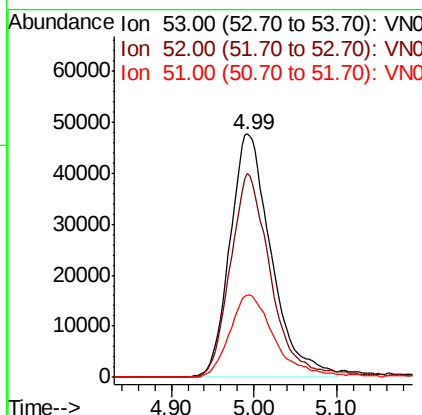
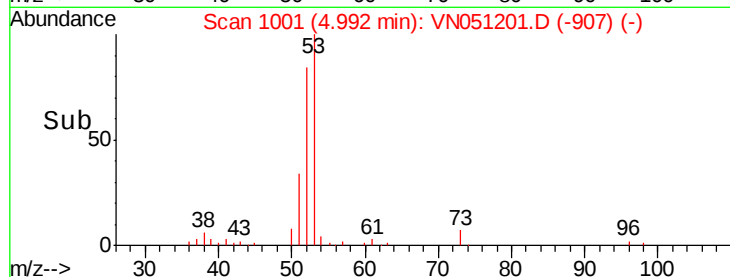
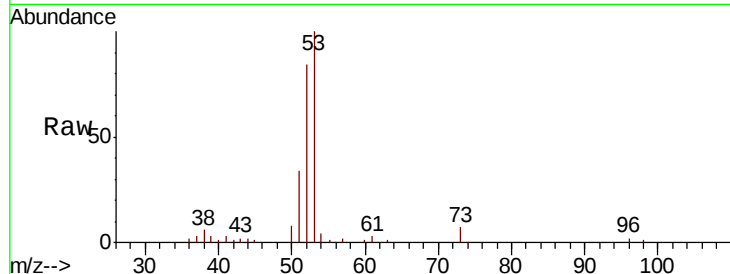
#15
 Acrylonitrile
 Concen: 78.84 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBS03

Tot Ion	Ratio	Lower	Upper
53	100		
52	81.1	65.3	97.9
51	36.6	28.2	42.2

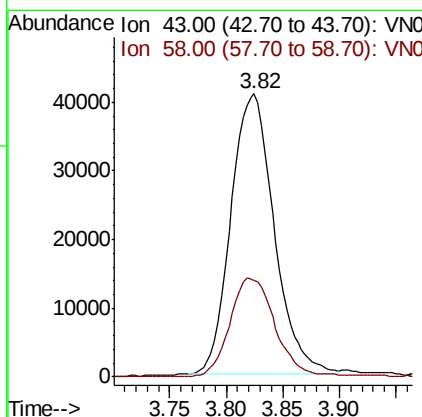
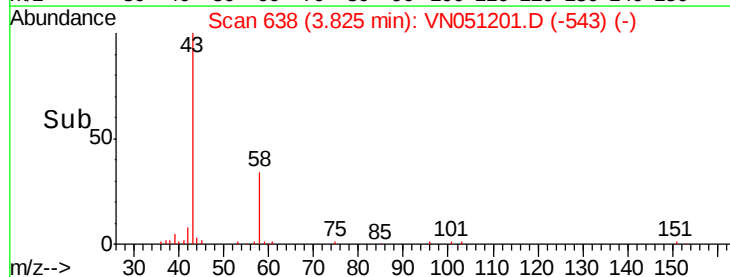
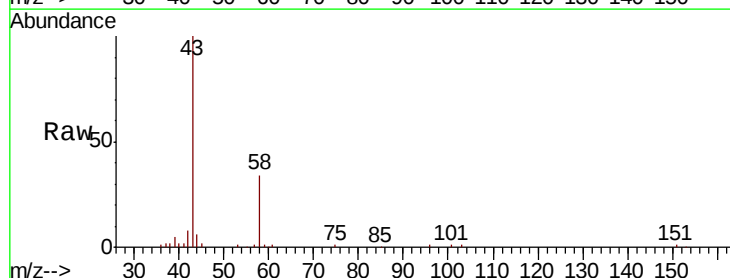
Manual Integrations
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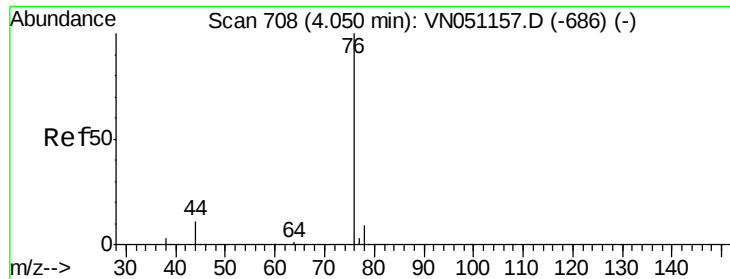
MMDadoda
 9/17/2018 1:26:20 PM



#16
 Acetone
 Concen: 66.77 ug/l
 RT: 3.82 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.4	27.8	41.6





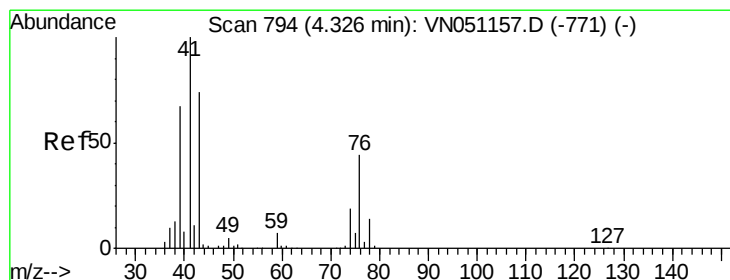
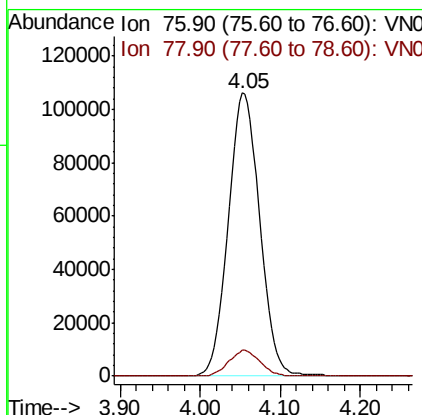
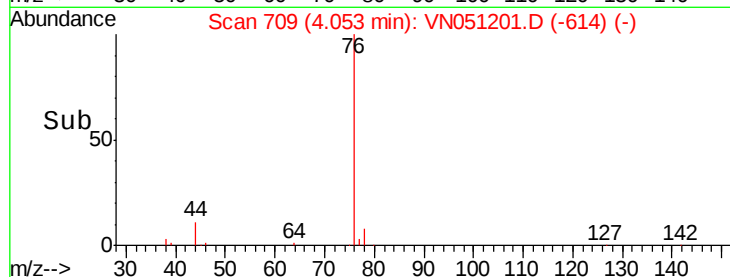
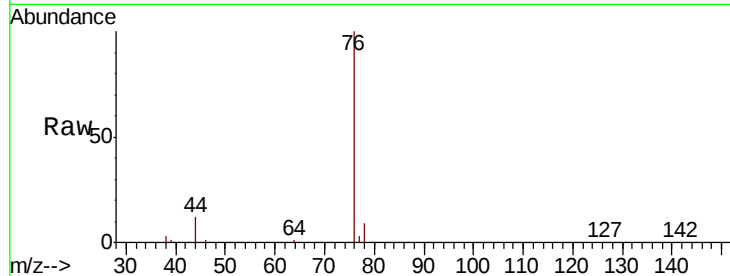
#17
Carbon Disulfide
Concen: 16.30 ug/l
RT: 4.05 min Scan# 709
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.0	7.0	10.6

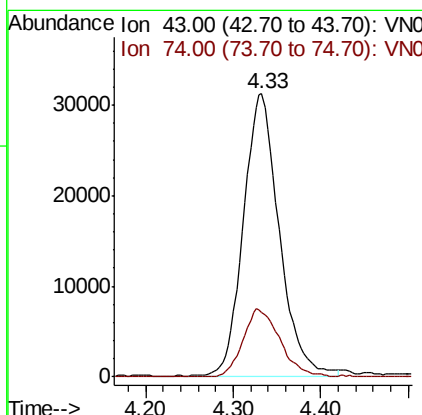
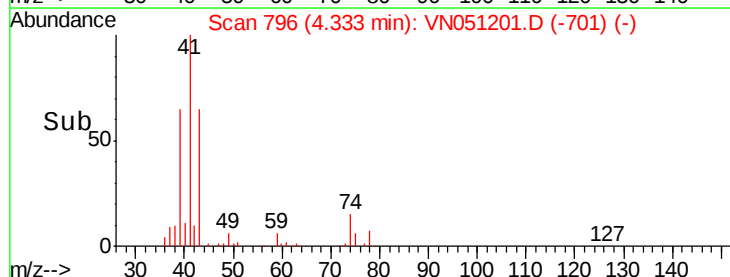
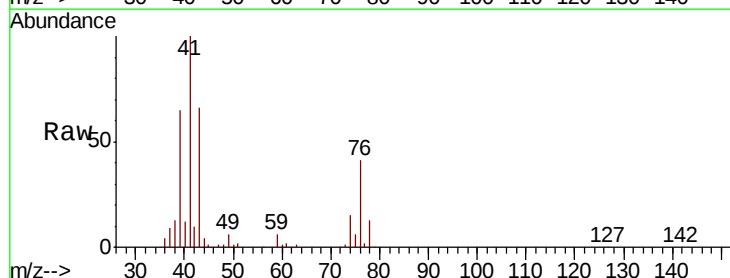
Manual Integrations
APPROVED

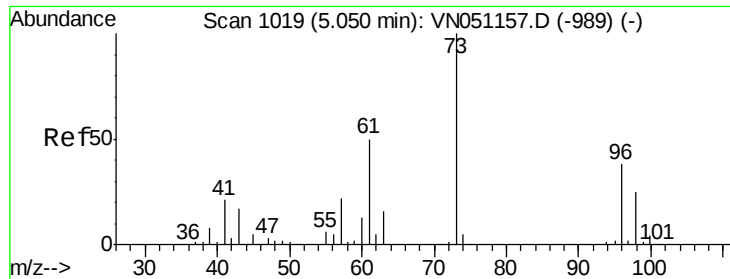
MMDadoda
9/17/2018 1:26:20 PM



#18
Methyl Acetate
Concen: 18.02 ug/l
RT: 4.33 min Scan# 796
Delta R.T. 0.01 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.6	20.7	31.1





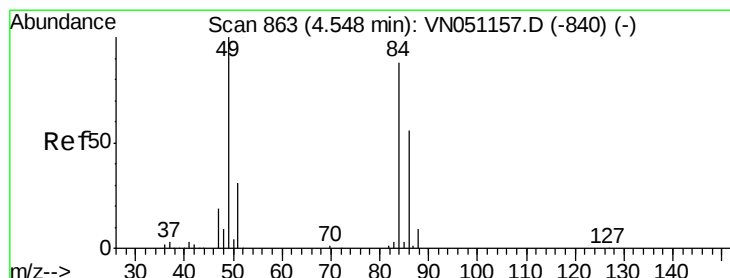
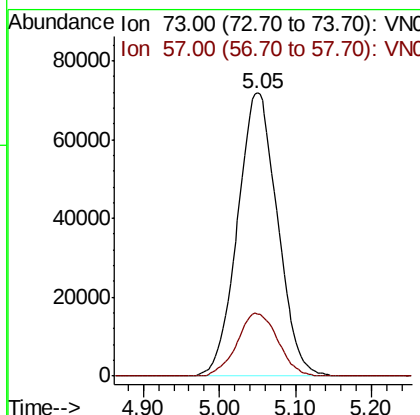
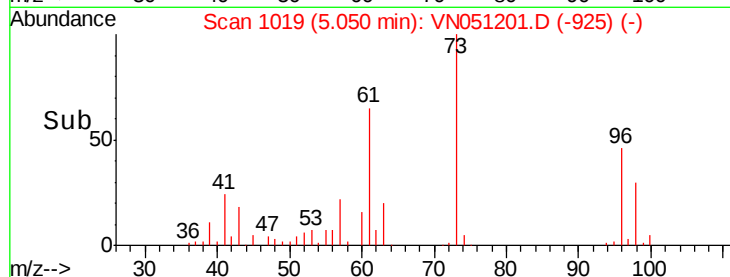
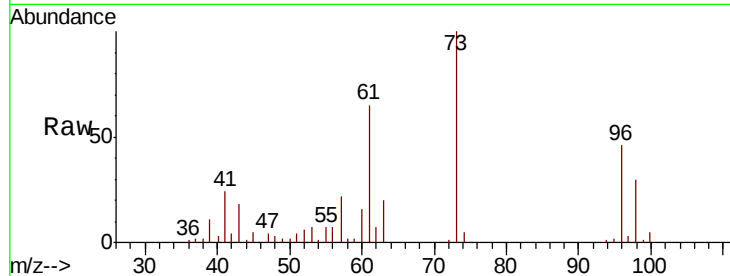
#19
Methvl tert-butvl Ether
Concen: 16.70 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Lower	Upper
73	100		
57	22.1	17.9	26.9

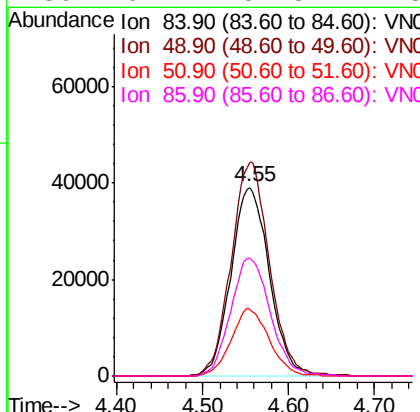
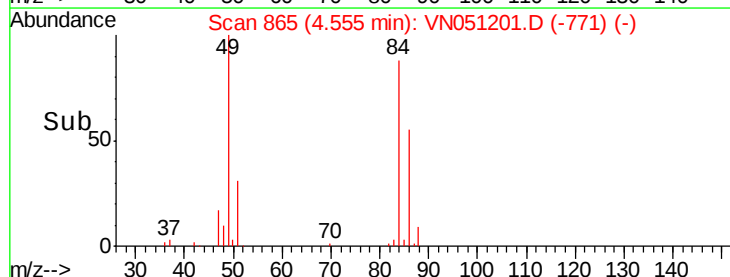
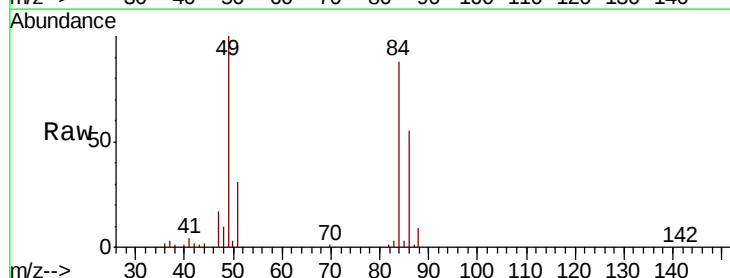
Manual Integrations
APPROVED

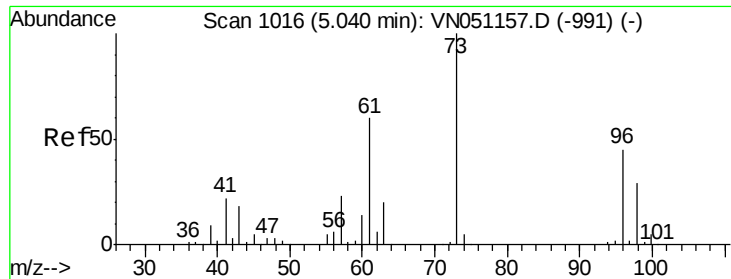
MMDadoda
9/17/2018 1:26:20 PM



#20
Methylene Chloride
Concen: 17.75 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
84	100		
49	113.0	90.2	135.2
51	35.0	28.4	42.6
86	62.4	51.8	77.8





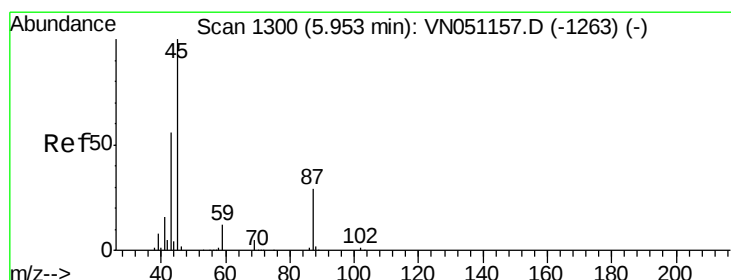
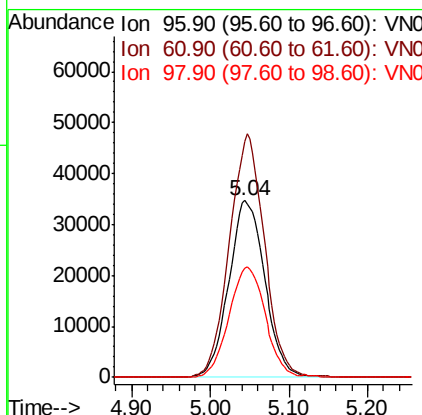
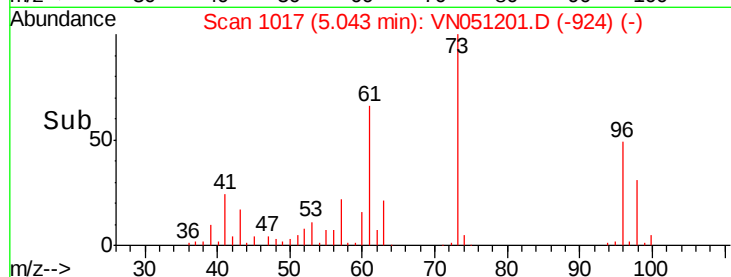
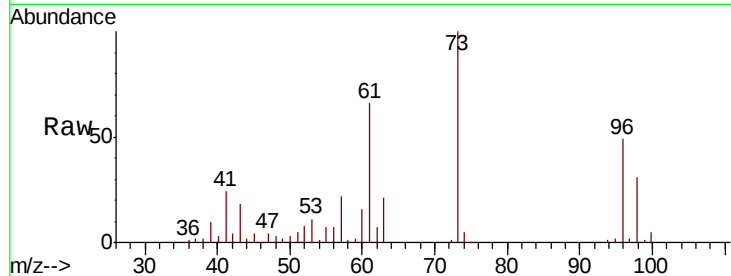
#21
trans-1,2-Dichloroethene
Concen: 17.19 ug/l
RT: 5.04 min Scan# 1017
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Lower	Upper
96	100		
61	133.6	106.5	159.7
98	61.8	50.4	75.6

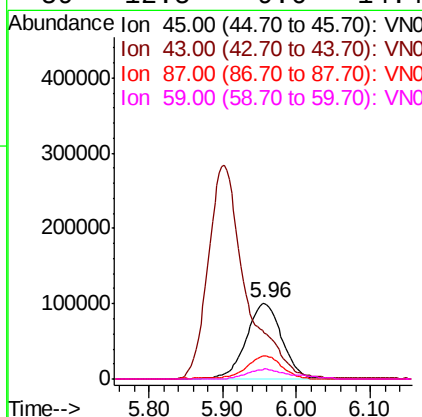
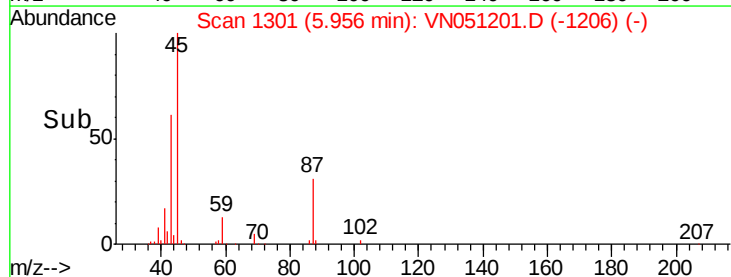
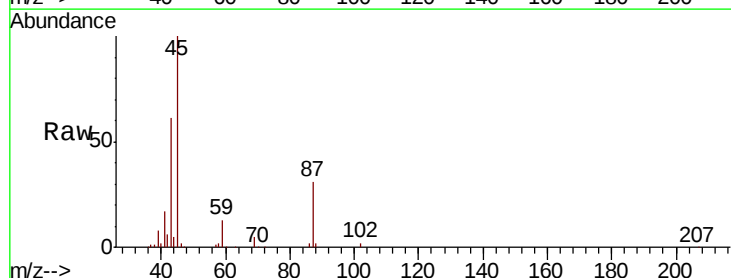
Manual Integrations
APPROVED

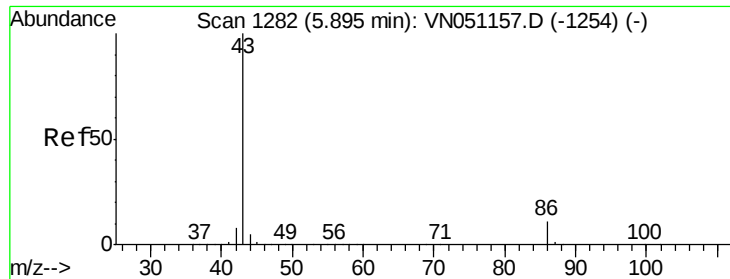
MMDadoda
9/17/2018 1:26:20 PM



#22
Diisopropyl ether
Concen: 18.88 ug/l
RT: 5.96 min Scan# 1301
Delta R.T. 0.01 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
45	100		
43	59.1	48.8	73.2
87	30.5	23.8	35.8
59	12.5	9.6	14.4





#23

Vinyl Acetate

Concen: 82.91 ug/l

RT: 5.90 min Scan# 1284

Delta R.T. 0.01 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBS03

Tot Ion: 43 Resp: 1007732

Ion Ratio Lower Upper

43 100

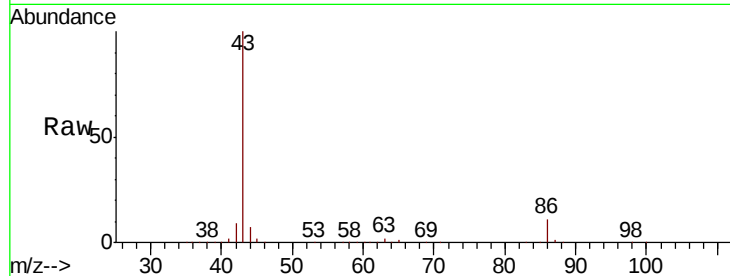
86 11.1 9.2 13.8

Manual Integrations

APPROVED

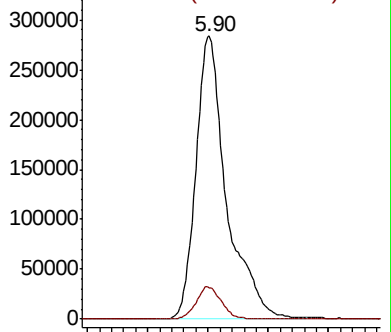
MMDadoda

9/17/2018 1:26:20 PM

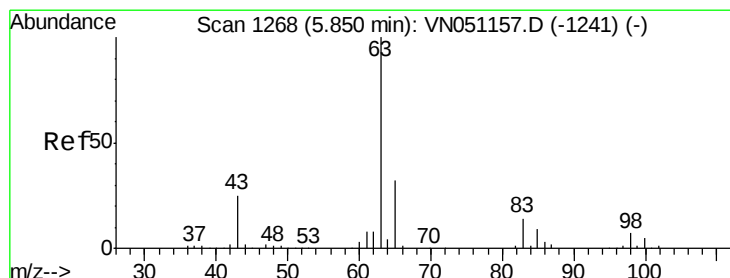
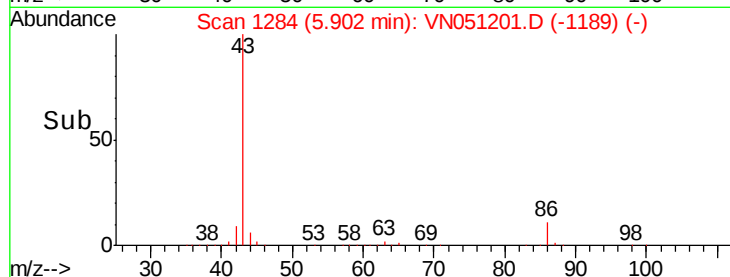


Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0



Time--> 5.70 5.80 5.90 6.00 6.10



#24

1,1-Dichloroethane

Concen: 18.33 ug/l

RT: 5.85 min Scan# 1269

Delta R.T. 0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

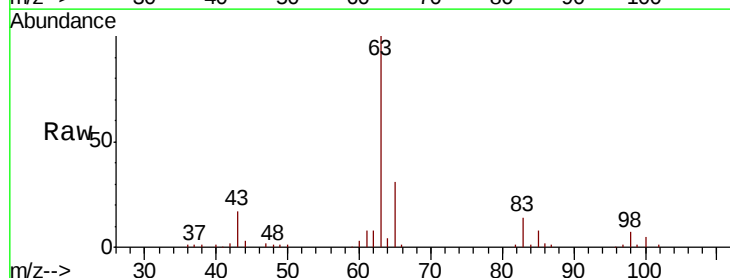
Tgt Ion: 63 Resp: 208845

Ion Ratio Lower Upper

63 100

98 6.5 3.4 10.1

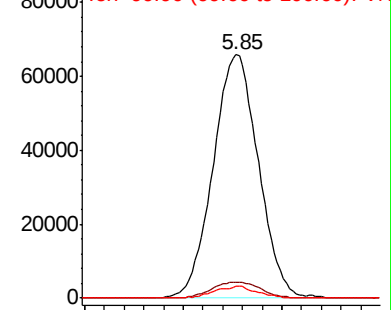
100 4.8 2.1 6.3



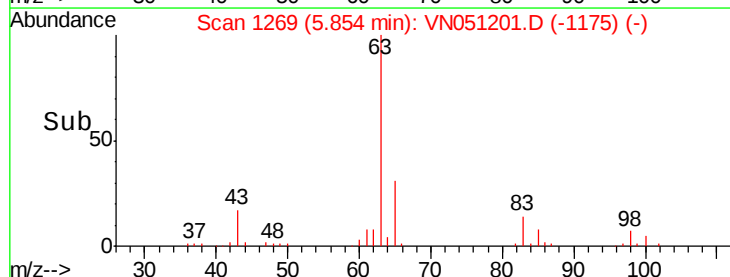
Abundance Ion 62.90 (62.60 to 63.60): VN0

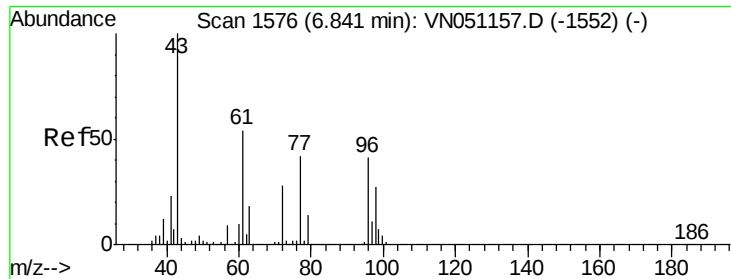
Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0



