

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN041919\
 Data File : VN055154.D
 Acq On : 19 Apr 2019 22:03
 Operator : JC/SP
 Sample : VN0419WBSD02
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 27 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0419WBSD02

Manual Integrations
 APPROVED

MMDadoda
 4/22/2019 10:07:34 AM

Quant Time: Apr 20 05:06:45 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N041519W.M
 Quant Title : SW846 8260
 QLast Update : Mon Apr 15 12:28:28 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	370004	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	614980	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	514126	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	199021	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	260375	52.94	ug/l	0.00
Spiked Amount	50.000		Recovery	=	105.88%	
35) Dibromofluoromethane	7.59	113	203590	49.54	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.08%	
50) Toluene-d8	10.09	98	726901	49.42	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.84%	
62) 4-Bromofluorobenzene	12.40	95	233532	48.83	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.66%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	74506	17.719	ug/l	98
3) Chloromethane	2.06	50	98193	17.904	ug/l	97
4) Vinyl Chloride	2.19	62	79912	17.335	ug/l	100
5) Bromomethane	2.55	94	43458	16.664	ug/l	99
6) Chloroethane	2.70	64	43972	17.688	ug/l	100
7) Trichlorofluoromethane	3.01	101	117893	20.449	ug/l	98
8) Diethyl Ether	3.41	74	46288	25.153	ug/l	95
9) 1,1,2-Trichlorotrifluoroet	3.76	101	72292	23.961	ug/l	98
10) Methyl Iodide	3.95	142	103167	22.035	ug/l	92
11) Tert butyl alcohol	4.79	59	38833	144.046	ug/l	99
12) 1,1-Dichloroethene	3.74	96	70465	23.994	ug/l	89
13) Acrolein	3.61	56	24769	74.331	ug/l	96
14) Allyl chloride	4.33	41	144726	20.133	ug/l	98
15) Acrylonitrile	4.99	53	189140	117.264	ug/l	98
16) Acetone	3.82	43	145601	109.072	ug/l	96
17) Carbon Disulfide	4.05	76	155356	16.388	ug/l	99
18) Methyl Acetate	4.33	43	96145	24.769	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	230697	21.960	ug/l	97
20) Methylene Chloride	4.55	84	90423	19.269	ug/l	98
21) trans-1,2-Dichloroethene	5.05	96	75799	19.084	ug/l	99
22) Diisopropyl ether	5.95	45	307348	20.798	ug/l	91
23) Vinyl Acetate	5.90	43	1100238	112.640	ug/l	99
24) 1,1-Dichloroethane	5.85	63	160849	20.440	ug/l	98
25) 2-Butanone	6.84	43	233488	117.193	ug/l	98
26) 2,2-Dichloropropane	6.83	77	92696	18.663	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	90205	20.074	ug/l	98
28) Bromochloromethane	7.20	49	78888	20.796	ug/l	99
29) Tetrahydrofuran	7.22	42	160039	122.494	ug/l	99
30) Chloroform	7.37	83	155154	20.298	ug/l	98
31) Cyclohexane	7.65	56	139150	19.231	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	122124	20.166	ug/l	100
36) 1,1-Dichloropropene	7.80	75	107380	18.522	ug/l	98
37) Ethyl Acetate	6.93	43	102632	21.746	ug/l	97
38) Carbon Tetrachloride	7.77	117	100927	18.298	ug/l	94

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	105606	16.810	ug/l	98
40) Benzene	8.04	78	333535	19.089	ug/l	99
41) Methacrylonitrile	7.18	41	54781	20.910	ug/l	98
42) 1,2-Dichloroethane	8.13	62	119134	19.638	ug/l	99
43) Isopropyl Acetate	8.17	43	173886	23.910	ug/l	100
44) Trichloroethene	8.84	130	83753	19.137	ug/l	100
45) 1,2-Dichloropropane	9.12	63	97911	20.093	ug/l	99
46) Dibromomethane	9.21	93	57031	20.562	ug/l	100
47) Bromodichloromethane	9.40	83	114659	20.051	ug/l	97
48) Methyl methacrylate	9.20	41	79020	21.922	ug/l	99
49) 1,4-Dioxane	9.20	88	18783	556.187	ug/l	97
51) 4-Methyl-2-Pentanone	9.99	43	495150	117.852	ug/l	98
52) Toluene	10.16	92	194711	19.457	ug/l	100
53) t-1,3-Dichloropropene	10.38	75	100929	20.197	ug/l	99
54) cis-1,3-Dichloropropene	9.84	75	123816	19.963	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	80222	20.807	ug/l	100
56) Ethyl methacrylate	10.43	69	101520	21.940	ug/l	99
57) 1,3-Dichloropropane	10.71	76	136047	20.725	ug/l	99
58) 2-Chloroethyl Vinyl ether	9.70	63	175365	93.318	ug/l	99
59) 2-Hexanone	10.75	43	308700	116.980	ug/l	98
60) Dibromochloromethane	10.90	129	76947	20.438	ug/l	98
61) 1,2-Dibromoethane	11.01	107	75328	21.227	ug/l	99
64) Tetrachloroethene	10.63	164	81017	19.379	ug/l	93
65) Chlorobenzene	11.43	112	199951	19.321	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	79293	20.832	ug/l	99
67) Ethyl Benzene	11.51	91	360169	19.488	ug/l	100
68) m/p-Xylenes	11.62	106	260965	38.995	ug/l	100
69) o-Xylene	11.95	106	131867	20.344	ug/l	100
70) Styrene	11.96	104	214502	20.444	ug/l	99
71) Bromoform	12.13	173	47757	21.890	ug/l #	99
73) Isopropylbenzene	12.25	105	347925	19.701	ug/l	99
74) N-amyl acetate	12.07	43	116338	23.401	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	102884	21.771	ug/l	98
76) 1,2,3-Trichloropropane	12.55	75	75849m	21.193	ug/l	
77) Bromobenzene	12.53	156	84783	19.256	ug/l	97
78) n-propylbenzene	12.59	91	364443	19.100	ug/l	100
79) 2-Chlorotoluene	12.67	91	234736	19.723	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	285298	20.018	ug/l	98
81) trans-1,4-Dichloro-2-buten	12.30	75	19495	21.783	ug/l	94
82) 4-Chlorotoluene	12.77	91	218863	19.711	ug/l	100
83) tert-Butylbenzene	12.99	119	239887	19.931	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	264298	19.568	ug/l	100
85) sec-Butylbenzene	13.17	105	300220	19.575	ug/l	99
86) p-Isopropyltoluene	13.29	119	257122	19.541	ug/l	99
87) 1,3-Dichlorobenzene	13.28	146	131463	19.644	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	124741	19.547	ug/l	99
89) n-Butylbenzene	13.61	91	174889	17.905	ug/l	98
90) Hexachloroethane	13.87	117	42053	19.642	ug/l	98
91) 1,2-Dichlorobenzene	13.65	146	135429	20.113	ug/l	99
92) 1,2-Dibromo-3-Chloropropan	14.27	75	14139	24.297	ug/l	97

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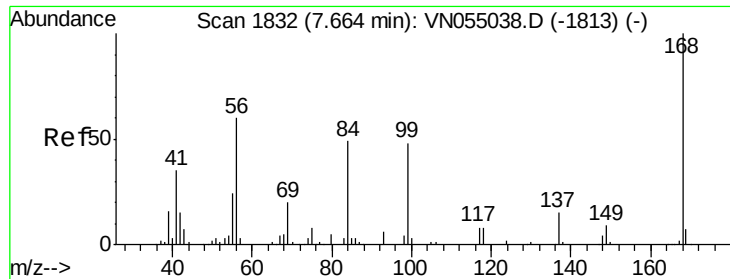
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	43997	16.320	ug/l	97
94) Hexachlorobutadiene	15.01	225	42085	20.236	ug/l	96
95) Naphthalene	15.13	128	107019	17.144	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	48497	18.670	ug/l	97

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



#1

Pentafluorobenzene

Concen: 50.000 ug/l

RT: 7.67 min Scan# 1833

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

ClientSampleId :

VN0419WBSD02

Tot Ion:168 Resp: 370004

Ion Ratio Lower Upper

168 100

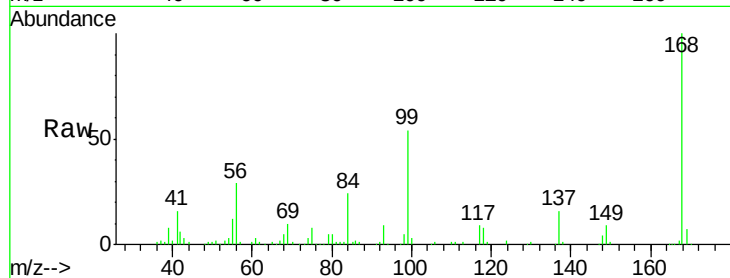
99 53.0 41.9 62.9

Manual Integrations

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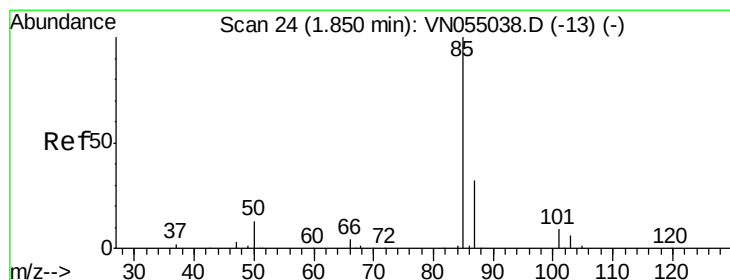
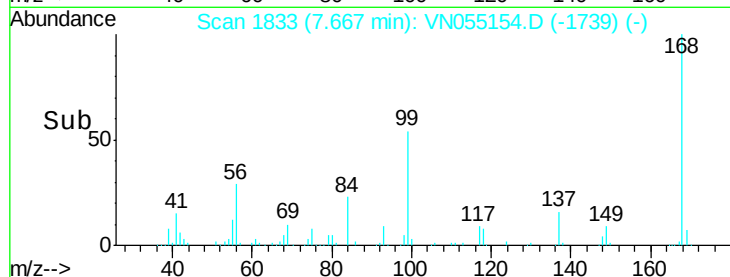
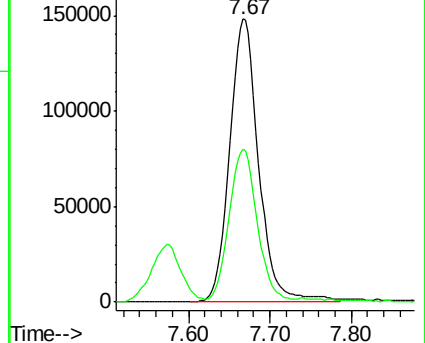
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN



#2

Dichlorodifluoromethane

Concen: 17.719 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN055154.D

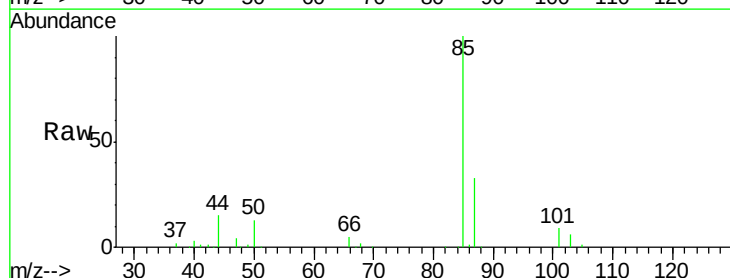
Acq: 19 Apr 2019 22:03

Tgt Ion: 85 Resp: 74506

Ion Ratio Lower Upper

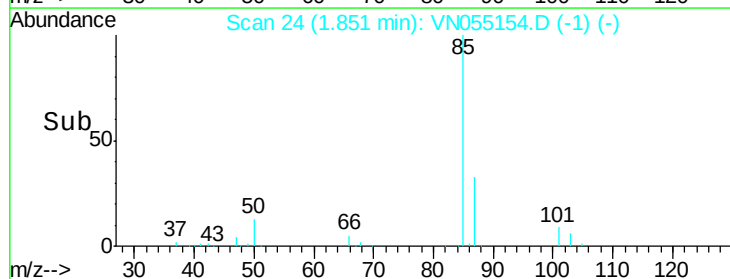
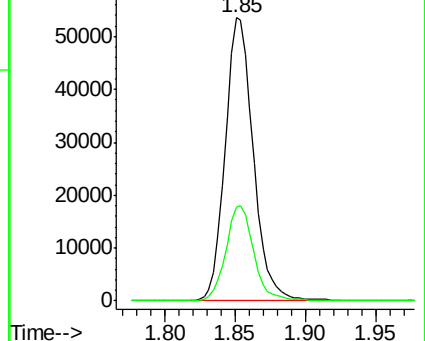
85 100

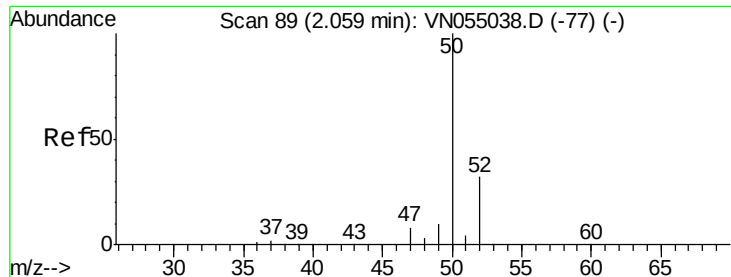
87 33.1 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VN

Ion 86.90 (86.60 to 87.60): VN





#3

Chloromethane

Concen: 17.904 ug/l

RT: 2.06 min Scan# 90

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

ClientSampleId :

VN0419WBSD02

Tot Ion: 50 Resp: 98193

Ion Ratio Lower Upper

50 100

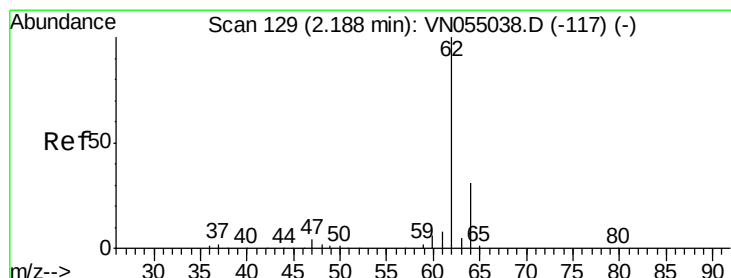
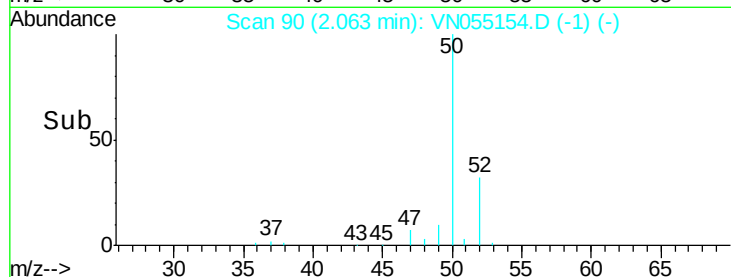
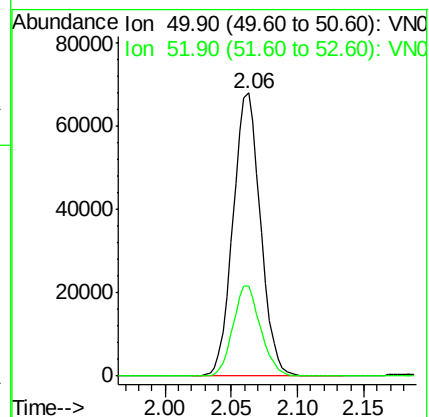
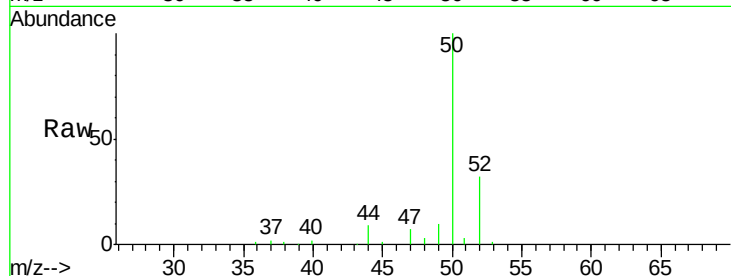
52 31.6 26.6 40.0

Manual Integrations

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#4

Vinyl Chloride

Concen: 17.335 ug/l

RT: 2.19 min Scan# 129

Delta R.T. 0.00 min

Lab File: VN055154.D

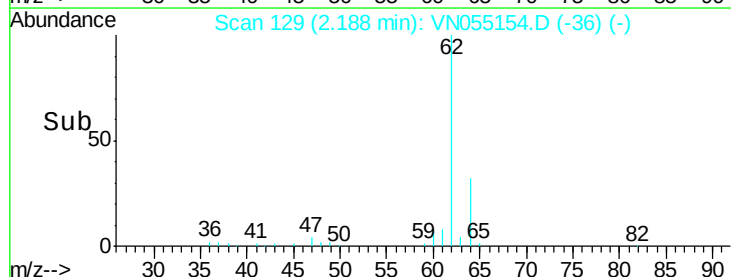
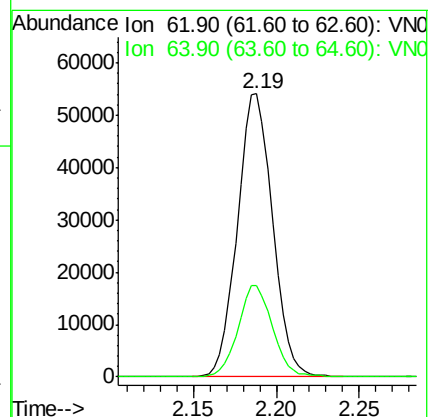
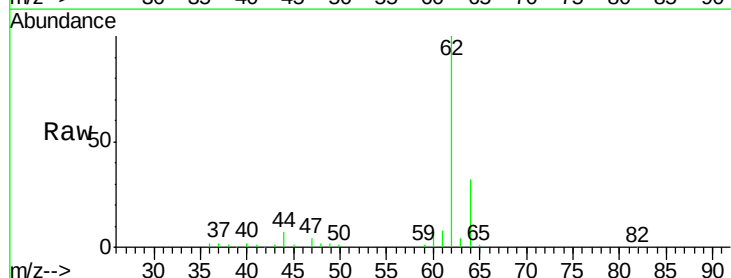
Acq: 19 Apr 2019 22:03

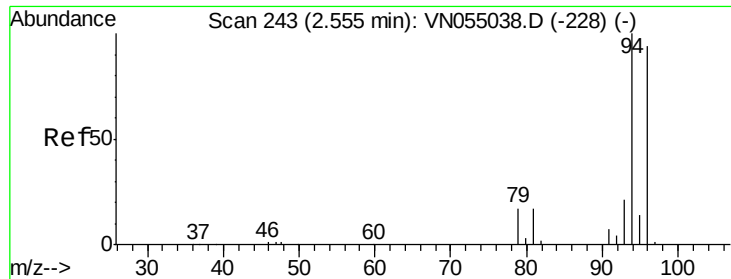
Tgt Ion: 62 Resp: 79912

Ion Ratio Lower Upper

62 100

64 32.3 25.8 38.6





#5

Bromomethane

Concen: 16.664 ug/l

RT: 2.55 min Scan# 243

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

ClientSampleId :

VN0419WBSD02

Tot Ion: 94 Resp: 43458

Ion Ratio Lower Upper

94 100

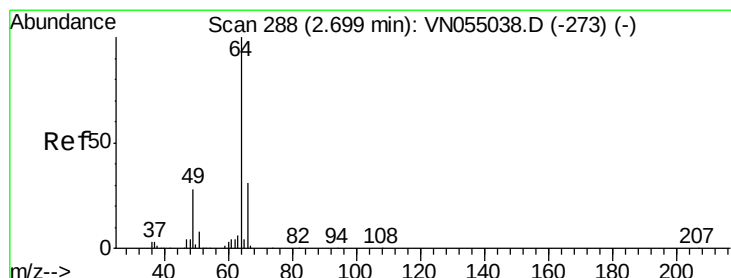
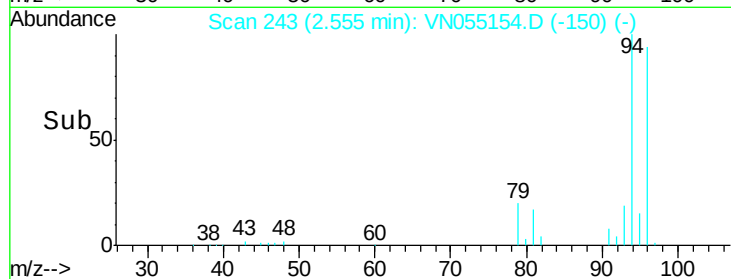
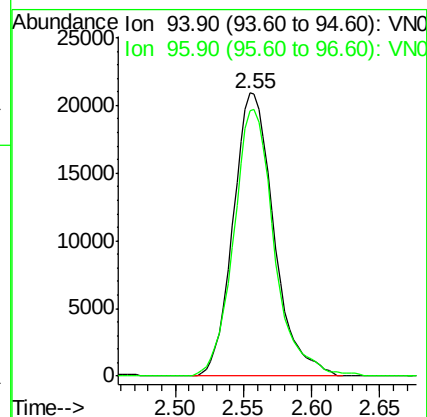
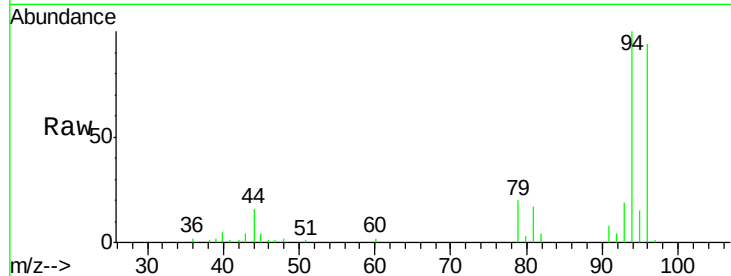
96 94.0 76.2 114.4

Manual Integrations

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#6

Chloroethane

Concen: 17.688 ug/l

RT: 2.70 min Scan# 288

Delta R.T. 0.00 min

Lab File: VN055154.D

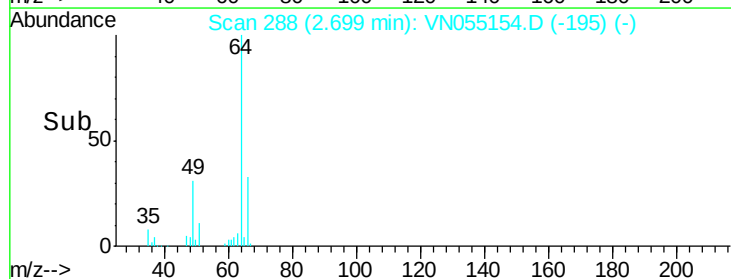
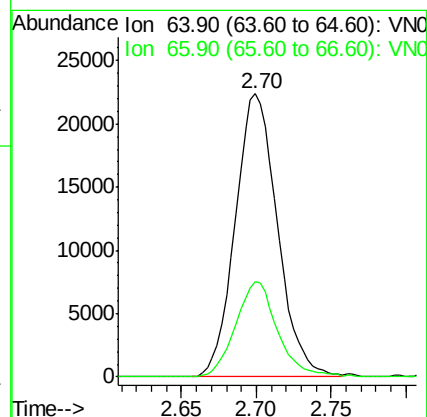
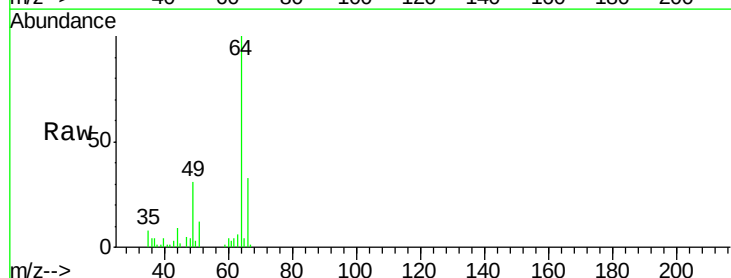
Acq: 19 Apr 2019 22:03

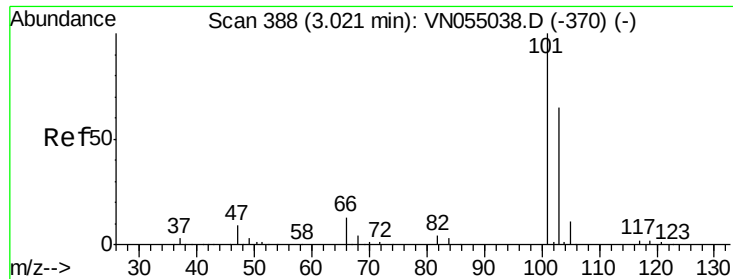
Tgt Ion: 64 Resp: 43972

Ion Ratio Lower Upper

64 100

66 33.5 26.6 40.0





#7

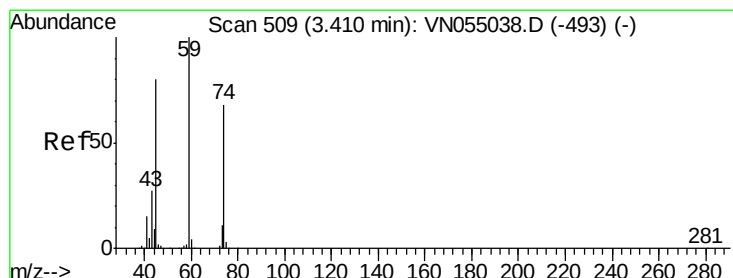
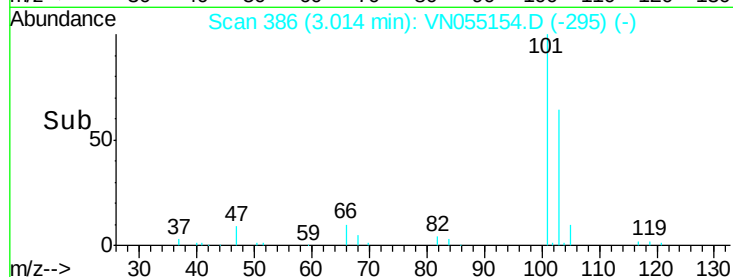
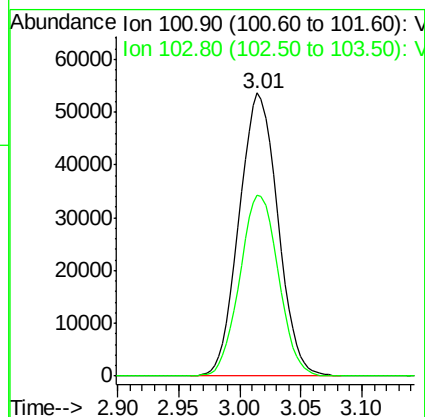
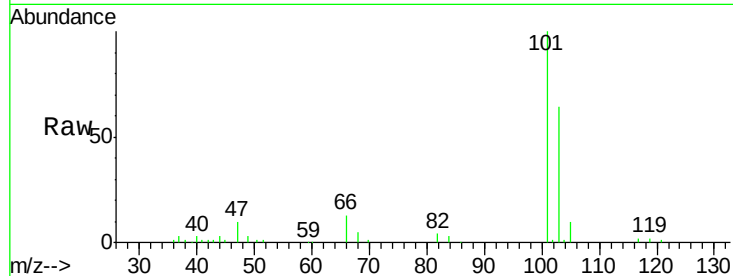
Trichlorofluoromethane
Concen: 20.449 ug/l
RT: 3.01 min Scan# 386
Delta R.T. -0.01 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

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VN0419WBSD02

Tot Ion:101 Resp: 117893
Ion Ratio Lower Upper
101 100
103 64.0 52.5 78.7

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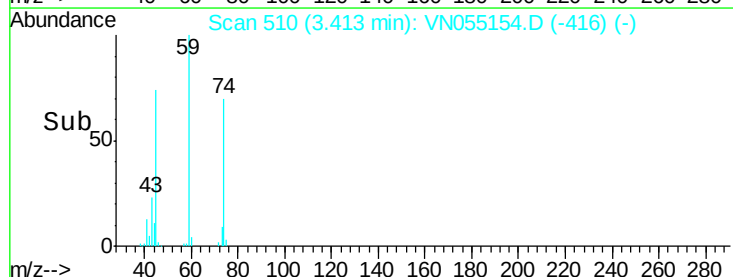
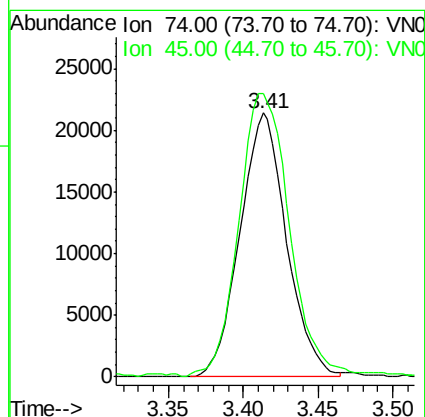
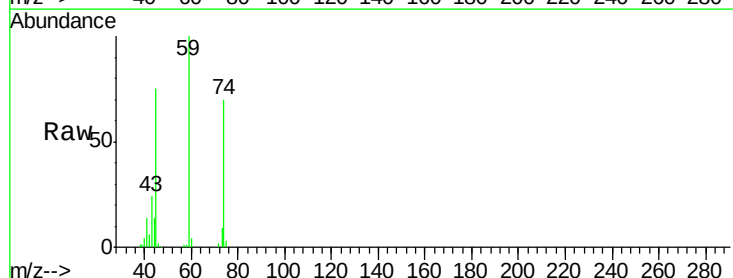
MMDadoda
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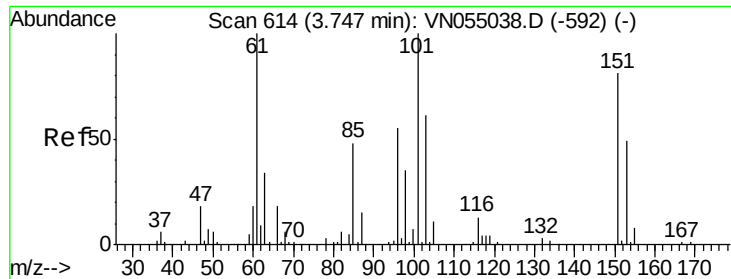


#8

Diethyl Ether
Concen: 25.153 ug/l
RT: 3.41 min Scan# 510
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion: 74 Resp: 46288
Ion Ratio Lower Upper
74 100
45 116.9 55.7 167.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 23.961 ug/l

RT: 3.76 min Scan# 618

Delta R.T. 0.01 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

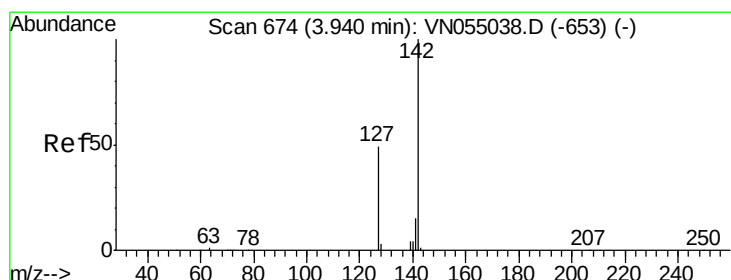
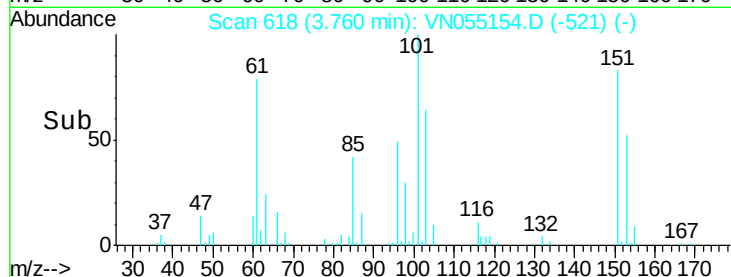
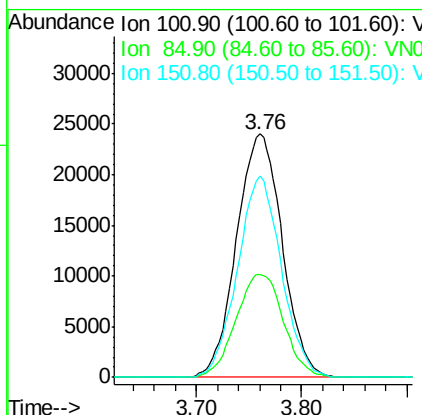
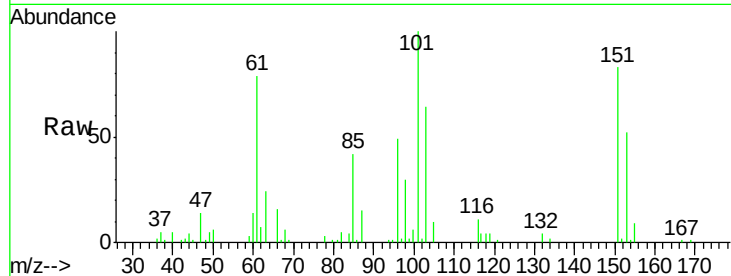
ClientSampleId :

VN0419WBSD02

Tot Ion:	101	Resp:	72292
Ion Ratio	Lower	Upper	
101	100		
85	43.9	36.9	55.3
151	79.4	64.4	96.6

Manual Integrations
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#10

Methyl Iodide

Concen: 22.035 ug/l

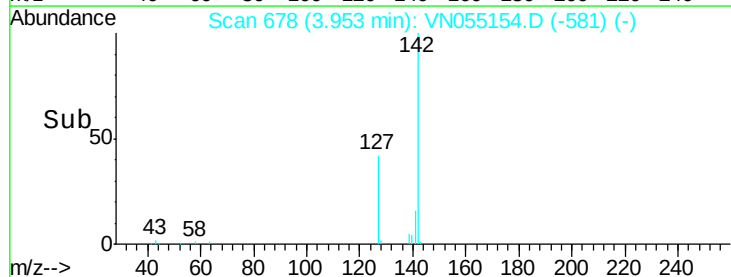
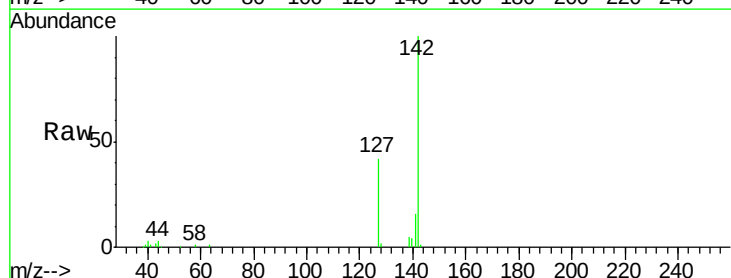
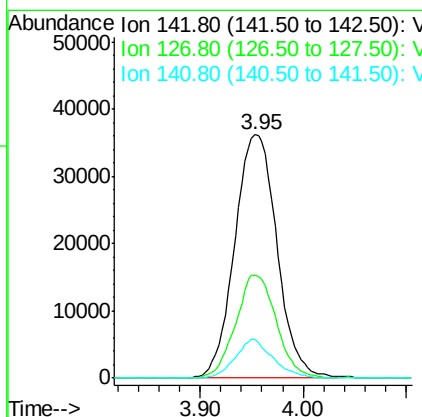
RT: 3.95 min Scan# 678

