

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN081718\
 Data File : VN050715.D
 Acq On : 17 Aug 2018 8:00
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 2 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Manual Integrations
 APPROVED

MMDadoda
 8/20/2018 10:35:48 AM

Quant Time: Aug 17 14:25:22 2018
 Quant Method : Z:\voasrv\HPCHEM1\MSVOA N\methods\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Thu Jul 26 15:21:50 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	122751	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	652337	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	570630	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	240930	28.88	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	96.27%
60) 4-Bromofluorobenzene	12.40	95	257997	29.43	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	98.10%
63) Toluene-d8	10.09	98	839752	30.81	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	102.70%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	136776	16.17	ug/l	98
3) Chloromethane	2.06	50	173403	19.88	ug/l	98
4) Vinyl Chloride	2.18	62	181796	19.58	ug/l	97
5) Bromomethane	2.57	94	106850	18.88	ug/l	97
6) Chloroethane	2.70	64	111308	20.27	ug/l	100
7) Trichlorofluoromethane	3.01	101	245291	20.22	ug/l	99
8) Diethyl Ether	3.41	74	78544	19.30	ug/l	92
9) 1,1,2-Trichlorotrifluoroet	3.76	101	156192	21.16	ug/l	98
10) 1,1-Dichloroethene	3.73	96	134155	20.50	ug/l	95
11) Methyl Iodide	3.95	142	91231	9.47	ug/l	98
12) Methyl Acetate	4.33	43	118136	15.76	ug/l	97
13) Acrolein	3.61	56	37161	80.21	ug/l	99
14) Acrylonitrile	4.99	53	219680	87.81	ug/l	99
15) Acetone	3.82	58	72817	109.53	ug/l	91
16) Carbon Disulfide	4.05	76	411041	20.52	ug/l	100
17) Allyl chloride	4.33	41	208662	20.19	ug/l	94
18) Methylene Chloride	4.55	84	157578	20.87	ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	144025	20.55	ug/l	96
20) Diisopropyl ether	5.95	45	453710	21.41	ug/l	98
21) 1,1-Dichloroethane	5.85	63	276923	20.78	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	160177	20.61	ug/l	99
23) tert-Butyl Alcohol	4.79	59	40088	71.72	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	334704	18.75	ug/l	100
25) Chloroform	7.37	83	279858	20.75	ug/l	99
26) Cyclohexane	7.65	56	226813	21.42	ug/l	# 100
29) 1,1-Dichloropropene	7.79	75	211858	20.93	ug/l	99
30) 2-Butanone	6.84	43	323392	101.80	ug/l	98
31) 2,2-Dichloropropane	6.82	77	226053	20.20	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	236028	19.81	ug/l	99
33) Carbon Tetrachloride	7.77	117	216710	20.40	ug/l	98
34) Benzene	8.04	78	632053	20.56	ug/l	98
35) Methacrylonitrile	7.17	41	53512	14.79	ug/l	99
36) 1,2-Dichloroethane	8.12	62	192109	19.03	ug/l	100
37) Trichloroethene	8.83	130	163922	20.33	ug/l	95
38) Methylcyclohexane	9.08	83	216720	20.31	ug/l	99
39) 1,2-Dichloropropane	9.12	63	171304	21.15	ug/l	98
40) Dibromomethane	9.21	93	98563	19.69	ug/l	99

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 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
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 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	209405	19.83	ug/l	99
42) Vinyl Acetate	5.90	43	1405945	94.05	ug/l	100
43) Ethyl Acetate	6.93	43	125008m	18.84	ug/l	
44) Isopropyl Acetate	8.17	43	207516m	16.89	ug/l	
45) 1,4-Dioxane	9.20	88	27216	336.56	ug/l	97
46) Methyl methacrylate	9.20	41	95207	15.98	ug/l	99
47) n-amyl Acetate	12.07	43	156770	16.39	ug/l	96
48) t-1,3-Dichloropropene	10.38	75	197896	19.66	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	240789	20.36	ug/l	96
50) 1,1,2-Trichloroethane	10.56	97	139788	19.45	ug/l	98
51) Ethyl methacrylate	10.43	69	152979	17.54	ug/l	99
52) 1,3-Dichloropropane	10.71	76	231874	19.65	ug/l	99
53) Dibromochloromethane	10.90	129	156031	19.13	ug/l	97
54) 1,2-Dibromoethane	11.01	107	131783	18.73	ug/l	100
55) 2-Chloroethyl vinyl ether	9.70	63	363713	92.15	ug/l	100
56) Bromoform	12.13	173	102605	17.82	ug/l	100
58) 4-Methyl-2-Pentanone	9.99	43	719298	108.33	ug/l	98
59) 2-Hexanone	10.75	43	469019	103.54	ug/l	100
61) Tetrachloroethene	10.63	164	153053	19.80	ug/l	97
62) Toluene	10.16	91	682777	20.97	ug/l	100
64) Chlorobenzene	11.43	112	411008	20.82	ug/l	99
65) 1,1,1,2-Tetrachloroethane	11.51	131	161294	20.95	ug/l	100
66) Ethyl Benzene	11.51	91	672198	20.20	ug/l	99
67) m/p-Xylenes	11.62	106	543596	42.46	ug/l	99
68) o-Xylene	11.95	106	252616	20.74	ug/l	98
69) Styrene	11.96	104	406563	20.82	ug/l	99
70) Isopropylbenzene	12.25	105	668723	20.61	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.50	83	165700	18.60	ug/l	99
72) 1,2,3-Trichloropropane	12.55	75	143959m	18.92	ug/l	
73) Bromobenzene	12.53	156	172642	19.98	ug/l	99
74) n-propylbenzene	12.59	91	771412	20.41	ug/l	100
75) 2-Chlorotoluene	12.67	91	464135	20.45	ug/l	98
76) 1,3,5-Trimethylbenzene	12.73	105	558768	20.97	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	38488	15.47	ug/l	97
78) 4-Chlorotoluene	12.77	91	464612	20.66	ug/l	100
79) tert-butylbenzene	12.99	119	462605	20.30	ug/l	98
80) 1,2,4-Trimethylbenzene	13.04	105	560833	20.77	ug/l	99
81) sec-Butylbenzene	13.17	105	628501	20.31	ug/l	100
82) p-Isopropyltoluene	13.29	119	541770	20.52	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	296760	19.72	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	281181	19.77	ug/l	100
85) n-Butylbenzene	13.62	91	412314	19.24	ug/l	99
86) Hexachloroethane	13.88	117	100959	19.13	ug/l	100
87) 1,2-Dichlorobenzene	13.65	146	291822	19.84	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	22372	16.12	ug/l	98
89) 1,2,4-Trichlorobenzene	14.91	180	122164	17.39	ug/l	99
90) Hexachlorobutadiene	15.01	225	96756	20.89	ug/l	97
91) Naphthalene	15.13	128	215427	17.42	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	122613	17.16	ug/l	100

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VSTDCCC020

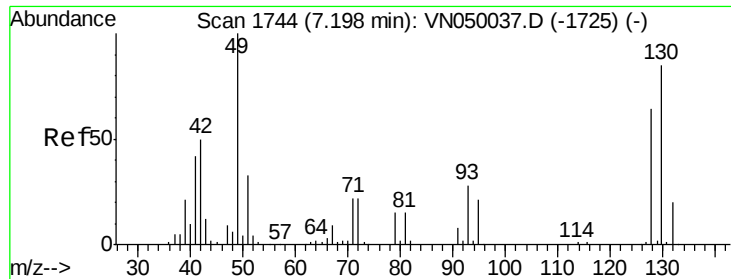
Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
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(#) = qualifier out of range (m) = manual integration (+) = signals summed



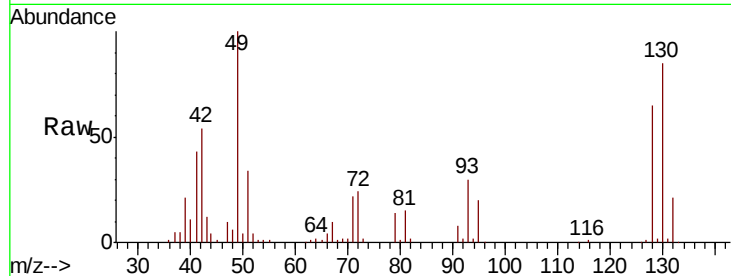
#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.20 min Scan# 1744
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

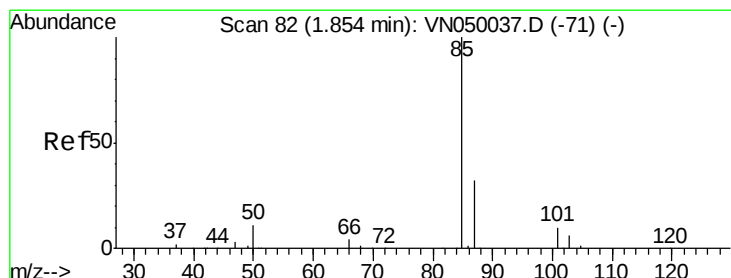
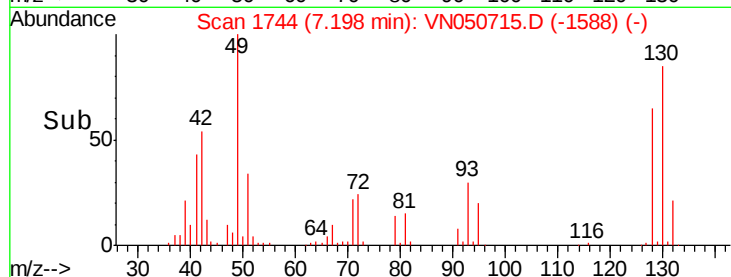
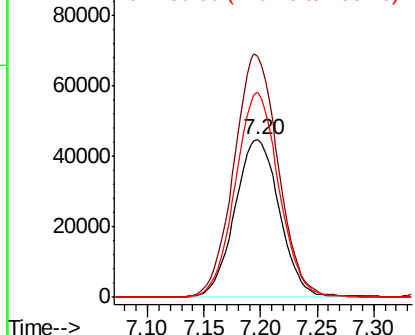
Tot Ion	Ratio	Resp	Lower	Upper
128	100	122751		
49	153.2	0.0	378.3	
130	126.8	0.0	320.7	

Manual Integrations
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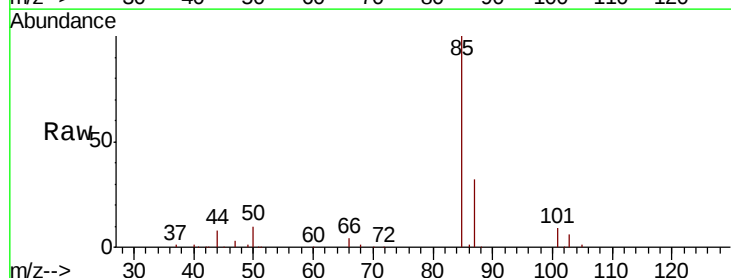


Abundance Ion 128.00 (127.70 to 128.70): V
Ion 49.00 (48.70 to 49.70): V
Ion 130.00 (129.70 to 130.70): V

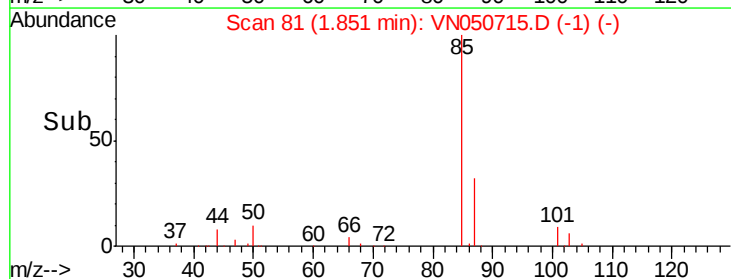
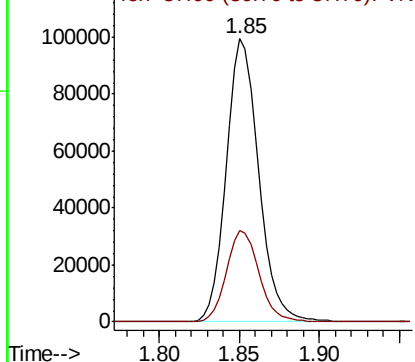


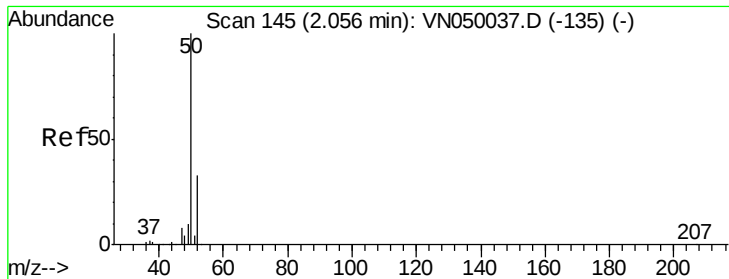
#2
Dichlorodifluoromethane
Concen: 16.17 ug/l
RT: 1.85 min Scan# 81
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Resp	Lower	Upper
85	100	136776		
87	32.2	15.4	46.4	



Abundance Ion 85.00 (84.70 to 85.70): V
Ion 87.00 (86.70 to 87.70): V





#3

Chloromethane

Concen: 19.88 ug/l

RT: 2.06 min Scan# 146

Delta R.T. 0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion: 50 Resp: 173403

Ion Ratio Lower Upper

50 100

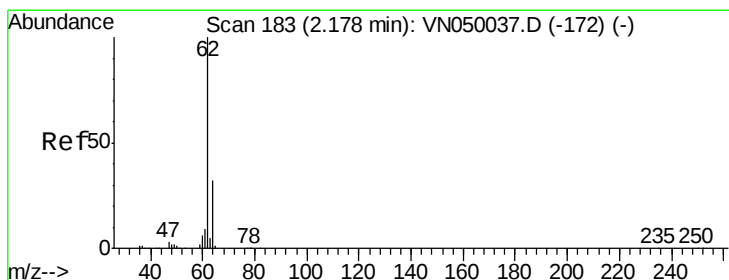
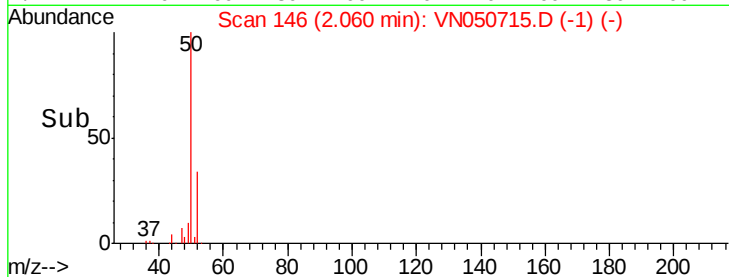
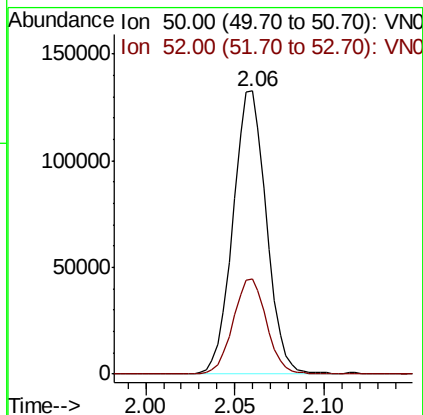
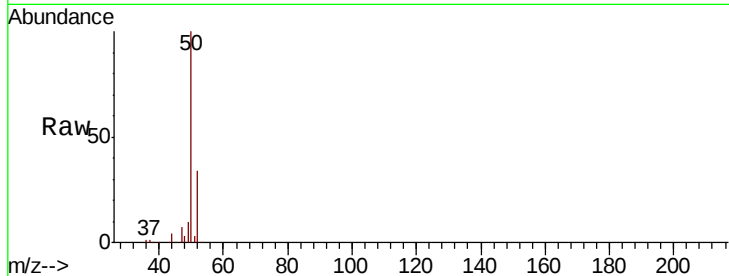
52 33.9 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.58 ug/l

RT: 2.18 min Scan# 185

Delta R.T. 0.01 min

Lab File: VN050715.D

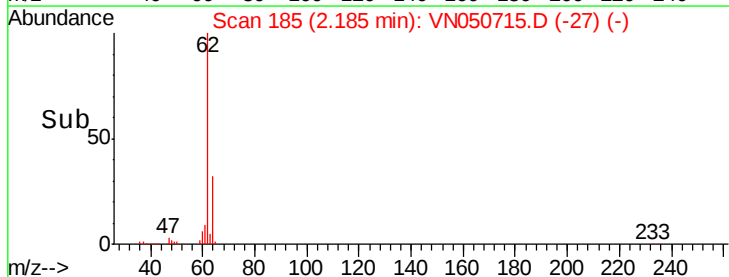
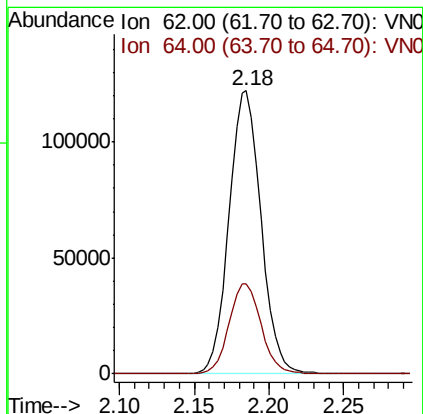
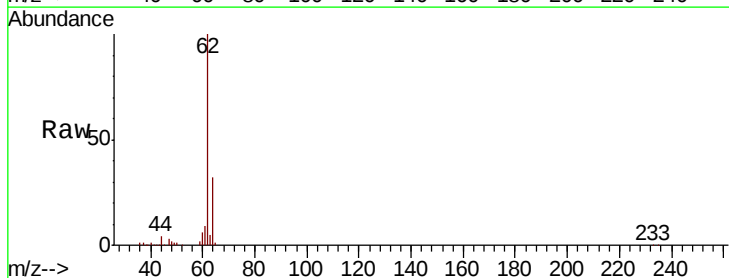
Acq: 17 Aug 2018 8:00