Time--> 5.70 5.80 5.90





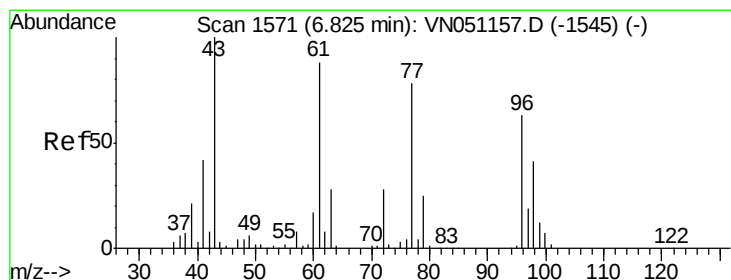
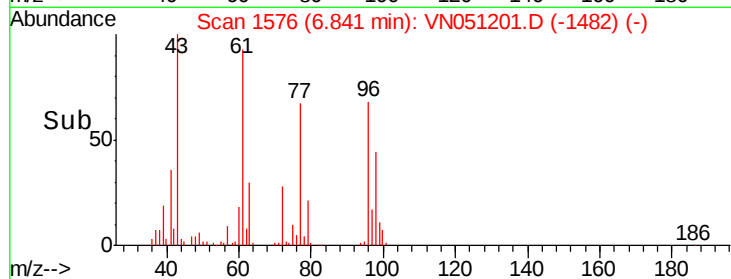
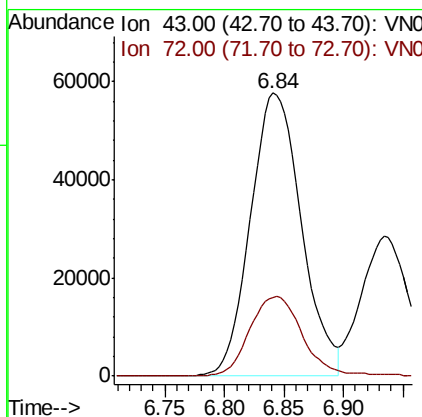
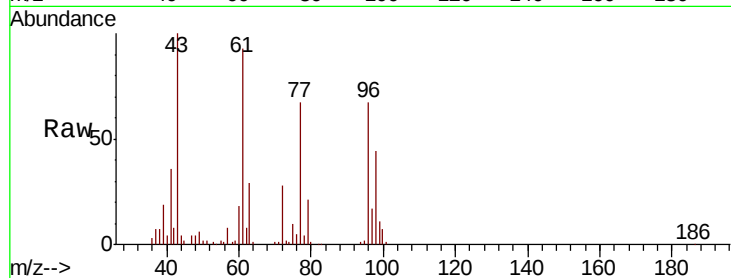
#25
2-Butanone
Concen: 70.31 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion: 43 Resp: 171281
Ion Ratio Lower Upper
43 100
72 27.9 23.0 34.6

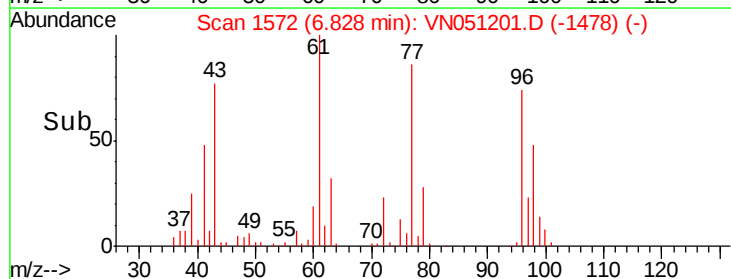
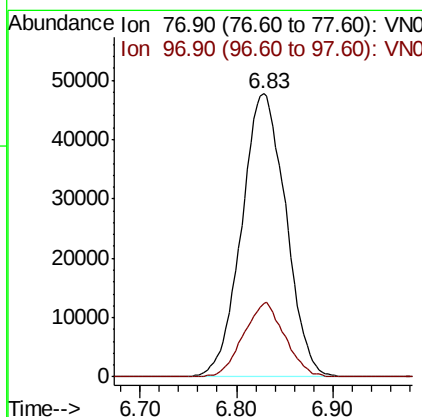
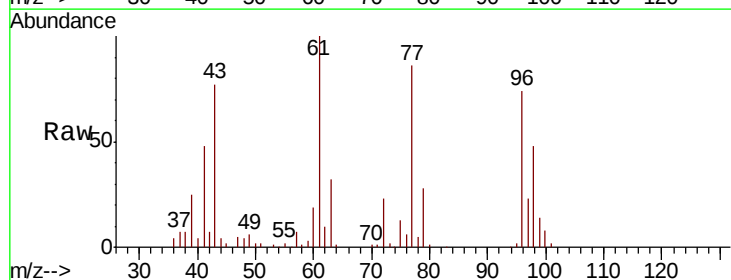
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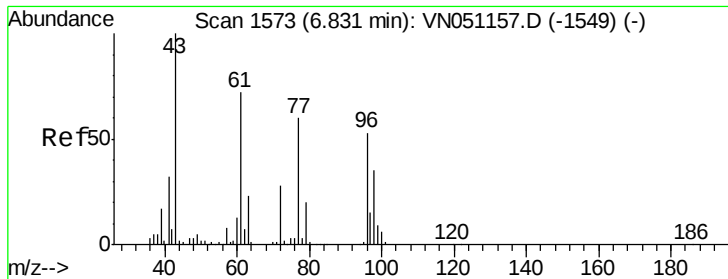
MMDadoda
9/17/2018 1:26:20 PM



#26
2,2-Dichloropropane
Concen: 16.24 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion: 77 Resp: 151419
Ion Ratio Lower Upper
77 100
97 24.7 12.1 36.3





#27

cis-1,2-Dichloroethene

Concen: 17.36 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

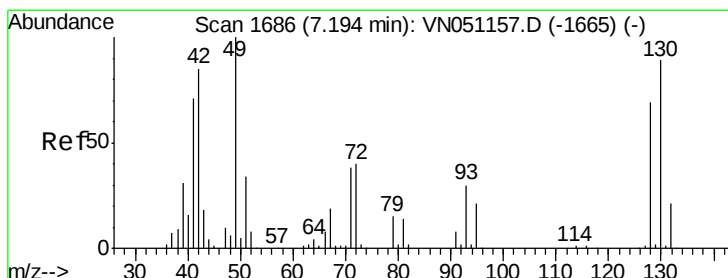
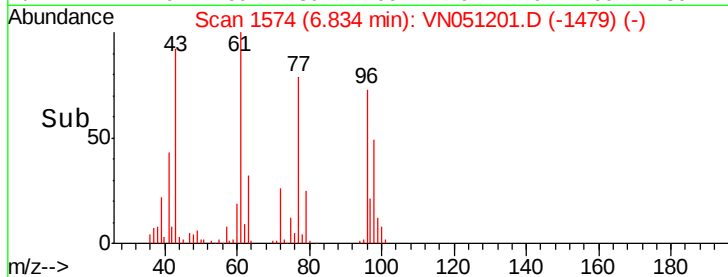
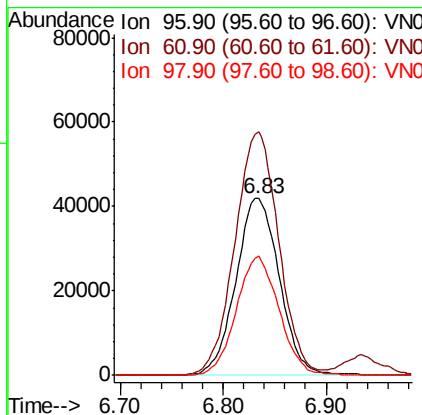
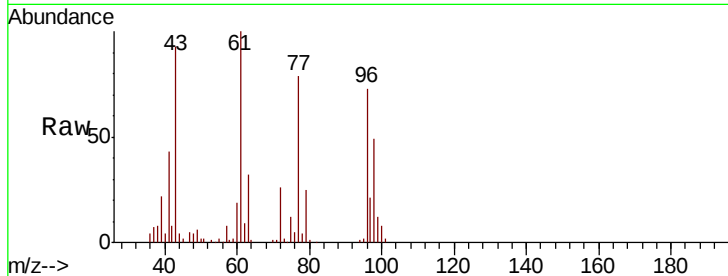
ClientSampleId :

VN0914WBS03

Tot Ion:	96	Resp:	122690
Ion Ratio	Lower	Upper	
96	100		
61	138.9	0.0	278.2
98	66.3	0.0	129.4

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9/17/2018 1:26:20 PM



#28

Bromochloromethane

Concen: 18.86 ug/l

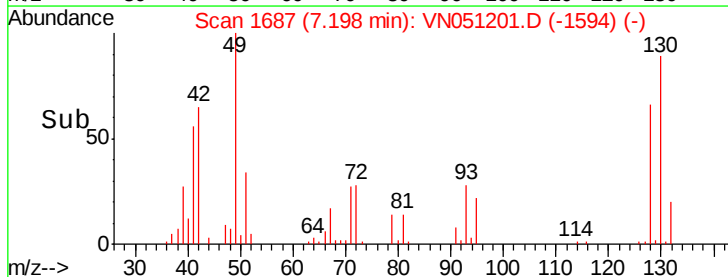
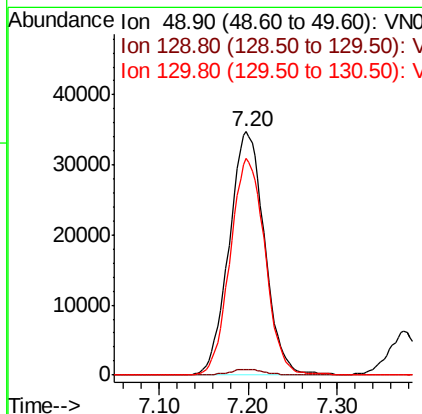
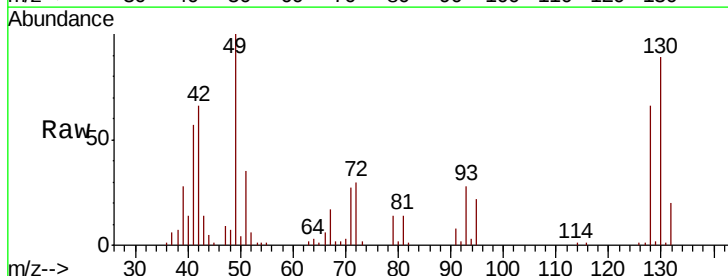
RT: 7.20 min Scan# 1687

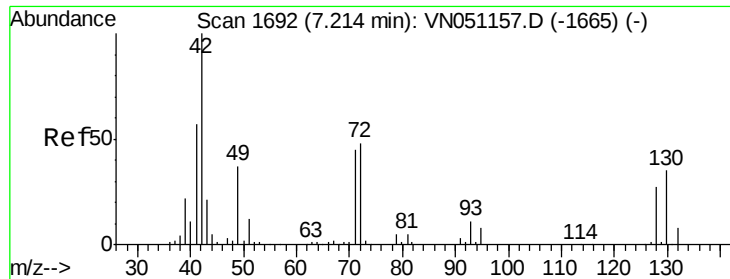
Delta R.T. -0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Tgt Ion:	49	Resp:	95670
Ion Ratio	Lower	Upper	
49	100		
129	1.1	0.0	4.4
130	87.4	70.7	106.1





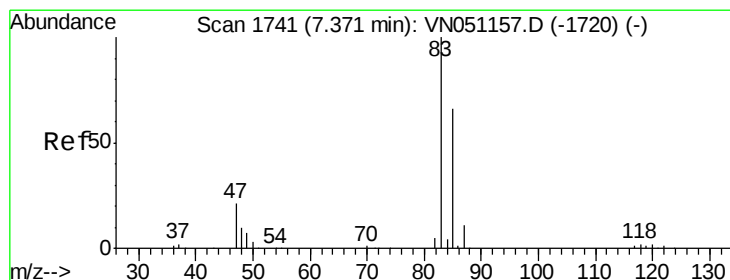
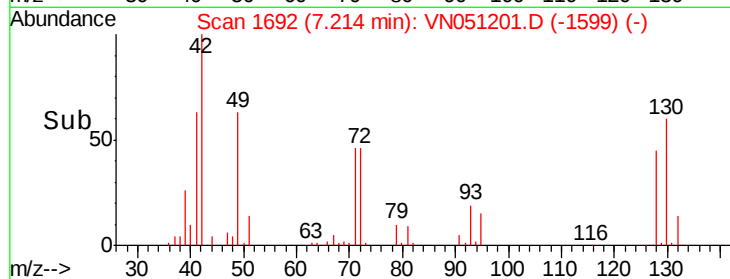
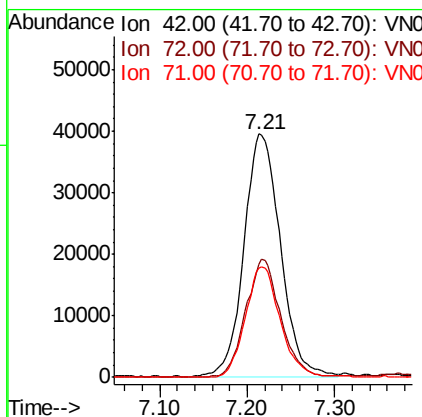
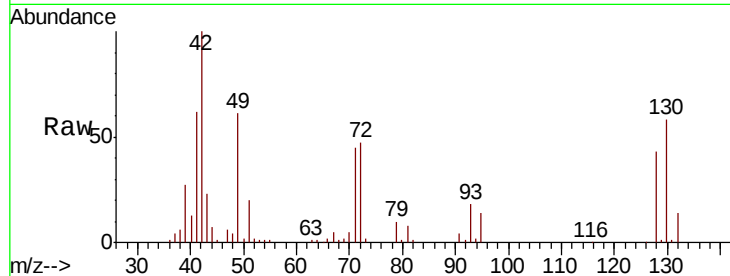
#29
Tetrahydrofuran
Concen: 75.76 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.2	37.4	56.0
71	43.0	34.7	52.1

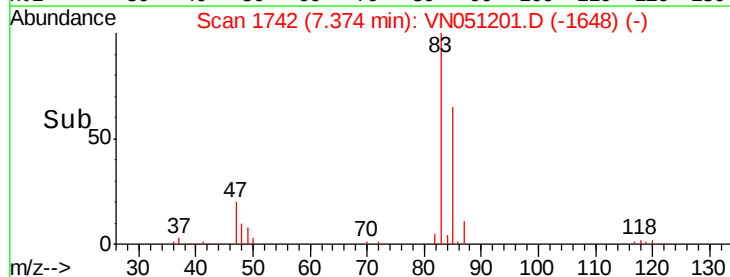
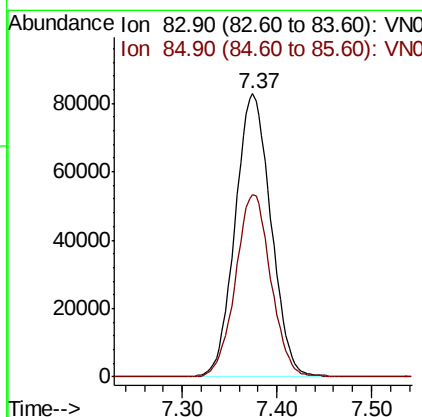
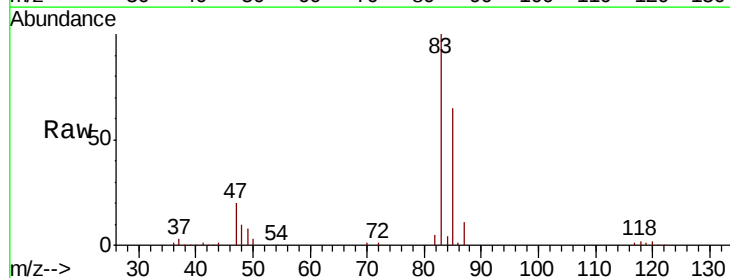
Manual Integrations
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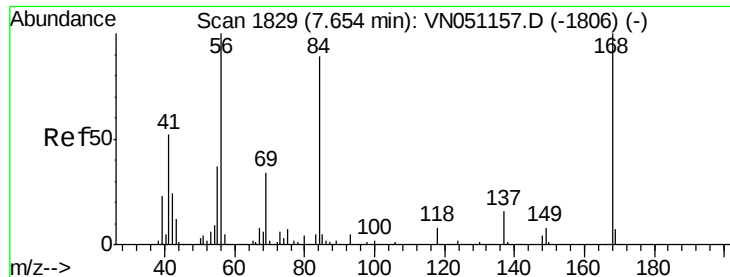
MMDadoda
9/17/2018 1:26:20 PM



#30
Chloroform
Concen: 19.22 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.6	79.0





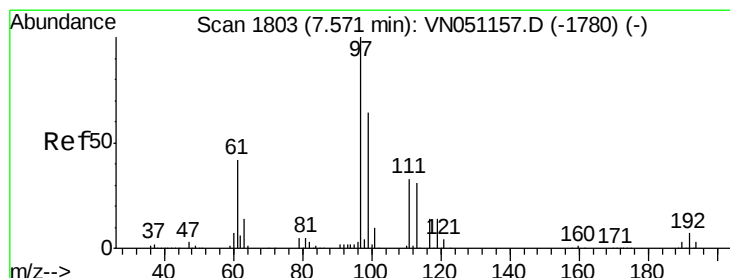
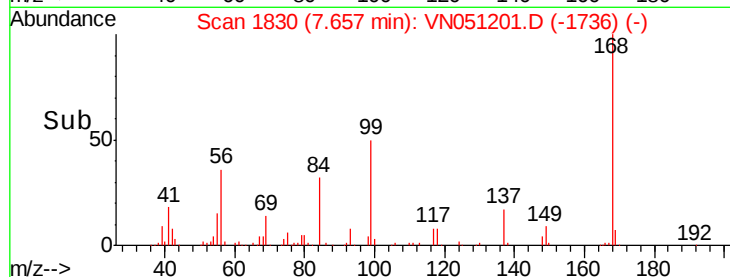
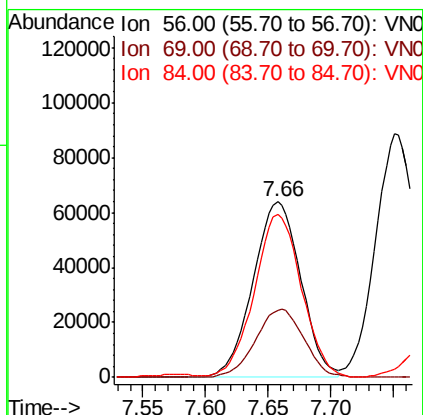
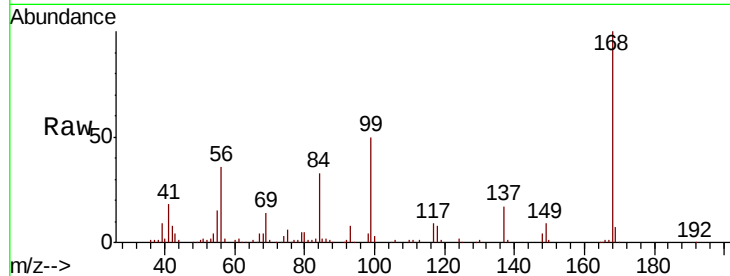
#31
Cyclohexane
Concen: 16.52 ug/l
RT: 7.66 min Scan# 1830
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Lower	Upper
56	100		
69	37.9	26.3	39.5
84	91.4	69.4	104.0

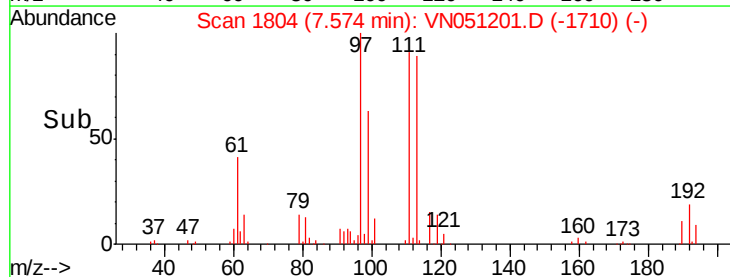
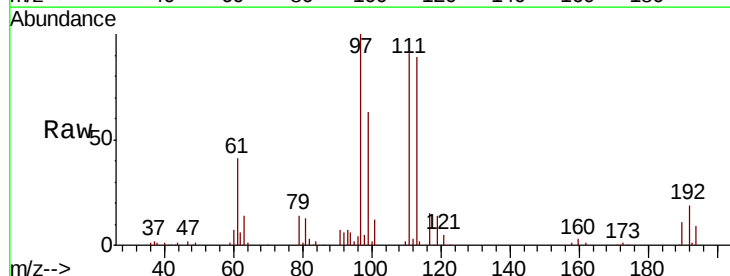
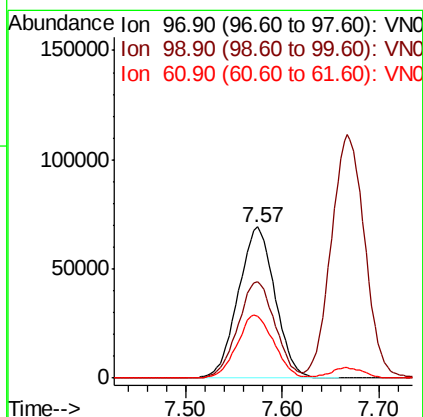
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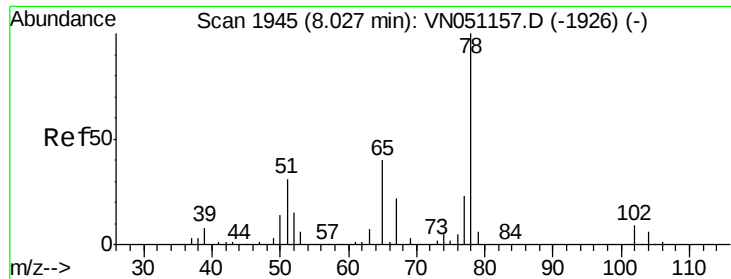
MMDadoda
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#32
1,1,1-Trichloroethane
Concen: 18.95 ug/l
RT: 7.57 min Scan# 1804
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.2	51.6	77.4
61	41.8	33.8	50.6





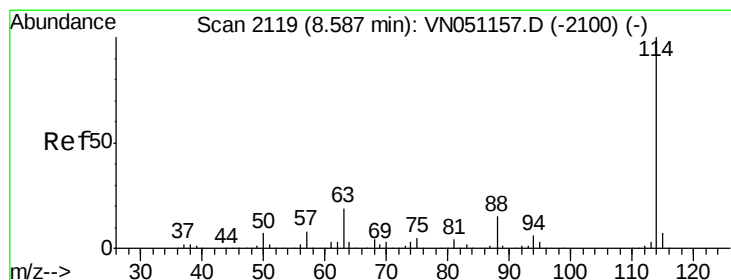
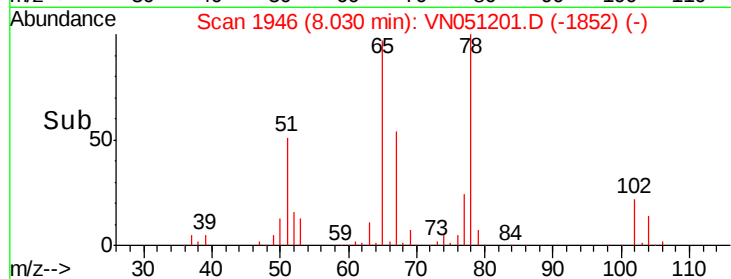
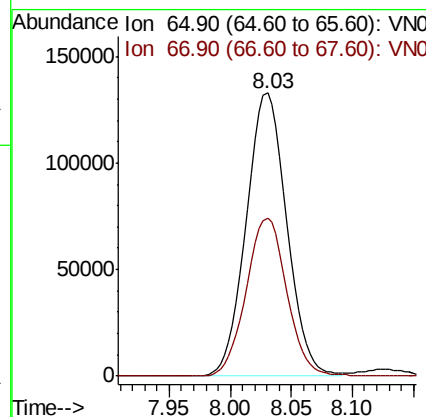
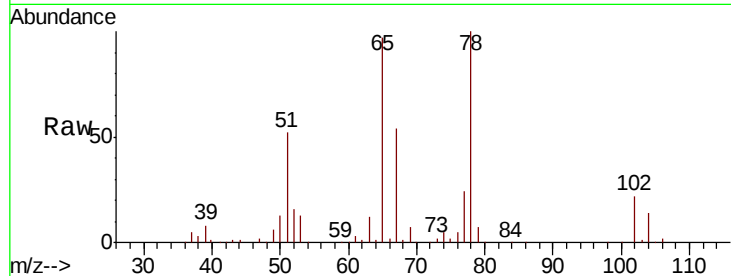
#33
 1,2-Dichloroethane-d4
 Concen: 49.28 ug/l
 RT: 8.03 min Scan# 1946
 Delta R.T. 0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Instrument :
 MSVOA_N
 ClientSampled :
 VN0914WBS03

Tot Ion	Ratio	Resp	Lower	Upper
65	100			
67	56.1	0.0	112.0	

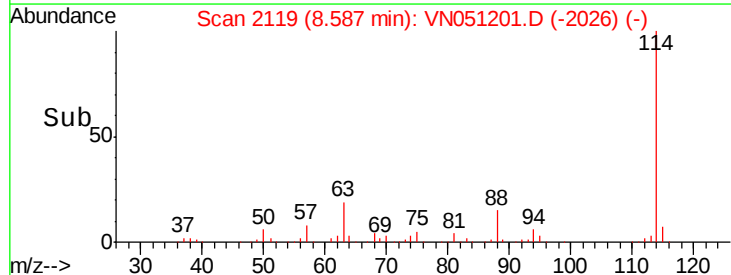
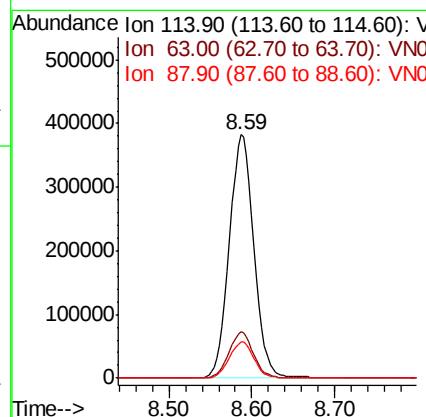
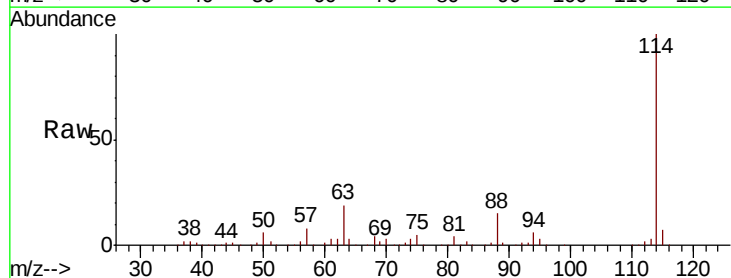
Manual Integrations
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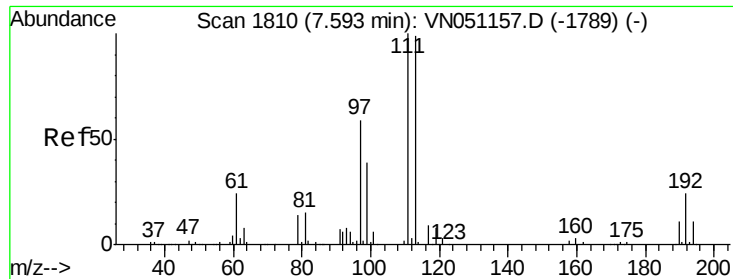
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 9/17/2018 1:26:20 PM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. -0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Resp	Lower	Upper
114	100			
63	18.9	0.0	37.8	
88	14.9	0.0	30.8	





