

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN080618\
 Data File : VN050381.D
 Acq On : 6 Aug 2018 14:04
 Operator : MD\SY
 Sample : VSTDICV050
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 8 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080618

Manual Integrations
 APPROVED

MMDadoda
 8/7/2018 9:58:32 AM

Quant Time: Aug 07 05:56:12 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N080618W.M
 Quant Title : SW846 8260
 QLast Update : Tue Aug 07 05:22:15 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	723962	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	1048873	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	975470	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.35	152	544604	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	443117	45.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	91.62%	
35) Dibromofluoromethane	7.59	113	397641	47.25	ug/l	0.00
Spiked Amount	50.000		Recovery	=	94.50%	
50) Toluene-d8	10.09	98	1537226	48.58	ug/l	0.00
Spiked Amount	50.000		Recovery	=	97.16%	
62) 4-Bromofluorobenzene	12.40	95	539376	50.01	ug/l	0.00
Spiked Amount	50.000		Recovery	=	100.02%	

Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	392981	48.90	ug/l	99
3) Chloromethane	2.06	50	495352	52.23	ug/l	100
4) Vinyl Chloride	2.18	62	501448	48.21	ug/l	98
5) Bromomethane	2.53	94	212240	42.11	ug/l	99
6) Chloroethane	2.68	64	300630	46.90	ug/l	97
7) Trichlorofluoromethane	3.00	101	635898	47.33	ug/l	99
8) Diethyl Ether	3.41	74	237497	48.21	ug/l	100
9) 1,1,2-Trichlorotrifluoroet	3.75	101	395017	47.58	ug/l	99
10) Methyl Iodide	3.94	142	224757	61.44	ug/l	98
11) Tert butyl alcohol	4.80	59	165979	213.60	ug/l	99
12) 1,1-Dichloroethene	3.73	96	371839	47.51	ug/l	98
13) Acrolein	3.60	56	241328	239.38	ug/l	97
14) Allyl chloride	4.32	41	607621	48.34	ug/l	98
15) Acrylonitrile	4.99	53	752237	231.11	ug/l	99
16) Acetone	3.82	43	628399	217.80	ug/l	100
17) Carbon Disulfide	4.05	76	1151120	45.23	ug/l	100
18) Methyl Acetate	4.33	43	347252	46.31	ug/l	98
19) Methyl tert-butyl Ether	5.05	73	1081629	48.69	ug/l	99
20) Methylene Chloride	4.55	84	433193	49.08	ug/l	96
21) trans-1,2-Dichloroethene	5.04	96	397868	46.98	ug/l	100
22) Diisopropyl ether	5.95	45	1271860	49.53	ug/l	100
23) Vinyl Acetate	5.90	43	4473093	244.17	ug/l	100
24) 1,1-Dichloroethane	5.84	63	735166	46.66	ug/l	100
25) 2-Butanone	6.84	43	1076536	224.60	ug/l	98
26) 2,2-Dichloropropane	6.82	77	607411	46.77	ug/l	100
27) cis-1,2-Dichloroethene	6.83	96	450785	48.02	ug/l	100
28) Bromochloromethane	7.19	49	358332	49.41	ug/l	100
29) Tetrahydrofuran	7.21	42	574198	223.81	ug/l	99
30) Chloroform	7.37	83	740421	47.01	ug/l	100
31) Cyclohexane	7.65	56	682021	49.17	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	644186	47.62	ug/l	99
36) 1,1-Dichloropropene	7.79	75	579685	50.30	ug/l	99
37) Ethyl Acetate	6.93	43	395310	47.63	ug/l	100
38) Carbon Tetrachloride	7.77	117	568663	47.30	ug/l	99

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
39) Methylcyclohexane	9.08	83	667509	53.06	ug/l	97
40) Benzene	8.04	78	1731427	48.87	ug/l	100
41) Methacrylonitrile	7.17	41	209540	47.48	ug/l #	82
42) 1,2-Dichloroethane	8.12	62	540281	48.03	ug/l	99
43) Isopropyl Acetate	8.17	43	671306	46.86	ug/l #	86
44) Trichloroethene	8.83	130	460916	48.41	ug/l	100
45) 1,2-Dichloropropane	9.12	63	446908	47.98	ug/l	98
46) Dibromomethane	9.21	93	274761	47.77	ug/l	99
47) Bromodichloromethane	9.40	83	569757	47.82	ug/l	100
48) Methyl methacrylate	9.20	41	346678	48.28	ug/l	99
49) 1,4-Dioxane	9.20	88	98414	889.14	ug/l	96
51) 4-Methyl-2-Pentanone	9.99	43	2395524	232.17	ug/l	99
52) Toluene	10.16	92	1079051	50.70	ug/l	99
53) t-1,3-Dichloropropene	10.38	75	607060	50.75	ug/l	100
54) cis-1,3-Dichloropropene	9.84	75	682210	51.10	ug/l	98
55) 1,1,2-Trichloroethane	10.56	97	394928	47.53	ug/l	98
56) Ethyl methacrylate	10.43	69	533919	45.57	ug/l	99
57) 1,3-Dichloropropane	10.71	76	669883	49.12	ug/l	100
58) 2-Chloroethyl Vinyl ether	9.70	63	1272880	232.78	ug/l	99
59) 2-Hexanone	10.75	43	1673934	232.47	ug/l	98
60) Dibromochloromethane	10.90	129	442224	48.31	ug/l	98
61) 1,2-Dibromoethane	11.01	107	403294	49.24	ug/l	100
64) Tetrachloroethene	10.63	164	462491	50.74	ug/l	98
65) Chlorobenzene	11.43	112	1193536	48.80	ug/l	99
66) 1,1,1,2-Tetrachloroethane	11.51	131	431673	48.50	ug/l	99
67) Ethyl Benzene	11.51	91	2073792	52.46	ug/l	99
68) m/p-Xylenes	11.62	106	1617835	107.50	ug/l	99
69) o-Xylene	11.95	106	780497	53.84	ug/l	97
70) Styrene	11.96	104	1275195	54.09	ug/l	100
71) Bromoform	12.13	173	315571	48.51	ug/l #	98
73) Isopropylbenzene	12.25	105	2063854	50.48	ug/l	100
74) N-amyl acetate	12.07	43	610494	46.07	ug/l	99
75) 1,1,2,2-Tetrachloroethane	12.51	83	520448	44.13	ug/l	99
76) 1,2,3-Trichloropropane	12.55	75	430187m	43.64	ug/l	
77) Bromobenzene	12.53	156	534163	48.77	ug/l	99
78) n-propylbenzene	12.59	91	2405042	51.97	ug/l	100
79) 2-Chlorotoluene	12.68	91	1422526	49.77	ug/l	99
80) 1,3,5-Trimethylbenzene	12.73	105	1747544	52.66	ug/l	99
81) trans-1,4-Dichloro-2-buten	12.30	75	137361	48.96	ug/l	98
82) 4-Chlorotoluene	12.77	91	1475747	51.78	ug/l	100
83) tert-Butylbenzene	12.99	119	1497354	51.72	ug/l	99
84) 1,2,4-Trimethylbenzene	13.04	105	1794444	53.38	ug/l	99
85) sec-Butylbenzene	13.17	105	2003366	51.92	ug/l	100
86) p-Isopropyltoluene	13.29	119	1779449	53.81	ug/l	100
87) 1,3-Dichlorobenzene	13.28	146	975380	50.00	ug/l	99
88) 1,4-Dichlorobenzene	13.36	146	962716	49.42	ug/l	100
89) n-Butylbenzene	13.62	91	1505294	53.47	ug/l	99
90) Hexachloroethane	13.88	117	270974	46.08	ug/l	100
91) 1,2-Dichlorobenzene	13.65	146	952010	48.69	ug/l	100
92) 1,2-Dibromo-3-Chloropropan	14.27	75	82747	41.32	ug/l	95

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	526480	52.86	ug/l	99
94) Hexachlorobutadiene	15.01	225	303724	56.03	ug/l	99
95) Naphthalene	15.14	128	1145261	43.91	ug/l	100
96) 1,2,3-Trichlorobenzene	15.32	180	483121	47.98	ug/l	99

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

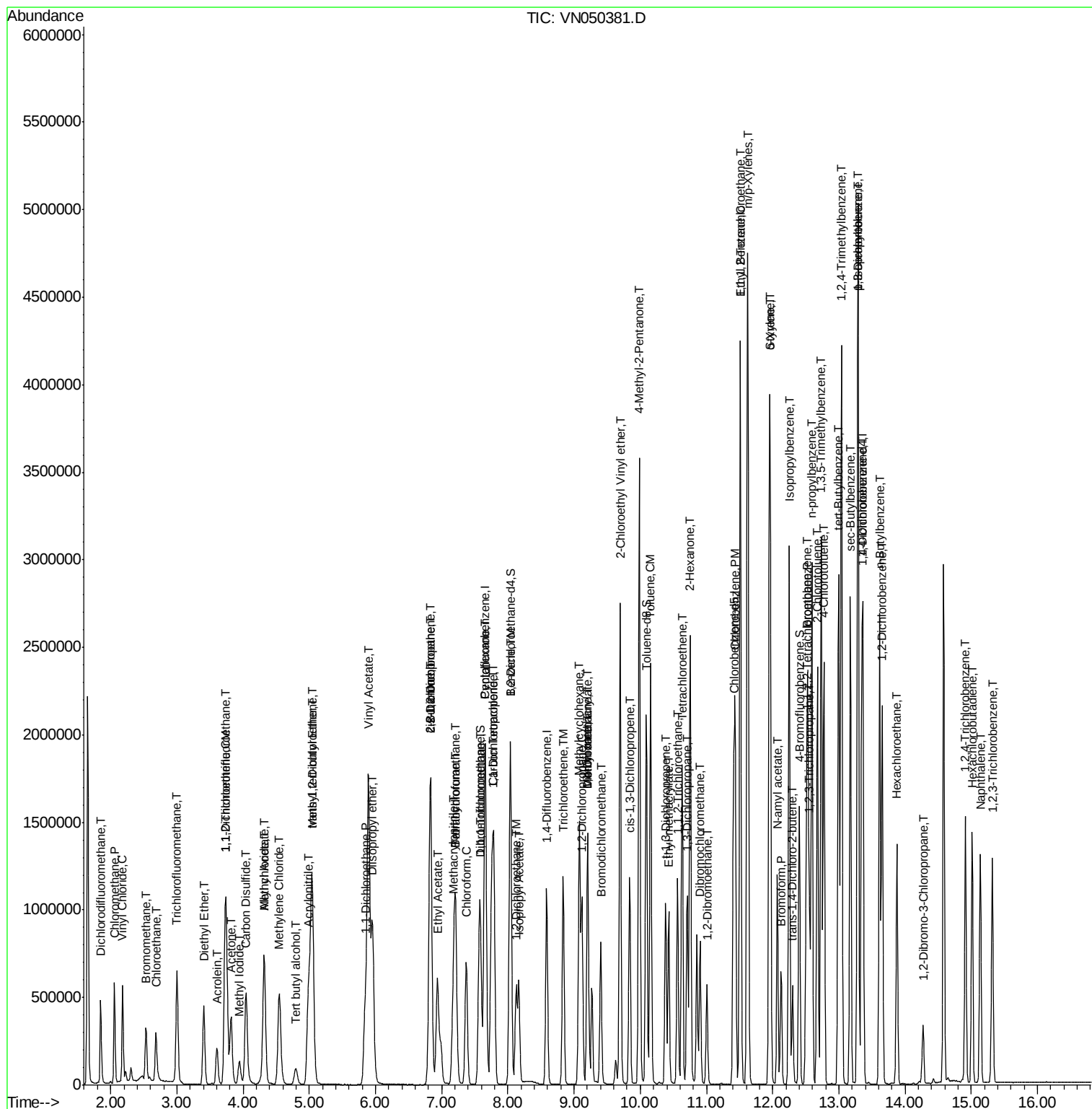
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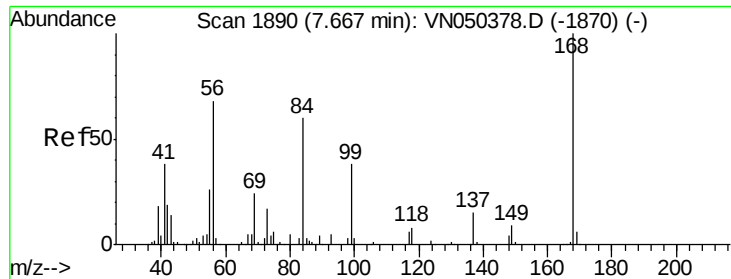
Instrument :
MSVOA_N
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Quant Title : SW846 8260
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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.66 min Scan# 1889

Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080618

Tot Ion:168 Resp: 723962

Ion Ratio Lower Upper

168 100

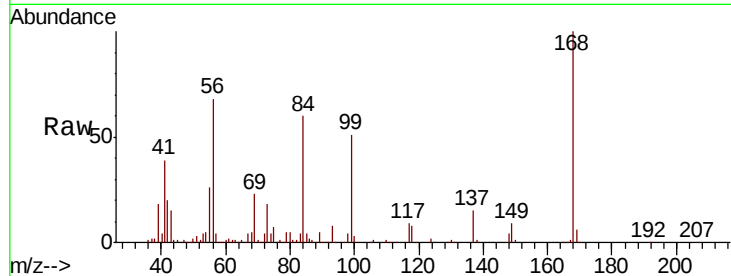
99 51.1 40.0 60.0

Manual Integrations

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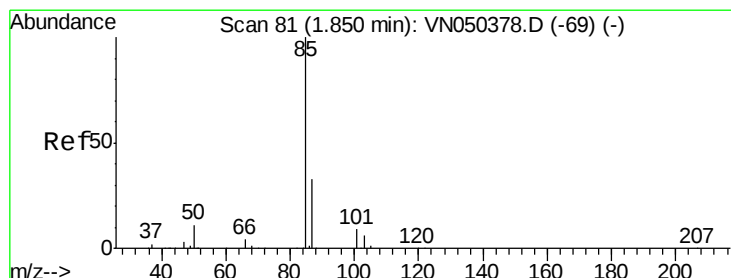
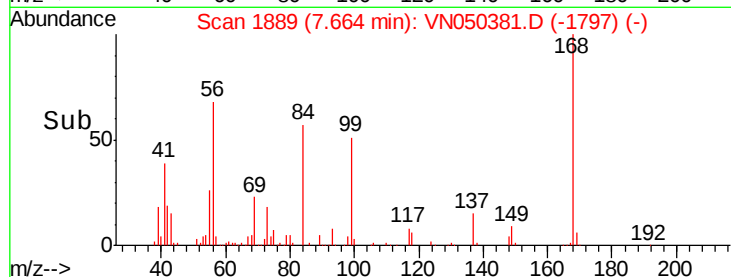
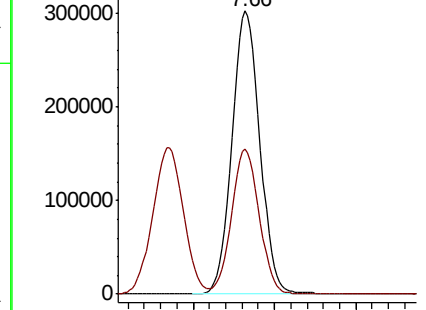
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Abundance Ion 167.90 (167.60 to 168.60): V

Ion 98.90 (98.60 to 99.60): VNO



#2

Dichlorodifluoromethane

Concen: 48.90 ug/l

RT: 1.85 min Scan# 81

Delta R.T. 0.00 min

Lab File: VN050381.D

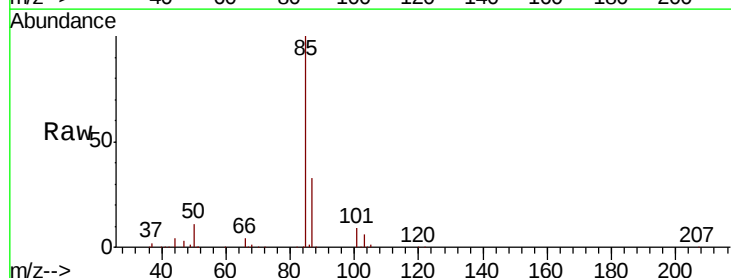
Acq: 6 Aug 2018 14:04

Tgt Ion: 85 Resp: 392981

Ion Ratio Lower Upper

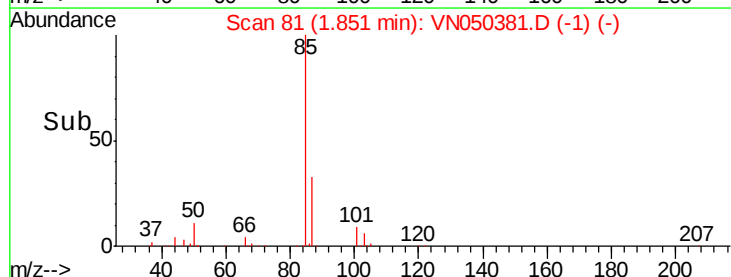
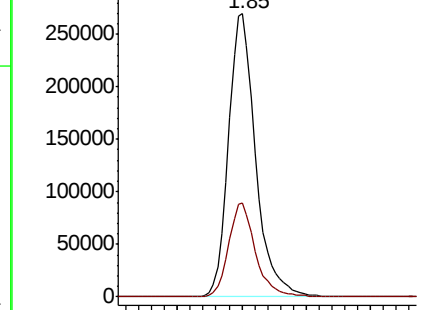
85 100

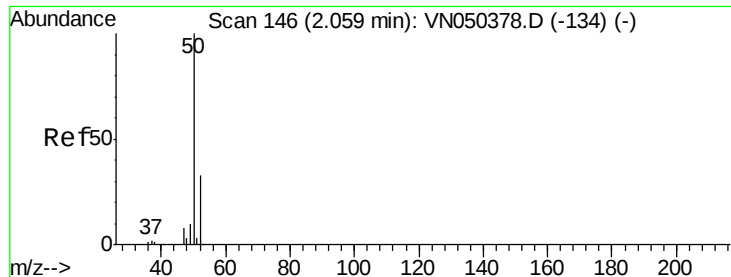
87 33.0 16.1 48.3



Abundance Ion 84.90 (84.60 to 85.60): VNO

Ion 86.90 (86.60 to 87.60): VNO





#3

Chloromethane

Concen: 52.23 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080618

Tot Ion: 50 Resp: 495352

Ion Ratio Lower Upper

50 100

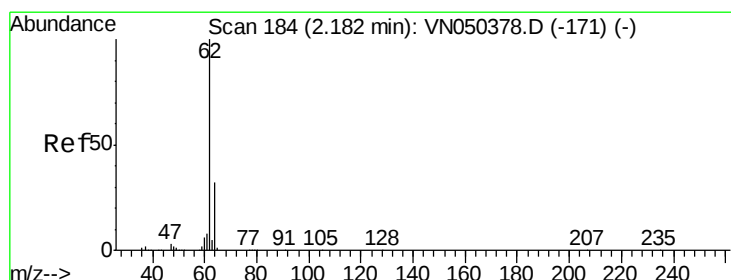
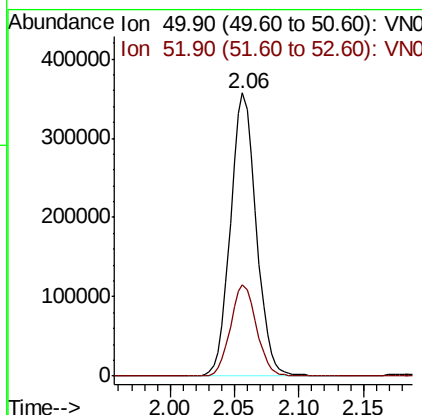
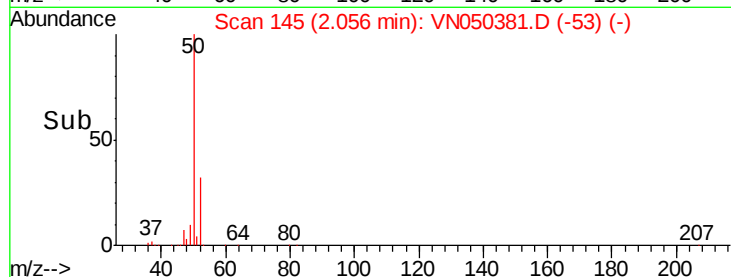
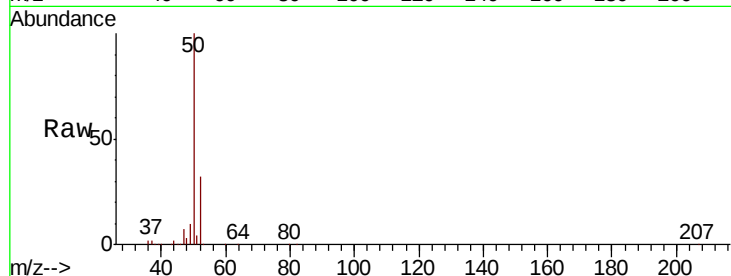
52 32.3 25.9 38.9

Manual Integrations

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#4

Vinyl Chloride

Concen: 48.21 ug/l

RT: 2.18 min Scan# 183

Delta R.T. -0.00 min

Lab File: VN050381.D

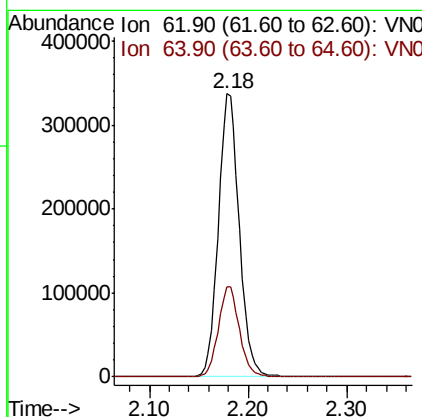
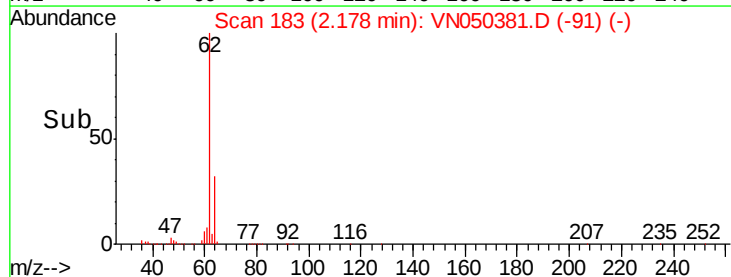
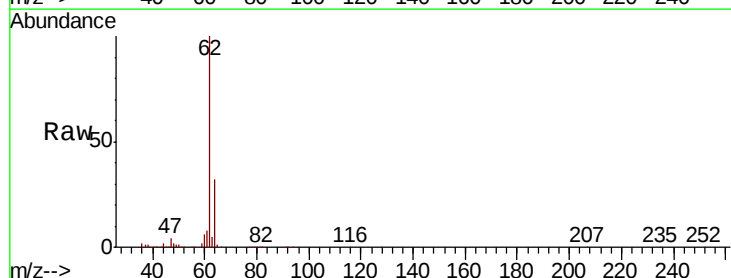
Acq: 6 Aug 2018 14:04

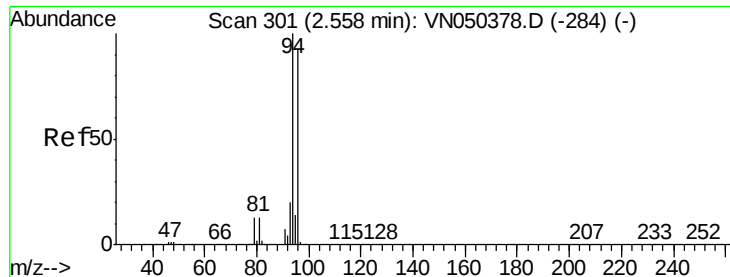
Tgt Ion: 62 Resp: 501448

Ion Ratio Lower Upper

62 100

64 31.7 24.7 37.1





#5

Bromomethane

Concen: 42.11 ug/l

RT: 2.53 min Scan# 293

Delta R.T. -0.02 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

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Tot Ion: 94 Resp: 212240

Ion Ratio Lower Upper

94 100

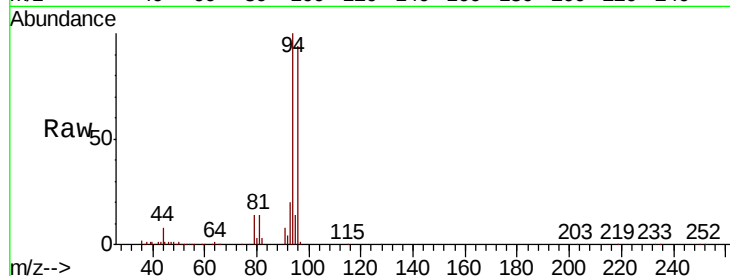
96 94.1 74.6 112.0

Manual Integrations

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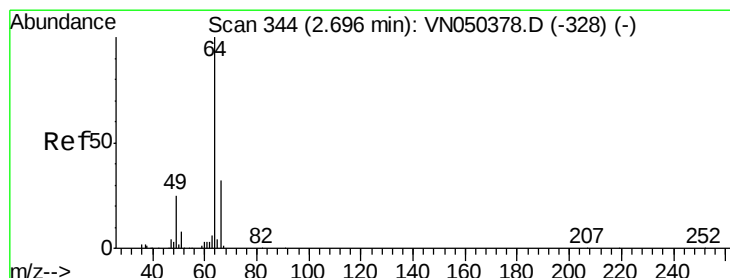
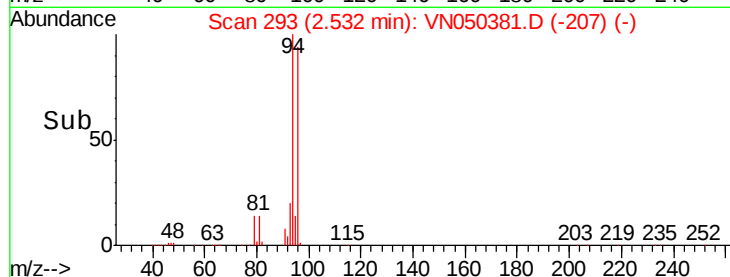
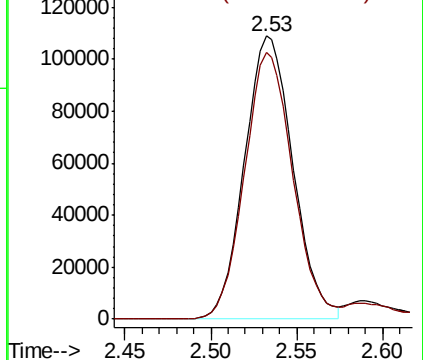
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Abundance Ion 93.90 (93.60 to 94.60): VNC

Ion 95.90 (95.60 to 96.60): VNC



#6

Chloroethane

Concen: 46.90 ug/l

RT: 2.68 min Scan# 340

Delta R.T. -0.01 min

Lab File: VN050381.D

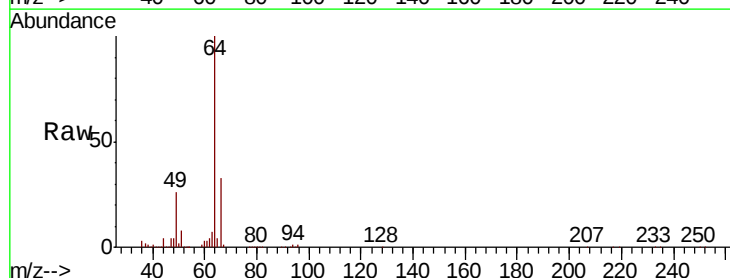
Acq: 6 Aug 2018 14:04

Tgt Ion: 64 Resp: 300630

Ion Ratio Lower Upper

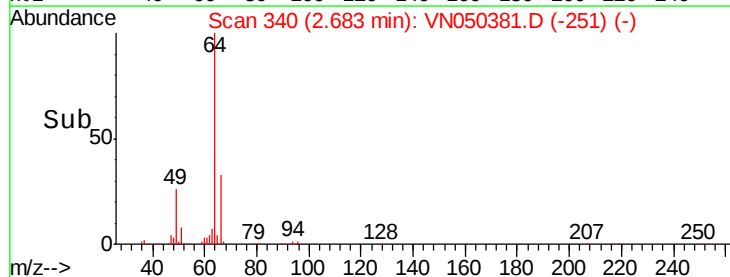
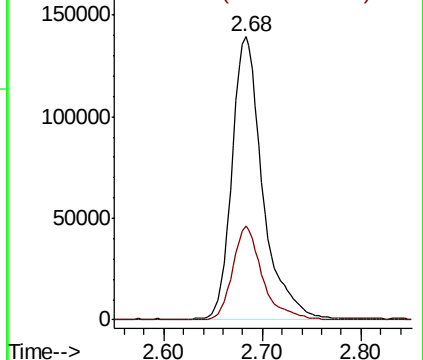
64 100

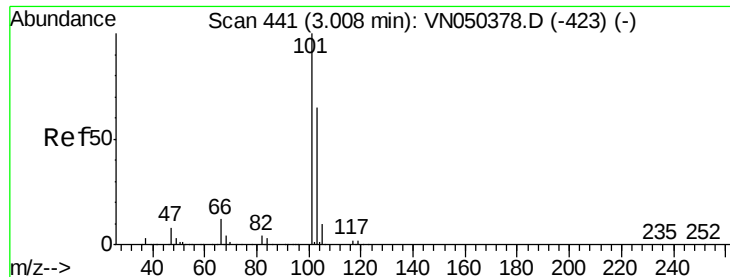
66 33.1 25.3 37.9



Abundance Ion 63.90 (63.60 to 64.60): VNC

Ion 65.90 (65.60 to 66.60): VNC





#7

Trichlorofluoromethane

Concen: 47.33 ug/l

RT: 3.00 min Scan# 439

Delta R.T. -0.01 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

ICV080618

Tot Ion: 101 Resp: 635898

Ion Ratio Lower Upper

101 100

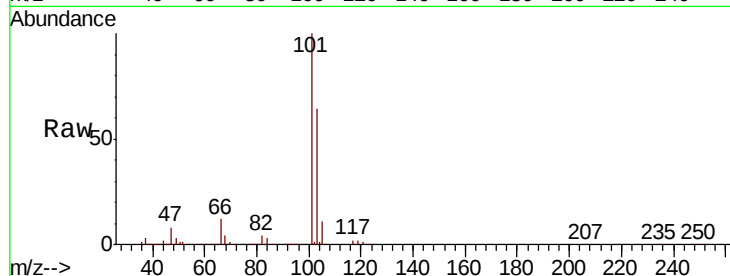
103 64.1 51.7 77.5

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8/7/2018 9:58:32 AM



Abundance Ion 100.90 (100.60 to 101.60): V

Ion 102.80 (102.50 to 103.50): V

3.00

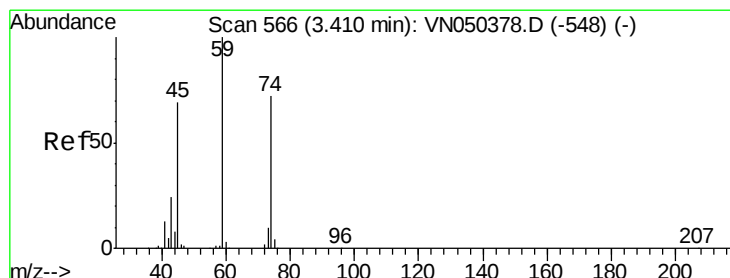
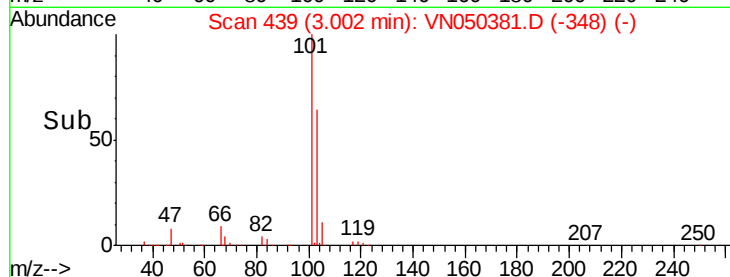
300000

200000

100000

0

Time-->



#8

Diethyl Ether

Concen: 48.21 ug/l

RT: 3.41 min Scan# 565

Delta R.T. -0.00 min

Lab File: VN050381.D

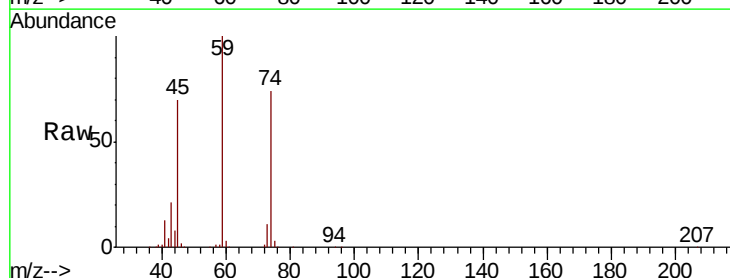
Acq: 6 Aug 2018 14:04

Tgt Ion: 74 Resp: 237497

Ion Ratio Lower Upper

74 100

45 94.9 47.6 142.8



Abundance Ion 74.00 (73.70 to 74.70): VNO

Ion 45.00 (44.70 to 45.70): VNO

120000

100000

80000

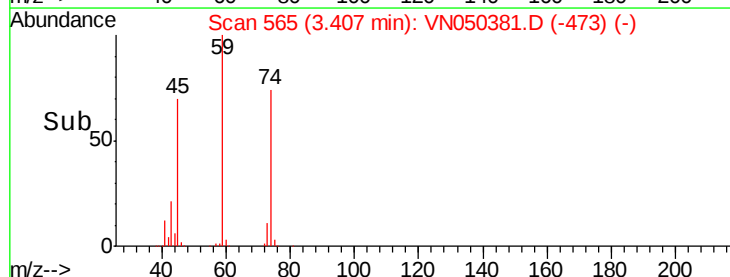
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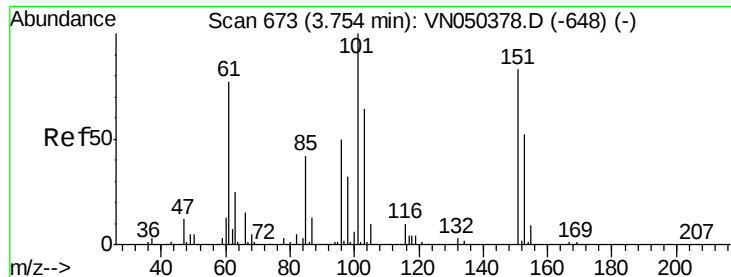
40000