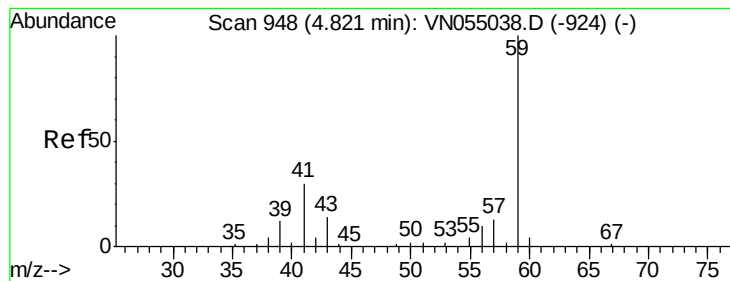
Delta R.T. 0.01 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Tgt Ion:	142	Resp:	103167
Ion Ratio	Lower	Upper	
142	100		
127	40.7	37.9	56.9
141	14.1	11.8	17.8





#11

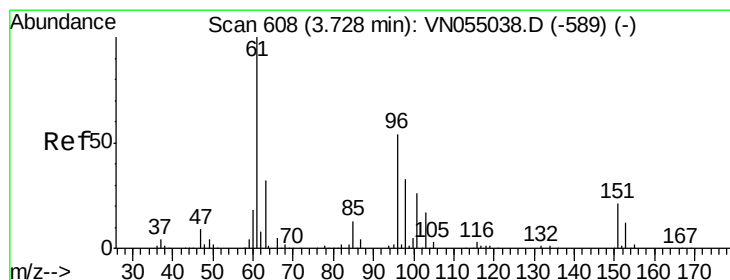
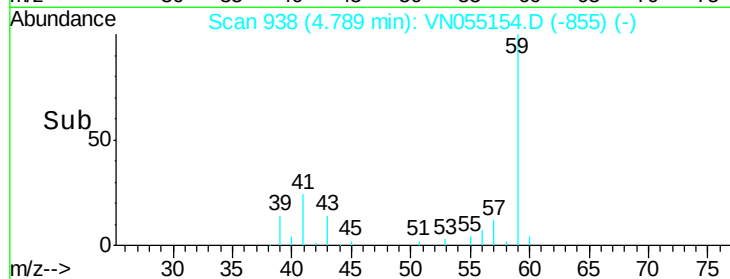
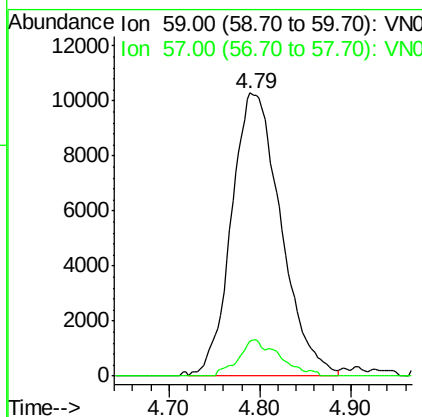
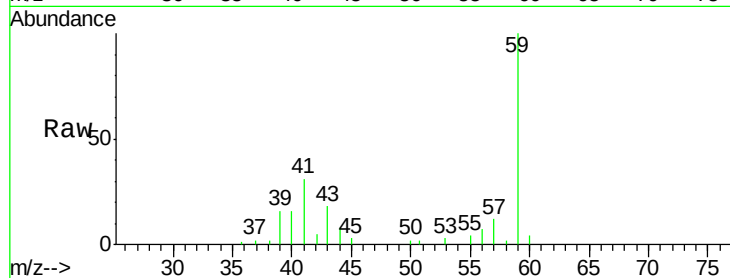
Tert butyl alcohol
 Concen: 144.046 ug/l
 RT: 4.79 min Scan# 938
 Delta R.T. -0.03 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Instrument :
 MSVOA_N
 ClientSampled :
 VN0419WBSD02

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.7	8.3	12.5

Manual Integrations
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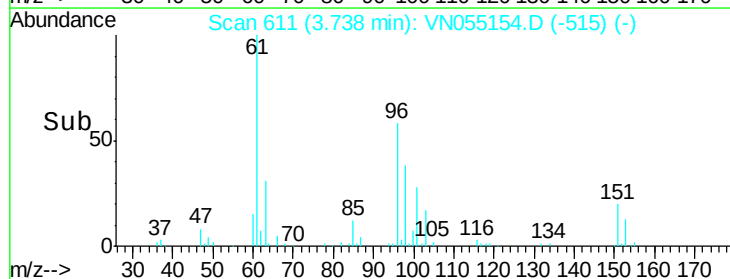
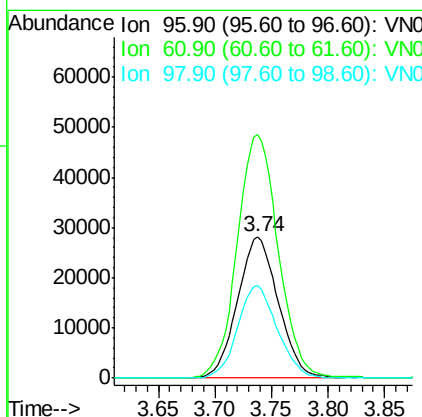
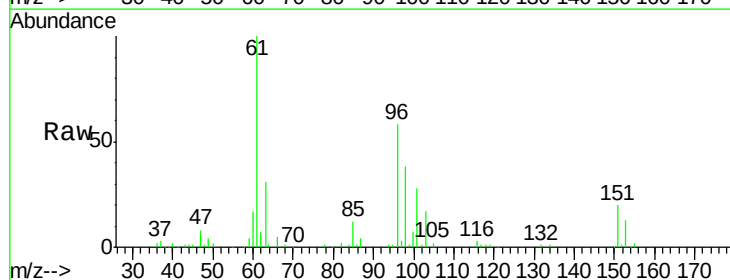
MMDadoda
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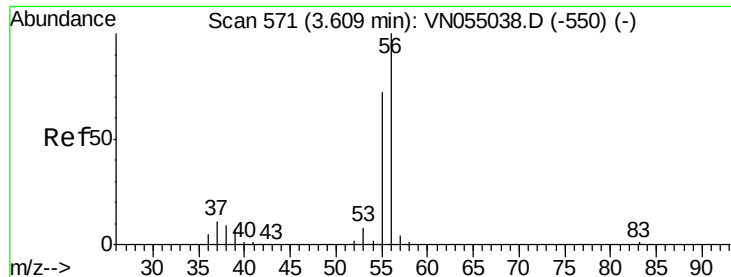


#12

1,1-Dichloroethene
 Concen: 23.994 ug/l
 RT: 3.74 min Scan# 611
 Delta R.T. 0.01 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Tgt Ion	Ratio	Lower	Upper
96	100		
61	172.0	154.2	231.4
98	65.8	52.9	79.3





#13

Acrolein

Concen: 74.331 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

ClientSampleId :

VN0419WBSD02

Tot Ion: 56 Resp: 24769

Ion Ratio Lower Upper

56 100

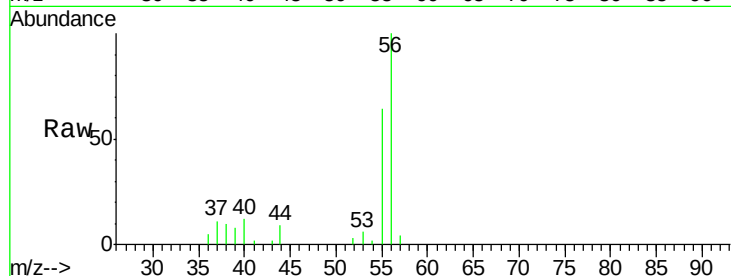
55 71.3 59.5 89.3

Manual Integrations

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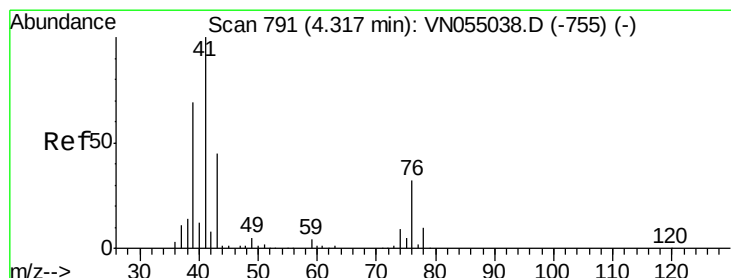
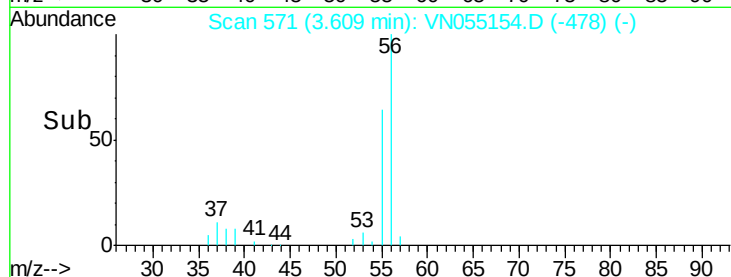
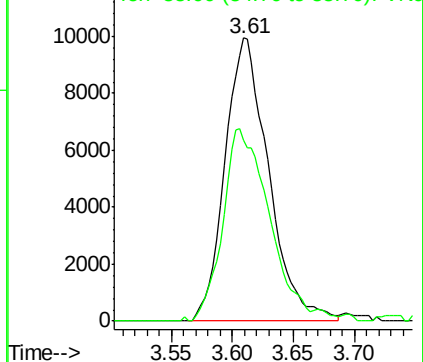
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Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Allyl chloride

Concen: 20.133 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.01 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

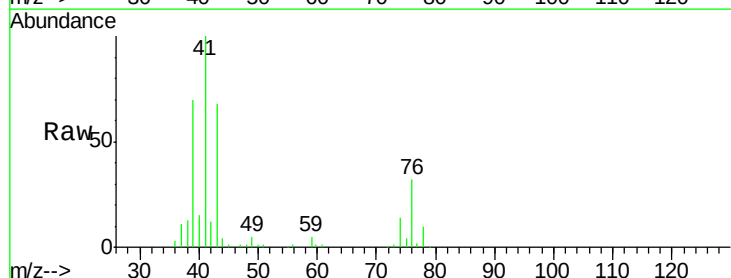
Tgt Ion: 41 Resp: 144726

Ion Ratio Lower Upper

41 100

39 64.0 52.7 79.1

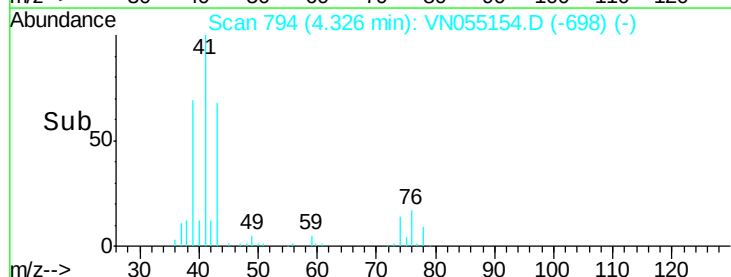
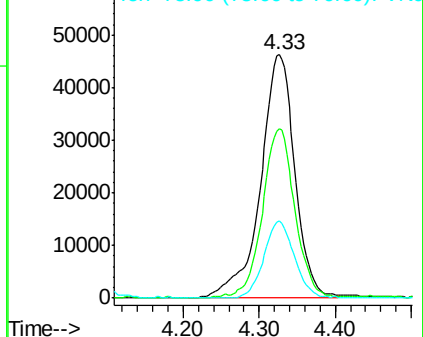
76 28.0 23.2 34.8

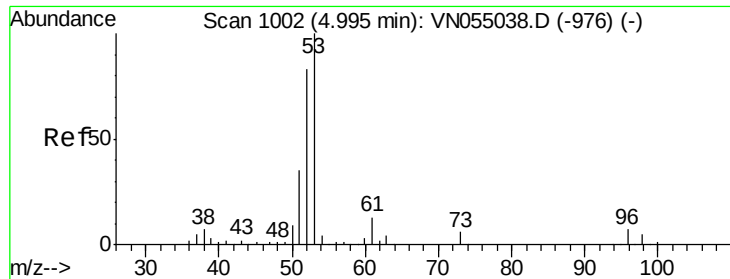


Abundance Ion 41.00 (40.70 to 41.70): VN0

Ion 39.00 (38.70 to 39.70): VN0

Ion 75.90 (75.60 to 76.60): VN0





#15

Acrylonitrile

Concen: 117.264 ug/l

RT: 4.99 min Scan# 1001

Delta R.T. -0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

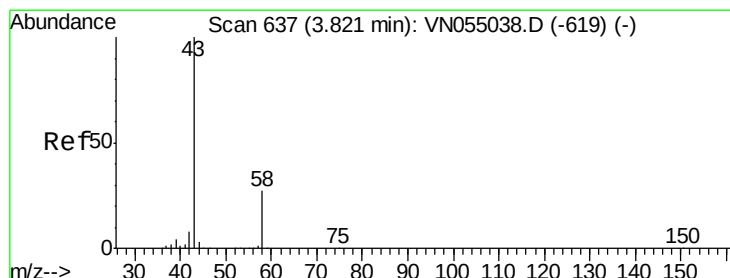
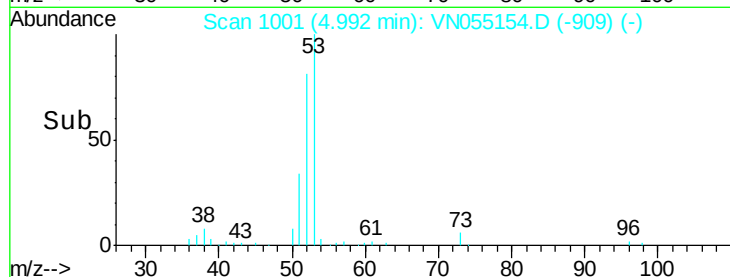
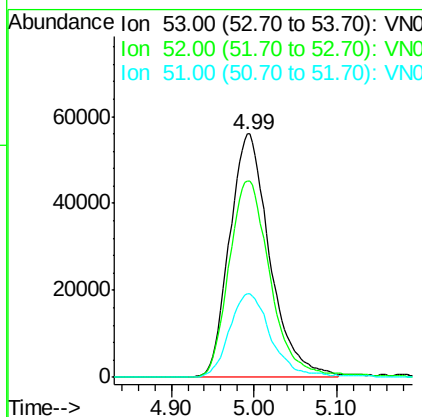
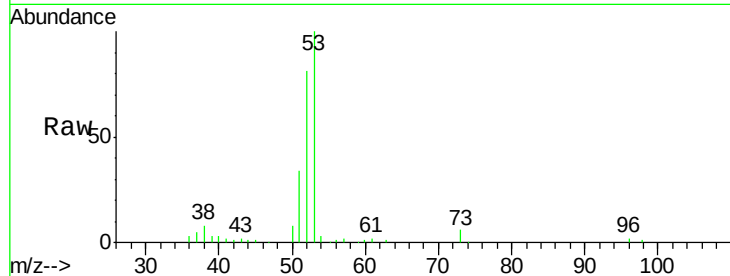
ClientSampleId :

VN0419WBSD02

Tot Ion:	53	Resp:	189140
Ion	Ratio	Lower	Upper
53	100		
52	81.6	65.9	98.9
51	35.3	29.7	44.5

Manual Integrations
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#16

Acetone

Concen: 109.072 ug/l

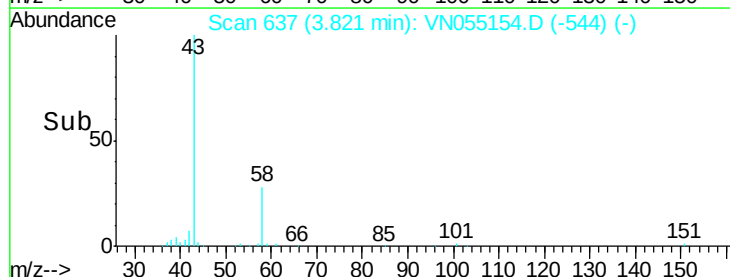
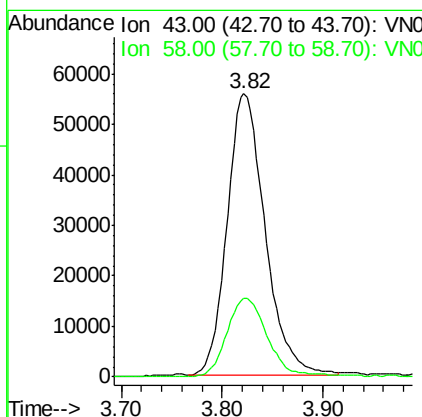
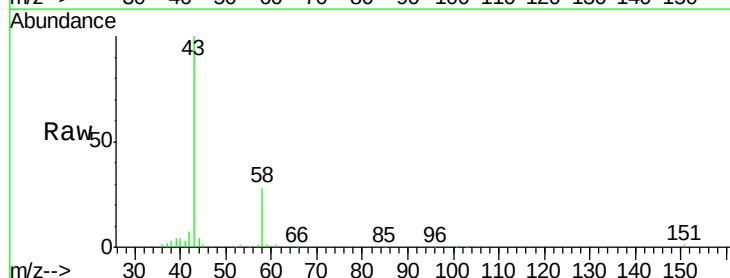
RT: 3.82 min Scan# 637

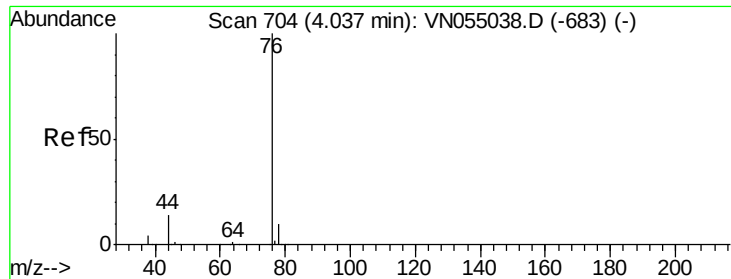
Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Tgt Ion:	43	Resp:	145601
Ion	Ratio	Lower	Upper
43	100		
58	28.1	20.9	31.3





#17

Carbon Disulfide

Concen: 16.388 ug/l

RT: 4.05 min Scan# 709

Delta R.T. 0.02 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

ClientSampleId :

VN0419WBSD02

Tot Ion: 76 Resp: 155356

Ion Ratio Lower Upper

76 100

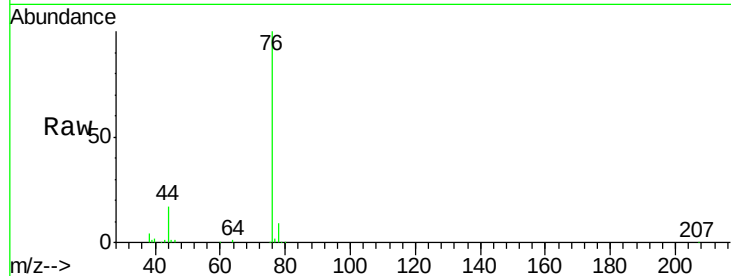
78 8.6 7.2 10.8

Manual Integrations

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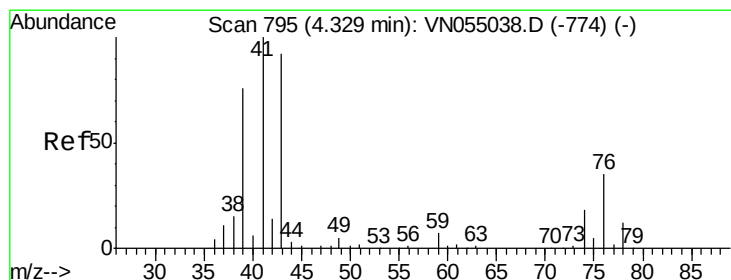
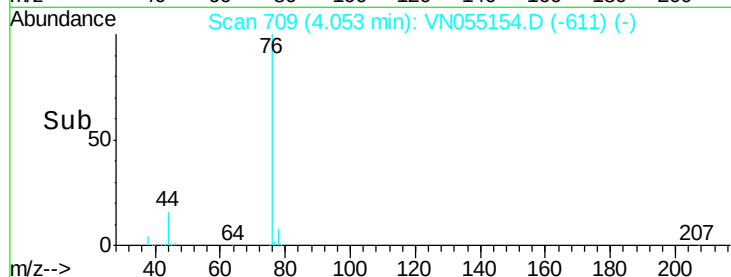
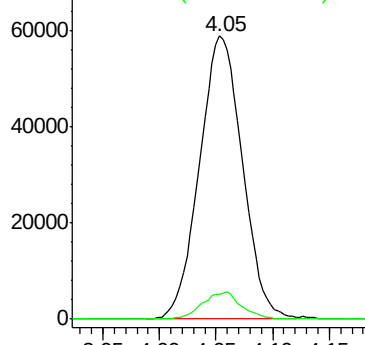
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Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#18

Methyl Acetate

Concen: 24.769 ug/l

RT: 4.33 min Scan# 796

Delta R.T. 0.00 min

Lab File: VN055154.D

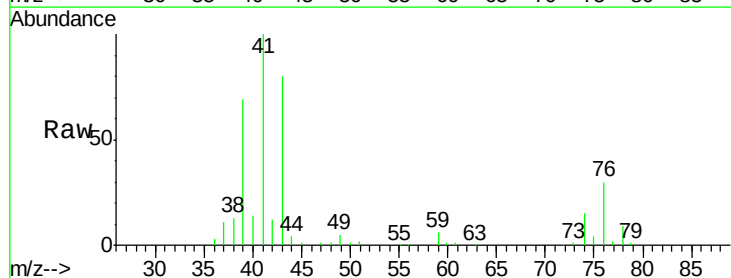
Acq: 19 Apr 2019 22:03

Tgt Ion: 43 Resp: 96145

Ion Ratio Lower Upper

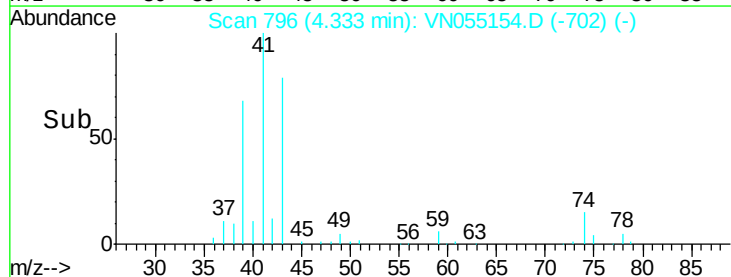
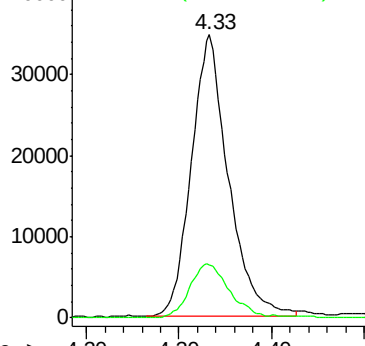
43 100

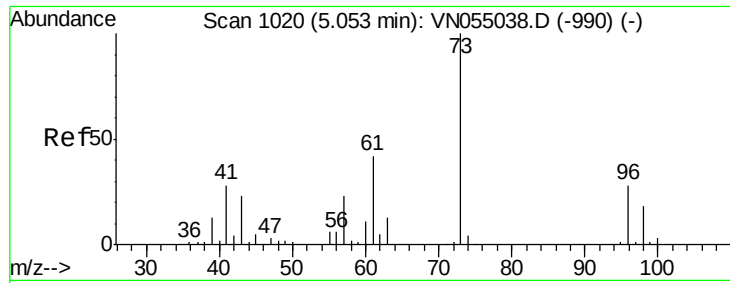
74 20.4 16.1 24.1



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 74.00 (73.70 to 74.70): VN0





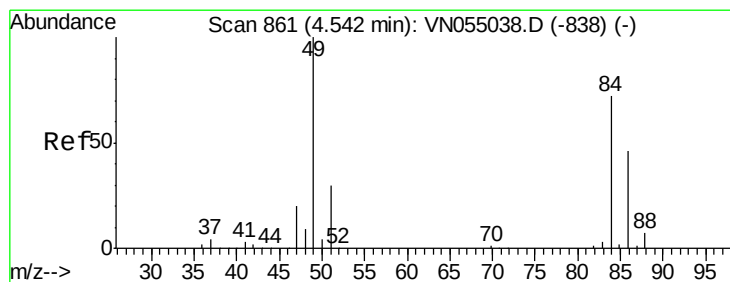
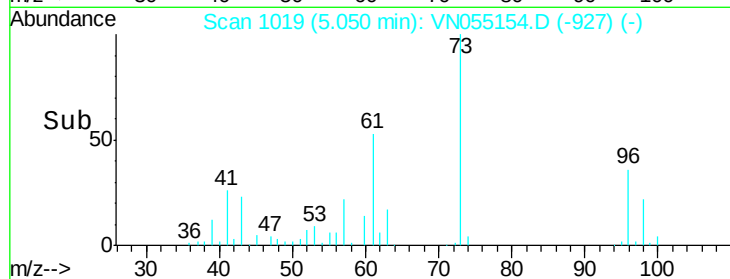
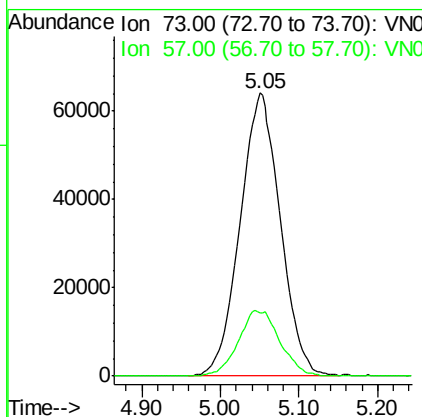
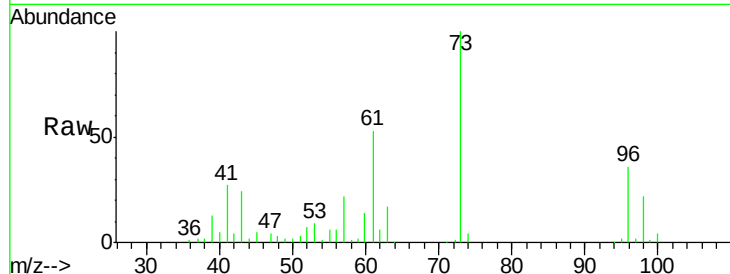
#19
Methvl tert-butvl Ether
Concen: 21.960 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. -0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Instrument :
MSVOA_N
ClientSampleId :
VN0419WBSD02

Tot Ion: 73 Resp: 230697
Ion Ratio Lower Upper
73 100
57 22.2 19.0 28.4

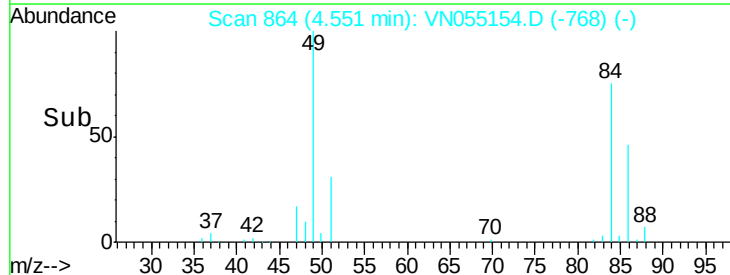
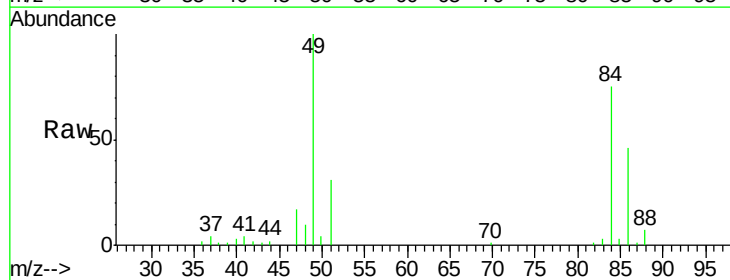
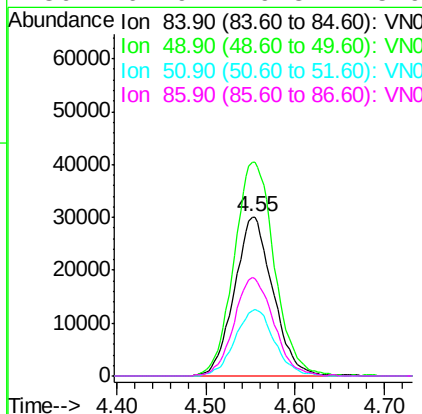
Manual Integrations
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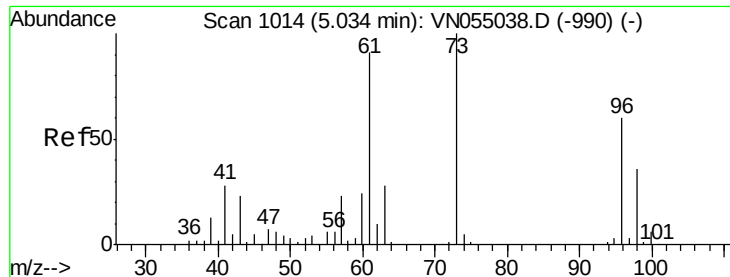
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#20
Methylene Chloride
Concen: 19.269 ug/l
RT: 4.55 min Scan# 864
Delta R.T. 0.01 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion: 84 Resp: 90423
Ion Ratio Lower Upper
84 100
49 134.1 109.4 164.2
51 41.4 32.2 48.4
86 61.9 49.3 73.9





#21

trans-1,2-Dichloroethene

Concen: 19.084 ug/l

RT: 5.05 min Scan# 1019

Delta R.T. 0.02 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

ClientSampleId :

VN0419WBSD02

Tot Ion: 96 Resp: 75799

Ion Ratio Lower Upper

96 100

61 145.6 114.9 172.3

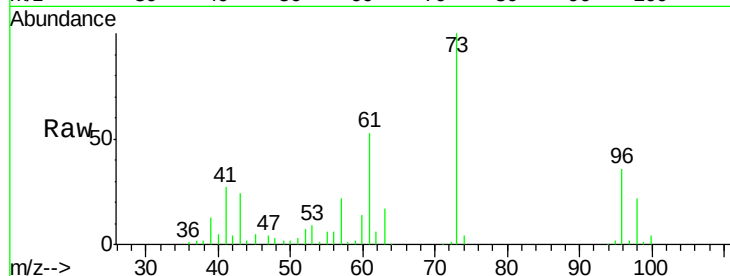
98 60.3 48.4 72.6

Manual Integrations

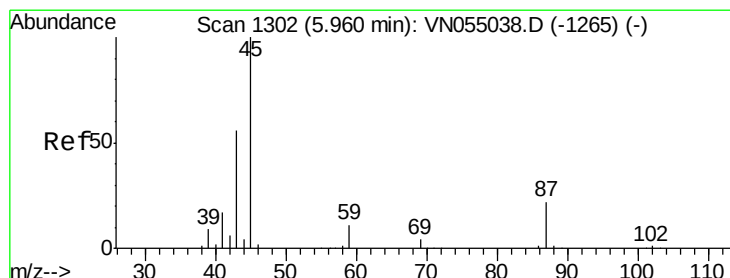
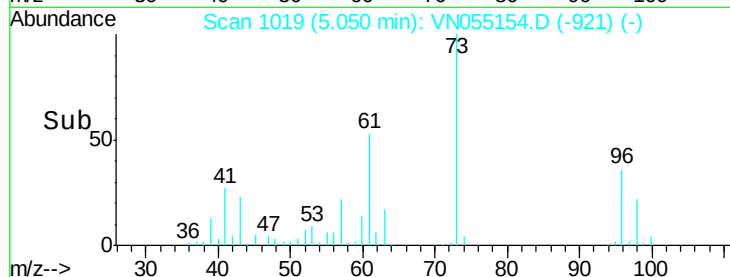
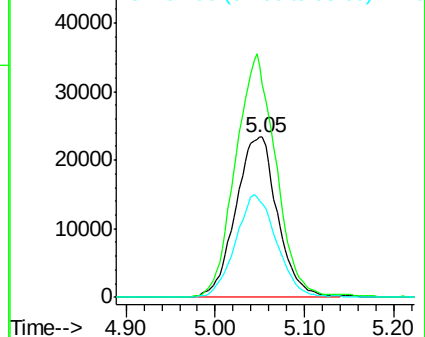
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Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC



#22

Diisopropyl ether

Concen: 20.798 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. -0.01 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Tgt Ion: 45 Resp: 307348

Ion Ratio Lower Upper

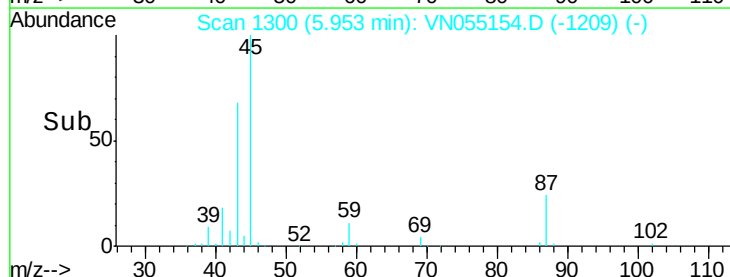
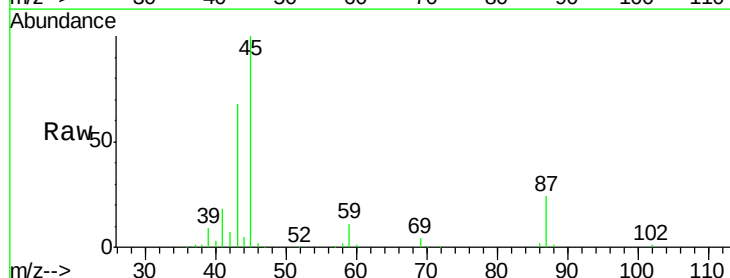
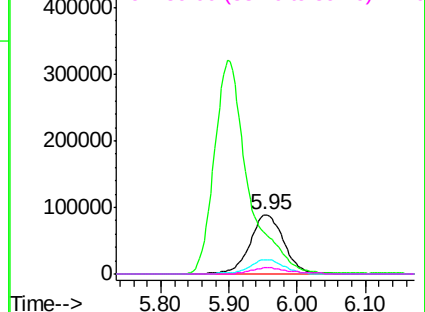
45 100