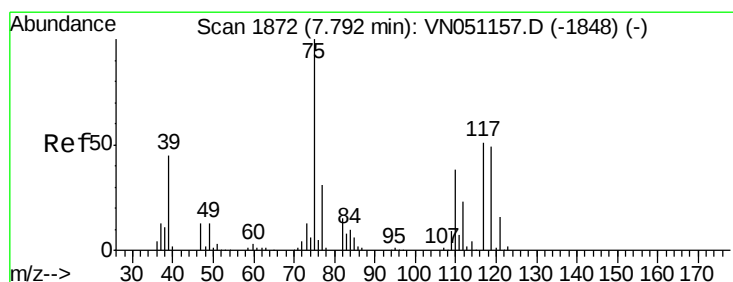
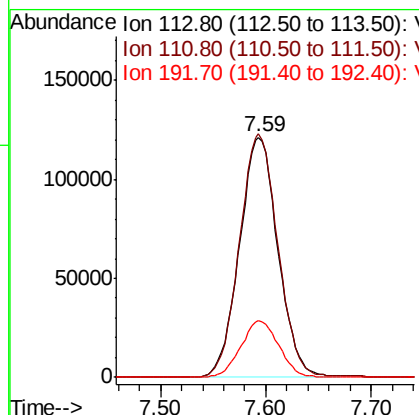
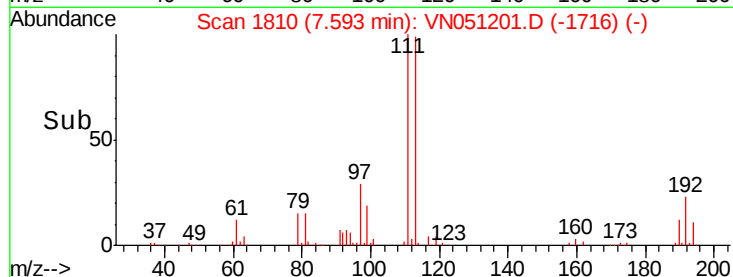
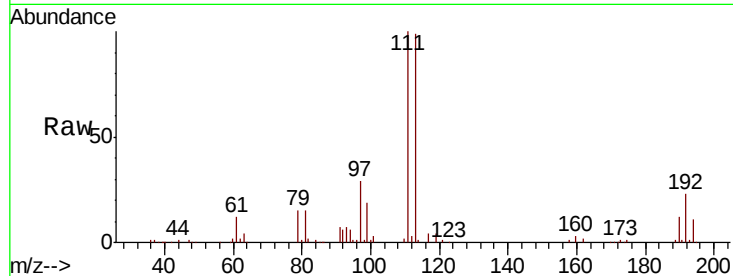
#35
Dibromofluoromethane
Concen: 51.75 ug/l
RT: 7.59 min Scan# 1810
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	101.1	83.0	124.6	
192	23.4	18.7	28.1	

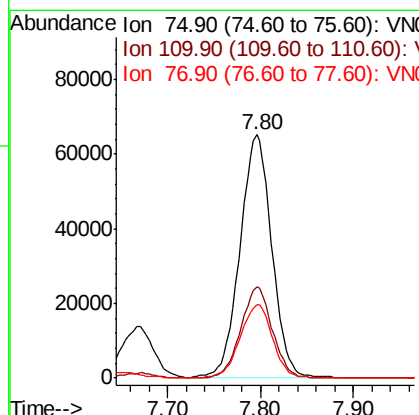
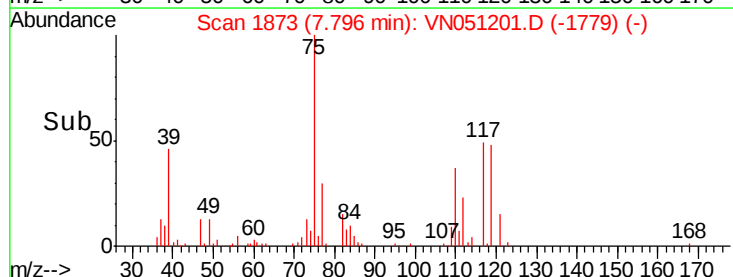
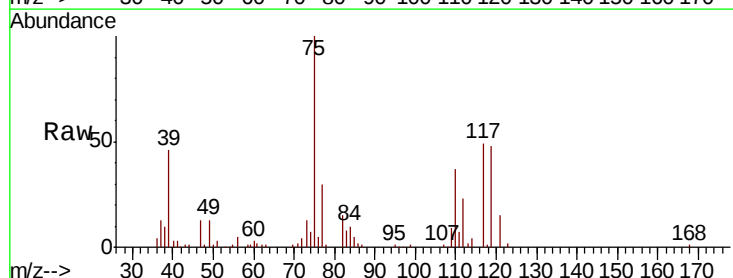
Manual Integrations
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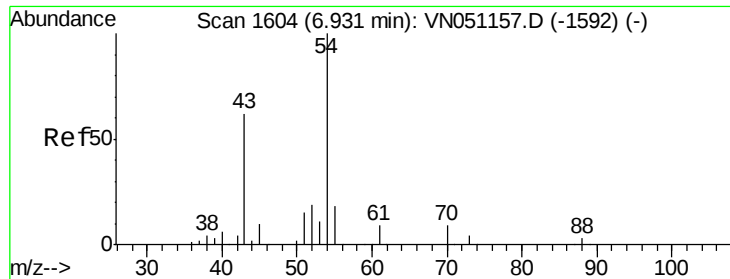
MMDadoda
9/17/2018 1:26:20 PM



#36
1,1-Dichloropropene
Concen: 17.79 ug/l
RT: 7.80 min Scan# 1873
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.5	18.6	55.8	
77	31.0	25.2	37.8	





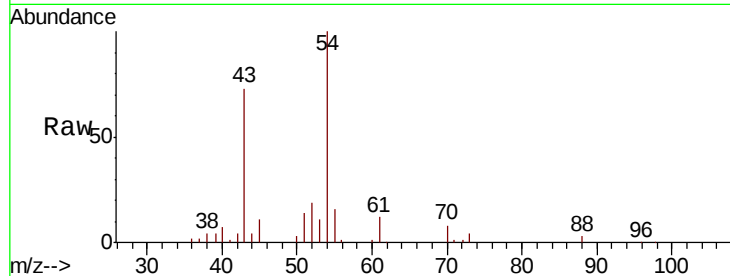
#37
Ethyl Acetate
Concen: 16.62 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Lower	Upper
43	100		
61	15.7	12.4	18.6
70	11.1	9.3	13.9

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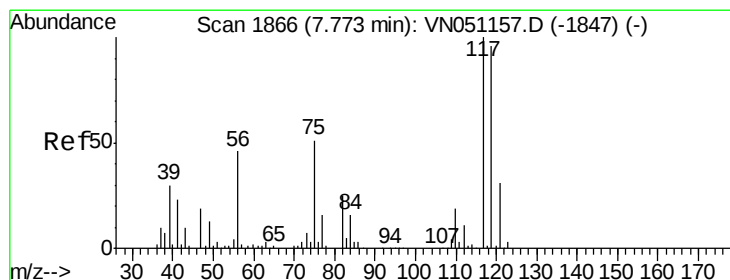
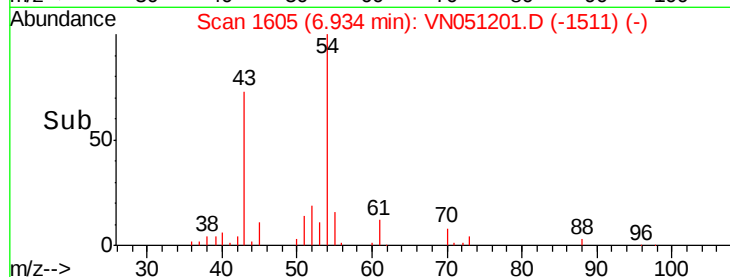
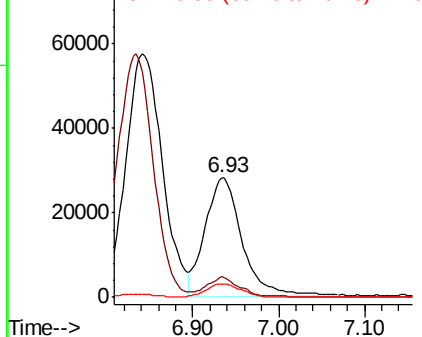


Abundance

Ion 43.00 (42.70 to 43.70): VN051157.D (-1592) (-)

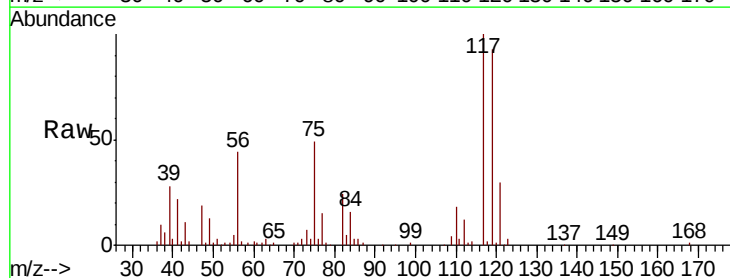
Ion 60.90 (60.60 to 61.60): VN051157.D (-1592) (-)

Ion 70.00 (69.70 to 70.70): VN051157.D (-1592) (-)



#38
Carbon Tetrachloride
Concen: 19.15 ug/l
RT: 7.78 min Scan# 1867
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
117	100		
119	92.9	76.8	115.2
121	29.7	24.6	36.8

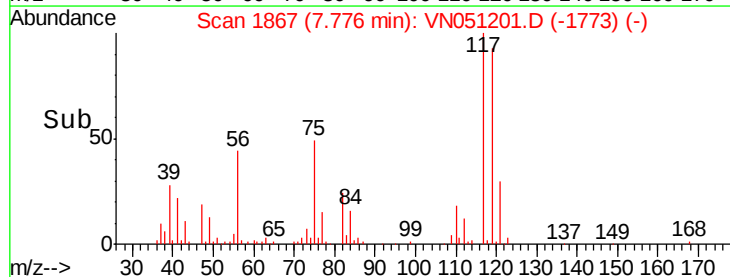
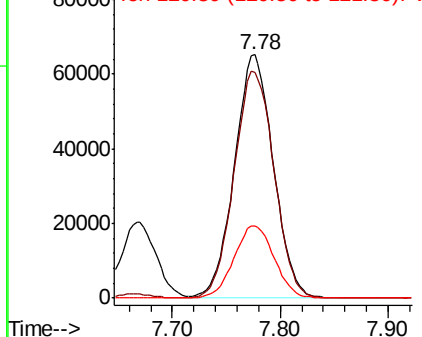


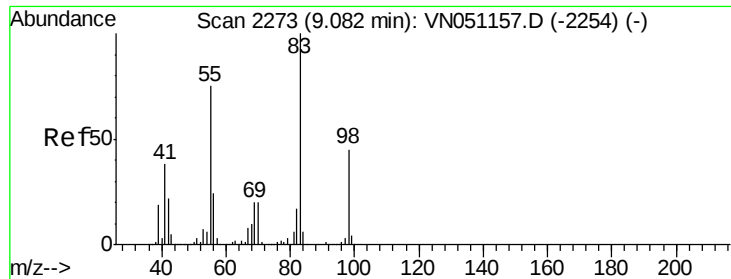
Abundance

Ion 116.80 (116.50 to 117.50): VN051157.D (-1847) (-)

Ion 118.80 (118.50 to 119.50): VN051157.D (-1847) (-)

Ion 120.80 (120.50 to 121.50): VN051157.D (-1847) (-)





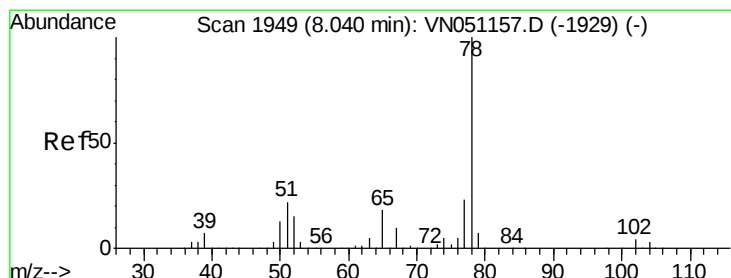
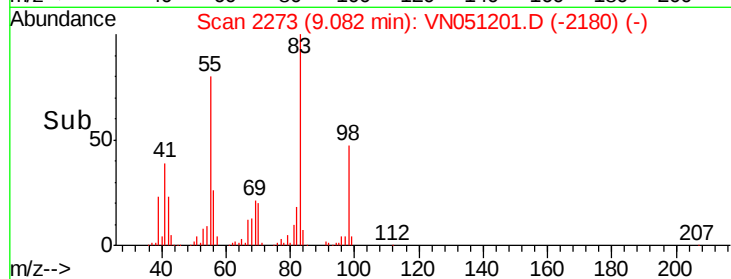
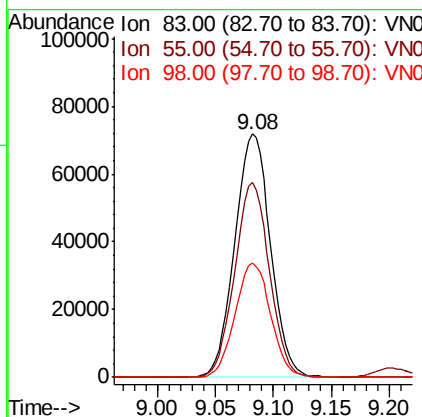
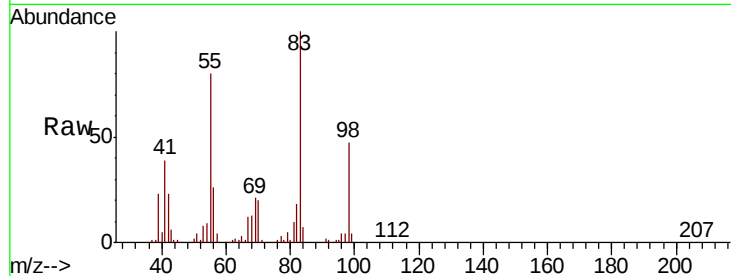
#39
Methvlcvclohexane
Concen: 16.08 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Lower	Upper
83	100		
55	80.0	58.4	87.6
98	47.0	37.3	55.9

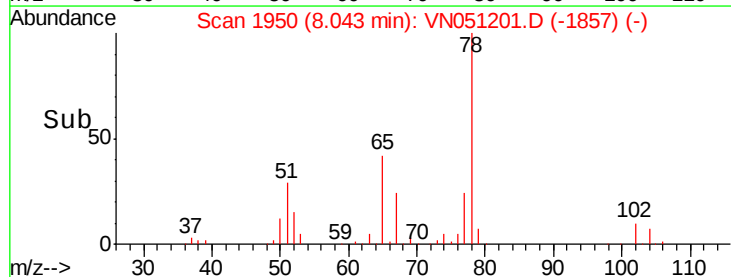
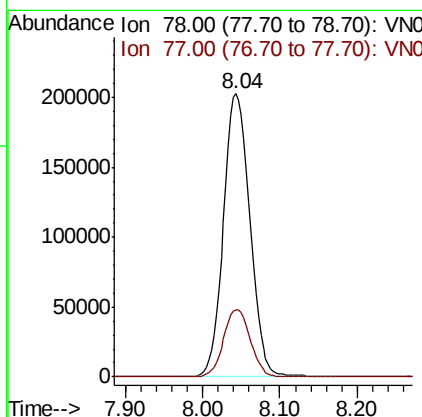
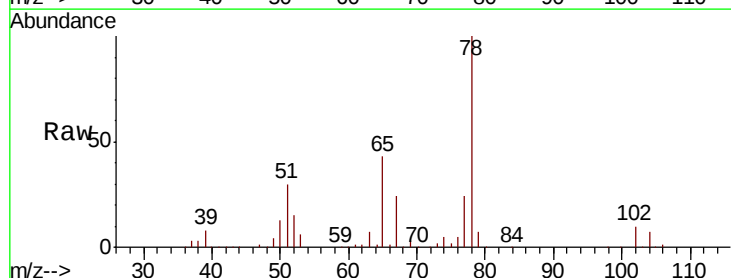
Manual Integrations
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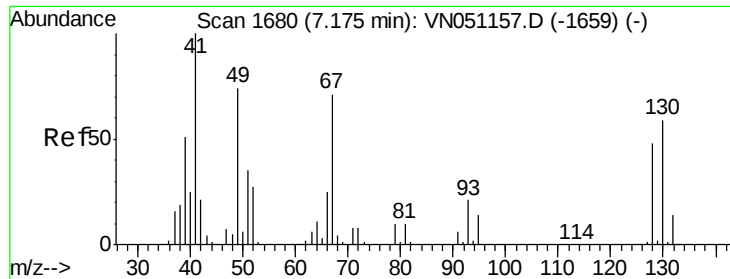
MMDadoda
9/17/2018 1:26:20 PM



#40
Benzene
Concen: 18.44 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	18.6	27.8





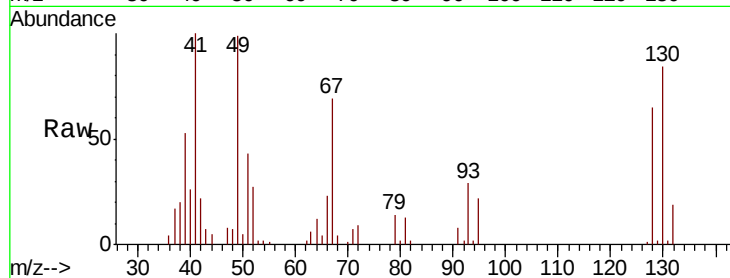
#41
Methacrylonitrile
Concen: 16.34 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

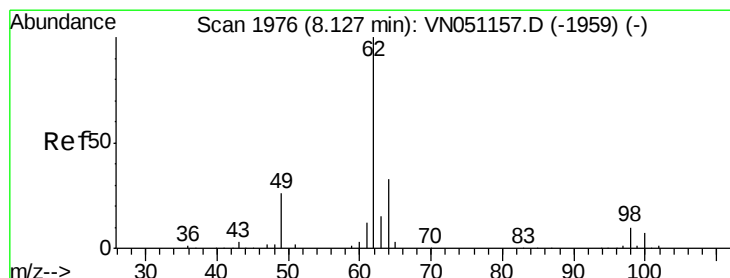
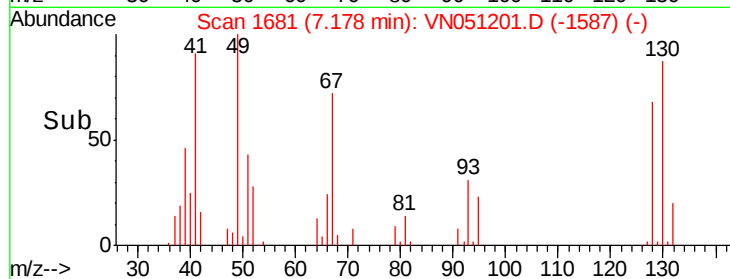
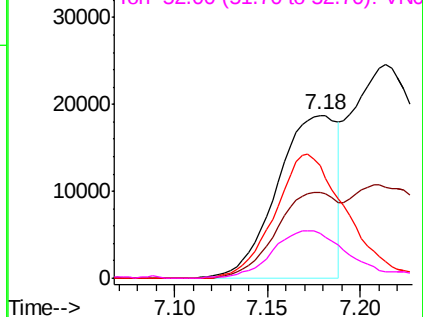
Tot Ion: 41 Resp: 42295
Ion Ratio Lower Upper
41 100
39 56.2 51.3 76.9
67 91.9 78.5 117.7
52 38.3 29.0 43.6

Manual Integrations
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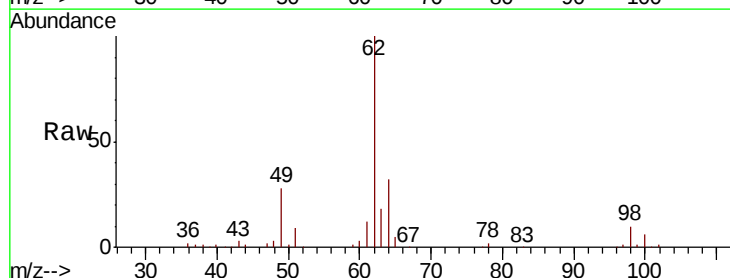


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

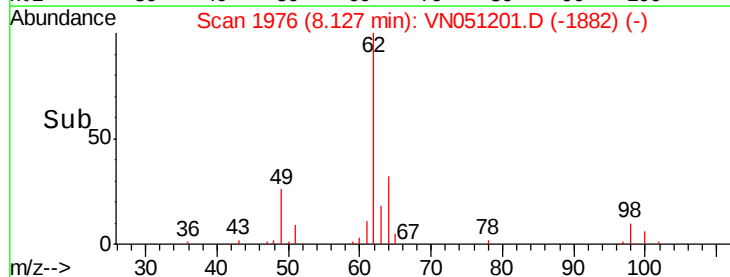
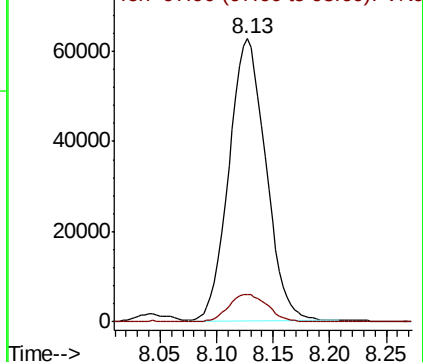


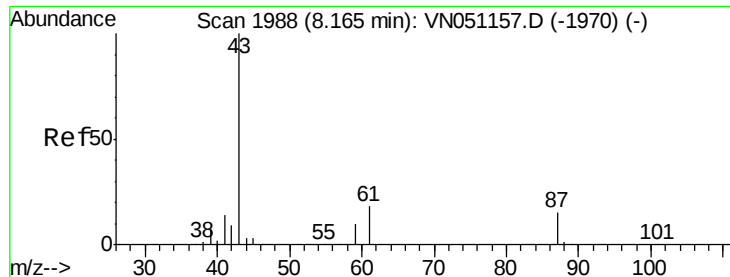
#42
1,2-Dichloroethane
Concen: 18.66 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion: 62 Resp: 141982
Ion Ratio Lower Upper
62 100
98 10.3 0.0 21.0



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





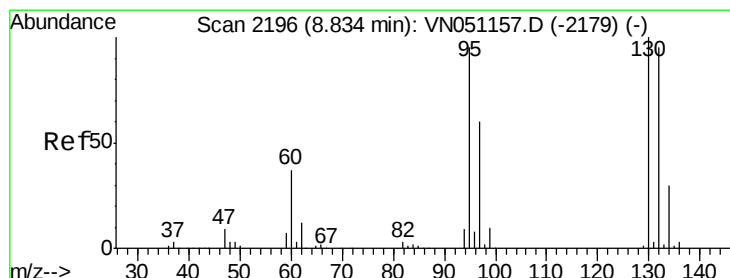
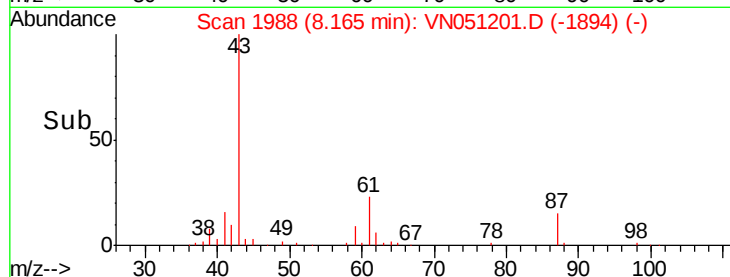
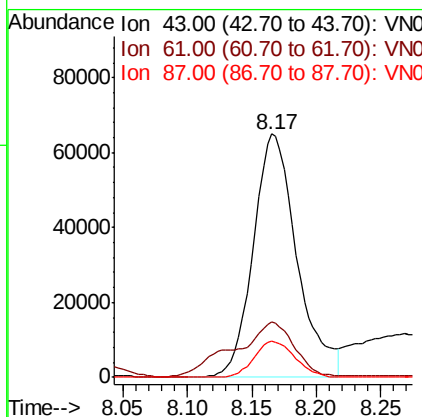
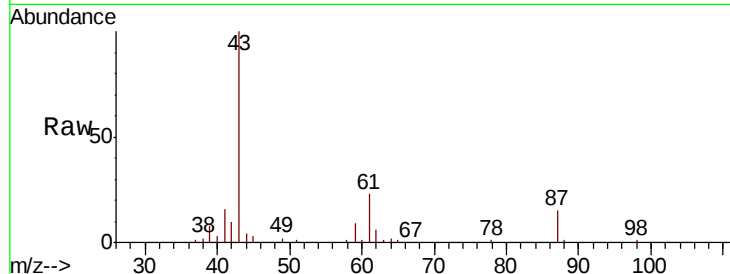
#43
Isopropyl Acetate
Concen: 17.39 ug/l
RT: 8.17 min Scan# 1988
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Lower	Upper
43	100		
61	20.5	25.0	37.6#
87	13.8	11.8	17.8

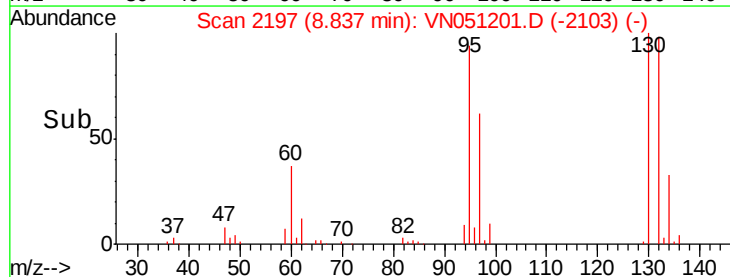
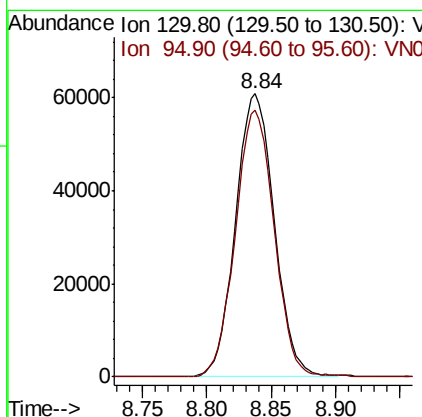
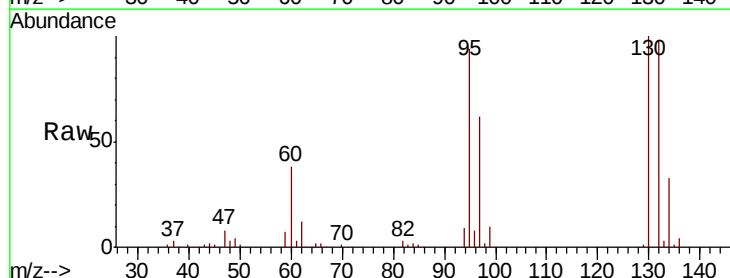
Manual Integrations
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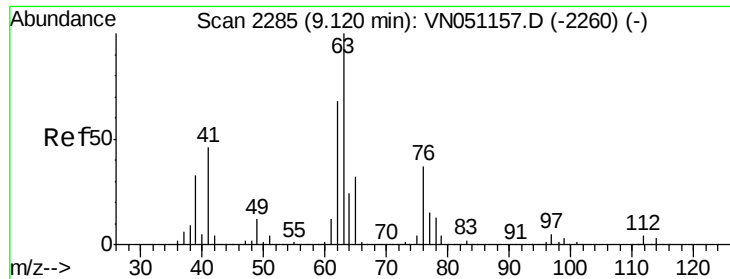
MMDadoda
9/17/2018 1:26:20 PM



#44
Trichloroethene
Concen: 17.84 ug/l
RT: 8.84 min Scan# 2197
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.1	0.0	186.2