20000

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 47.58 ug/l

RT: 3.75 min Scan# 671

Delta R.T. -0.01 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

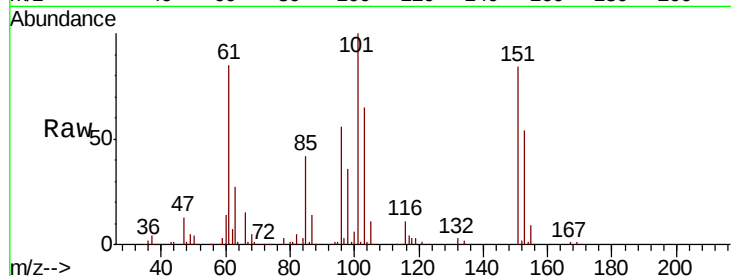
ClientSampleId :

ICVVN080618

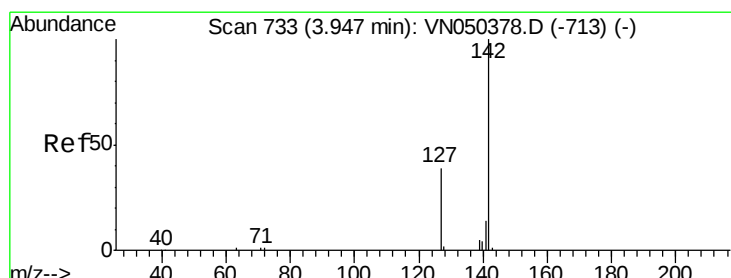
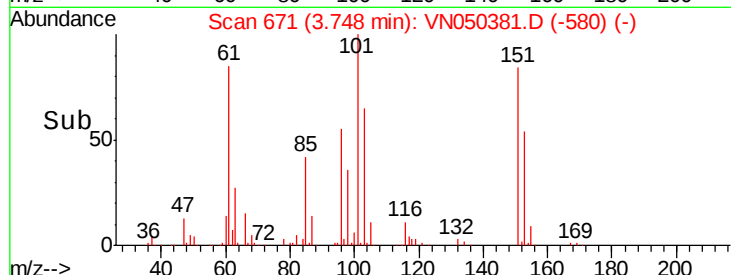
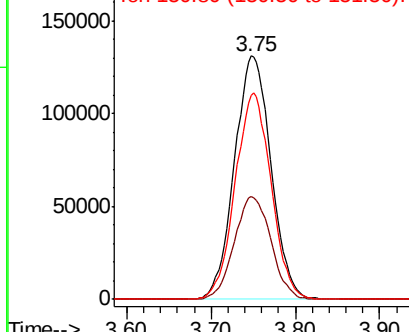
Tot Ion:	101	Resp:	395017
Ion Ratio	Lower	Upper	
101	100		
85	42.4	34.2	51.2
151	83.4	66.3	99.5

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



#10

Methyl Iodide

Concen: 61.44 ug/l

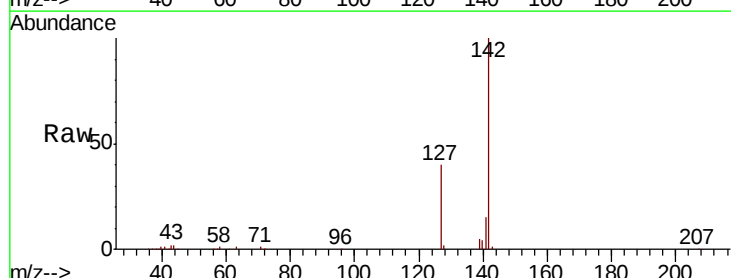
RT: 3.94 min Scan# 732

Delta R.T. -0.00 min

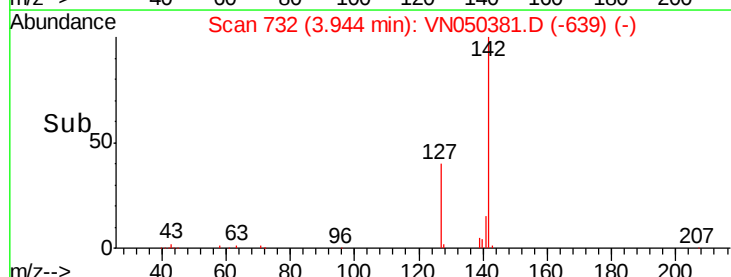
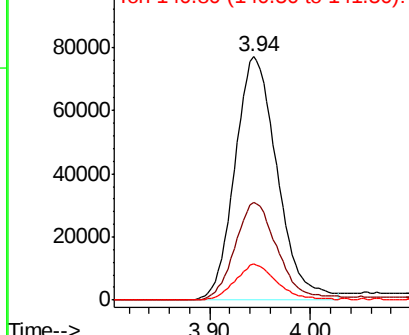
Lab File: VN050381.D

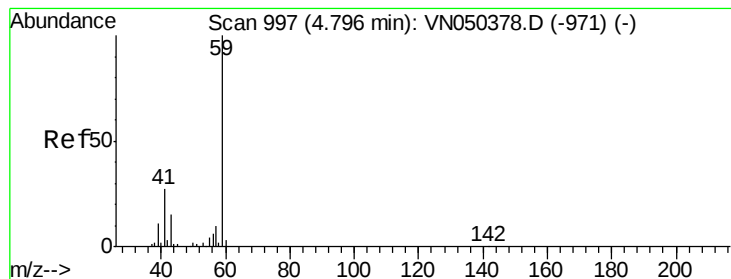
Acq: 6 Aug 2018 14:04

Tgt Ion:	142	Resp:	224757
Ion Ratio	Lower	Upper	
142	100		
127	40.0	33.4	50.2
141	14.5	11.6	17.4



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





#11

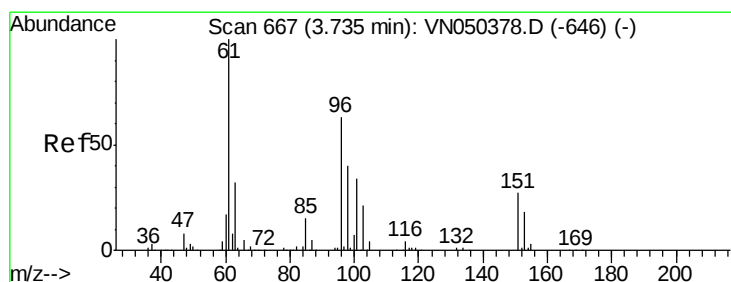
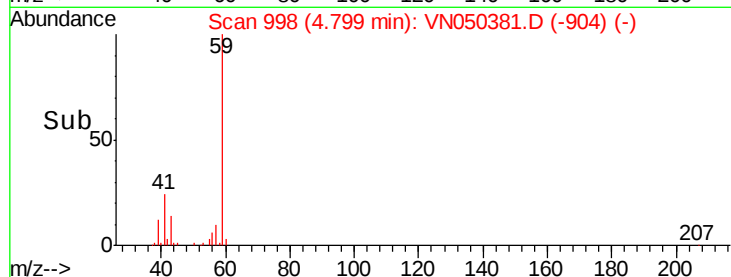
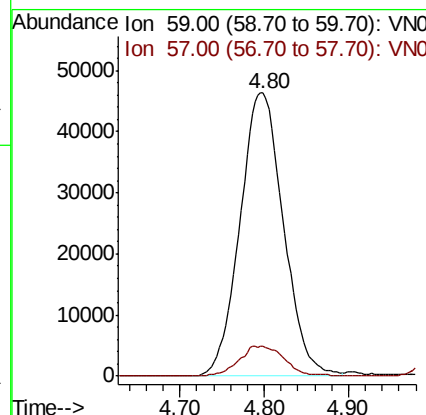
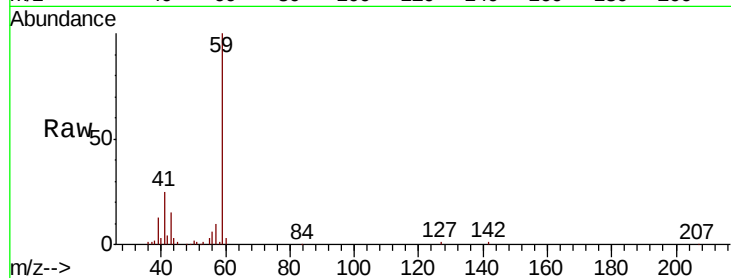
Tert butyl alcohol
Concen: 213.60 ug/l
RT: 4.80 min Scan# 998
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampled :
ICVVN080618

Tot Ion	Ratio	Lower	Upper
59	100		
57	10.8	8.5	12.7

Manual Integrations
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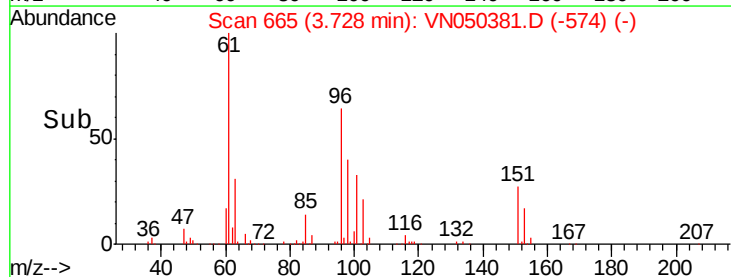
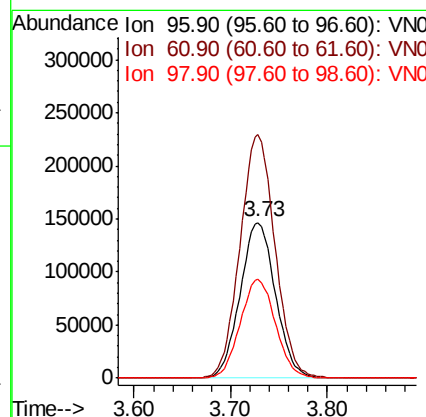
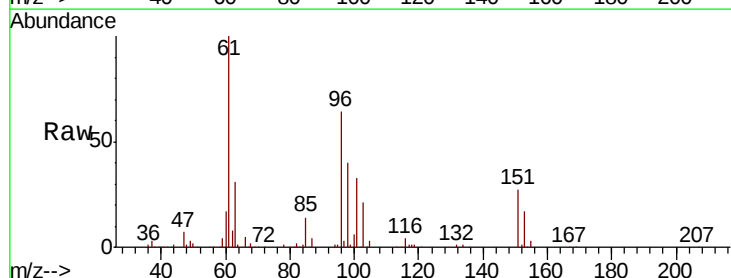
MMDadoda
8/7/2018 9:58:32 AM

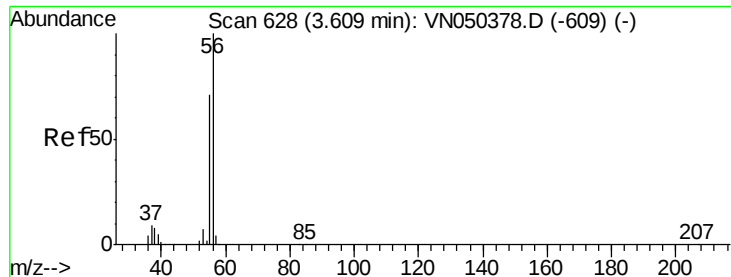


#12

1,1-Dichloroethene
Concen: 47.51 ug/l
RT: 3.73 min Scan# 665
Delta R.T. -0.01 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Lower	Upper
96	100		
61	156.3	124.4	186.6
98	63.3	48.3	72.5





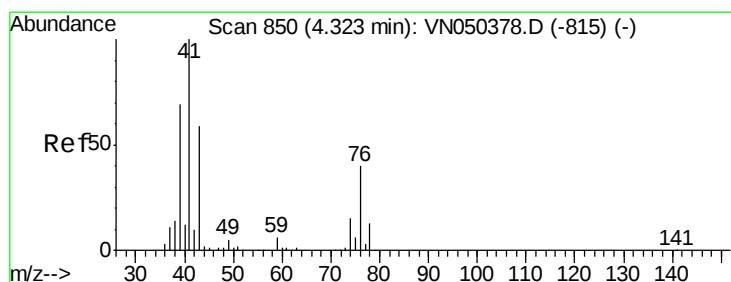
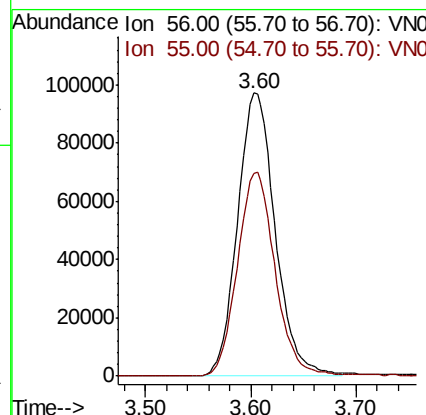
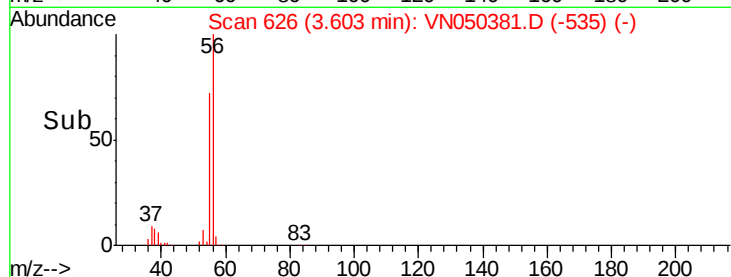
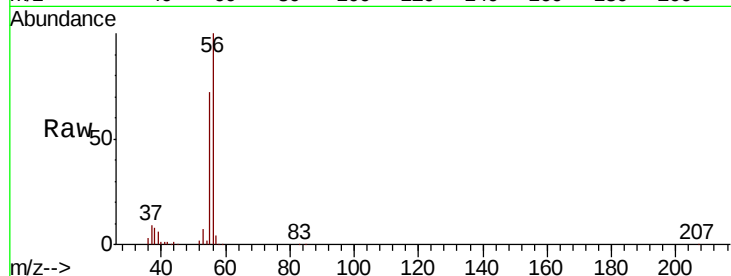
#13
Acrolein
Concen: 239.38 ug/l
RT: 3.60 min Scan# 626
Delta R.T. -0.01 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion	Ratio	Lower	Upper
56	100		
55	72.0	55.8	83.6

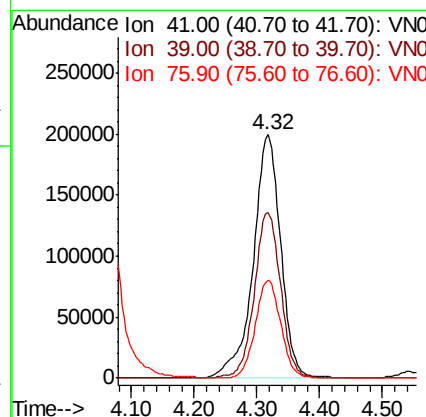
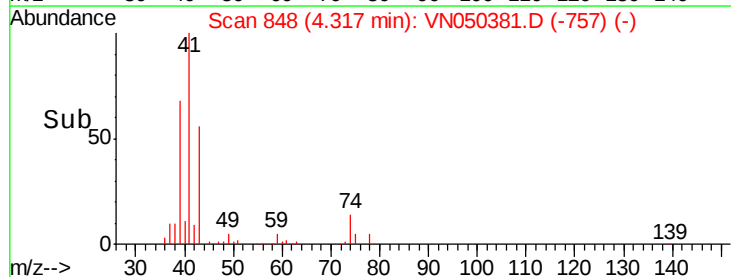
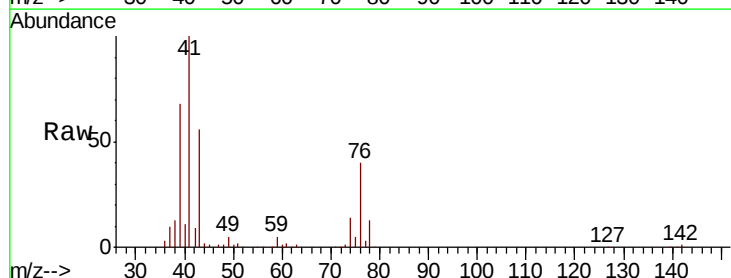
Manual Integrations
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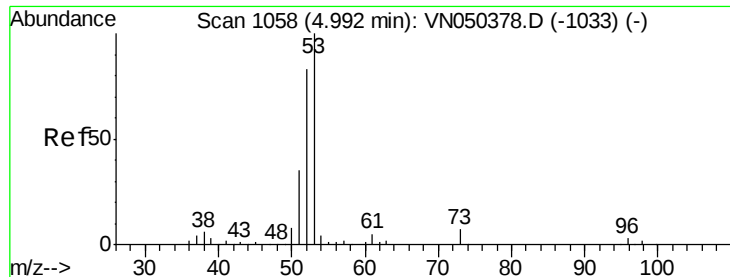
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#14
Allyl chloride
Concen: 48.34 ug/l
RT: 4.32 min Scan# 848
Delta R.T. -0.01 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Lower	Upper
41	100		
39	65.3	54.2	81.4
76	36.8	29.0	43.6





#15

Acrylonitrile

Concen: 231.11 ug/l

RT: 4.99 min Scan# 1056

Delta R.T. -0.01 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

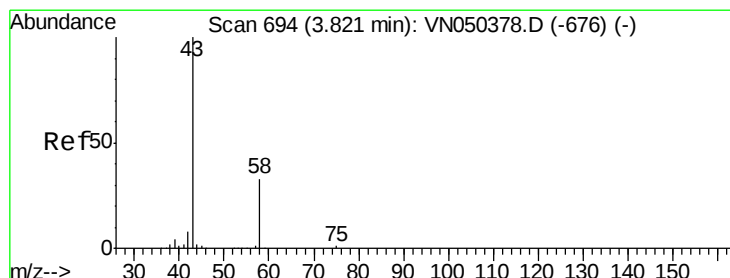
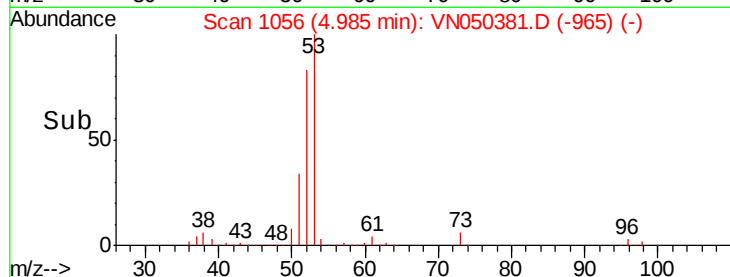
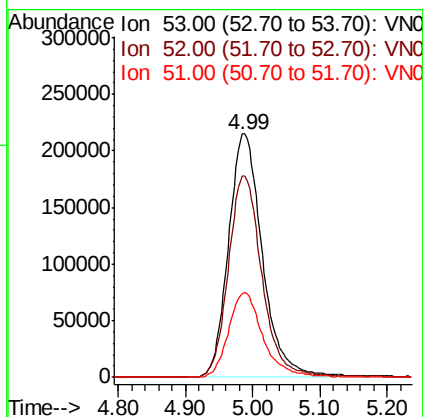
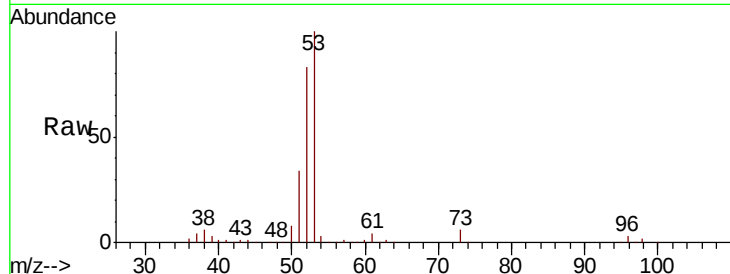
ClientSampleId :

ICVVN080618

Tot Ion:	53	Resp:	752237
Ion	Ratio	Lower	Upper
53	100		
52	82.1	66.2	99.2
51	35.5	29.3	43.9

Manual Integrations
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#16

Acetone

Concen: 217.80 ug/l

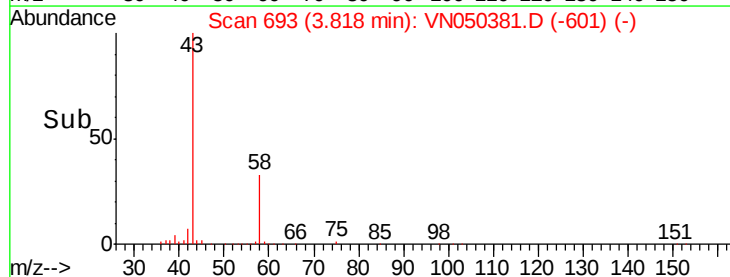
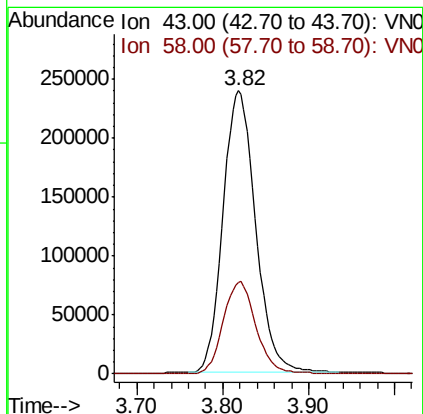
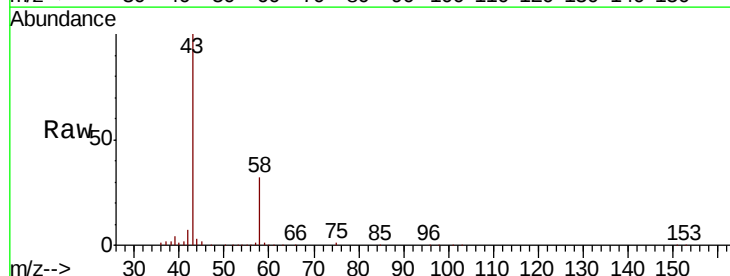
RT: 3.82 min Scan# 693

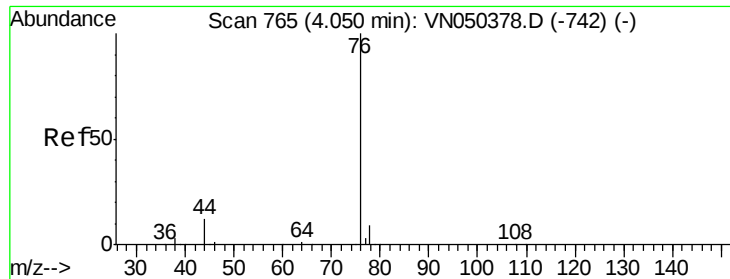
Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Tgt Ion:	43	Resp:	628399
Ion	Ratio	Lower	Upper
43	100		
58	32.5	25.8	38.8





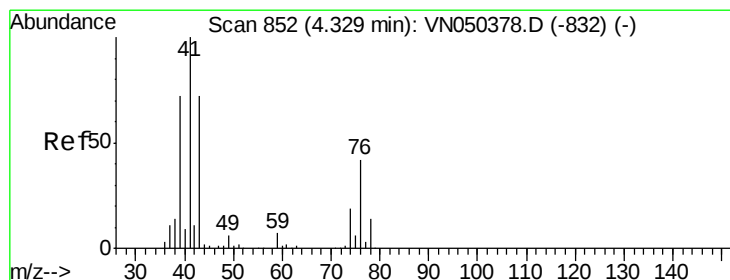
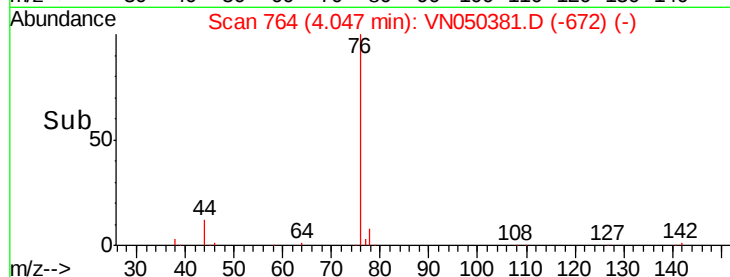
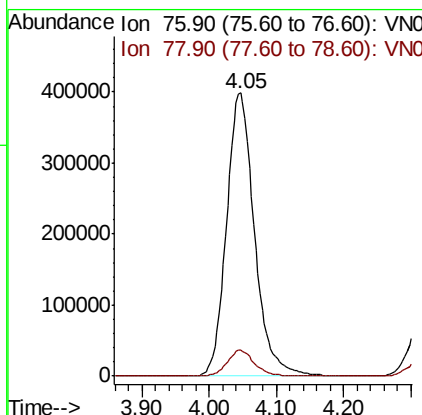
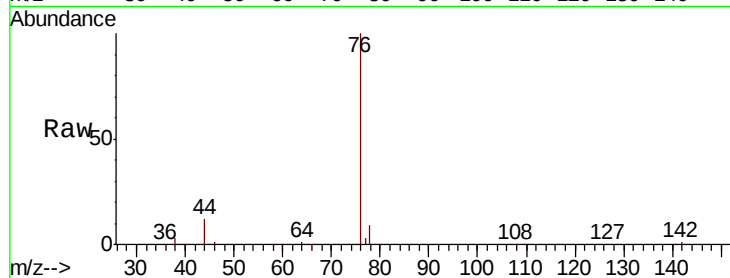
#17
Carbon Disulfide
Concen: 45.23 ug/l
RT: 4.05 min Scan# 764
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion: 76 Resp: 1151120
Ion Ratio Lower Upper
76 100
78 9.1 7.3 10.9

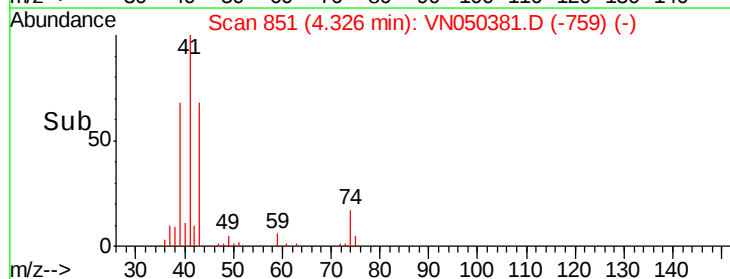
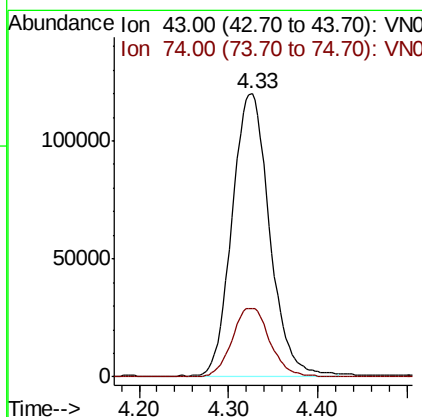
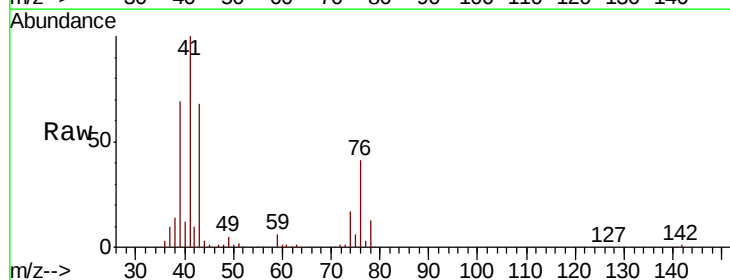
Manual Integrations
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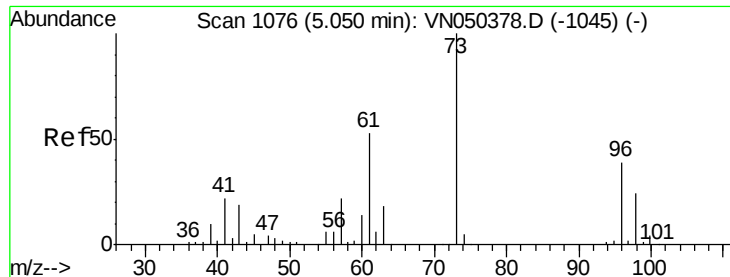
MMDadoda
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#18
Methyl Acetate
Concen: 46.31 ug/l
RT: 4.33 min Scan# 851
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion: 43 Resp: 347252
Ion Ratio Lower Upper
43 100
74 24.8 19.2 28.8





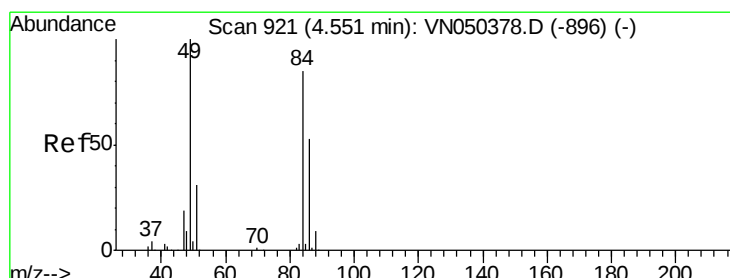
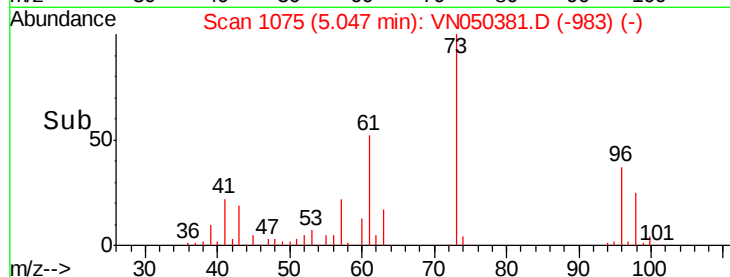
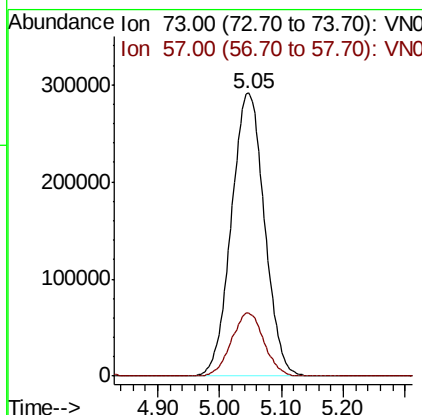
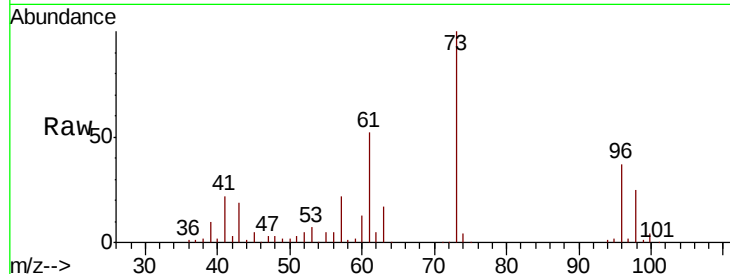
#19
Methyl tert-butyl Ether
Concen: 48.69 ug/l
RT: 5.05 min Scan# 1075
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampled :
ICVVN080618

Tot Ion: 73 Resp: 1081629
Ion Ratio Lower Upper
73 100
57 22.3 18.0 27.0

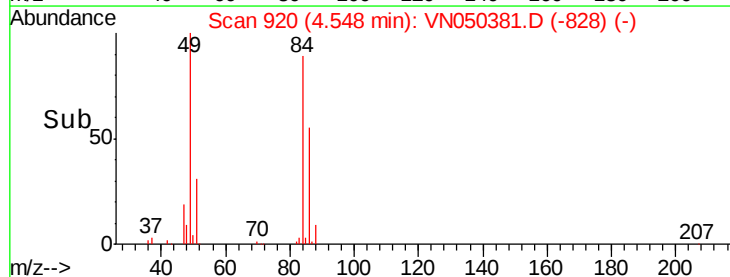
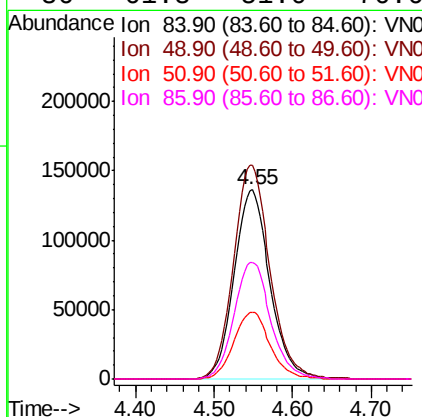
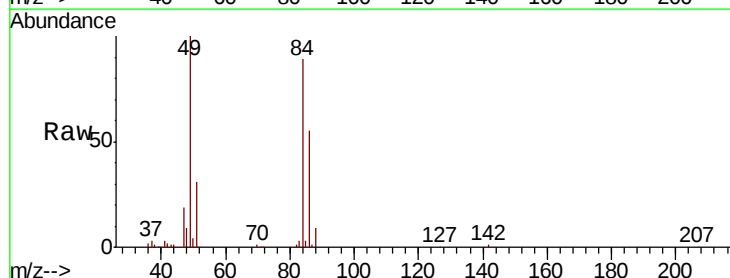
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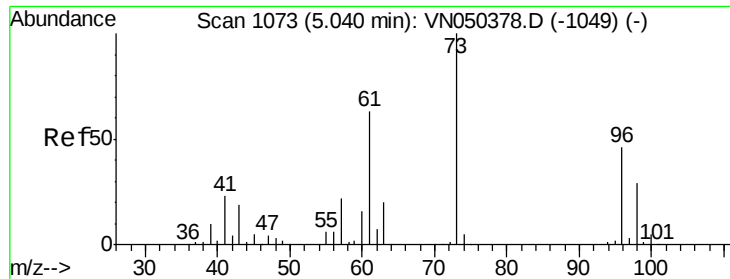
MMDadoda
8/7/2018 9:58:32 AM



#20
Methylene Chloride
Concen: 49.08 ug/l
RT: 4.55 min Scan# 920
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion: 84 Resp: 433193
Ion Ratio Lower Upper
84 100
49 112.9 94.8 142.2
51 35.4 28.3 42.5
86 61.8 51.0 76.6





#21

trans-1,2-Dichloroethene

Concen: 46.98 ug/l

RT: 5.04 min Scan# 1072

Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampled :

