

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN091018\
 Data File : VN051107.D
 Acq On : 11 Sep 2018 4:03
 Operator : MD\SY
 Sample : J4693-11MS
 Misc : 5.93g/5mL/100uL/5.00mL/MSVOA_N/MEOH
 ALS Vial : 47 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-C(15-20)MS

Manual Integrations
 APPROVED

Quant Time: Sep 11 06:41:29 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Pentafluorobenzene	7.66	168	579397	50.00	ug/l	0.00
34) 1,4-Difluorobenzene	8.58	114	853990	50.00	ug/l	0.00
63) Chlorobenzene-d5	11.41	117	812865	50.00	ug/l	0.00
72) 1,4-Dichlorobenzene-d4	13.34	152	590225	50.00	ug/l	0.00

System Monitoring Compounds

33) 1,2-Dichloroethane-d4	8.03	65	333620	51.74	ug/l	0.00
Spiked Amount	50.000		Recovery	=	103.48%	
35) Dibromofluoromethane	7.59	113	315364	49.14	ug/l	0.00
Spiked Amount	50.000		Recovery	=	98.28%	
50) Toluene-d8	10.09	98	1407746	57.81	ug/l	0.00
Spiked Amount	50.000		Recovery	=	115.62%	
62) 4-Bromofluorobenzene	12.39	95	1077616	133.78	ug/l	0.00
Spiked Amount	50.000		Recovery	=	267.56%	

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Target Compounds

						Qvalue
2) Dichlorodifluoromethane	1.85	85	238884	42.75	ug/l	97
3) Chloromethane	2.05	50	328678	45.50	ug/l	100
4) Vinyl Chloride	2.18	62	323910	42.23	ug/l	98
5) Bromomethane	2.51	94	94551	21.28	ug/l	96
6) Chloroethane	2.63	64	208536	44.05	ug/l	100
7) Trichlorofluoromethane	2.97	101	459912	45.25	ug/l	99
8) Diethyl Ether	3.40	74	187182	50.08	ug/l	98
9) 1,1,2-Trichlorotrifluoroet	3.73	101	293192	44.75	ug/l	100
10) Methyl Iodide	3.93	142	259402	43.20	ug/l	100
11) Tert butyl alcohol	4.82	59	120936	245.56	ug/l #	86
12) 1,1-Dichloroethene	3.72	96	284977	46.11	ug/l	99
13) Acrolein	3.60	56	152173	252.84	ug/l	99
14) Allyl chloride	4.31	41	435689	46.27	ug/l	100
15) Acrylonitrile	4.99	53	576443	264.15	ug/l	99
16) Acetone	3.82	43	376722	235.97	ug/l	99
17) Carbon Disulfide	4.03	76	846698	46.49	ug/l	99
18) Methyl Acetate	4.33	43	272368	52.75	ug/l	99
19) Methyl tert-butyl Ether	5.05	73	830696	50.85	ug/l	100
20) Methylene Chloride	4.54	84	340938	47.87	ug/l	99
21) trans-1,2-Dichloroethene	5.03	96	313782	46.81	ug/l	99
22) Diisopropyl ether	5.95	45	965870	51.68	ug/l	93
23) Vinyl Acetate	5.89	43	3241883	256.30	ug/l	100
24) 1,1-Dichloroethane	5.84	63	570411	48.10	ug/l	99
25) 2-Butanone	6.84	43	618020	243.79	ug/l	99
26) 2,2-Dichloropropane	6.82	77	333027	34.31	ug/l	97
27) cis-1,2-Dichloroethene	6.82	96	360098	48.97	ug/l	97
28) Bromochloromethane	7.19	49	254837	48.28	ug/l	99
29) Tetrahydrofuran	7.21	42	420859	265.85	ug/l	100
30) Chloroform	7.37	83	572252	48.51	ug/l	99
31) Cyclohexane	7.65	56	527568	49.89	ug/l	100
32) 1,1,1-Trichloroethane	7.57	97	484155	48.16	ug/l	99
36) 1,1-Dichloropropene	7.79	75	449359	47.93	ug/l	100
37) Ethyl Acetate	6.93	43	277510	51.11	ug/l	99
38) Carbon Tetrachloride	7.77	117	421251	45.65	ug/l	98

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 Quant Title : SW846 8260
 QLast Update : Tue Sep 11 02:27:09 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)	
39) Methylcyclohexane	9.08	83	889797	86.01	ug/l	99	
40) Benzene	8.04	78	1378080	48.78	ug/l	99	
41) Methacrylonitrile	7.17	41	147006	52.47	ug/l	93	
42) 1,2-Dichloroethane	8.12	62	406604	49.37	ug/l	100	
43) Isopropyl Acetate	8.17	43	507544	52.97	ug/l #	88	
44) Trichloroethene	8.83	130	370895	47.99	ug/l	98	MMDadoda
45) 1,2-Dichloropropane	9.12	63	366174	50.16	ug/l	99	
46) Dibromomethane	9.21	93	213398	47.91	ug/l	98	
47) Bromodichloromethane	9.40	83	443305	48.95	ug/l	98	
48) Methyl methacrylate	9.20	41	247045	52.91	ug/l	98	
49) 1,4-Dioxane	9.21	88	77415	1057.29	ug/l	98	9/11/2018 9:41:53 AM
51) 4-Methyl-2-Pentanone	9.99	43	1329819	250.98	ug/l	100	
52) Toluene	10.16	92	890587	51.69	ug/l	99	
53) t-1,3-Dichloropropene	10.38	75	458698	50.60	ug/l	100	
54) cis-1,3-Dichloropropene	9.84	75	518897	48.82	ug/l	99	
55) 1,1,2-Trichloroethane	10.53	97	531581	84.94	ug/l #	21	
56) Ethyl methacrylate	10.43	69	736433	85.84	ug/l #	80	
57) 1,3-Dichloropropane	10.71	76	540990	52.14	ug/l	99	
58) 2-Chloroethyl Vinyl ether	9.70	63	923989	261.01	ug/l	99	
59) 2-Hexanone	10.75	43	796979	221.79	ug/l	84	
60) Dibromochloromethane	10.90	129	347307	49.24	ug/l	98	
61) 1,2-Dibromoethane	11.01	107	317103	51.83	ug/l	96	
64) Tetrachloroethene	10.63	164	352090	47.47	ug/l	98	
65) Chlorobenzene	11.43	112	987421	48.19	ug/l	99	
66) 1,1,1,2-Tetrachloroethane	11.51	131	342363	46.41	ug/l	99	
67) Ethyl Benzene	11.51	91	1692880	51.02	ug/l	99	
68) m/p-Xylenes	11.62	106	1270332	99.64	ug/l	97	
69) o-Xylene	11.95	106	607478	49.20	ug/l	91	
70) Styrene	11.96	104	985037	51.43	ug/l	96	
71) Bromoform	12.13	173	227894	43.88	ug/l #	99	
73) Isopropylbenzene	12.25	105	5582580	112.78	ug/l	100	
74) N-amyl acetate	12.05	43	4473859	359.15	ug/l #	51	
75) 1,1,2,2-Tetrachloroethane	12.50	83	1019573	91.09	ug/l #	91	
76) 1,2,3-Trichloropropane	12.55	75	334074m	36.09	ug/l		
77) Bromobenzene	12.53	156	407500	30.65	ug/l	82	
78) n-propylbenzene	12.59	91	15008894	275.86	ug/l	98	
79) 2-Chlorotoluene	12.68	91	1080367	31.77	ug/l	99	
80) 1,3,5-Trimethylbenzene	12.73	105	1246902	31.16	ug/l	99	
81) trans-1,4-Dichloro-2-buten	12.30	75	88730	28.55	ug/l #	36	
82) 4-Chlorotoluene	12.77	91	1061117	31.43	ug/l	91	
83) tert-Butylbenzene	12.99	119	1897779	53.72	ug/l	95	
84) 1,2,4-Trimethylbenzene	13.04	105	1282719	32.60	ug/l	100	
85) sec-Butylbenzene	13.17	105	7492265	165.36	ug/l #	74	
86) p-Isopropyltoluene	13.29	119	1322564	34.43	ug/l	98	
87) 1,3-Dichlorobenzene	13.28	146	700553	31.06	ug/l #	40	
88) 1,4-Dichlorobenzene	13.36	146	695898	33.61	ug/l #	35	
89) n-Butylbenzene	13.62	91	4879409	163.19	ug/l	92	
90) Hexachloroethane	13.89	117	1110041	160.06	ug/l #	20	
91) 1,2-Dichlorobenzene	13.65	146	686161	31.22	ug/l #	24	
92) 1,2-Dibromo-3-Chloropropan	14.27	75	57723	34.35	ug/l	99	

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Manual Integrations
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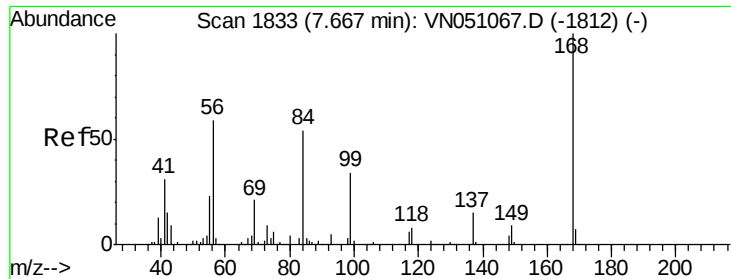
Quant Time: Sep 11 06:41:29 2018
Quant Method : Z:\VOASRV\HPCHEM1\MSVOA_N\METHODS\82N091018W.M
Quant Title : SW846 8260
QLast Update : Tue Sep 11 02:27:09 2018
Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
93) 1,2,4-Trichlorobenzene	14.91	180	417889	40.19	ug/l #	43
94) Hexachlorobutadiene	15.01	225	258003	39.93	ug/l	99
95) Naphthalene	15.13	128	928480	42.71	ug/l	99
96) 1,2,3-Trichlorobenzene	15.31	180	397546	39.82	ug/l #	80

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

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#1

Pentafluorobenzene

Concen: 50.00 ug/l

RT: 7.66 min Scan# 1832

Delta R.T. -0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

MSVOA_N

ClientSampleId :

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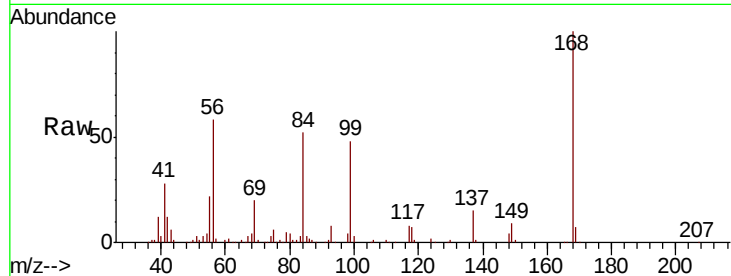
Tot Ion:168 Resp: 579397

Ion Ratio Lower Upper

168 100

99 47.5 38.3 57.5

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Abundance Ion 167.90 (167.60 to 168.60): VN051107.D (-1740) (-)

Ion 98.90 (98.60 to 99.60): VN051107.D (-1740) (-)

250000

200000

150000

100000

50000

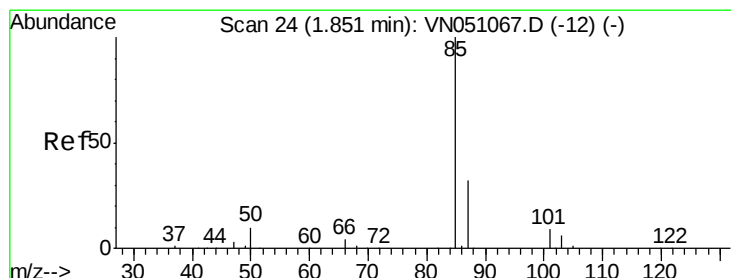
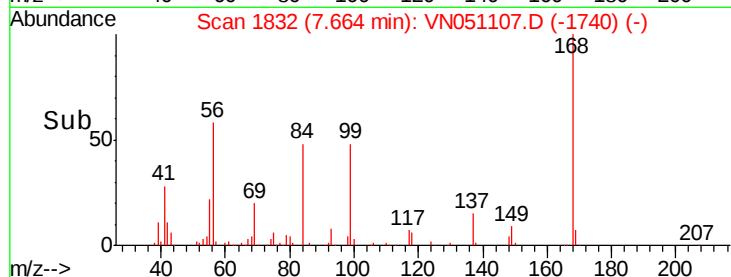
0

7.66

7.60

7.70

Time-->



#2

Dichlorodifluoromethane

Concen: 42.75 ug/l

RT: 1.85 min Scan# 23

Delta R.T. -0.00 min

Lab File: VN051107.D

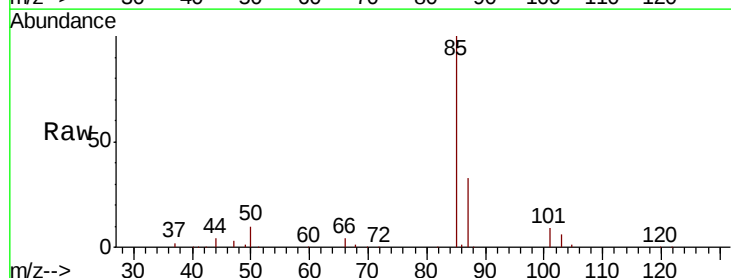
Acq: 11 Sep 2018 4:03

Tgt Ion: 85 Resp: 238884

Ion Ratio Lower Upper

85 100

87 33.3 15.9 47.6



Abundance Ion 84.90 (84.60 to 85.60): VN051107.D (-1) (-)

Ion 86.90 (86.60 to 87.60): VN051107.D (-1) (-)

150000

100000

50000

0

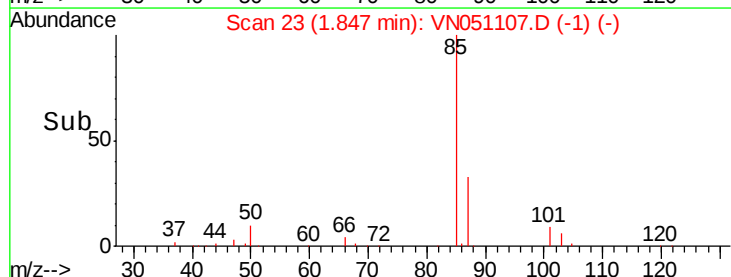
1.85

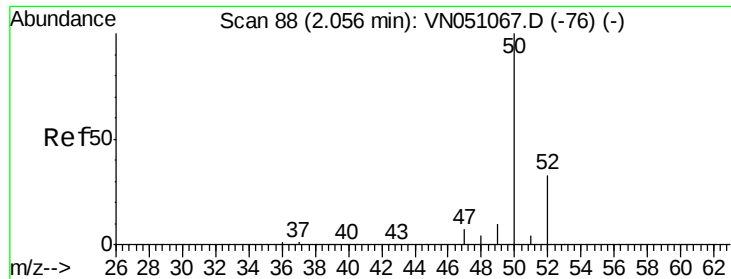
1.80

1.90

1.95

Time-->





#3

Chloromethane

Concen: 45.50 ug/l

RT: 2.05 min Scan# 87

Delta R.T. -0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

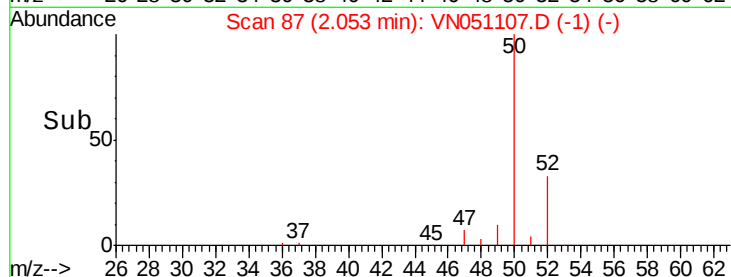
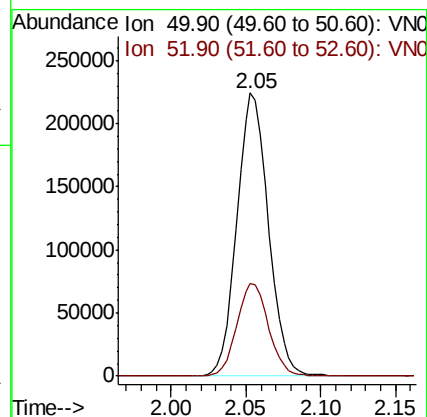
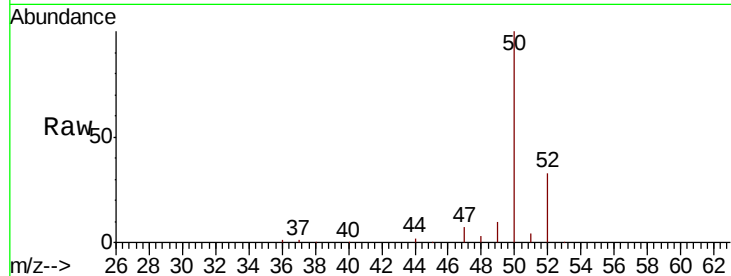
Tot Ion: 50 Resp: 328678

Ion Ratio Lower Upper

50 100

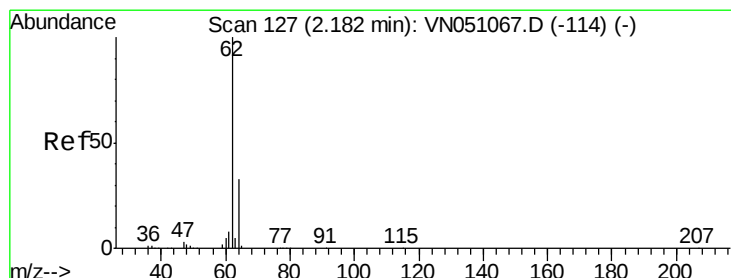
52 32.8 26.0 39.0

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#4

Vinyl Chloride

Concen: 42.23 ug/l

RT: 2.18 min Scan# 128

Delta R.T. 0.00 min

Lab File: VN051107.D

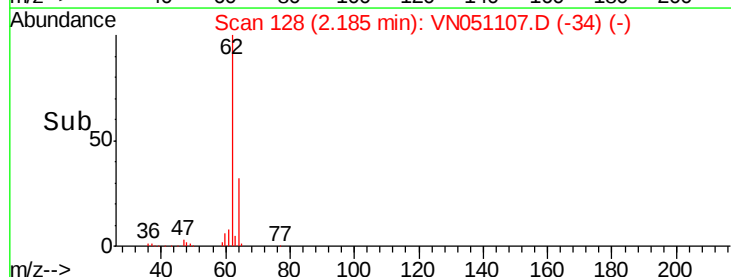
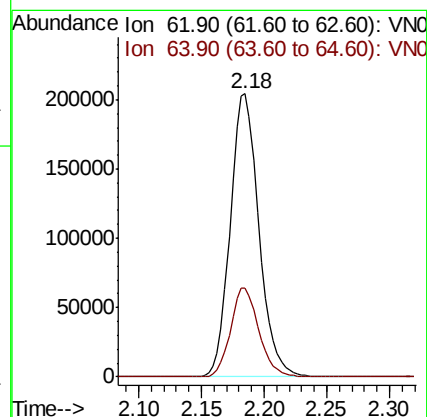
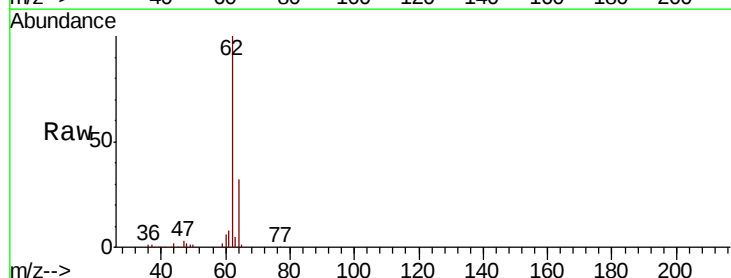
Acq: 11 Sep 2018 4:03

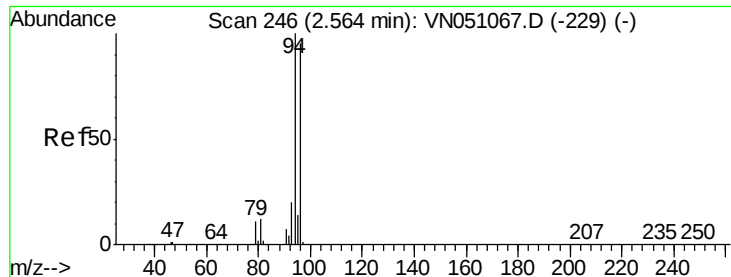
Tgt Ion: 62 Resp: 323910

Ion Ratio Lower Upper

62 100

64 31.5 26.2 39.4





#5

Bromomethane

Concen: 21.28 ug/l

RT: 2.51 min Scan# 230

Delta R.T. -0.05 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

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ClientSampleId :

EP1-MW-C(15-20)MS

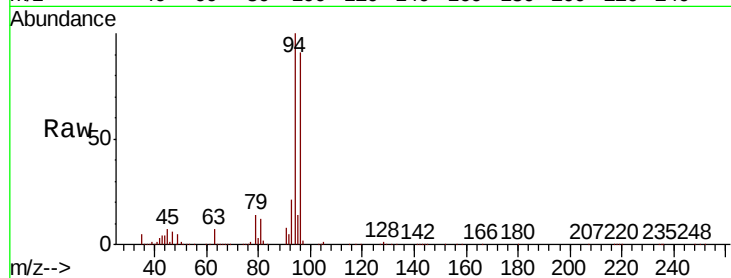
Tot Ion: 94 Resp: 94551

Ion Ratio Lower Upper

94 100

96 90.9 75.9 113.9

Manual Integrations
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Abundance Ion 93.90 (93.60 to 94.60): VN051107.D (-153) (-)

Ion 95.90 (95.60 to 96.60): VN051107.D (-153) (-)

80000

60000

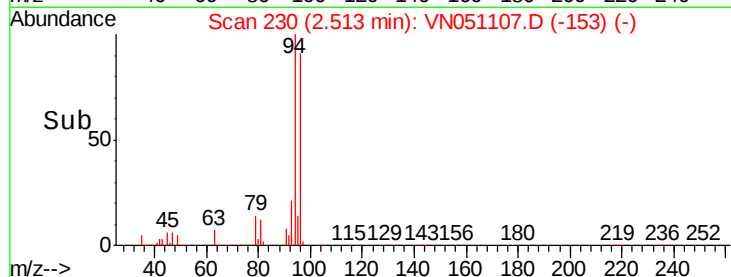
40000

20000

0

2.45 2.50 2.55

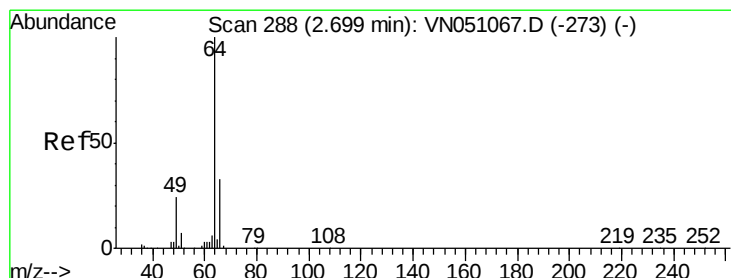
Time-->



Time-->

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#6

Chloroethane

Concen: 44.05 ug/l

RT: 2.63 min Scan# 266

Delta R.T. -0.07 min

Lab File: VN051107.D

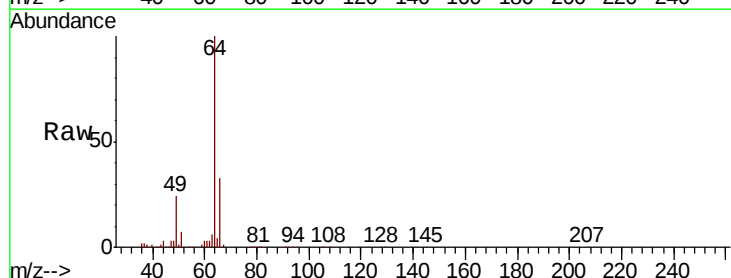
Acq: 11 Sep 2018 4:03

Tgt Ion: 64 Resp: 208536

Ion Ratio Lower Upper

64 100

66 32.8 26.1 39.1



Abundance Ion 63.90 (63.60 to 64.60): VN051107.D (-195) (-)

Ion 65.90 (65.60 to 66.60): VN051107.D (-195) (-)

100000

80000

60000

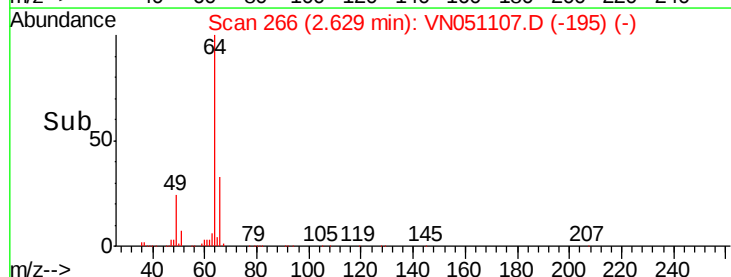
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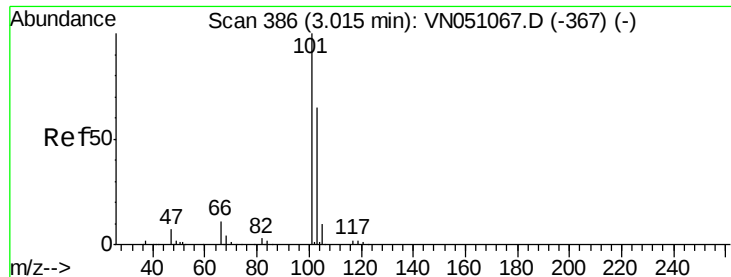
20000

0

2.60 2.65 2.70

Time-->





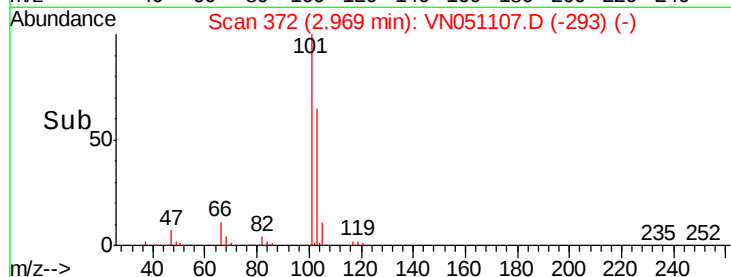
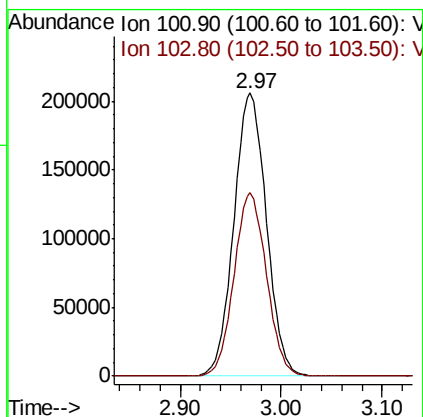
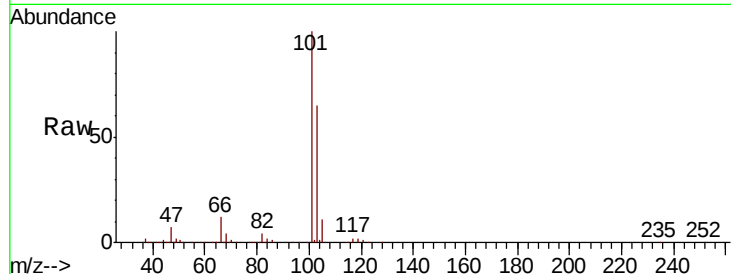
#7

Trichlorofluoromethane
 Concen: 45.25 ug/l
 RT: 2.97 min Scan# 372
 Delta R.T. -0.05 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

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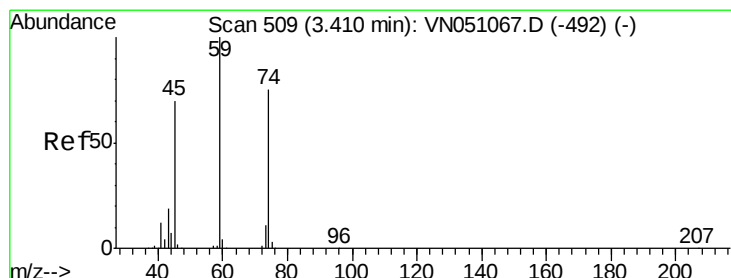
Tot Ion	Ratio	Lower	Upper
101	100		
103	64.7	52.4	78.6

Manual Integrations
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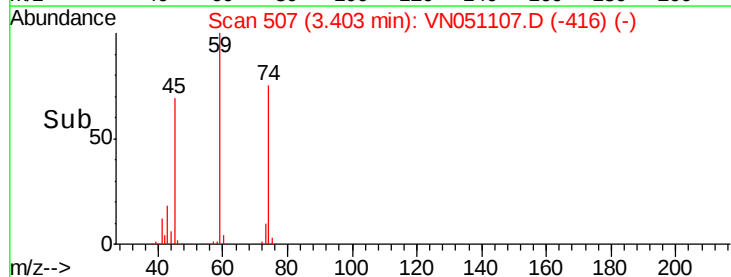
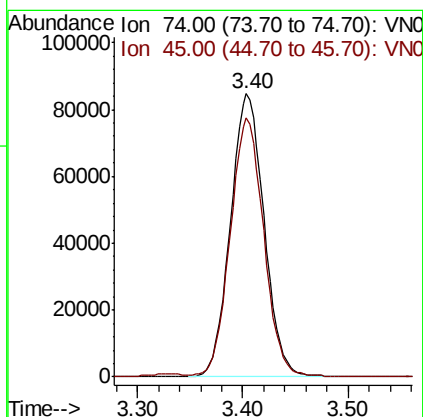
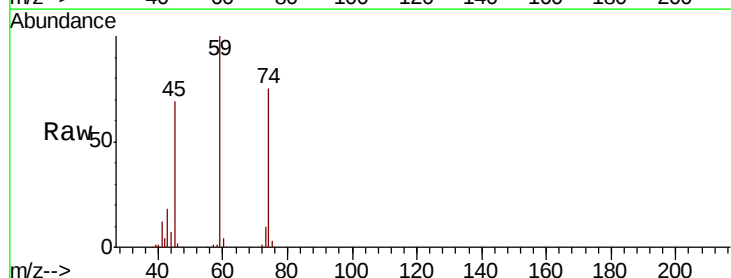
9/11/2018 9:41:53 AM

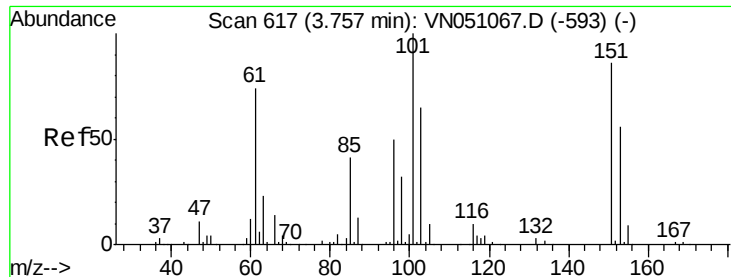


#8

Diethyl Ether
 Concen: 50.08 ug/l
 RT: 3.40 min Scan# 507
 Delta R.T. -0.01 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Lower	Upper
74	100		
45	90.9	46.7	140.0



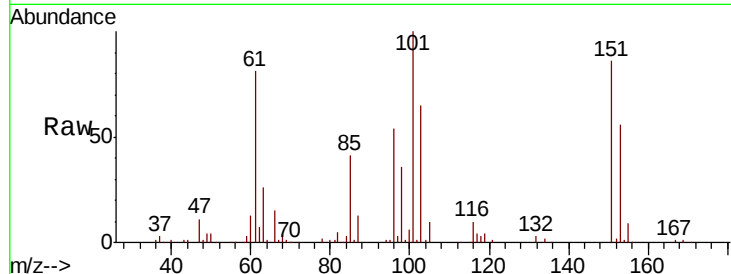


#9
1,1,2-Trichlorotrifluoroethane
Concen: 44.75 ug/l
RT: 3.73 min Scan# 610
Delta R.T. -0.02 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

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Tot Ion	Ratio	Resp	Lower	Upper
101	100	293192		
85	41.1	33.3	49.9	
151	85.4	68.2	102.2	

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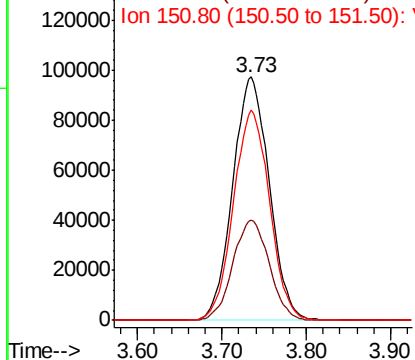


Abundance

Ion 100.90 (100.60 to 101.60): V

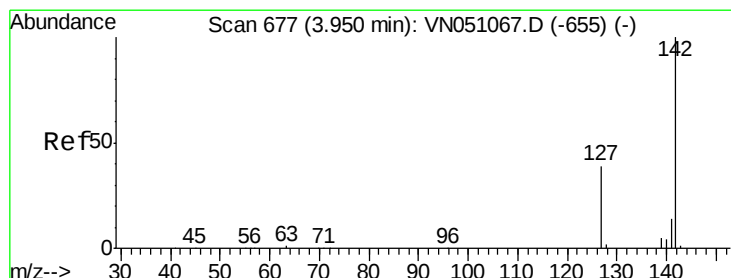
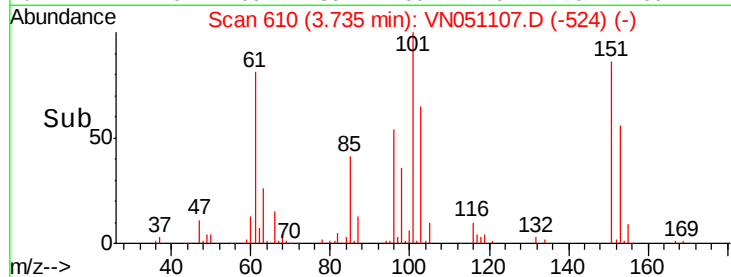
Ion 84.90 (84.60 to 85.60): V

Ion 150.80 (150.50 to 151.50): V



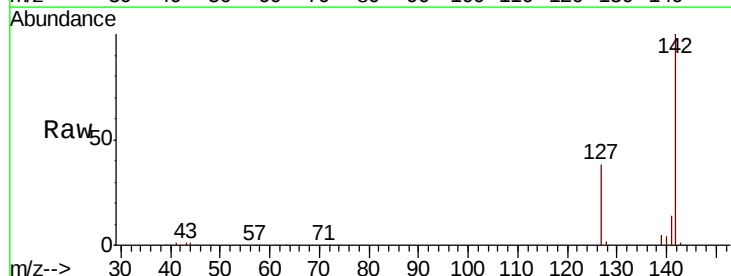
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#10
Methyl Iodide
Concen: 43.20 ug/l
RT: 3.93 min Scan# 672
Delta R.T. -0.02 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Resp	Lower	Upper
142	100	259402		
127	38.9	31.0	46.4	
141	14.1	11.3	16.9	