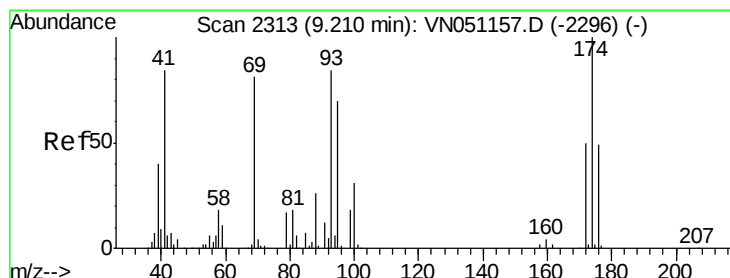
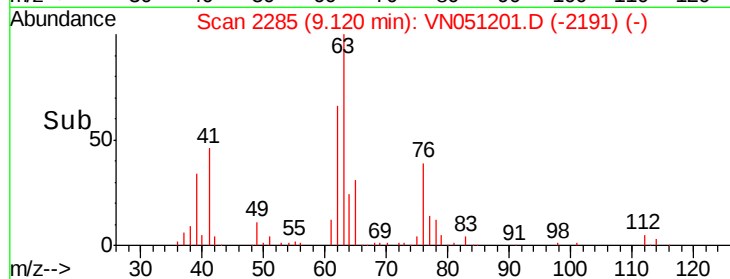
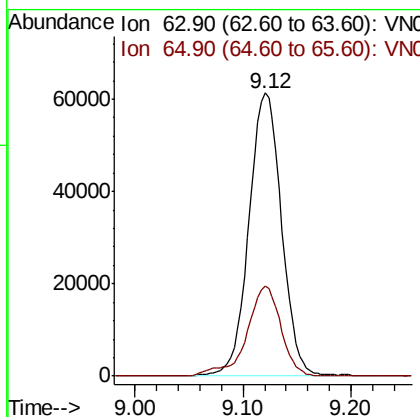
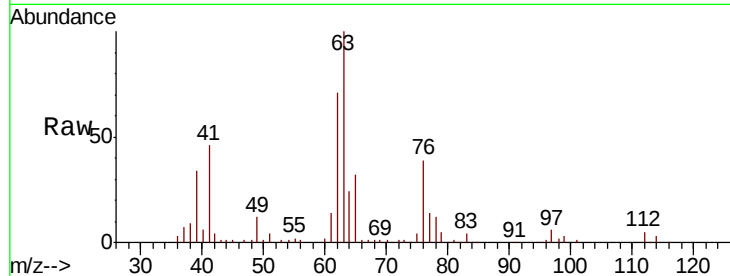
#45
 1,2-Dichloropropane
 Concen: 19.11 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBS03

Tot Ion: 63 Resp: 128897
 Ion Ratio Lower Upper
 63 100
 65 31.7 24.7 37.1

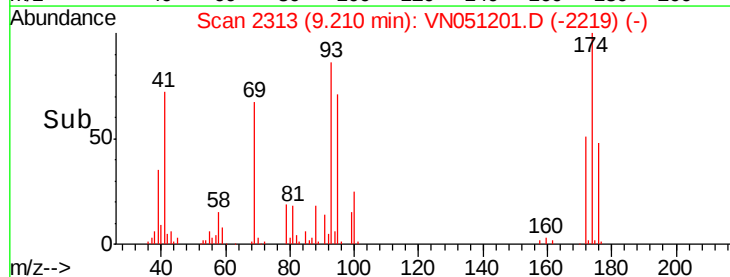
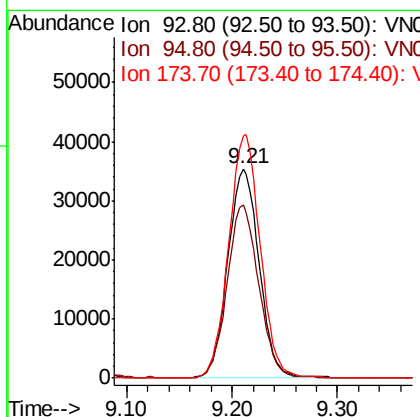
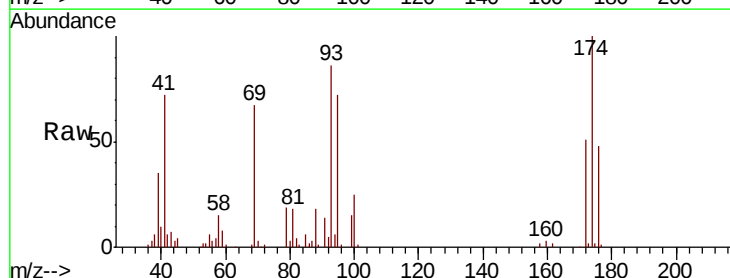
Manual Integrations
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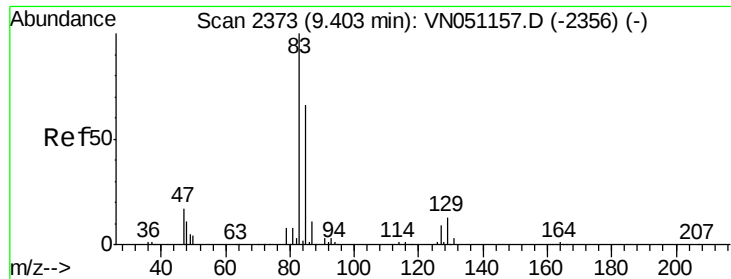
MMDadoda
 9/17/2018 1:26:20 PM



#46
 Dibromomethane
 Concen: 17.77 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Tgt Ion: 93 Resp: 73112
 Ion Ratio Lower Upper
 93 100
 95 83.3 66.8 100.2
 174 116.2 93.3 139.9





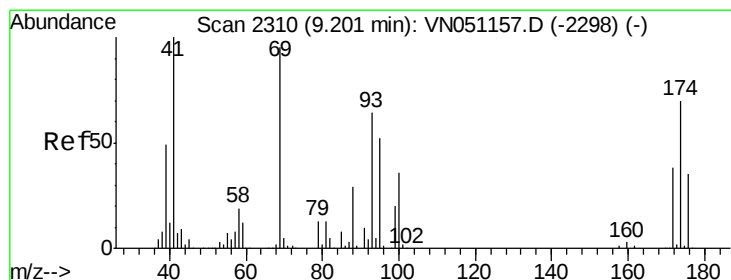
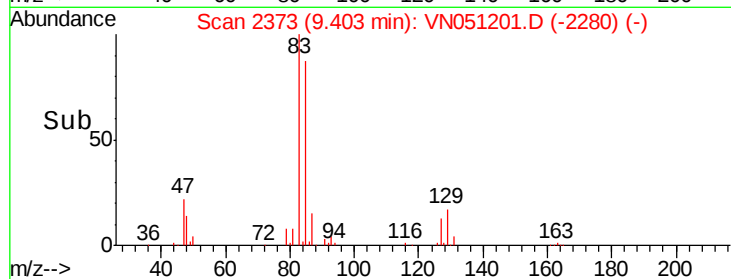
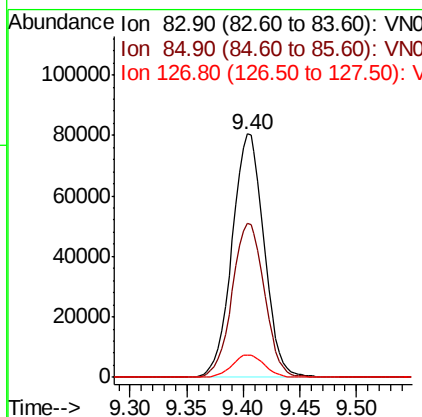
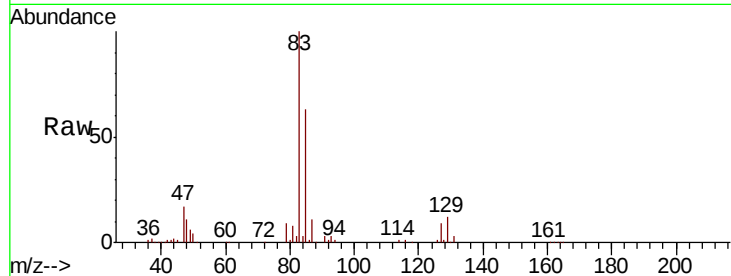
#47
Bromodichloromethane
Concen: 18.93 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	83	Resp	158417
Ion Ratio	100	Lower	Upper
83	100		
85	63.2	52.3	78.5
127	9.3	7.5	11.3

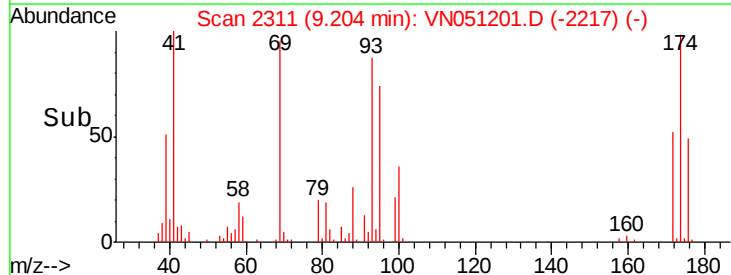
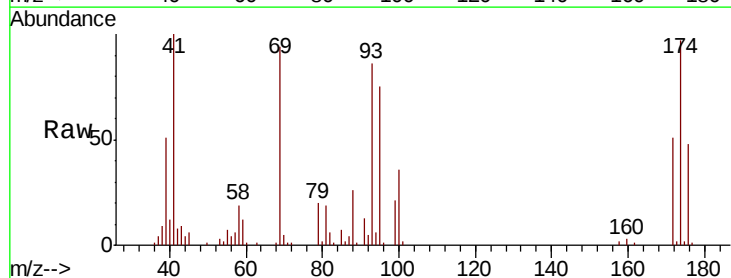
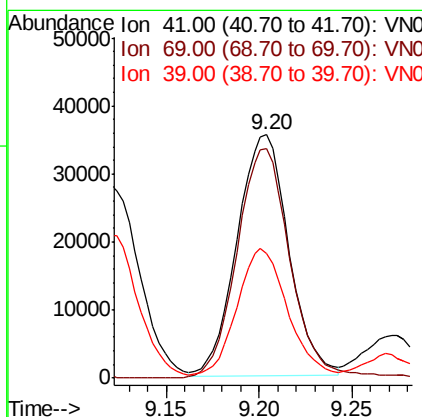
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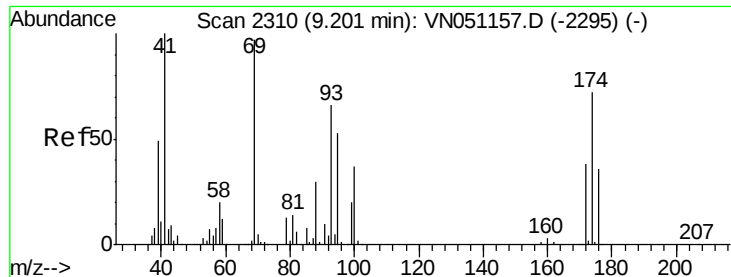
MMDadoda
9/17/2018 1:26:20 PM



#48
Methyl methacrylate
Concen: 16.07 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	41	Resp	69345
Ion Ratio	100	Lower	Upper
41	100		
69	97.8	77.7	116.5
39	52.1	41.6	62.4





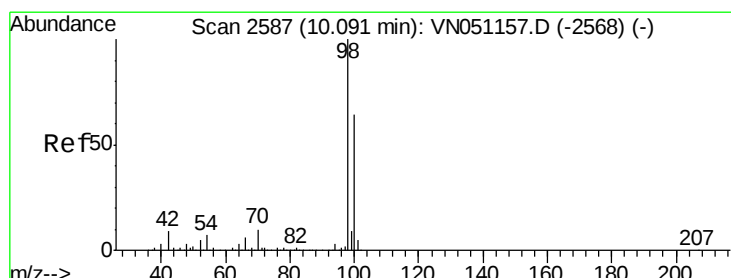
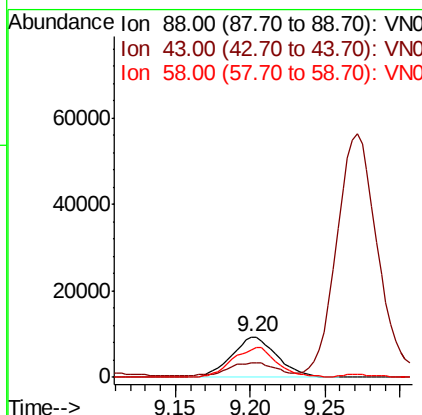
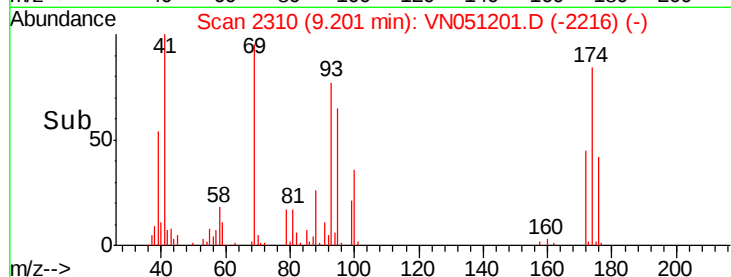
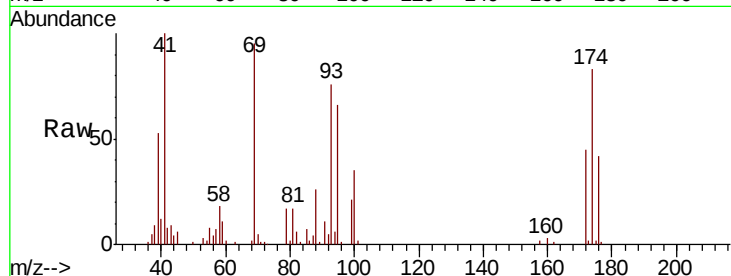
#49
1,4-Dioxane
Concen: 289.41 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.6	23.7	35.5
58	73.2	54.6	82.0

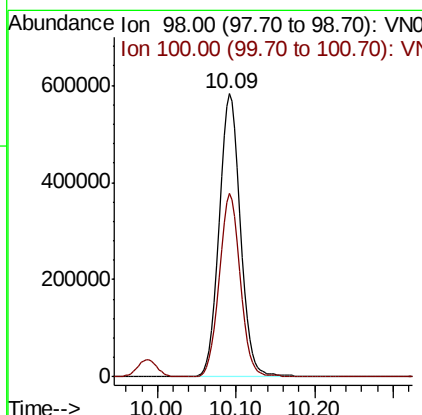
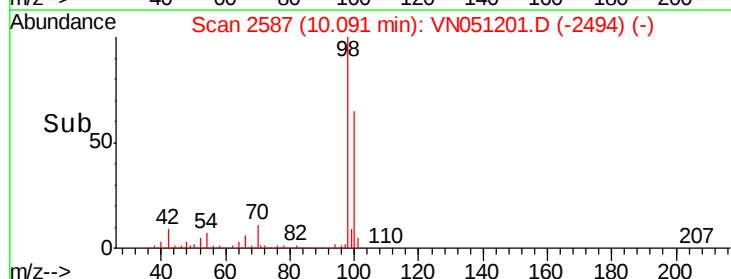
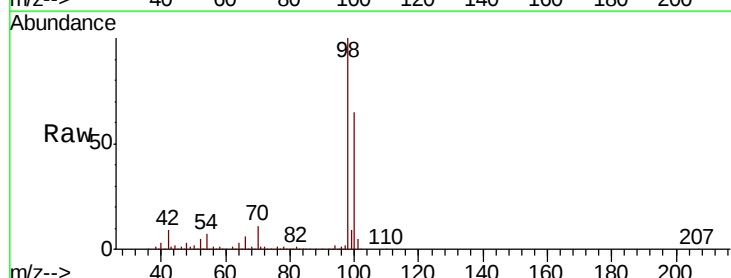
Manual Integrations
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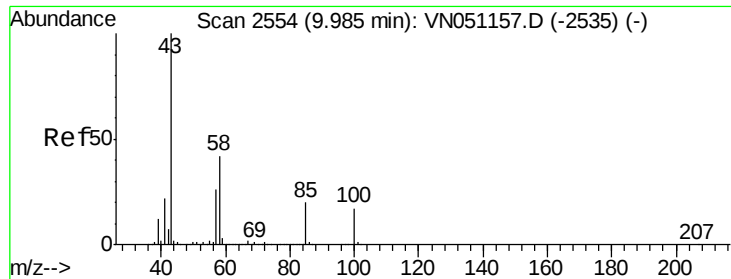
MMDadoda
9/17/2018 1:26:20 PM



#50
Toluene-d8
Concen: 48.10 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.1	52.0	78.0





#51

4-Methyl-2-Pentanone

Concen: 80.16 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. -0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBS03

Tot Ion: 43 Resp: 392427

Ion Ratio Lower Upper

43 100

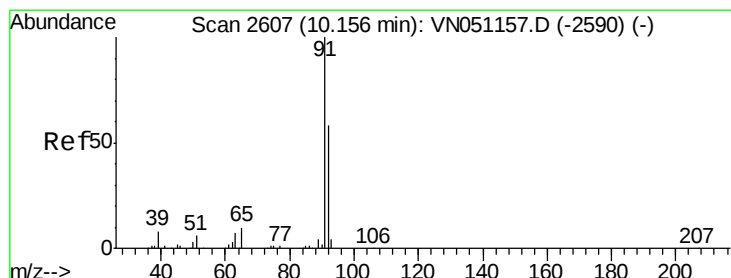
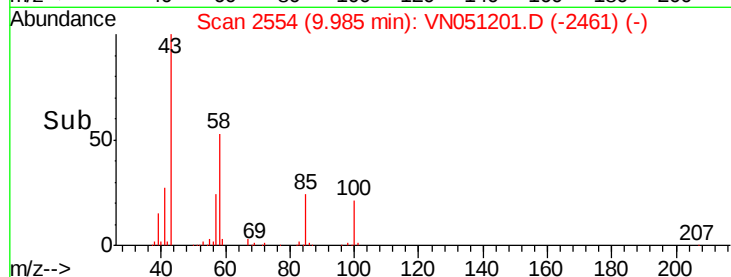
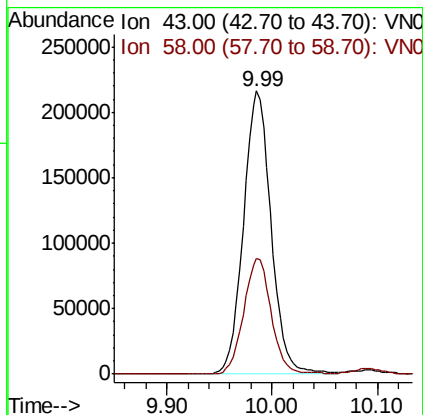
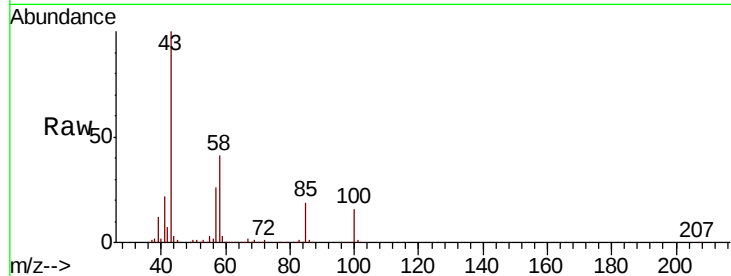
58 41.1 33.5 50.3

Manual Integrations

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MMDadoda

9/17/2018 1:26:20 PM



#52

Toluene

Concen: 18.11 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. -0.00 min

Lab File: VN051201.D

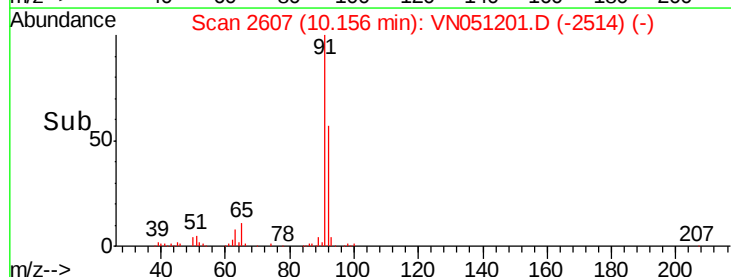
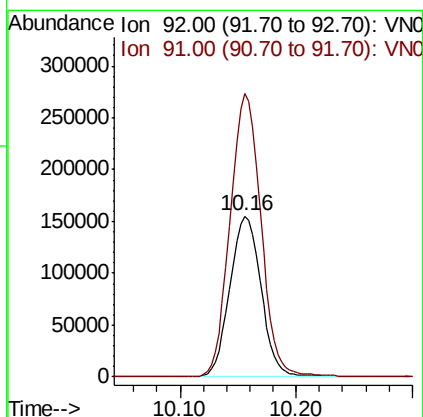
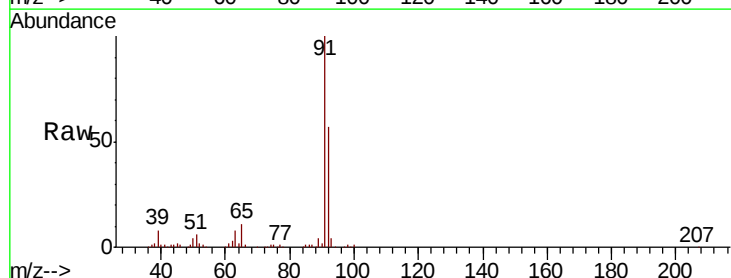
Acq: 14 Sep 2018 20:31

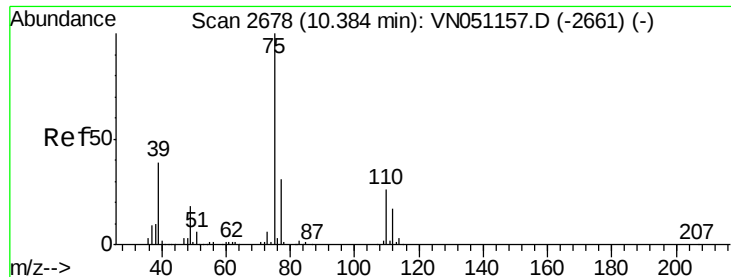
Tgt Ion: 92 Resp: 288282

Ion Ratio Lower Upper

92 100

91 175.1 139.5 209.3





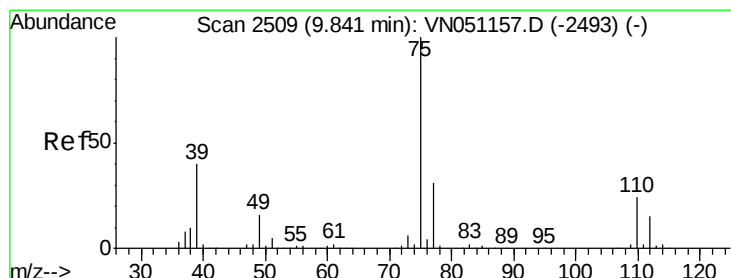
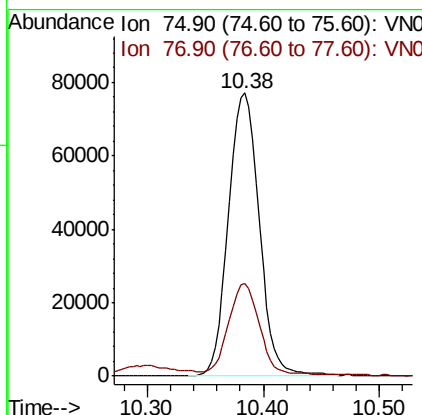
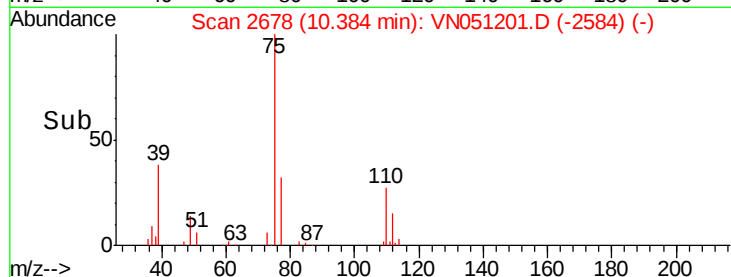
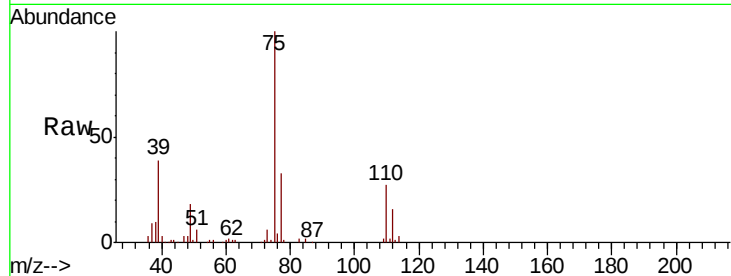
#53
 t-1,3-Dichloropropene
 Concen: 16.96 ug/l
 RT: 10.38 min Scan# 2678
 Delta R.T. 0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBS03

Tot Ion: 75 Resp: 142031
 Ion Ratio Lower Upper
 75 100
 77 32.3 25.3 37.9

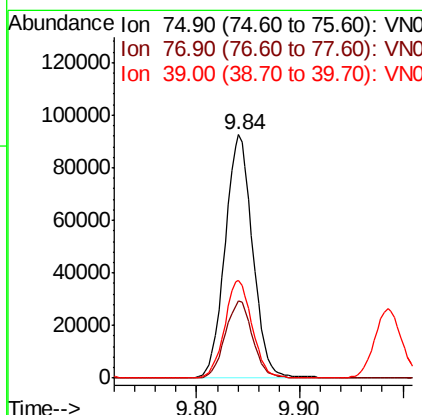
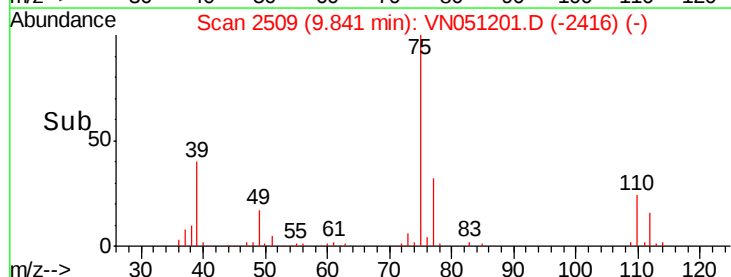
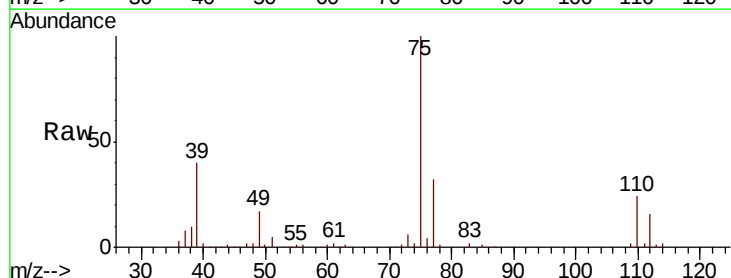
Manual Integrations
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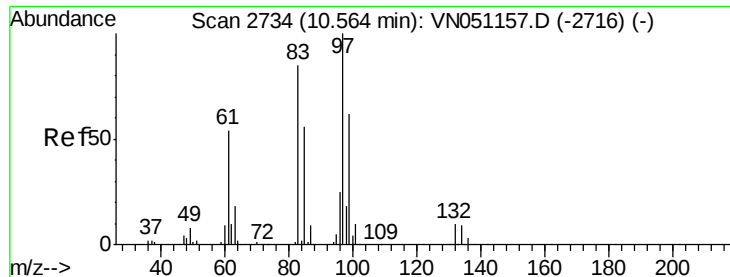
MMDadoda
 9/17/2018 1:26:20 PM



#54
 cis-1,3-Dichloropropene
 Concen: 17.59 ug/l
 RT: 9.84 min Scan# 2509
 Delta R.T. -0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Tgt Ion: 75 Resp: 172723
 Ion Ratio Lower Upper
 75 100
 77 31.8 25.7 38.5
 39 40.1 31.9 47.9





