

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN020419\
 Data File : VN053590.D
 Acq On : 4 Feb 2019 12:23
 Operator : JC/SP
 Sample : VN0204MBS01
 Misc : 5.00µL/100µL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 6 Sample Multiplier: 28

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBS01

Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 9:53:51 AM

Quant Time: Feb 05 02:27:04 2019
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N013019W.M
 Quant Title : SW846 8260
 QLast Update : Fri Feb 01 09:11:52 2019
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.67	168	697239	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.59	114	1045956	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	921320	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	436769	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	347468	49.68	ug/l	0.00
Spiked Amount	50.000		Recovery	=	99.36%	
35) Dibromofluoromethane	7.59	113	333576	50.47	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.94%	
50) Toluene-d8	10.09	98	1218383	49.10	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.20%	
62) 4-Bromofluorobenzene	12.40	95	397685	48.05	ug/l	0.00
Spiked Amount	50.000		Recovery	=	96.10%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	144775	18.631	ug/l	99
3) Chloromethane	2.06	50	155316	18.763	ug/l	98
4) Vinyl Chloride	2.19	62	151795	18.891	ug/l	99
5) Bromomethane	2.57	94	103318	19.665	ug/l	96
6) Chloroethane	2.71	64	87274	19.006	ug/l	98
7) Trichlorofluoromethane	3.02	101	205731	18.880	ug/l	99
8) Diethyl Ether	3.41	74	75806	19.049	ug/l	99
9) 1,1,2-Trichlorotrifluoroet	3.76	101	126724	18.804	ug/l	98
10) Methyl Iodide	3.95	142	192038	18.155	ug/l	100
11) Tert butyl alcohol	4.78	59	40536	97.922	ug/l	100
12) 1,1-Dichloroethene	3.74	96	123243	19.088	ug/l	96
13) Acrolein	3.61	56	22078	97.957	ug/l	99
14) Allyl chloride	4.33	41	192760	18.750	ug/l	98
15) Acrylonitrile	4.99	53	227294	101.708	ug/l	99
16) Acetone	3.82	43	169156	94.282	ug/l	100
17) Carbon Disulfide	4.06	76	359107	17.862	ug/l	100
18) Methyl Acetate	4.33	43	106127	19.973	ug/l	100
19) Methyl tert-butyl Ether	5.05	73	318991	19.489	ug/l	100
20) Methylene Chloride	4.55	84	137860	18.315	ug/l	99
21) trans-1,2-Dichloroethene	5.05	96	128249	18.411	ug/l	96
22) Diisopropyl ether	5.95	45	364965	19.160	ug/l	97
23) Vinyl Acetate	5.90	43	1278149	96.995	ug/l	98
24) 1,1-Dichloroethane	5.85	63	242184	19.062	ug/l	98
25) 2-Butanone	6.84	43	244651	95.610	ug/l	98
26) 2,2-Dichloropropane	6.83	77	176169	18.164	ug/l	99
27) cis-1,2-Dichloroethene	6.83	96	148497	19.172	ug/l	99
28) Bromochloromethane	7.20	49	110622	20.064	ug/l	97
29) Tetrahydrofuran	7.21	42	166221	101.162	ug/l	97
30) Chloroform	7.37	83	235298	18.682	ug/l	99
31) Cyclohexane	7.65	56	213643	17.952	ug/l	94
32) 1,1,1-Trichloroethane	7.57	97	199159	19.001	ug/l	99
36) 1,1-Dichloropropene	7.79	75	174195	18.475	ug/l	98
37) Ethyl Acetate	6.93	43	113127	21.483	ug/l	100
38) Carbon Tetrachloride	7.77	117	177353	18.672	ug/l	97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	197160	17.625	ug/l	100
40) Benzene	8.04	78	557774	19.184	ug/l	99
41) Methacrylonitrile	7.18	41	63171	21.464	ug/l	93
42) 1,2-Dichloroethane	8.13	62	165792	19.204	ug/l	100
43) Isopropyl Acetate	8.16	43	183328	18.027	ug/l #	89
44) Trichloroethene	8.83	130	155744	18.815	ug/l	98
45) 1,2-Dichloropropane	9.12	63	144160	19.385	ug/l	97
46) Dibromomethane	9.21	93	87246	19.462	ug/l	98
47) Bromodichloromethane	9.40	83	179522	19.260	ug/l	100
48) Methyl methacrylate	9.20	41	98171	20.223	ug/l	97
49) 1,4-Dioxane	9.20	88	27014	408.130	ug/l #	95
51) 4-Methyl-2-Pentanone	9.99	43	507235	101.500	ug/l	100
52) Toluene	10.16	92	334167	19.365	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	171797	18.406	ug/l	98
54) cis-1,3-Dichloropropene	9.84	75	207615	18.771	ug/l	99
55) 1,1,2-Trichloroethane	10.56	97	123710	19.895	ug/l	98
56) Ethyl methacrylate	10.43	69	142630	19.390	ug/l	97
57) 1,3-Dichloropropane	10.71	76	206930	19.472	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	410833	95.179	ug/l	99
59) 2-Hexanone	10.75	43	327477	96.527	ug/l	100
60) Dibromochloromethane	10.90	129	136110	19.411	ug/l	100
61) 1,2-Dibromoethane	11.00	107	118376	19.234	ug/l	98
64) Tetrachloroethene	10.63	164	145543	18.428	ug/l	99
65) Chlorobenzene	11.43	112	362939	18.546	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	130993	19.166	ug/l	99
67) Ethyl Benzene	11.51	91	603963	18.787	ug/l	100
68) m/p-Xylenes	11.62	106	467514	38.104	ug/l	100
69) o-Xylene	11.95	106	227534	19.196	ug/l	99
70) Styrene	11.96	104	370035	19.260	ug/l	100
71) Bromoform	12.13	173	93427	19.939	ug/l #	100
73) Isopropylbenzene	12.25	105	592715	19.304	ug/l	99
74) N-amyl acetate	12.07	43	142020	19.235	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.50	83	143903	19.583	ug/l	100
76) 1,2,3-Trichloropropane	12.55	75	118955m	21.204	ug/l	
77) Bromobenzene	12.53	156	157148	18.991	ug/l	99
78) n-propylbenzene	12.59	91	683567	19.258	ug/l	99
79) 2-Chlorotoluene	12.68	91	409381	19.440	ug/l	100
80) 1,3,5-Trimethylbenzene	12.73	105	508052	19.954	ug/l	100
81) trans-1,4-Dichloro-2-buten	12.30	75	36891	18.491	ug/l	98
82) 4-Chlorotoluene	12.77	91	413593	19.140	ug/l	99
83) tert-Butylbenzene	12.99	119	450584	20.023	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	518232	19.978	ug/l	99
85) sec-Butylbenzene	13.17	105	606672	19.811	ug/l	100
86) p-Isopropyltoluene	13.29	119	529399	19.767	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	279706	18.803	ug/l	100
88) 1,4-Dichlorobenzene	13.36	146	279368	18.986	ug/l	99
89) n-Butylbenzene	13.62	91	435993	18.808	ug/l	100
90) Hexachloroethane	13.87	117	86042	19.477	ug/l	96
91) 1,2-Dichlorobenzene	13.65	146	274732	19.291	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	20715	19.780	ug/l	97

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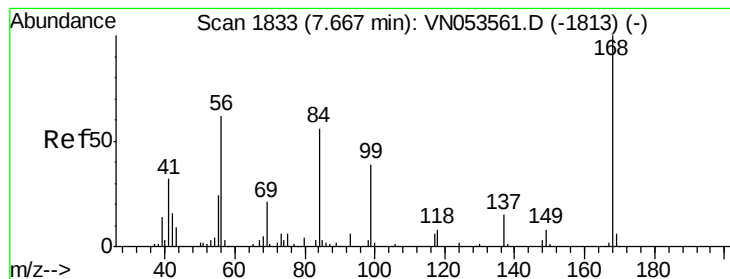
Manual Integrations
APPROVED

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	153972	18.851	ug/l	100
94) Hexachlorobutadiene	15.01	225	100316	19.722	ug/l	99
95) Naphthalene	15.13	128	327296	18.203	ug/l	100
96) 1,2,3-Trichlorobenzene	15.31	180	147000	19.397	ug/l	100

(#) = 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: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

ClientSampleId :

VN0204MBS01

Tot Ion:168 Resp: 697239

Ion Ratio Lower Upper

168 100

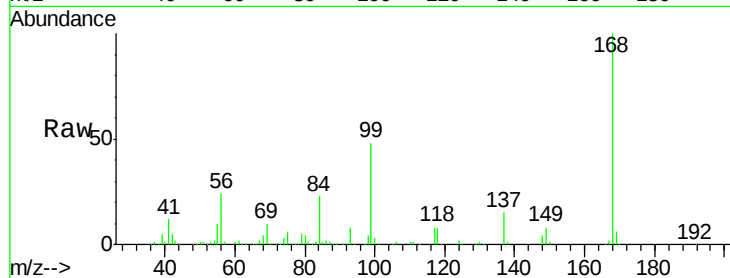
99 47.5 39.1 58.7

Manual Integrations

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2/5/2019 9:53:51 AM



Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VN0

7.67

250000

200000

150000

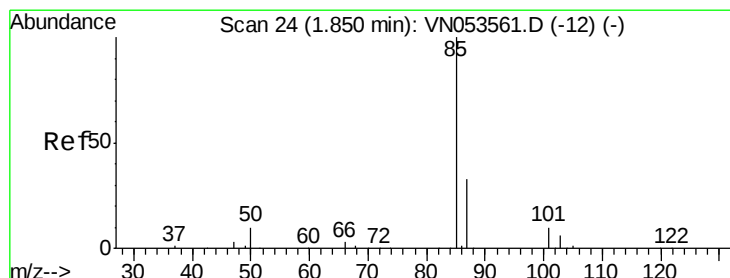
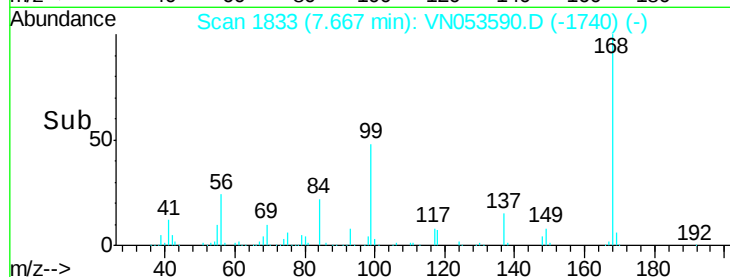
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50000

0

7.60 7.80 8.00

Time-->



#2

Dichlorodifluoromethane

Concen: 18.631 ug/l

RT: 1.85 min Scan# 24

Delta R.T. 0.00 min

Lab File: VN053590.D

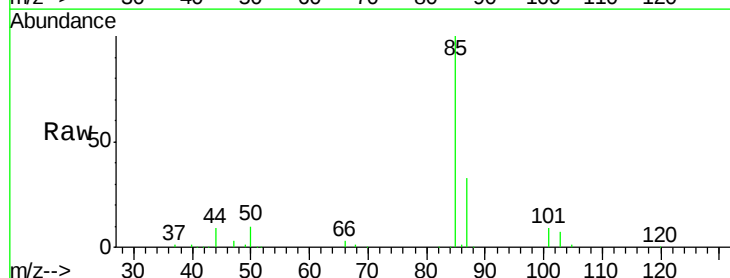
Acq: 4 Feb 2019 12:23

Tgt Ion: 85 Resp: 144775

Ion Ratio Lower Upper

85 100

87 33.0 16.2 48.5



Abundance Ion 84.90 (84.60 to 85.60): VN0

Ion 86.90 (86.60 to 87.60): VN0

120000

100000

80000

60000

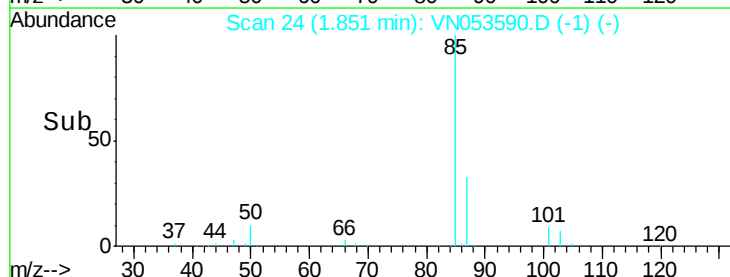
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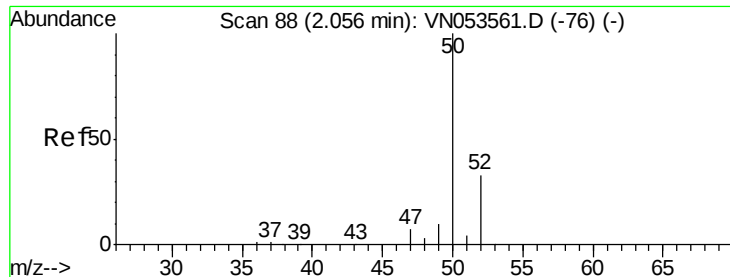
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0

1.80 1.85 1.90 1.95

Time-->





#3

Chloromethane

Concen: 18.763 ug/l

RT: 2.06 min Scan# 88

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

ClientSampled :

VN0204MBS01

Tot Ion: 50 Resp: 155316

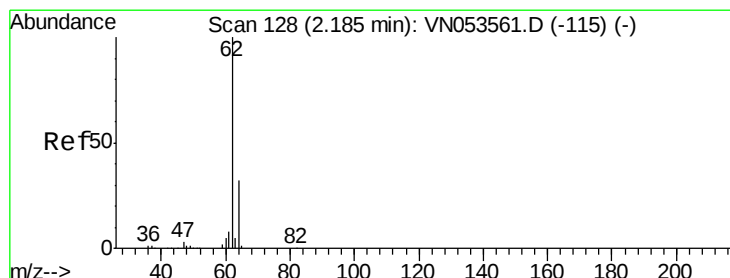
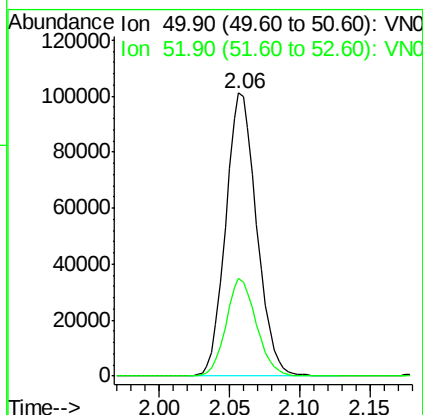
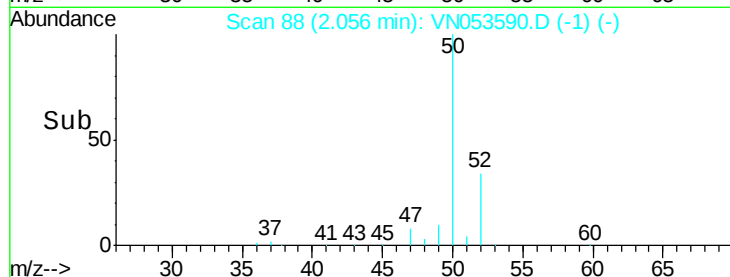
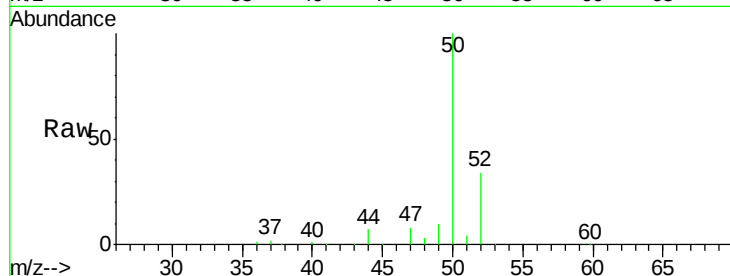
Ion Ratio Lower Upper

50 100

52 34.4 26.6 40.0

Manual Integrations
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#4

Vinyl Chloride

Concen: 18.891 ug/l

RT: 2.19 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN053590.D

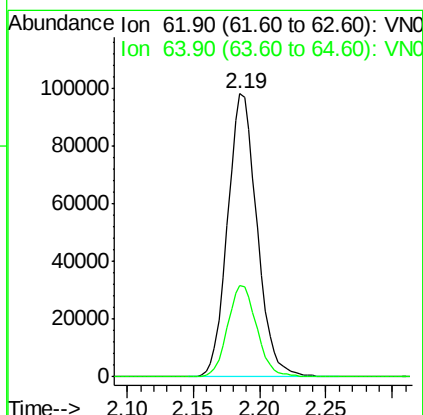
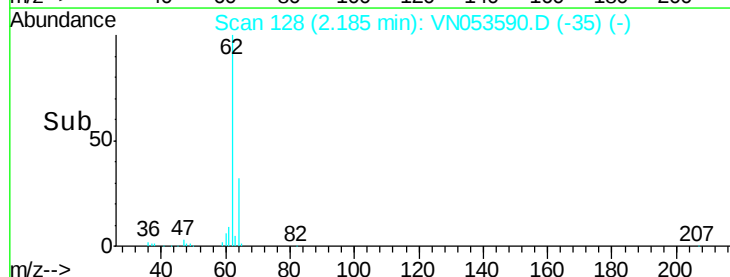
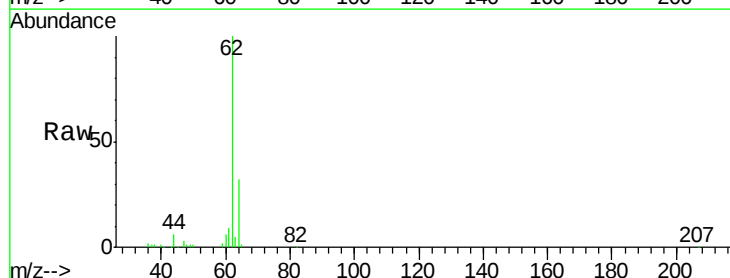
Acq: 4 Feb 2019 12:23

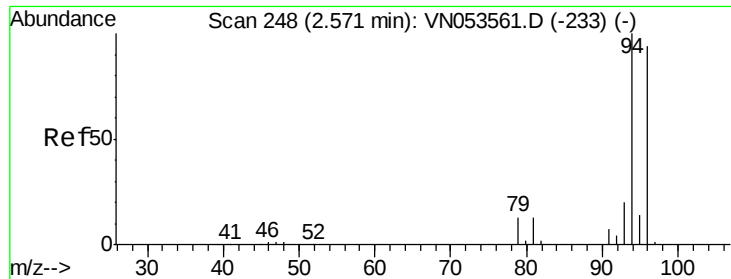
Tgt Ion: 62 Resp: 151795

Ion Ratio Lower Upper

62 100

64 32.5 25.4 38.2





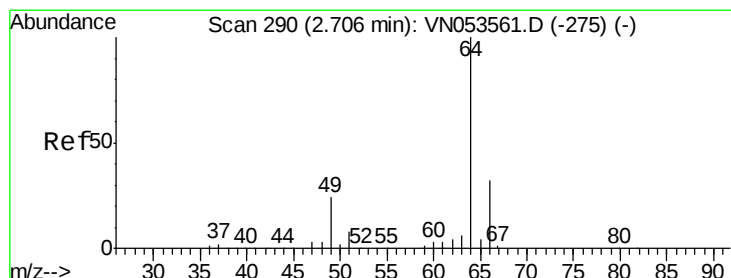
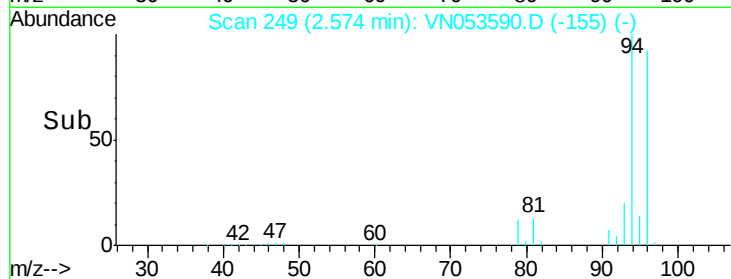
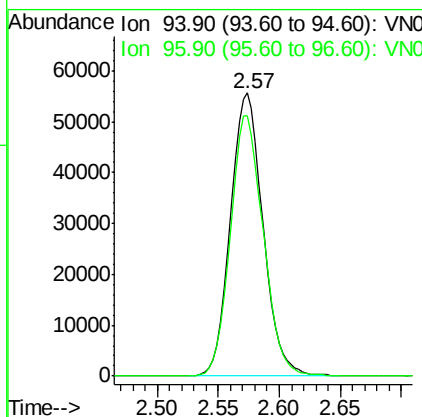
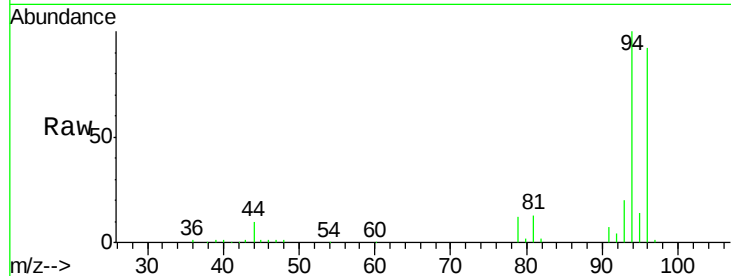
#5
Bromomethane
Concen: 19.665 ug/l
RT: 2.57 min Scan# 249
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
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Tot Ion	94	Resp	103318
Ion Ratio	100	Lower	Upper
96	92.1	76.8	115.2

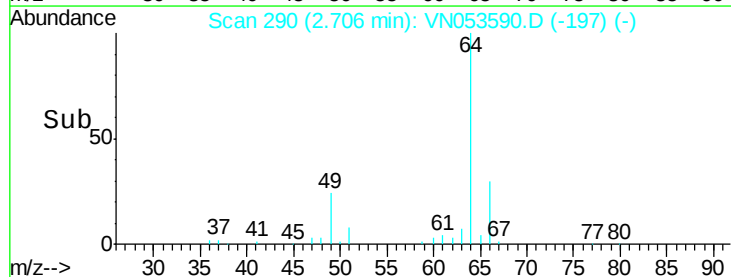
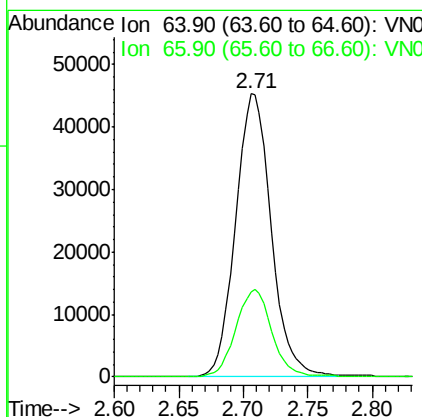
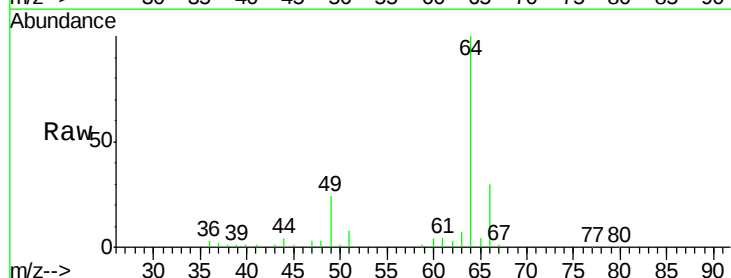
Manual Integrations
APPROVED

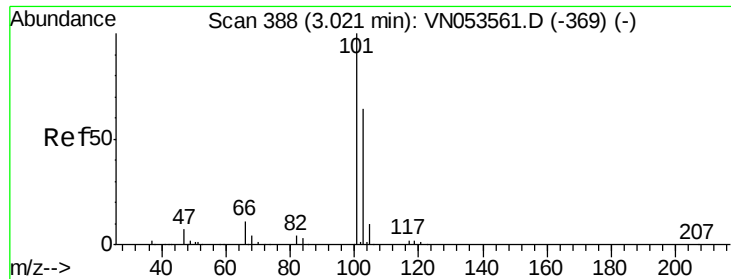
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#6
Chloroethane
Concen: 19.006 ug/l
RT: 2.71 min Scan# 290
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	64	Resp	87274
Ion Ratio	100	Lower	Upper
66	30.1	25.1	37.7





#7

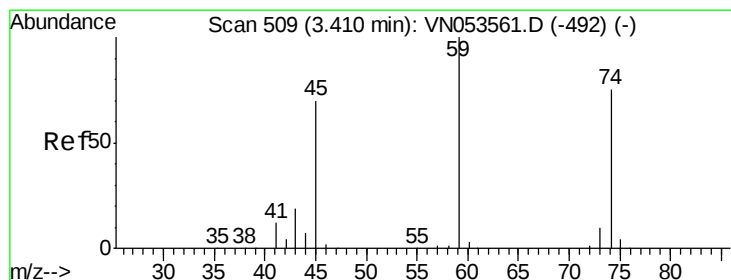
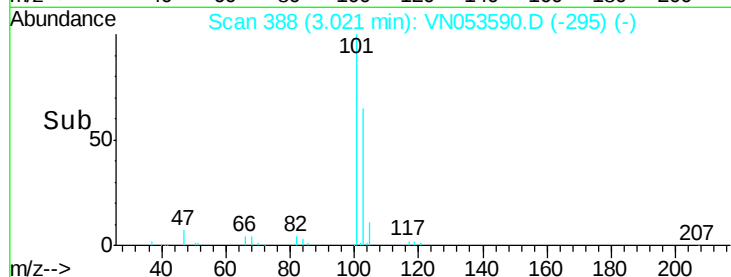
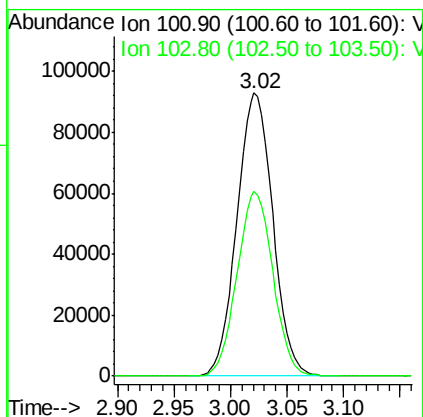
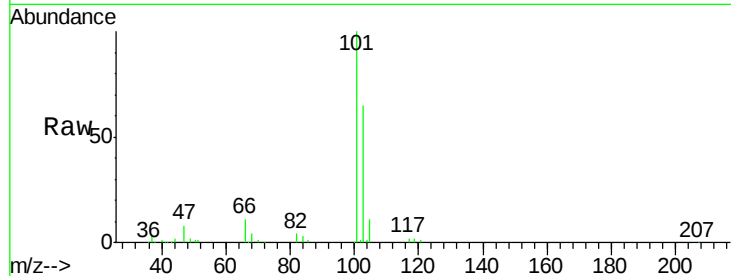
Trichlorofluoromethane
 Concen: 18.880 ug/l
 RT: 3.02 min Scan# 388
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Instrument :
 MSVOA_N
 ClientSampled :
 VN0204MBS01

Tot Ion	Ratio	Lower	Upper
101	100		
103	65.4	51.6	77.4

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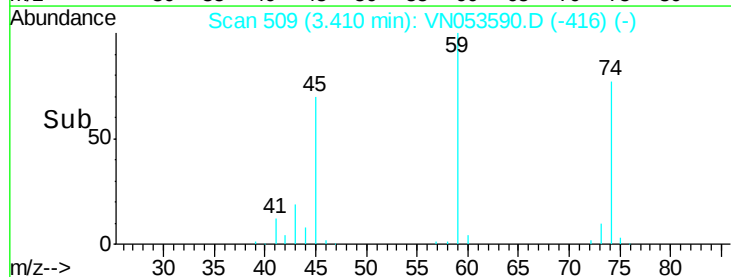
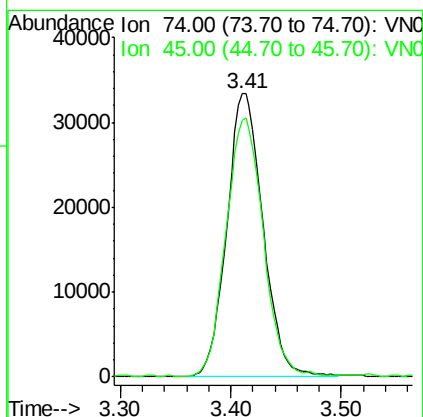
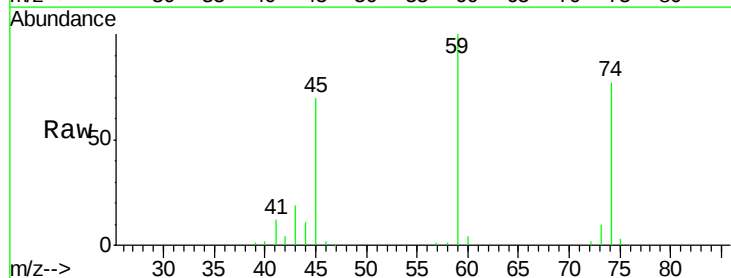
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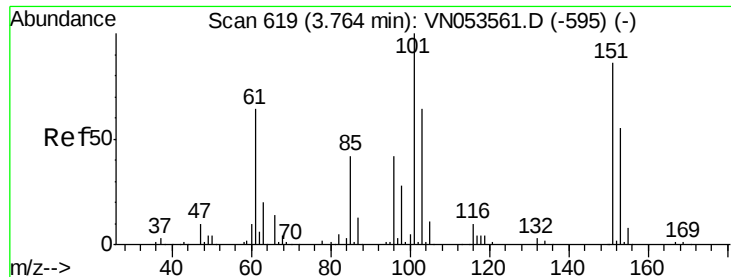


#8

Diethyl Ether
 Concen: 19.049 ug/l
 RT: 3.41 min Scan# 509
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Lower	Upper
74	100		
45	94.4	47.9	143.7





#9

1,1,2-Trichlorotrifluoroethane

Concen: 18.804 ug/l

RT: 3.76 min Scan# 618

Delta R.T. -0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

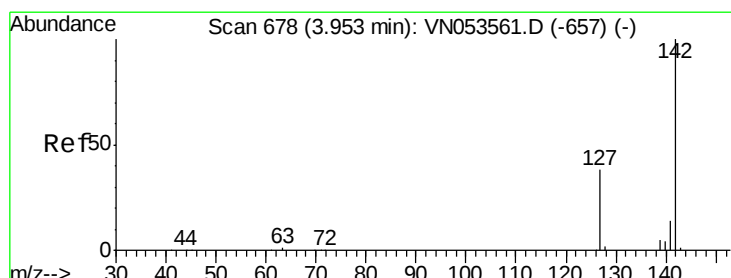
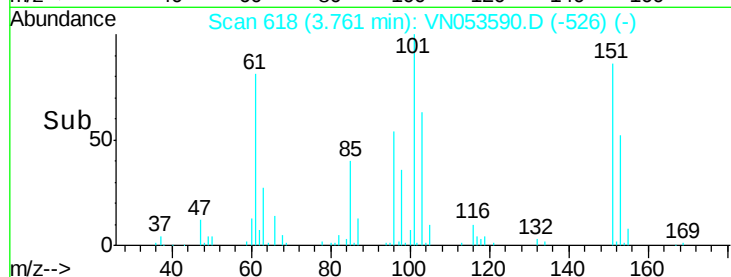
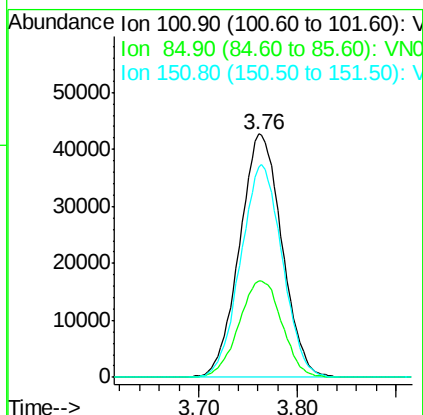
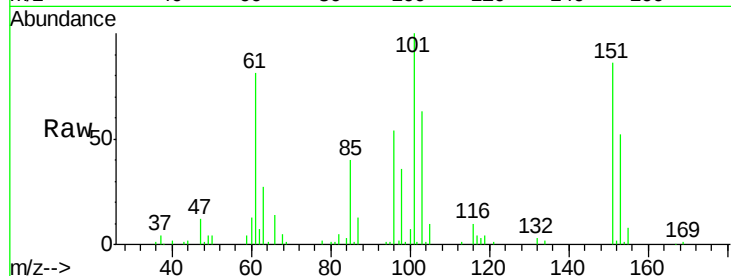
ClientSampleId :

VN0204MBS01

Tot Ion:	101	Resp:	126724
Ion Ratio	Lower	Upper	
101	100		
85	40.4	32.8	49.2
151	86.0	66.9	100.3

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#10

Methyl Iodide

Concen: 18.155 ug/l

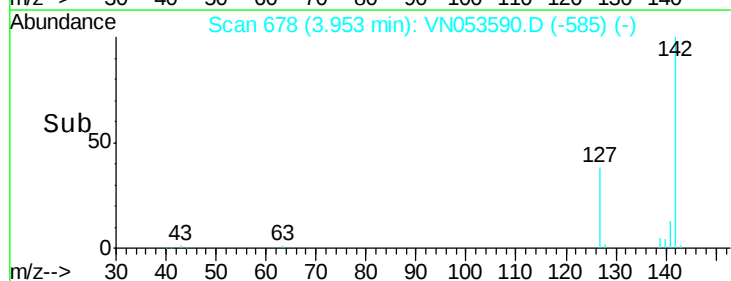
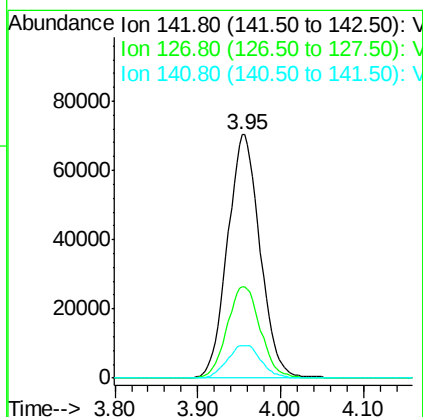
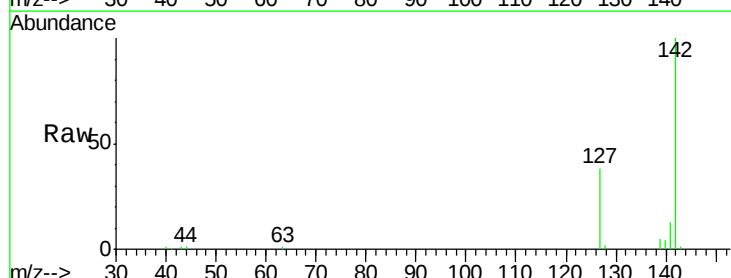
RT: 3.95 min Scan# 678