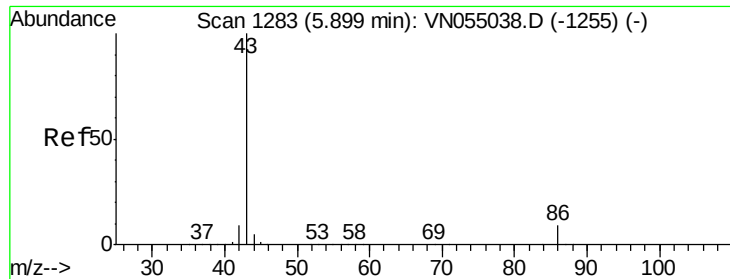
43 65.7 44.8 67.2

87 23.7 18.9 28.3

59 10.3 7.9 11.9

Abundance Ion 45.00 (44.70 to 45.70): VNC
Ion 43.00 (42.70 to 43.70): VNC
Ion 87.00 (86.70 to 87.70): VNC
Ion 59.00 (58.70 to 59.70): VNC





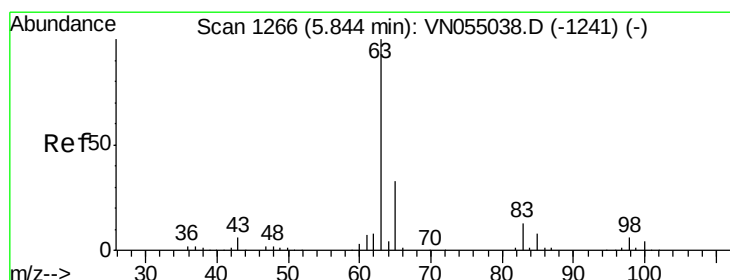
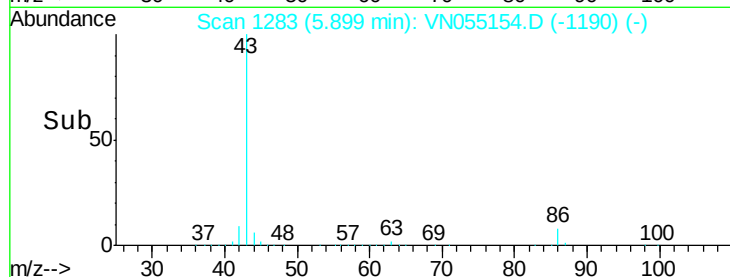
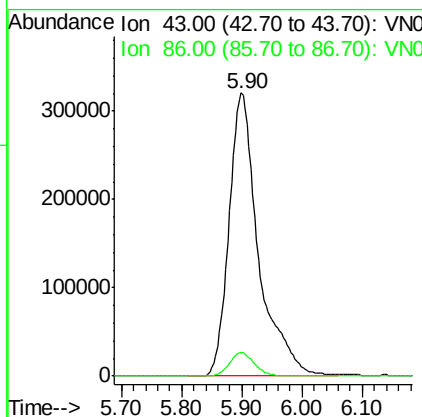
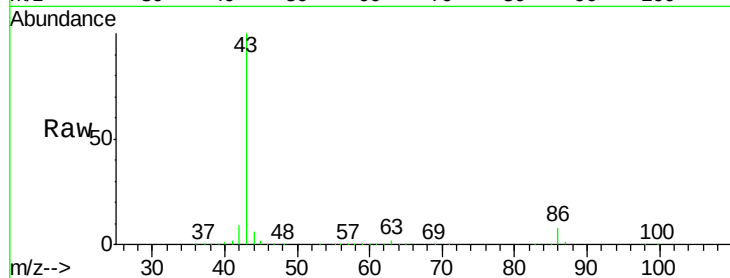
#23
 Vinyl Acetate
 Concen: 112.640 ug/l
 RT: 5.90 min Scan# 1283
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0419WBSD02

Tot Ion: 43 Resp: 1100238
 Ion Ratio Lower Upper
 43 100
 86 8.5 7.0 10.4

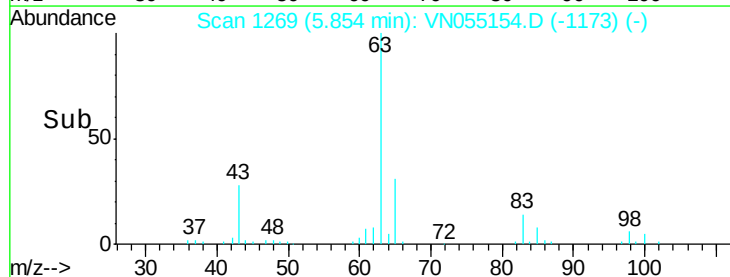
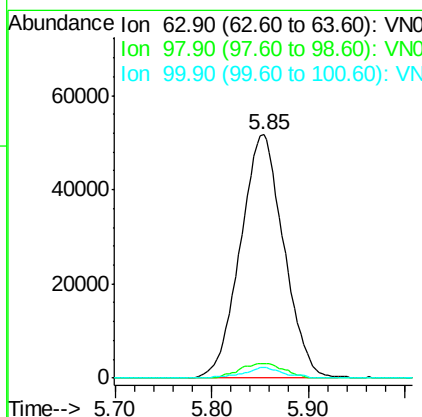
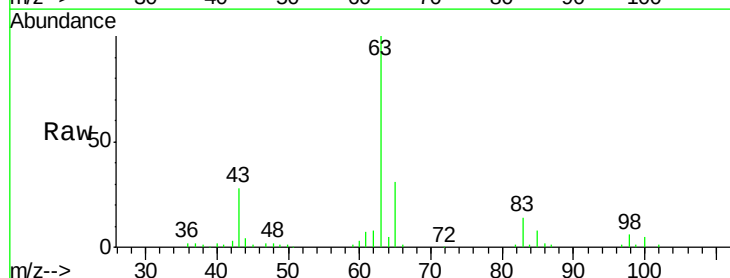
Manual Integrations
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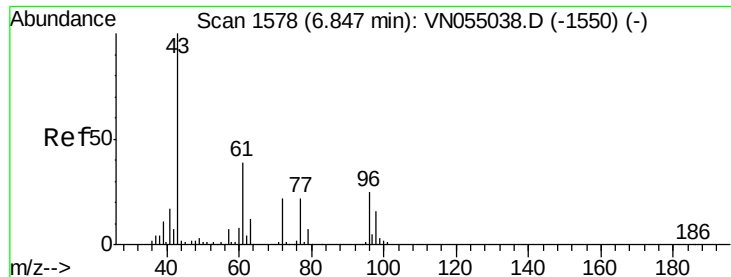
MMDadoda
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#24
 1,1-Dichloroethane
 Concen: 20.440 ug/l
 RT: 5.85 min Scan# 1269
 Delta R.T. 0.01 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Tgt Ion: 63 Resp: 160849
 Ion Ratio Lower Upper
 63 100
 98 6.1 2.8 8.4
 100 4.5 2.0 5.8





#25

2-Butanone

Concen: 117.193 ug/l

RT: 6.84 min Scan# 1576

Delta R.T. -0.01 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

ClientSampleId :

VN0419WBSD02

Tot Ion: 43 Resp: 233488

Ion Ratio Lower Upper

43 100

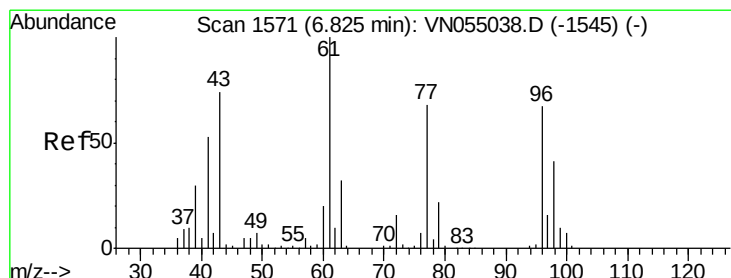
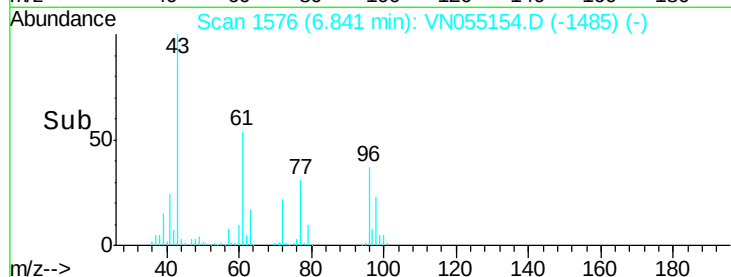
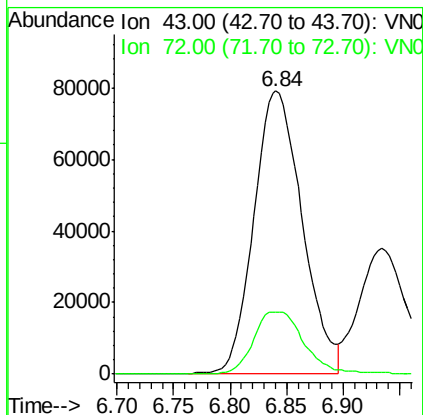
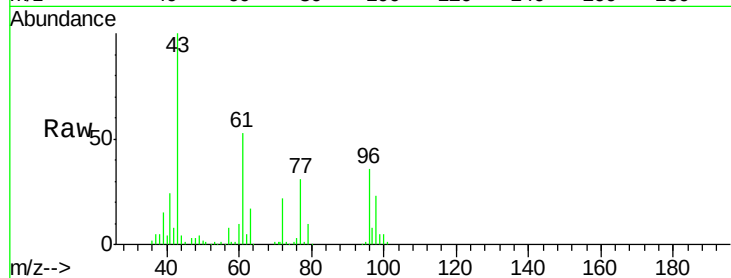
72 21.9 18.1 27.1

Manual Integrations

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#26

2,2-Dichloropropane

Concen: 18.663 ug/l

RT: 6.83 min Scan# 1573

Delta R.T. 0.01 min

Lab File: VN055154.D

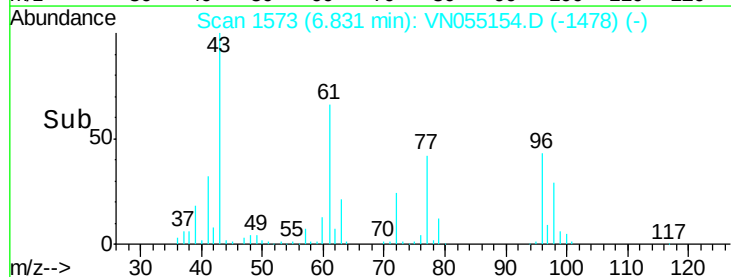
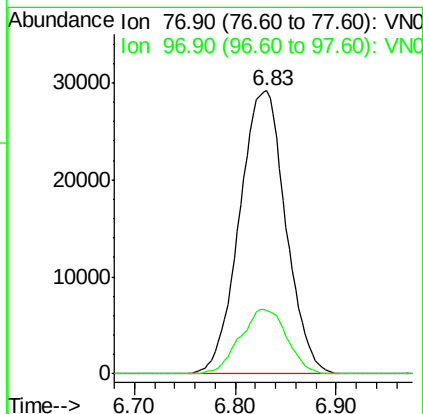
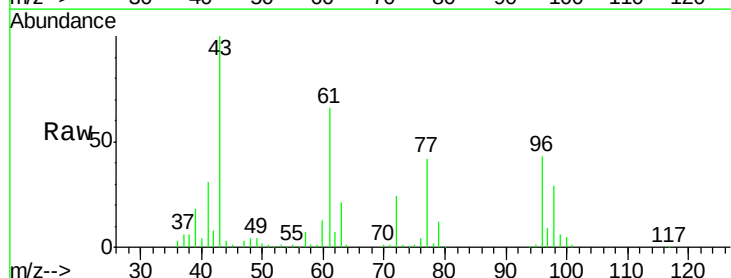
Acq: 19 Apr 2019 22:03

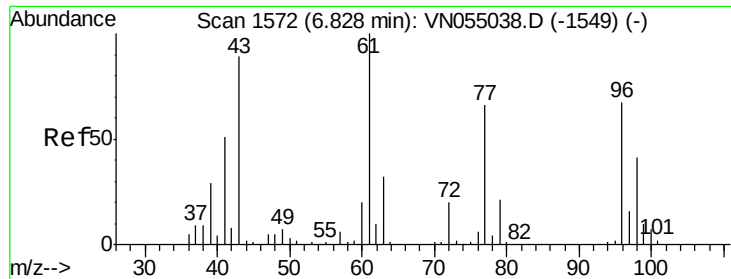
Tgt Ion: 77 Resp: 92696

Ion Ratio Lower Upper

77 100

97 23.1 11.3 33.9





#27

cis-1,2-Dichloroethene

Concen: 20.074 ug/l

RT: 6.83 min Scan# 1574

Delta R.T. 0.01 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

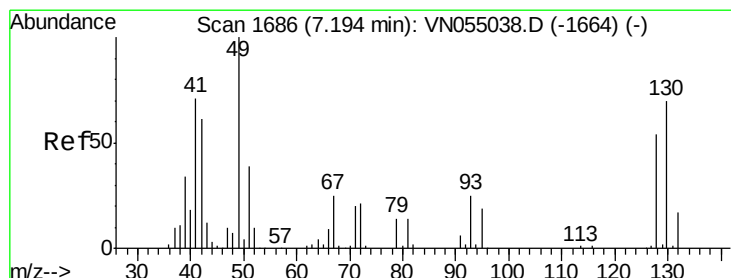
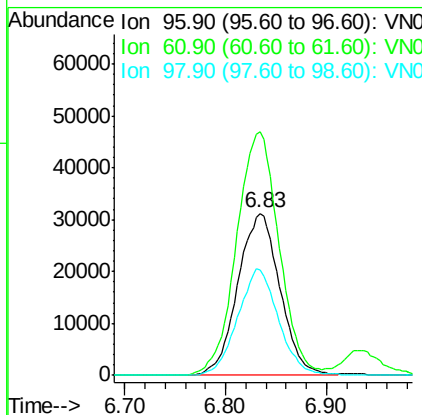
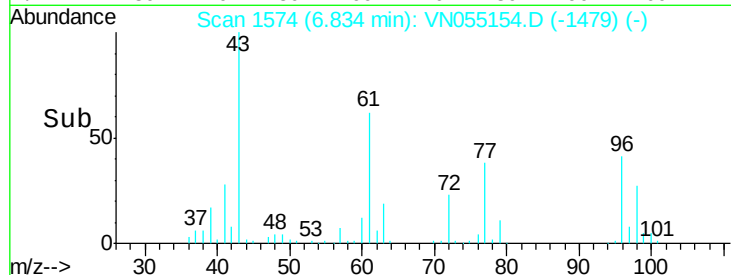
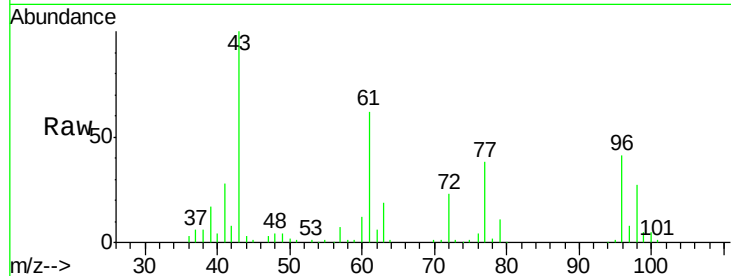
ClientSampleId :

VN0419WBSD02

Tot Ion:	96	Resp:	90205
Ion Ratio	Lower	Upper	
96	100		
61	151.6	0.0	311.0
98	63.4	0.0	127.4

Manual Integrations
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#28

Bromochloromethane

Concen: 20.796 ug/l

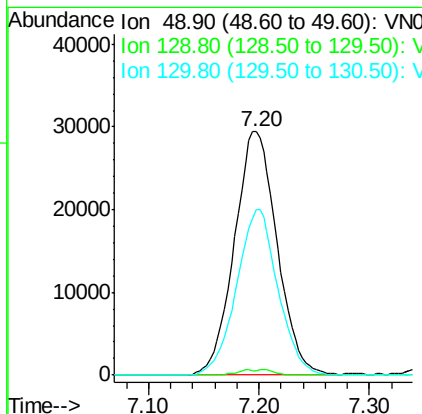
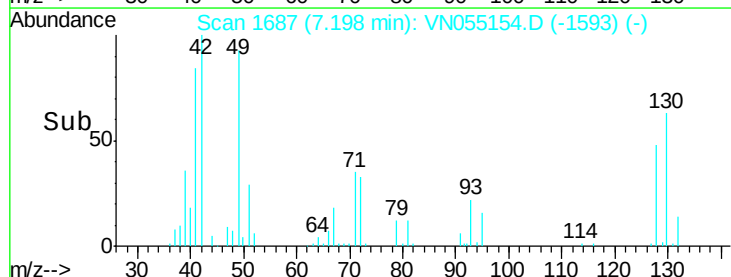
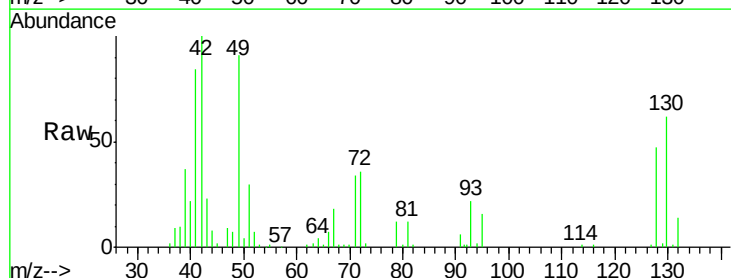
RT: 7.20 min Scan# 1687

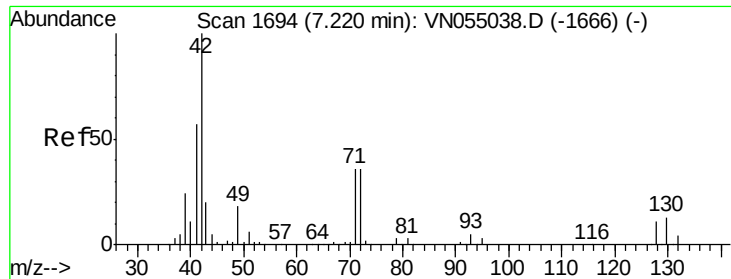
Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Tgt Ion:	49	Resp:	78888
Ion Ratio	Lower	Upper	
49	100		
129	0.8	0.0	2.0
130	65.7	53.4	80.2





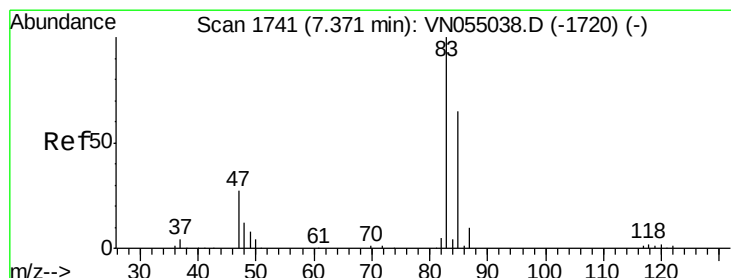
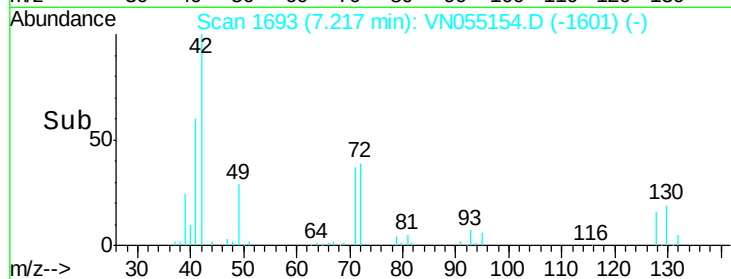
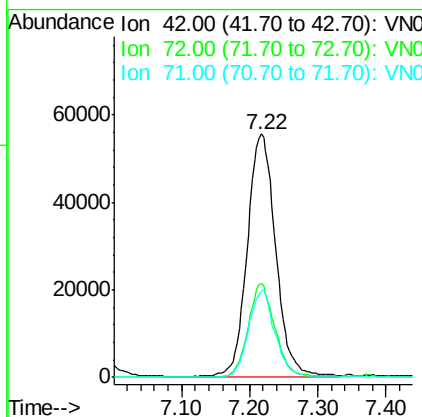
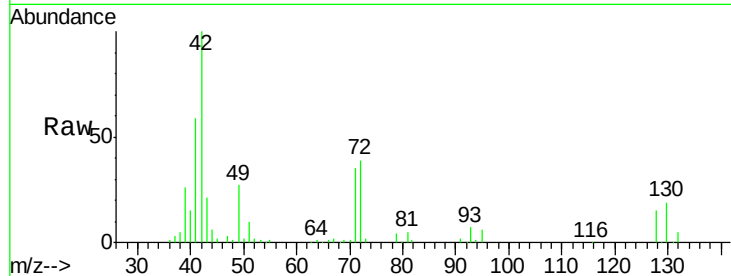
#29
Tetrahydrofuran
Concen: 122.494 ug/l
RT: 7.22 min Scan# 1693
Delta R.T. -0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Instrument :
MSVOA_N
ClientSampled :
VN0419WBSD02

Tot Ion	Ratio	Lower	Upper
42	100		
72	36.6	29.4	44.0
71	33.6	27.8	41.6

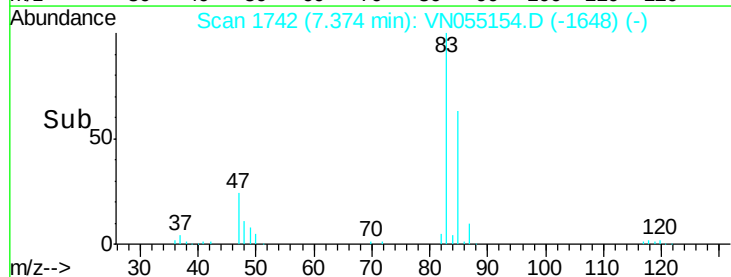
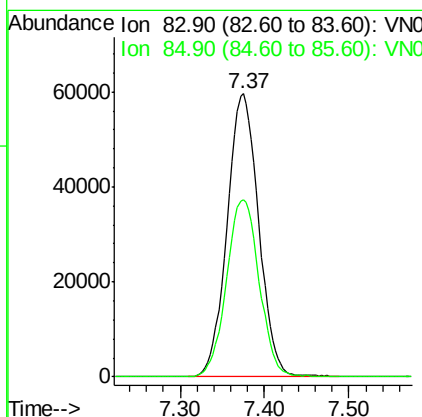
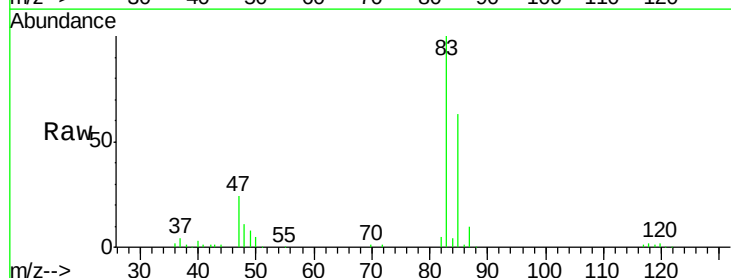
Manual Integrations
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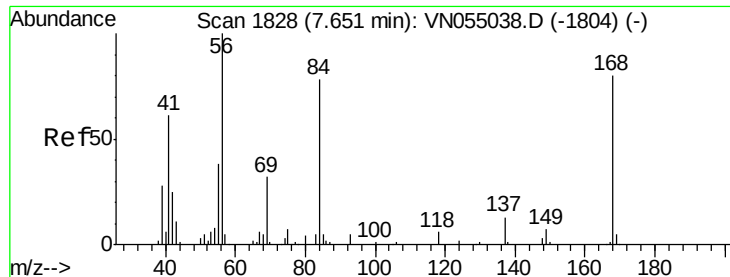
MMDadoda
4/22/2019 10:07:34 AM



#30
Chloroform
Concen: 20.298 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion	Ratio	Lower	Upper
83	100		
85	62.8	51.8	77.6





#31

Cyclohexane

Concen: 19.231 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

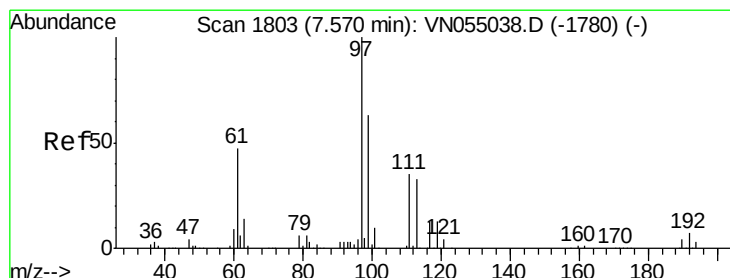
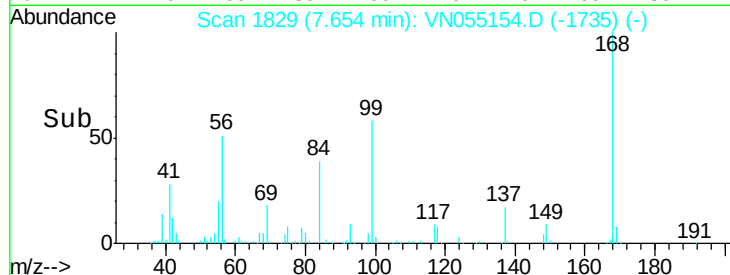
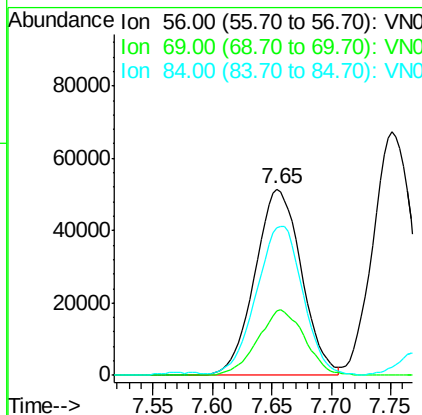
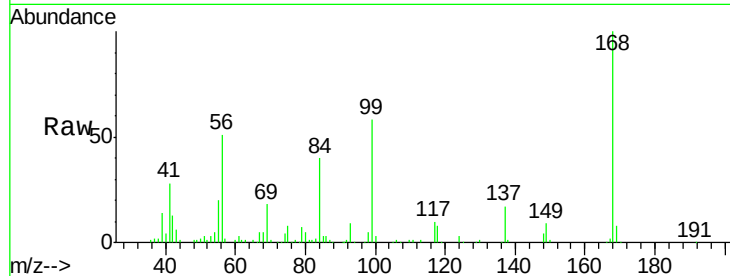
ClientSampleId :

VN0419WBSD02

Tot Ion	56	Resp	139150
Ion	Ratio	Lower	Upper
56	100		
69	34.7	24.5	36.7
84	77.7	62.9	94.3

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:34 AM



#32

1,1,1-Trichloroethane

Concen: 20.166 ug/l

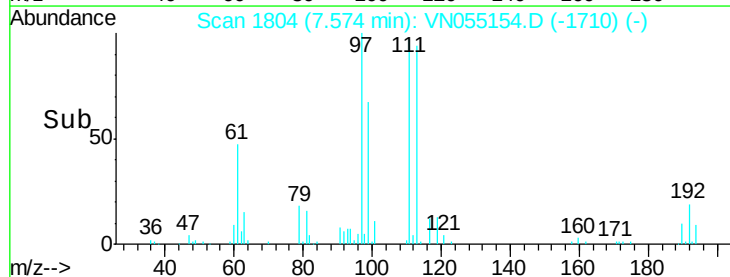
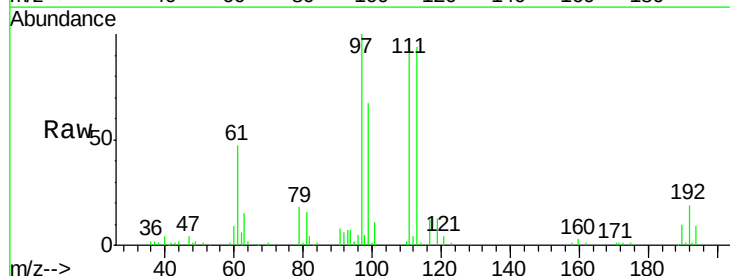
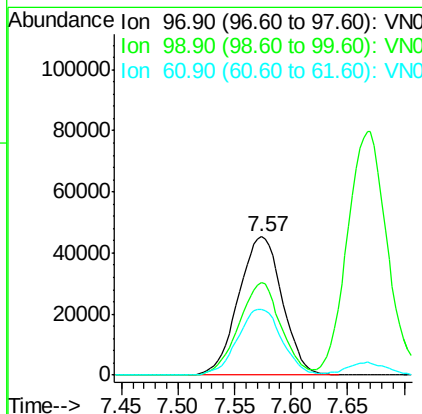
RT: 7.57 min Scan# 1804

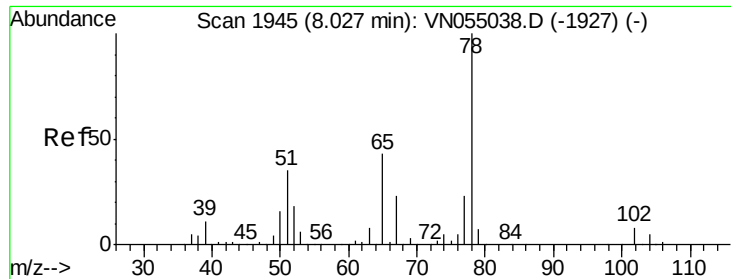
Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Tgt Ion	97	Resp	122124
Ion	Ratio	Lower	Upper
97	100		
99	63.9	51.6	77.4
61	48.0	38.3	57.5





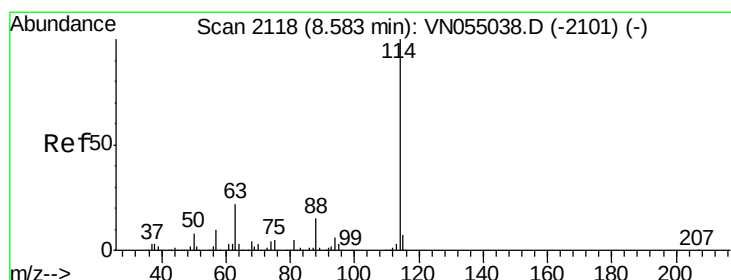
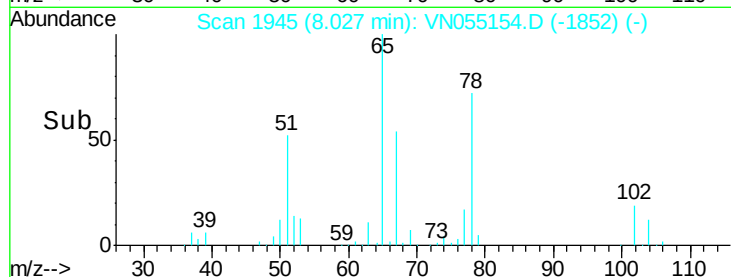
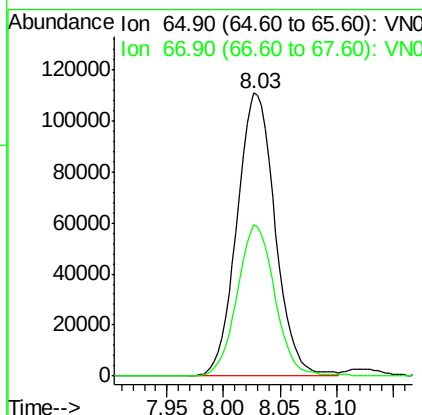
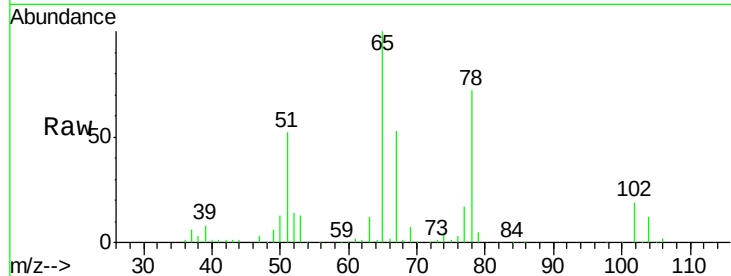
#33
 1,2-Dichloroethane-d4
 Concen: 52.940 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0419WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
65	100	260375		
67	52.5	0.0	106.4	

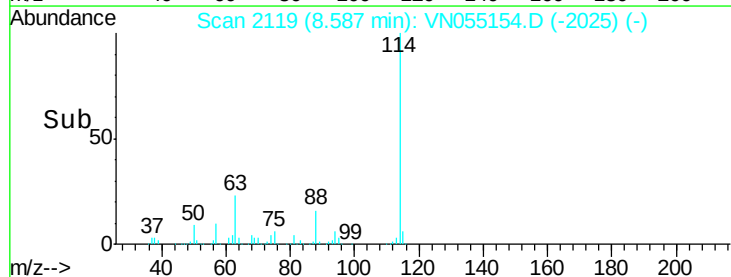
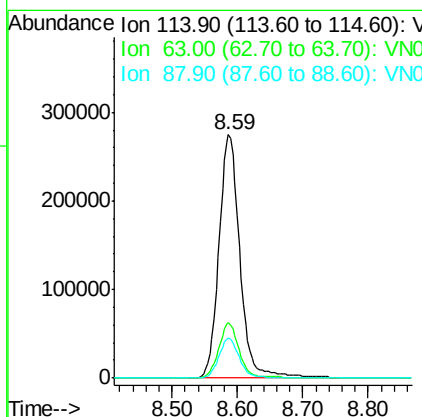
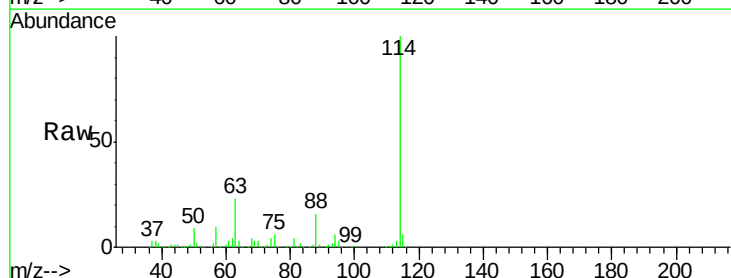
Manual Integrations
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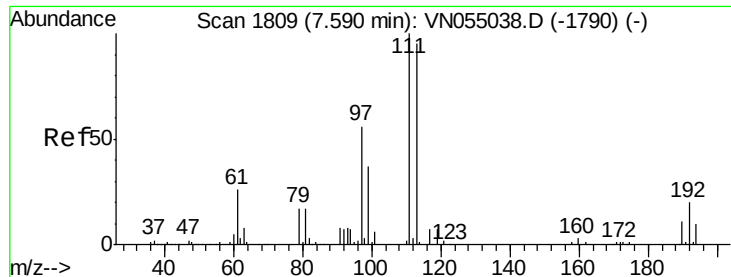
MMDadoda
 4/22/2019 10:07:34 AM



