

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
 Data File : VN051007.D
 Acq On : 4 Sep 2018 10:02
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 6 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 9/5/2018 12:00:12 PM

Quant Time: Sep 04 10:56:33 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N082818W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Aug 29 01:38:44 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	109588	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	581636	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	494935	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	206276	29.50	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	98.33%
60) 4-Bromofluorobenzene	12.40	95	209083	28.41	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	94.70%
63) Toluene-d8	10.09	98	719200	31.16	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	103.87%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	115174	16.92	ug/l	98
3) Chloromethane	2.06	50	128413	15.98	ug/l	98
4) Vinyl Chloride	2.18	62	132306	16.66	ug/l	97
5) Bromomethane	2.57	94	75859	15.67	ug/l	100
6) Chloroethane	2.70	64	77642	16.58	ug/l	93
7) Trichlorofluoromethane	3.02	101	181218	17.22	ug/l	99
8) Diethyl Ether	3.41	74	60762	16.37	ug/l	97
9) 1,1,2-Trichlorotrifluoroet	3.76	101	113221	17.37	ug/l	98
10) 1,1-Dichloroethene	3.74	96	98821	16.69	ug/l	99
11) Methyl Iodide	3.95	142	69657	12.61	ug/l	99
12) Methyl Acetate	4.33	43	116581	17.03	ug/l	95
13) Acrolein	3.61	56	6146	40.54	ug/l	97
14) Acrylonitrile	4.99	53	169621	73.27	ug/l	98
15) Acetone	3.82	58	47824	80.73	ug/l	96
16) Carbon Disulfide	4.05	76	288316	16.19	ug/l	99
17) Allyl chloride	4.33	41	154685	16.60	ug/l	97
18) Methylene Chloride	4.56	84	118162	17.00	ug/l	98
19) trans-1,2-Dichloroethene	5.04	96	106895	16.94	ug/l	98
20) Diisopropyl ether	5.96	45	330753	17.10	ug/l	98
21) 1,1-Dichloroethane	5.85	63	204498	17.25	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	119375	16.75	ug/l	97
23) tert-Butyl Alcohol	4.79	59	31836	64.66	ug/l #	100
24) Methyl tert-Butyl Ether	5.05	73	261521	16.15	ug/l	99
25) Chloroform	7.37	83	204427	17.27	ug/l	98
26) Cyclohexane	7.66	56	158630	16.15	ug/l	99
29) 1,1-Dichloropropene	7.79	75	149774	17.20	ug/l	97
30) 2-Butanone	6.84	43	190102	70.97	ug/l	99
31) 2,2-Dichloropropane	6.83	77	165281	19.51	ug/l	97
32) 1,1,1-Trichloroethane	7.57	97	172533	17.47	ug/l	99
33) Carbon Tetrachloride	7.78	117	153071	17.21	ug/l	96
34) Benzene	8.04	78	466232	17.31	ug/l	100
35) Methacrylonitrile	7.17	41	37243	12.69	ug/l	95
36) 1,2-Dichloroethane	8.13	62	140769	17.28	ug/l	99
37) Trichloroethene	8.84	130	122459	17.39	ug/l	99
38) Methylcyclohexane	9.08	83	151894	16.24	ug/l	99
39) 1,2-Dichloropropane	9.12	63	123049	17.49	ug/l	98
40) Dibromomethane	9.21	93	69795	16.47	ug/l	98

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Manual Integrations
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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	151049	16.91	ug/l	99
42) Vinyl Acetate	5.90	43	936567	75.91	ug/l	100
43) Ethyl Acetate	6.93	43	77172	14.06	ug/l	96
44) Isopropyl Acetate	8.17	43	148062	15.29	ug/l	97
45) 1,4-Dioxane	9.20	88	20151	280.14	ug/l	99
46) Methyl methacrylate	9.20	41	69745	14.38	ug/l	99
47) n-amyl Acetate	12.07	43	94571	12.15	ug/l	100
48) t-1,3-Dichloropropene	10.38	75	140413	16.03	ug/l	98
49) cis-1,3-Dichloropropene	9.84	75	170894	16.99	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	101398	16.47	ug/l	98
51) Ethyl methacrylate	10.43	69	106745	14.17	ug/l	100
52) 1,3-Dichloropropane	10.71	76	167135	16.39	ug/l	99
53) Dibromochloromethane	10.90	129	112144	16.02	ug/l	99
54) 1,2-Dibromoethane	11.01	107	94159	15.46	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	258203	82.37	ug/l	100
56) Bromoform	12.13	173	73400	14.74	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	411211	72.62	ug/l	99
59) 2-Hexanone	10.75	43	254944	68.88	ug/l	99
61) Tetrachloroethene	10.63	164	109591	17.77	ug/l	96
62) Toluene	10.16	91	482808	17.49	ug/l	100
64) Chlorobenzene	11.44	112	289168	16.90	ug/l	98
65) 1,1,1,2-Tetrachloroethane	11.51	131	117582	18.20	ug/l	99
66) Ethyl Benzene	11.51	91	468206	16.37	ug/l	99
67) m/p-Xylenes	11.62	106	370273	33.65	ug/l	98
68) o-Xylene	11.95	106	177975	16.93	ug/l	98
69) Styrene	11.96	104	261078	15.62	ug/l	98
70) Isopropylbenzene	12.25	105	463560	16.59	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	118462	15.66	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	88215m	13.52	ug/l	
73) Bromobenzene	12.53	156	117988	16.05	ug/l	98
74) n-propylbenzene	12.59	91	498313	15.77	ug/l	99
75) 2-Chlorotoluene	12.68	91	317138	16.53	ug/l	99
76) 1,3,5-Trimethylbenzene	12.73	105	378142	16.56	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	25354	13.64	ug/l	98
78) 4-Chlorotoluene	12.77	91	300686	15.91	ug/l	100
79) tert-butylbenzene	12.99	119	324611	16.37	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	372505	16.36	ug/l	100
81) sec-Butylbenzene	13.17	105	422690	16.29	ug/l	100
82) p-Isopropyltoluene	13.29	119	357808	15.98	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	187936	15.12	ug/l	97
84) 1,4-Dichlorobenzene	13.36	146	175606	14.91	ug/l	98
85) n-Butylbenzene	13.62	91	248970	14.57	ug/l	100
86) Hexachloroethane	13.87	117	67765	15.76	ug/l	96
87) 1,2-Dichlorobenzene	13.65	146	188943	15.44	ug/l	98
88) 1,2-Dibromo-3-Chloropropan	14.27	75	14590	13.79	ug/l	97
89) 1,2,4-Trichlorobenzene	14.91	180	65563	12.04	ug/l	98
90) Hexachlorobutadiene	15.01	225	67084	18.13	ug/l	99
91) Naphthalene	15.13	128	118550	15.54	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	71292	13.05	ug/l	99

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Manual Integrations
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QLast Update : Wed Aug 29 01:38:44 2018
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed

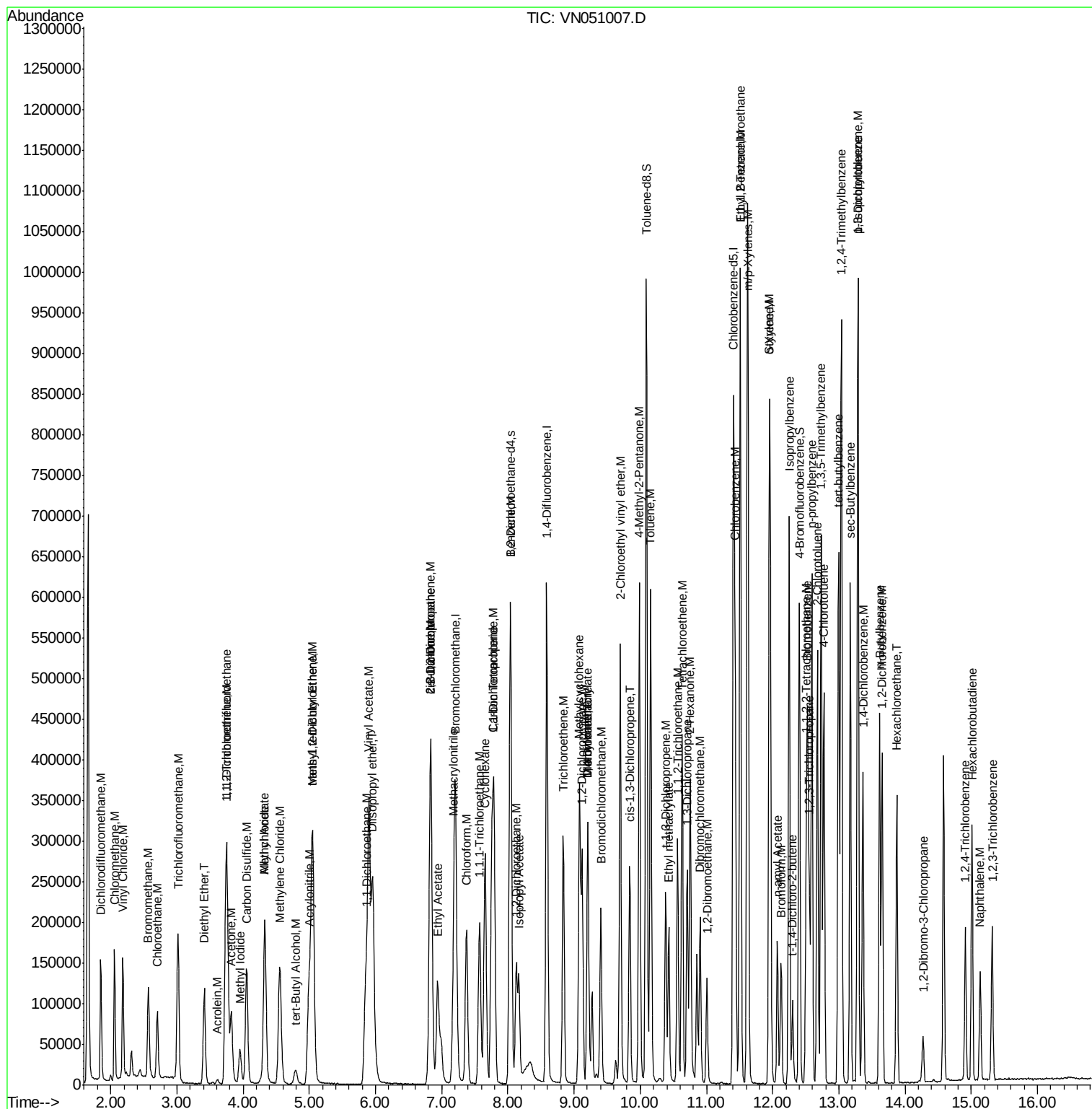
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN090418\
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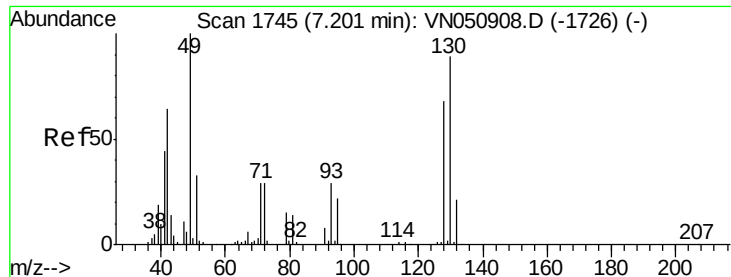
Instrument :
MSVOA_N
Client Sample Id :
VSTDCCC020

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:12 PM

Quant Time: Sep 04 10:56:33 2018
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#1

Bromochloromethane

Concen: 30.00 ug/l

RT: 7.20 min Scan# 1745

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

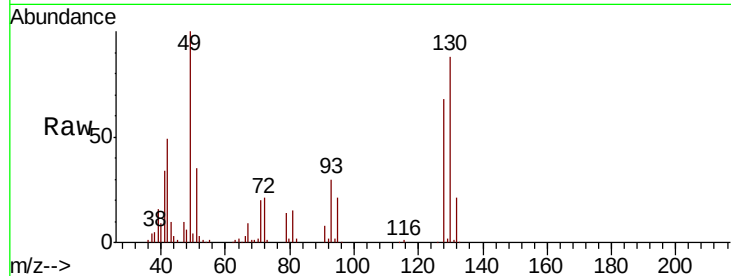
ClientSampleId :

VSTDCCC020

Tot Ion:	128	Resp:	109588
Ion	Ratio	Lower	Upper
128	100		
49	148.1	0.0	380.3
130	127.8	0.0	325.3

Manual Integrations
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MMDadoda
9/5/2018 12:00:12 PM

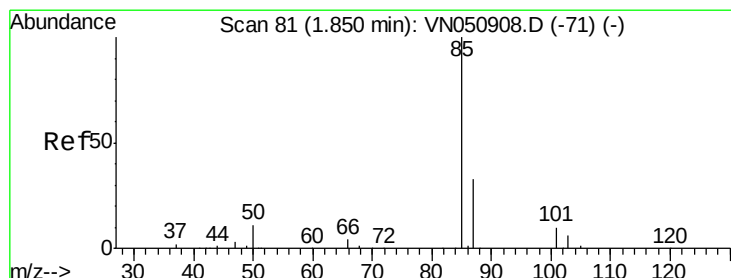
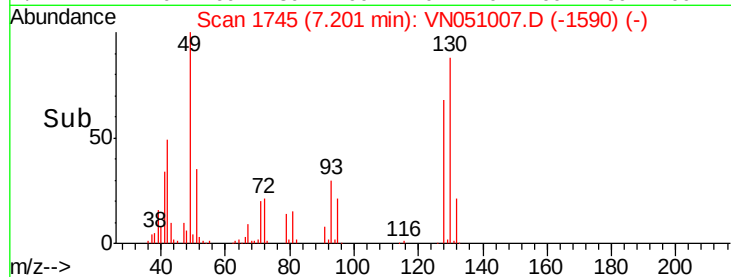
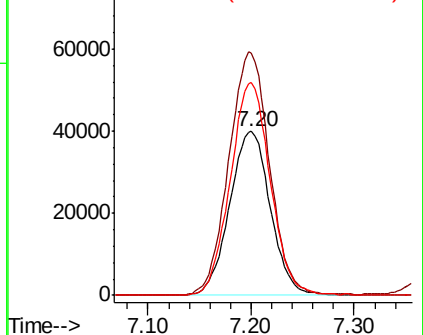


Abundance

Ion 128.00 (127.70 to 128.70): V

Ion 49.00 (48.70 to 49.70): VN

Ion 130.00 (129.70 to 130.70): V



#2

Dichlorodifluoromethane

Concen: 16.92 ug/l

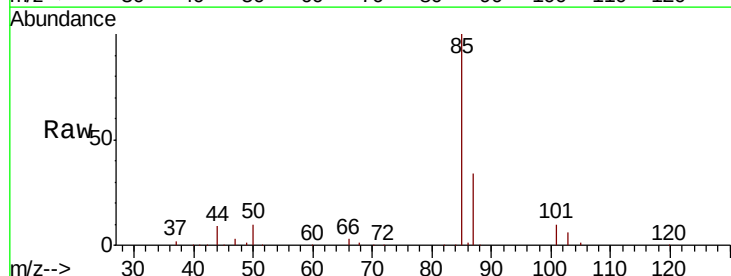
RT: 1.85 min Scan# 81

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

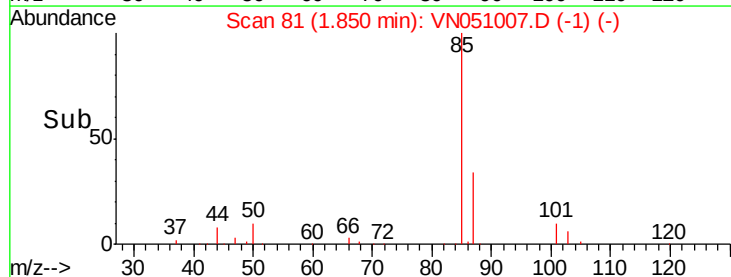
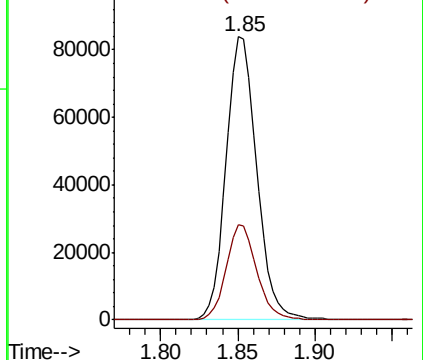
Tgt Ion:	85	Resp:	115174
Ion	Ratio	Lower	Upper
85	100		
87	33.7	16.4	49.1

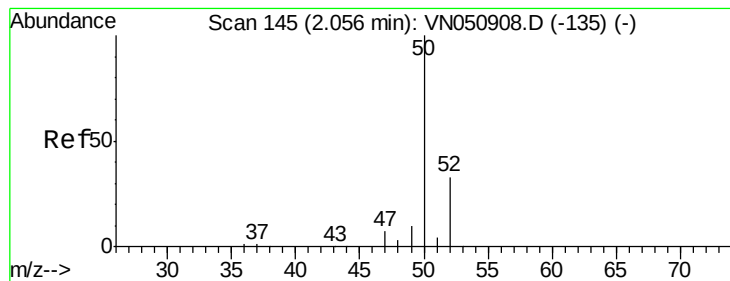


Abundance

Ion 85.00 (84.70 to 85.70): VN

Ion 87.00 (86.70 to 87.70): VN





#3

Chloromethane

Concen: 15.98 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion: 50 Resp: 128413

Ion Ratio Lower Upper

50 100

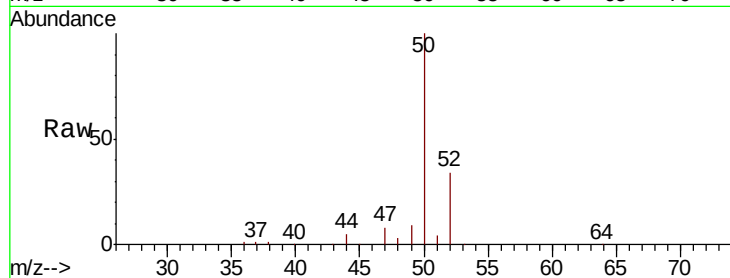
52 33.9 26.2 39.4

Manual Integrations

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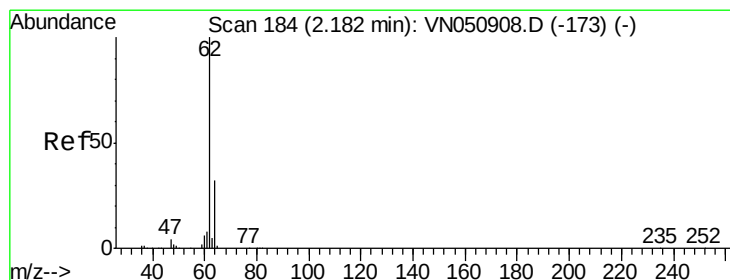
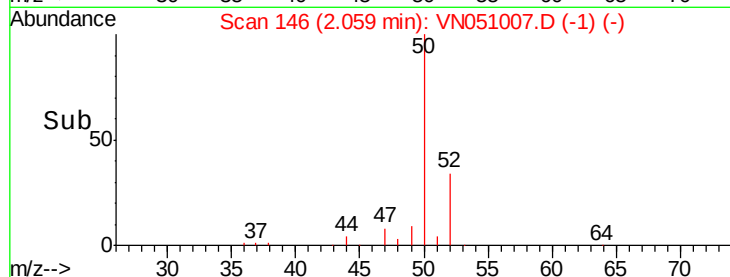
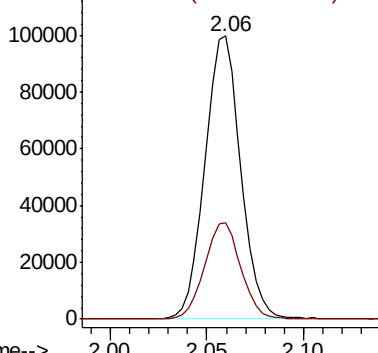
MMDadoda

9/5/2018 12:00:12 PM



Abundance Ion 50.00 (49.70 to 50.70): VNO

Ion 52.00 (51.70 to 52.70): VNO



#4

Vinyl Chloride

Concen: 16.66 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.00 min

Lab File: VN051007.D

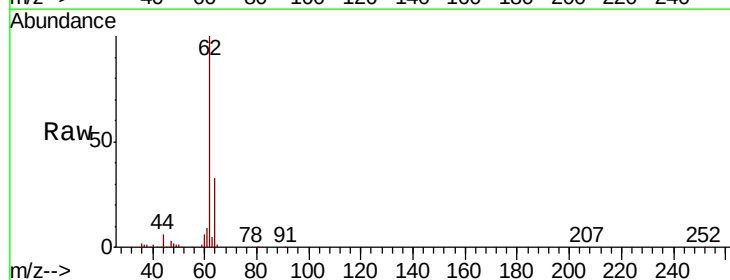
Acq: 4 Sep 2018 10:02

Tgt Ion: 62 Resp: 132306

Ion Ratio Lower Upper

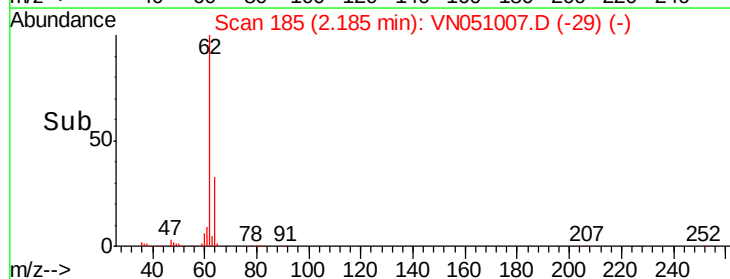
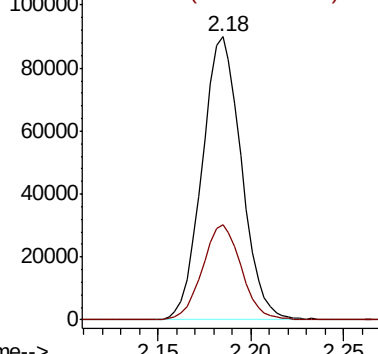
62 100

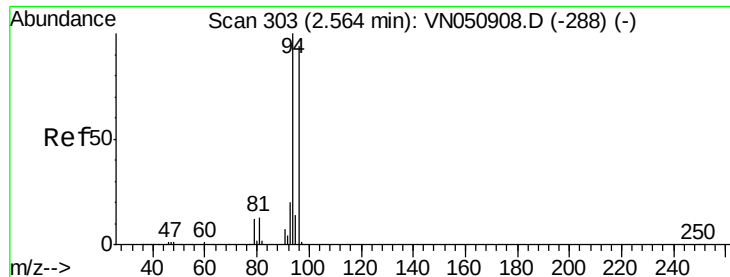
64 33.5 25.4 38.0



Abundance Ion 62.00 (61.70 to 62.70): VNO

Ion 64.00 (63.70 to 64.70): VNO





#5

Bromomethane

Concen: 15.67 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion: 94 Resp: 75859

Ion Ratio Lower Upper

94 100

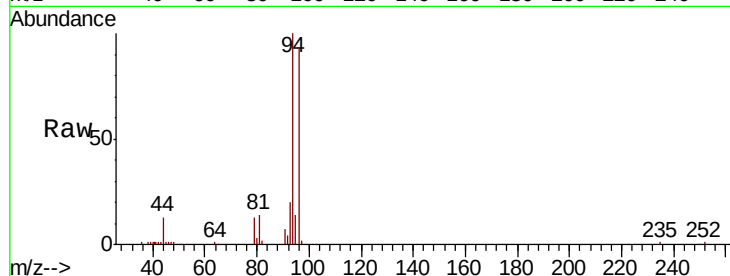
96 93.2 74.9 112.3

Manual Integrations

APPROVED

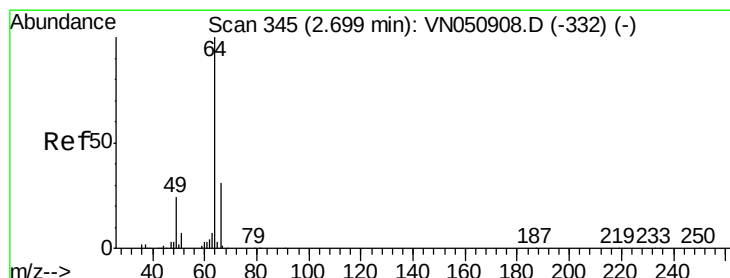
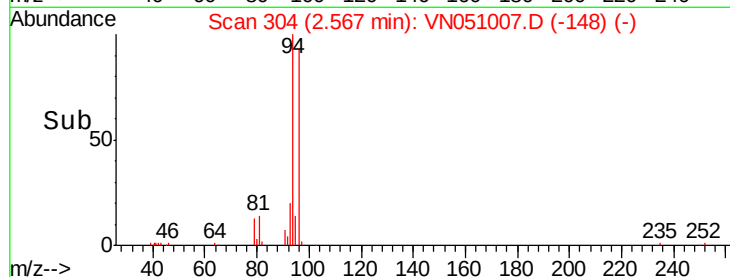
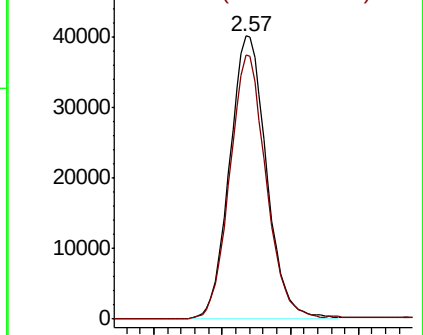
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 16.58 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN051007.D

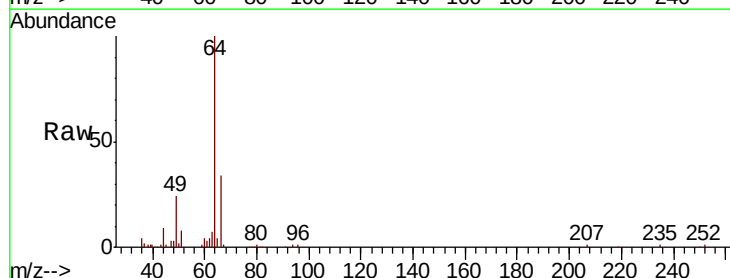
Acq: 4 Sep 2018 10:02

Tgt Ion: 64 Resp: 77642

Ion Ratio Lower Upper

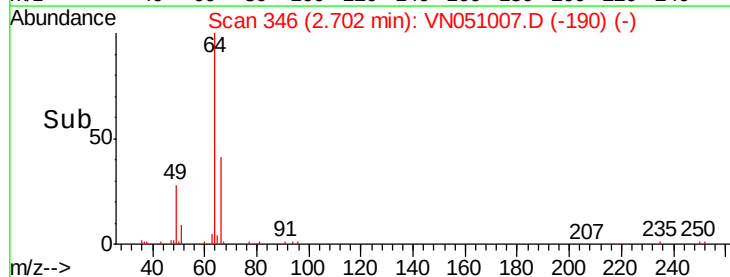
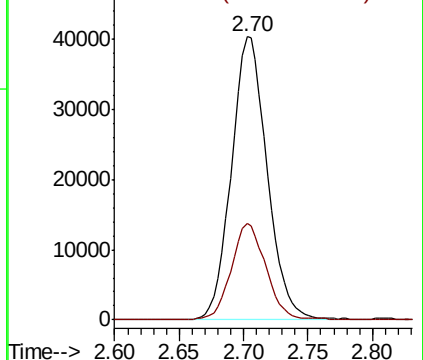
64 100

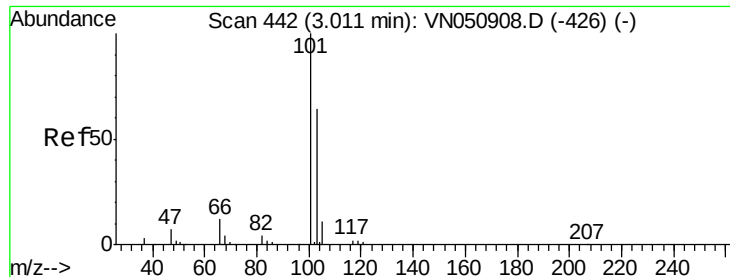
66 34.2 24.5 36.7



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

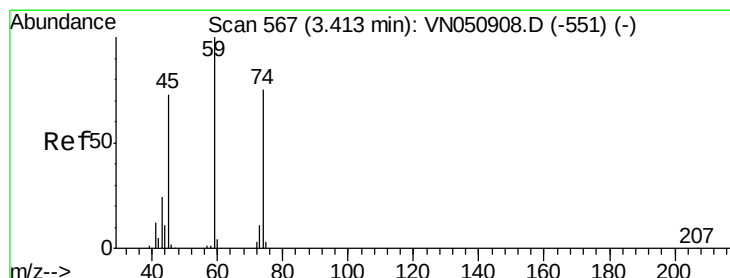
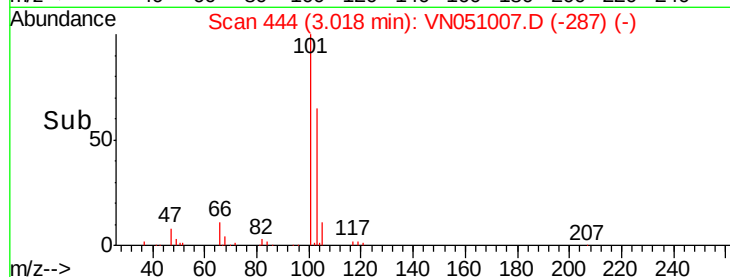
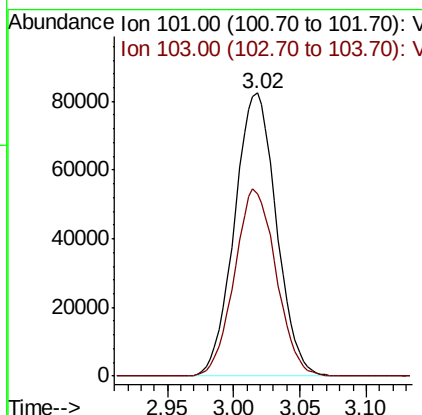
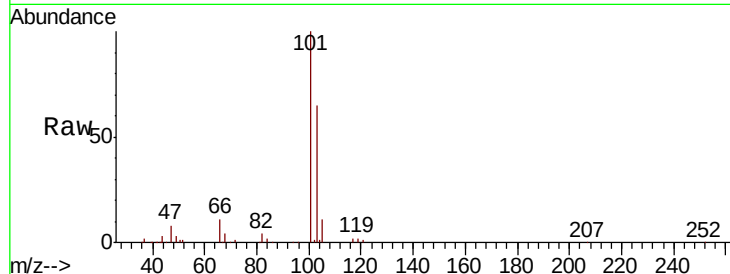
Trichlorofluoromethane
 Concen: 17.22 ug/l
 RT: 3.02 min Scan# 444
 Delta R.T. 0.01 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
101	100		
103	64.6	51.3	76.9

Manual Integrations
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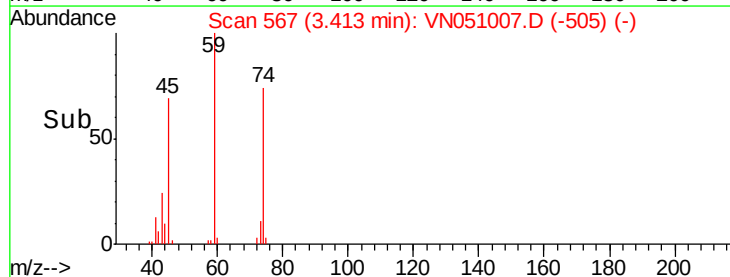
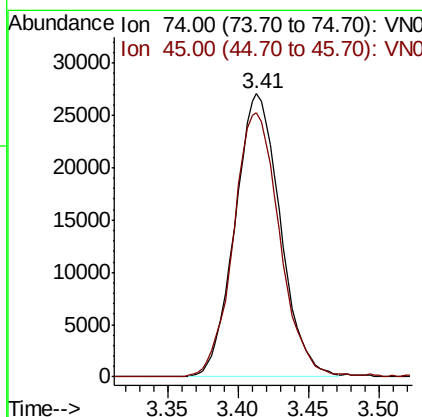
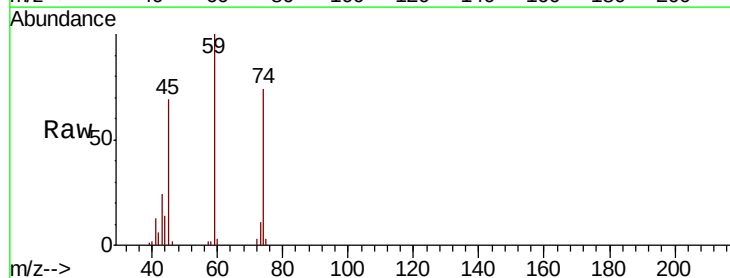
MMDadoda
 9/5/2018 12:00:12 PM

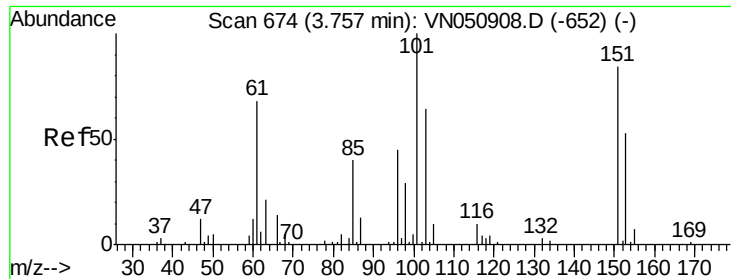


#8

Diethyl Ether
 Concen: 16.37 ug/l
 RT: 3.41 min Scan# 567
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
74	100		
45	95.1	19.7	177.1