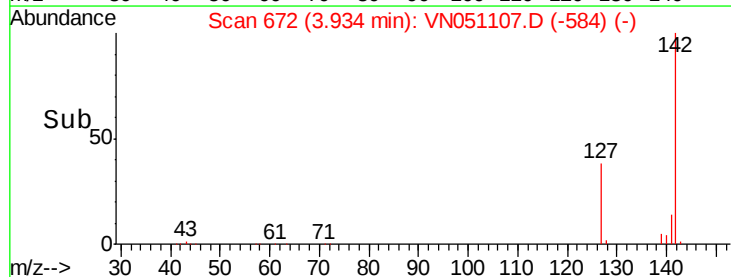
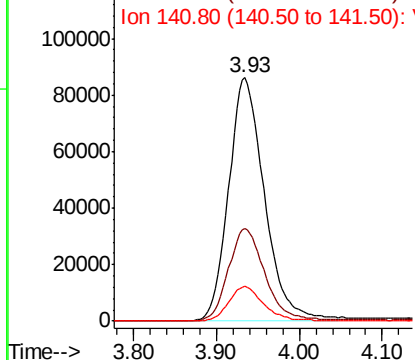


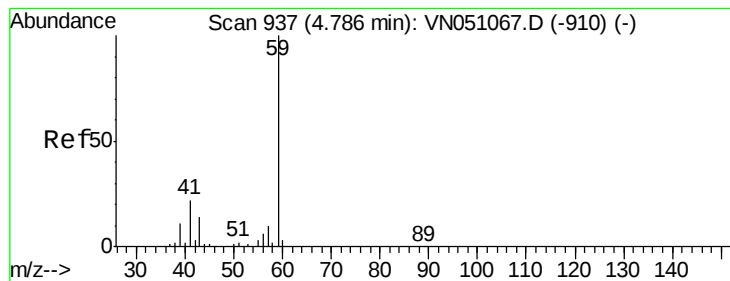
Abundance

Ion 141.80 (141.50 to 142.50): V

Ion 126.80 (126.50 to 127.50): V

Ion 140.80 (140.50 to 141.50): V





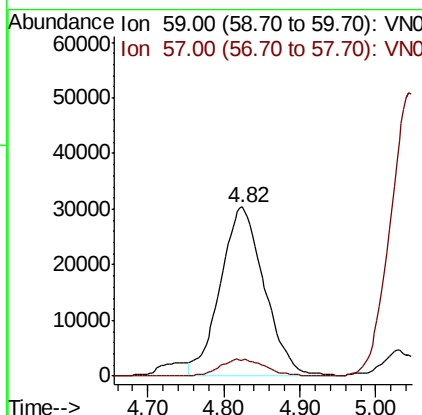
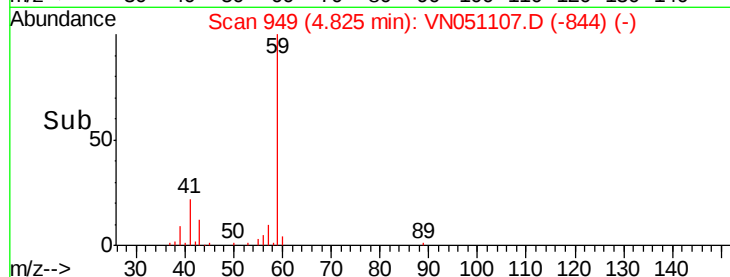
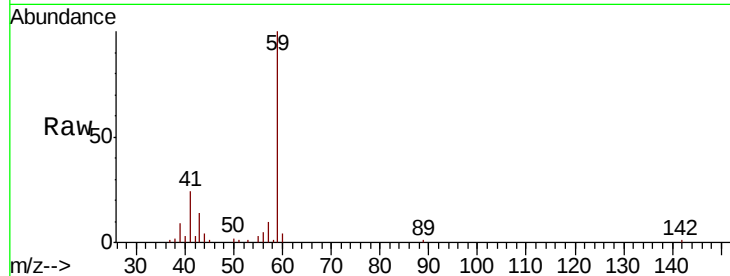
#11

Tert butyl alcohol
 Concen: 245.56 ug/l
 RT: 4.82 min Scan# 949
 Delta R.T. 0.04 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-C(15-20)MS

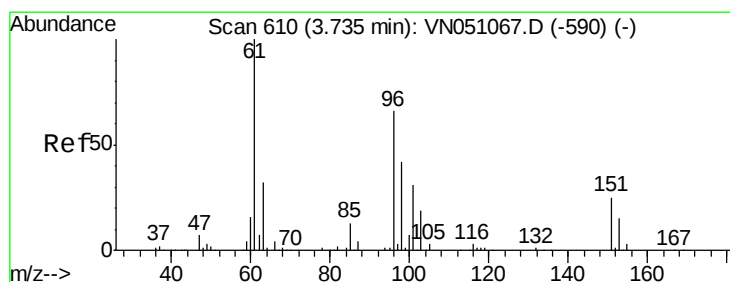
Tot Ion: 59 Resp: 120936
 Ion Ratio Lower Upper
 59 100
 57 4.9 8.1 12.1#

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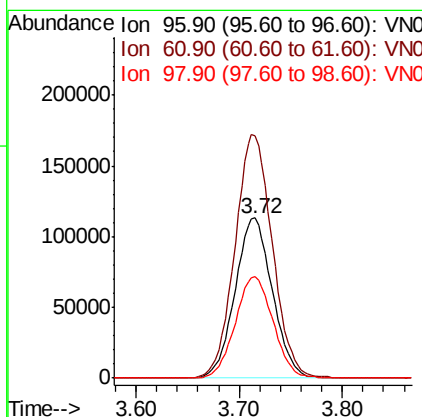
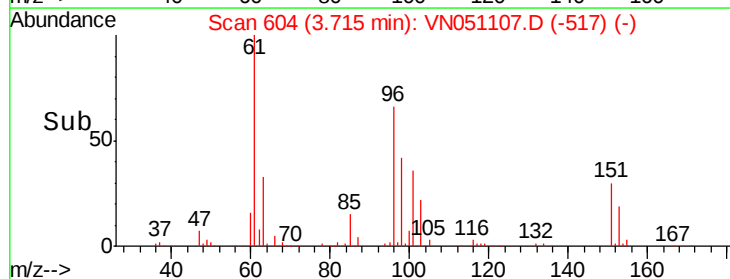
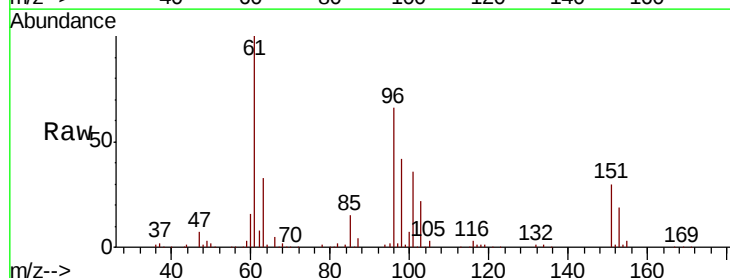
9/11/2018 9:41:53 AM

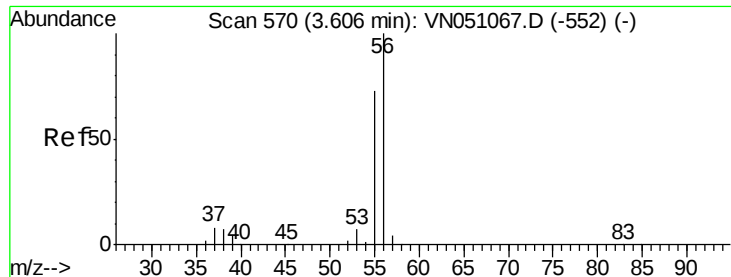


#12

1,1-Dichloroethene
 Concen: 46.11 ug/l
 RT: 3.72 min Scan# 604
 Delta R.T. -0.02 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Tgt Ion: 96 Resp: 284977
 Ion Ratio Lower Upper
 96 100
 61 151.6 120.3 180.5
 98 63.1 50.8 76.2



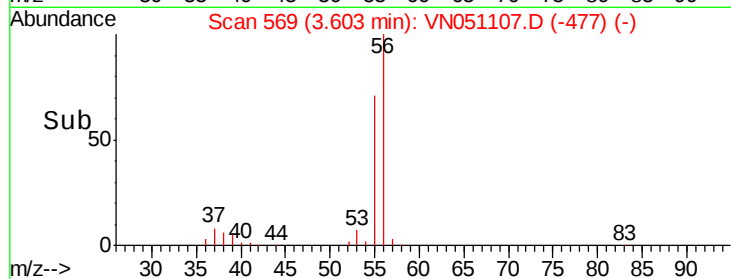
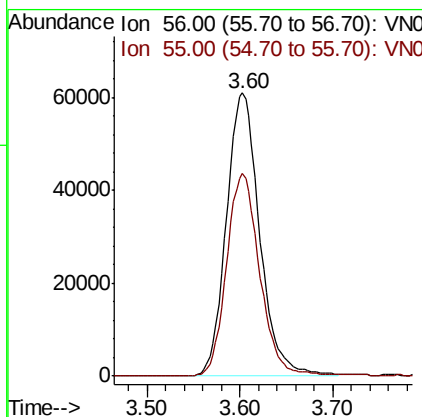
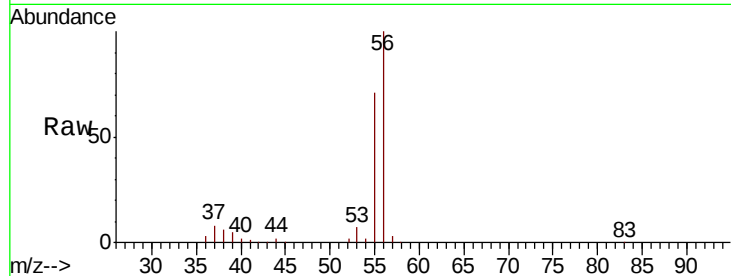


#13
Acrolein
Concen: 252.84 ug/l
RT: 3.60 min Scan# 569
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

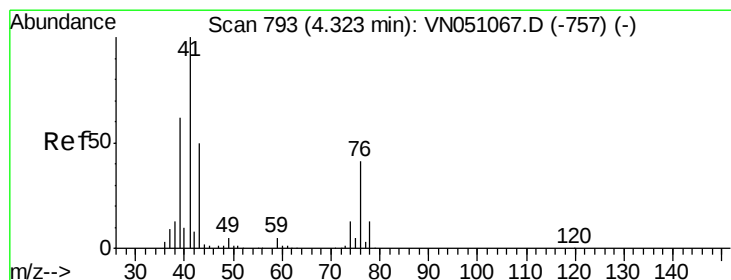
Tot Ion	Ion	Ratio	Lower	Upper
56	56	100		
55	55	71.3	58.0	87.0

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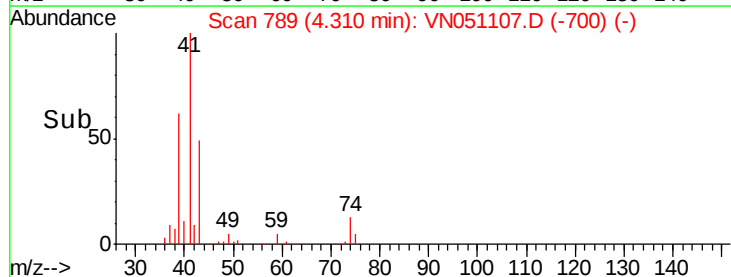
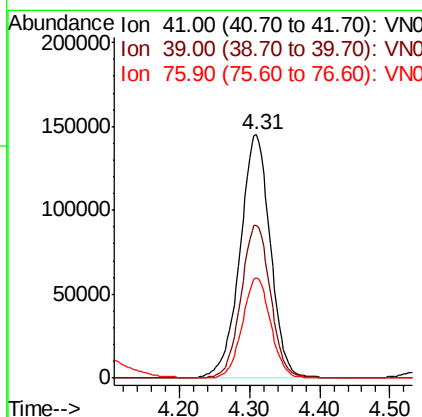
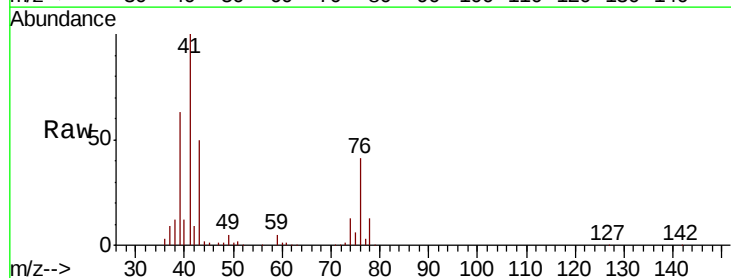
MMDadoda

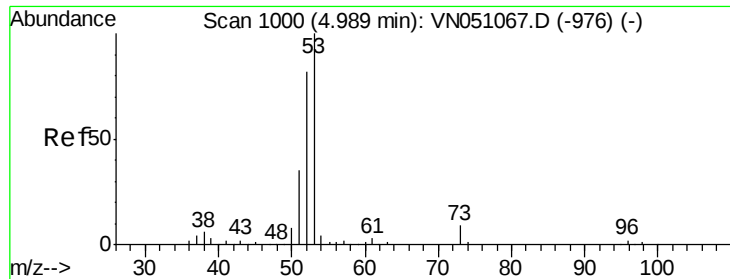
9/11/2018 9:41:53 AM



#14
Allyl chloride
Concen: 46.27 ug/l
RT: 4.31 min Scan# 789
Delta R.T. -0.01 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion	Ion	Ratio	Lower	Upper
41	41	100		
39	39	61.0	48.8	73.2
76	76	37.9	30.6	45.8



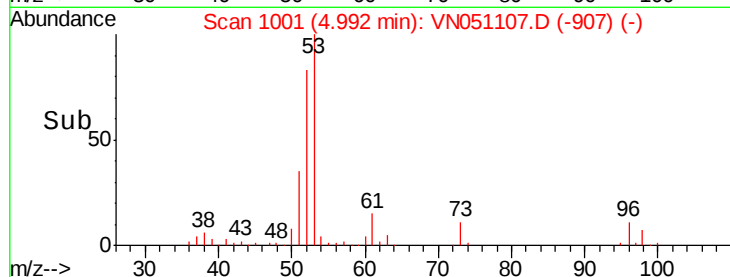
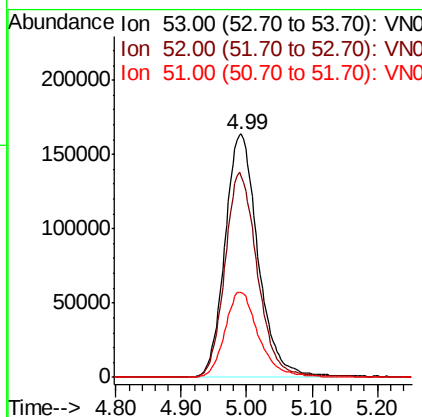
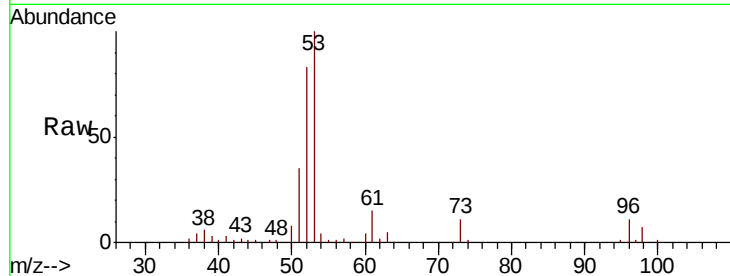


#15
 Acrylonitrile
 Concen: 264.15 ug/l
 RT: 4.99 min Scan# 1001
 Delta R.T. 0.00 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-C(15-20)MS

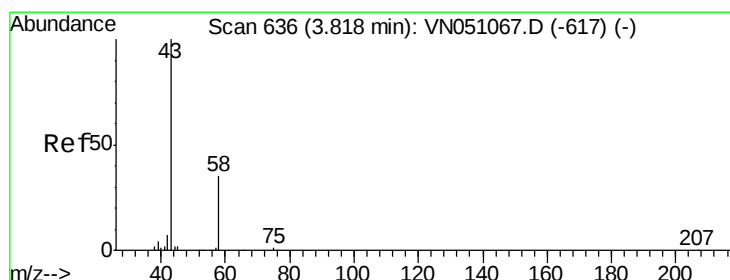
Tot Ion	Ratio	Lower	Upper
53	100		
52	82.5	65.3	97.9
51	35.6	28.2	42.2

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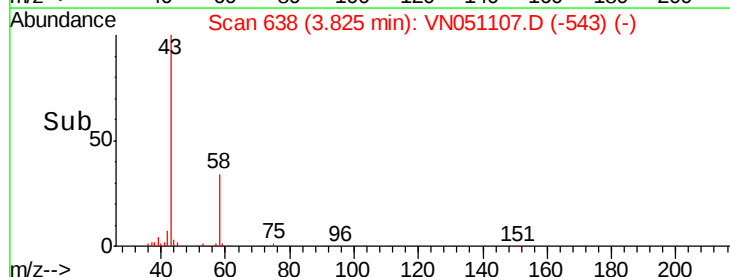
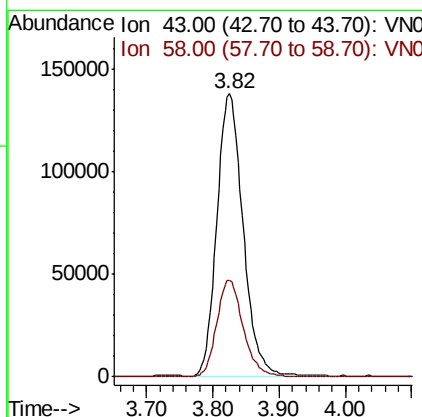
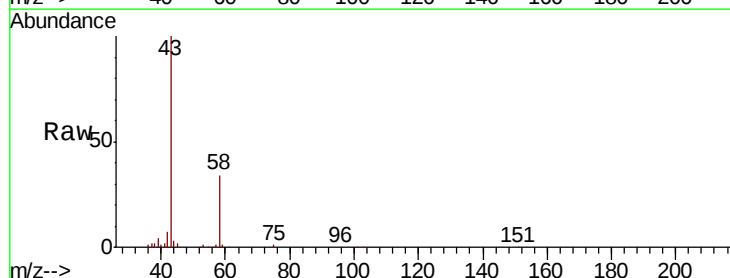
MMDadoda

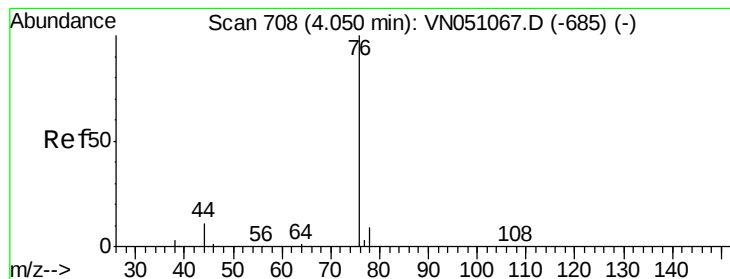
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#16
 Acetone
 Concen: 235.97 ug/l
 RT: 3.82 min Scan# 638
 Delta R.T. 0.01 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Lower	Upper
43	100		
58	34.2	27.8	41.6





#17

Carbon Disulfide

Concen: 46.49 ug/l

RT: 4.03 min Scan# 703

Delta R.T. -0.02 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

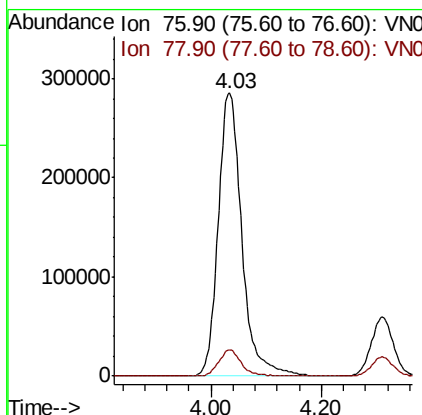
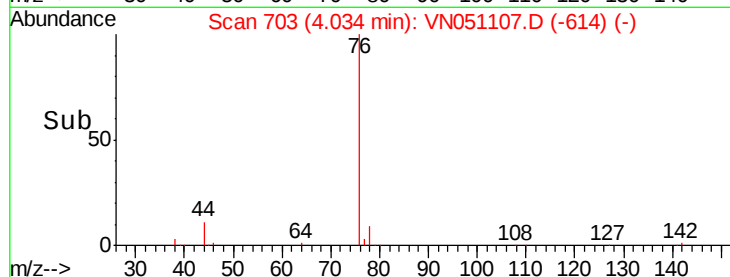
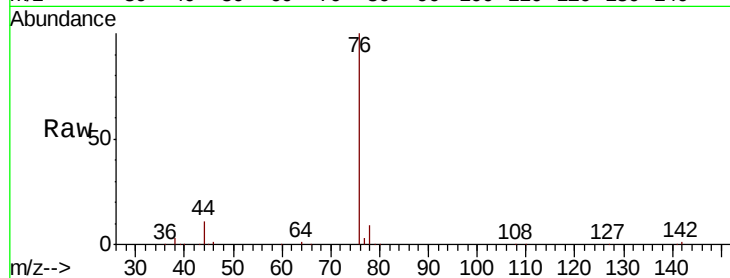
Tot Ion: 76 Resp: 846698

Ion Ratio Lower Upper

76 100

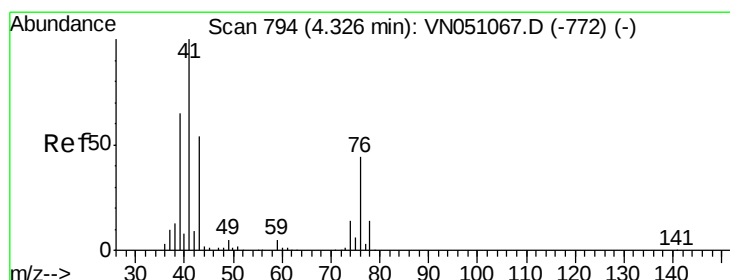
78 9.2 7.0 10.6

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#18

Methyl Acetate

Concen: 52.75 ug/l

RT: 4.33 min Scan# 794

Delta R.T. -0.00 min

Lab File: VN051107.D

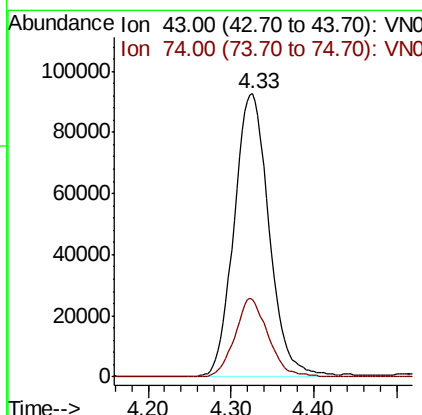
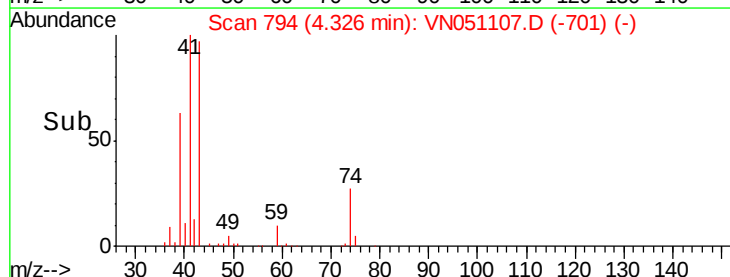
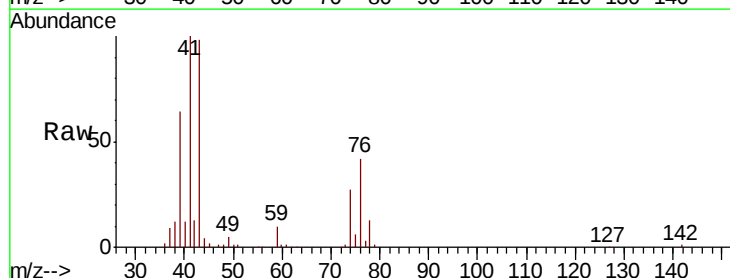
Acq: 11 Sep 2018 4:03

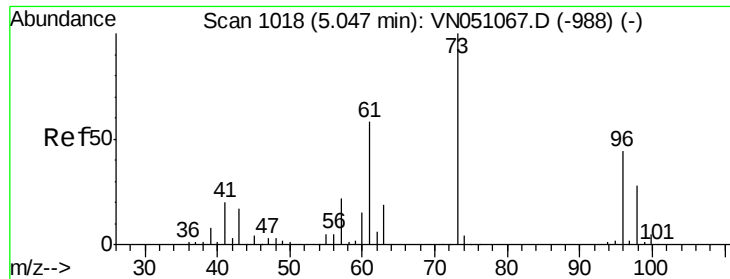
Tgt Ion: 43 Resp: 272368

Ion Ratio Lower Upper

43 100

74 26.4 20.7 31.1



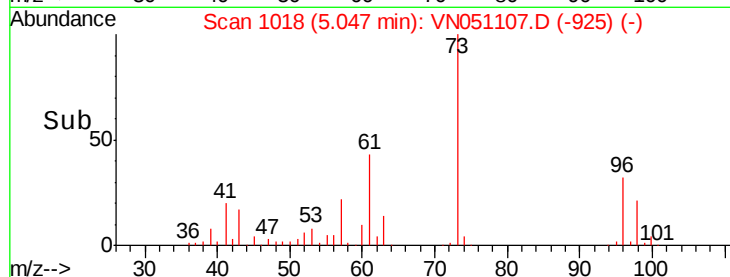
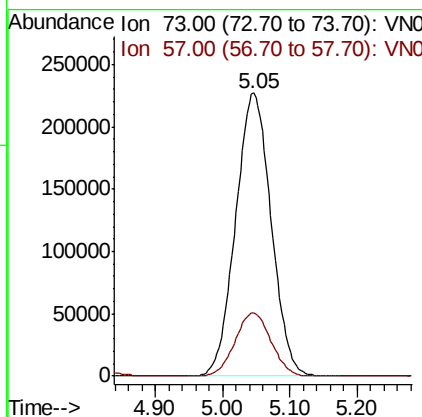
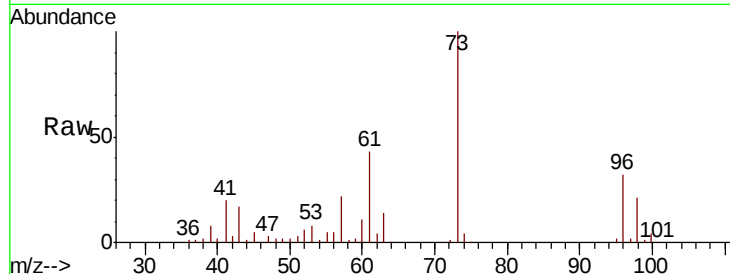


#19
Methvl tert-butvl Ether
Concen: 50.85 ug/l
RT: 5.05 min Scan# 1018
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

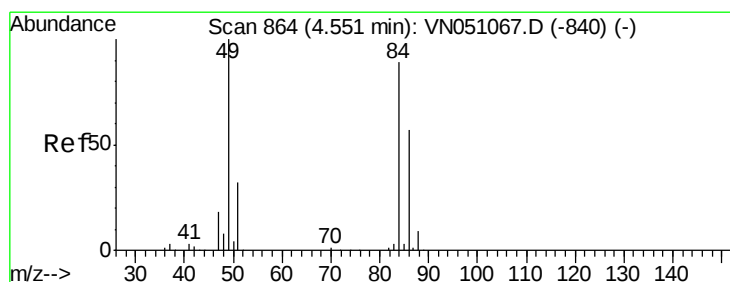
Tot Ion: 73 Resp: 830696
Ion Ratio Lower Upper
73 100
57 22.3 17.9 26.9

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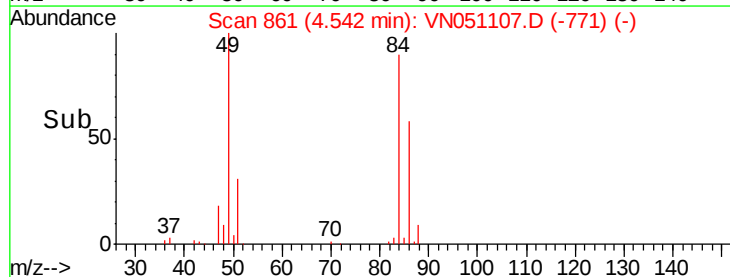
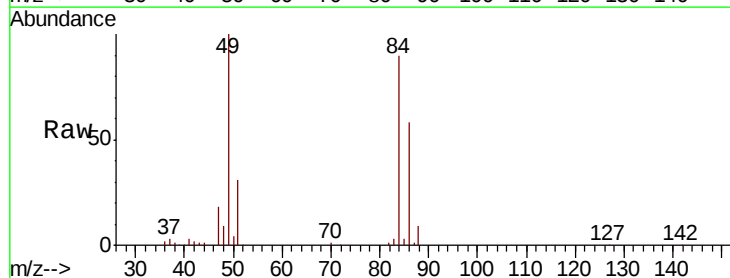
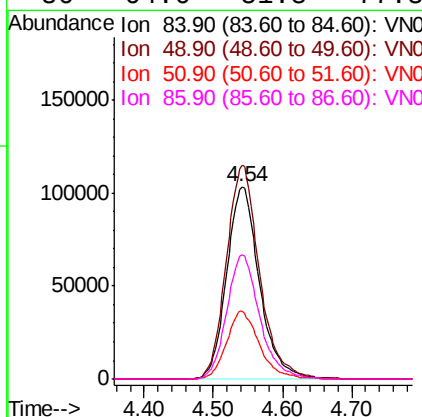
MMDadoda

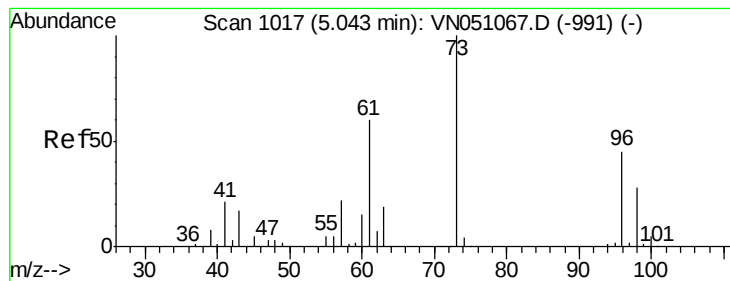
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#20
Methylene Chloride
Concen: 47.87 ug/l
RT: 4.54 min Scan# 861
Delta R.T. -0.01 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion: 84 Resp: 340938
Ion Ratio Lower Upper
84 100
49 111.2 90.2 135.2
51 35.0 28.4 42.6
86 64.6 51.8 77.8





#21

trans-1,2-Dichloroethene

Concen: 46.81 ug/l

RT: 5.03 min Scan# 1013

Delta R.T. -0.01 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

Tot Ion: 96 Resp: 313782

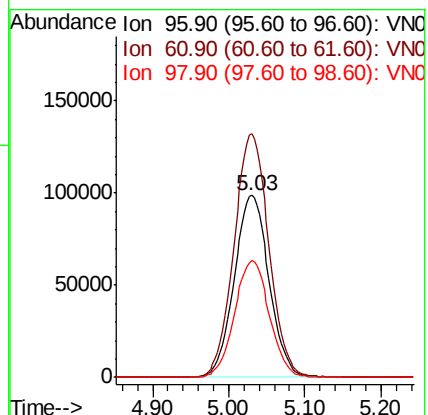
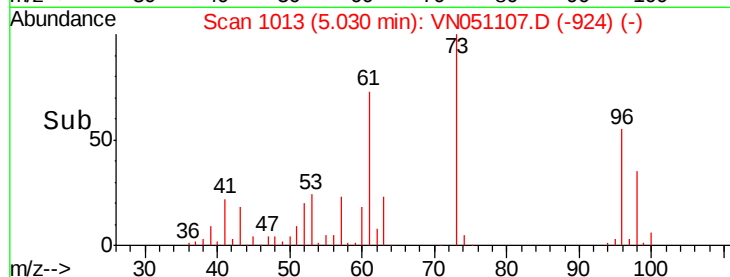
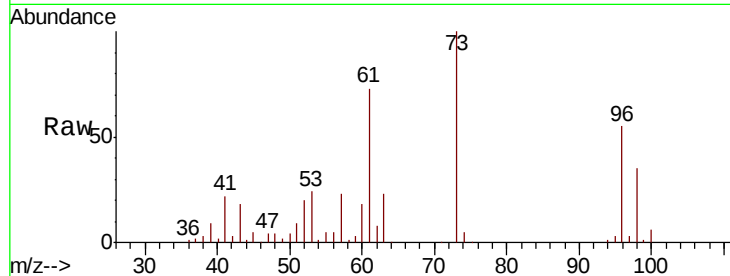
Ion Ratio Lower Upper

96 100

61 133.7 106.5 159.7

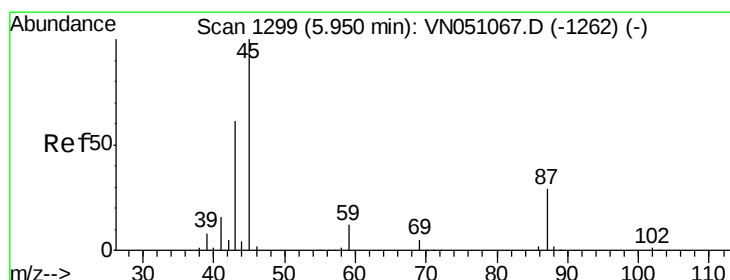
98 63.9 50.4 75.6

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#22

Diisopropyl ether

Concen: 51.68 ug/l

RT: 5.95 min Scan# 1300

Delta R.T. 0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Tgt Ion: 45 Resp: 965870