#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	614980		
63	22.7	0.0	45.2	
88	16.3	0.0	31.8	





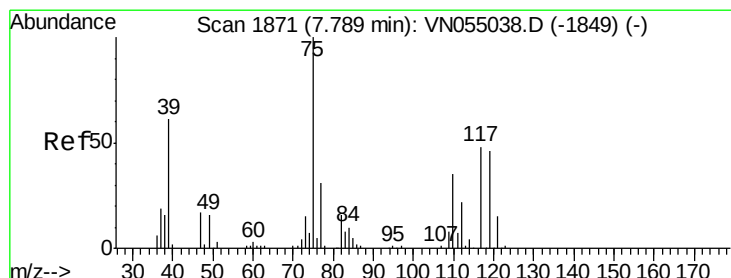
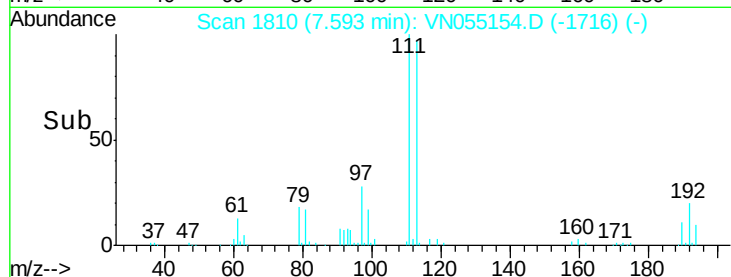
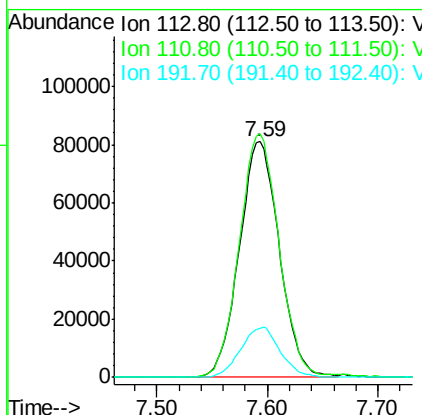
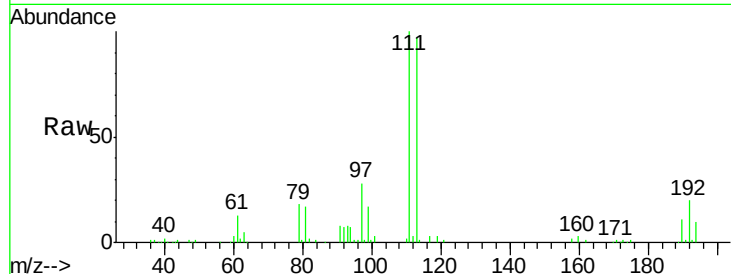
#35
 Dibromofluoromethane
 Concen: 49.536 ug/l
 RT: 7.59 min Scan# 1810
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0419WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.5	82.1	123.1	
192	21.1	16.5	24.7	

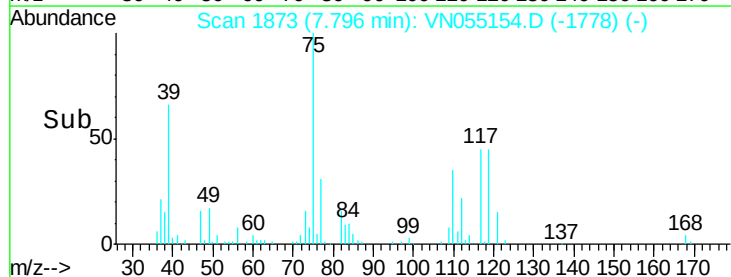
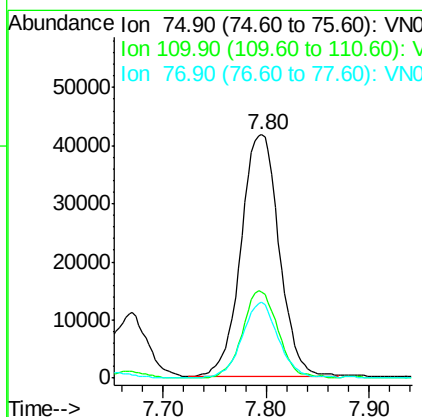
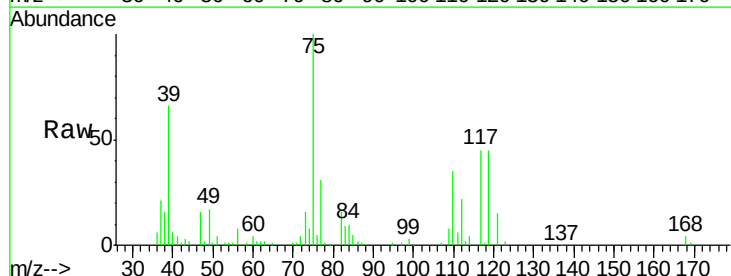
Manual Integrations
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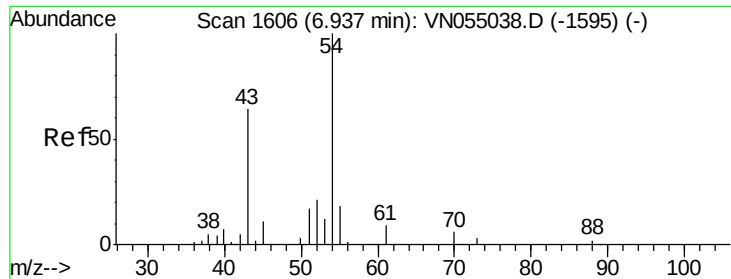
MMDadoda
 4/22/2019 10:07:34 AM



#36
 1,1-Dichloropropene
 Concen: 18.522 ug/l
 RT: 7.80 min Scan# 1873
 Delta R.T. 0.01 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	33.6	17.5	52.5	
77	29.8	24.9	37.3	





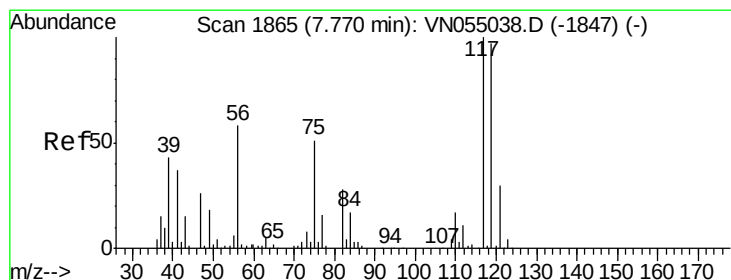
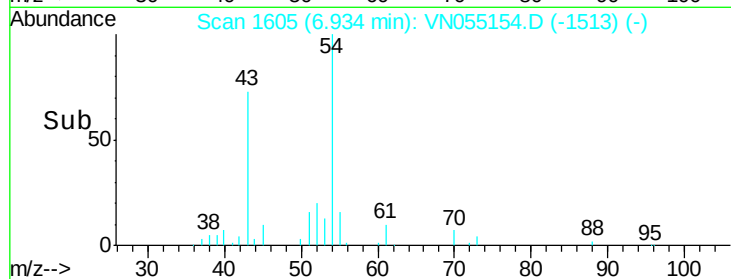
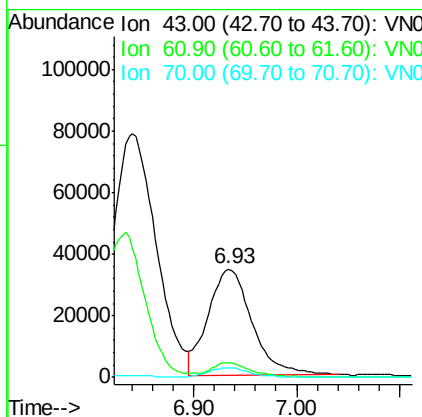
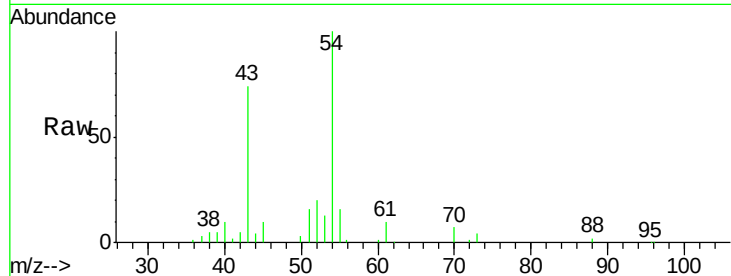
#37
Ethyl Acetate
Concen: 21.746 ug/l
RT: 6.93 min Scan# 1605
Delta R.T. -0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Instrument :
MSVOA_N
ClientSampleID :
VN0419WBSD02

Tot Ion	43	61	70
Resp	102632		
Ratio	100	10.8	8.4
Lower		10.0	7.1
Upper		15.0	10.7

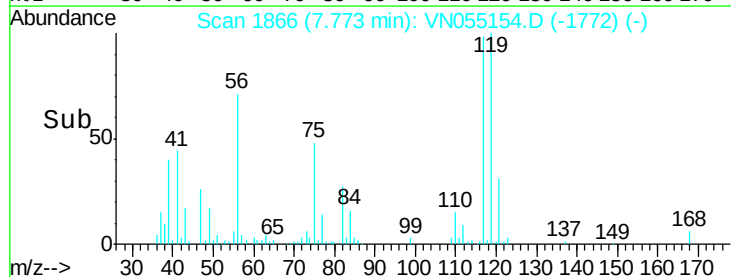
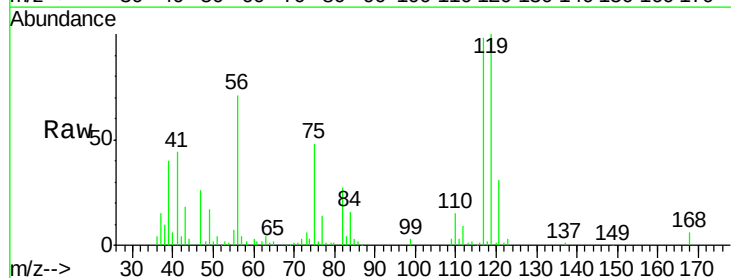
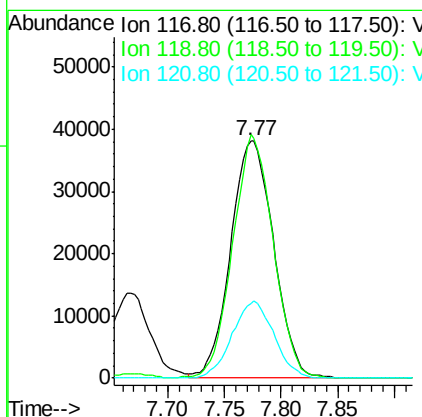
Manual Integrations
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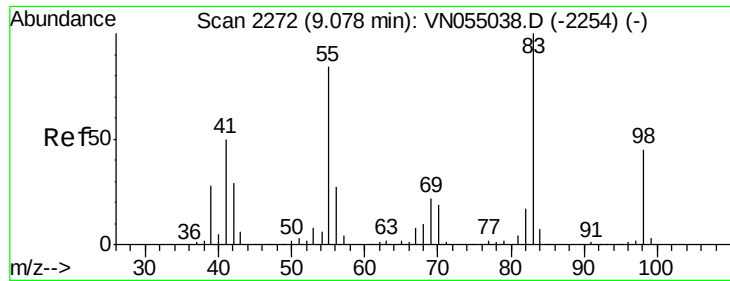
MMDadoda
4/22/2019 10:07:34 AM



#38
Carbon Tetrachloride
Concen: 18.298 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion	117	119	121
Resp	100927		
Ratio	100	102.4	31.6
Lower		76.3	23.9
Upper		114.5	35.9





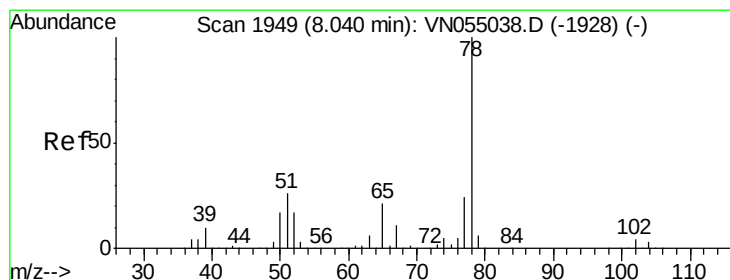
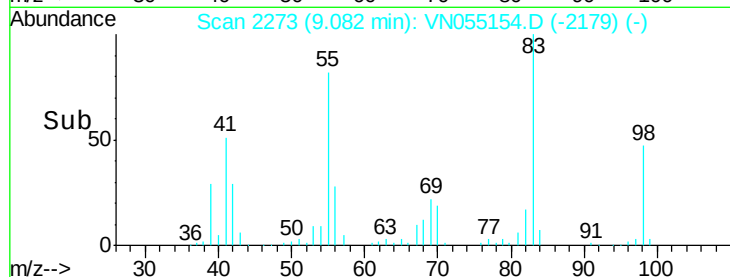
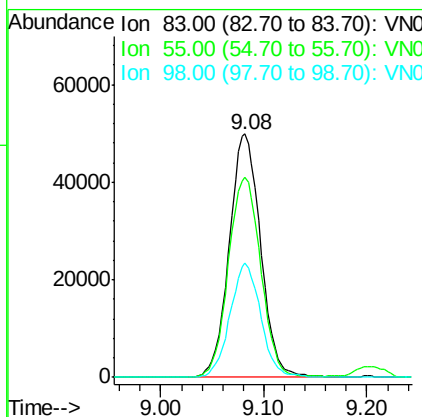
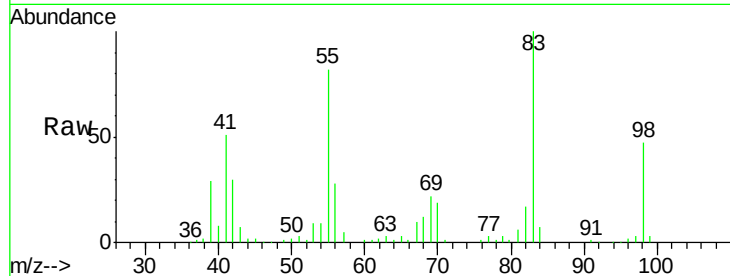
#39
Methylvlcyclohexane
Concen: 16.810 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Instrument :
MSVOA_N
ClientSampleId :
VN0419WBSD02

Tot Ion	83	Resp	105606
Ion Ratio	Lower	Upper	
83	100		
55	82.2	67.0	100.4
98	46.8	35.6	53.4

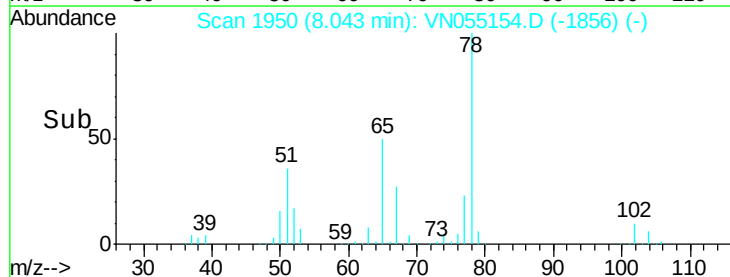
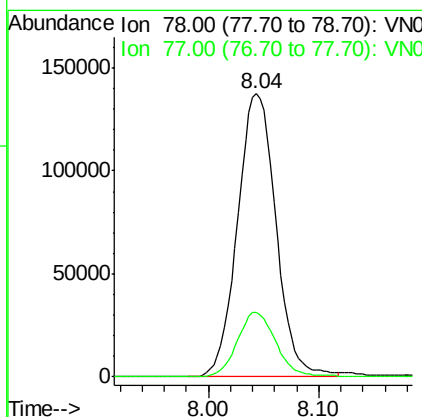
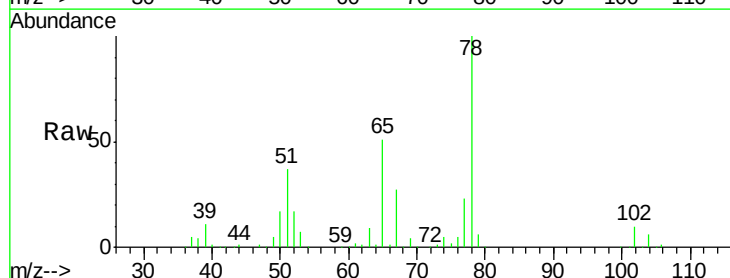
Manual Integrations
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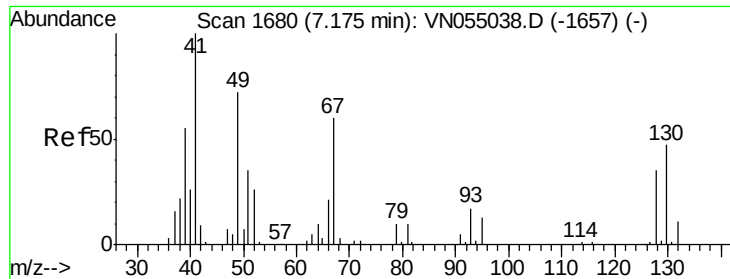
MMDadoda
4/22/2019 10:07:34 AM



#40
Benzene
Concen: 19.089 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion	78	Resp	333535
Ion Ratio	Lower	Upper	
78	100		
77	22.9	18.8	28.2





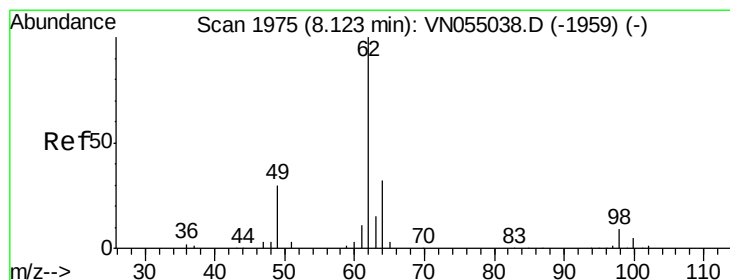
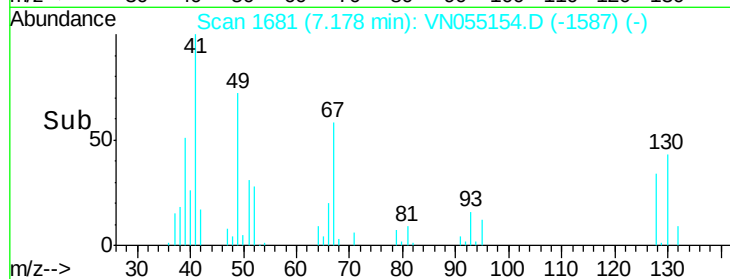
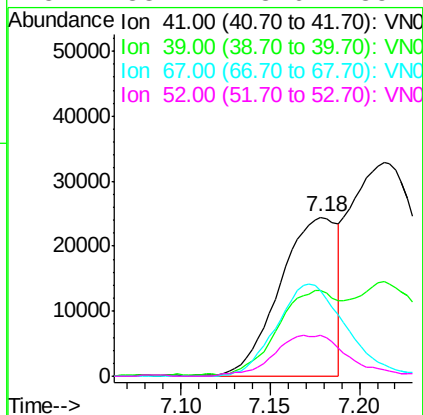
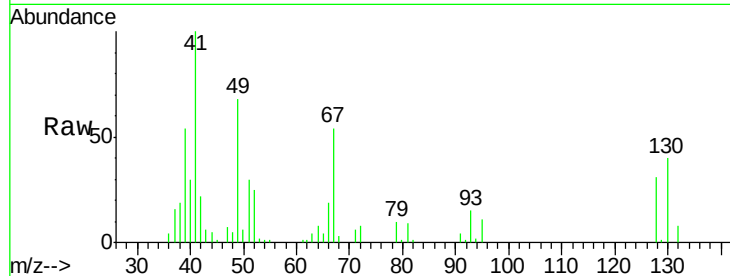
#41
Methacrylonitrile
Concen: 20.910 ug/l
RT: 7.18 min Scan# 1681
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Instrument :
MSVOA_N
ClientSampleId :
VN0419WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	57.1	45.6	68.4	
67	71.6	57.0	85.6	
52	33.2	23.6	35.4	

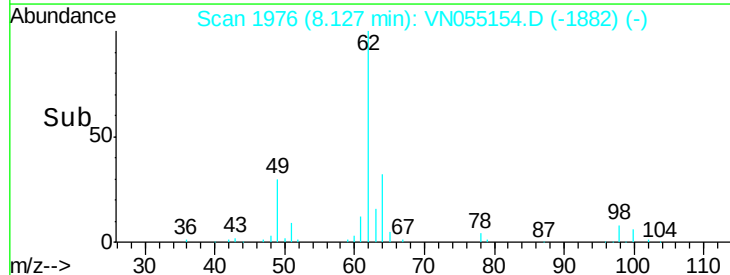
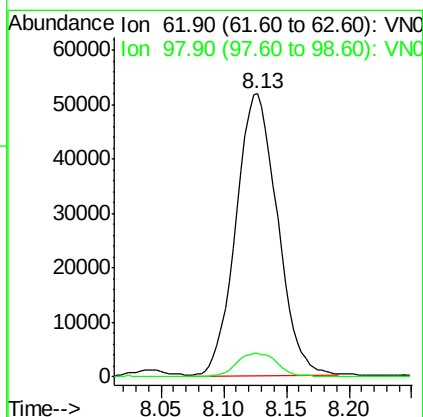
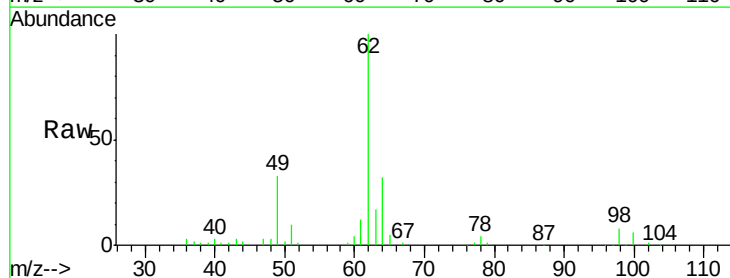
Manual Integrations
APPROVED

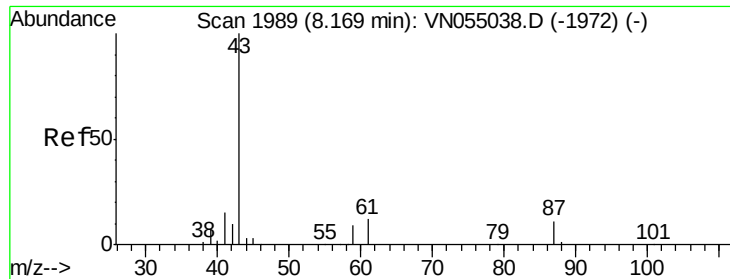
MMDadoda
4/22/2019 10:07:34 AM



#42
1,2-Dichloroethane
Concen: 19.638 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	8.4	0.0	17.4	





#43

Isopropyl Acetate

Concen: 23.910 ug/l

RT: 8.17 min Scan# 1988

Delta R.T. -0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

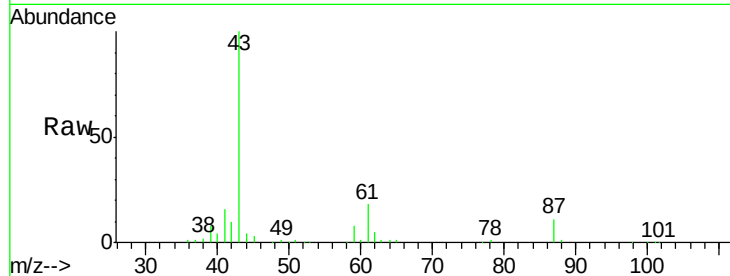
ClientSampleId :

VN0419WBSD02

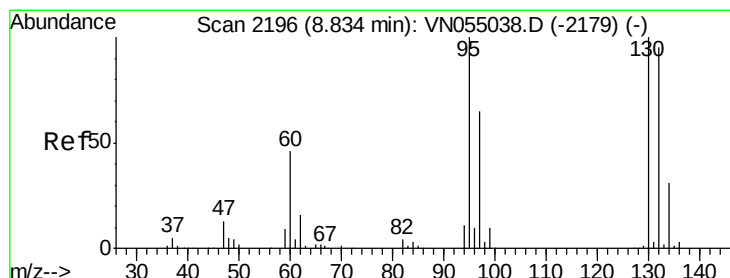
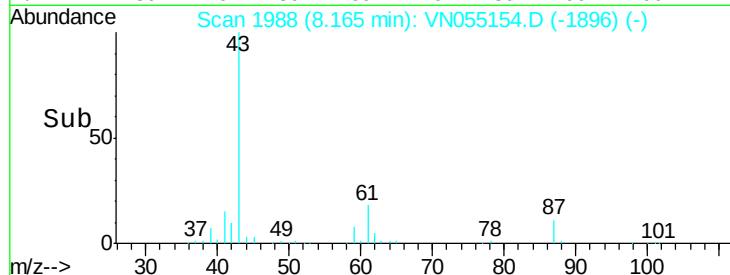
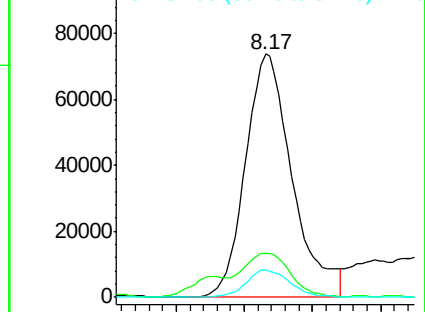
Tot Ion:	43	Resp:	173886
Ion	Ratio	Lower	Upper
43	100		
61	17.8	14.3	21.5
87	10.7	8.6	13.0

Manual Integrations
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4/22/2019 10:07:34 AM



Abundance Ion 43.00 (42.70 to 43.70): VN055154.D (-1896) (-)



#44

Trichloroethene

Concen: 19.137 ug/l

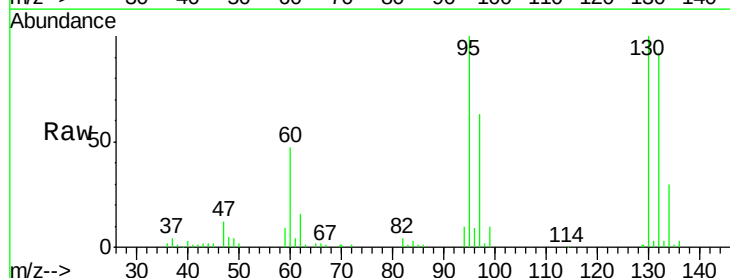
RT: 8.84 min Scan# 2197

Delta R.T. 0.00 min

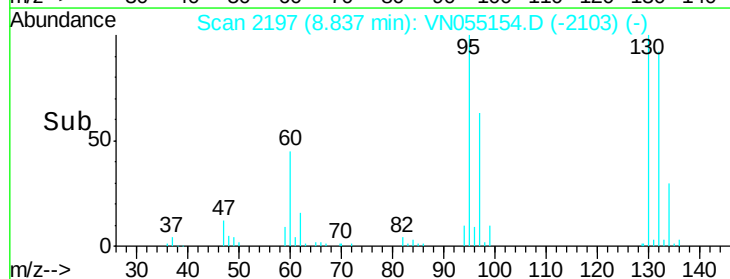
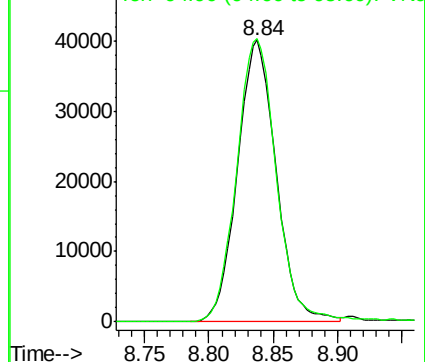
Lab File: VN055154.D

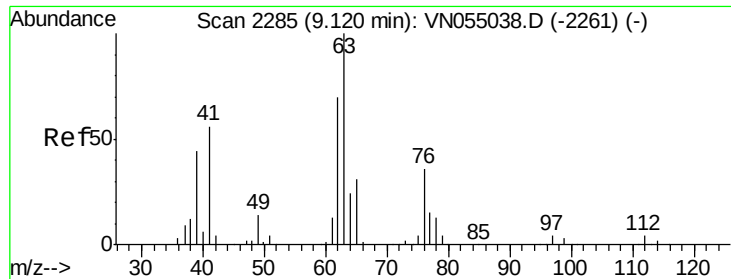
Acq: 19 Apr 2019 22:03

Tgt Ion:	130	Resp:	83753
Ion	Ratio	Lower	Upper
130	100		
95	100.5	0.0	201.6



Abundance Ion 129.80 (129.50 to 130.50): VN055154.D (-2103) (-)





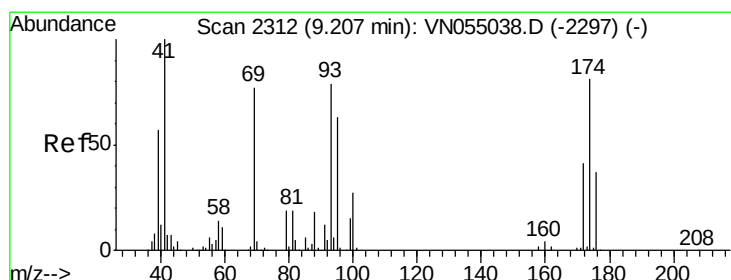
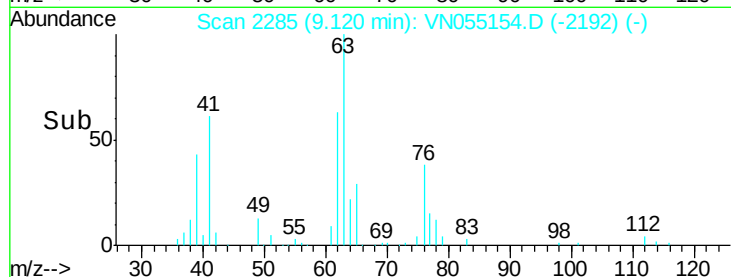
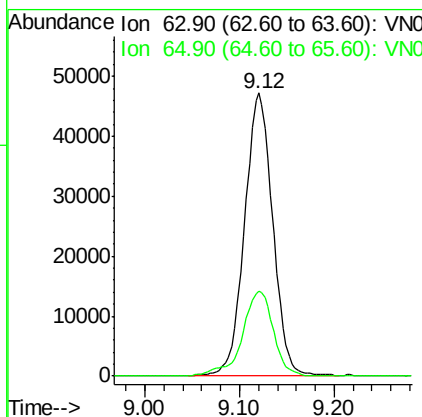
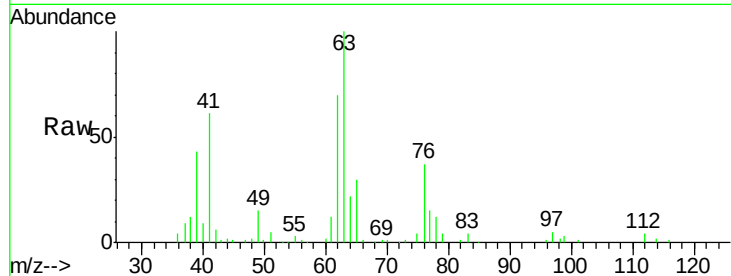
#45
 1,2-Dichloropropane
 Concen: 20.093 ug/l
 RT: 9.12 min Scan# 2285
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Instrument :
 MSVOA_N
 ClientSampleID :
 VN0419WBSD02

Tot Ion: 63 Resp: 97911
 Ion Ratio Lower Upper
 63 100
 65 30.2 24.4 36.6

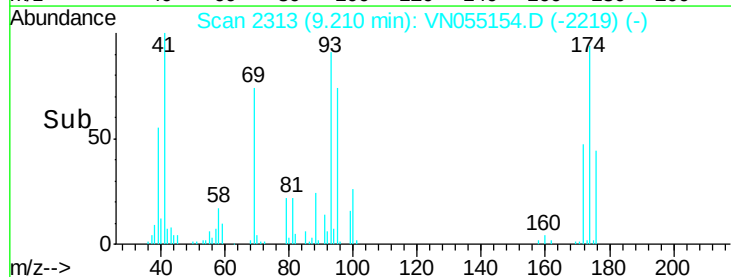
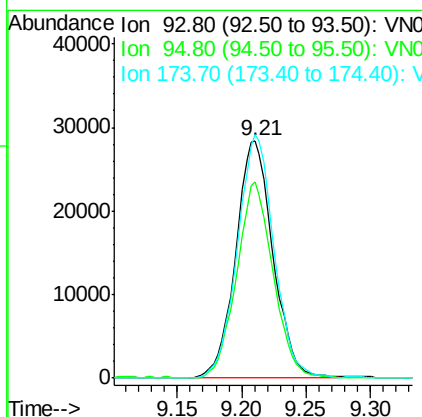
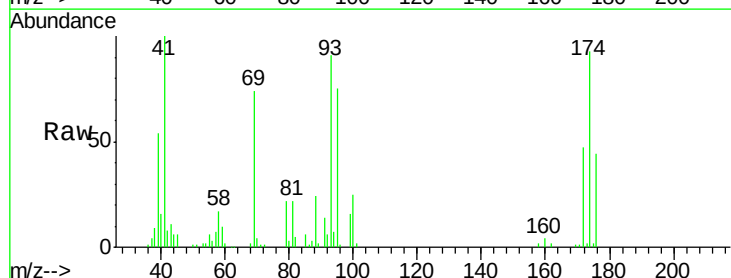
Manual Integrations
 APPROVED