ICVVN080618

Tot Ion: 96 Resp: 397868

Ion Ratio Lower Upper

96 100

61 138.8 110.7 166.1

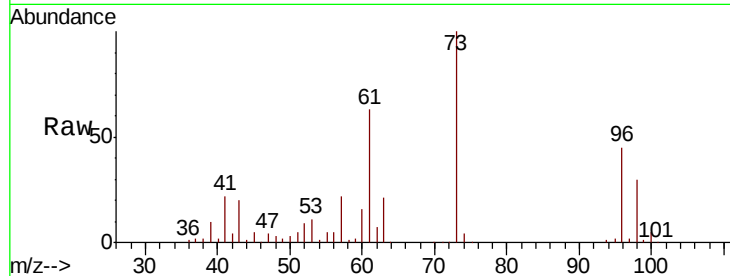
98 65.2 51.6 77.4

Manual Integrations

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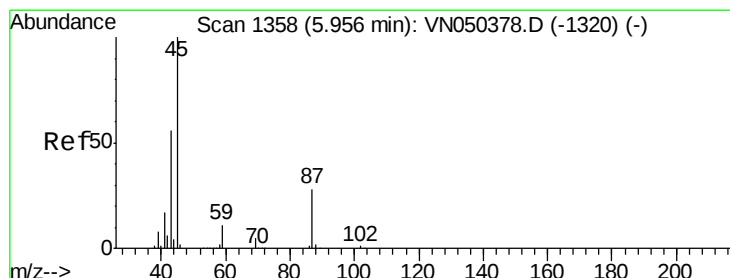
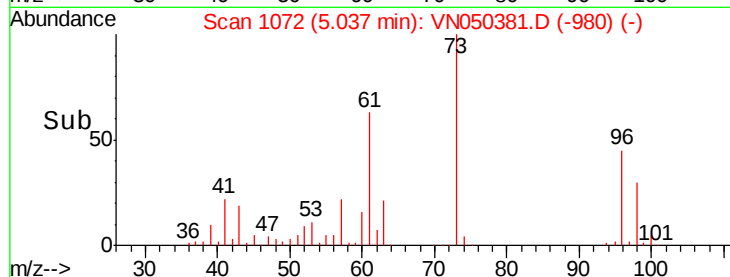
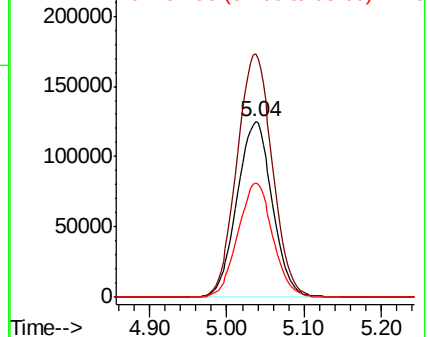


Abundance

Ion 95.90 (95.60 to 96.60): VN0

Ion 60.90 (60.60 to 61.60): VN0

Ion 97.90 (97.60 to 98.60): VN0



#22

Diisopropyl ether

Concen: 49.53 ug/l

RT: 5.95 min Scan# 1356

Delta R.T. -0.01 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Tgt Ion: 45 Resp: 1271860

Ion Ratio Lower Upper

45 100

43 56.7 45.7 68.5

87 28.5 22.7 34.1

59 11.9 9.5 14.3

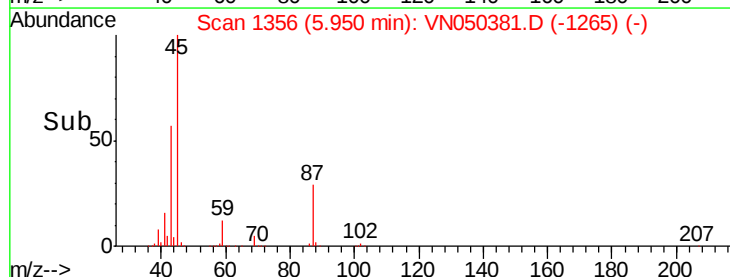
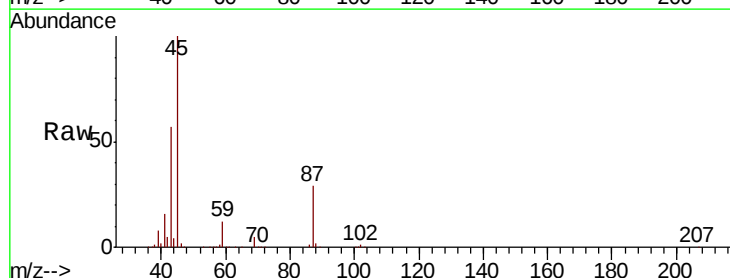
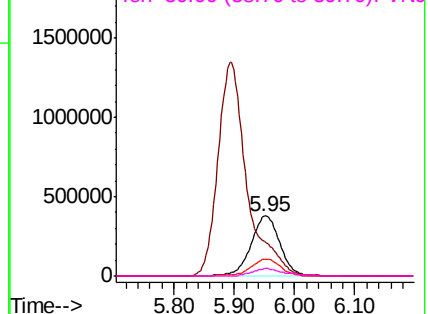
Abundance

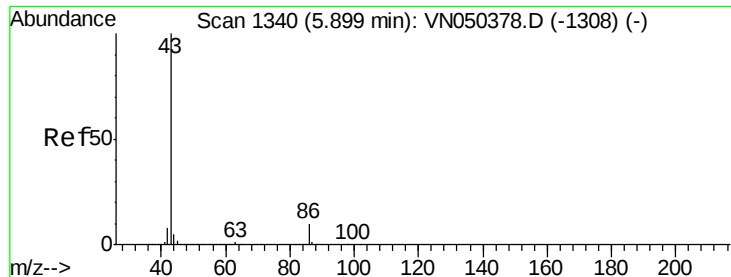
Ion 45.00 (44.70 to 45.70): VN0

Ion 43.00 (42.70 to 43.70): VN0

Ion 87.00 (86.70 to 87.70): VN0

Ion 59.00 (58.70 to 59.70): VN0





#23

Vinyl Acetate

Concen: 244.17 ug/l

RT: 5.90 min Scan# 1339

Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080618

Tot Ion: 43 Resp: 4473093

Ion Ratio Lower Upper

43 100

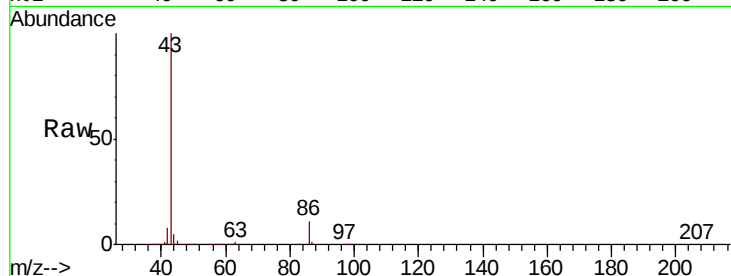
86 10.7 8.6 13.0

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 86.00 (85.70 to 86.70): VN0

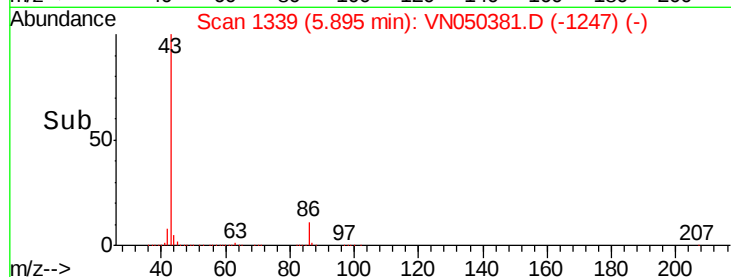
1500000

1000000

500000

0

Time-->



#24

1,1-Dichloroethane

Concen: 46.66 ug/l

RT: 5.84 min Scan# 1323

Delta R.T. -0.01 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

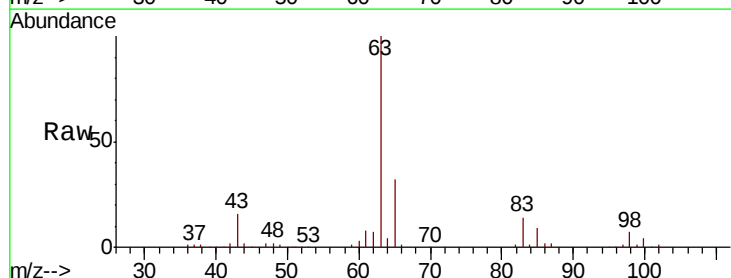
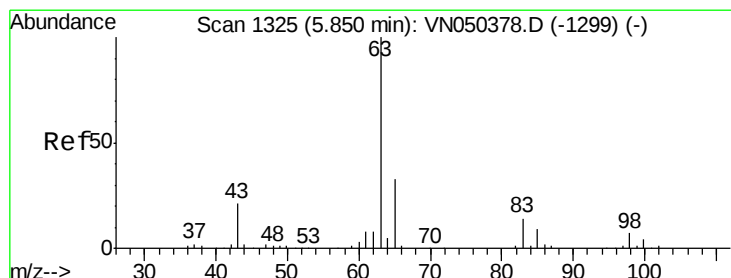
Tgt Ion: 63 Resp: 735166

Ion Ratio Lower Upper

63 100

98 6.6 3.3 9.8

100 4.0 2.1 6.3



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 97.90 (97.60 to 98.60): VN0

Ion 99.90 (99.60 to 100.60): VN0

300000

250000

200000

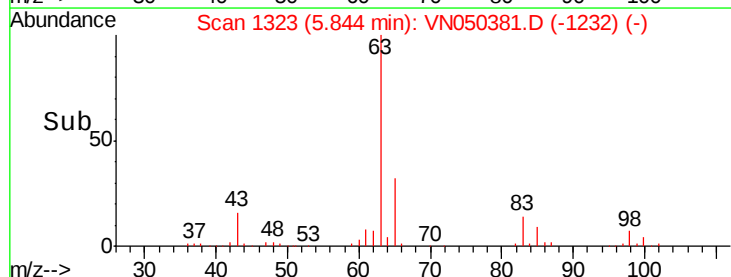
150000

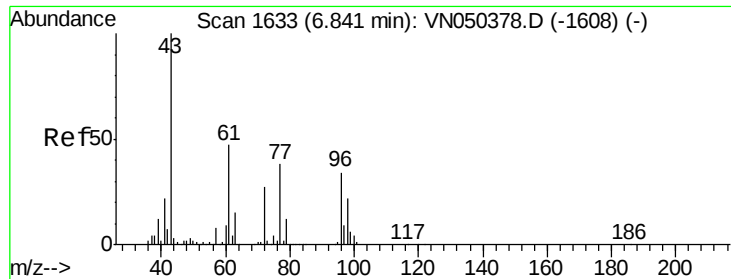
100000

50000

0

Time-->





#25

2-Butanone

Concen: 224.60 ug/l

RT: 6.84 min Scan# 1632

Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Tot Ion: 43 Resp: 1076536

Ion Ratio Lower Upper

43 100

72 28.0 21.5 32.3

Instrument :

MSVOA_N

ClientSampleId :

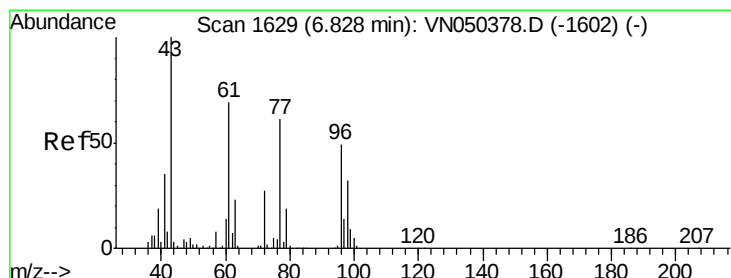
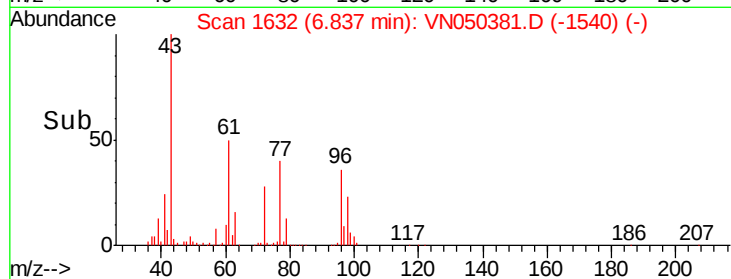
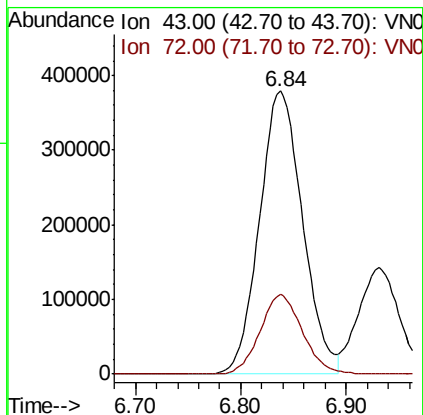
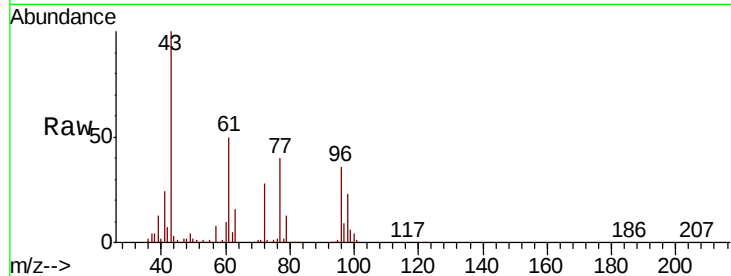
ICVVN080618

Manual Integrations

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8/7/2018 9:58:32 AM



#26

2,2-Dichloropropane

Concen: 46.77 ug/l

RT: 6.82 min Scan# 1627

Delta R.T. -0.01 min

Lab File: VN050381.D

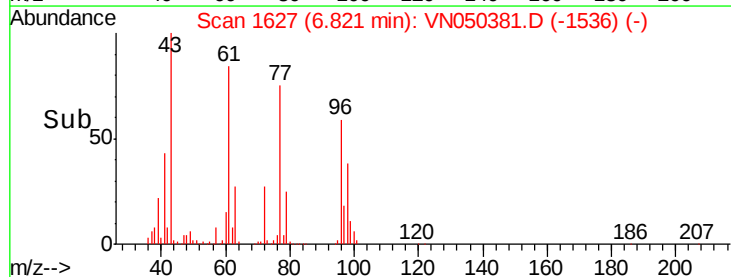
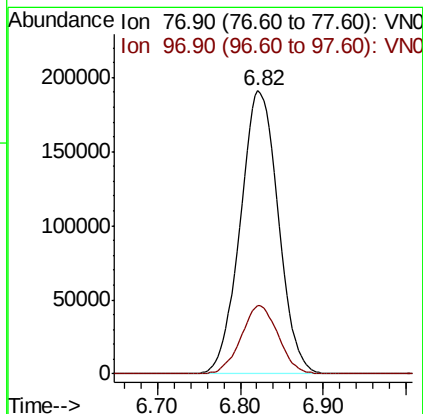
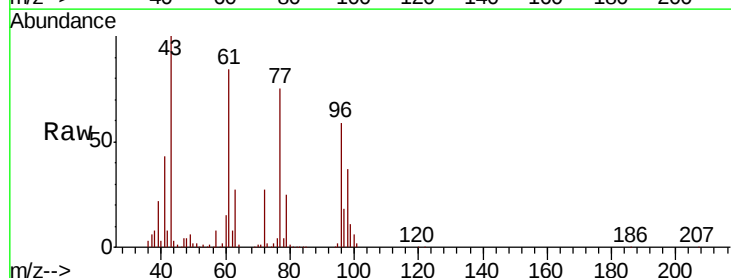
Acq: 6 Aug 2018 14:04

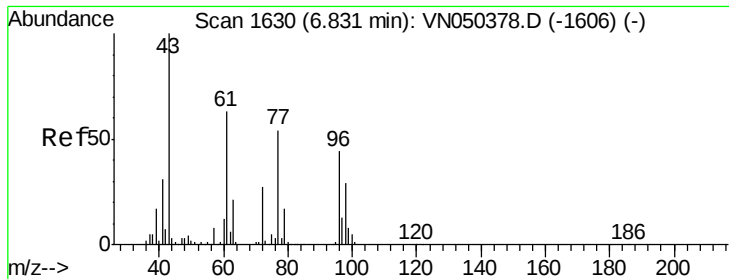
Tgt Ion: 77 Resp: 607411

Ion Ratio Lower Upper

77 100

97 23.6 11.8 35.3





#27

cis-1,2-Dichloroethene

Concen: 48.02 ug/l

RT: 6.83 min Scan# 1629

Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

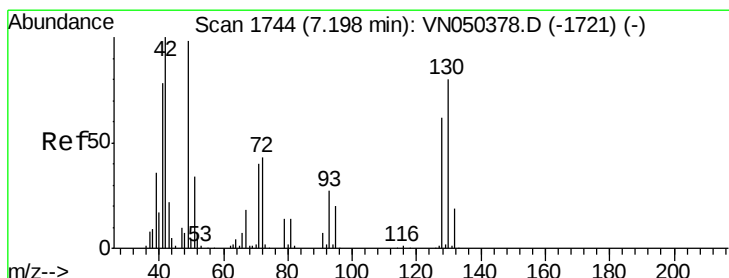
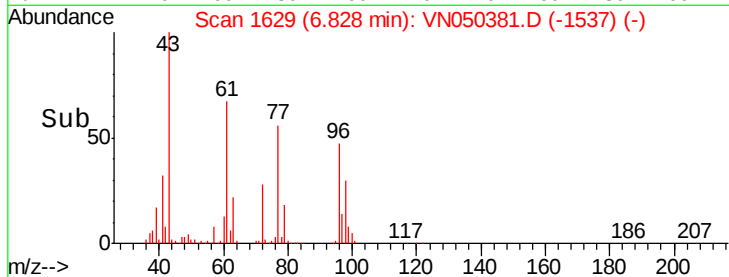
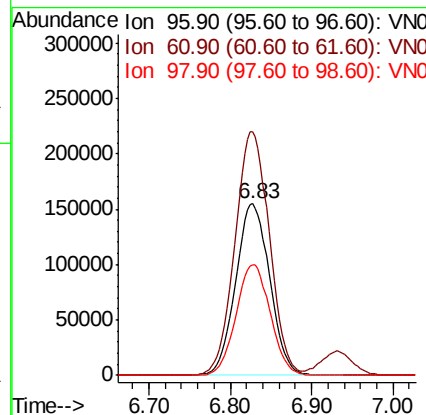
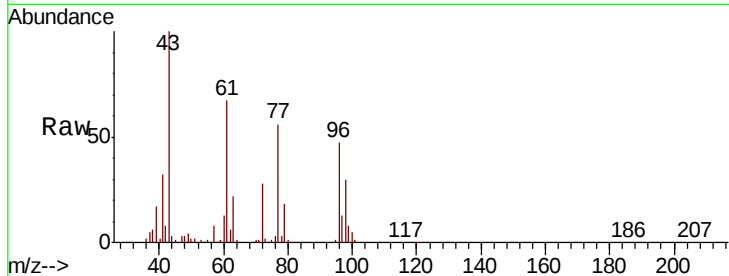
ClientSampleId :

ICVVN080618

Tot Ion:	96	Resp:	450785
Ion Ratio	Lower	Upper	
96	100		
61	143.3	0.0	285.0
98	64.5	0.0	129.2

Manual Integrations
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#28

Bromochloromethane

Concen: 49.41 ug/l

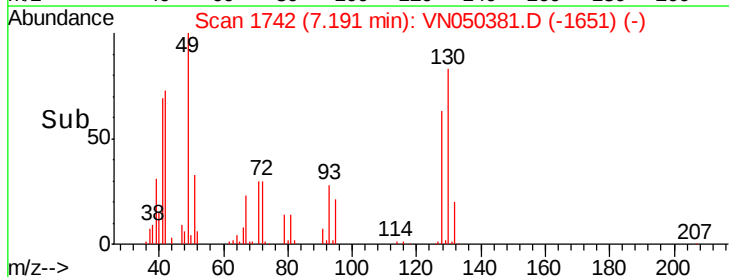
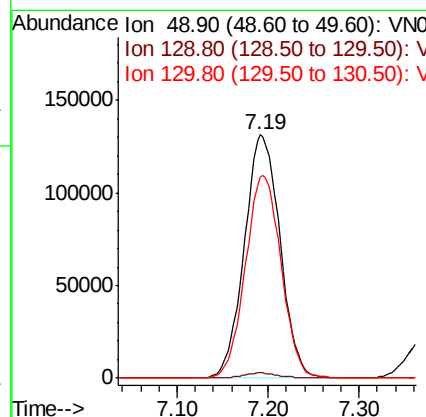
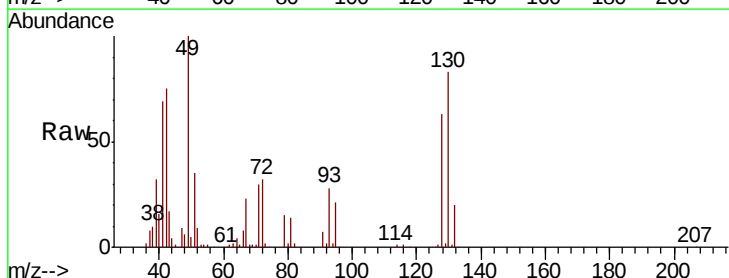
RT: 7.19 min Scan# 1742

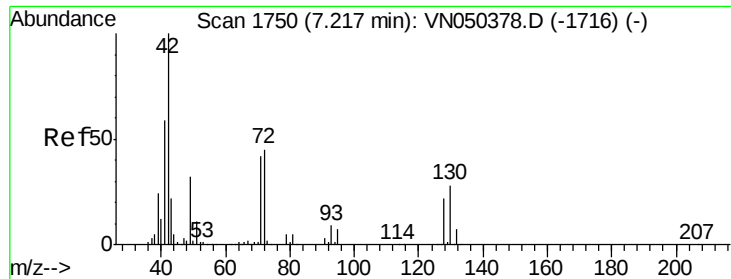
Delta R.T. -0.01 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Tgt Ion:	49	Resp:	358332
Ion Ratio	Lower	Upper	
49	100		
129	2.0	0.0	4.0
130	83.3	66.3	99.5





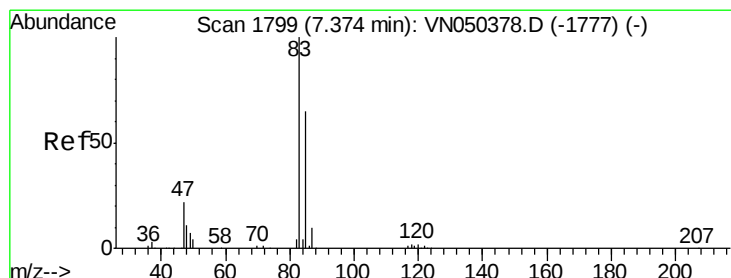
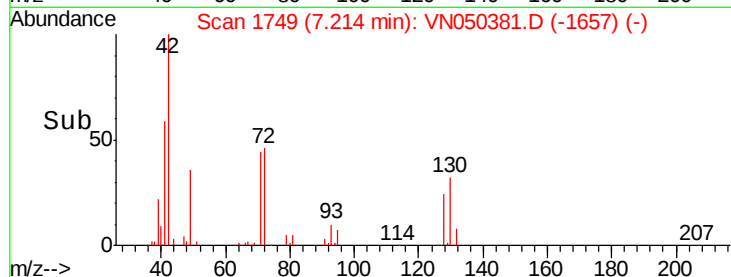
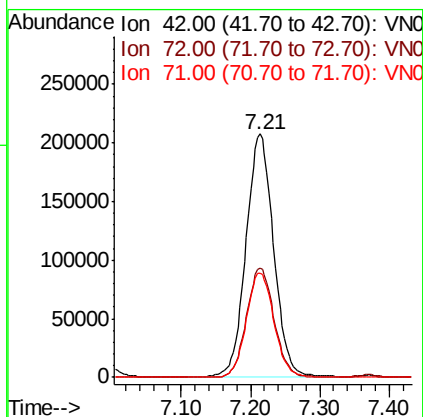
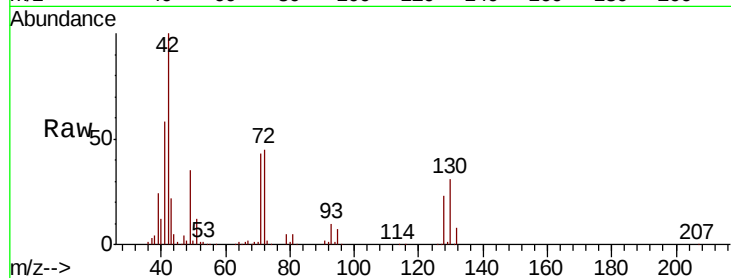
#29
Tetrahydrofuran
Concen: 223.81 ug/l
RT: 7.21 min Scan# 1749
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion	Ratio	Lower	Upper
42	100		
72	44.9	35.9	53.9
71	42.8	33.7	50.5

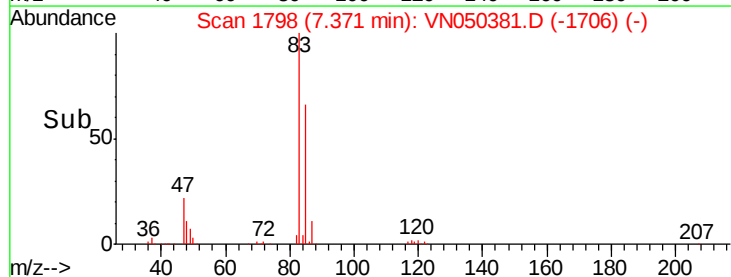
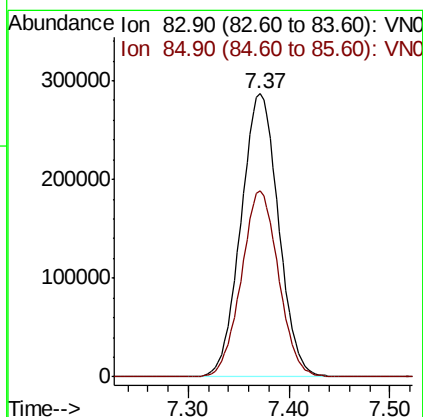
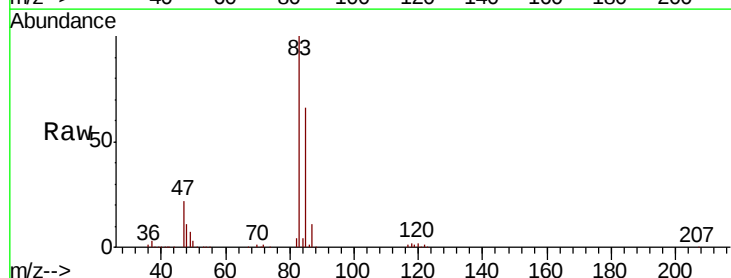
Manual Integrations
APPROVED

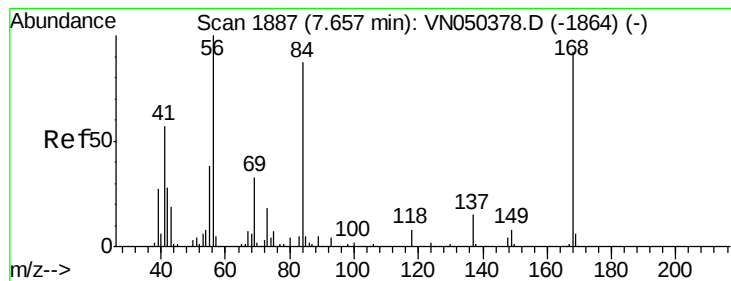
MMDadoda
8/7/2018 9:58:32 AM



#30
Chloroform
Concen: 47.01 ug/l
RT: 7.37 min Scan# 1798
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.7	52.5	78.7





#31

Cyclohexane

Concen: 49.17 ug/l

RT: 7.65 min Scan# 1885

Delta R.T. -0.01 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

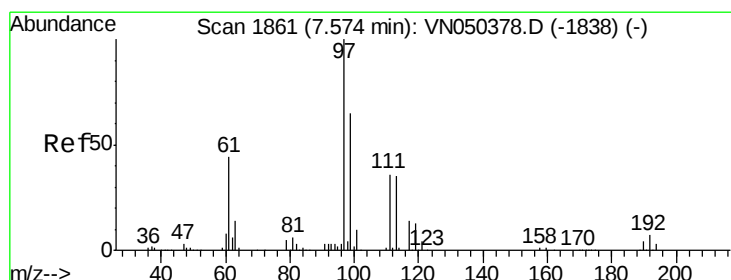
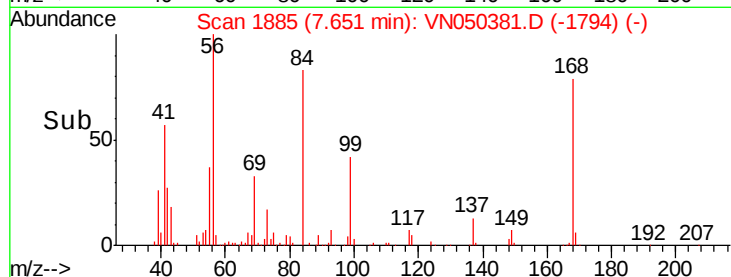
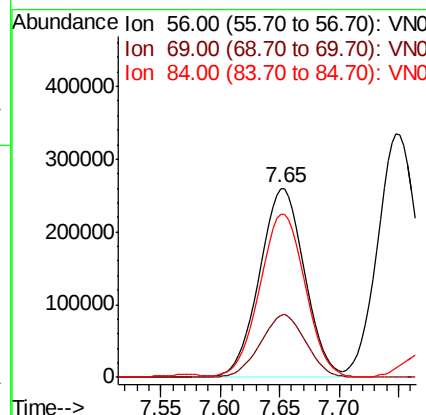
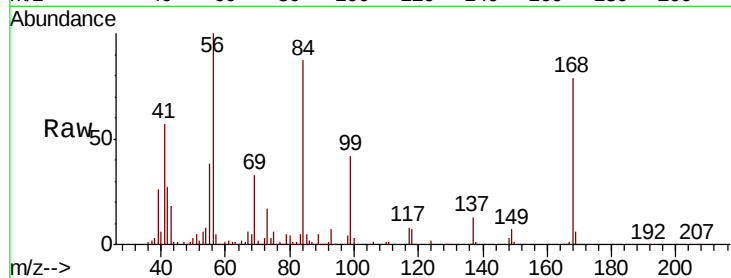
ClientSampleID :

ICVVN080618

Tot Ion:	56	Resp:	682021
Ion	Ratio	Lower	Upper
56	100		
69	32.7	26.2	39.4
84	85.4	67.4	101.0

Manual Integrations
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#32

1,1,1-Trichloroethane

Concen: 47.62 ug/l

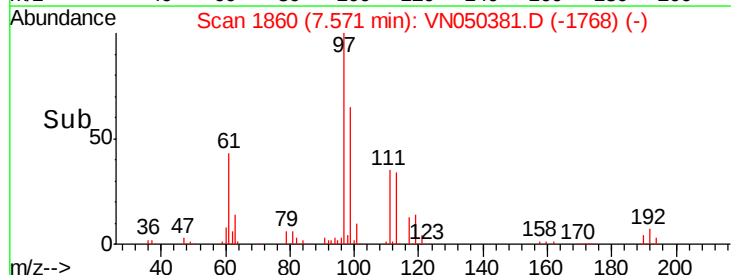
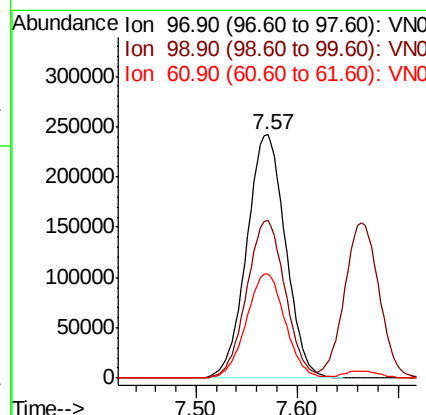
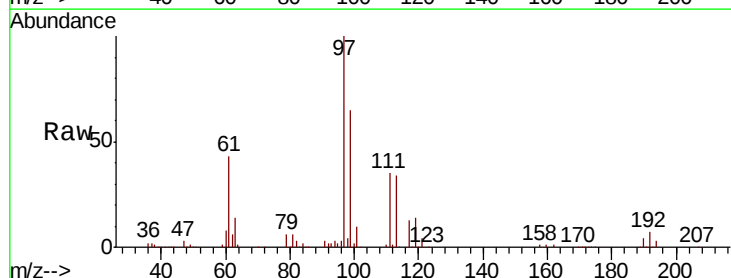
RT: 7.57 min Scan# 1860

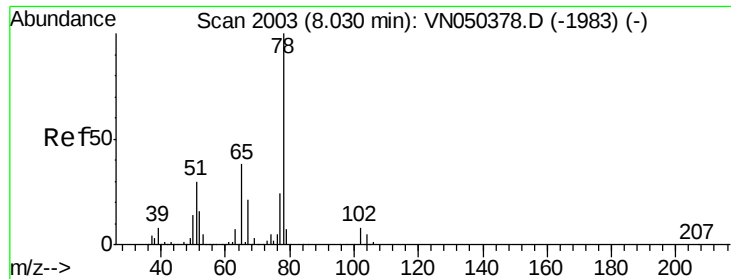
Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Tgt Ion:	97	Resp:	644186
Ion	Ratio	Lower	Upper
97	100		
99	64.4	51.4	77.0
61	42.9	35.4	53.0





#33

1,2-Dichloroethane-d4

Concen: 45.81 ug/l

RT: 8.03 min Scan# 2002

Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080618

Tot Ion: 65 Resp: 443117

Ion Ratio Lower Upper

65 100

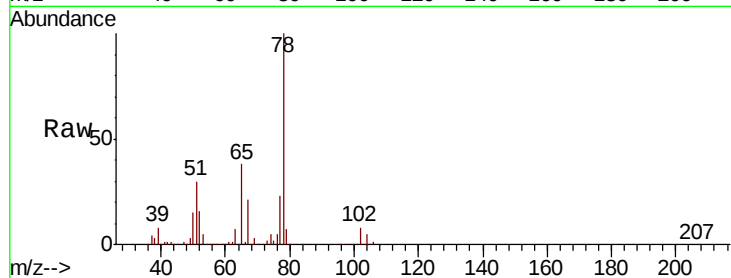
67 54.5 0.0 108.4

Manual Integrations

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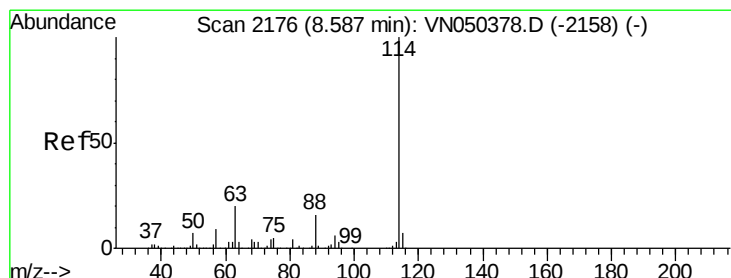
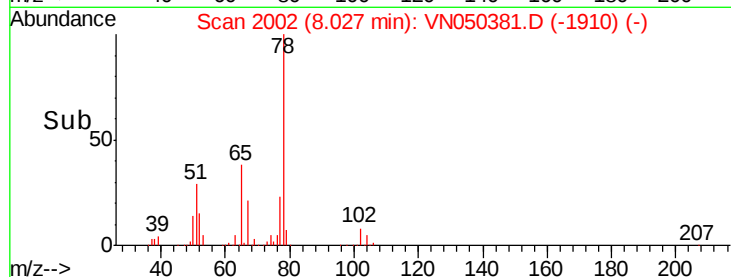
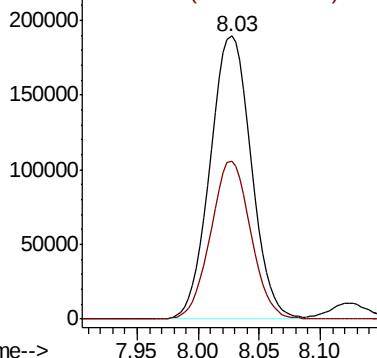
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Abundance Ion 64.90 (64.60 to 65.60): VN0