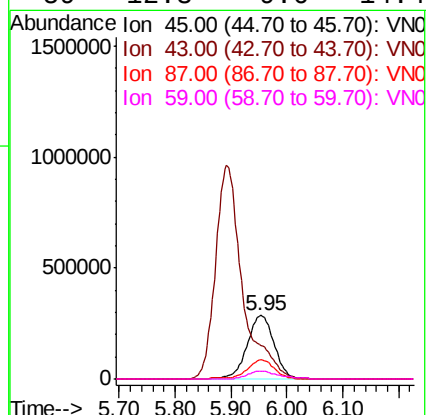
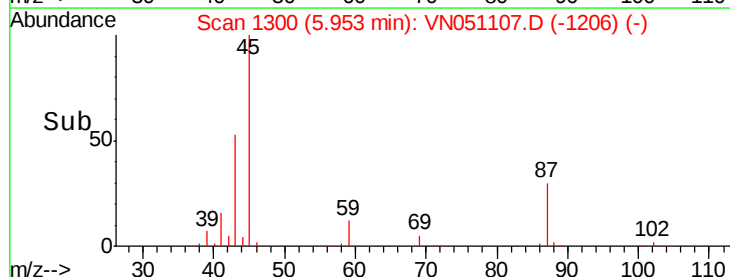
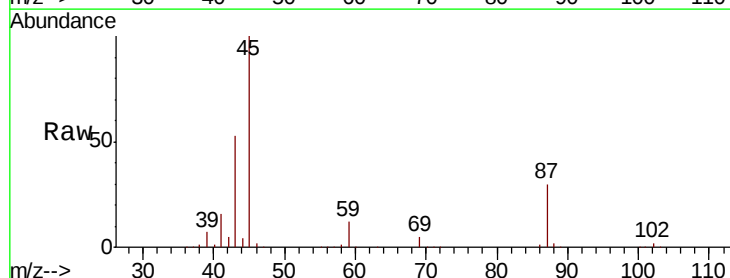
Ion Ratio Lower Upper

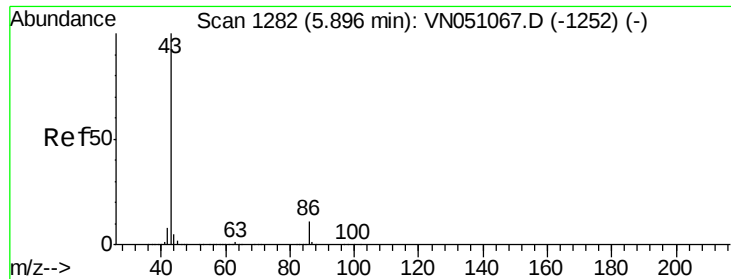
45 100

43 52.7 48.8 73.2

87 30.3 23.8 35.8

59 12.3 9.6 14.4





#23

Vinyl Acetate

Concen: 256.30 ug/l

RT: 5.89 min Scan# 1281

Delta R.T. -0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

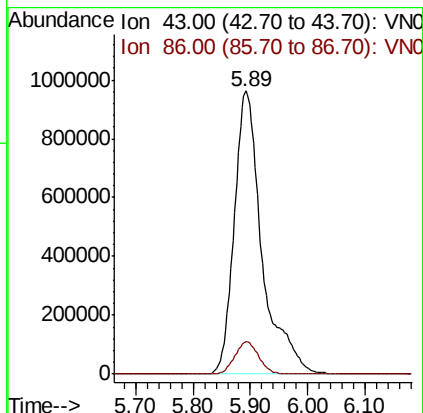
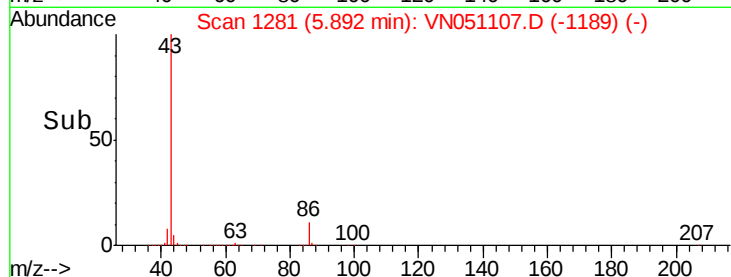
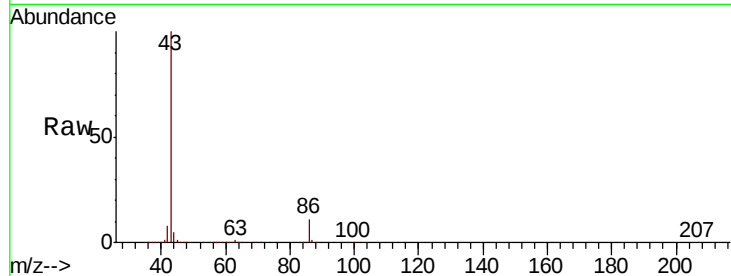
Tot Ion: 43 Resp: 3241883

Ion Ratio Lower Upper

43 100

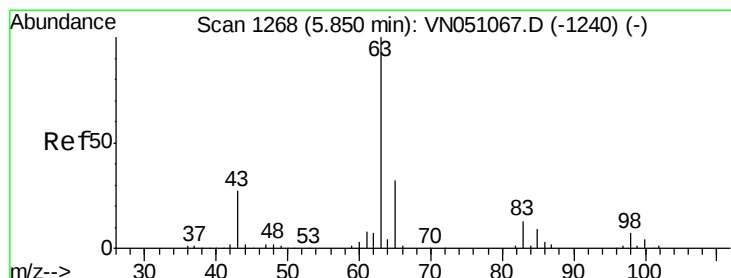
86 11.4 9.2 13.8

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#24

1,1-Dichloroethane

Concen: 48.10 ug/l

RT: 5.84 min Scan# 1266

Delta R.T. -0.01 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

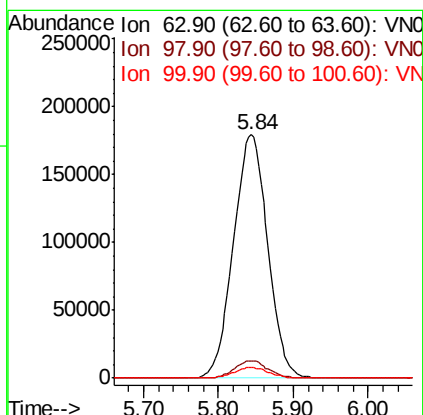
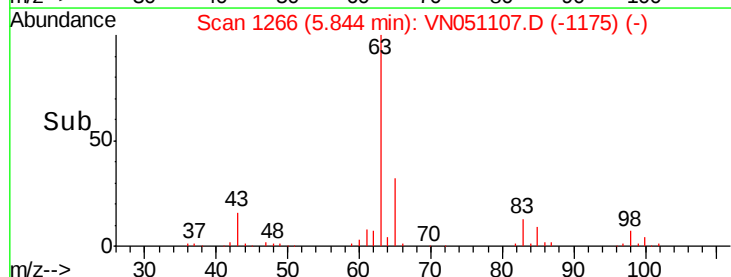
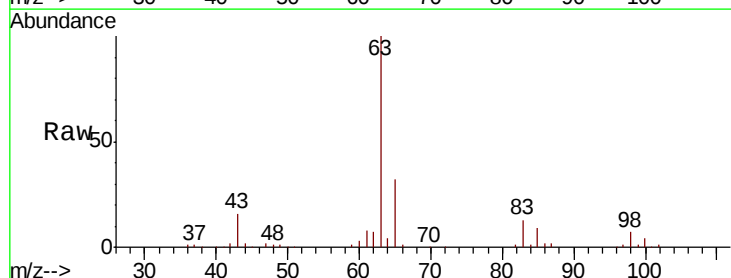
Tgt Ion: 63 Resp: 570411

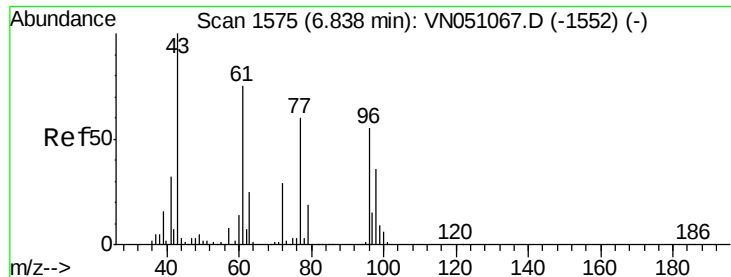
Ion Ratio Lower Upper

63 100

98 6.9 3.4 10.1

100 4.4 2.1 6.3



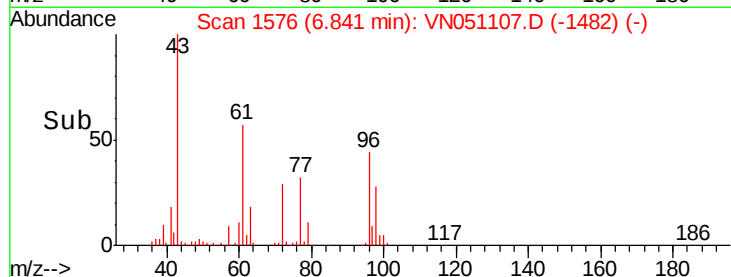
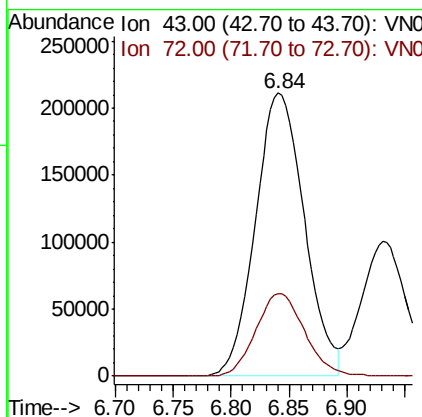
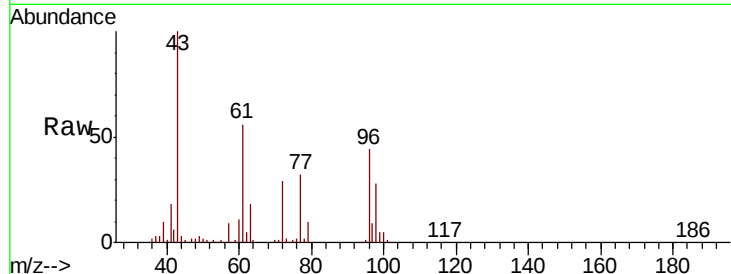


#25
2-Butanone
Concen: 243.79 ug/l
RT: 6.84 min Scan# 1576
Delta R.T. 0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

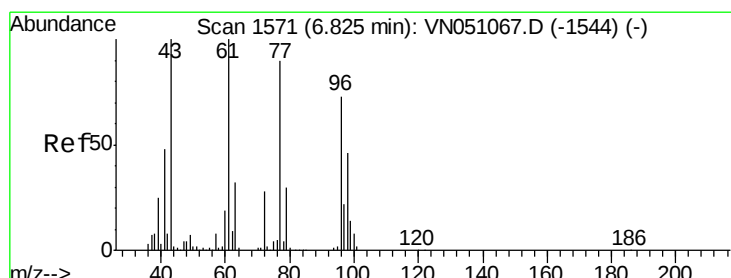
Tot Ion: 43 Resp: 618020
Ion Ratio Lower Upper
43 100
72 29.2 23.0 34.6

Manual Integrations
APPROVED



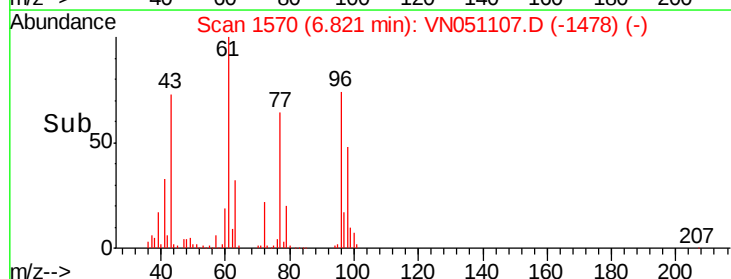
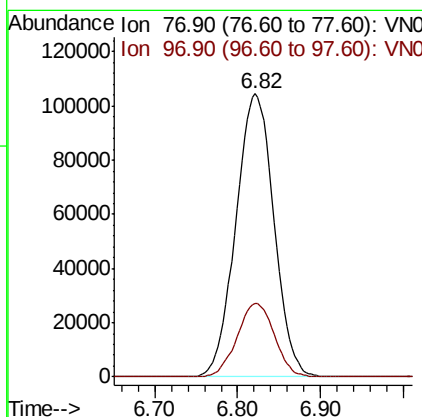
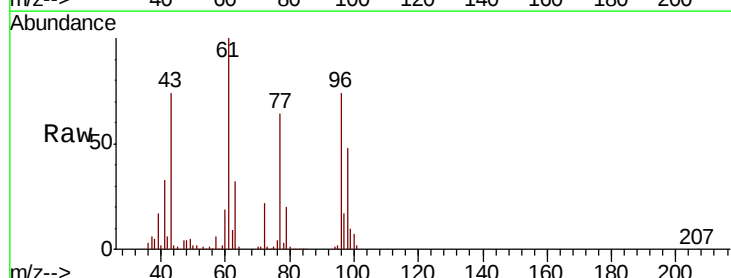
MMDadoda

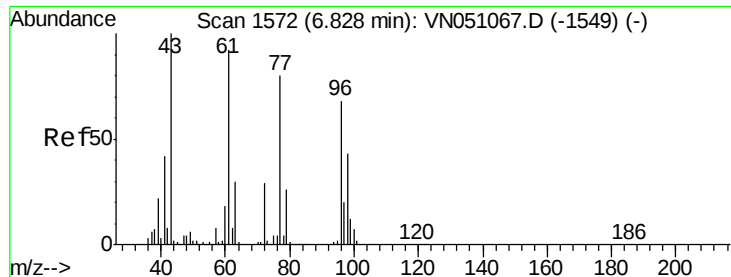
9/11/2018 9:41:53 AM



#26
2,2-Dichloropropane
Concen: 34.31 ug/l
RT: 6.82 min Scan# 1570
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion: 77 Resp: 333027
Ion Ratio Lower Upper
77 100
97 25.5 12.1 36.3



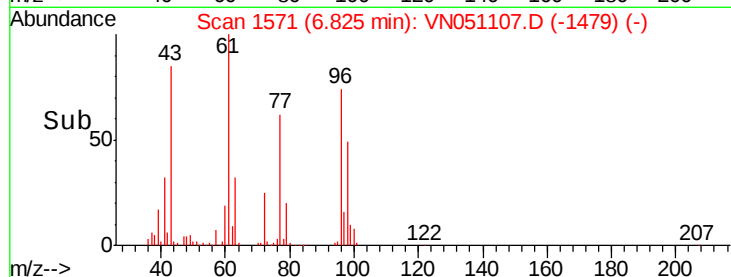
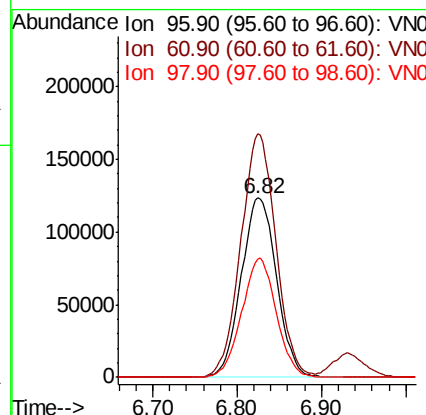
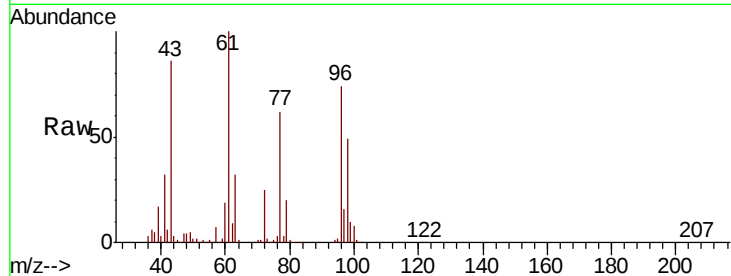


#27
 cis-1,2-Dichloroethene
 Concen: 48.97 ug/l
 RT: 6.82 min Scan# 1571
 Delta R.T. -0.00 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-C(15-20)MS

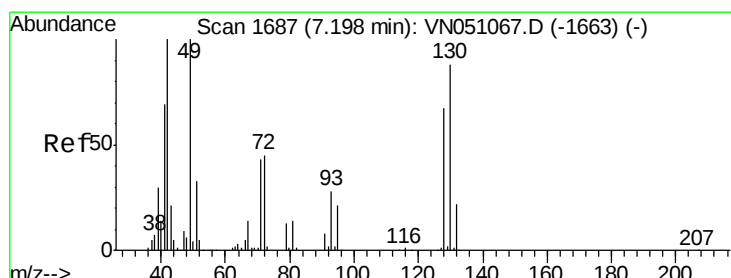
Tot Ion	Ratio	Resp	Lower	Upper
96	100			
61	134.6	0.0	278.2	
98	65.0	0.0	129.4	

Manual Integrations
 APPROVED



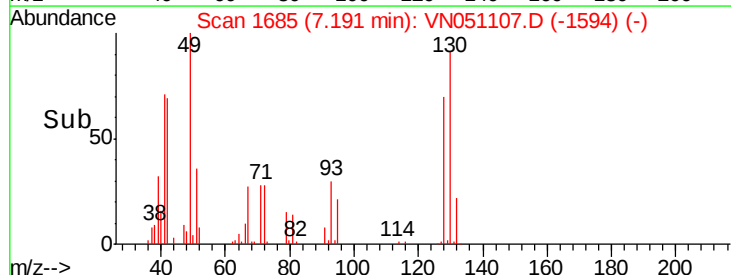
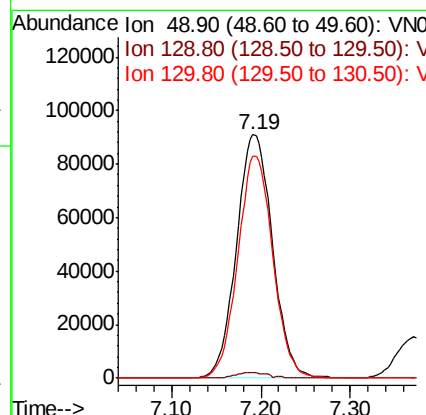
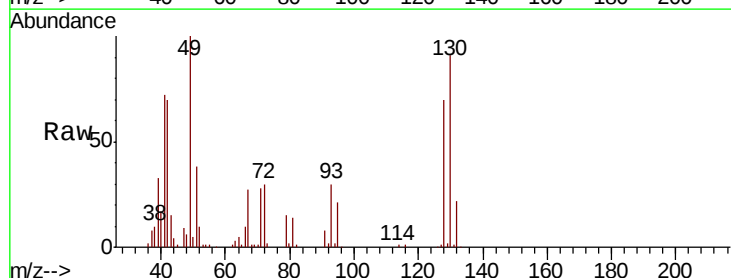
MMDadoda

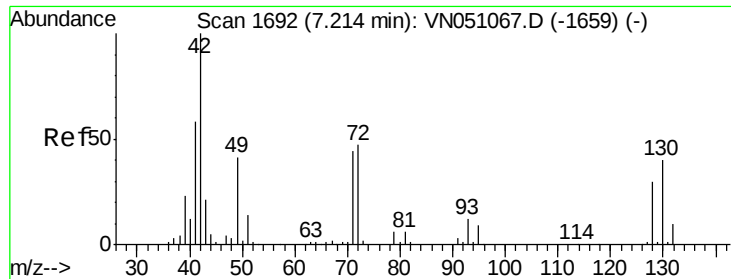
9/11/2018 9:41:53 AM



#28
 Bromochloromethane
 Concen: 48.28 ug/l
 RT: 7.19 min Scan# 1685
 Delta R.T. -0.01 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Resp	Lower	Upper
49	100			
129	1.9	0.0	4.4	
130	89.0	70.7	106.1	



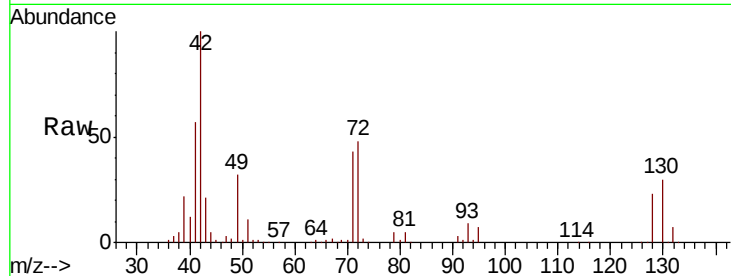


#29
Tetrahydrofuran
Concen: 265.85 ug/l
RT: 7.21 min Scan# 1692
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

Tot Ion	Ratio	Lower	Upper
42	100		
72	46.7	37.4	56.0
71	43.6	34.7	52.1

Manual Integrations
APPROVED

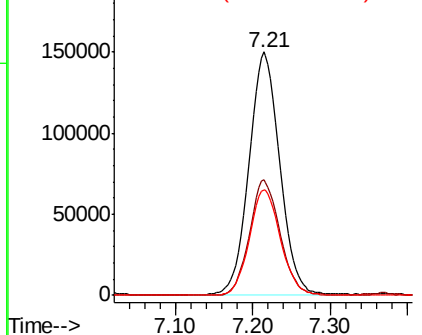


Abundance

Ion 42.00 (41.70 to 42.70): VN0

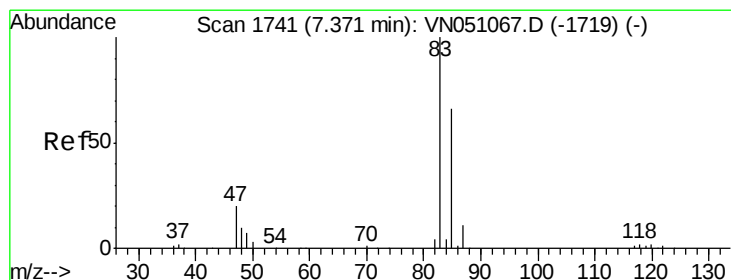
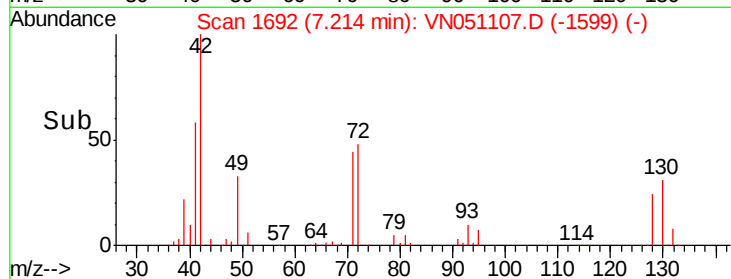
Ion 72.00 (71.70 to 72.70): VN0

Ion 71.00 (70.70 to 71.70): VN0



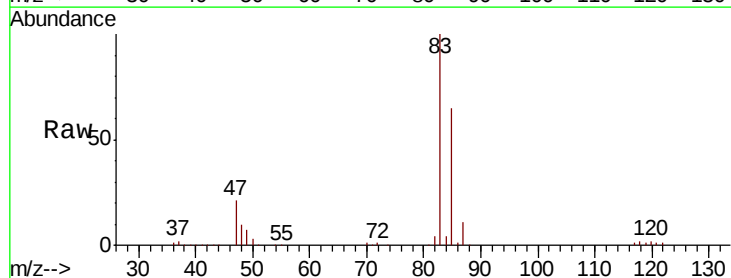
MMDadoda

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#30
Chloroform
Concen: 48.51 ug/l
RT: 7.37 min Scan# 1740
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

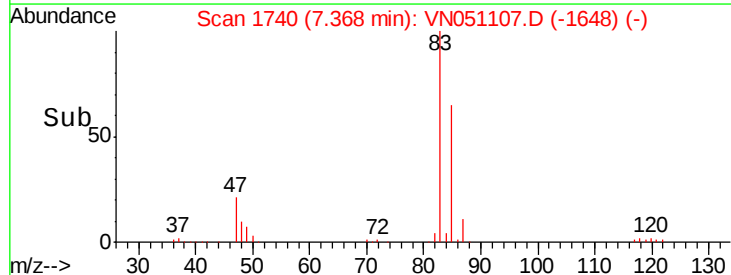
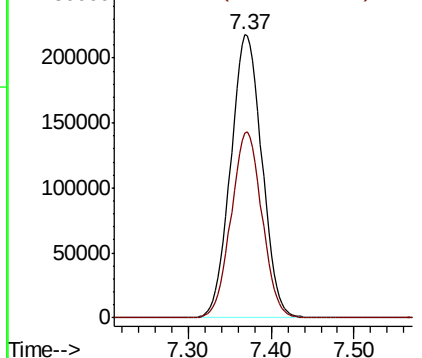
Tgt Ion	Ratio	Lower	Upper
83	100		
85	65.2	52.6	79.0

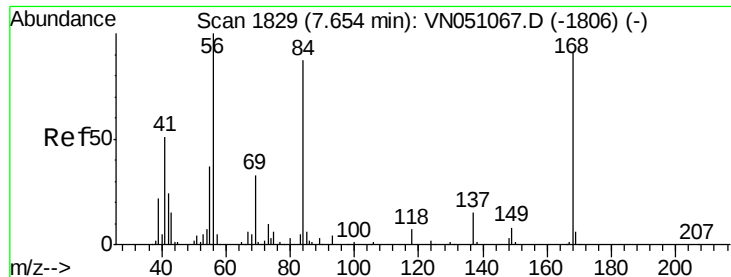


Abundance

Ion 82.90 (82.60 to 83.60): VN0

Ion 84.90 (84.60 to 85.60): VN0



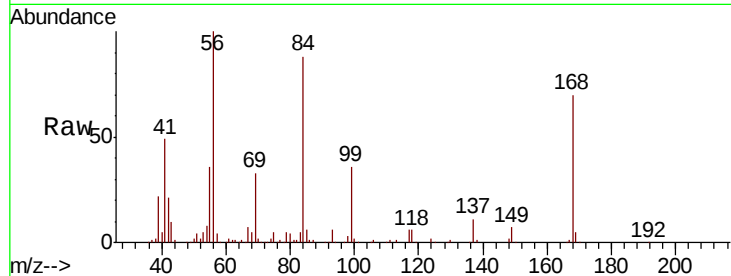


#31
Cyclohexane
Concen: 49.89 ug/l
RT: 7.65 min Scan# 1827
Delta R.T. -0.01 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

Tot Ion	Ratio	Lower	Upper
56	100		
69	32.8	26.3	39.5
84	86.6	69.4	104.0

Manual Integrations
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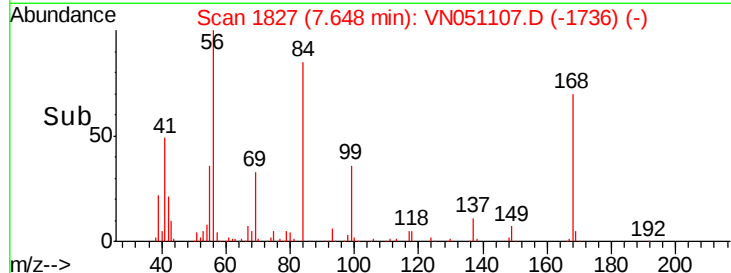
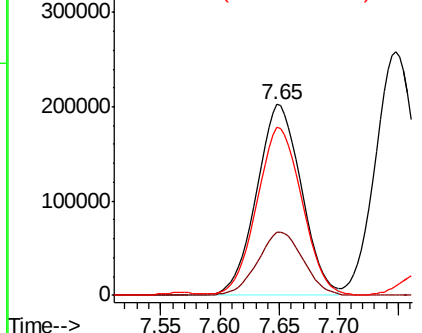


Abundance

Ion 56.00 (55.70 to 56.70): VN051107.D (-1736) (-)

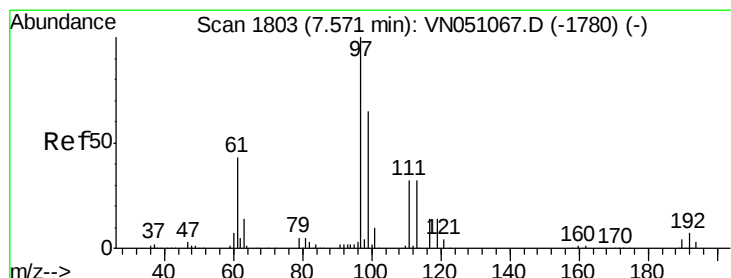
Ion 69.00 (68.70 to 69.70): VN051107.D (-1736) (-)

Ion 84.00 (83.70 to 84.70): VN051107.D (-1736) (-)



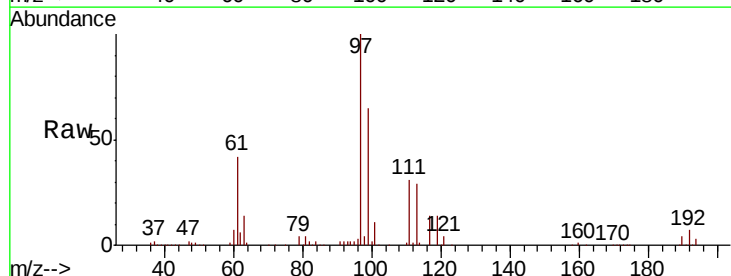
MMDadoda

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#32
1,1,1-Trichloroethane
Concen: 48.16 ug/l
RT: 7.57 min Scan# 1802
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Lower	Upper
97	100		
99	64.8	51.6	77.4
61	41.7	33.8	50.6

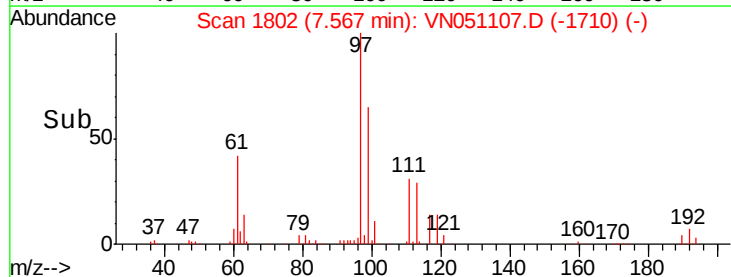
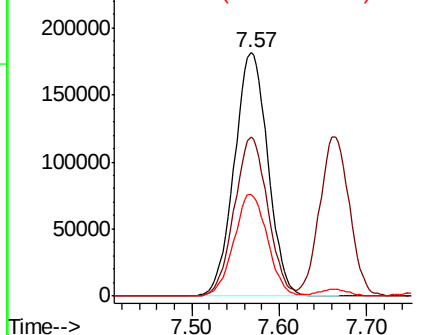


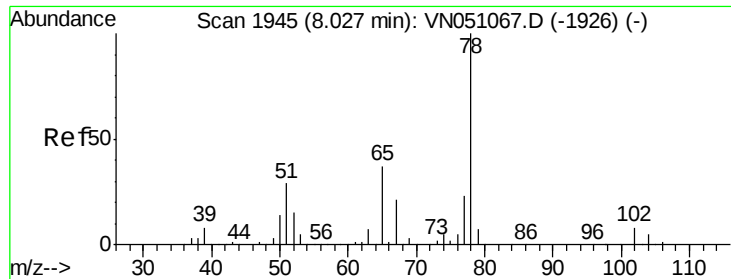
Abundance

Ion 96.90 (96.60 to 97.60): VN051107.D (-1710) (-)

Ion 98.90 (98.60 to 99.60): VN051107.D (-1710) (-)

Ion 60.90 (60.60 to 61.60): VN051107.D (-1710) (-)



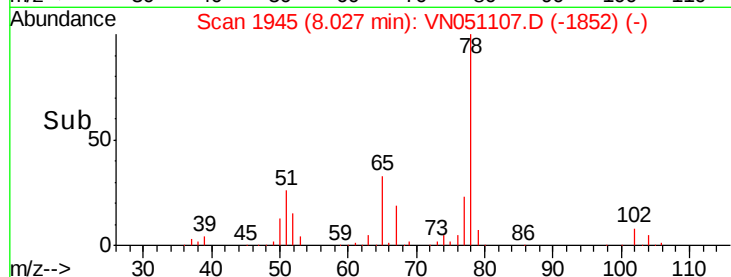
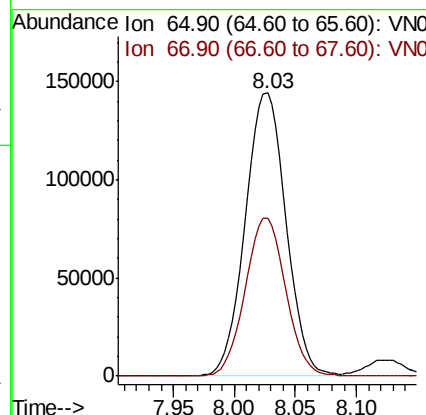
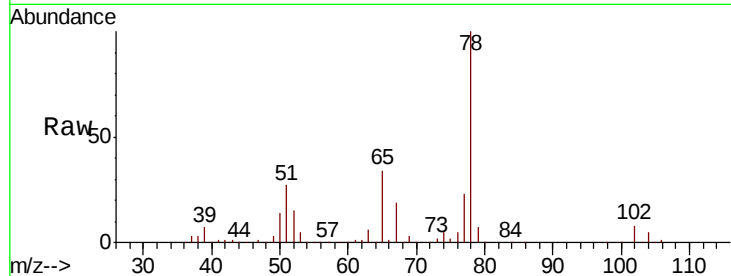


#33
 1,2-Dichloroethane-d4
 Concen: 51.74 ug/l
 RT: 8.03 min Scan# 1945
 Delta R.T. -0.00 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-C(15-20)MS

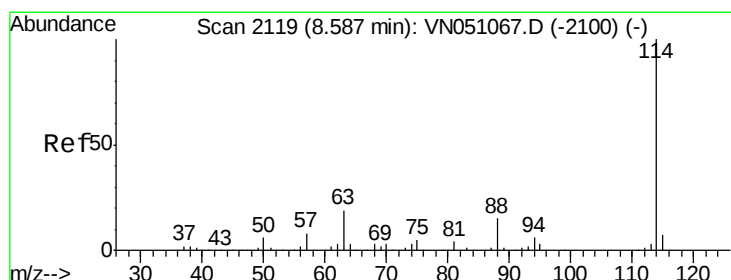
Tot Ion	Ratio	Resp	Lower	Upper
65	100	333620		
67	55.6	0.0	112.0	

Manual Integrations
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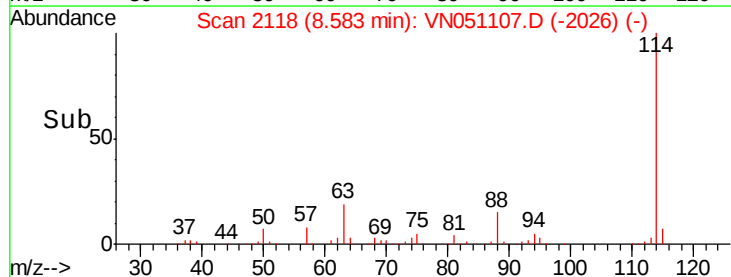
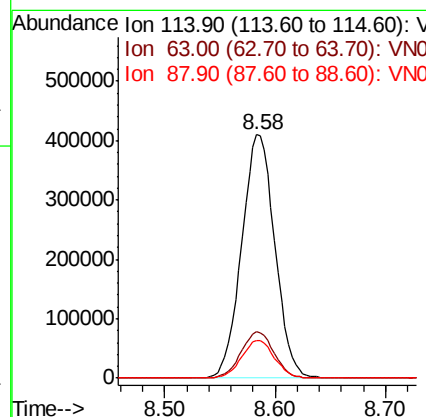
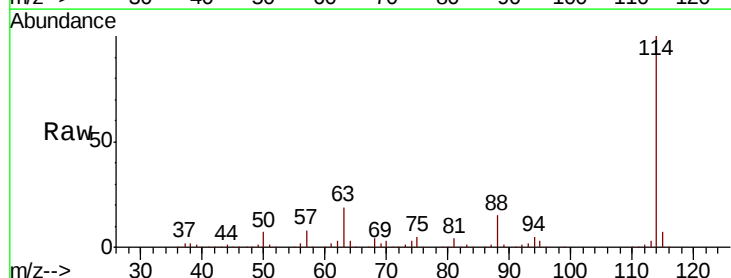
MMDadoda