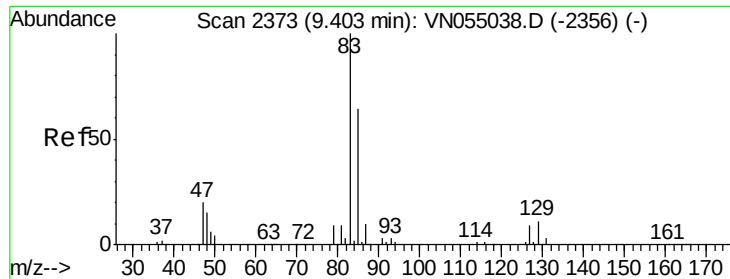
MMDadoda
 4/22/2019 10:07:34 AM



#46
 Dibromomethane
 Concen: 20.562 ug/l
 RT: 9.21 min Scan# 2313
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Tgt Ion: 93 Resp: 57031
 Ion Ratio Lower Upper
 93 100
 95 80.8 65.0 97.6
 174 101.0 81.0 121.6





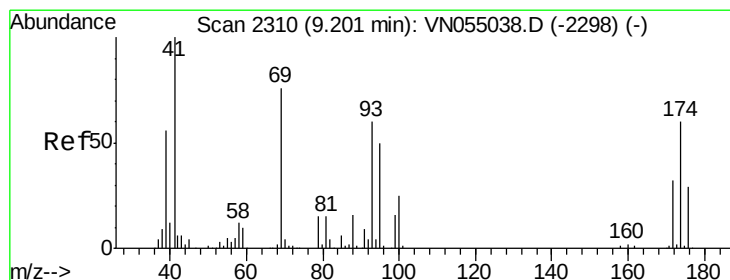
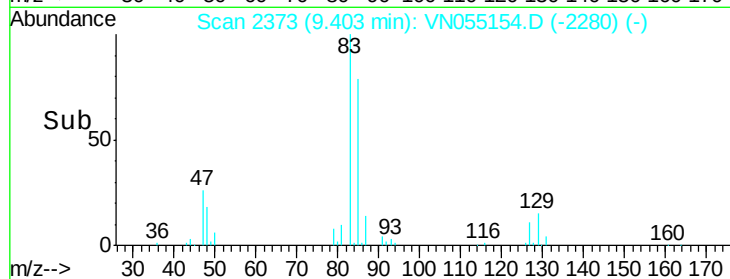
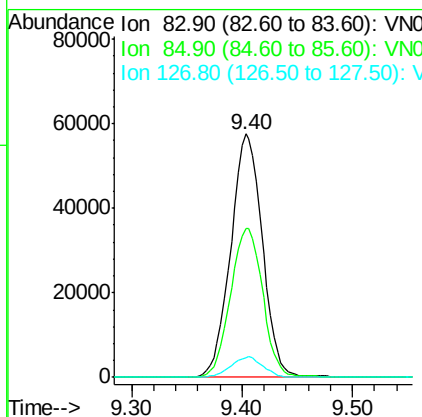
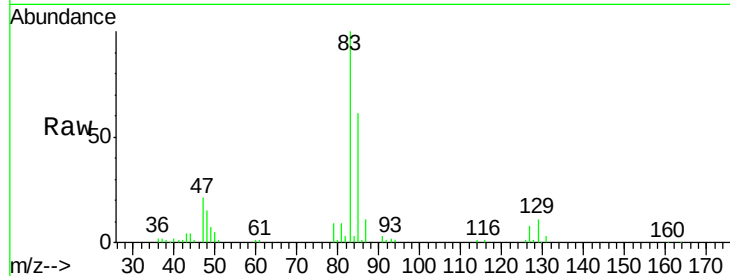
#47
Bromodichloromethane
Concen: 20.051 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Instrument :
MSVOA_N
ClientSampleId :
VN0419WBSD02

Tot Ion	83	Resp	114659
Ion Ratio	100	Lower	Upper
83	100		
85	61.3	51.2	76.8
127	8.3	6.8	10.2

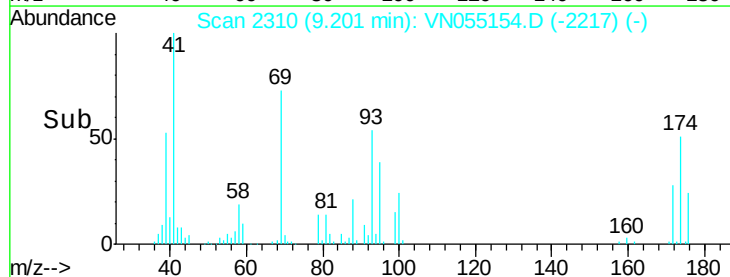
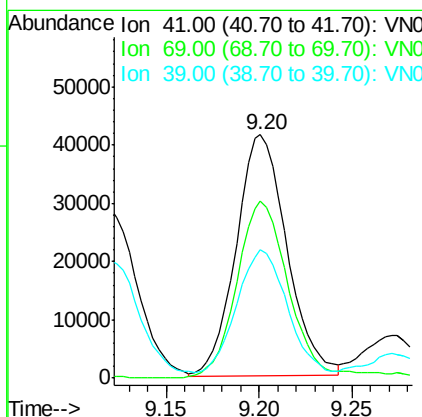
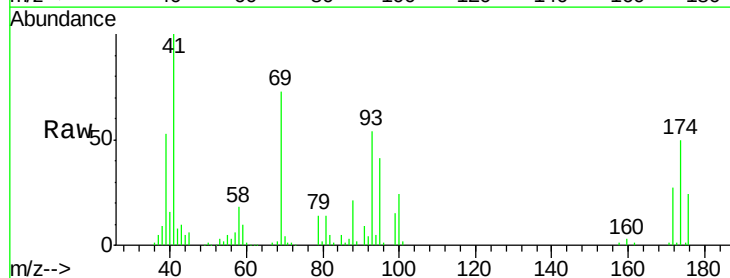
Manual Integrations
APPROVED

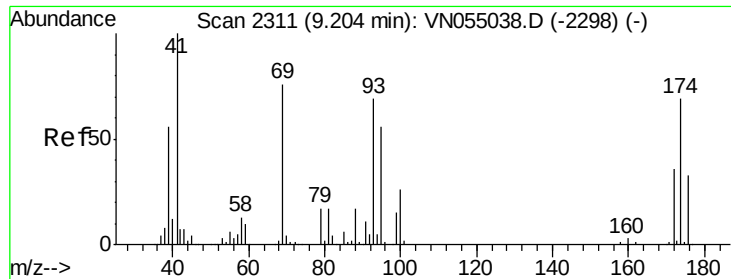
MMDadoda
4/22/2019 10:07:34 AM



#48
Methyl methacrylate
Concen: 21.922 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion	41	Resp	79020
Ion Ratio	100	Lower	Upper
41	100		
69	75.4	60.5	90.7
39	52.8	43.9	65.9





#49

1,4-Dioxane

Concen: 556.187 ug/l

RT: 9.20 min Scan# 2309

Delta R.T. -0.01 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

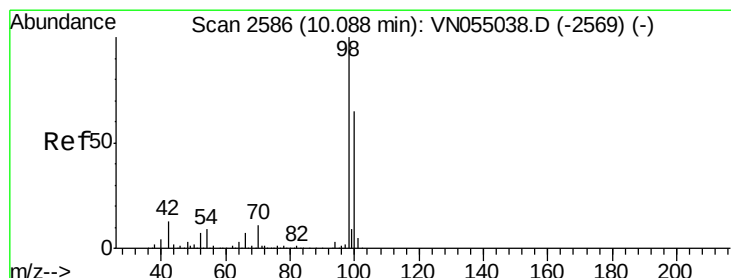
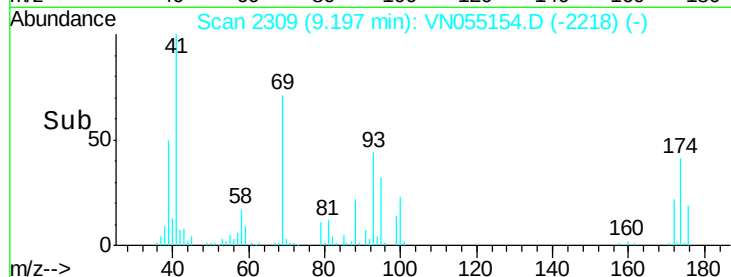
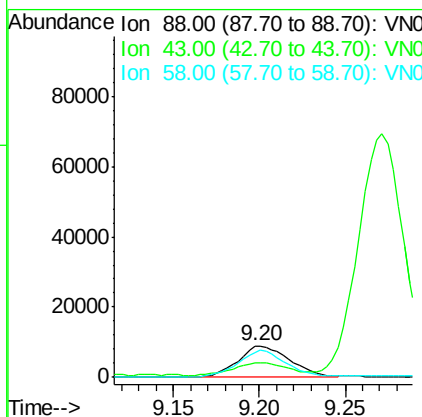
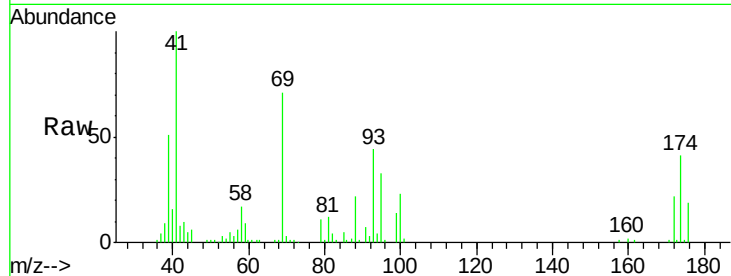
ClientSampleId :

VN0419WBSD02

Tot Ion:	88	Resp:	18783
Ion	Ratio	Lower	Upper
88	100		
43	39.4	31.8	47.8
58	80.1	61.6	92.4

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:34 AM



#50

Toluene-d8

Concen: 49.416 ug/l

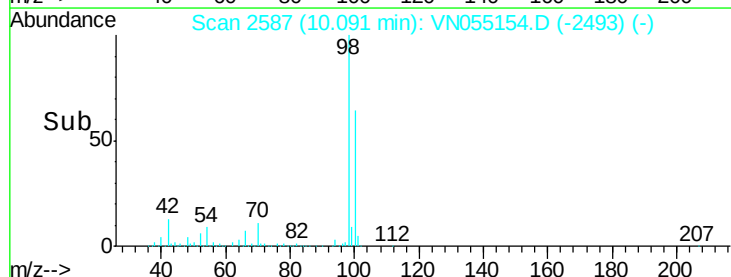
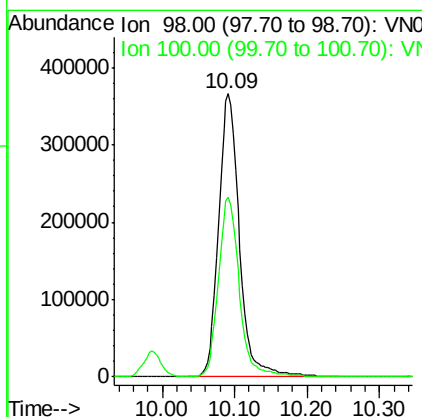
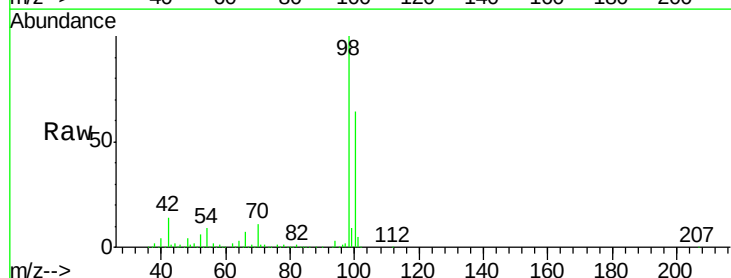
RT: 10.09 min Scan# 2587

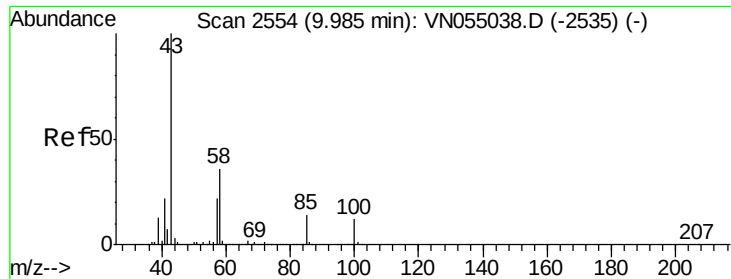
Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Tgt Ion:	98	Resp:	726901
Ion	Ratio	Lower	Upper
98	100		
100	64.2	51.1	76.7





#51

4-Methyl-2-Pentanone

Concen: 117.852 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

ClientSampleId :

VN0419WBSD02

Tot Ion: 43 Resp: 495150

Ion Ratio Lower Upper

43 100

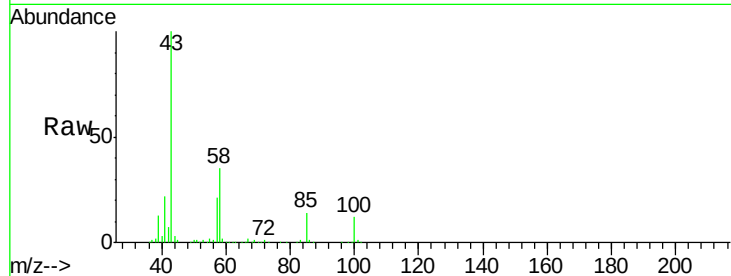
58 35.0 29.0 43.4

Manual Integrations

APPROVED

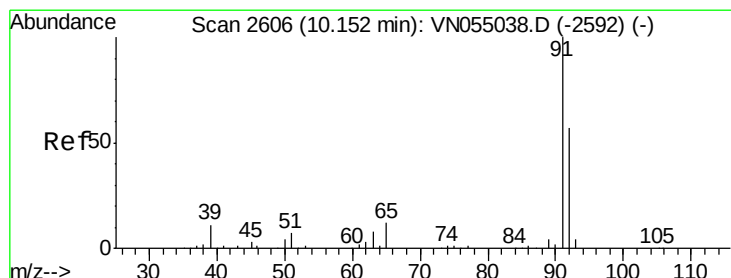
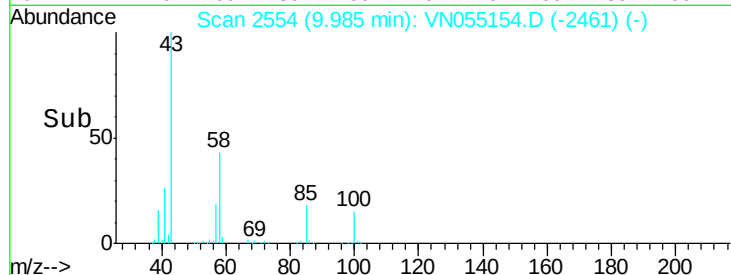
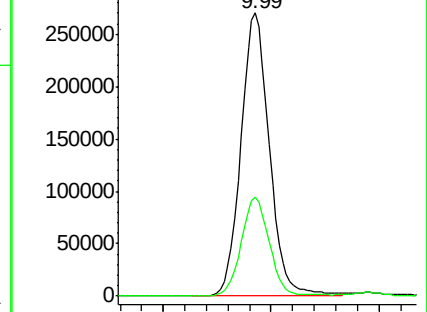
MMDadoda

4/22/2019 10:07:34 AM



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 58.00 (57.70 to 58.70): VN0



#52

Toluene

Concen: 19.457 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN055154.D

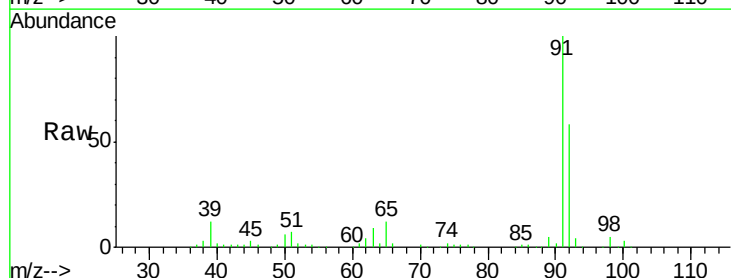
Acq: 19 Apr 2019 22:03

Tgt Ion: 92 Resp: 194711

Ion Ratio Lower Upper

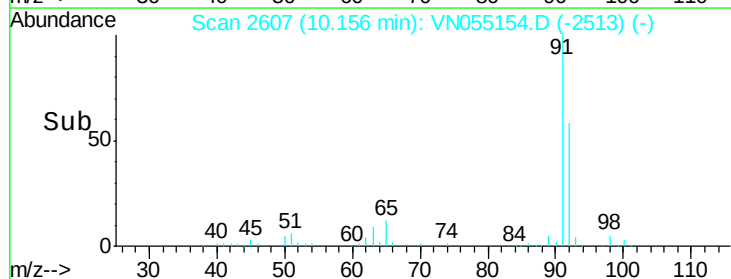
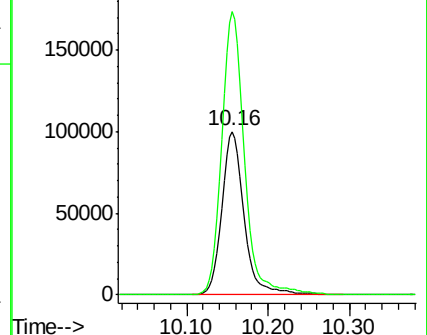
92 100

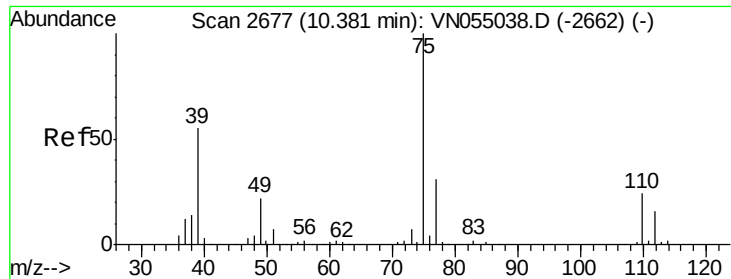
91 176.1 140.8 211.2



Abundance Ion 92.00 (91.70 to 92.70): VN0

Ion 91.00 (90.70 to 91.70): VN0





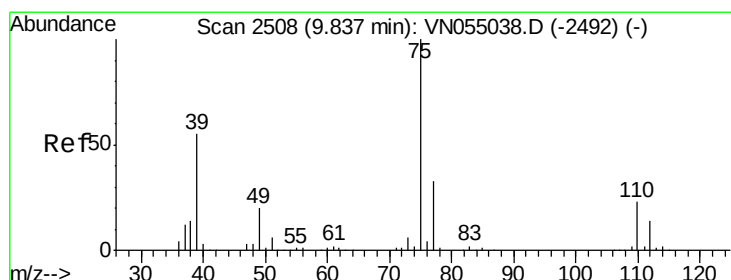
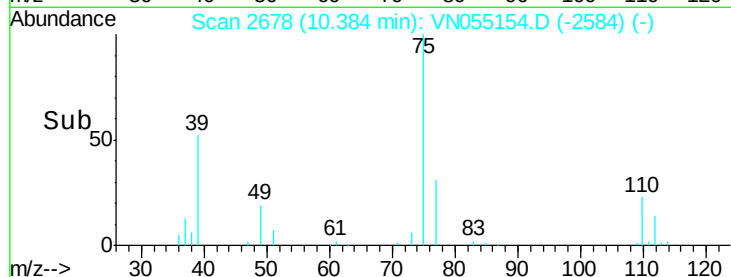
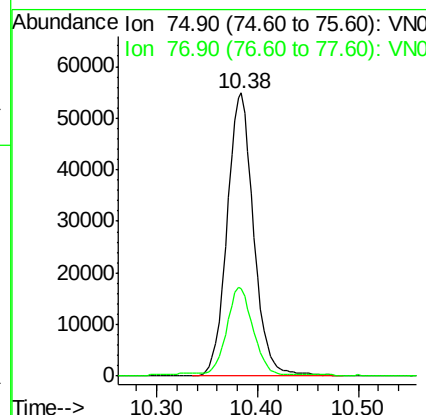
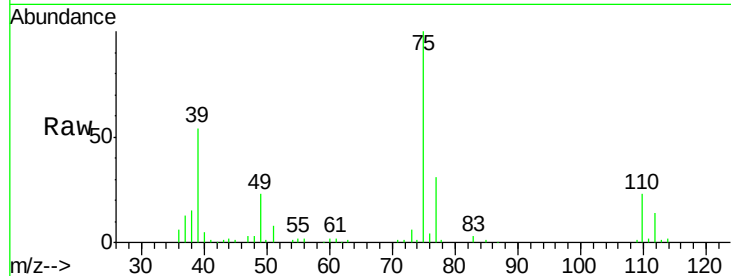
#53
t-1,3-Dichloropropene
Concen: 20.197 ug/l
RT: 10.38 min Scan# 2678
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Instrument :
MSVOA_N
ClientSampleId :
VN0419WBSD02

Tot Ion: 75 Resp: 100929
Ion Ratio Lower Upper
75 100
77 31.1 24.6 37.0

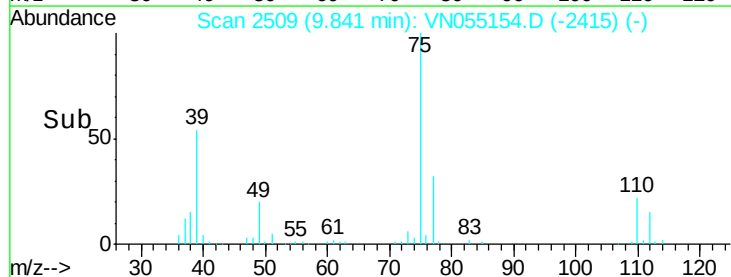
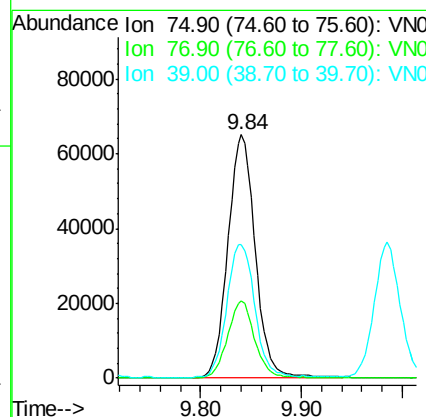
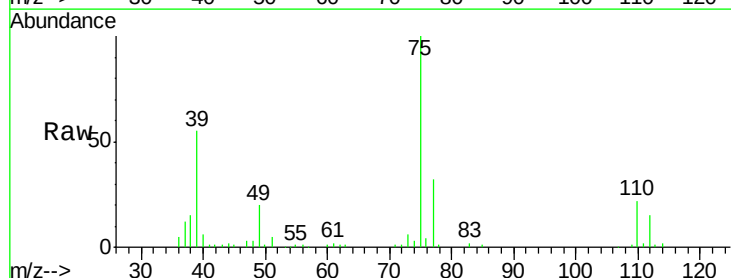
Manual Integrations
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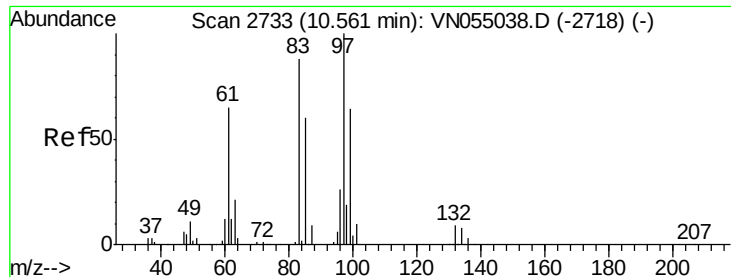
MMDadoda
4/22/2019 10:07:34 AM



#54
cis-1,3-Dichloropropene
Concen: 19.963 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion: 75 Resp: 123816
Ion Ratio Lower Upper
75 100
77 31.6 25.8 38.6
39 54.3 43.8 65.8





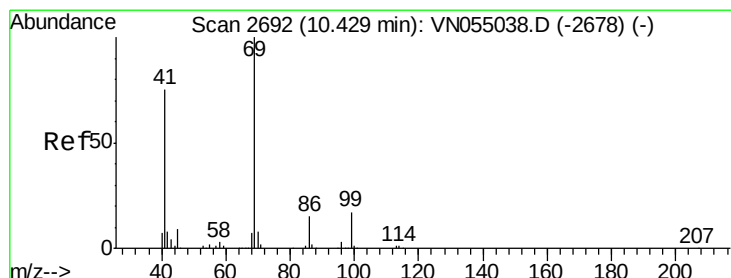
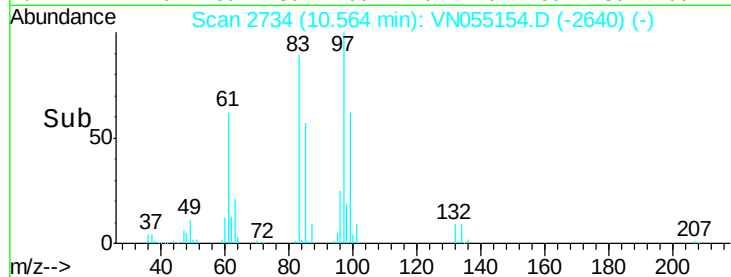
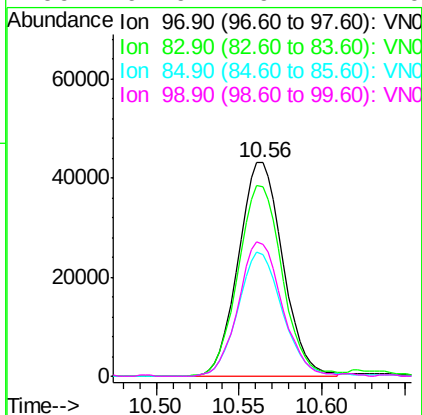
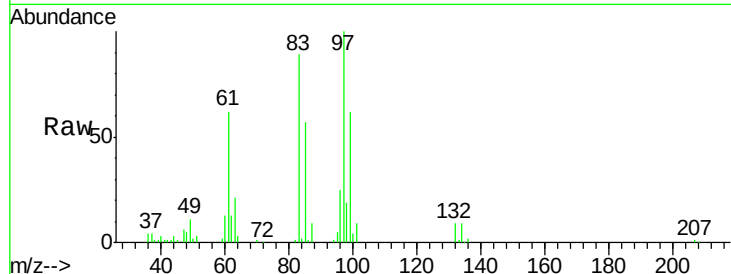
#55
 1,1,2-Trichloroethane
 Concen: 20.807 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0419WBSD02

Tot Ion:	97	Resp:	80222
Ion	Ratio	Lower	Upper
97	100		
83	89.0	70.5	105.7
85	56.9	45.5	68.3
99	61.9	49.4	74.0

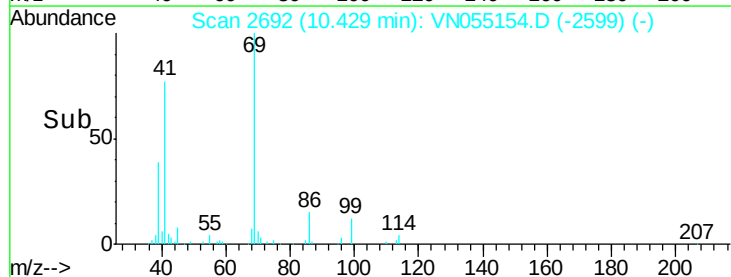
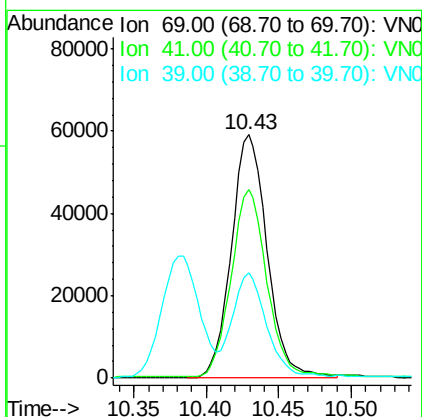
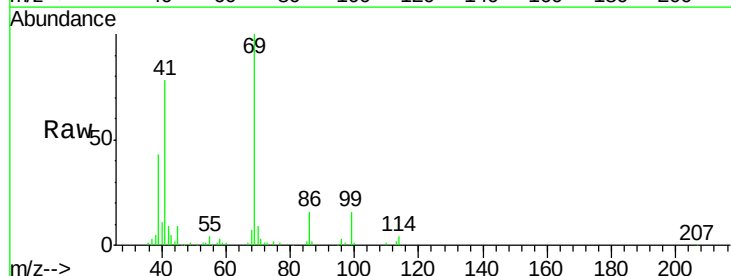
Manual Integrations
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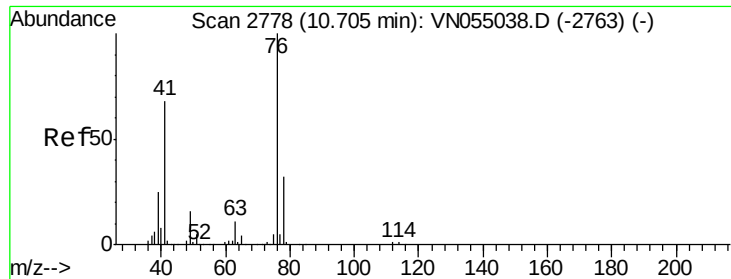
MMDadoda
 4/22/2019 10:07:34 AM



#56
 Ethyl methacrylate
 Concen: 21.940 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Tgt Ion:	69	Resp:	101520
Ion	Ratio	Lower	Upper
69	100		
41	77.1	61.4	92.0
39	40.3	30.8	46.2





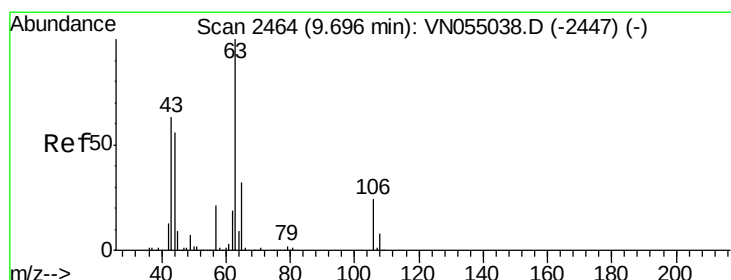
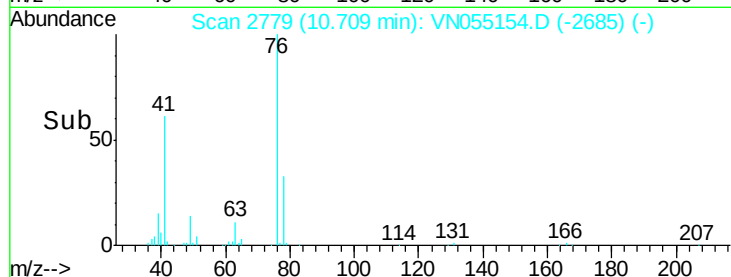
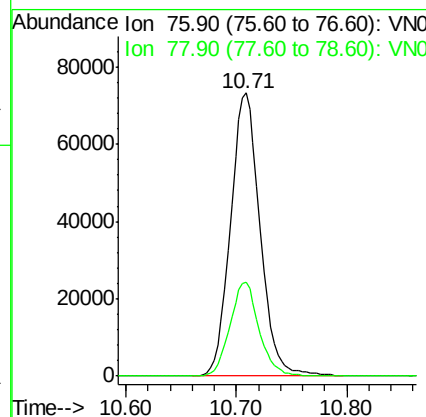
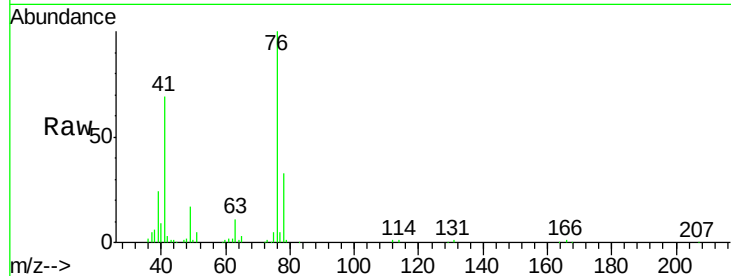
#57
 1,3-Dichloropropane
 Concen: 20.725 ug/l
 RT: 10.71 min Scan# 2779
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0419WBSD02

Tot Ion: 76 Resp: 136047
 Ion Ratio Lower Upper
 76 100
 78 32.6 25.6 38.4

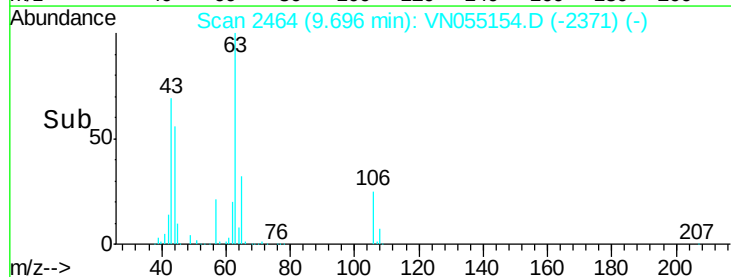
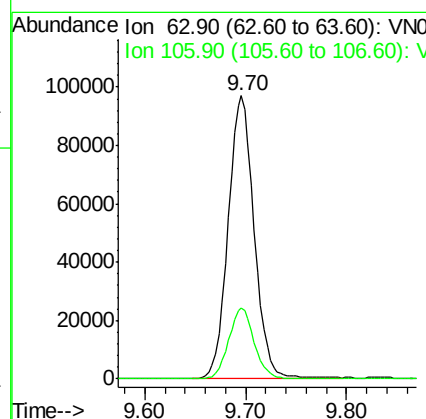
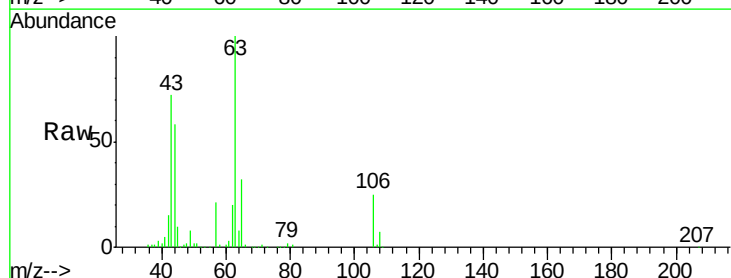
Manual Integrations
 APPROVED

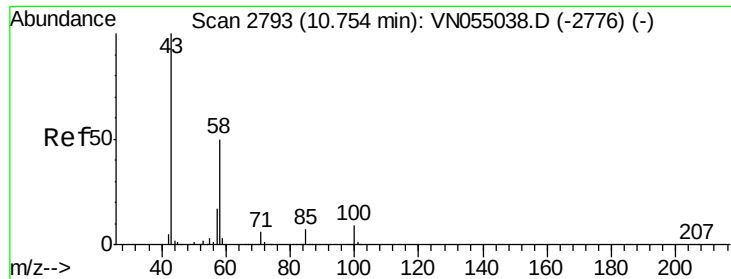
MMDadoda
 4/22/2019 10:07:34 AM



#58
 2-Chloroethyl Vinyl ether
 Concen: 93.318 ug/l
 RT: 9.70 min Scan# 2464
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Tgt Ion: 63 Resp: 175365
 Ion Ratio Lower Upper
 63 100
 106 24.3 20.0 30.0