Ion 66.90 (66.60 to 67.60): VN0



#34

1,4-Difluorobenzene

Concen: 50.00 ug/l

RT: 8.58 min Scan# 2175

Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

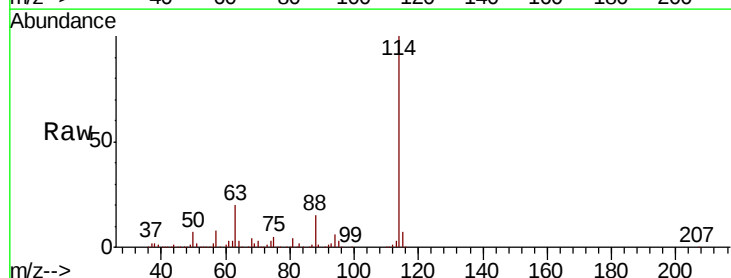
Tgt Ion:114 Resp: 1048873

Ion Ratio Lower Upper

114 100

63 19.8 0.0 40.0

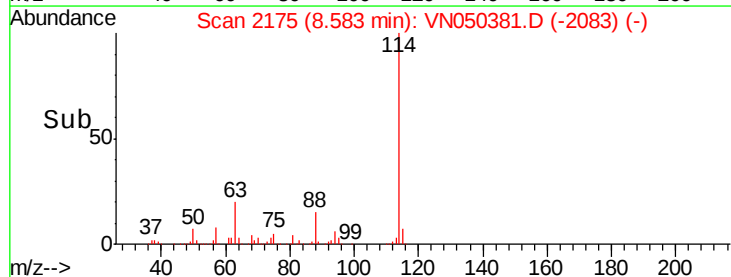
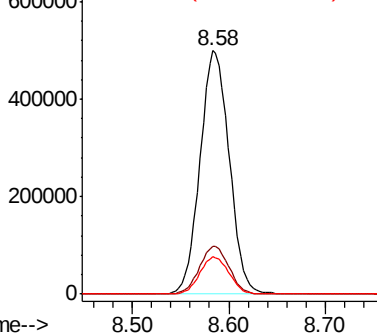
88 15.2 0.0 31.2

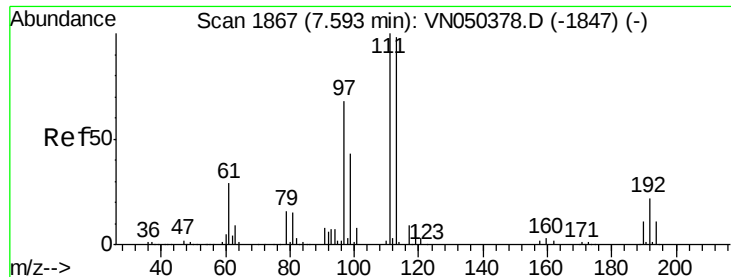


Abundance Ion 113.90 (113.60 to 114.60): V

Ion 63.00 (62.70 to 63.70): VN0

Ion 87.90 (87.60 to 88.60): VN0





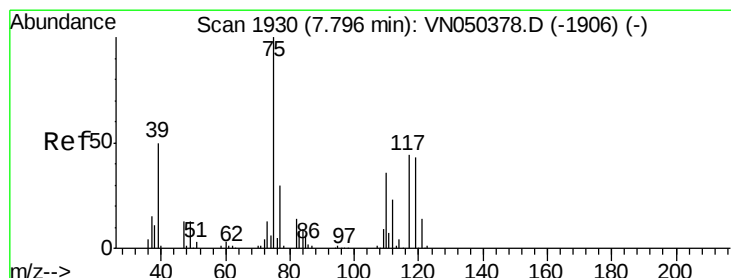
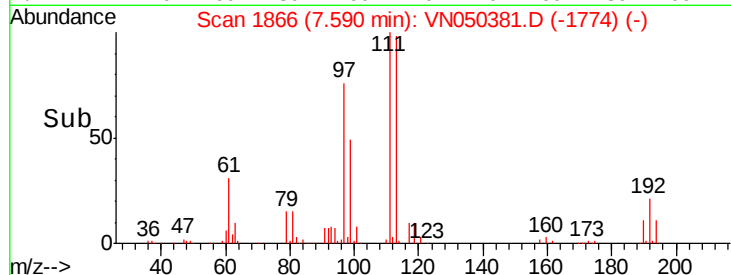
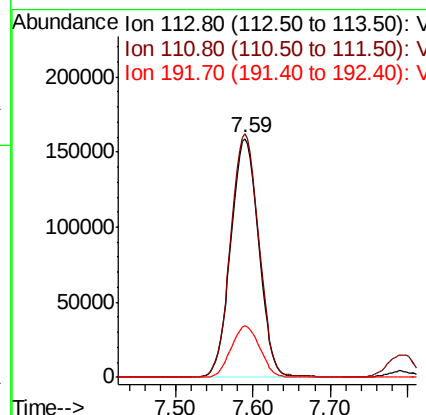
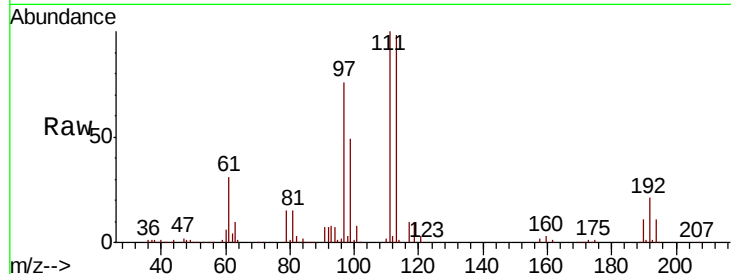
#35
 Dibromofluoromethane
 Concen: 47.25 ug/l
 RT: 7.59 min Scan# 1866
 Delta R.T. -0.00 min
 Lab File: VN050381.D
 Acq: 6 Aug 2018 14:04

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080618

Tot Ion	Ratio	Resp	Lower	Upper
113	100	397641		
111	103.0	80.7	121.1	
192	22.0	17.8	26.6	

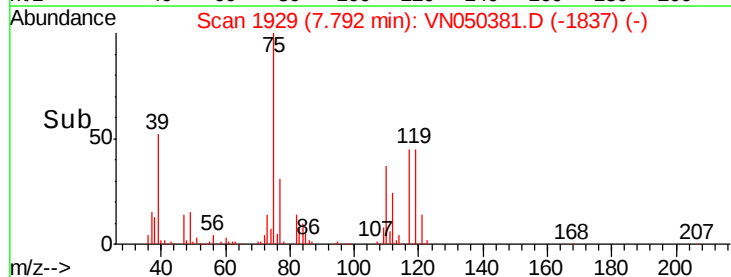
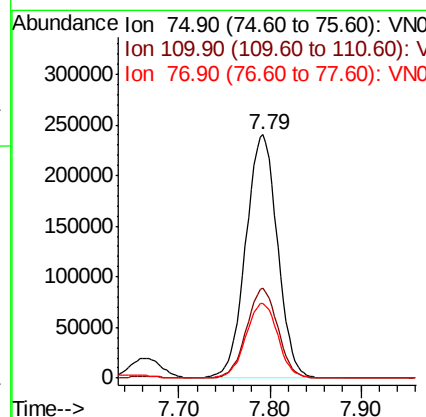
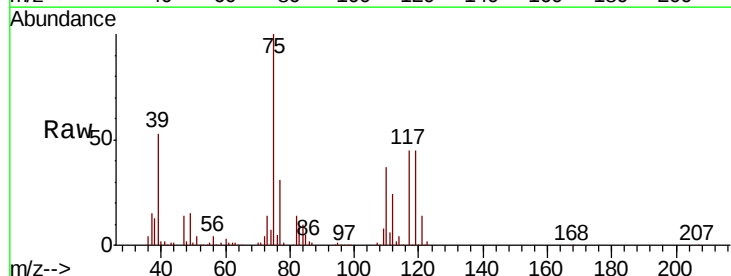
Manual Integrations
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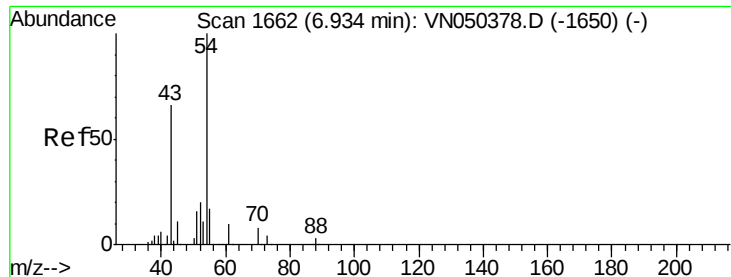
MMDadoda
 8/7/2018 9:58:32 AM



#36
 1,1-Dichloropropene
 Concen: 50.30 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050381.D
 Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Resp	Lower	Upper
75	100	579685		
110	36.5	18.4	55.2	
77	31.2	25.3	37.9	





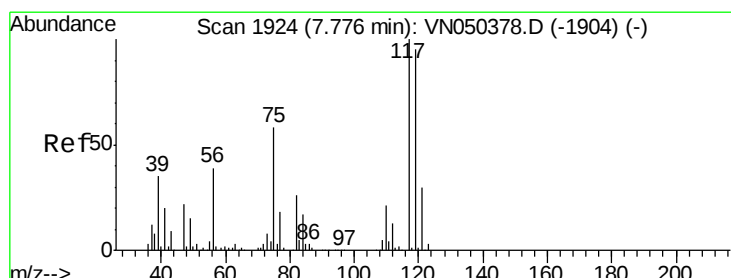
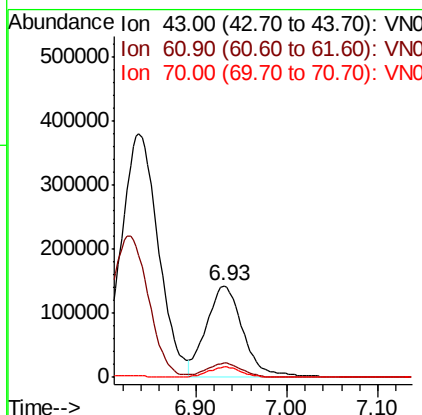
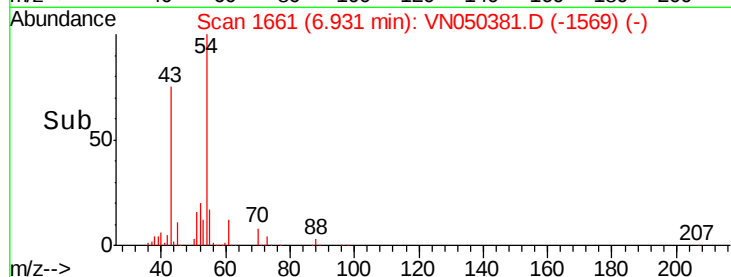
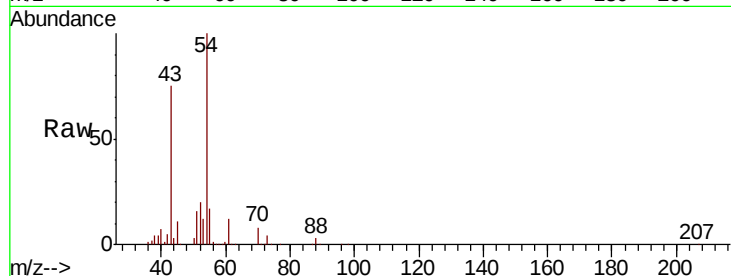
#37
Ethyl Acetate
Concen: 47.63 ug/l
RT: 6.93 min Scan# 1661
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion	Ratio	Resp	Lower	Upper
43	100			
61	14.8	11.8	17.8	
70	10.7	8.4	12.6	

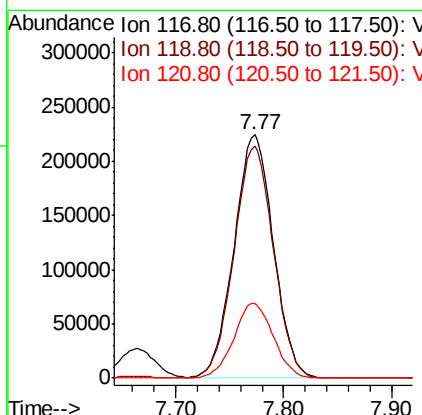
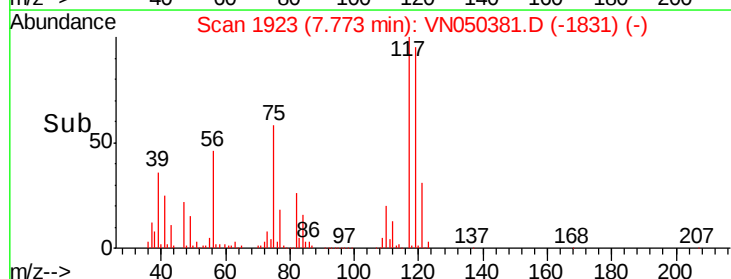
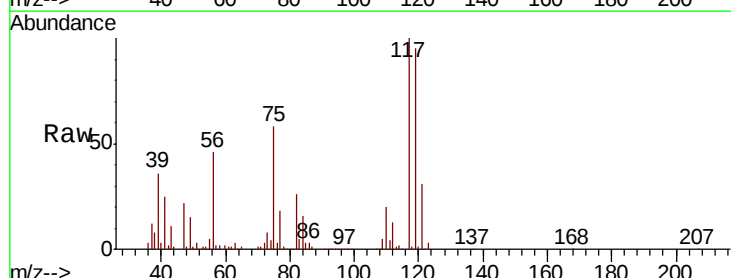
Manual Integrations
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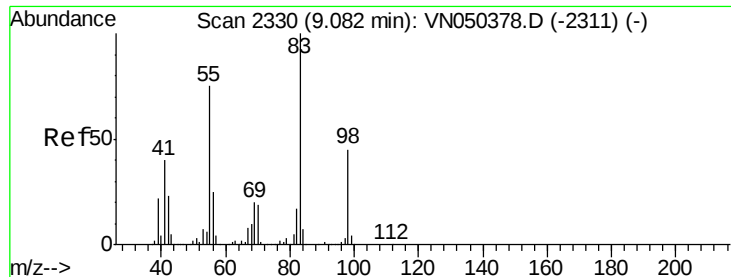
MMDadoda
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#38
Carbon Tetrachloride
Concen: 47.30 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Resp	Lower	Upper
117	100			
119	95.3	77.4	116.0	
121	30.5	23.9	35.9	





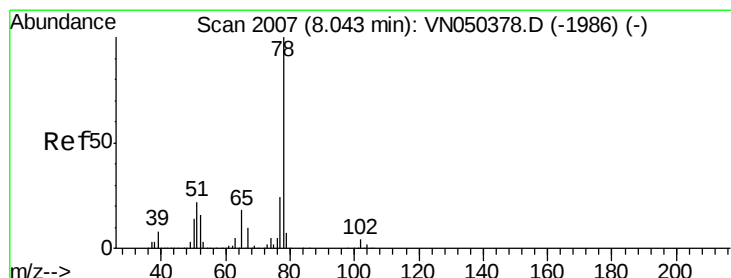
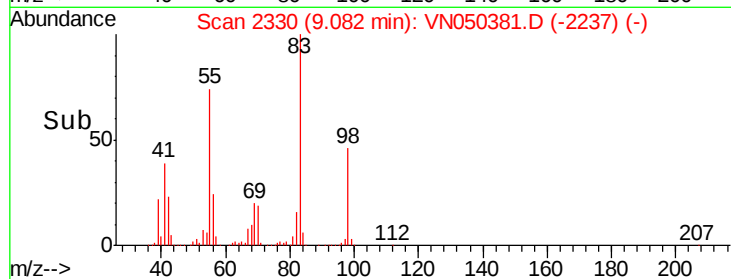
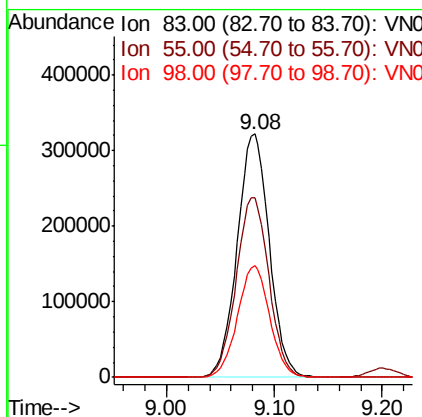
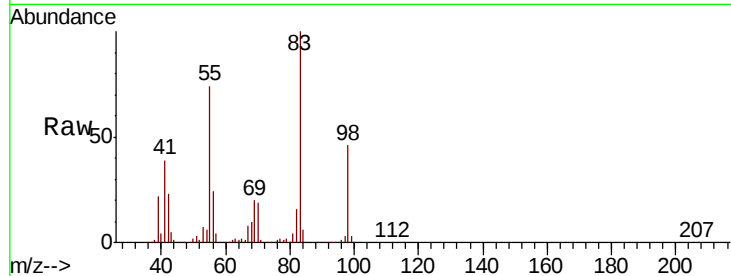
#39
Methvlcvclohexane
Concen: 53.06 ug/l
RT: 9.08 min Scan# 2330
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion	Ratio	Lower	Upper
83	100		
55	73.6	61.8	92.8
98	45.8	36.5	54.7

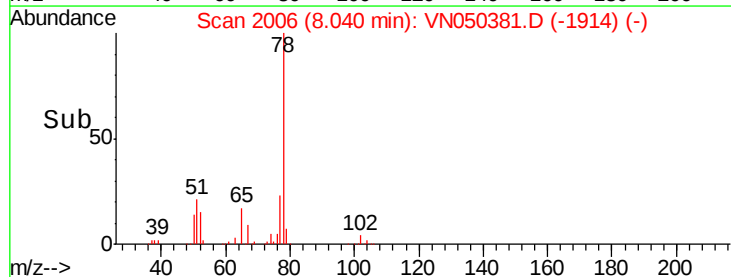
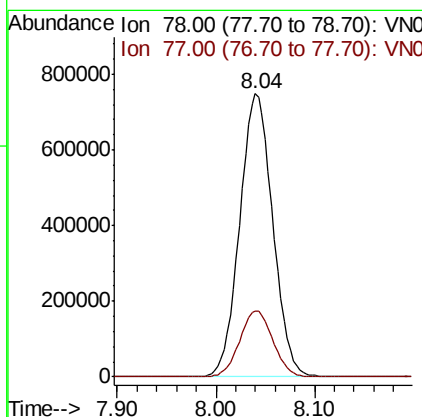
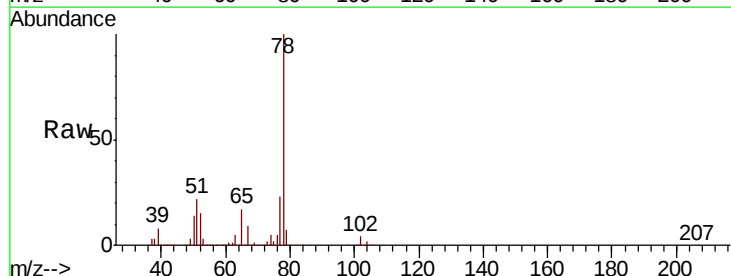
Manual Integrations
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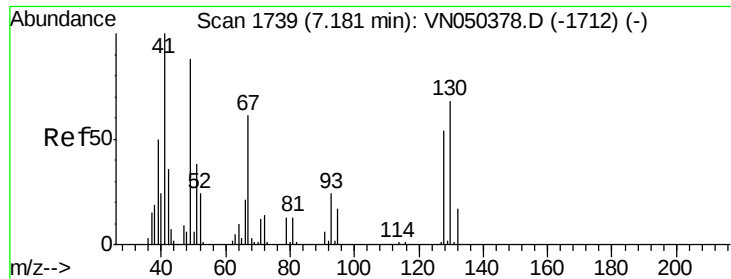
MMDadoda
8/7/2018 9:58:32 AM



#40
Benzene
Concen: 48.87 ug/l
RT: 8.04 min Scan# 2006
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.4	18.7	28.1





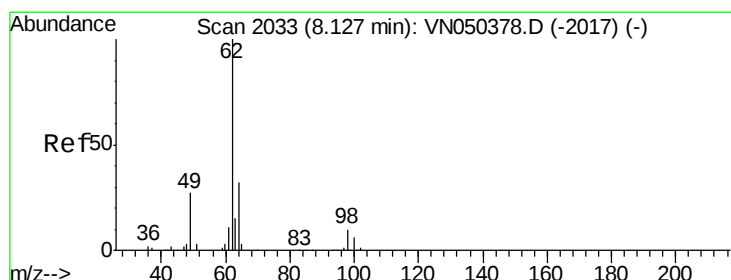
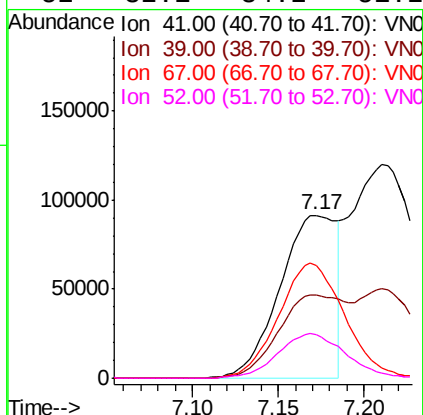
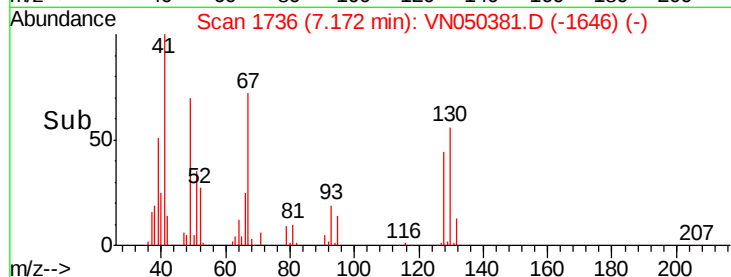
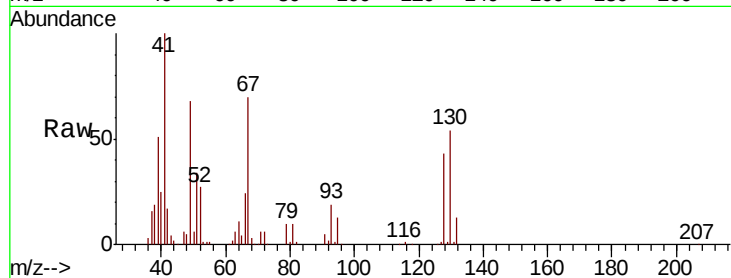
#41
Methacrylonitrile
Concen: 47.48 ug/l
RT: 7.17 min Scan# 1736
Delta R.T. -0.01 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion	Ratio	Lower	Upper
41	100		
39	60.3	55.8	83.6
67	82.8	84.3	126.5#
52	32.1	34.2	51.2#

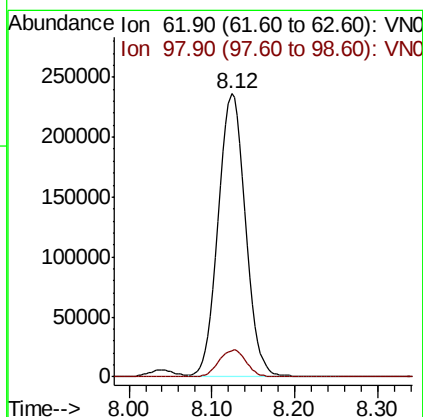
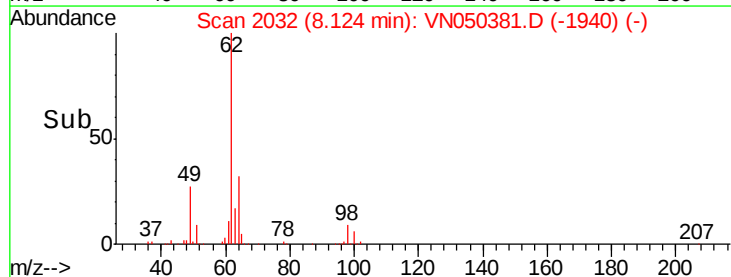
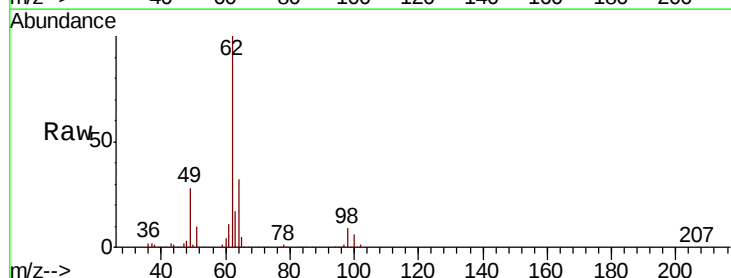
Manual Integrations
APPROVED

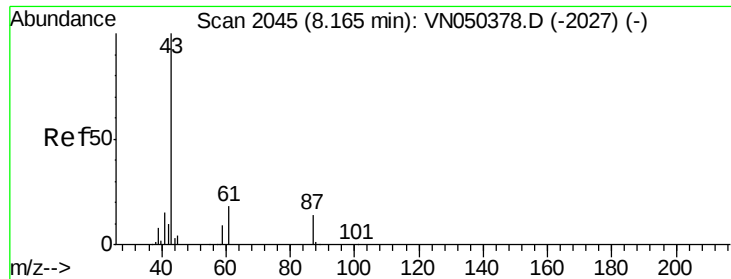
MMDadoda
8/7/2018 9:58:32 AM



#42
1,2-Dichloroethane
Concen: 48.03 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Lower	Upper
62	100		
98	9.7	0.0	18.8





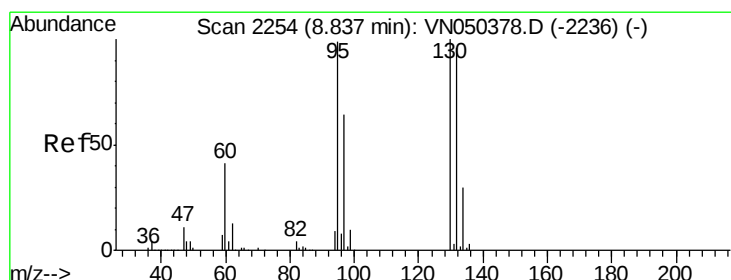
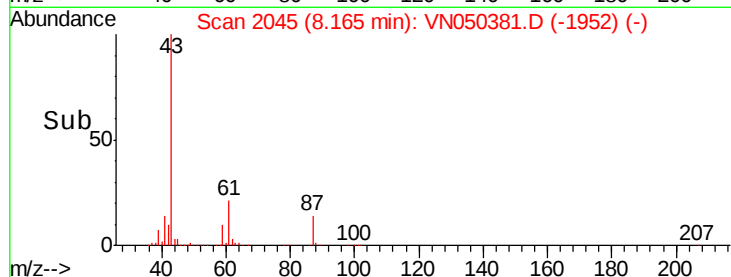
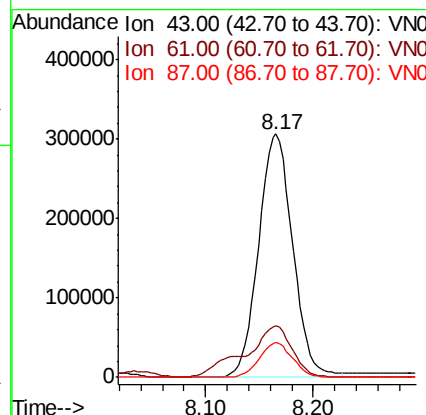
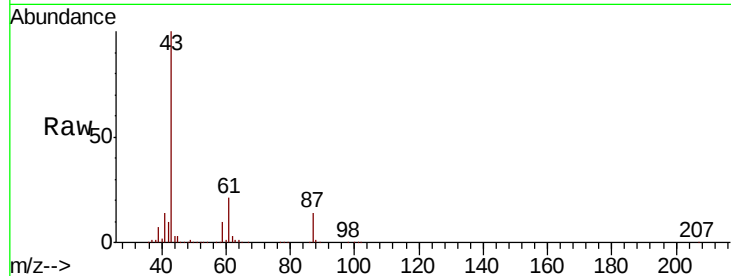
#43
Isopropyl Acetate
Concen: 46.86 ug/l
RT: 8.17 min Scan# 2045
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion	Ratio	Lower	Upper
43	100		
61	29.3	15.8	23.6#
87	13.9	10.3	15.5

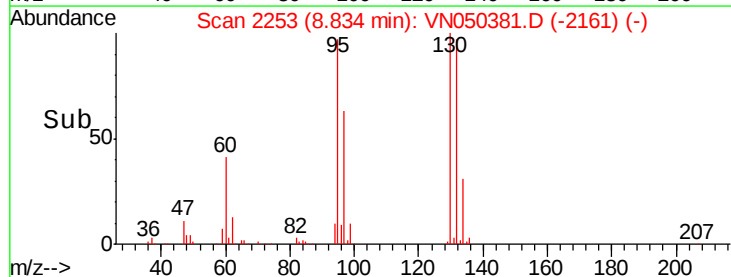
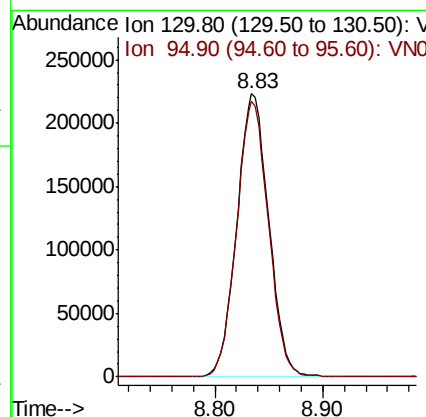
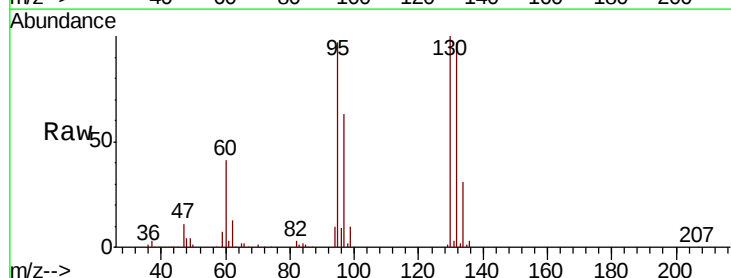
Manual Integrations
APPROVED

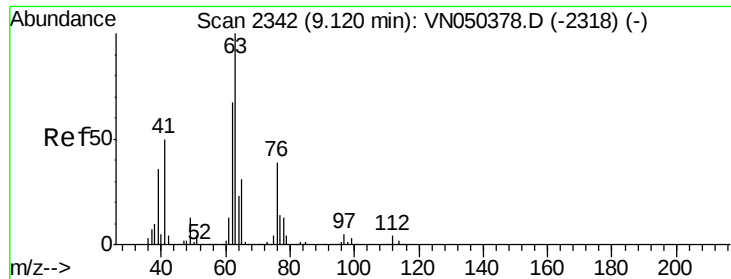
MMDadoda
8/7/2018 9:58:32 AM



#44
Trichloroethene
Concen: 48.41 ug/l
RT: 8.83 min Scan# 2253
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Lower	Upper
130	100		
95	97.4	0.0	194.6





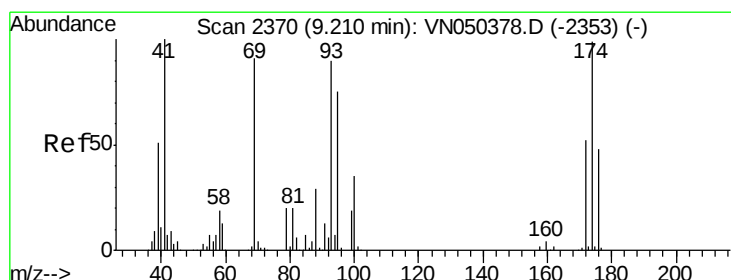
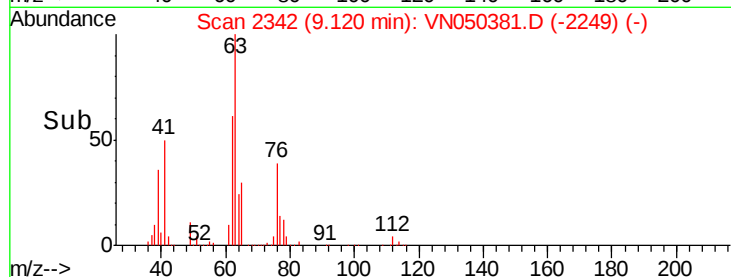
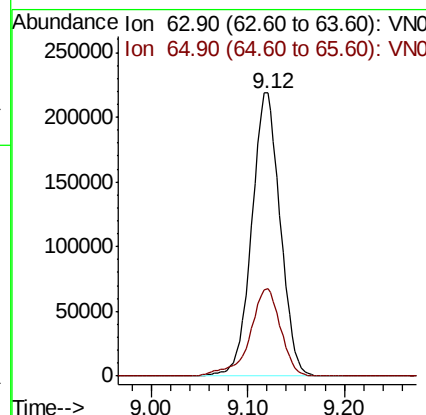
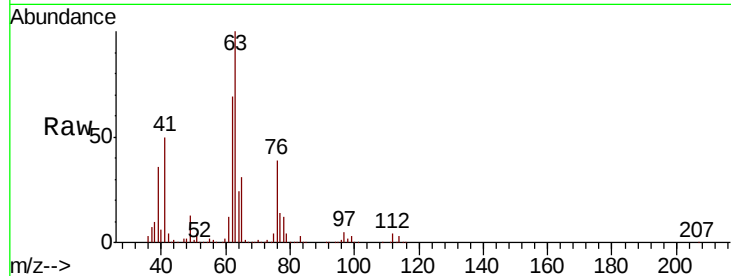
#45
 1,2-Dichloropropane
 Concen: 47.98 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. 0.00 min
 Lab File: VN050381.D
 Acq: 6 Aug 2018 14:04