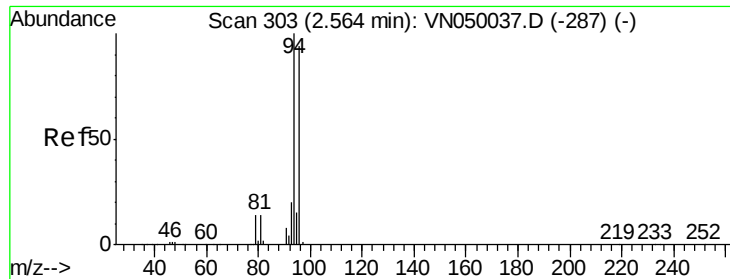
Tgt Ion: 62 Resp: 181796

Ion Ratio Lower Upper

62 100

64 32.0 24.4 36.6





#5

Bromomethane

Concen: 18.88 ug/l

RT: 2.57 min Scan# 304

Delta R.T. 0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 94 Resp: 106850

Ion Ratio Lower Upper

94 100

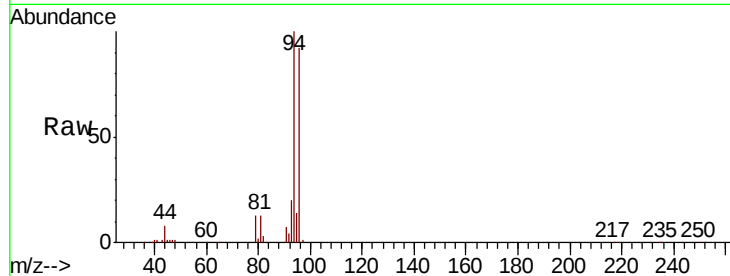
96 92.1 75.9 113.9

Manual Integrations

APPROVED

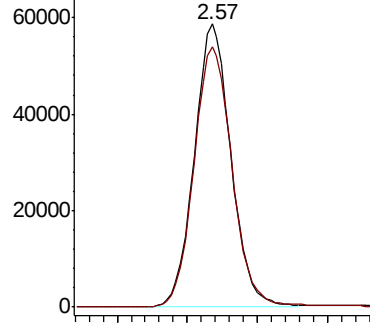
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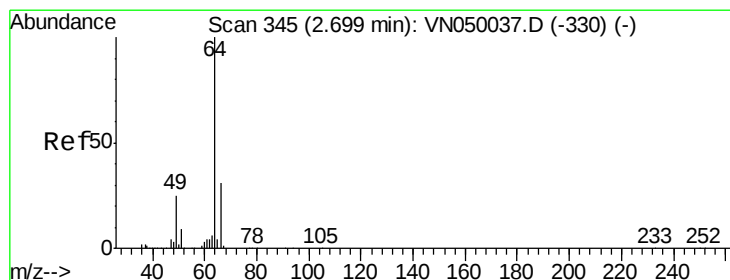
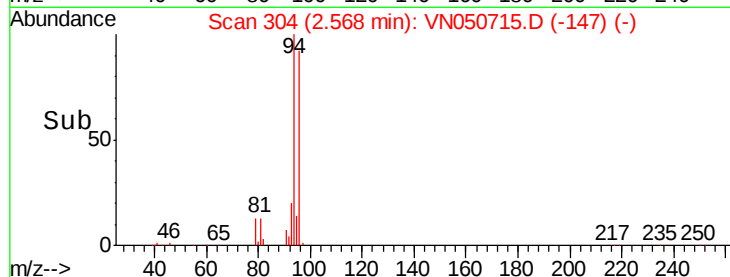


Abundance Ion 94.00 (93.70 to 94.70): VNC

Ion 96.00 (95.70 to 96.70): VNC



Time-->



#6

Chloroethane

Concen: 20.27 ug/l

RT: 2.70 min Scan# 346

Delta R.T. 0.00 min

Lab File: VN050715.D

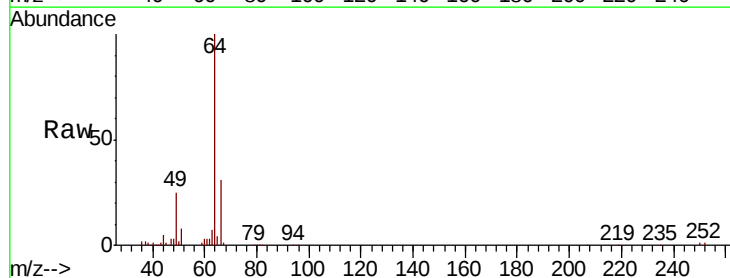
Acq: 17 Aug 2018 8:00

Tgt Ion: 64 Resp: 111308

Ion Ratio Lower Upper

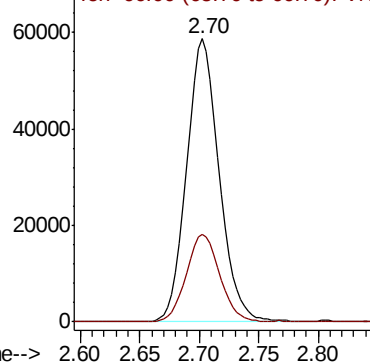
64 100

66 30.9 25.0 37.4

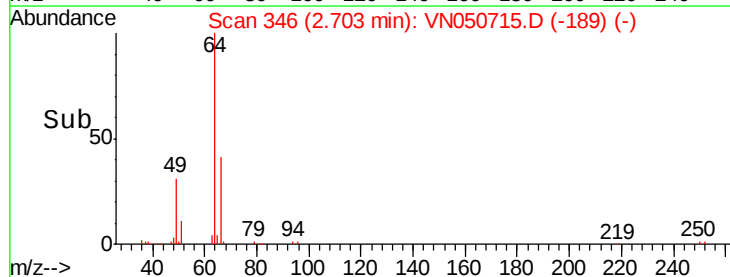


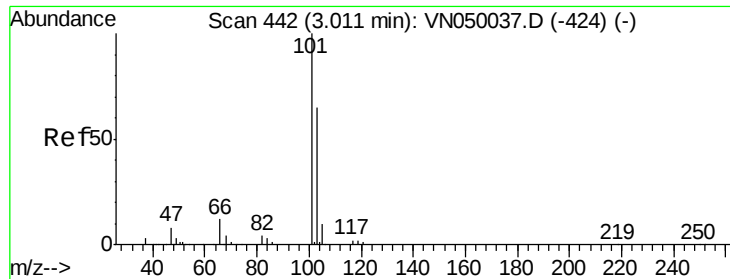
Abundance Ion 64.00 (63.70 to 64.70): VNC

Ion 66.00 (65.70 to 66.70): VNC



Time-->





#7

Trichlorofluoromethane

Concen: 20.22 ug/l

RT: 3.01 min Scan# 443

Delta R.T. 0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 101 Resp: 245291

Ion Ratio Lower Upper

101 100

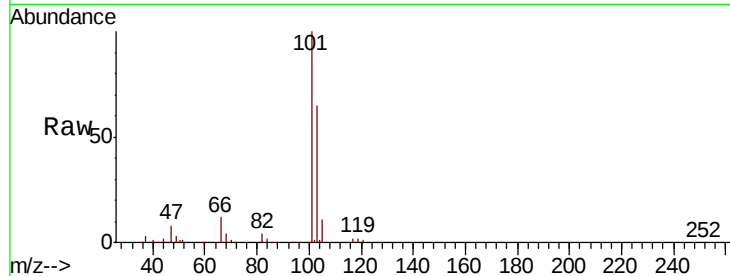
103 65.3 51.5 77.3

Manual Integrations

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8/20/2018 10:35:48 AM



Abundance Ion 101.00 (100.70 to 101.70): V

Ion 103.00 (102.70 to 103.70): V

120000

100000

80000

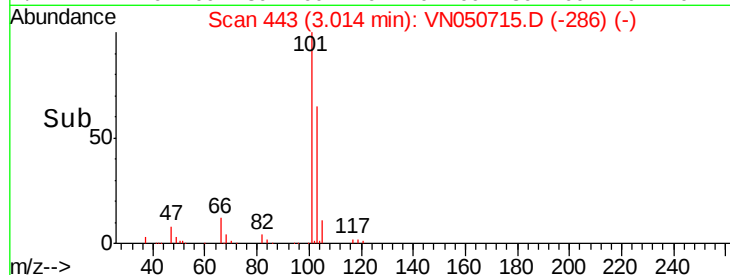
60000

40000

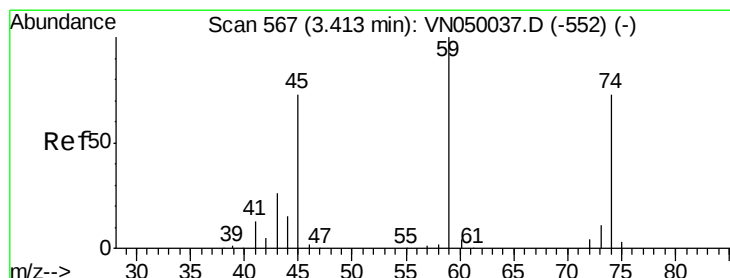
20000

0

Time-->



Time-->



#8

Diethyl Ether

Concen: 19.30 ug/l

RT: 3.41 min Scan# 567

Delta R.T. 0.00 min

Lab File: VN050715.D

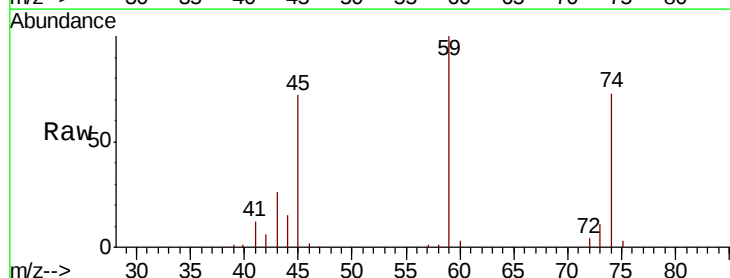
Acq: 17 Aug 2018 8:00

Tgt Ion: 74 Resp: 78544

Ion Ratio Lower Upper

74 100

45 100.5 18.7 167.9



Abundance Ion 74.00 (73.70 to 74.70): V

Ion 45.00 (44.70 to 45.70): V

40000

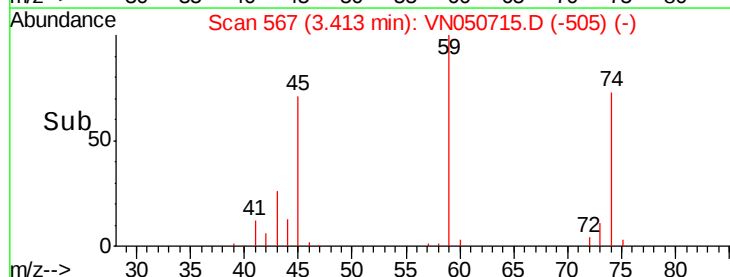
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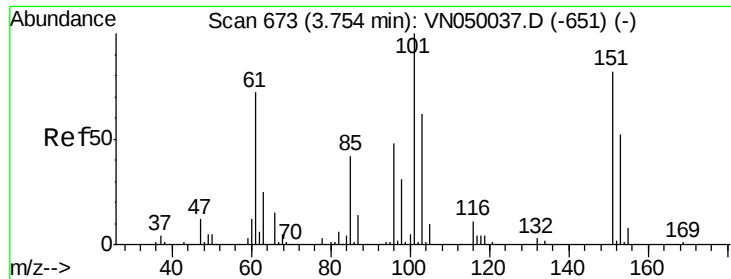
20000

10000

0

Time-->





#9

1,1,2-Trichlorotrifluoroethane

Concen: 21.16 ug/l

RT: 3.76 min Scan# 675

Delta R.T. 0.01 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

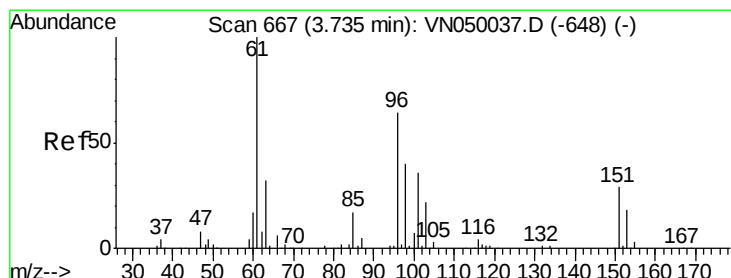
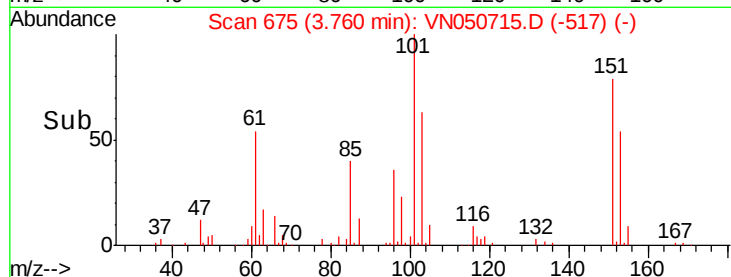
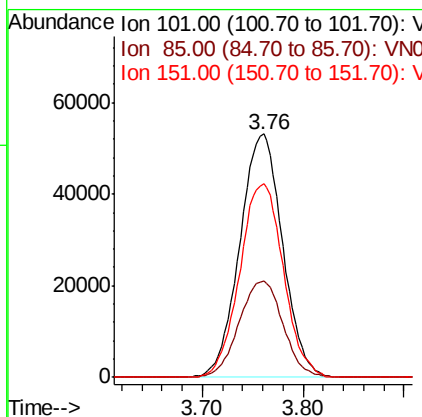
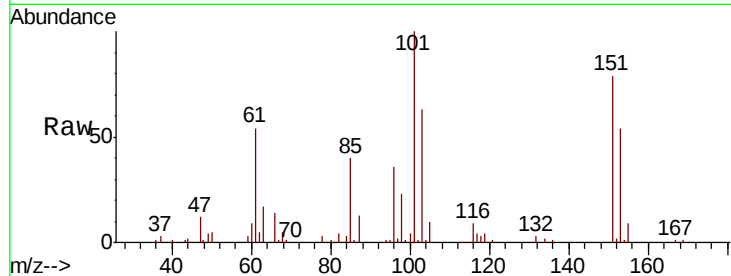
ClientSampleId :

VSTDCCC020

Tot Ion:	101	Resp:	156192
Ion Ratio	Lower	Upper	
101	100		
85	40.7	0.0	83.0
151	81.0	0.0	166.8

Manual Integrations
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#10

1,1-Dichloroethene

Concen: 20.50 ug/l

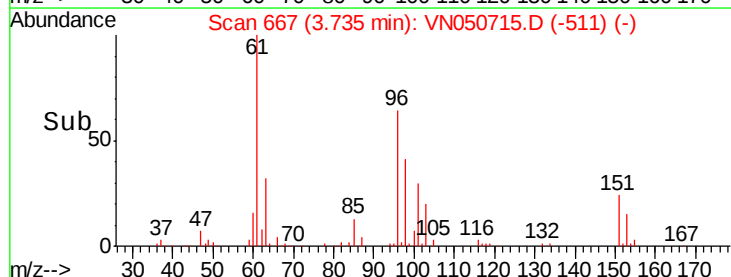
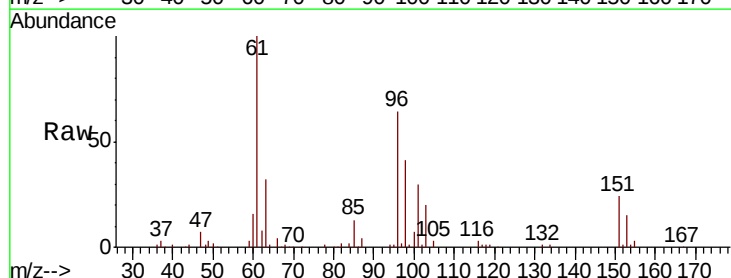
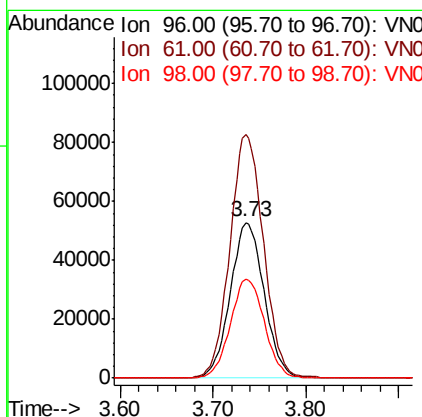
RT: 3.73 min Scan# 667

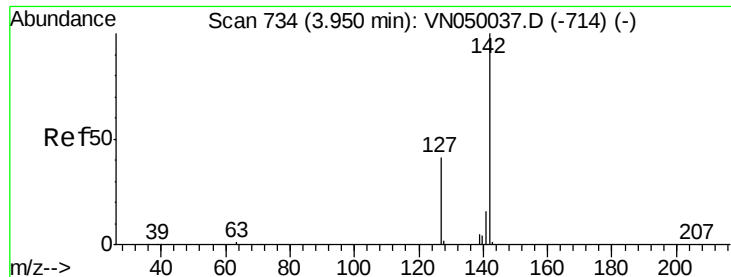
Delta R.T. 0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Tgt Ion:	96	Resp:	134155
Ion Ratio	Lower	Upper	
96	100		
61	156.8	130.6	195.8
98	63.8	53.5	80.3