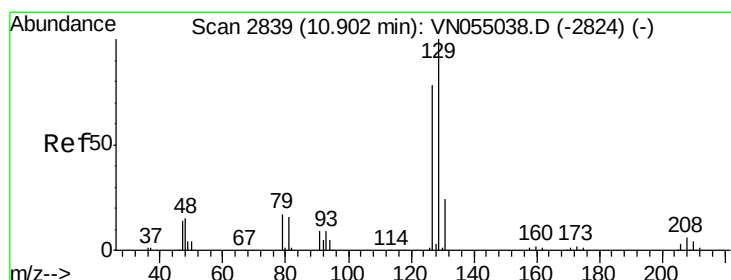
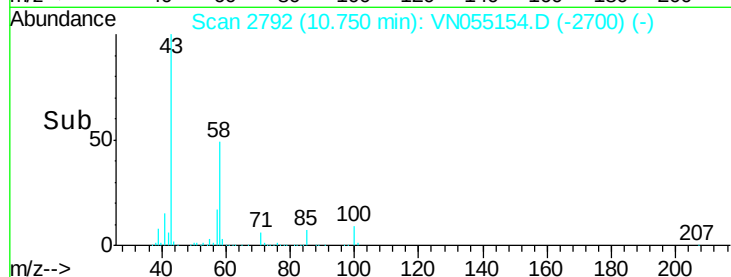
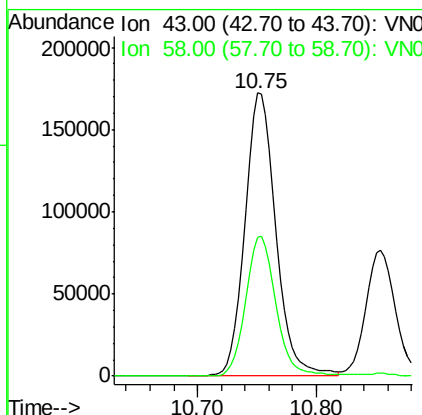
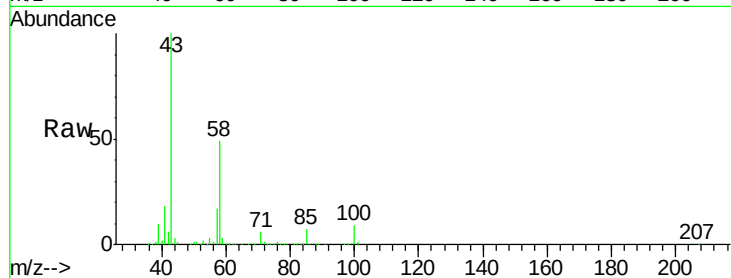
#59
2-Hexanone
Concen: 116.980 ug/l
RT: 10.75 min Scan# 2792
Delta R.T. -0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Instrument :
MSVOA_N
ClientSampleId :
VN0419WBSD02

Tot Ion: 43 Resp: 308700
Ion Ratio Lower Upper
43 100
58 48.5 25.1 75.2

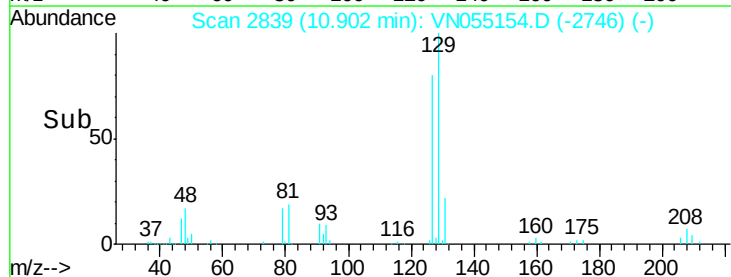
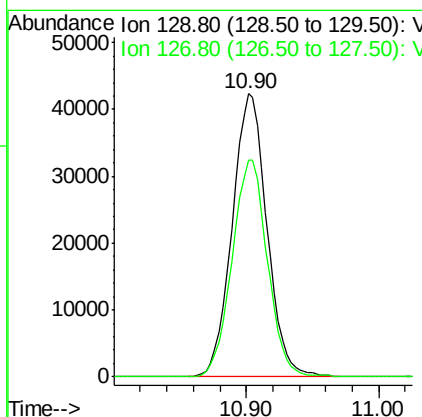
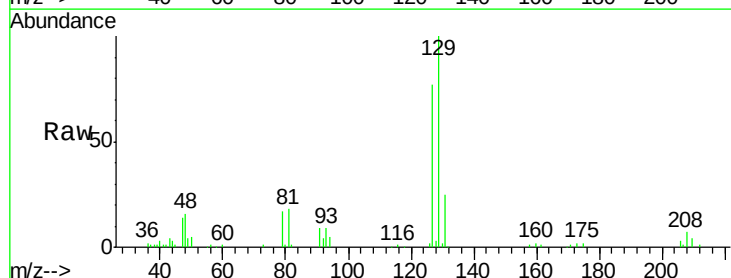
Manual Integrations
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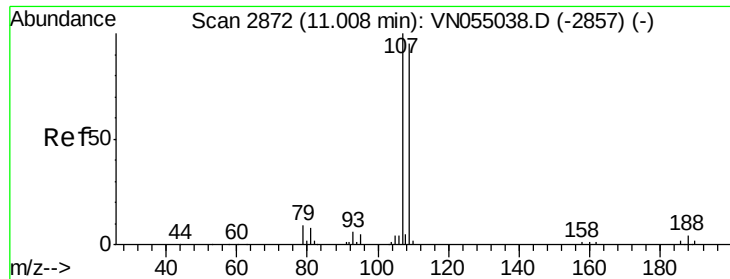
MMDadoda
4/22/2019 10:07:34 AM



#60
Dibromochloromethane
Concen: 20.438 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion: 129 Resp: 76947
Ion Ratio Lower Upper
129 100
127 77.8 38.2 114.6





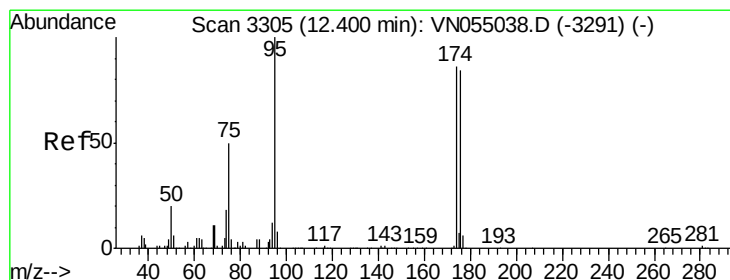
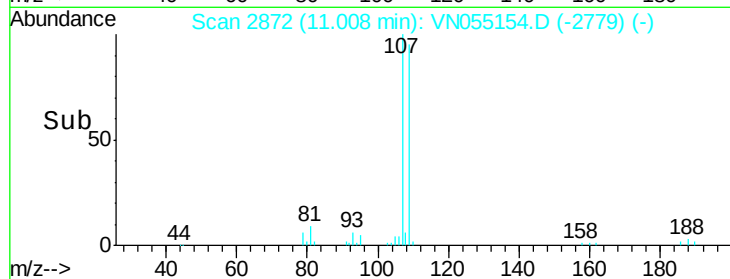
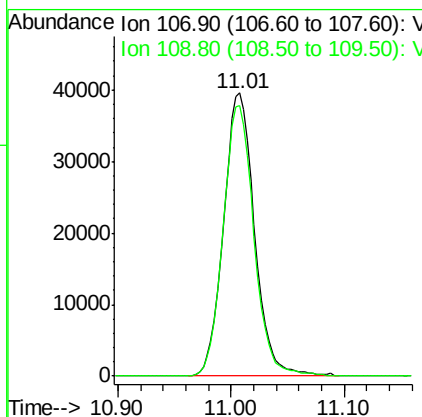
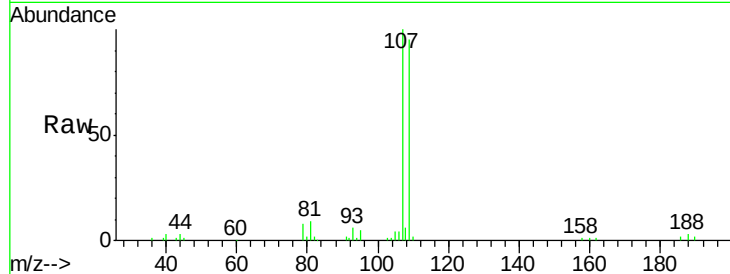
#61
 1,2-Dibromoethane
 Concen: 21.227 ug/l
 RT: 11.01 min Scan# 2872
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0419WBSD02

Tot Ion	Ratio	Lower	Upper
107	100		
109	95.0	76.5	114.7

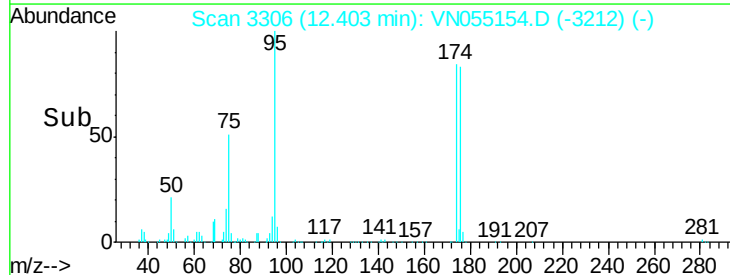
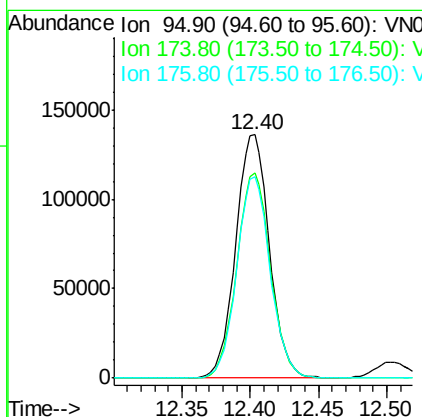
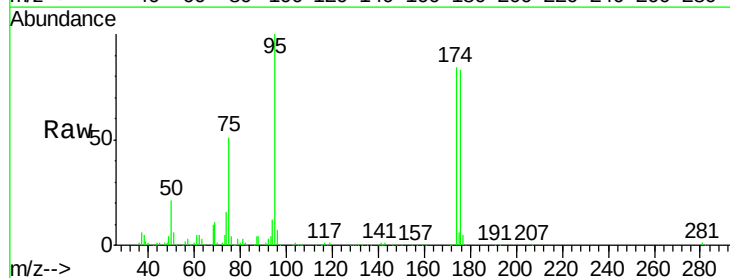
Manual Integrations
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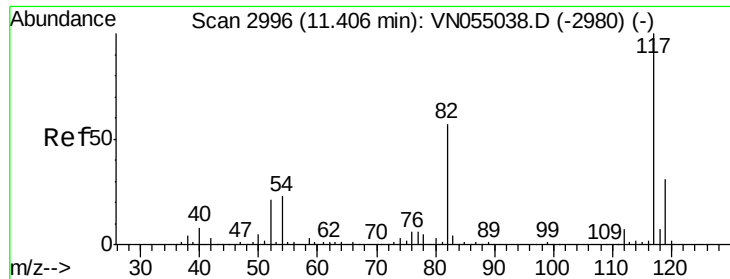
MMDadoda
 4/22/2019 10:07:34 AM



#62
 4-Bromofluorobenzene
 Concen: 48.834 ug/l
 RT: 12.40 min Scan# 3306
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Tgt Ion	Ratio	Lower	Upper
95	100		
174	84.0	0.0	174.4
176	82.0	0.0	166.8





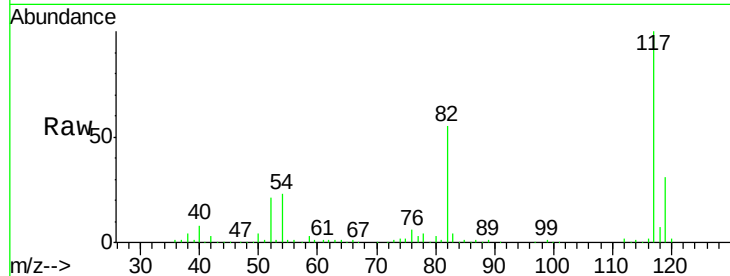
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Instrument :
MSVOA_N
ClientSampleId :
VN0419WBSD02

Tot Ion	Ratio	Lower	Upper
117	100		
82	55.5	44.6	66.8
119	31.1	25.5	38.3

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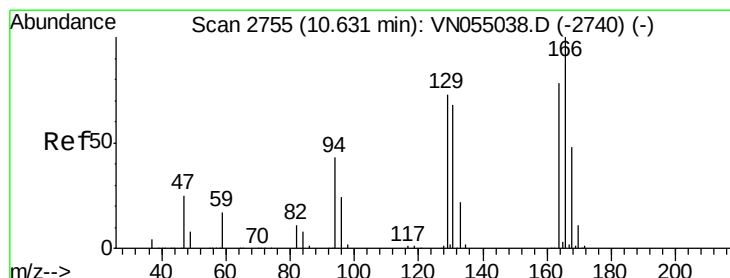
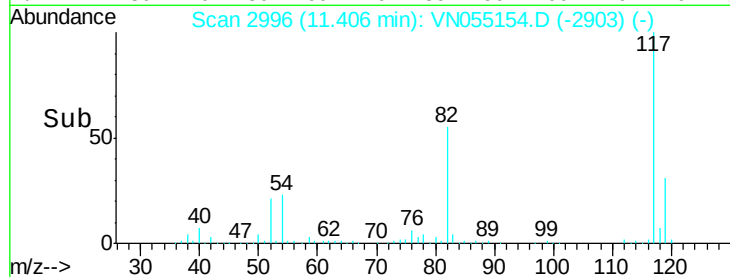
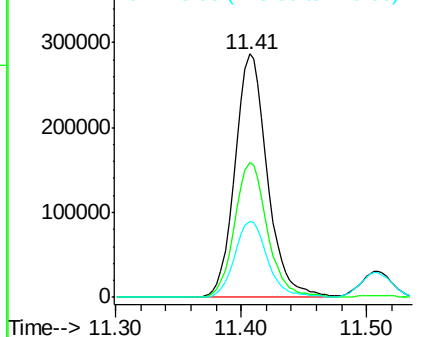


Abundance

Ion 116.90 (116.60 to 117.60): V

Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



#64
Tetrachloroethene
Concen: 19.379 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	129.8	100.0	150.0
129	98.3	72.0	108.0
131	94.9	69.7	104.5

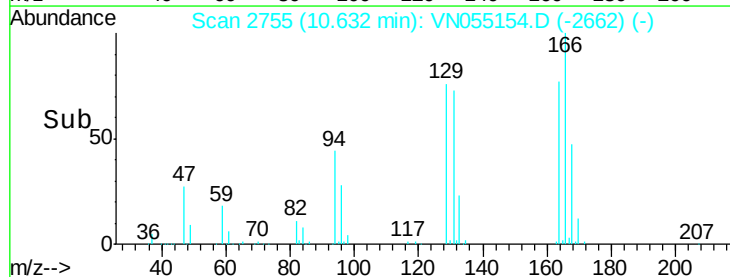
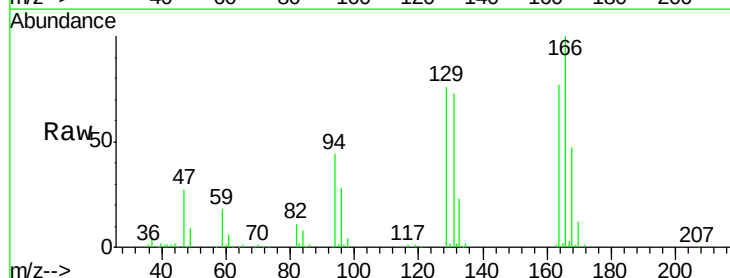
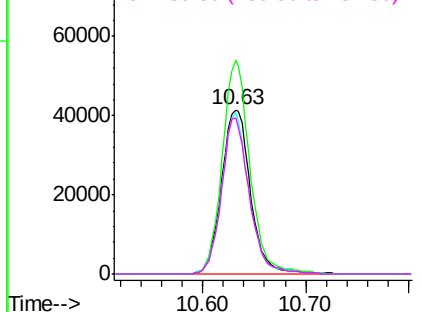
Abundance

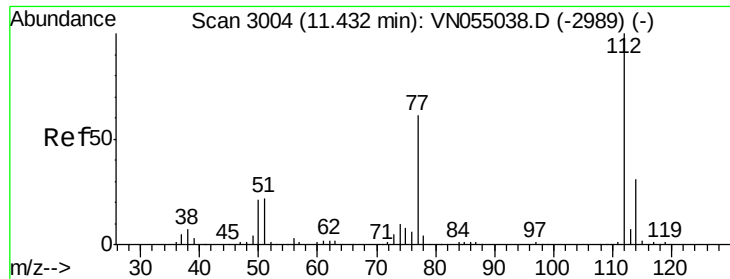
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V





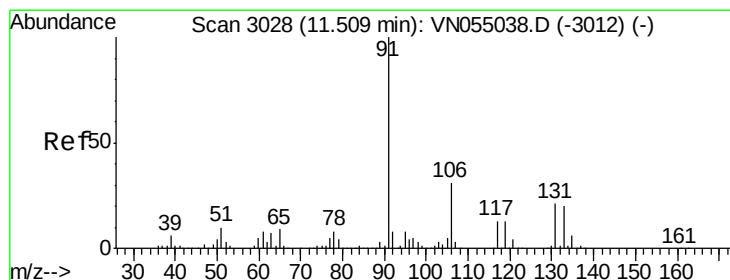
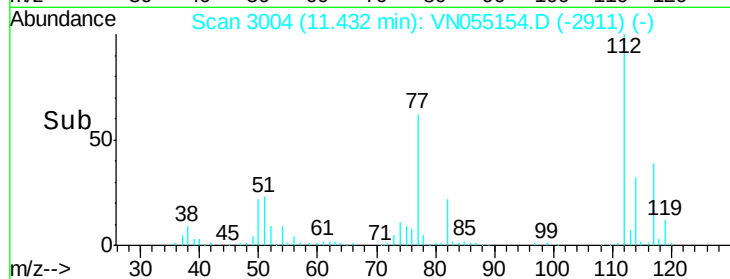
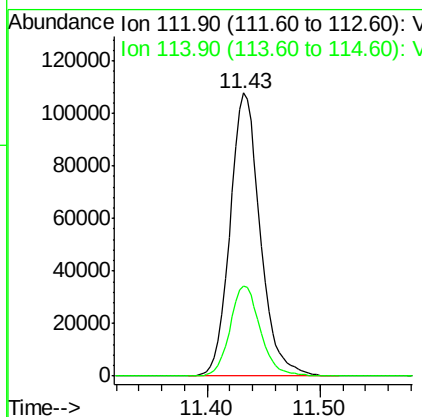
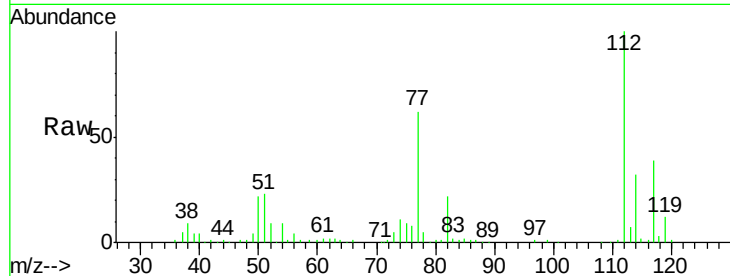
#65
Chlorobenzene
Concen: 19.321 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Instrument :
MSVOA_N
ClientSampleId :
VN0419WBSD02

Tot Ion	Ratio	Lower	Upper
112	100		
114	32.0	25.3	37.9

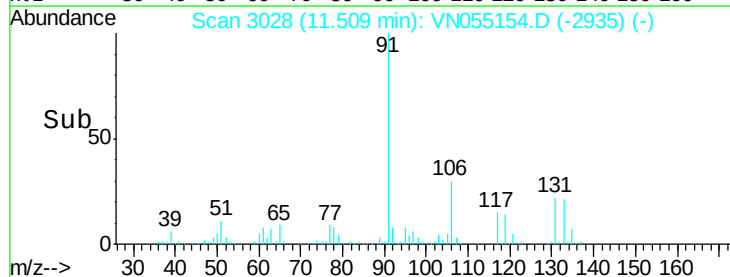
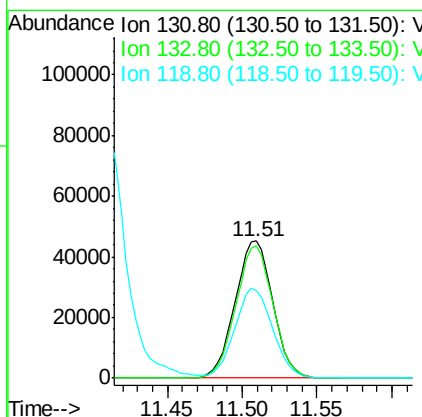
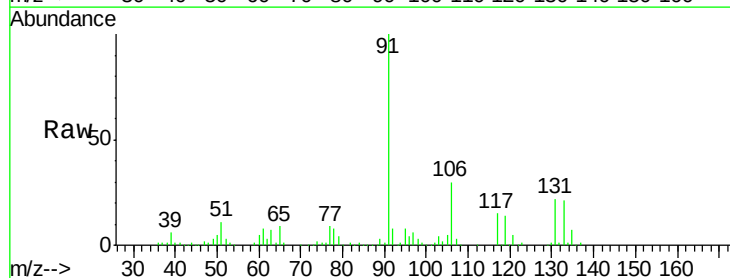
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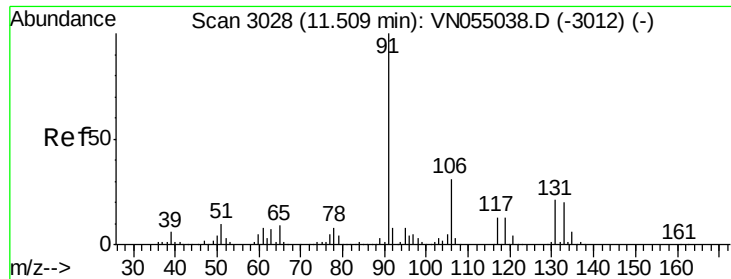
MMDadoda
4/22/2019 10:07:34 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 20.832 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.9	47.8	143.3
119	65.8	33.6	100.6





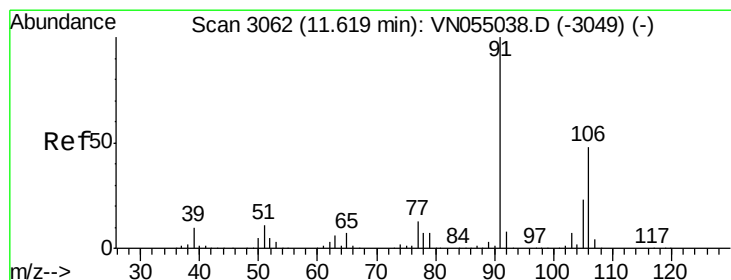
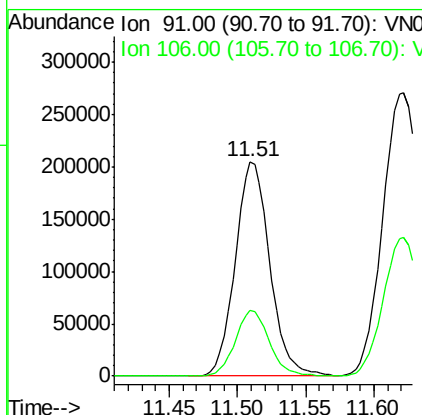
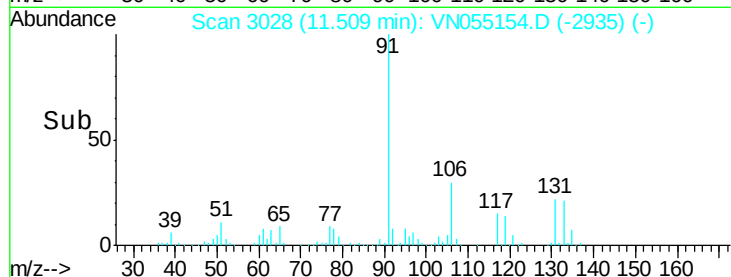
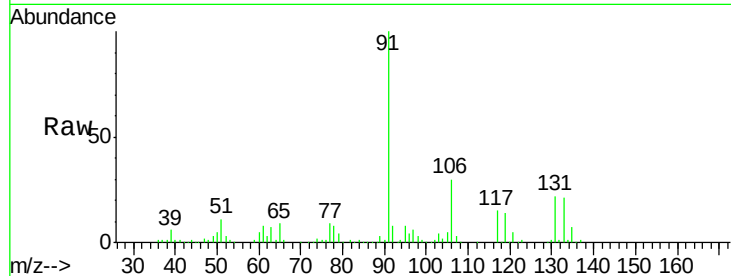
#67
Ethyl Benzene
Concen: 19.488 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Instrument :
MSVOA_N
ClientSampleId :
VN0419WBSD02

Tot Ion: 91 Resp: 360169
Ion Ratio Lower Upper
91 100
106 30.5 24.3 36.5

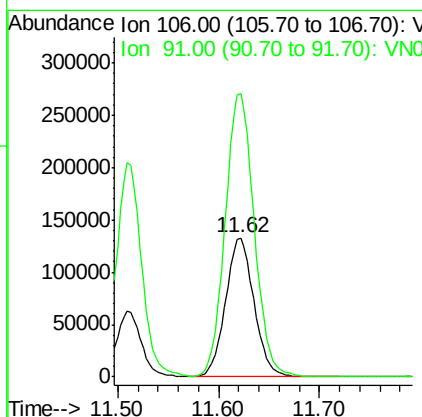
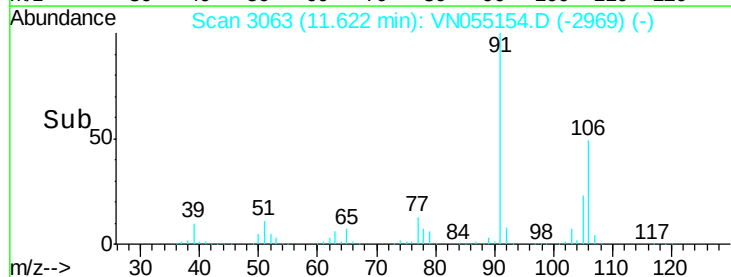
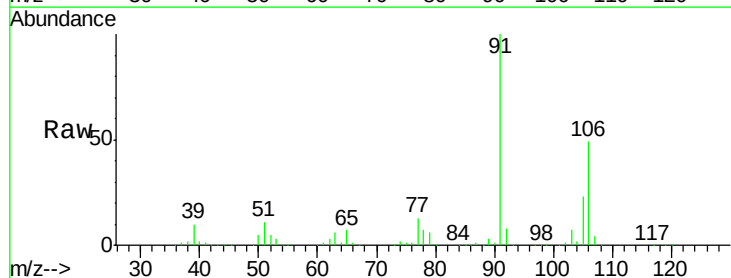
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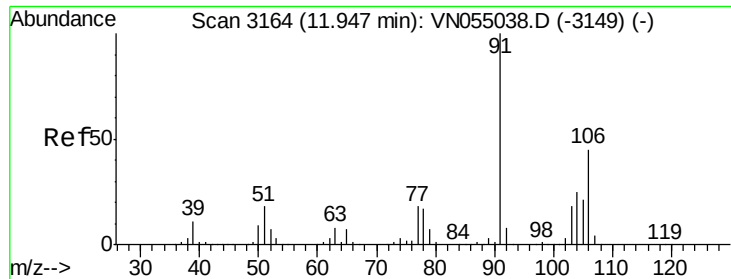
MMDadoda
4/22/2019 10:07:34 AM



#68
m/p-Xylenes
Concen: 38.995 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion: 106 Resp: 260965
Ion Ratio Lower Upper
106 100
91 207.8 165.9 248.9





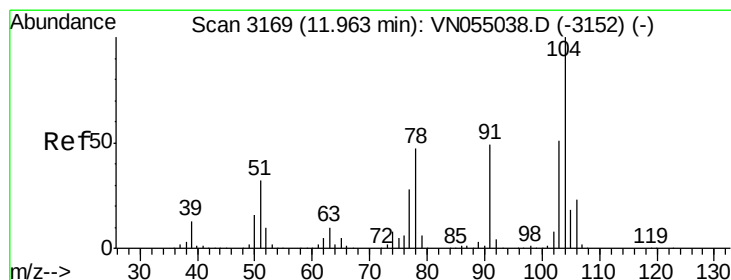
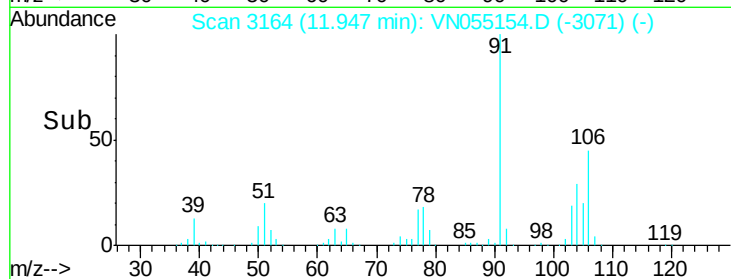
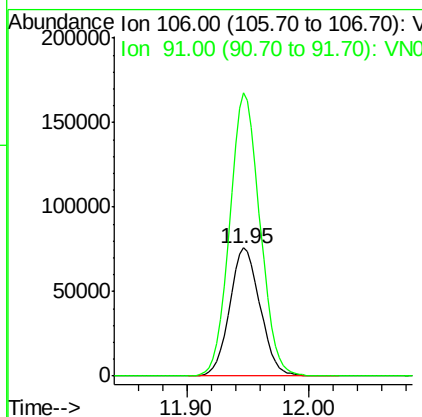
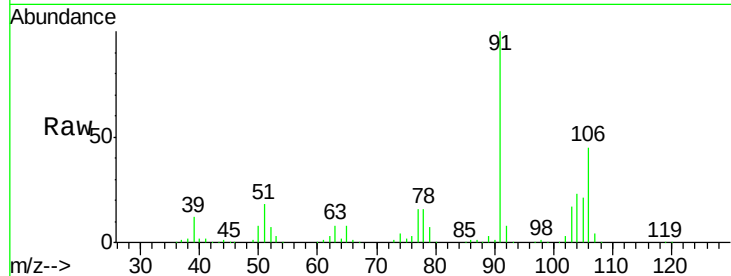
#69
o-Xylene
Concen: 20.344 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Instrument :
MSVOA_N
ClientSampled :
VN0419WBSD02

Tot Ion	Ion	Ratio	Lower	Upper
106	100			
91	219.4	109.9	329.8	

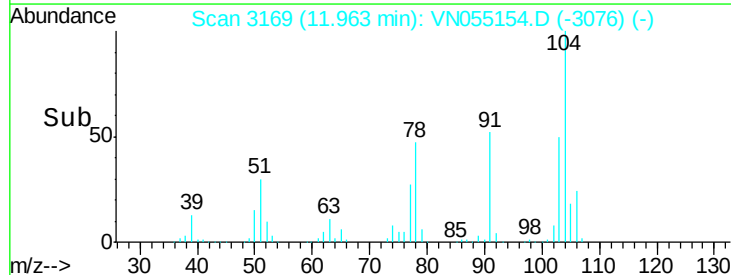
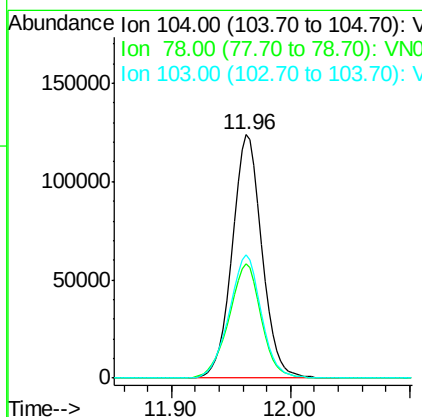
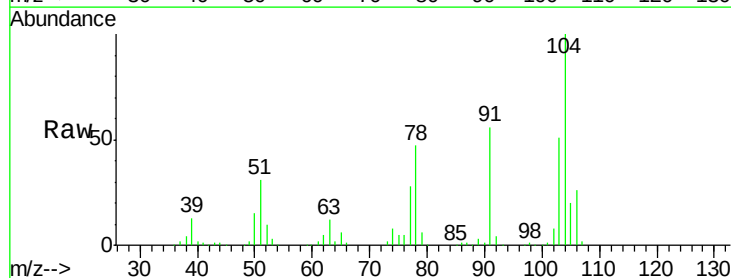
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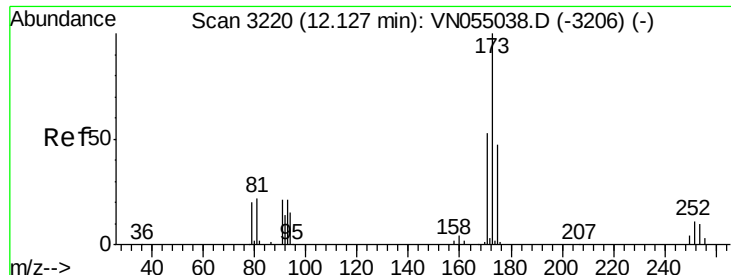
MMDadoda
4/22/2019 10:07:34 AM



#70
Styrene
Concen: 20.444 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion	Ion	Ratio	Lower	Upper
104	100			
78	51.2	40.3	60.5	
103	54.5	44.3	66.5	





#71

Bromoform

Concen: 21.890 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

ClientSampleId :