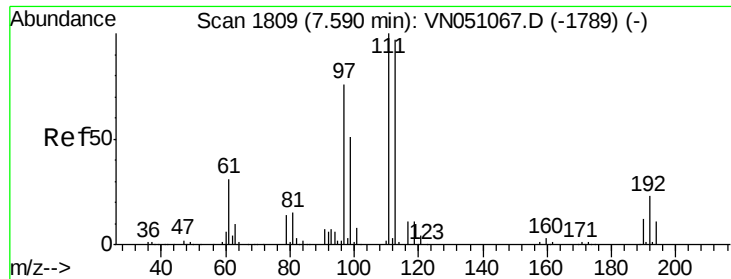
9/11/2018 9:41:53 AM



#34
 1,4-Difluorobenzene
 Concen: 50.00 ug/l
 RT: 8.58 min Scan# 2118
 Delta R.T. -0.00 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	853990		
63	18.9	0.0	37.8	
88	15.5	0.0	30.8	



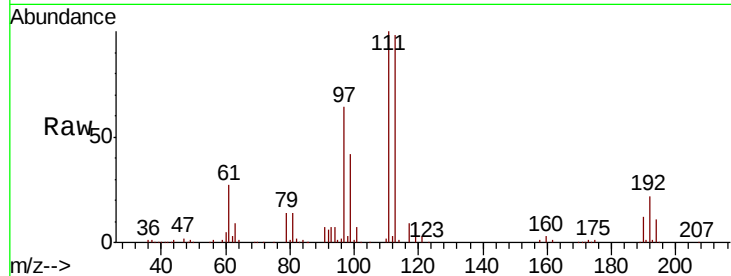


#35
Dibromofluoromethane
Concen: 49.14 ug/l
RT: 7.59 min Scan# 1809
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

Tot Ion	Ratio	Resp	Lower	Upper
113	100			
111	103.5	83.0	124.6	
192	23.2	18.7	28.1	

Manual Integrations
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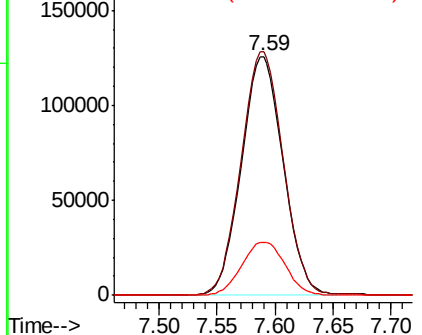


Abundance

Ion 112.80 (112.50 to 113.50): V

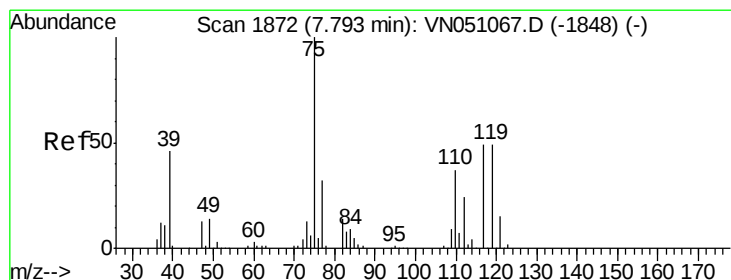
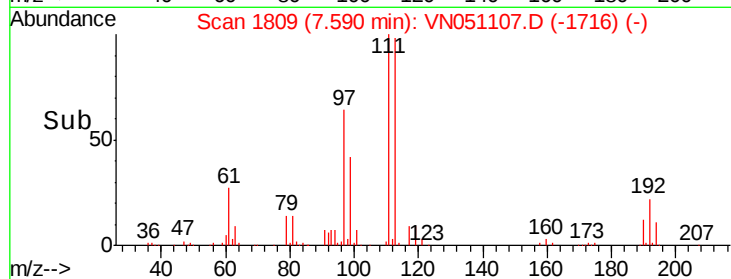
Ion 110.80 (110.50 to 111.50): V

Ion 191.70 (191.40 to 192.40): V



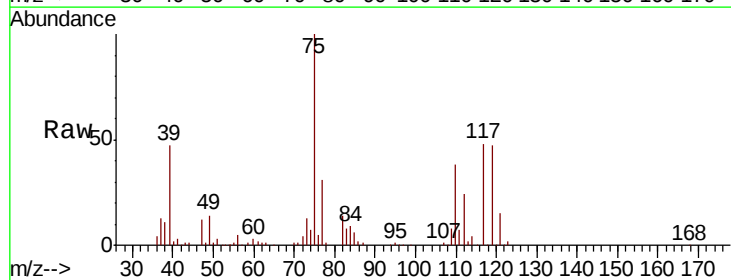
MMDadoda

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#36
1,1-Dichloropropene
Concen: 47.93 ug/l
RT: 7.79 min Scan# 1871
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Resp	Lower	Upper
75	100			
110	37.2	18.6	55.8	
77	31.2	25.2	37.8	

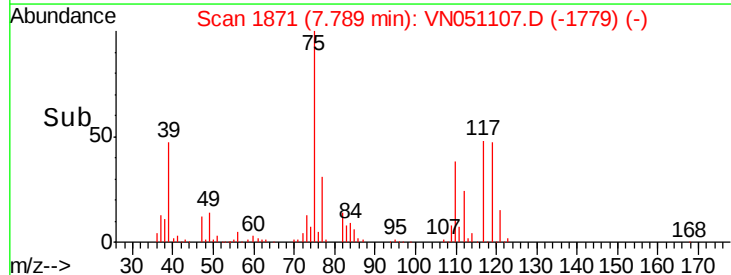
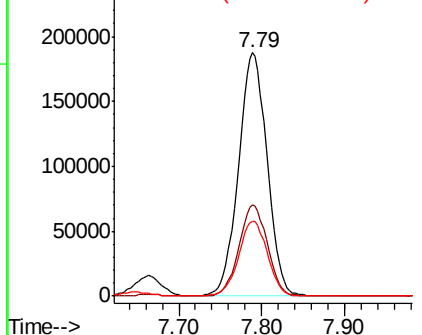


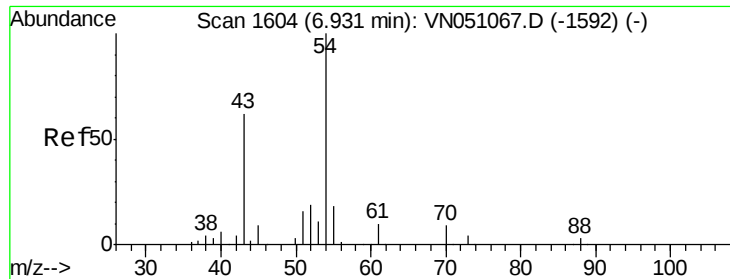
Abundance

Ion 74.90 (74.60 to 75.60): V

Ion 109.90 (109.60 to 110.60): V

Ion 76.90 (76.60 to 77.60): V



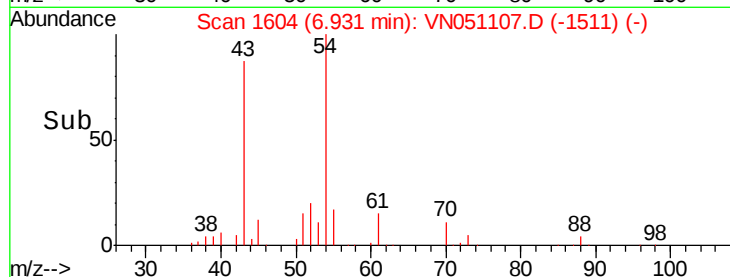
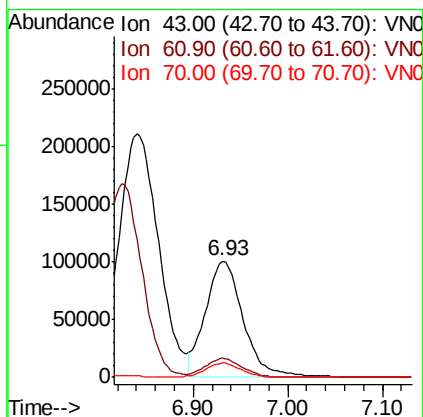
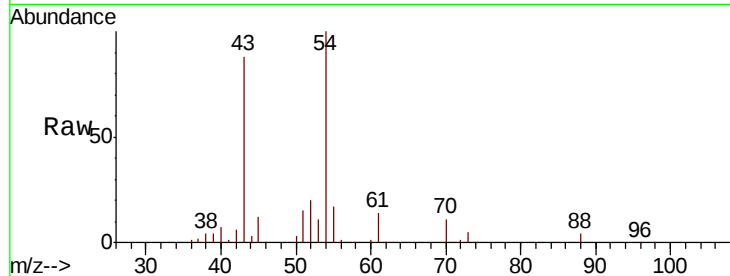


#37
Ethyl Acetate
Concen: 51.11 ug/l
RT: 6.93 min Scan# 1604
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

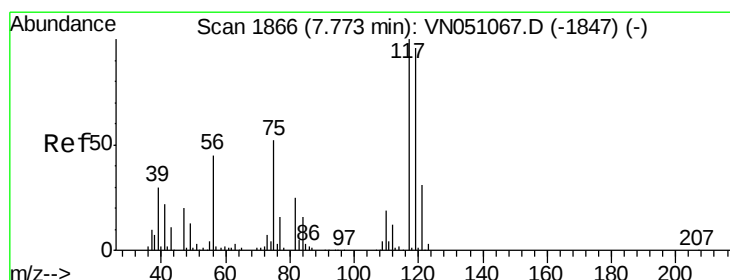
Tot Ion:	43	Resp:	277510
Ion	Ratio	Lower	Upper
43	100		
61	15.8	12.4	18.6
70	12.0	9.3	13.9

Manual Integrations
APPROVED



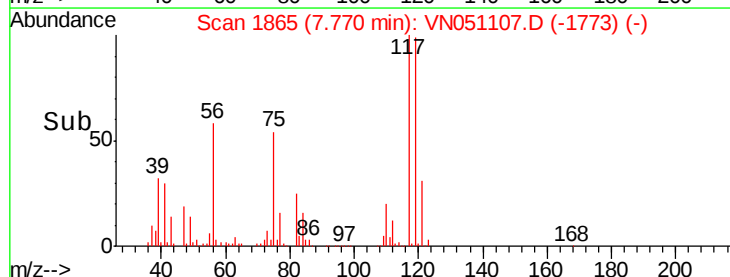
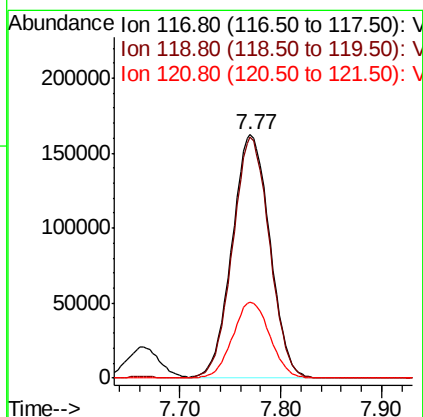
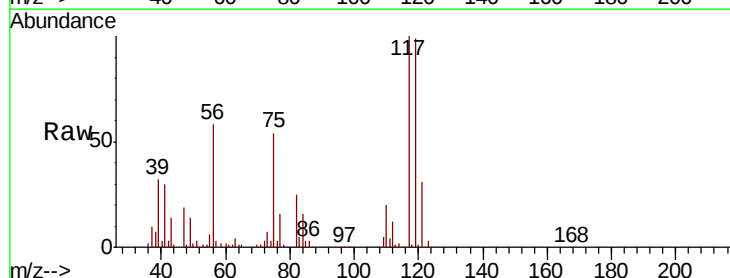
MMDadoda

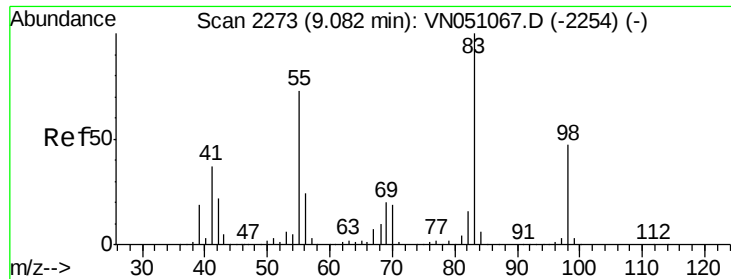
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#38
Carbon Tetrachloride
Concen: 45.65 ug/l
RT: 7.77 min Scan# 1865
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion:	117	Resp:	421251
Ion	Ratio	Lower	Upper
117	100		
119	99.0	76.8	115.2
121	31.0	24.6	36.8



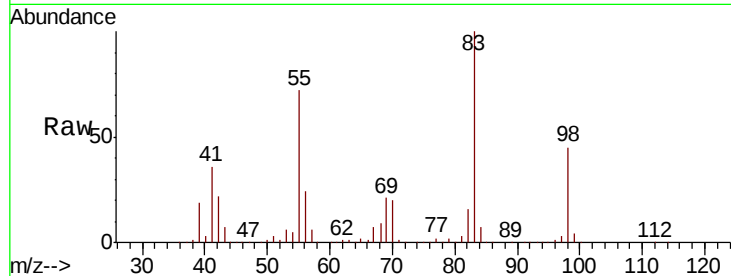


#39
Methvlcvclohexane
Concen: 86.01 ug/l
RT: 9.08 min Scan# 2272
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

Tot Ion	83	Resp	889797
Ion Ratio	100	Lower	Upper
83	100		
55	72.3	58.4	87.6
98	45.5	37.3	55.9

Manual Integrations
APPROVED

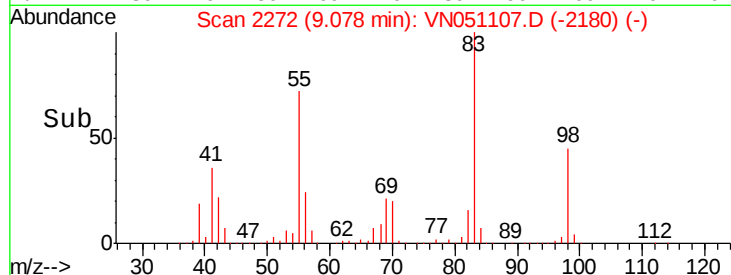
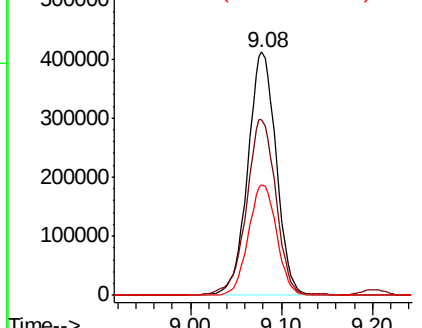


Abundance

Ion 83.00 (82.70 to 83.70): VN051107.D (-2254) (-)

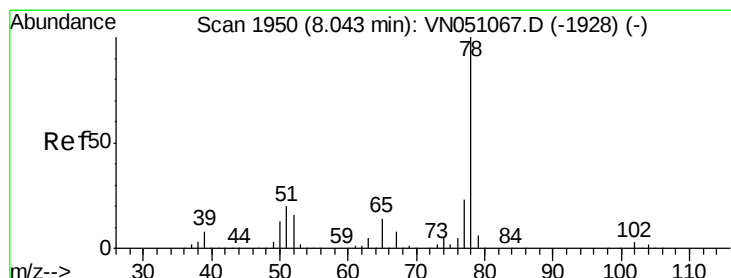
Ion 55.00 (54.70 to 55.70): VN051107.D (-2254) (-)

Ion 98.00 (97.70 to 98.70): VN051107.D (-2254) (-)



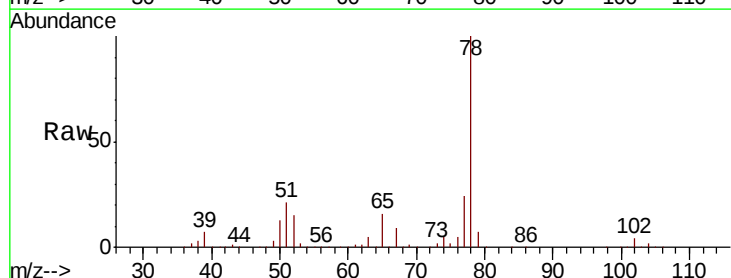
MMDadoda

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#40
Benzene
Concen: 48.78 ug/l
RT: 8.04 min Scan# 1949
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

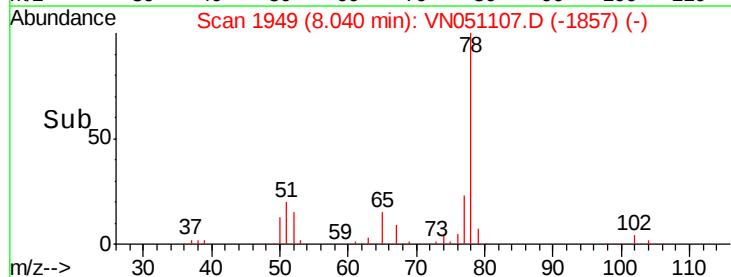
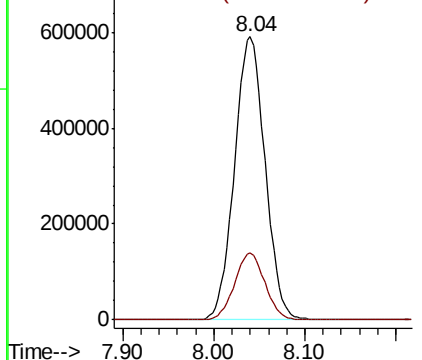
Tgt Ion	78	Resp	1378080
Ion Ratio	100	Lower	Upper
78	100		
77	23.7	18.6	27.8

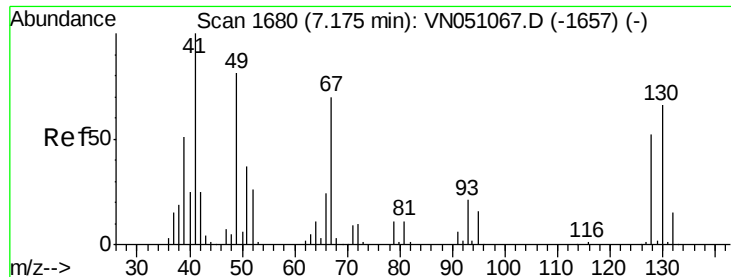


Abundance

Ion 78.00 (77.70 to 78.70): VN051107.D (-1928) (-)

Ion 77.00 (76.70 to 77.70): VN051107.D (-1928) (-)



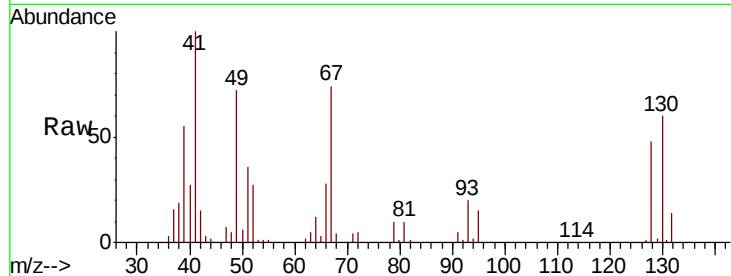


#41
Methacrylonitrile
Concen: 52.47 ug/l
RT: 7.17 min Scan# 1679
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

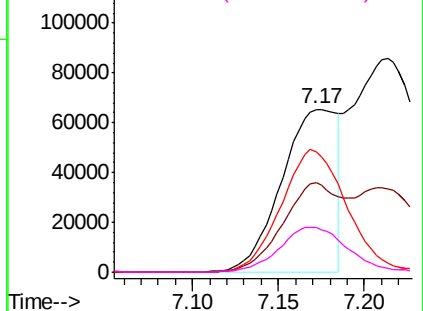
Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

Tot Ion	Ratio	Lower	Upper
41	100		
39	59.6	51.3	76.9
67	89.9	78.5	117.7
52	34.3	29.0	43.6

Manual Integrations
APPROVED

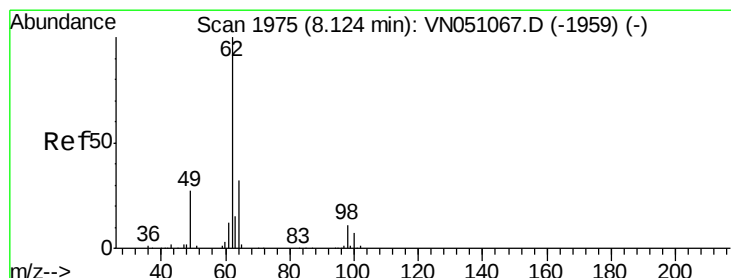
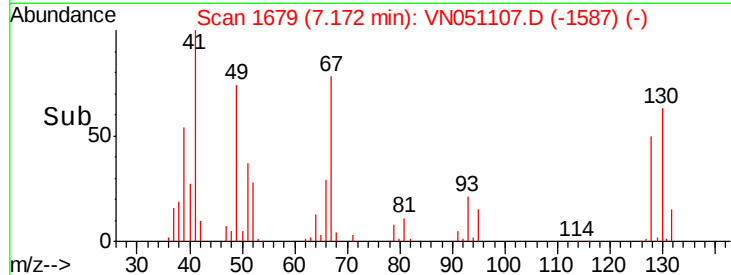


Abundance Ion 41.00 (40.70 to 41.70): VNO
Ion 39.00 (38.70 to 39.70): VNO
Ion 67.00 (66.70 to 67.70): VNO
Ion 52.00 (51.70 to 52.70): VNO



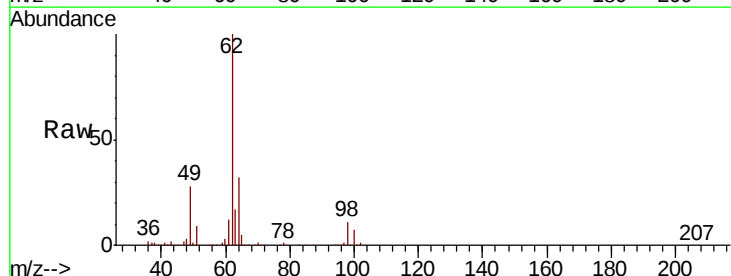
MMDadoda

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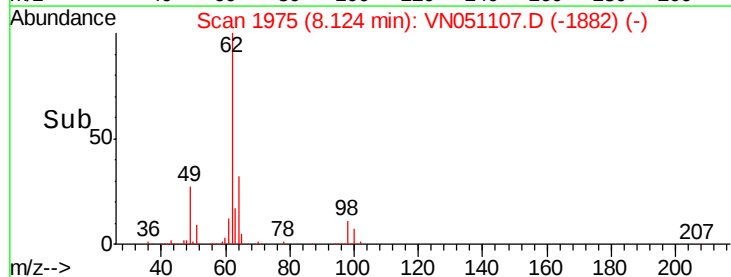
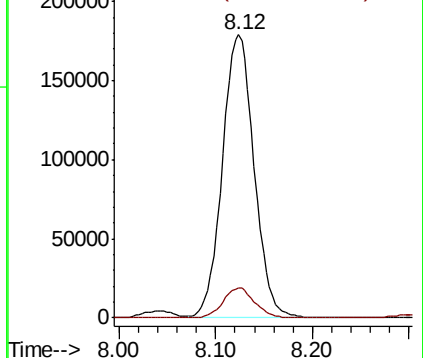


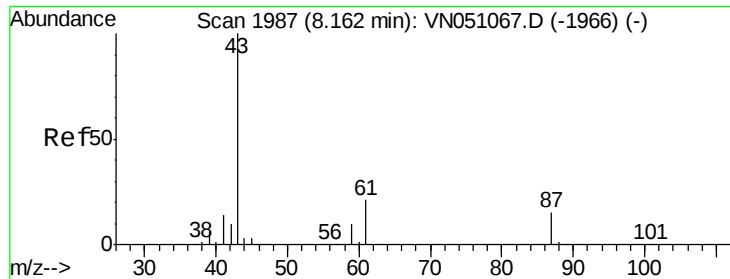
#42
1,2-Dichloroethane
Concen: 49.37 ug/l
RT: 8.12 min Scan# 1975
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Lower	Upper
62	100		
98	10.6	0.0	21.0



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





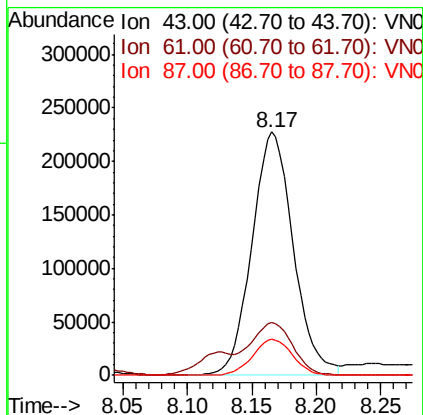
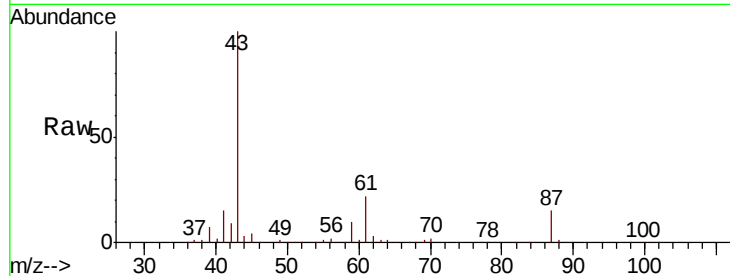
#43

Isopropyl Acetate
 Concen: 52.97 ug/l
 RT: 8.17 min Scan# 1988
 Delta R.T. 0.00 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-C(15-20)MS

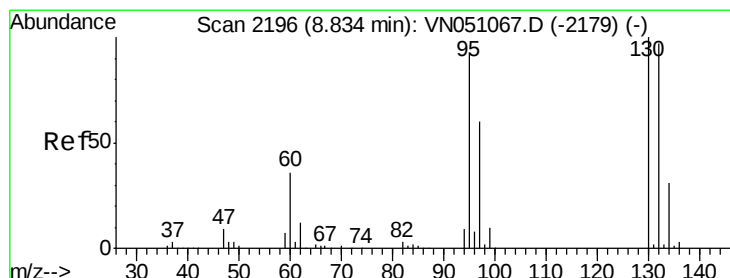
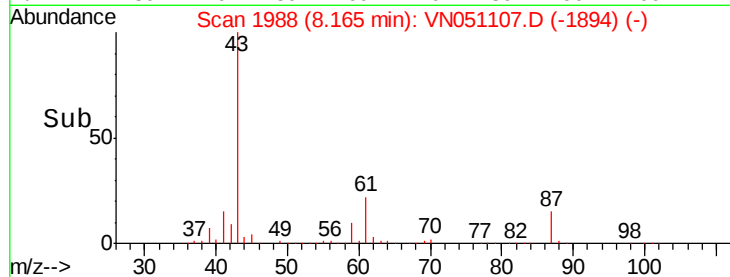
Tot Ion	Ratio	Lower	Upper
43	100		
61	21.5	25.0	37.6#
87	14.4	11.8	17.8

Manual Integrations
 APPROVED



MMDadoda

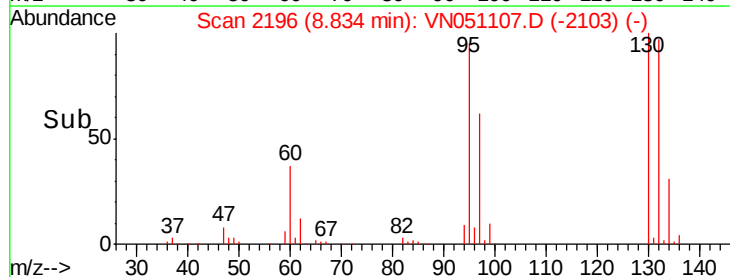
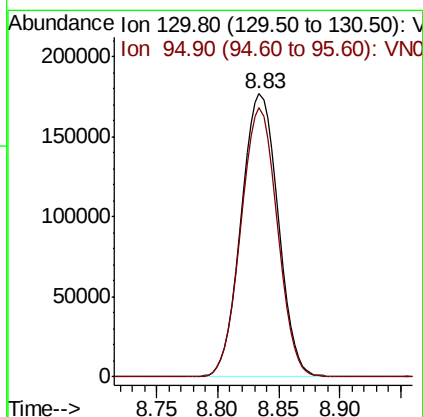
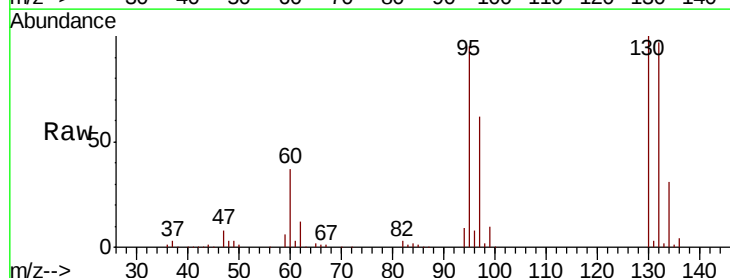
9/11/2018 9:41:53 AM

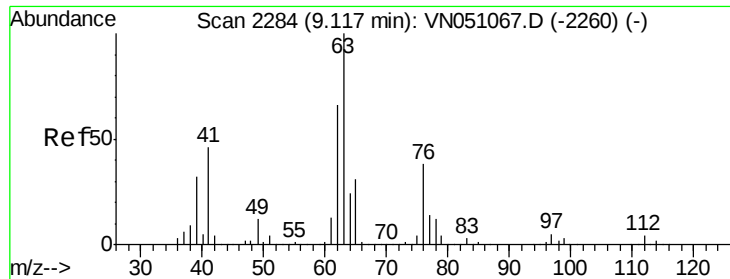


#44

Trichloroethene
 Concen: 47.99 ug/l
 RT: 8.83 min Scan# 2196
 Delta R.T. -0.00 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Lower	Upper
130	100		
95	94.9	0.0	186.2



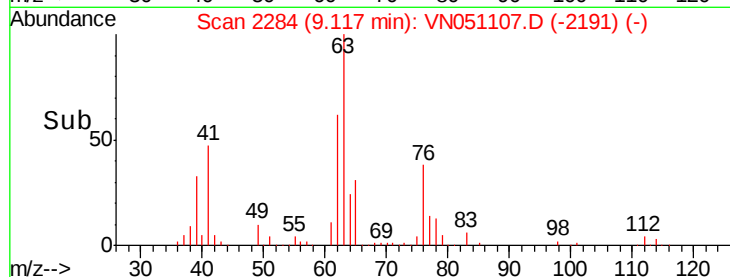
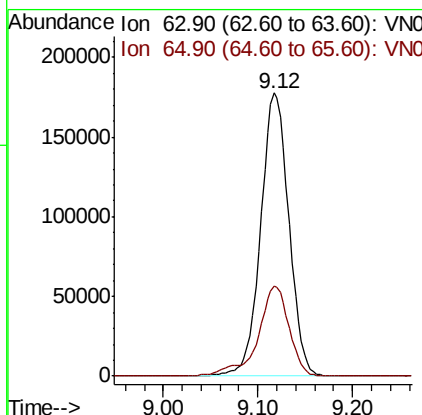
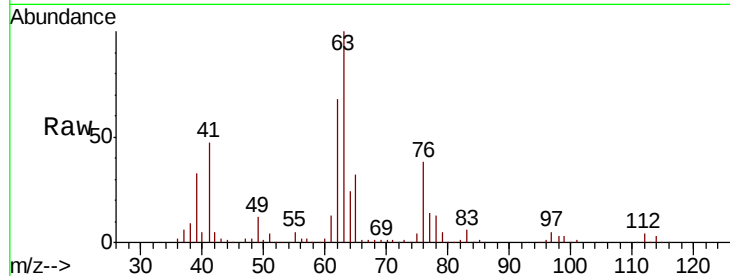


#45
 1,2-Dichloropropane
 Concen: 50.16 ug/l
 RT: 9.12 min Scan# 2284
 Delta R.T. -0.00 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-C(15-20)MS

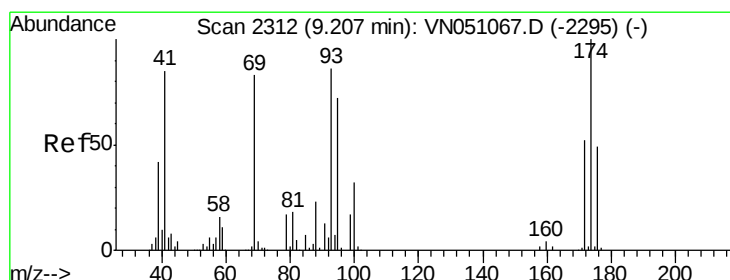
Tot Ion: 63 Resp: 366174
 Ion Ratio Lower Upper
 63 100
 65 31.7 24.7 37.1

Manual Integrations
 APPROVED



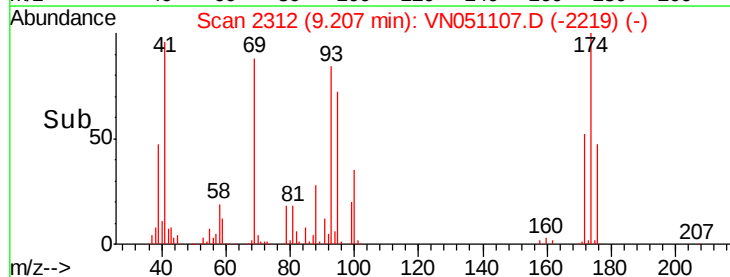
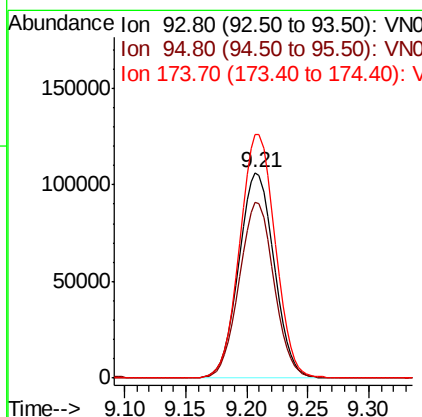
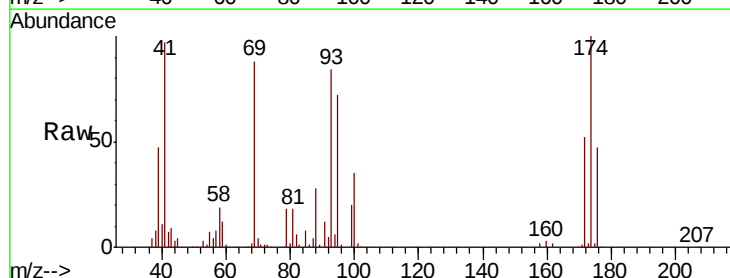
MMDadoda