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080618

Tot Ion: 63 Resp: 446908
 Ion Ratio Lower Upper
 63 100
 65 31.0 25.5 38.3

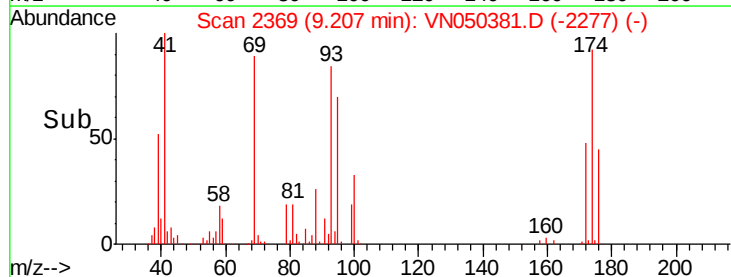
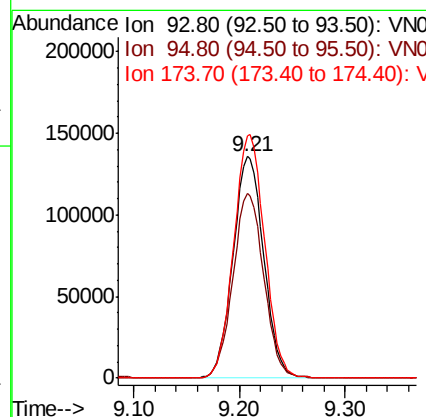
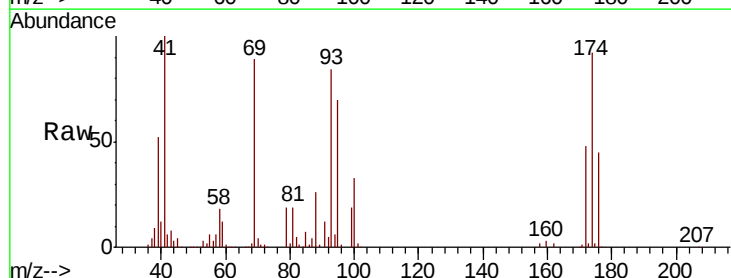
Manual Integrations
 APPROVED

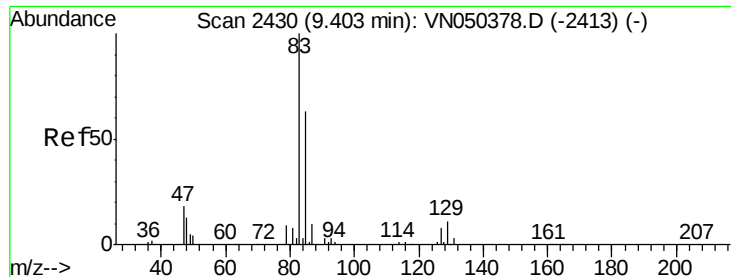
MMDadoda
 8/7/2018 9:58:32 AM



#46
 Dibromomethane
 Concen: 47.77 ug/l
 RT: 9.21 min Scan# 2369
 Delta R.T. -0.00 min
 Lab File: VN050381.D
 Acq: 6 Aug 2018 14:04

Tgt Ion: 93 Resp: 274761
 Ion Ratio Lower Upper
 93 100
 95 83.5 66.6 100.0
 174 110.5 87.1 130.7





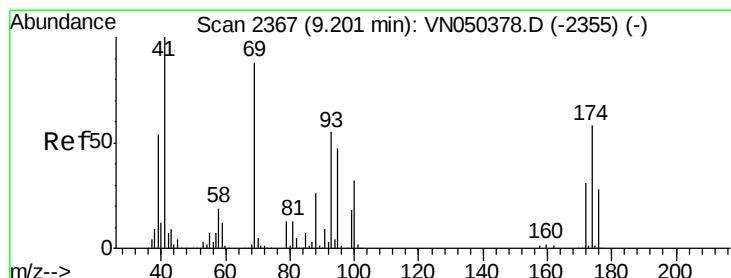
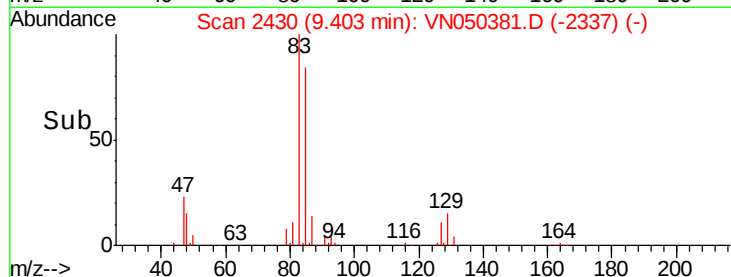
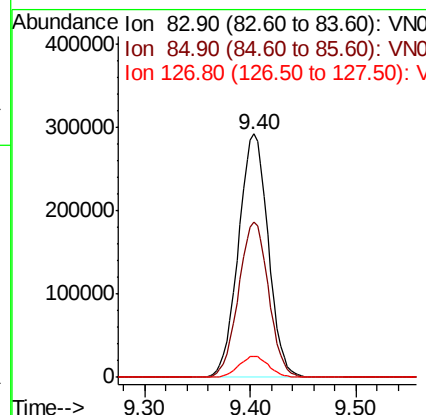
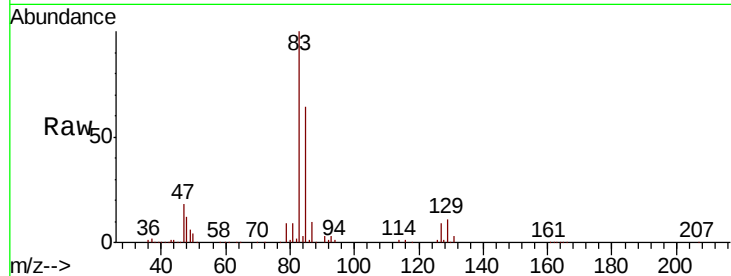
#47
Bromodichloromethane
Concen: 47.82 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion	Ratio	Resp	Lower	Upper
83	100			
85	63.6	51.1	76.7	
127	8.7	7.0	10.4	

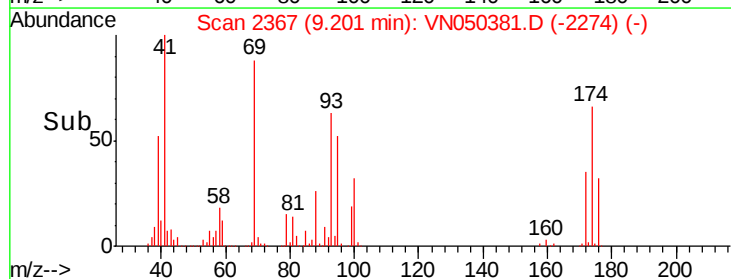
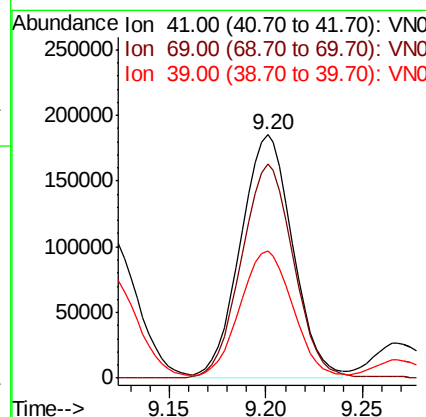
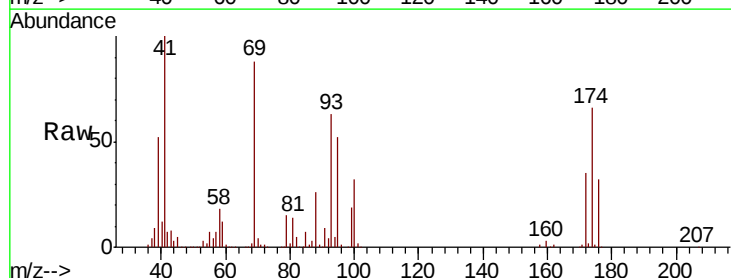
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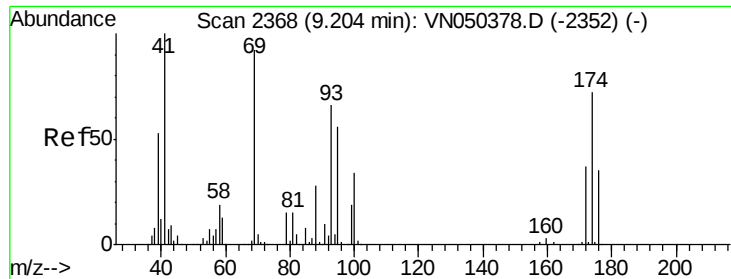
MMDadoda
8/7/2018 9:58:32 AM



#48
Methyl methacrylate
Concen: 48.28 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Resp	Lower	Upper
41	100			
69	88.8	70.6	105.8	
39	53.5	43.9	65.9	





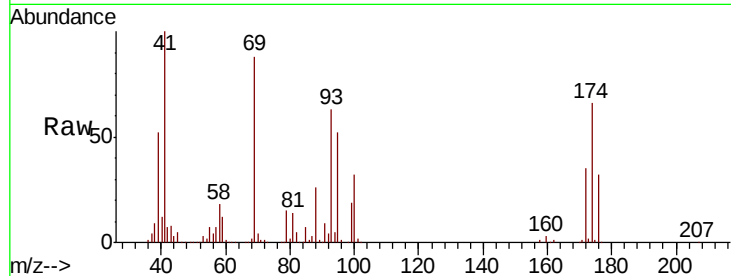
#49
1,4-Dioxane
Concen: 889.14 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion	Ratio	Lower	Upper
88	100		
43	30.2	26.9	40.3
58	69.6	57.3	85.9

Manual Integrations
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MMDadoda
8/7/2018 9:58:32 AM

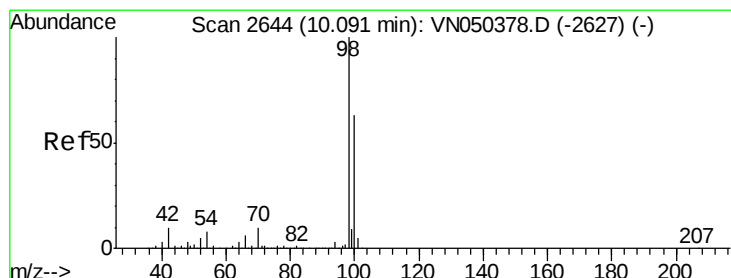
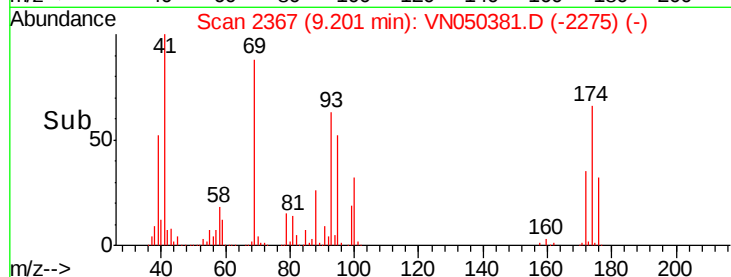
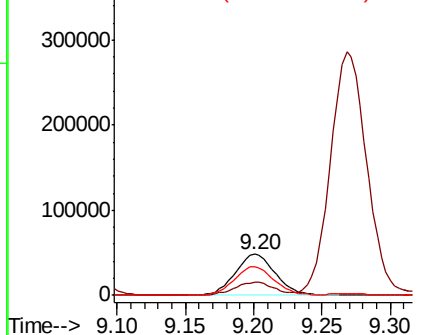


Abundance

Ion 88.00 (87.70 to 88.70): VN050378.D (-2352) (-)

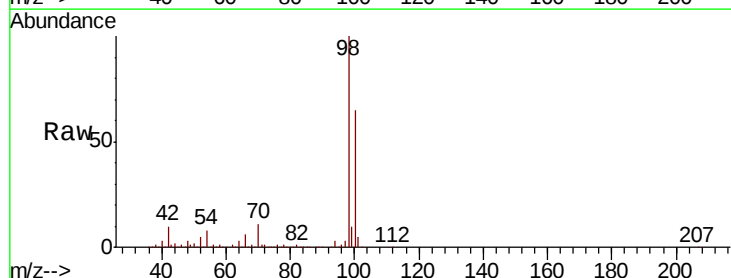
Ion 43.00 (42.70 to 43.70): VN050378.D (-2352) (-)

Ion 58.00 (57.70 to 58.70): VN050378.D (-2352) (-)



#50
Toluene-d8
Concen: 48.58 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

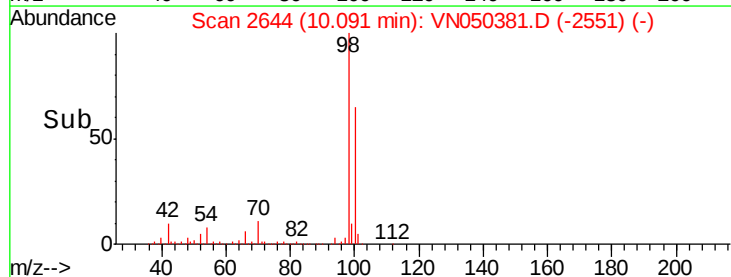
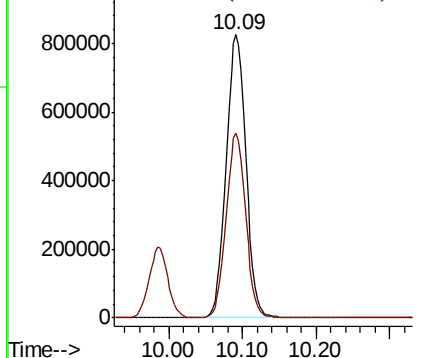
Tgt Ion	Ratio	Lower	Upper
98	100		
100	64.6	50.7	76.1

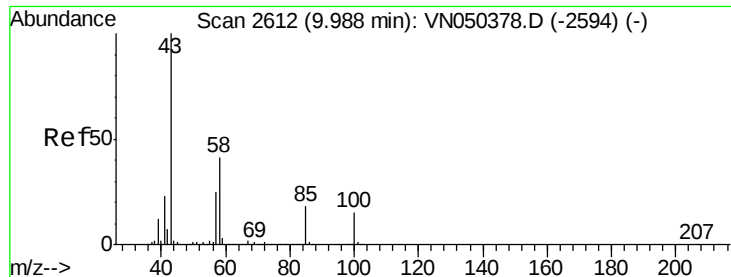


Abundance

Ion 98.00 (97.70 to 98.70): VN050378.D (-2627) (-)

Ion 100.00 (99.70 to 100.70): VN050378.D (-2627) (-)





#51

4-Methyl-2-Pentanone

Concen: 232.17 ug/l

RT: 9.99 min Scan# 2611

Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080618

Tot Ion: 43 Resp: 2395524

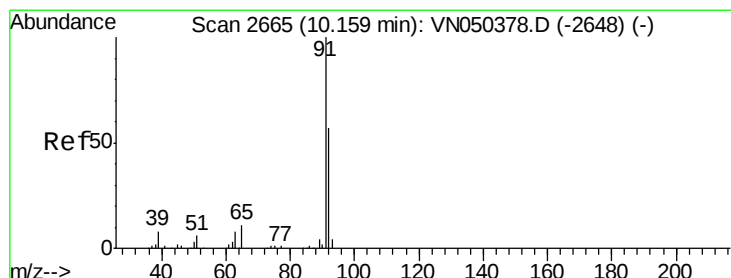
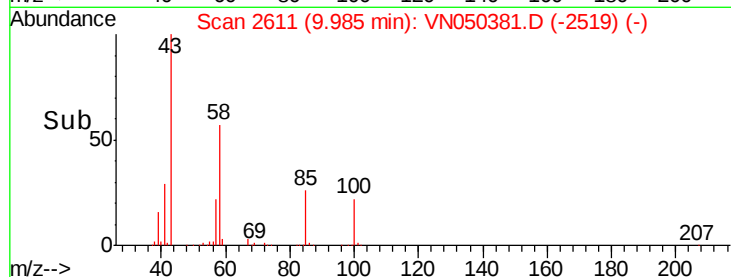
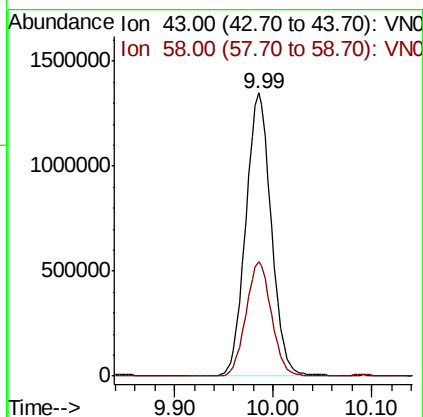
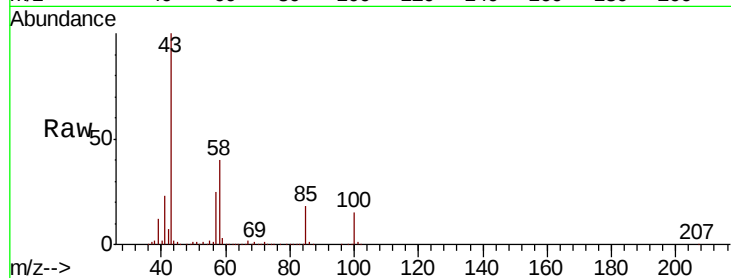
Ion Ratio Lower Upper

43 100

58 40.5 31.9 47.9

Manual Integrations
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#52

Toluene

Concen: 50.70 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050381.D

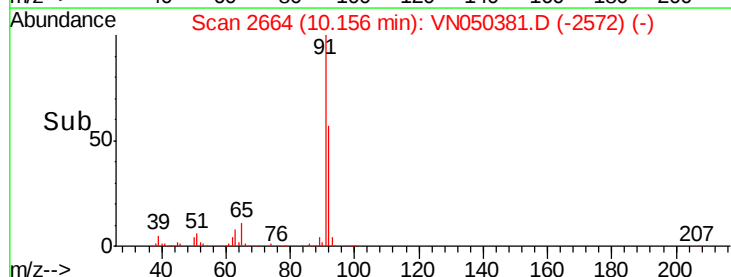
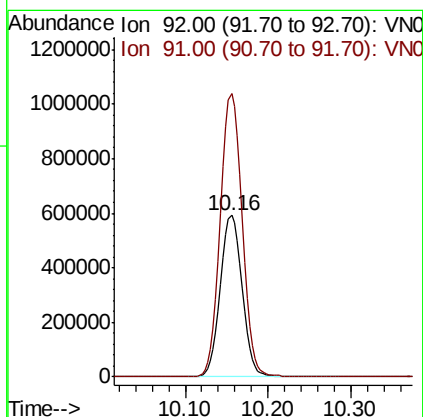
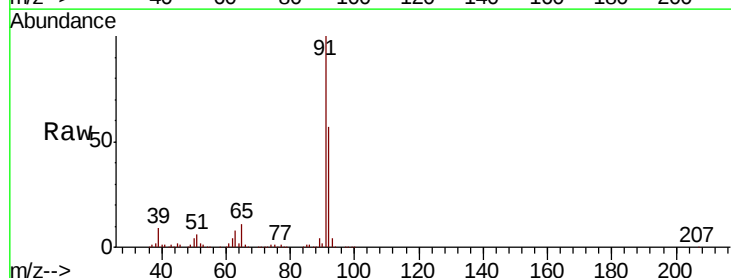
Acq: 6 Aug 2018 14:04

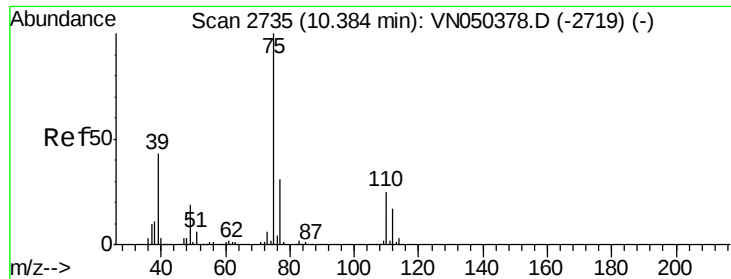
Tgt Ion: 92 Resp: 1079051

Ion Ratio Lower Upper

92 100

91 176.2 140.3 210.5





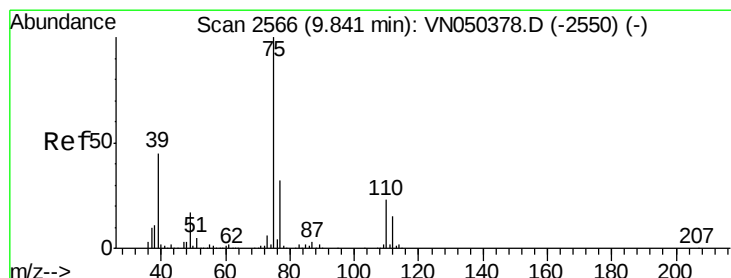
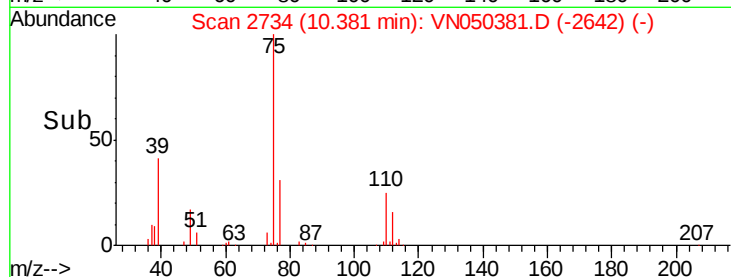
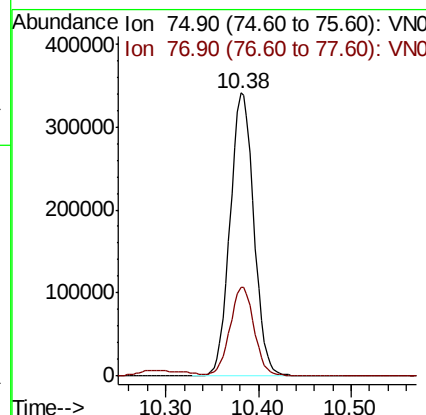
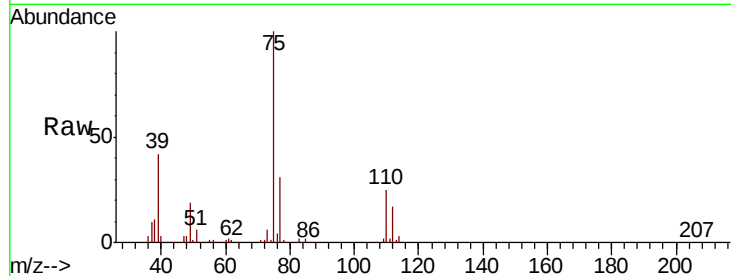
#53
t-1,3-Dichloropropene
Concen: 50.75 ug/l
RT: 10.38 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.3	24.9	37.3

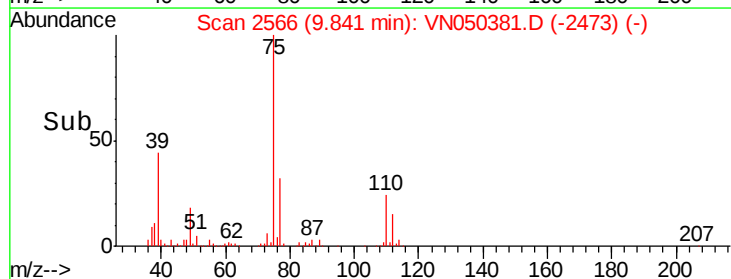
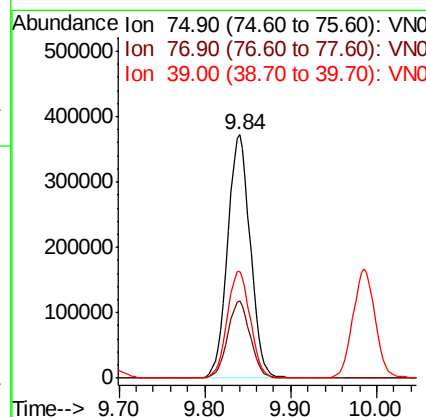
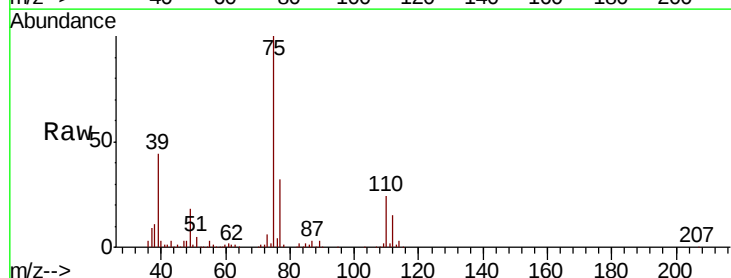
Manual Integrations
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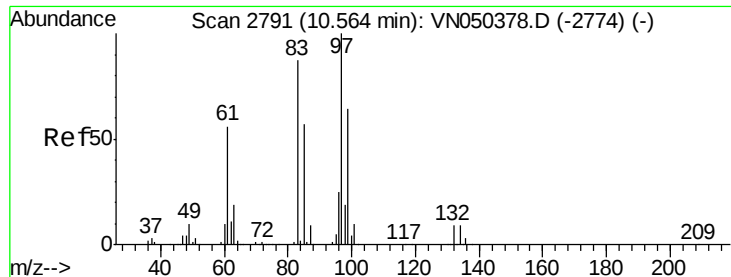
MMDadoda
8/7/2018 9:58:32 AM



#54
cis-1,3-Dichloropropene
Concen: 51.10 ug/l
RT: 9.84 min Scan# 2566
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Lower	Upper
75	100		
77	31.6	25.5	38.3
39	43.9	36.6	55.0





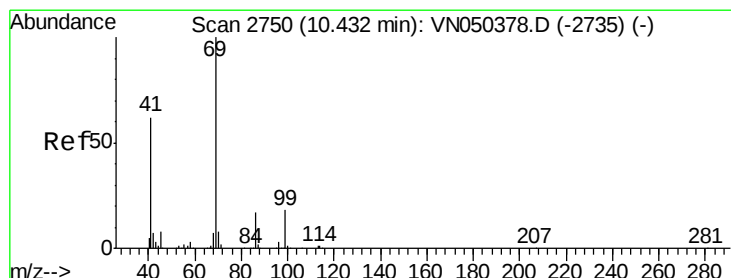
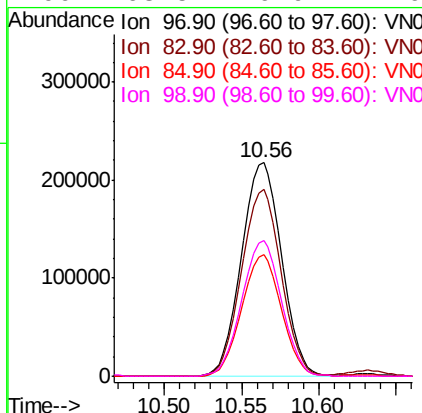
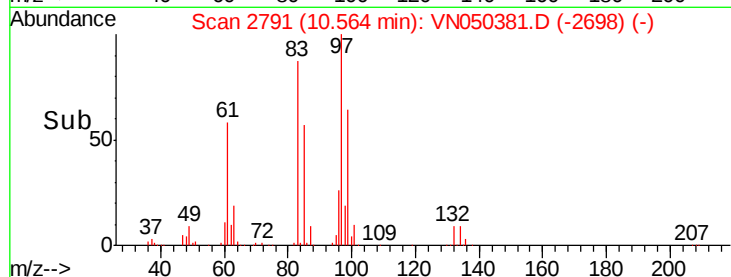
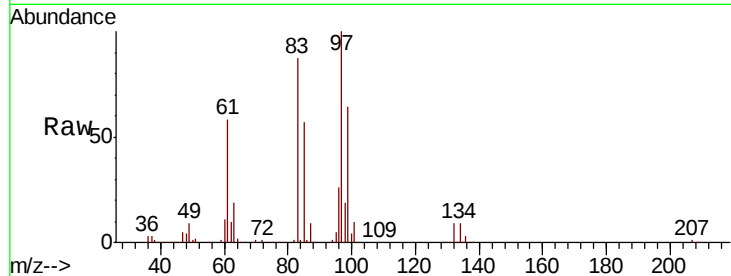
#55
 1,1,2-Trichloroethane
 Concen: 47.53 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050381.D
 Acq: 6 Aug 2018 14:04

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080618

Tot Ion	Ratio	Lower	Upper
97	100		
83	87.2	69.2	103.8
85	57.2	44.0	66.0
99	63.5	49.9	74.9

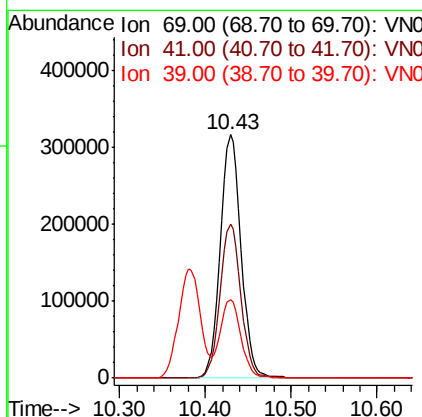
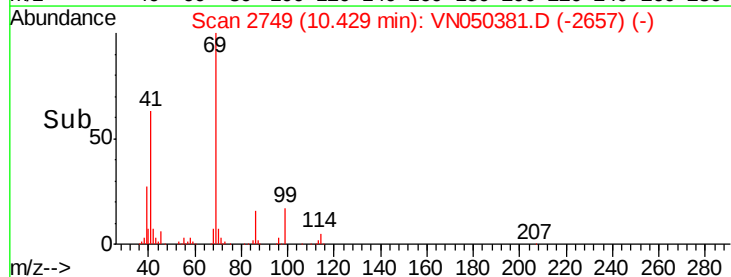
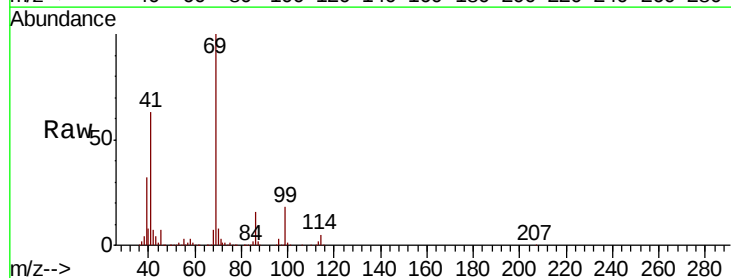
Manual Integrations
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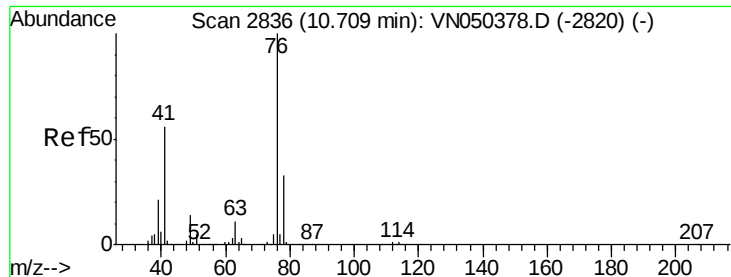
MMDadoda
 8/7/2018 9:58:32 AM



#56
 Ethyl methacrylate
 Concen: 45.57 ug/l
 RT: 10.43 min Scan# 2749
 Delta R.T. -0.00 min
 Lab File: VN050381.D
 Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Lower	Upper
69	100		
41	62.9	51.0	76.4
39	32.3	26.6	40.0





#57

1,3-Dichloropropane

Concen: 49.12 ug/l

RT: 10.71 min Scan# 2836

Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080618

Tot Ion: 76 Resp: 669883

Ion Ratio Lower Upper

76 100

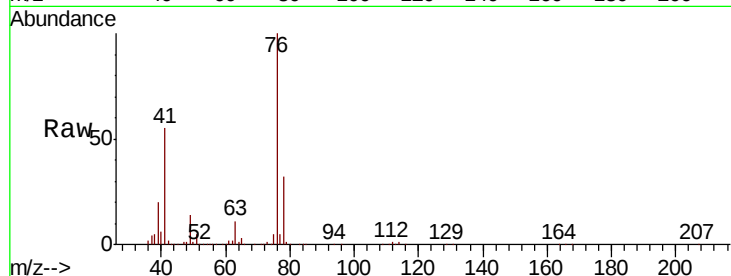
78 32.1 25.7 38.5

Manual Integrations

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MMDadoda

8/7/2018 9:58:32 AM



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

400000

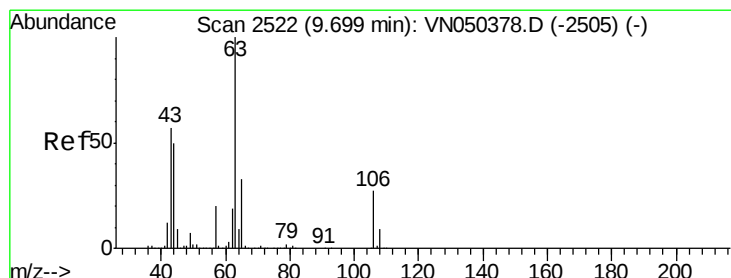
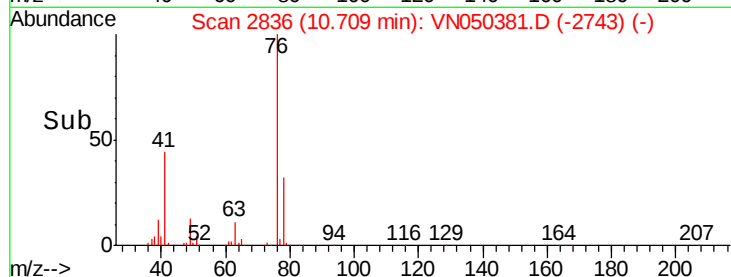
300000