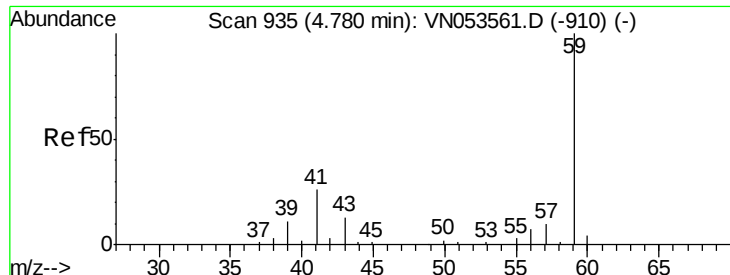
Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Tgt Ion:	142	Resp:	192038
Ion Ratio	Lower	Upper	
142	100		
127	38.5	31.0	46.4
141	13.9	11.1	16.7





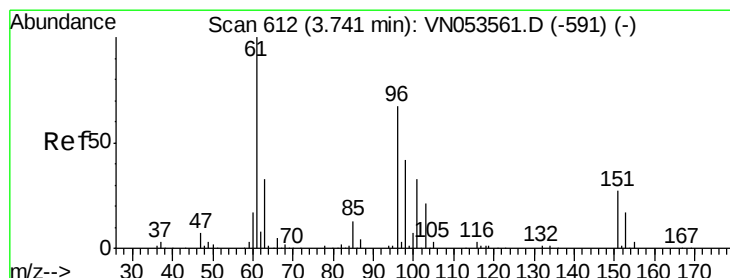
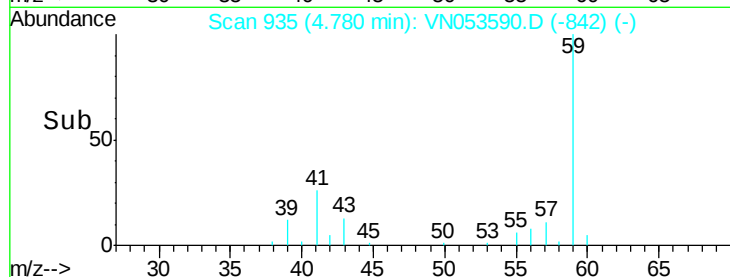
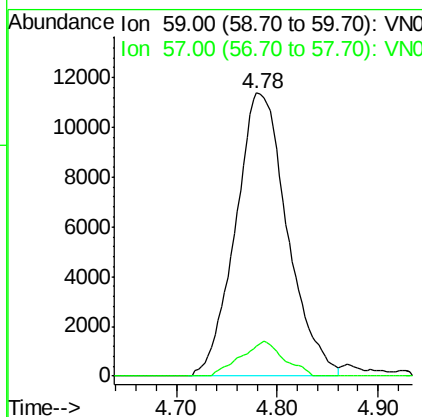
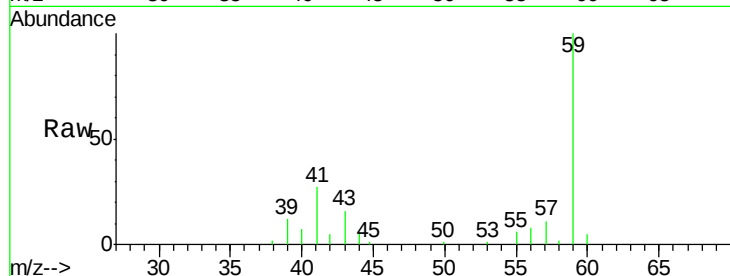
#11
Tert butyl alcohol
Concen: 97.922 ug/l
RT: 4.78 min Scan# 935
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampled :
VN0204MBS01

Tot Ion: 59 Resp: 40536
Ion Ratio Lower Upper
59 100
57 10.3 8.2 12.4

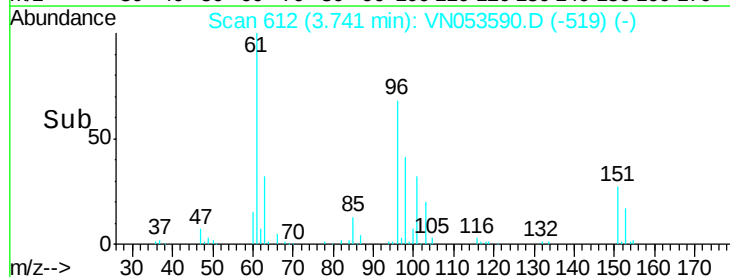
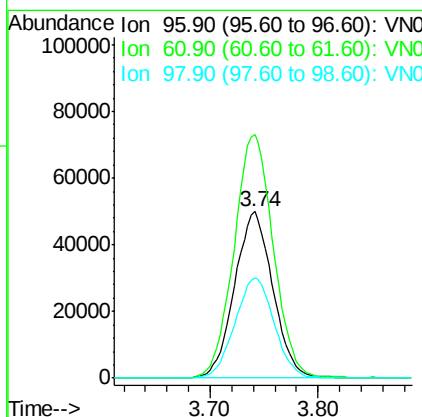
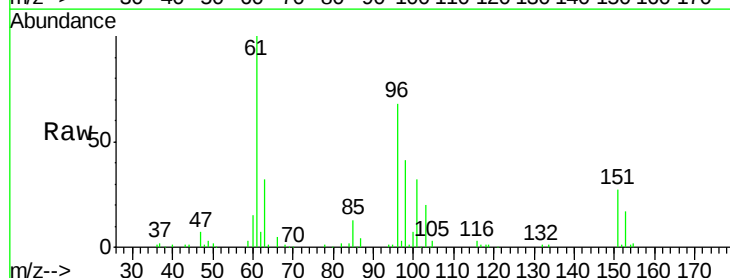
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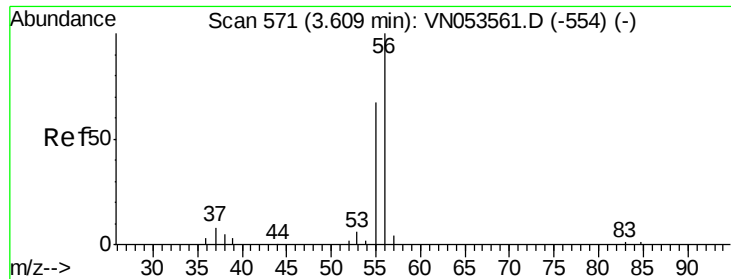
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#12
1,1-Dichloroethene
Concen: 19.088 ug/l
RT: 3.74 min Scan# 612
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion: 96 Resp: 123243
Ion Ratio Lower Upper
96 100
61 146.4 122.9 184.3
98 60.6 49.4 74.0





#13

Acrolein

Concen: 97.957 ug/l

RT: 3.61 min Scan# 571

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

ClientSampled :

VN0204MBS01

Tot Ion: 56 Resp: 22078

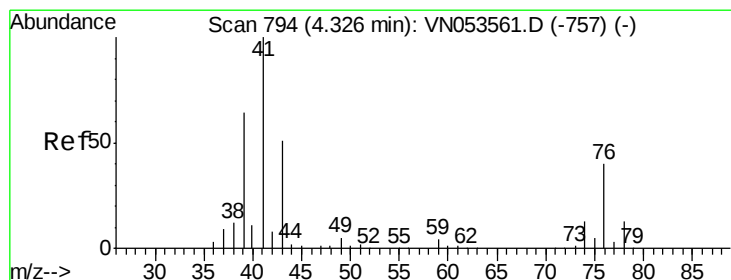
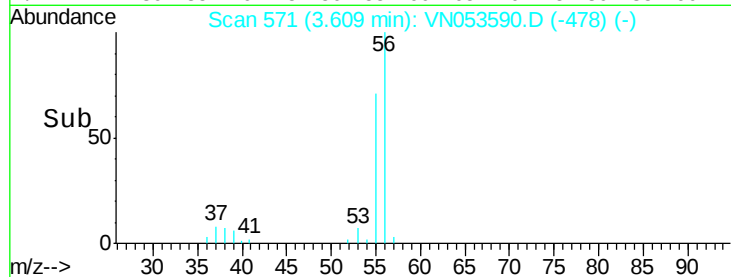
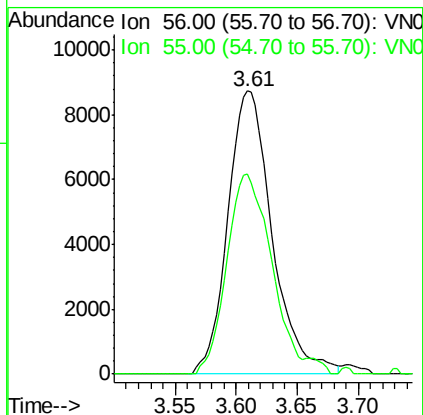
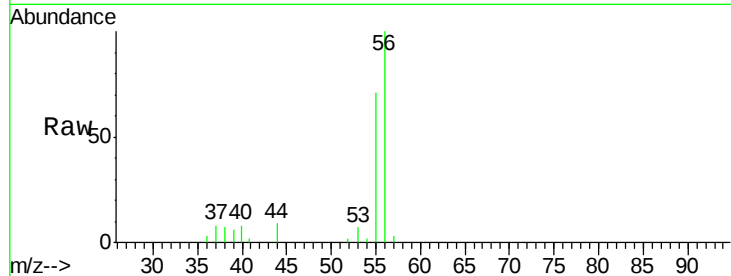
Ion Ratio Lower Upper

56 100

55 70.5 57.4 86.0

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#14

Allyl chloride

Concen: 18.750 ug/l

RT: 4.33 min Scan# 794

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

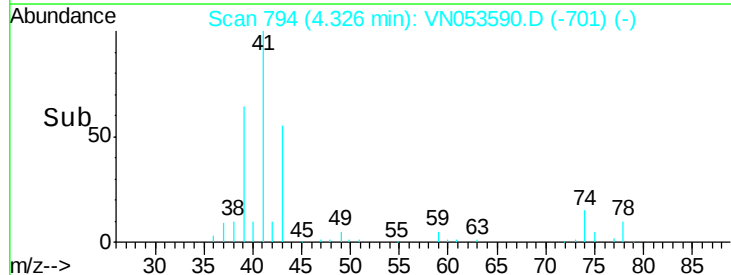
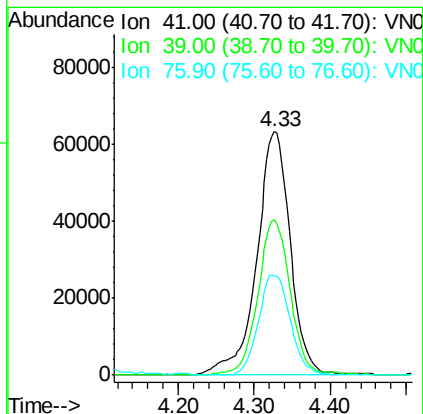
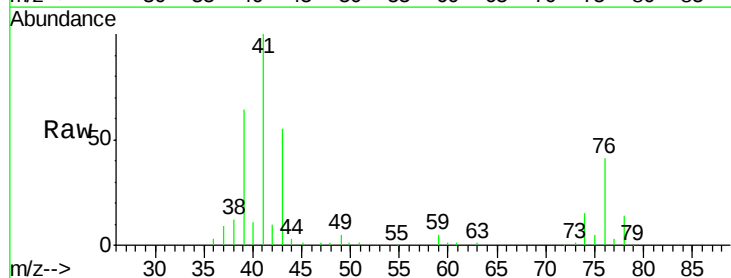
Tgt Ion: 41 Resp: 192760

Ion Ratio Lower Upper

41 100

39 61.9 48.9 73.3

76 39.2 29.4 44.2





#15

Acrylonitrile

Concen: 101.708 ug/l

RT: 4.99 min Scan# 1000

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

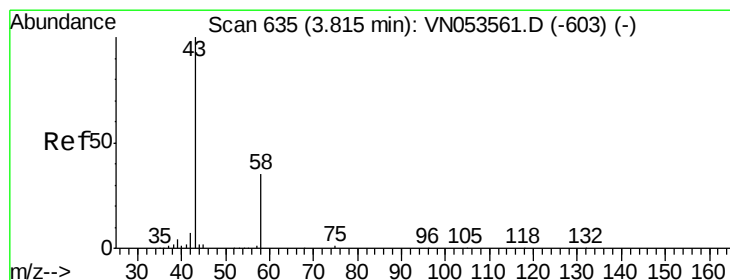
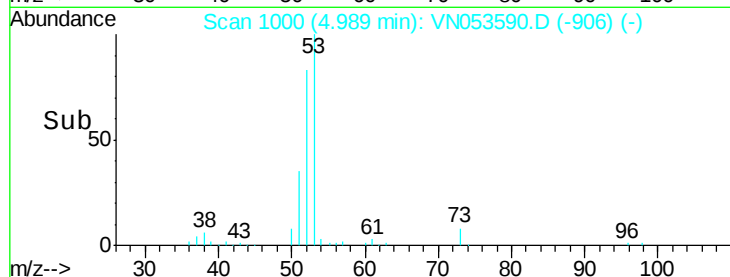
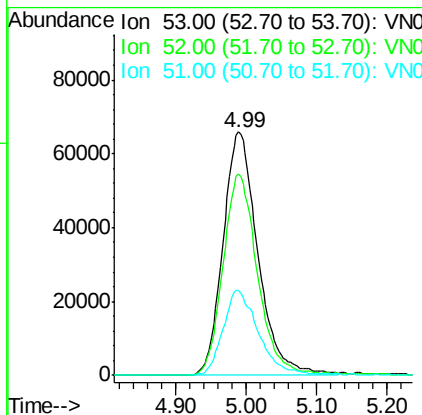
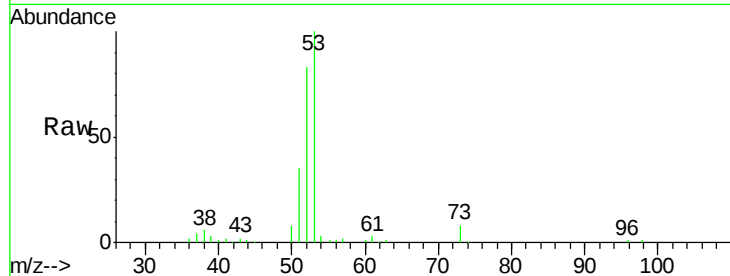
ClientSampleId :

VN0204MBS01

Tot Ion:	53	Resp:	227294
Ion Ratio	Lower	Upper	
53	100		
52	81.4	66.0	99.0
51	35.6	28.3	42.5

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#16

Acetone

Concen: 94.282 ug/l

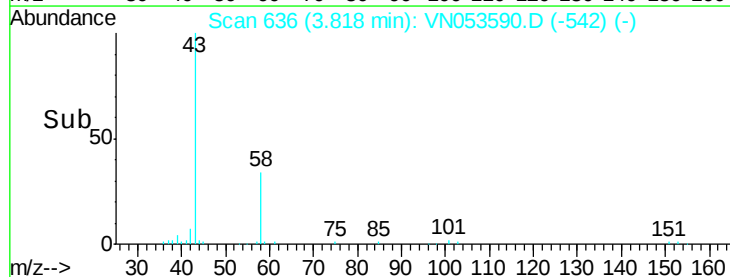
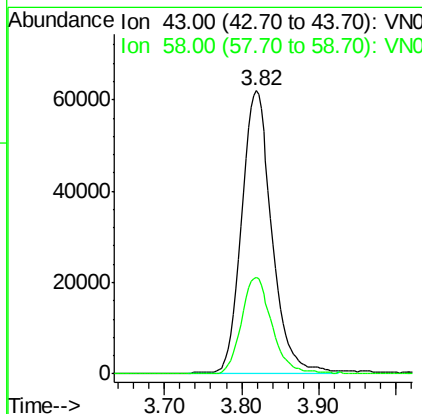
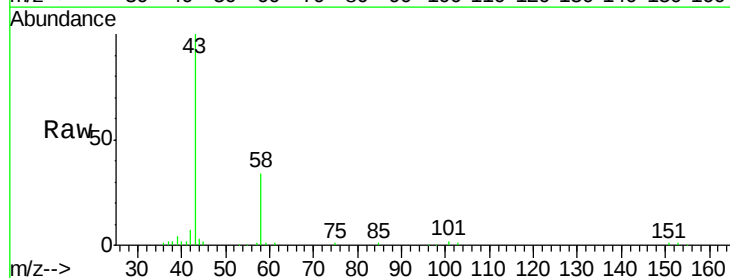
RT: 3.82 min Scan# 636

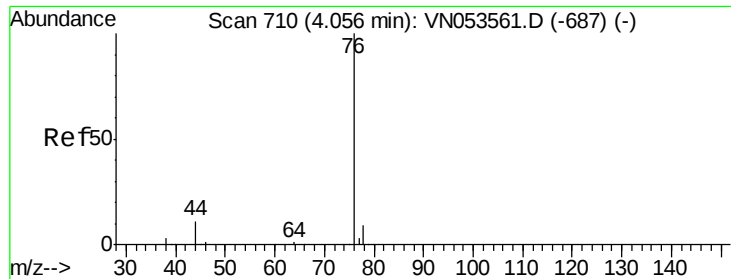
Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Tgt Ion:	43	Resp:	169156
Ion Ratio	Lower	Upper	
43	100		
58	33.9	27.1	40.7





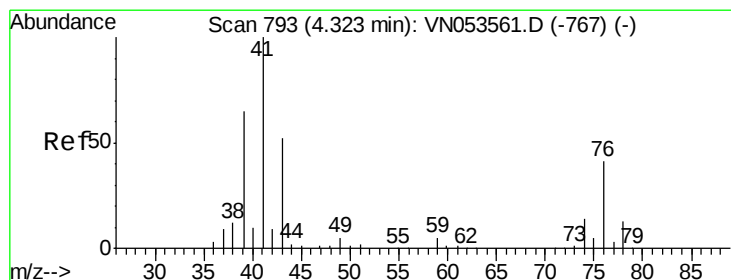
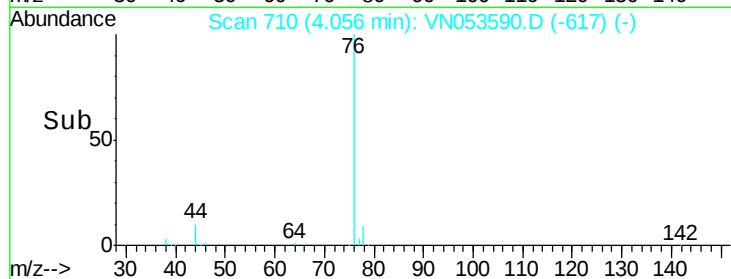
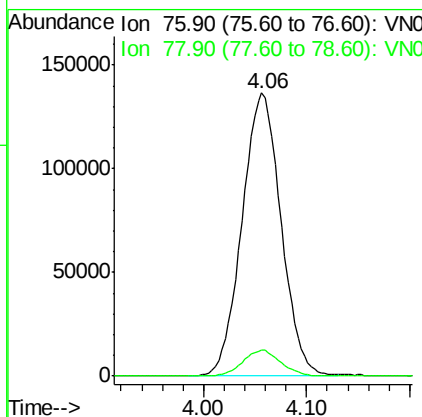
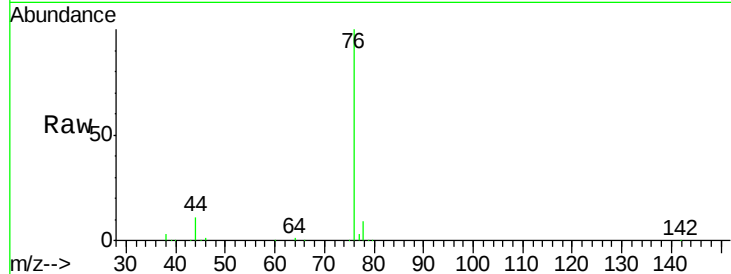
#17
Carbon Disulfide
Concen: 17.862 ug/l
RT: 4.06 min Scan# 710
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

Tot Ion	Ratio	Lower	Upper
76	100		
78	9.2	7.3	10.9

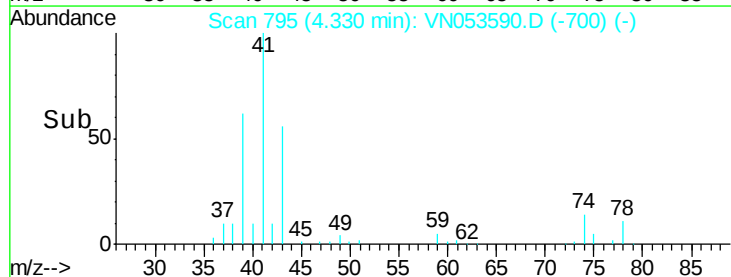
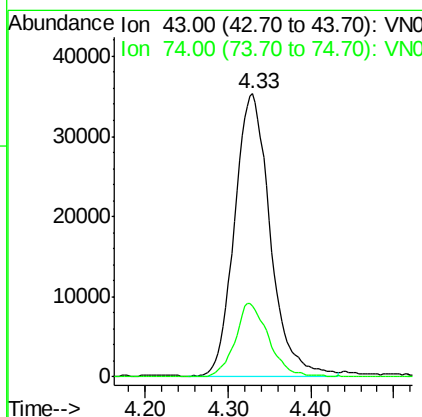
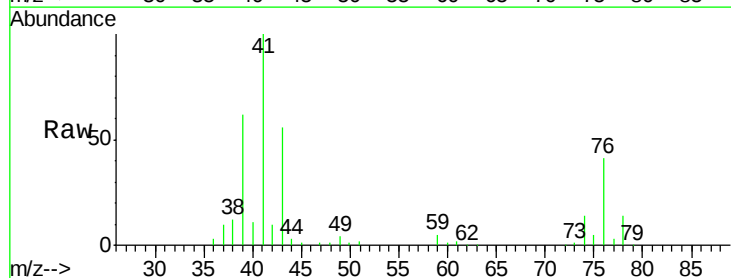
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#18
Methyl Acetate
Concen: 19.973 ug/l
RT: 4.33 min Scan# 795
Delta R.T. 0.01 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Lower	Upper
43	100		
74	24.2	19.4	29.2





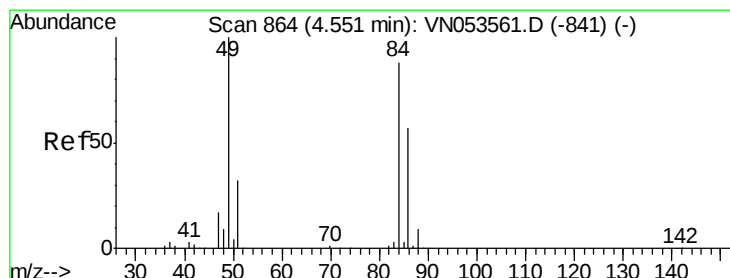
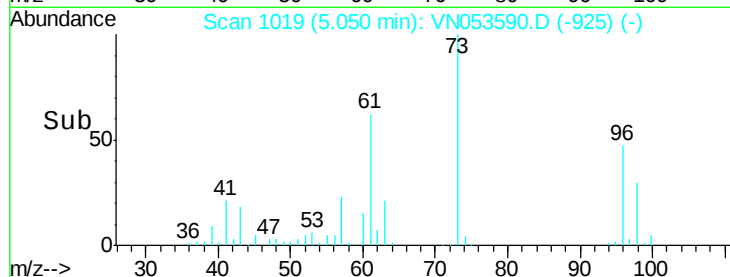
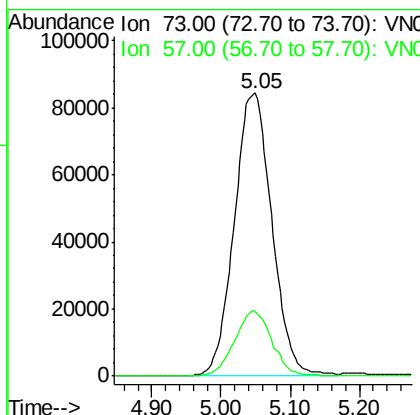
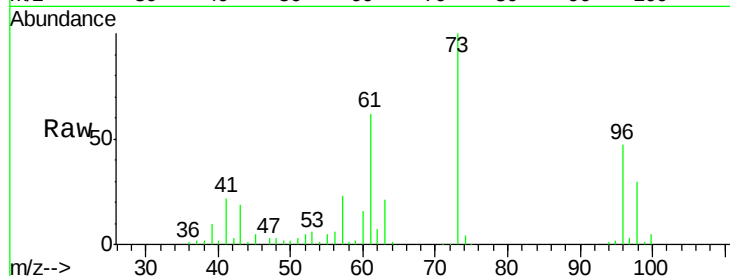
#19
Methyl tert-butyl Ether
Concen: 19.489 ug/l
RT: 5.05 min Scan# 1019
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampled :
VN0204MBS01

Tot Ion: 73 Resp: 318991
Ion Ratio Lower Upper
73 100
57 23.0 18.3 27.5

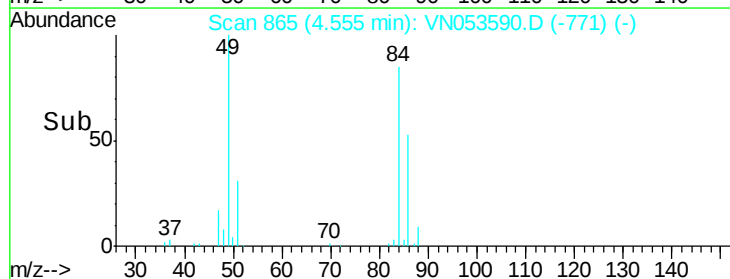
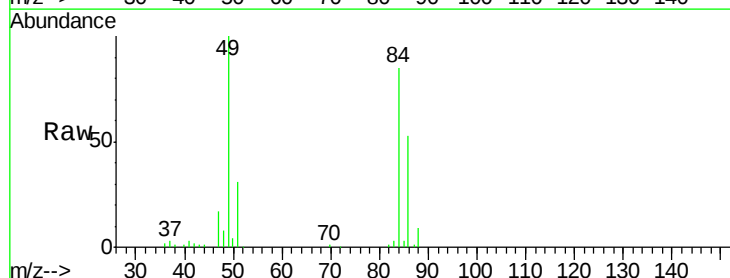
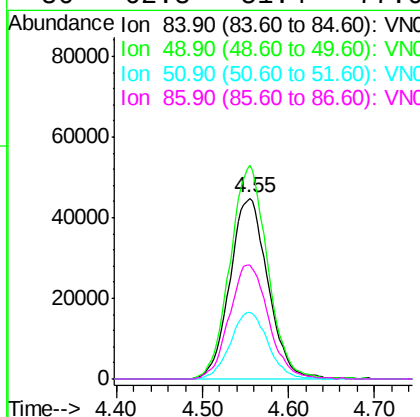
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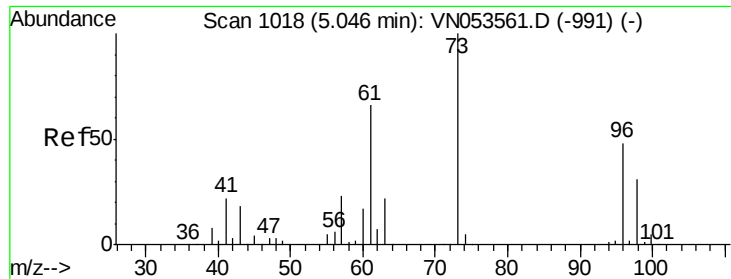
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#20
Methylene Chloride
Concen: 18.315 ug/l
RT: 4.55 min Scan# 865
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion: 84 Resp: 137860
Ion Ratio Lower Upper
84 100
49 118.1 94.3 141.5
51 37.1 29.4 44.2
86 62.8 51.4 77.0





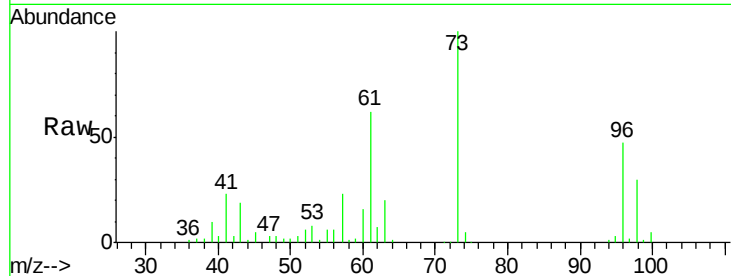
#21
trans-1,2-Dichloroethene
Concen: 18.411 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampled :
VN0204MBS01

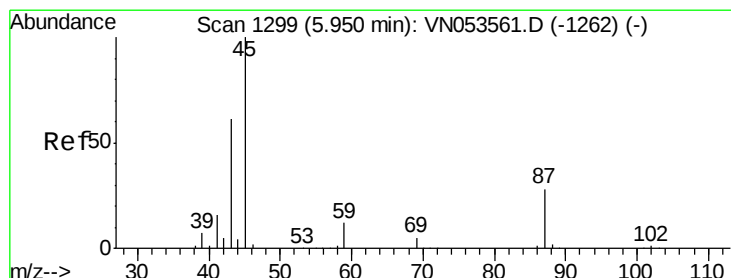
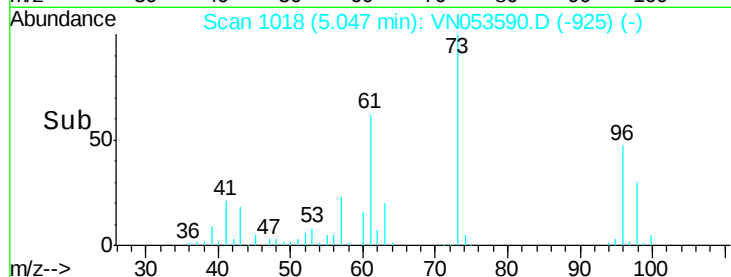
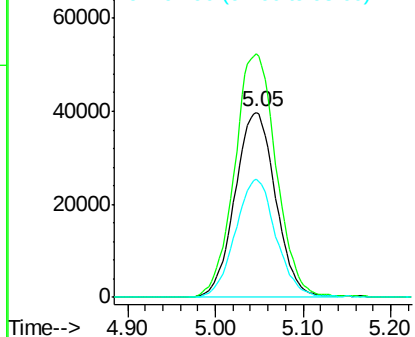
Tot Ion	Ratio	Lower	Upper
96	100		
61	131.6	110.1	165.1
98	63.9	50.0	75.0

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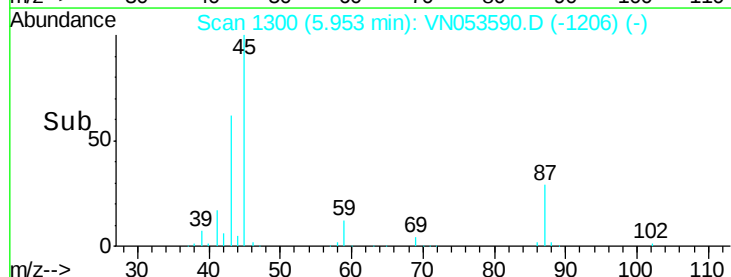
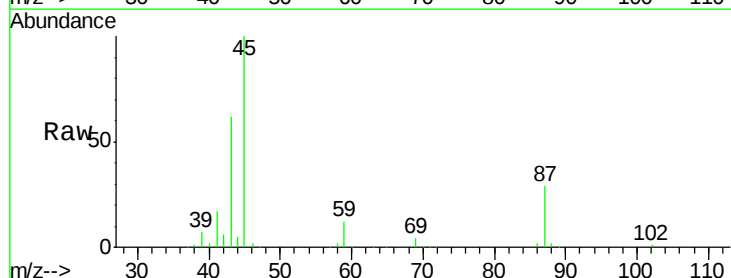
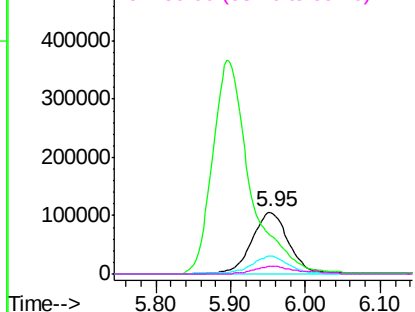
Abundance Ion 95.90 (95.60 to 96.60): VNC
Ion 60.90 (60.60 to 61.60): VNC
Ion 97.90 (97.60 to 98.60): VNC

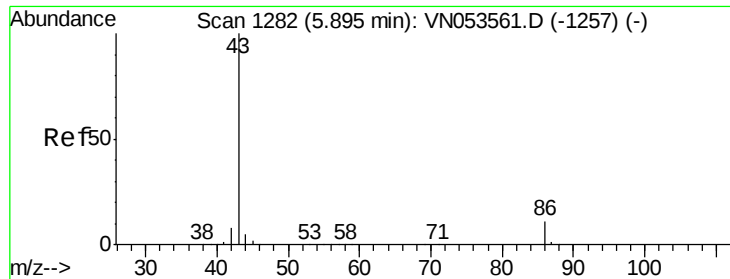


#22
Diisopropyl ether
Concen: 19.160 ug/l
RT: 5.95 min Scan# 1300
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.6	44.2	66.4
87	27.9	22.7	34.1
59	11.9	9.4	14.2