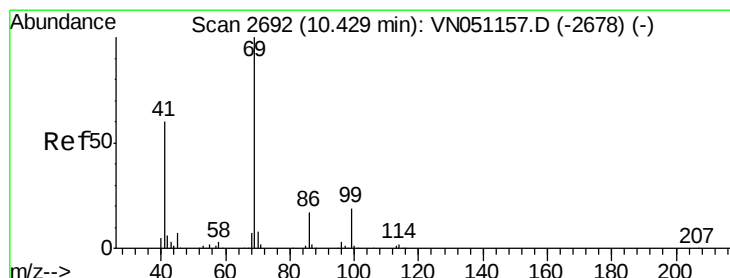
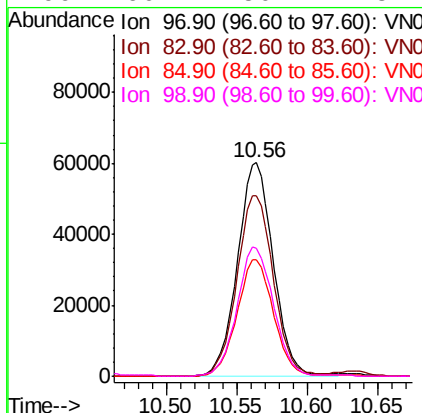
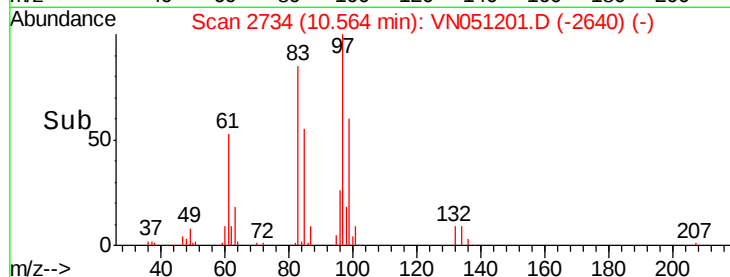
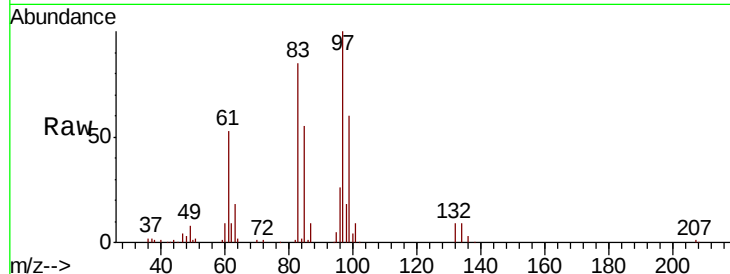
#55
 1,1,2-Trichloroethane
 Concen: 18.52 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBS03

Tot Ion:	97	Resp:	107079
Ion	Ratio	Lower	Upper
97	100		
83	84.8	68.2	102.2
85	54.7	44.8	67.2
99	60.1	50.2	75.4

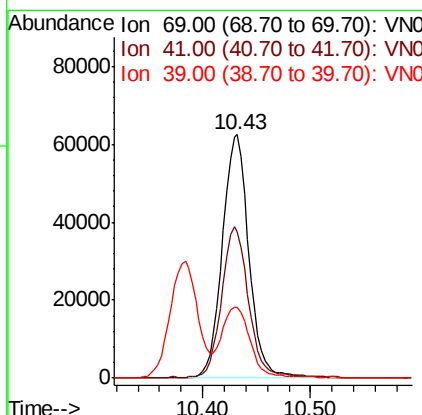
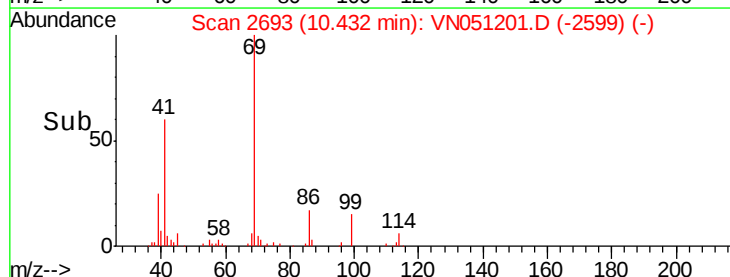
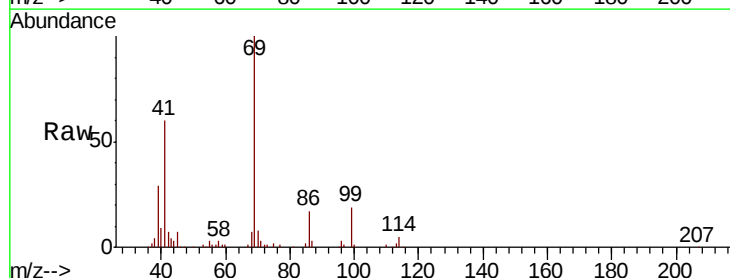
Manual Integrations
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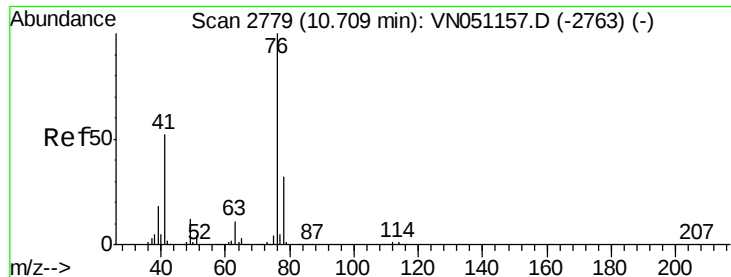
MMDadoda
 9/17/2018 1:26:20 PM



#56
 Ethyl methacrylate
 Concen: 15.60 ug/l
 RT: 10.43 min Scan# 2693
 Delta R.T. 0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Tgt Ion:	69	Resp:	107300
Ion	Ratio	Lower	Upper
69	100		
41	61.9	47.8	71.8
39	29.7	23.0	34.4





#57

1,3-Dichloropropane

Concen: 18.02 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

ClientSampled :

VN0914WBS03

Tot Ion: 76 Resp: 172785

Ion Ratio Lower Upper

76 100

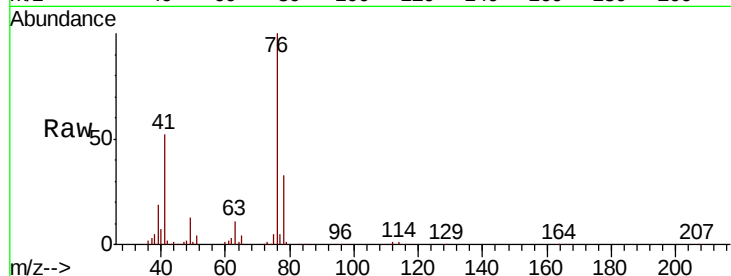
78 32.1 26.1 39.1

Manual Integrations

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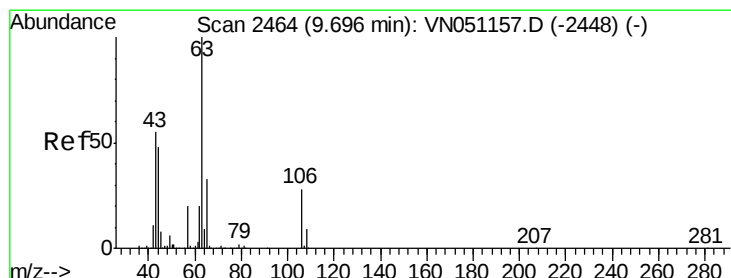
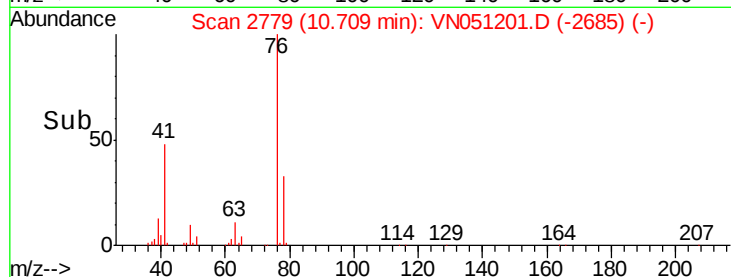
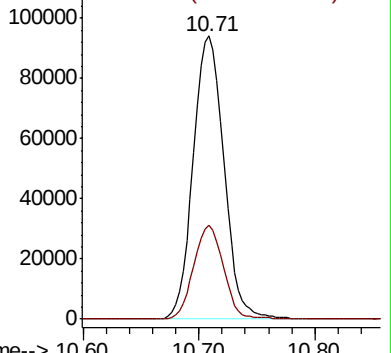
MMDadoda

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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: 80.54 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051201.D

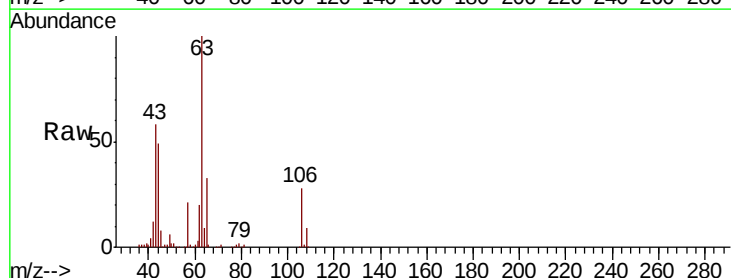
Acq: 14 Sep 2018 20:31

Tgt Ion: 63 Resp: 226876

Ion Ratio Lower Upper

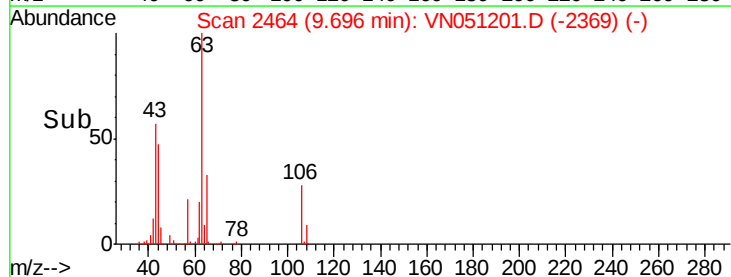
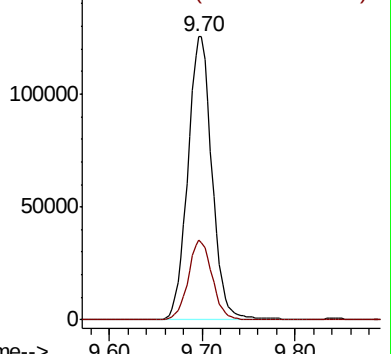
63 100

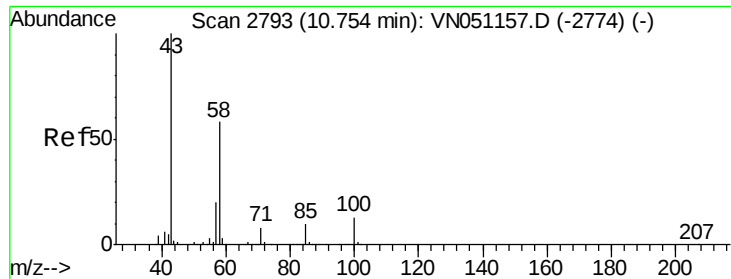
106 27.7 22.5 33.7



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





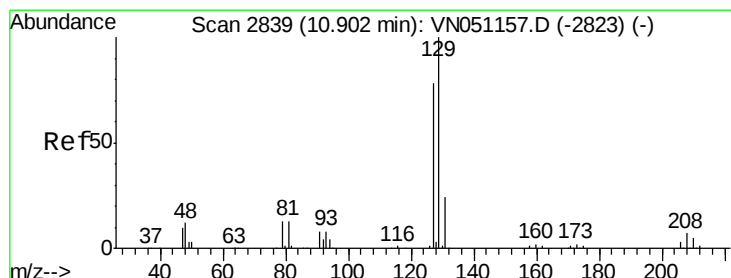
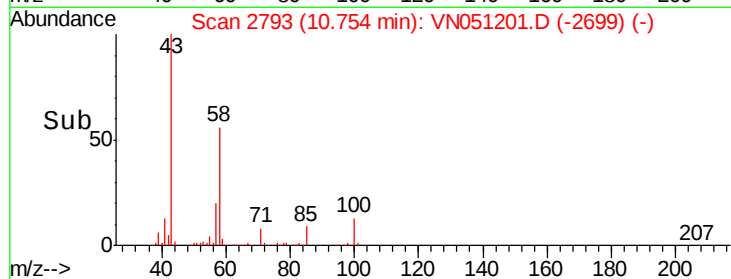
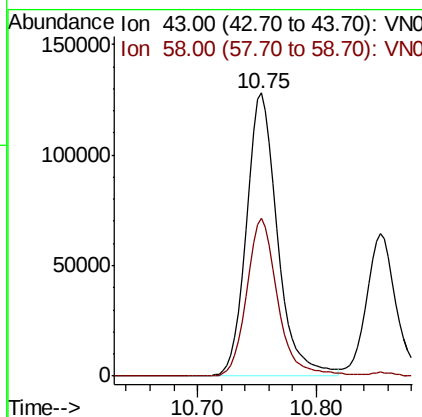
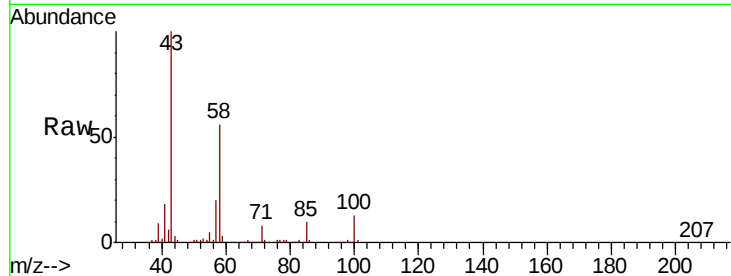
#59
2-Hexanone
Concen: 69.79 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	43	Resp	231698
Ion Ratio	43	100	
Lower	58	55.5	29.3
Upper			88.0

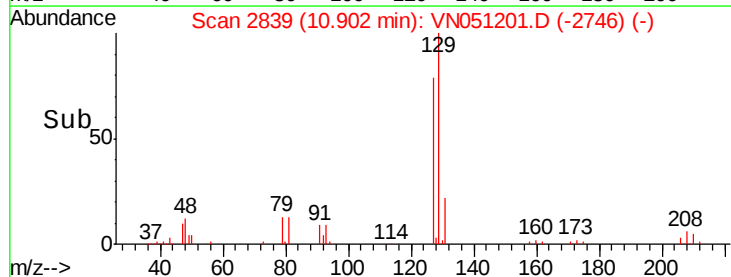
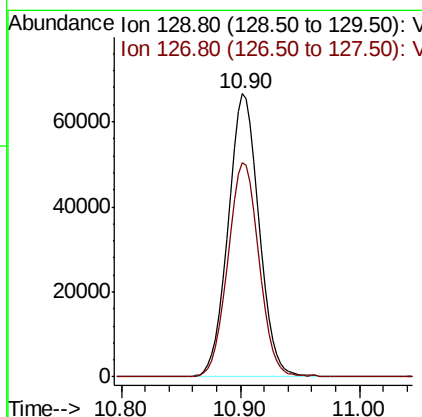
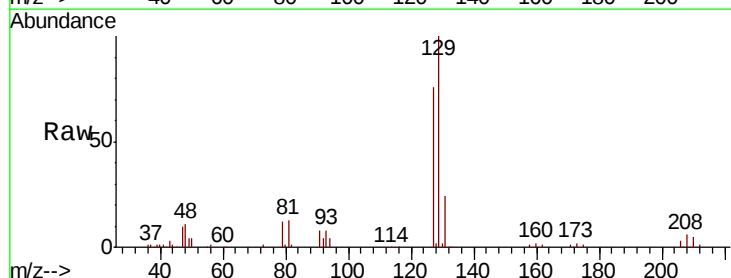
Manual Integrations
APPROVED

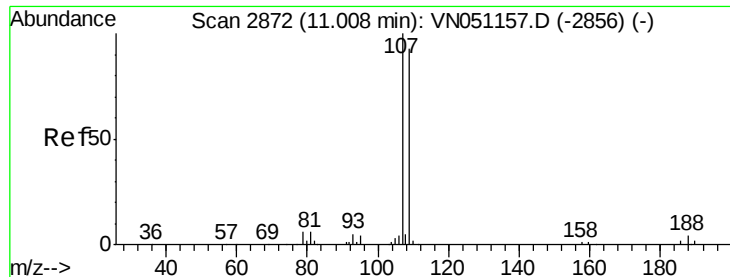
MMDadoda
9/17/2018 1:26:20 PM



#60
Dibromochloromethane
Concen: 18.35 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	129	Resp	119605
Ion Ratio	129	100	
Lower	127	76.5	38.5
Upper			115.5





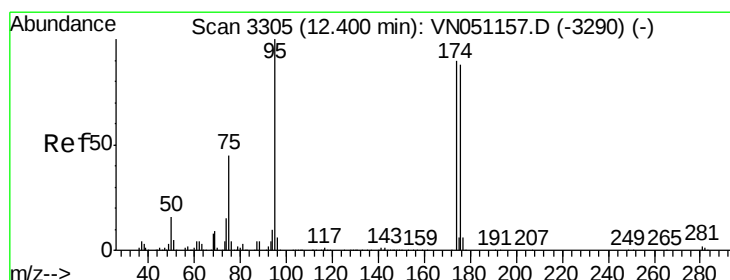
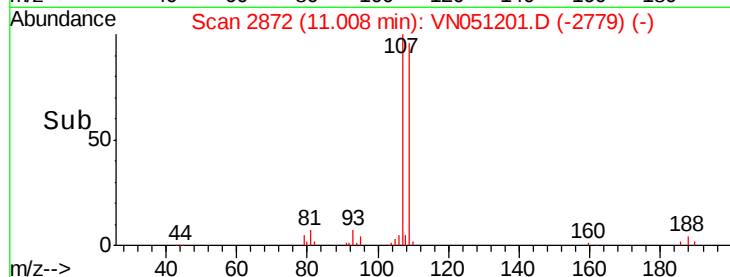
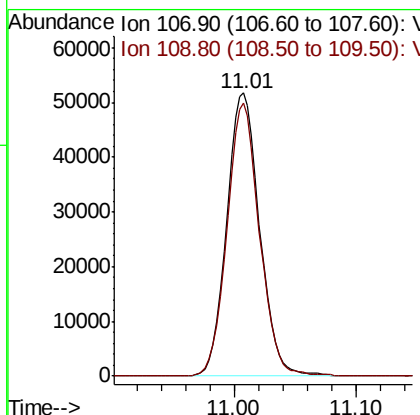
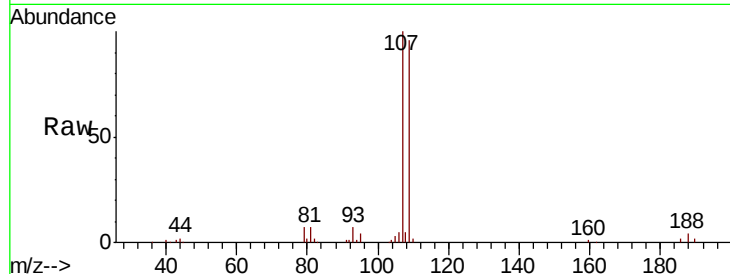
#61
 1,2-Dibromoethane
 Concen: 17.18 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. -0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBS03

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.0	76.0	114.0

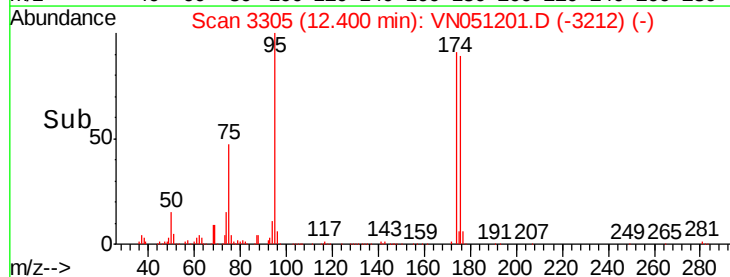
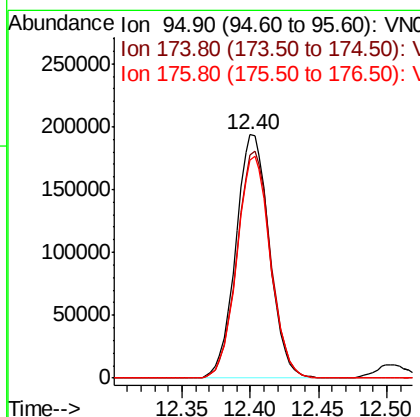
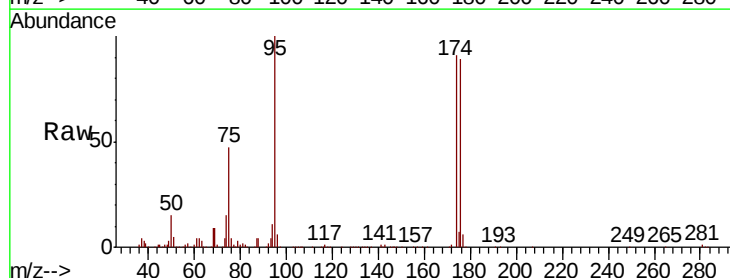
Manual Integrations
 APPROVED

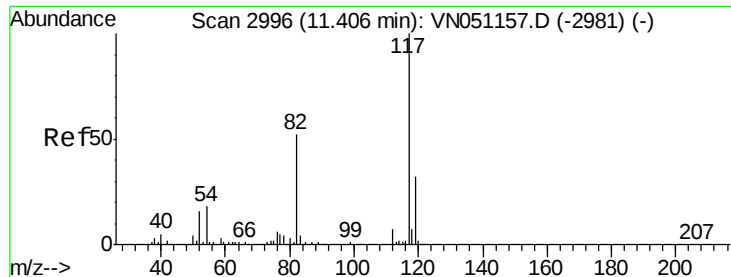
MMDadoda
 9/17/2018 1:26:20 PM



#62
 4-Bromofluorobenzene
 Concen: 44.33 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
95	100		
174	93.4	0.0	184.8
176	90.9	0.0	178.6





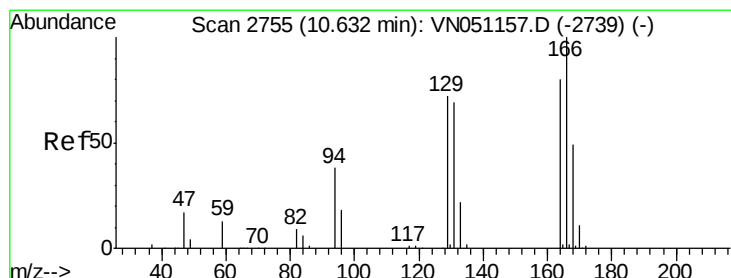
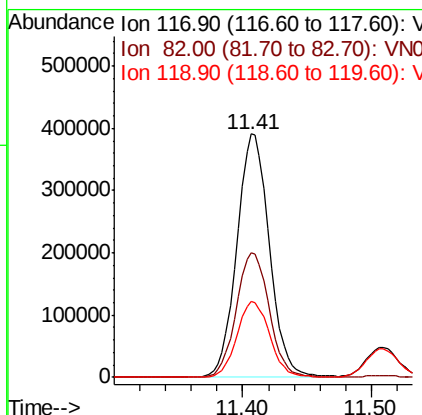
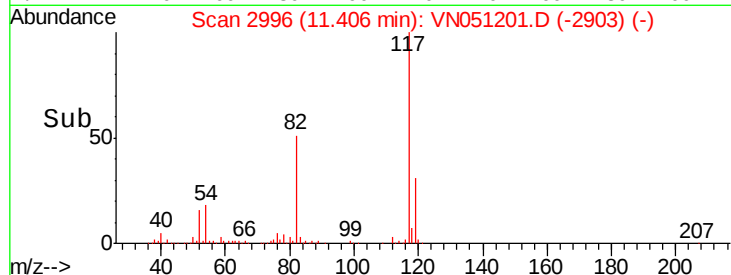
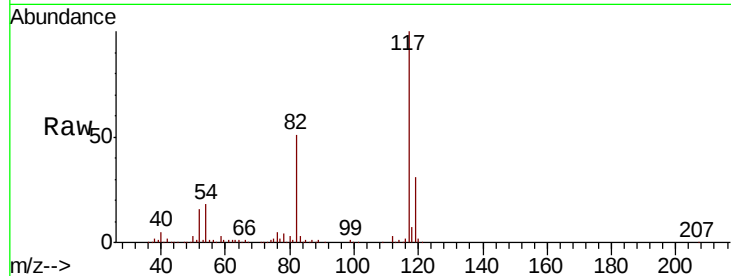
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Lower	Upper
117	100		
82	51.4	41.8	62.6
119	31.1	26.2	39.2

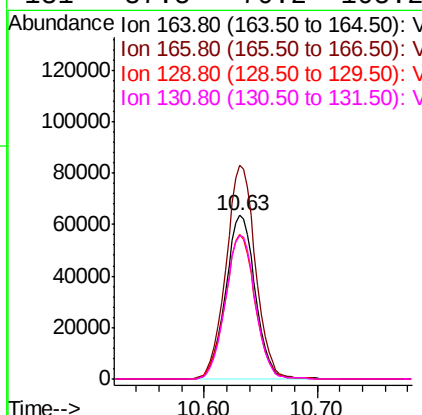
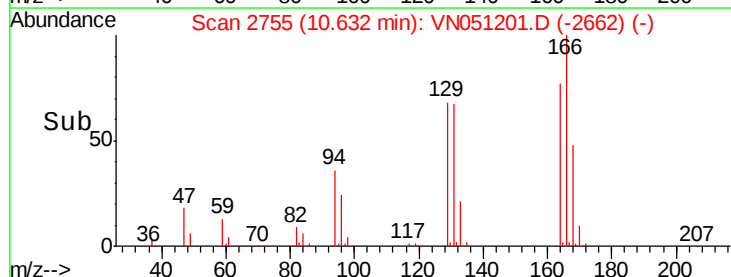
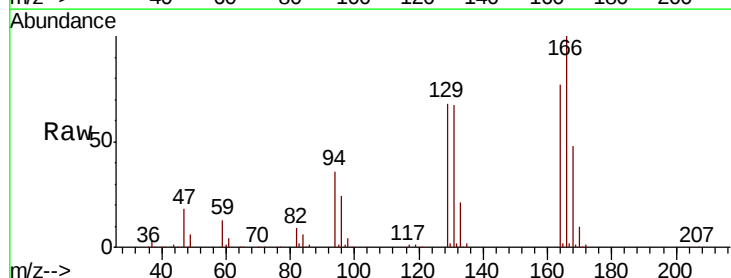
Manual Integrations
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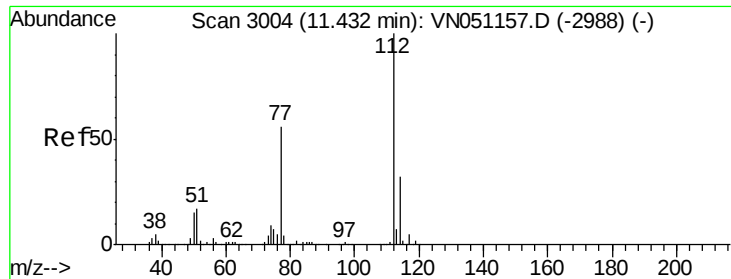
MMDadoda
9/17/2018 1:26:20 PM



#64
Tetrachloroethene
Concen: 18.50 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
164	100		
166	130.4	101.3	151.9
129	88.4	72.2	108.2
131	87.5	70.2	105.2