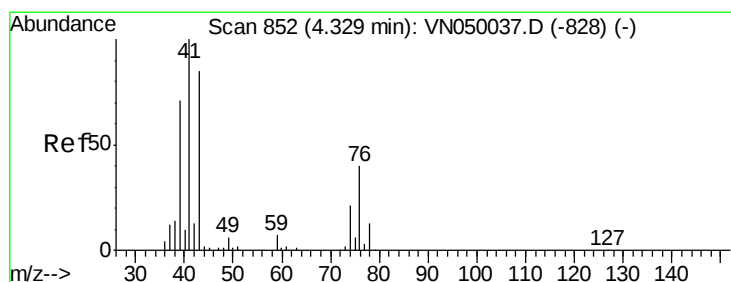
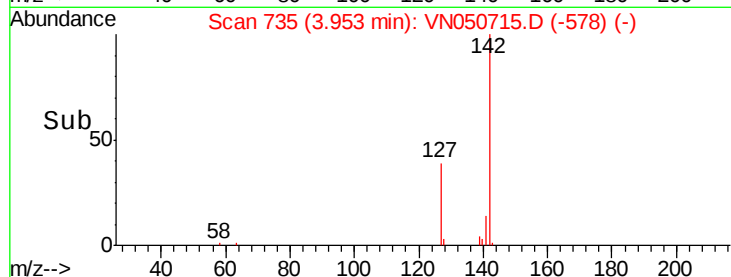
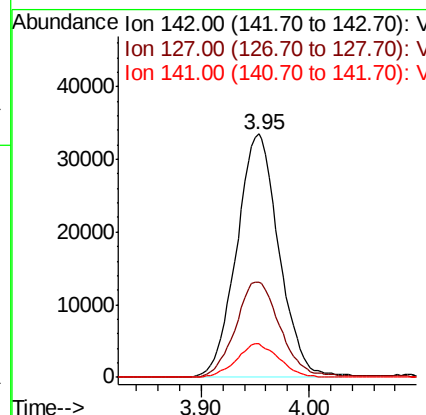
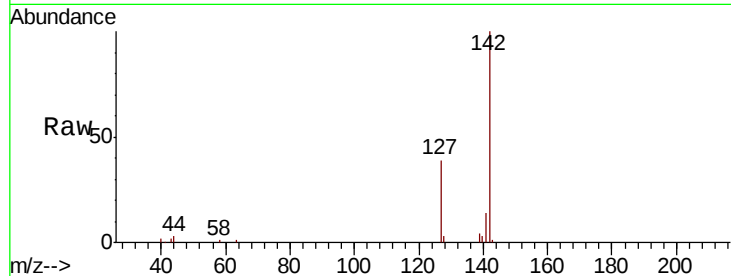
#11
Methyl Iodide
Concen: 9.47 ug/l
RT: 3.95 min Scan# 735
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
142	100		
127	39.0	20.2	60.5
141	13.8	6.9	20.6

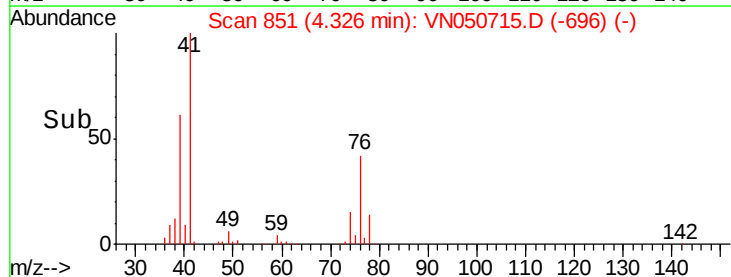
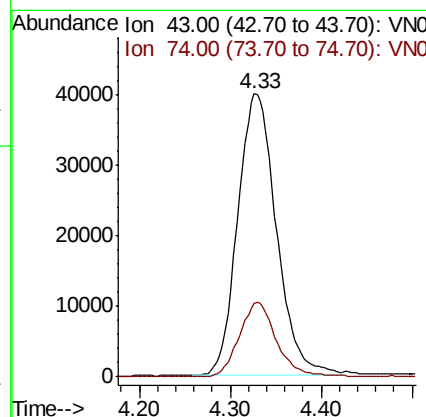
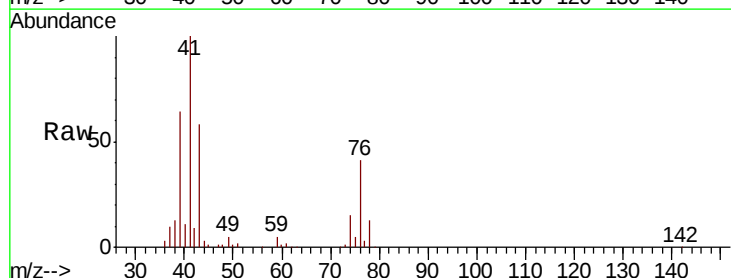
Manual Integrations
APPROVED

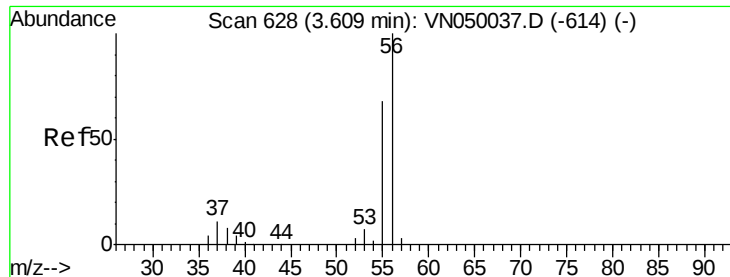
MMDadoda
8/20/2018 10:35:48 AM



#12
Methyl Acetate
Concen: 15.76 ug/l
RT: 4.33 min Scan# 851
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.8	19.3	28.9





#13

Acrolein

Concen: 80.21 ug/l

RT: 3.61 min Scan# 628

Delta R.T. 0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 56 Resp: 37161

Ion Ratio Lower Upper

56 100

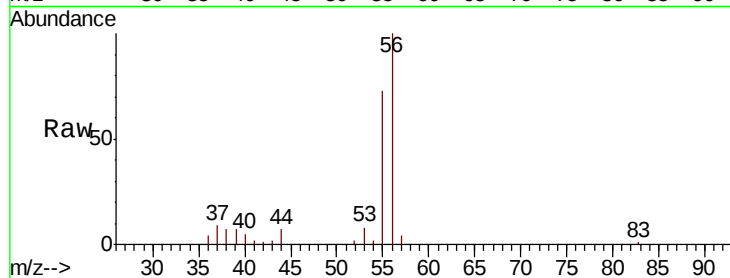
55 72.5 58.6 88.0

Manual Integrations

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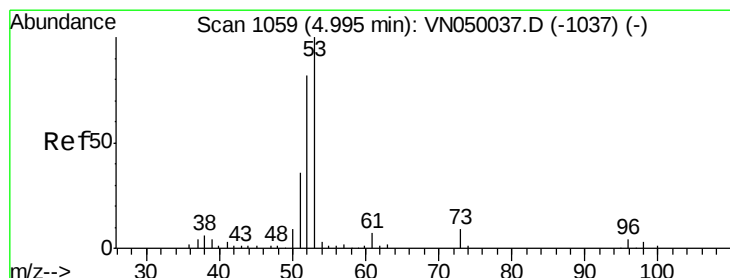
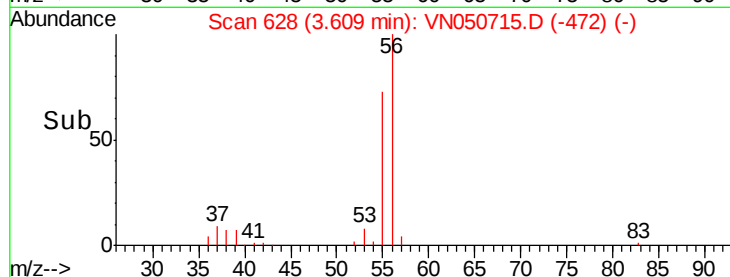
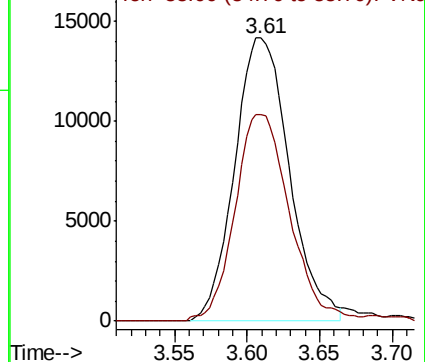
MMDadoda

8/20/2018 10:35:48 AM



Abundance Ion 56.00 (55.70 to 56.70): VN0

Ion 55.00 (54.70 to 55.70): VN0



#14

Acrylonitrile

Concen: 87.81 ug/l

RT: 4.99 min Scan# 1057

Delta R.T. -0.01 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

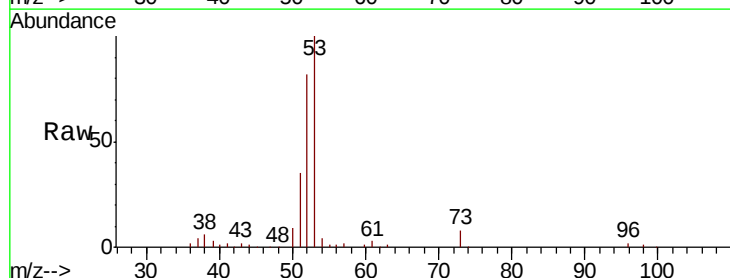
Tgt Ion: 53 Resp: 219680

Ion Ratio Lower Upper

53 100

52 83.7 41.5 124.5

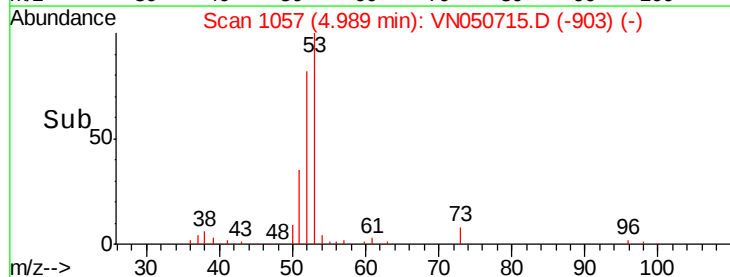
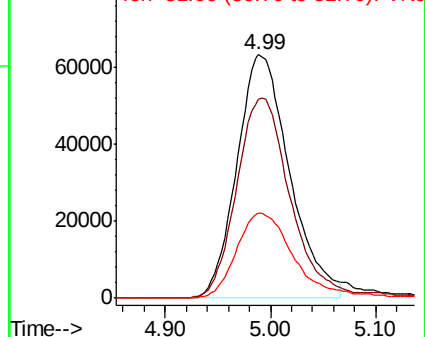
51 37.3 18.7 56.1

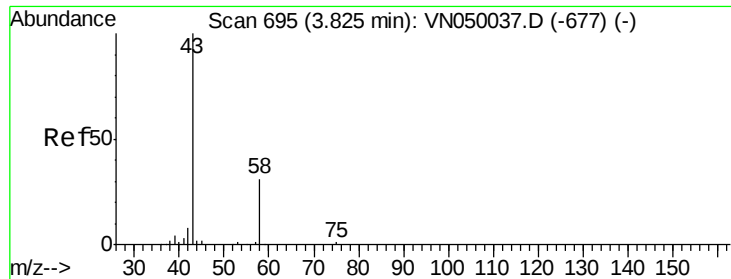


Abundance Ion 53.00 (52.70 to 53.70): VN0

Ion 52.00 (51.70 to 52.70): VN0

Ion 51.00 (50.70 to 51.70): VN0





#15

Acetone

Concen: 109.53 ug/l

RT: 3.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 58 Resp: 72817

Ion Ratio Lower Upper

58 100

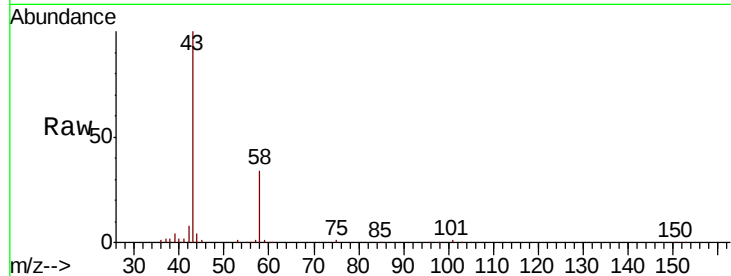
43 296.2 252.0 378.0

Manual Integrations

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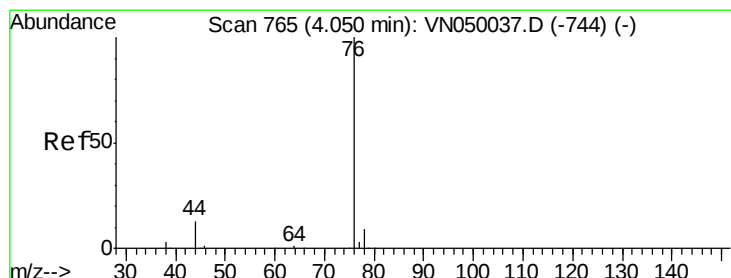
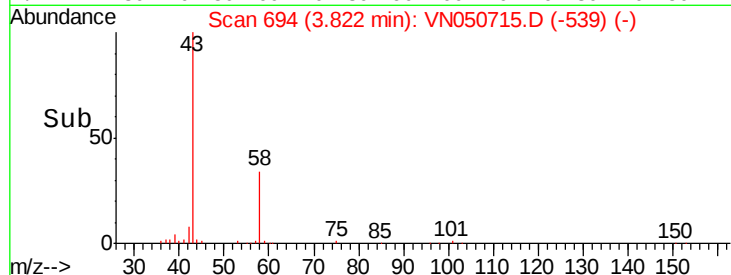
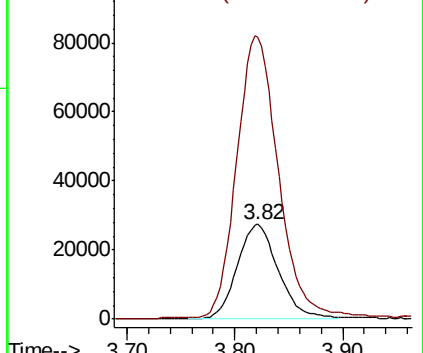
MMDadoda

8/20/2018 10:35:48 AM



Abundance Ion 58.00 (57.70 to 58.70): VN050715.D (-539) (-)

Ion 43.00 (42.70 to 43.70): VN050715.D (-539) (-)



#16

Carbon Disulfide

Concen: 20.52 ug/l

RT: 4.05 min Scan# 766

Delta R.T. 0.00 min

Lab File: VN050715.D

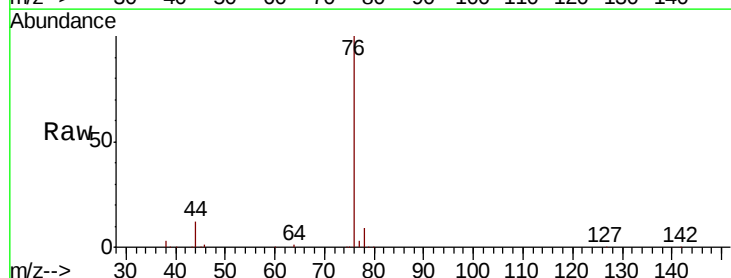
Acq: 17 Aug 2018 8:00

Tgt Ion: 76 Resp: 411041

Ion Ratio Lower Upper

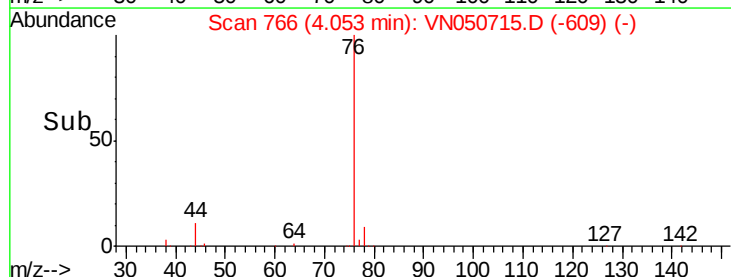
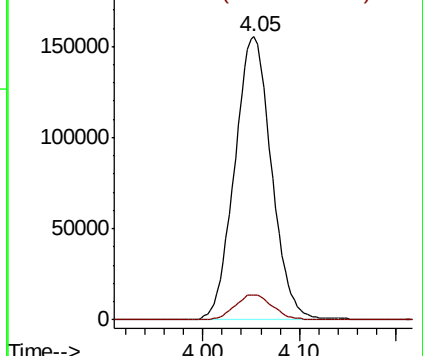
76 100

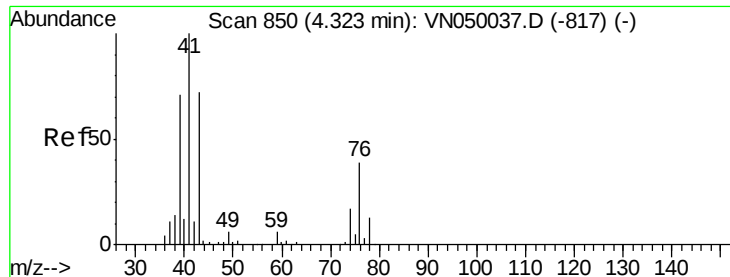
78 9.0 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN050715.D (-609) (-)

Ion 78.00 (77.70 to 78.70): VN050715.D (-609) (-)





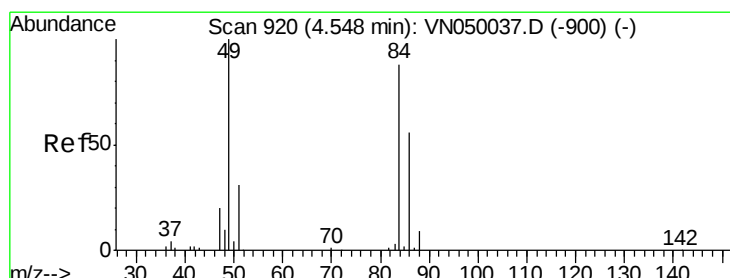
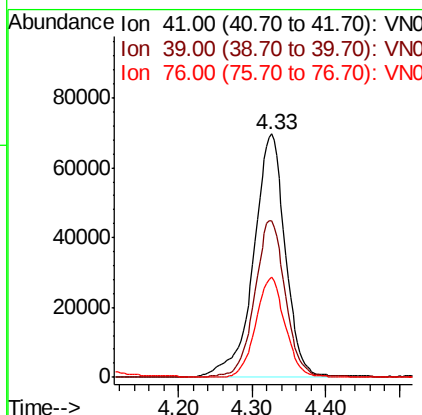
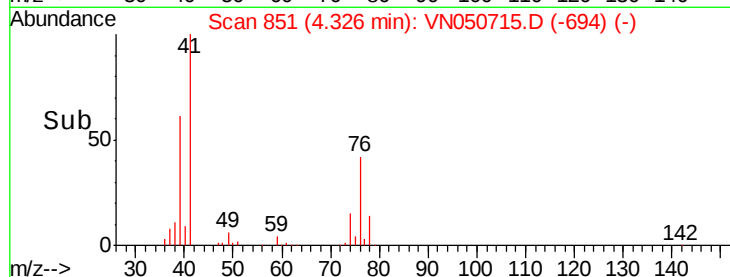
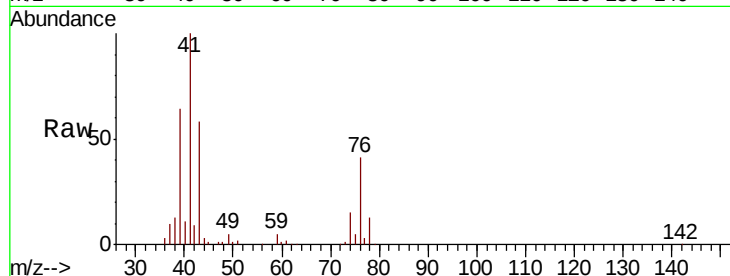
#17
Allvl chloride
Concen: 20.19 ug/l
RT: 4.33 min Scan# 851
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
41	100		
39	64.1	35.4	106.3
76	40.8	19.7	59.1