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





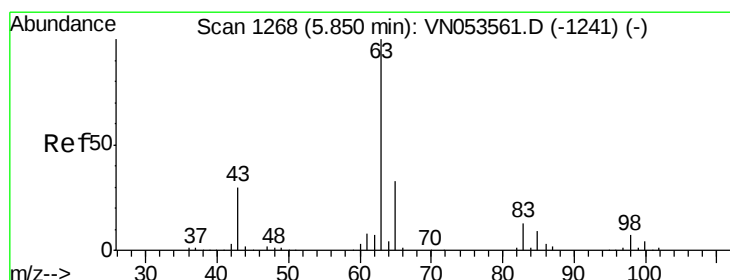
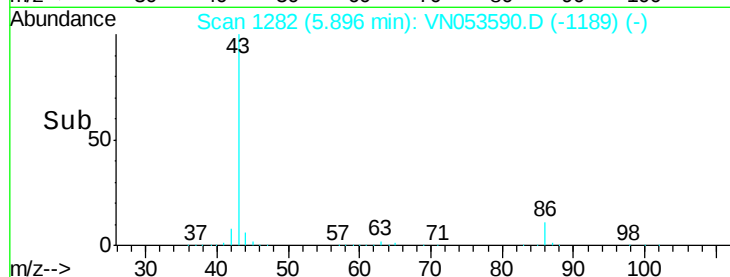
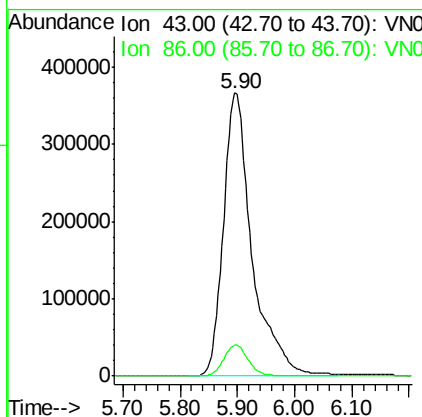
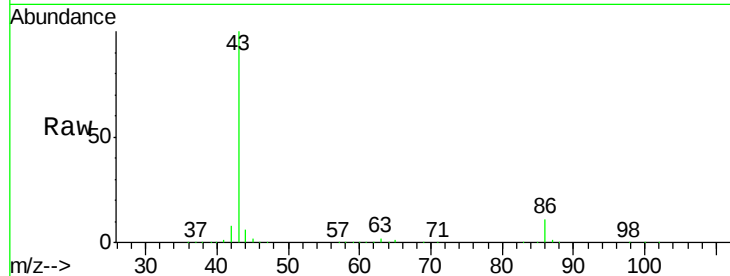
#23
 Vinyl Acetate
 Concen: 96.995 ug/l
 RT: 5.90 min Scan# 1282
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBS01

Tot Ion: 43 Resp: 1278149
 Ion Ratio Lower Upper
 43 100
 86 11.1 8.4 12.6

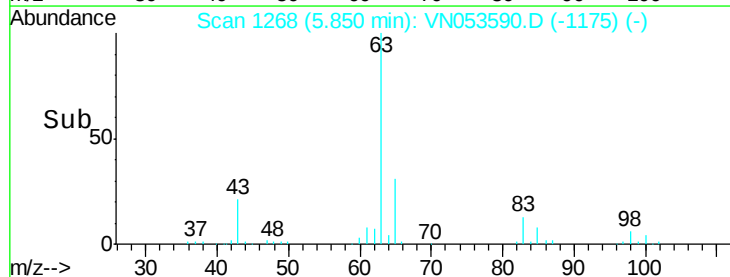
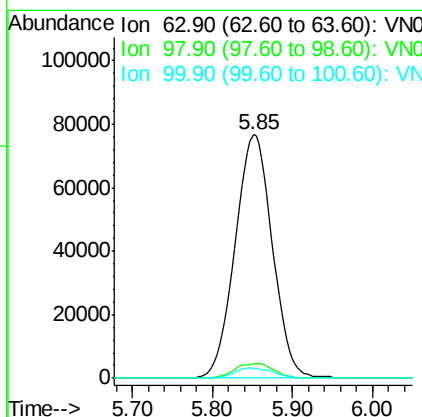
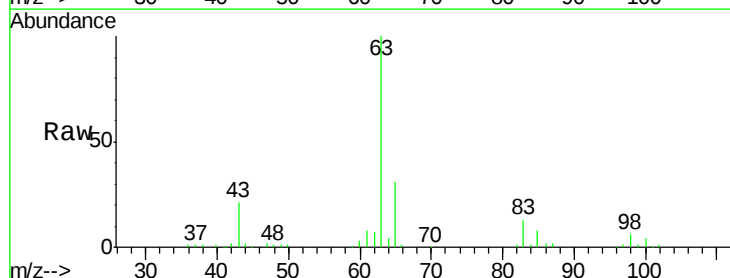
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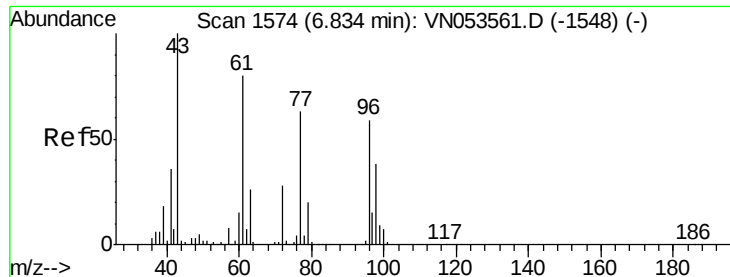
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#24
 1,1-Dichloroethane
 Concen: 19.062 ug/l
 RT: 5.85 min Scan# 1268
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Tgt Ion: 63 Resp: 242184
 Ion Ratio Lower Upper
 63 100
 98 5.8 3.3 9.9
 100 4.1 2.1 6.5





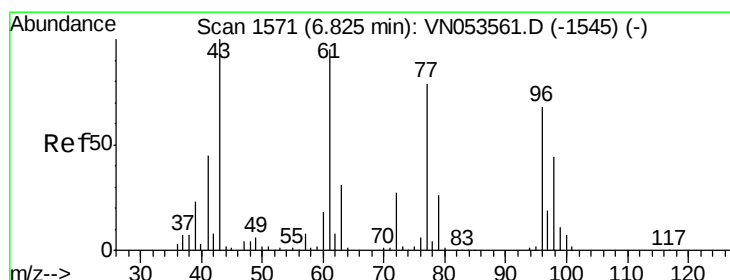
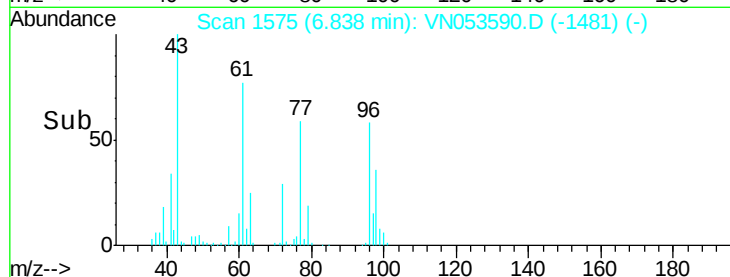
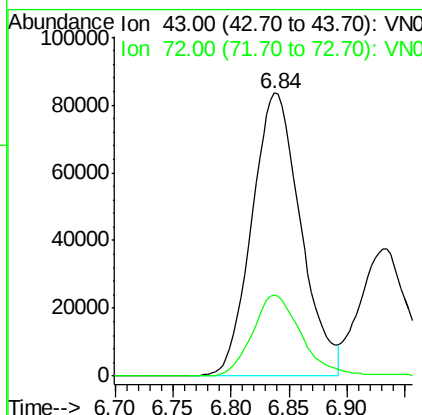
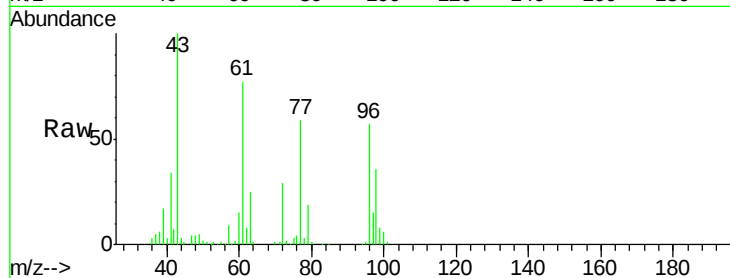
#25
2-Butanone
Concen: 95.610 ug/l
RT: 6.84 min Scan# 1575
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

Tot Ion: 43 Resp: 244651
Ion Ratio Lower Upper
43 100
72 28.7 22.0 33.0

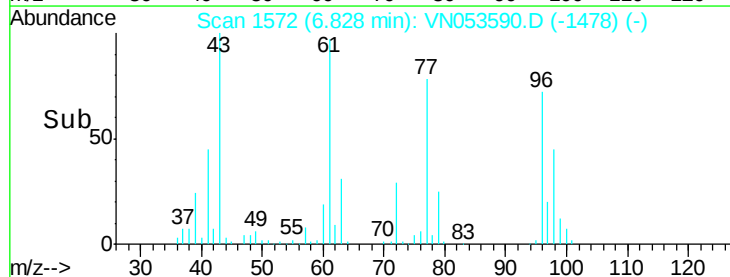
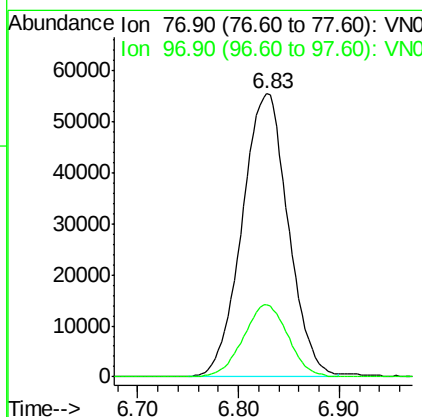
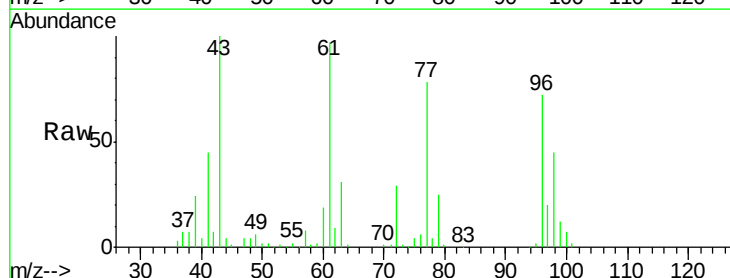
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#26
2,2-Dichloropropane
Concen: 18.164 ug/l
RT: 6.83 min Scan# 1572
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion: 77 Resp: 176169
Ion Ratio Lower Upper
77 100
97 24.7 12.2 36.6





#27

cis-1,2-Dichloroethene

Concen: 19.172 ug/l

RT: 6.83 min Scan# 1572

Delta R.T. -0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

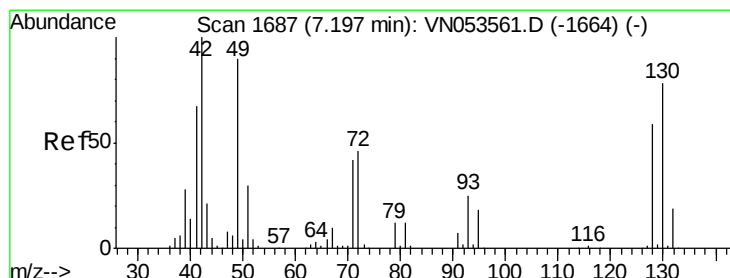
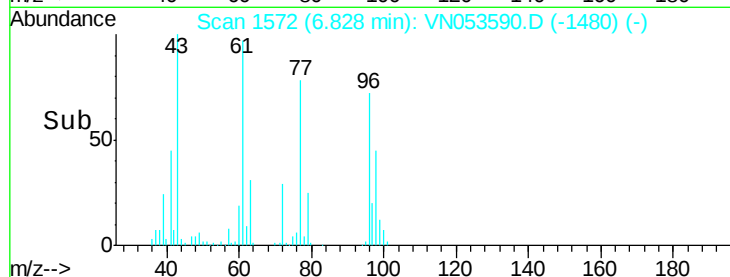
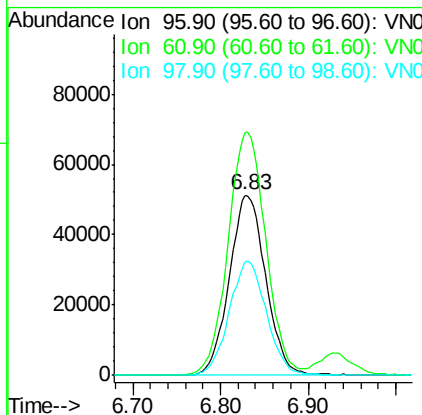
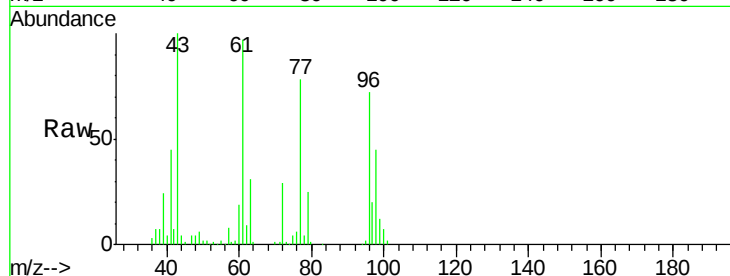
ClientSampleId :

VN0204MBS01

Tot Ion:	96	Resp:	148497
Ion	Ratio	Lower	Upper
96	100		
61	139.5	0.0	283.8
98	64.4	0.0	129.2

Manual Integrations
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2/5/2019 9:53:51 AM



#28

Bromochloromethane

Concen: 20.064 ug/l

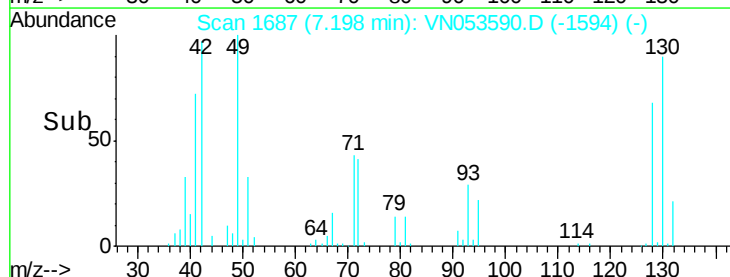
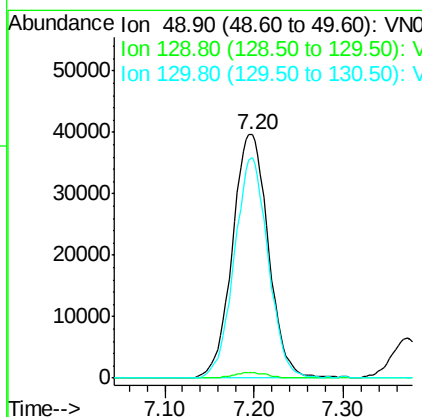
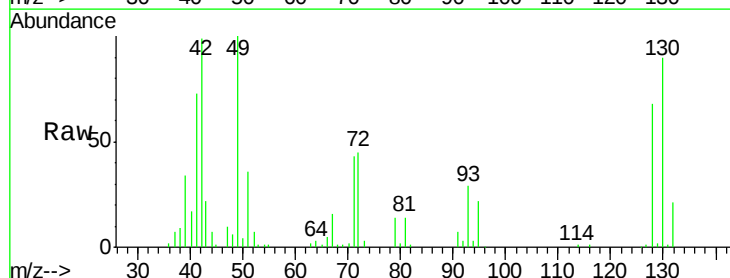
RT: 7.20 min Scan# 1687

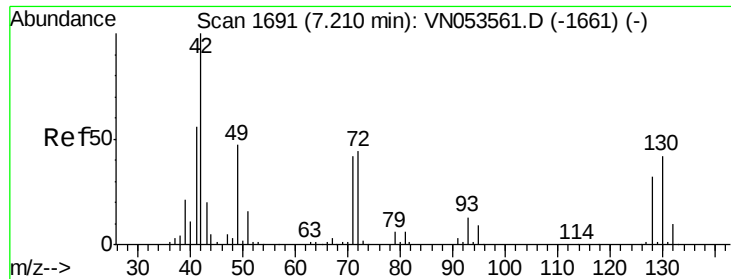
Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Tgt Ion:	49	Resp:	110622
Ion	Ratio	Lower	Upper
49	100		
129	2.0	0.0	4.0
130	85.4	66.3	99.5





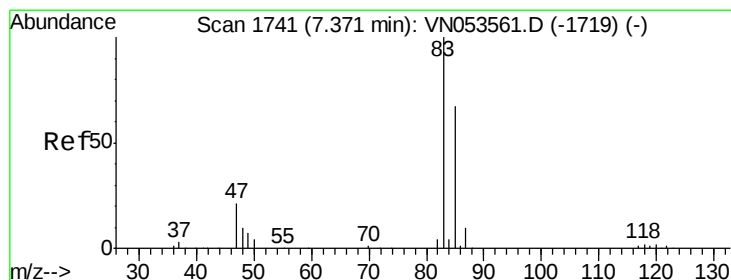
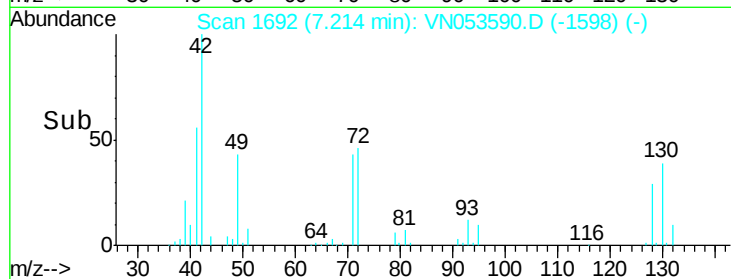
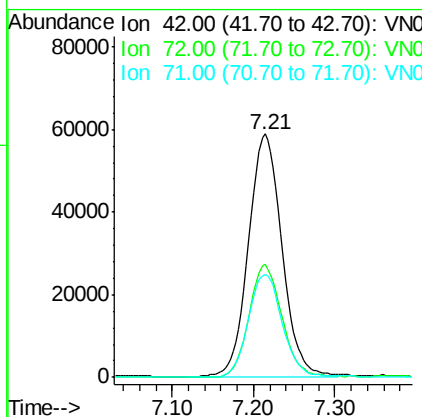
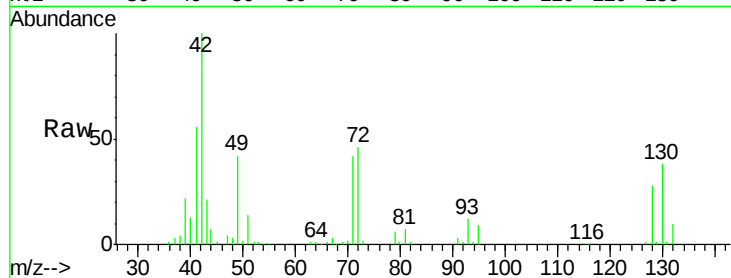
#29
Tetrahydrofuran
Concen: 101.162 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

Tot Ion	Ratio	Lower	Upper
42	100		
72	45.7	35.2	52.8
71	43.3	33.0	49.4

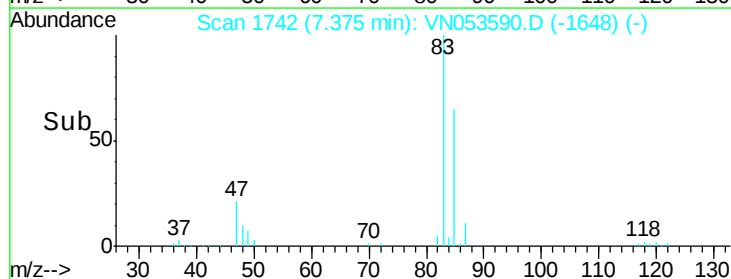
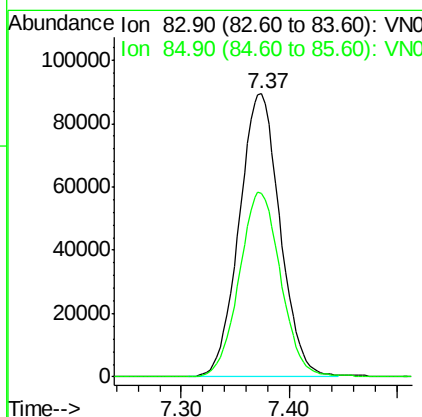
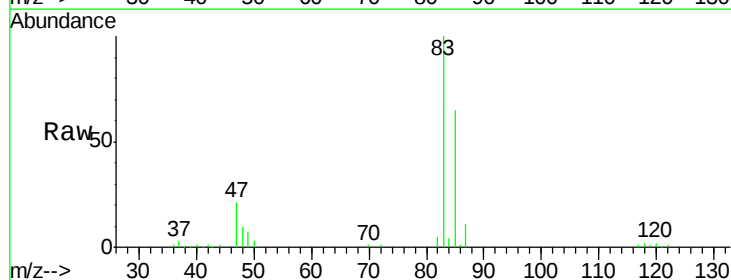
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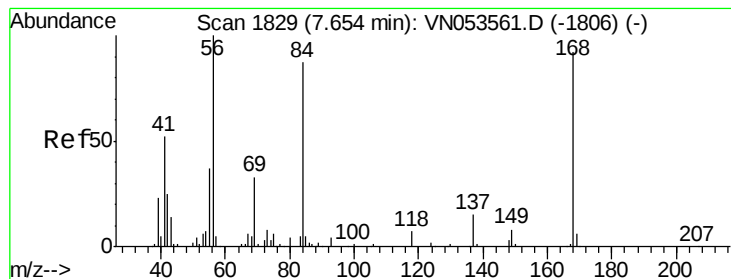
MMDadoda
2/5/2019 9:53:51 AM



#30
Chloroform
Concen: 18.682 ug/l
RT: 7.37 min Scan# 1742
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Lower	Upper
83	100		
85	64.8	52.2	78.2





#31

Cyclohexane

Concen: 17.952 ug/l

RT: 7.65 min Scan# 1829

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

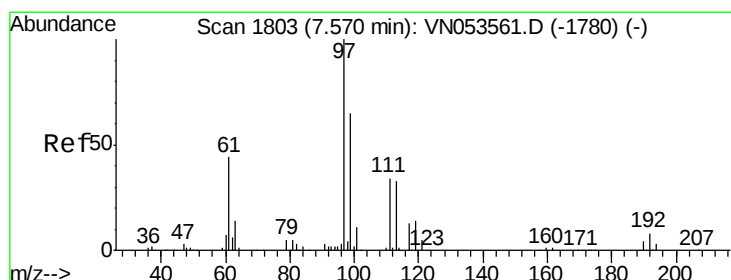
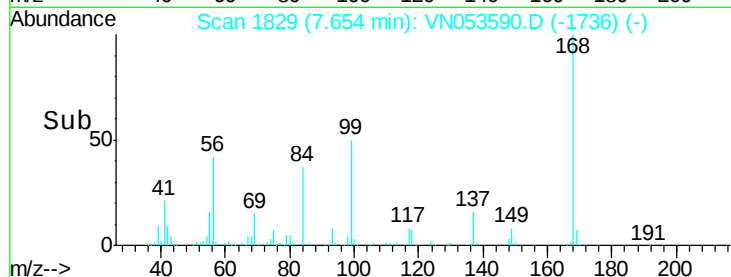
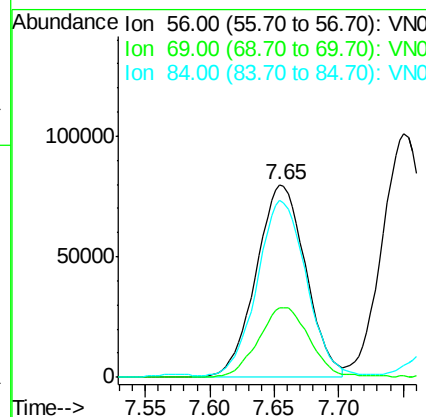
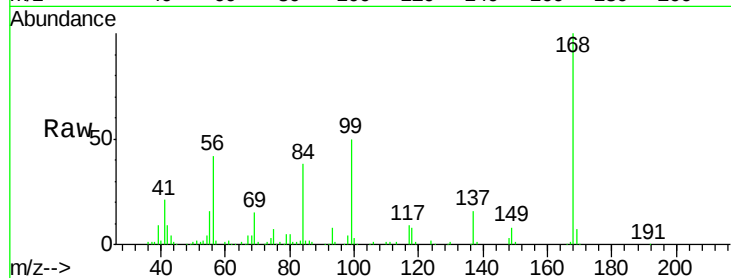
ClientSampled :

VN0204MBS01

Tot Ion:	56	Resp:	213643
Ion Ratio	Lower	Upper	
56	100		
69	35.9	26.4	39.6
84	90.5	67.9	101.9

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 19.001 ug/l

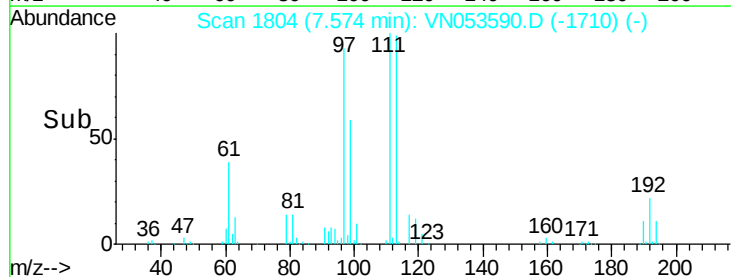
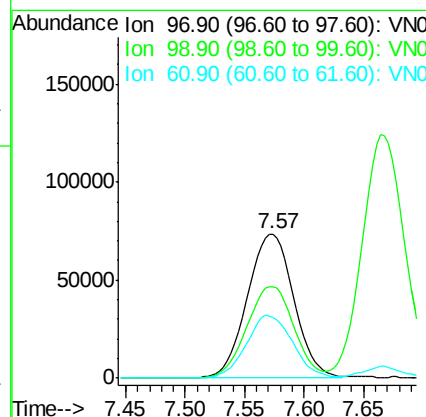
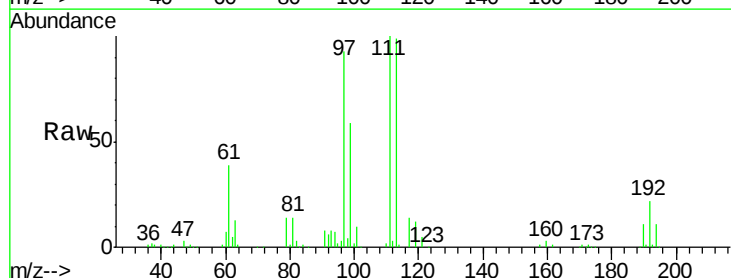
RT: 7.57 min Scan# 1804

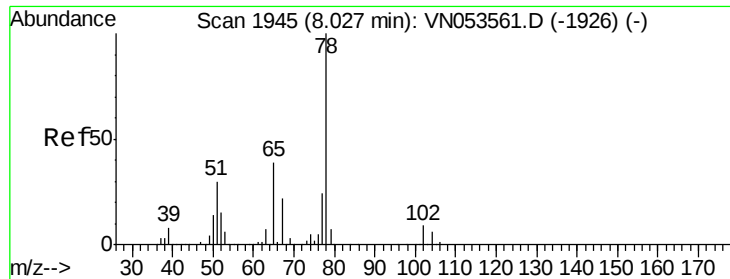
Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Tgt Ion:	97	Resp:	199159
Ion Ratio	Lower	Upper	
97	100		
99	64.5	52.0	78.0
61	43.3	34.4	51.6





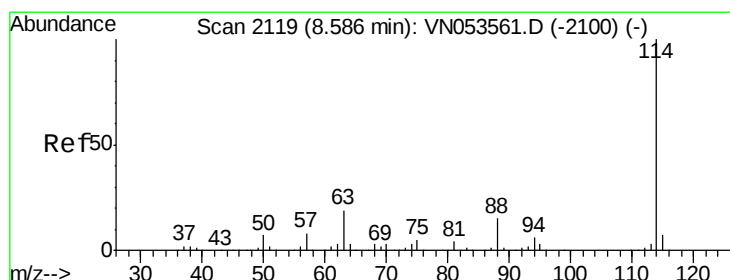
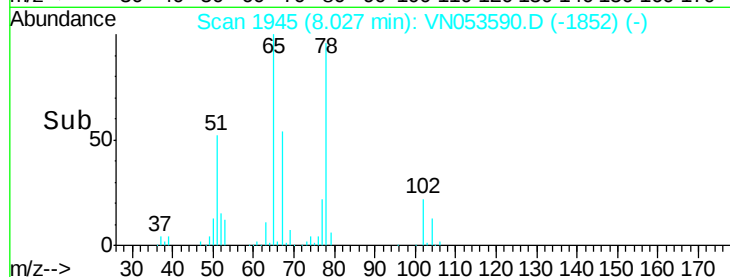
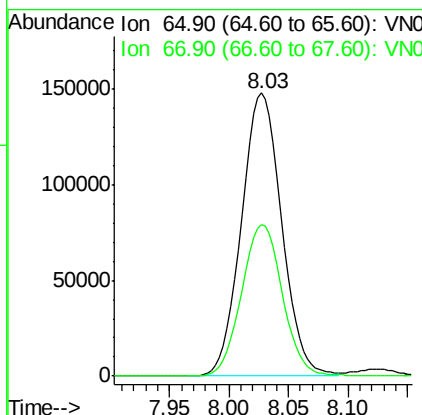
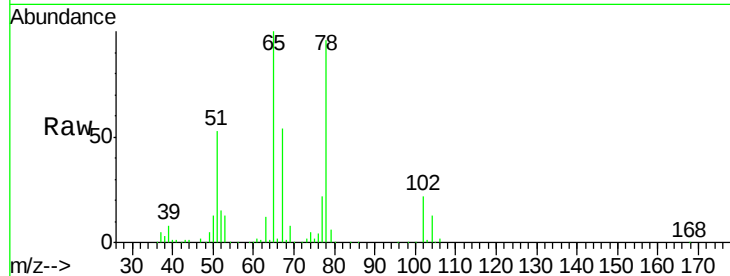
#33
 1,2-Dichloroethane-d4
 Concen: 19.001 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBS01

Tot Ion: 65 Resp: 347468
 Ion Ratio Lower Upper
 65 100
 67 54.3 0.0 111.2

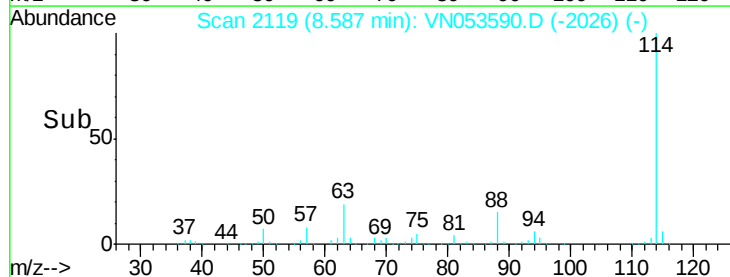
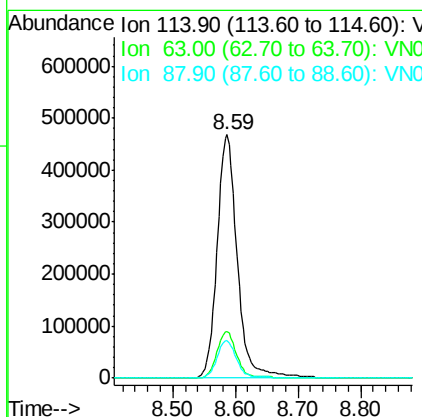
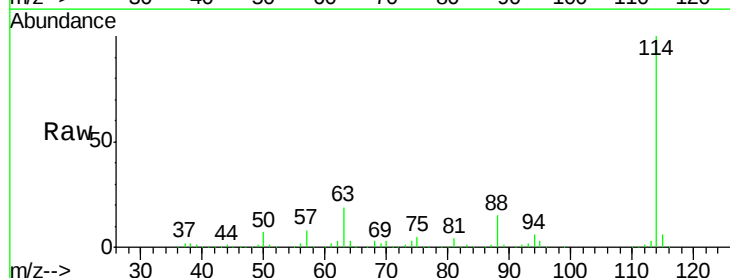
Manual Integrations
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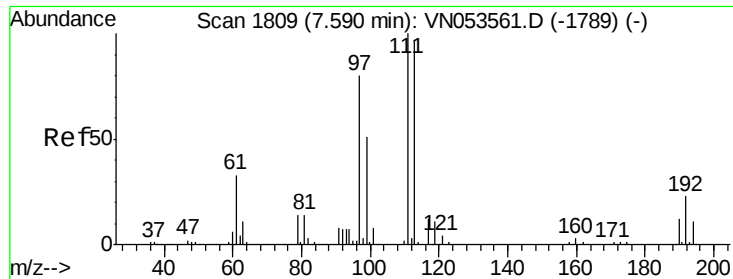
MMDadoda
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#34
 1,4-Difluorobenzene
 Concen: 50.000 ug/l
 RT: 8.59 min Scan# 2119
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Tgt Ion: 114 Resp: 1045956
 Ion Ratio Lower Upper
 114 100
 63 19.2 0.0 38.6
 88 15.3 0.0 30.4