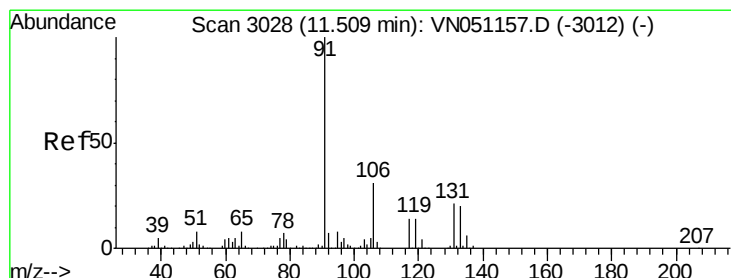
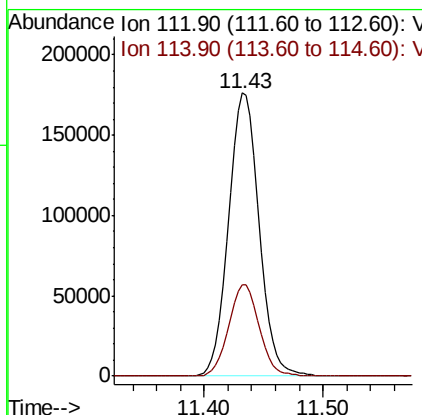
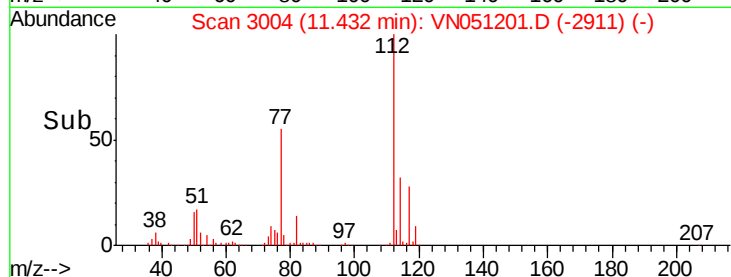
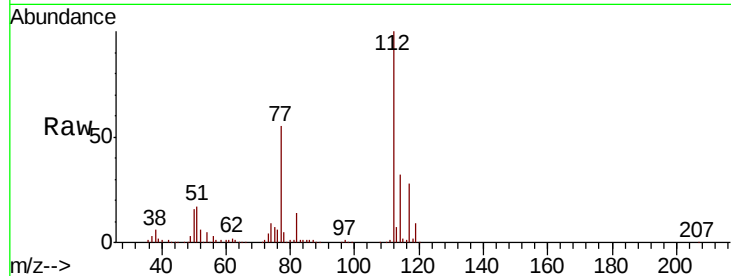
#65
Chlorobenzene
Concen: 18.12 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.2	25.8	38.6

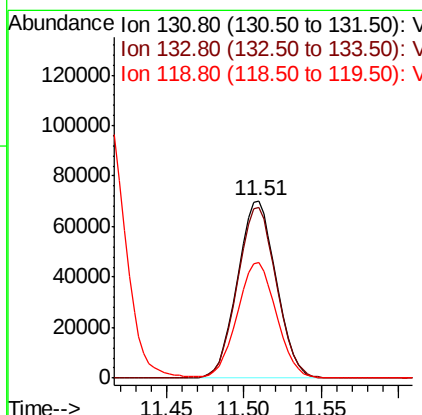
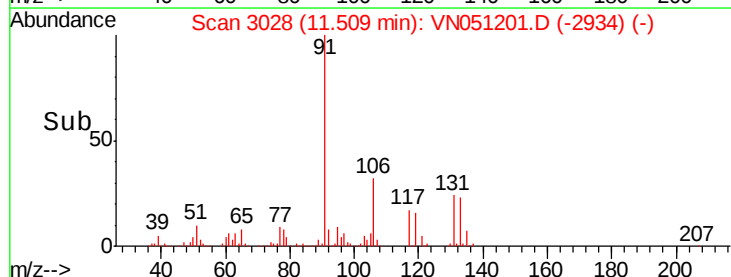
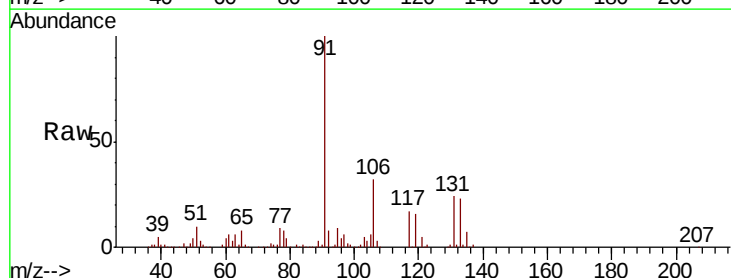
Manual Integrations
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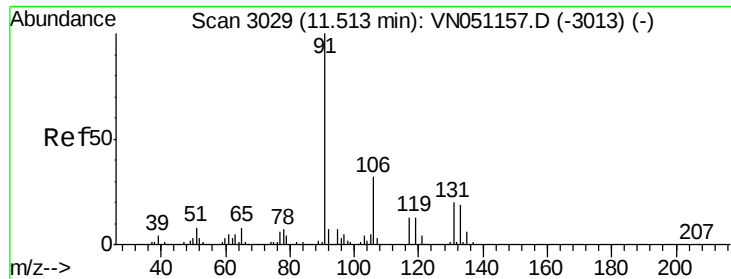
MMDadoda
9/17/2018 1:26:20 PM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.68 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
131	100		
133	97.1	47.5	142.6
119	65.9	33.2	99.6





#67

Ethyl Benzene

Concen: 17.71 ug/l

RT: 11.51 min Scan# 3029

Delta R.T. 0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

ClientSampled :

VN0914WBS03

Tot Ion: 91 Resp: 496274

Ion Ratio Lower Upper

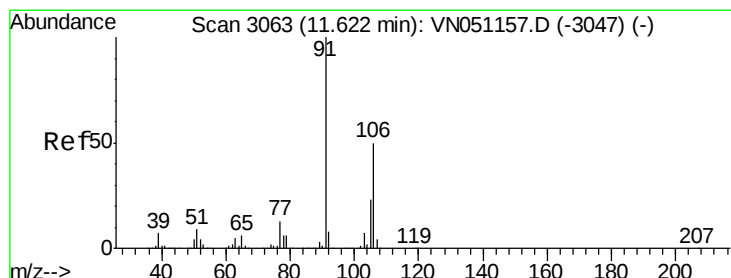
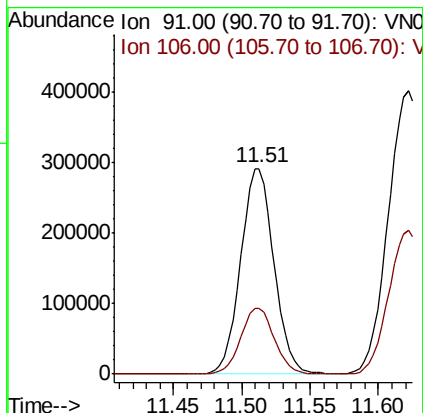
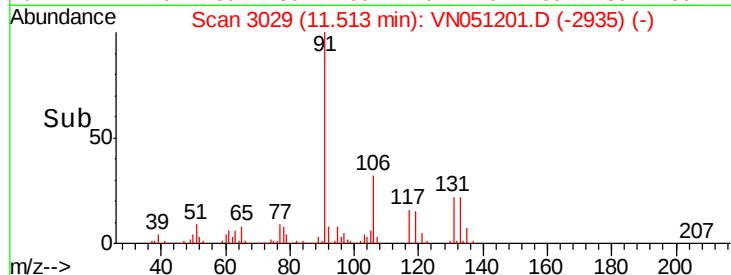
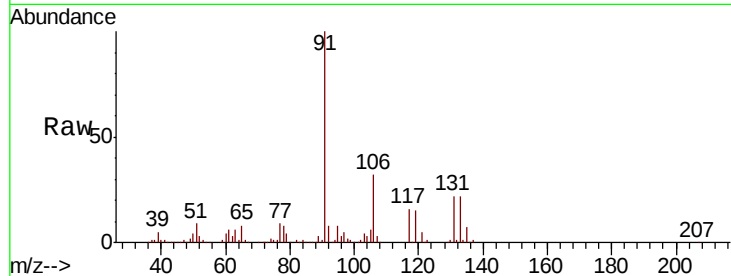
91 100

106 32.0 25.4 38.2

Manual Integrations
APPROVED

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9/17/2018 1:26:20 PM



#68

m/p-Xylenes

Concen: 36.84 ug/l

RT: 11.62 min Scan# 3063

Delta R.T. -0.00 min

Lab File: VN051201.D

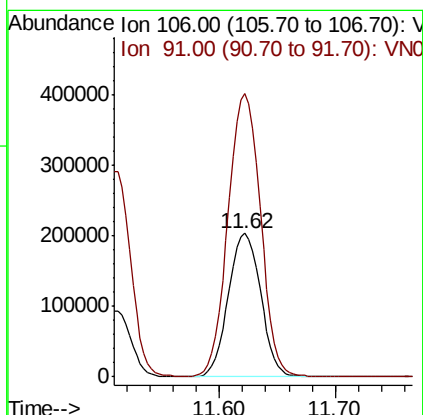
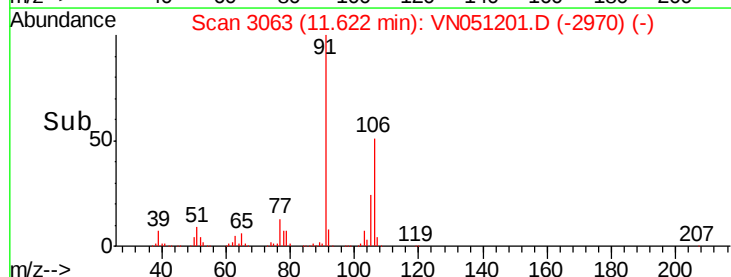
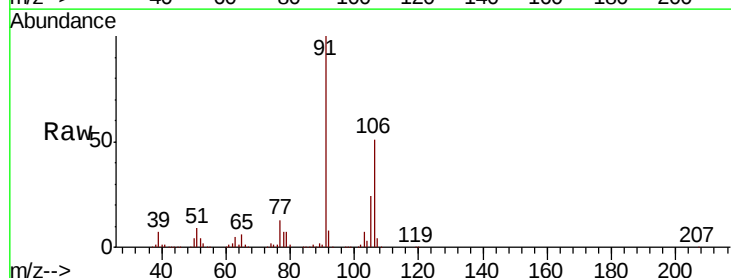
Acq: 14 Sep 2018 20:31

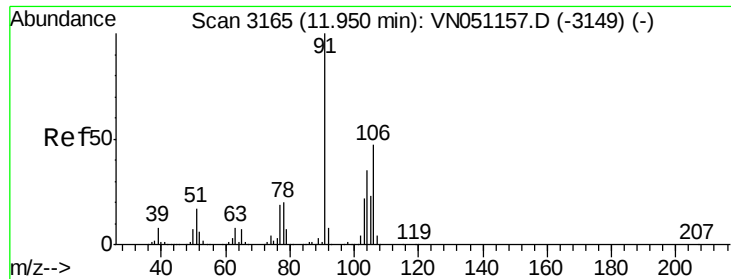
Tgt Ion: 106 Resp: 396794

Ion Ratio Lower Upper

106 100

91 197.7 159.8 239.6





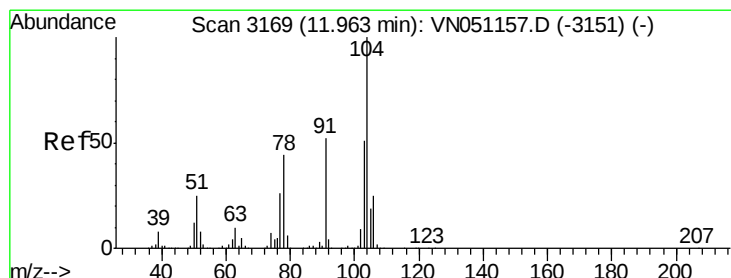
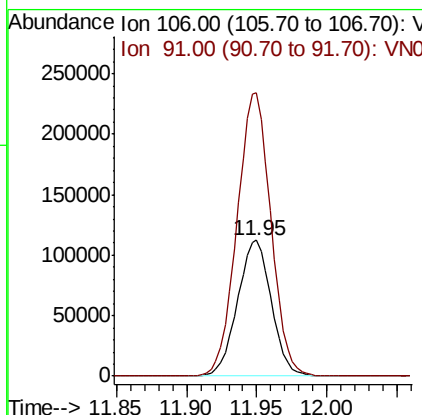
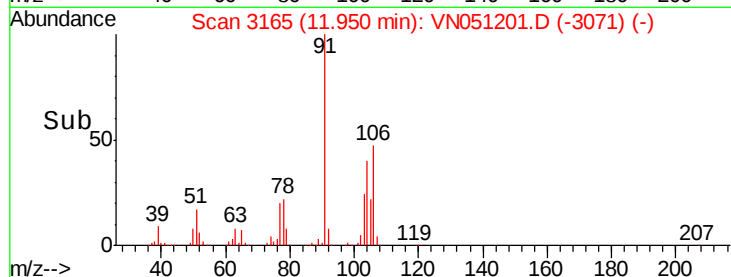
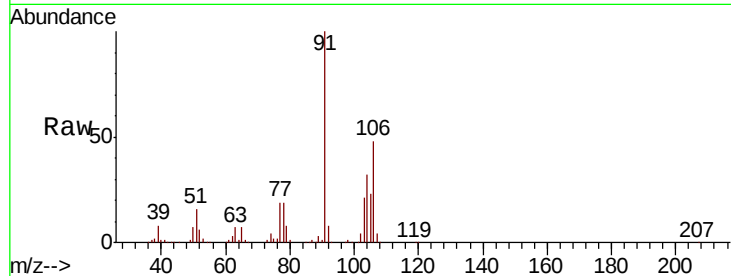
#69
o-Xylene
Concen: 18.12 ug/l
RT: 11.95 min Scan# 3165
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampled :
VN0914WBS03

Tot Ion	Ion	Ratio	Resp	Lower	Upper
106	106	100	188946		
91	91	209.0	105.1	315.1	

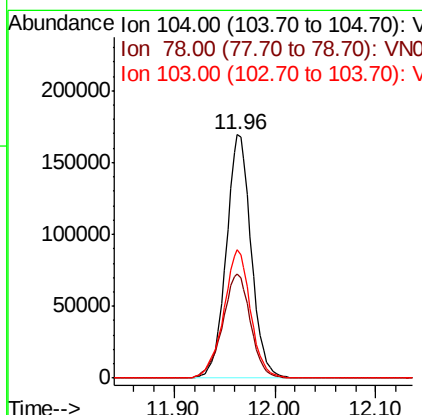
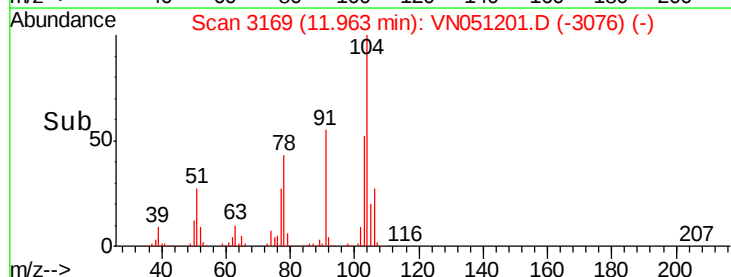
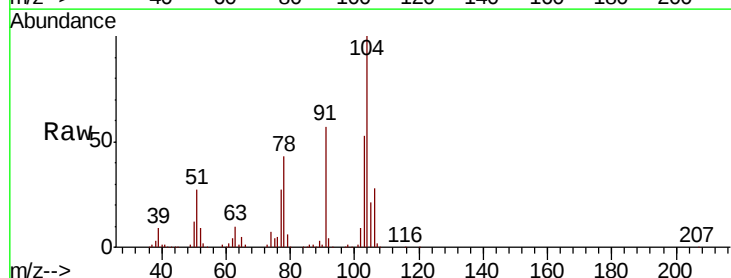
Manual Integrations
APPROVED

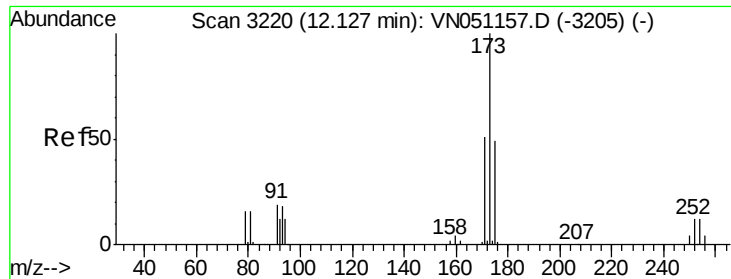
MMDadoda
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#70
Styrene
Concen: 18.07 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
104	104	100	292306		
78	78	47.7	37.7	56.5	
103	103	56.7	44.6	67.0	





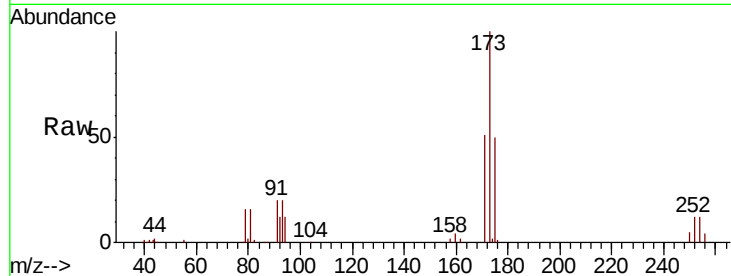
#71
Bromoform
Concen: 17.35 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Lower	Upper
173	100		
175	50.5	24.3	72.9
254	0.0	0.0	0.0

Manual Integrations
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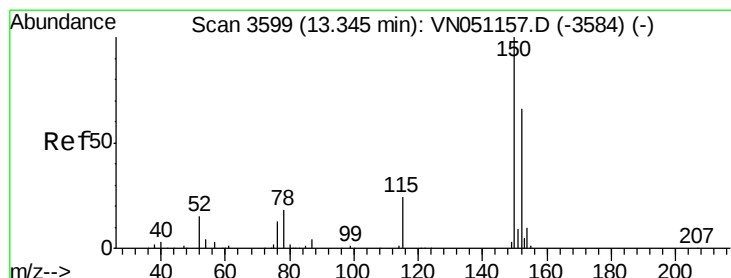
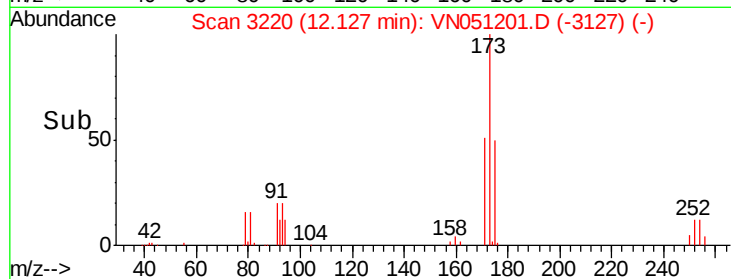
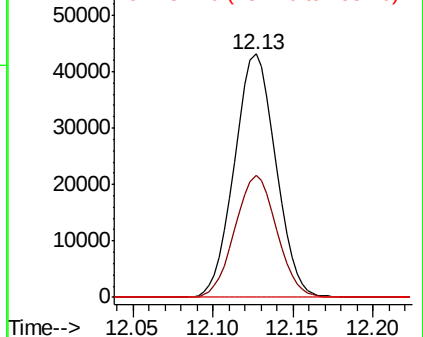


Abundance

Ion 172.70 (172.40 to 173.40): V

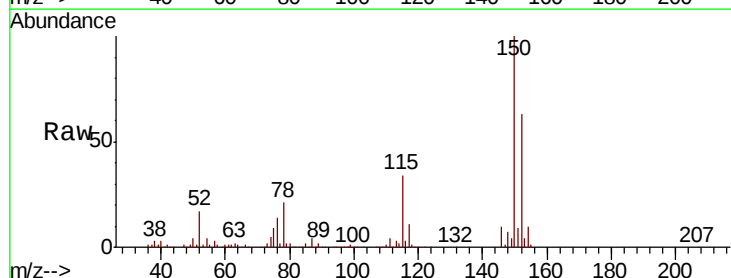
Ion 174.70 (174.40 to 175.40): V

Ion 254.40 (254.10 to 255.10): V



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.35 min Scan# 3599
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
152	100		
115	55.0	28.2	84.7
150	166.1	0.0	349.0

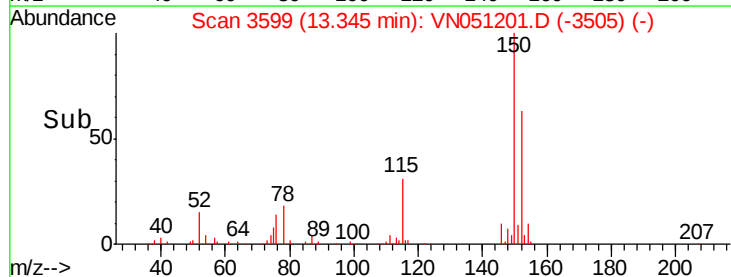
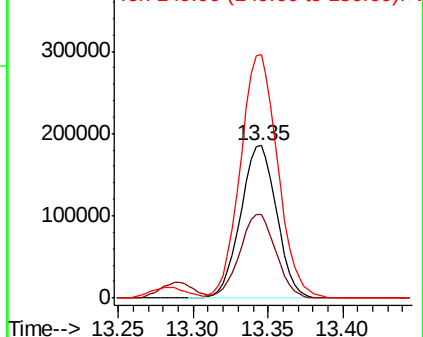


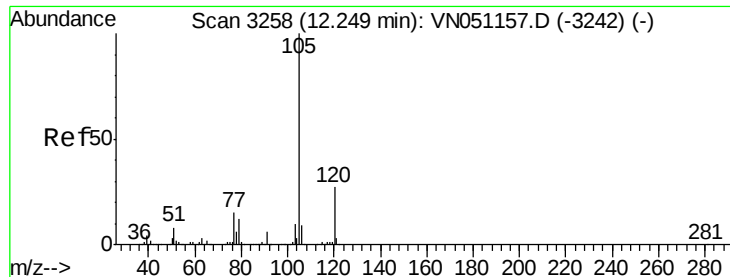
Abundance

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: 19.00 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. -0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBS03

Tot Ion: 105 Resp: 495314

Ion Ratio Lower Upper

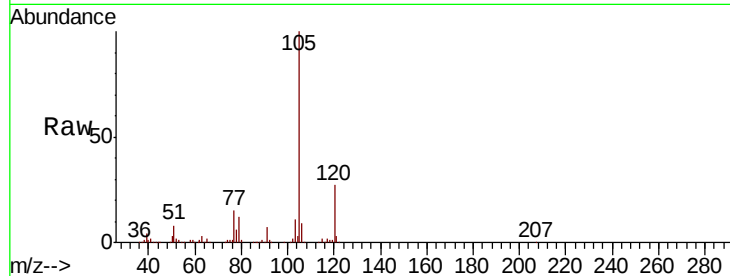
105 100

120 26.8 13.6 40.7

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V

12.25

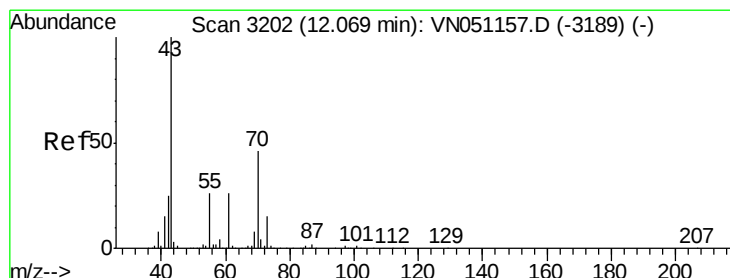
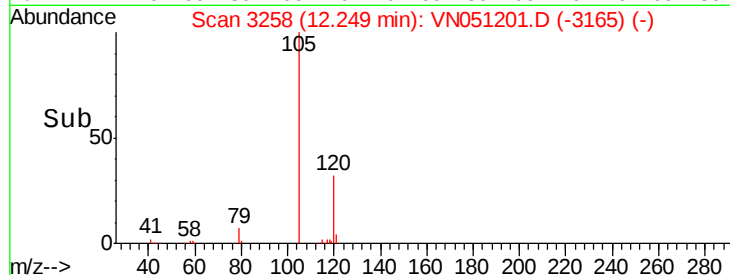
300000

200000

100000

0

Time--> 12.15 12.20 12.25 12.30



#74

N-ethyl acetate

Concen: 14.45 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. -0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Tgt Ion: 43 Resp: 94758

Ion Ratio Lower Upper

43 100

70 46.6 37.0 55.4

55 29.5 21.3 31.9

61 25.2 20.7 31.1

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

12.07

80000

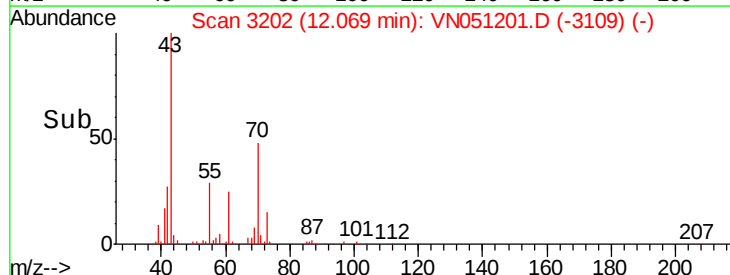
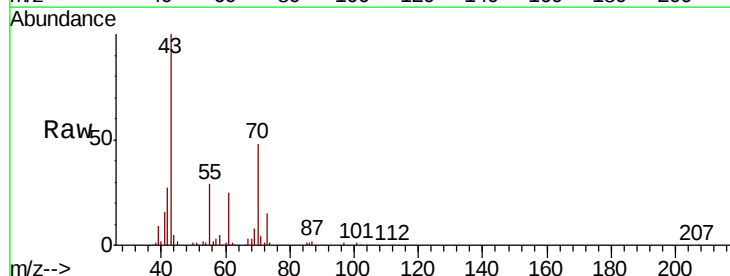
60000

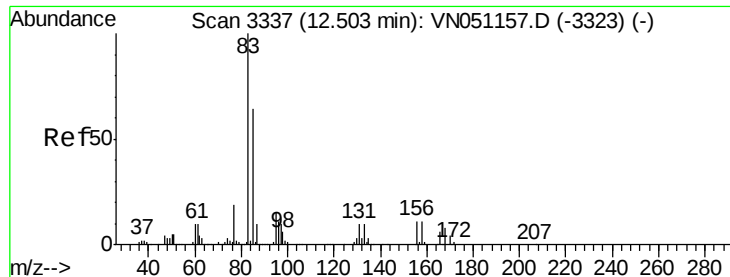
40000

20000

0

Time--> 12.00 12.10





#75

1,1,2,2-Tetrachloroethane

Concen: 19.47 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

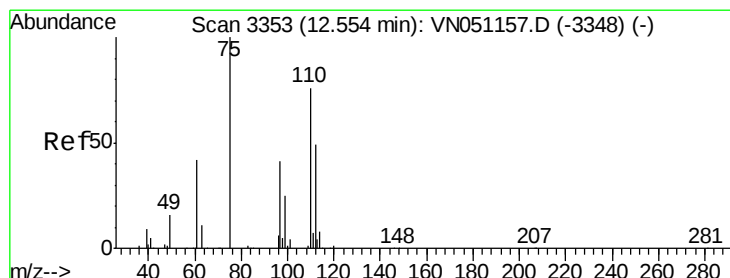
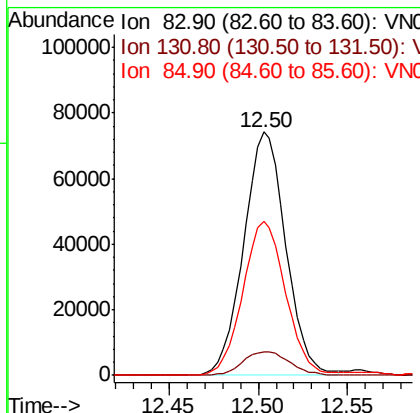
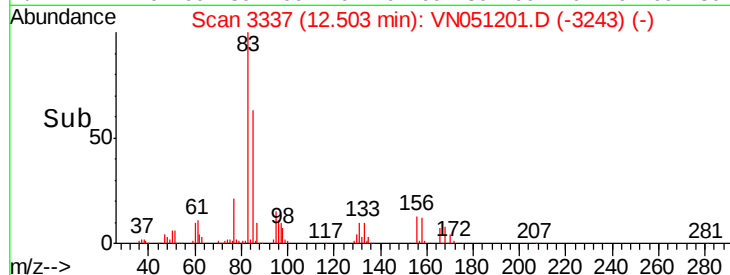
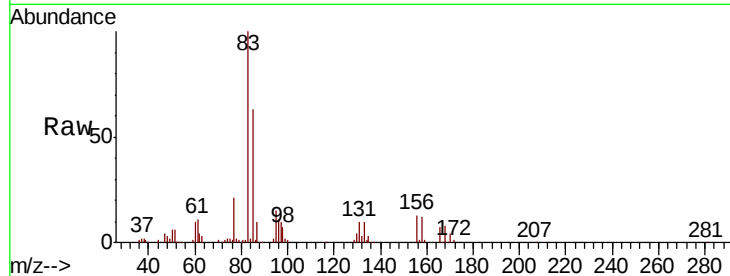
ClientSampled :