#9

1,1,2-Trichlorotrifluoroethane

Concen: 17.37 ug/l

RT: 3.76 min Scan# 675

Delta R.T. 0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

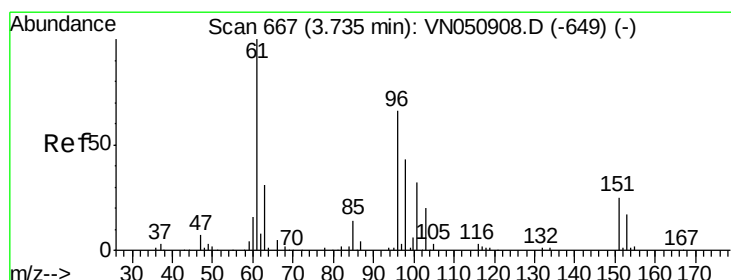
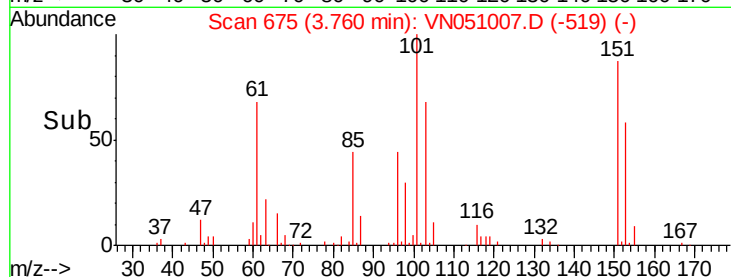
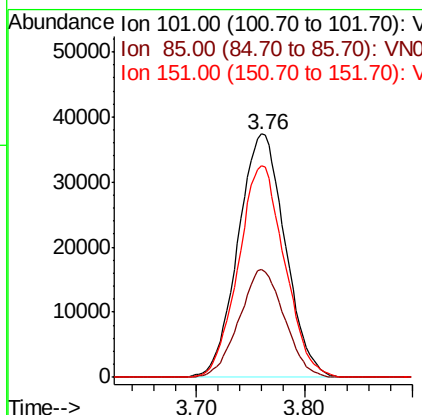
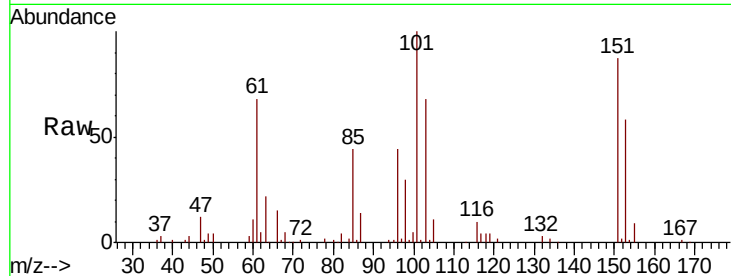
ClientSampled :

VSTDCCC020

Tot Ion:	101	Resp:	113221
Ion Ratio	Lower	Upper	
101	100		
85	42.5	0.0	83.6
151	85.5	0.0	167.0

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:12 PM



#10

1,1-Dichloroethene

Concen: 16.69 ug/l

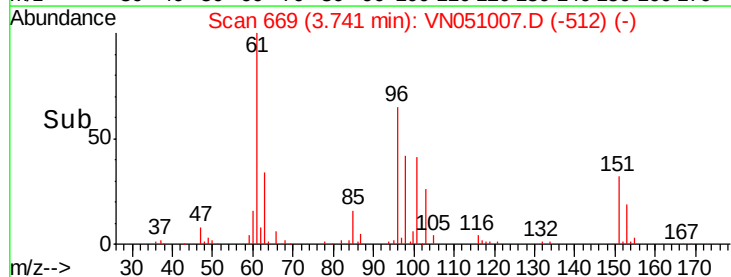
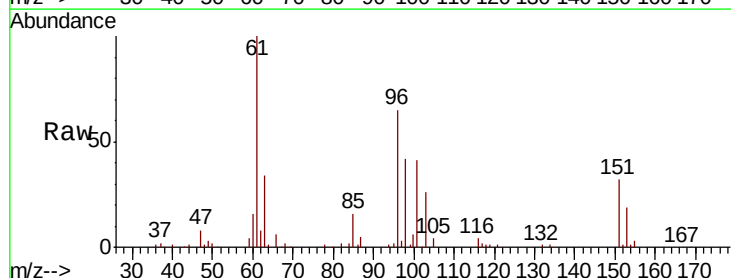
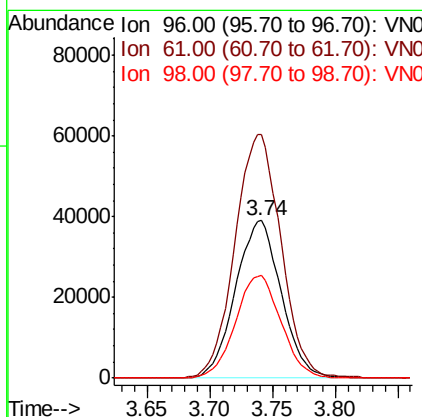
RT: 3.74 min Scan# 669

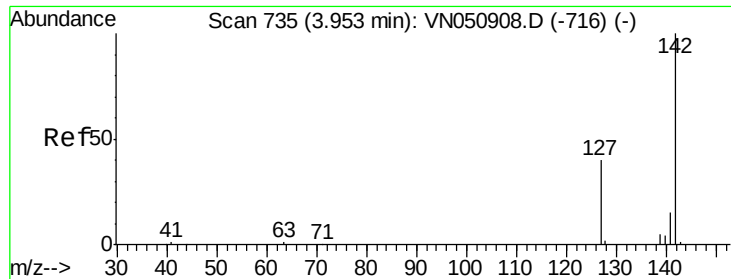
Delta R.T. 0.01 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Tgt Ion:	96	Resp:	98821
Ion Ratio	Lower	Upper	
96	100		
61	153.6	121.8	182.8
98	65.0	52.3	78.5





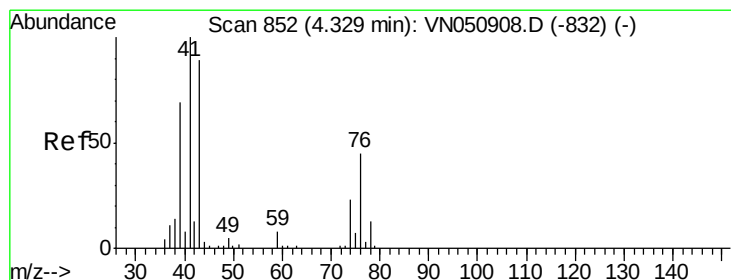
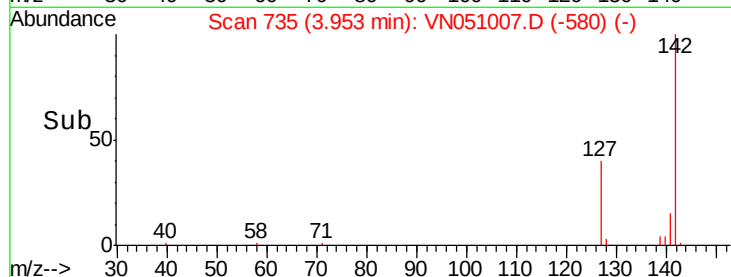
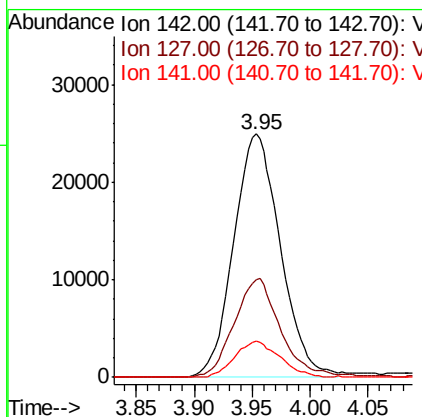
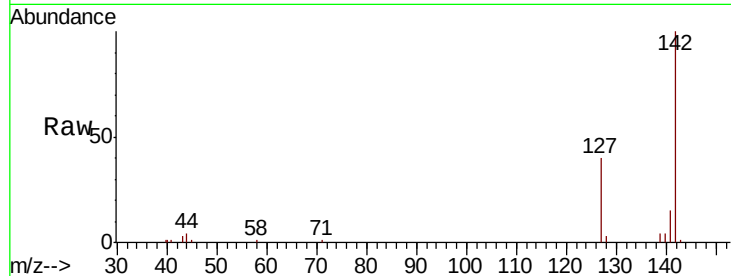
#11
Methvl Iodide
Concen: 12.61 ug/l
RT: 3.95 min Scan# 735
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
142	100		
127	40.1	19.7	59.1
141	14.8	7.3	22.0

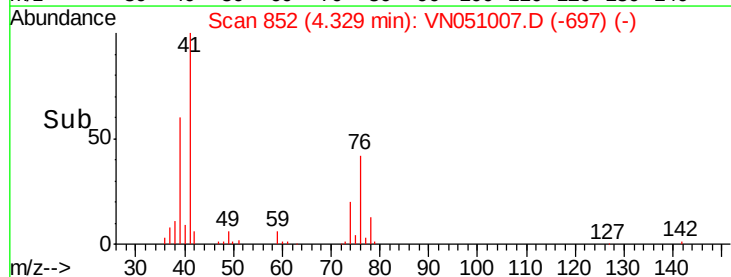
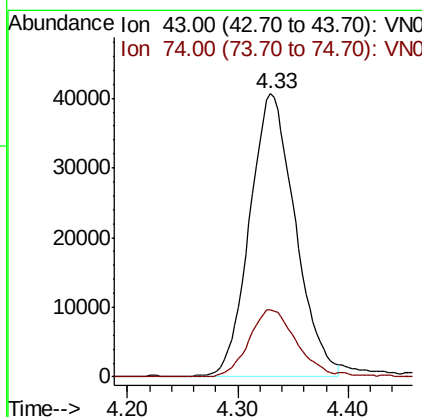
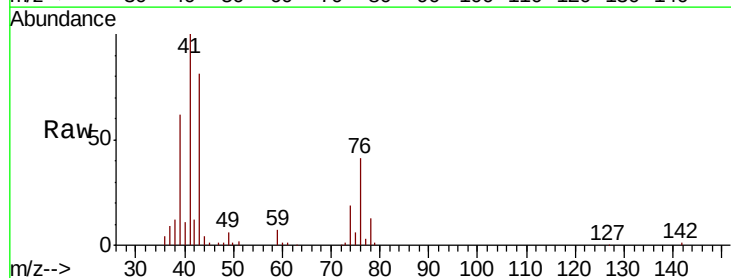
Manual Integrations
APPROVED

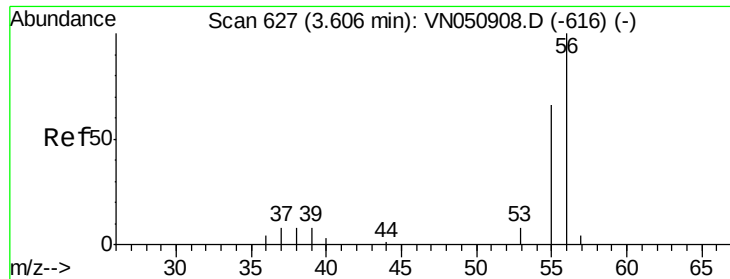
MMDadoda
9/5/2018 12:00:12 PM



#12
Methyl Acetate
Concen: 17.03 ug/l
RT: 4.33 min Scan# 852
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
43	100		
74	23.4	20.6	31.0





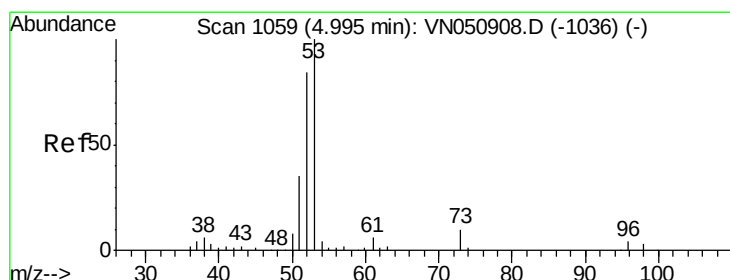
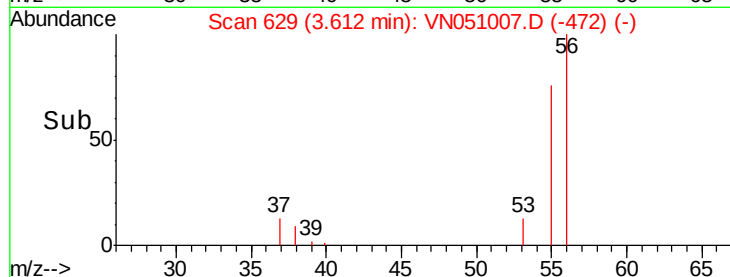
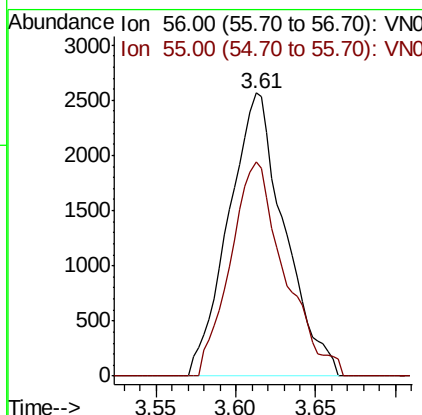
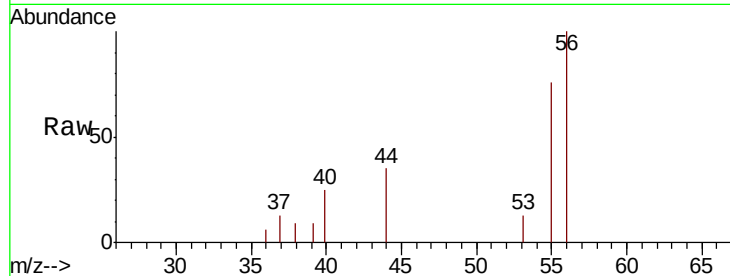
#13
Acrolein
Concen: 40.54 ug/l
RT: 3.61 min Scan# 629
Delta R.T. 0.01 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 56 Resp: 6146
Ion Ratio Lower Upper
56 100
55 71.4 59.1 88.7

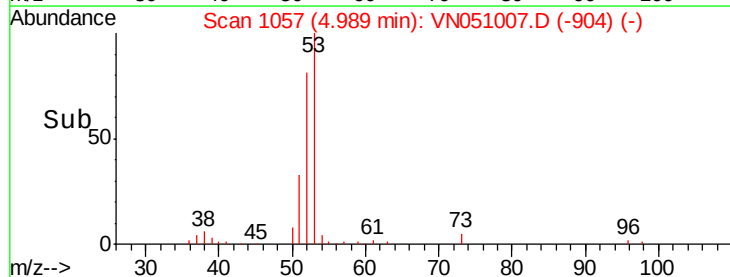
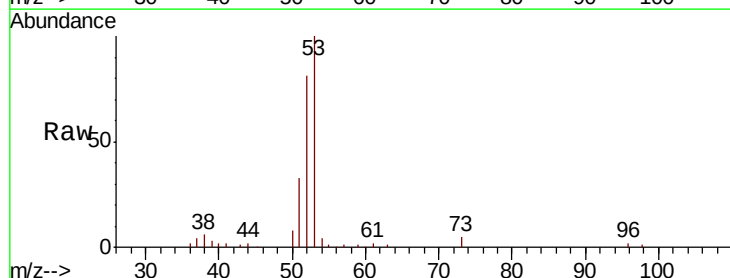
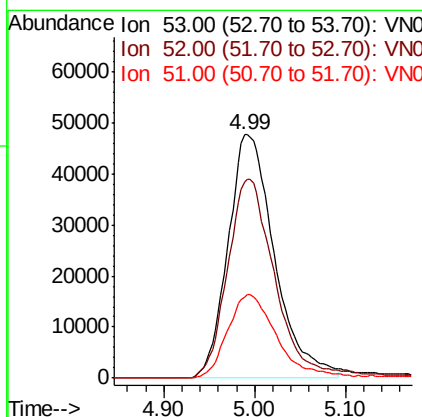
Manual Integrations
APPROVED

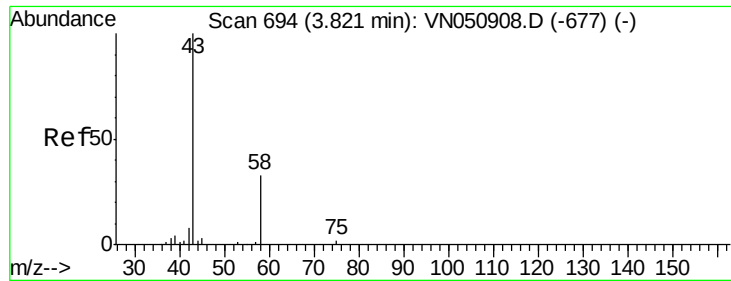
MMDadoda
9/5/2018 12:00:12 PM



#14
Acrylonitrile
Concen: 73.27 ug/l
RT: 4.99 min Scan# 1057
Delta R.T. -0.01 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion: 53 Resp: 169621
Ion Ratio Lower Upper
53 100
52 82.0 42.2 126.6
51 34.3 17.7 53.1





#15

Acetone

Concen: 80.73 ug/l

RT: 3.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 58 Resp: 47824

Ion Ratio Lower Upper

58 100

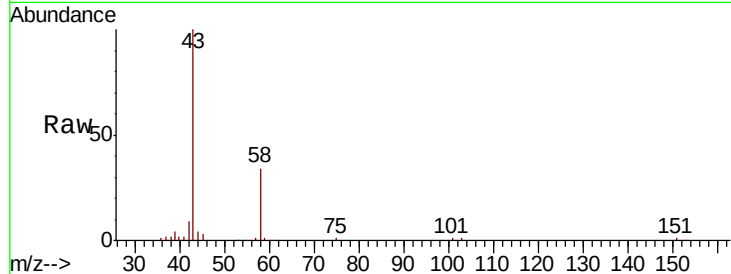
43 291.7 239.4 359.0

Manual Integrations

APPROVED

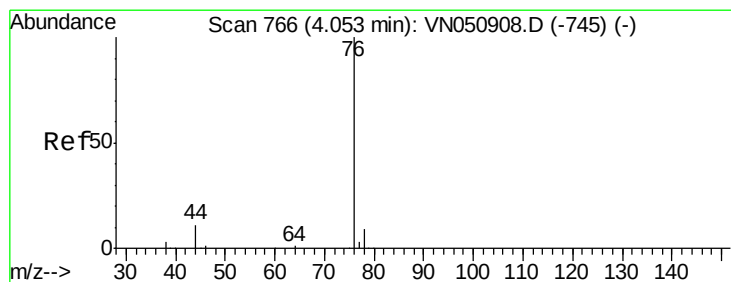
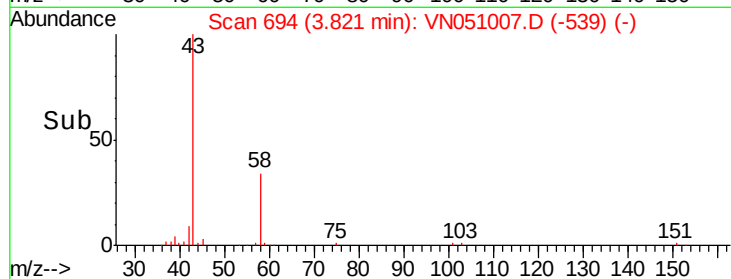
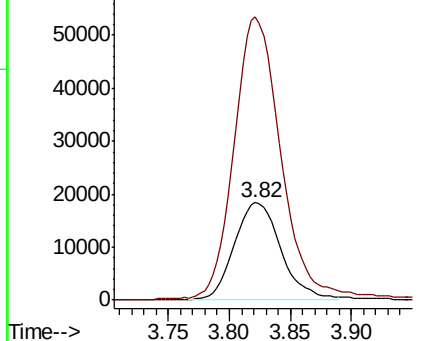
MMDadoda

9/5/2018 12:00:12 PM



Abundance Ion 58.00 (57.70 to 58.70): VN050908.D (-677) (-)

Ion 43.00 (42.70 to 43.70): VN050908.D (-677) (-)



#16

Carbon Disulfide

Concen: 16.19 ug/l

RT: 4.05 min Scan# 766

Delta R.T. -0.00 min

Lab File: VN051007.D

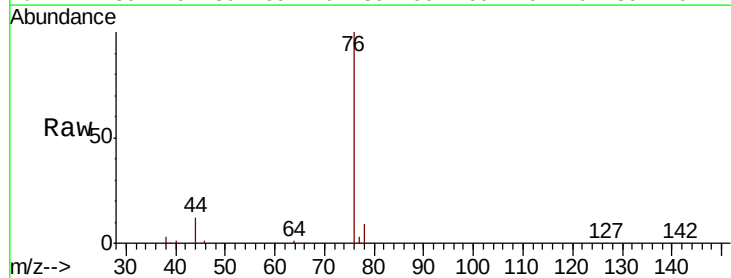
Acq: 4 Sep 2018 10:02

Tgt Ion: 76 Resp: 288316

Ion Ratio Lower Upper

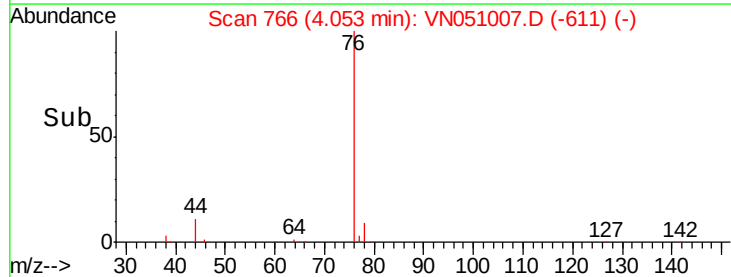
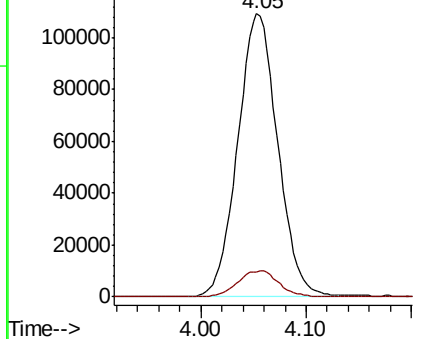
76 100

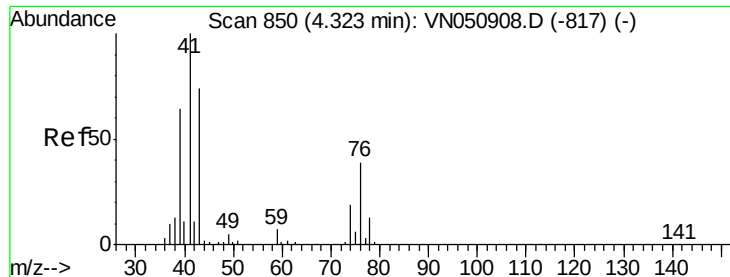
78 8.9 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN050908.D (-745) (-)

Ion 78.00 (77.70 to 78.70): VN050908.D (-745) (-)





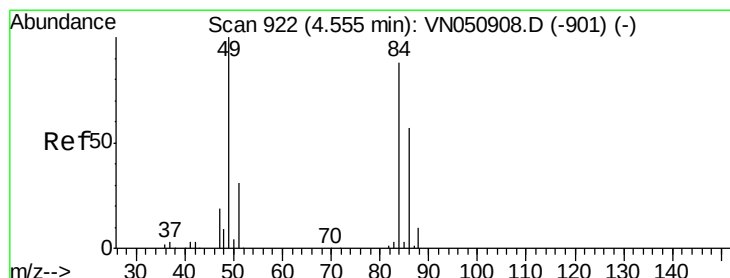
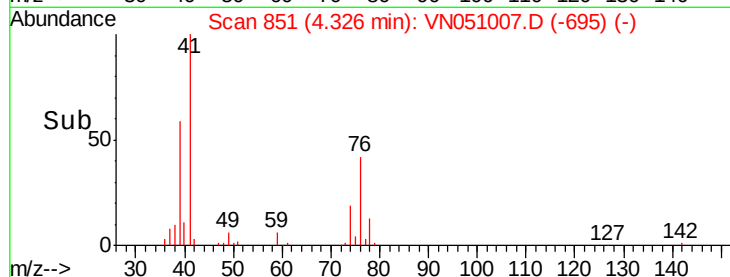
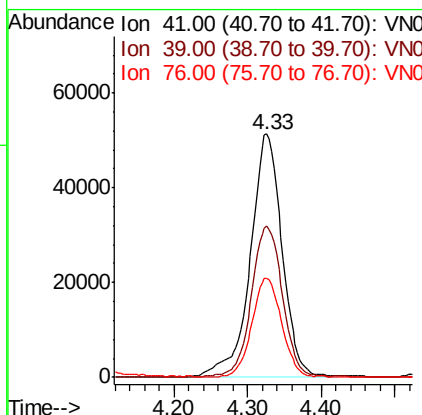
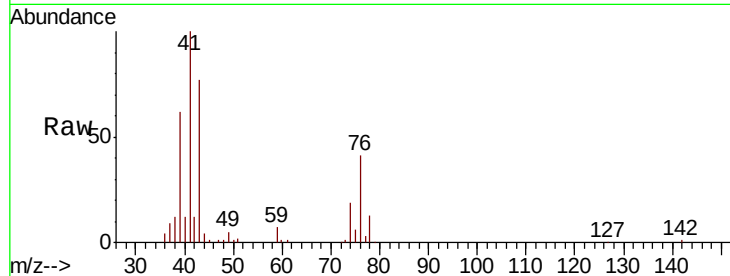
#17
Allvl chloride
Concen: 16.60 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	62.0	32.2	96.6
76	40.5	19.6	58.7

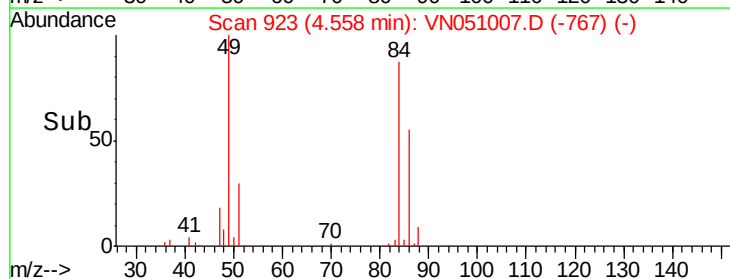
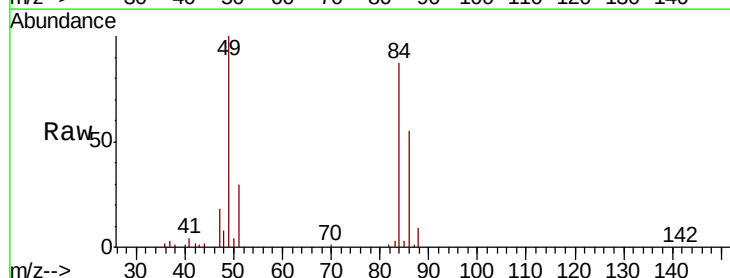
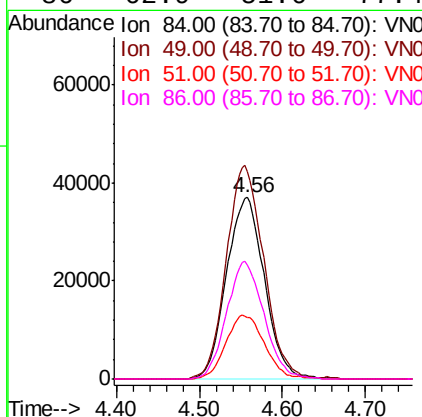
Manual Integrations
APPROVED

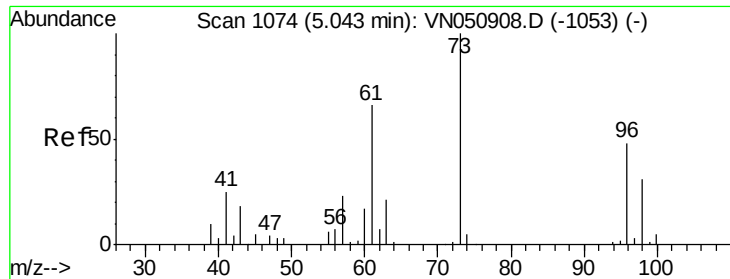
MMDadoda
9/5/2018 12:00:12 PM



#18
Methylene Chloride
Concen: 17.00 ug/l
RT: 4.56 min Scan# 923
Delta R.T. 0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
84	100		
49	114.5	90.6	135.8
51	33.9	28.4	42.6
86	62.9	51.6	77.4





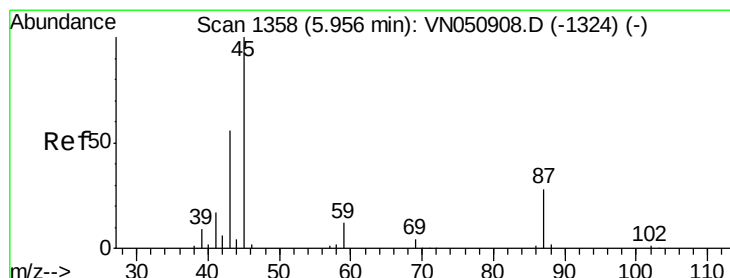
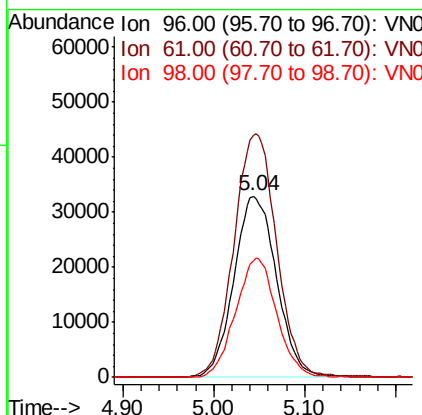
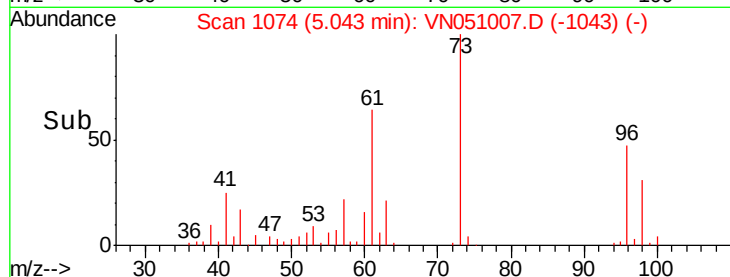
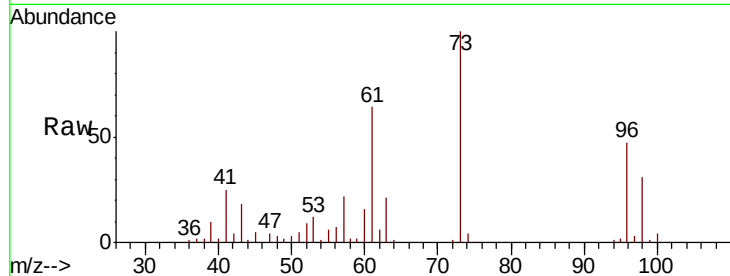
#19
trans-1,2-Dichloroethene
Concen: 16.94 ug/l
RT: 5.04 min Scan# 1074
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.0	109.5	164.3
98	64.4	51.9	77.9

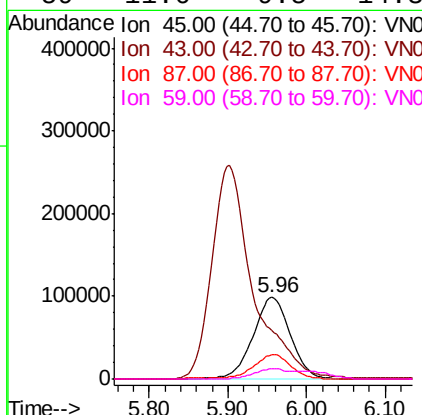
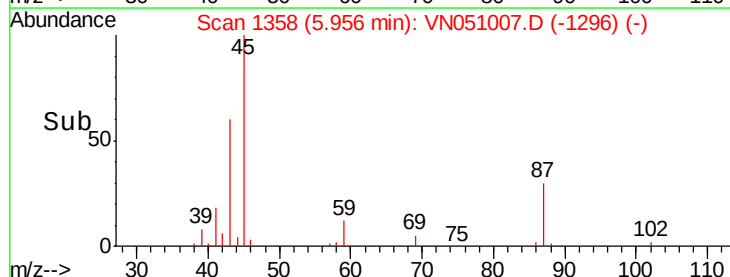
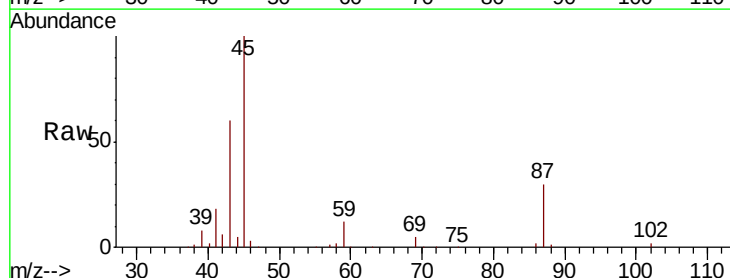
Manual Integrations
APPROVED