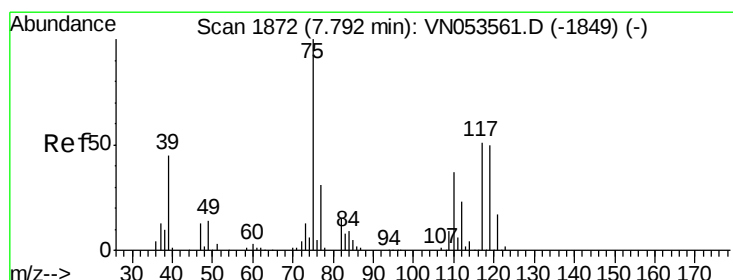
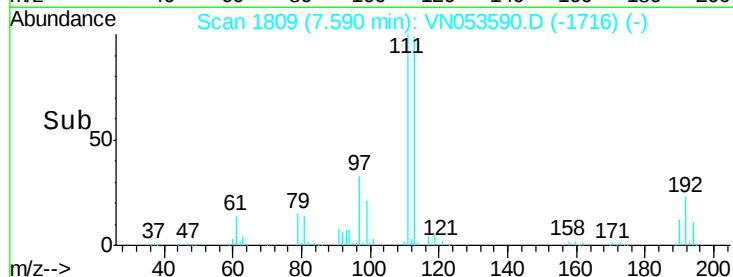
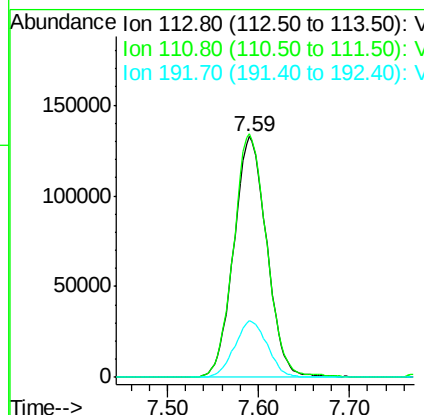
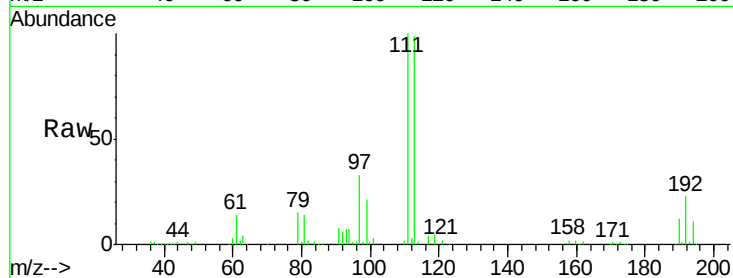
#35
 Dibromofluoromethane
 Concen: 50.000 ug/l
 RT: 7.59 min Scan# 1809
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBS01

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	102.0	81.1	121.7	
192	23.3	18.2	27.2	

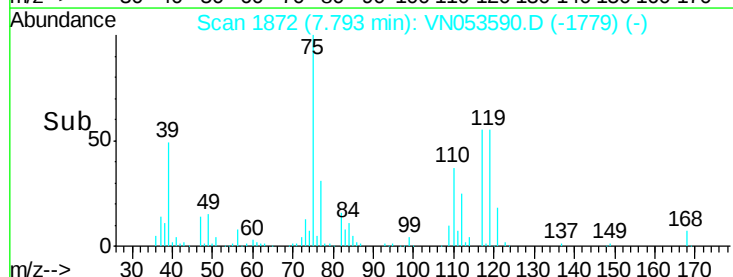
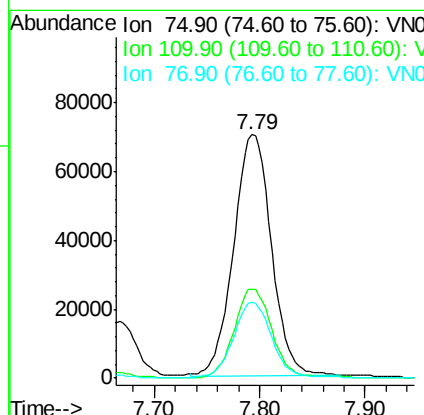
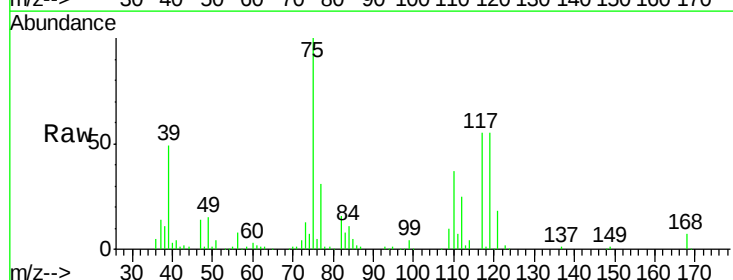
Manual Integrations
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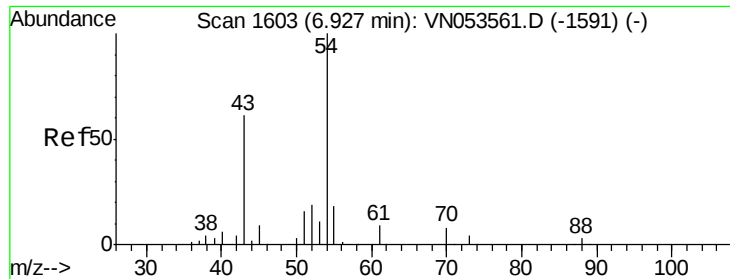
MMDadoda
 2/5/2019 9:53:51 AM



#36
 1,1-Dichloropropene
 Concen: 18.475 ug/l
 RT: 7.79 min Scan# 1872
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.5	18.1	54.3	
77	32.1	25.1	37.7	





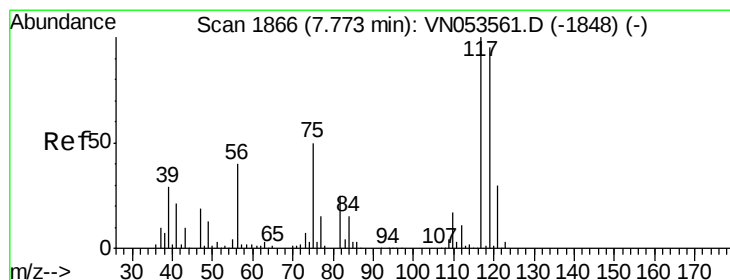
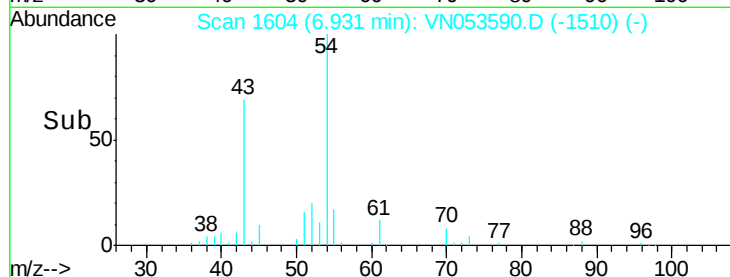
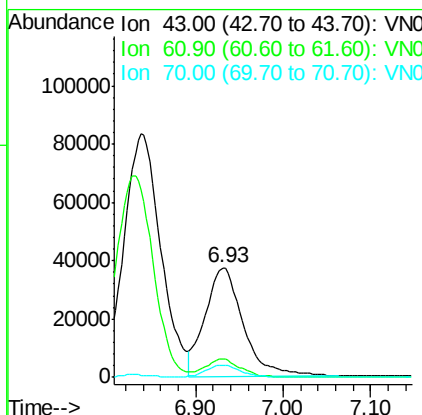
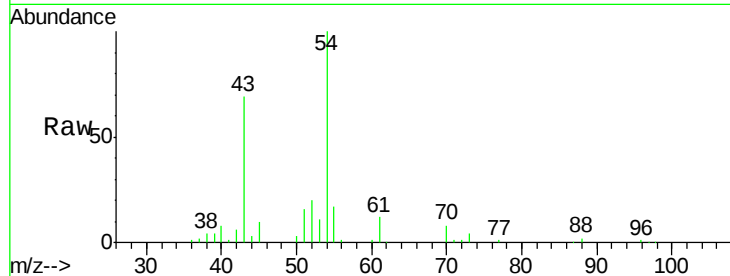
#37
Ethyl Acetate
Concen: 21.483 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

Tot Ion	Ratio	Lower	Upper
43	100		
61	14.9	11.8	17.6
70	10.5	8.6	12.8

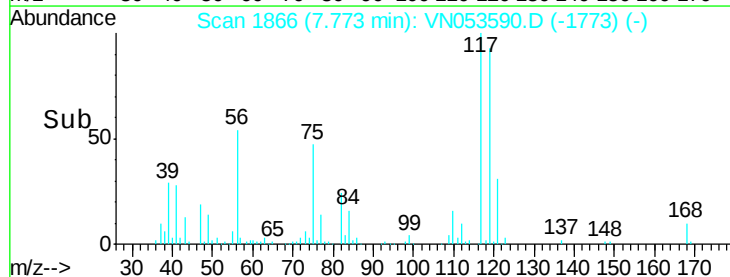
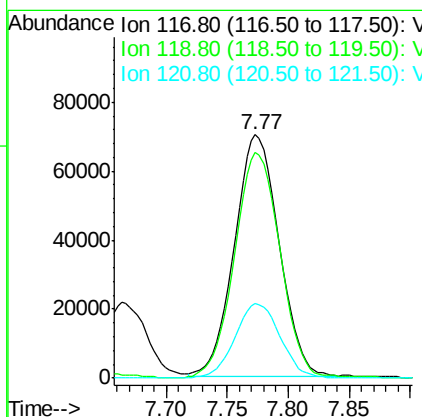
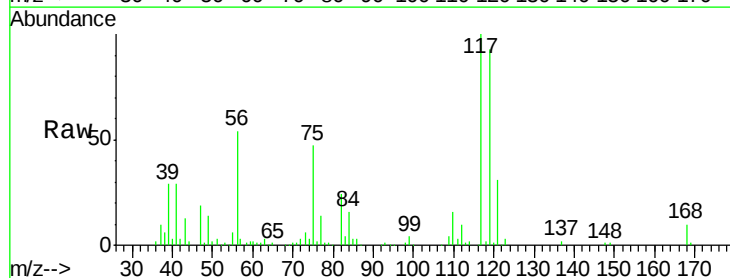
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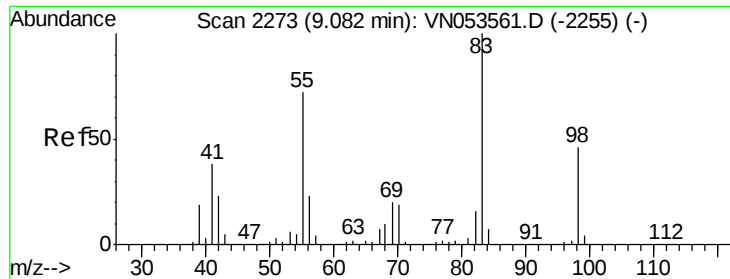
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#38
Carbon Tetrachloride
Concen: 18.672 ug/l
RT: 7.77 min Scan# 1866
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Lower	Upper
117	100		
119	93.0	77.2	115.8
121	30.8	24.6	37.0





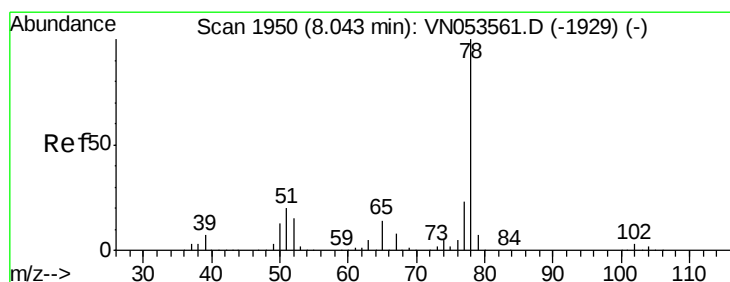
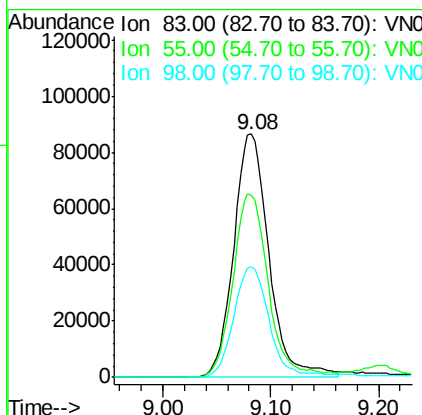
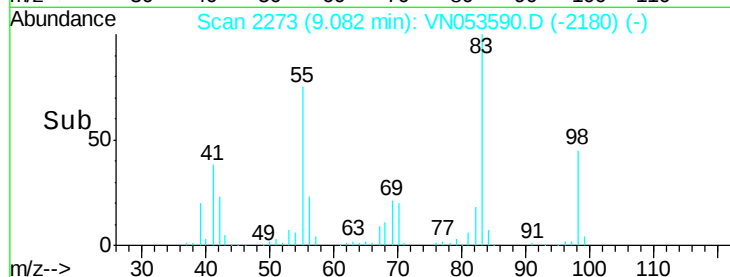
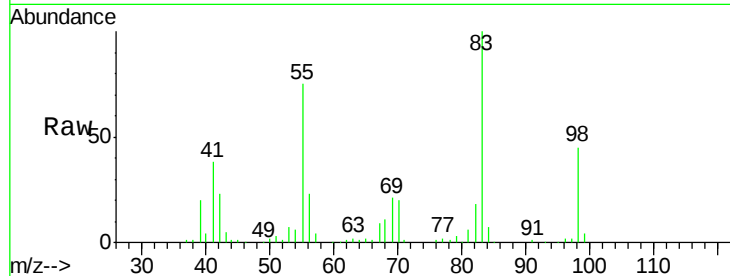
#39
Methvlcvclohexane
Concen: 17.625 ug/l
RT: 9.08 min Scan# 2273
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

Tot Ion	Ratio	Resp	Lower	Upper
83	100	197160		
55	74.9		60.1	90.1
98	45.5		36.6	55.0

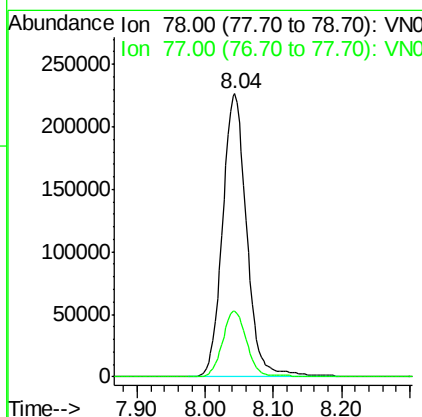
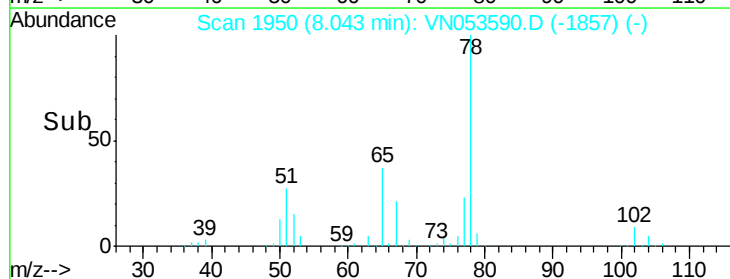
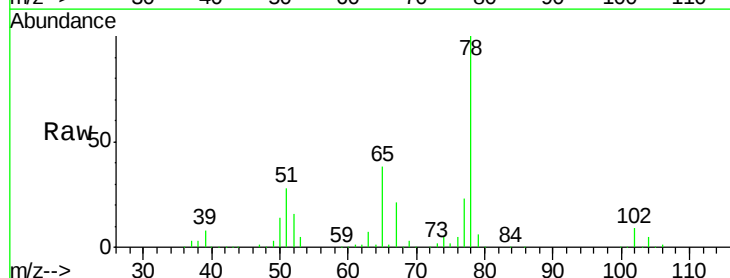
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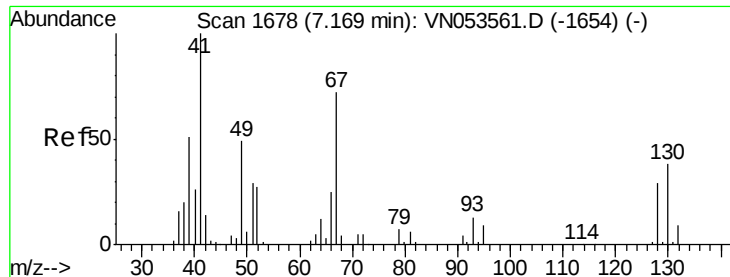
MMDadoda
2/5/2019 9:53:51 AM



#40
Benzene
Concen: 19.184 ug/l
RT: 8.04 min Scan# 1950
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Resp	Lower	Upper
78	100	557774		
77	23.2		18.8	28.2





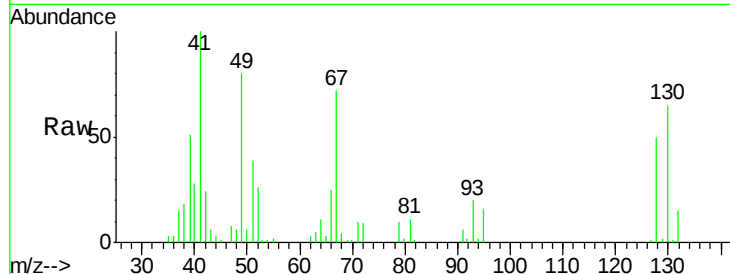
#41
Methacrylonitrile
Concen: 21.464 ug/l
RT: 7.18 min Scan# 1680
Delta R.T. 0.01 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

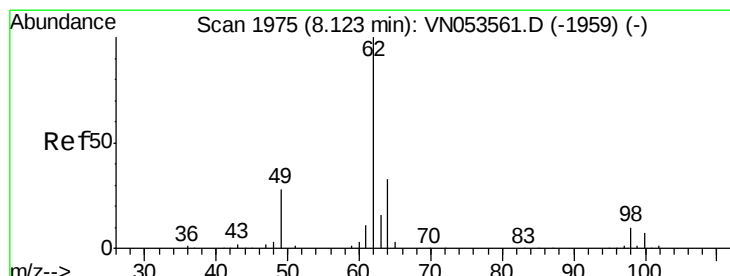
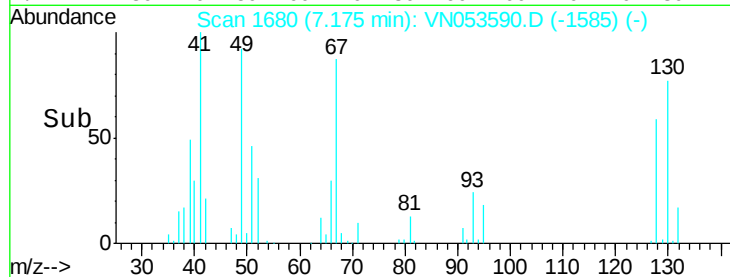
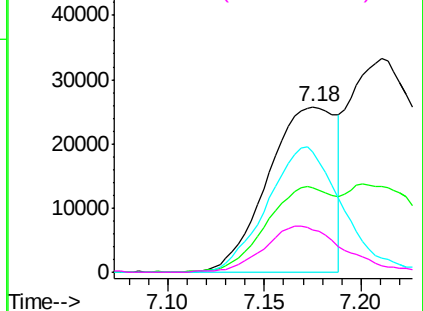
Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	51.3	46.8	70.2	
67	84.5	63.0	94.6	
52	32.5	23.8	35.8	

Manual Integrations
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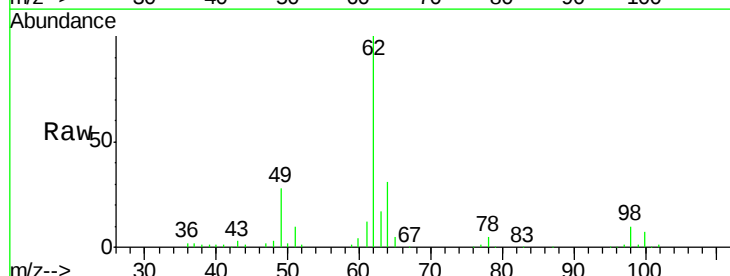


Abundance Ion 41.00 (40.70 to 41.70): VNC
Ion 39.00 (38.70 to 39.70): VNC
Ion 67.00 (66.70 to 67.70): VNC
Ion 52.00 (51.70 to 52.70): VNC

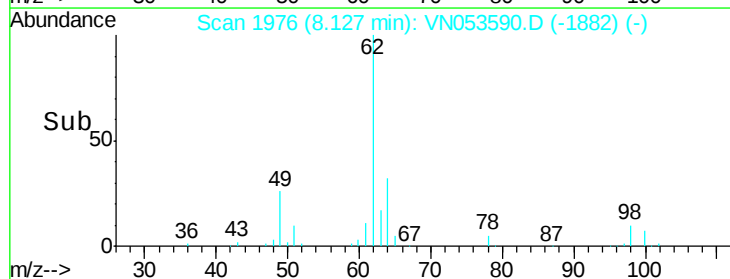
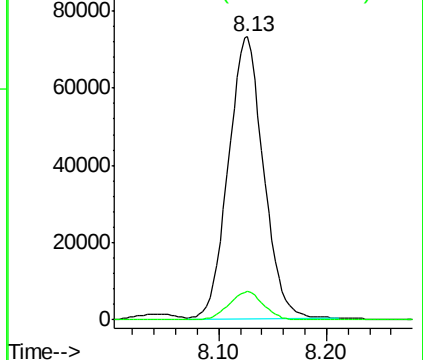


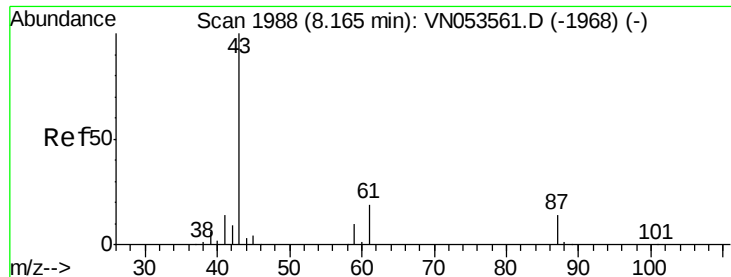
#42
1,2-Dichloroethane
Concen: 19.204 ug/l
RT: 8.13 min Scan# 1976
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.9	0.0	19.6	



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





#43

Isopropyl Acetate

Concen: 18.027 ug/l

RT: 8.16 min Scan# 1987

Delta R.T. -0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

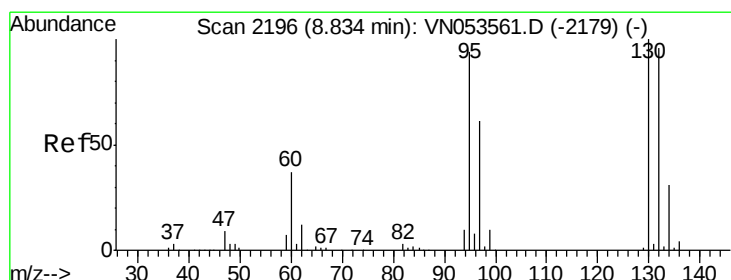
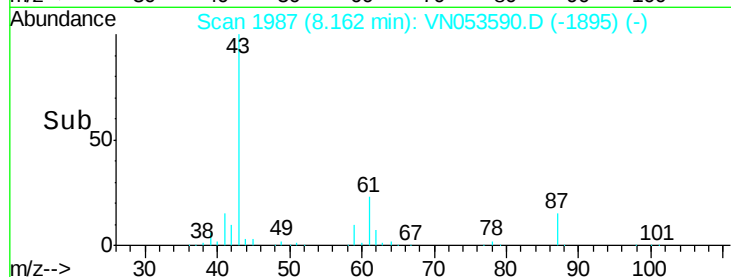
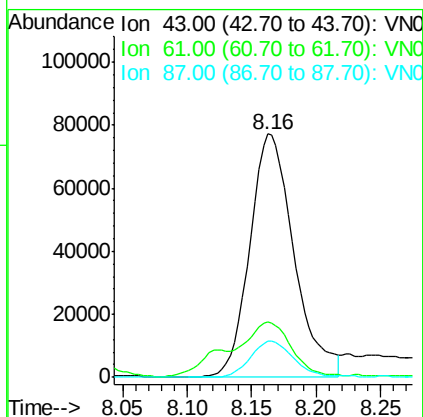
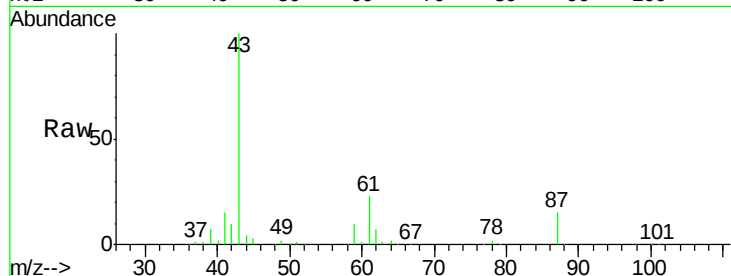
ClientSampleId :

VN0204MBS01

Tot Ion:	43	Resp:	183328
Ion Ratio		Lower	Upper
43	100		
61	21.7	23.9	35.9#
87	14.8	11.0	16.6

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2/5/2019 9:53:51 AM



#44

Trichloroethene

Concen: 18.815 ug/l

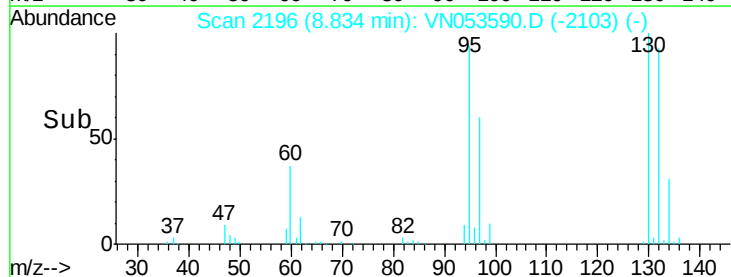
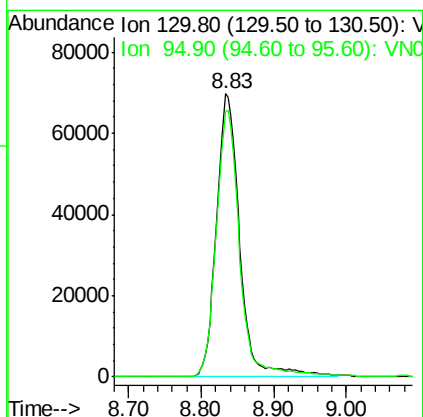
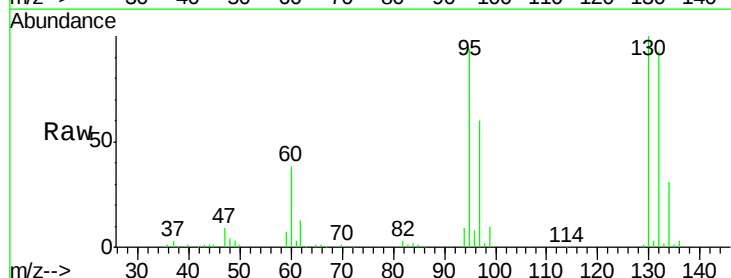
RT: 8.83 min Scan# 2196

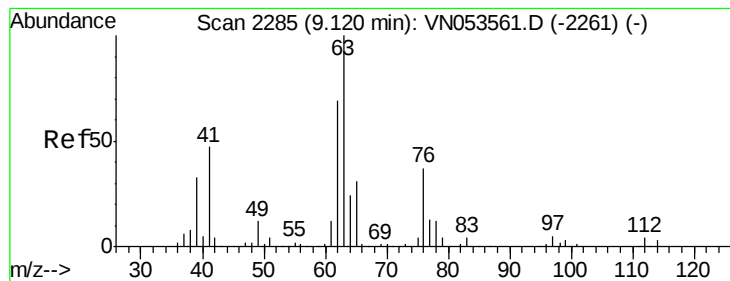
Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Tgt Ion:	130	Resp:	155744
Ion Ratio		Lower	Upper
130	100		
95	94.0	0.0	191.4





#45

1,2-Dichloropropane

Concen: 19.385 ug/l

RT: 9.12 min Scan# 2285

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

ClientSampleId :

VN0204MBS01

Tot Ion: 63 Resp: 144160

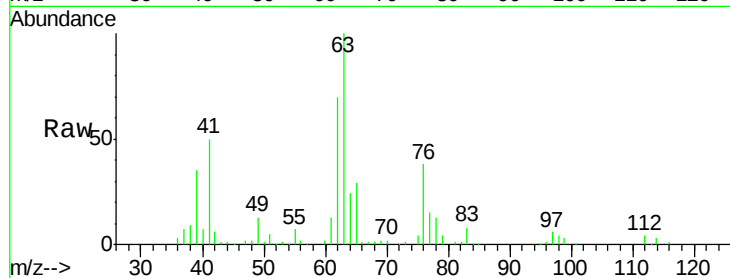
Ion Ratio Lower Upper

63 100

65 29.3 25.0 37.4

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Abundance Ion 62.90 (62.60 to 63.60): VN053590.D (-2192) (-)

Ion 64.90 (64.60 to 65.60): VN053590.D (-2192) (-)

9.12

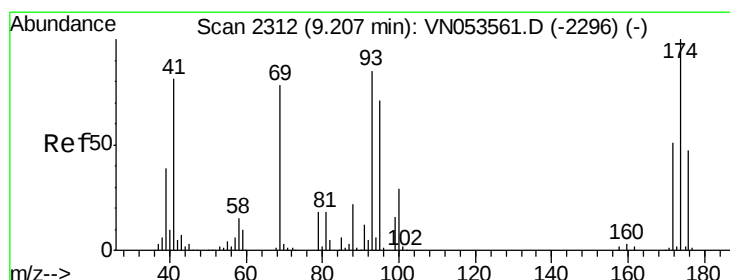
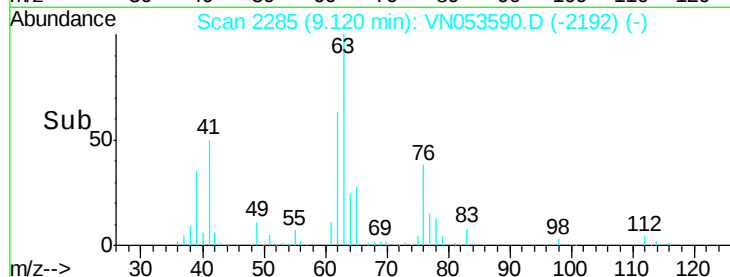
60000

40000

20000

0

Time-->



#46

Dibromomethane

Concen: 19.462 ug/l

RT: 9.21 min Scan# 2313

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

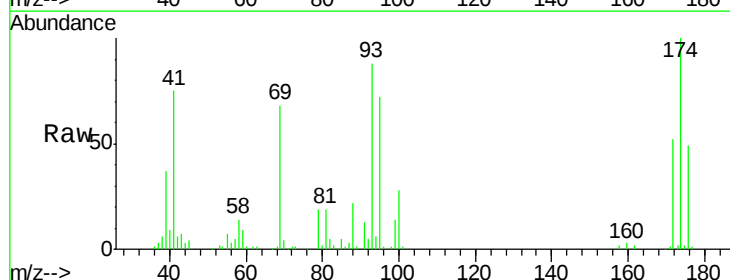
Tgt Ion: 93 Resp: 87246

Ion Ratio Lower Upper

93 100

95 83.0 67.3 100.9

174 116.2 91.0 136.4



Abundance Ion 92.80 (92.50 to 93.50): VN053590.D (-2219) (-)

Ion 94.80 (94.50 to 95.50): VN053590.D (-2219) (-)

Ion 173.70 (173.40 to 174.40): VN053590.D (-2219) (-)

9.21

60000

50000

40000

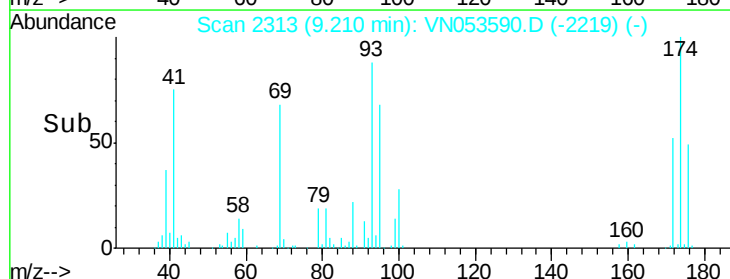
30000

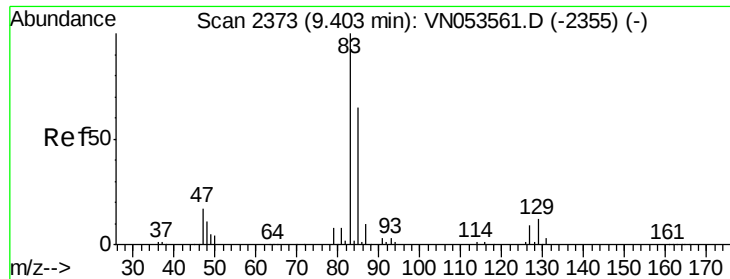
20000

10000

0

Time-->





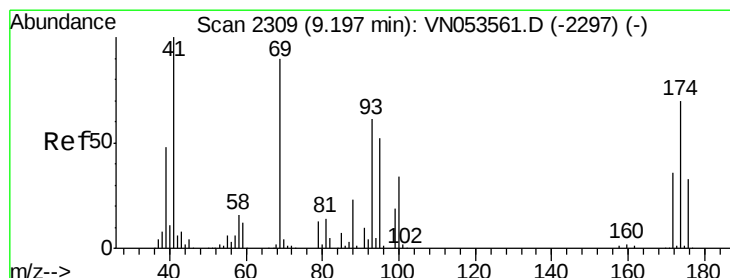
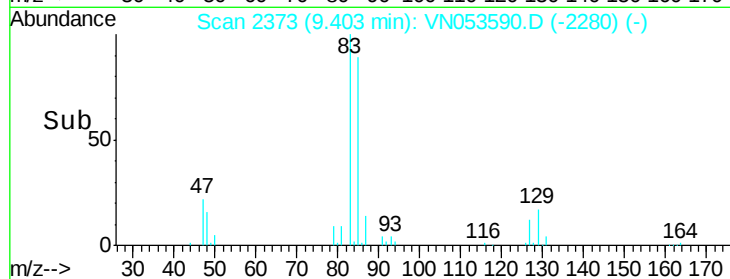
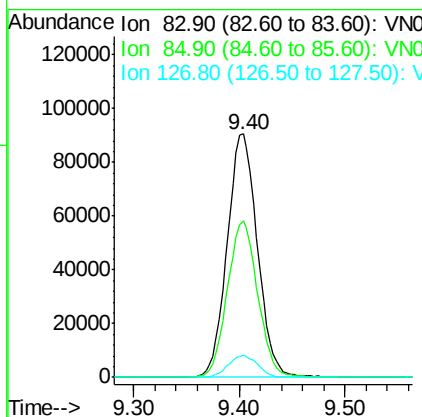
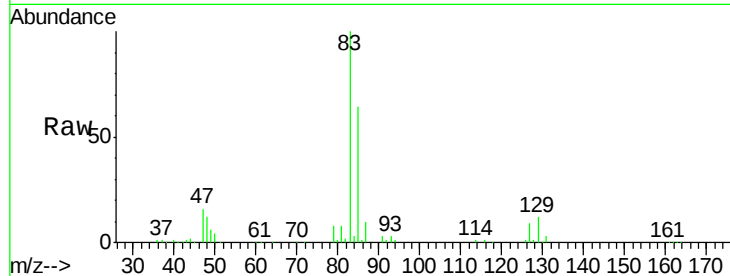
#47
Bromodichloromethane
Concen: 19.260 ug/l
RT: 9.40 min Scan# 2373
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