VN0914WBS03

Tot Ion:	83	Resp:	122256
Ion Ratio	Lower	Upper	
83	100		
131	10.8	5.3	16.1
85	64.0	32.3	96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 19.87 ug/l m

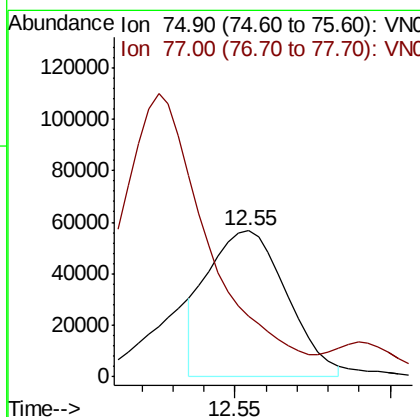
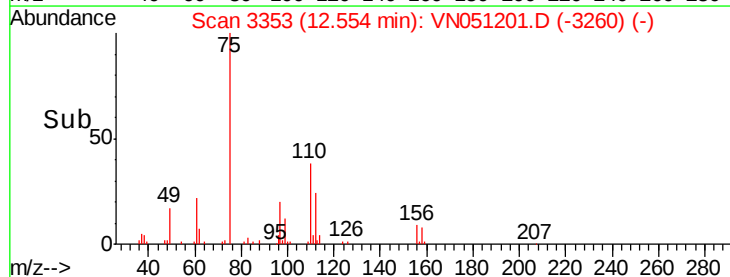
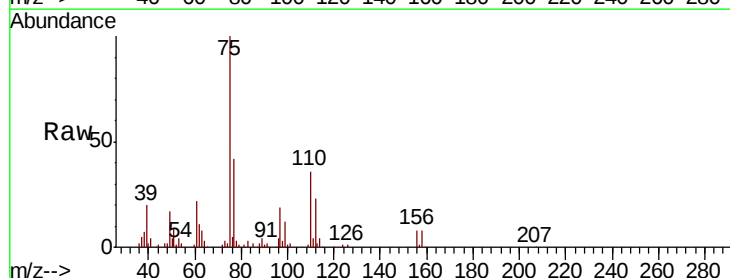
RT: 12.55 min Scan# 3353

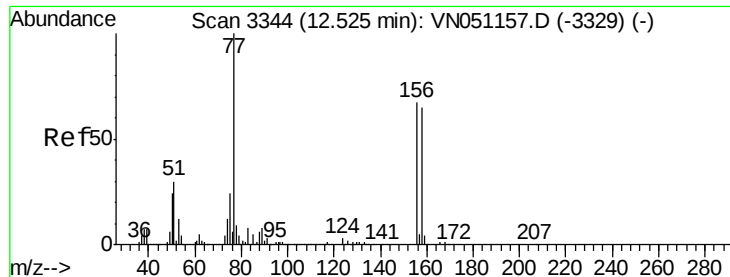
Delta R.T. 0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Tgt Ion:	75	Resp:	100037
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





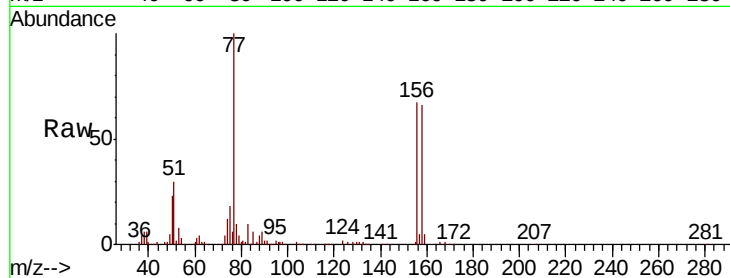
#77
Bromobenzene
Concen: 18.51 ug/l
RT: 12.53 min Scan# 3344
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

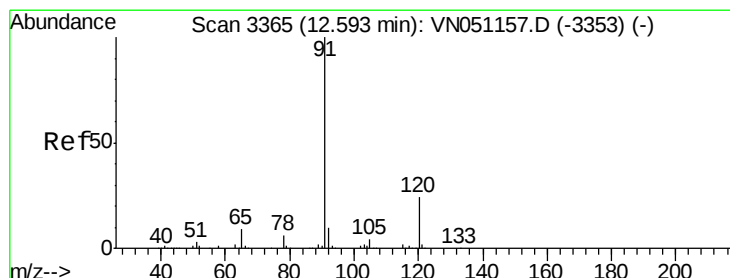
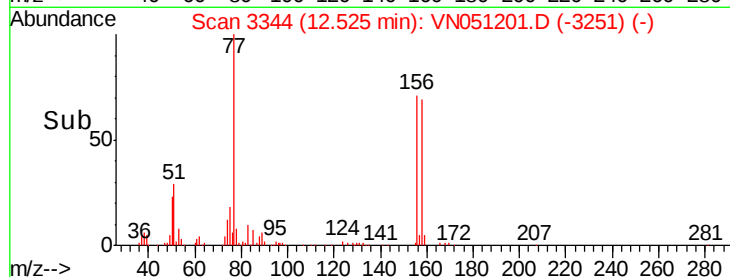
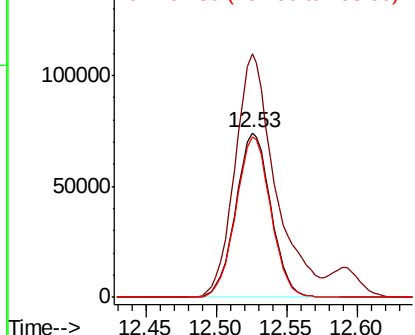
Tot Ion	Ratio	Lower	Upper
156	100		
77	169.1	87.5	262.6
158	96.7	49.0	147.2

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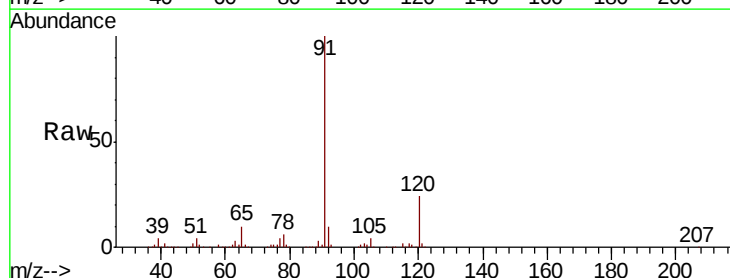


Abundance Ion 155.80 (155.50 to 156.50): V
Ion 77.00 (76.70 to 77.70): VN
Ion 157.80 (157.50 to 158.50): V

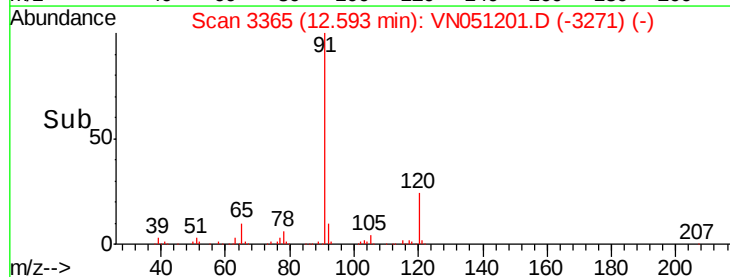
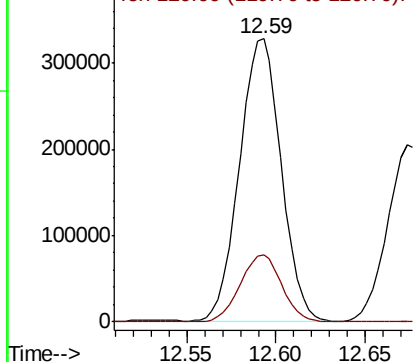


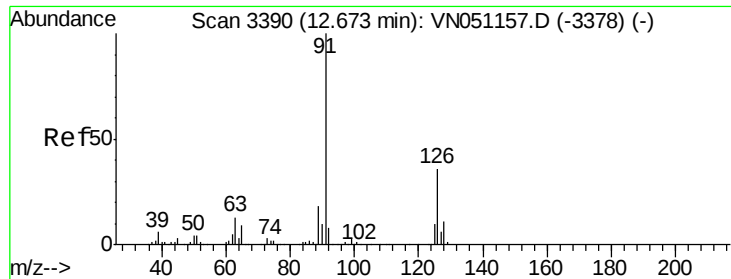
#78
n-propylbenzene
Concen: 18.62 ug/l
RT: 12.59 min Scan# 3365
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.7	12.0	36.0



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 18.86 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. -0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBS03

Tot Ion: 91 Resp: 337624

Ion Ratio Lower Upper

91 100

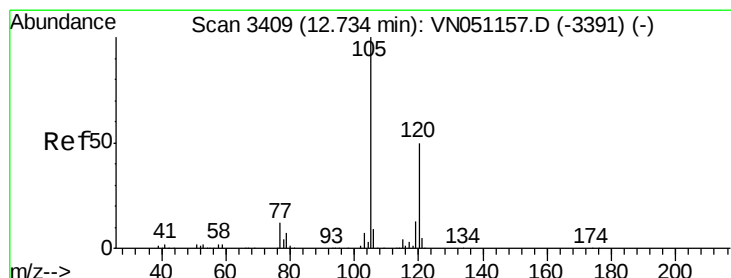
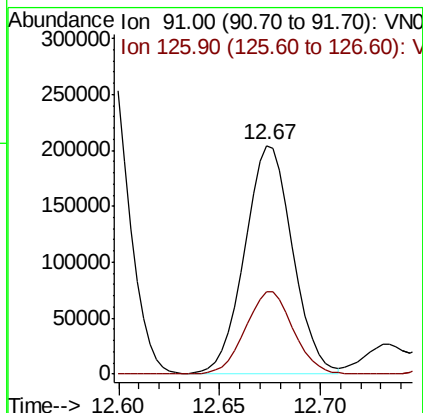
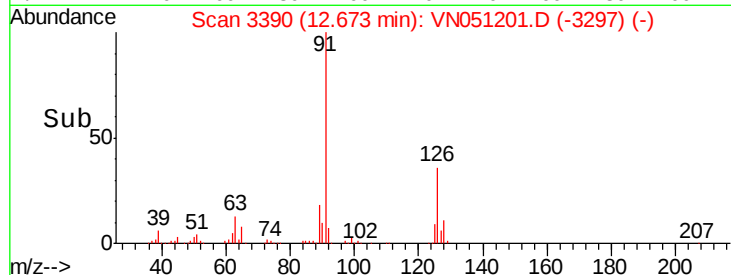
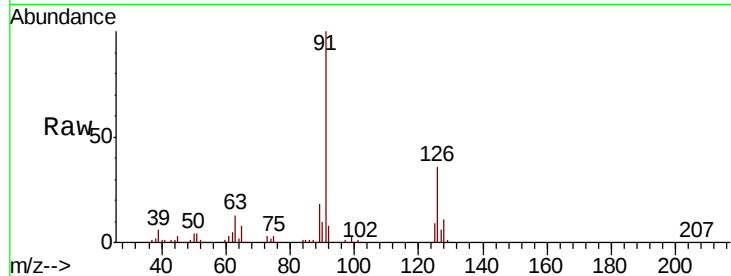
126 36.4 17.9 53.7

Manual Integrations

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#80

1,3,5-Trimethylbenzene

Concen: 19.23 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. -0.00 min

Lab File: VN051201.D

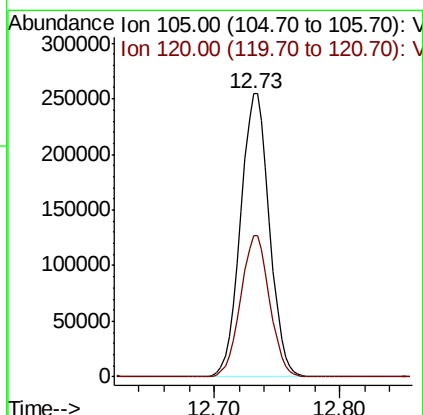
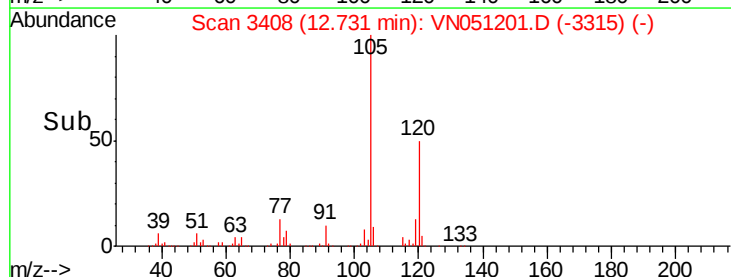
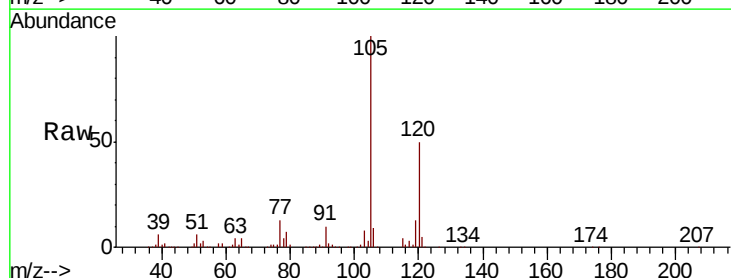
Acq: 14 Sep 2018 20:31

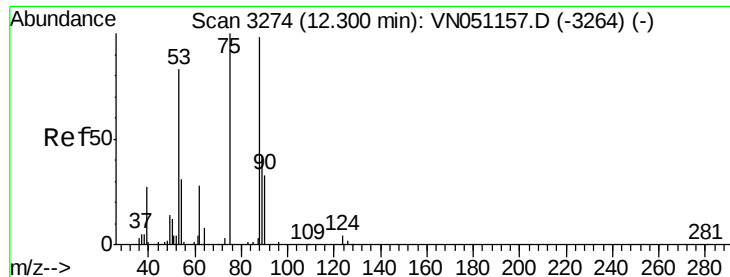
Tgt Ion: 105 Resp: 405300

Ion Ratio Lower Upper

105 100

120 50.3 24.9 74.6





#81

trans-1,4-Dichloro-2-butene

Concen: 15.32 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. -0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

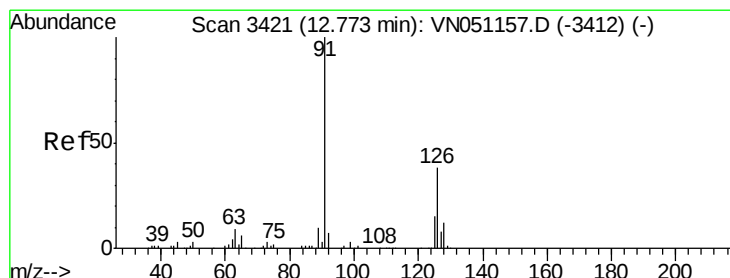
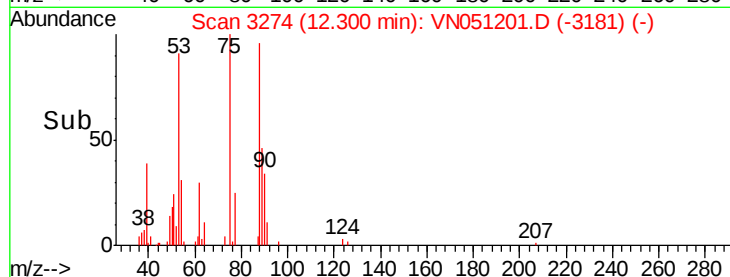
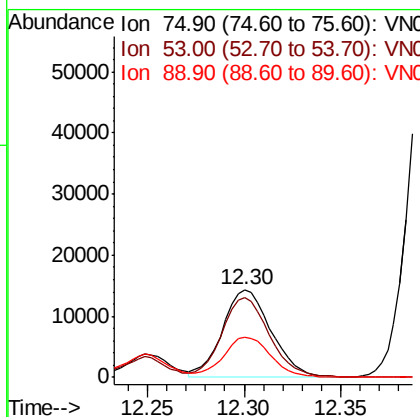
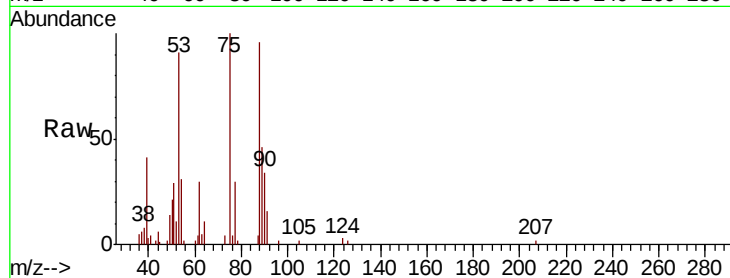
ClientSampleId :

VN0914WBS03

Tot Ion:	75	Resp:	25070
Ion	Ratio	Lower	Upper
75	100		
53	89.3	67.8	101.8
89	43.9	36.0	54.0

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#82

4-Chlorotoluene

Concen: 18.19 ug/l

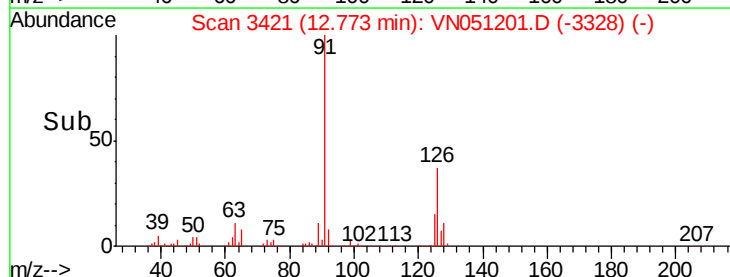
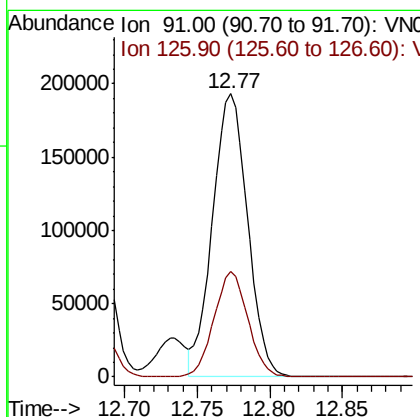
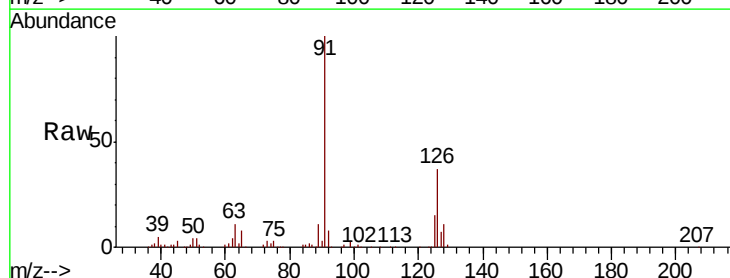
RT: 12.77 min Scan# 3421

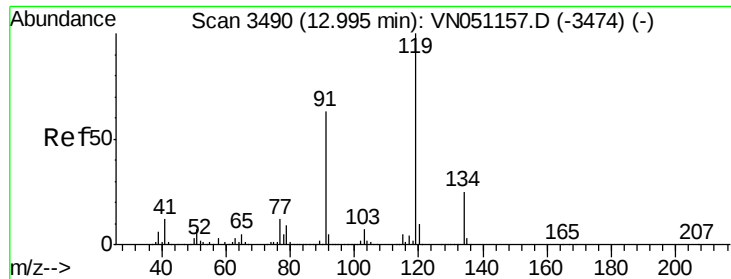
Delta R.T. -0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Tgt Ion:	91	Resp:	323245
Ion	Ratio	Lower	Upper
91	100		
126	35.9	17.6	52.8





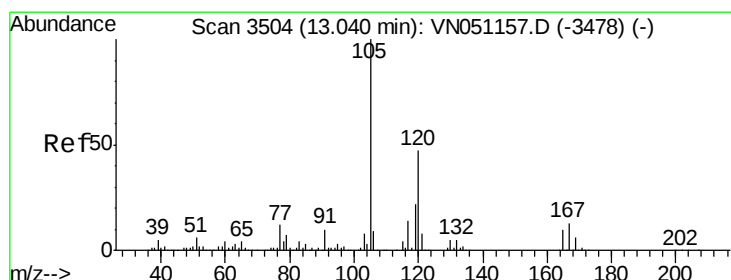
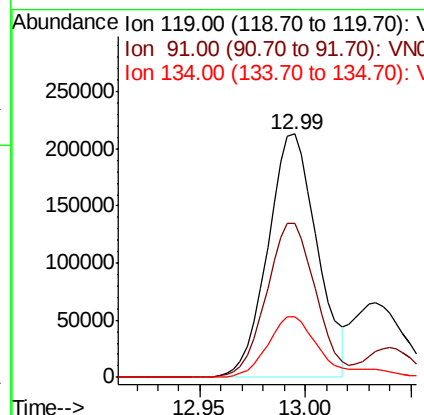
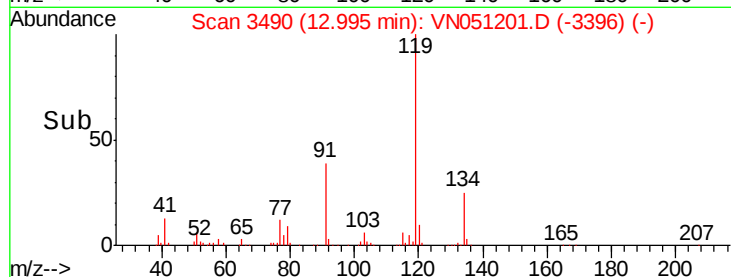
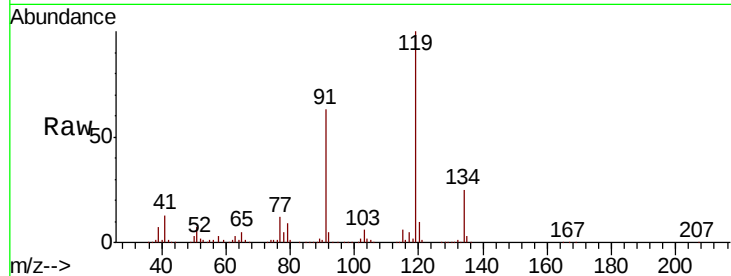
#83
tert-Butylbenzene
Concen: 18.61 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Resp	Lower	Upper
119	100	346241		
91	63.2	30.8	92.3	
134	27.6	13.2	39.6	

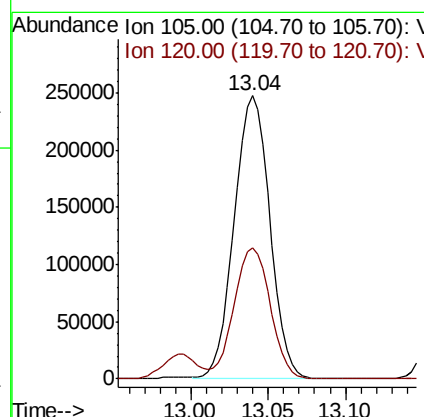
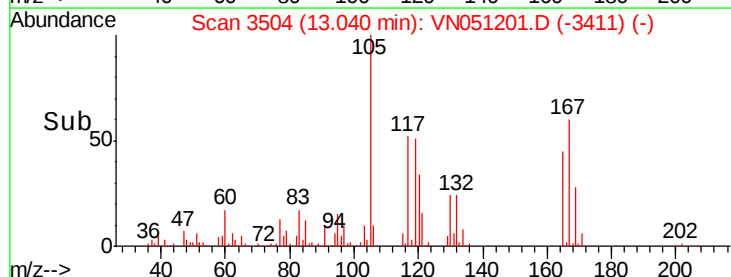
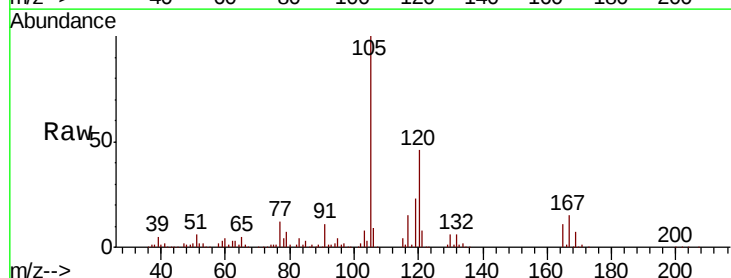
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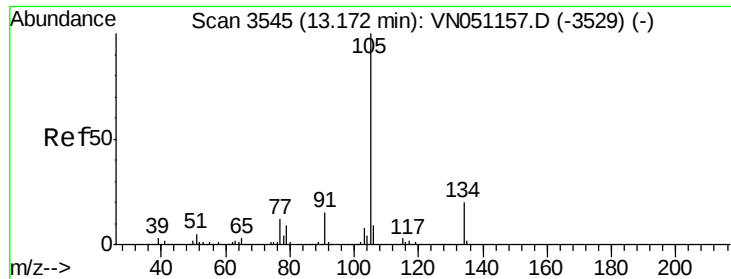
MMDadoda
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#84
1,2,4-Trimethylbenzene
Concen: 19.09 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	395571		
120	47.2	23.3	69.8	





#85

sec-Butylbenzene

Concen: 18.94 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. -0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

ClientSampleId :

VN0914WBS03

Tot Ion:105 Resp: 451896

Ion Ratio Lower Upper

105 100

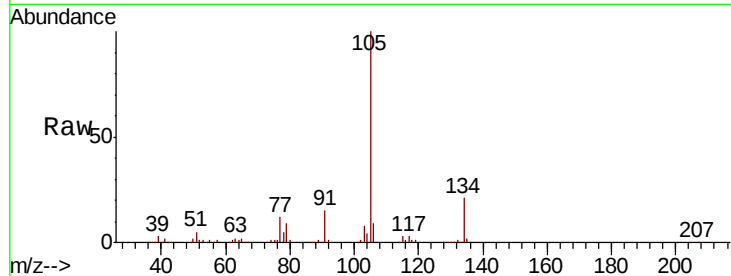
134 20.8 10.4 31.4

Manual Integrations

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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V

13.17

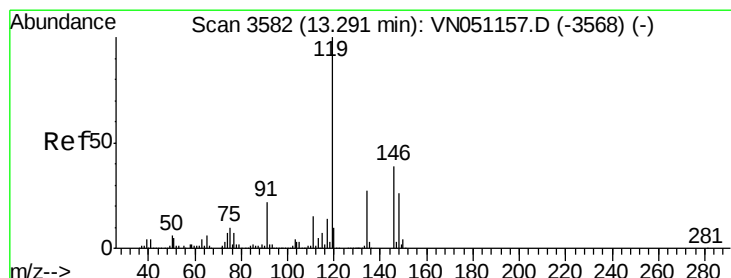
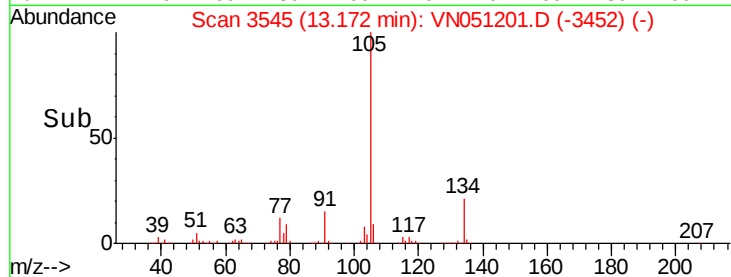
300000