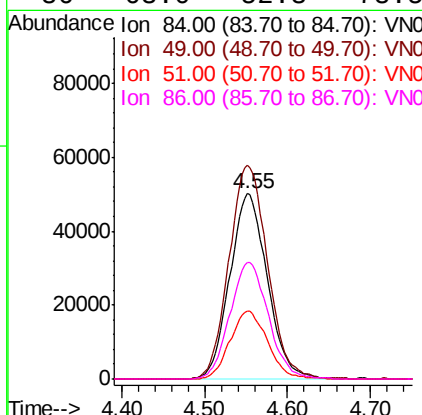
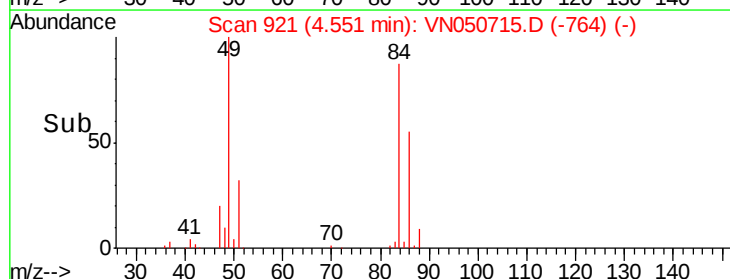
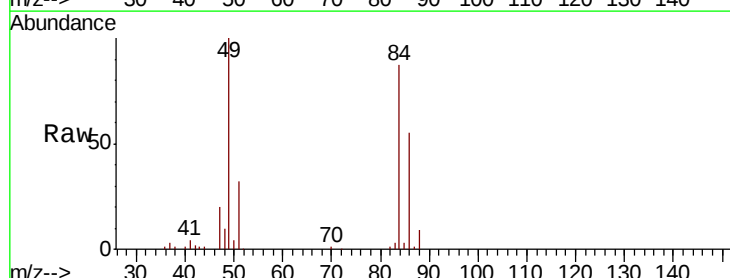
Manual Integrations
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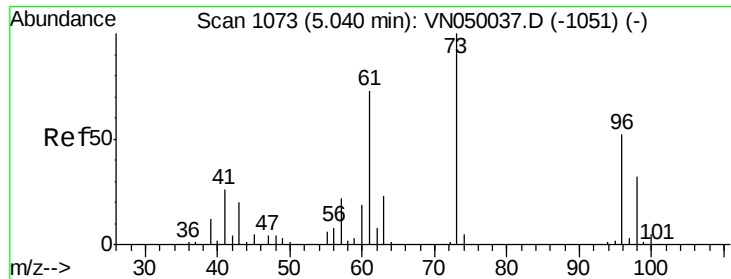
MMDadoda
8/20/2018 10:35:48 AM



#18
Methylene Chloride
Concen: 20.87 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Lower	Upper
84	100		
49	115.4	95.1	142.7
51	36.4	28.8	43.2
86	63.0	52.3	78.5





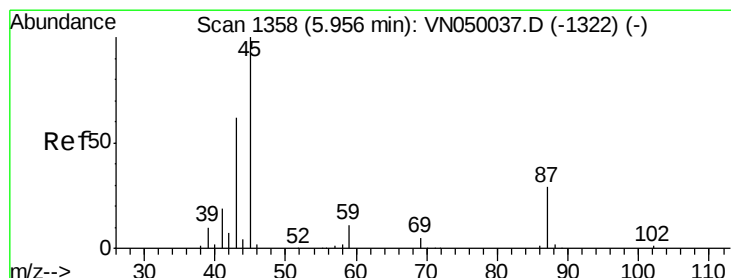
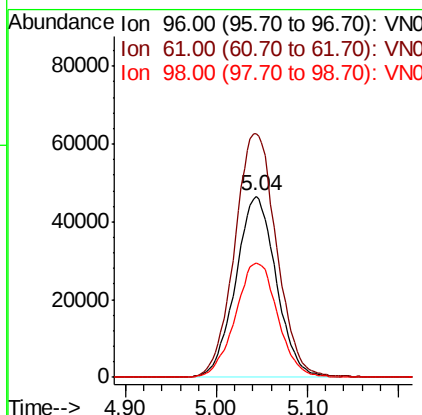
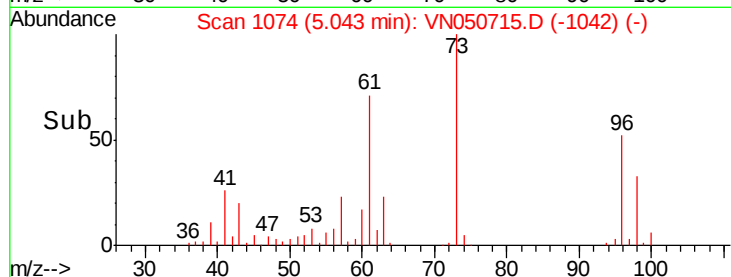
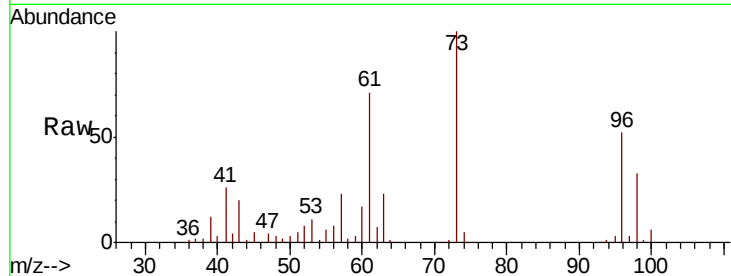
#19
trans-1,2-Dichloroethene
Concen: 20.55 ug/l
RT: 5.04 min Scan# 1074
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
96	100		
61	134.5	112.1	168.1
98	62.9	51.3	76.9

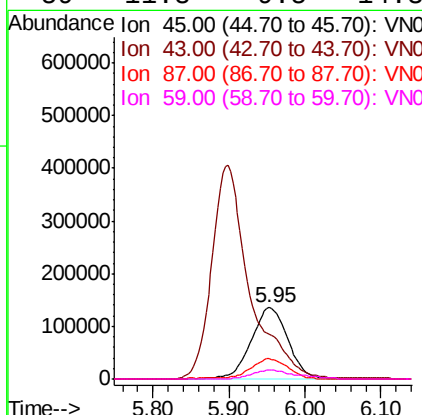
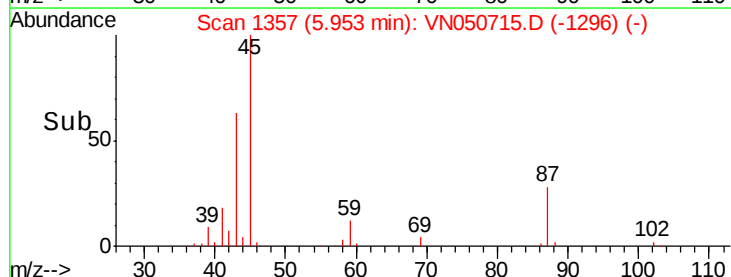
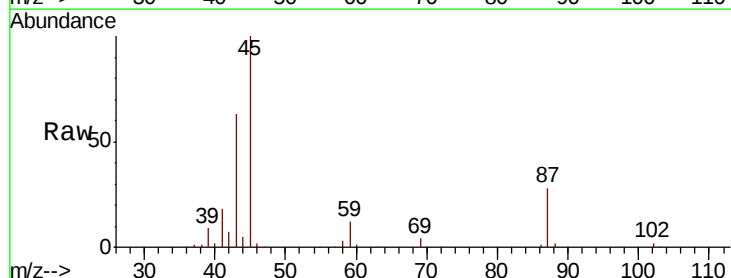
Manual Integrations
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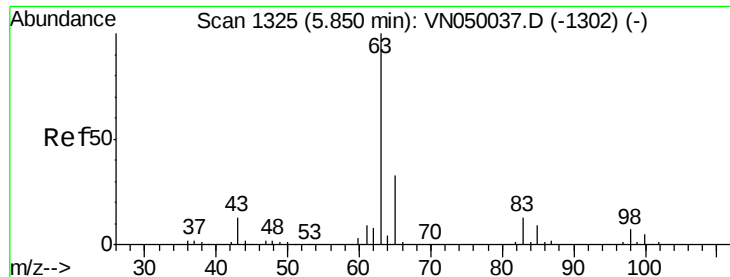
MMDadoda
8/20/2018 10:35:48 AM



#20
Diisopropyl ether
Concen: 21.41 ug/l
RT: 5.95 min Scan# 1357
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Lower	Upper
45	100		
43	60.9	46.6	70.0
87	27.8	22.3	33.5
59	11.8	9.5	14.3





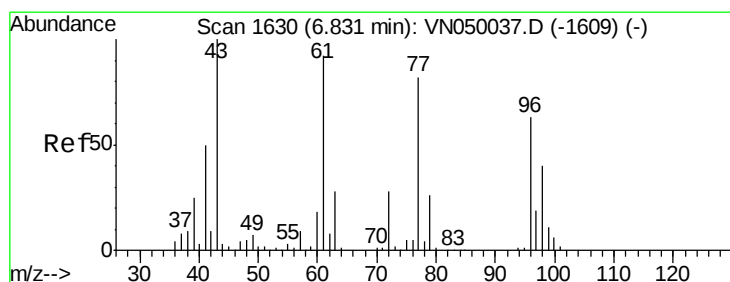
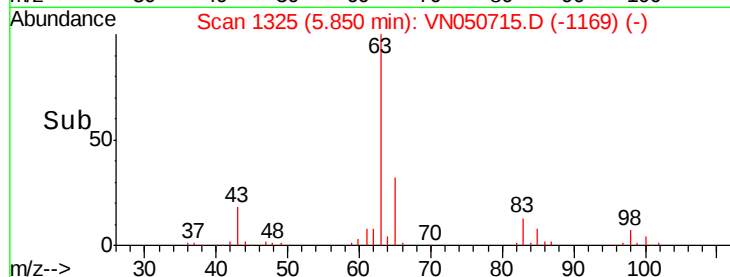
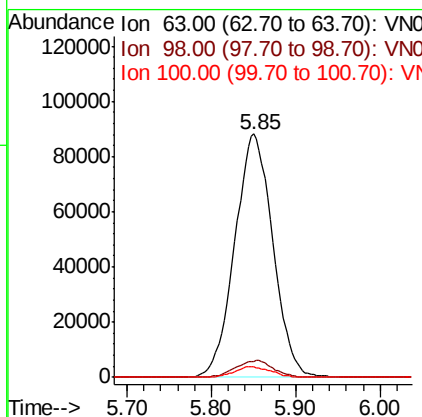
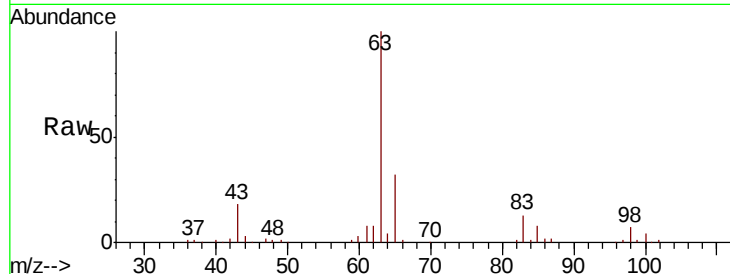
#21
 1,1-Dichloroethane
 Concen: 20.78 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. 0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
63	100	276923		
98	6.7		3.5	10.6
100	4.2		2.3	6.8

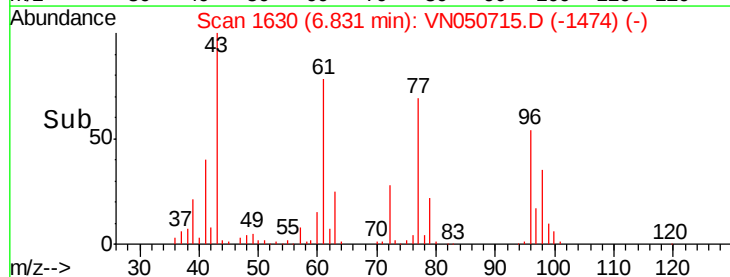
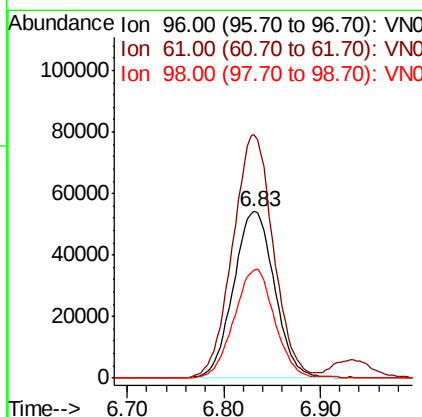
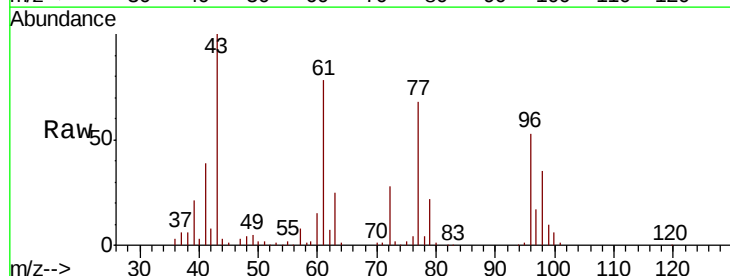
Manual Integrations
 APPROVED

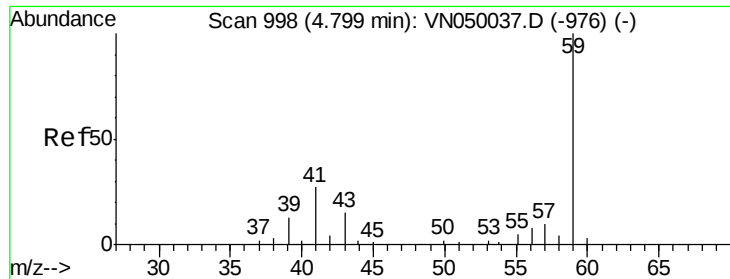
MMDadoda
 8/20/2018 10:35:48 AM



#22
 cis-1,2-Dichloroethene
 Concen: 20.61 ug/l
 RT: 6.83 min Scan# 1630
 Delta R.T. 0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Resp	Lower	Upper
96	100	160177		
61	144.4		114.2	171.2
98	64.4		51.7	77.5





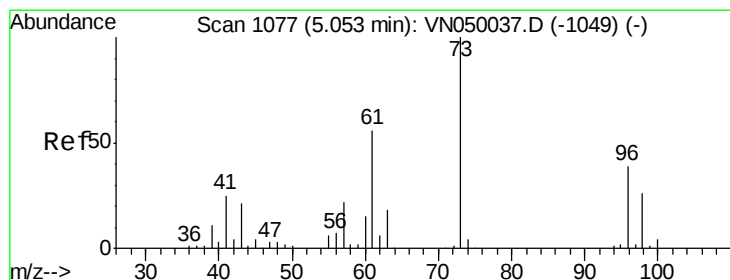
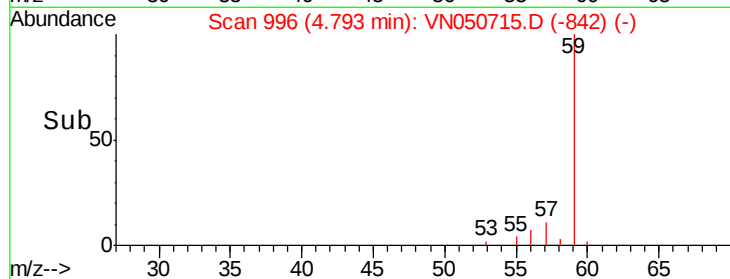
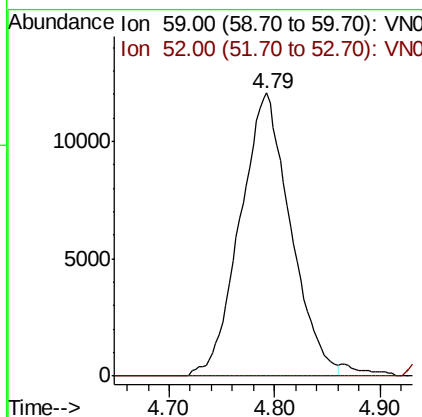
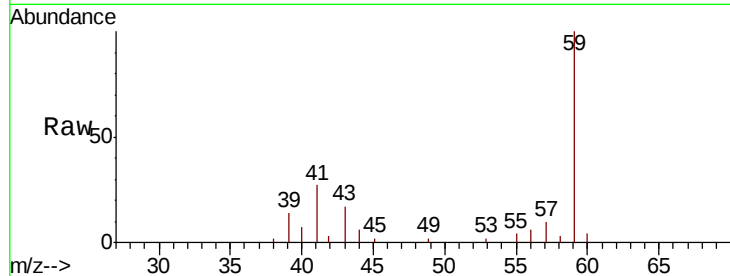
#23
 tert-Butyl Alcohol
 Concen: 71.72 ug/l
 RT: 4.79 min Scan# 996
 Delta R.T. -0.01 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
59	100		
52	0.0	0.1	0.1#