VN0419WBSD02

Tot Ion:173 Resp: 47757

Ion Ratio Lower Upper

173 100

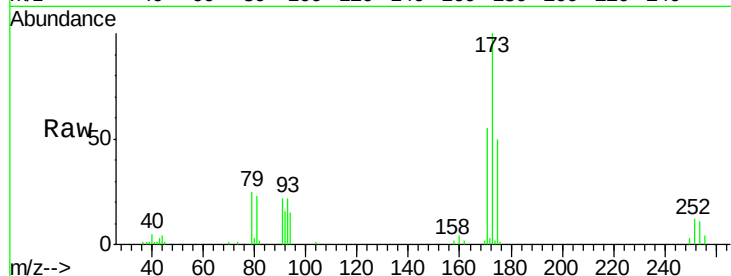
175 49.2 24.3 73.0

254 0.0 0.1 0.1#

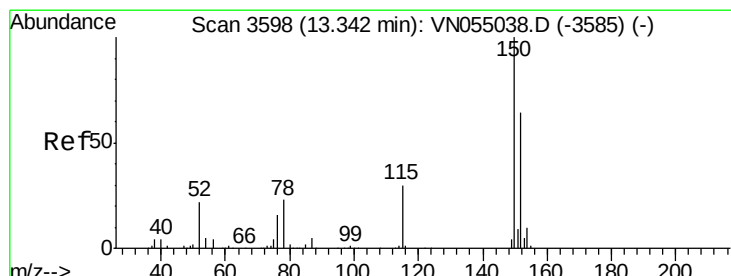
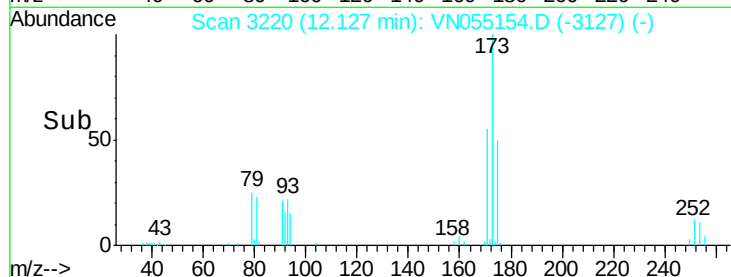
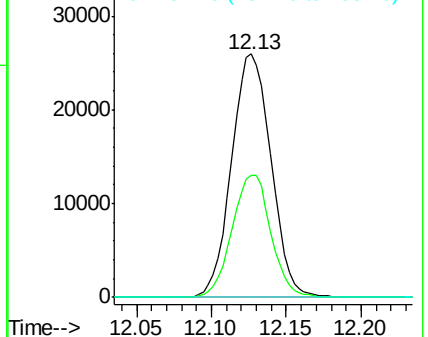
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Abundance Ion 172.70 (172.40 to 173.40): V
Ion 174.70 (174.40 to 175.40): V
Ion 254.40 (254.10 to 255.10): V



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

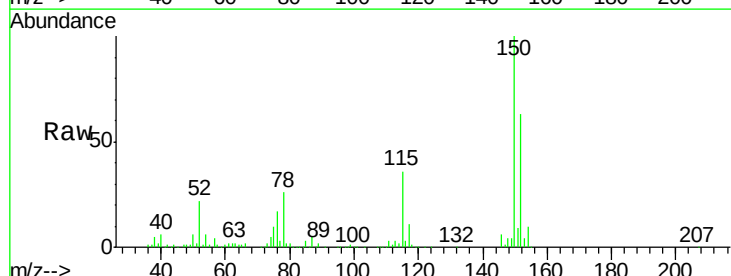
Tgt Ion:152 Resp: 199021

Ion Ratio Lower Upper

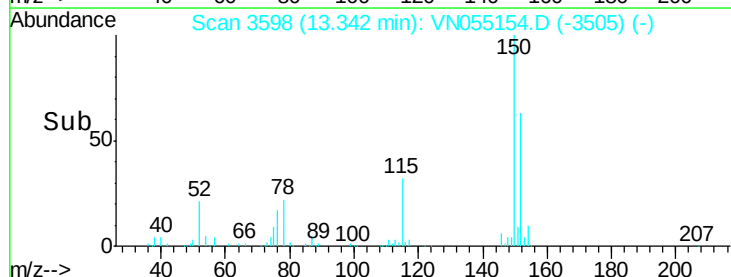
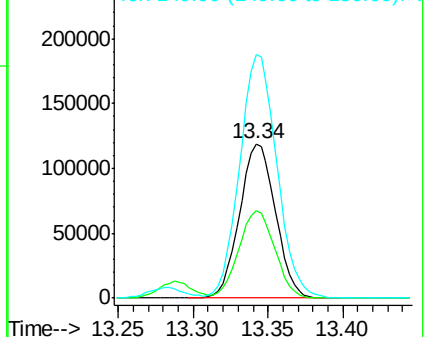
152 100

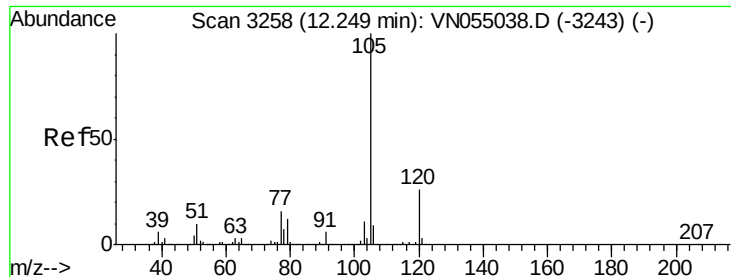
115 56.9 28.5 85.6

150 163.4 0.0 347.2



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: 19.701 ug/l

RT: 12.25 min Scan# 3258

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

ClientSampleId :

VN0419WBSD02

Tot Ion: 105 Resp: 347925

Ion Ratio Lower Upper

105 100

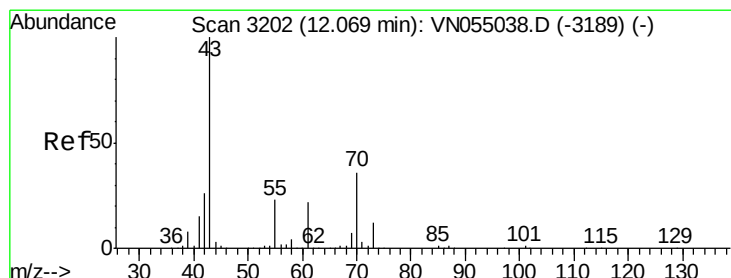
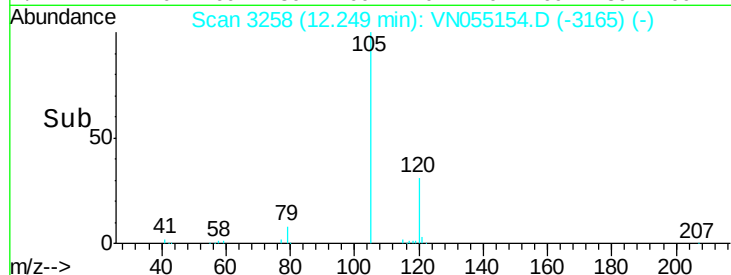
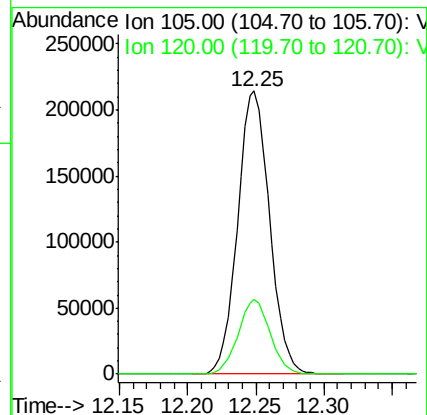
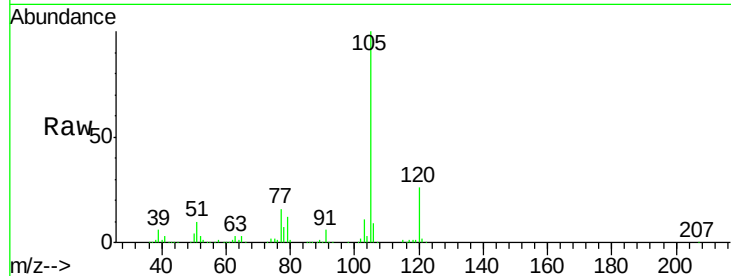
120 26.3 13.3 39.9

Manual Integrations

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#74

N-ethyl acetate

Concen: 23.401 ug/l

RT: 12.07 min Scan# 3202

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Tgt Ion: 43 Resp: 116338

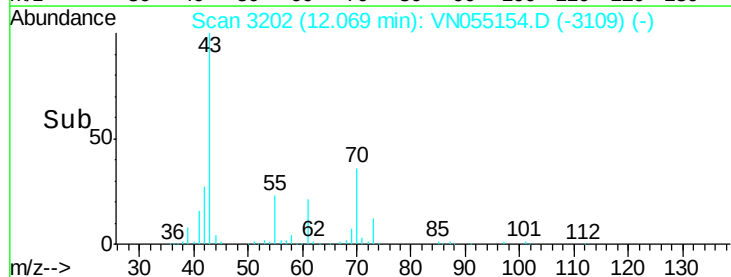
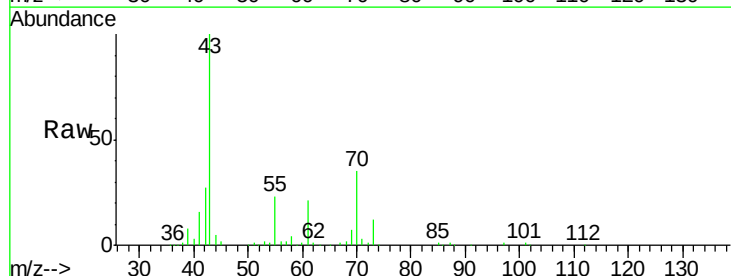
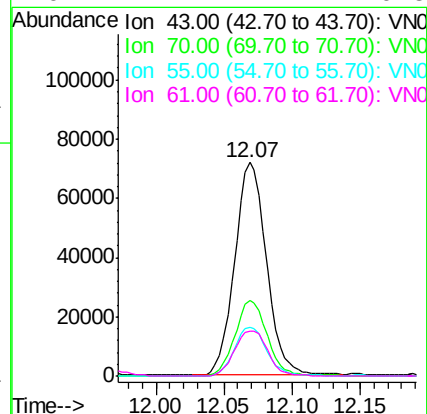
Ion Ratio Lower Upper

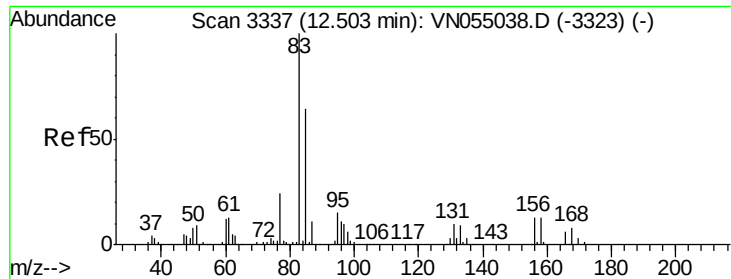
43 100

70 35.9 29.4 44.0

55 23.4 19.0 28.4

61 22.2 17.7 26.5





#75

1,1,2,2-Tetrachloroethane

Concen: 21.771 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

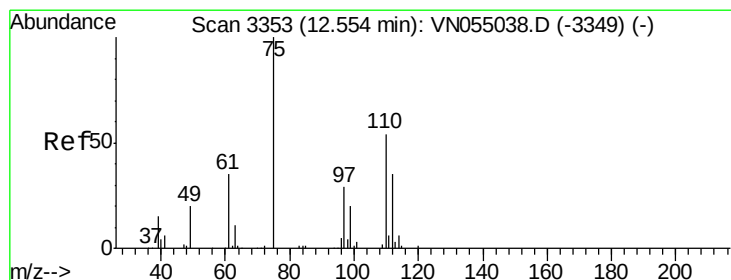
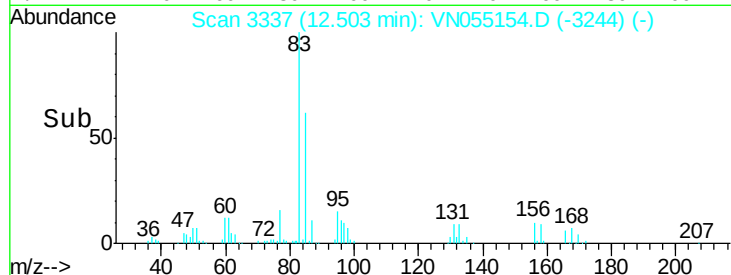
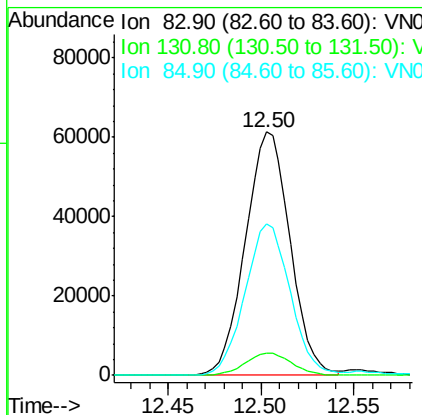
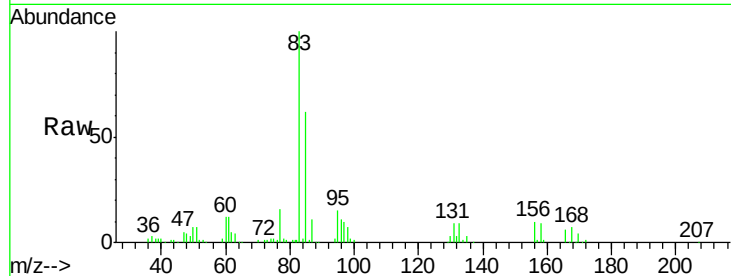
ClientSampleId :

VN0419WBSD02

Tot Ion:	83	Resp:	102884
Ion Ratio	Lower	Upper	
83	100		
131	9.6	5.0	15.0
85	62.8	32.3	96.9

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 21.193 ug/l m

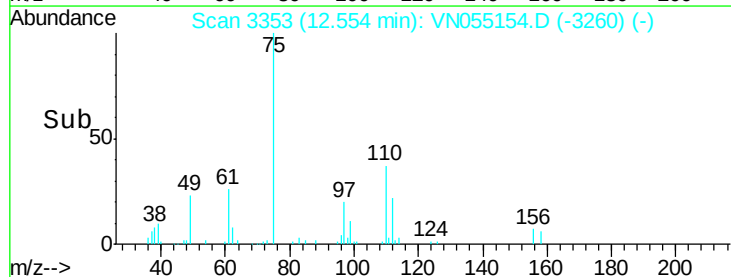
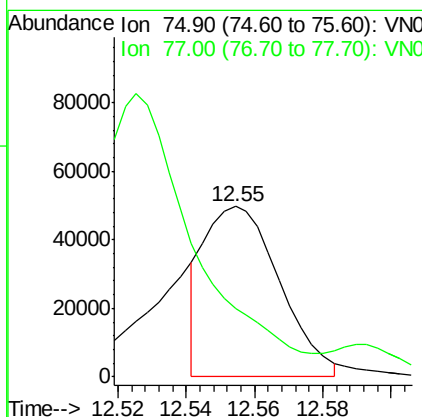
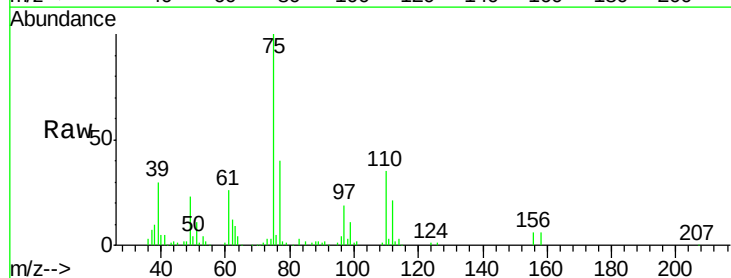
RT: 12.55 min Scan# 3353

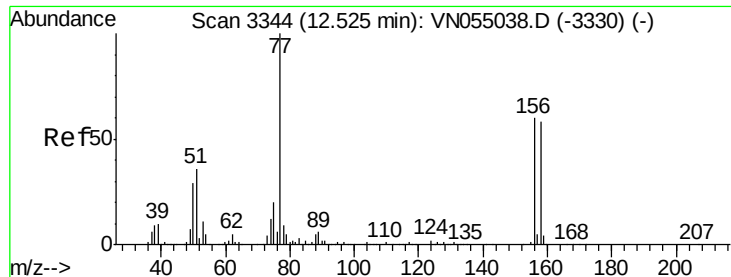
Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Tgt Ion:	75	Resp:	75849
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 19.256 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

ClientSampleId :

VN0419WBSD02

Tot Ion:156 Resp: 84783

Ion Ratio Lower Upper

156 100

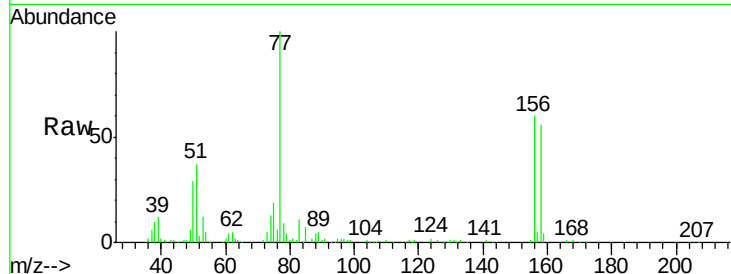
77 199.6 97.2 291.5

158 94.8 48.6 145.9

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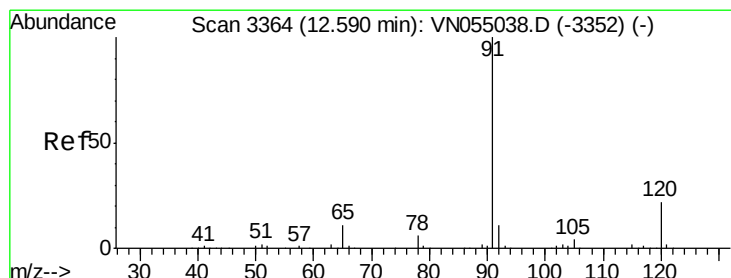
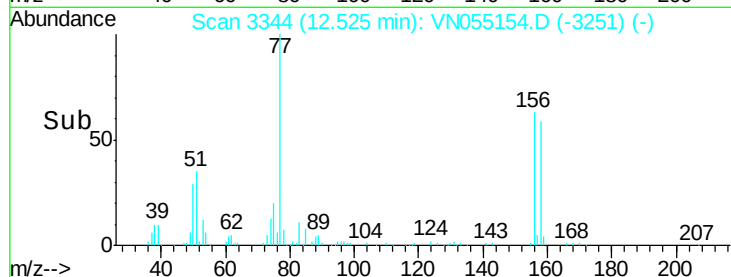
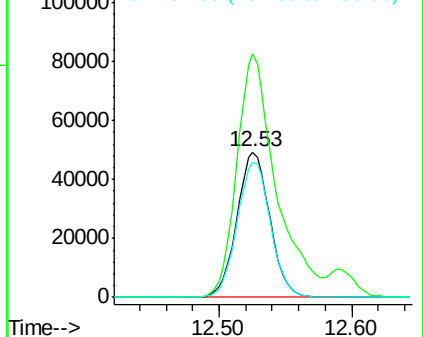
4/22/2019 10:07:34 AM



Abundance Ion 155.80 (155.50 to 156.50): V

Ion 77.00 (76.70 to 77.70): VN0

Ion 157.80 (157.50 to 158.50): V



#78

n-propylbenzene

Concen: 19.100 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. 0.00 min

Lab File: VN055154.D

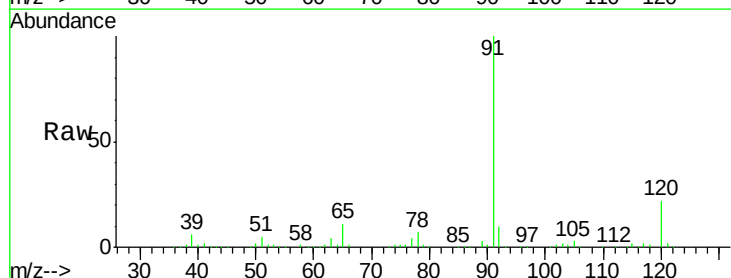
Acq: 19 Apr 2019 22:03

Tgt Ion: 91 Resp: 364443

Ion Ratio Lower Upper

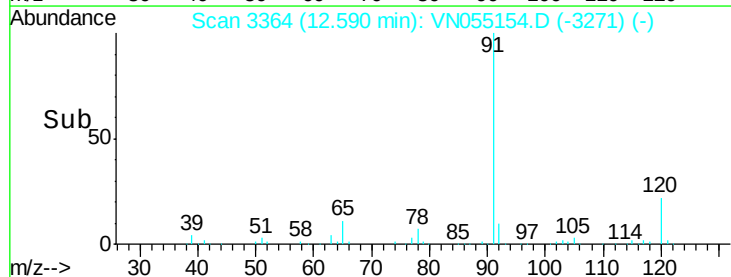
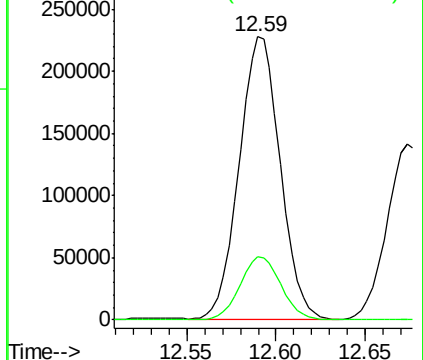
91 100

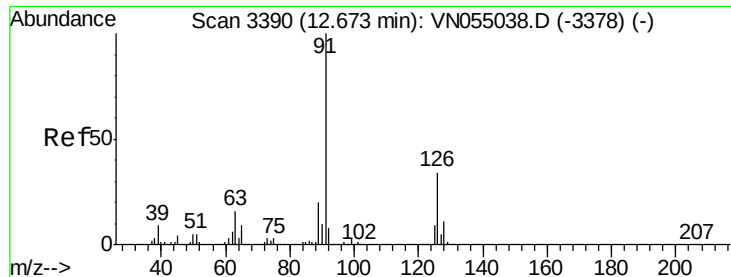
120 22.3 11.2 33.5



Abundance Ion 91.00 (90.70 to 91.70): VN0

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 19.723 ug/l

RT: 12.67 min Scan# 3390

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

ClientSampled :

VN0419WBSD02

Tot Ion: 91 Resp: 234736

Ion Ratio Lower Upper

91 100

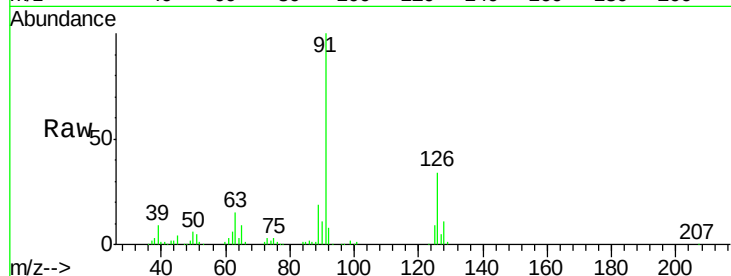
126 33.8 17.1 51.2

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Abundance Ion 91.00 (90.70 to 91.70): VN055038.D (-3378) (-)

Ion 125.90 (125.60 to 126.60): VN055038.D (-3378) (-)

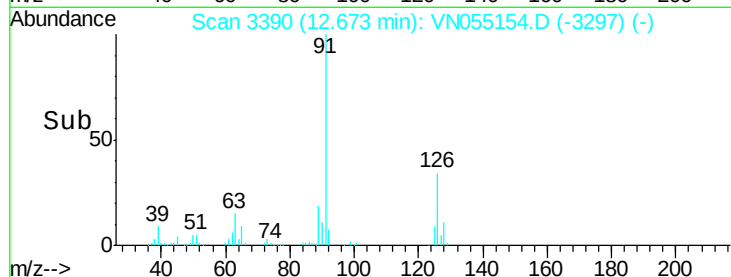
150000

100000

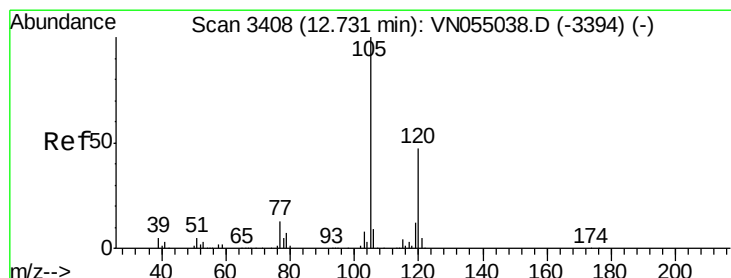
50000

0

12.60 12.65 12.70



Time-->



#80

1,3,5-Trimethylbenzene

Concen: 20.018 ug/l

RT: 12.73 min Scan# 3408

Delta R.T. 0.00 min

Lab File: VN055154.D

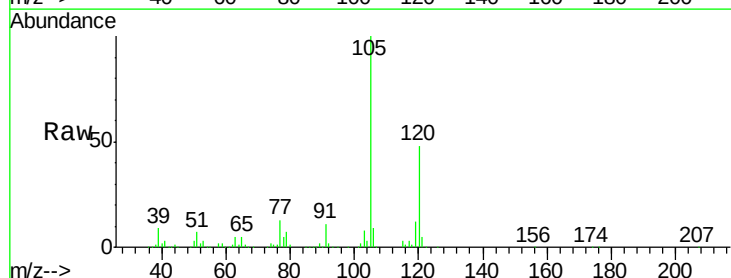
Acq: 19 Apr 2019 22:03

Tgt Ion: 105 Resp: 285298

Ion Ratio Lower Upper

105 100

120 47.2 24.3 72.8



Abundance Ion 105.00 (104.70 to 105.70): VN055038.D (-3394) (-)

Ion 120.00 (119.70 to 120.70): VN055038.D (-3394) (-)

200000

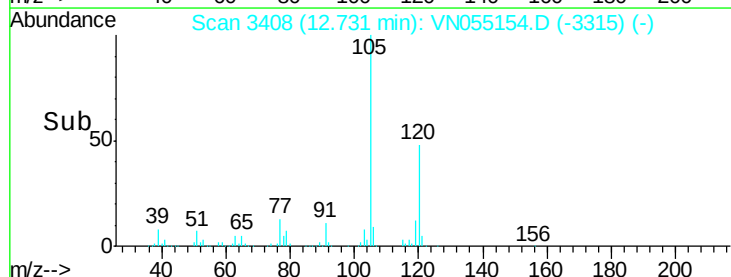
150000

100000

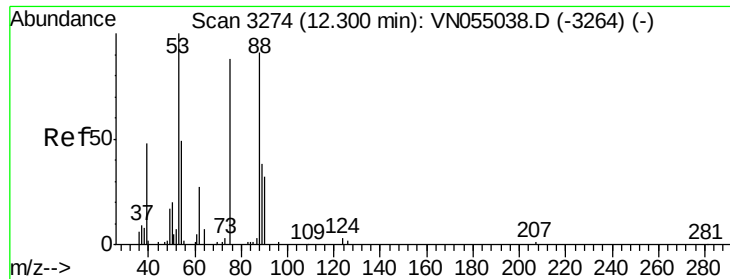
50000

0

12.65 12.70 12.75 12.80



Time-->



#81

trans-1,4-Dichloro-2-butene

Concen: 21.783 ug/l

RT: 12.30 min Scan# 3274

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

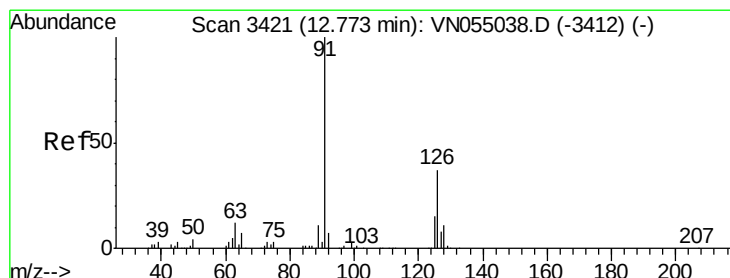
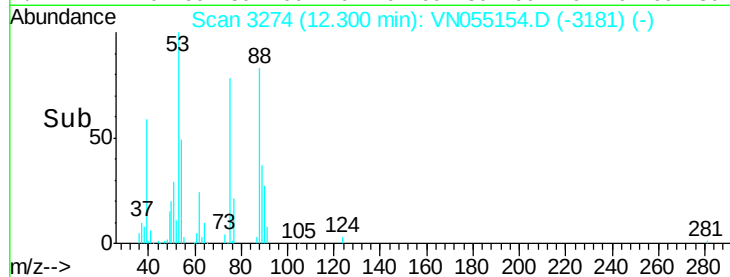
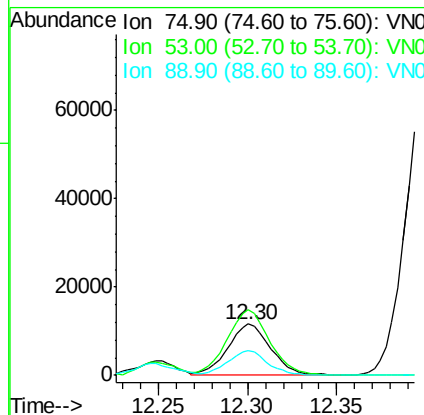
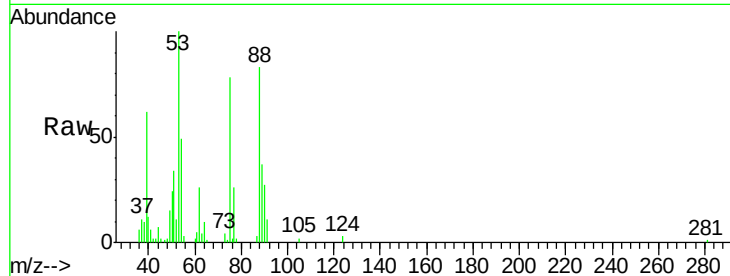
ClientSampled :

VN0419WBSD02

Tot Ion:	75	Resp:	19495
Ion	Ratio	Lower	Upper
75	100		
53	126.6	96.3	144.5
89	44.0	38.6	57.8

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#82

4-Chlorotoluene

Concen: 19.711 ug/l

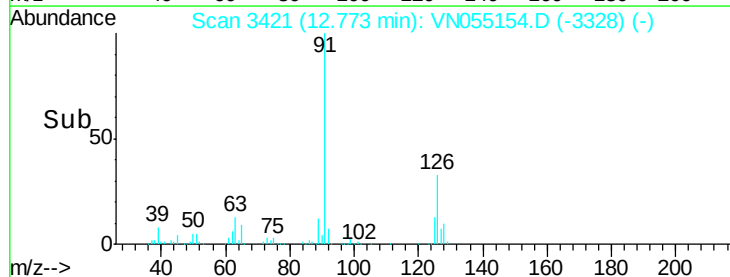
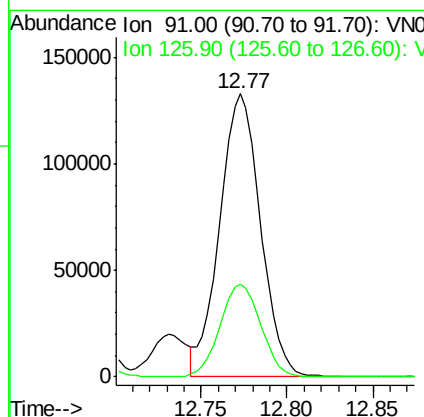
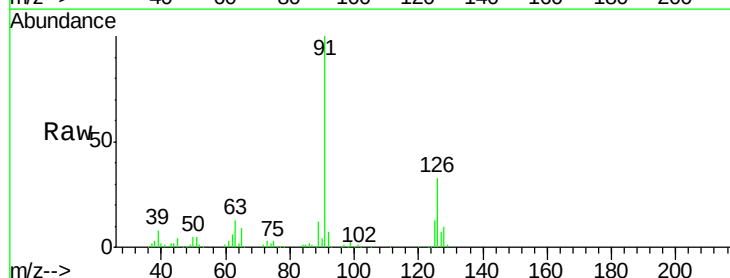
RT: 12.77 min Scan# 3421

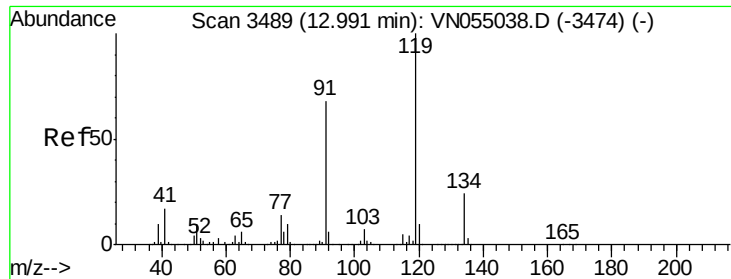
Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Tgt Ion:	91	Resp:	218863
Ion	Ratio	Lower	Upper
91	100		
126	32.9	16.4	49.2





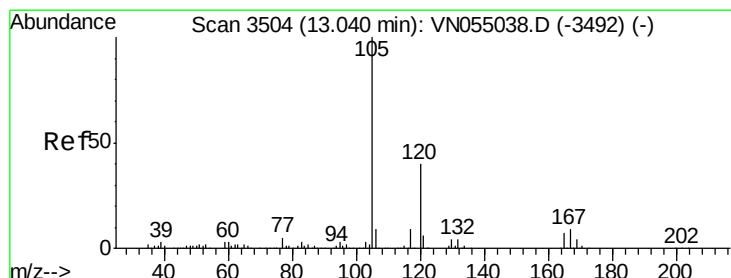
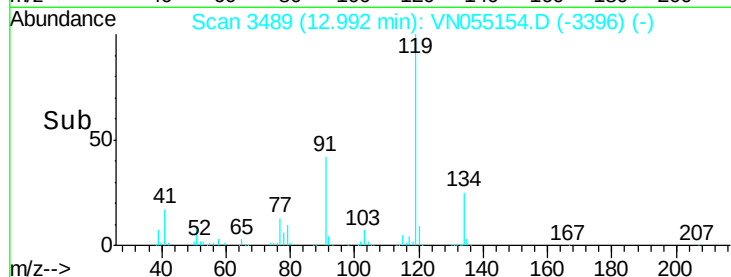
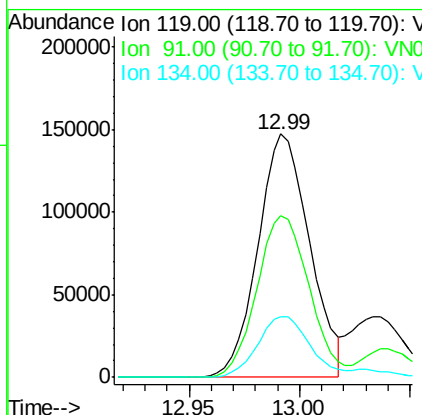
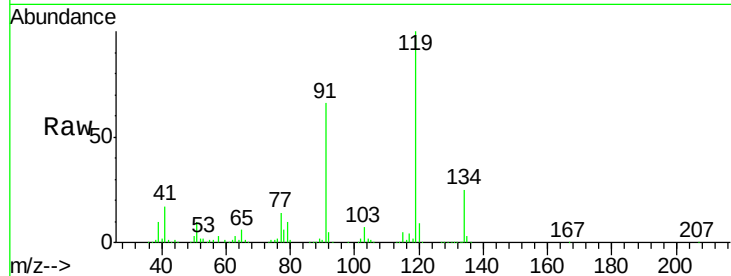
#83
 tert-Butylbenzene
 Concen: 19.931 ug/l
 RT: 12.99 min Scan# 3489
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Instrument :
 MSVOA_N
 ClientSampled :
 VN0419WBSD02