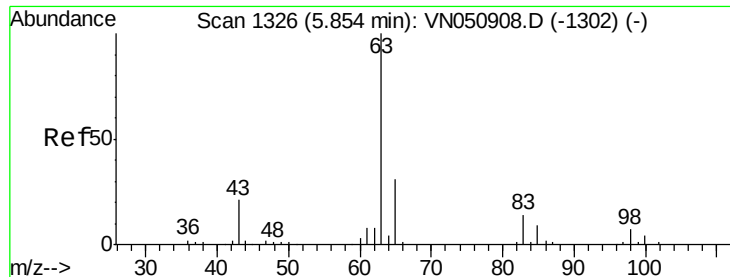
MMDadoda
9/5/2018 12:00:12 PM



#20
Diisopropyl ether
Concen: 17.10 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
45	100		
43	57.3	47.0	70.6
87	30.0	22.8	34.2
59	11.6	9.5	14.3





#21

1,1-Dichloroethane

Concen: 17.25 ug/l

RT: 5.85 min Scan# 1326

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

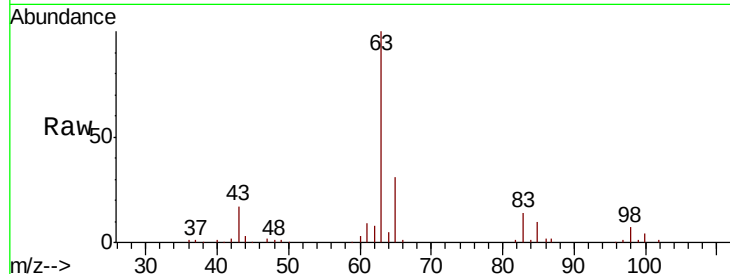
ClientSampleId :

VSTDCCC020

Tot Ion:	63	Resp:	204498
Ion	Ratio	Lower	Upper
63	100		
98	6.8	3.3	9.9
100	4.5	2.0	6.0

Manual Integrations
APPROVED

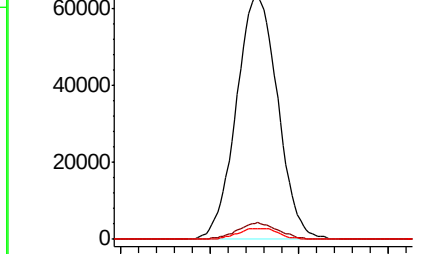
MMDadoda
9/5/2018 12:00:12 PM



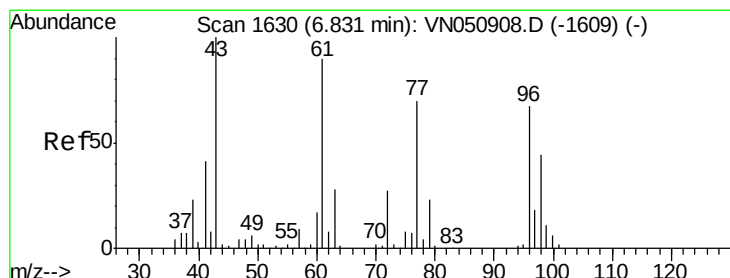
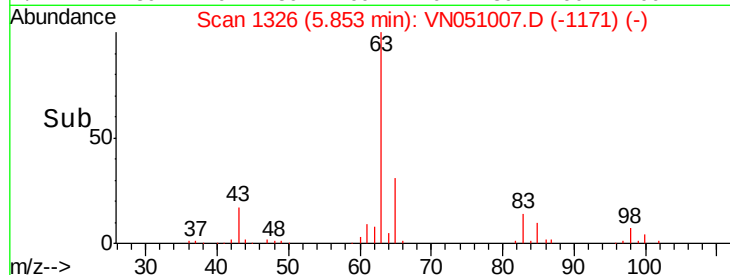
Abundance Ion 63.00 (62.70 to 63.70): VN051007.D (-1171) (-)

Ion 98.00 (97.70 to 98.70): VN051007.D (-1171) (-)

Ion 100.00 (99.70 to 100.70): VN051007.D (-1171) (-)



Time-->



#22

cis-1,2-Dichloroethene

Concen: 16.75 ug/l

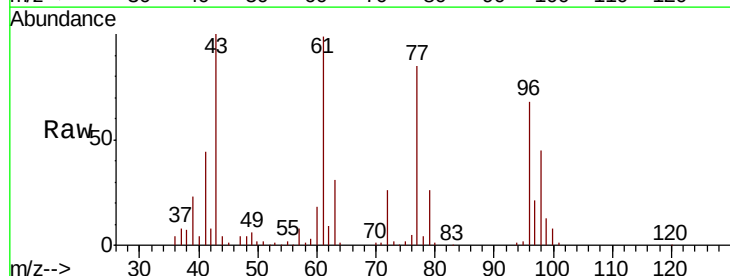
RT: 6.83 min Scan# 1631

Delta R.T. 0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

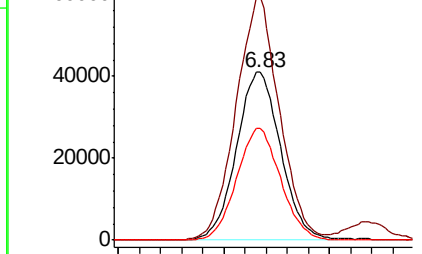
Tgt Ion:	96	Resp:	119375
Ion	Ratio	Lower	Upper
96	100		
61	142.0	110.0	165.0
98	66.0	51.7	77.5



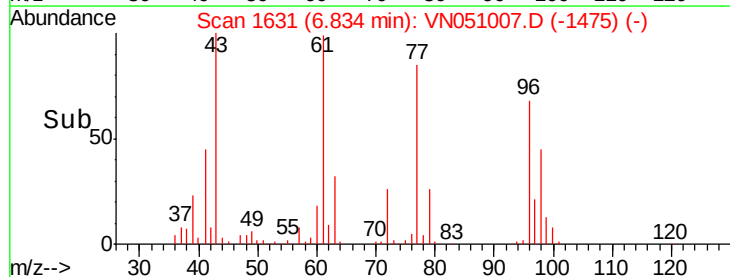
Abundance Ion 96.00 (95.70 to 96.70): VN051007.D (-1475) (-)

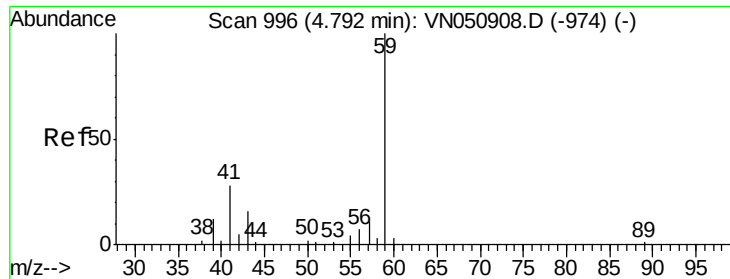
Ion 61.00 (60.70 to 61.70): VN051007.D (-1475) (-)

Ion 98.00 (97.70 to 98.70): VN051007.D (-1475) (-)



Time-->





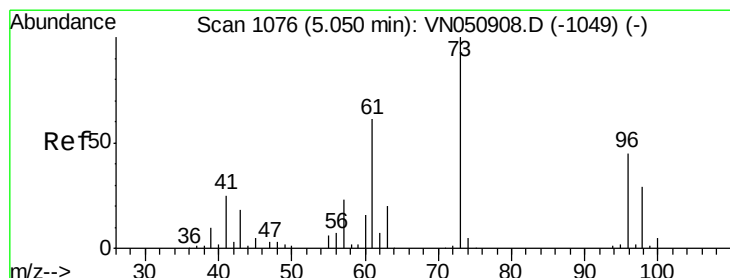
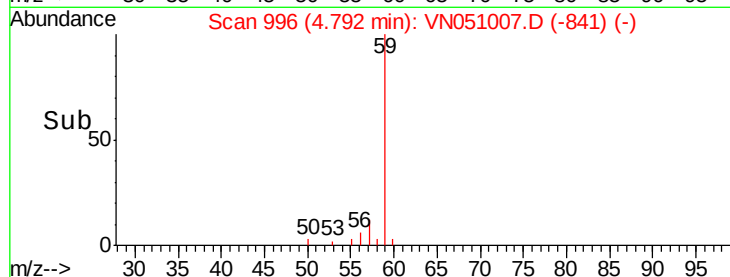
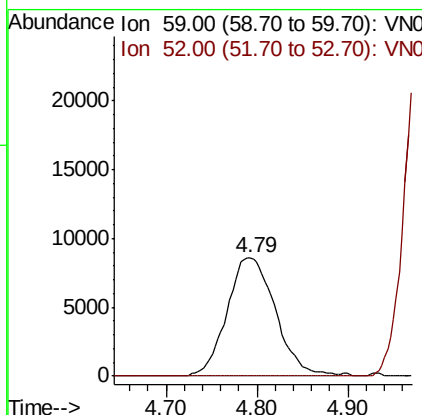
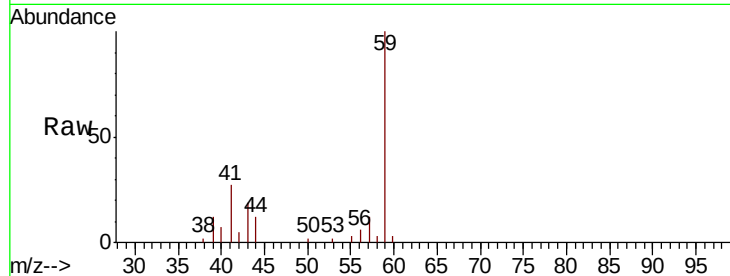
#23
 tert-Butyl Alcohol
 Concen: 64.66 ug/l
 RT: 4.79 min Scan# 996
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020

Tot Ion: 59 Resp: 31836
 Ion Ratio Lower Upper
 59 100
 52 0.0 0.1 0.1#

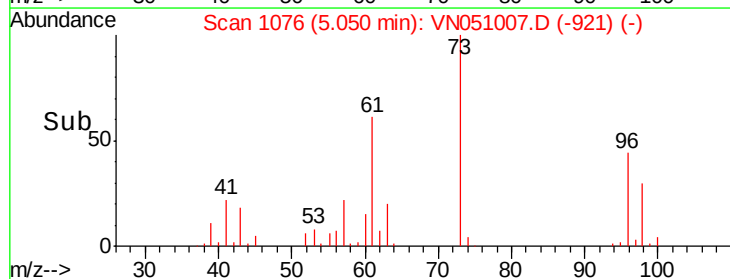
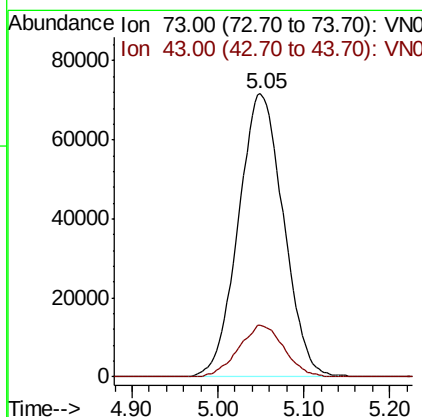
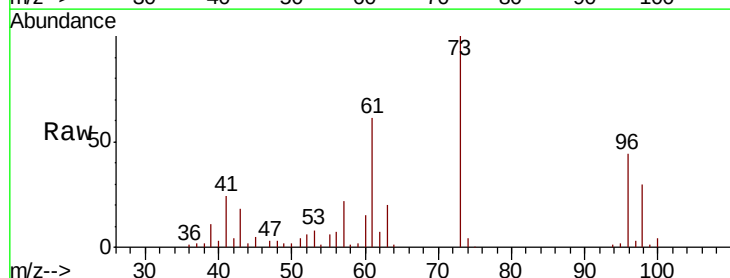
Manual Integrations
 APPROVED

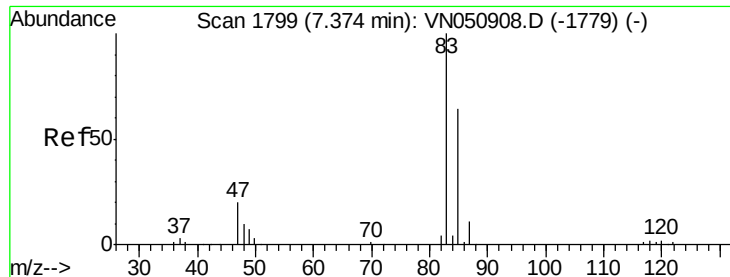
MMDadoda
 9/5/2018 12:00:12 PM



#24
 Methyl tert-Butyl Ether
 Concen: 16.15 ug/l
 RT: 5.05 min Scan# 1076
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Tgt Ion: 73 Resp: 261521
 Ion Ratio Lower Upper
 73 100
 43 18.4 14.4 21.6





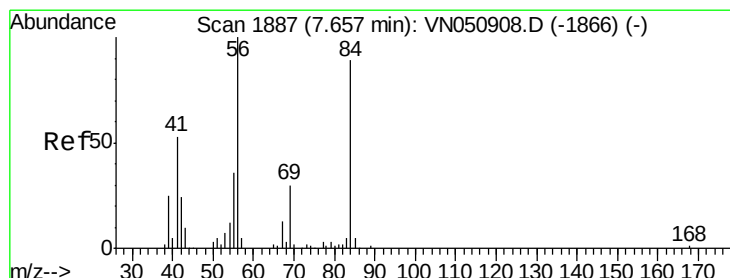
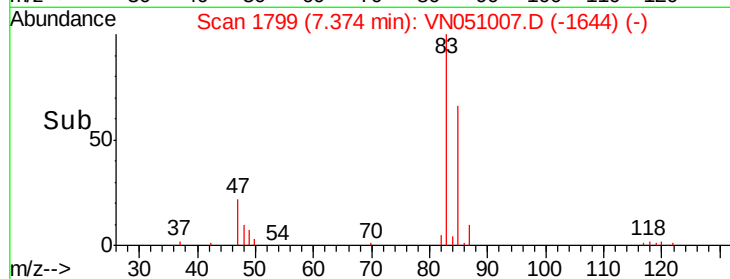
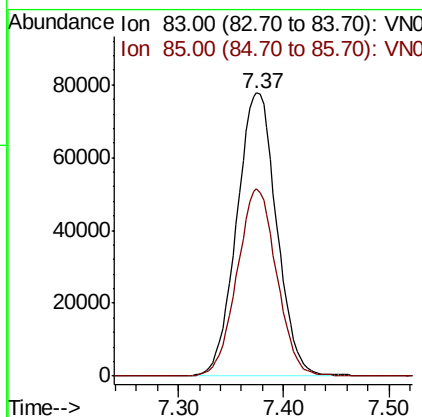
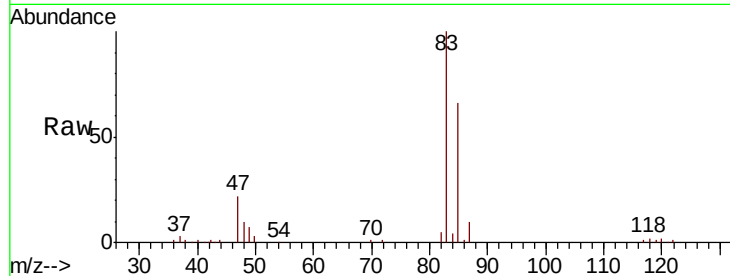
#25
Chloroform
Concen: 17.27 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	83	Resp	204427
Ion Ratio	Lower	Upper	
83	100		
85	66.1	51.4	77.0

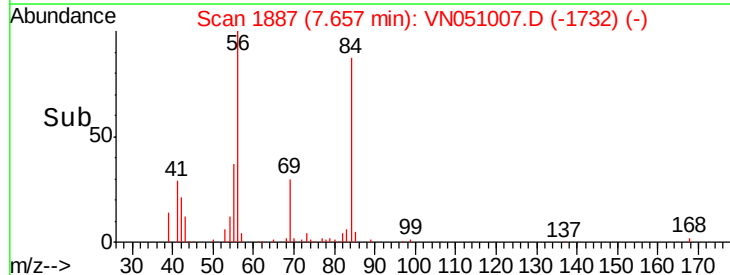
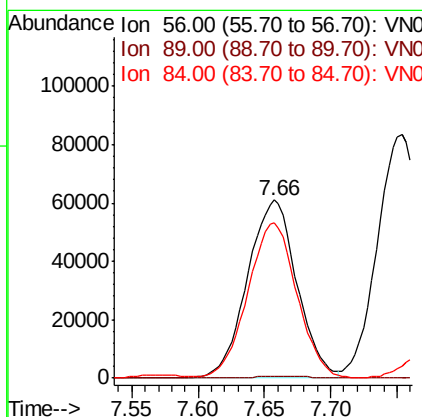
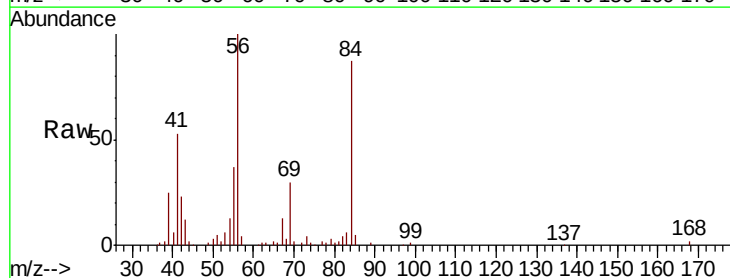
Manual Integrations
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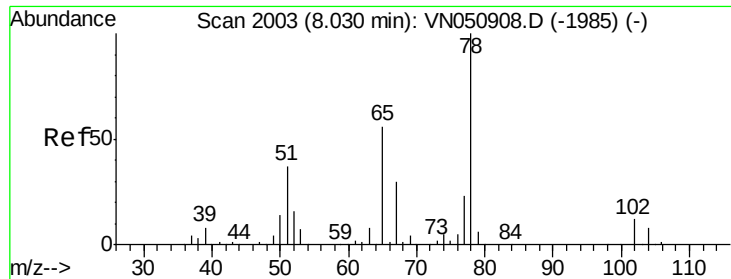
MMDadoda
9/5/2018 12:00:12 PM



#26
Cyclohexane
Concen: 16.15 ug/l
RT: 7.66 min Scan# 1887
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion	56	Resp	158630
Ion Ratio	Lower	Upper	
56	100		
89	0.6	0.4	0.6
84	86.9	70.4	105.6





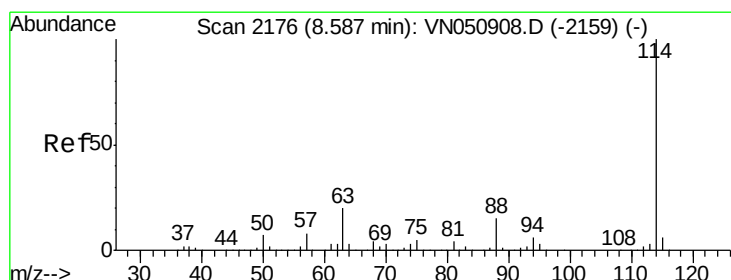
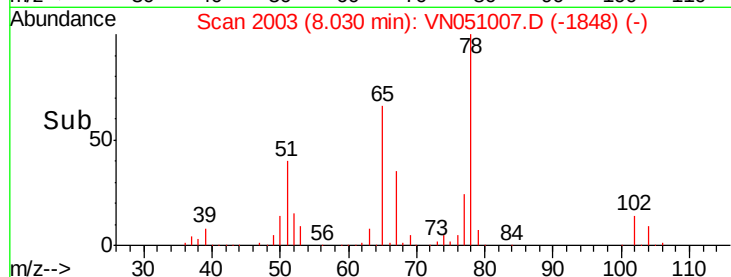
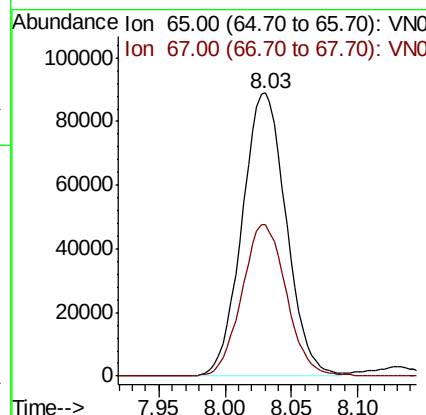
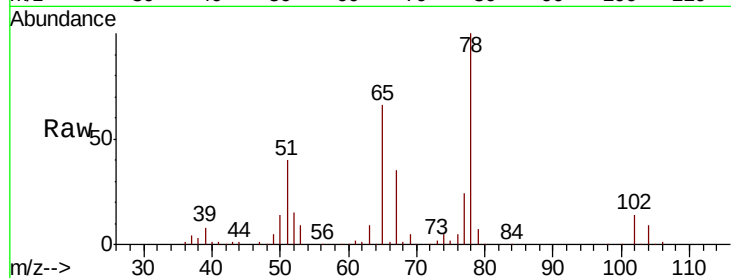
#27
 1,2-Dichloroethane-d4
 Concen: 29.50 ug/l
 RT: 8.03 min Scan# 2003
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
65	100		
67	54.1	43.7	65.5

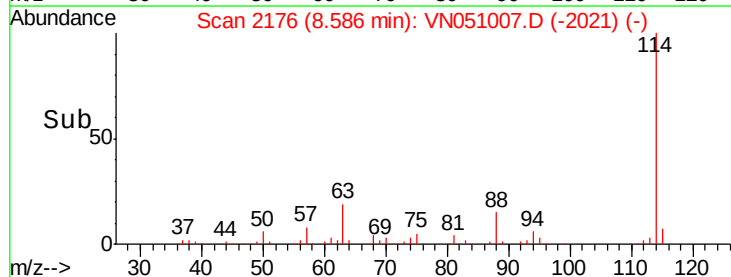
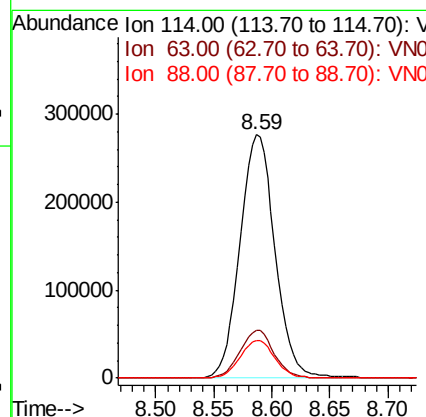
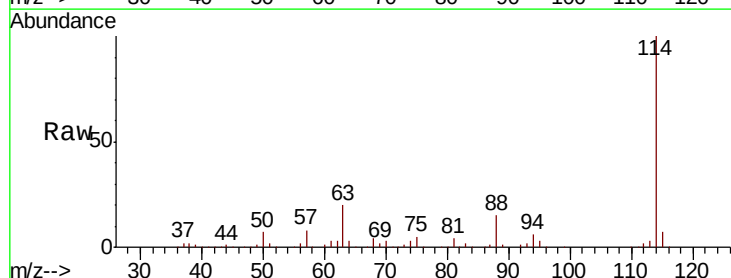
Manual Integrations
 APPROVED

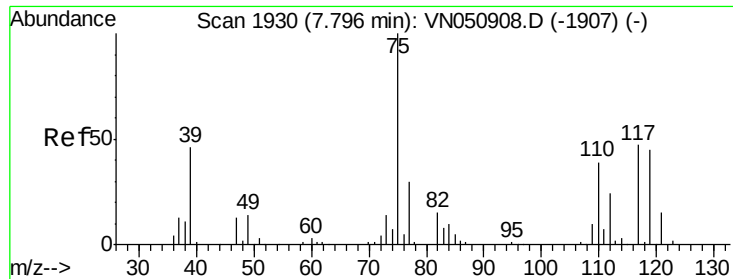
MMDadoda
 9/5/2018 12:00:12 PM



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
114	100		
63	19.3	15.6	23.4
88	15.4	12.2	18.4





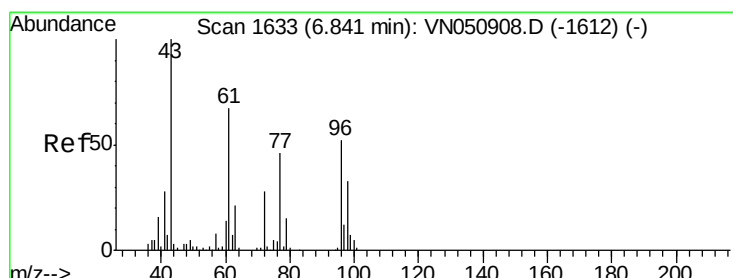
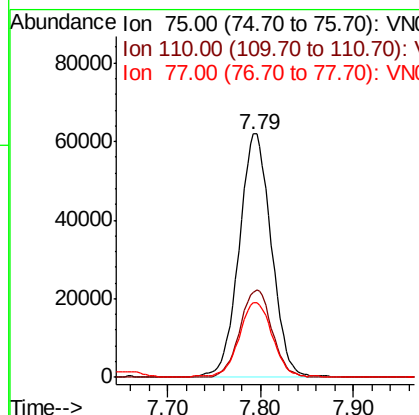
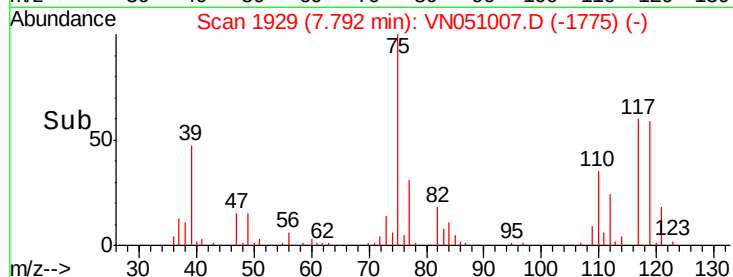
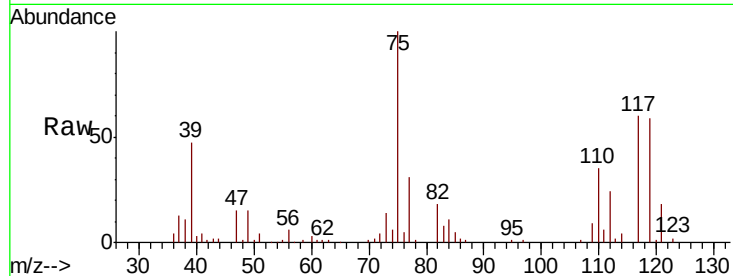
#29
 1,1-Dichloropropene
 Concen: 17.20 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
75	100	149774		
110	35.7	0.0	75.0	
77	31.6	0.0	60.6	

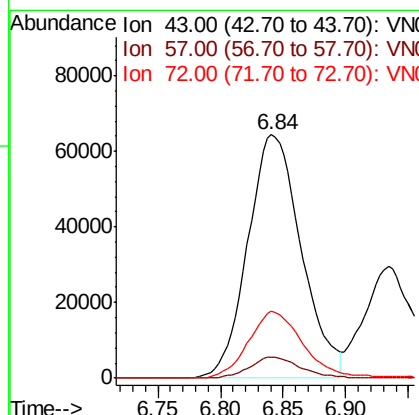
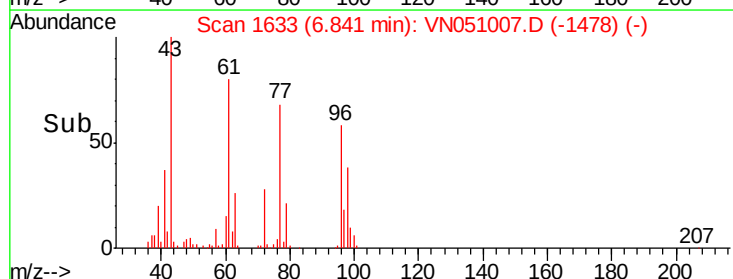
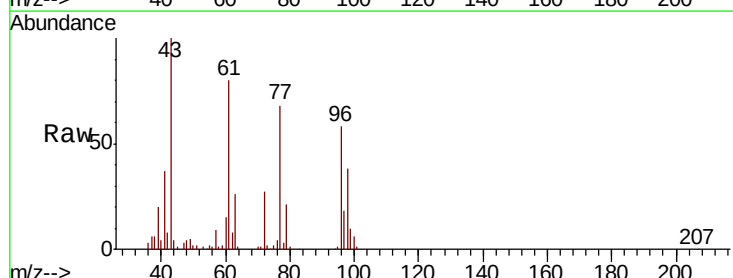
Manual Integrations
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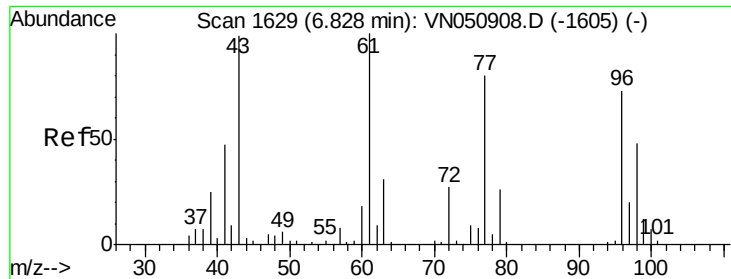
MMDadoda
 9/5/2018 12:00:12 PM



#30
 2-Butanone
 Concen: 70.97 ug/l
 RT: 6.84 min Scan# 1633
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Resp	Lower	Upper
43	100	190102		
57	8.2	6.9	10.3	
72	28.0	22.8	34.2	





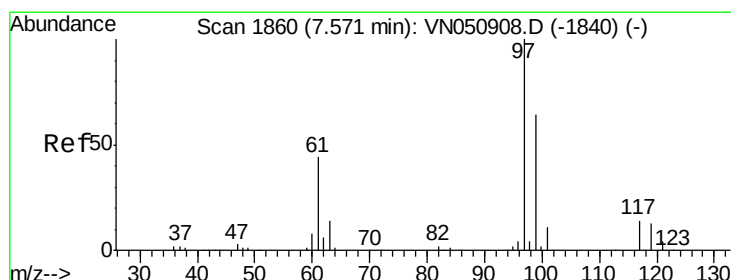
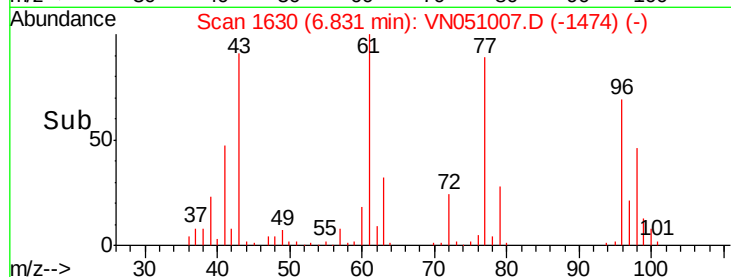
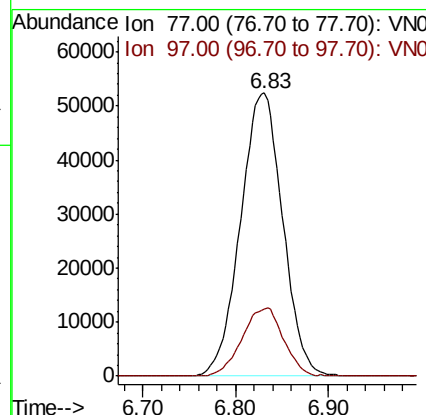
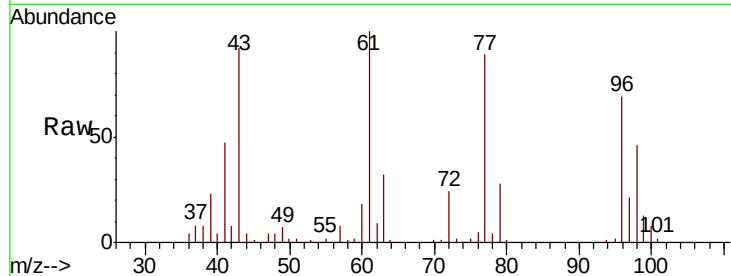
#31
 2,2-Dichloropropane
 Concen: 19.51 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020