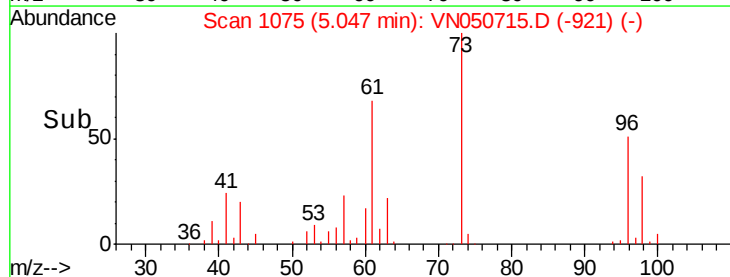
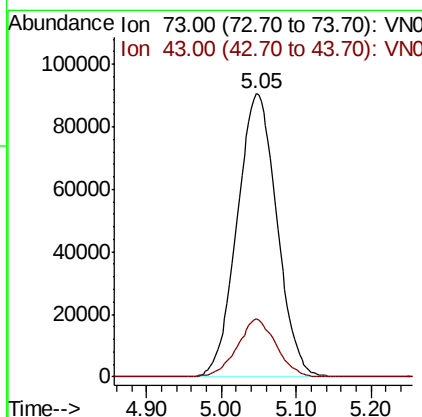
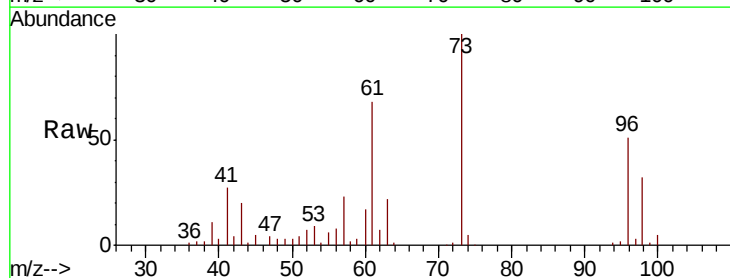
Manual Integrations
 APPROVED

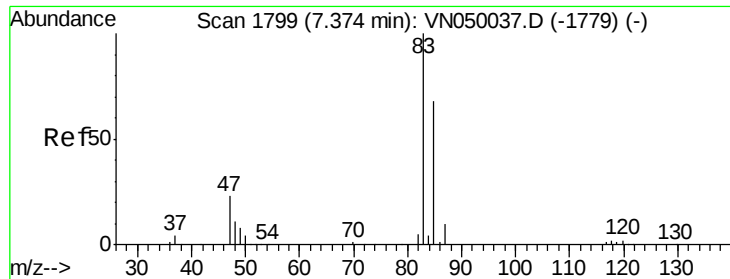
MMDadoda
 8/20/2018 10:35:48 AM



#24
 Methyl tert-Butyl Ether
 Concen: 18.75 ug/l
 RT: 5.05 min Scan# 1075
 Delta R.T. -0.01 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Lower	Upper
73	100		
43	19.5	15.5	23.3





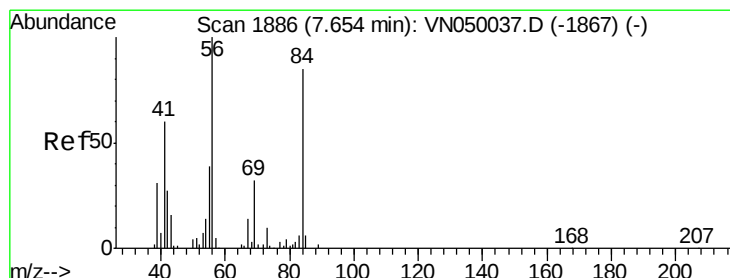
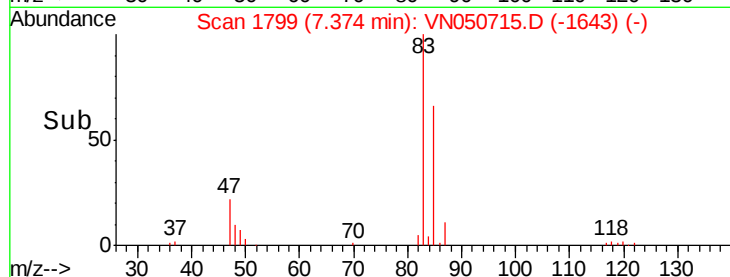
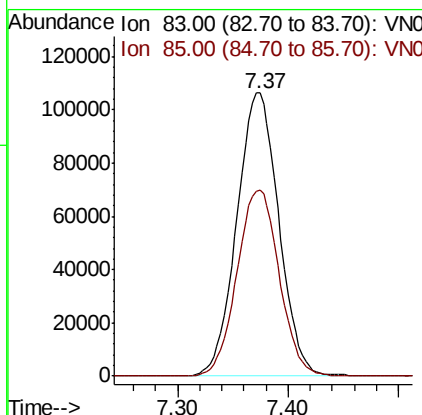
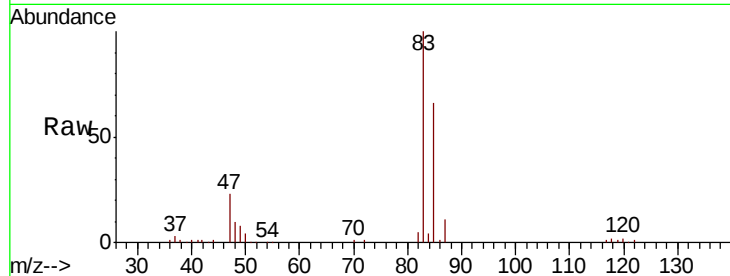
#25
Chloroform
Concen: 20.75 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	83	Resp	279858
Ion Ratio	100	Lower	Upper
83	100		
85	65.8	52.1	78.1

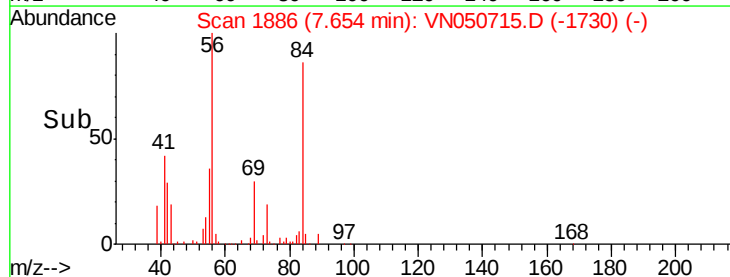
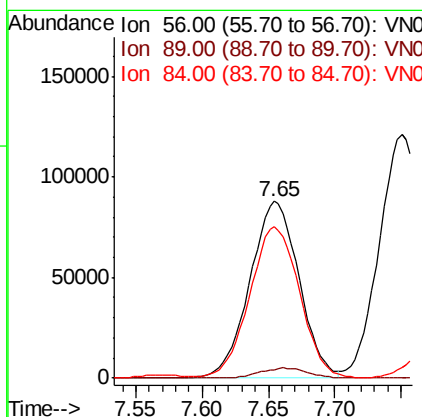
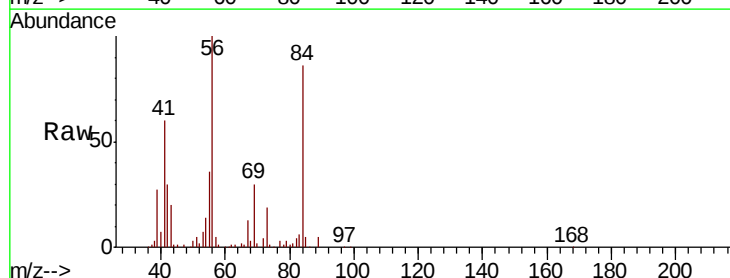
Manual Integrations
APPROVED

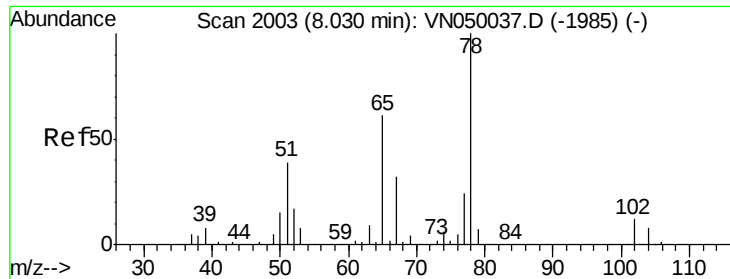
MMDadoda
8/20/2018 10:35:48 AM



#26
Cyclohexane
Concen: 21.42 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	56	Resp	226813
Ion Ratio	100	Lower	Upper
56	100		
89	5.6	3.0	4.4#
84	87.3	69.8	104.8





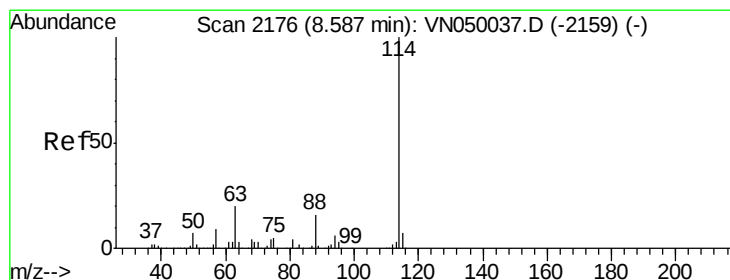
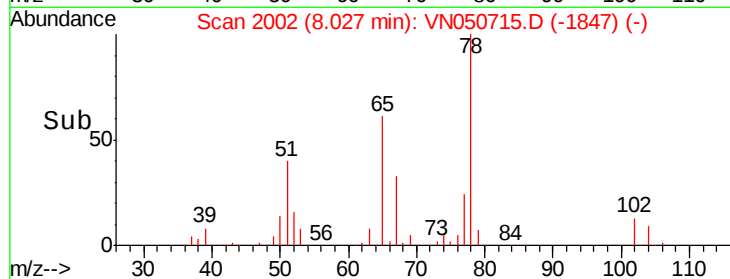
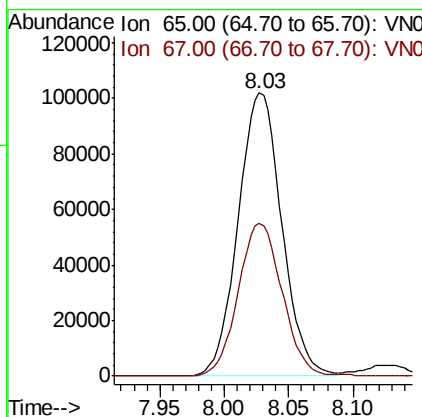
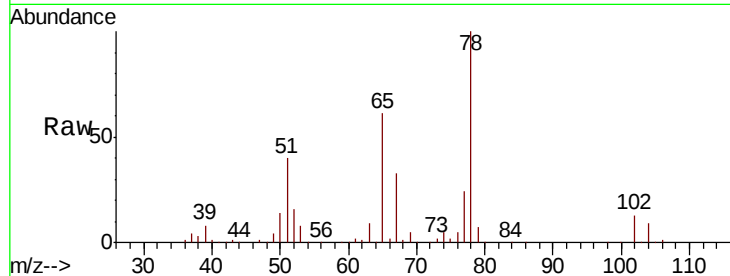
#27
 1,2-Dichloroethane-d4
 Concen: 28.88 ug/l
 RT: 8.03 min Scan# 2002
 Delta R.T. -0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
65	100	240930		
67	54.2	42.7	64.1	

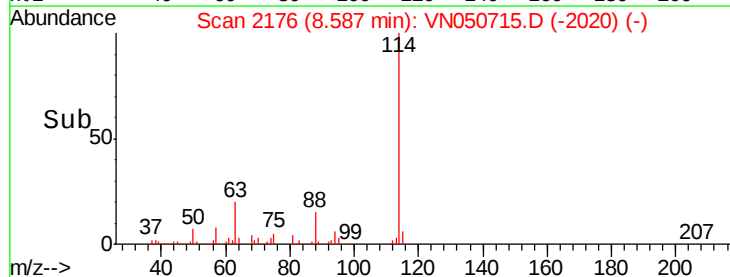
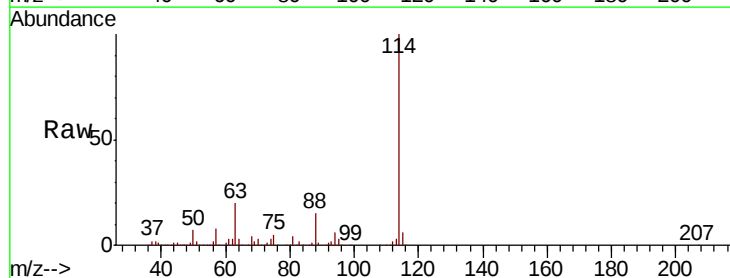
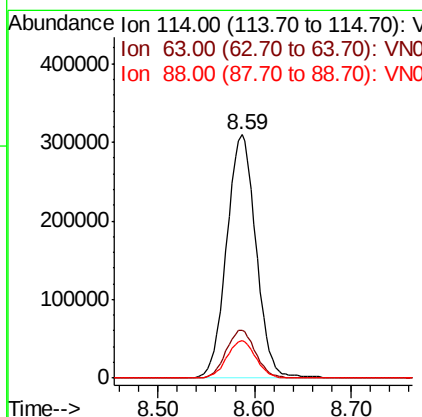
Manual Integrations
 APPROVED

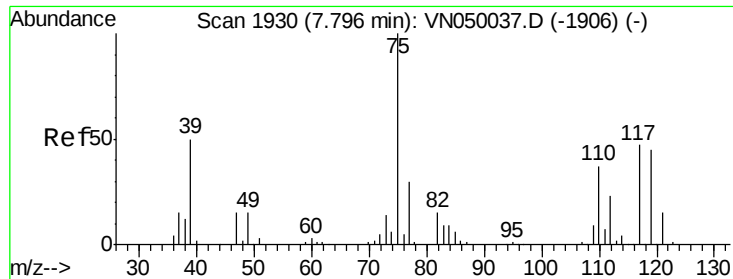
MMDadoda
 8/20/2018 10:35:48 AM



#28
 1,4-Difluorobenzene
 Concen: 30.00 ug/l
 RT: 8.59 min Scan# 2176
 Delta R.T. 0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Resp	Lower	Upper
114	100	652337		
63	19.6	16.2	24.2	
88	15.3	12.3	18.5	





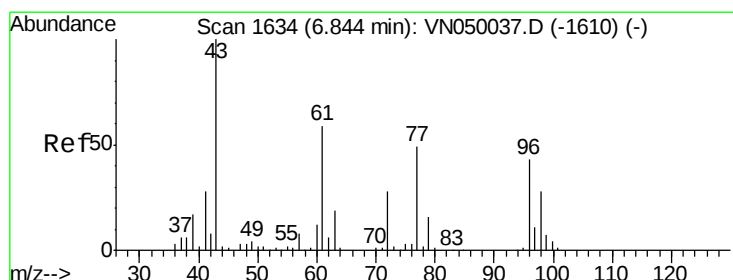
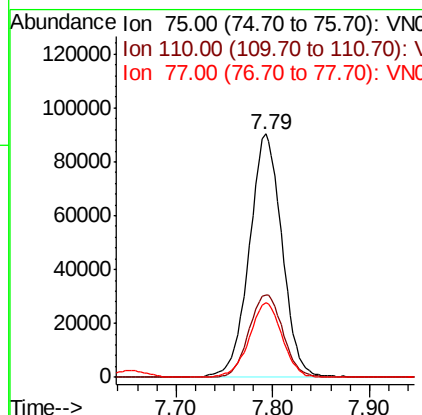
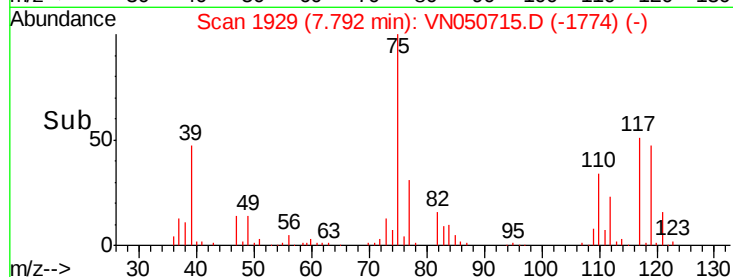
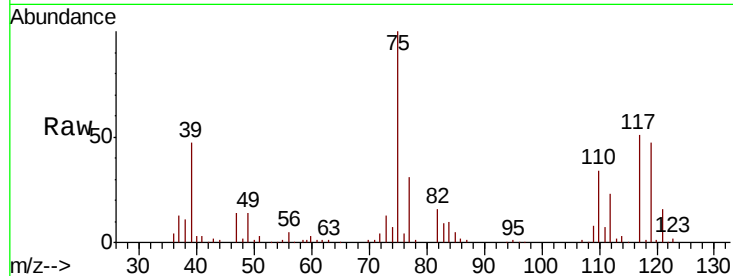
#29
 1,1-Dichloropropene
 Concen: 20.93 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp Lower	Upper
75	100		
110	35.3	0.0	73.2
77	31.0	0.0	62.0