Tot Ion	83	Resp	179522
Ion Ratio	100	Lower	Upper
83	100		
85	64.2	51.0	76.6
127	8.9	7.0	10.6

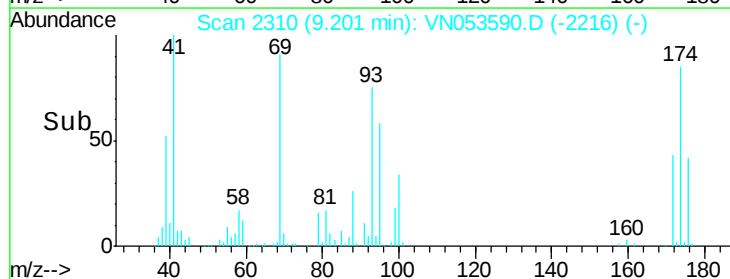
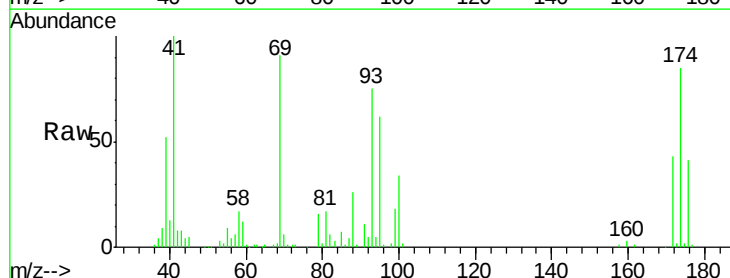
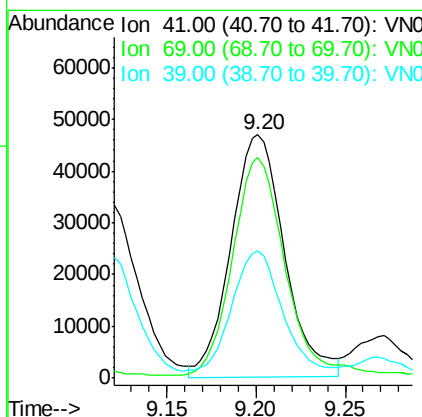
Manual Integrations
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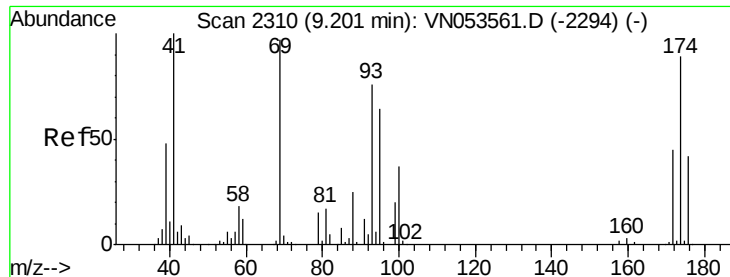
MMDadoda
2/5/2019 9:53:51 AM



#48
Methyl methacrylate
Concen: 20.223 ug/l
RT: 9.20 min Scan# 2310
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	41	Resp	98171
Ion Ratio	100	Lower	Upper
41	100		
69	88.8	73.8	110.6
39	50.5	40.0	60.0





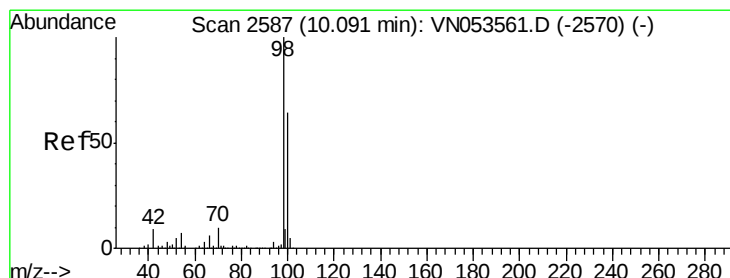
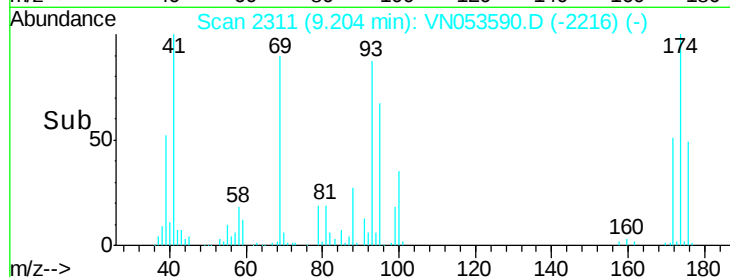
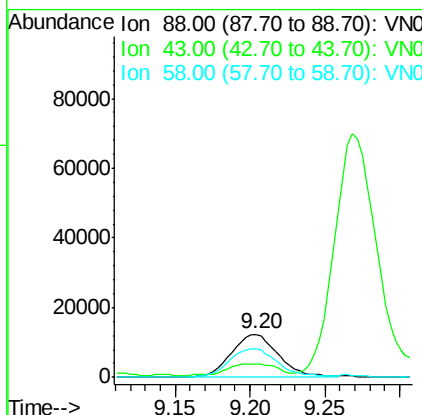
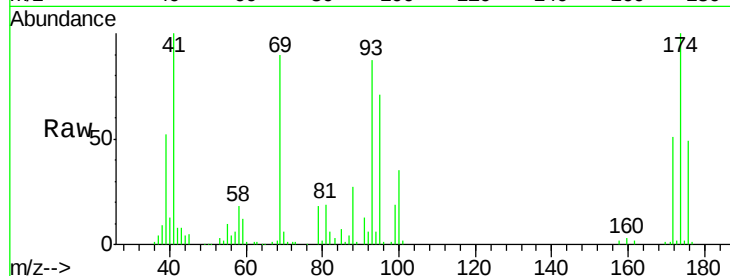
#49
1,4-Dioxane
Concen: 408.130 ug/l
RT: 9.20 min Scan# 2311
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

Tot Ion	88	Resp	27014
Ion	Ratio	Lower	Upper
88	100		
43	27.4	27.8	41.6#
58	69.4	56.5	84.7

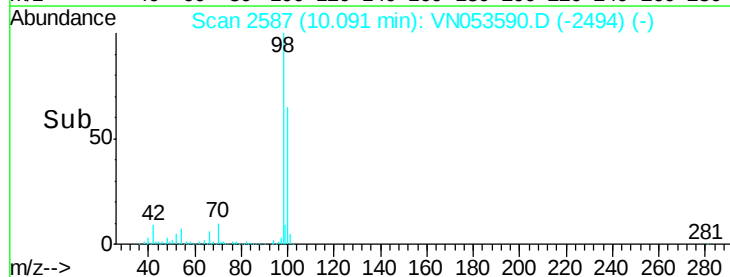
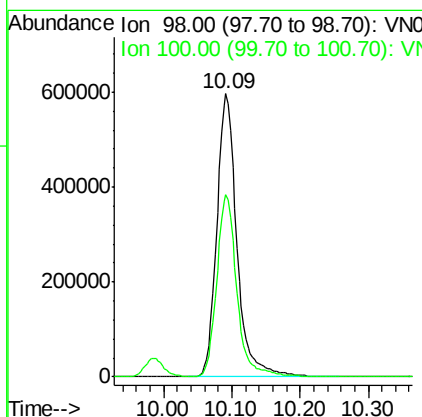
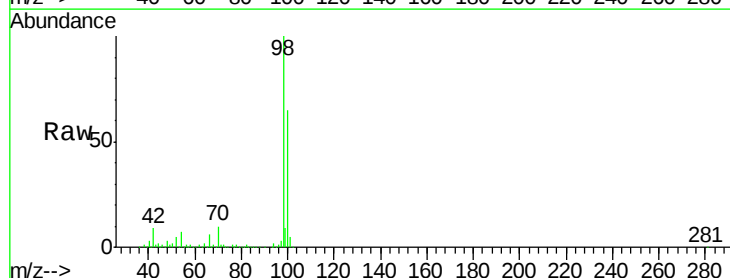
Manual Integrations
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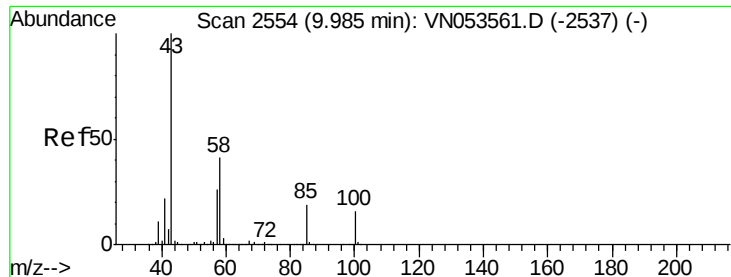
MMDadoda
2/5/2019 9:53:51 AM



#50
Toluene-d8
Concen: 408.130 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	98	Resp	1218383
Ion	Ratio	Lower	Upper
98	100		
100	64.6	51.4	77.0





#51

4-Methyl-2-Pentanone

Concen: 101.500 ug/l

RT: 9.99 min Scan# 2554

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

ClientSampleId :

VN0204MBS01

Tot Ion: 43 Resp: 507235

Ion Ratio Lower Upper

43 100

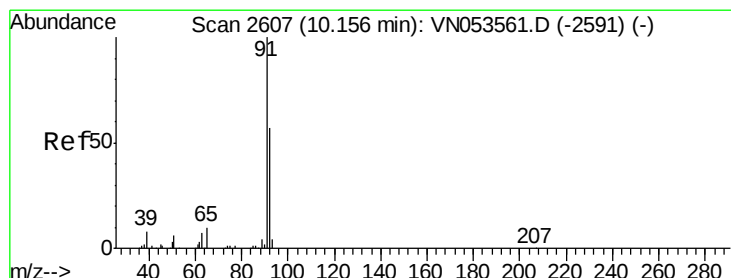
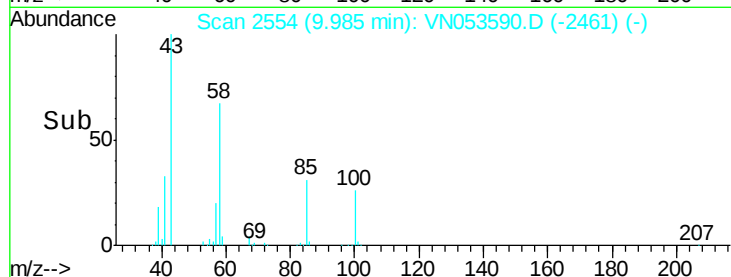
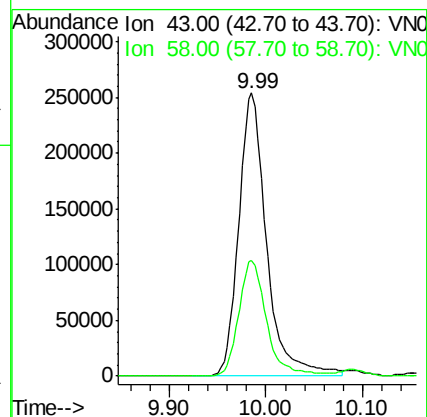
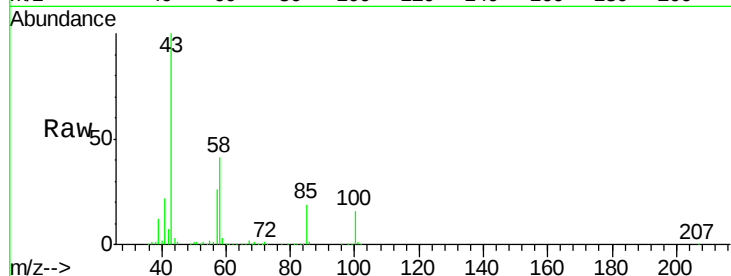
58 40.8 32.8 49.2

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2/5/2019 9:53:51 AM



#52

Toluene

Concen: 19.365 ug/l

RT: 10.16 min Scan# 2607

Delta R.T. 0.00 min

Lab File: VN053590.D

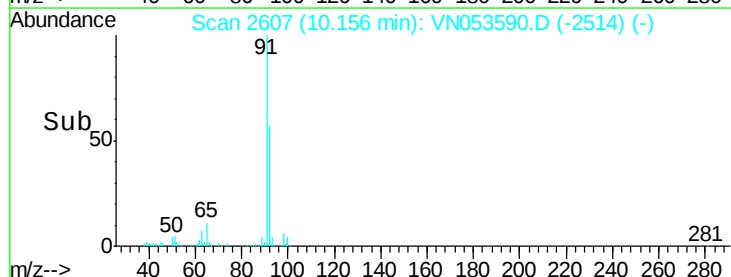
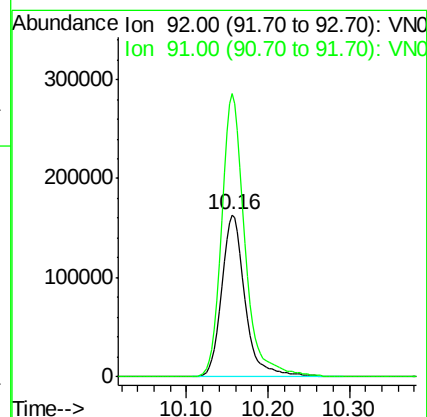
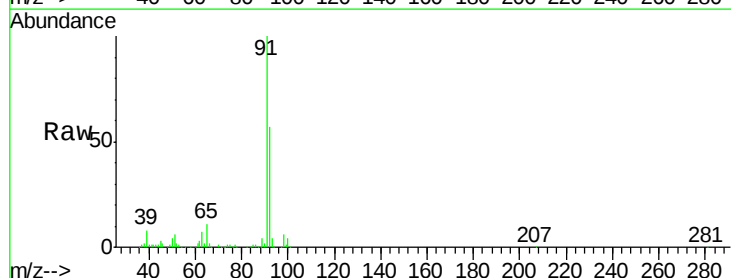
Acq: 4 Feb 2019 12:23

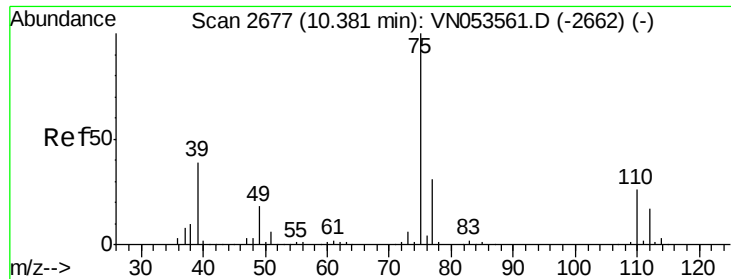
Tgt Ion: 92 Resp: 334167

Ion Ratio Lower Upper

92 100

91 173.0 139.9 209.9





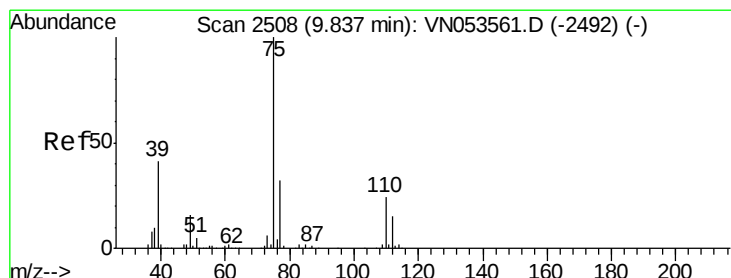
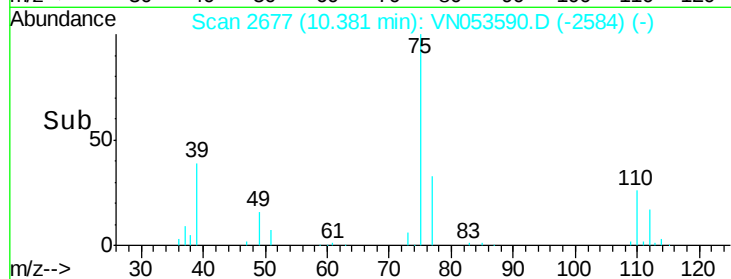
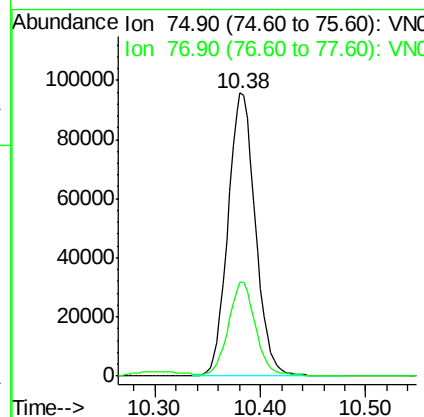
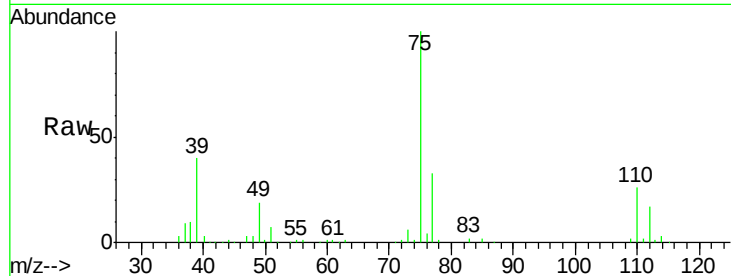
#53
t-1,3-Dichloropropene
Concen: 18.406 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampled :
VN0204MBS01

Tot Ion	Ratio	Resp	Lower	Upper
75	100	171797		
77	32.9	25.5	38.3	

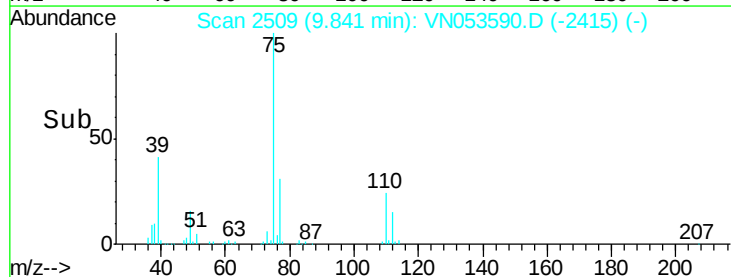
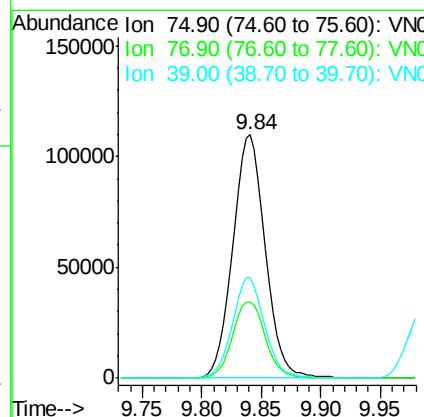
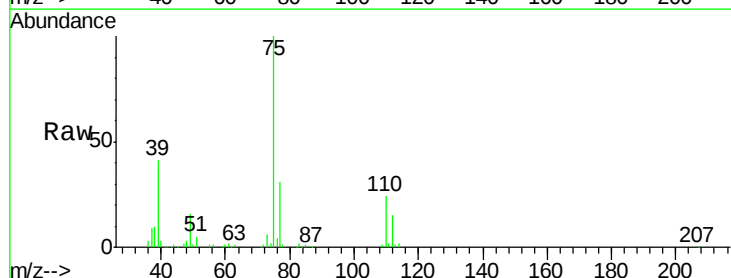
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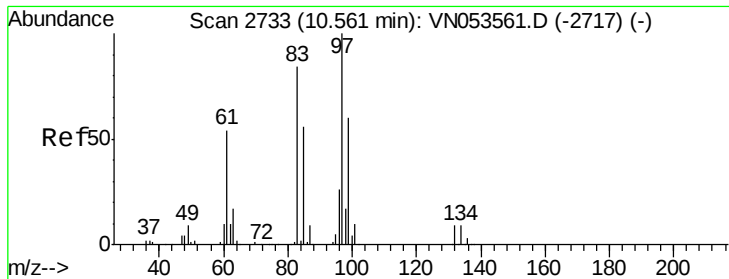
MMDadoda
2/5/2019 9:53:51 AM



#54
cis-1,3-Dichloropropene
Concen: 18.771 ug/l
RT: 9.84 min Scan# 2509
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	207615		
77	31.3	25.8	38.6	
39	41.2	33.4	50.0	





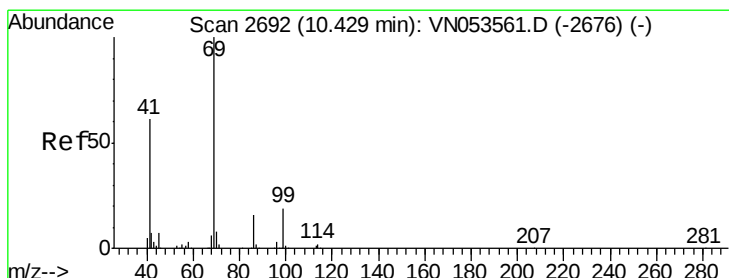
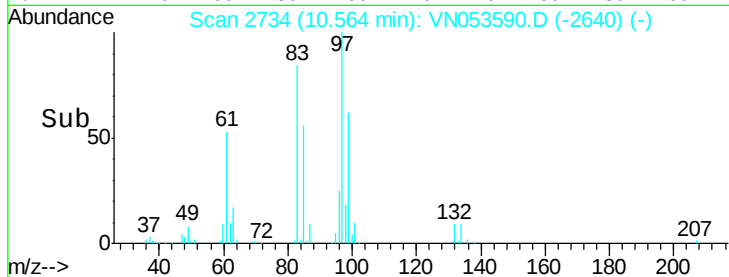
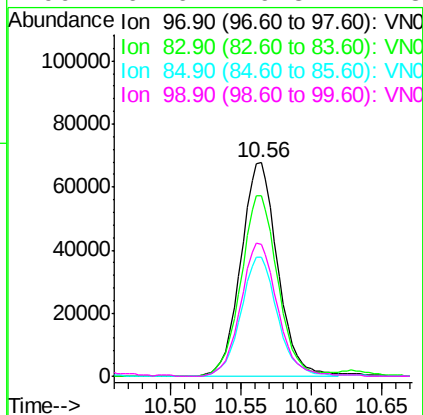
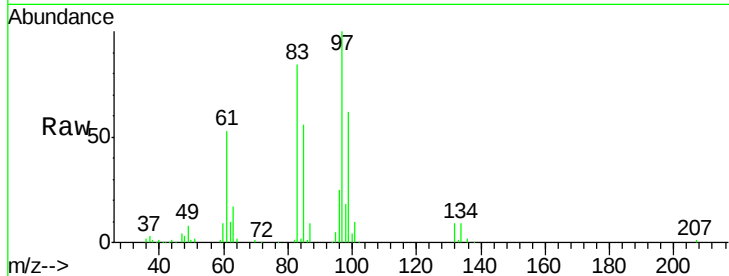
#55
 1,1,2-Trichloroethane
 Concen: 19.895 ug/l
 RT: 10.56 min Scan# 2734
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Instrument :
 MSVOA_N
 ClientSampled :
 VN0204MBS01

Tot Ion:	97	Resp:	123710
Ion	Ratio	Lower	Upper
97	100		
83	84.3	70.1	105.1
85	55.6	45.4	68.0
99	61.6	49.8	74.8

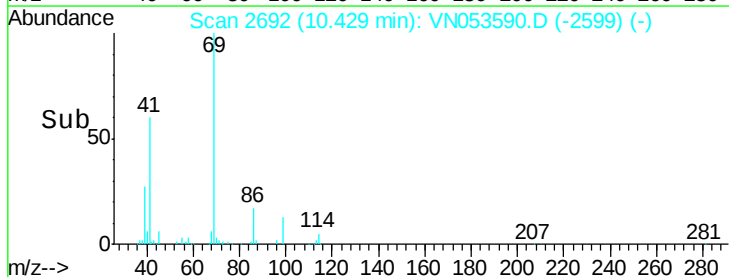
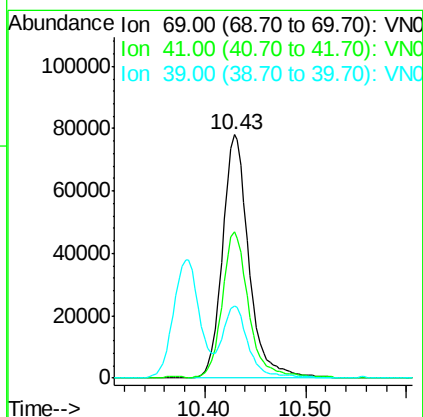
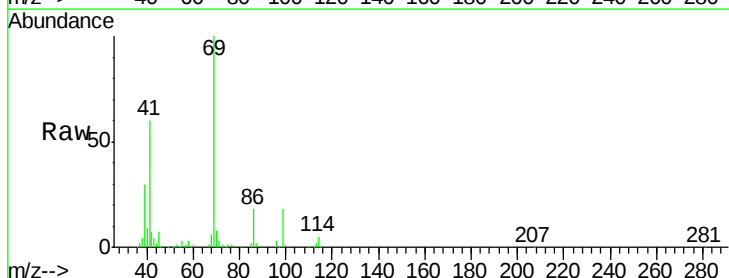
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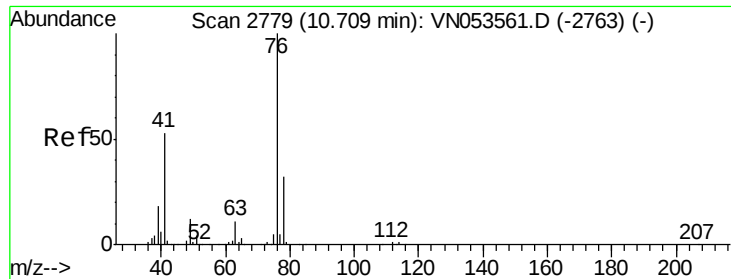
MMDadoda
 2/5/2019 9:53:51 AM



#56
 Ethyl methacrylate
 Concen: 19.390 ug/l
 RT: 10.43 min Scan# 2692
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Tgt Ion:	69	Resp:	142630
Ion	Ratio	Lower	Upper
69	100		
41	59.4	49.4	74.0
39	28.3	23.3	34.9





#57

1,3-Dichloropropane

Concen: 19.472 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

ClientSampled :

VN0204MBS01

Tot Ion: 76 Resp: 206930

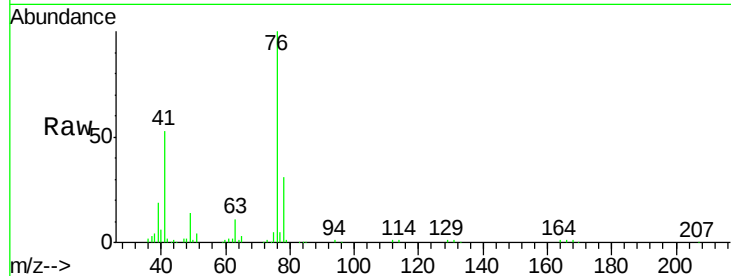
Ion Ratio Lower Upper

76 100

78 31.9 25.6 38.4

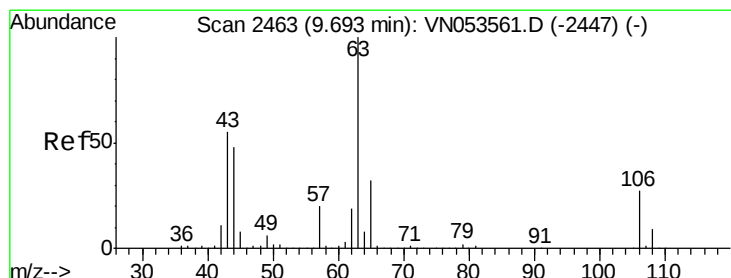
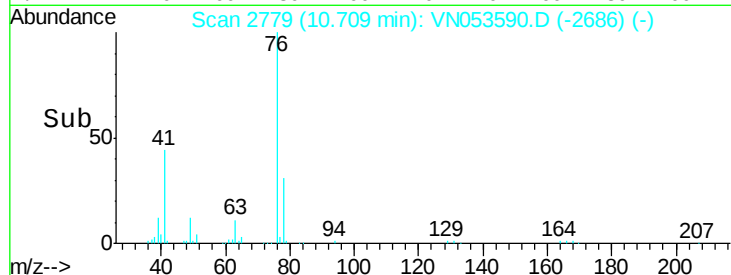
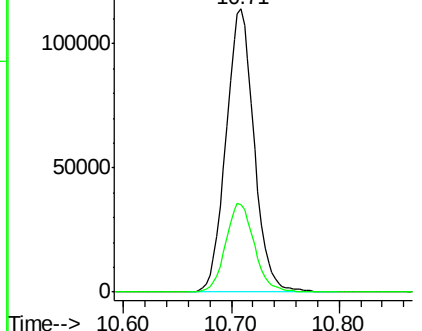
Manual Integrations
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MMDadoda
2/5/2019 9:53:51 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0



#58

2-Chloroethyl Vinyl ether

Concen: 95.179 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN053590.D

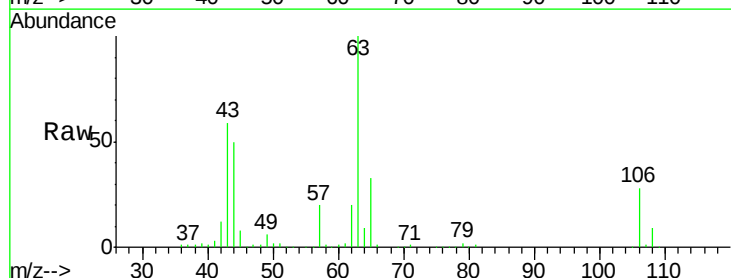
Acq: 4 Feb 2019 12:23

Tgt Ion: 63 Resp: 410833

Ion Ratio Lower Upper

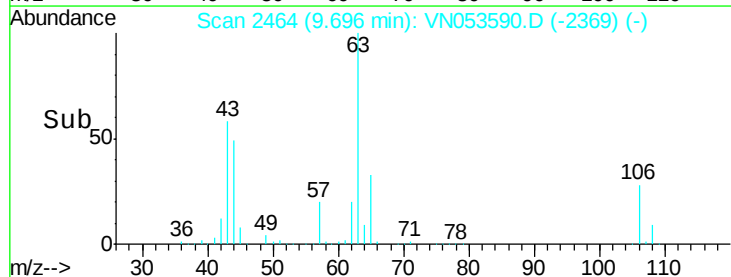
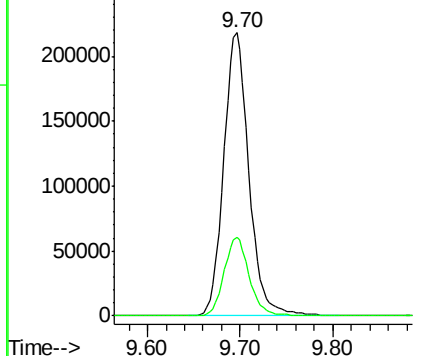
63 100

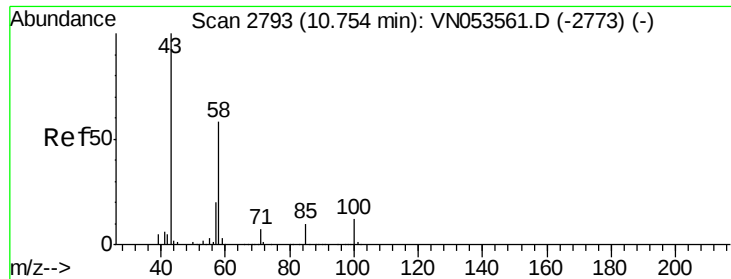
106 27.6 21.5 32.3



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V





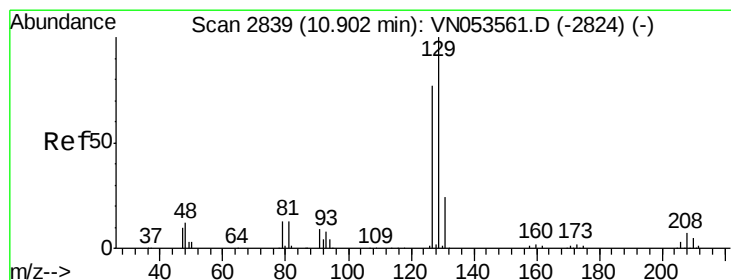
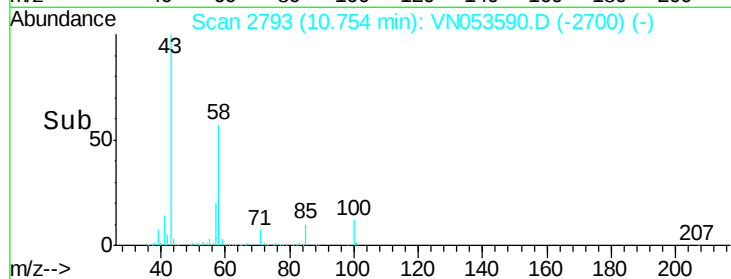
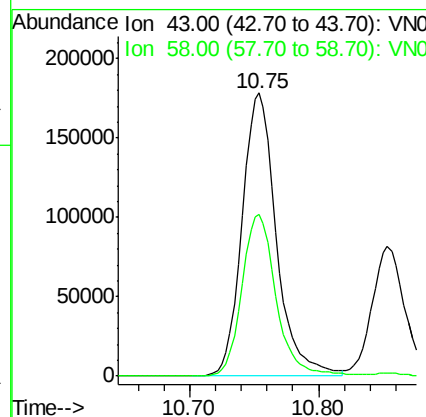
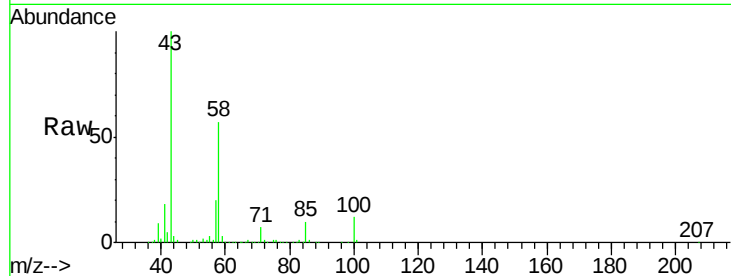
#59
2-Hexanone
Concen: 96.527 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