Tot Ion: 77 Resp: 165281
 Ion Ratio Lower Upper
 77 100
 97 23.6 20.2 30.2

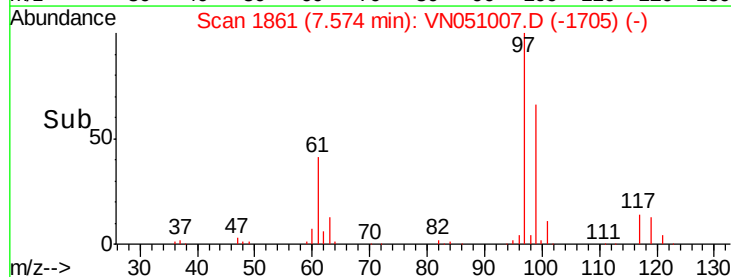
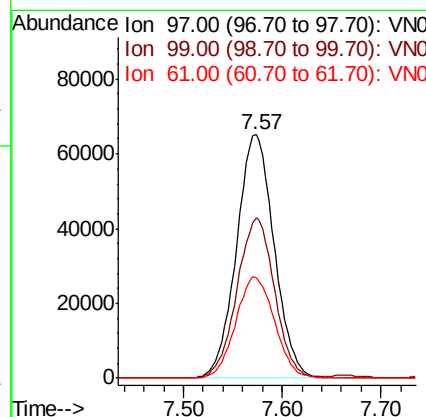
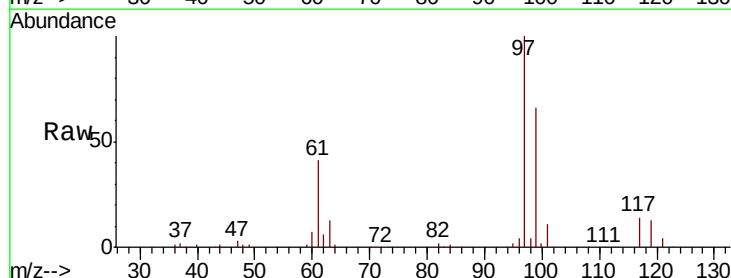
Manual Integrations
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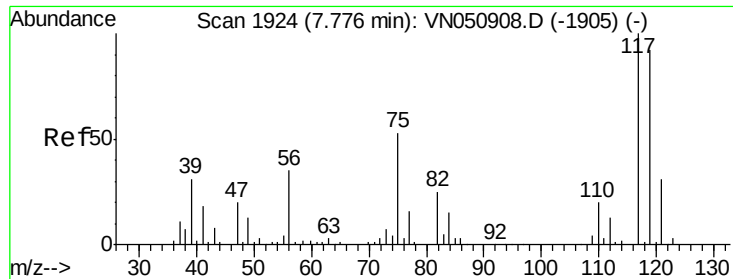
MMDadoda
 9/5/2018 12:00:12 PM



#32
 1,1,1-Trichloroethane
 Concen: 17.47 ug/l
 RT: 7.57 min Scan# 1861
 Delta R.T. 0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Tgt Ion: 97 Resp: 172533
 Ion Ratio Lower Upper
 97 100
 99 65.7 52.0 78.0
 61 42.8 35.0 52.6





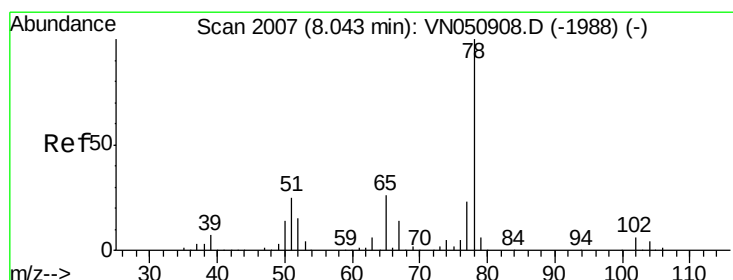
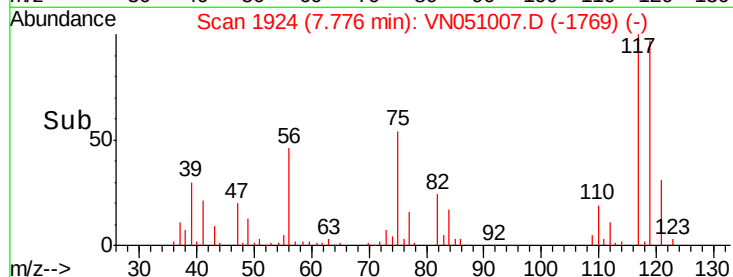
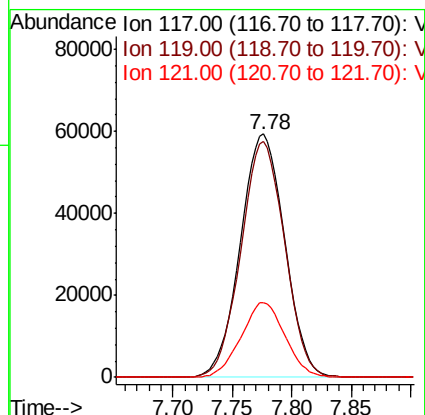
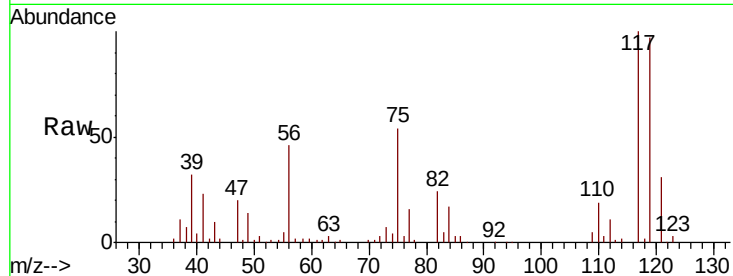
#33
Carbon Tetrachloride
Concen: 17.21 ug/l
RT: 7.78 min Scan# 1924
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
117	100		
119	97.0	73.5	110.3
121	30.7	24.6	37.0

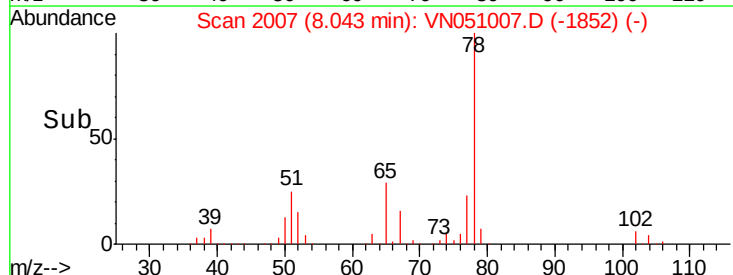
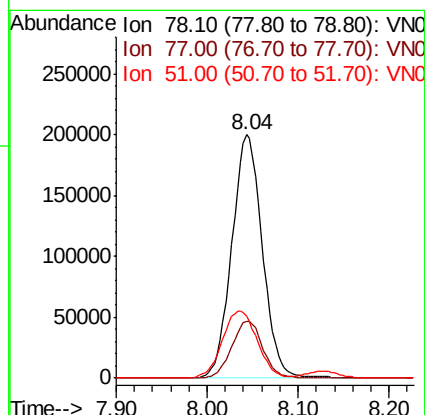
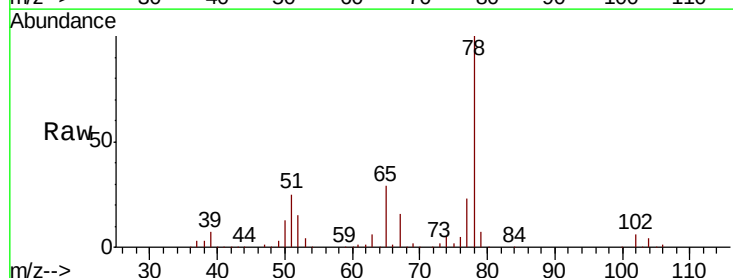
Manual Integrations
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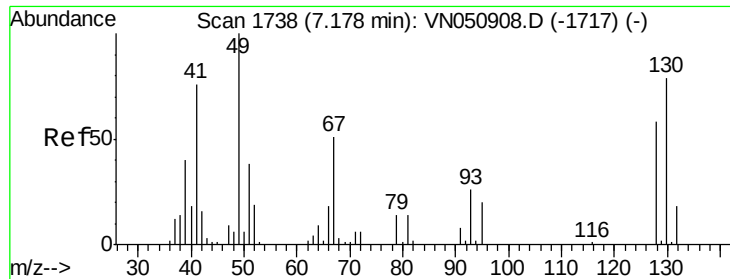
MMDadoda
9/5/2018 12:00:12 PM



#34
Benzene
Concen: 17.31 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.2	18.6	28.0
51	25.2	20.0	30.0





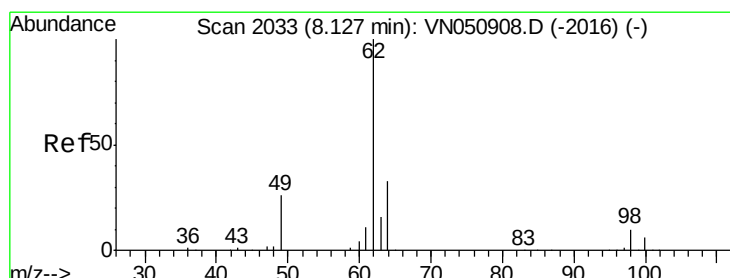
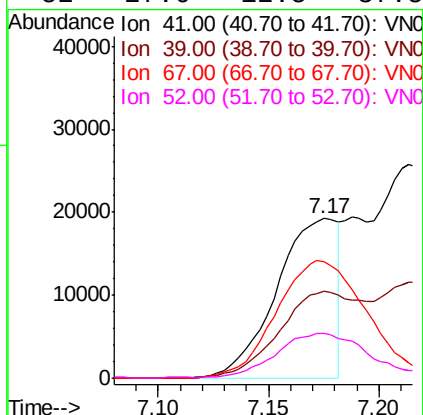
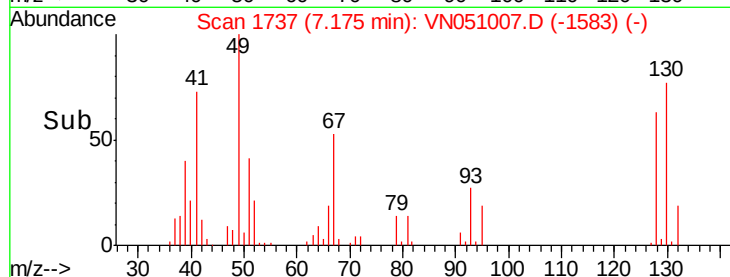
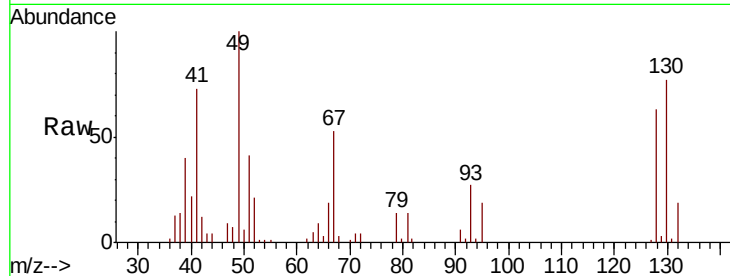
#35
Methacrylonitrile
Concen: 12.69 ug/l
RT: 7.17 min Scan# 1737
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	54.4	26.2	78.5	
67	73.2	33.9	101.6	
52	27.6	12.5	37.5	

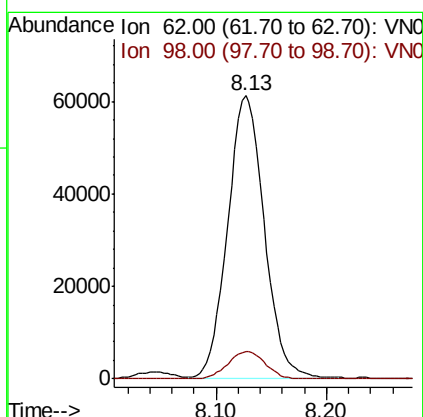
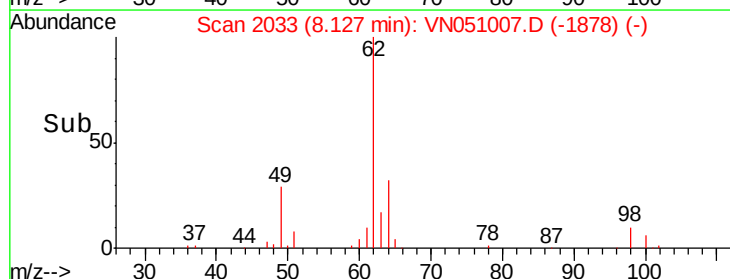
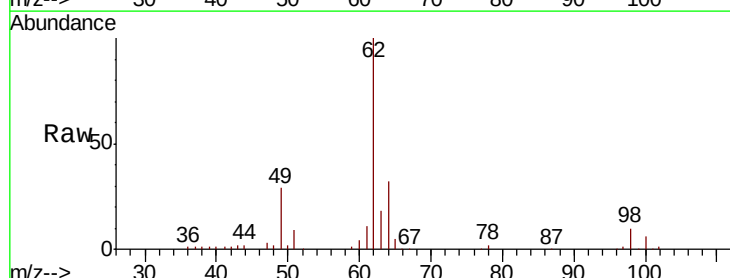
Manual Integrations
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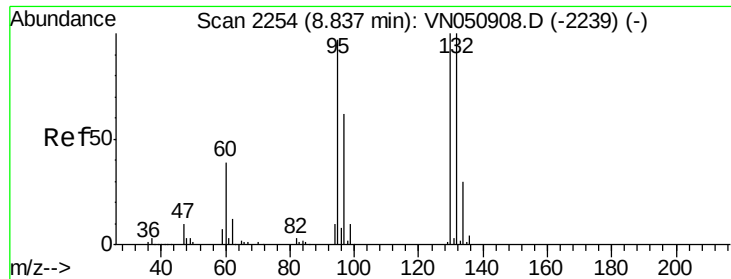
MMDadoda
9/5/2018 12:00:12 PM



#36
1,2-Dichloroethane
Concen: 17.28 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.8	8.0	12.0	





#37

Trichloroethene

Concen: 17.39 ug/l

RT: 8.84 min Scan# 2254

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:130 Resp: 122459

Ion Ratio Lower Upper

130 100

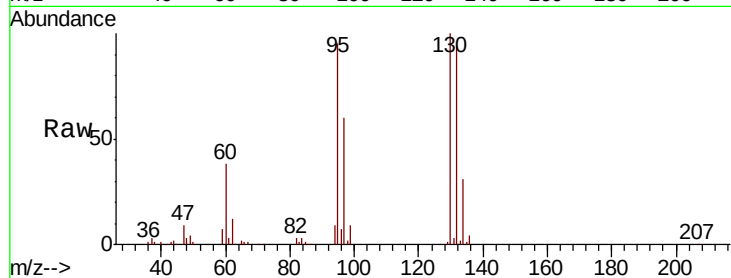
95 95.3 77.4 116.0

Manual Integrations

APPROVED

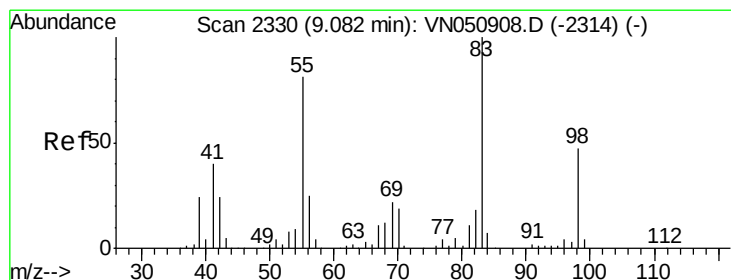
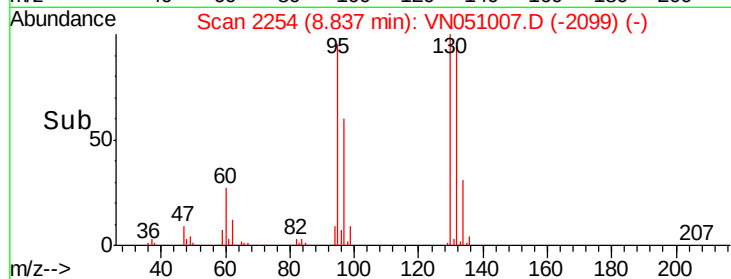
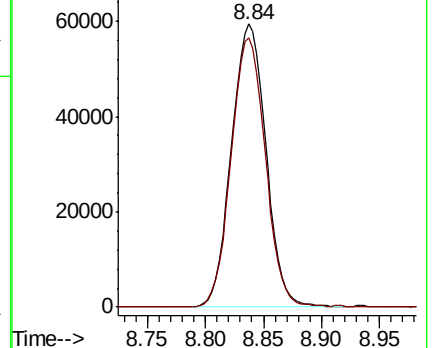
MMDadoda

9/5/2018 12:00:12 PM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN



#38

Methylcyclohexane

Concen: 16.24 ug/l

RT: 9.08 min Scan# 2330

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

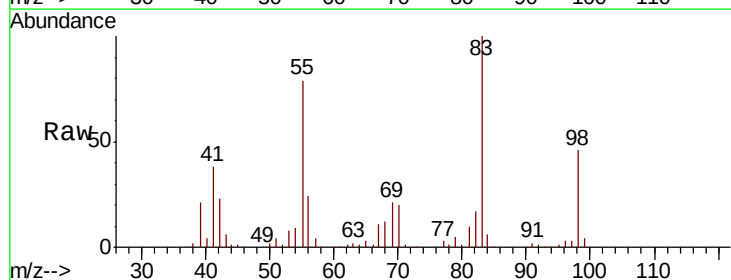
Tgt Ion: 83 Resp: 151894

Ion Ratio Lower Upper

83 100

55 78.6 38.9 116.7

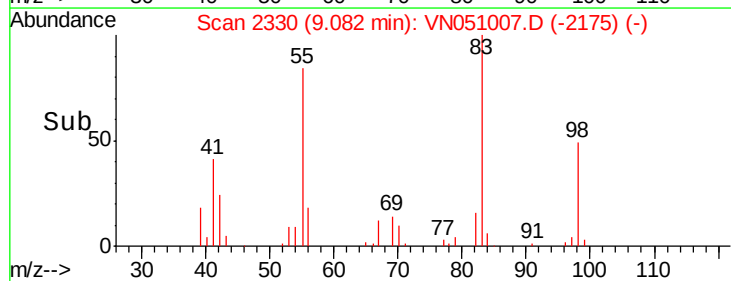
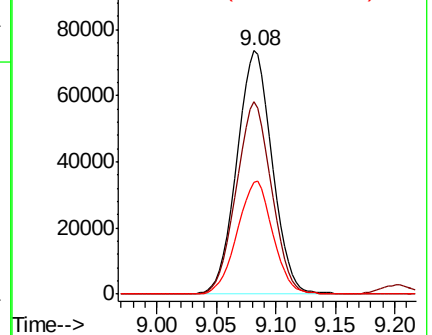
98 46.5 22.9 68.7

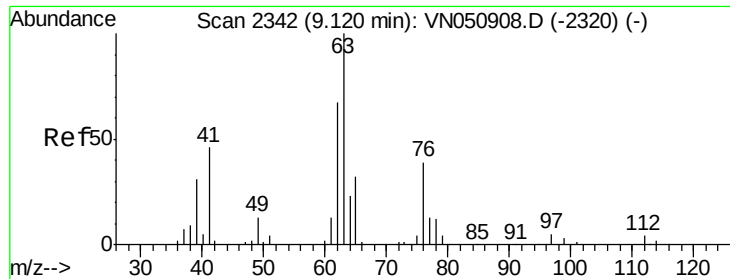


Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN





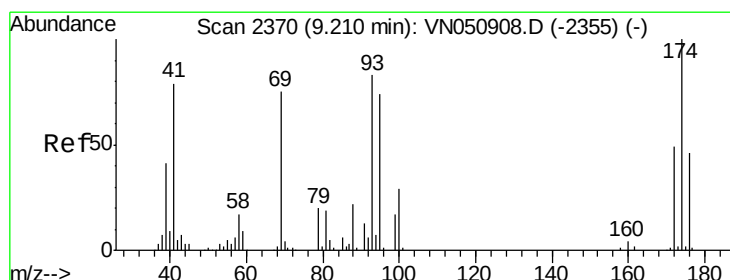
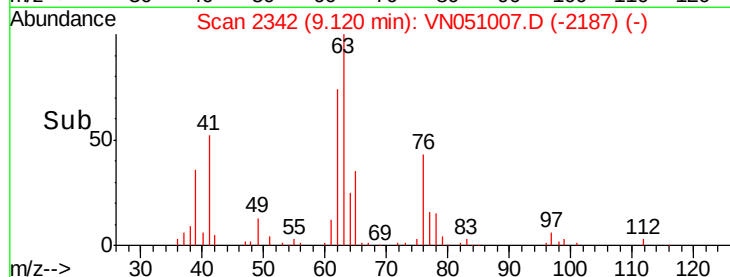
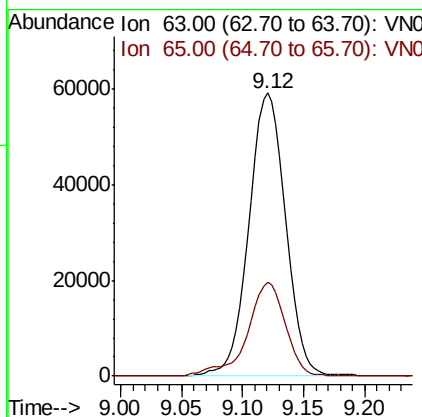
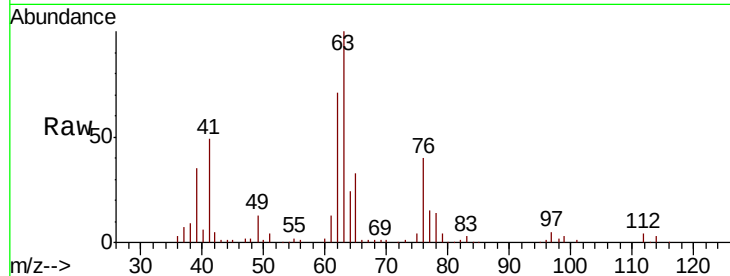
#39
 1,2-Dichloropropane
 Concen: 17.49 ug/l
 RT: 9.12 min Scan# 2342
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	33.0	25.6	38.4

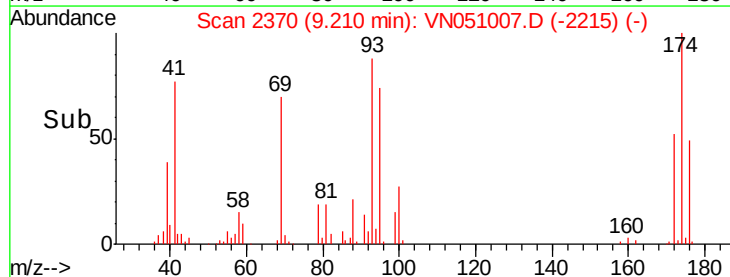
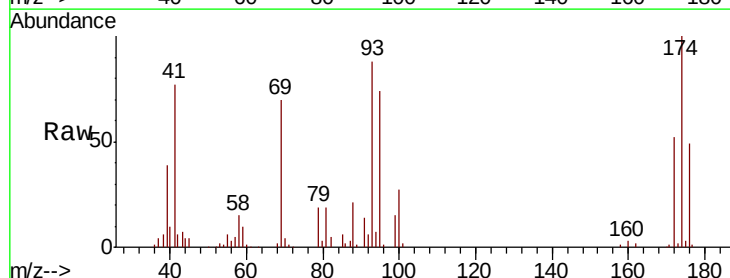
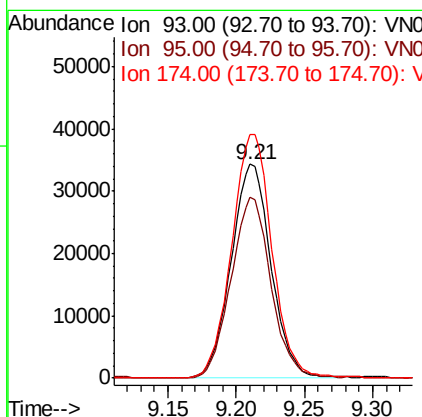
Manual Integrations
 APPROVED

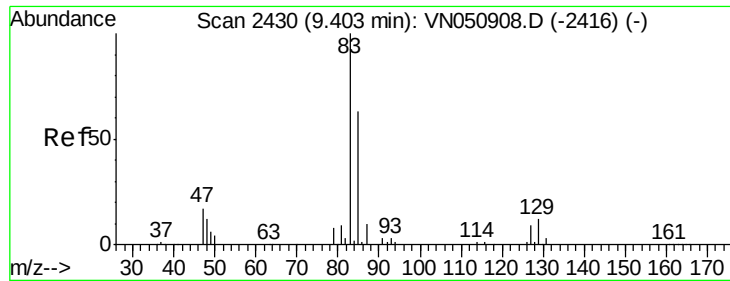
MMDadoda
 9/5/2018 12:00:12 PM



#40
 Dibromomethane
 Concen: 16.47 ug/l
 RT: 9.21 min Scan# 2370
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
93	100		
95	84.4	0.0	173.4
174	115.0	0.0	234.8





#41

Bromodichloromethane

Concen: 16.91 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

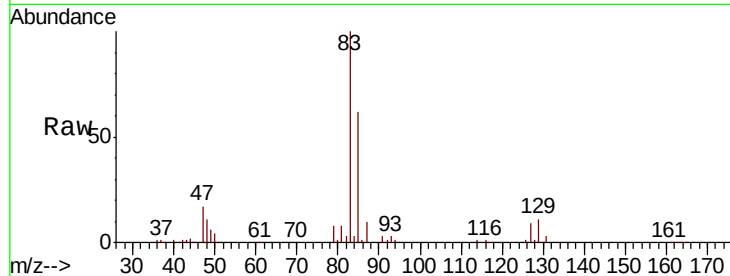
ClientSampled :

VSTDCCC020

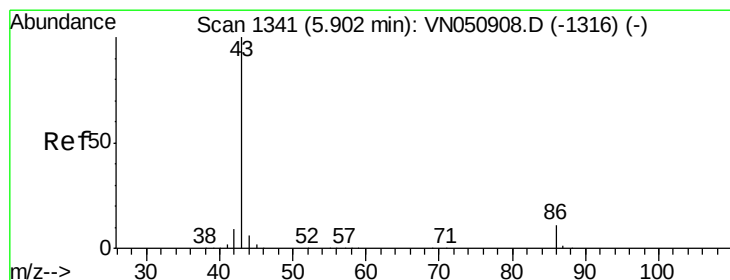
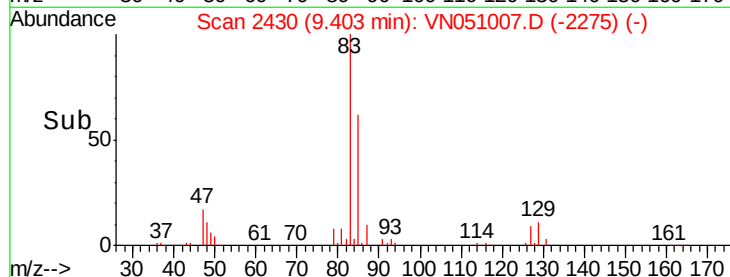
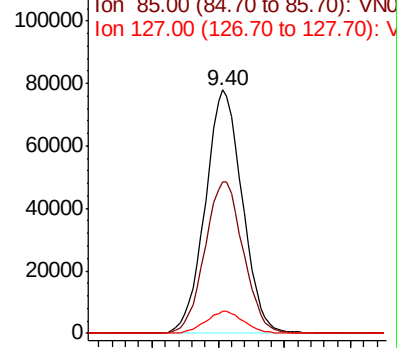
Tot Ion:	83	Resp:	151049
Ion	Ratio	Lower	Upper
83	100		
85	62.3	50.6	76.0
127	8.9	7.1	10.7

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:12 PM



Abundance Ion 83.00 (82.70 to 83.70): VN051007.D (-2275) (-)



#42

Vinyl Acetate

Concen: 75.91 ug/l

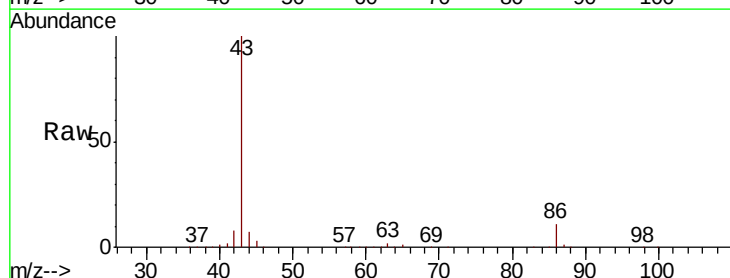
RT: 5.90 min Scan# 1341

Delta R.T. -0.00 min

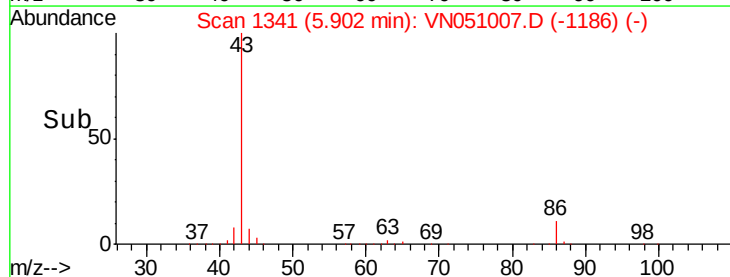
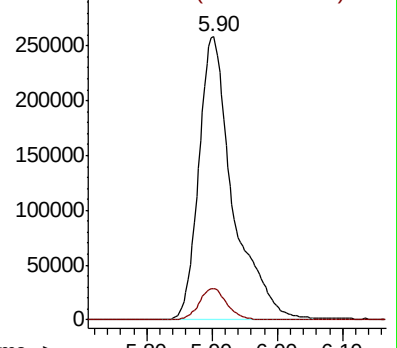
Lab File: VN051007.D

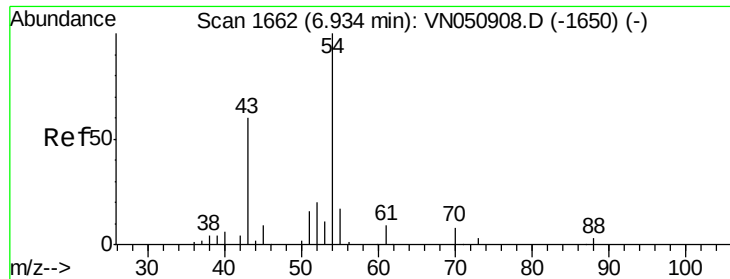
Acq: 4 Sep 2018 10:02

Tgt Ion:	43	Resp:	936567
Ion	Ratio	Lower	Upper
43	100		
86	9.1	7.2	10.8



Abundance Ion 43.00 (42.70 to 43.70): VN051007.D (-1186) (-)





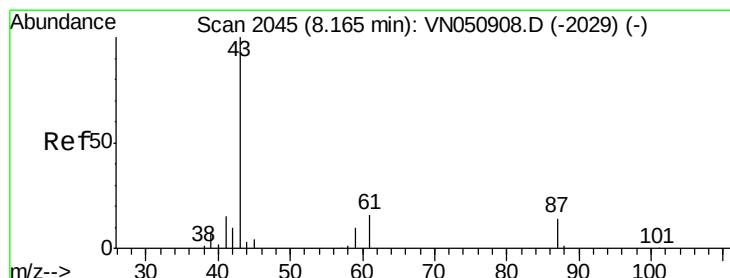
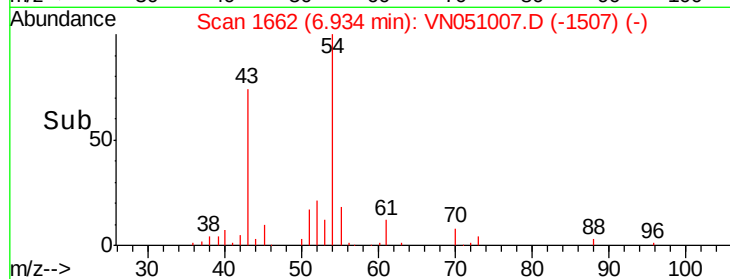
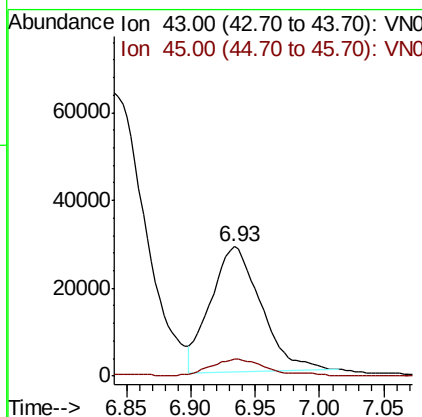
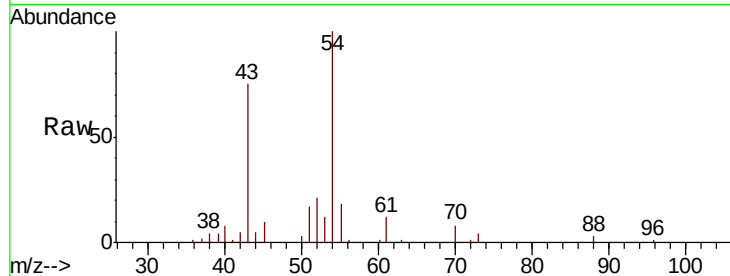
#43
Ethyl Acetate
Concen: 14.06 ug/l
RT: 6.93 min Scan# 1662
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion: 43 Resp: 77172
Ion Ratio Lower Upper
43 100
45 14.3 10.2 15.2