200000

100000

0

Time-->



#58

2-Chloroethyl Vinyl ether

Concen: 232.78 ug/l

RT: 9.70 min Scan# 2521

Delta R.T. -0.00 min

Lab File: VN050381.D

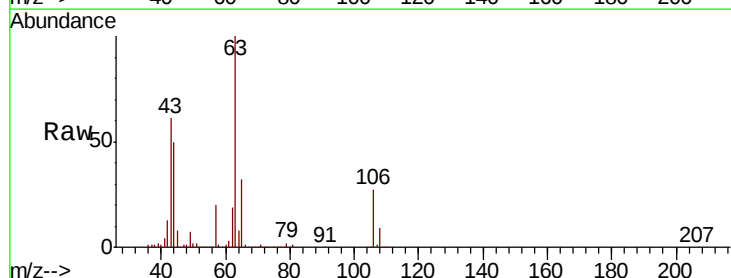
Acq: 6 Aug 2018 14:04

Tgt Ion: 63 Resp: 1272880

Ion Ratio Lower Upper

63 100

106 27.7 21.7 32.5



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

800000

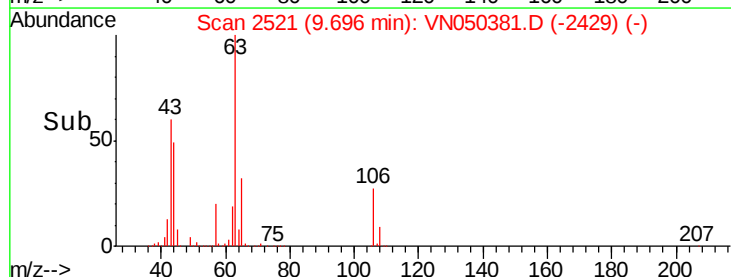
600000

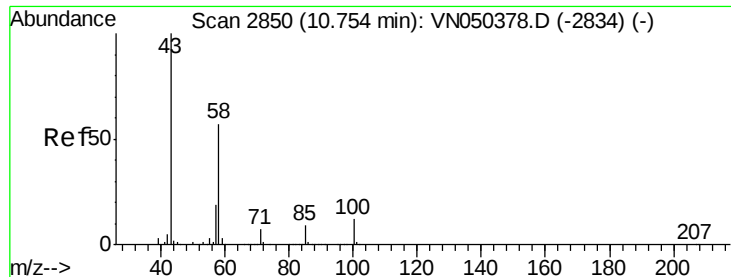
400000

200000

0

Time-->





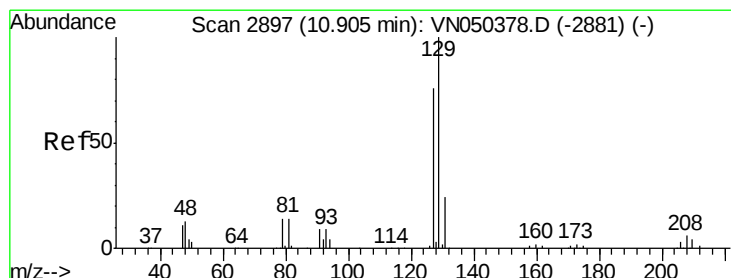
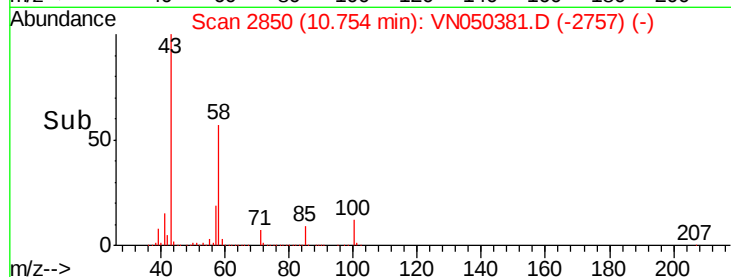
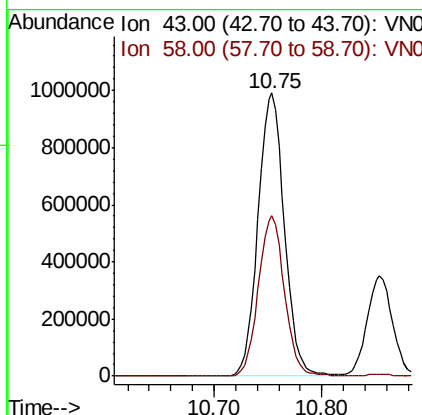
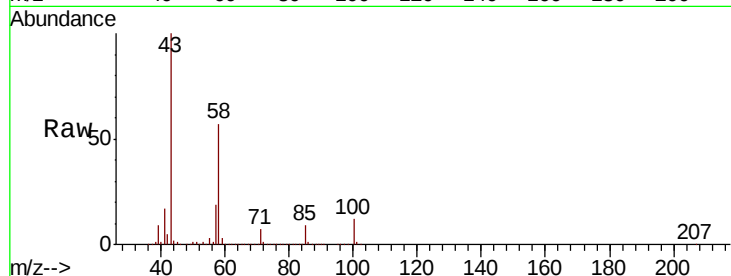
#59
2-Hexanone
Concen: 232.47 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion: 43 Resp: 1673934
Ion Ratio Lower Upper
43 100
58 56.3 27.6 82.7

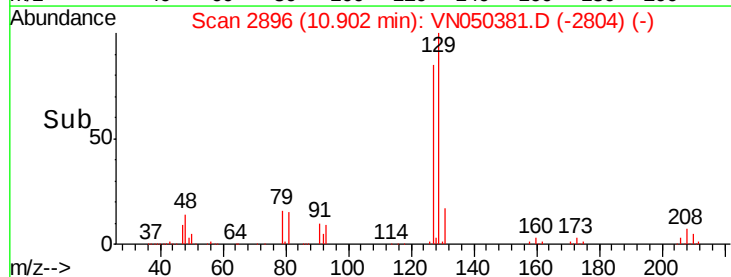
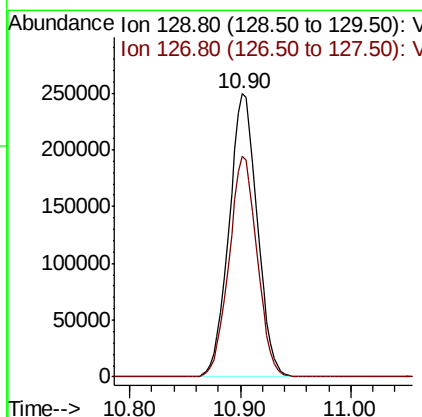
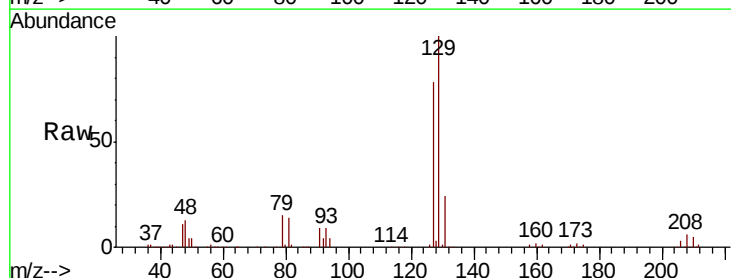
Manual Integrations
APPROVED

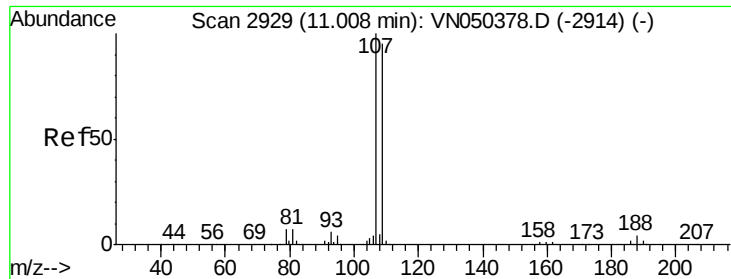
MMDadoda
8/7/2018 9:58:32 AM



#60
Dibromochloromethane
Concen: 48.31 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion: 129 Resp: 442224
Ion Ratio Lower Upper
129 100
127 77.4 38.0 113.9





#61

1,2-Dibromoethane

Concen: 49.24 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampled :

ICVVN080618

Tot Ion: 107 Resp: 403294

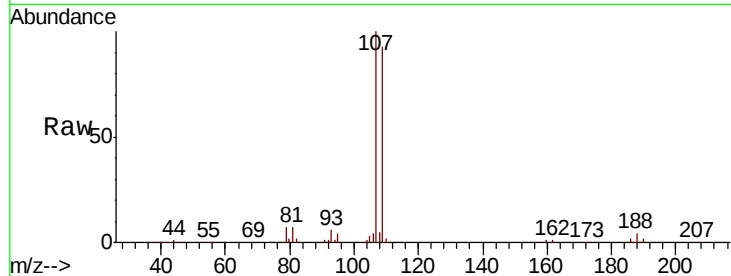
Ion Ratio Lower Upper

107 100

109 93.7 74.6 112.0

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:58:32 AM



Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

250000

200000

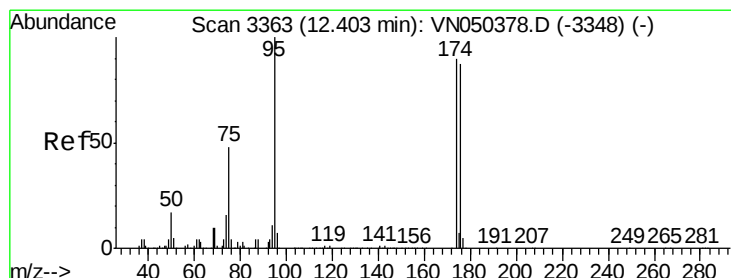
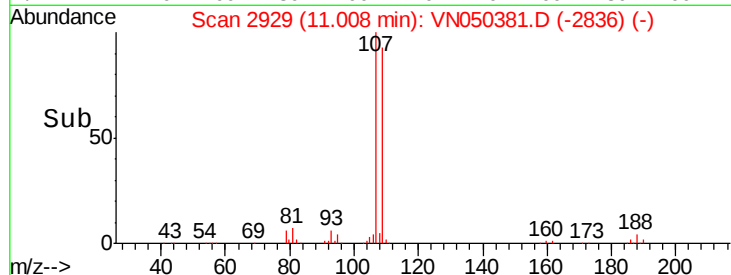
150000

100000

50000

0

Time--> 10.90 11.00 11.10



#62

4-Bromofluorobenzene

Concen: 50.01 ug/l

RT: 12.40 min Scan# 3363

Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

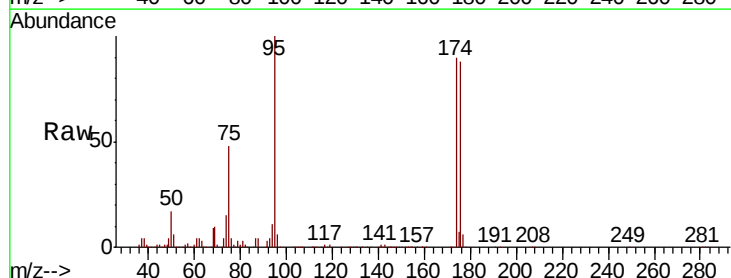
Tgt Ion: 95 Resp: 539376

Ion Ratio Lower Upper

95 100

174 90.4 0.0 178.2

176 88.1 0.0 173.4



Abundance Ion 94.90 (94.60 to 95.60): VNO

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

400000

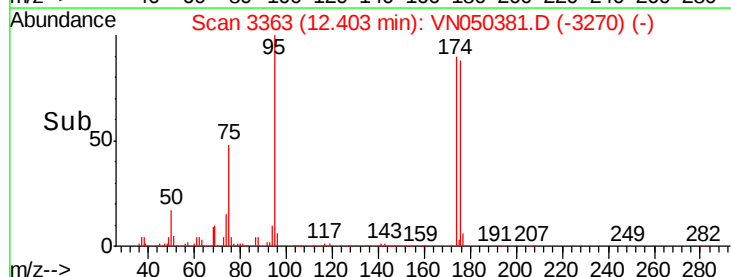
300000

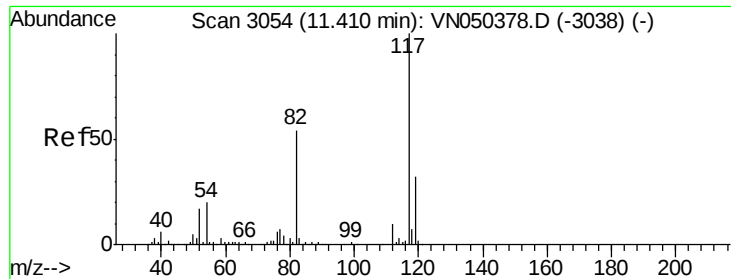
200000

100000

0

Time--> 12.35 12.40 12.45





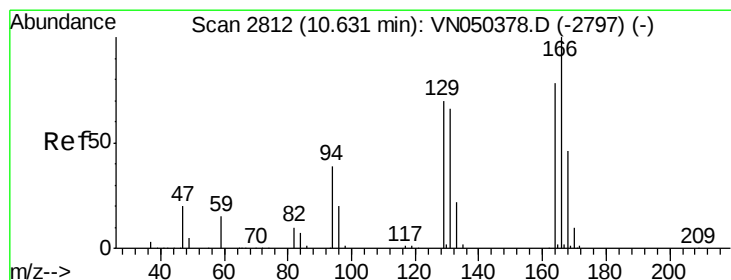
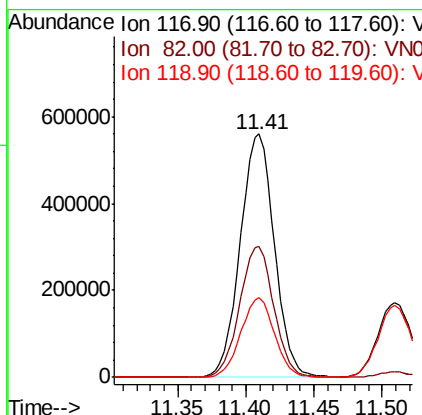
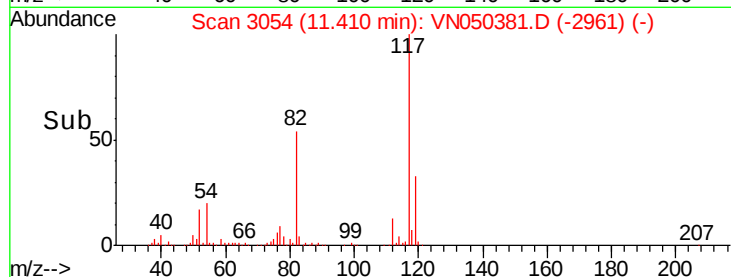
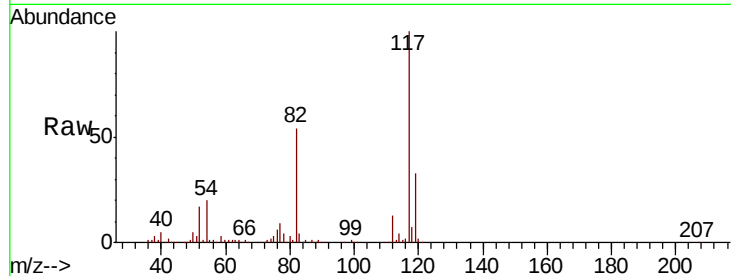
#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.7	43.7	65.5
119	32.6	26.1	39.1

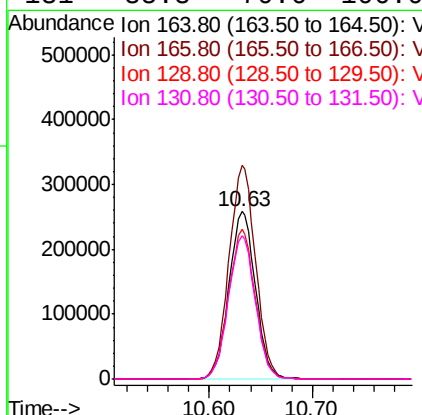
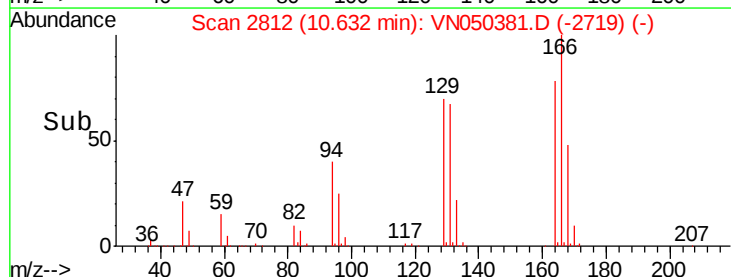
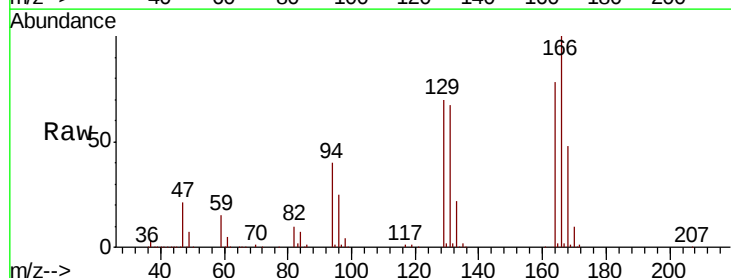
Manual Integrations
APPROVED

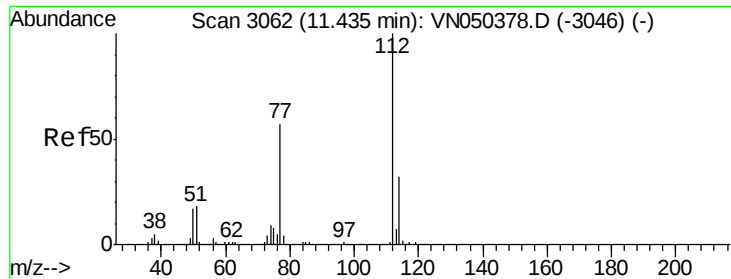
MMDadoda
8/7/2018 9:58:32 AM



#64
Tetrachloroethene
Concen: 50.74 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Lower	Upper
164	100		
166	127.5	102.1	153.1
129	89.3	73.2	109.8
131	85.8	70.6	106.0





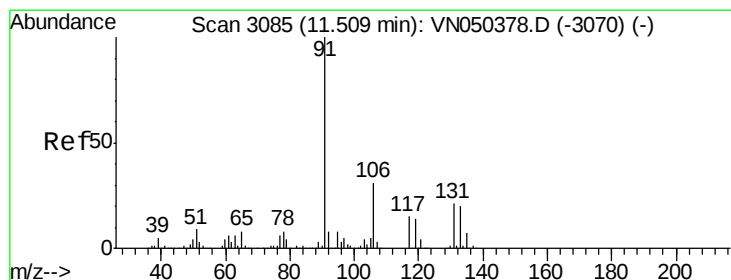
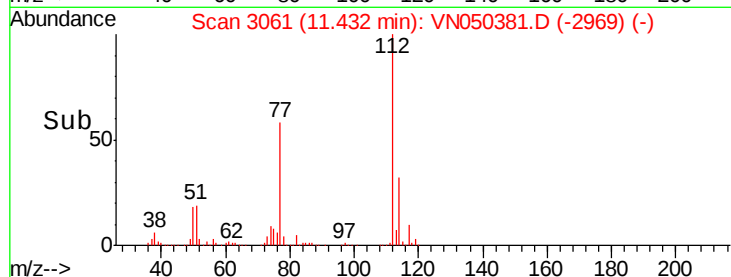
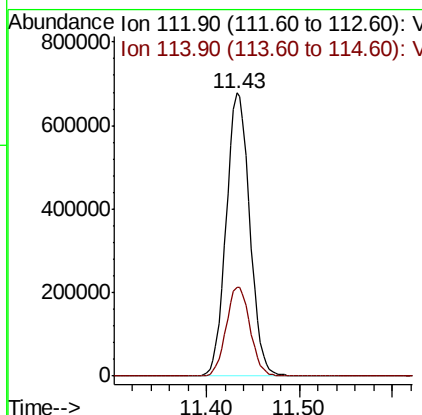
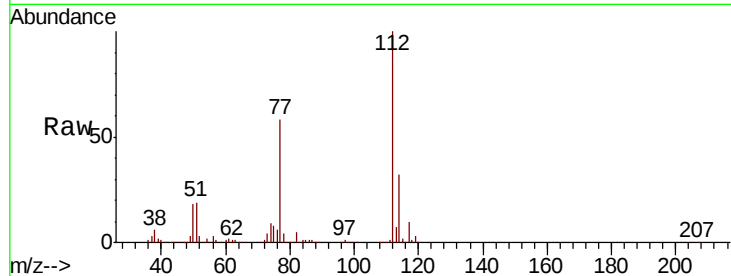
#65
Chlorobenzene
Concen: 48.80 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion:112 Resp: 1193536
Ion Ratio Lower Upper
112 100
114 31.6 25.6 38.4

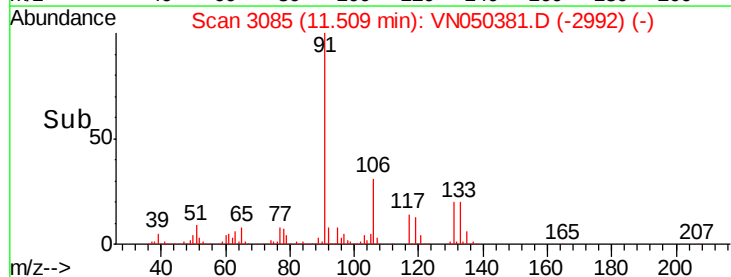
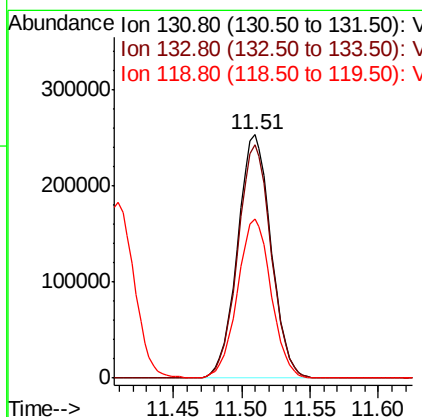
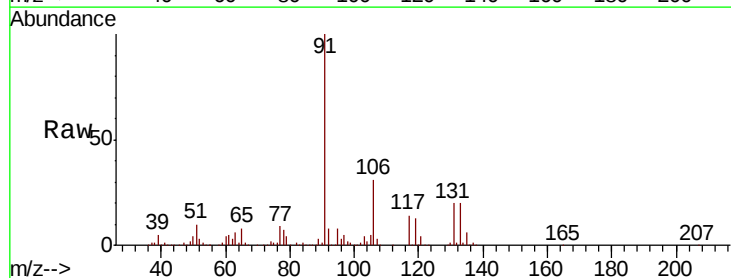
Manual Integrations
APPROVED

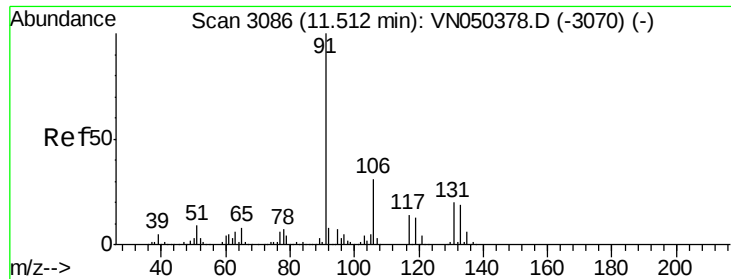
MMDadoda
8/7/2018 9:58:32 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 48.50 ug/l
RT: 11.51 min Scan# 3085
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion:131 Resp: 431673
Ion Ratio Lower Upper
131 100
133 95.6 47.3 141.9
119 65.6 32.9 98.7





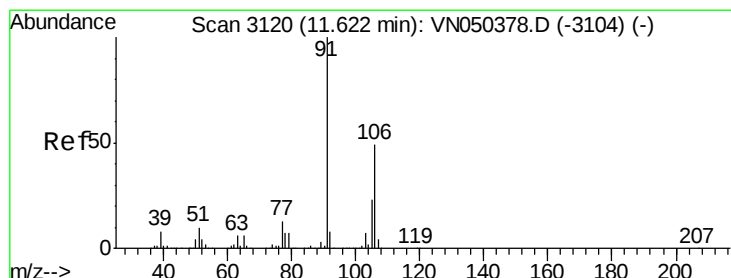
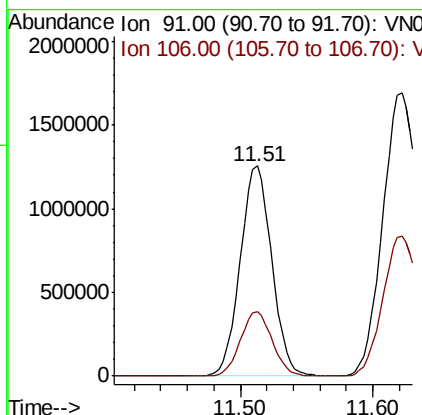
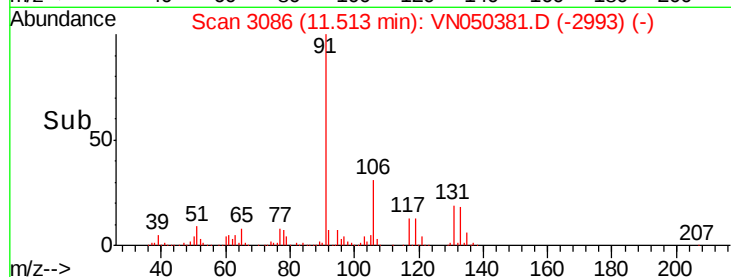
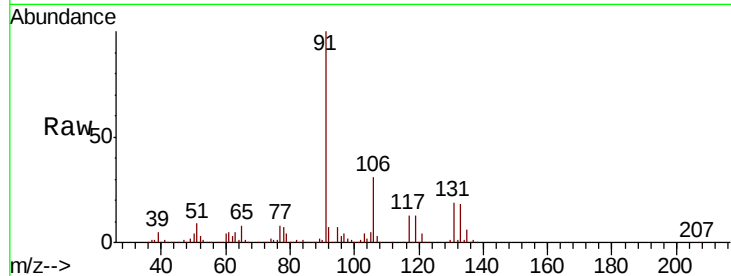
#67
Ethyl Benzene
Concen: 52.46 ug/l
RT: 11.51 min Scan# 3086
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion: 91 Resp: 2073792
Ion Ratio Lower Upper
91 100
106 30.9 25.0 37.4

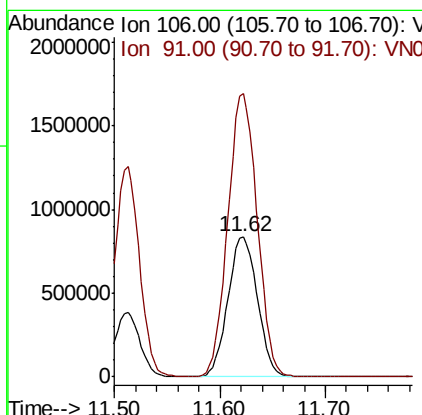
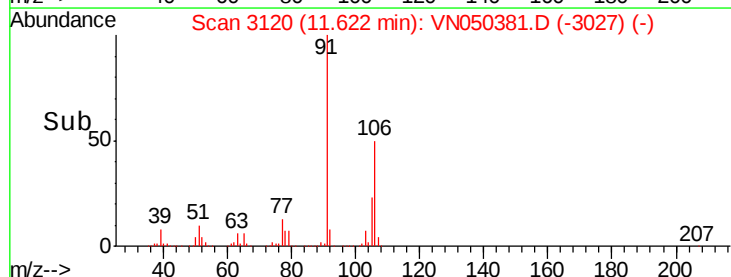
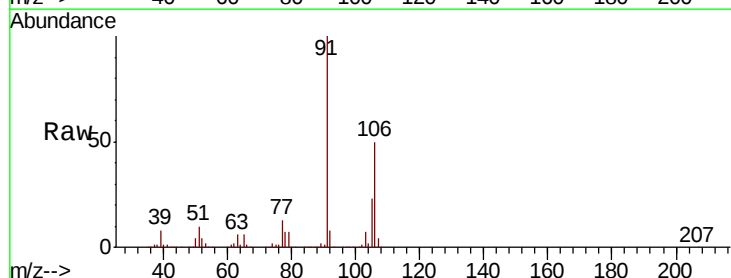
Manual Integrations
APPROVED

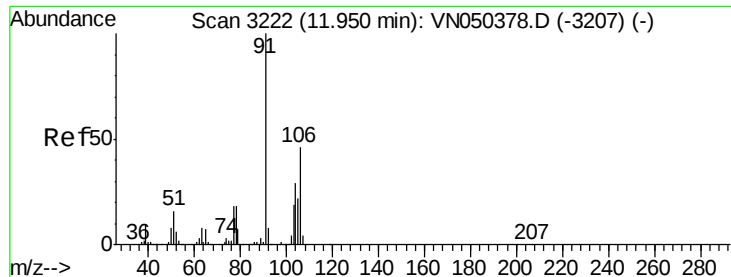
MMDadoda
8/7/2018 9:58:32 AM



#68
m/p-Xylenes
Concen: 107.50 ug/l
RT: 11.62 min Scan# 3120
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion: 106 Resp: 1617835
Ion Ratio Lower Upper
106 100
91 201.3 162.2 243.2





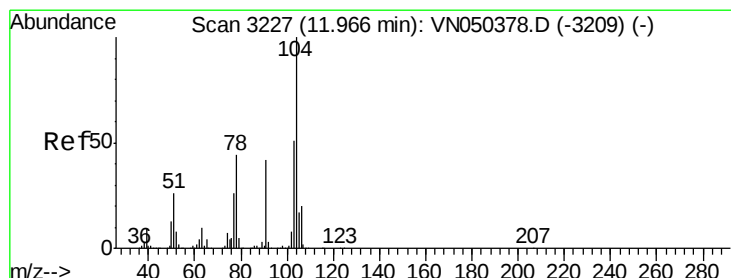
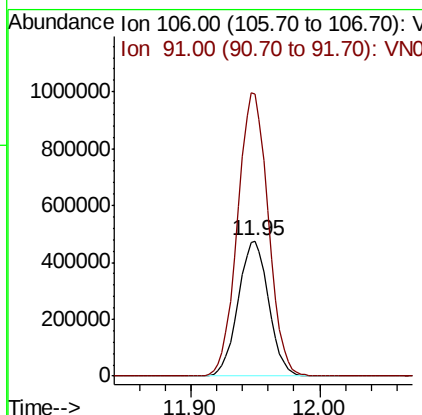
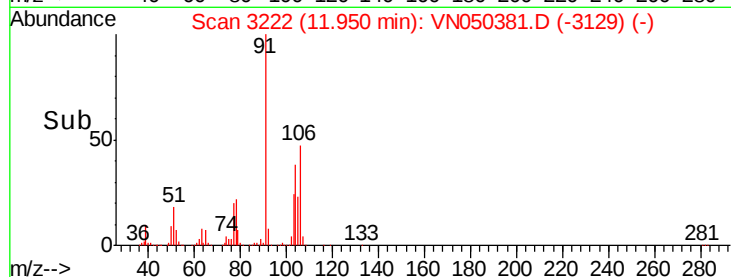
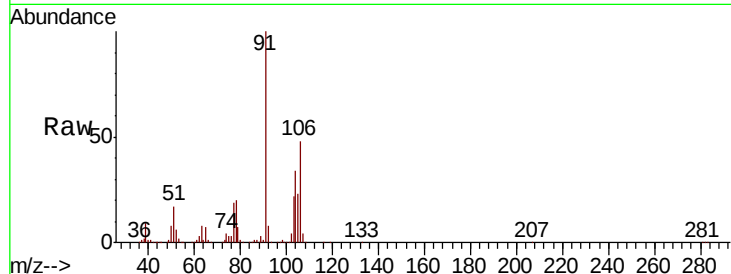
#69
o-Xylene
Concen: 53.84 ug/l
RT: 11.95 min Scan# 3222
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampled :
ICVVN080618

Tot Ion	Ion	Ratio	Lower	Upper
780497	106			
	106	100		
	91	211.2	107.7	323.1

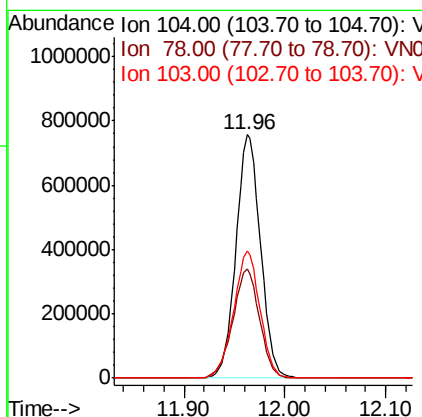
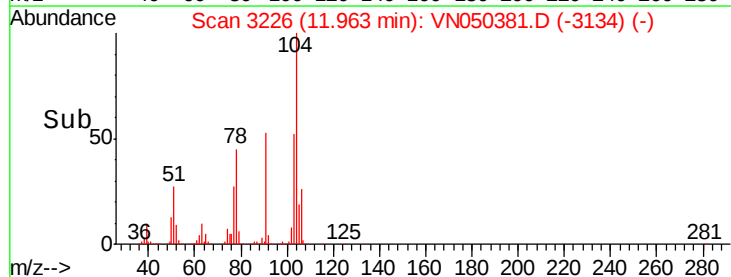
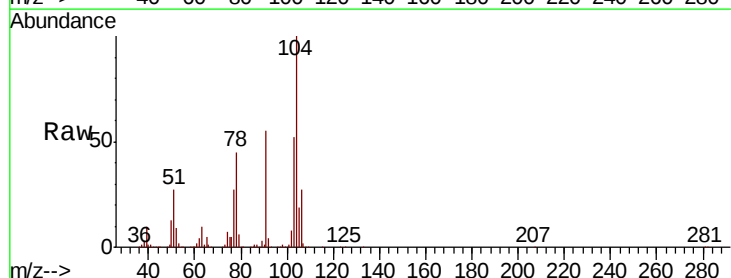
Manual Integrations
APPROVED

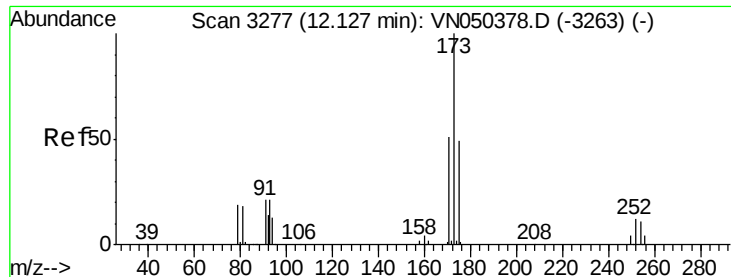
MMDadoda
8/7/2018 9:58:32 AM



#70
Styrene
Concen: 54.09 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion	Ion	Ratio	Lower	Upper
1275195	104			
	104	100		
	78	48.9	39.3	58.9
	103	56.1	45.0	67.6