Tot Ion: 43 Resp: 327477
Ion Ratio Lower Upper
43 100
58 57.3 28.6 85.8

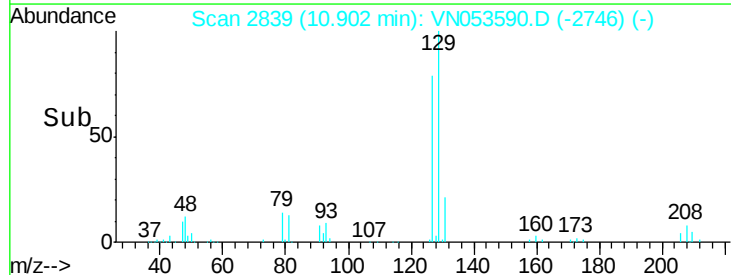
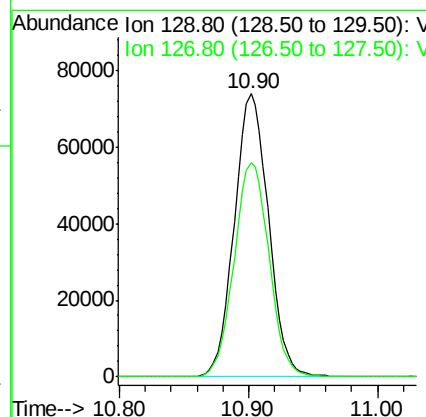
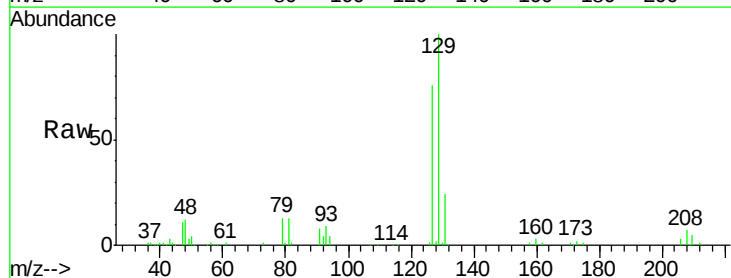
Manual Integrations
APPROVED

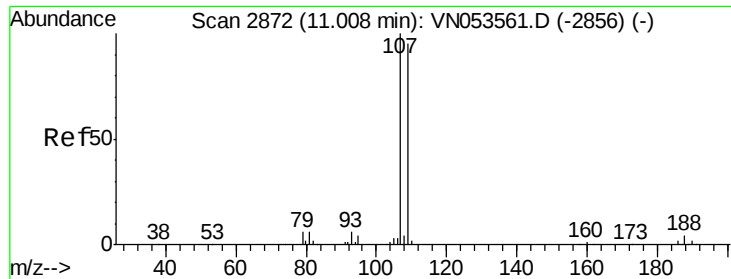
MMDadoda
2/5/2019 9:53:51 AM



#60
Dibromochloromethane
Concen: 19.411 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion: 129 Resp: 136110
Ion Ratio Lower Upper
129 100
127 77.3 38.6 115.8





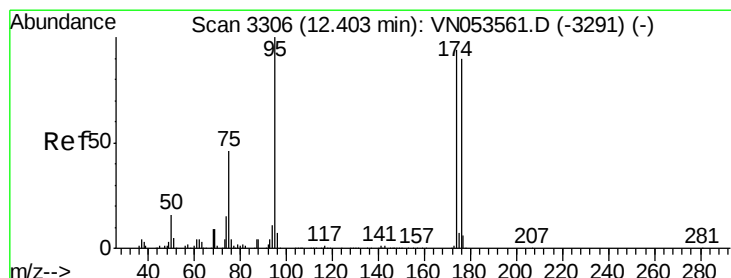
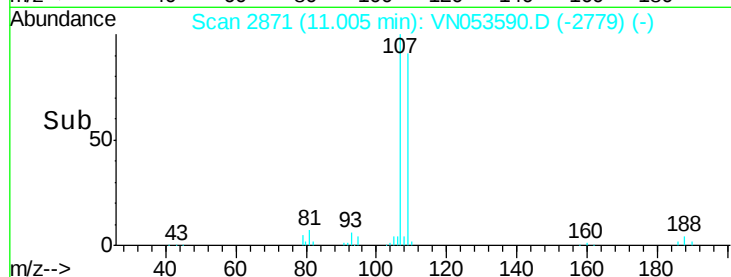
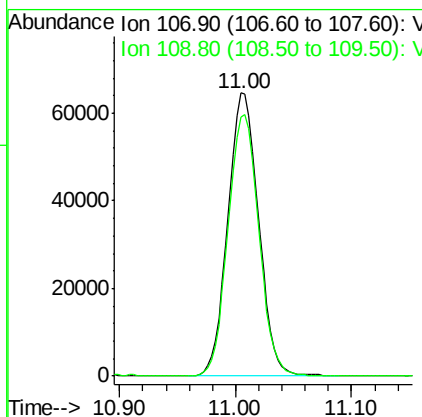
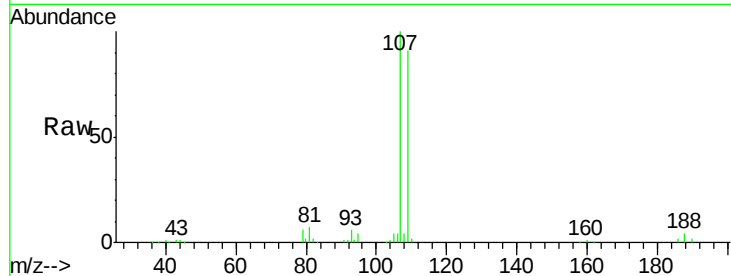
#61
 1,2-Dibromoethane
 Concen: 19.234 ug/l
 RT: 11.00 min Scan# 2871
 Delta R.T. -0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBS01

Tot Ion: 107 Resp: 118376
 Ion Ratio Lower Upper
 107 100
 109 92.7 75.7 113.5

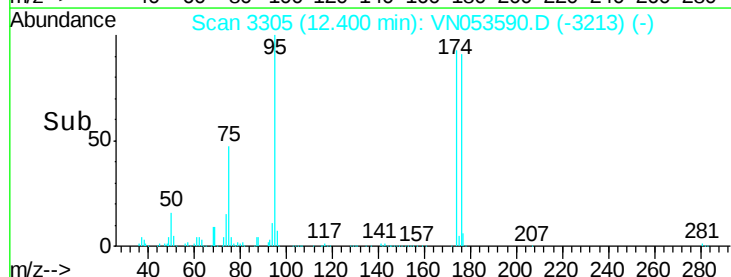
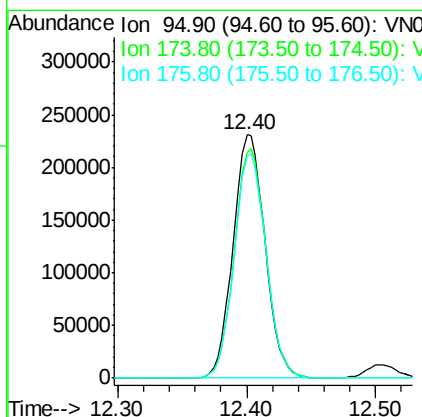
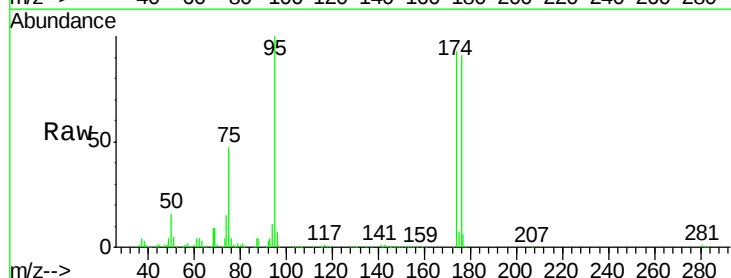
Manual Integrations
 APPROVED

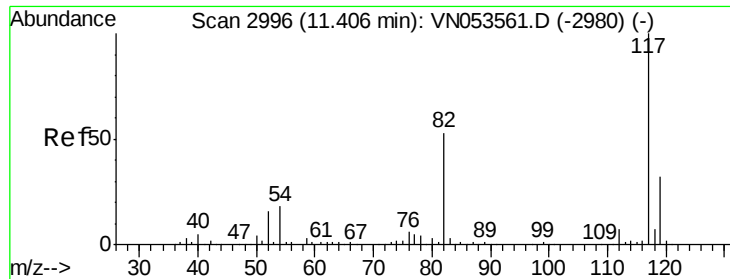
MMDadoda
 2/5/2019 9:53:51 AM



#62
 4-Bromofluorobenzene
 Concen: 19.234 ug/l
 RT: 12.40 min Scan# 3305
 Delta R.T. -0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Tgt Ion: 95 Resp: 397685
 Ion Ratio Lower Upper
 95 100
 174 94.0 0.0 183.2
 176 91.7 0.0 177.4





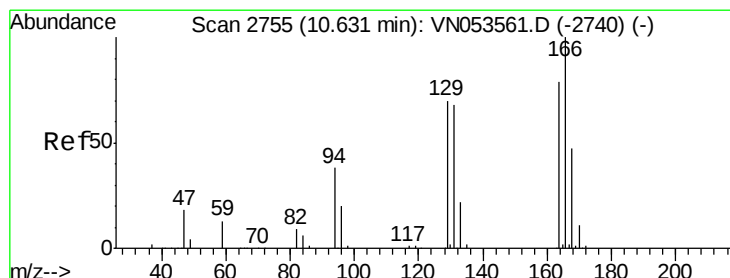
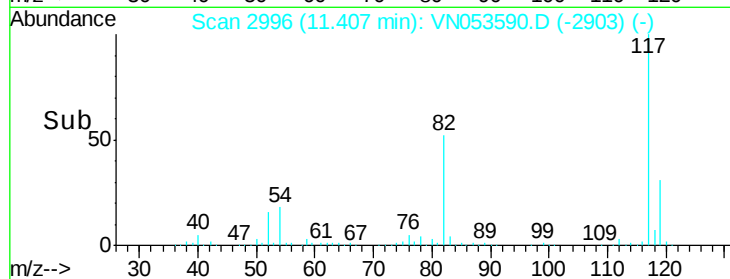
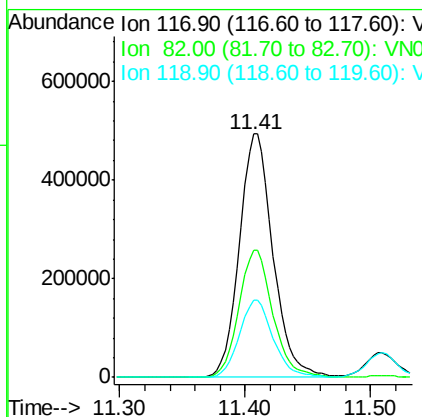
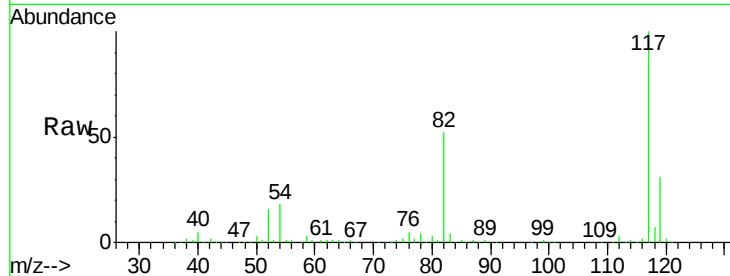
#63
Chlorobenzene-d5
Concen: 50.000 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

Tot Ion	Ratio	Lower	Upper
117	100		
82	52.3	42.9	64.3
119	31.5	26.0	39.0

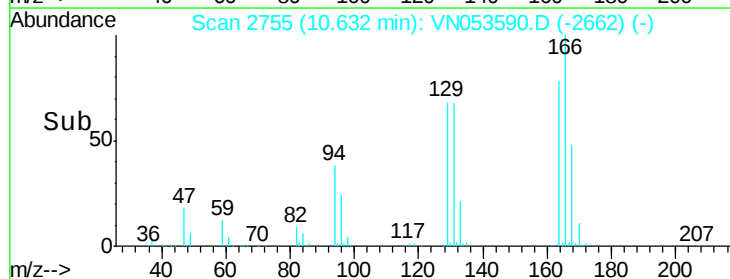
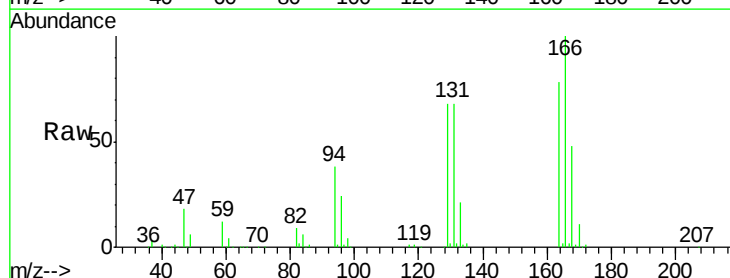
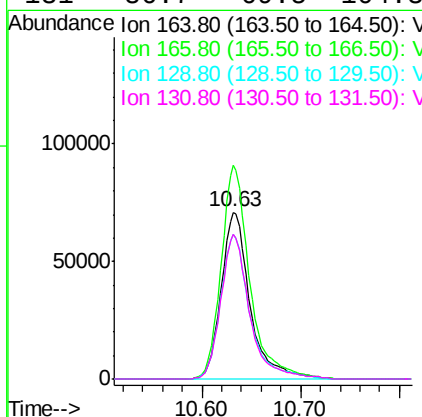
Manual Integrations
APPROVED

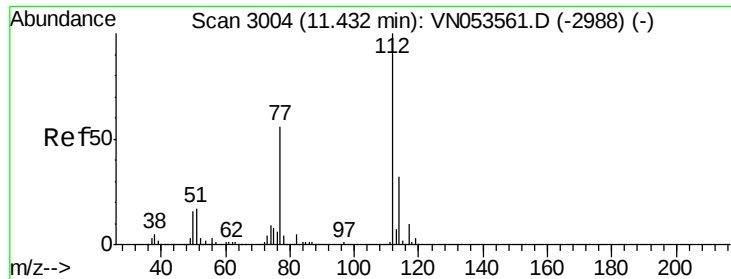
MMDadoda
2/5/2019 9:53:51 AM



#64
Tetrachloroethene
Concen: 18.428 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.0	102.2	153.4
129	86.9	72.6	109.0
131	86.7	69.5	104.3





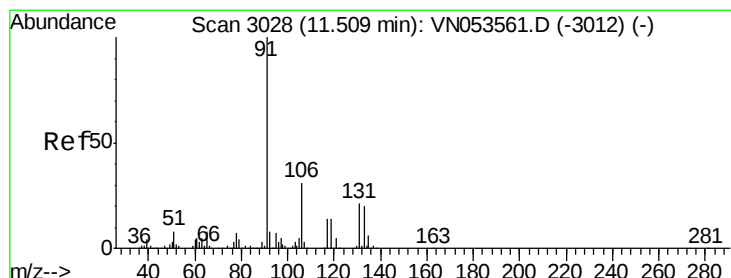
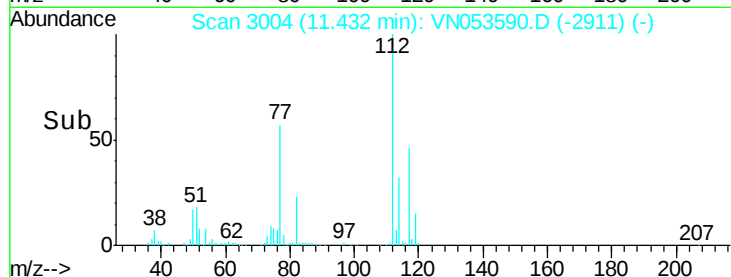
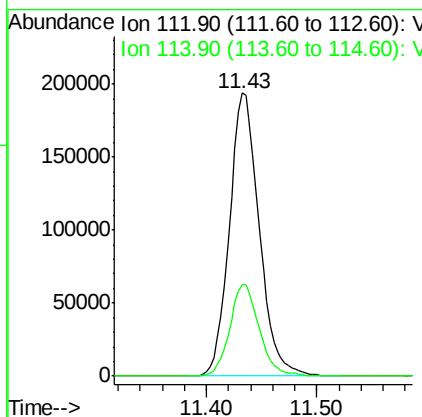
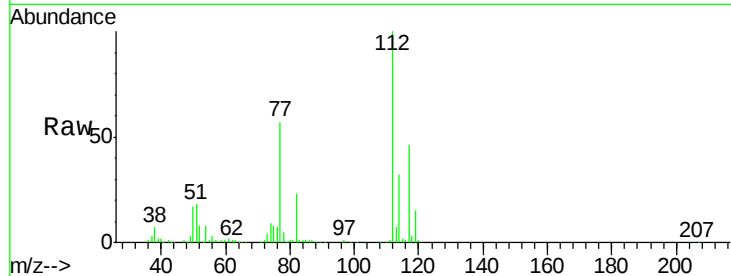
#65
Chlorobenzene
Concen: 18.546 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

Tot Ion:112 Resp: 362939
Ion Ratio Lower Upper
112 100
114 32.3 25.3 37.9

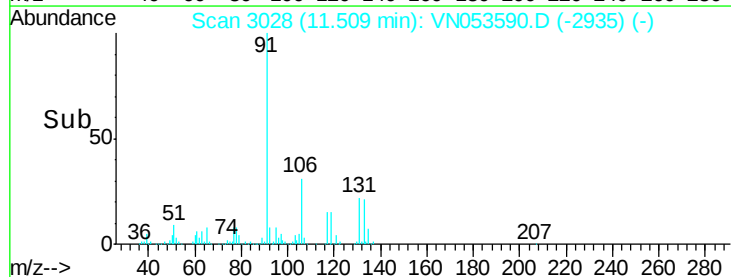
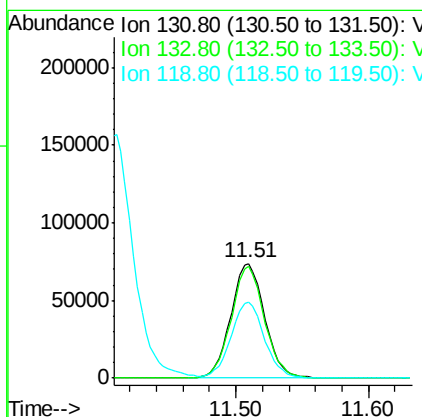
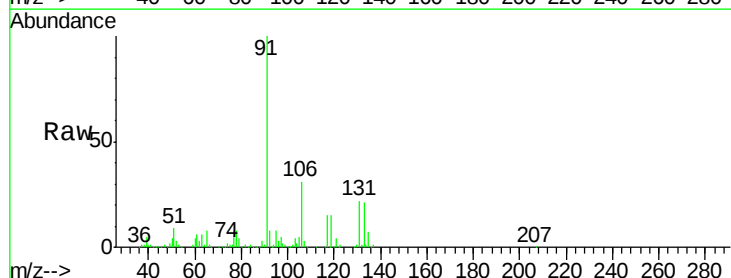
Manual Integrations
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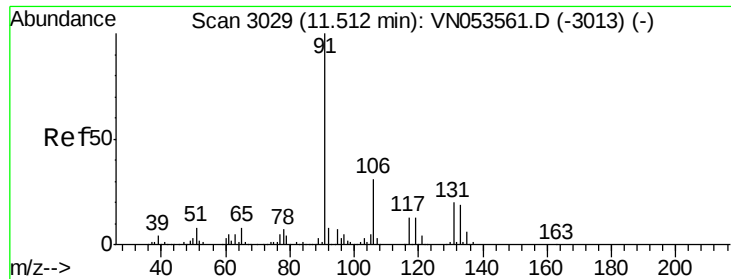
MMDadoda
2/5/2019 9:53:51 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 19.166 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion:131 Resp: 130993
Ion Ratio Lower Upper
131 100
133 95.6 48.0 144.0
119 65.7 33.5 100.5





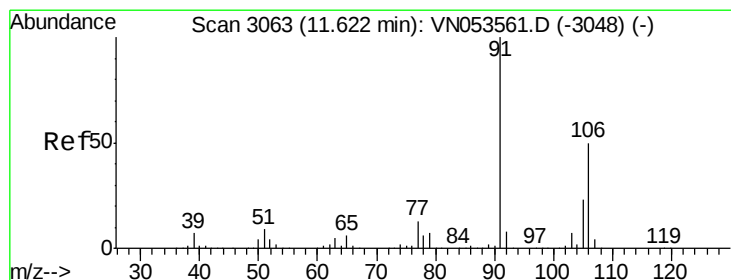
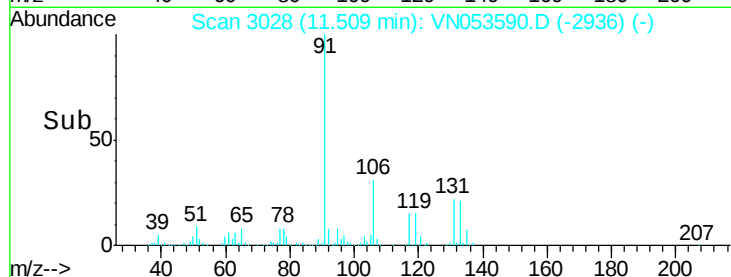
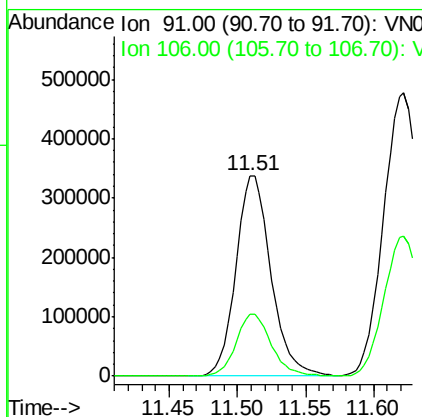
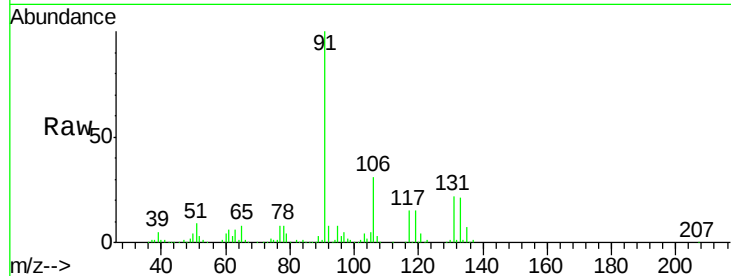
#67
Ethyl Benzene
Concen: 18.787 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampled :
VN0204MBS01

Tot Ion: 91 Resp: 603963
Ion Ratio Lower Upper
91 100
106 31.0 25.0 37.6

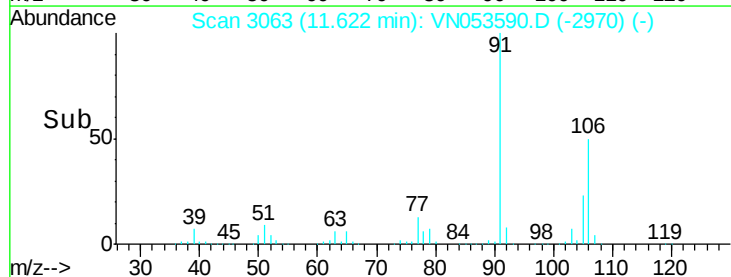
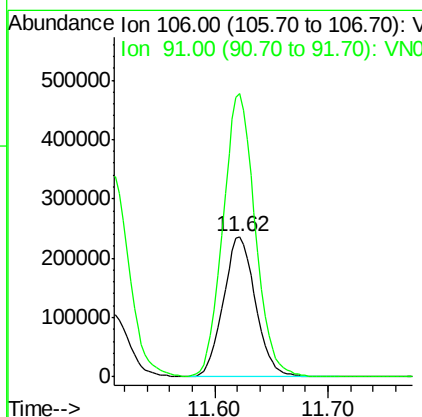
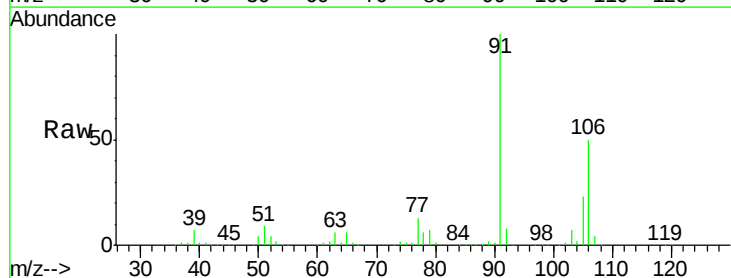
Manual Integrations
APPROVED

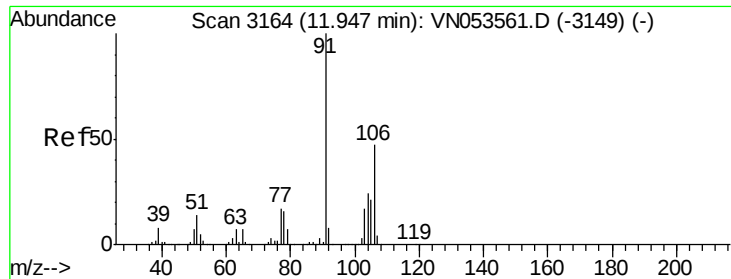
MMDadoda
2/5/2019 9:53:51 AM



#68
m/p-Xylenes
Concen: 38.104 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion: 106 Resp: 467514
Ion Ratio Lower Upper
106 100
91 201.7 161.4 242.2





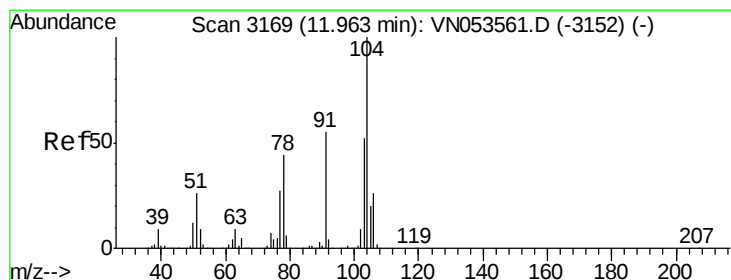
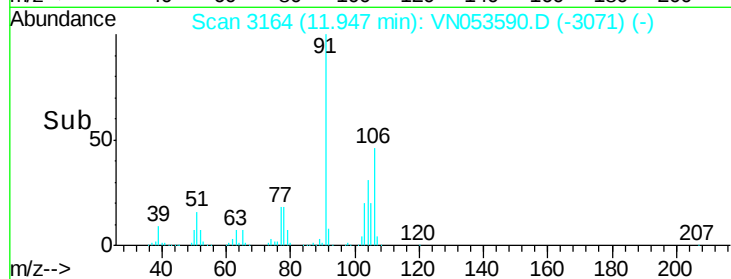
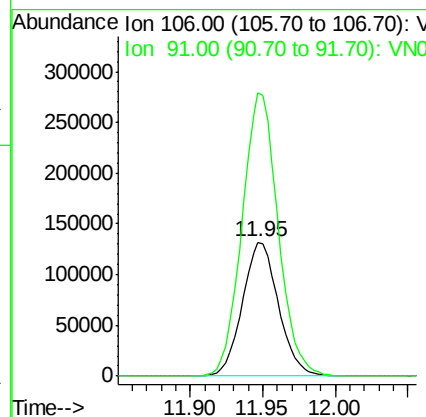
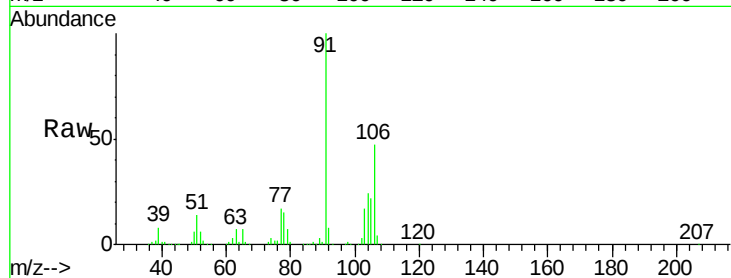
#69
o-Xylene
Concen: 19.196 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampled :
VN0204MBS01

Tot Ion	Ratio	Lower	Upper
106	100		
91	212.0	106.9	320.8

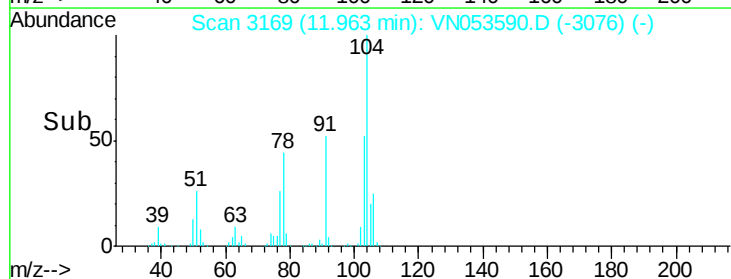
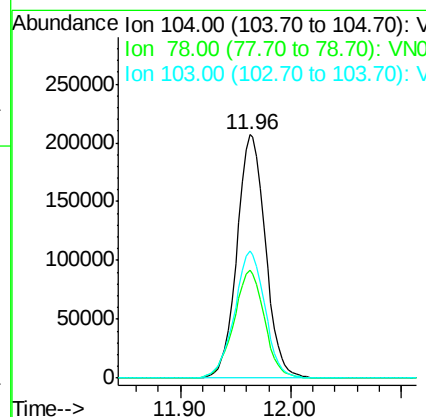
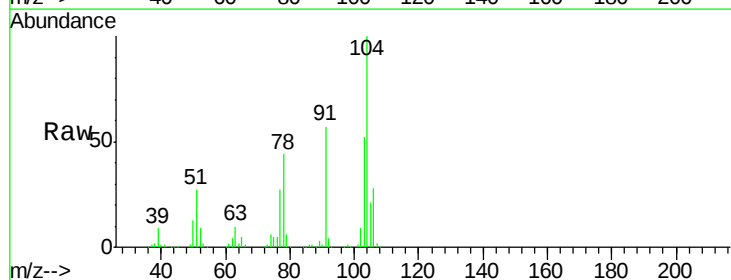
Manual Integrations
APPROVED

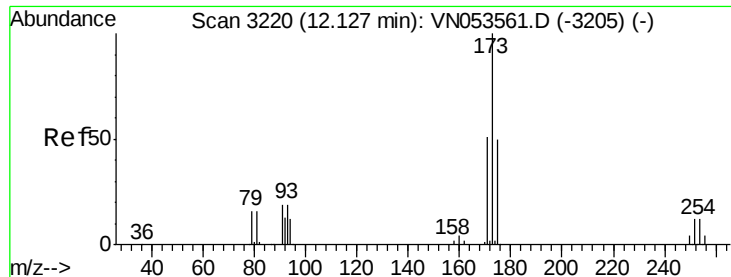
MMDadoda
2/5/2019 9:53:51 AM



#70
Styrene
Concen: 19.260 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Lower	Upper
104	100		
78	47.9	38.2	57.2
103	55.8	44.4	66.6





#71

Bromoform

Concen: 19.939 ug/l

RT: 12.13 min Scan# 3220

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

ClientSampleId :

VN0204MBS01

Tot Ion:173 Resp: 93427

Ion Ratio Lower Upper

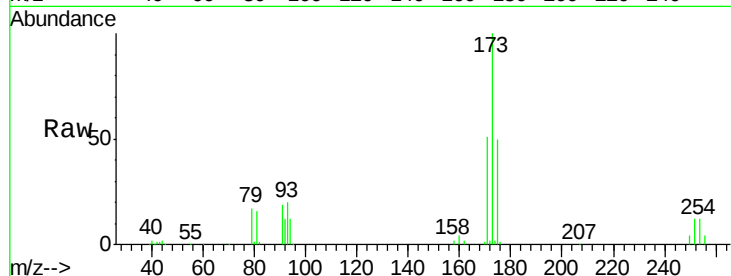
173 100

175 49.6 24.6 74.0

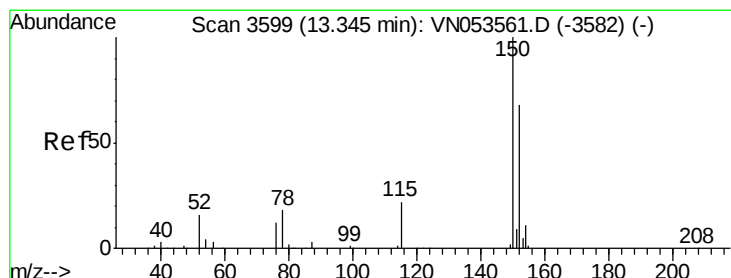
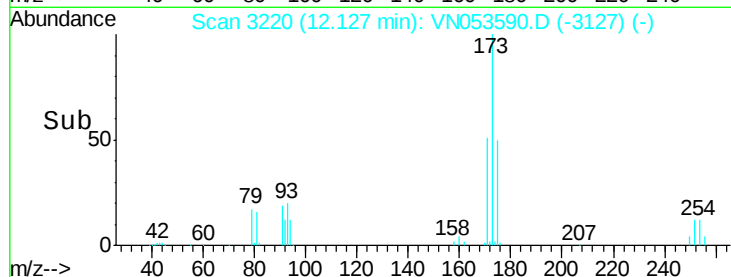
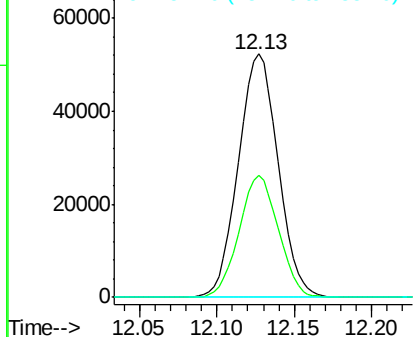
254 0.0 0.2 0.2#