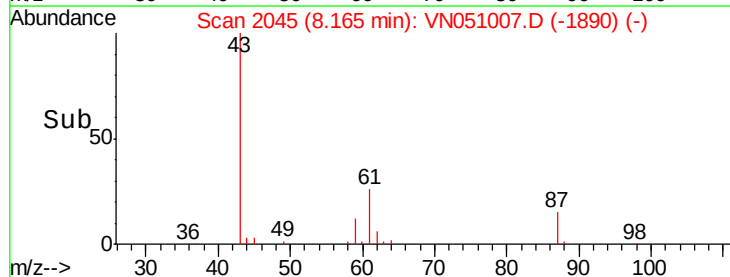
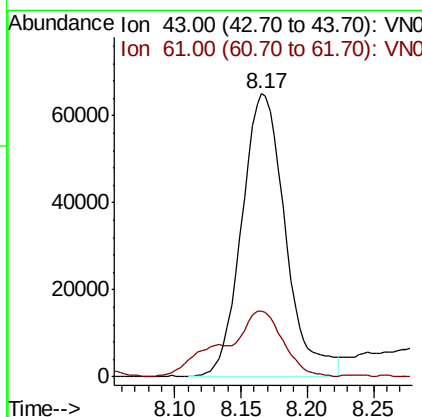
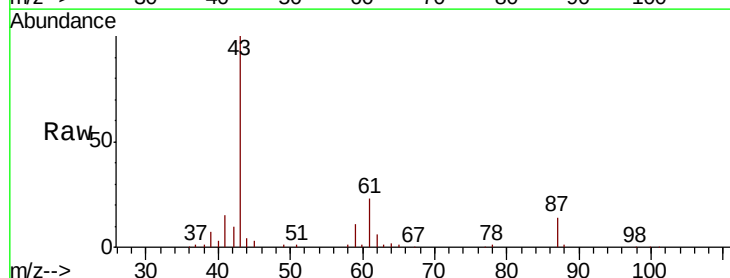
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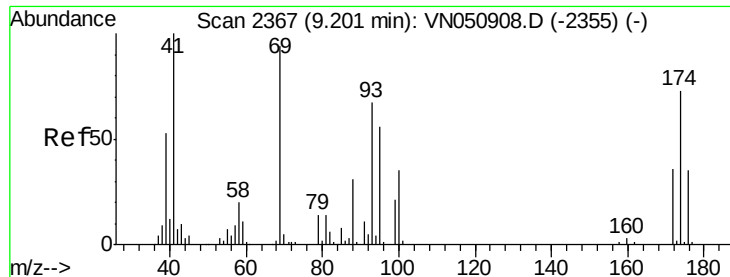
MMDadoda
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#44
Isopropyl Acetate
Concen: 15.29 ug/l
RT: 8.17 min Scan# 2045
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion: 43 Resp: 148062
Ion Ratio Lower Upper
43 100
61 21.6 16.3 24.5





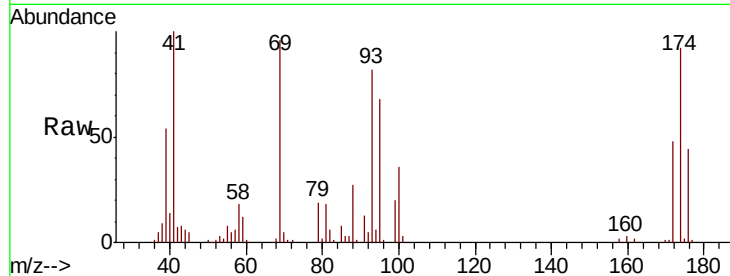
#45
 1,4-Dioxane
 Concen: 280.14 ug/l
 RT: 9.20 min Scan# 2368
 Delta R.T. 0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

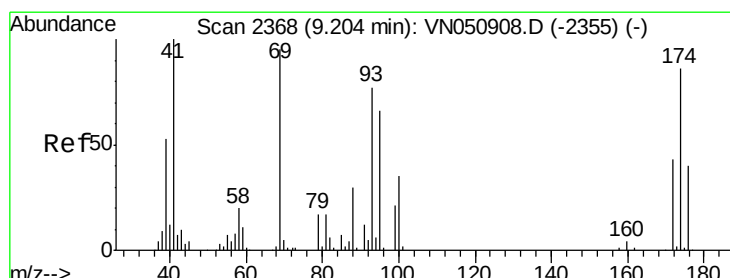
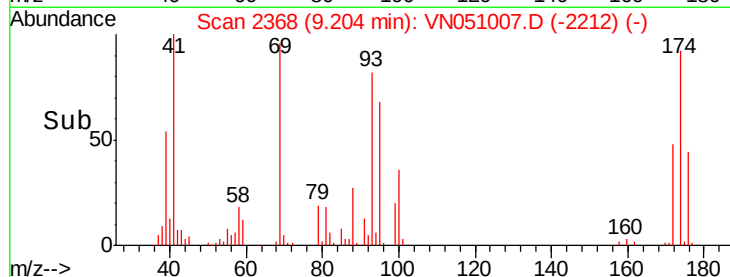
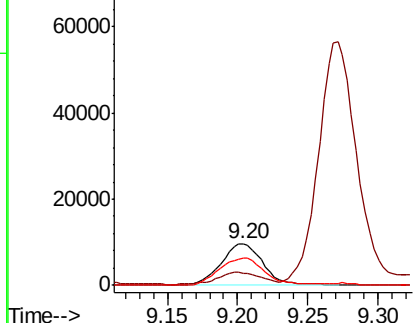
Tot Ion	Ratio	Lower	Upper
88	100		
43	30.3	23.5	35.3
58	69.7	55.2	82.8

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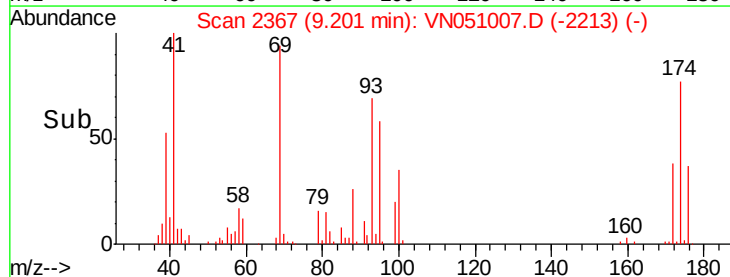
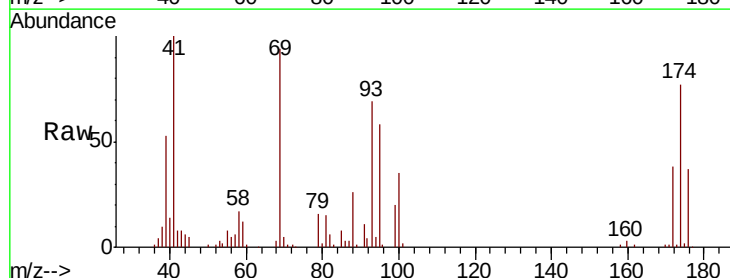
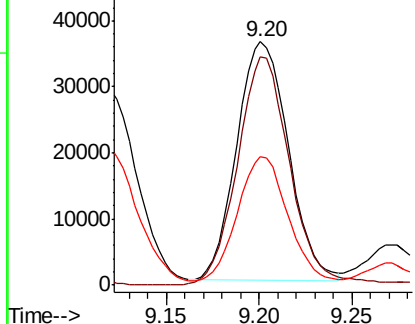
Abundance Ion 88.00 (87.70 to 88.70): VN051007.D (-2212) (-)
 Ion 43.00 (42.70 to 43.70): VN051007.D (-2212) (-)
 Ion 58.00 (57.70 to 58.70): VN051007.D (-2212) (-)

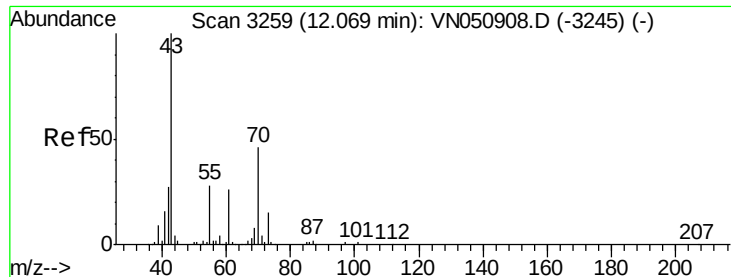


#46
 Methyl methacrylate
 Concen: 14.38 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
41	100		
69	95.4	47.4	142.2
39	52.0	26.6	79.7

Abundance Ion 41.00 (40.70 to 41.70): VN051007.D (-2213) (-)
 Ion 69.00 (68.70 to 69.70): VN051007.D (-2213) (-)
 Ion 39.00 (38.70 to 39.70): VN051007.D (-2213) (-)





#47

n-amyl Acetate

Concen: 12.15 ug/l

RT: 12.07 min Scan# 3259

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 43 Resp: 94571

Ion Ratio Lower Upper

43 100

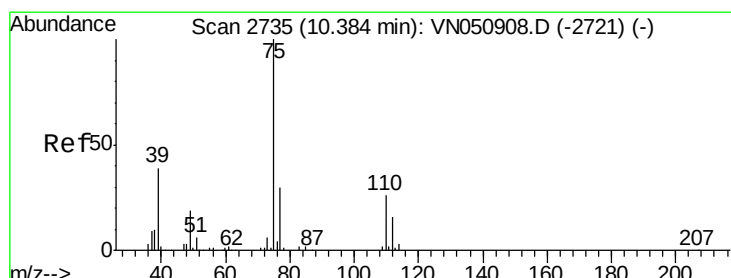
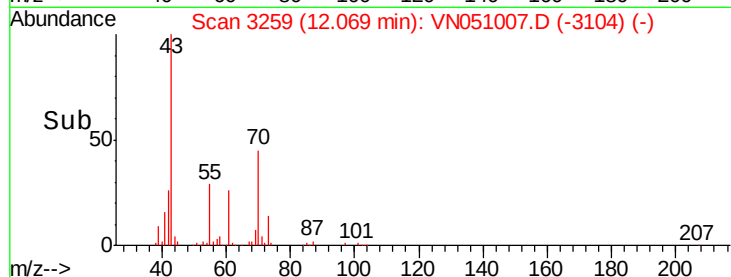
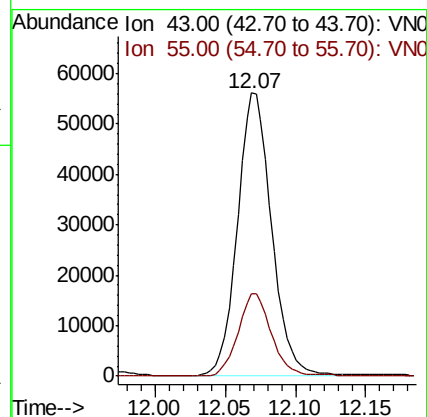
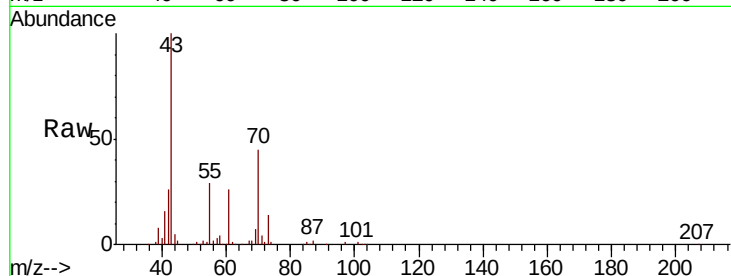
55 28.6 23.0 34.4

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#48

t-1,3-Dichloropropene

Concen: 16.03 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. -0.00 min

Lab File: VN051007.D

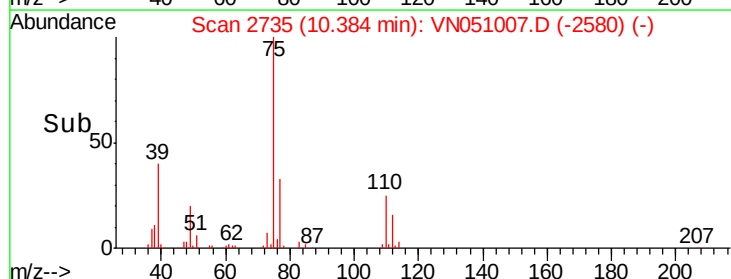
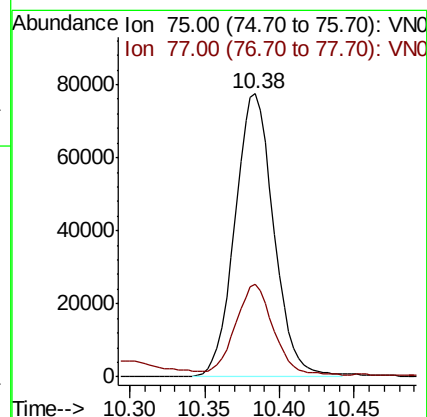
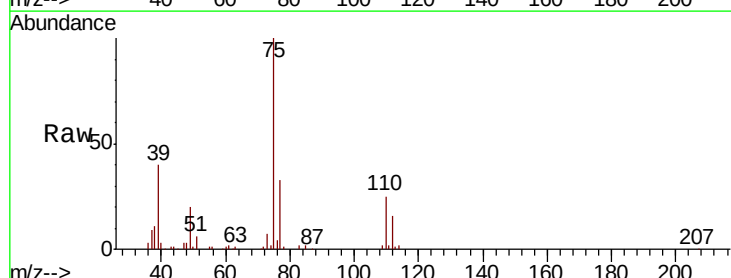
Acq: 4 Sep 2018 10:02

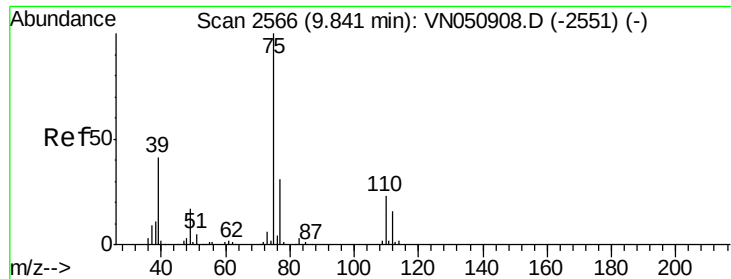
Tgt Ion: 75 Resp: 140413

Ion Ratio Lower Upper

75 100

77 31.9 24.8 37.2





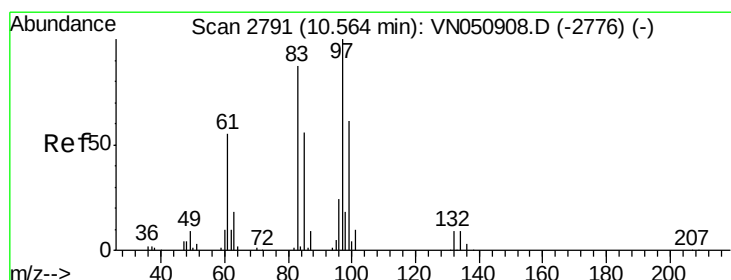
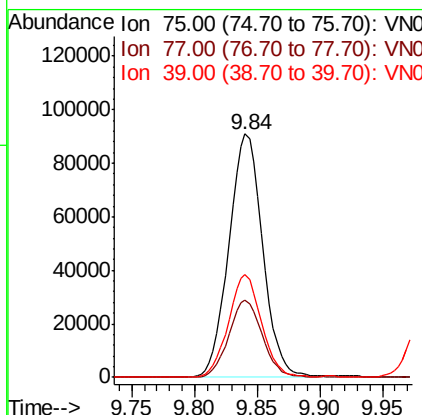
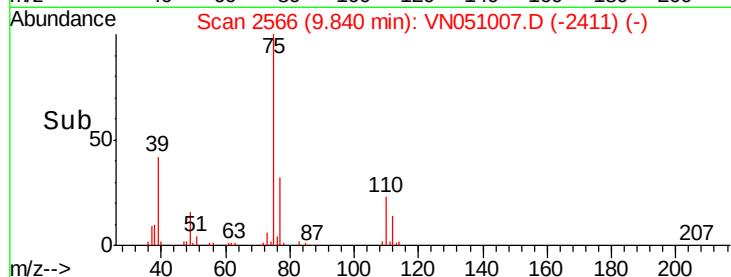
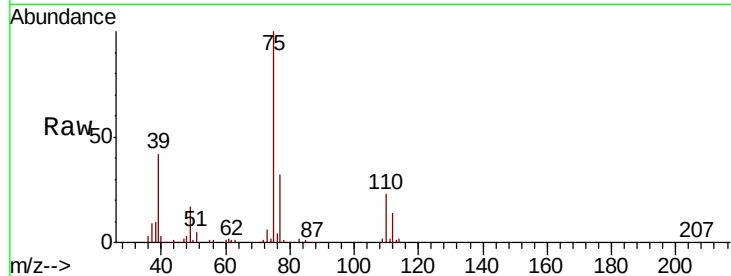
#49
 cis-1,3-Dichloropropene
 Concen: 16.99 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.0	37.4
39	42.3	32.9	49.3

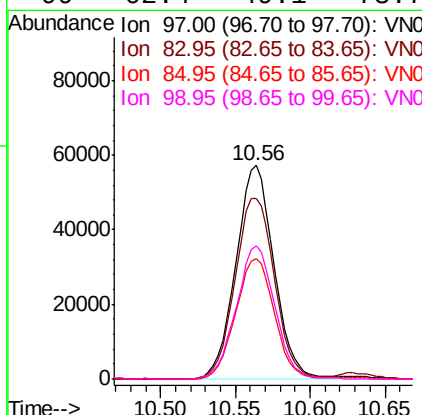
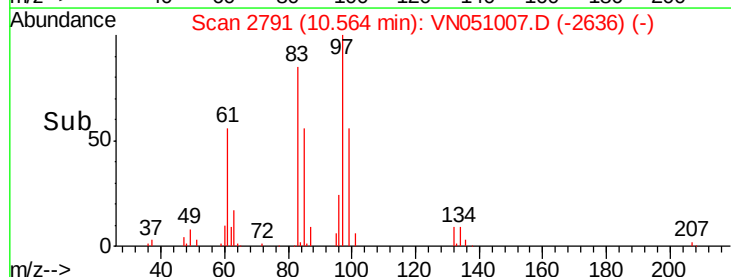
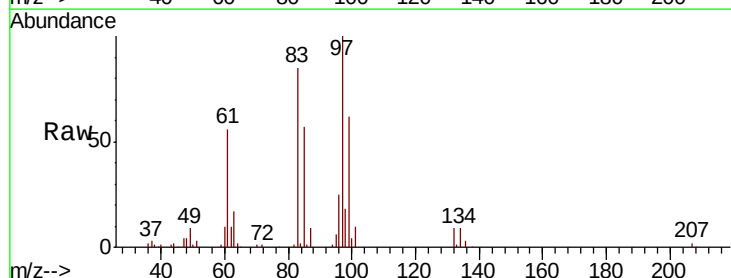
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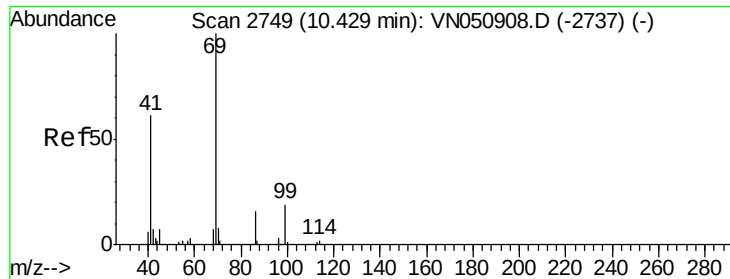
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#50
 1,1,2-Trichloroethane
 Concen: 16.47 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
97	100		
83	84.5	69.8	104.6
85	56.6	45.0	67.6
99	62.4	49.1	73.7





#51

Ethyl methacrylate

Concen: 14.17 ug/l

RT: 10.43 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

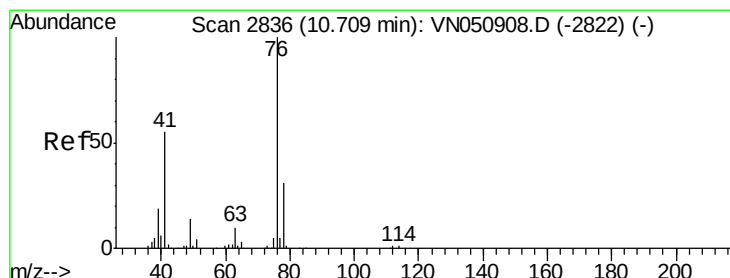
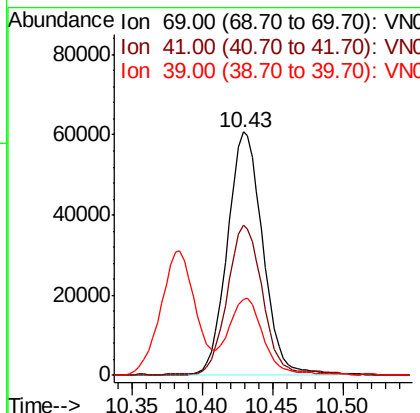
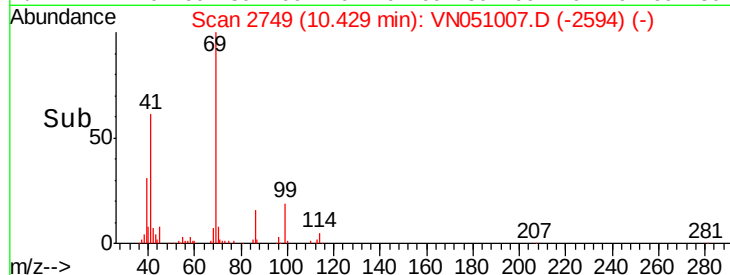
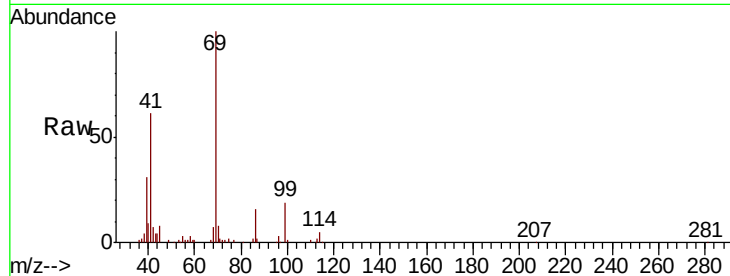
ClientSampled :

VSTDCCC020

Tot Ion:	69	Resp:	106745
Ion	Ratio	Lower	Upper
69	100		
41	60.9	30.5	91.5
39	30.7	15.3	45.8

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#52

1,3-Dichloropropane

Concen: 16.39 ug/l

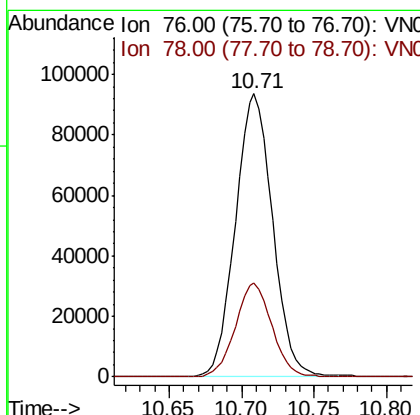
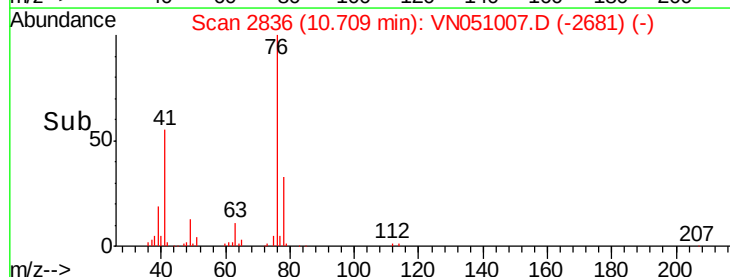
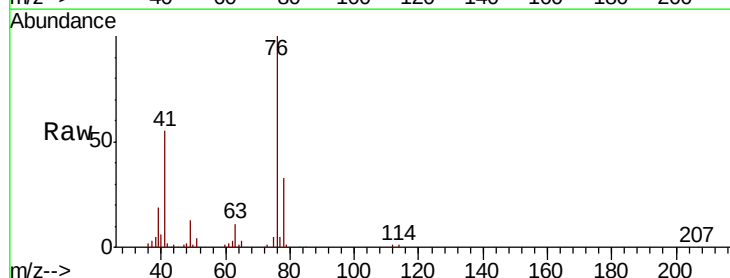
RT: 10.71 min Scan# 2836

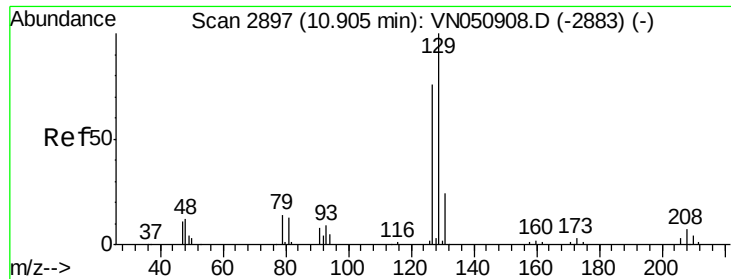
Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Tgt Ion:	76	Resp:	167135
Ion	Ratio	Lower	Upper
76	100		
78	32.3	0.0	63.4





#53

Dibromochloromethane

Concen: 16.02 ug/l

RT: 10.90 min Scan# 2897

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion:129 Resp: 112144

Ion Ratio Lower Upper

129 100

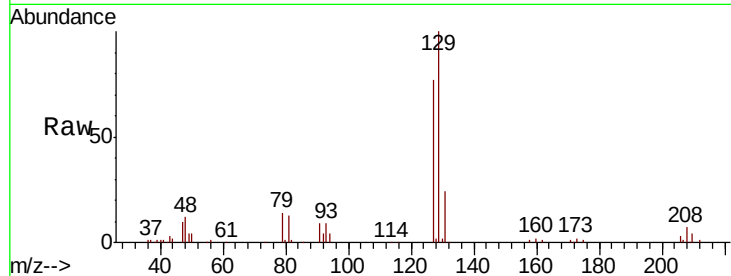
127 78.8 39.0 116.9

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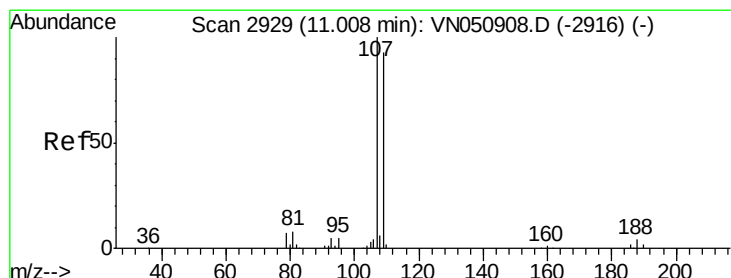
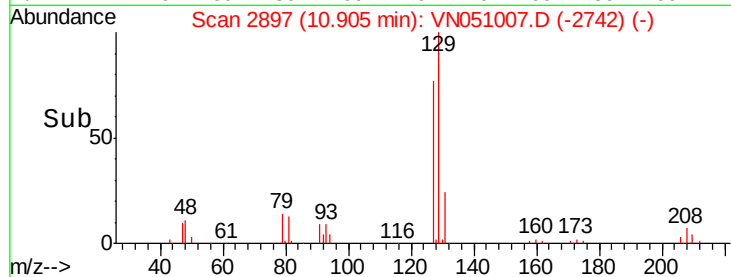
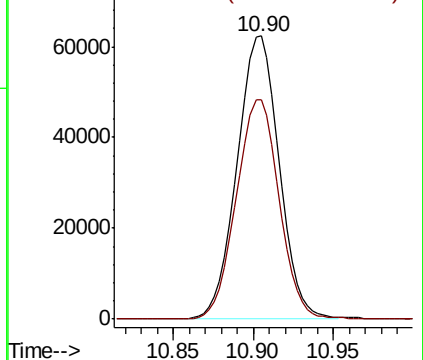
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Abundance Ion 129.00 (128.70 to 129.70): V

Ion 127.00 (126.70 to 127.70): V



#54

1,2-Dibromoethane

Concen: 15.46 ug/l

RT: 11.01 min Scan# 2929

Delta R.T. -0.00 min

Lab File: VN051007.D

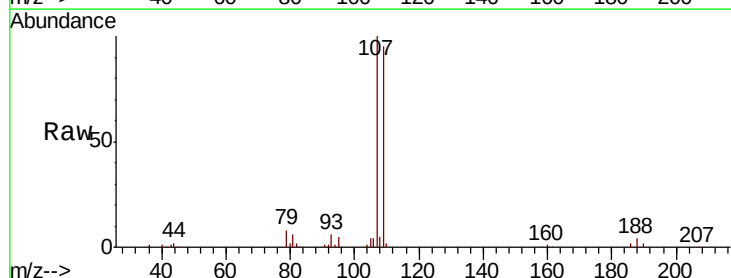
Acq: 4 Sep 2018 10:02

Tgt Ion:107 Resp: 94159

Ion Ratio Lower Upper

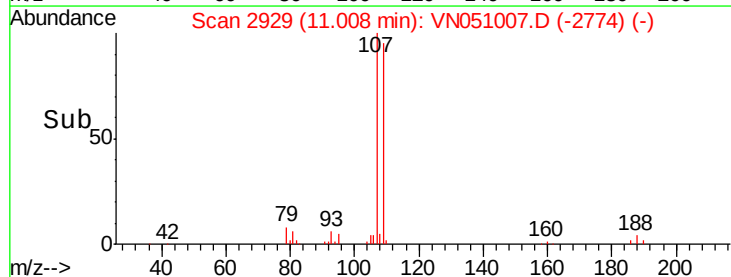
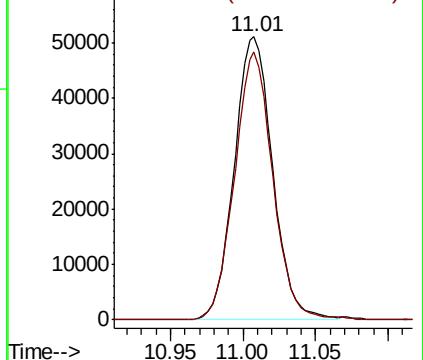
107 100

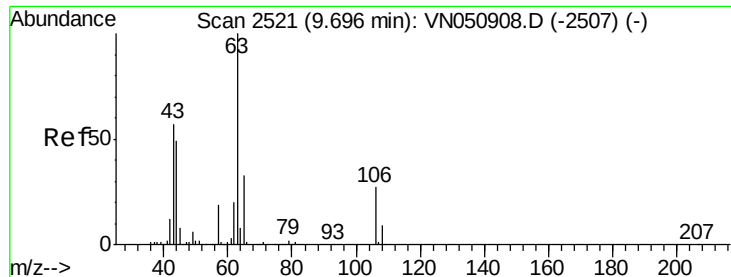
109 94.1 74.4 111.6



Abundance Ion 107.00 (106.70 to 107.70): V

Ion 109.00 (108.70 to 109.70): V





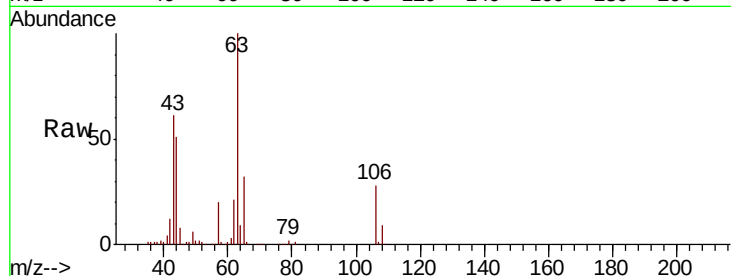
#55
2-Chloroethyl vinyl ether
Concen: 82.37 ug/l
RT: 9.70 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
63	100		
65	31.7	25.4	38.2
106	27.6	22.0	33.0

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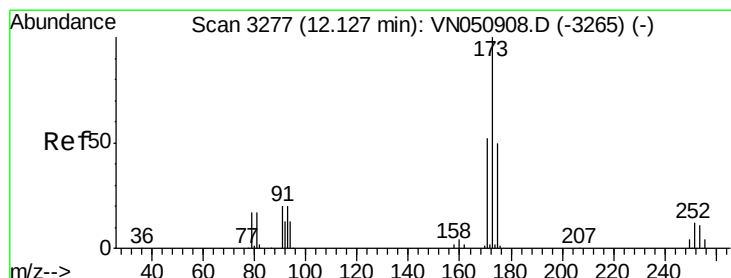
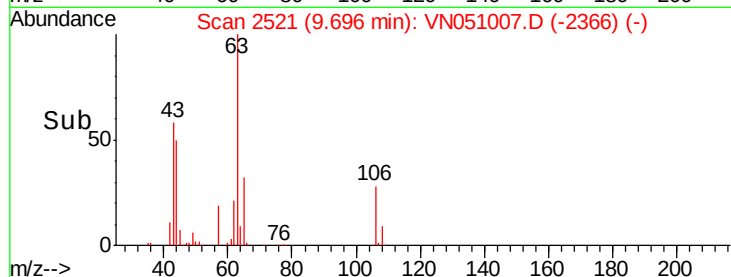
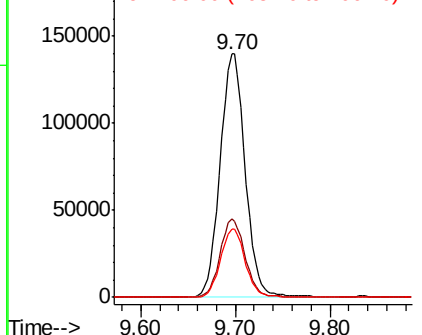


Abundance

Ion 63.00 (62.70 to 63.70): VN050908.D (-2507) (-)

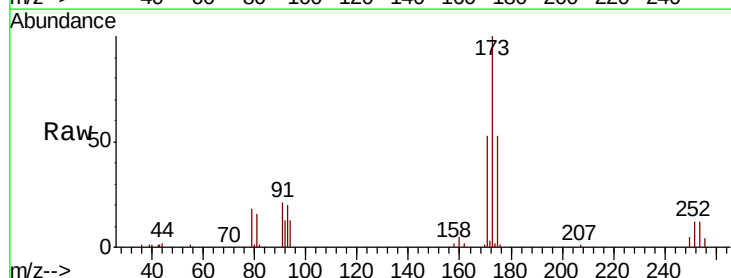
Ion 65.00 (64.70 to 65.70): VN050908.D (-2507) (-)