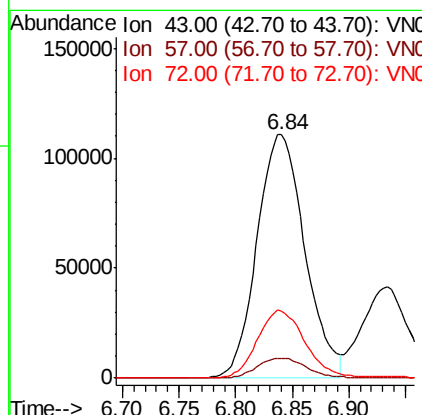
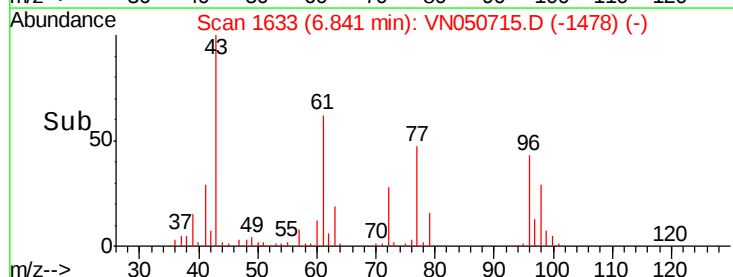
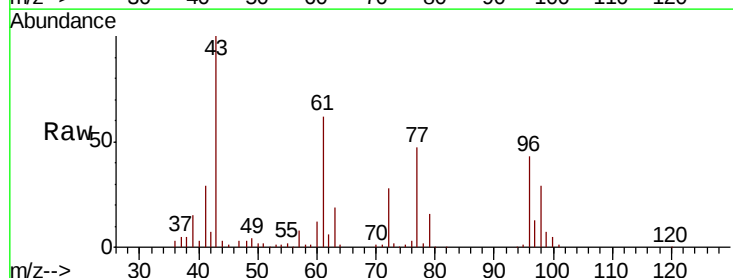
Manual Integrations
 APPROVED

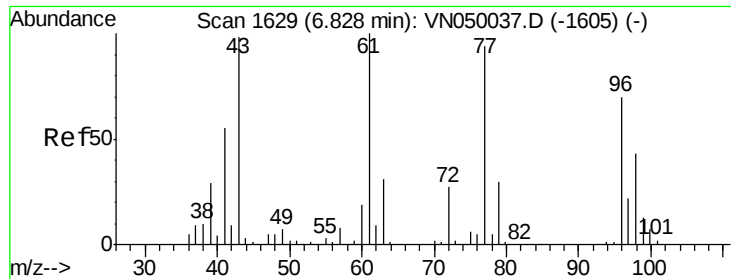
MMDadoda
 8/20/2018 10:35:48 AM



#30
 2-Butanone
 Concen: 101.80 ug/l
 RT: 6.84 min Scan# 1633
 Delta R.T. -0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Resp Lower	Upper
43	100		
57	8.5	6.8	10.2
72	27.9	21.4	32.0





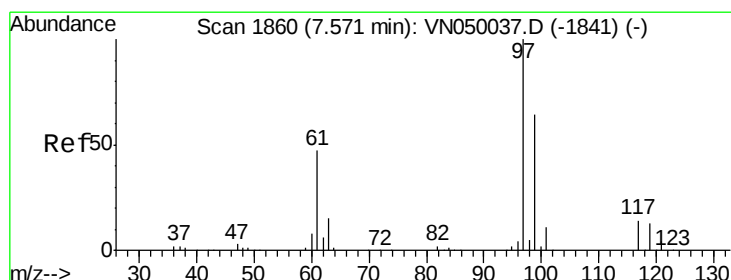
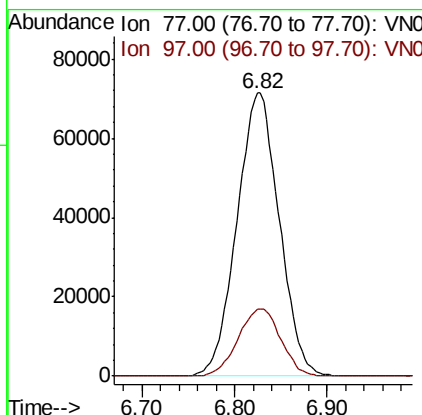
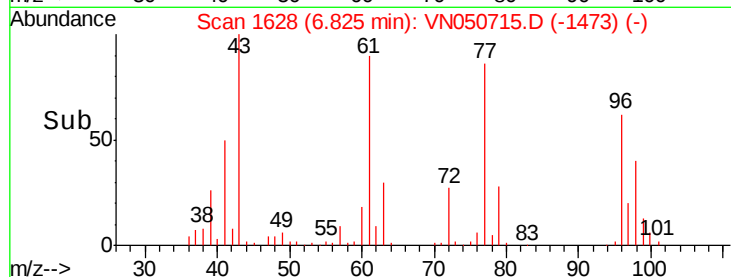
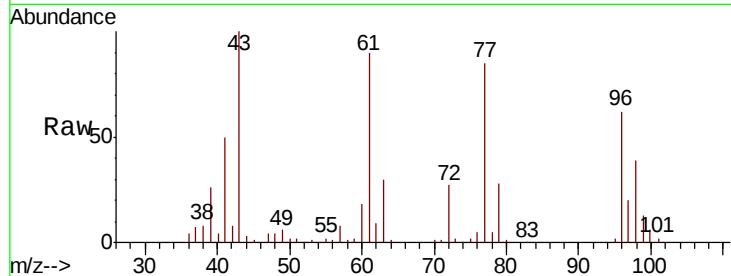
#31
 2,2-Dichloropropane
 Concen: 20.20 ug/l
 RT: 6.82 min Scan# 1628
 Delta R.T. -0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion: 77 Resp: 226053
 Ion Ratio Lower Upper
 77 100
 97 24.0 18.9 28.3

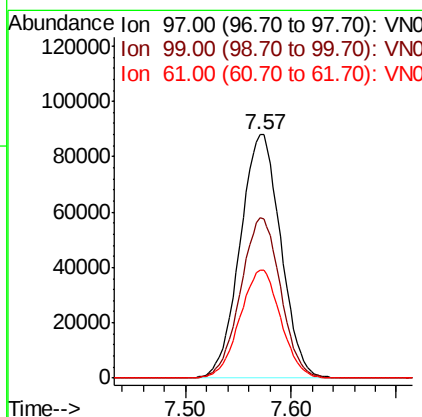
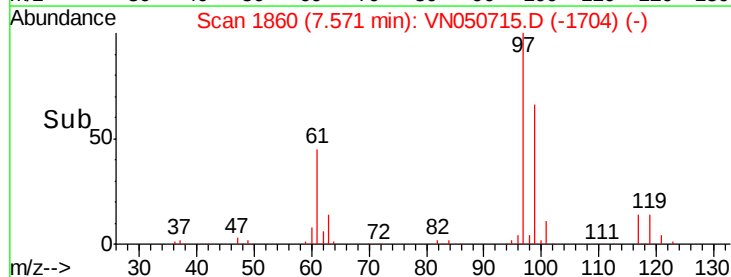
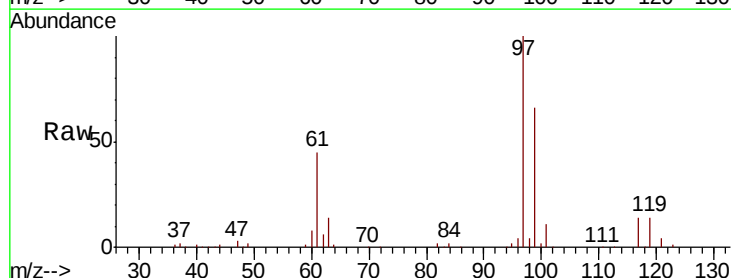
Manual Integrations
 APPROVED

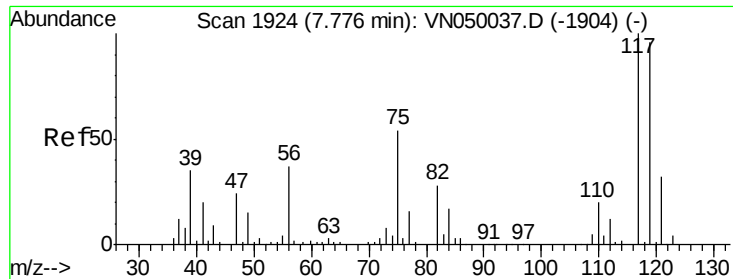
MMDadoda
 8/20/2018 10:35:48 AM



#32
 1,1,1-Trichloroethane
 Concen: 19.81 ug/l
 RT: 7.57 min Scan# 1860
 Delta R.T. 0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Tgt Ion: 97 Resp: 236028
 Ion Ratio Lower Upper
 97 100
 99 64.7 51.2 76.8
 61 44.5 35.3 52.9





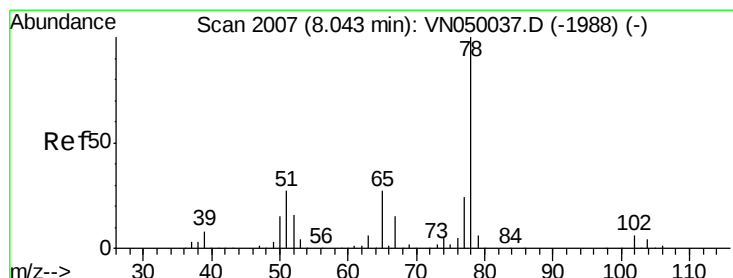
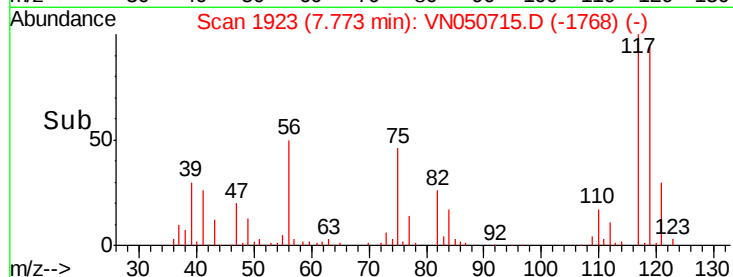
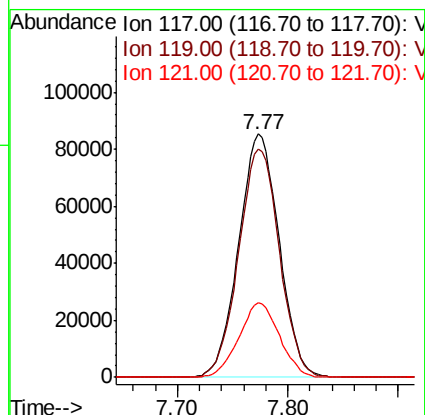
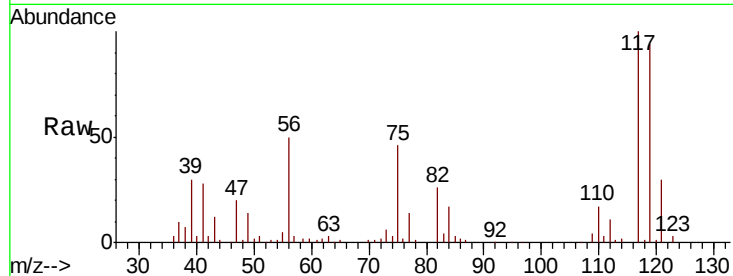
#33
Carbon Tetrachloride
Concen: 20.40 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
117	100		
119	93.9	76.9	115.3
121	30.4	24.4	36.6

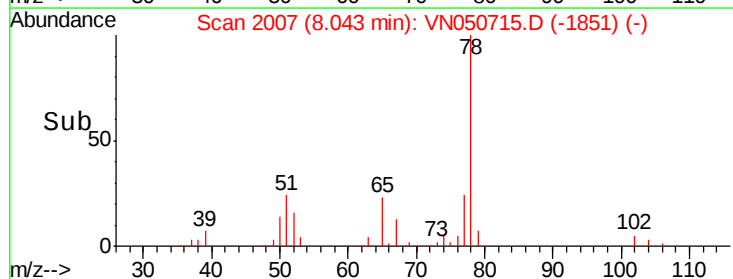
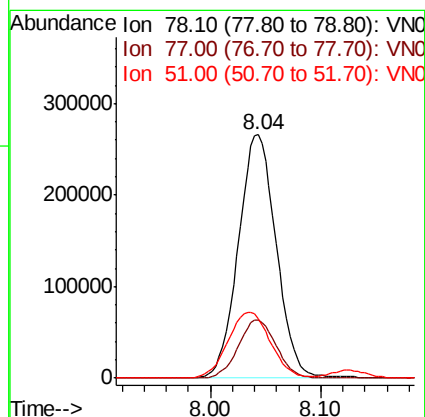
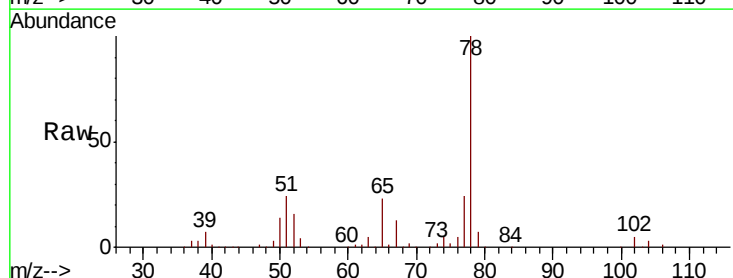
Manual Integrations
APPROVED

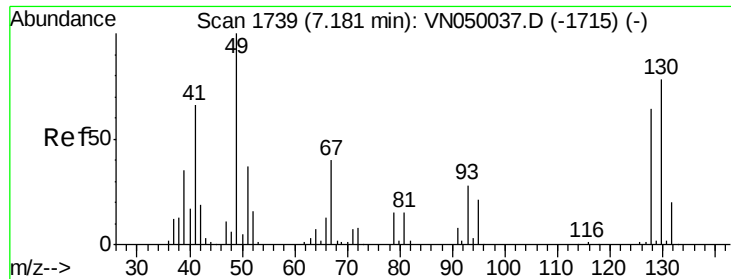
MMDadoda
8/20/2018 10:35:48 AM



#34
Benzene
Concen: 20.56 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.8	19.1	28.7
51	24.2	21.0	31.4





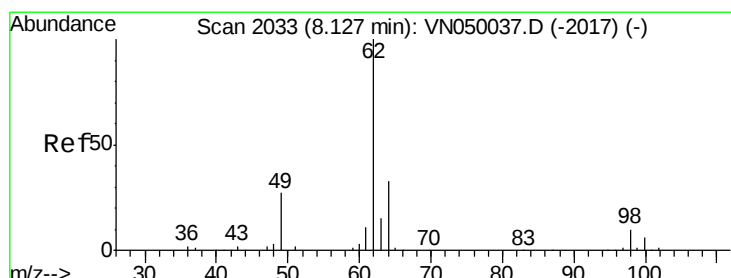
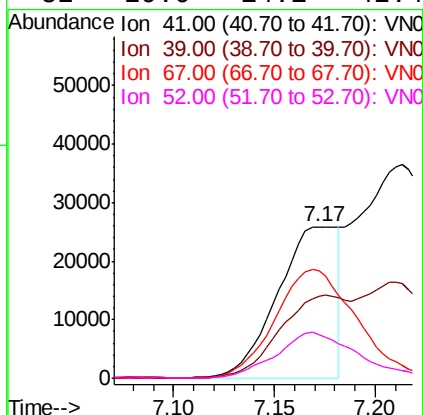
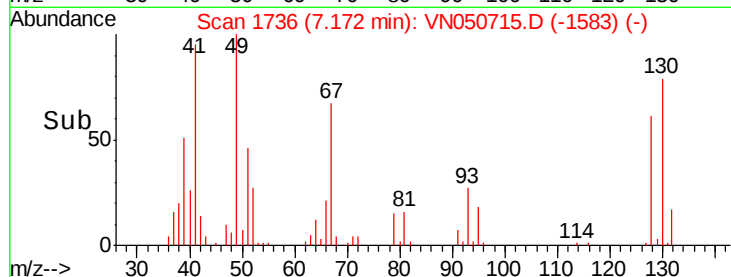
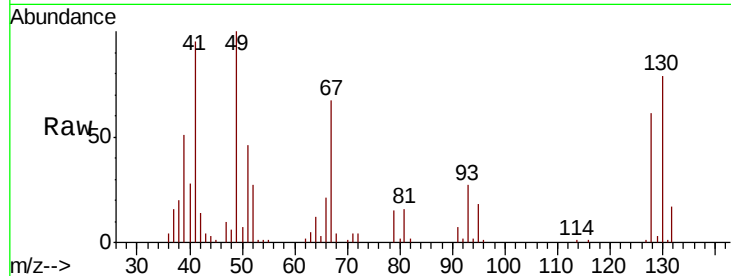
#35
Methacrylonitrile
Concen: 14.79 ug/l
RT: 7.17 min Scan# 1736
Delta R.T. -0.01 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	54.1	27.6	82.7	
67	71.2	35.1	105.5	
52	29.0	14.1	42.4	

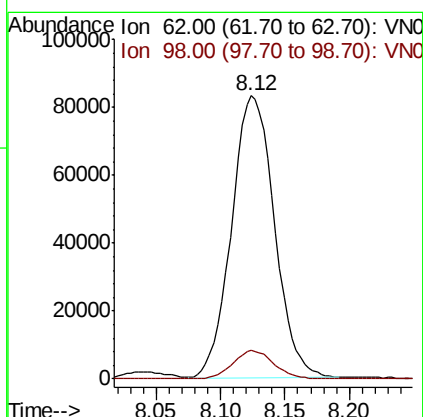
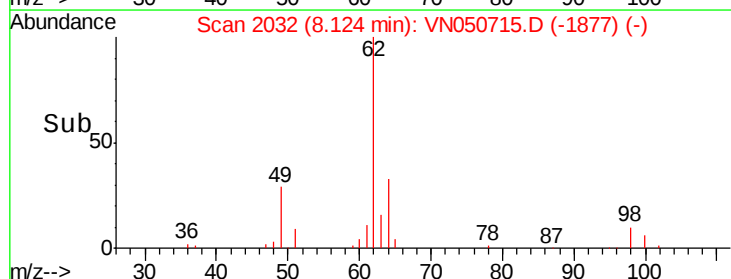
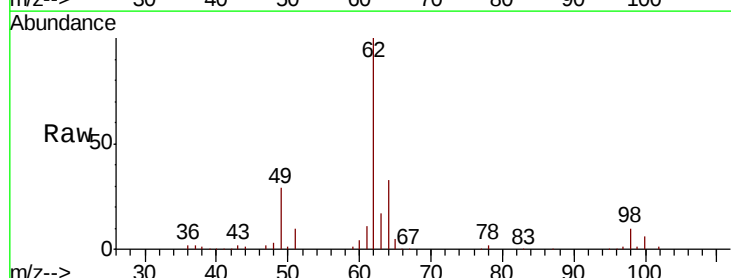
Manual Integrations
APPROVED