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



#72

1,4-Dichlorobenzene-d4

Concen: 50.000 ug/l

RT: 13.34 min Scan# 3598

Delta R.T. -0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

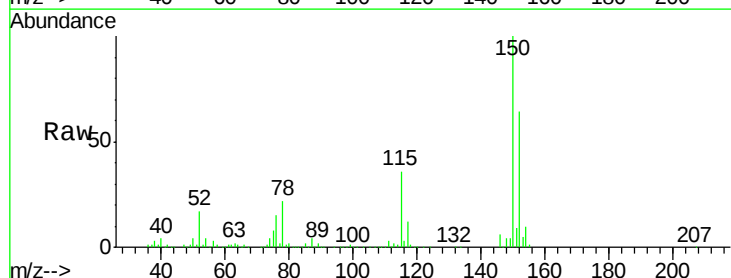
Tgt Ion:152 Resp: 436769

Ion Ratio Lower Upper

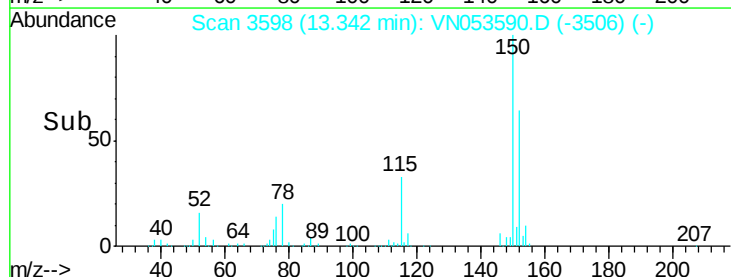
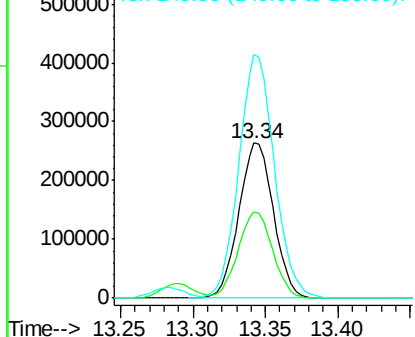
152 100

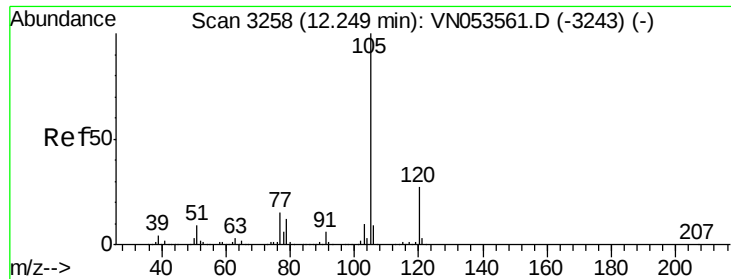
115 55.5 27.8 83.4

150 161.6 0.0 349.0



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





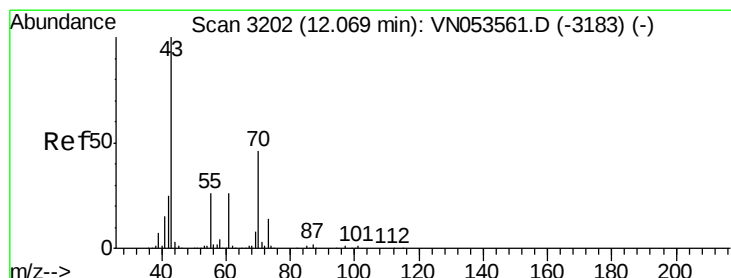
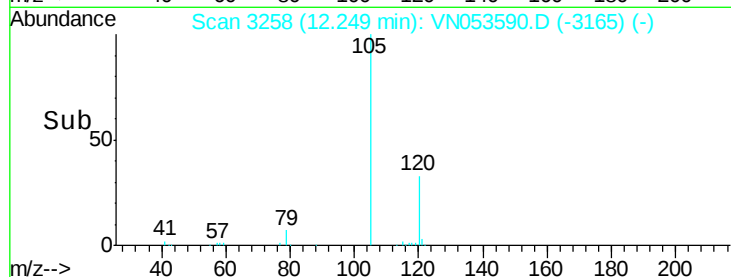
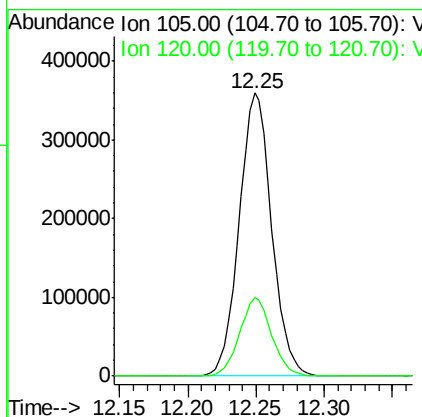
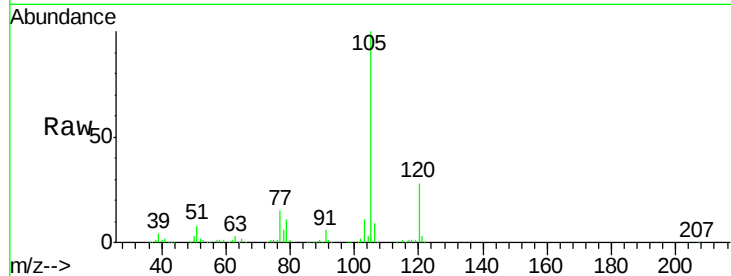
#73
Isopropylbenzene
Concen: 19.304 ug/l
RT: 12.25 min Scan# 3258
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

Tot Ion	Ratio	Resp	Lower	Upper
105	100	592715		
120	27.4	13.6	40.7	

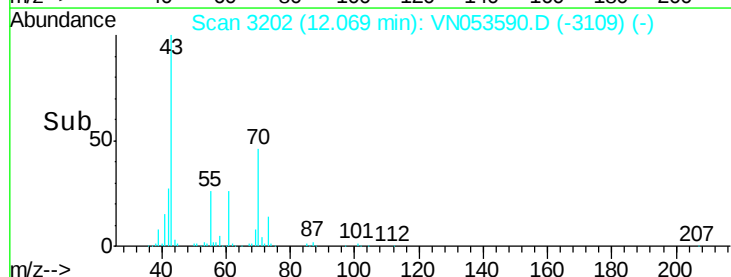
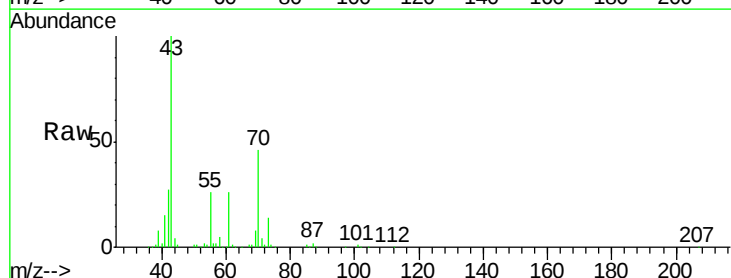
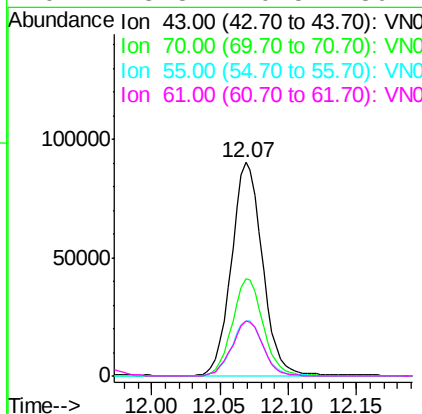
Manual Integrations
APPROVED

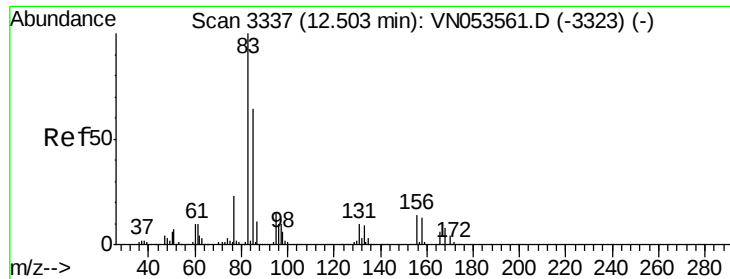
MMDadoda
2/5/2019 9:53:51 AM



#74
N-ethyl acetate
Concen: 19.235 ug/l
RT: 12.07 min Scan# 3202
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	142020		
70	45.5	35.4	53.2	
55	26.5	20.9	31.3	
61	25.8	20.5	30.7	





#75

1,1,2,2-Tetrachloroethane

Concen: 19.583 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

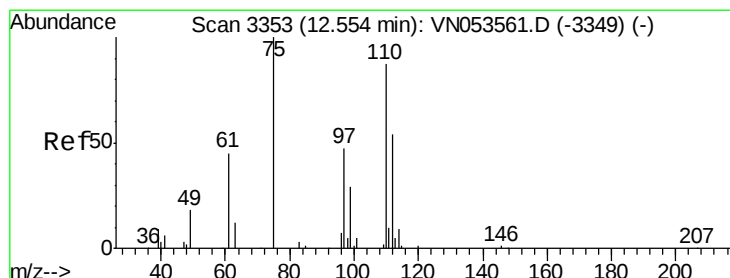
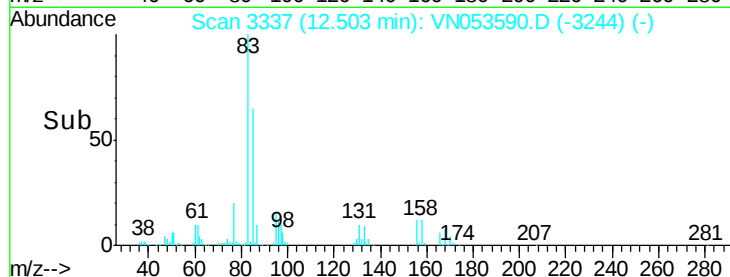
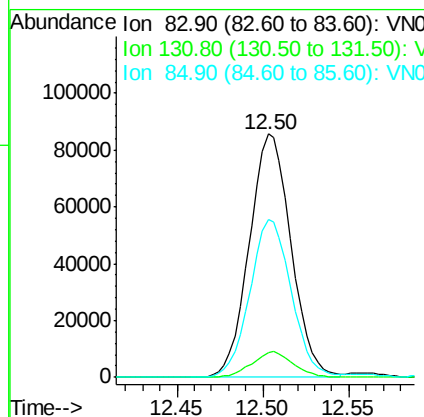
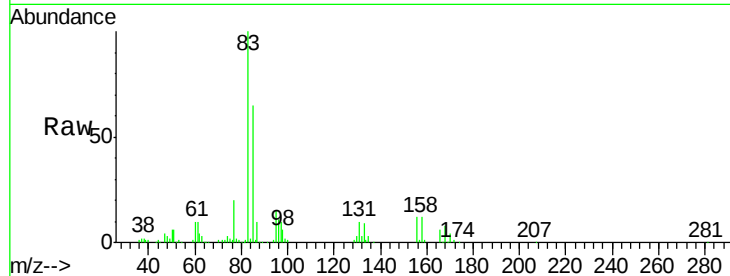
ClientSampleId :

VN0204MBS01

Tot Ion:	83	Resp:	143903
Ion Ratio	Lower	Upper	
83	100		
131	10.4	5.3	15.8
85	64.4	32.1	96.3

Manual Integrations
APPROVED

MMDadoda
2/5/2019 9:53:51 AM



#76

1,2,3-Trichloropropane

Concen: 21.204 ug/l m

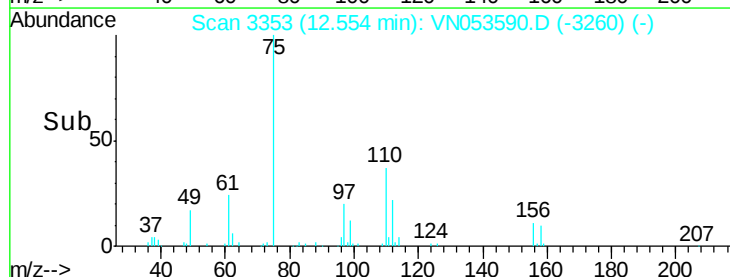
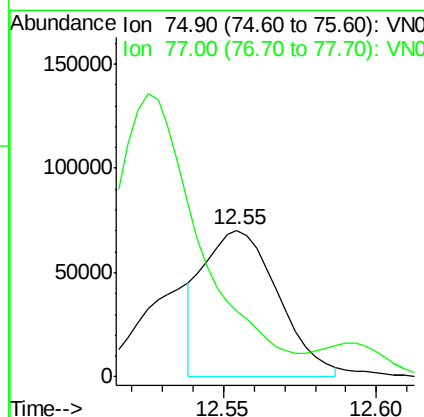
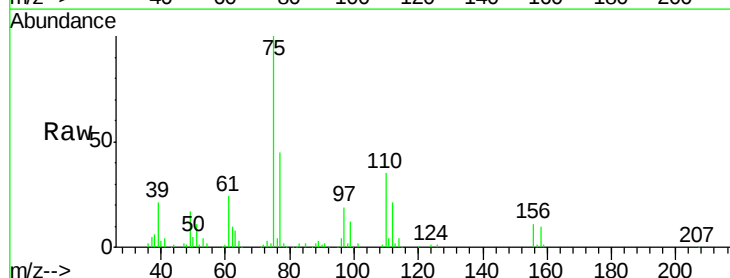
RT: 12.55 min Scan# 3353

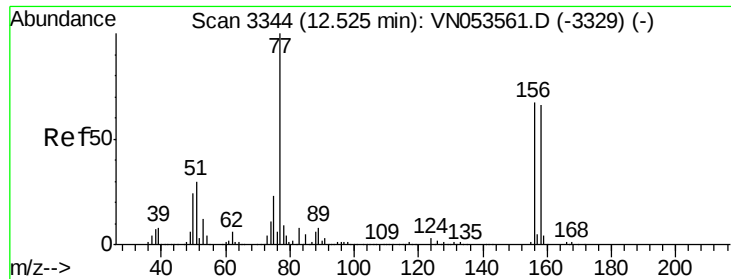
Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Tgt Ion:	75	Resp:	118955
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 18.991 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

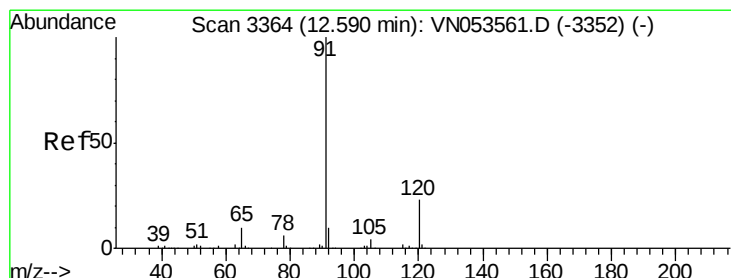
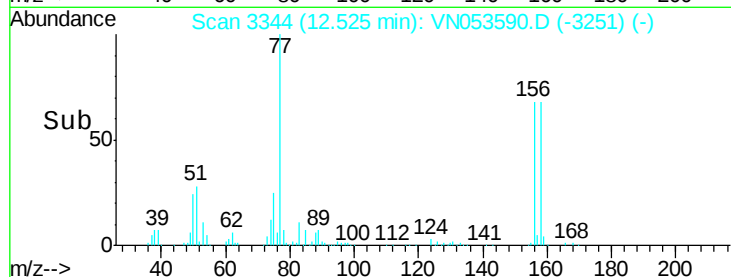
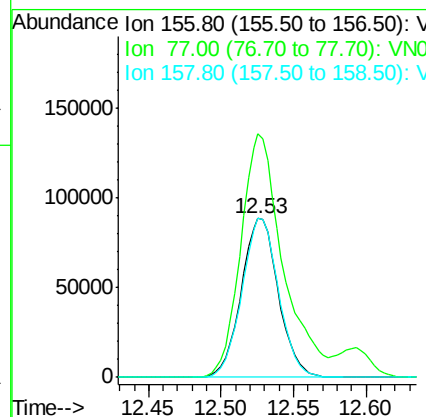
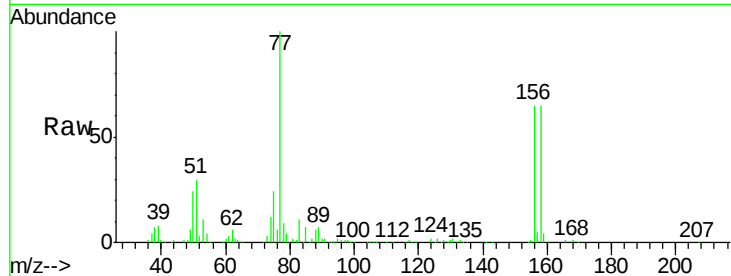
ClientSampleId :

VN0204MBS01

Tot Ion:	156	Resp:	157148
Ion Ratio	Lower	Upper	
156	100		
77	174.5	87.9	263.8
158	98.7	48.8	146.4

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#78

n-propylbenzene

Concen: 19.258 ug/l

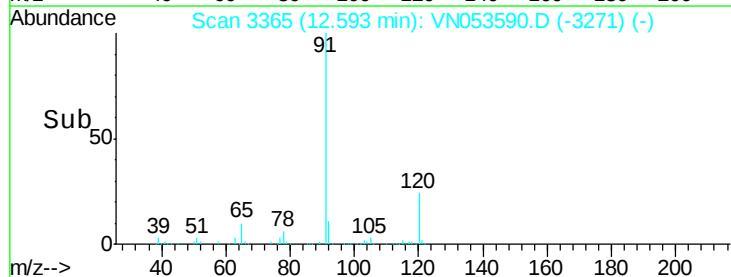
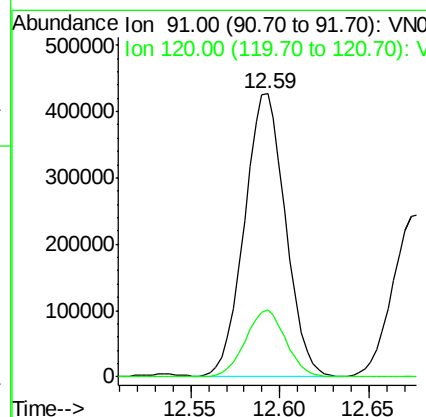
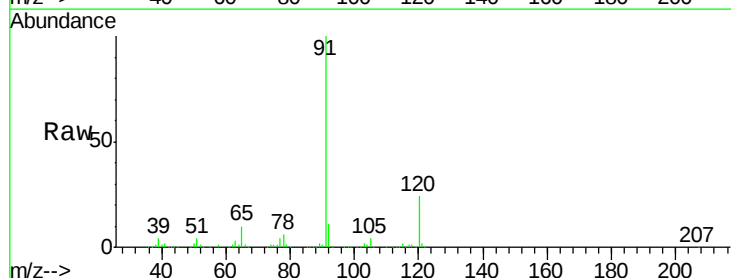
RT: 12.59 min Scan# 3365

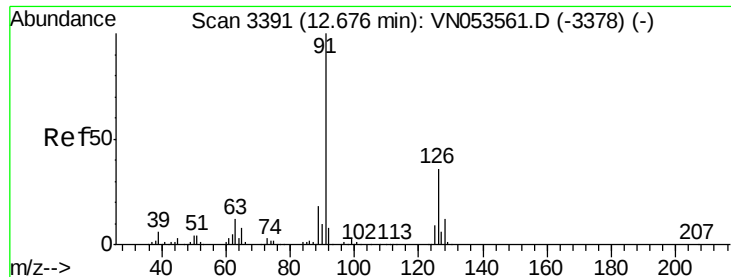
Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Tgt Ion:	91	Resp:	683567
Ion Ratio	Lower	Upper	
91	100		
120	23.4	11.9	35.5





#79

2-Chlorotoluene

Concen: 19.440 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

ClientSampleId :

VN0204MBS01

Tot Ion: 91 Resp: 409381

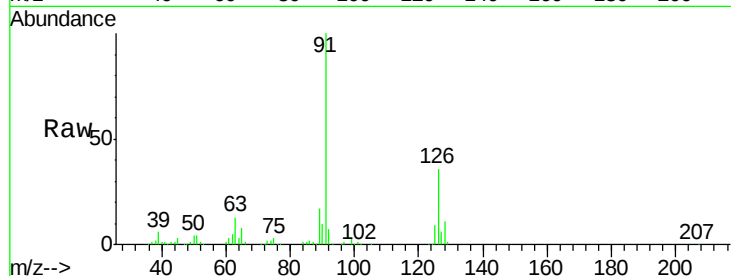
Ion Ratio Lower Upper

91 100

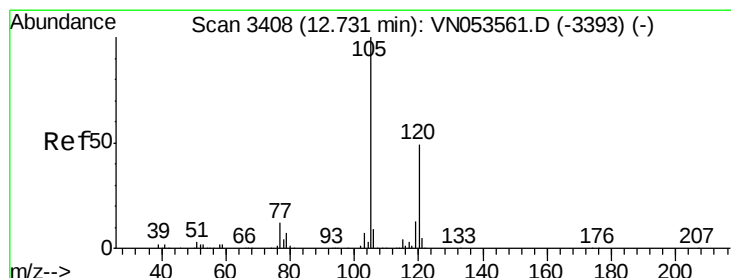
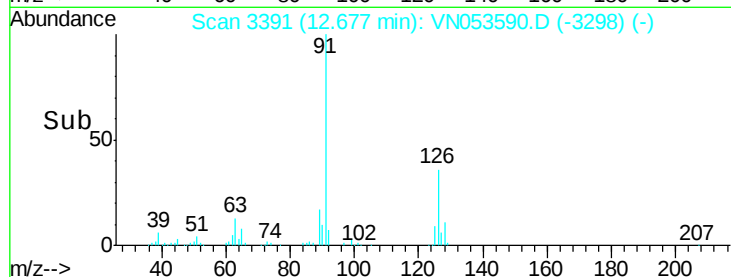
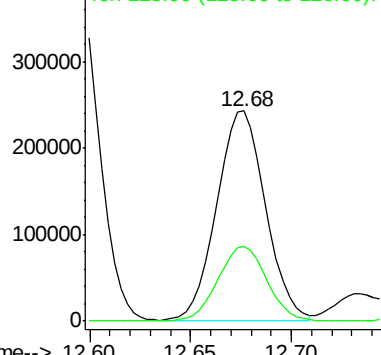
126 35.8 17.9 53.7

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Abundance Ion 91.00 (90.70 to 91.70): VN053561.D (-3378) (-)



#80

1,3,5-Trimethylbenzene

Concen: 19.954 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN053590.D

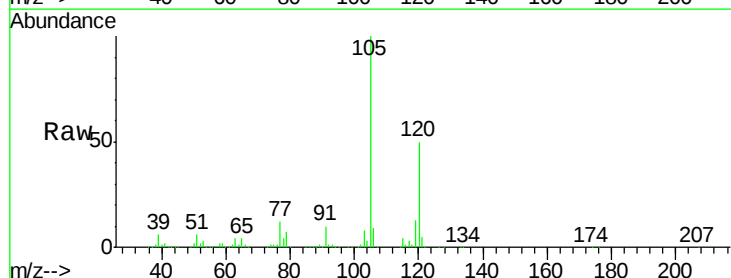
Acq: 4 Feb 2019 12:23

Tgt Ion: 105 Resp: 508052

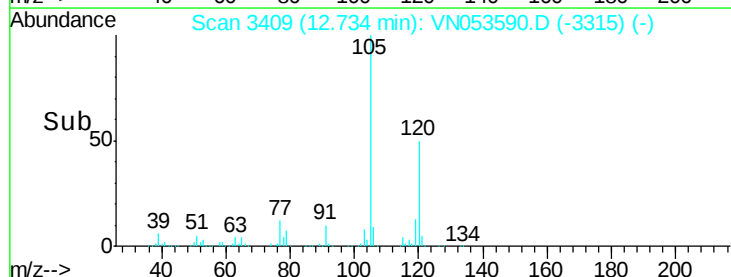
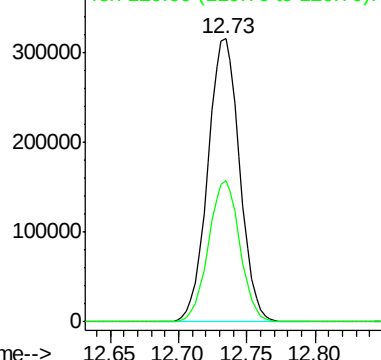
Ion Ratio Lower Upper

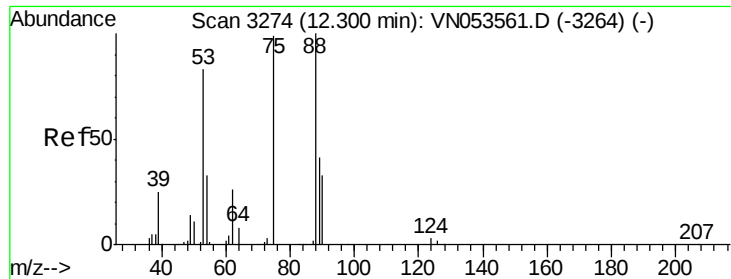
105 100

120 49.4 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN053561.D (-3393) (-)





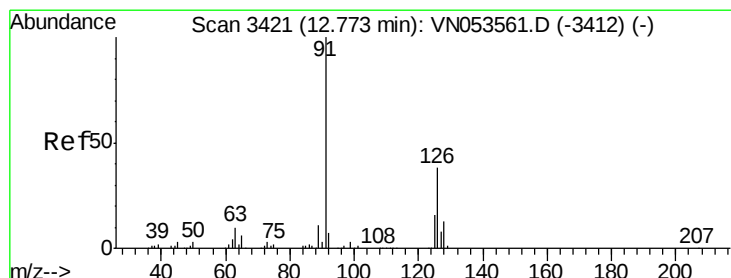
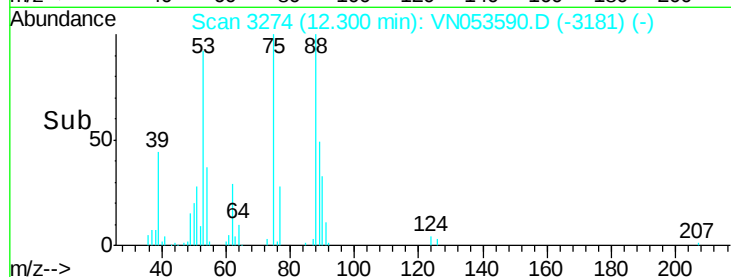
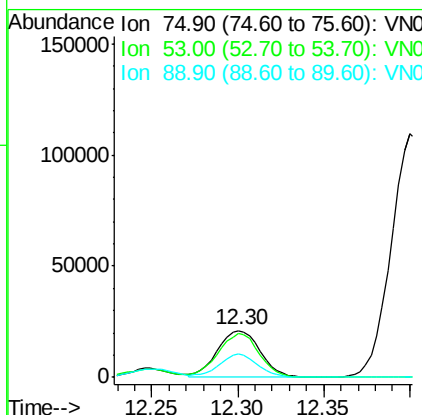
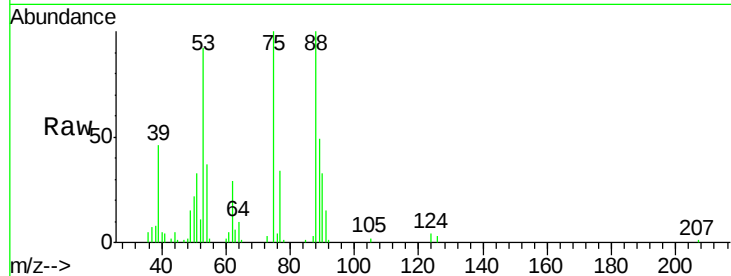
#81
trans-1,4-Dichloro-2-butene
Concen: 18.491 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

Tot Ion	Ratio	Lower	Upper
75	100		
53	90.6	69.8	104.6
89	44.4	35.6	53.4

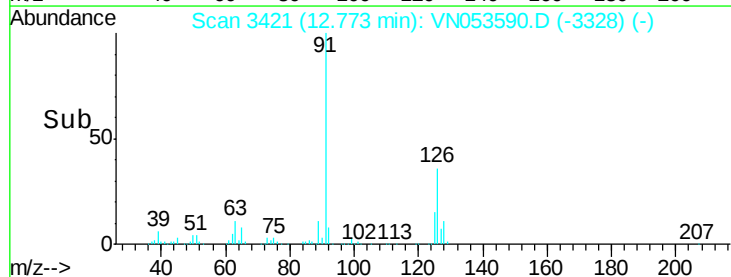
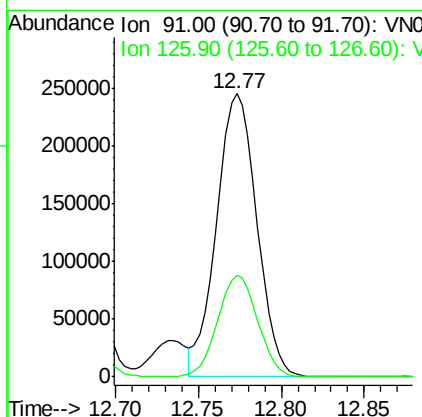
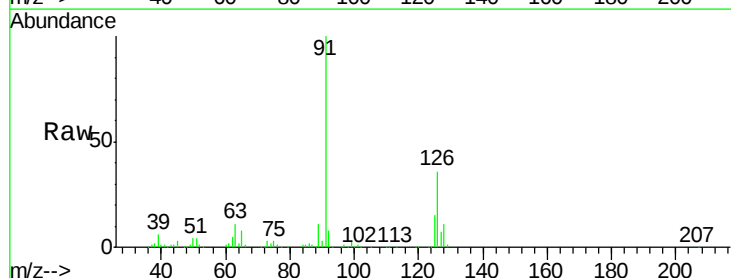
Manual Integrations
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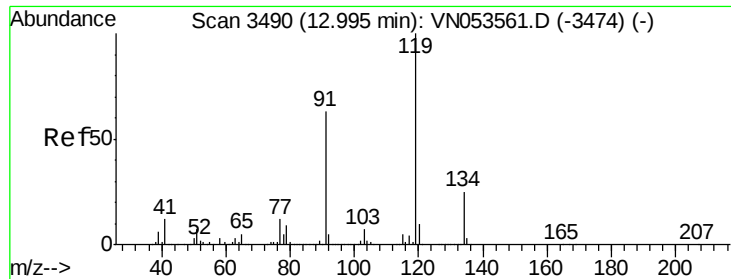
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#82
4-Chlorotoluene
Concen: 19.140 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Lower	Upper
91	100		
126	35.6	17.6	52.9





#83

tert-Butylbenzene

Concen: 20.023 ug/l

RT: 12.99 min Scan# 3490

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

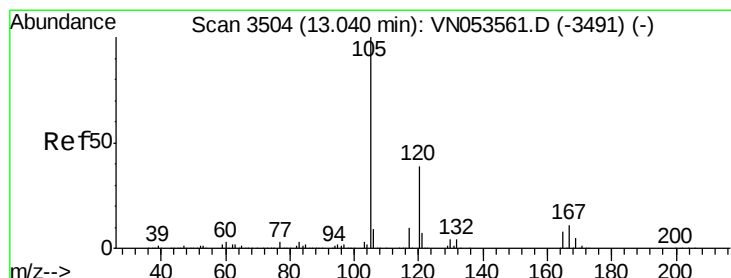
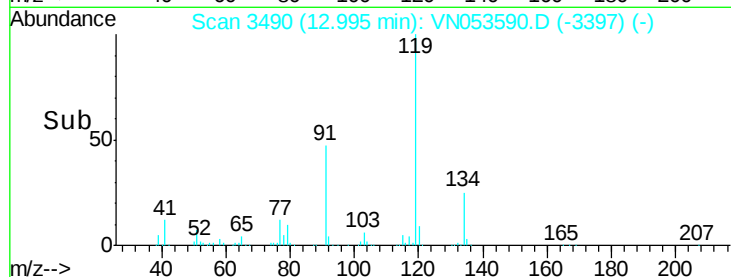
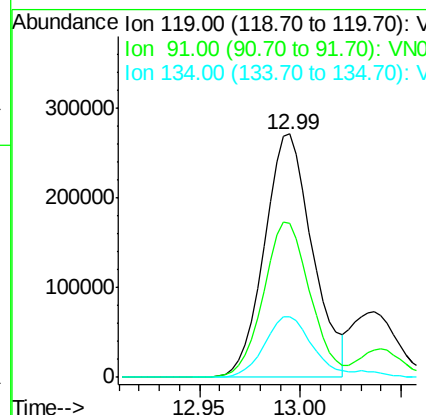
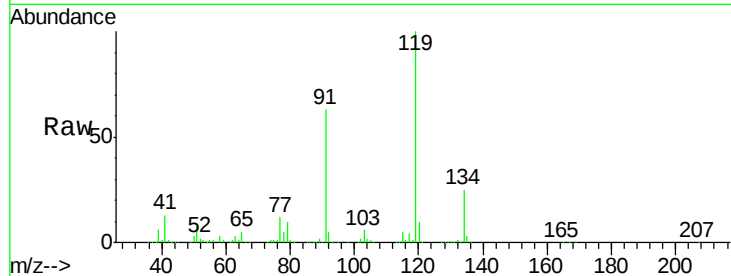
ClientSampleId :