200000

100000

0

Time-->



#86

p-Isopropyltoluene

Concen: 18.85 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

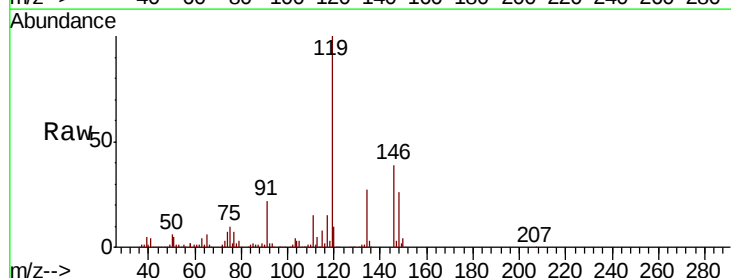
Tgt Ion:119 Resp: 381298

Ion Ratio Lower Upper

119 100

134 27.4 13.5 40.4

91 22.2 10.9 32.9



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

13.29

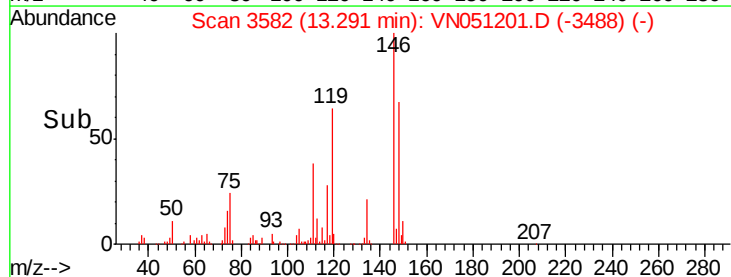
300000

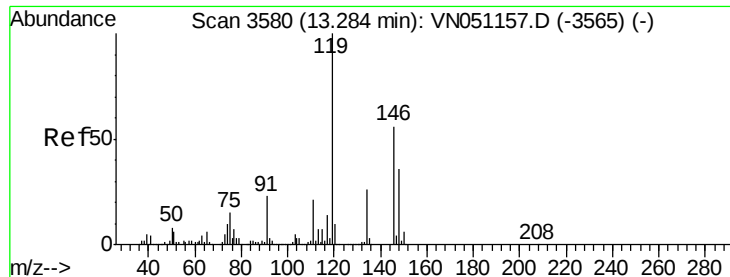
200000

100000

0

Time-->





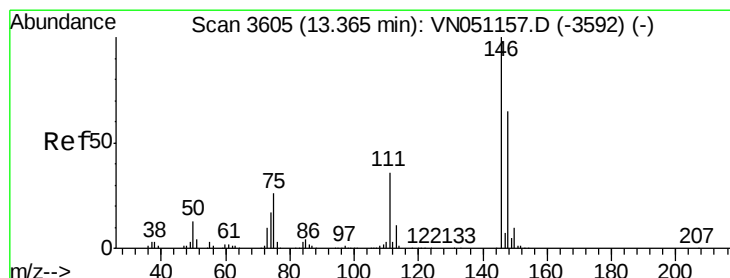
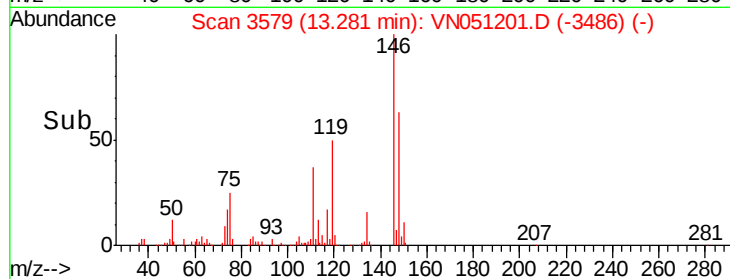
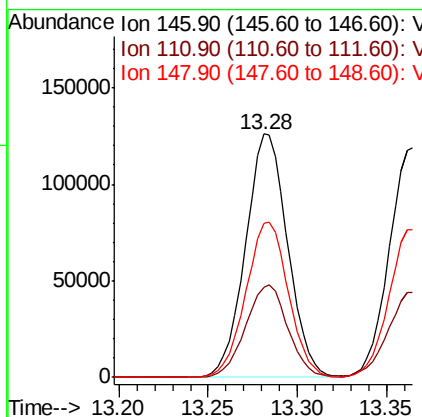
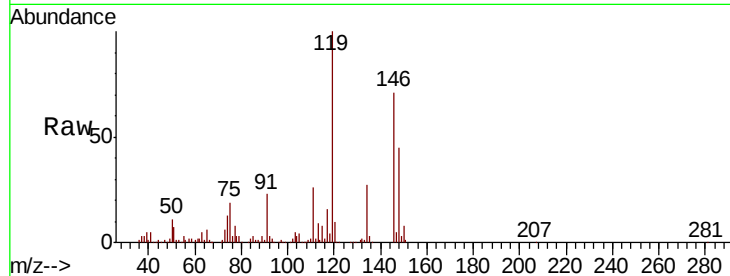
#87
 1,3-Dichlorobenzene
 Concen: 17.48 ug/l
 RT: 13.28 min Scan# 3579
 Delta R.T. -0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBS03

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.1	19.1	57.1
148	64.4	32.2	96.6

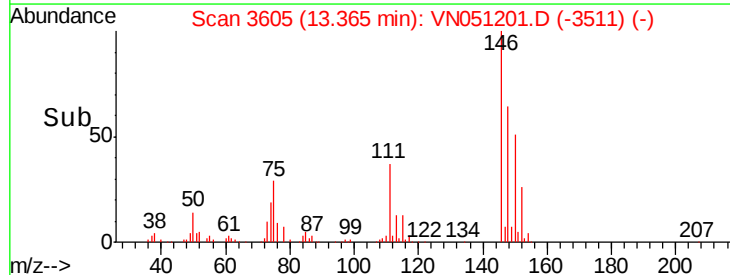
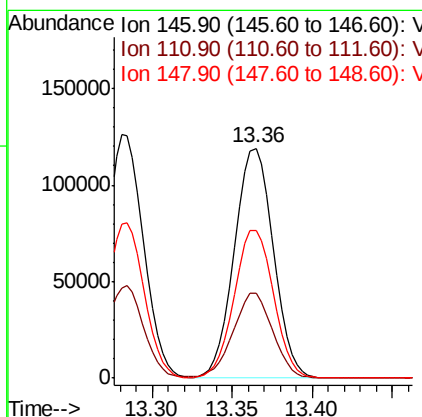
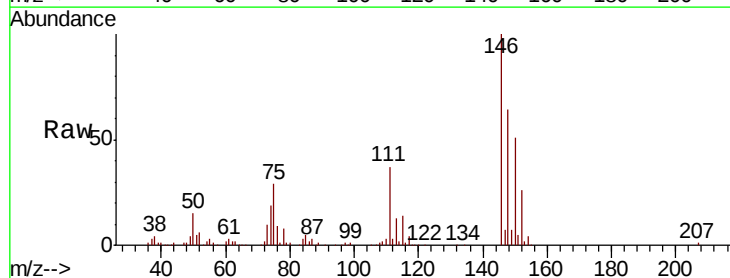
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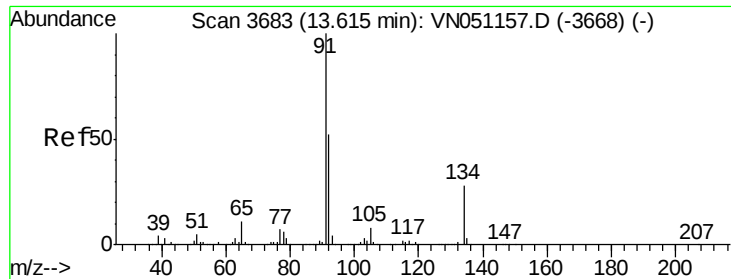
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#88
 1,4-Dichlorobenzene
 Concen: 18.17 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.5	18.4	55.0
148	65.0	32.2	96.6





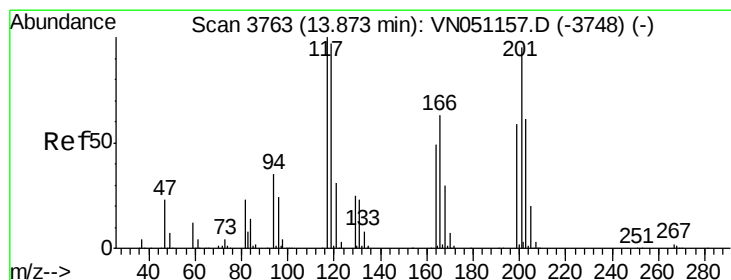
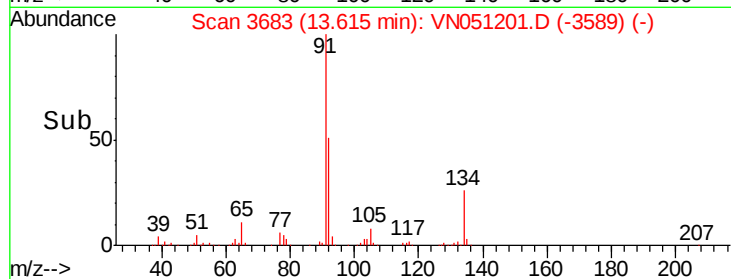
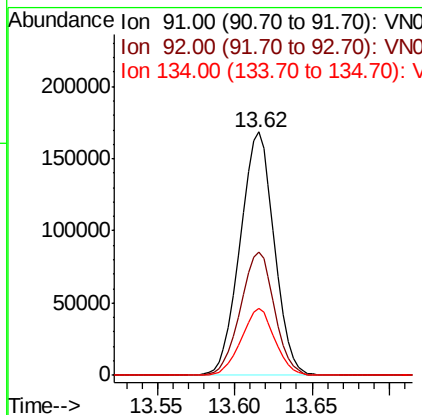
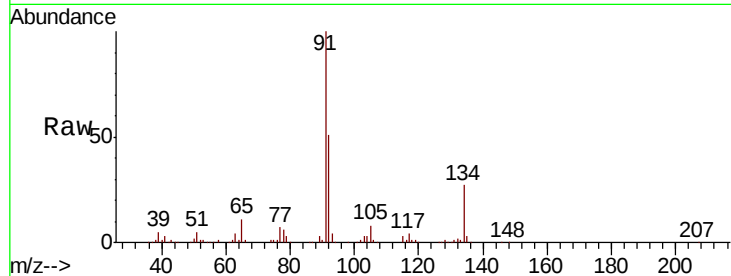
#89
n-Butylbenzene
Concen: 16.42 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Instrument :
MSVOA_N
ClientSampleId :
VN0914WBS03

Tot Ion	Ratio	Resp	Lower	Upper
91	100			
92	50.3	26.2	78.6	
134	26.9	13.7	41.1	

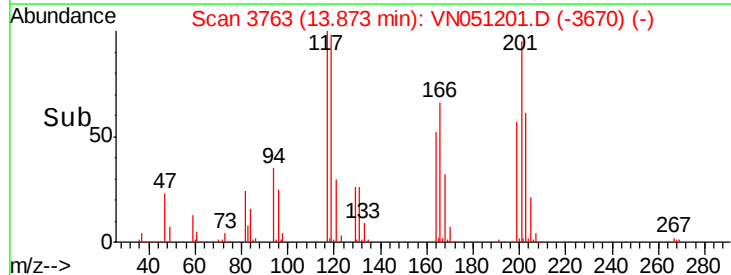
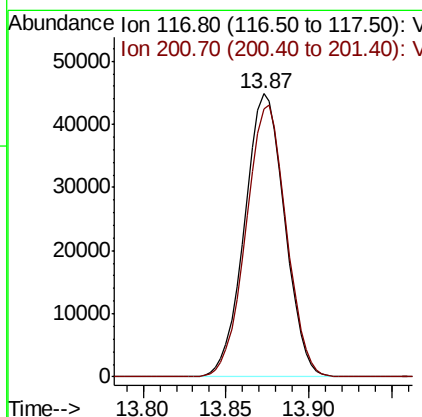
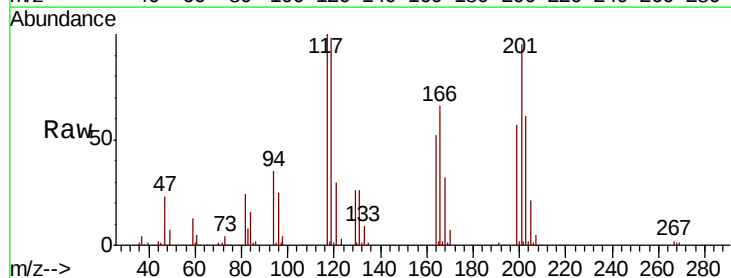
Manual Integrations
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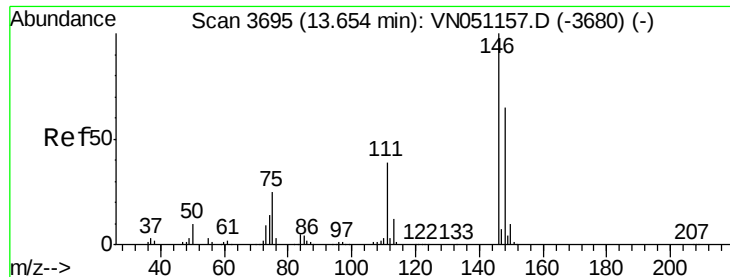
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#90
Hexachloroethane
Concen: 20.11 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN051201.D
Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
201	96.2	47.3	142.0	





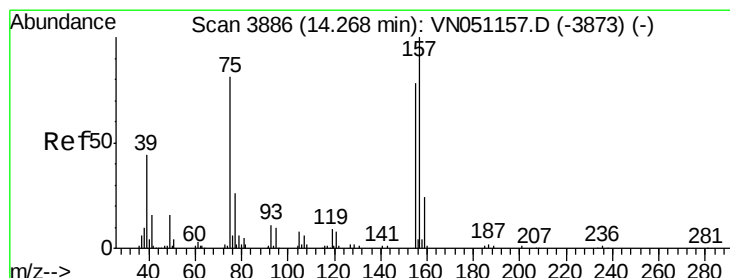
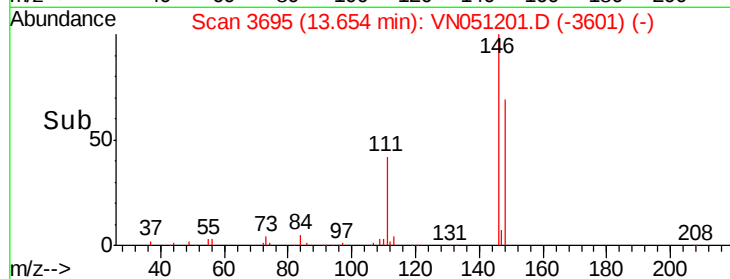
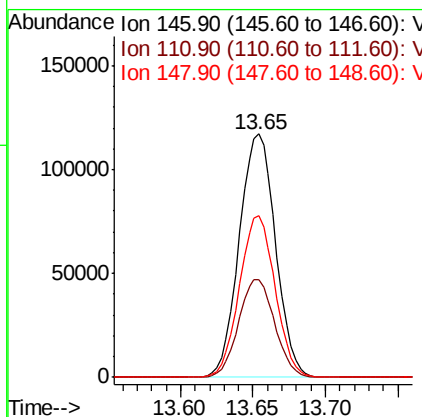
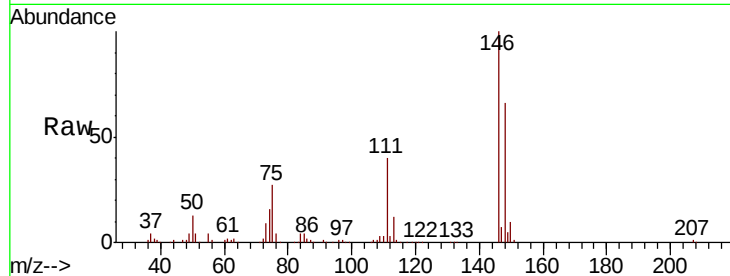
#91
 1,2-Dichlorobenzene
 Concen: 17.59 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBS03

Tot Ion	Ratio	Lower	Upper
146	100		
111	40.2	19.7	59.0
148	65.3	32.1	96.3

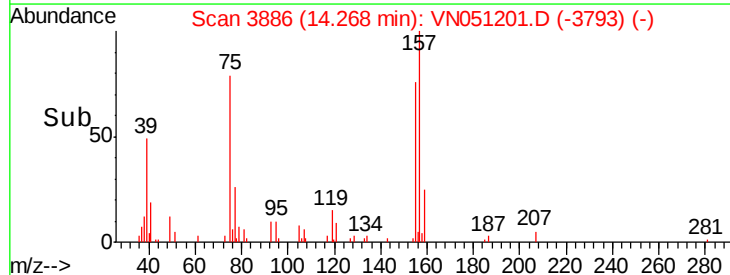
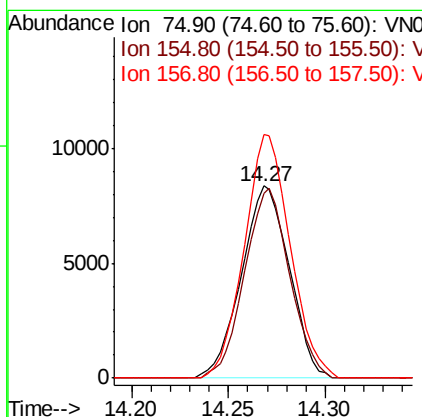
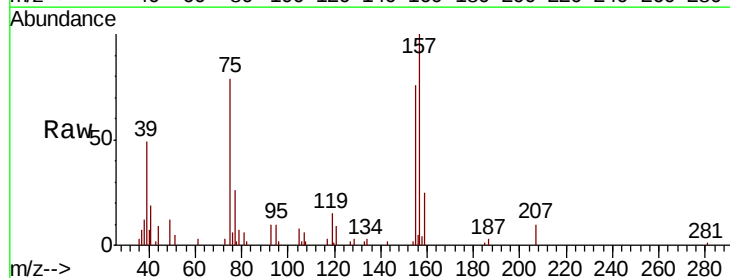
Manual Integrations
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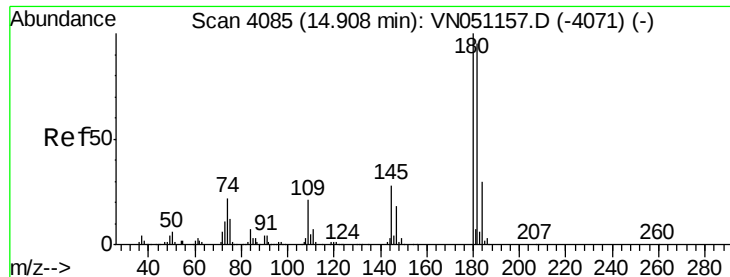
MMDadoda
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#92
 1,2-Dibromo-3-Chloropropane
 Concen: 16.63 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. 0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
75	100		
155	93.2	48.7	146.1
157	122.2	63.6	190.9





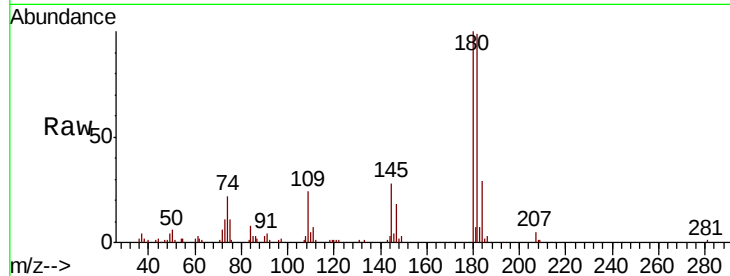
#93
 1,2,4-Trichlorobenzene
 Concen: 14.51 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0914WBS03

Tot Ion	Ratio	Lower	Upper
180	100		
182	95.6	47.3	141.8
145	27.5	14.2	42.6

Manual Integrations
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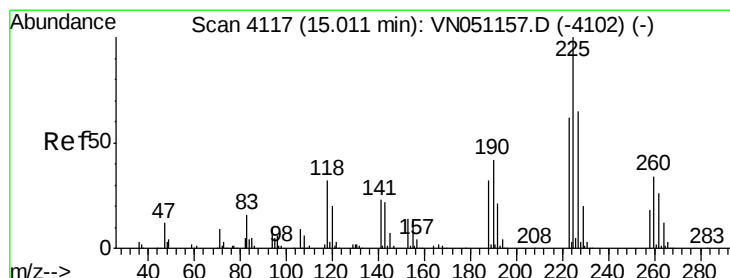
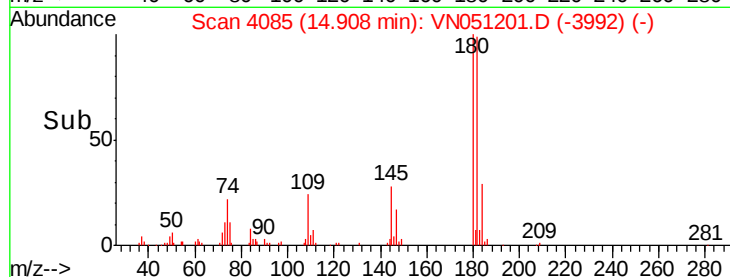
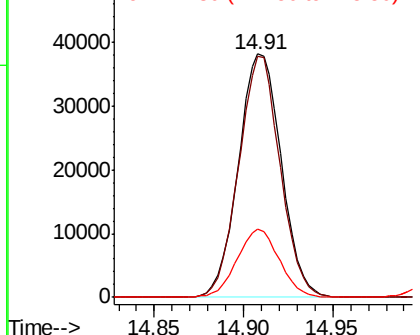


Abundance

Ion 179.80 (179.50 to 180.50): V

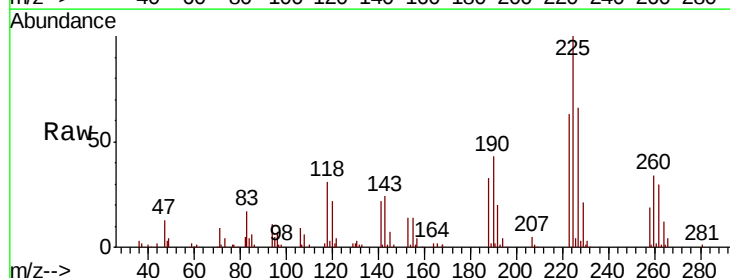
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



#94
 Hexachlorobutadiene
 Concen: 18.98 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051201.D
 Acq: 14 Sep 2018 20:31

Tgt Ion	Ratio	Lower	Upper
225	100		
223	61.0	31.4	94.0
227	64.3	32.1	96.3

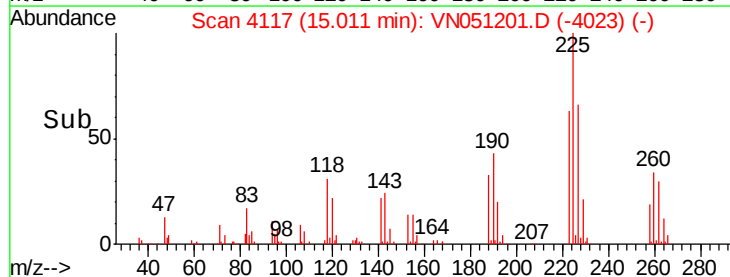
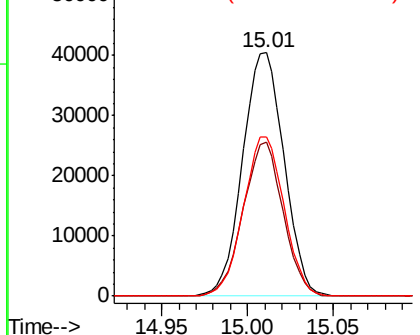


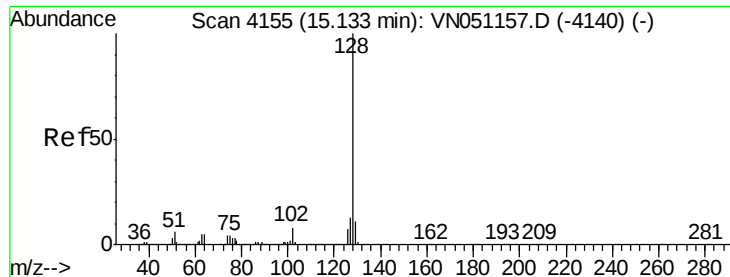
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 13.69 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. -0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Instrument :

MSVOA_N

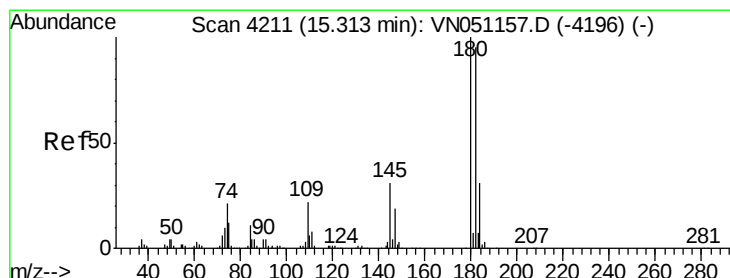
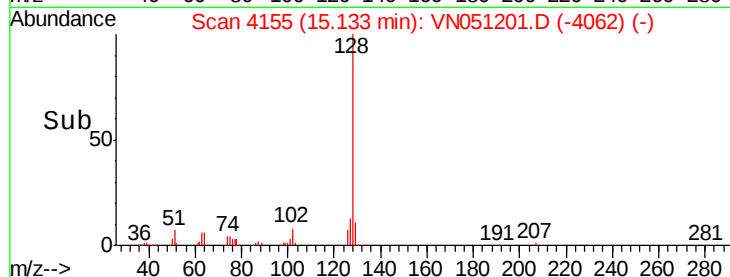
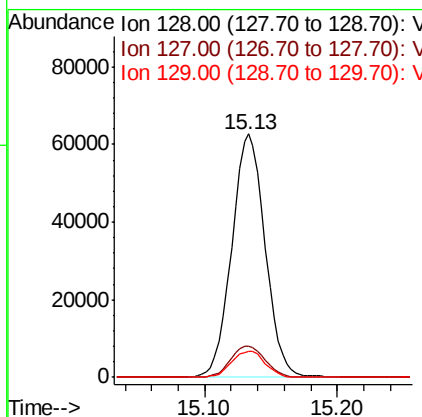
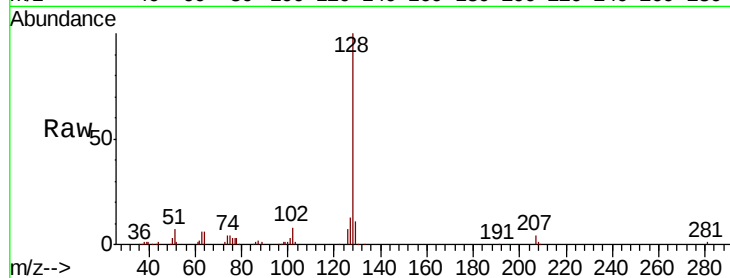
ClientSampleId :

VN0914WBS03

Tot Ion:	128	Resp:	109234
Ion Ratio	Lower	Upper	
128	100		
127	13.3	10.6	15.8
129	10.9	8.6	12.8

Manual Integrations
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#96

1,2,3-Trichlorobenzene

Concen: 15.46 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN051201.D

Acq: 14 Sep 2018 20:31

Tgt Ion:	180	Resp:	71053
Ion Ratio	Lower	Upper	
180	100		
182	93.1	47.8	143.3
145	28.1	14.6	43.8