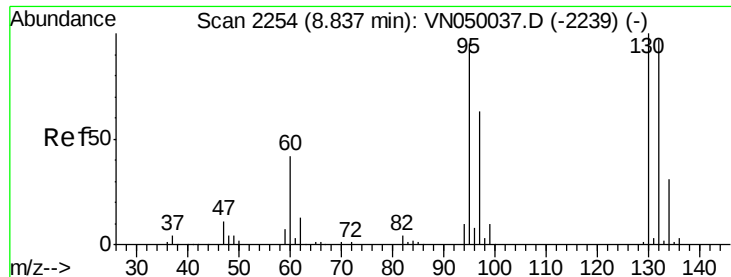
MMDadoda
8/20/2018 10:35:48 AM



#36
1,2-Dichloroethane
Concen: 19.03 ug/l
RT: 8.12 min Scan# 2032
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.7	7.8	11.6	





#37

Trichloroethene

Concen: 20.33 ug/l

RT: 8.83 min Scan# 2253

Delta R.T. -0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion:130 Resp: 163922

Ion Ratio Lower Upper

130 100

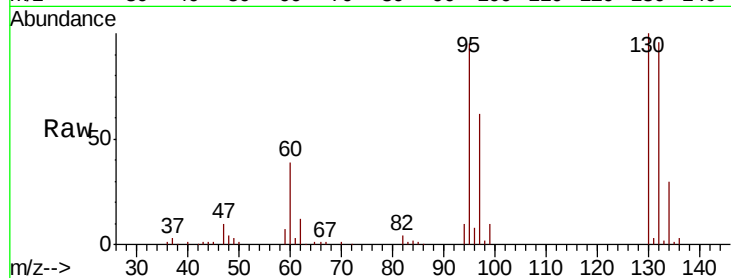
95 94.8 79.7 119.5

Manual Integrations

APPROVED

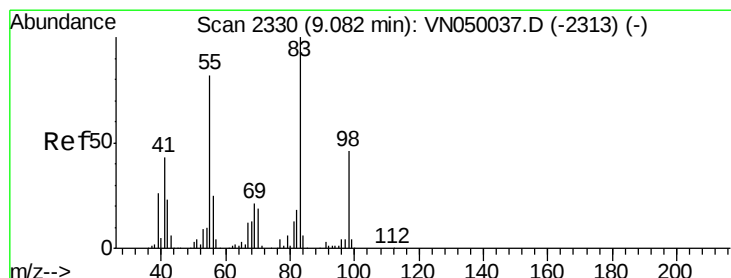
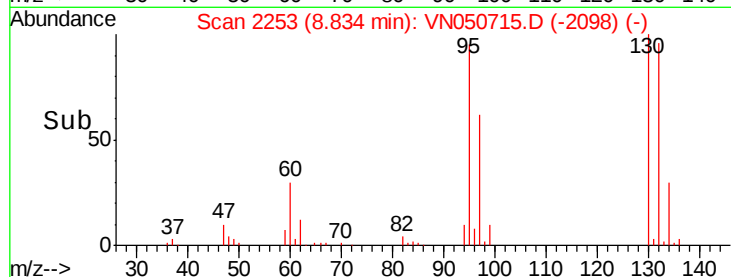
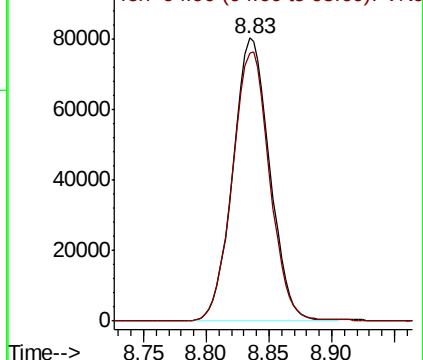
MMDadoda

8/20/2018 10:35:48 AM



Abundance Ion 129.90 (129.60 to 130.60): V

Ion 94.90 (94.60 to 95.60): VN



#38

Methylcyclohexane

Concen: 20.31 ug/l

RT: 9.08 min Scan# 2330

Delta R.T. 0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

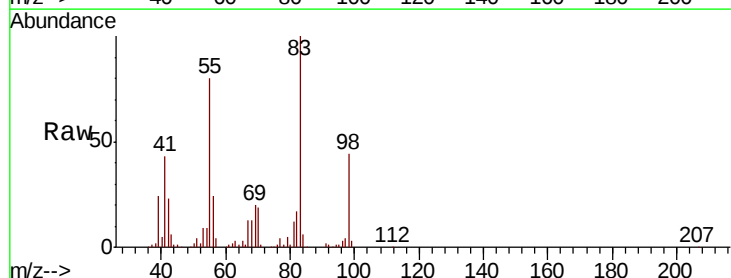
Tgt Ion: 83 Resp: 216720

Ion Ratio Lower Upper

83 100

55 79.4 39.3 117.8

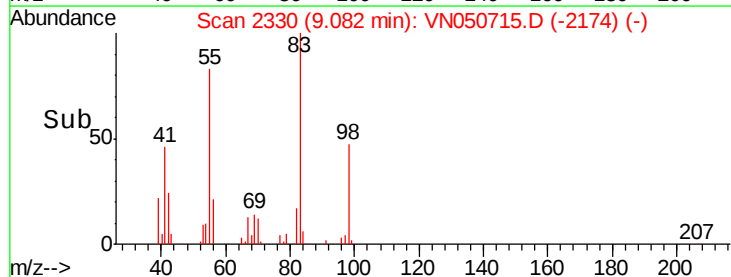
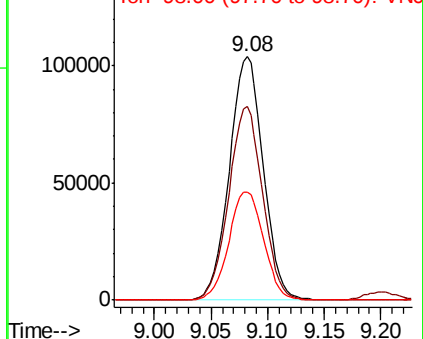
98 45.9 23.0 69.0

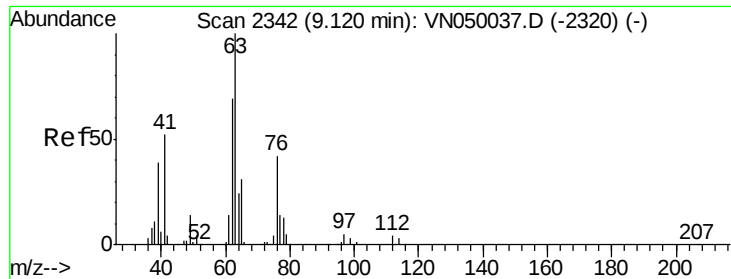


Abundance Ion 83.00 (82.70 to 83.70): VN

Ion 55.00 (54.70 to 55.70): VN

Ion 98.00 (97.70 to 98.70): VN





#39

1,2-Dichloropropane

Concen: 21.15 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. 0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 63 Resp: 171304

Ion Ratio Lower Upper

63 100

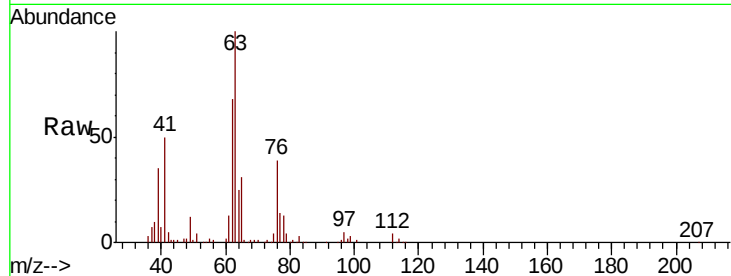
65 31.5 24.2 36.2

Manual Integrations

APPROVED

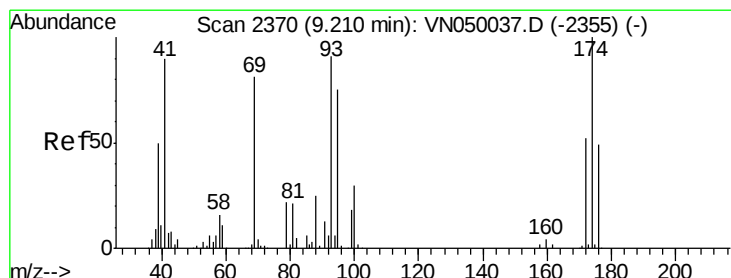
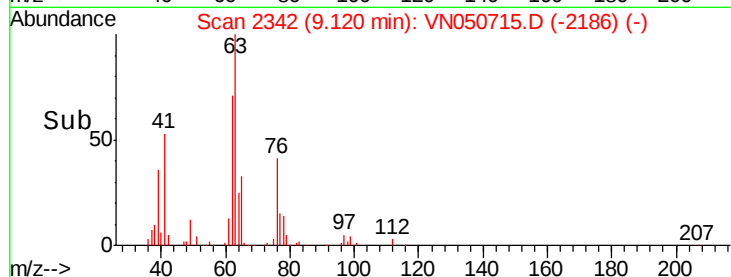
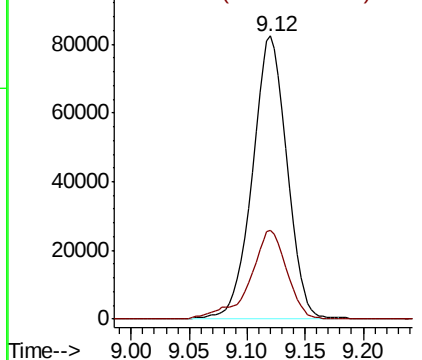
MMDadoda

8/20/2018 10:35:48 AM



Abundance Ion 63.00 (62.70 to 63.70): VN0

Ion 65.00 (64.70 to 65.70): VN0



#40

Dibromomethane

Concen: 19.69 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. 0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

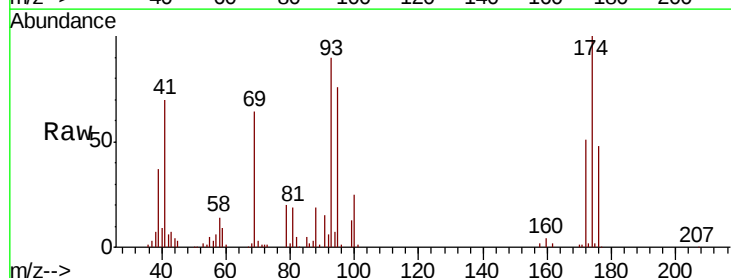
Tgt Ion: 93 Resp: 98563

Ion Ratio Lower Upper

93 100

95 82.2 0.0 165.6

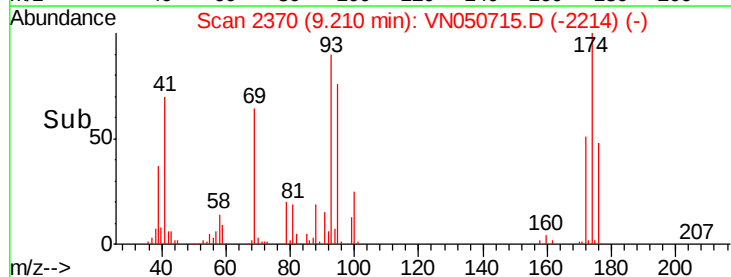
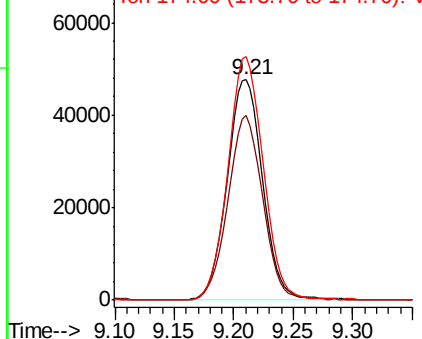
174 109.6 0.0 223.2

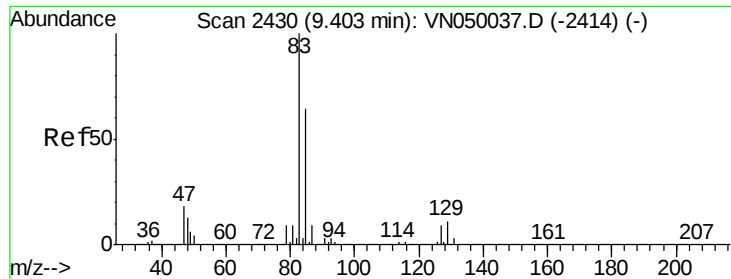


Abundance Ion 93.00 (92.70 to 93.70): VN0

Ion 95.00 (94.70 to 95.70): VN0

Ion 174.00 (173.70 to 174.70): V





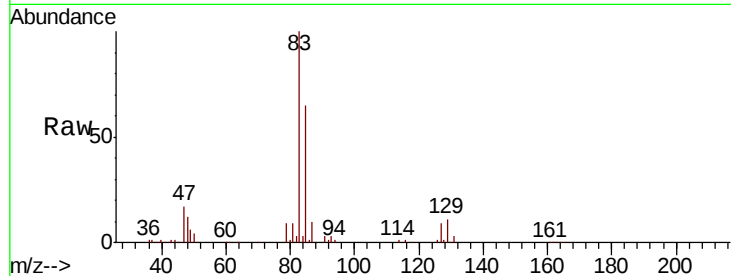
#41
Bromodichloromethane
Concen: 19.83 ug/l
RT: 9.40 min Scan# 2430
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

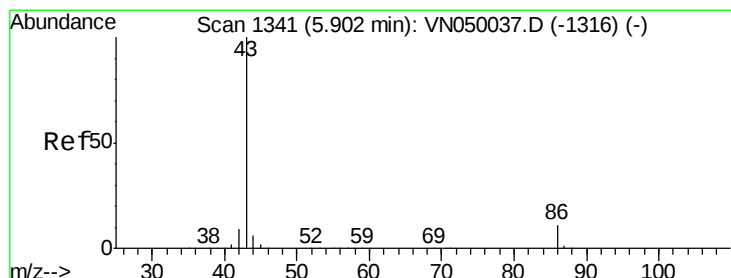
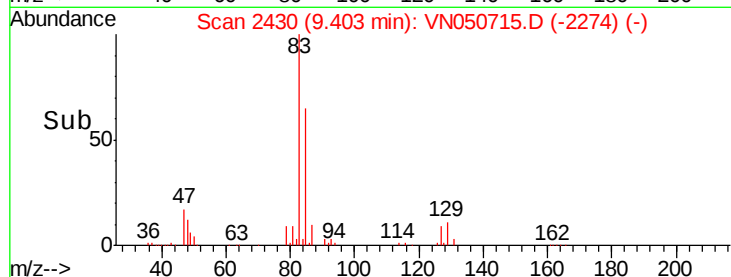
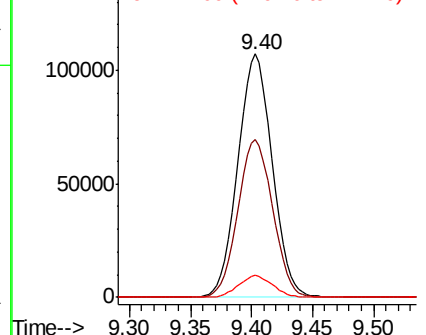
Tot Ion	Ratio	Lower	Upper
83	100		
85	64.6	52.6	78.8
127	9.0	7.0	10.4

Manual Integrations
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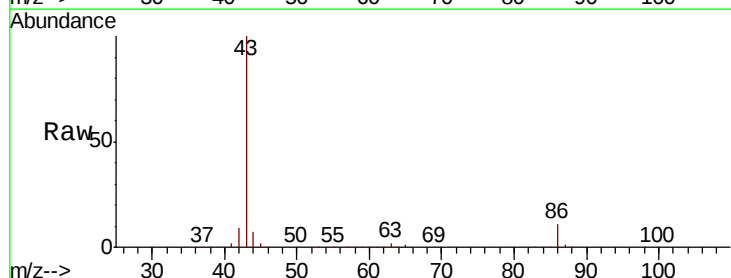


Abundance Ion 83.00 (82.70 to 83.70): VN0
Ion 85.00 (84.70 to 85.70): VN0
Ion 127.00 (126.70 to 127.70): V

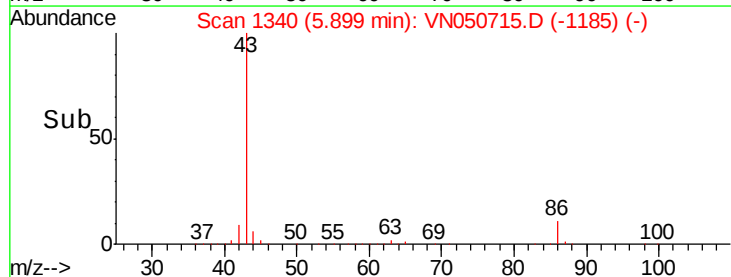
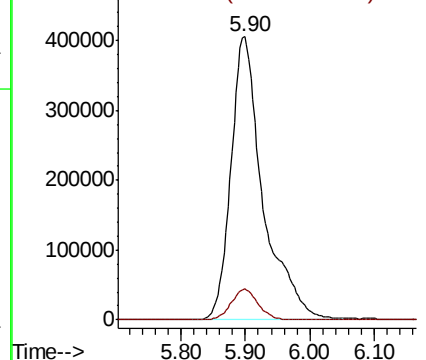