VN0204MBS01

Tot Ion	Ratio	Resp	Lower	Upper
119	100	450584		
91	62.3	31.3	93.8	
134	24.7	12.9	38.7	

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#84

1,2,4-Trimethylbenzene

Concen: 19.978 ug/l

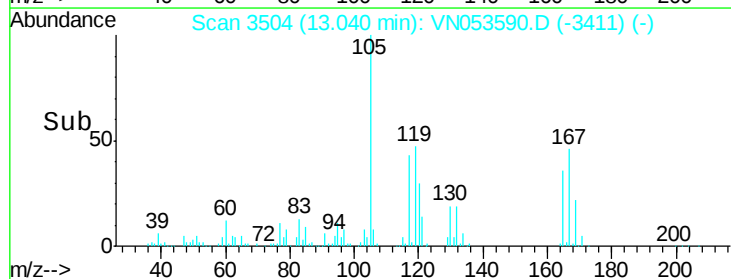
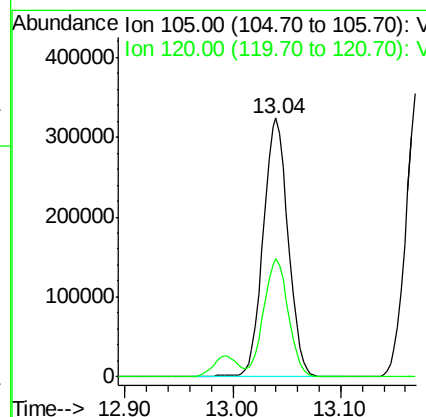
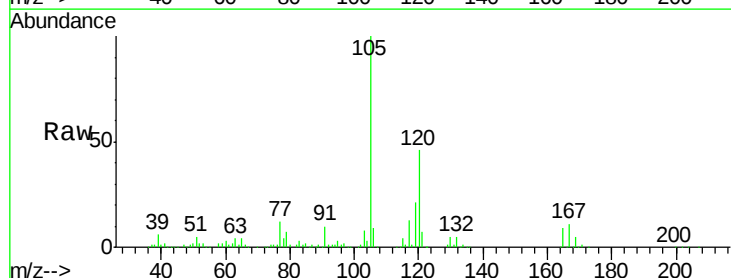
RT: 13.04 min Scan# 3504

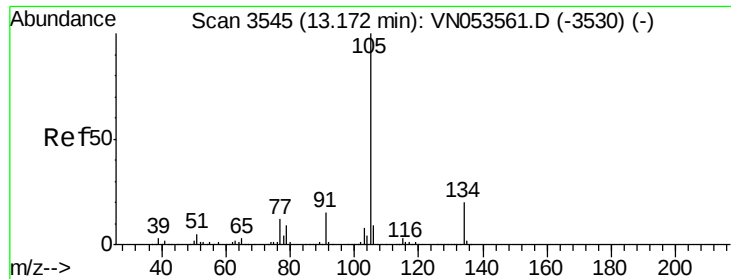
Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	518232		
120	45.4	23.0	69.0	





#85

sec-Butylbenzene

Concen: 19.811 ug/l

RT: 13.17 min Scan# 3545

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

ClientSampled :

VN0204MBS01

Tot Ion:105 Resp: 606672

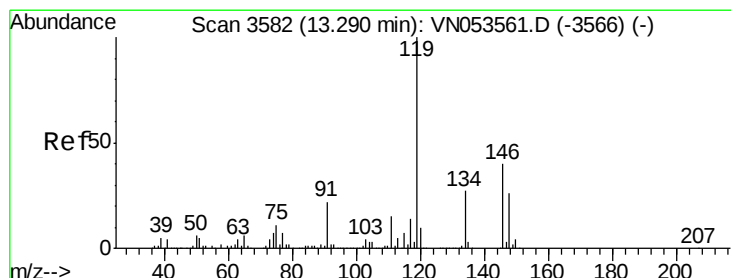
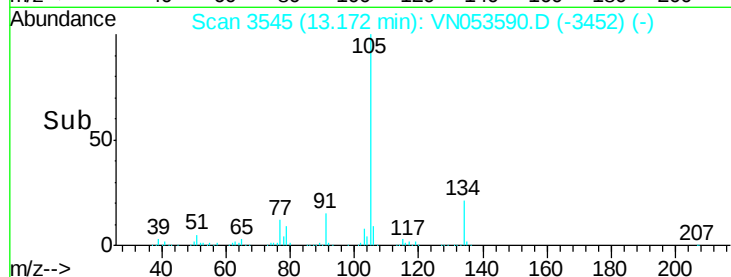
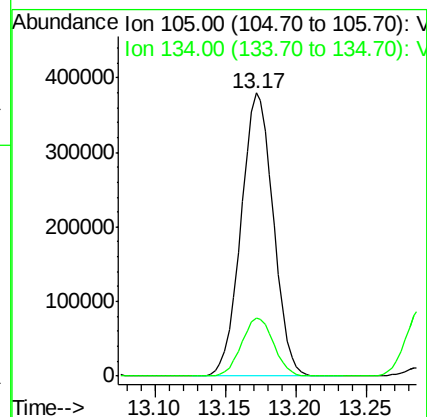
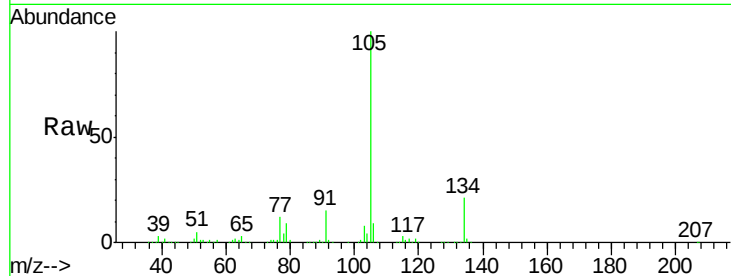
Ion Ratio Lower Upper

105 100

134 20.6 10.2 30.6

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#86

p-Isopropyltoluene

Concen: 19.767 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

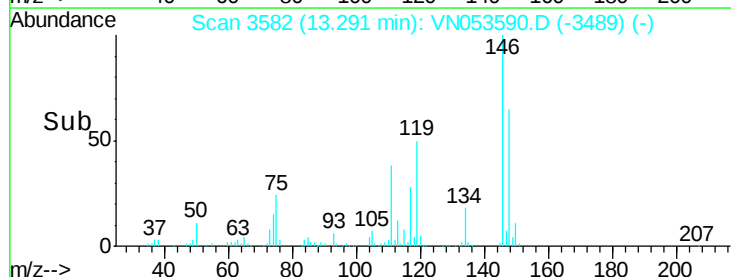
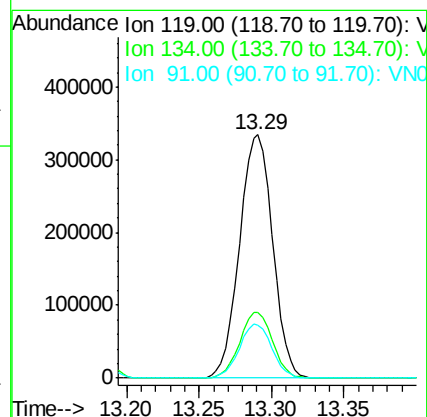
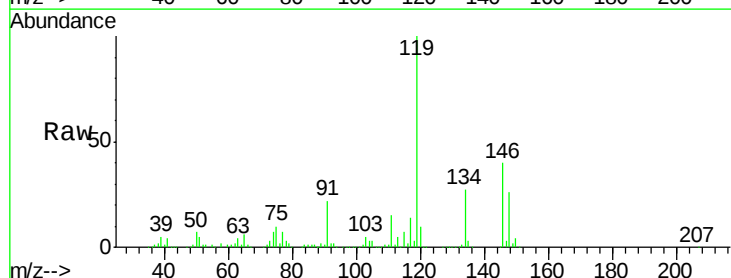
Tgt Ion:119 Resp: 529399

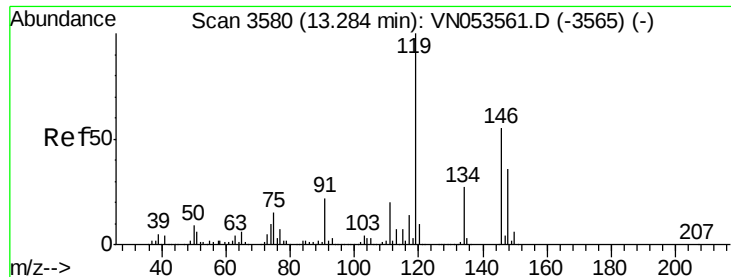
Ion Ratio Lower Upper

119 100

134 27.0 13.5 40.4

91 21.9 11.0 33.0





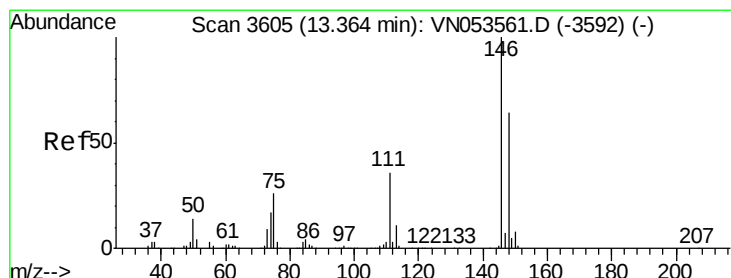
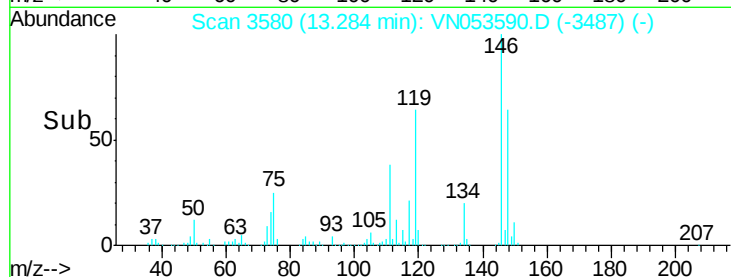
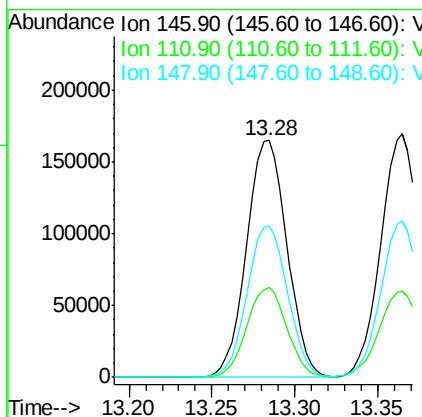
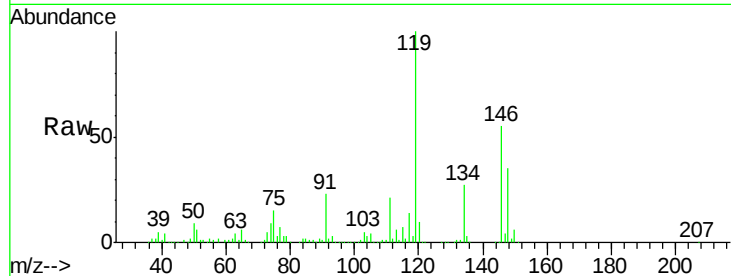
#87
 1,3-Dichlorobenzene
 Concen: 18.803 ug/l
 RT: 13.28 min Scan# 3580
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Instrument :
 MSVOA_N
 ClientSampled :
 VN0204MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	37.7	18.8	56.3
148	64.1	32.0	96.2

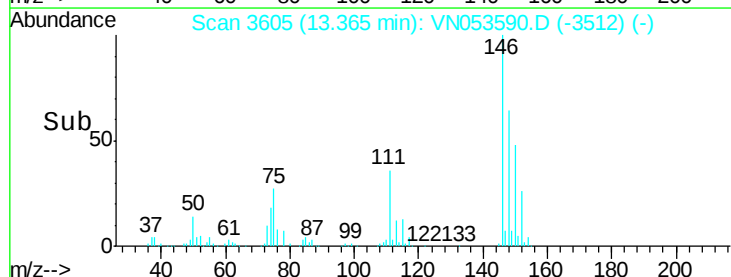
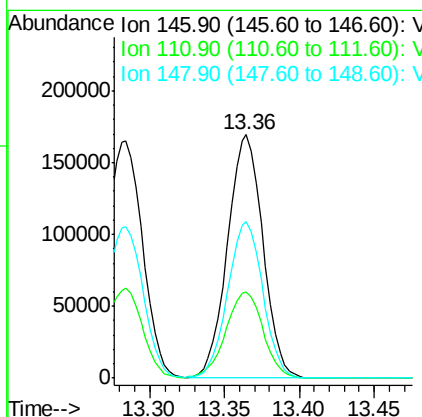
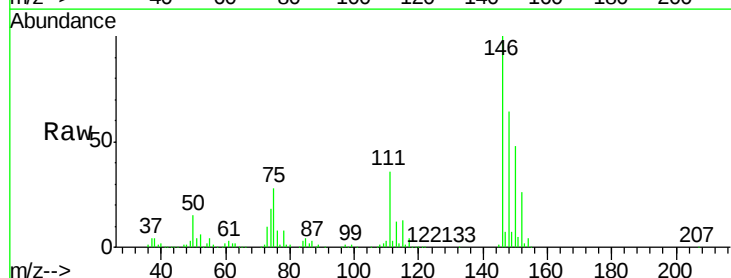
Manual Integrations
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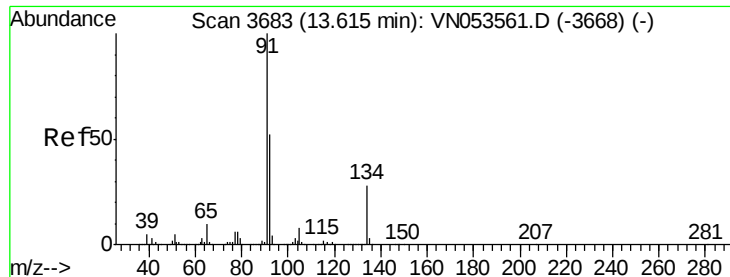
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#88
 1,4-Dichlorobenzene
 Concen: 18.986 ug/l
 RT: 13.36 min Scan# 3605
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Lower	Upper
146	100		
111	37.3	18.6	55.8
148	64.0	32.4	97.0





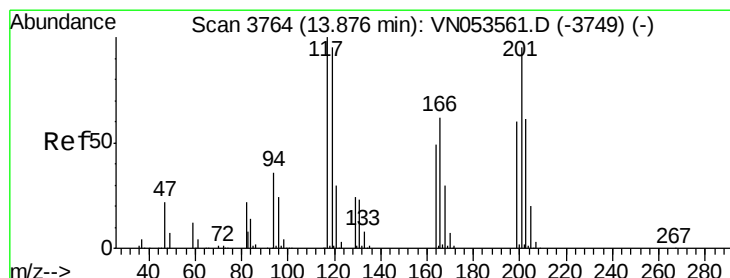
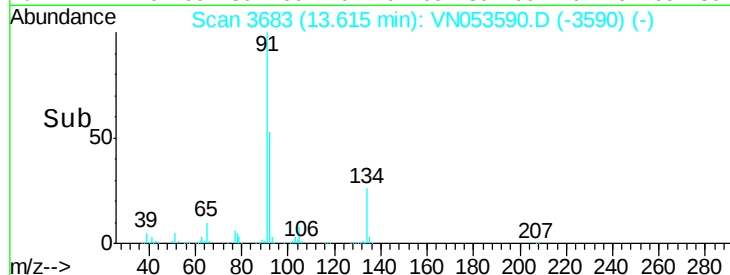
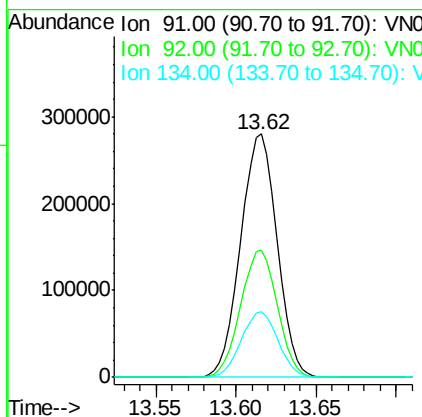
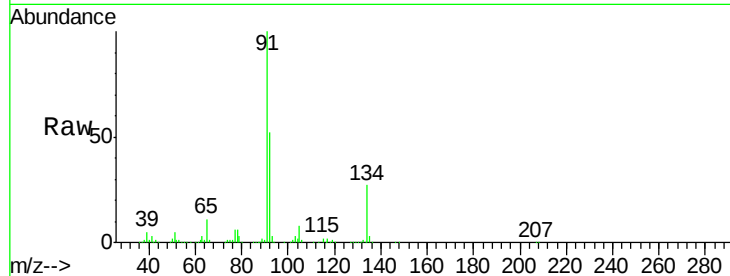
#89
n-Butylbenzene
Concen: 18.808 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Instrument :
MSVOA_N
ClientSampleId :
VN0204MBS01

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.6	26.3	78.8
134	27.2	13.5	40.5

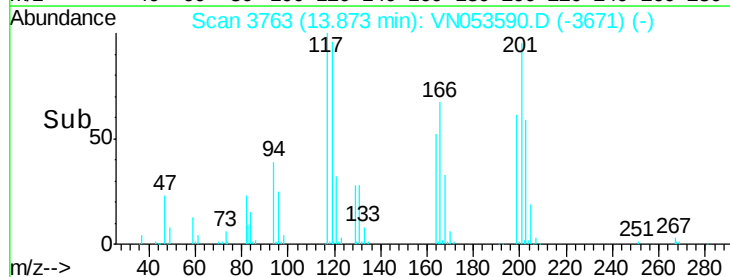
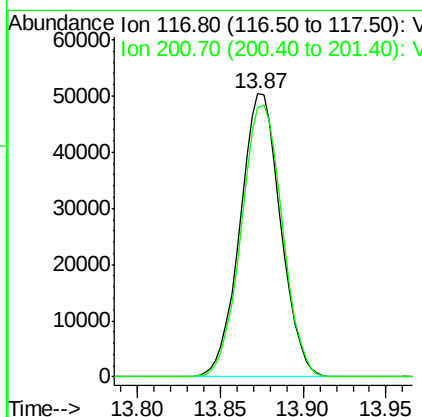
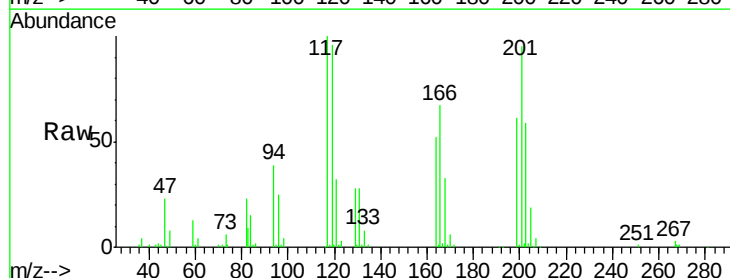
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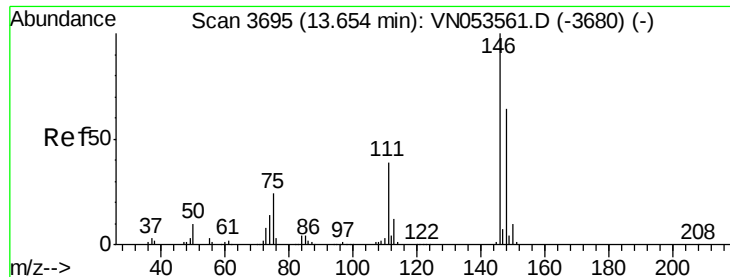
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#90
Hexachloroethane
Concen: 19.477 ug/l
RT: 13.87 min Scan# 3763
Delta R.T. -0.00 min
Lab File: VN053590.D
Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Lower	Upper
117	100		
201	97.1	46.8	140.4





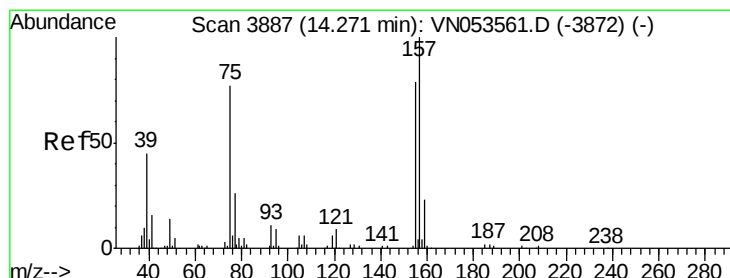
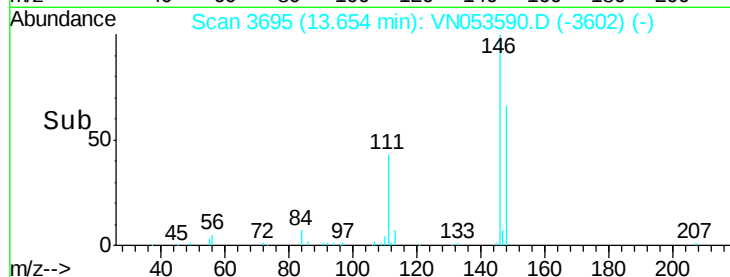
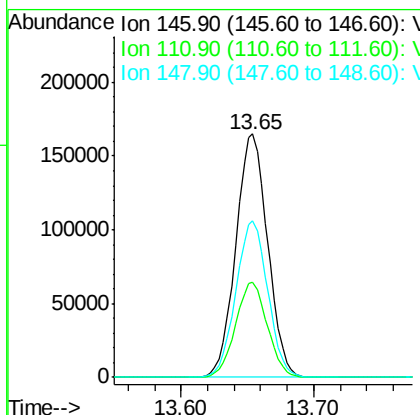
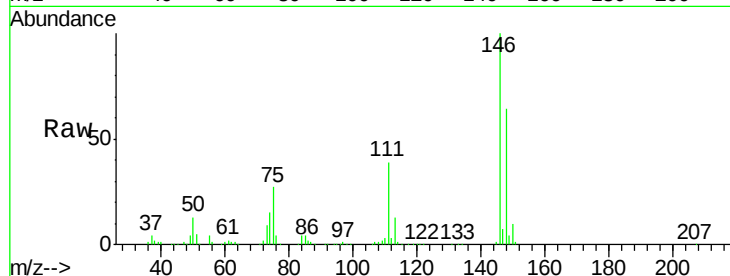
#91
 1,2-Dichlorobenzene
 Concen: 19.291 ug/l
 RT: 13.65 min Scan# 3695
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Instrument :
 MSVOA_N
 ClientSampleId :
 VN0204MBS01

Tot Ion	Ratio	Lower	Upper
146	100		
111	38.7	19.5	58.5
148	64.2	31.9	95.9

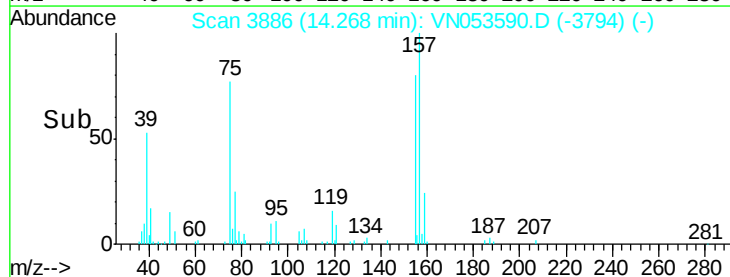
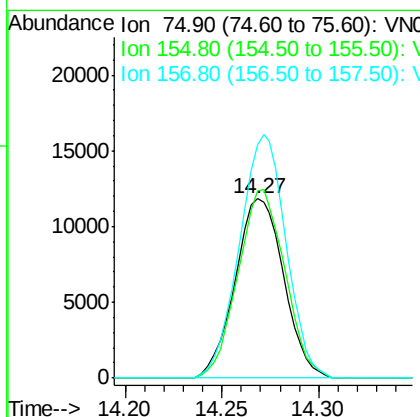
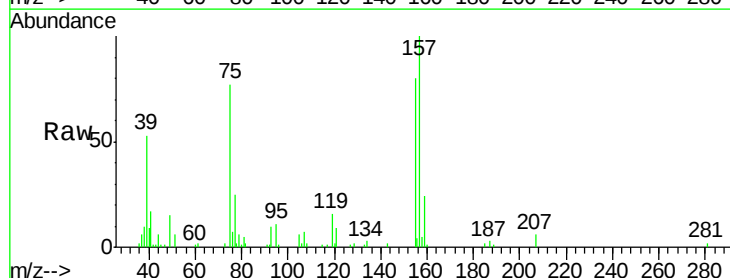
Manual Integrations
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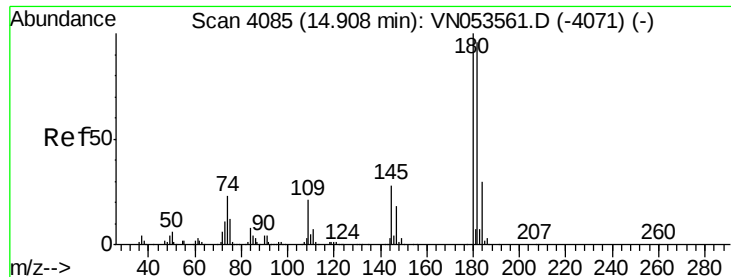
MMDadoda
 2/5/2019 9:53:51 AM



#92
 1,2-Dibromo-3-Chloropropane
 Concen: 19.780 ug/l
 RT: 14.27 min Scan# 3886
 Delta R.T. -0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Lower	Upper
75	100		
155	101.4	48.9	146.7
157	130.2	63.7	191.3





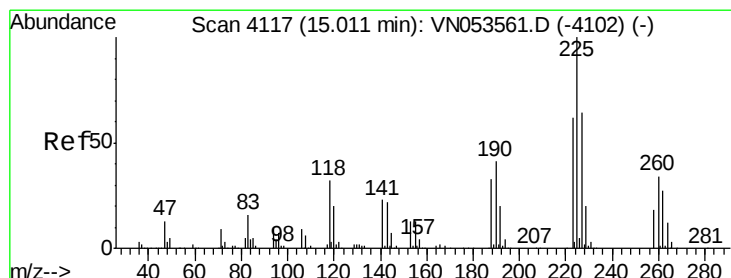
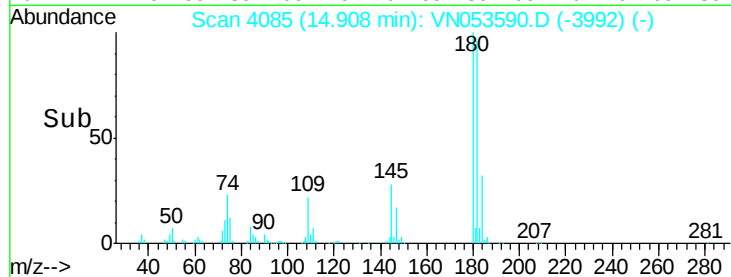
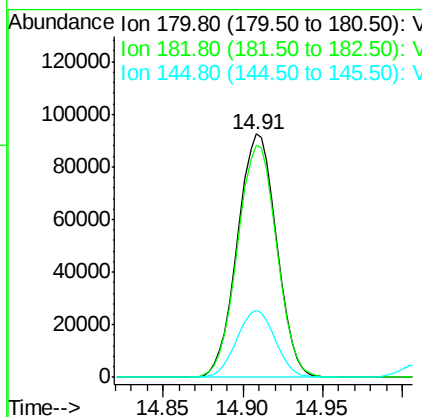
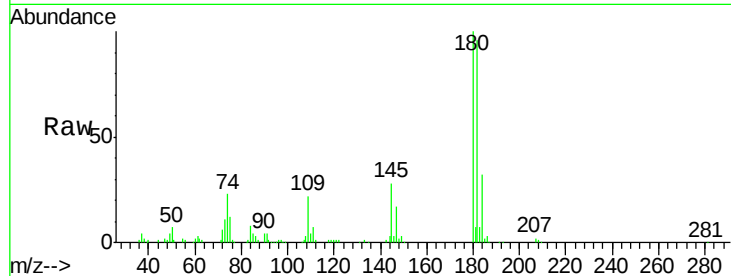
#93
 1,2,4-Trichlorobenzene
 Concen: 18.851 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Instrument :
 MSVOA_N
 ClientSampled :
 VN0204MBS01

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	96.1	48.1	144.3	
145	27.2	13.9	41.6	

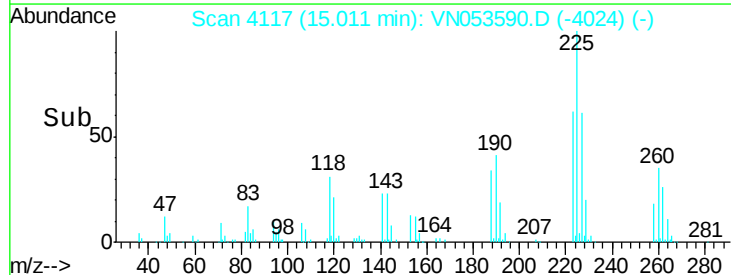
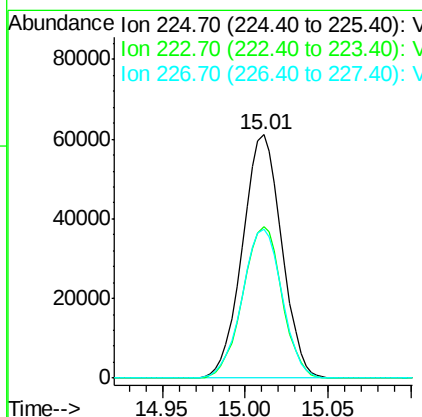
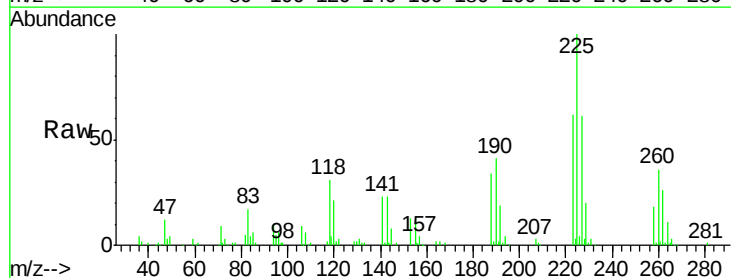
Manual Integrations
 APPROVED

MMDadoda
 2/5/2019 9:53:51 AM



#94
 Hexachlorobutadiene
 Concen: 19.722 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN053590.D
 Acq: 4 Feb 2019 12:23

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.2	31.1	93.2	
227	62.5	32.0	96.2	





#95

Naphthalene

Concen: 18.203 ug/l

RT: 15.13 min Scan# 4155

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Instrument :

MSVOA_N

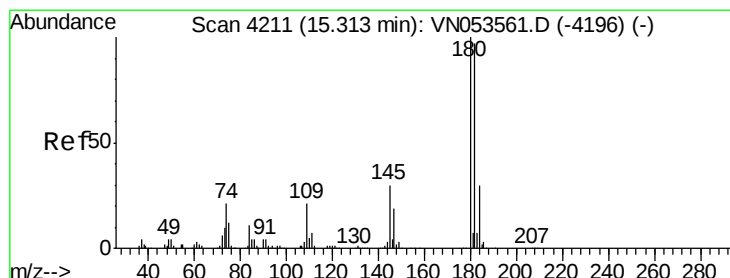
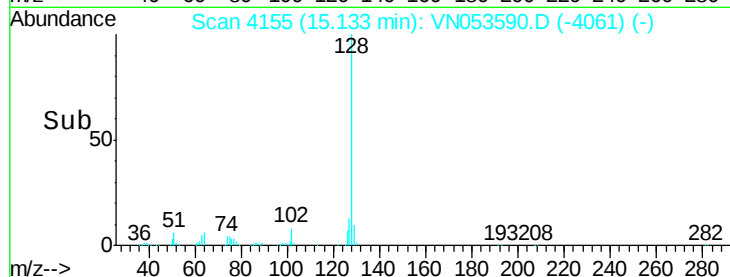
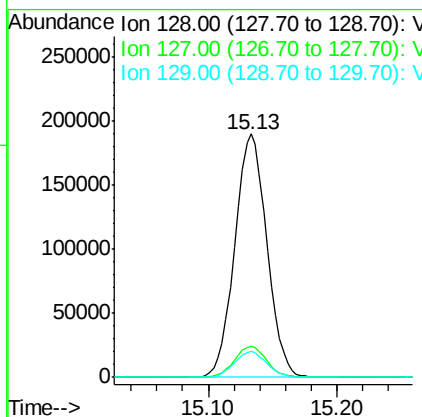
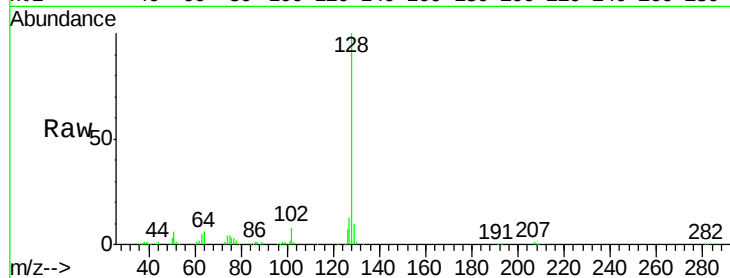
ClientSampled :

VN0204MBS01

Tot Ion:	128	Resp:	327296
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.3	15.5
129	10.6	8.6	13.0

Manual Integrations
APPROVED

MMDadoda
2/5/2019 9:53:51 AM



#96

1,2,3-Trichlorobenzene

Concen: 19.397 ug/l

RT: 15.31 min Scan# 4211

Delta R.T. 0.00 min

Lab File: VN053590.D

Acq: 4 Feb 2019 12:23

Tgt Ion:	180	Resp:	147000
Ion Ratio	Lower	Upper	
180	100		
182	95.5	47.9	143.8
145	29.3	14.7	44.1