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#46
 Dibromomethane
 Concen: 47.91 ug/l
 RT: 9.21 min Scan# 2312
 Delta R.T. -0.00 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Tgt Ion: 93 Resp: 213398
 Ion Ratio Lower Upper
 93 100
 95 84.3 66.8 100.2
 174 118.8 93.3 139.9





#47

Bromodichloromethane

Concen: 48.95 ug/l

RT: 9.40 min Scan# 2373

Delta R.T. -0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

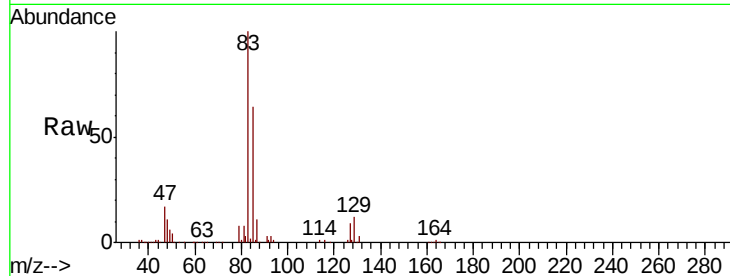
MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

Tot Ion:	83	Resp:	443305
Ion Ratio	Lower	Upper	
83	100		
85	64.0	52.3	78.5
127	8.8	7.5	11.3

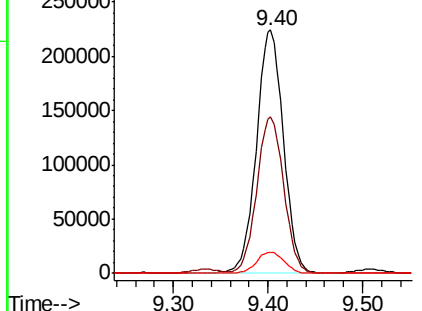
Manual Integrations
APPROVED



Abundance Ion 82.90 (82.60 to 83.60): VN051107.D (-2280) (-)

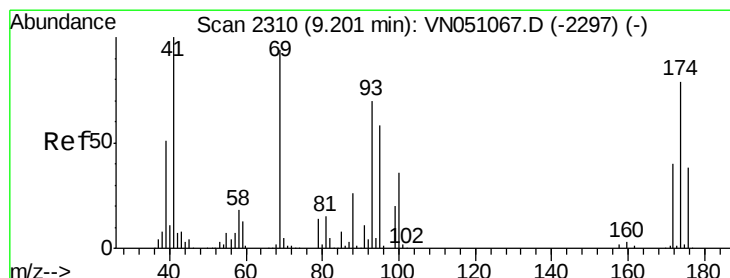
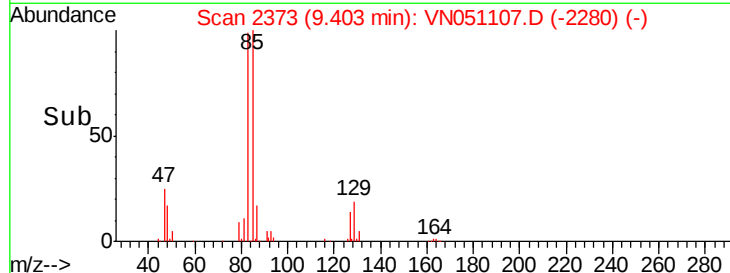
Ion 84.90 (84.60 to 85.60): VN051107.D (-2280) (-)

Ion 126.80 (126.50 to 127.50): VN051107.D (-2280) (-)



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#48

Methyl methacrylate

Concen: 52.91 ug/l

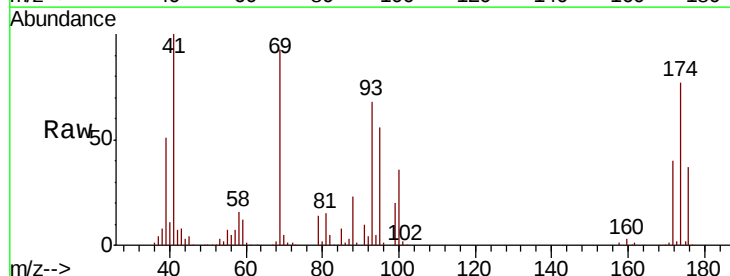
RT: 9.20 min Scan# 2310

Delta R.T. -0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

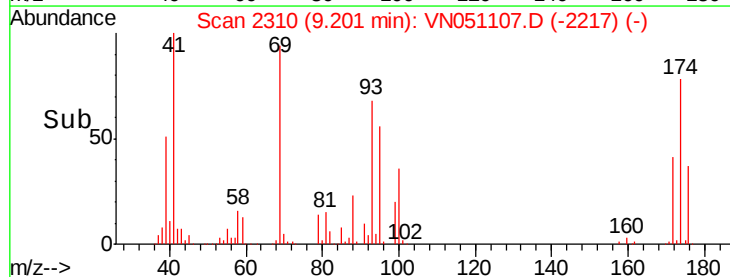
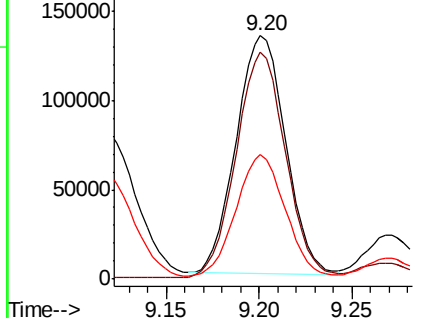
Tgt Ion:	41	Resp:	247045
Ion Ratio	Lower	Upper	
41	100		
69	95.1	77.7	116.5
39	53.0	41.6	62.4

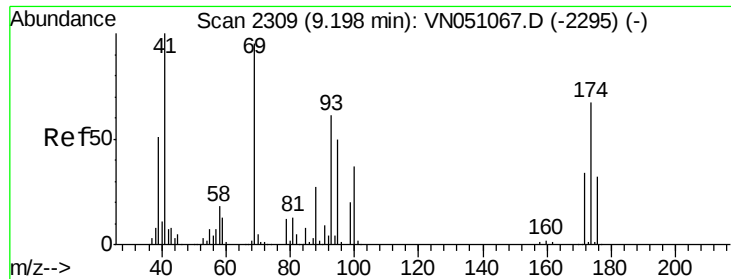


Abundance Ion 41.00 (40.70 to 41.70): VN051107.D (-2217) (-)

Ion 69.00 (68.70 to 69.70): VN051107.D (-2217) (-)

Ion 39.00 (38.70 to 39.70): VN051107.D (-2217) (-)



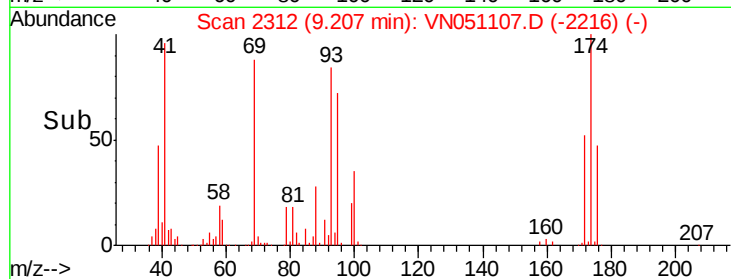
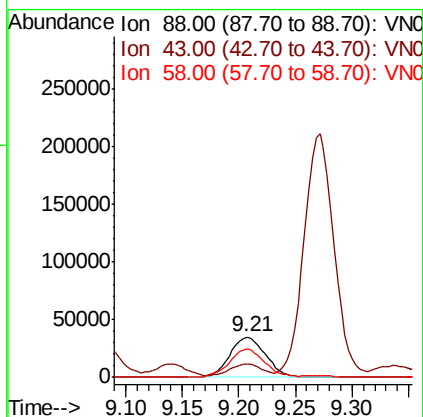
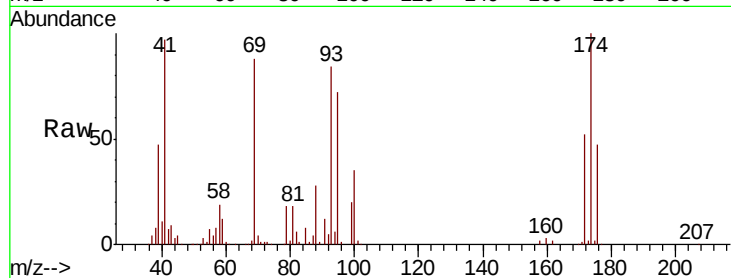


#49
1,4-Dioxane
Concen: 1057.29 ug/l
RT: 9.21 min Scan# 2312
Delta R.T. 0.01 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

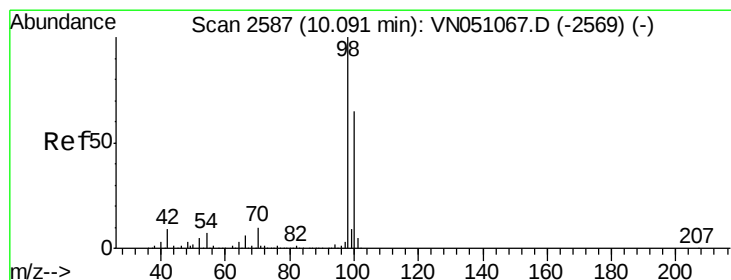
Tot Ion	Ratio	Lower	Upper
88	100		
43	26.7	23.7	35.5
58	68.0	54.6	82.0

Manual Integrations
APPROVED



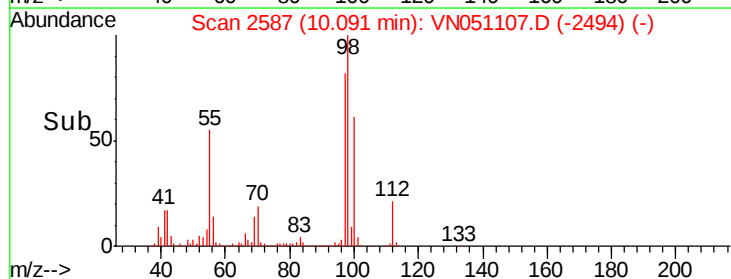
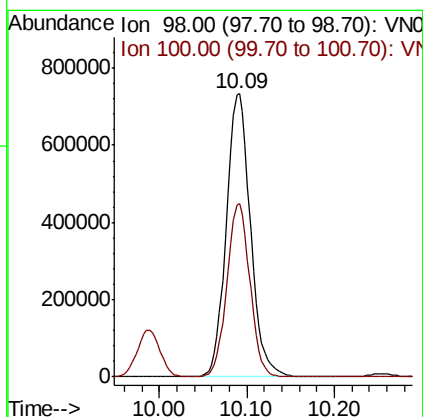
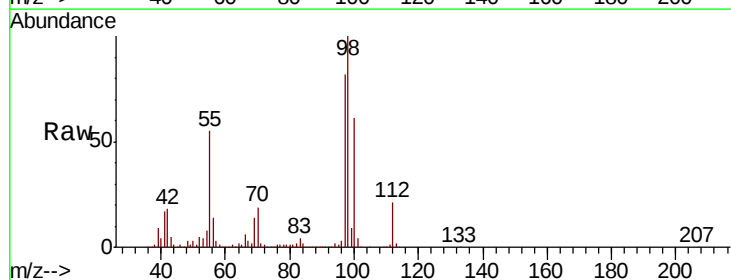
MMDadoda

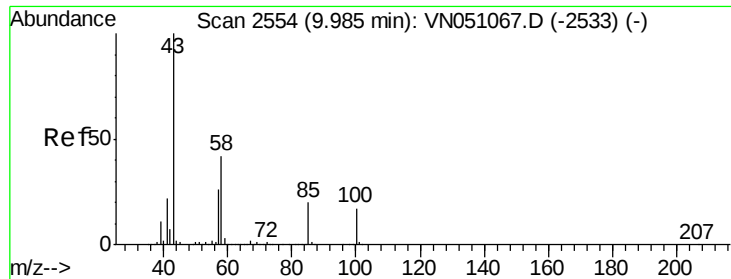
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#50
Toluene-d8
Concen: 57.81 ug/l
RT: 10.09 min Scan# 2587
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Lower	Upper
98	100		
100	58.3	52.0	78.0



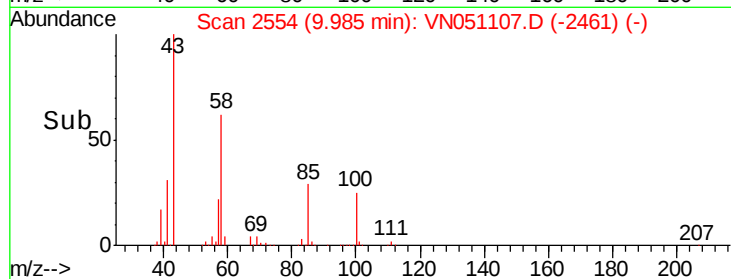
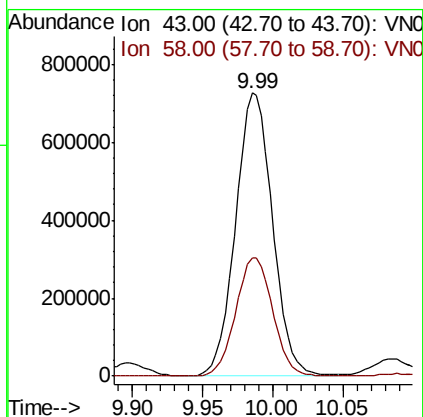
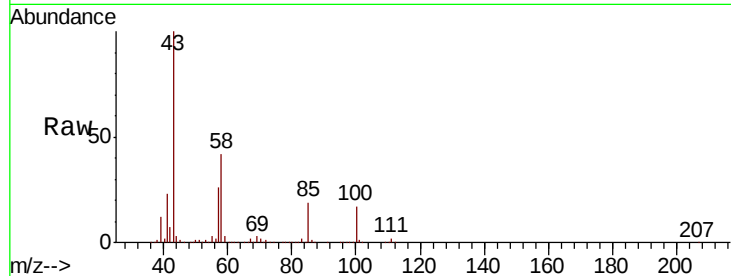


#51
4-Methyl-2-Pentanone
Concen: 250.98 ug/l
RT: 9.99 min Scan# 2554
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

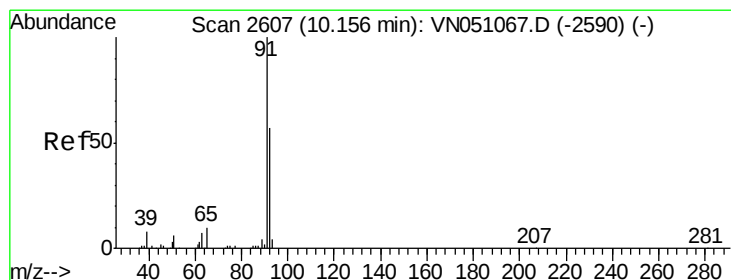
Tot Ion: 43 Resp: 1329819
Ion Ratio Lower Upper
43 100
58 42.0 33.5 50.3

Manual Integrations
APPROVED



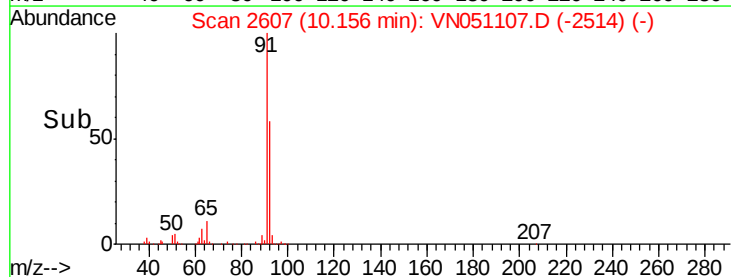
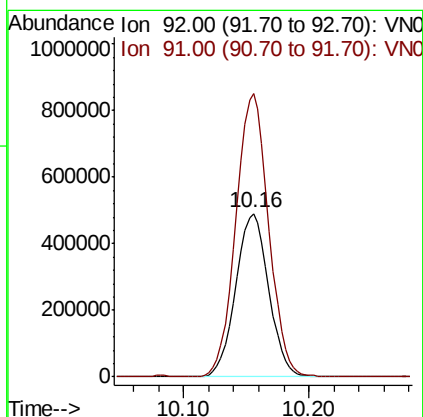
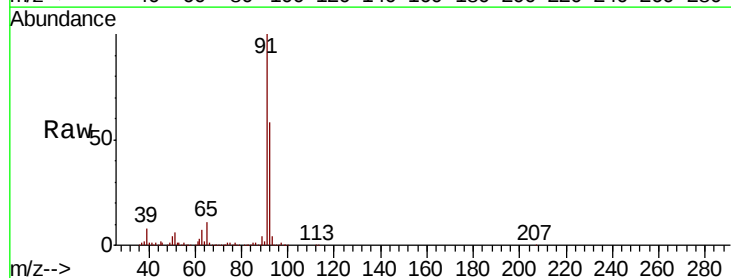
MMDadoda

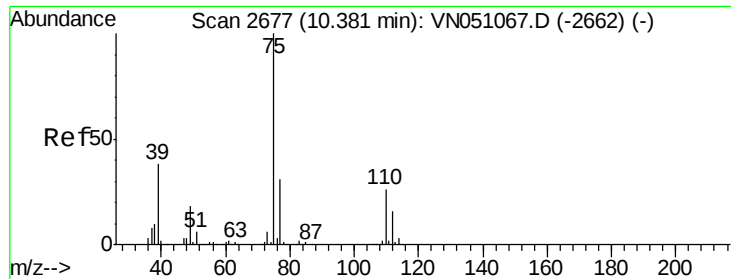
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#52
Toluene
Concen: 51.69 ug/l
RT: 10.16 min Scan# 2607
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion: 92 Resp: 890587
Ion Ratio Lower Upper
92 100
91 172.4 139.5 209.3



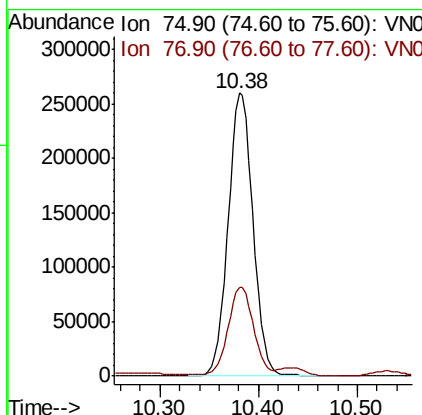
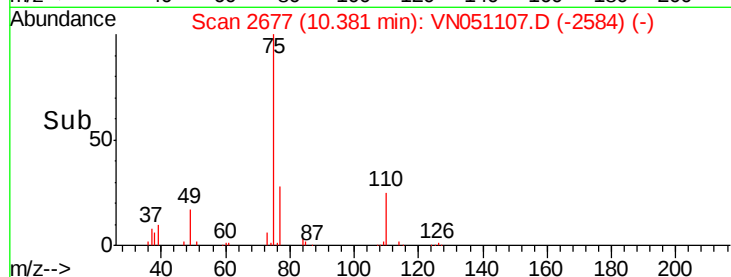
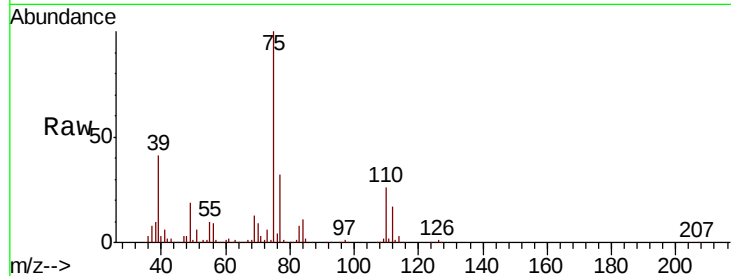


#53
t-1,3-Dichloropropene
Concen: 50.60 ug/l
RT: 10.38 min Scan# 2677
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

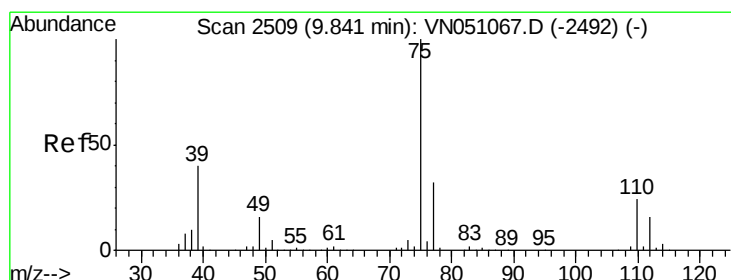
Tot Ion: 75 Resp: 458698
Ion Ratio Lower Upper
75 100
77 31.4 25.3 37.9

Manual Integrations
APPROVED



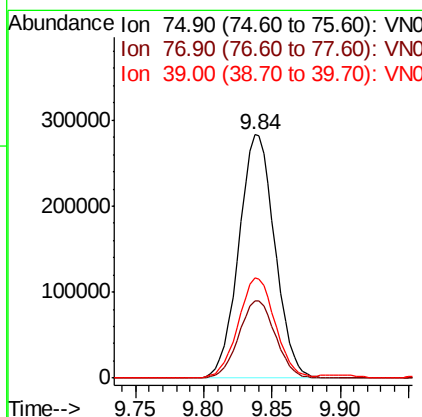
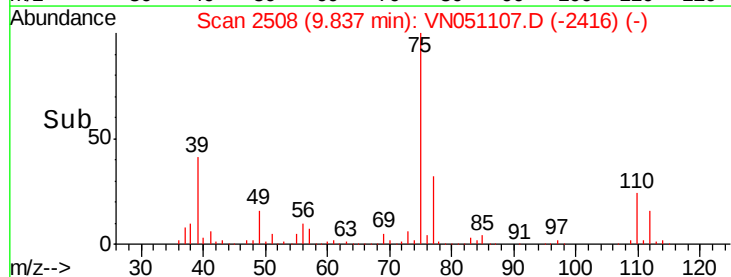
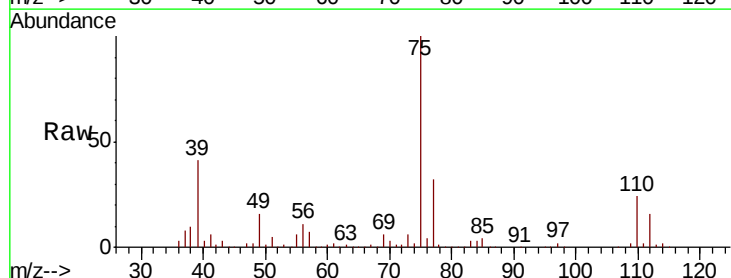
MMDadoda

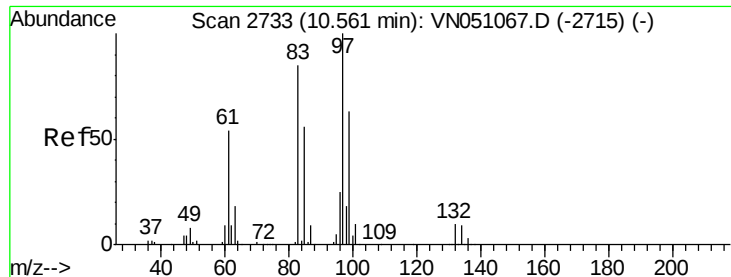
9/11/2018 9:41:53 AM



#54
cis-1,3-Dichloropropene
Concen: 48.82 ug/l
RT: 9.84 min Scan# 2508
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion: 75 Resp: 518897
Ion Ratio Lower Upper
75 100
77 31.9 25.7 38.5
39 41.0 31.9 47.9



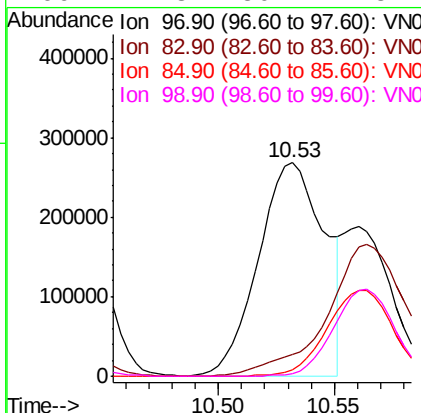
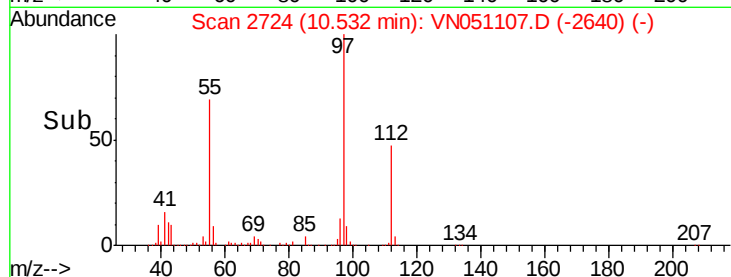
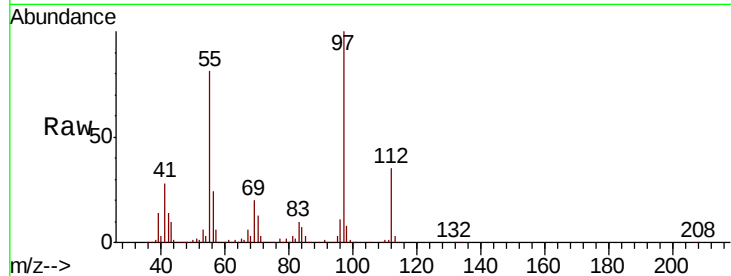


#55
1,1,2-Trichloroethane
Concen: 84.94 ug/l
RT: 10.53 min Scan# 2724
Delta R.T. -0.03 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

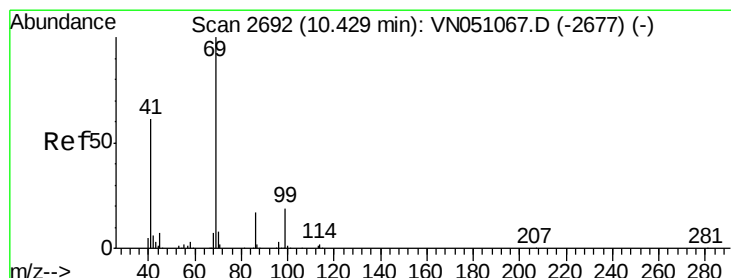
Tot Ion:	97	Resp:	531581
Ion Ratio	Lower	Upper	
97	100		
83	10.0	68.2	102.2#
85	3.2	44.8	67.2#
99	1.3	50.2	75.4#

Manual Integrations
APPROVED



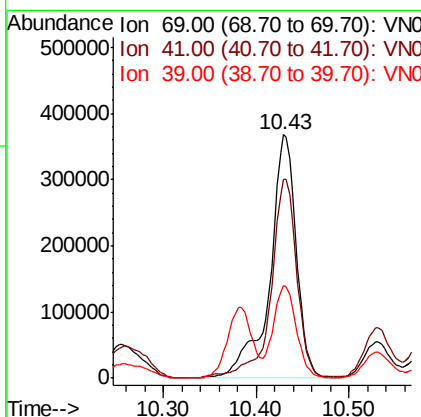
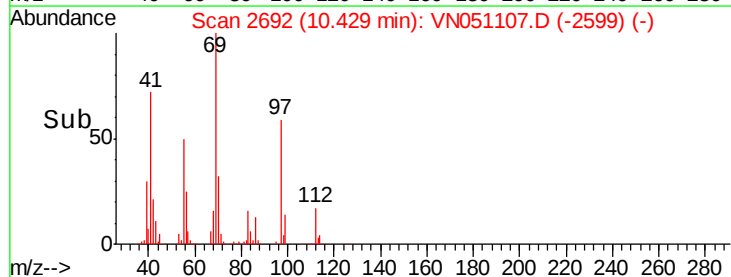
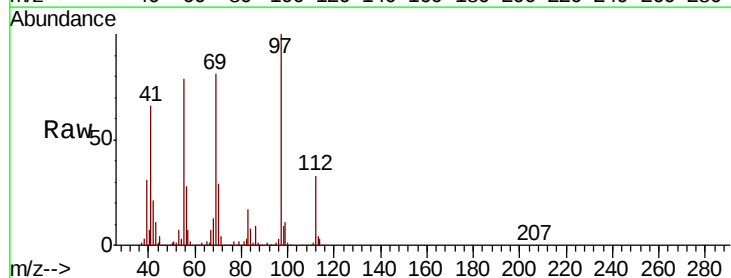
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#56
Ethyl methacrylate
Concen: 85.84 ug/l
RT: 10.43 min Scan# 2692
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion:	69	Resp:	736433
Ion Ratio	Lower	Upper	
69	100		
41	79.2	47.8	71.8#
39	32.8	23.0	34.4





#57

1,3-Dichloropropane

Concen: 52.14 ug/l

RT: 10.71 min Scan# 2779

Delta R.T. 0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

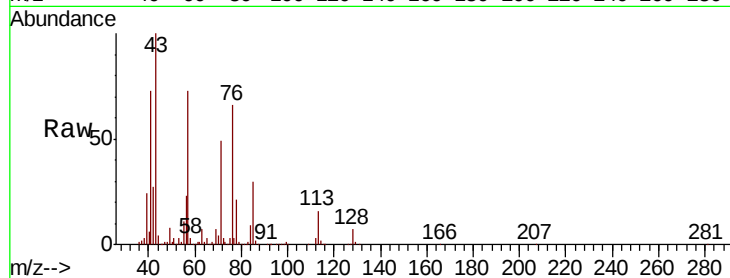
Tot Ion: 76 Resp: 540990

Ion Ratio Lower Upper

76 100

78 32.2 26.1 39.1

Manual Integrations
APPROVED



Abundance Ion 75.90 (75.60 to 76.60): VN0

Ion 77.90 (77.60 to 78.60): VN0

10.71

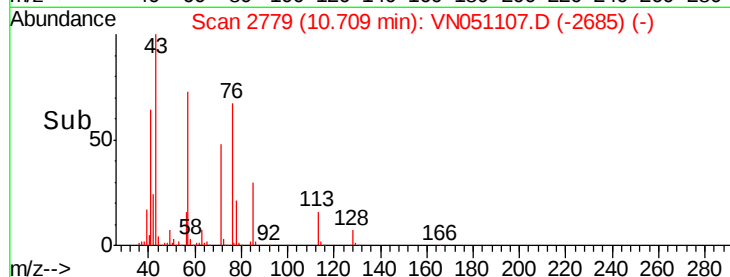
300000

200000

100000

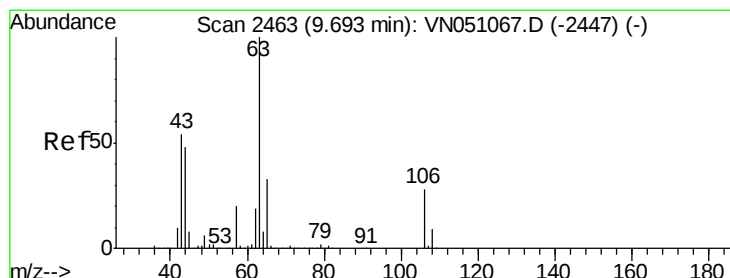
0

Time--> 10.60 10.70 10.80



MMDadoda

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#58

2-Chloroethyl Vinyl ether

Concen: 261.01 ug/l

RT: 9.70 min Scan# 2464

Delta R.T. 0.00 min

Lab File: VN051107.D

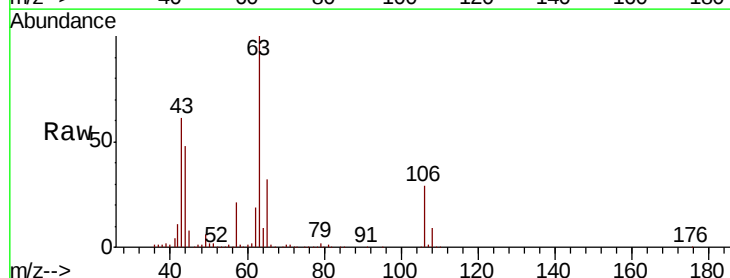
Acq: 11 Sep 2018 4:03

Tgt Ion: 63 Resp: 923989

Ion Ratio Lower Upper

63 100

106 28.6 22.5 33.7



Abundance Ion 62.90 (62.60 to 63.60): VN0

Ion 105.90 (105.60 to 106.60): V

9.70

600000

500000

400000

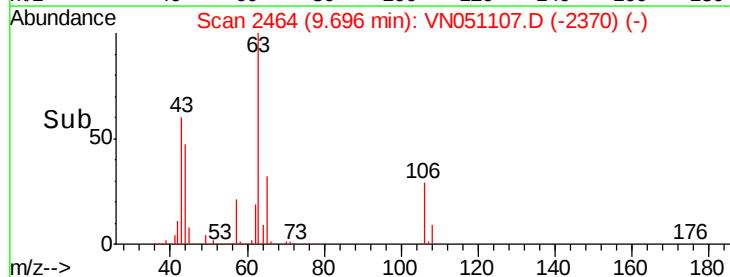
300000

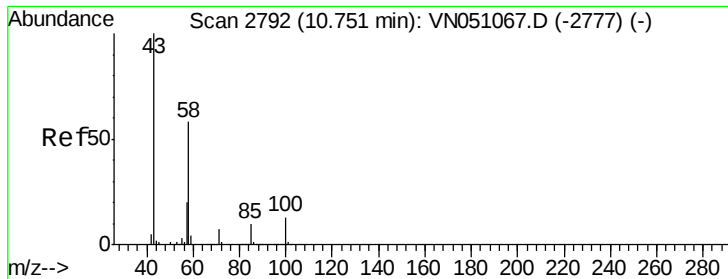
200000

100000

0

Time--> 9.60 9.70 9.80



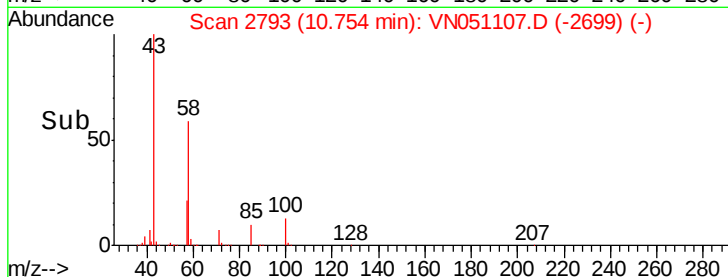
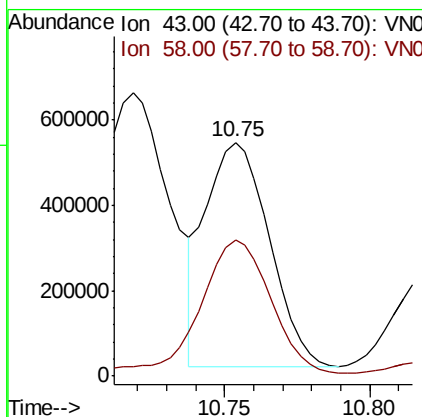
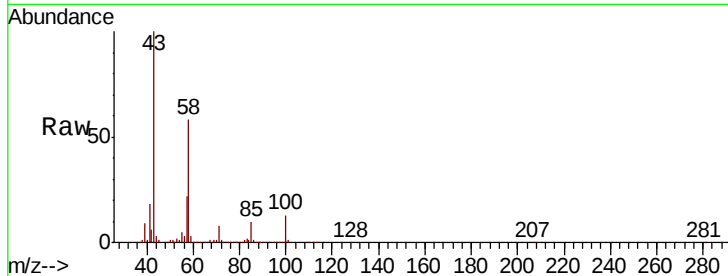