Ion 106.00 (105.70 to 106.70): VN050908.D (-2507) (-)



#56
Bromoform
Concen: 14.74 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
173	100		
175	49.8	39.2	58.8
254	12.1	9.0	13.6

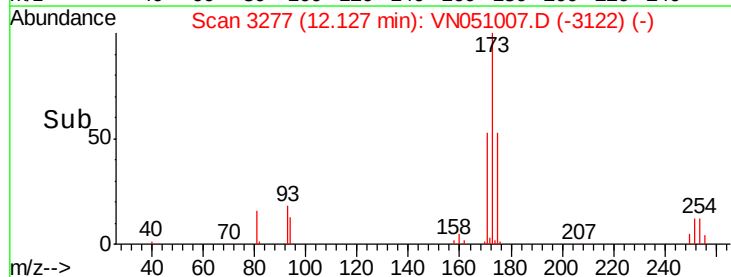
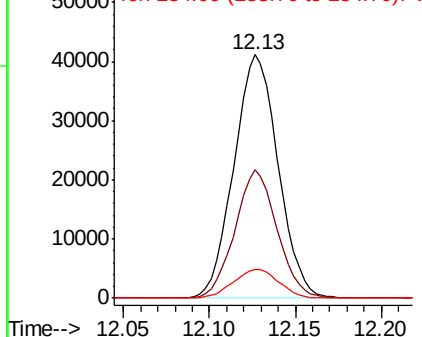


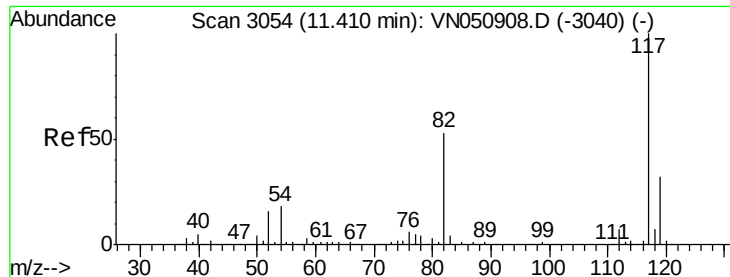
Abundance

Ion 173.00 (172.70 to 173.70): VN050908.D (-3265) (-)

Ion 175.00 (174.70 to 175.70): VN050908.D (-3265) (-)

Ion 254.00 (253.70 to 254.70): VN050908.D (-3265) (-)





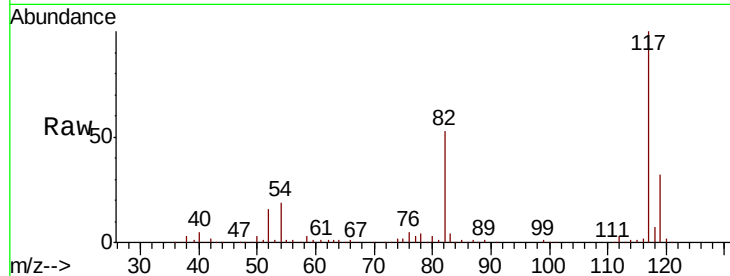
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

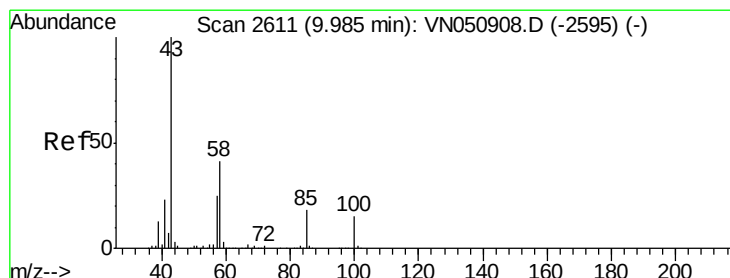
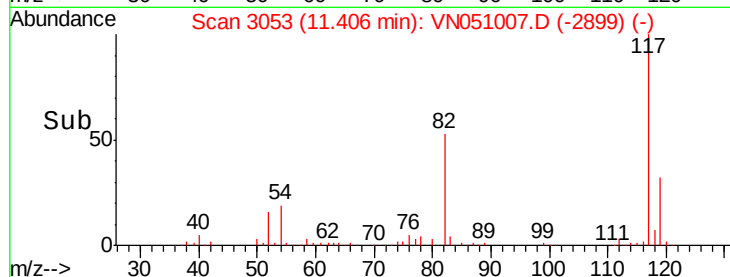
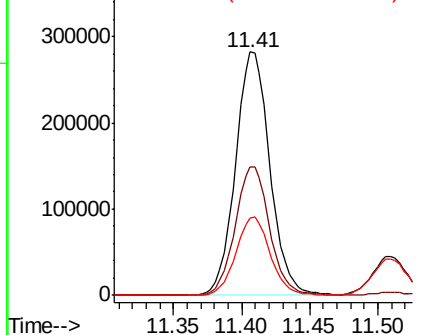
Tot Ion	Ratio	Lower	Upper
117	100		
82	52.8	42.6	64.0
119	32.2	25.7	38.5

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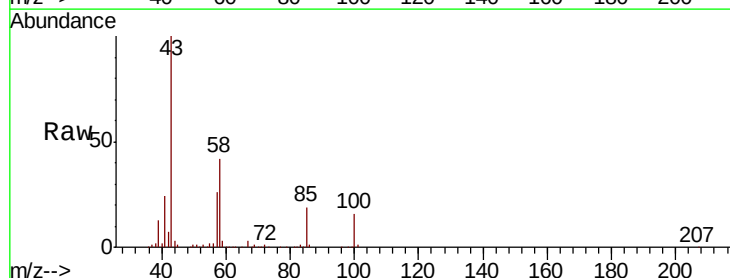


Abundance Ion 117.00 (116.70 to 117.70): V
Ion 82.00 (81.70 to 82.70): VNO
Ion 119.00 (118.70 to 119.70): V

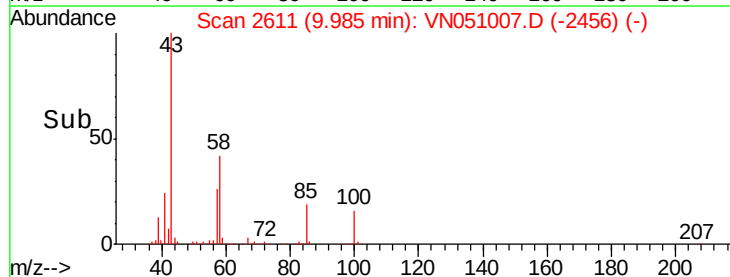
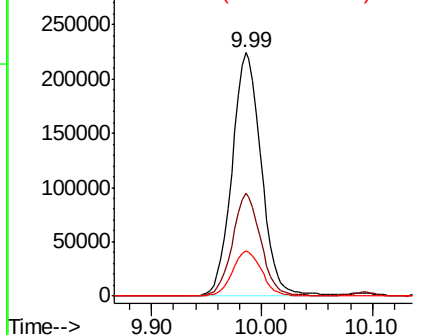


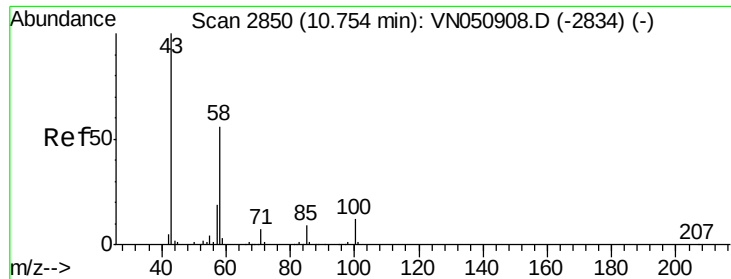
#58
4-Methyl-2-Pentanone
Concen: 72.62 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
43	100		
58	41.1	32.3	48.5
85	18.6	14.9	22.3



Abundance Ion 43.00 (42.70 to 43.70): VNO
Ion 58.00 (57.70 to 58.70): VNO
Ion 85.00 (84.70 to 85.70): VNO





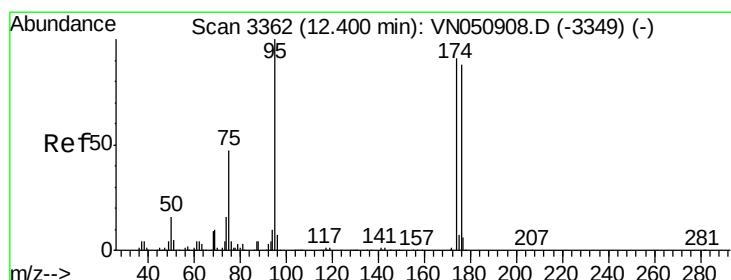
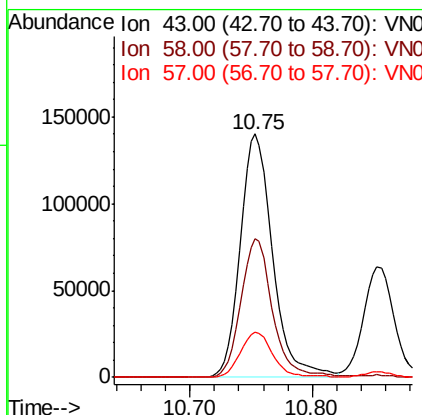
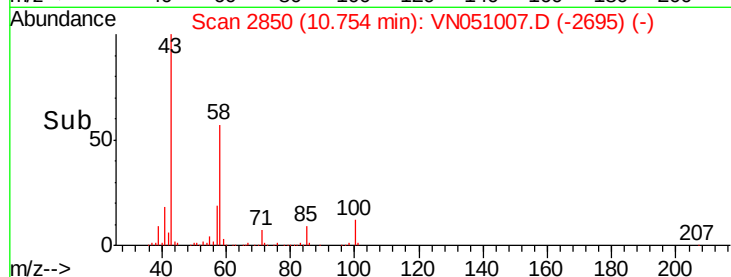
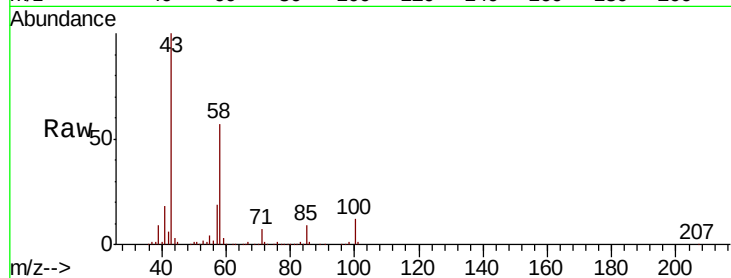
#59
2-Hexanone
Concen: 68.88 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	55.9	45.5	68.3
57	18.8	15.2	22.8

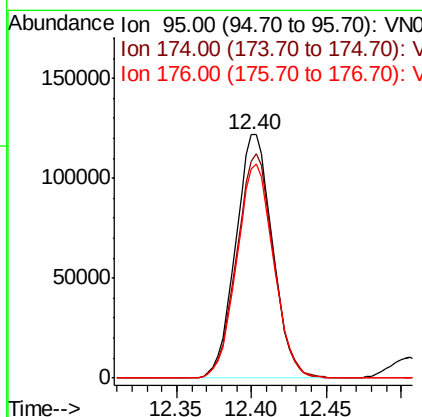
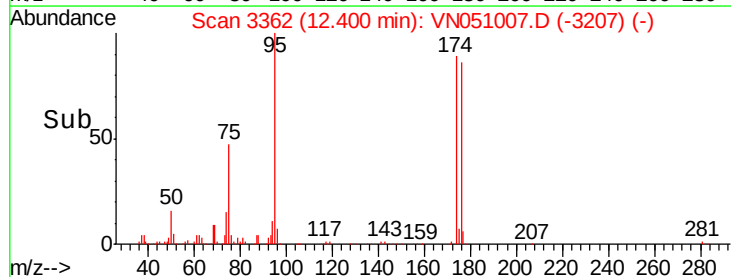
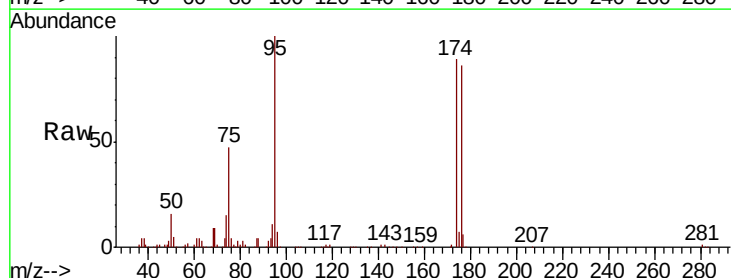
Manual Integrations
APPROVED

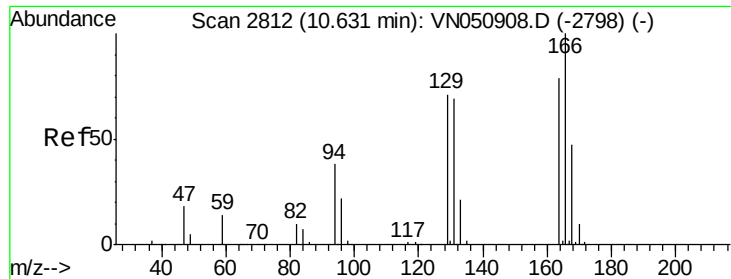
MMDadoda
9/5/2018 12:00:12 PM



#60
4-Bromofluorobenzene
Concen: 28.41 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
95	100		
174	92.0	74.6	112.0
176	88.0	71.5	107.3





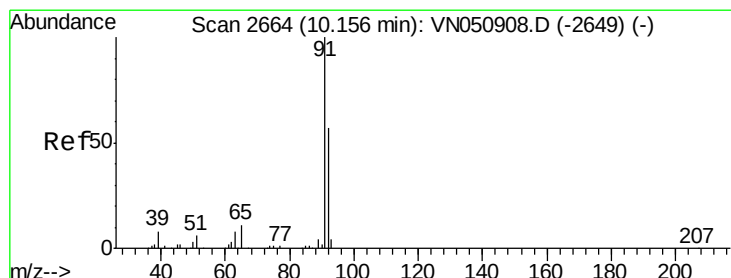
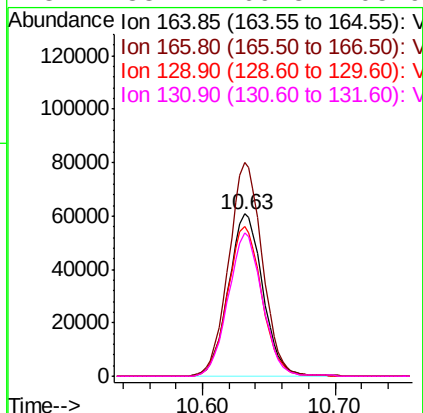
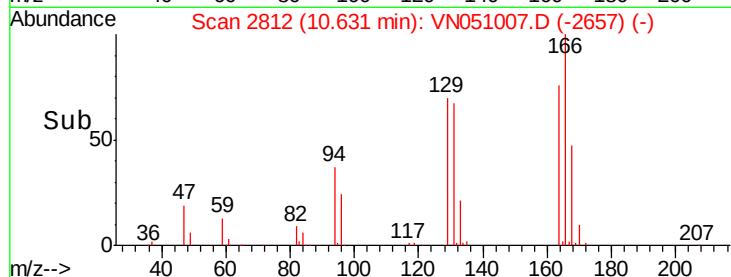
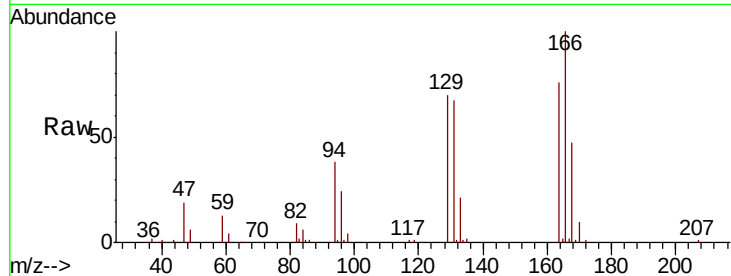
#61
Tetrachloroethene
Concen: 17.77 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
164	100		
166	131.7	100.6	151.0
129	92.2	71.0	106.6
131	88.1	69.3	103.9

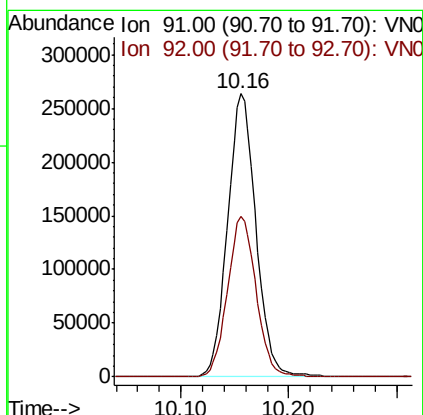
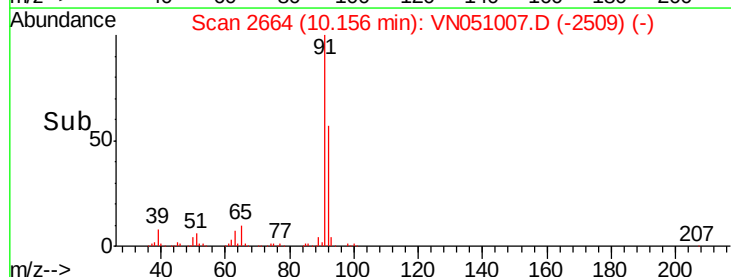
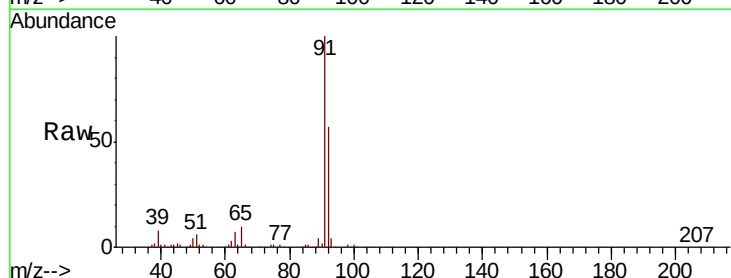
Manual Integrations
APPROVED

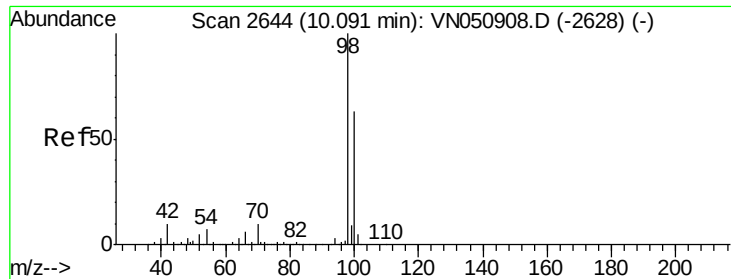
MMDadoda
9/5/2018 12:00:12 PM



#62
Toluene
Concen: 17.49 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
91	100		
92	57.4	45.8	68.8





#63

Toluene-d8

Concen: 31.16 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 98 Resp: 719200

Ion Ratio Lower Upper

98 100

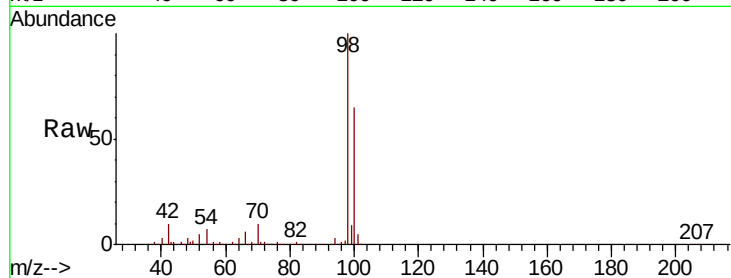
100 64.1 50.6 75.8

Manual Integrations

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9/5/2018 12:00:12 PM



Abundance Ion 98.00 (97.70 to 98.70): VN050908.D (-2628) (-)

Ion 100.00 (99.70 to 100.70): VN051007.D (-2489) (-)

10.09

400000

300000

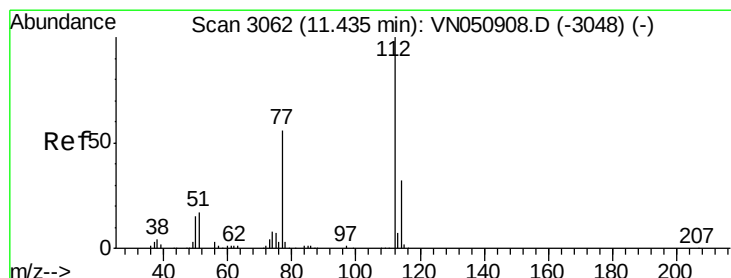
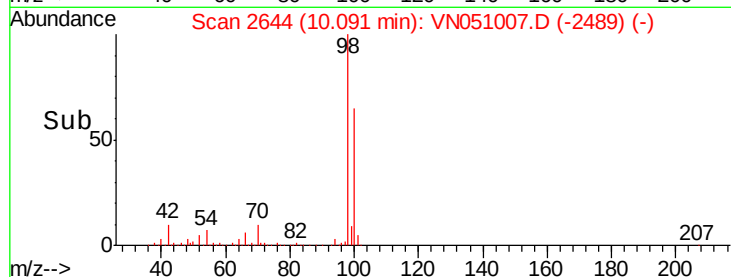
200000

100000

0

10.00 10.10 10.20

Time-->



#64

Chlorobenzene

Concen: 16.90 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN051007.D

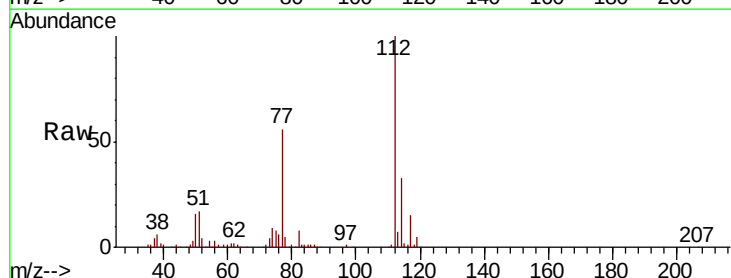
Acq: 4 Sep 2018 10:02

Tgt Ion: 112 Resp: 289168

Ion Ratio Lower Upper

112 100

114 33.2 25.5 38.3



Abundance Ion 112.00 (111.70 to 112.70): VN050908.D (-3048) (-)

Ion 114.00 (113.70 to 114.70): VN051007.D (-2907) (-)

11.44

150000

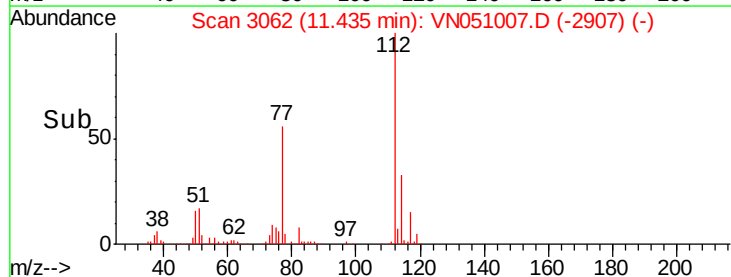
100000

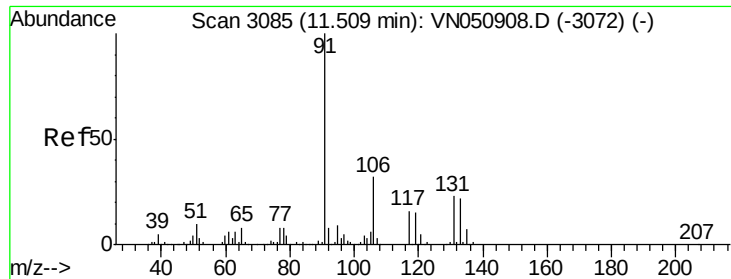
50000

0

11.40 11.50

Time-->





#65

1,1,1,2-Tetrachloroethane

Concen: 18.20 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

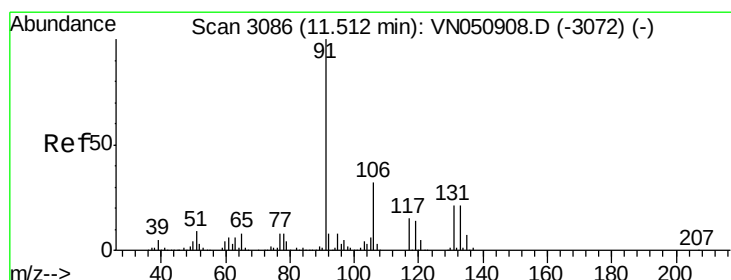
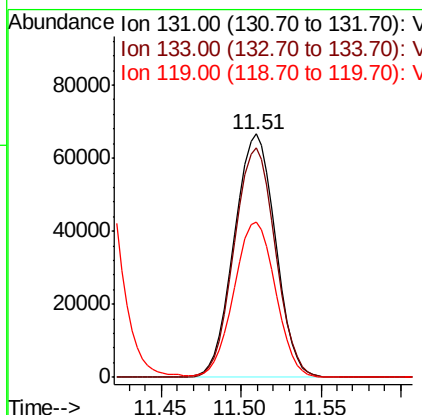
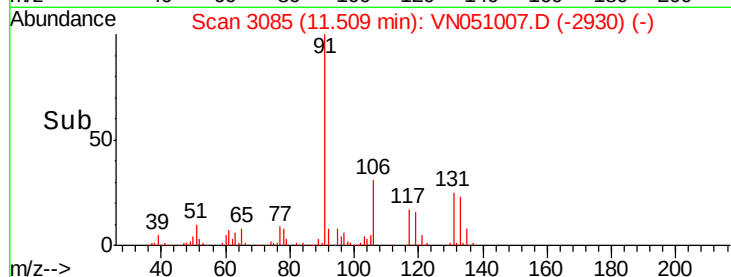
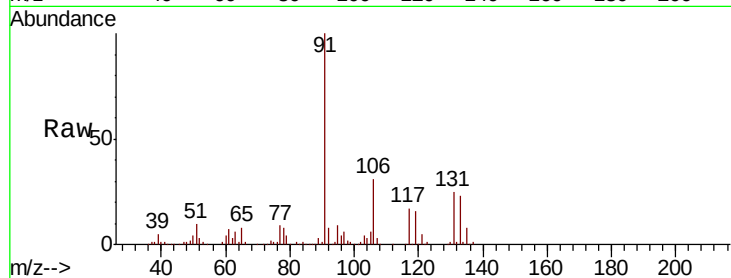
ClientSampled :

VSTDCCC020

Tot Ion:	131	Resp:	117582
Ion Ratio	Lower	Upper	
131	100		
133	94.2	0.0	189.4
119	64.1	0.0	132.2

Manual Integrations
APPROVED

MMDadoda
9/5/2018 12:00:12 PM



#66

Ethyl Benzene

Concen: 16.37 ug/l

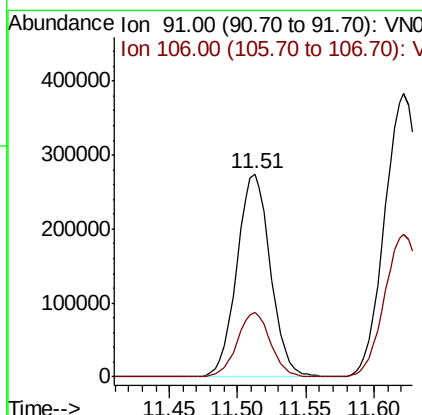
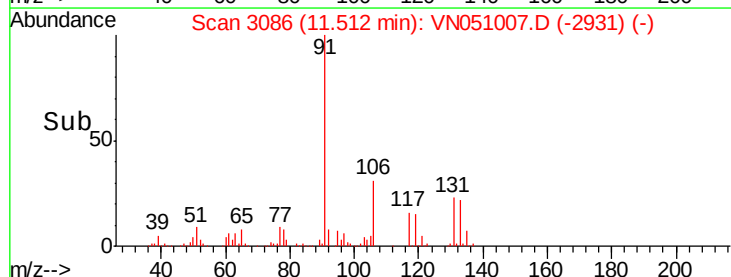
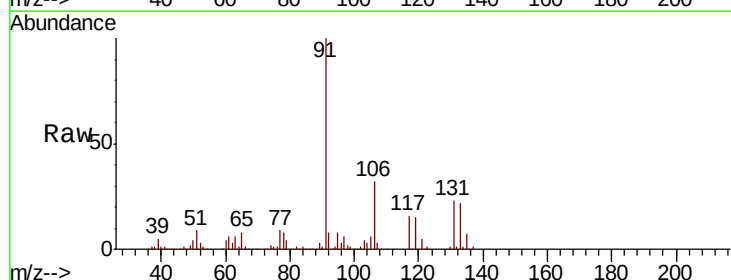
RT: 11.51 min Scan# 3086

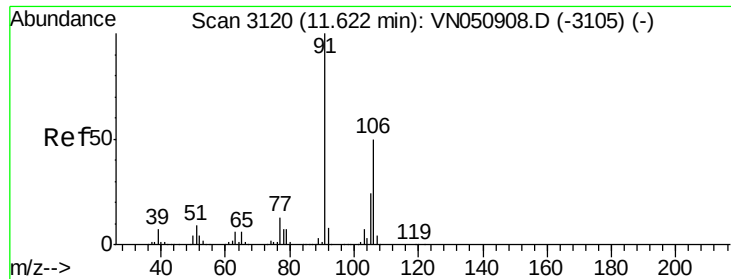
Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Tgt Ion:	91	Resp:	468206
Ion Ratio	Lower	Upper	
91	100		
106	31.6	25.7	38.5





#67

m/p-Xylenes

Concen: 33.65 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion:106 Resp: 370273

Ion Ratio Lower Upper

106 100

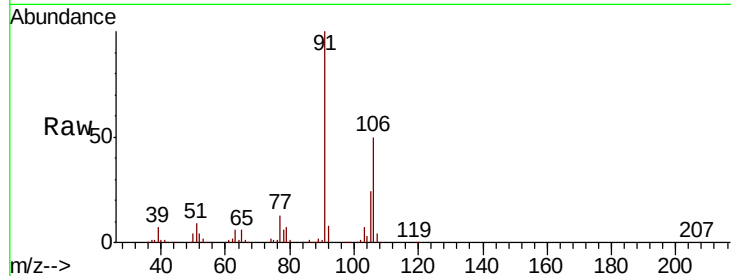
91 197.5 160.6 241.0

Manual Integrations

APPROVED

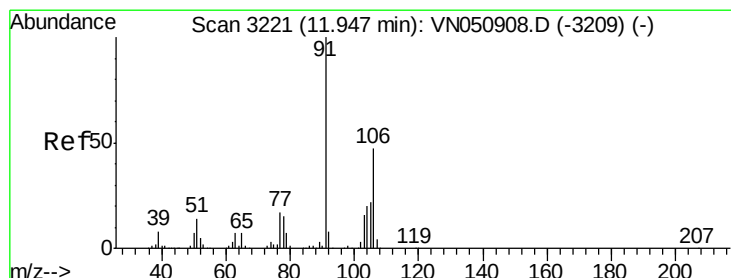
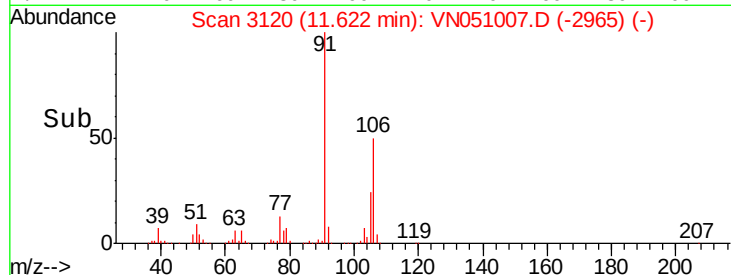
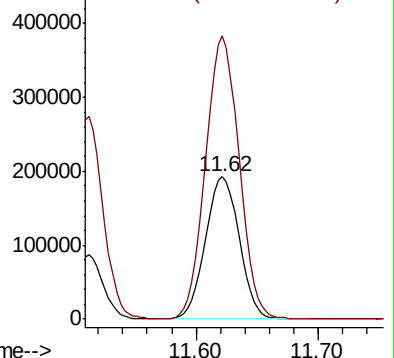
MMDadoda

9/5/2018 12:00:12 PM



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 16.93 ug/l

RT: 11.95 min Scan# 3221

Delta R.T. -0.00 min

Lab File: VN051007.D

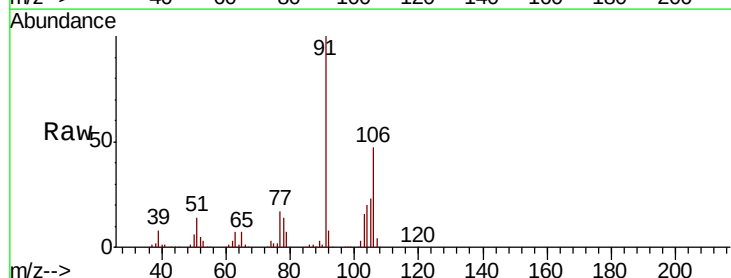
Acq: 4 Sep 2018 10:02

Tgt Ion:106 Resp: 177975

Ion Ratio Lower Upper

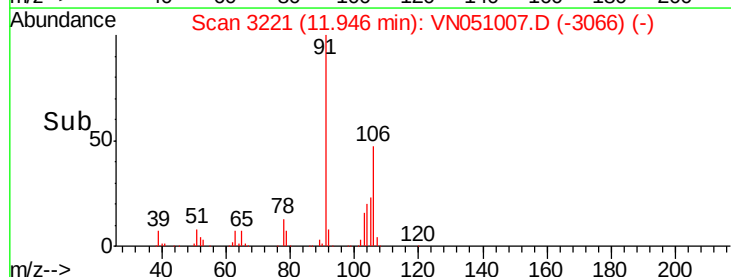
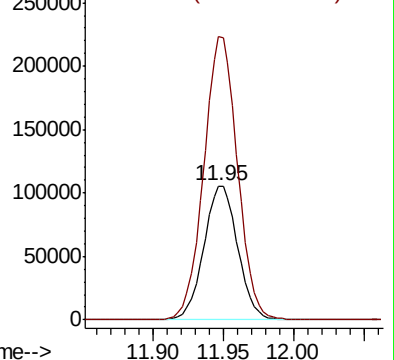
106 100