#71

Bromoform

Concen: 48.51 ug/l

RT: 12.13 min Scan# 3277

Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080618

Tot Ion:173 Resp: 315571

Ion Ratio Lower Upper

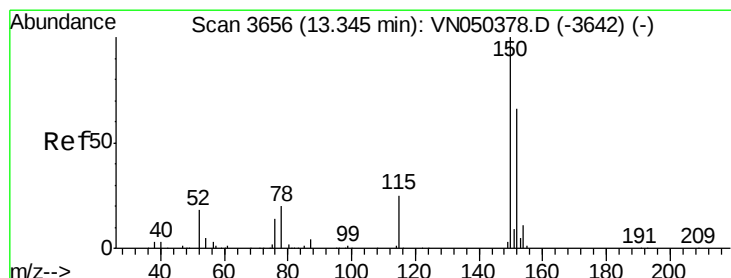
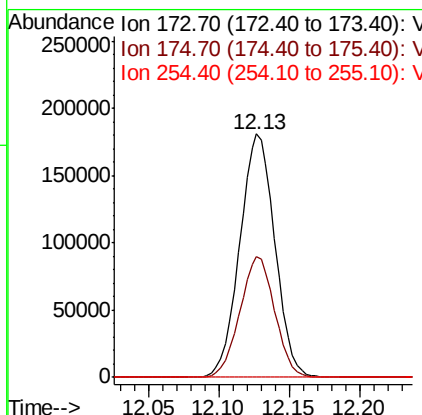
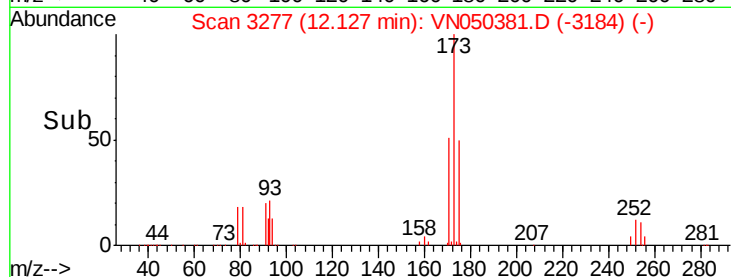
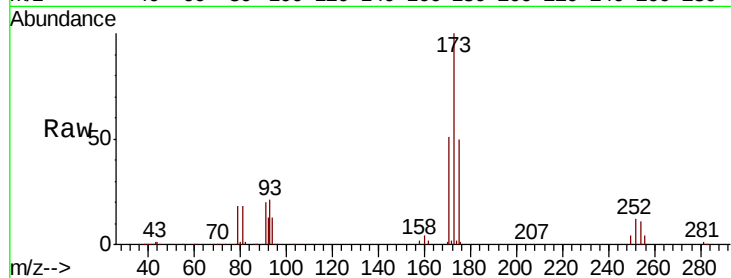
173 100

175 49.1 24.1 72.2

254 0.2 0.2 0.2#

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:58:32 AM



#72

1,4-Dichlorobenzene-d4

Concen: 50.00 ug/l

RT: 13.35 min Scan# 3656

Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

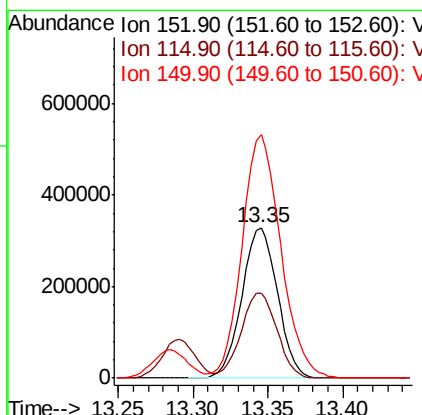
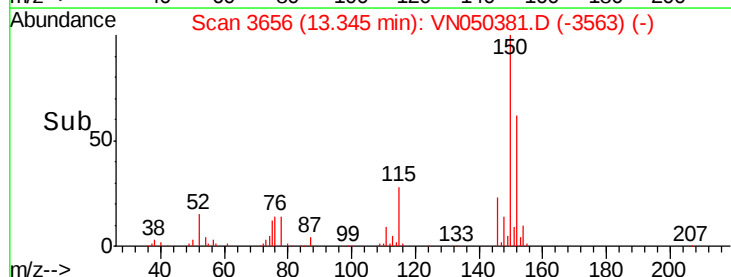
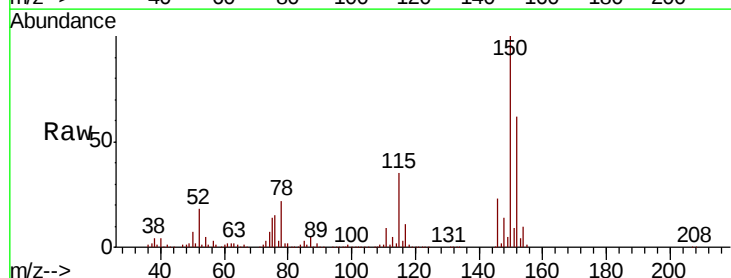
Tgt Ion:152 Resp: 544604

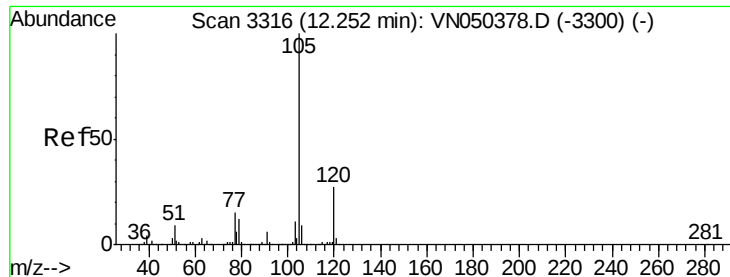
Ion Ratio Lower Upper

152 100

115 57.0 27.8 83.3

150 175.9 0.0 348.6





#73

Isopropylbenzene

Concen: 50.48 ug/l

RT: 12.25 min Scan# 3315

Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampled :

ICVVN080618

Tot Ion: 105 Resp: 2063854

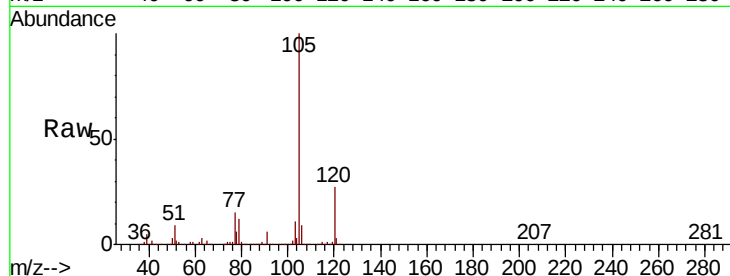
Ion Ratio Lower Upper

105 100

120 26.4 13.3 39.8

Manual Integrations
APPROVED

MMDadoda
8/7/2018 9:58:32 AM



Abundance Ion 105.00 (104.70 to 105.70): V

1500000 Ion 120.00 (119.70 to 120.70): V

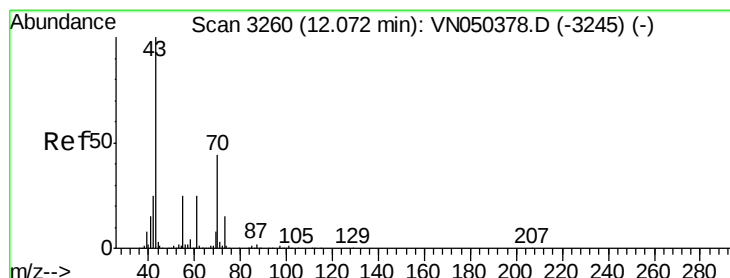
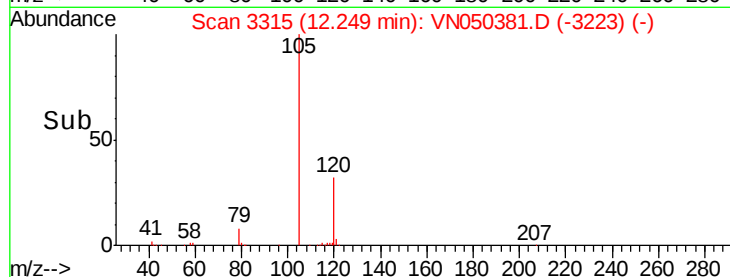
12.25

1000000

500000

0

Time-->



#74

N-ethyl acetate

Concen: 46.07 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Tgt Ion: 43 Resp: 610494

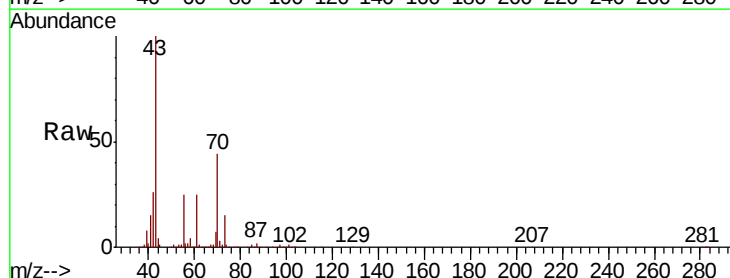
Ion Ratio Lower Upper

43 100

70 43.9 34.4 51.6

55 25.7 20.8 31.2

61 25.2 19.7 29.5



Abundance Ion 43.00 (42.70 to 43.70): V

600000 Ion 70.00 (69.70 to 70.70): V

500000 Ion 55.00 (54.70 to 55.70): V

400000 Ion 61.00 (60.70 to 61.70): V

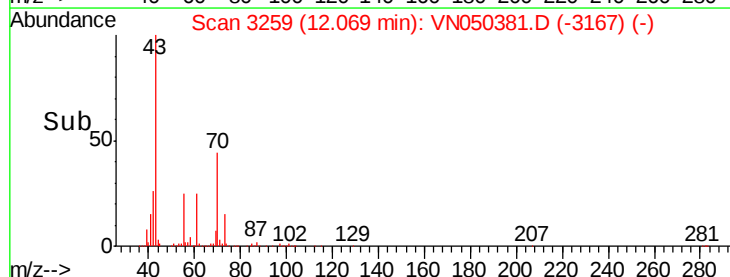
300000

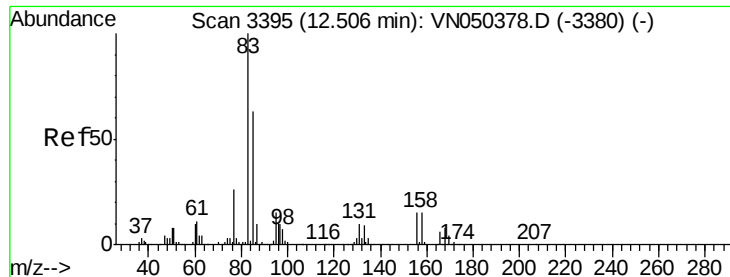
200000

100000

0

Time-->





#75

1,1,2,2-Tetrachloroethane

Concen: 44.13 ug/l

RT: 12.51 min Scan# 3395

Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

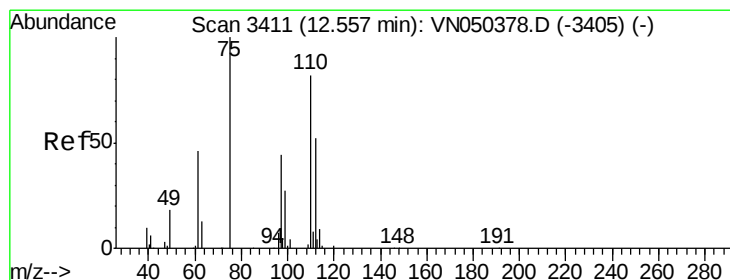
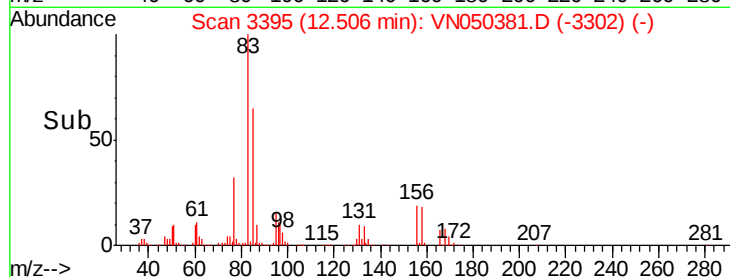
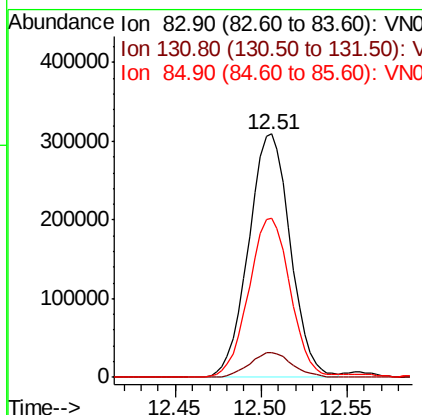
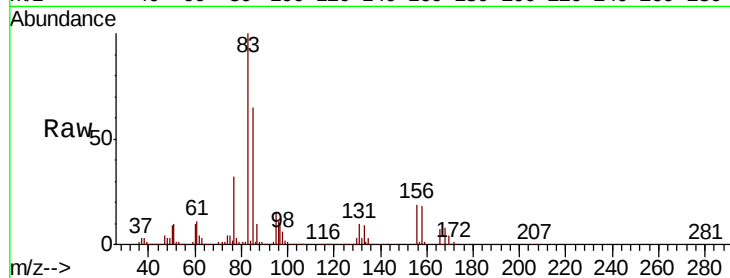
ClientSampleId :

ICVVN080618

Tot Ion:	83	Resp:	520448
Ion Ratio	Lower	Upper	
83	100		
131	10.6	5.1	15.3
85	65.1	32.3	96.8

Manual Integrations
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#76

1,2,3-Trichloropropane

Concen: 43.64 ug/l m

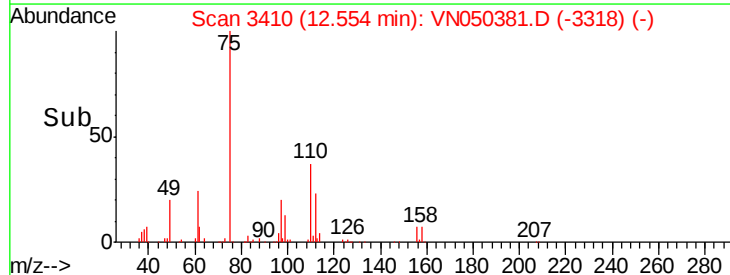
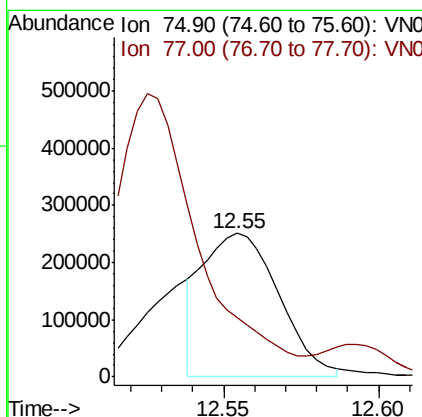
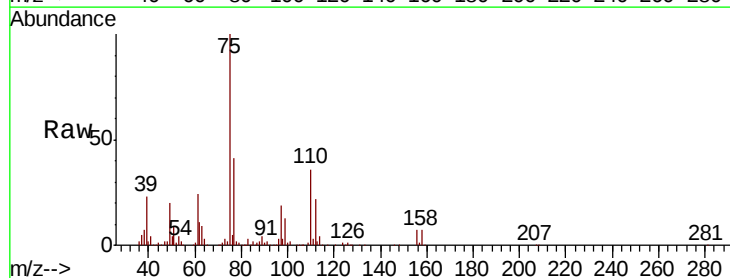
RT: 12.55 min Scan# 3410

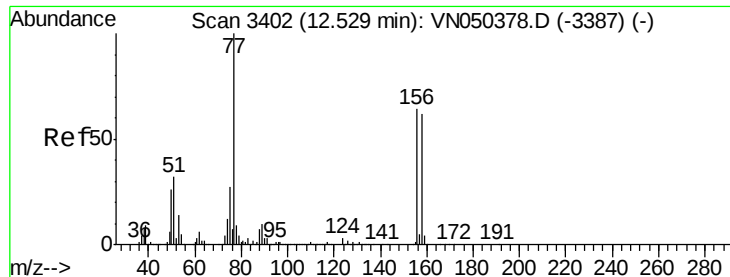
Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Tgt Ion:	75	Resp:	430187
Ion Ratio	Lower	Upper	
75	100		
77	0.0	0.0	0.0





#77

Bromobenzene

Concen: 48.77 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

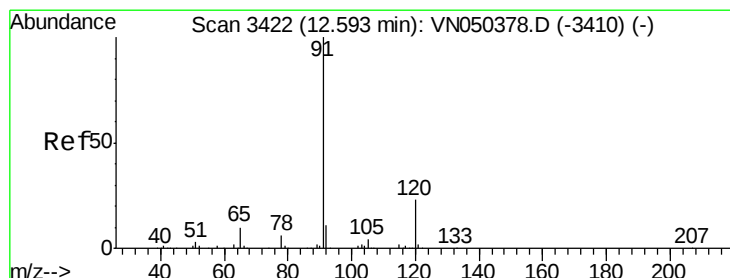
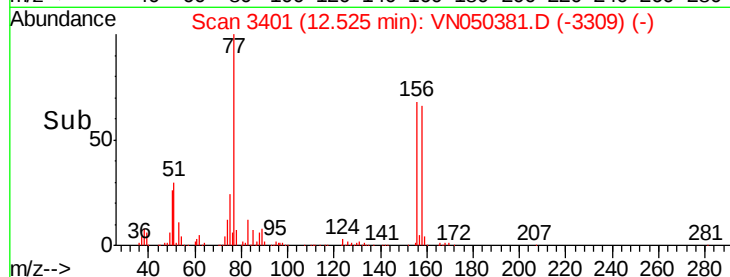
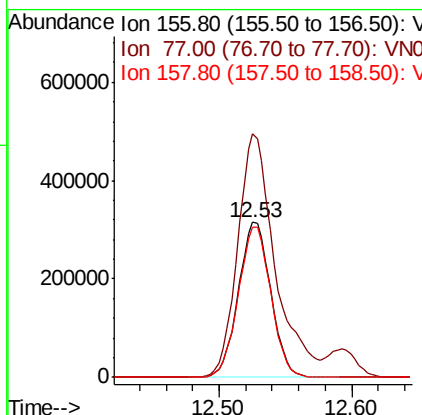
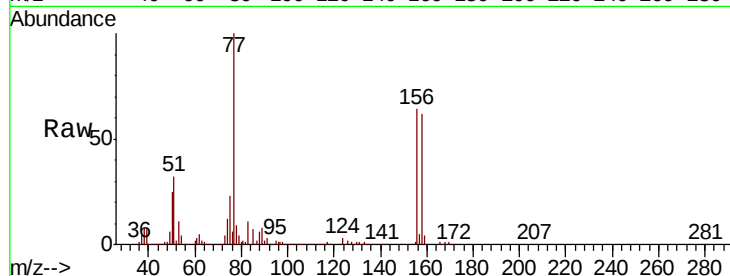
ClientSampleId :

ICVVN080618

Tot Ion	Ion	Ratio	Resp	Lower	Upper
156	100				
77	182.3	91.7	275.1		
158	97.1	48.9	146.6		

Manual Integrations
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MMDadoda
8/7/2018 9:58:32 AM



#78

n-propylbenzene

Concen: 51.97 ug/l

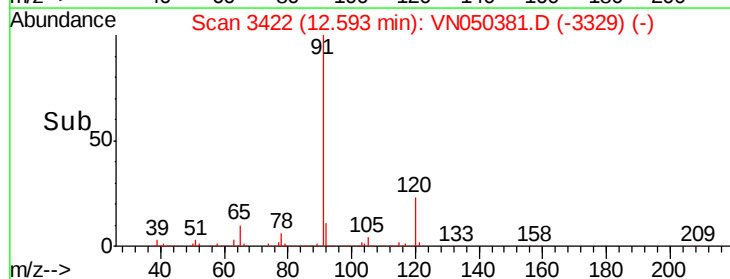
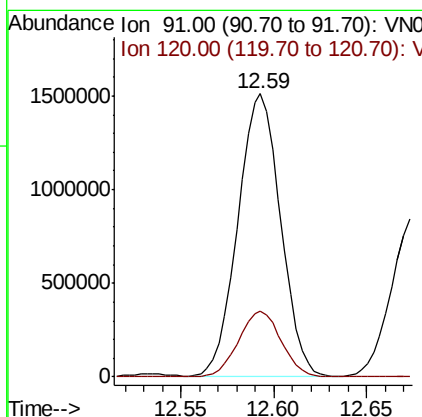
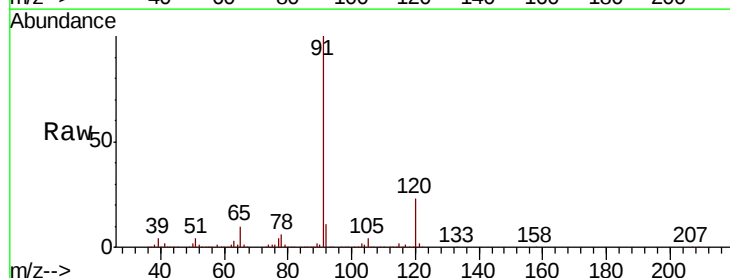
RT: 12.59 min Scan# 3422

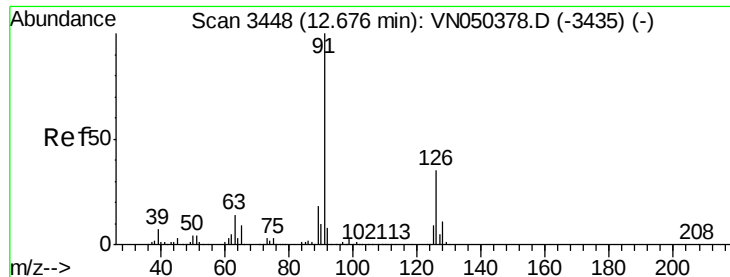
Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
91	100				
120	23.2	11.6	34.7		





#79

2-Chlorotoluene

Concen: 49.77 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampled :

ICVVN080618

Tot Ion: 91 Resp: 1422526

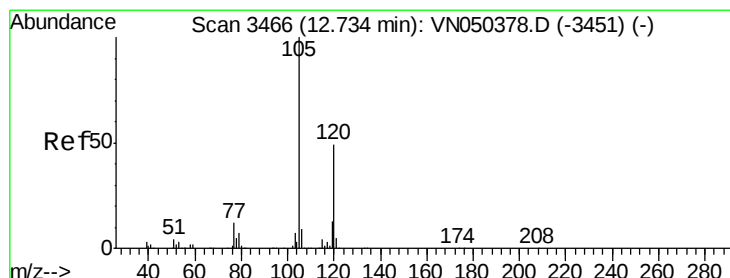
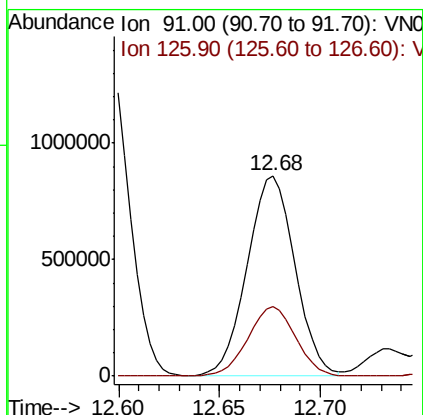
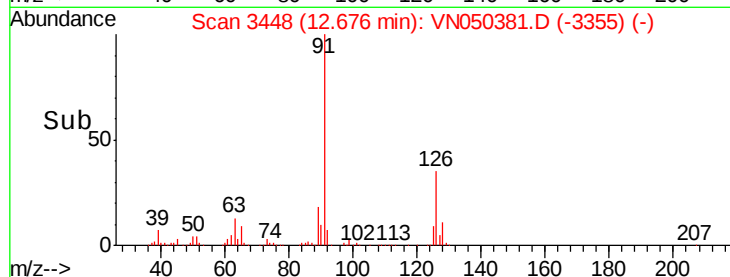
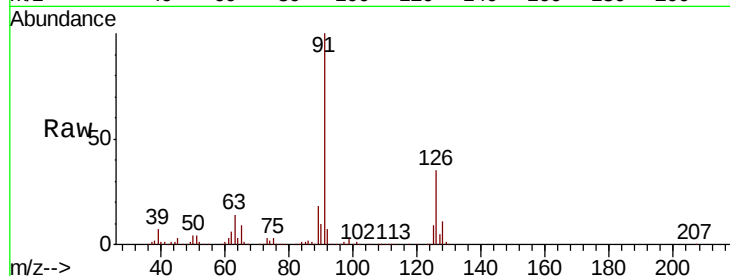
Ion Ratio Lower Upper

91 100

126 34.7 17.6 52.8

Manual Integrations
APPROVED

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#80

1,3,5-Trimethylbenzene

Concen: 52.66 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050381.D

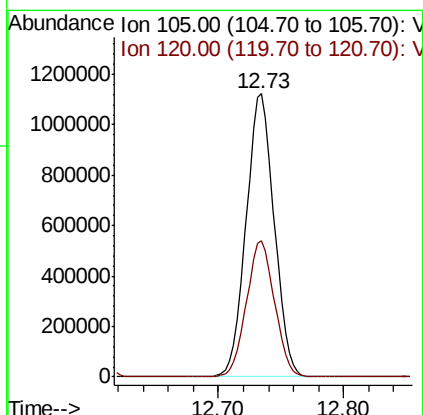
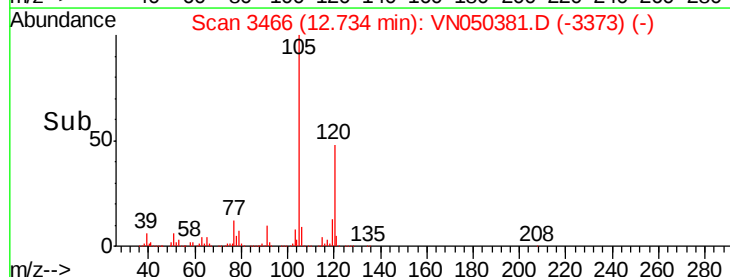
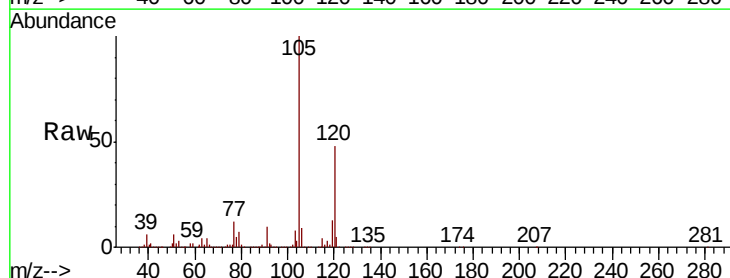
Acq: 6 Aug 2018 14:04

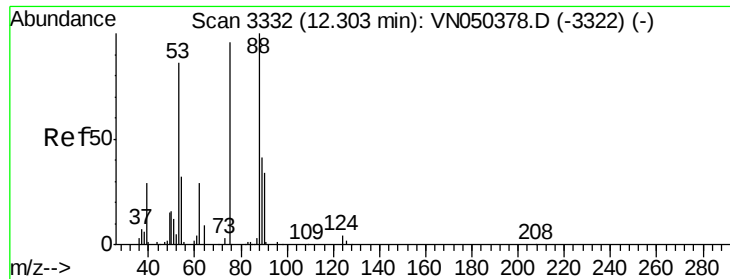
Tgt Ion: 105 Resp: 1747544

Ion Ratio Lower Upper

105 100

120 48.2 24.4 73.2





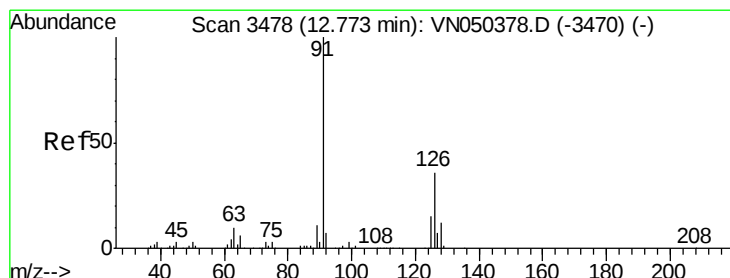
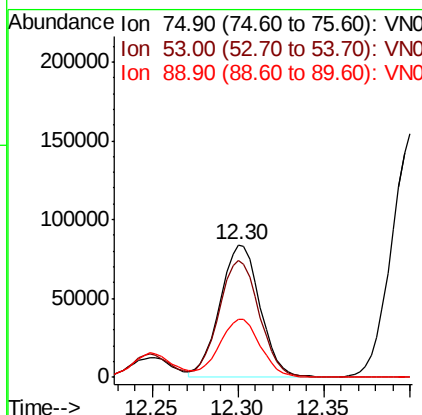
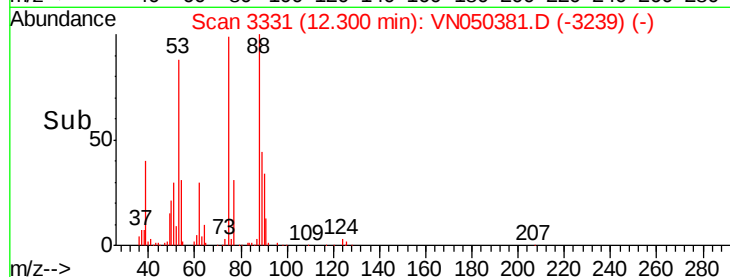
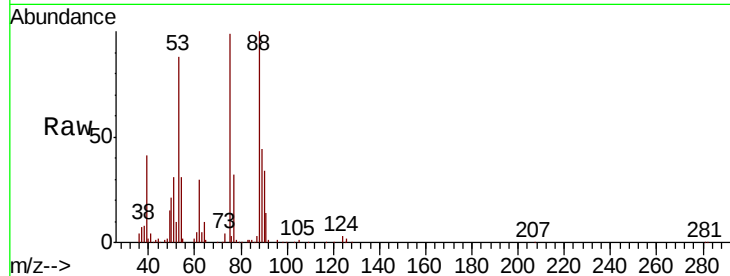
#81
trans-1,4-Dichloro-2-butene
Concen: 48.96 ug/l
RT: 12.30 min Scan# 3331
Delta R.T. -0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampleId :
ICVVN080618

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.7	73.5	110.3
89	45.2	36.0	54.0

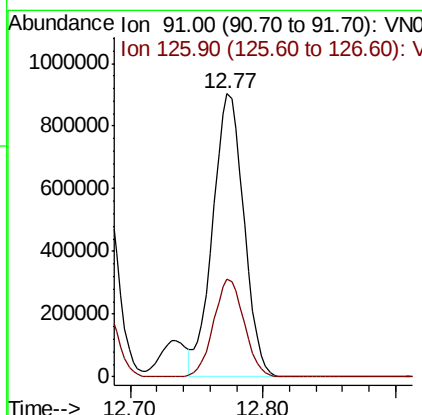
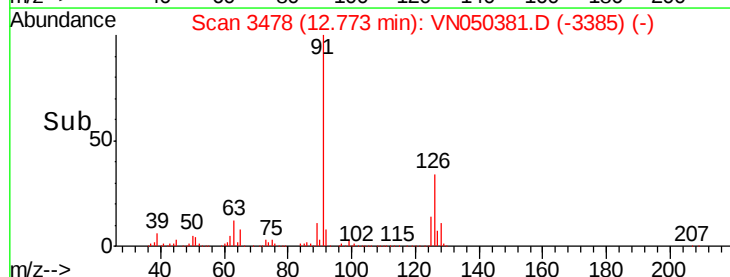
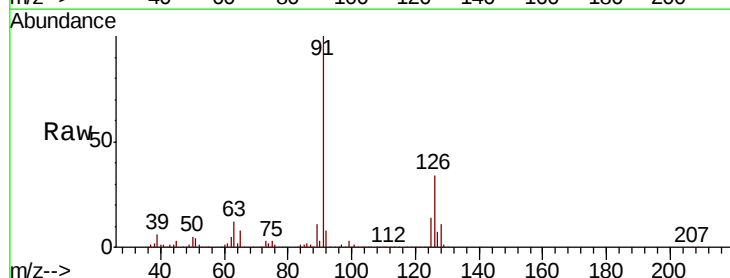
Manual Integrations
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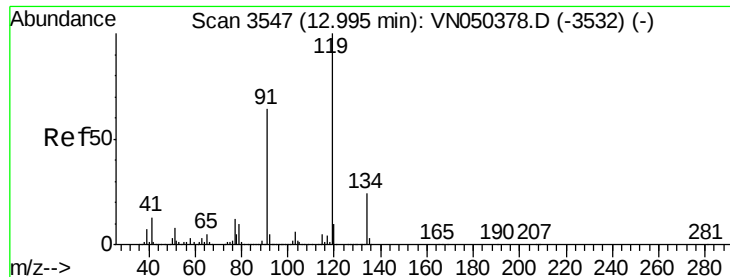
MMDadoda
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#82
4-Chlorotoluene
Concen: 51.78 ug/l
RT: 12.77 min Scan# 3478
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Lower	Upper
91	100		
126	33.9	17.0	51.0





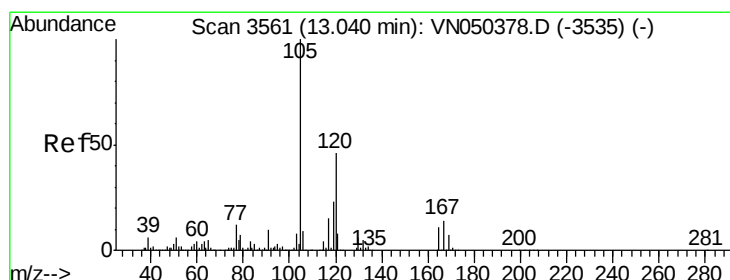
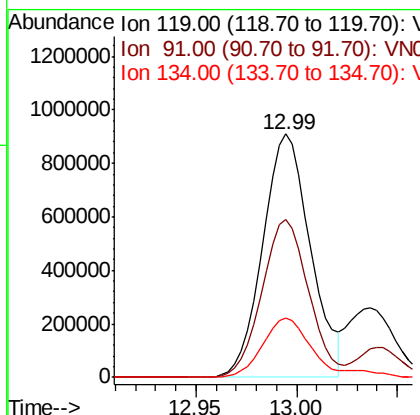
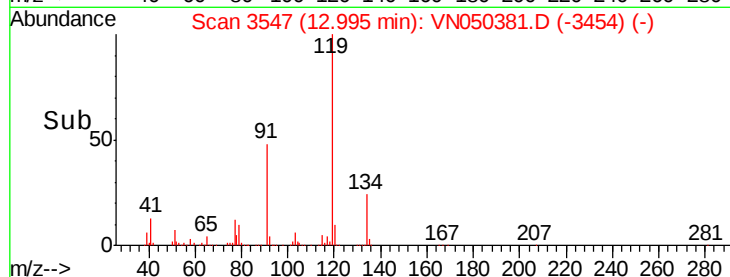
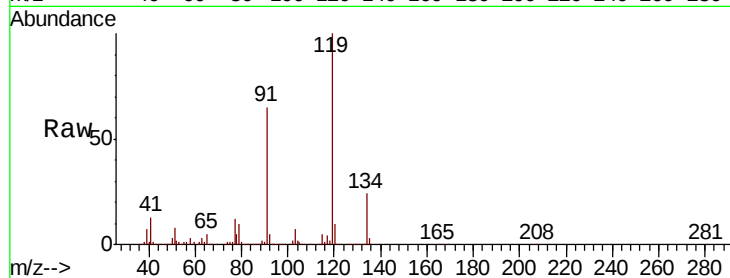
#83
 tert-Butylbenzene
 Concen: 51.72 ug/l
 RT: 12.99 min Scan# 3547
 Delta R.T. 0.00 min
 Lab File: VN050381.D
 Acq: 6 Aug 2018 14:04