#59
2-Hexanone
Concen: 221.79 ug/l
RT: 10.75 min Scan# 2793
Delta R.T. 0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

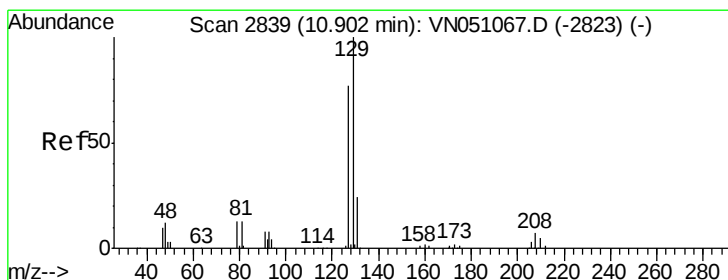
Tot Ion: 43 Resp: 796979
Ion Ratio Lower Upper
43 100
58 70.9 29.3 88.0

Manual Integrations
APPROVED



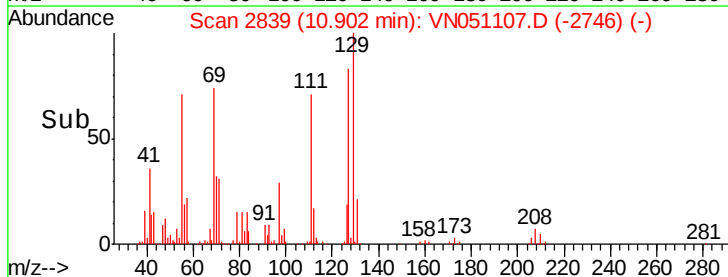
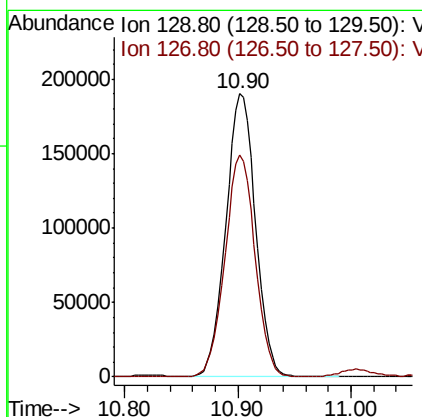
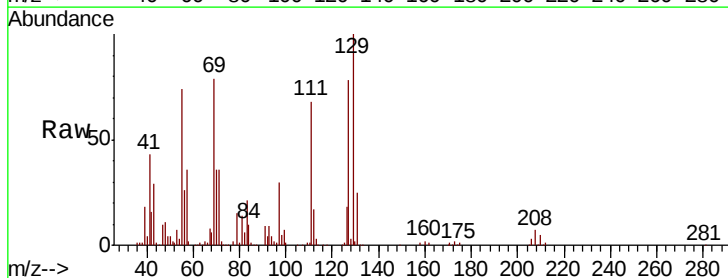
MMDadoda

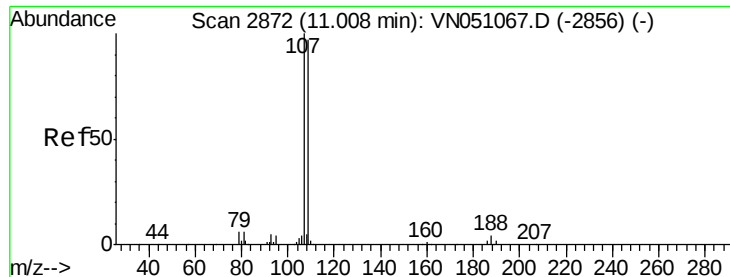
9/11/2018 9:41:53 AM



#60
Dibromochloromethane
Concen: 49.24 ug/l
RT: 10.90 min Scan# 2839
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion: 129 Resp: 347307
Ion Ratio Lower Upper
129 100
127 79.1 38.5 115.5





#61

1,2-Dibromoethane

Concen: 51.83 ug/l

RT: 11.01 min Scan# 2872

Delta R.T. -0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

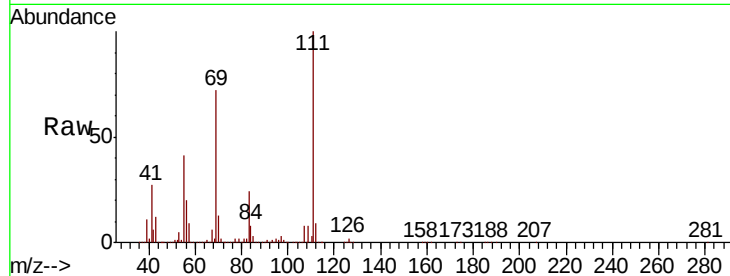
Tot Ion: 107 Resp: 317103

Ion Ratio Lower Upper

107 100

109 98.4 76.0 114.0

Manual Integrations
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Abundance Ion 106.90 (106.60 to 107.60): V

Ion 108.80 (108.50 to 109.50): V

11.01

200000

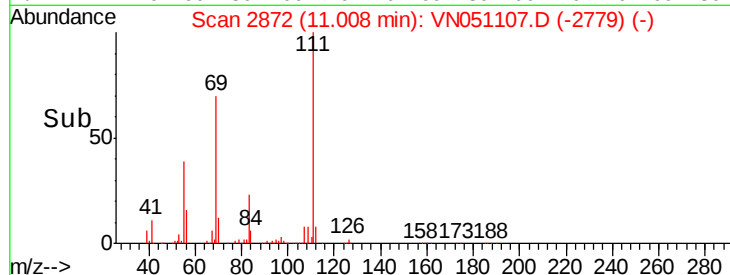
150000

100000

50000

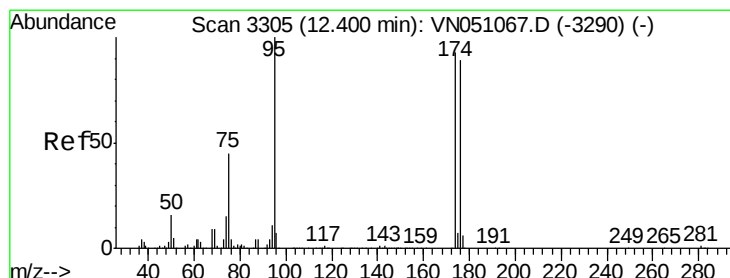
0

Time-->



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#62

4-Bromofluorobenzene

Concen: 133.78 ug/l

RT: 12.39 min Scan# 3303

Delta R.T. -0.01 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

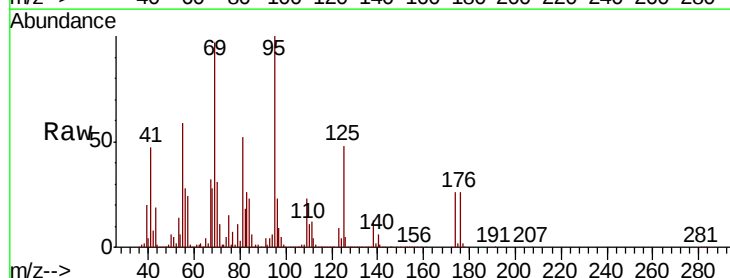
Tgt Ion: 95 Resp: 1077616

Ion Ratio Lower Upper

95 100

174 34.5 0.0 184.8

176 33.9 0.0 178.6



Abundance Ion 94.90 (94.60 to 95.60): V

Ion 173.80 (173.50 to 174.50): V

Ion 175.80 (175.50 to 176.50): V

1200000

1000000

800000

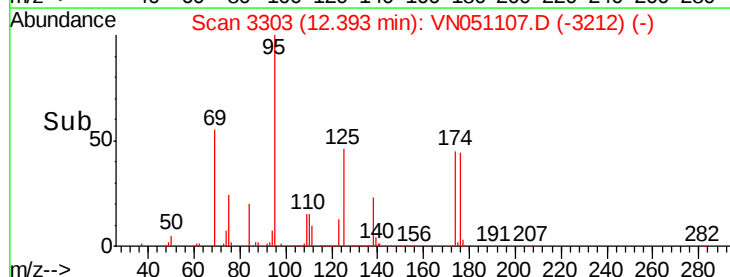
600000

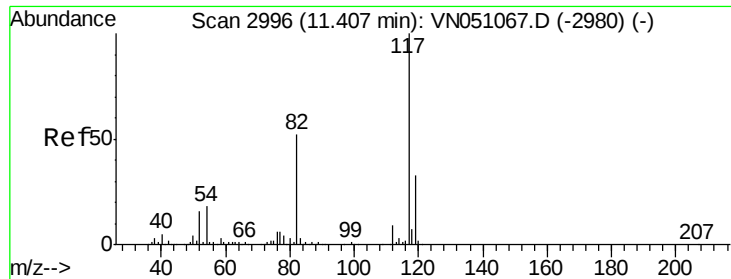
400000

200000

0

Time-->



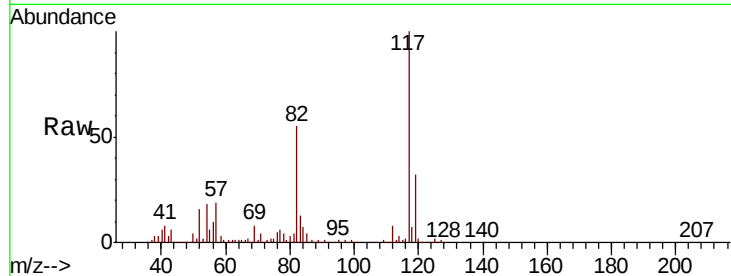


#63
Chlorobenzene-d5
Concen: 50.00 ug/l
RT: 11.41 min Scan# 2996
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

Tot Ion	Ratio	Lower	Upper
117	100		
82	47.7	41.8	62.6
119	32.3	26.2	39.2

Manual Integrations
APPROVED

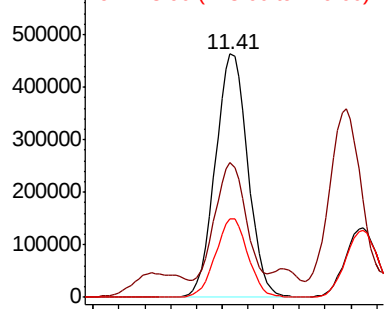


Abundance

Ion 116.90 (116.60 to 117.60): V

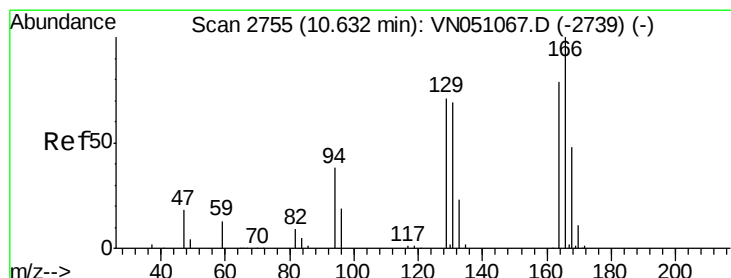
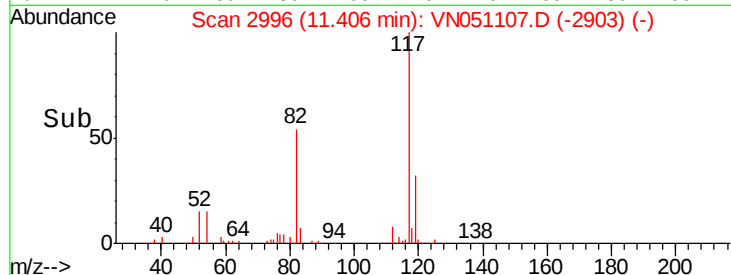
Ion 82.00 (81.70 to 82.70): V

Ion 118.90 (118.60 to 119.60): V



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#64
Tetrachloroethene
Concen: 47.47 ug/l
RT: 10.63 min Scan# 2755
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Lower	Upper
164	100		
166	128.7	101.3	151.9
129	92.4	72.2	108.2
131	88.2	70.2	105.2

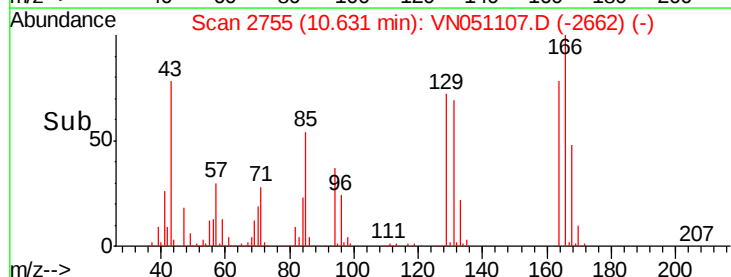
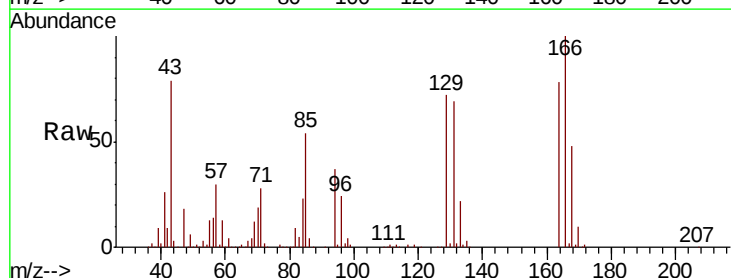
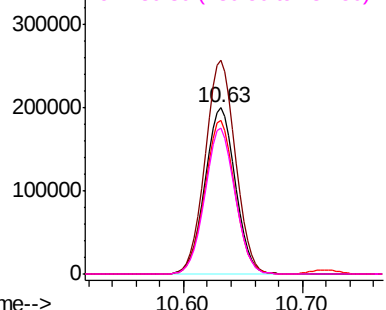
Abundance

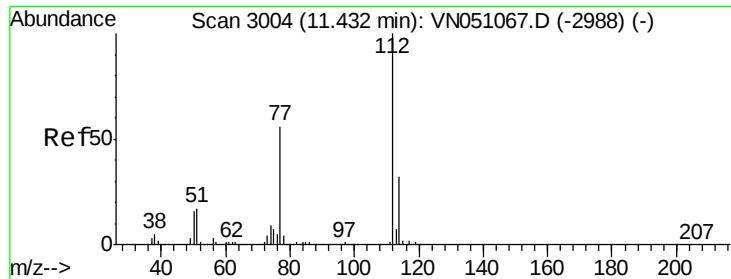
Ion 163.80 (163.50 to 164.50): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.80 (128.50 to 129.50): V

Ion 130.80 (130.50 to 131.50): V



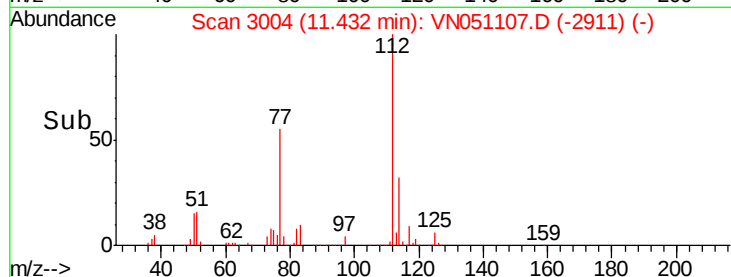
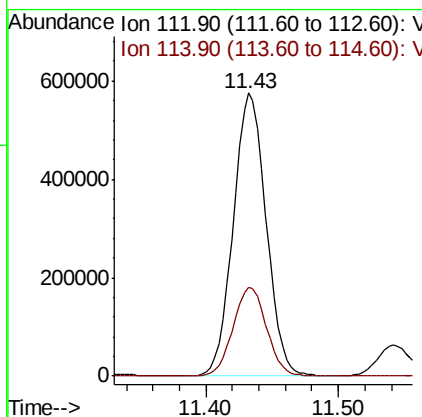
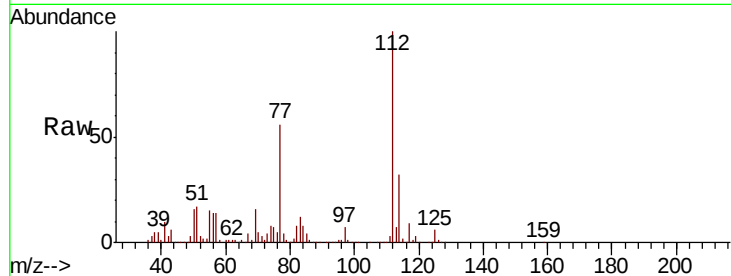


#65
Chlorobenzene
Concen: 48.19 ug/l
RT: 11.43 min Scan# 3004
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

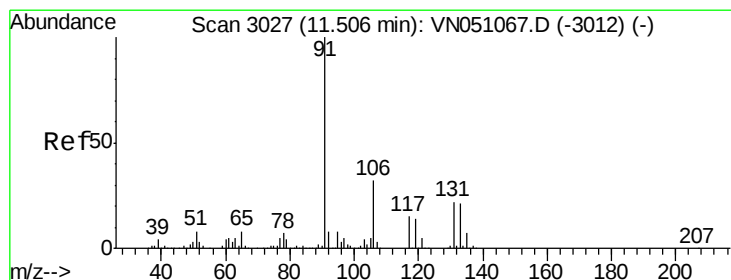
Tot Ion	Ratio	Lower	Upper
112	100		
114	31.6	25.8	38.6

Manual Integrations
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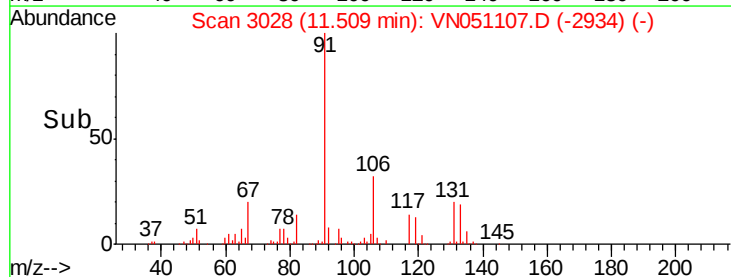
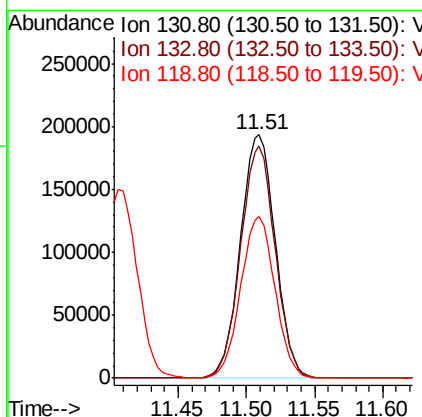
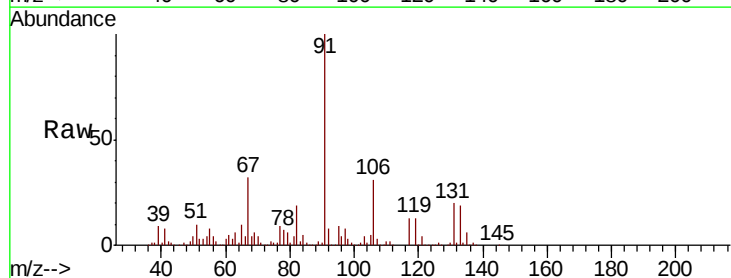
MMDadoda

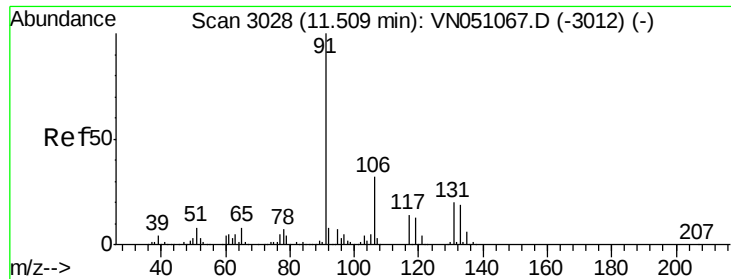
9/11/2018 9:41:53 AM



#66
1,1,1,2-Tetrachloroethane
Concen: 46.41 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. 0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Lower	Upper
131	100		
133	94.8	47.5	142.6
119	65.6	33.2	99.6



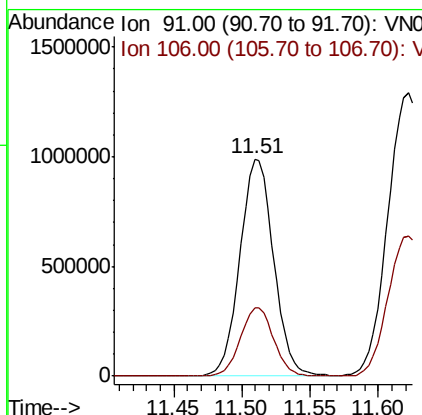
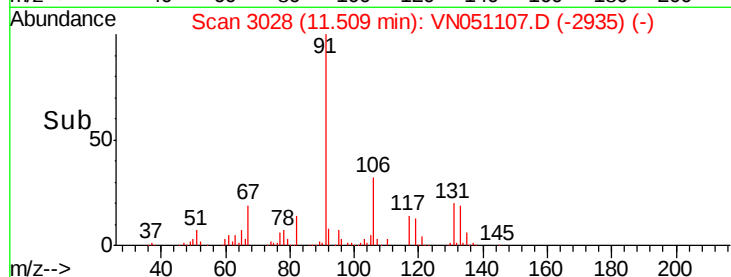
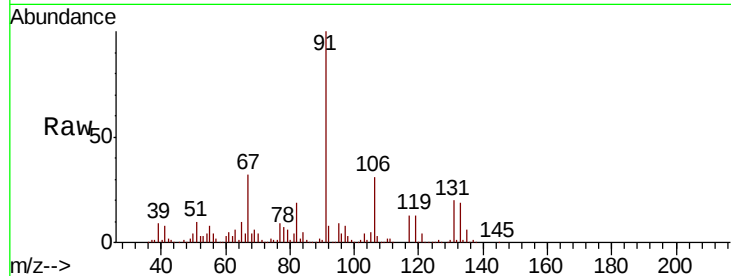


#67
Ethyl Benzene
Concen: 51.02 ug/l
RT: 11.51 min Scan# 3028
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

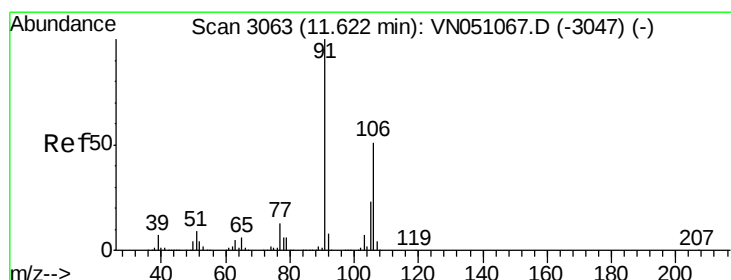
Tot Ion: 91 Resp: 1692880
Ion Ratio Lower Upper
91 100
106 31.4 25.4 38.2

Manual Integrations
APPROVED



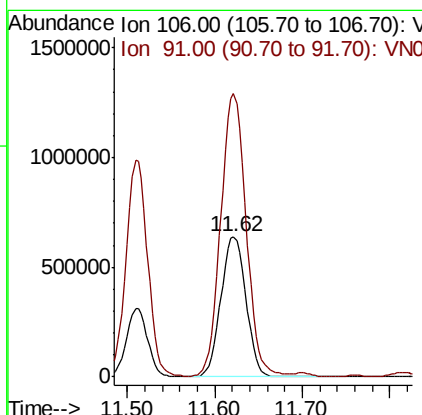
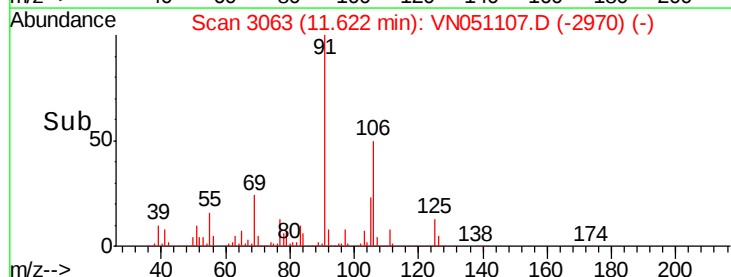
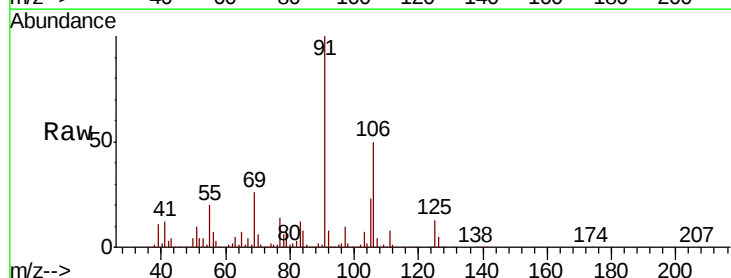
MMDadoda

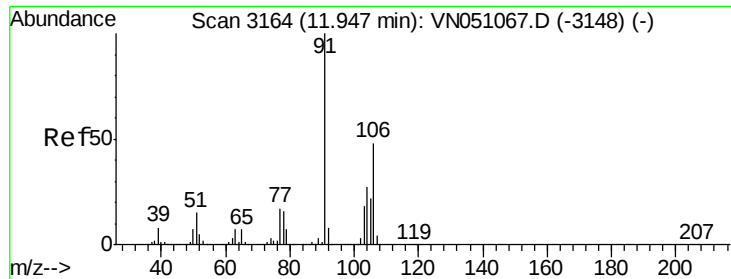
9/11/2018 9:41:53 AM



#68
m/p-Xylenes
Concen: 99.64 ug/l
RT: 11.62 min Scan# 3063
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion: 106 Resp: 1270332
Ion Ratio Lower Upper
106 100
91 203.6 159.8 239.6



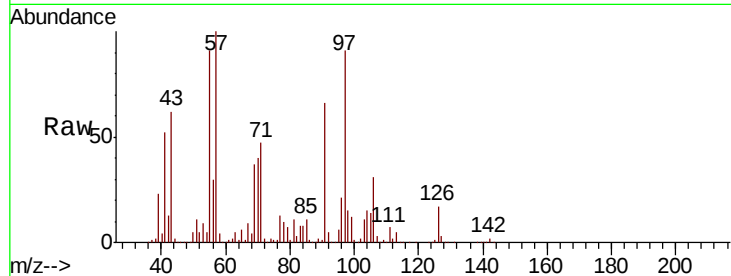


#69
o-Xylene
Concen: 49.20 ug/l
RT: 11.95 min Scan# 3164
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

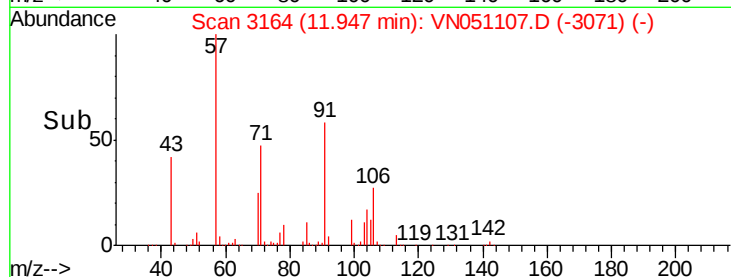
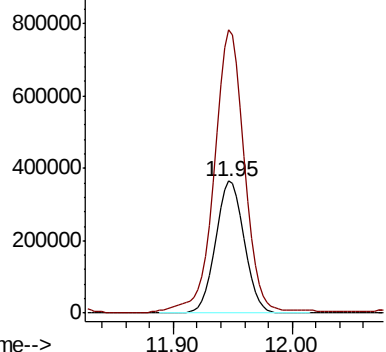
Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

Tot Ion:106 Resp: 607478
Ion Ratio Lower Upper
106 100
91 224.6 105.1 315.1

Manual Integrations
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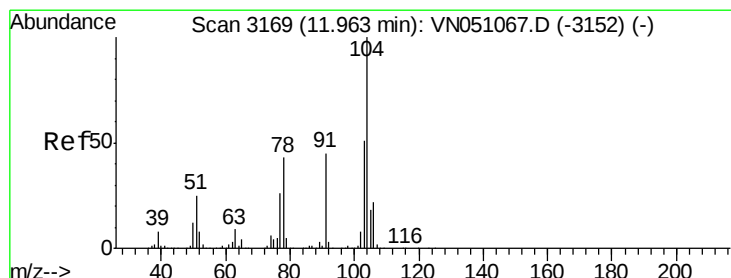


Abundance Ion 106.00 (105.70 to 106.70): V
Ion 91.00 (90.70 to 91.70): V



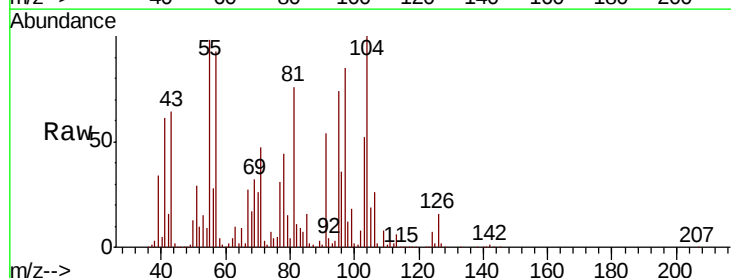
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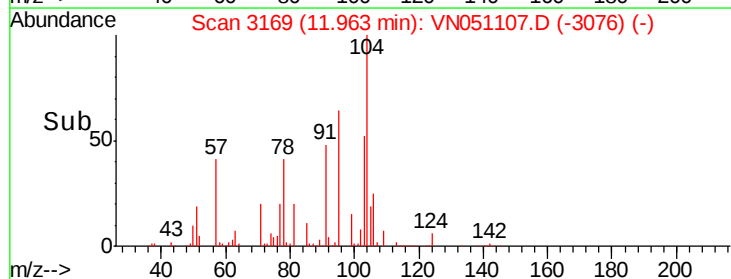
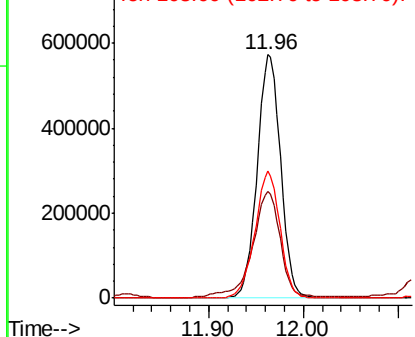


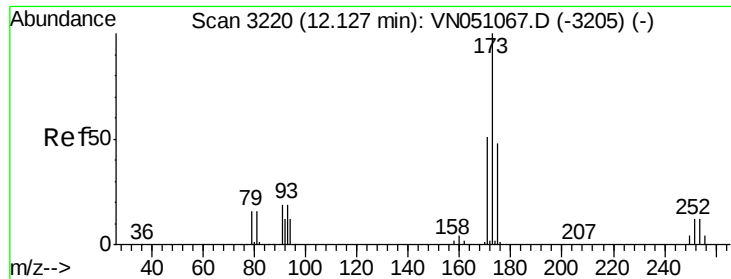
#70
Styrene
Concen: 51.43 ug/l
RT: 11.96 min Scan# 3169
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion:104 Resp: 985037
Ion Ratio Lower Upper
104 100
78 52.2 37.7 56.5
103 56.0 44.6 67.0



Abundance Ion 104.00 (103.70 to 104.70): V
Ion 78.00 (77.70 to 78.70): V
Ion 103.00 (102.70 to 103.70): V



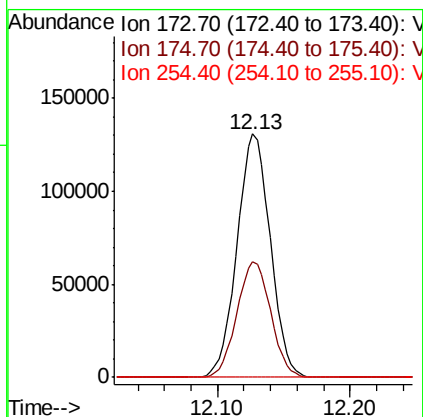
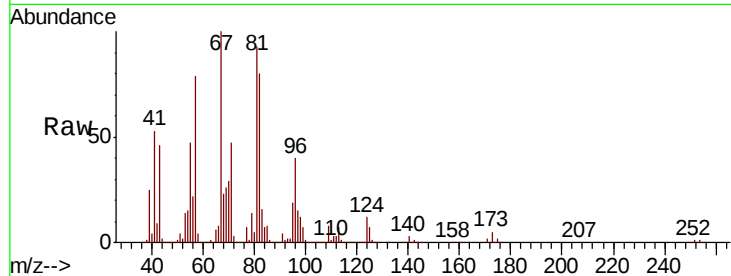


#71
Bromoform
Concen: 43.88 ug/l
RT: 12.13 min Scan# 3220
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

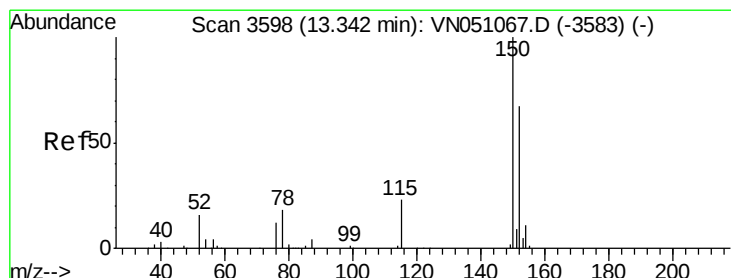
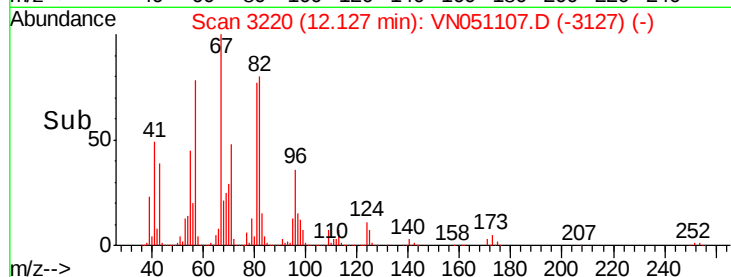
Tot Ion	Ratio	Lower	Upper
173	100		
175	48.3	24.3	72.9
254	0.1	0.0	0.0