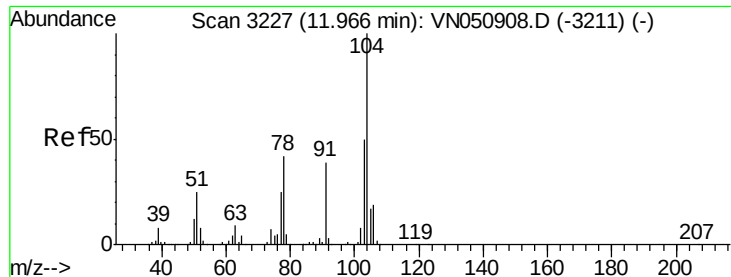
91 209.8 106.4 319.2



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





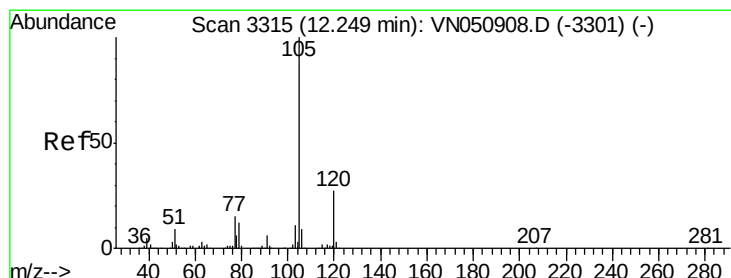
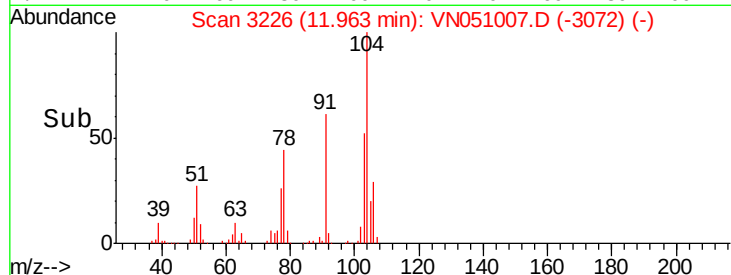
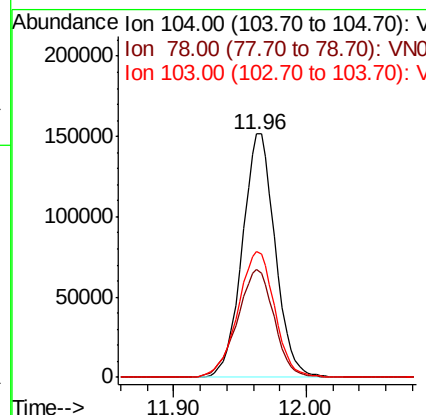
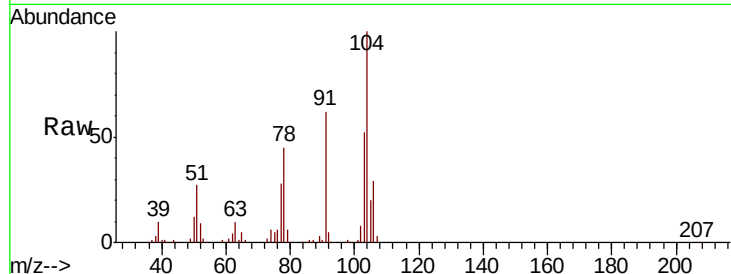
#69
Stvrene
Concen: 15.62 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.7	38.6	58.0
103	57.6	45.4	68.2

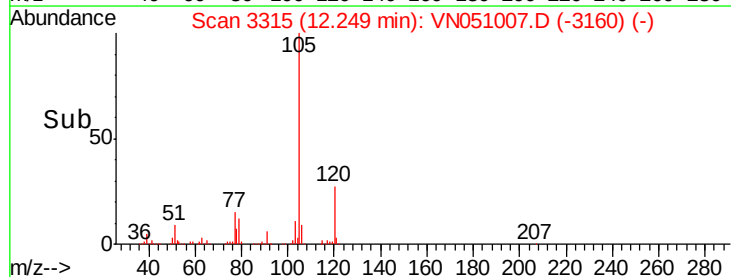
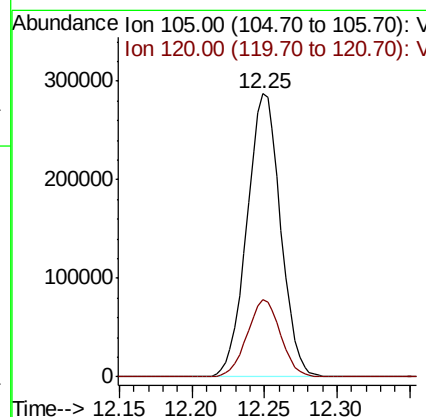
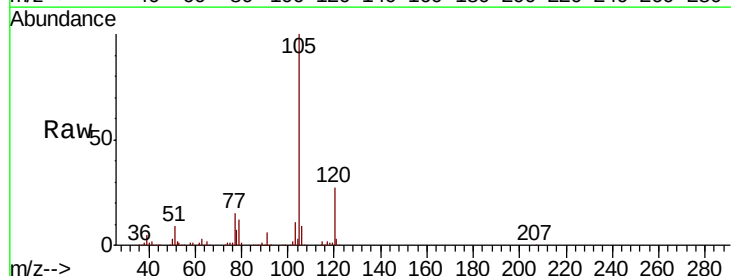
Manual Integrations
APPROVED

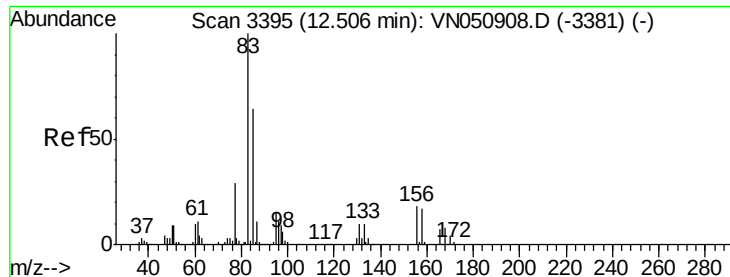
MMDadoda
9/5/2018 12:00:12 PM



#70
Isopropylbenzene
Concen: 16.59 ug/l
RT: 12.25 min Scan# 3315
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
105	100		
120	27.1	18.6	34.6





#71

1,1,2,2-Tetrachloroethane

Concen: 15.66 ug/l

RT: 12.50 min Scan# 3394

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

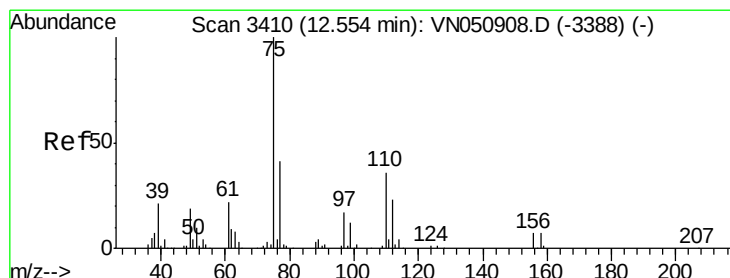
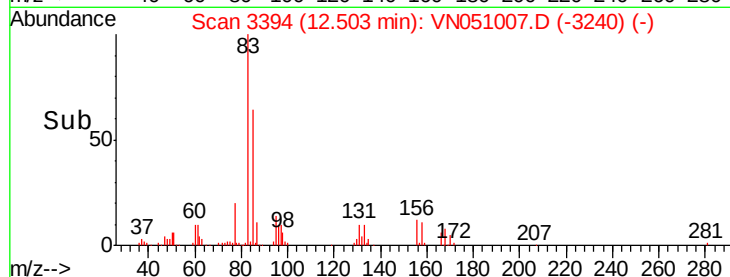
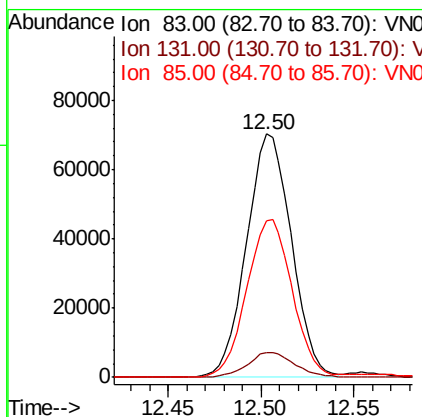
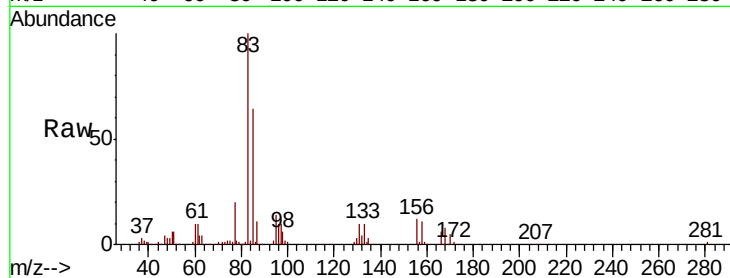
ClientSampled :

VSTDCCC020

Tot Ion:	83	Resp:	118462
Ion Ratio	Lower	Upper	
83	100		
131	10.7	5.3	15.9
85	65.2	32.3	96.9

Manual Integrations
APPROVED

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9/5/2018 12:00:12 PM



#72

1,2,3-Trichloropropane

Concen: 13.52 ug/l m

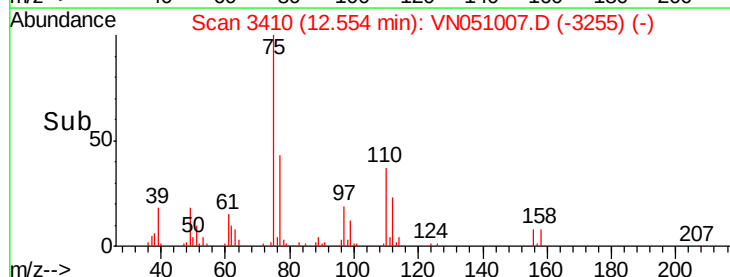
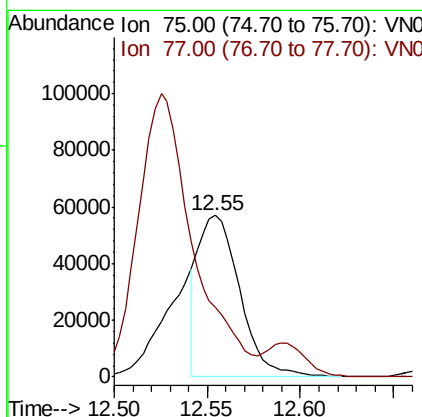
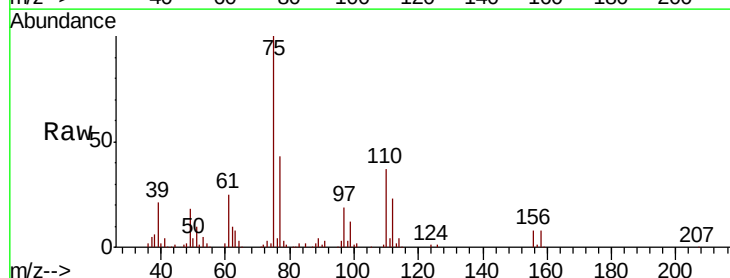
RT: 12.55 min Scan# 3410

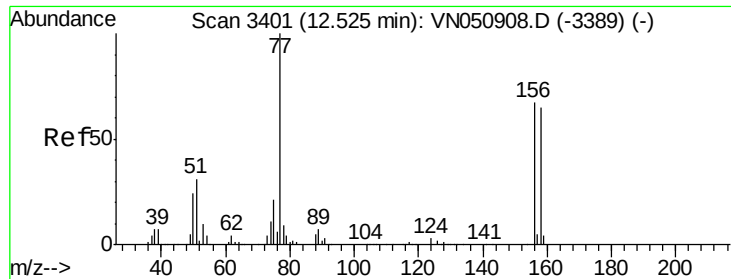
Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Tgt Ion:	75	Resp:	88215
Ion Ratio	Lower	Upper	
75	100		
77	235.2	0.0	301.6





#73

Bromobenzene

Concen: 16.05 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

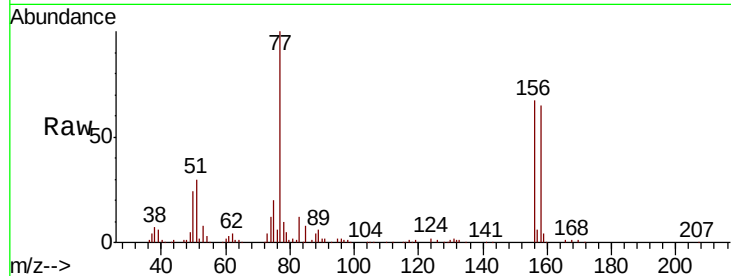
ClientSampled :

VSTDCCC020

Tot Ion	Ratio	Lower	Upper
156	100		
77	175.9	0.0	359.4
158	96.1	0.0	194.6

Manual Integrations
APPROVED

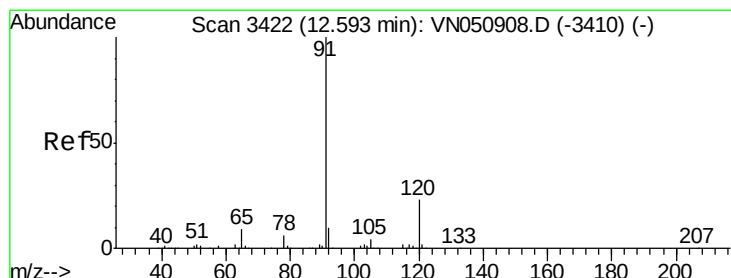
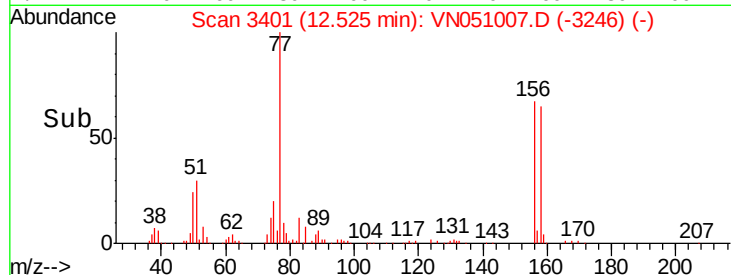
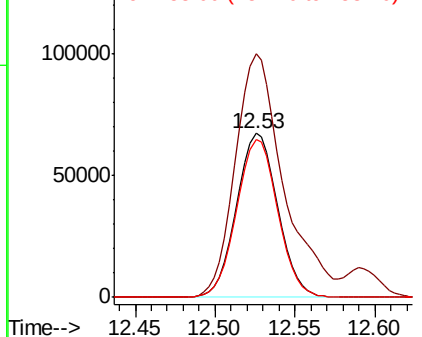
MMDadoda
9/5/2018 12:00:12 PM



Abundance Ion 156.00 (155.70 to 156.70): V

Ion 77.00 (76.70 to 77.70): VN

Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 15.77 ug/l

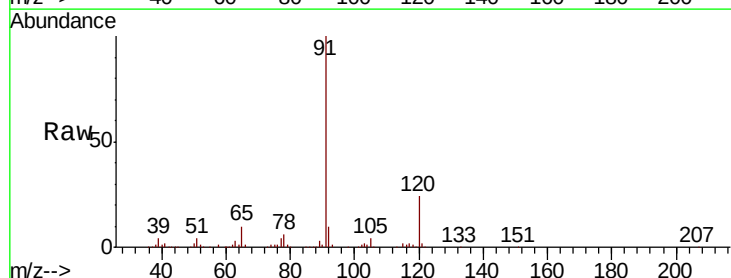
RT: 12.59 min Scan# 3422

Delta R.T. -0.00 min

Lab File: VN051007.D

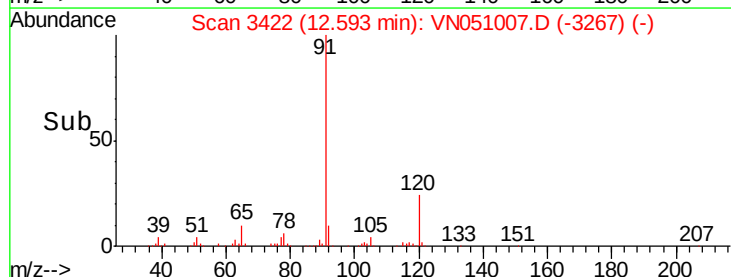
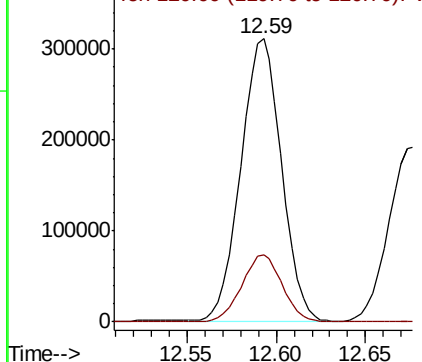
Acq: 4 Sep 2018 10:02

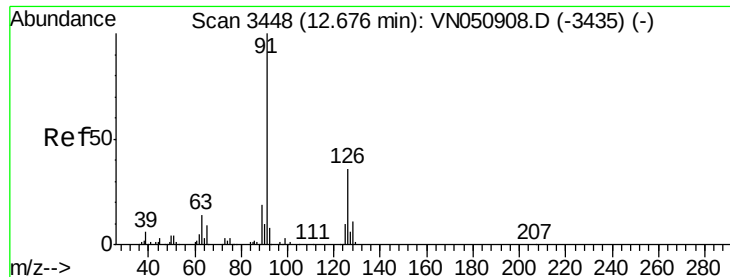
Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.4	0.0	46.0



Abundance Ion 91.00 (90.70 to 91.70): VN

Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 16.53 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion: 91 Resp: 317138

Ion Ratio Lower Upper

91 100

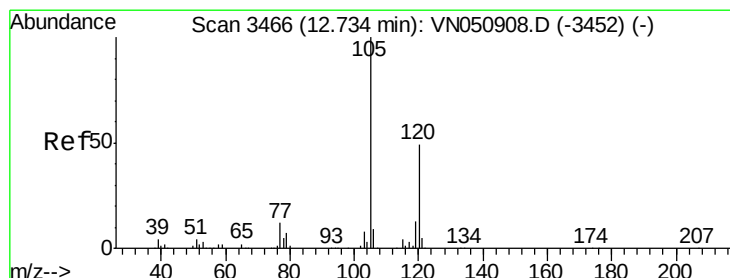
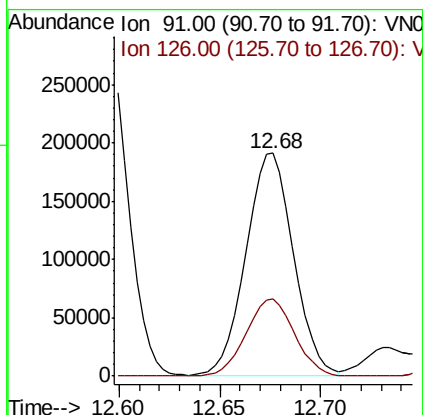
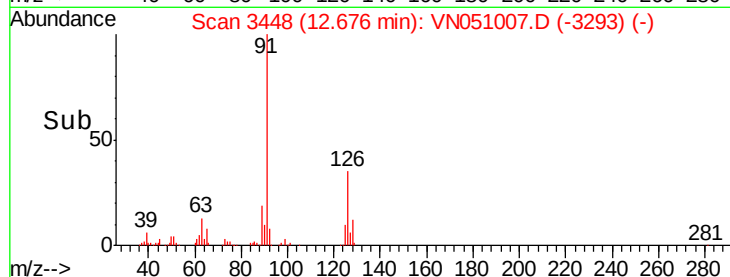
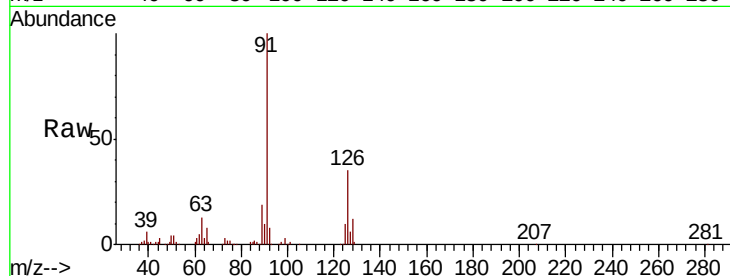
126 35.1 0.0 71.8

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 16.56 ug/l

RT: 12.73 min Scan# 3465

Delta R.T. -0.00 min

Lab File: VN051007.D

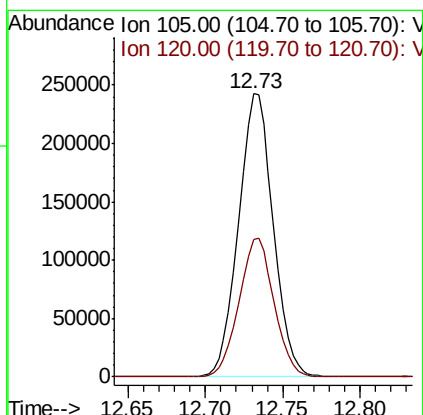
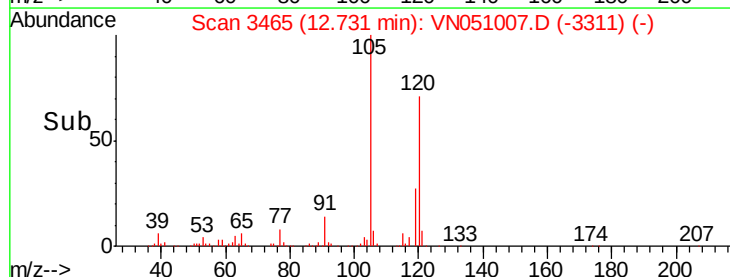
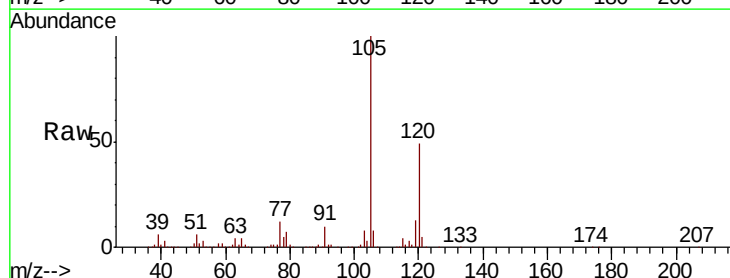
Acq: 4 Sep 2018 10:02

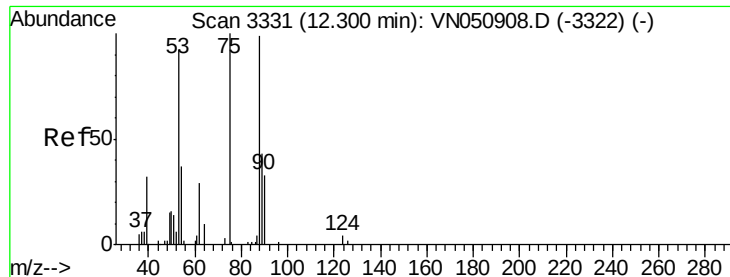
Tgt Ion: 105 Resp: 378142

Ion Ratio Lower Upper

105 100

120 49.4 0.0 99.6





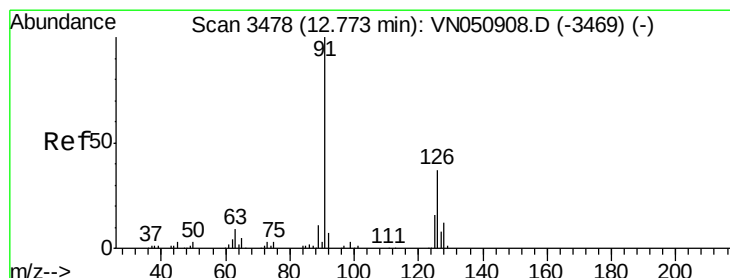
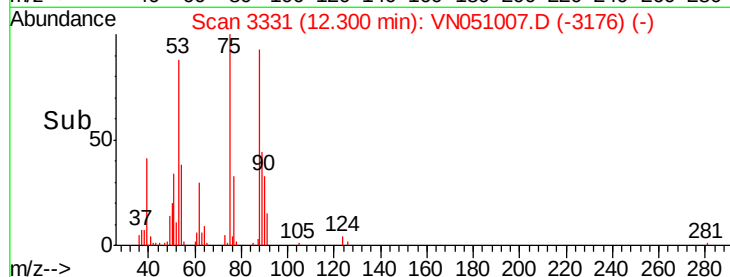
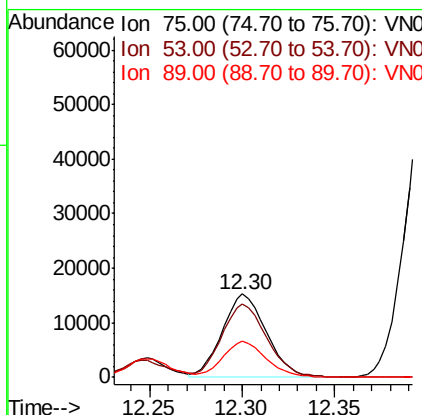
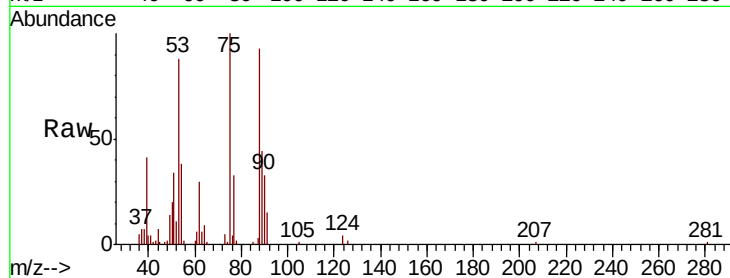
#77
 t-1,4-Dichloro-2-butene
 Concen: 13.64 ug/l
 RT: 12.30 min Scan# 3331
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
75	100		
53	88.1	45.5	136.4
89	43.6	21.9	65.8

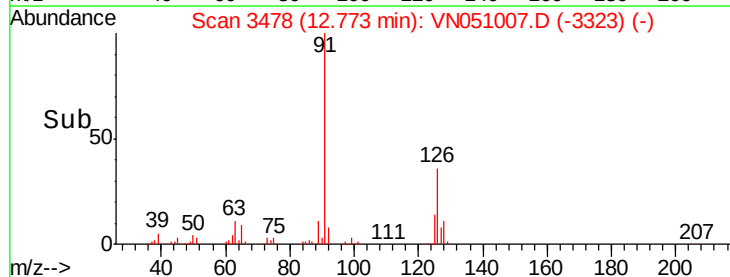
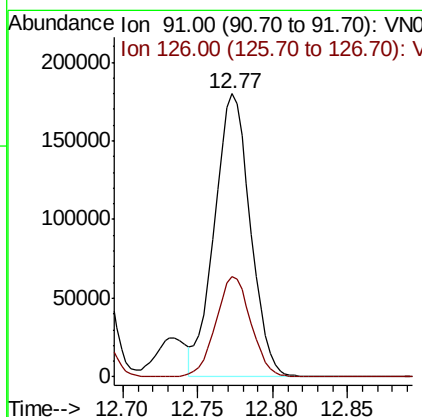
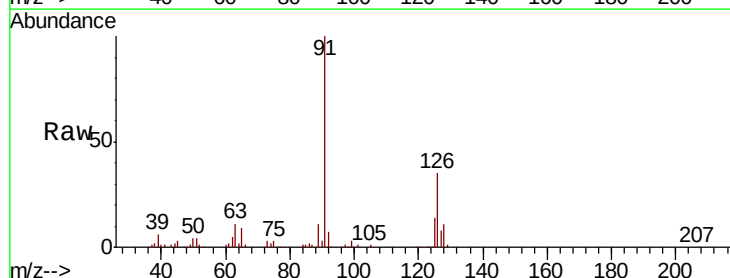
Manual Integrations
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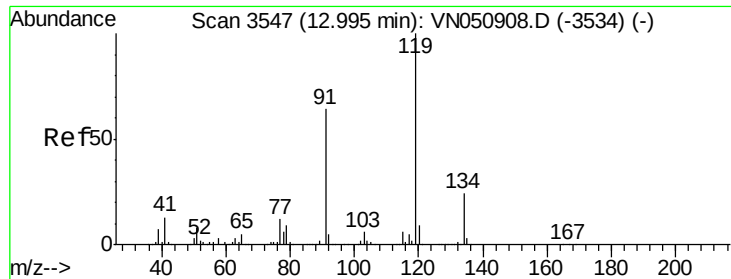
MMDadoda
 9/5/2018 12:00:12 PM



#78
 4-Chlorotoluene
 Concen: 15.91 ug/l
 RT: 12.77 min Scan# 3478
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.7	0.0	69.8





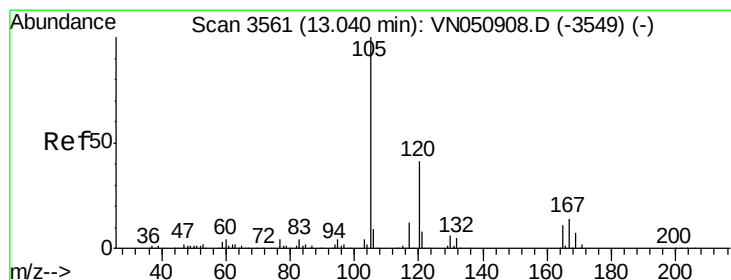
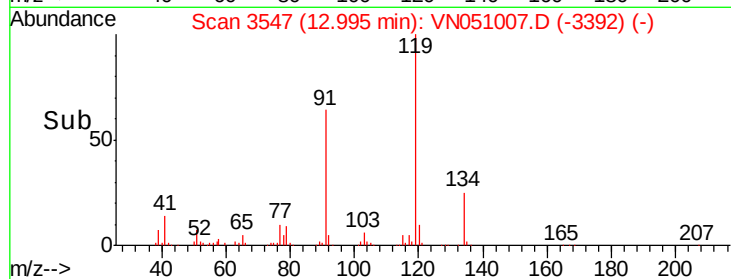
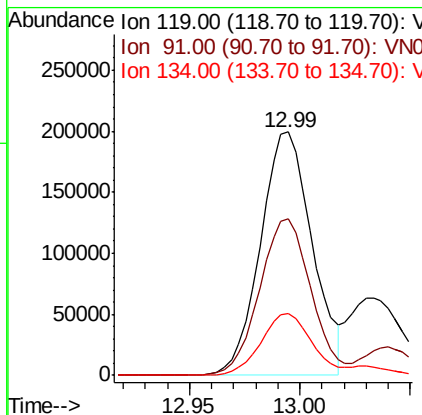
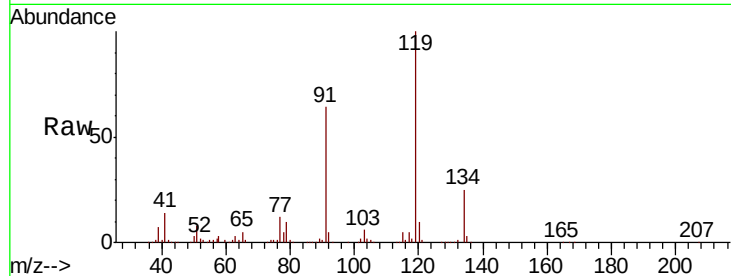
#79
tert-butylbenzene
Concen: 16.37 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
119	100	324611		
91	63.5	0.0	125.6	
134	24.9	0.0	48.4	