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080618

Tot Ion	Ratio	Lower	Upper
119	100		
91	63.5	32.1	96.3
134	26.1	13.2	39.5

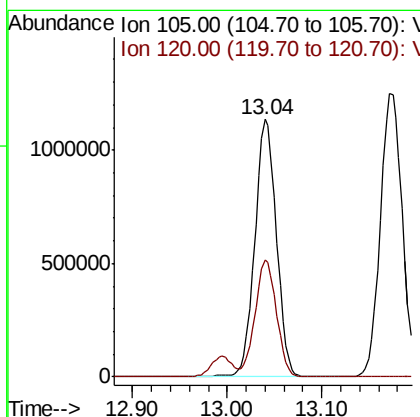
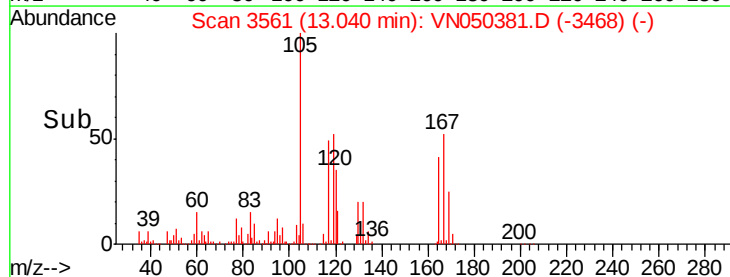
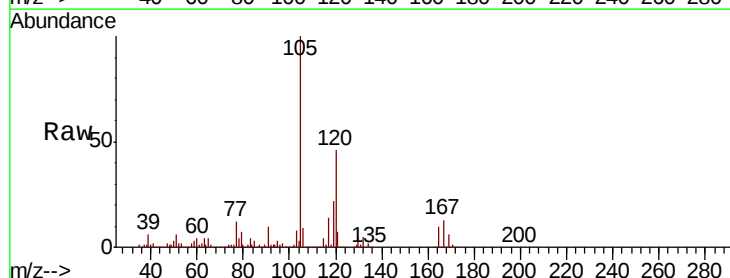
Manual Integrations
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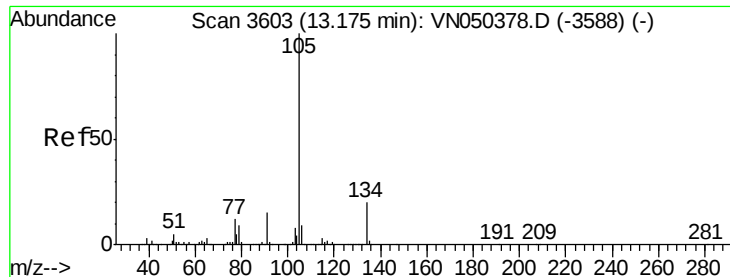
MMDadoda
 8/7/2018 9:58:32 AM



#84
 1,2,4-Trimethylbenzene
 Concen: 53.38 ug/l
 RT: 13.04 min Scan# 3561
 Delta R.T. 0.00 min
 Lab File: VN050381.D
 Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Lower	Upper
105	100		
120	45.4	22.9	68.7





#85

sec-Butylbenzene

Concen: 51.92 ug/l

RT: 13.17 min Scan# 3602

Delta R.T. -0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

ClientSampleId :

ICVVN080618

Tot Ion:105 Resp: 2003366

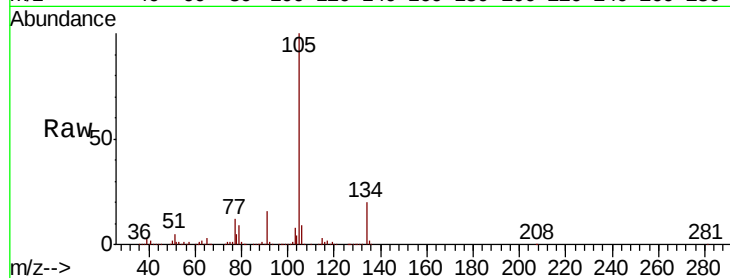
Ion Ratio Lower Upper

105 100

134 20.2 10.1 30.1

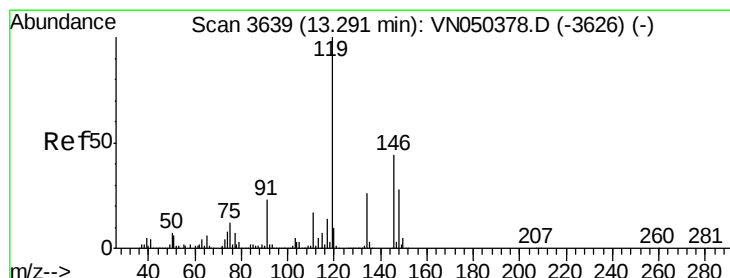
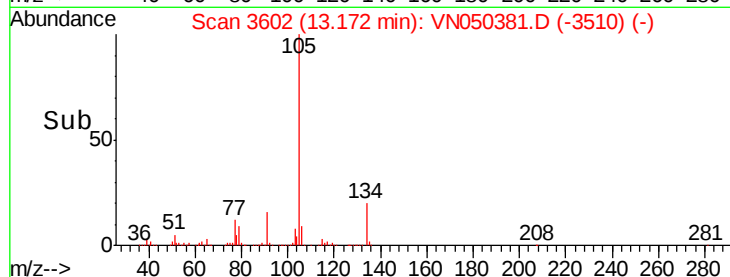
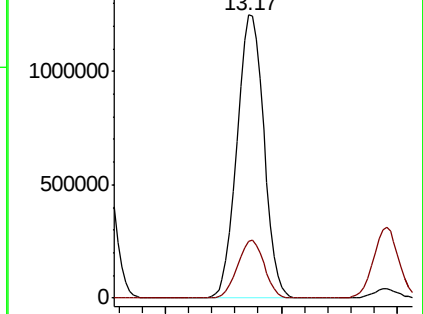
Manual Integrations
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Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



#86

p-Isopropyltoluene

Concen: 53.81 ug/l

RT: 13.29 min Scan# 3639

Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

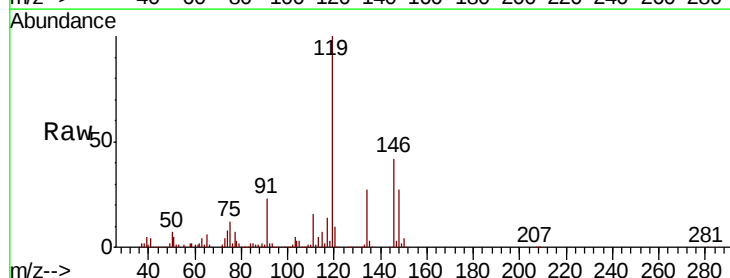
Tgt Ion:119 Resp: 1779449

Ion Ratio Lower Upper

119 100

134 26.6 13.3 39.8

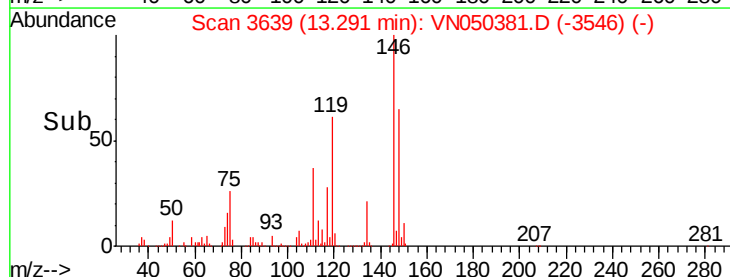
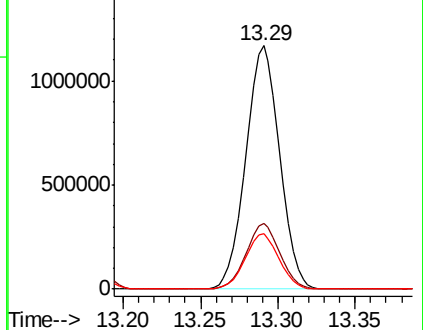
91 22.7 11.4 34.2

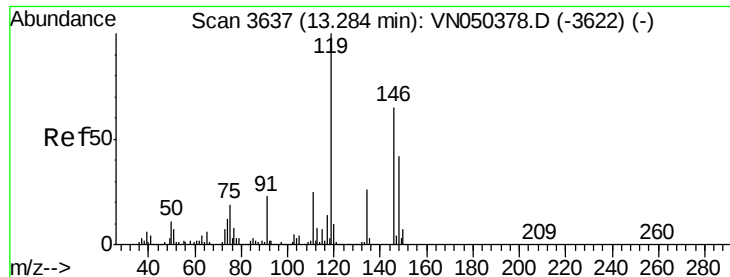


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 50.00 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

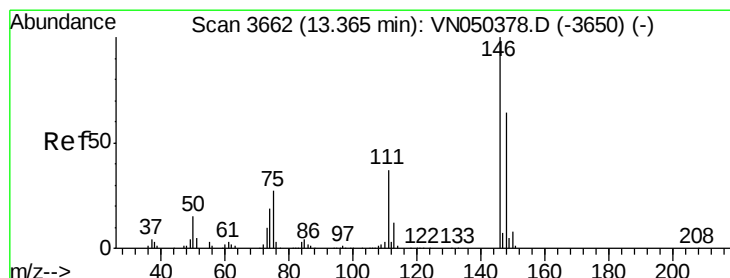
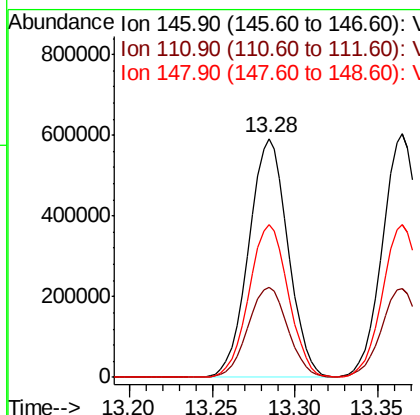
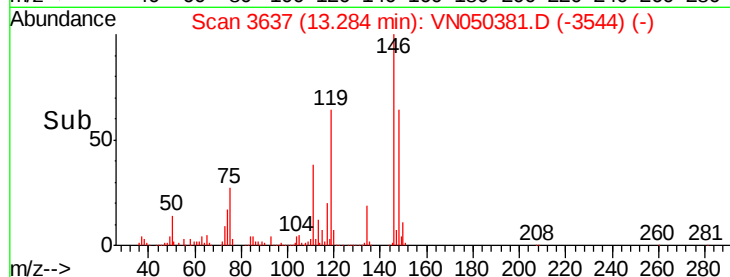
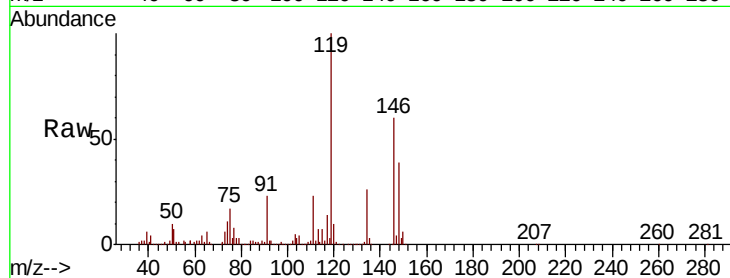
ClientSampleId :

ICVVN080618

Tot Ion:	146	Resp:	975380
Ion Ratio	Lower	Upper	
146	100		
111	38.1	18.8	56.4
148	64.2	31.9	95.9

Manual Integrations
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#88

1,4-Dichlorobenzene

Concen: 49.42 ug/l

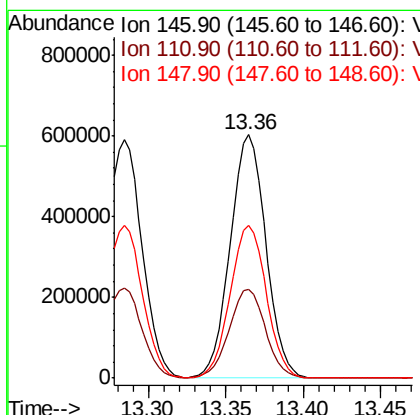
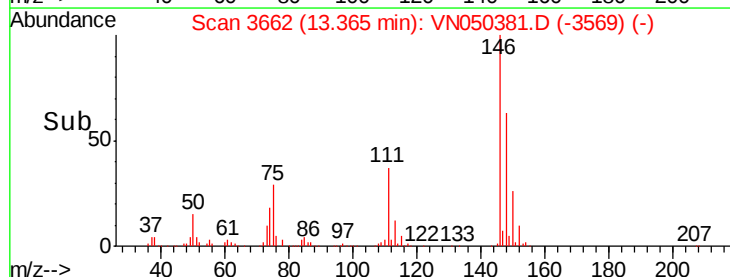
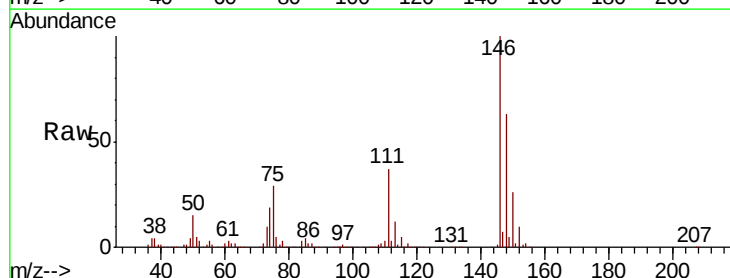
RT: 13.36 min Scan# 3662

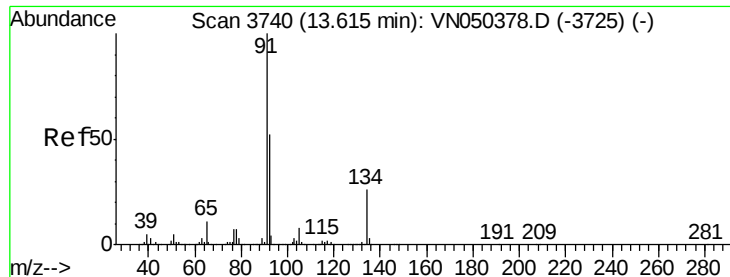
Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Tgt Ion:	146	Resp:	962716
Ion Ratio	Lower	Upper	
146	100		
111	37.1	18.3	54.9
148	63.7	31.9	95.9





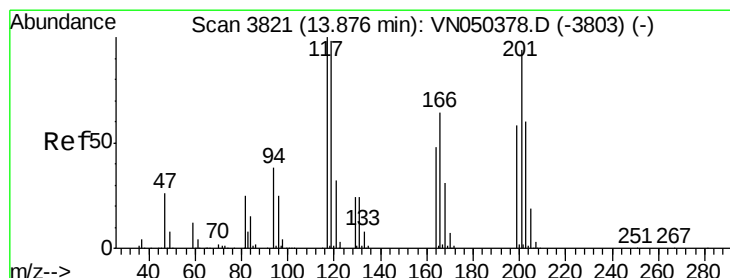
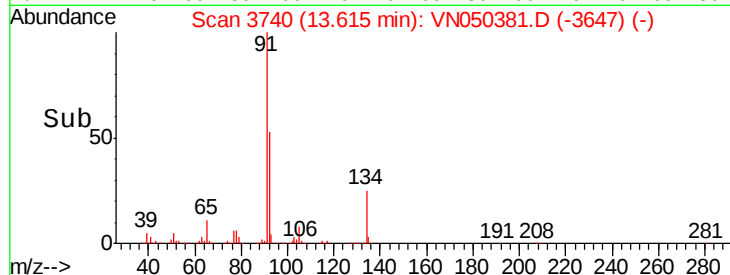
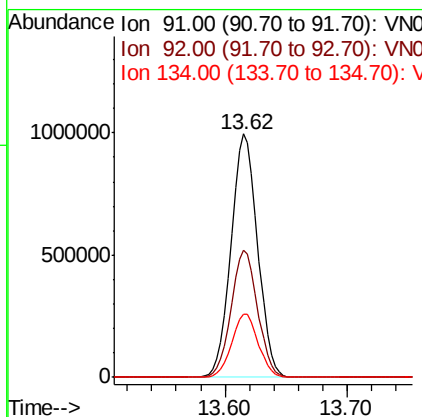
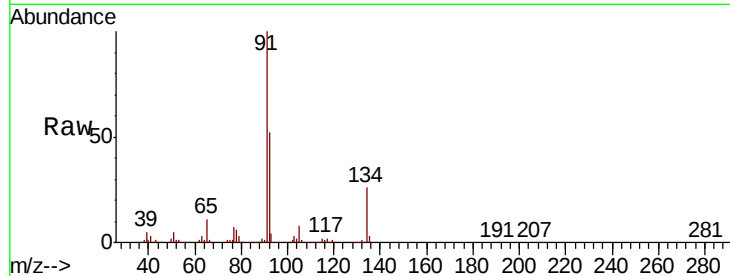
#89
n-Butylbenzene
Concen: 53.47 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Instrument :
MSVOA_N
ClientSampled :
ICVVN080618

Tot Ion	Ratio	Lower	Upper
91	100		
92	52.0	25.8	77.4
134	26.1	12.8	38.4

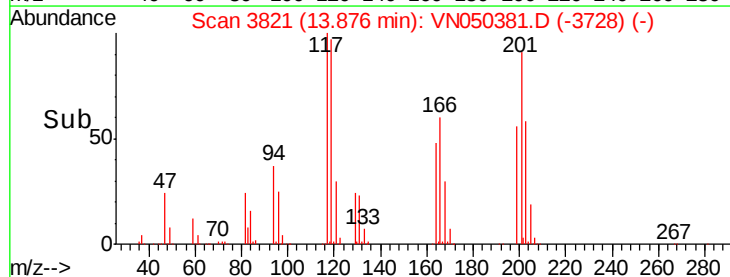
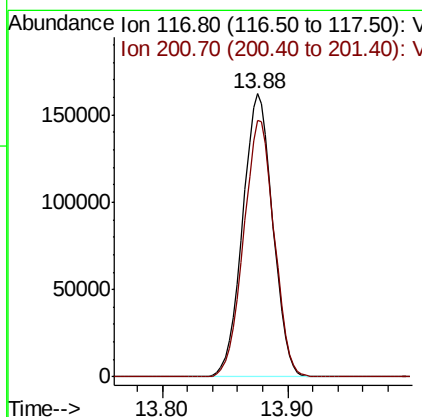
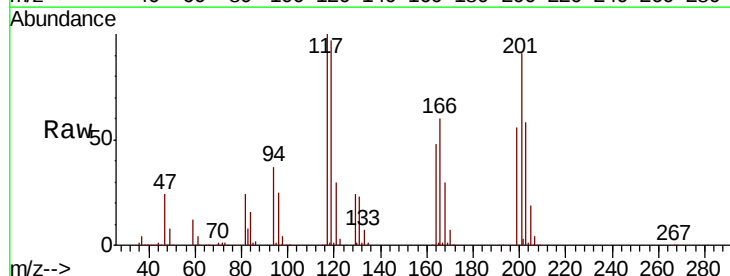
Manual Integrations
APPROVED

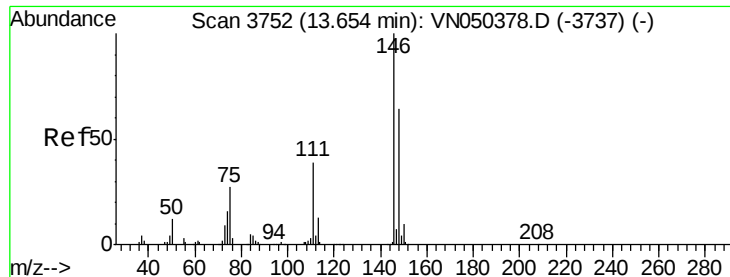
MMDadoda
8/7/2018 9:58:32 AM



#90
Hexachloroethane
Concen: 46.08 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050381.D
Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Lower	Upper
117	100		
201	91.7	45.6	136.8





#91

1,2-Dichlorobenzene

Concen: 48.69 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

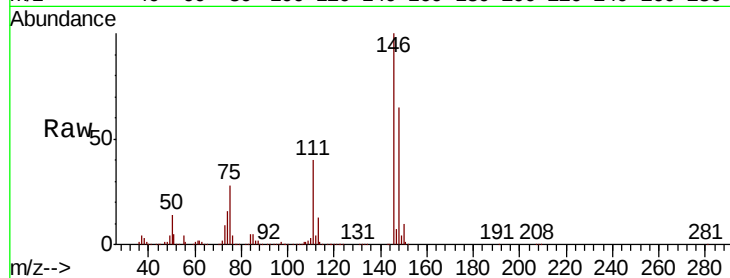
ClientSampleId :

ICVVN080618

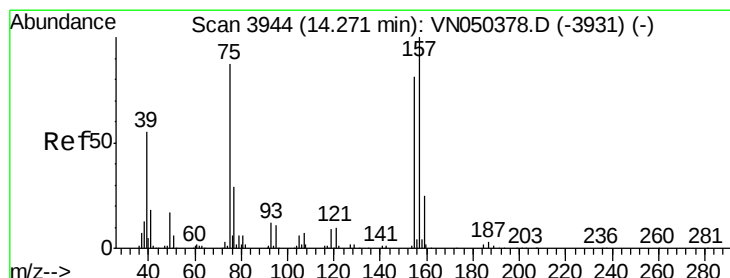
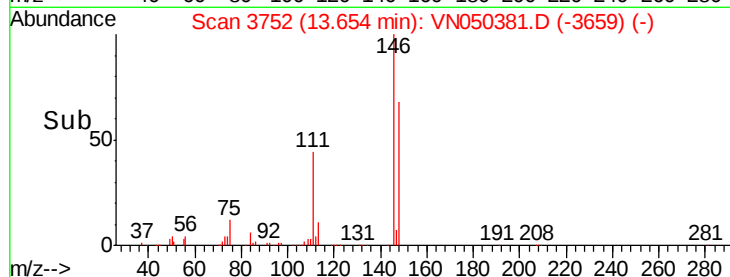
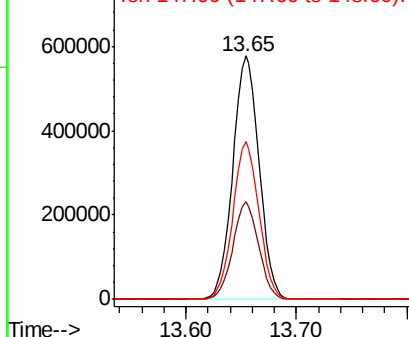
Tot Ion:	146	Resp:	952010
Ion Ratio	Lower	Upper	
146	100		
111	39.4	19.6	58.7
148	64.0	32.1	96.3

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Abundance Ion 145.90 (145.60 to 146.60): V
Ion 110.90 (110.60 to 111.60): V
Ion 147.90 (147.60 to 148.60): V



#92

1,2-Dibromo-3-Chloropropane

Concen: 41.32 ug/l

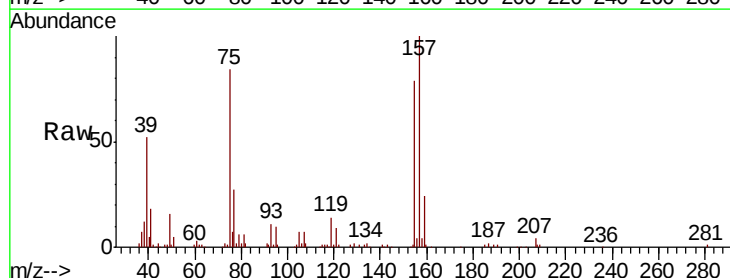
RT: 14.27 min Scan# 3944

Delta R.T. 0.00 min

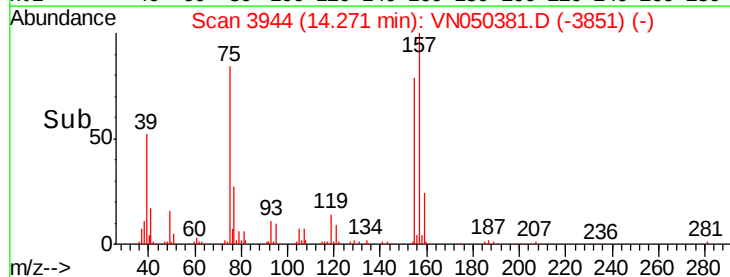
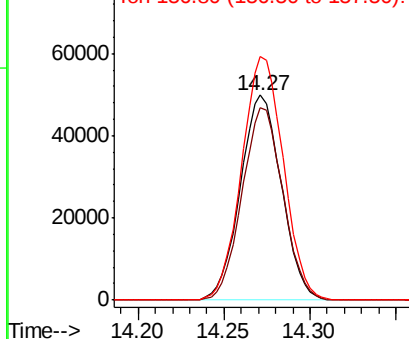
Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Tgt Ion:	75	Resp:	82747
Ion Ratio	Lower	Upper	
75	100		
155	92.8	44.8	134.4
157	120.5	57.2	171.6



Abundance Ion 74.90 (74.60 to 75.60): V
Ion 154.80 (154.50 to 155.50): V
Ion 156.80 (156.50 to 157.50): V





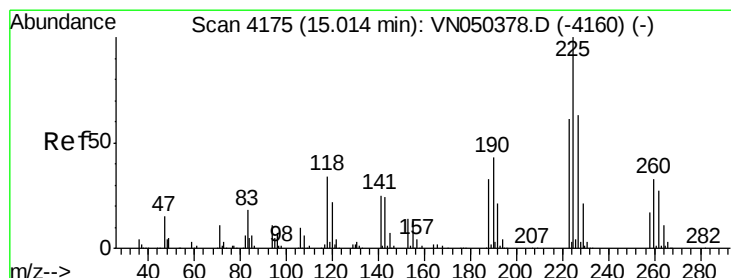
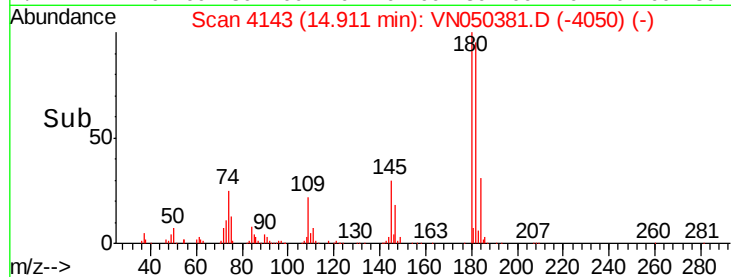
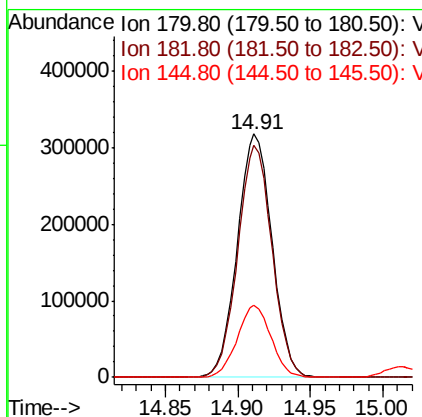
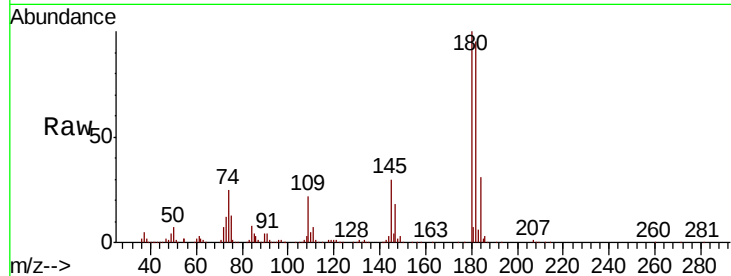
#93
 1,2,4-Trichlorobenzene
 Concen: 52.86 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050381.D
 Acq: 6 Aug 2018 14:04

Instrument :
 MSVOA_N
 ClientSampleId :
 ICVVN080618

Tot Ion	Ratio	Resp	Lower	Upper
180	100			
182	94.1	46.7	140.1	
145	28.8	13.8	41.4	

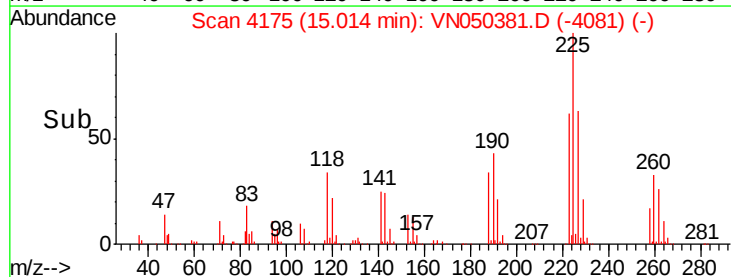
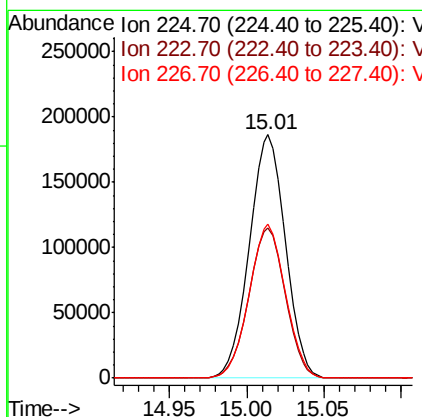
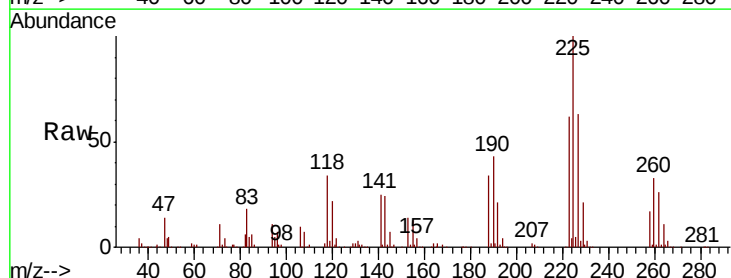
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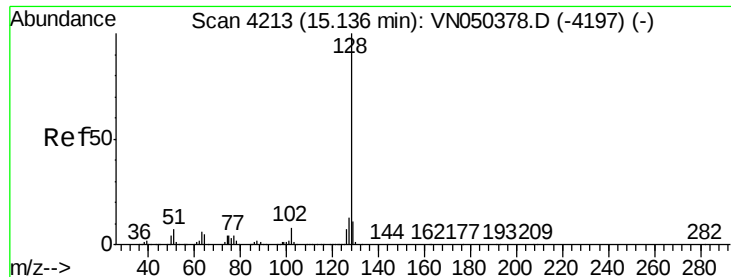
MMDadoda
 8/7/2018 9:58:32 AM



#94
 Hexachlorobutadiene
 Concen: 56.03 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN050381.D
 Acq: 6 Aug 2018 14:04

Tgt Ion	Ratio	Resp	Lower	Upper
225	100			
223	62.2	31.4	94.2	
227	63.4	32.1	96.5	





#95

Naphthalene

Concen: 43.91 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Instrument :

MSVOA_N

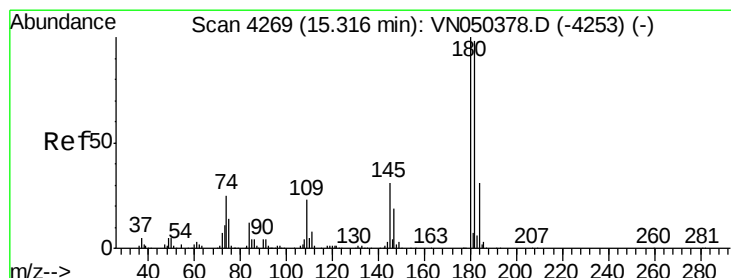
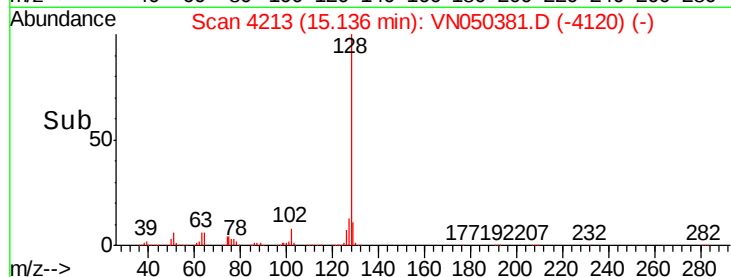
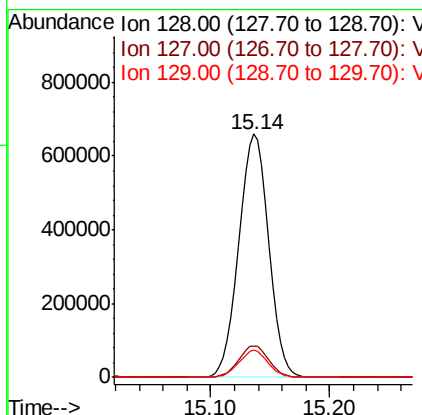
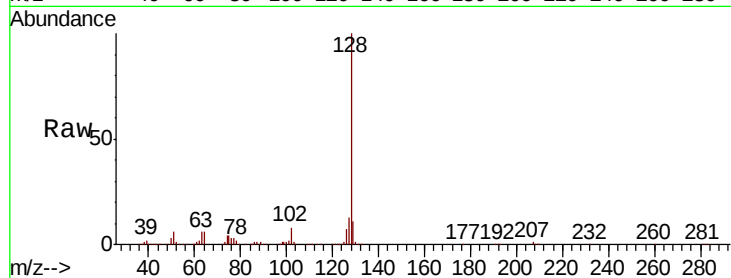
ClientSampleId :

ICVVN080618

Tot Ion:	128	Resp:	1145261
Ion Ratio	Lower	Upper	
128	100		
127	13.0	10.4	15.6
129	10.8	8.8	13.2

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#96

1,2,3-Trichlorobenzene

Concen: 47.98 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. 0.00 min

Lab File: VN050381.D

Acq: 6 Aug 2018 14:04

Tgt Ion:	180	Resp:	483121
Ion Ratio	Lower	Upper	
180	100		
182	95.3	48.1	144.4
145	30.2	15.3	45.9