Tot Ion	Ratio	Resp	Lower	Upper
119	100	239887		
91	66.9		33.3	99.8
134	25.2		12.3	36.9

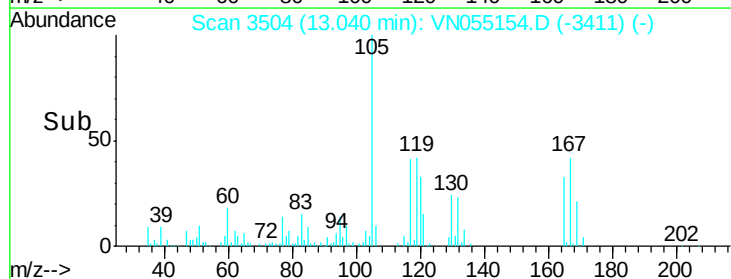
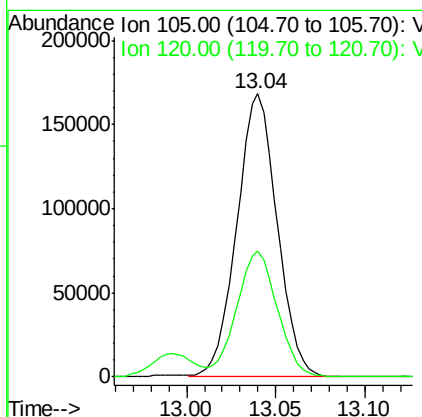
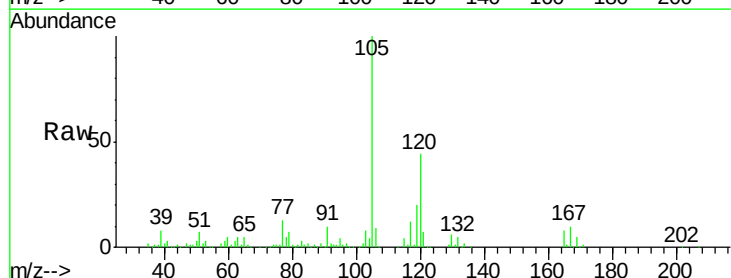
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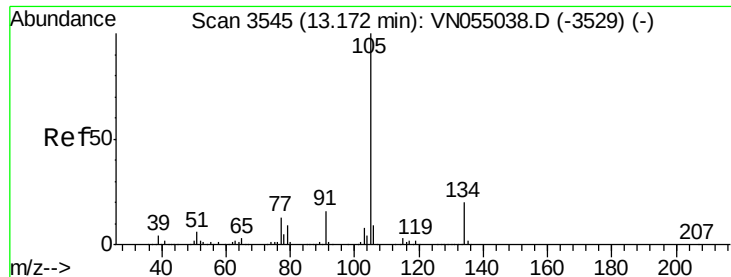
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#84
 1,2,4-Trimethylbenzene
 Concen: 19.568 ug/l
 RT: 13.04 min Scan# 3504
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	264298		
120	45.1		22.4	67.3





#85

sec-Butylbenzene

Concen: 19.575 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

ClientSampleId :

VN0419WBSD02

Tot Ion:105 Resp: 300220

Ion Ratio Lower Upper

105 100

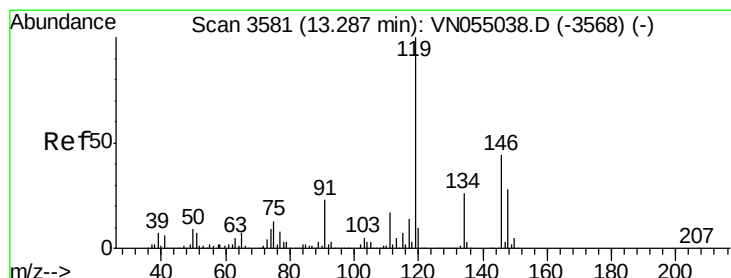
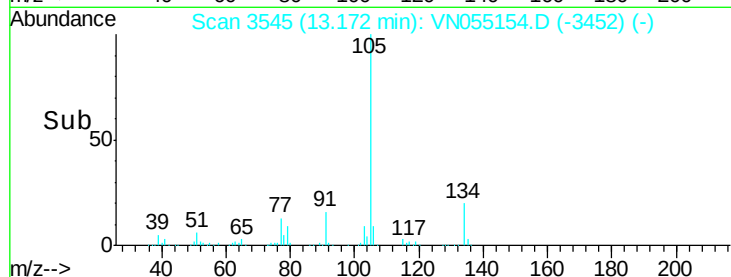
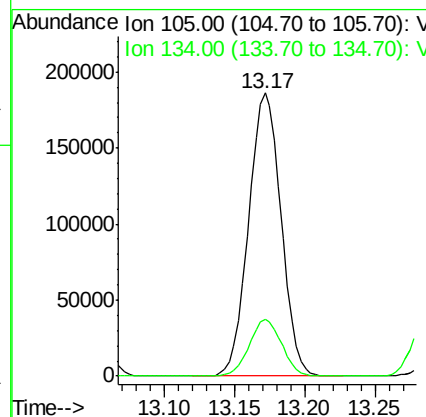
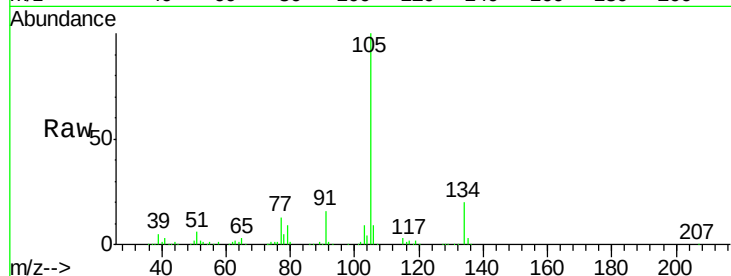
134 20.0 9.8 29.3

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#86

p-Isopropyltoluene

Concen: 19.541 ug/l

RT: 13.29 min Scan# 3581

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

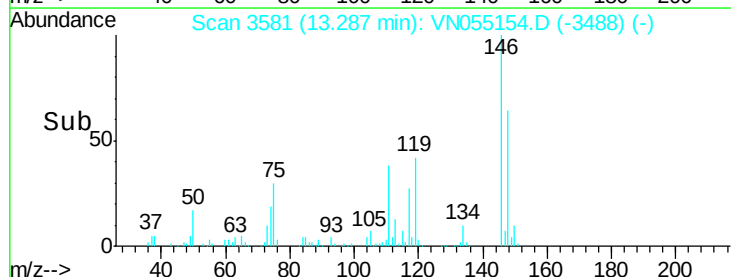
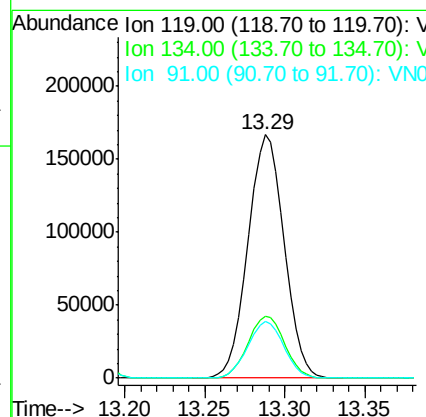
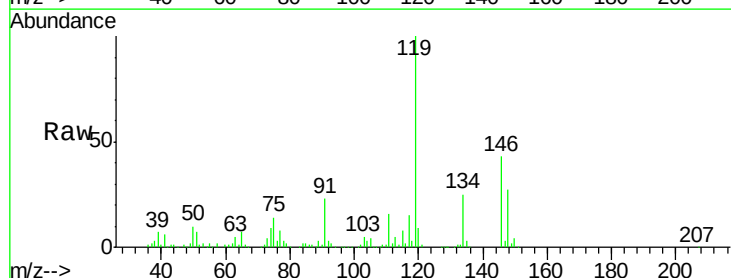
Tgt Ion:119 Resp: 257122

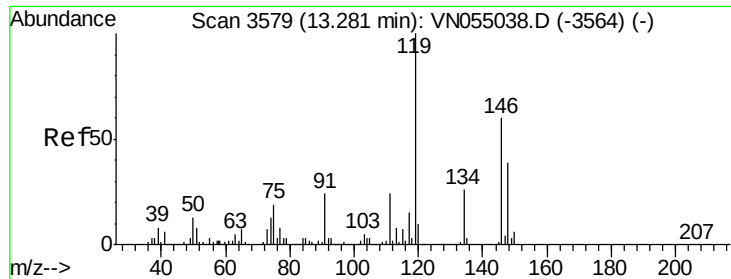
Ion Ratio Lower Upper

119 100

134 25.8 13.2 39.5

91 23.4 11.7 35.1





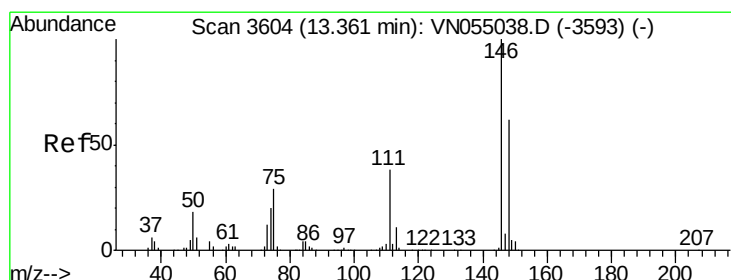
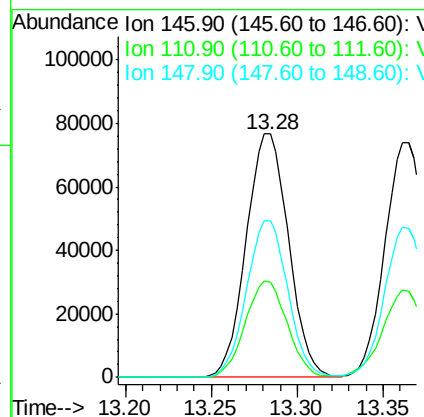
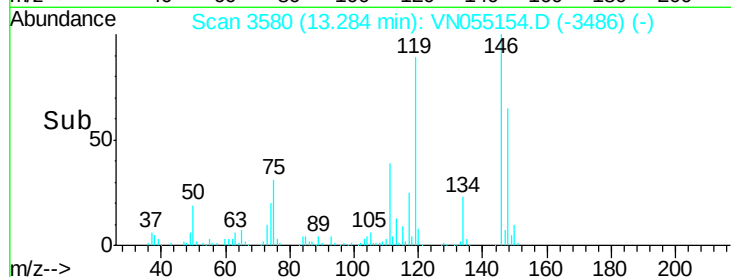
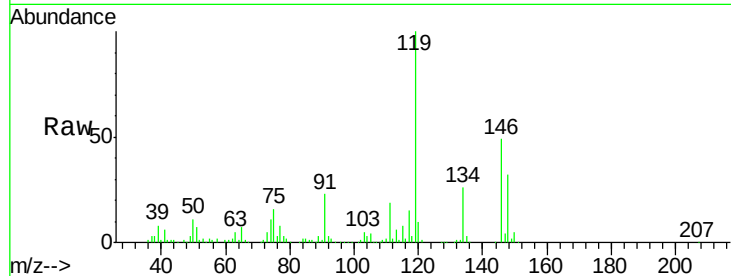
#87
 1,3-Dichlorobenzene
 Concen: 19.644 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0419WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.1	19.5	58.5
148	62.6	31.6	94.7

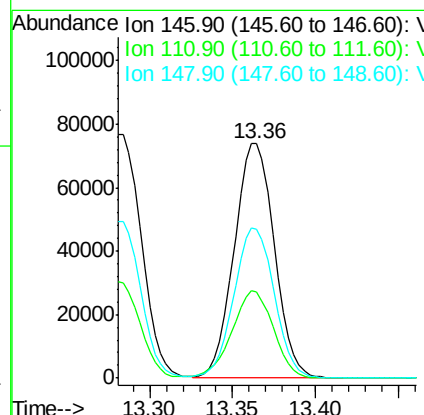
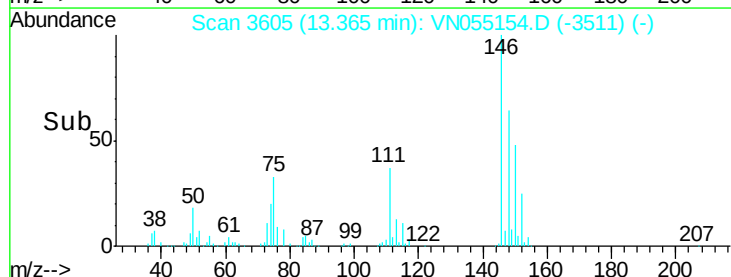
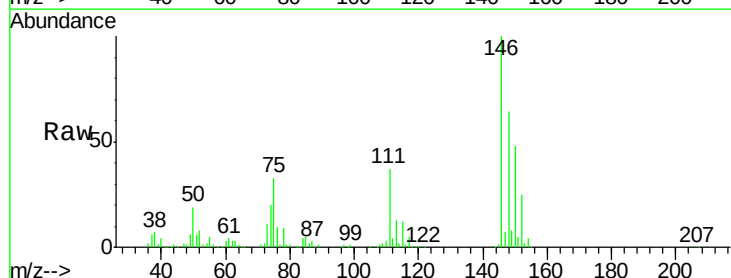
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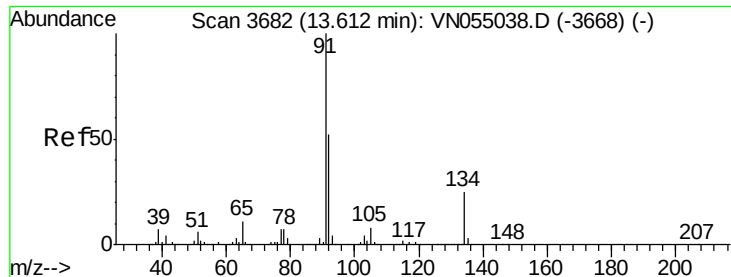
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#88
 1,4-Dichlorobenzene
 Concen: 19.547 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Tgt Ion	Ratio	Lower	Upper
146	100		
111	38.4	18.8	56.4
148	64.5	32.4	97.2





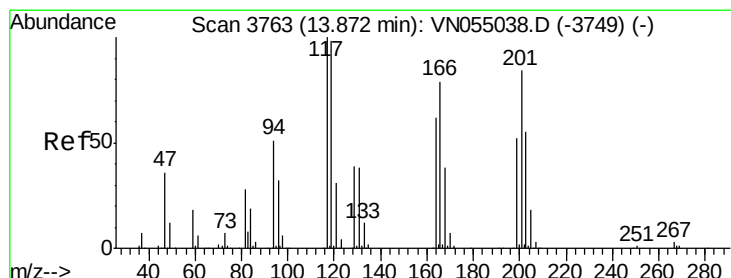
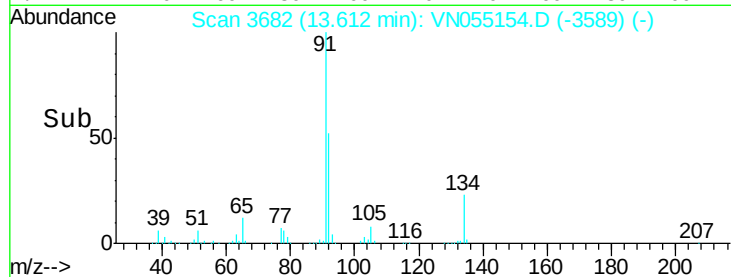
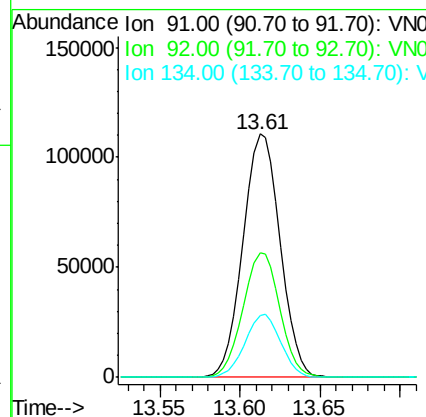
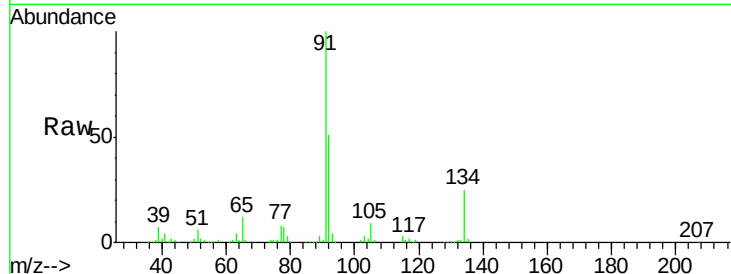
#89
n-Butylbenzene
Concen: 17.905 ug/l
RT: 13.61 min Scan# 3682
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Instrument :
MSVOA_N
ClientSampleId :
VN0419WBSD02

Tot Ion	Ratio	Lower	Upper
91	100		
92	50.6	25.9	77.7
134	24.8	12.8	38.3

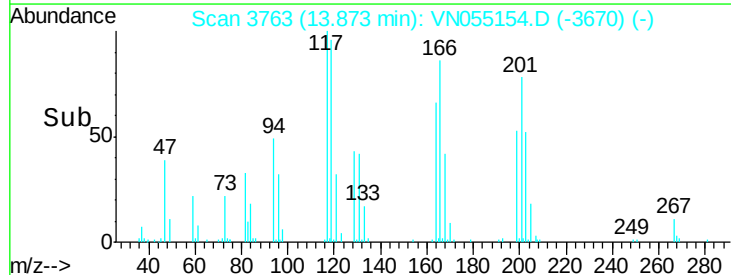
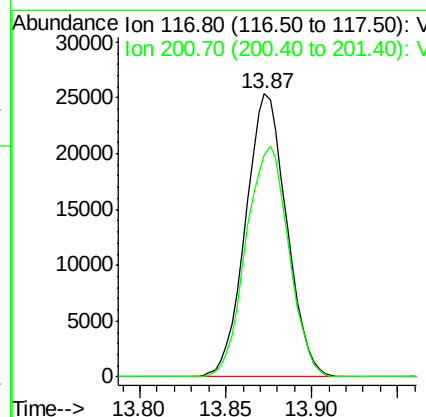
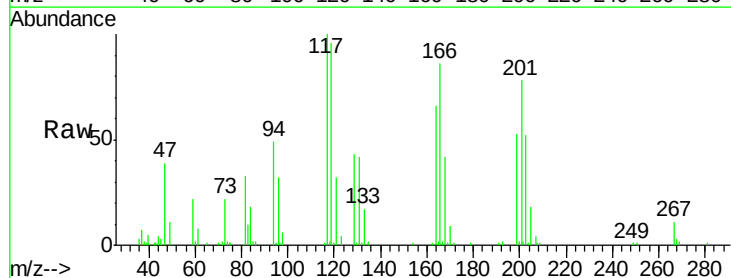
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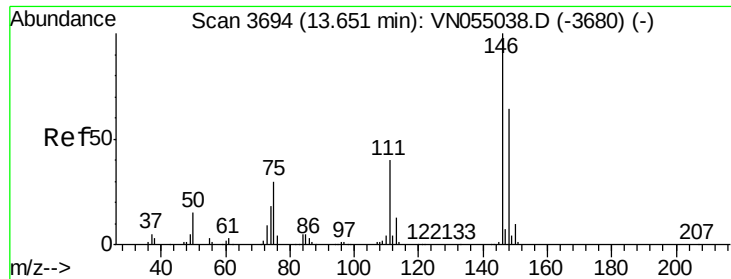
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#90
Hexachloroethane
Concen: 19.642 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. 0.00 min
Lab File: VN055154.D
Acq: 19 Apr 2019 22:03

Tgt Ion	Ratio	Lower	Upper
117	100		
201	84.8	43.4	130.2





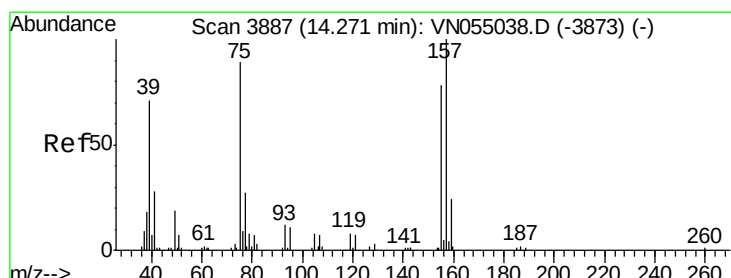
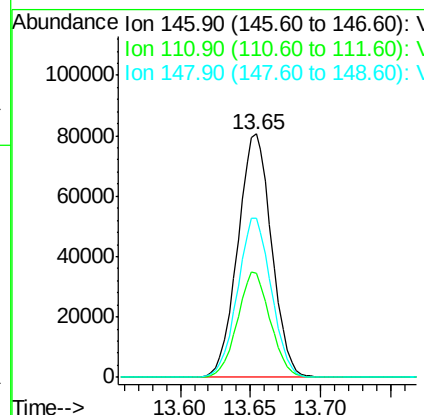
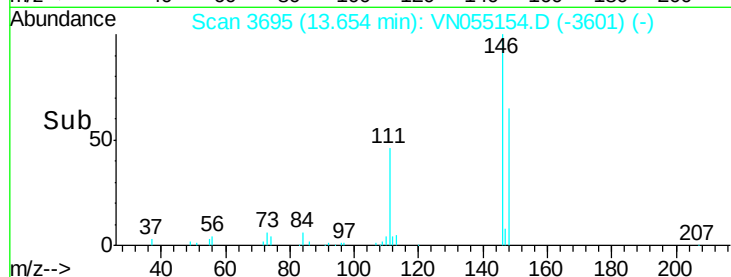
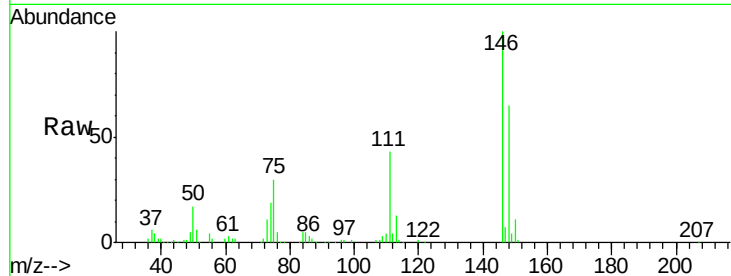
#91
 1,2-Dichlorobenzene
 Concen: 20.113 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0419WBSD02

Tot Ion	Ratio	Lower	Upper
146	100		
111	41.9	20.3	60.9
148	65.3	32.2	96.6

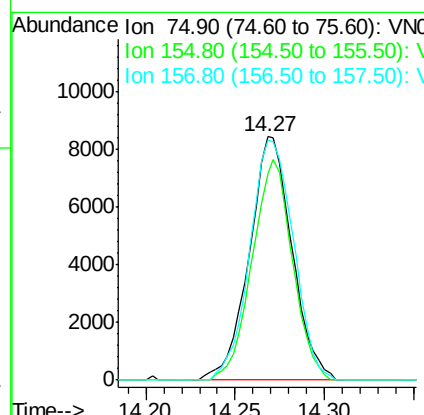
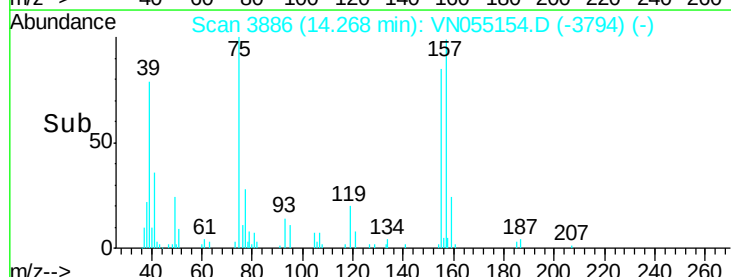
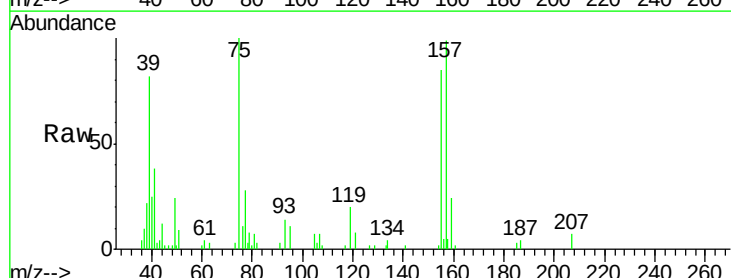
Manual Integrations
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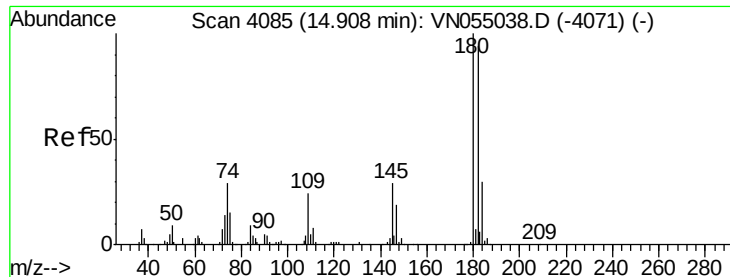
MMDadoda
 4/22/2019 10:07:34 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 24.297 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN055154.D
 Acq: 19 Apr 2019 22:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	85.4	42.0	126.0
157	100.7	52.1	156.4





#93

1,2,4-Trichlorobenzene

Concen: 16.320 ug/l

RT: 14.91 min Scan# 4085

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

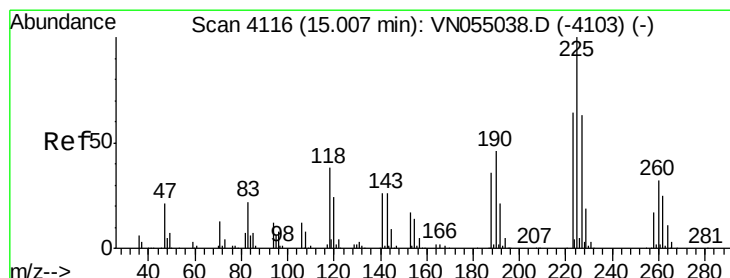
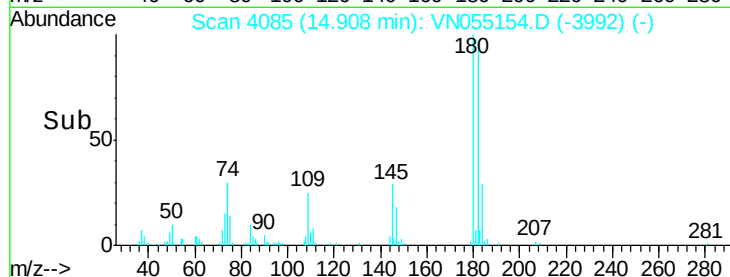
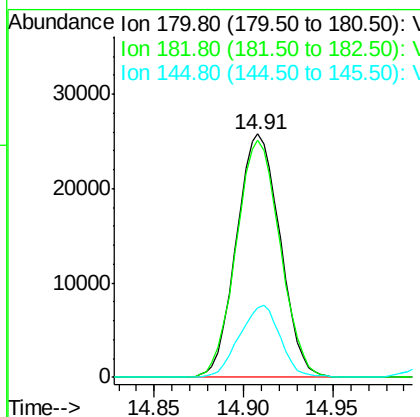
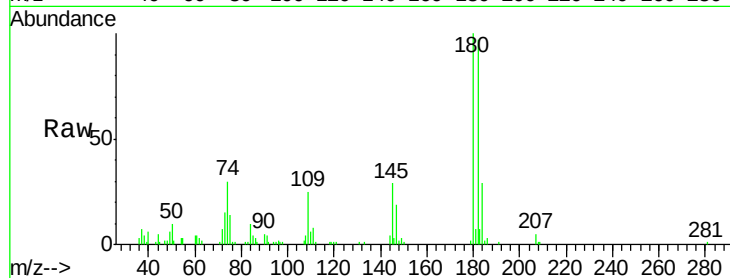
ClientSampleId :

VN0419WBSD02

Tot Ion:	180	Resp:	43997
Ion Ratio	Lower	Upper	
180	100		
182	98.1	47.5	142.6
145	27.9	14.2	42.8

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:34 AM



#94

Hexachlorobutadiene

Concen: 20.236 ug/l

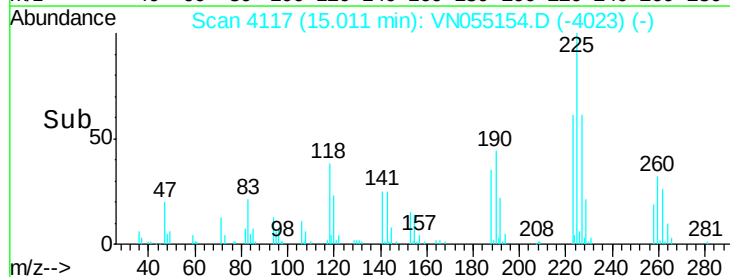
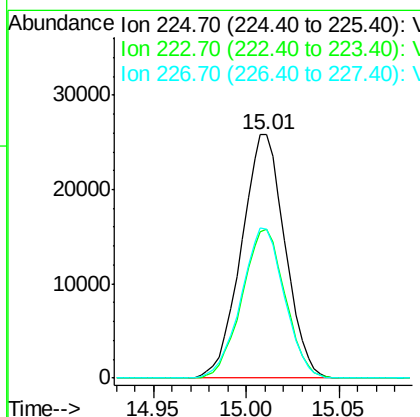
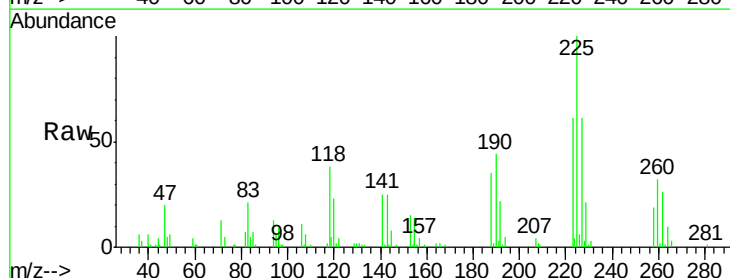
RT: 15.01 min Scan# 4117

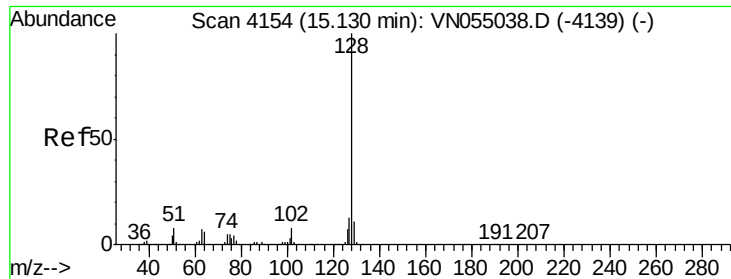
Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Tgt Ion:	225	Resp:	42085
Ion Ratio	Lower	Upper	
225	100		
223	60.3	31.4	94.0
227	61.1	32.6	97.7





#95

Naphthalene

Concen: 17.144 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Instrument :

MSVOA_N

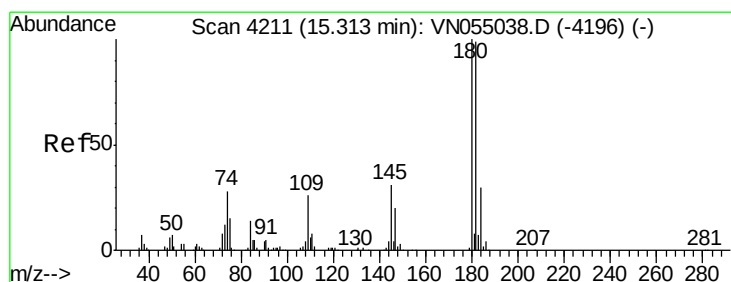
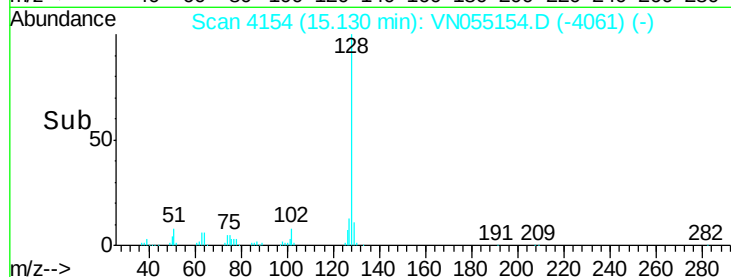
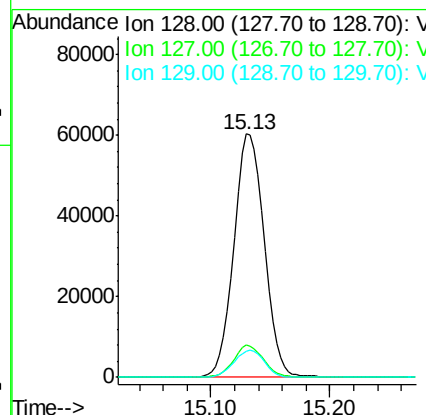
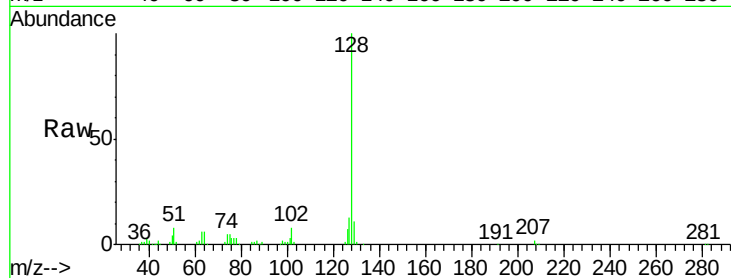
ClientSampled :

VN0419WBSD02

Tot Ion:	128	Resp:	107019
Ion Ratio	Lower	Upper	
128	100		
127	12.8	10.1	15.1
129	11.0	8.8	13.2

Manual Integrations
APPROVED

MMDadoda
4/22/2019 10:07:34 AM



#96

1,2,3-Trichlorobenzene

Concen: 18.670 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN055154.D

Acq: 19 Apr 2019 22:03

Tgt Ion:	180	Resp:	48497
Ion Ratio	Lower	Upper	
180	100		
182	92.4	48.0	144.0
145	29.8	15.3	45.9