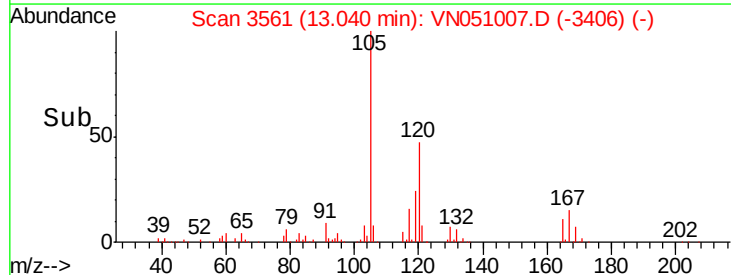
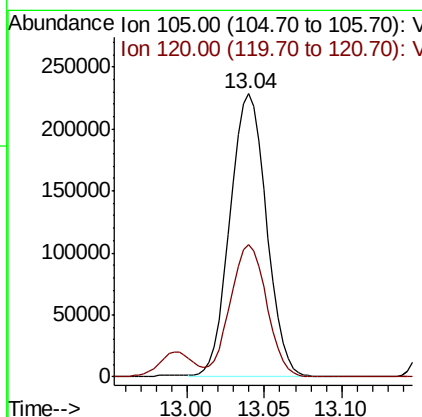
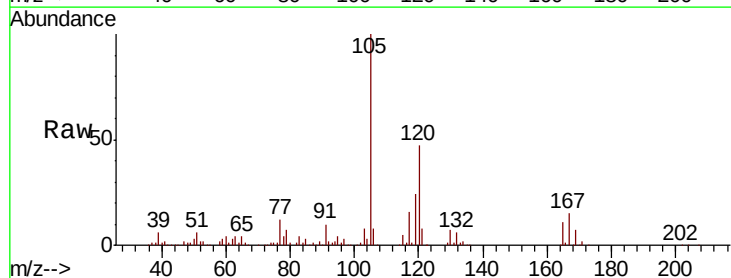
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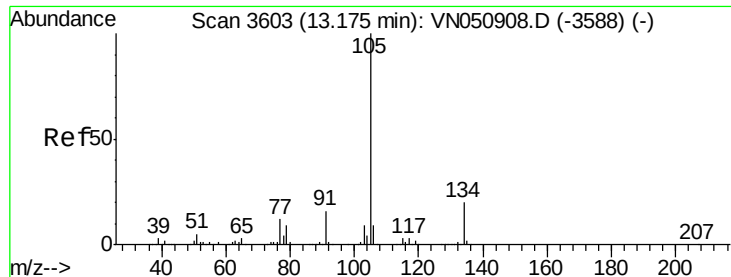
MMDadoda
9/5/2018 12:00:12 PM



#80
1,2,4-Trimethylbenzene
Concen: 16.36 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. -0.00 min
Lab File: VN051007.D
Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	372505		
120	46.9	0.0	93.6	





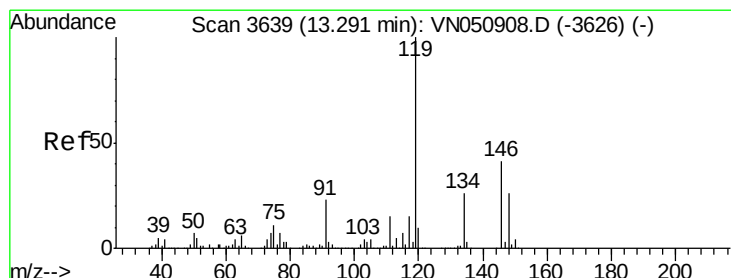
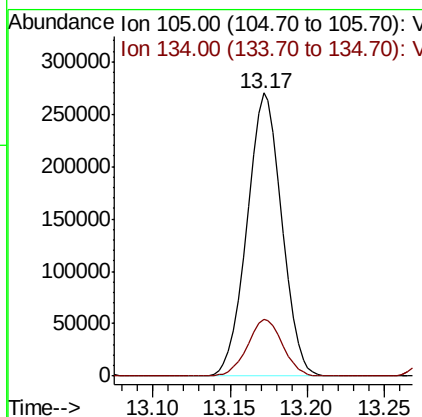
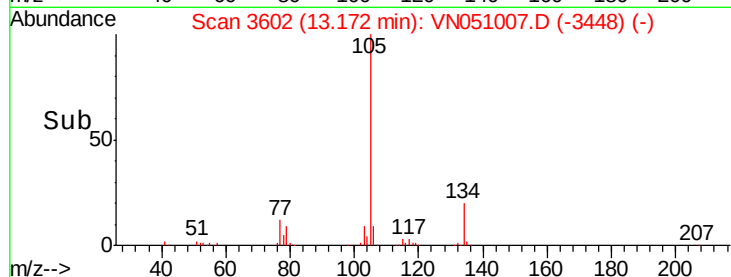
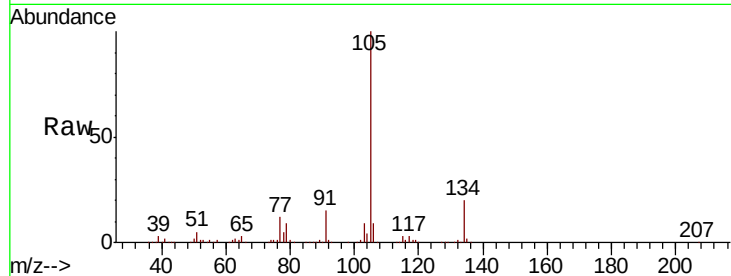
#81
 sec-Butylbenzene
 Concen: 16.29 ug/l
 RT: 13.17 min Scan# 3602
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
105	100		
134	20.3	0.0	40.8

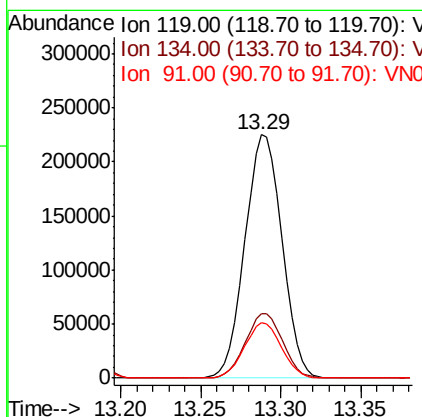
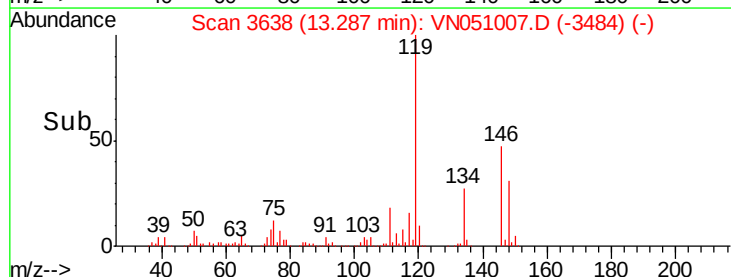
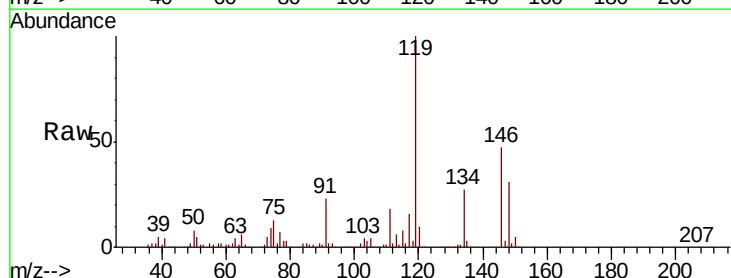
Manual Integrations
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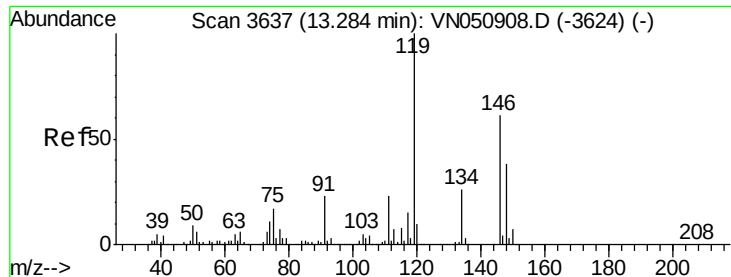
MMDadoda
 9/5/2018 12:00:12 PM



#82
 p-Isopropyltoluene
 Concen: 15.98 ug/l
 RT: 13.29 min Scan# 3638
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
119	100		
134	26.8	0.0	53.2
91	22.6	0.0	46.0





#83

1,3-Dichlorobenzene

Concen: 15.12 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

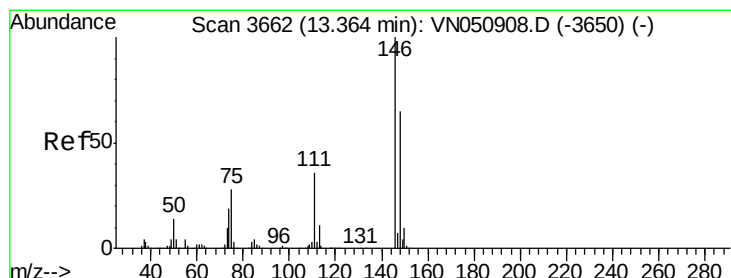
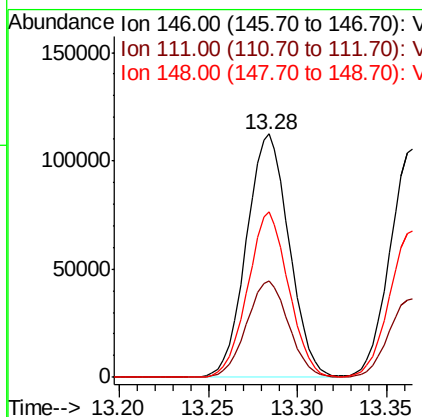
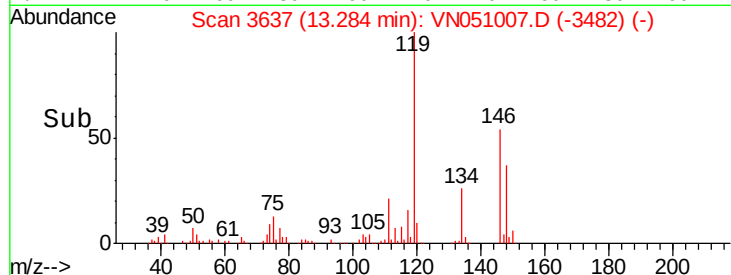
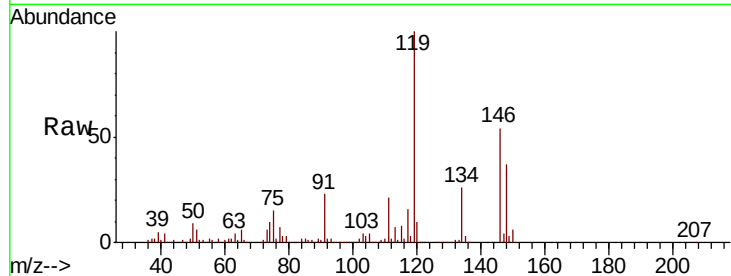
ClientSampled :

VSTDCCC020

Tot Ion:	146	Resp:	187936
Ion Ratio	Lower	Upper	
146	100		
111	38.9	18.6	55.6
148	65.4	31.8	95.3

Manual Integrations
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9/5/2018 12:00:12 PM



#84

1,4-Dichlorobenzene

Concen: 14.91 ug/l

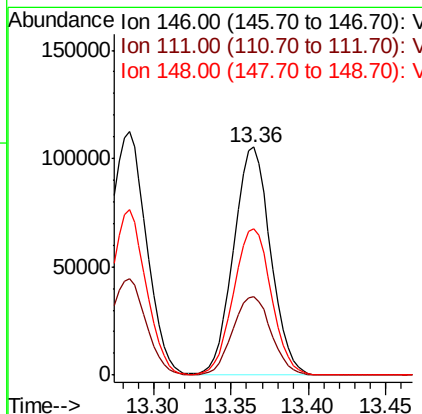
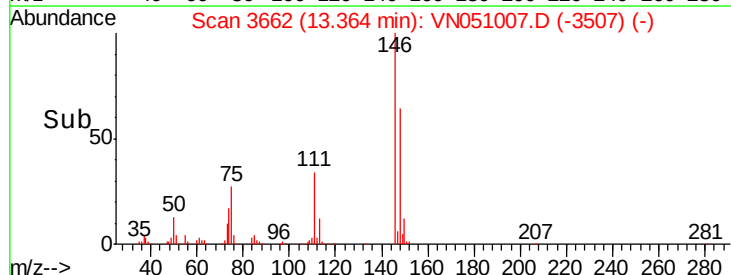
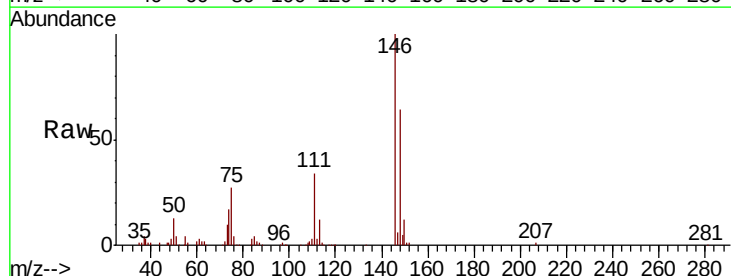
RT: 13.36 min Scan# 3662

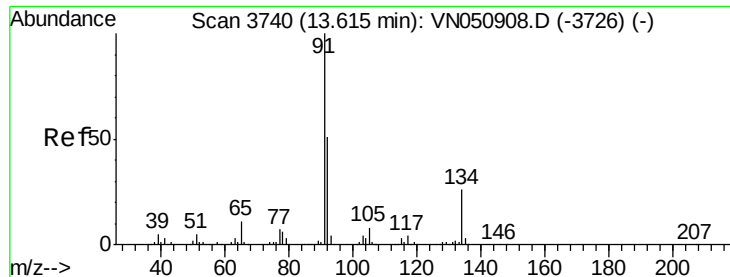
Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Tgt Ion:	146	Resp:	175606
Ion Ratio	Lower	Upper	
146	100		
111	35.7	17.7	53.1
148	65.6	31.6	94.8





#85

n-Butylbenzene

Concen: 14.57 ug/l

RT: 13.62 min Scan# 3740

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

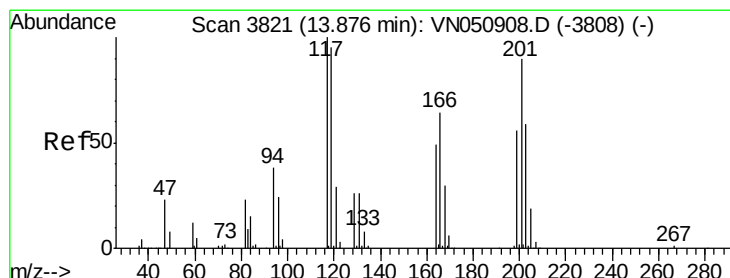
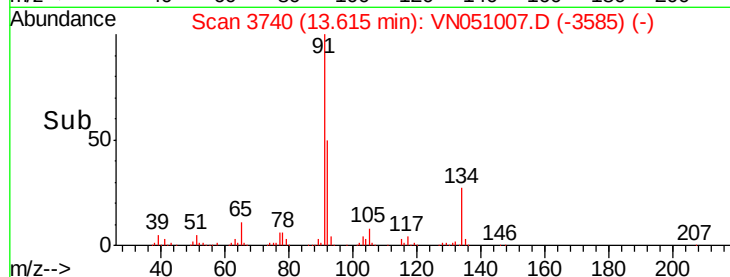
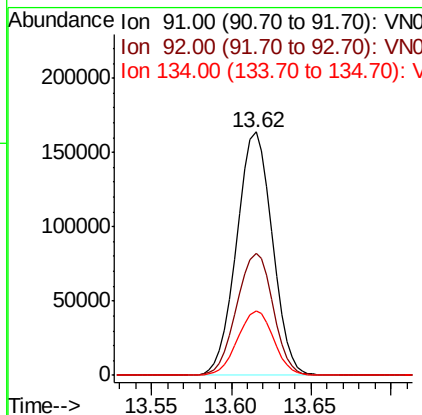
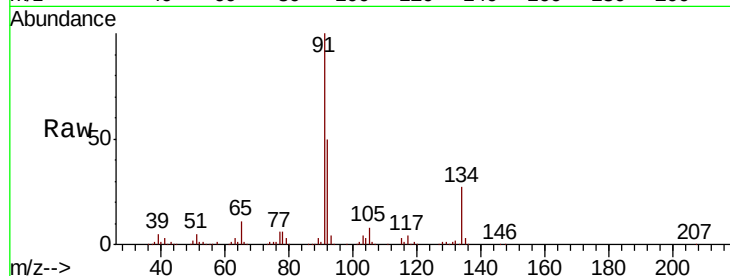
ClientSampled :

VSTDCCC020

Tot Ion:	91	Resp:	248970
Ion	Ratio	Lower	Upper
91	100		
92	50.9	0.0	101.8
134	26.6	0.0	52.2

Manual Integrations
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9/5/2018 12:00:12 PM



#86

Hexachloroethane

Concen: 15.76 ug/l

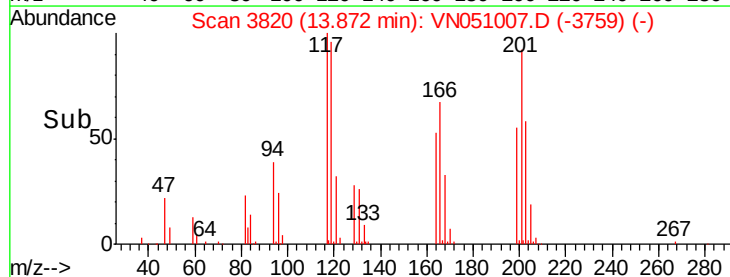
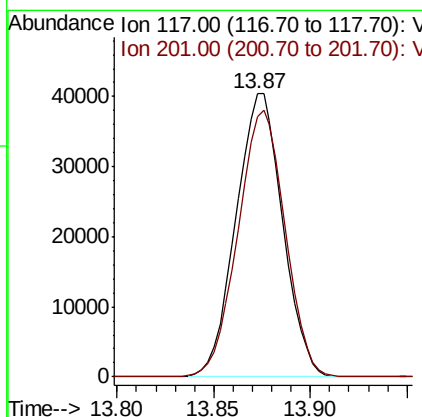
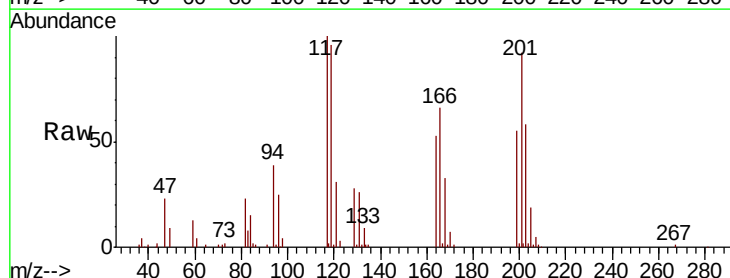
RT: 13.87 min Scan# 3820

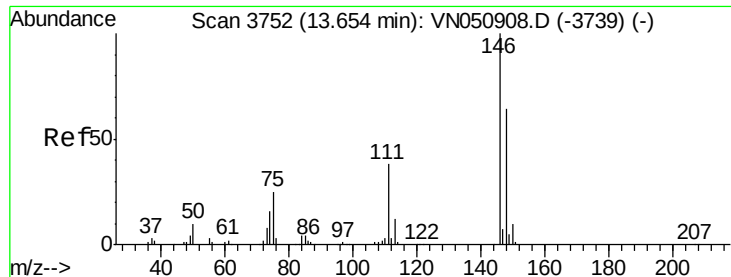
Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Tgt Ion:	117	Resp:	67765
Ion	Ratio	Lower	Upper
117	100		
201	95.1	45.8	137.4





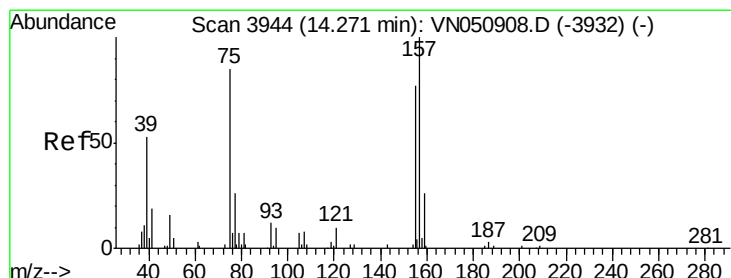
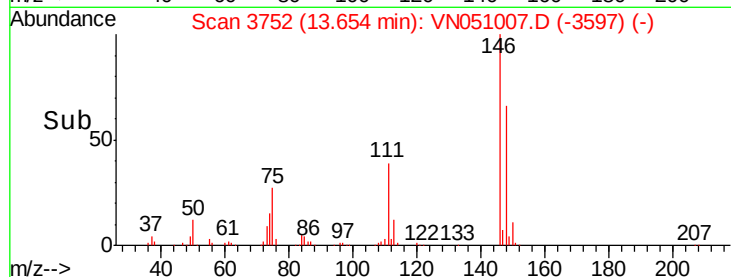
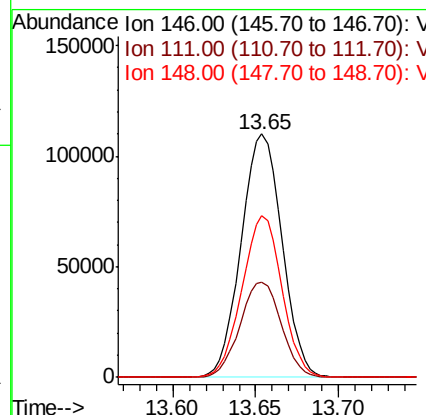
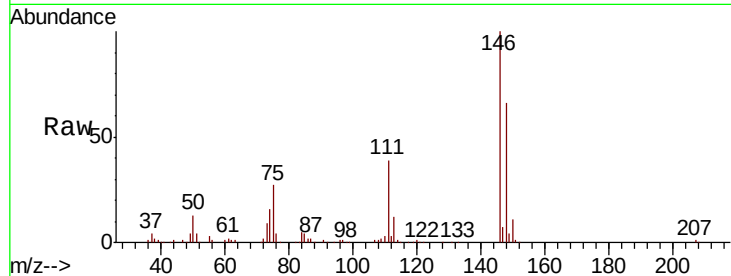
#87
 1,2-Dichlorobenzene
 Concen: 15.44 ug/l
 RT: 13.65 min Scan# 3752
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
146	100		
111	39.5	19.1	57.1
148	64.7	31.9	95.9

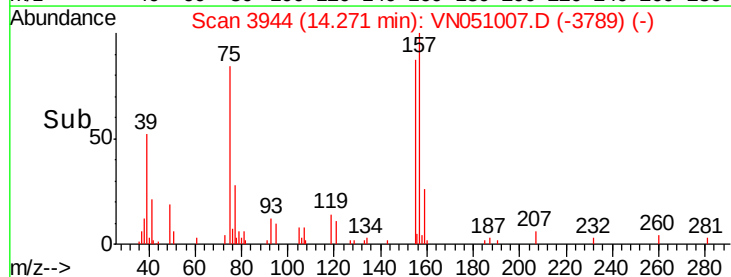
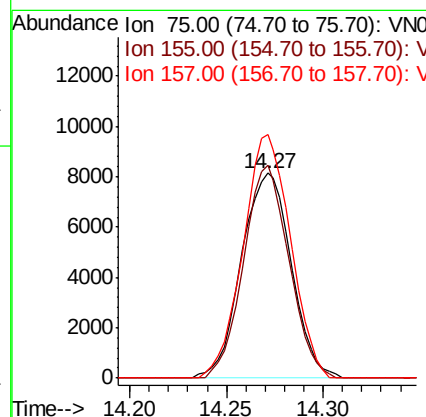
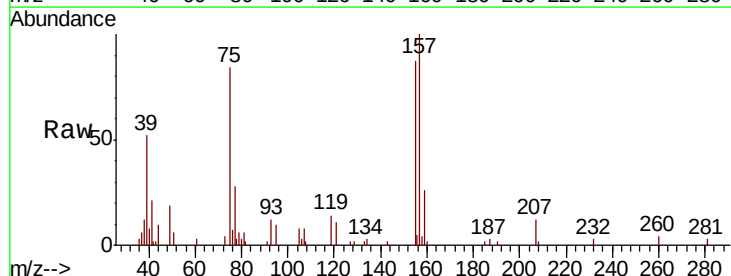
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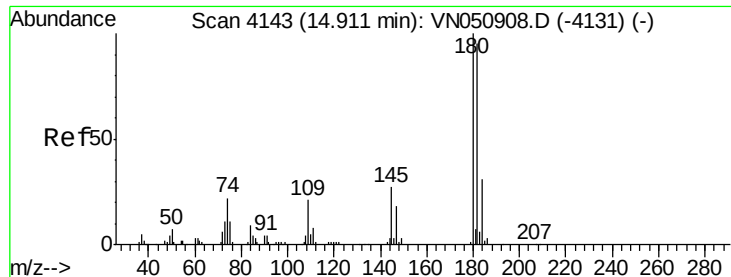
MMDadoda
 9/5/2018 12:00:12 PM



#88
 1,2-Dibromo-3-Chloropropane
 Concen: 13.79 ug/l
 RT: 14.27 min Scan# 3944
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
75	100		
155	94.7	71.8	107.6
157	113.1	91.1	136.7





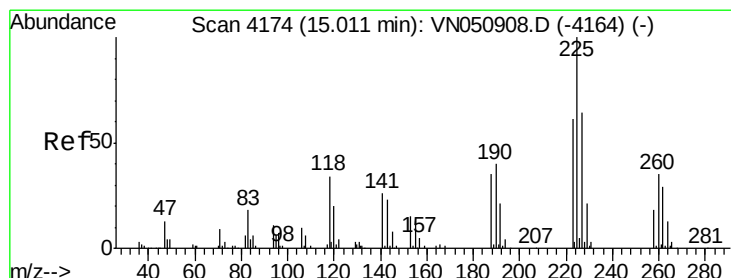
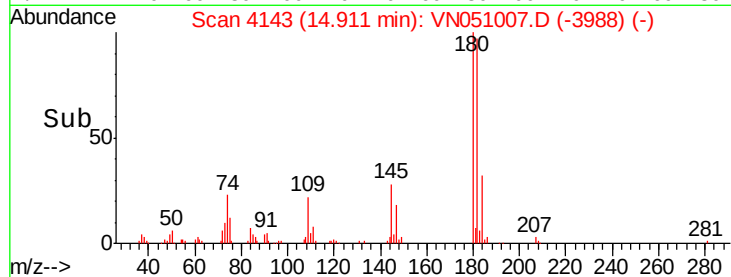
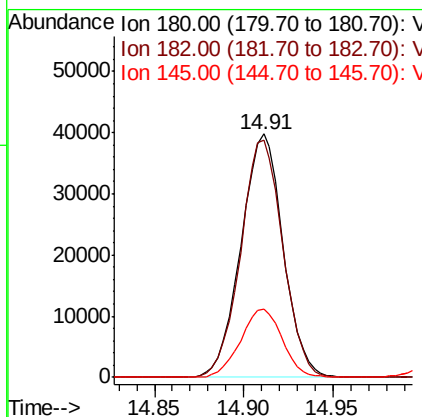
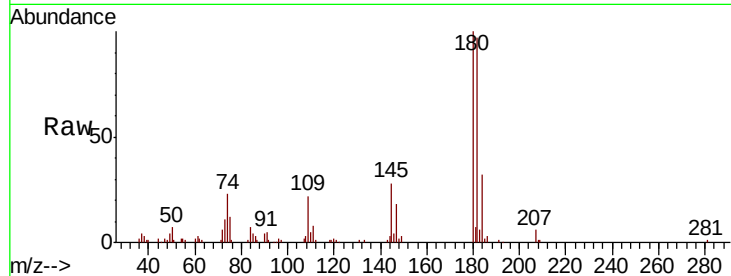
#89
 1,2,4-Trichlorobenzene
 Concen: 12.04 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
180	100		
182	97.2	76.2	114.4
145	27.8	22.2	33.4

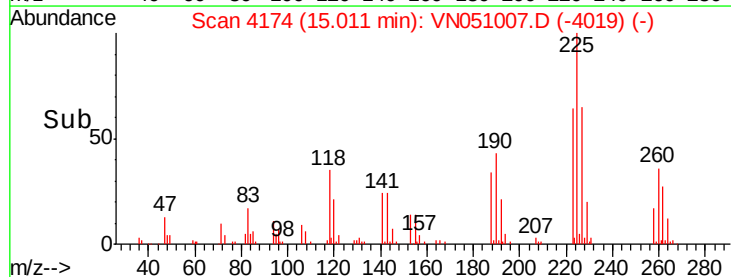
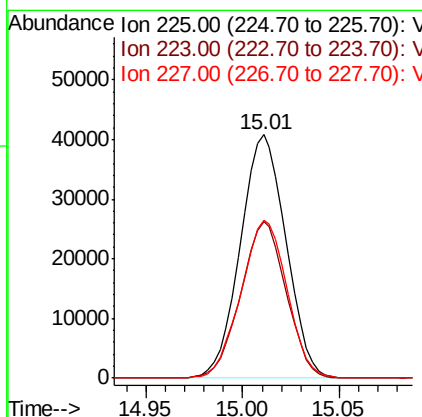
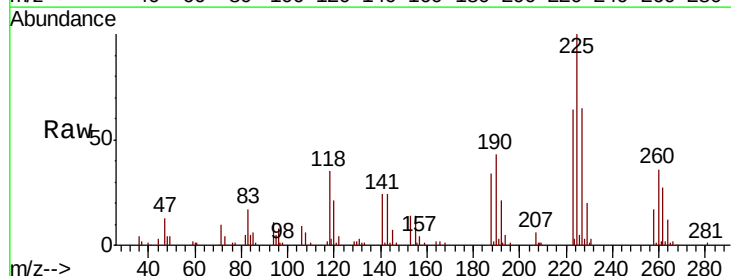
Manual Integrations
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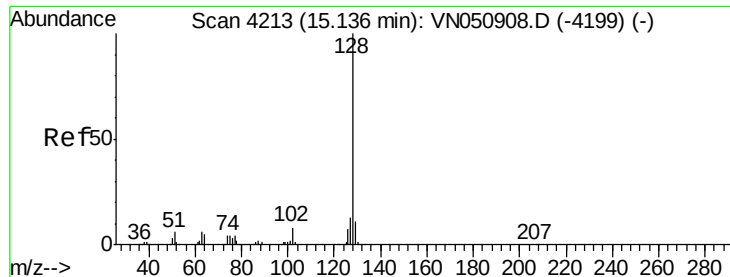
MMDadoda
 9/5/2018 12:00:12 PM



#90
 Hexachlorobutadiene
 Concen: 18.13 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. -0.00 min
 Lab File: VN051007.D
 Acq: 4 Sep 2018 10:02

Tgt Ion	Ratio	Lower	Upper
225	100		
223	63.7	0.0	127.8
227	65.4	0.0	128.4





#91

Naphthalene

Concen: 15.54 ug/l

RT: 15.13 min Scan# 4212

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Instrument :

MSVOA_N

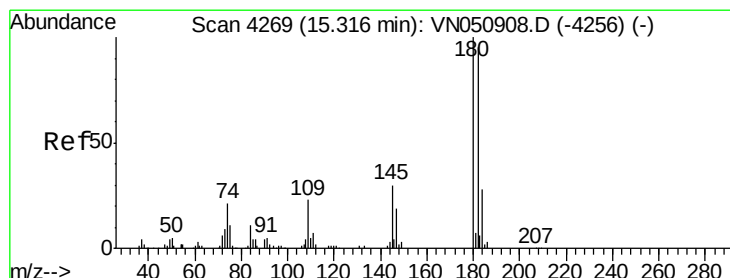
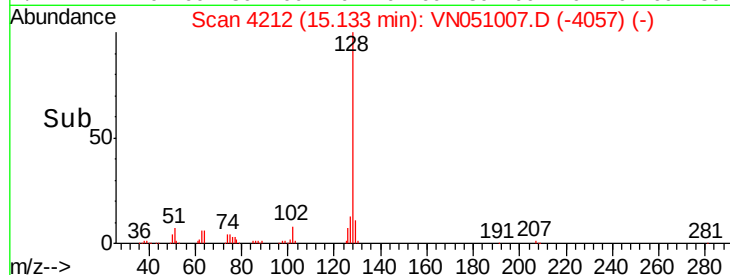
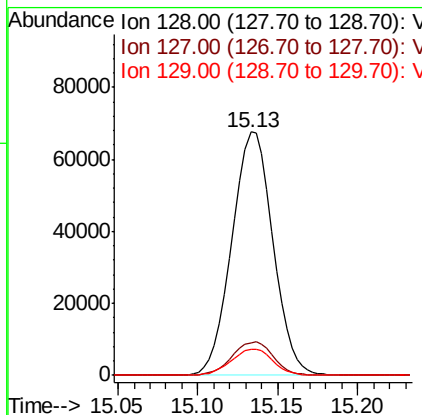
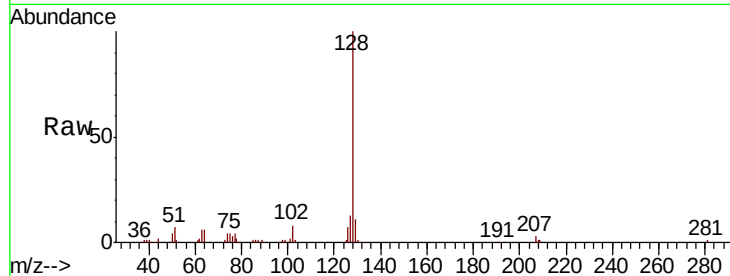
ClientSampled :

VSTDCCC020

Tot Ion:	128	Resp:	118550
Ion Ratio	Lower	Upper	
128	100		
127	13.7	10.6	16.0
129	10.9	8.7	13.1

Manual Integrations
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#92

1,2,3-Trichlorobenzene

Concen: 13.05 ug/l

RT: 15.32 min Scan# 4269

Delta R.T. -0.00 min

Lab File: VN051007.D

Acq: 4 Sep 2018 10:02

Tgt Ion:	180	Resp:	71292
Ion Ratio	Lower	Upper	
180	100		
182	96.9	0.0	192.8
145	28.8	0.0	60.0