Manual Integrations
APPROVED



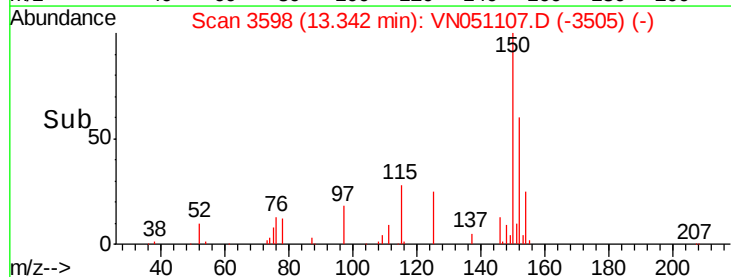
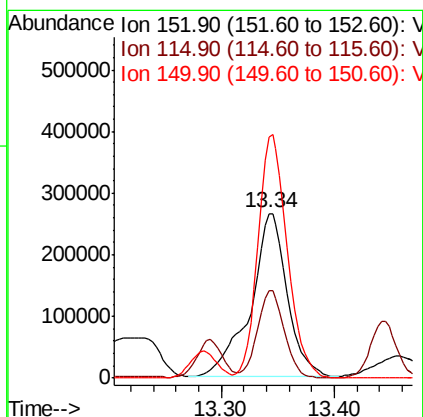
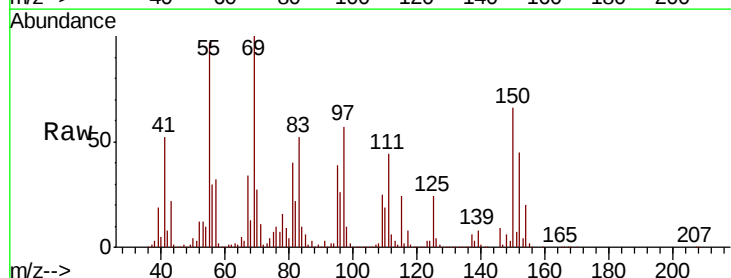
MMDadoda

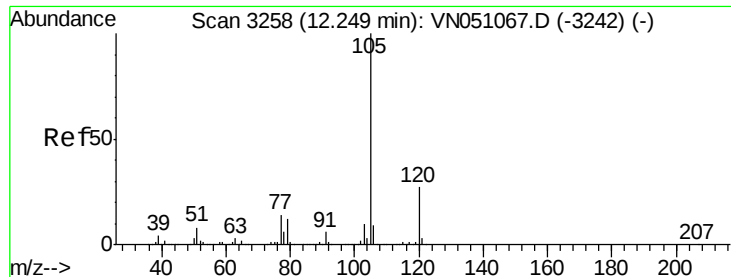
9/11/2018 9:41:53 AM



#72
1,4-Dichlorobenzene-d4
Concen: 50.00 ug/l
RT: 13.34 min Scan# 3598
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Lower	Upper
152	100		
115	39.1	28.2	84.7
150	119.3	0.0	349.0





#73

Isopropylbenzene

Concen: 112.78 ug/l

RT: 12.25 min Scan# 3259

Delta R.T. 0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

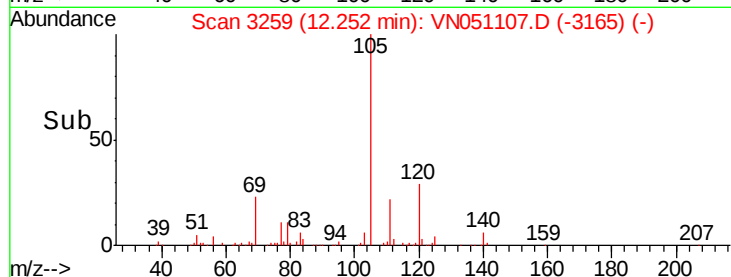
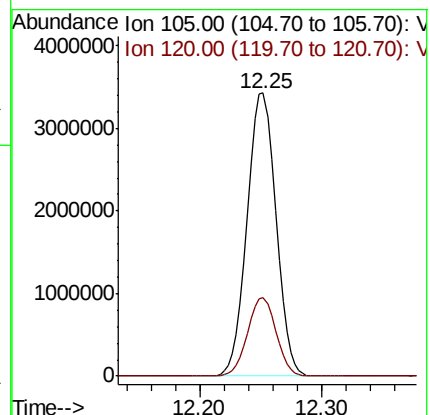
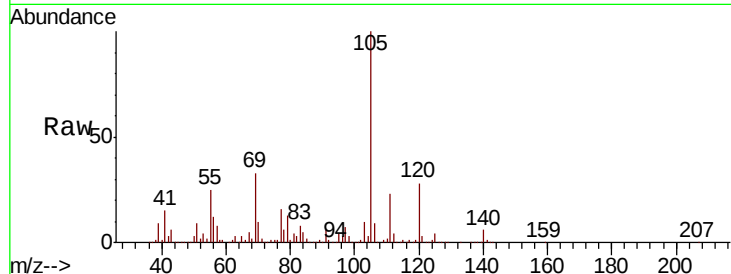
Tot Ion:105 Resp: 5582580

Ion Ratio Lower Upper

105 100

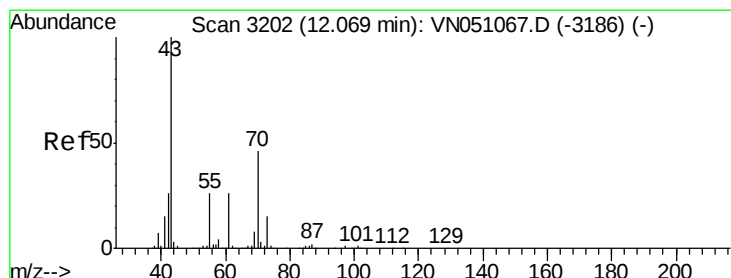
120 27.3 13.6 40.7

Manual Integrations
APPROVED



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9/11/2018 9:41:53 AM



#74

N-ethyl acetate

Concen: 359.15 ug/l

RT: 12.05 min Scan# 3195

Delta R.T. -0.02 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Tgt Ion: 43 Resp: 4473859

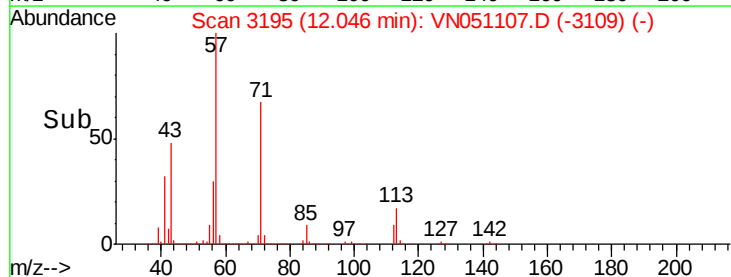
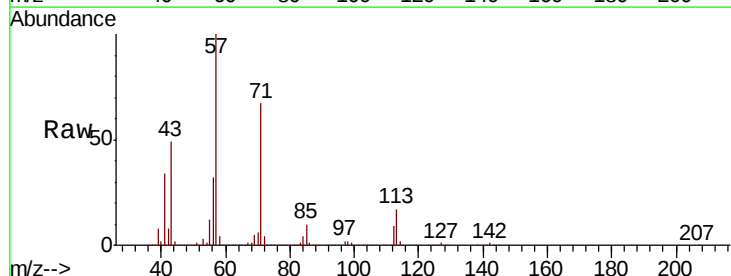
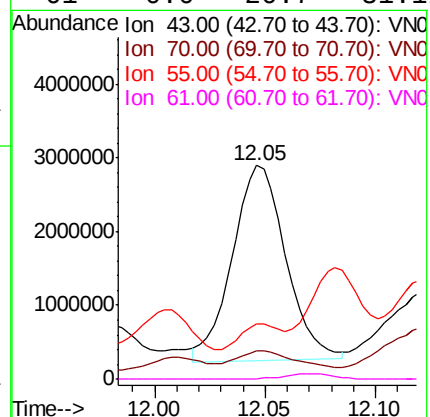
Ion Ratio Lower Upper

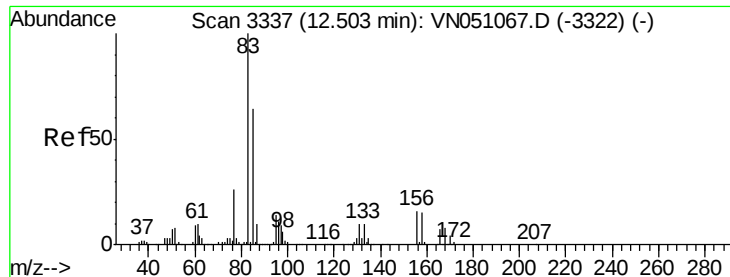
43 100

70 8.2 37.0 55.4#

55 9.4 21.3 31.9#

61 0.0 20.7 31.1#





#75

1,1,2,2-Tetrachloroethane

Concen: 91.09 ug/l

RT: 12.50 min Scan# 3337

Delta R.T. 0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

Tot Ion: 83 Resp: 1019573

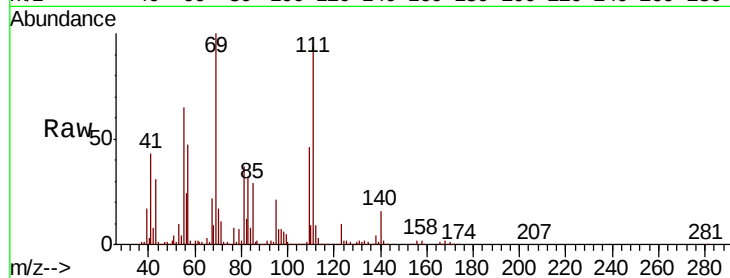
Ion Ratio Lower Upper

83 100

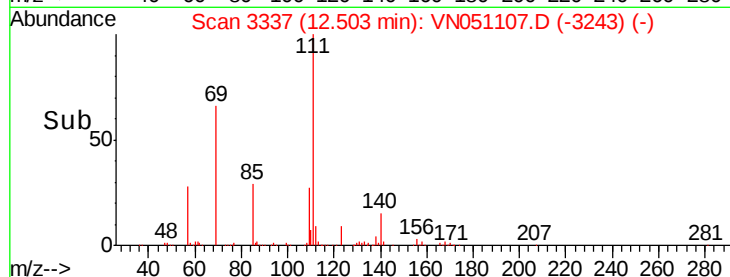
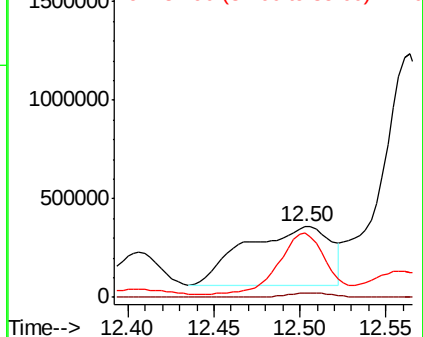
131 4.0 5.3 16.1#

85 58.6 32.3 96.8

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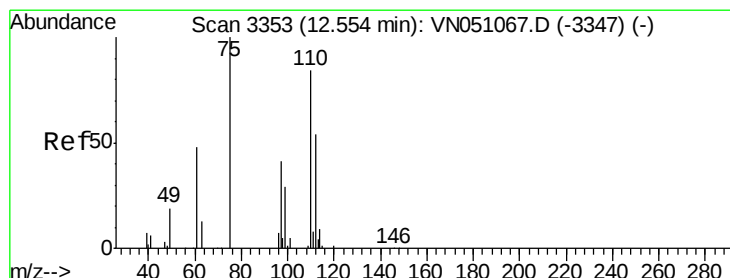


Abundance Ion 82.90 (82.60 to 83.60): VNC
Ion 130.80 (130.50 to 131.50): VNC
Ion 84.90 (84.60 to 85.60): VNC



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#76

1,2,3-Trichloropropane

Concen: 36.09 ug/l m

RT: 12.55 min Scan# 3353

Delta R.T. 0.00 min

Lab File: VN051107.D

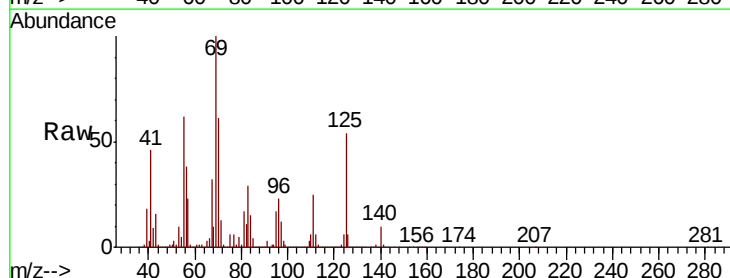
Acq: 11 Sep 2018 4:03

Tgt Ion: 75 Resp: 334074

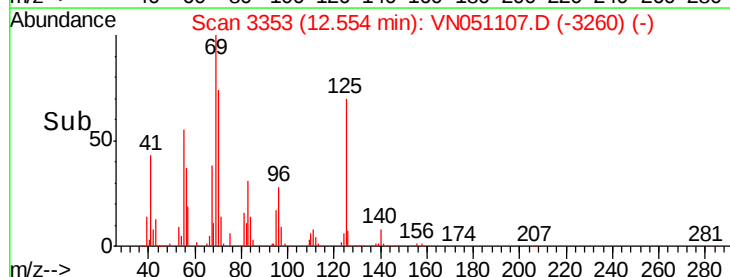
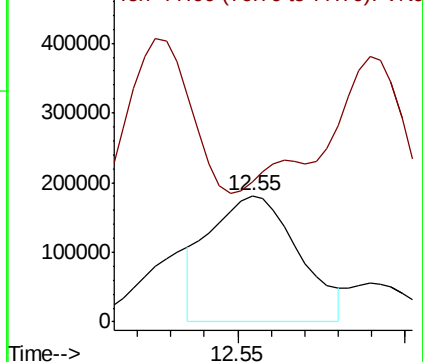
Ion Ratio Lower Upper

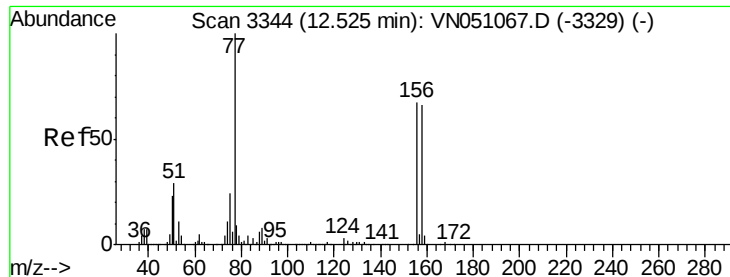
75 100

77 0.0 0.0 0.0



Abundance Ion 74.90 (74.60 to 75.60): VNC
Ion 77.00 (76.70 to 77.70): VNC





#77

Bromobenzene

Concen: 30.65 ug/l

RT: 12.53 min Scan# 3344

Delta R.T. -0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

Tot Ion:156 Resp: 407500

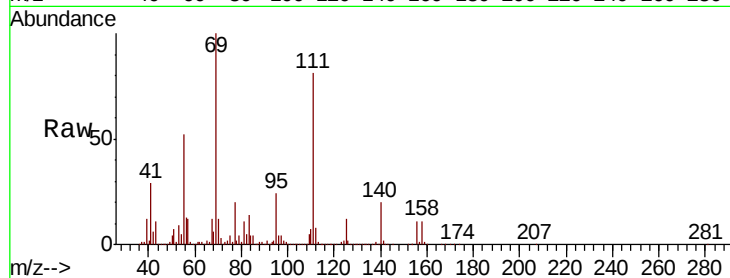
Ion Ratio Lower Upper

156 100

77 136.8 87.5 262.6

158 96.2 49.0 147.2

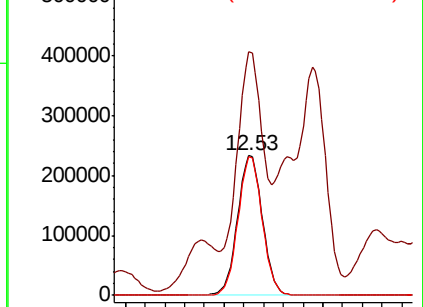
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Abundance Ion 155.80 (155.50 to 156.50): V

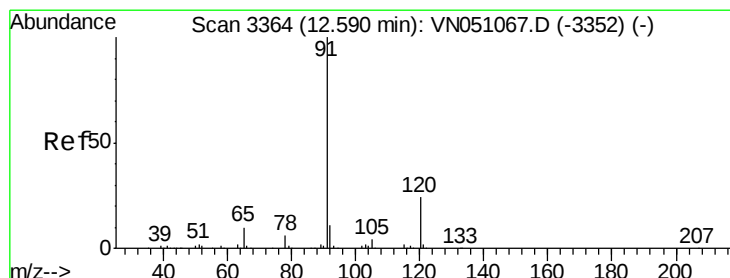
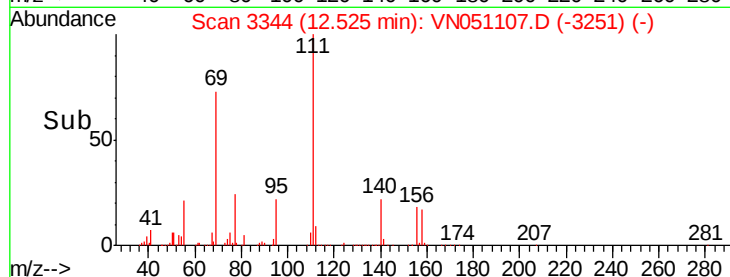
Ion 77.00 (76.70 to 77.70): VN

Ion 157.80 (157.50 to 158.50): V



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#78

n-propylbenzene

Concen: 275.86 ug/l

RT: 12.59 min Scan# 3364

Delta R.T. -0.00 min

Lab File: VN051107.D

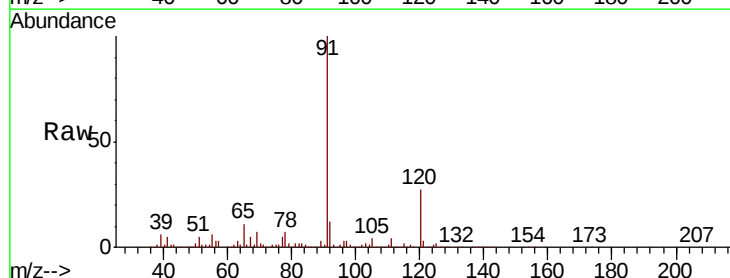
Acq: 11 Sep 2018 4:03

Tgt Ion: 91 Resp:15008894

Ion Ratio Lower Upper

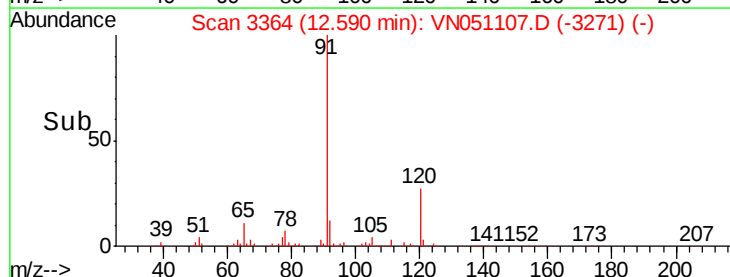
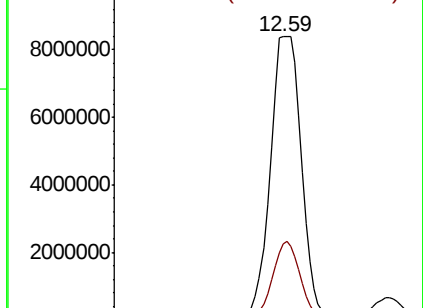
91 100

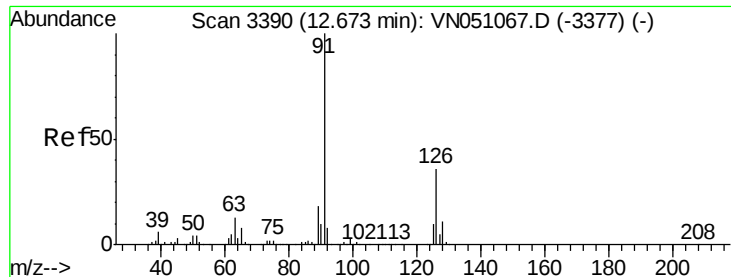
120 24.9 12.0 36.0



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#79

2-Chlorotoluene

Concen: 31.77 ug/l

RT: 12.68 min Scan# 3391

Delta R.T. 0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

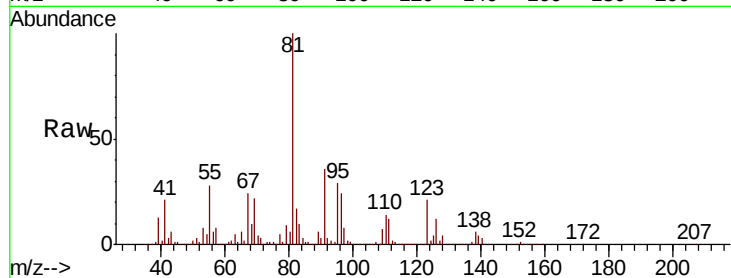
Tot Ion: 91 Resp: 1080367

Ion Ratio Lower Upper

91 100

126 35.2 17.9 53.7

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Abundance Ion 91.00 (90.70 to 91.70): VN051107.D (-3377) (-)

Ion 125.90 (125.60 to 126.60): VN051107.D (-3377) (-)

8000000

6000000

4000000

2000000

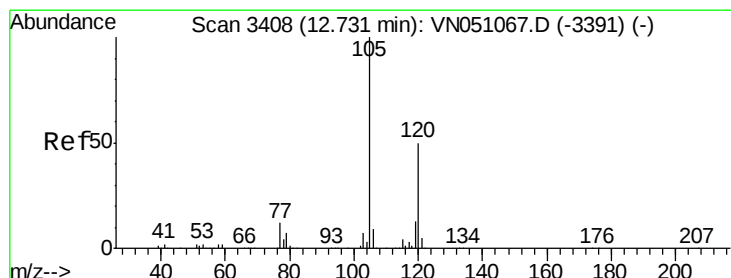
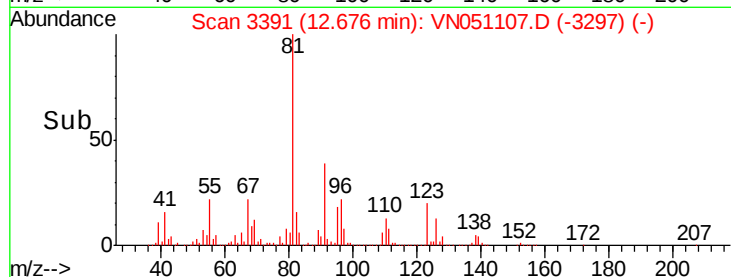
0

12.60 12.65 12.70

Time-->

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#80

1,3,5-Trimethylbenzene

Concen: 31.16 ug/l

RT: 12.73 min Scan# 3409

Delta R.T. 0.00 min

Lab File: VN051107.D

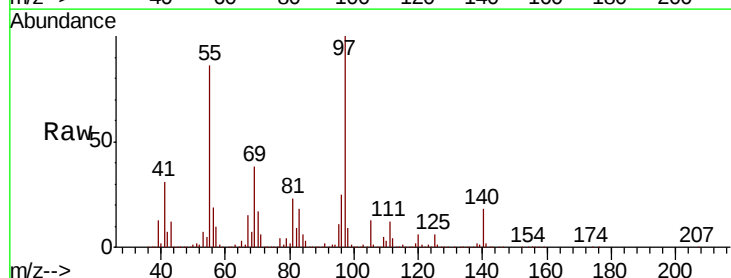
Acq: 11 Sep 2018 4:03

Tgt Ion: 105 Resp: 1246902

Ion Ratio Lower Upper

105 100

120 50.2 24.9 74.6



Abundance Ion 105.00 (104.70 to 105.70): VN051107.D (-3391) (-)

Ion 120.00 (119.70 to 120.70): VN051107.D (-3391) (-)

800000

600000

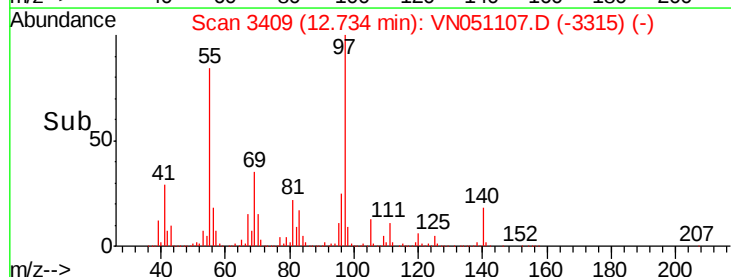
400000

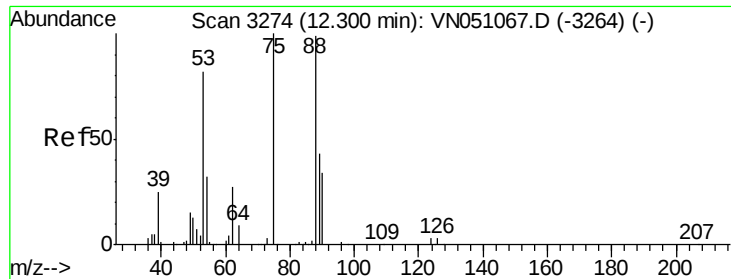
200000

0

12.65 12.70 12.75 12.80

Time-->



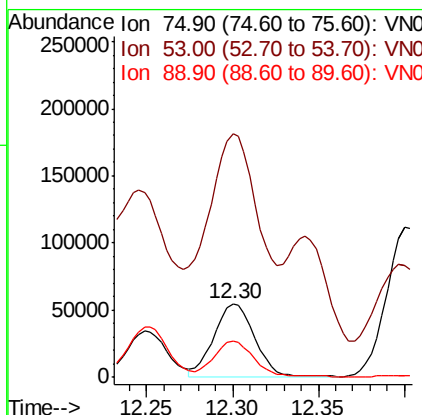
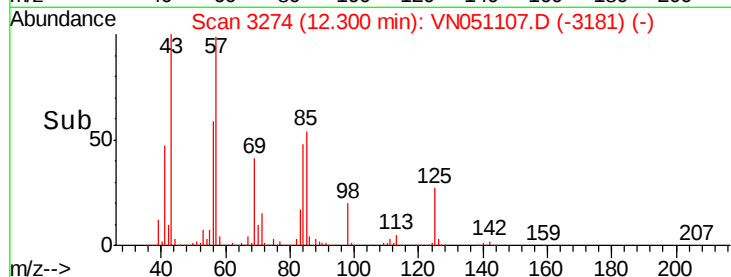
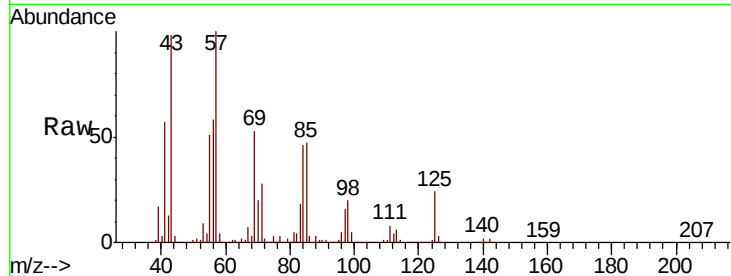


#81
trans-1,4-Dichloro-2-butene
Concen: 28.55 ug/l
RT: 12.30 min Scan# 3274
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

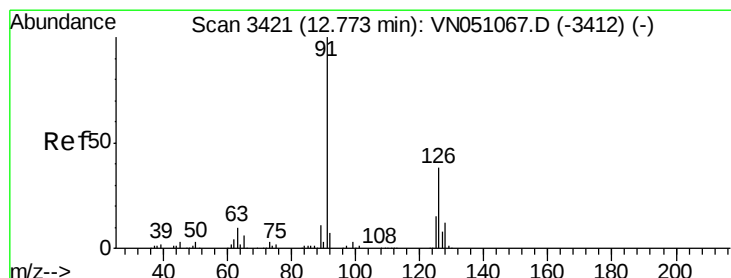
Tot Ion	Ratio	Lower	Upper
75	100		
53	171.2	67.8	101.8#
89	48.9	36.0	54.0

Manual Integrations
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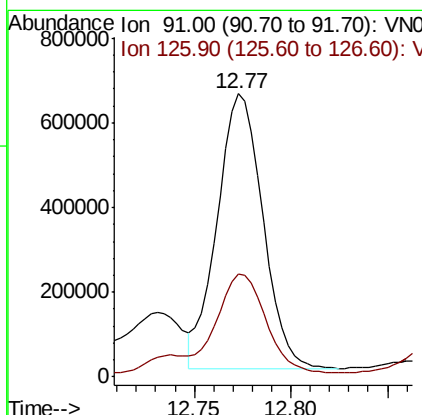
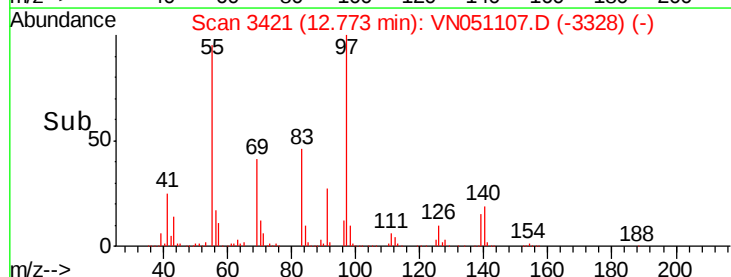
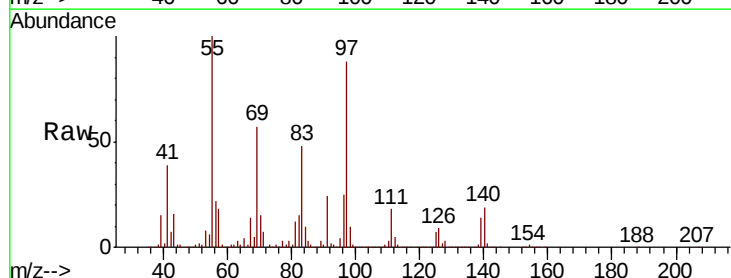
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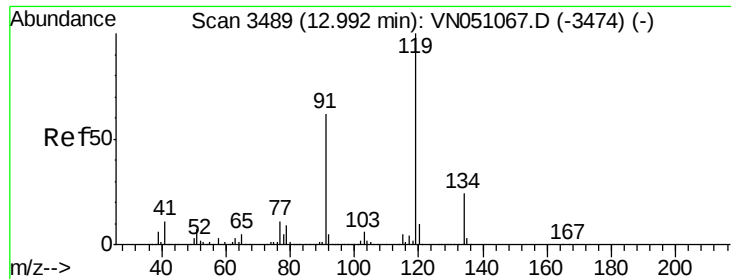
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#82
4-Chlorotoluene
Concen: 31.43 ug/l
RT: 12.77 min Scan# 3421
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Lower	Upper
91	100		
126	40.6	17.6	52.8



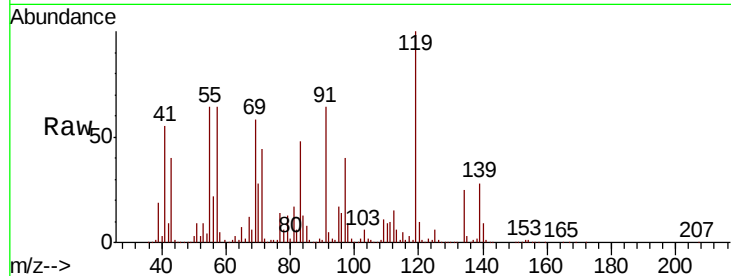


#83
tert-Butylbenzene
Concen: 53.72 ug/l
RT: 12.99 min Scan# 3490
Delta R.T. 0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

Tot Ion	Ratio	Lower	Upper
119	100		
91	65.9	30.8	92.3
134	25.4	13.2	39.6

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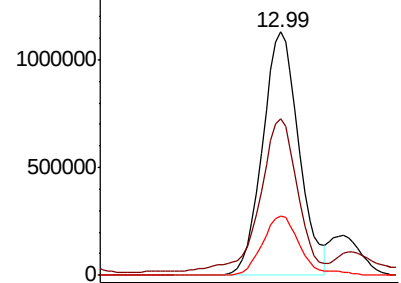


Abundance

Ion 119.00 (118.70 to 119.70): V

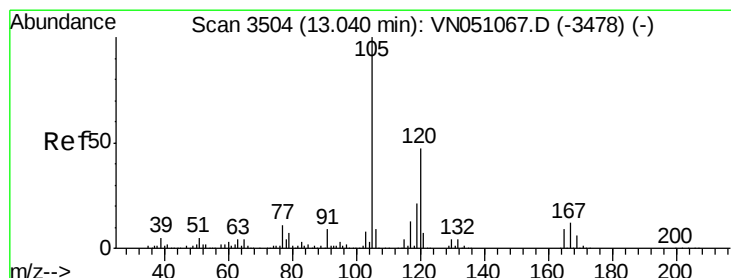
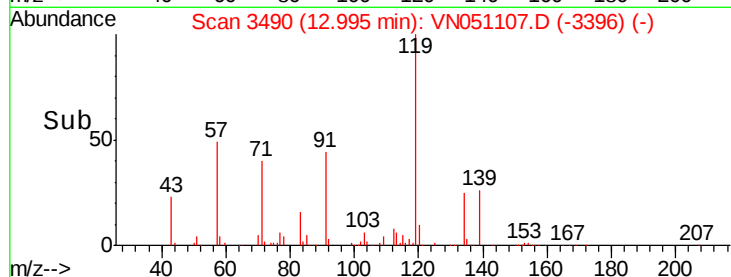
Ion 91.00 (90.70 to 91.70): V

Ion 134.00 (133.70 to 134.70): V



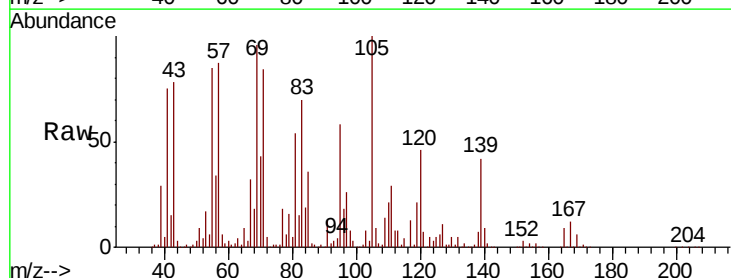
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#84
1,2,4-Trimethylbenzene
Concen: 32.60 ug/l
RT: 13.04 min Scan# 3504
Delta R.T. -0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

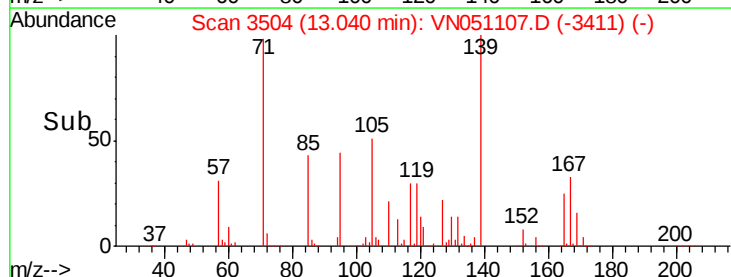
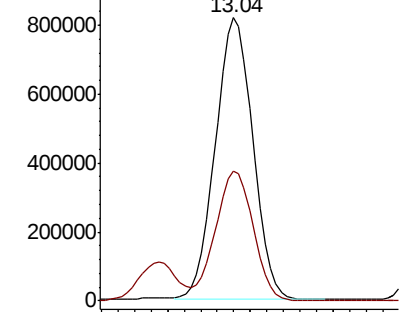
Tgt Ion	Ratio	Lower	Upper
105	100		
120	46.4	23.3	69.8

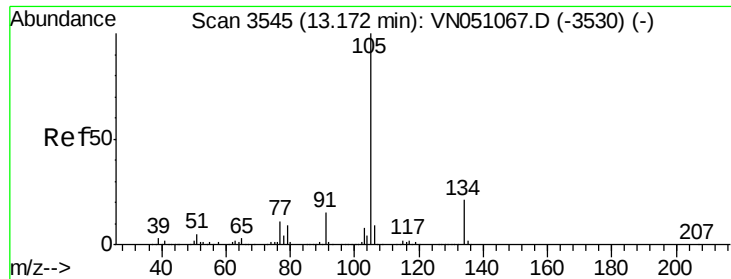


Abundance

Ion 105.00 (104.70 to 105.70): V

Ion 120.00 (119.70 to 120.70): V





#85

sec-Butylbenzene

Concen: 165.36 ug/l

RT: 13.17 min Scan# 3546

Delta R.T. 0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

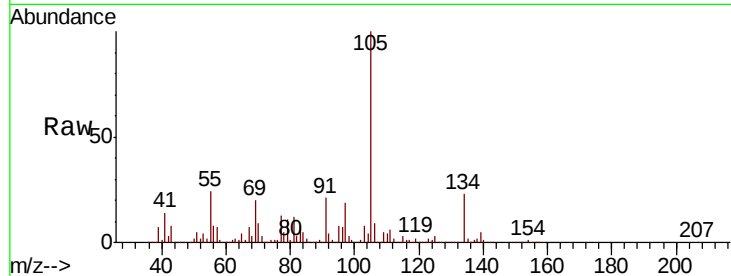
Tot Ion:105 Resp: 7492265

Ion Ratio Lower Upper

105 100

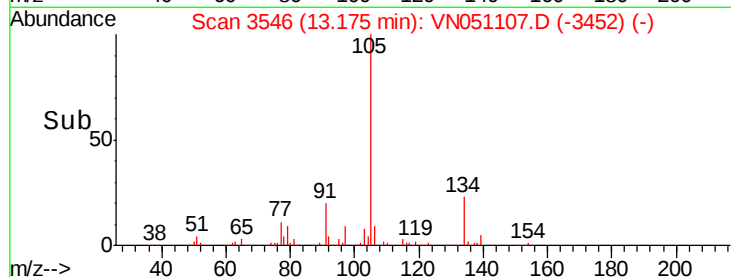
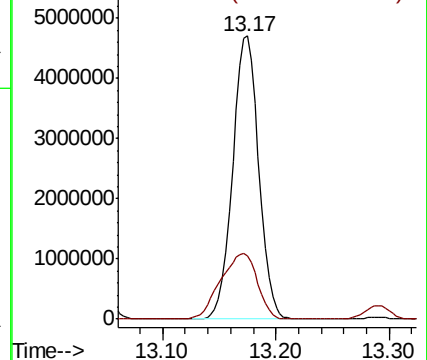
134 32.9 10.4 31.4#

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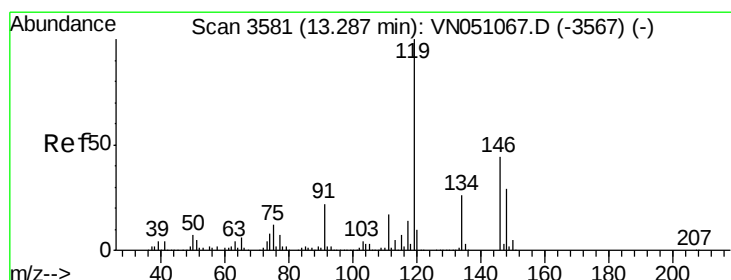
Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



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#86

p-Isopropyltoluene

Concen: 34.43 ug/l

RT: 13.29 min Scan# 3582

Delta R.T. 0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

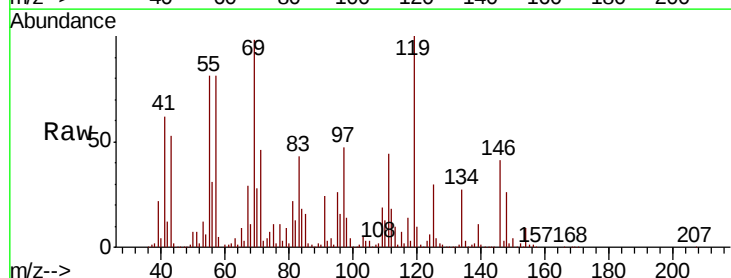
Tgt Ion:119 Resp: 1322564

Ion Ratio Lower Upper

119 100

134 26.6 13.5 40.4

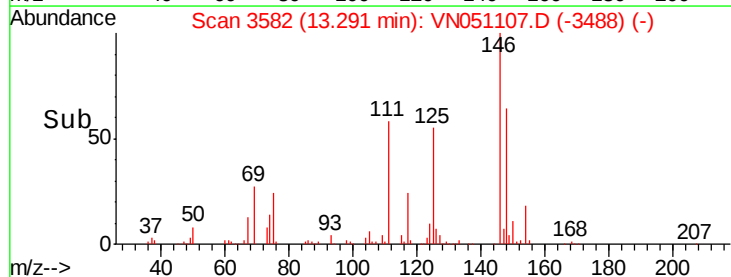
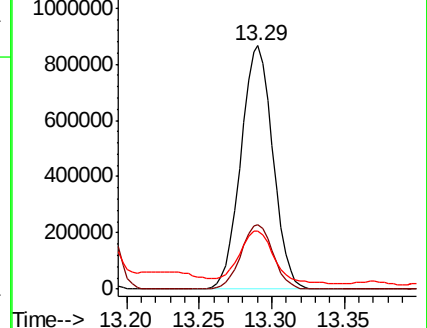
91 24.2 10.9 32.9

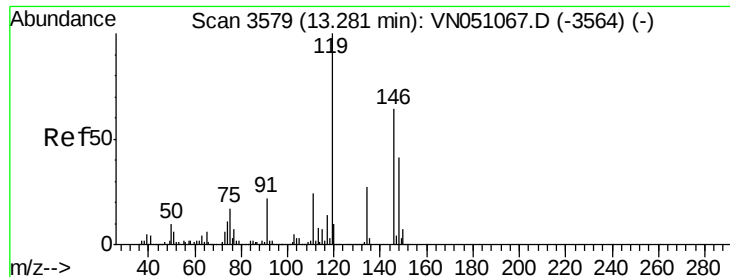


Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V





#87

1,3-Dichlorobenzene

Concen: 31.06 ug/l

RT: 13.28 min Scan# 3580

Delta R.T. 0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

Tot Ion:146 Resp: 700553

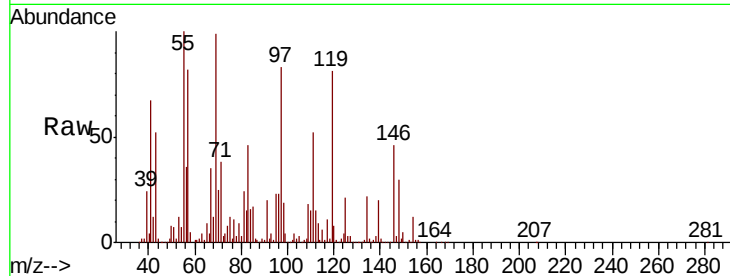
Ion Ratio Lower Upper

146 100

111 135.5 19.1 57.1#

148 64.2 32.2 96.6

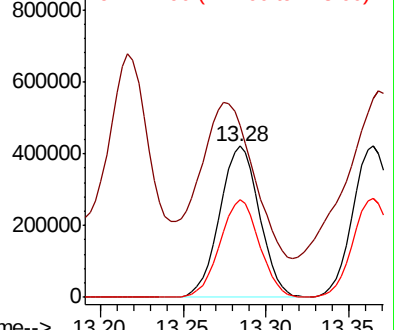
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Abundance Ion 145.90 (145.60 to 146.60): V

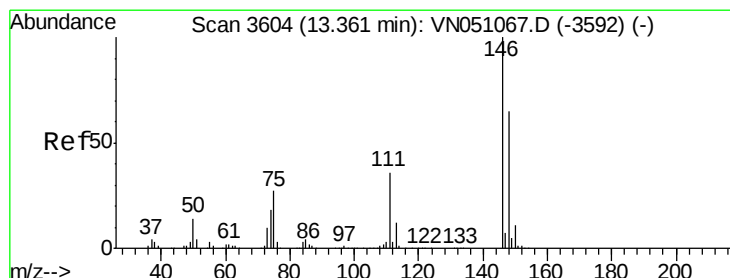
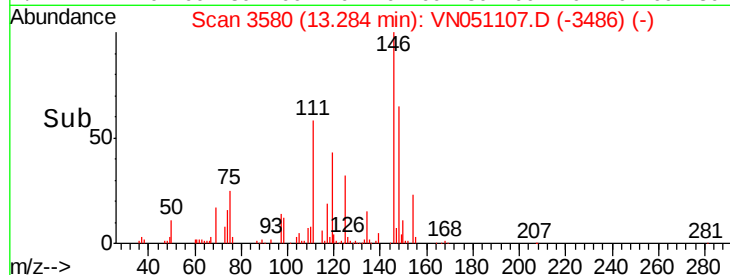
Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



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#88

1,4-Dichlorobenzene

Concen: 33.61 ug/l

RT: 13.36 min Scan# 3605

Delta R.T. 0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

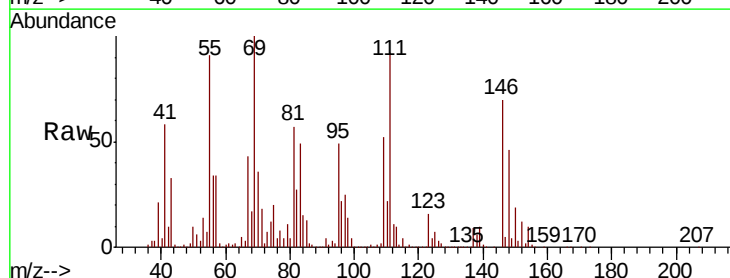
Tgt Ion:146 Resp: 695898

Ion Ratio Lower Upper

146 100

111 141.5 18.4 55.0#

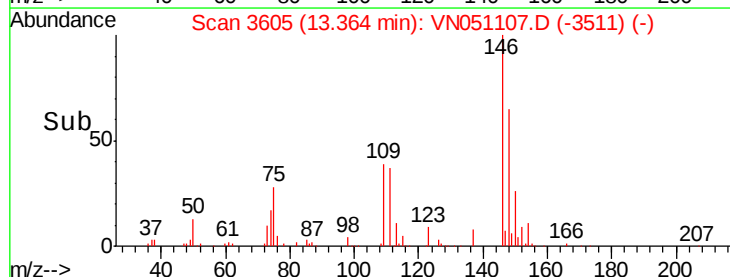
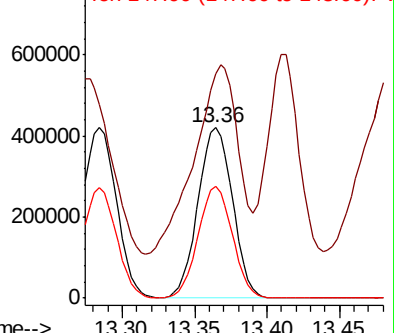
148 64.9 32.2 96.6

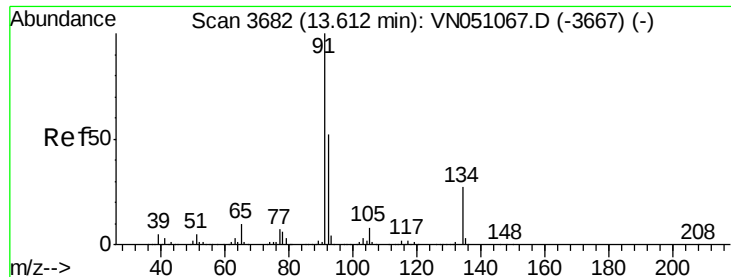


Abundance Ion 145.90 (145.60 to 146.60): V

Ion 110.90 (110.60 to 111.60): V

Ion 147.90 (147.60 to 148.60): V



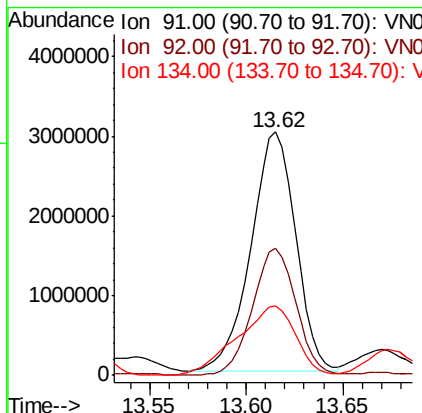
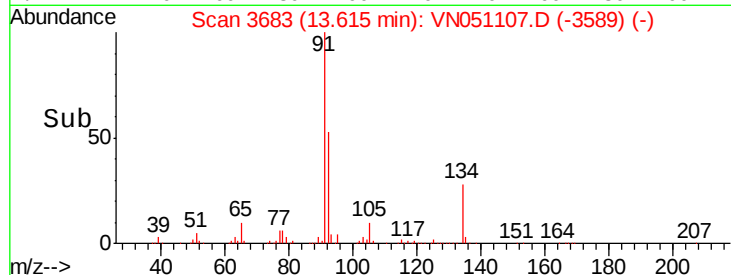
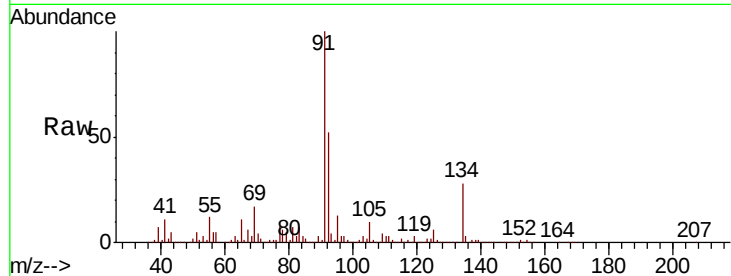


#89
n-Butylbenzene
Concen: 163.19 ug/l
RT: 13.62 min Scan# 3683
Delta R.T. 0.00 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Instrument :
MSVOA_N
ClientSampleId :
EP1-MW-C(15-20)MS

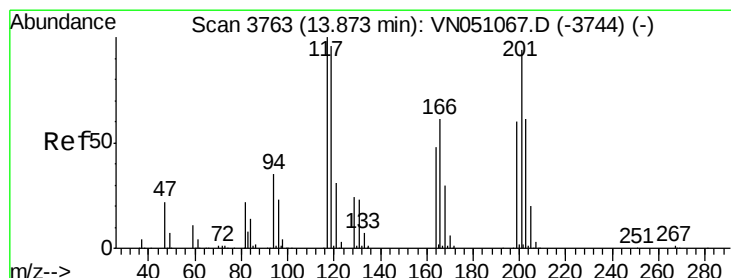
Tot Ion: 91 Resp: 4879409
Ion Ratio Lower Upper
91 100
92 50.7 26.2 78.6
134 37.7 13.7 41.1

Manual Integrations
APPROVED



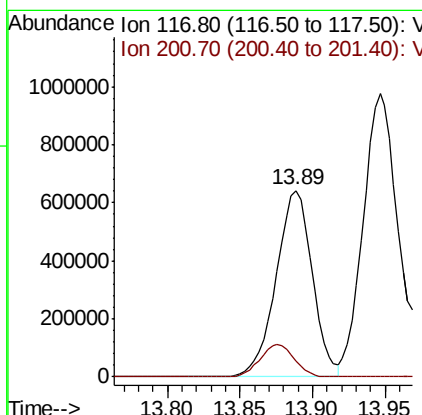
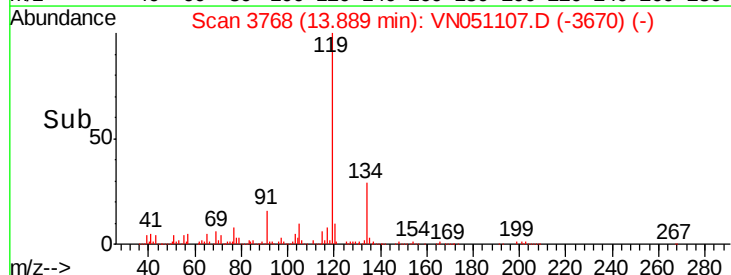
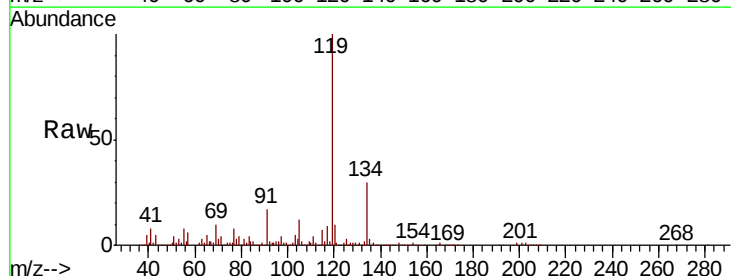
MMDadoda

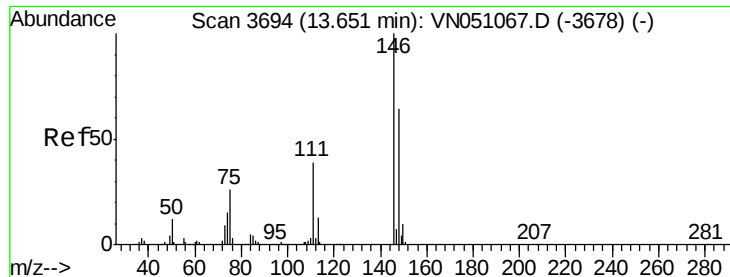
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#90
Hexachloroethane
Concen: 160.06 ug/l
RT: 13.89 min Scan# 3768
Delta R.T. 0.02 min
Lab File: VN051107.D
Acq: 11 Sep 2018 4:03

Tgt Ion: 117 Resp: 1110041
Ion Ratio Lower Upper
117 100
201 16.8 47.3 142.0#





#91

1,2-Dichlorobenzene

Concen: 31.22 ug/l

RT: 13.65 min Scan# 3695

Delta R.T. 0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

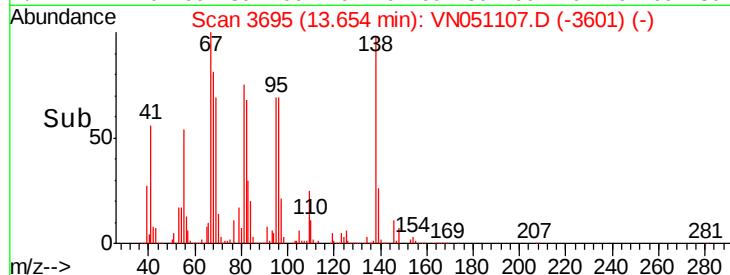
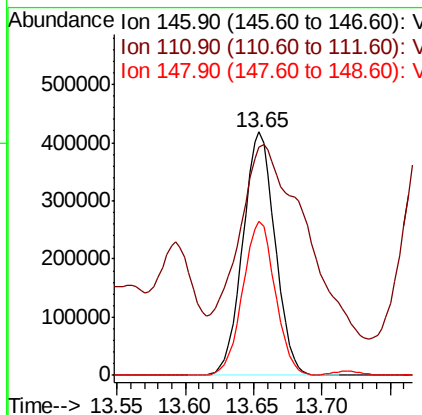
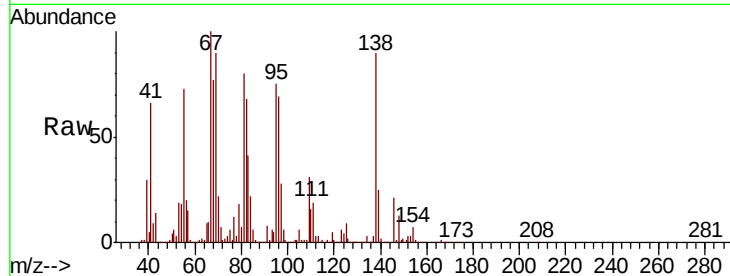
MSVOA_N

ClientSampleId :

EP1-MW-C(15-20)MS

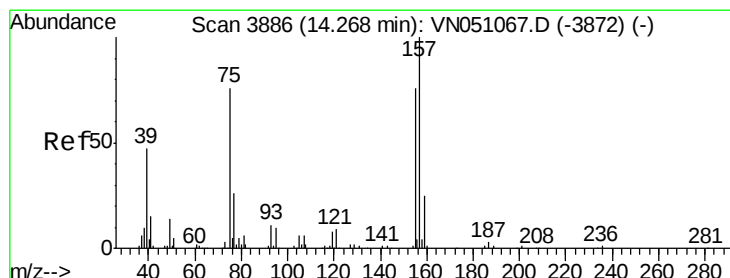
Tot Ion	Ratio	Lower	Upper
146	100		
111	160.8	19.7	59.0#
148	63.9	32.1	96.3

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#92

1,2-Dibromo-3-Chloropropane

Concen: 34.35 ug/l

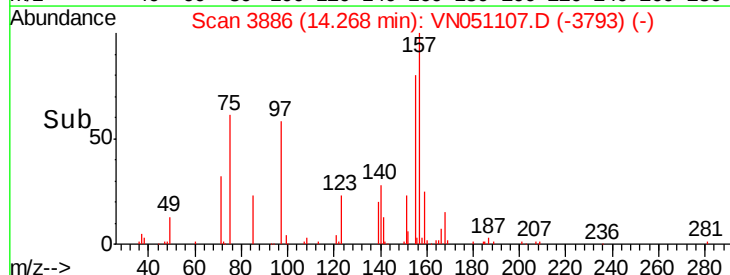
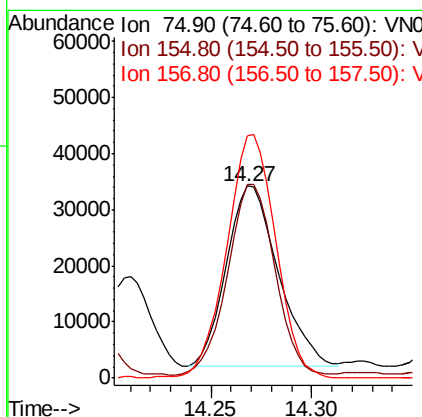
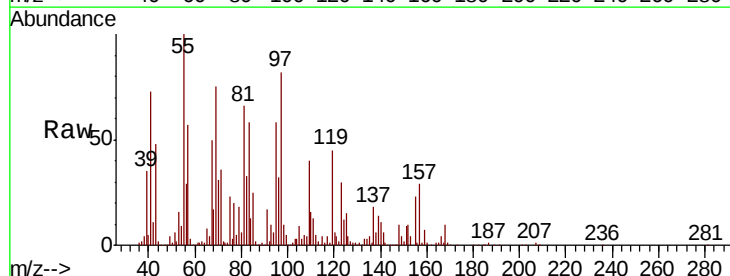
RT: 14.27 min Scan# 3886

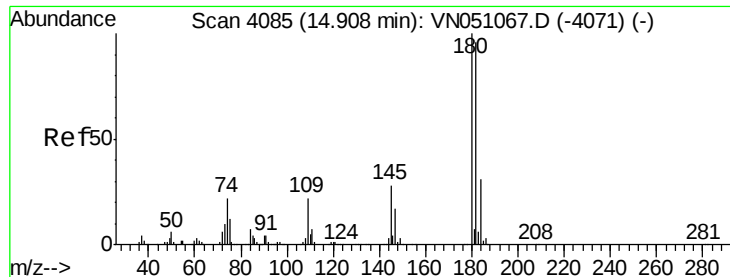
Delta R.T. -0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Lower	Upper
75	100		
155	96.4	48.7	146.1
157	128.1	63.6	190.9



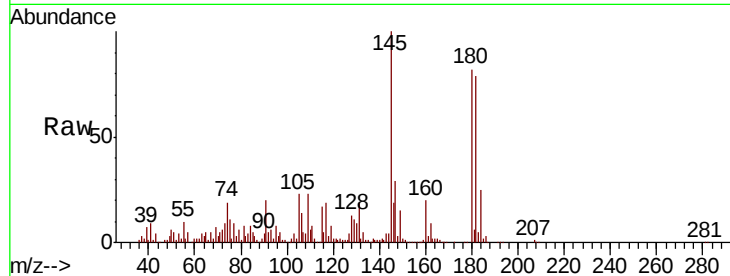


#93
 1,2,4-Trichlorobenzene
 Concen: 40.19 ug/l
 RT: 14.91 min Scan# 4085
 Delta R.T. -0.00 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Instrument :
 MSVOA_N
 ClientSampleId :
 EP1-MW-C(15-20)MS

Tot Ion	Ratio	Lower	Upper
180	100		
182	96.7	47.3	141.8
145	154.2	14.2	42.6#

Manual Integrations
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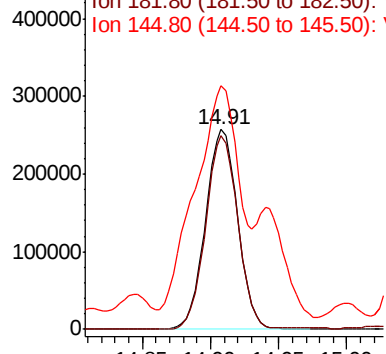


Abundance

Ion 179.80 (179.50 to 180.50): V

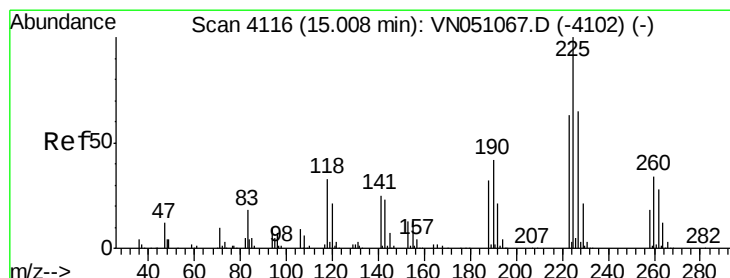
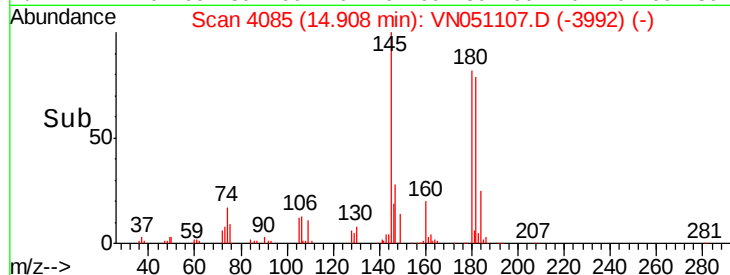
Ion 181.80 (181.50 to 182.50): V

Ion 144.80 (144.50 to 145.50): V



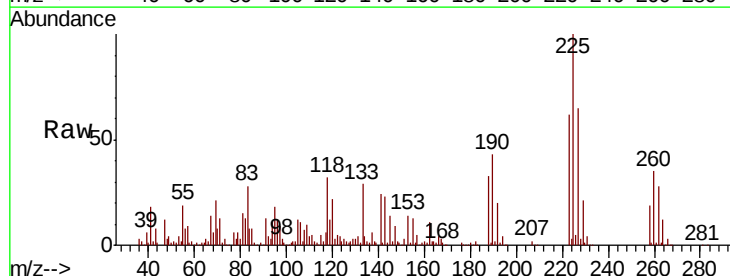
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#94
 Hexachlorobutadiene
 Concen: 39.93 ug/l
 RT: 15.01 min Scan# 4117
 Delta R.T. 0.00 min
 Lab File: VN051107.D
 Acq: 11 Sep 2018 4:03

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.0	31.4	94.0
227	65.4	32.1	96.3

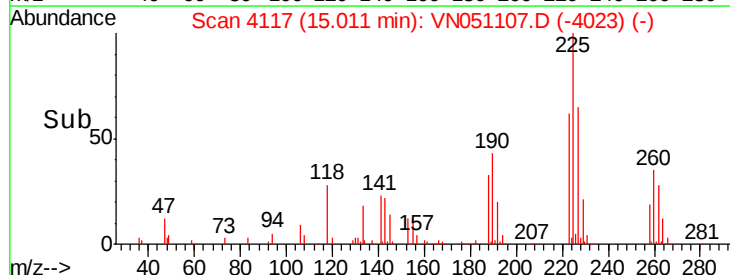
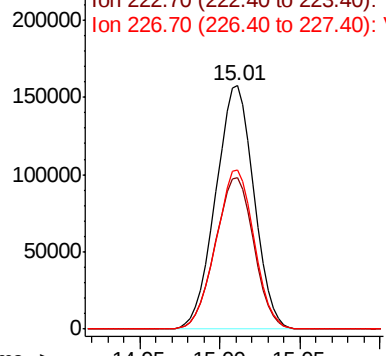


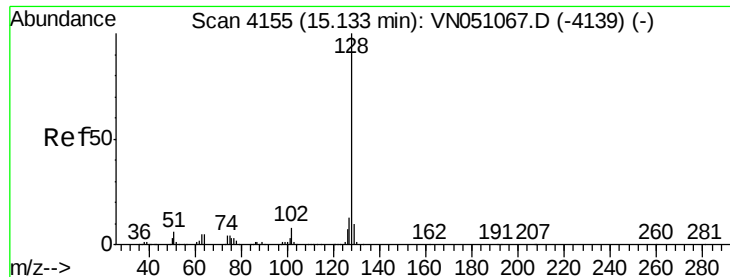
Abundance

Ion 224.70 (224.40 to 225.40): V

Ion 222.70 (222.40 to 223.40): V

Ion 226.70 (226.40 to 227.40): V





#95

Naphthalene

Concen: 42.71 ug/l

RT: 15.13 min Scan# 4154

Delta R.T. -0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Instrument :

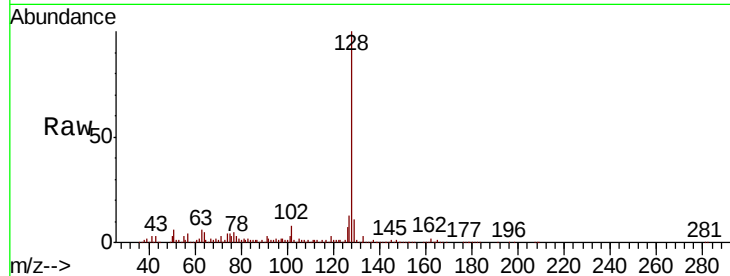
MSVOA_N

ClientSampleId :

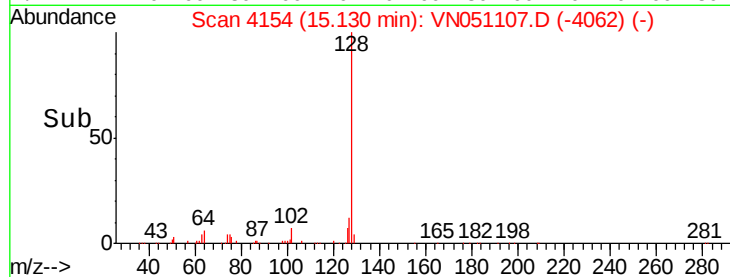
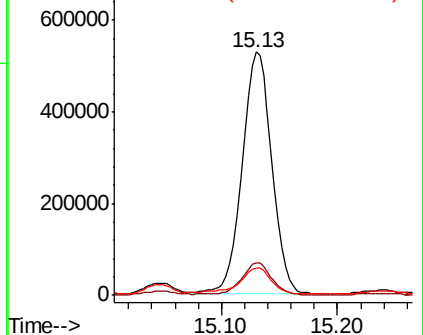
EP1-MW-C(15-20)MS

Tot Ion:	128	Resp:	928480
Ion Ratio	Lower	Upper	
128	100		
127	13.2	10.6	15.8
129	11.2	8.6	12.8

Manual Integrations
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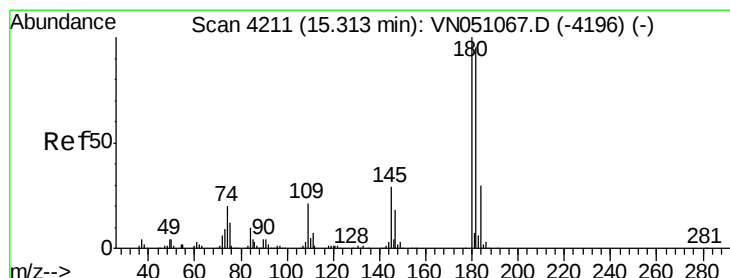


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 127.00 (126.70 to 127.70): V
Ion 129.00 (128.70 to 129.70): V



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#96

1,2,3-Trichlorobenzene

Concen: 39.82 ug/l

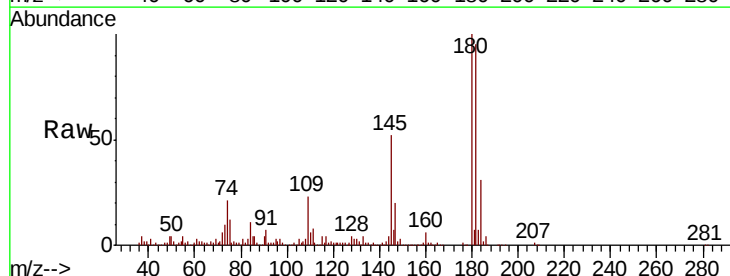
RT: 15.31 min Scan# 4211

Delta R.T. -0.00 min

Lab File: VN051107.D

Acq: 11 Sep 2018 4:03

Tgt Ion:	180	Resp:	397546
Ion Ratio	Lower	Upper	
180	100		
182	94.9	47.8	143.3
145	74.5	14.6	43.8#



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