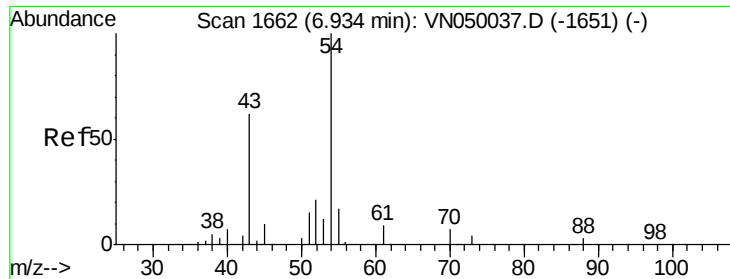
#42
Vinyl Acetate
Concen: 94.05 ug/l
RT: 5.90 min Scan# 1340
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Lower	Upper
43	100		
86	9.0	7.3	10.9



Abundance Ion 43.00 (42.70 to 43.70): VN0
Ion 86.00 (85.70 to 86.70): VN0





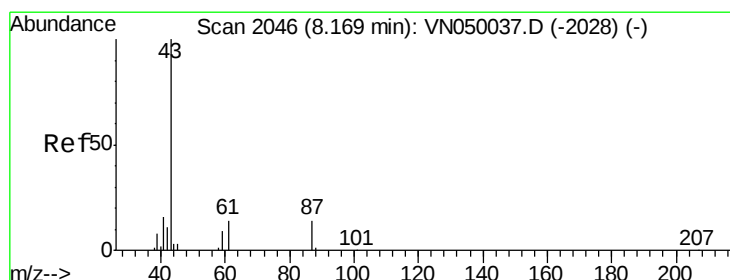
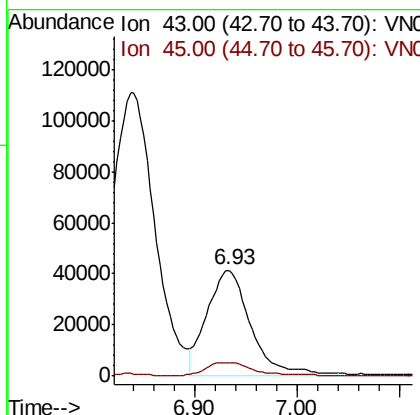
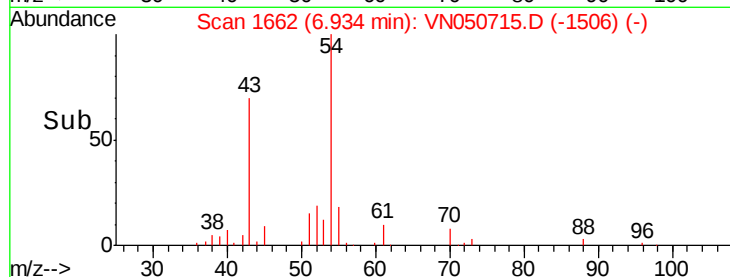
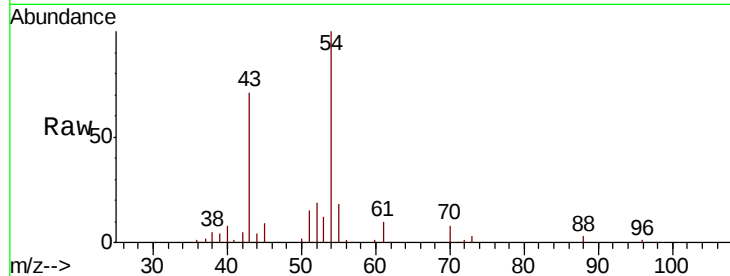
#43
Ethyl Acetate
Concen: 18.84 ug/l m
RT: 6.93 min Scan# 1662
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion: 43 Resp: 125008
Ion Ratio Lower Upper
43 100
45 0.0 13.0 19.6#

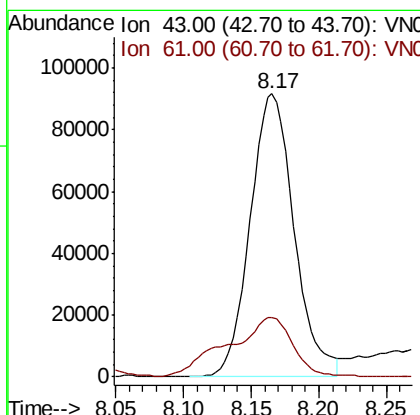
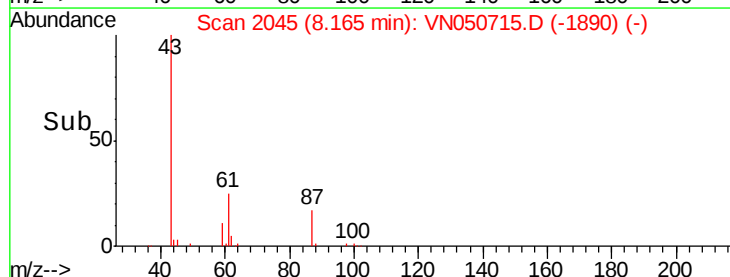
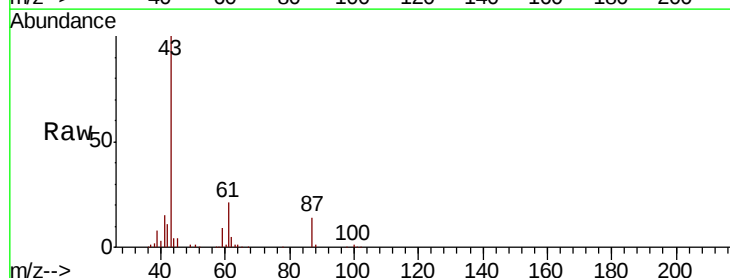
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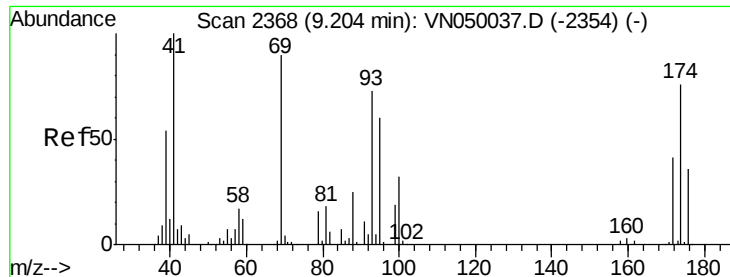
MMDadoda
8/20/2018 10:35:48 AM



#44
Isopropyl Acetate
Concen: 16.89 ug/l m
RT: 8.17 min Scan# 2045
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion: 43 Resp: 207516
Ion Ratio Lower Upper
43 100
61 0.1 16.4 24.6#





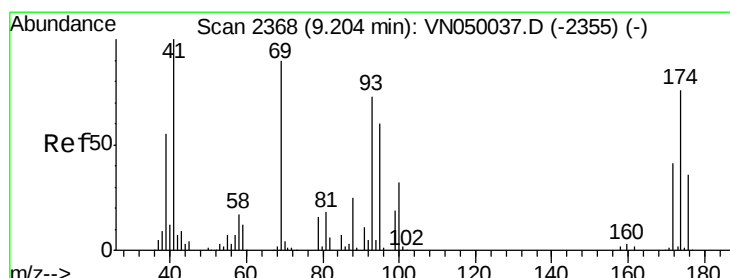
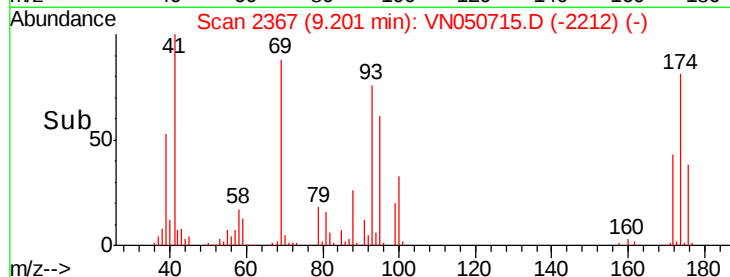
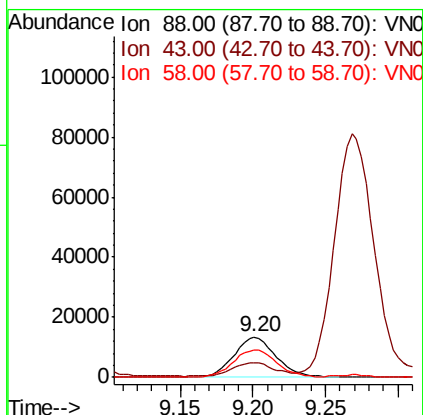
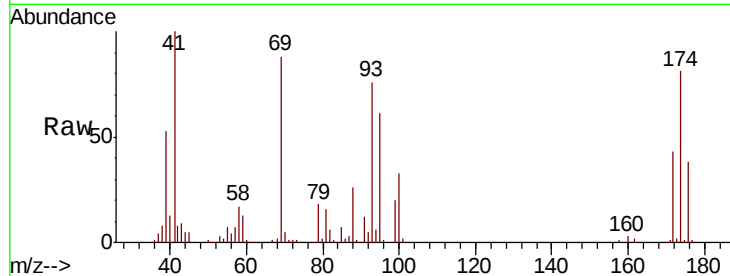
#45
1,4-Dioxane
Concen: 336.56 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
88	100		
43	33.1	26.9	40.3
58	70.1	53.6	80.4

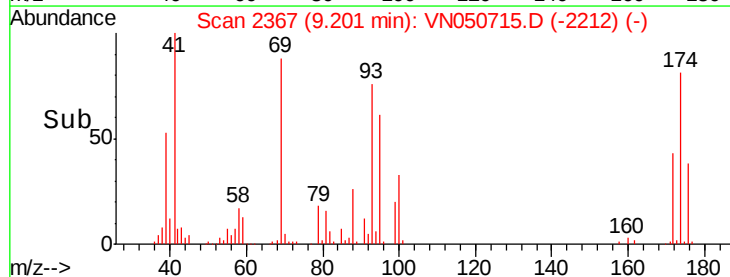
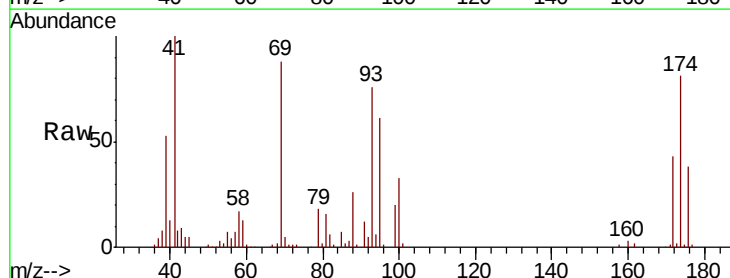
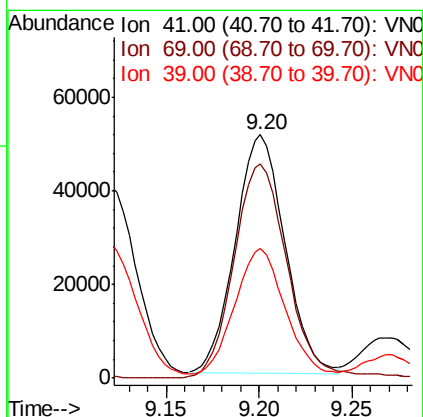
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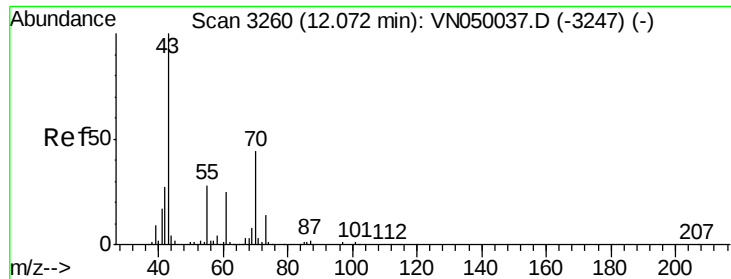
MMDadoda
8/20/2018 10:35:48 AM



#46
Methyl methacrylate
Concen: 15.98 ug/l
RT: 9.20 min Scan# 2367
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Lower	Upper
41	100		
69	89.1	44.0	132.1
39	52.9	27.0	80.8





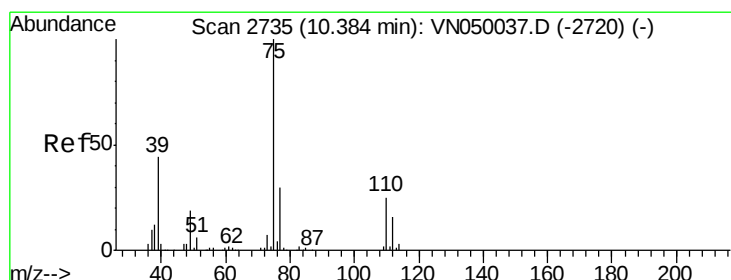
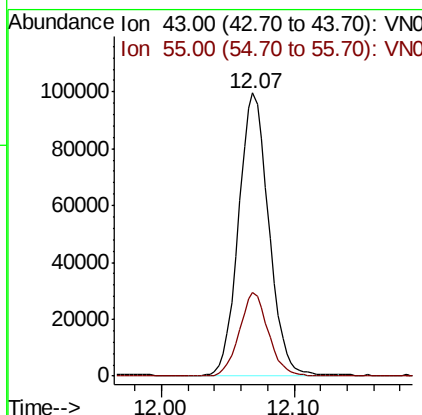
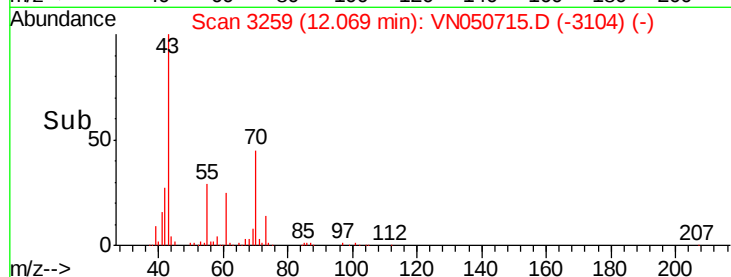
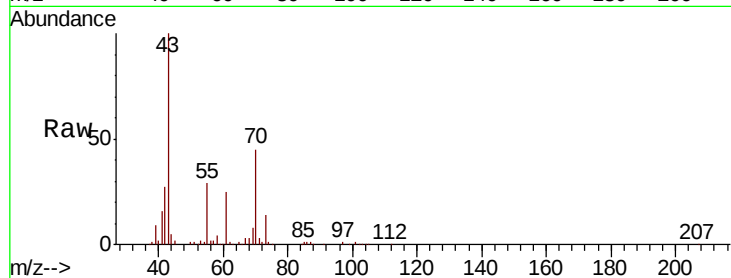
#47
n-amvl Acetate
Concen: 16.39 ug/l
RT: 12.07 min Scan# 3259
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion: 43 Resp: 156770
Ion Ratio Lower Upper
43 100
55 28.5 21.0 31.4

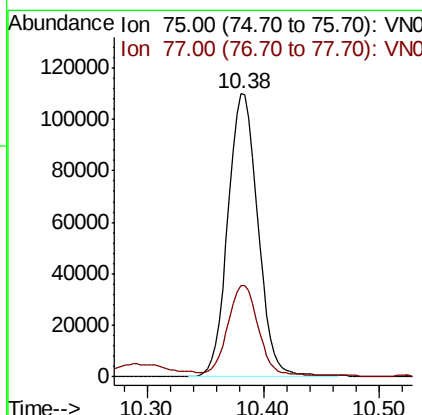
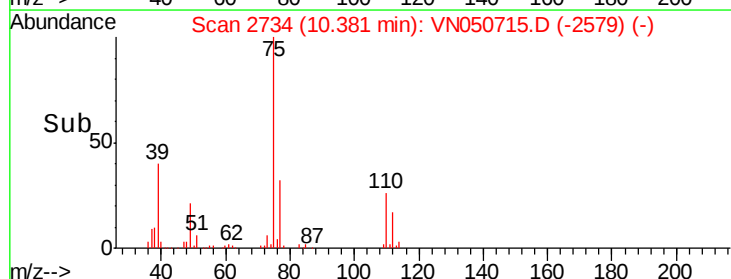
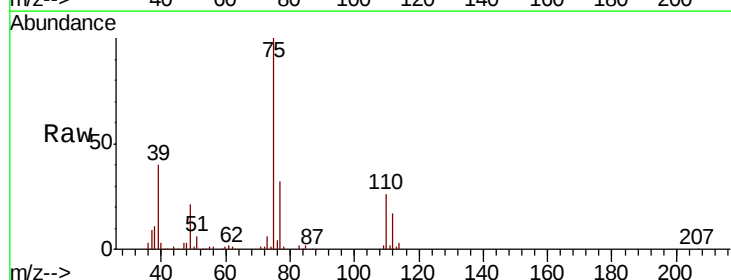
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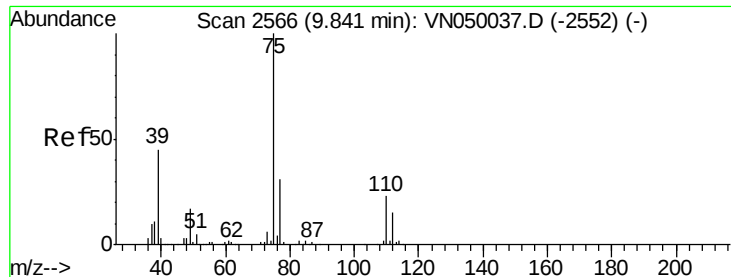
MMDadoda
8/20/2018 10:35:48 AM



#48
t-1,3-Dichloropropene
Concen: 19.66 ug/l
RT: 10.38 min Scan# 2734
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion: 75 Resp: 197896
Ion Ratio Lower Upper
75 100
77 31.6 24.6 37.0





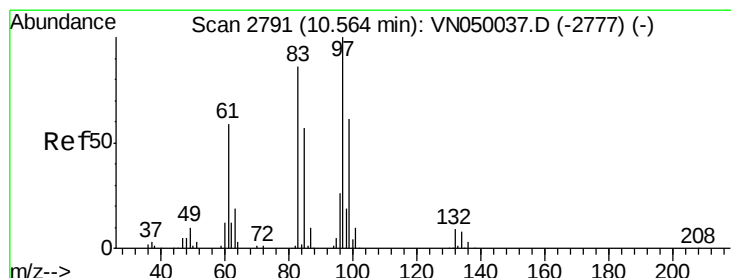
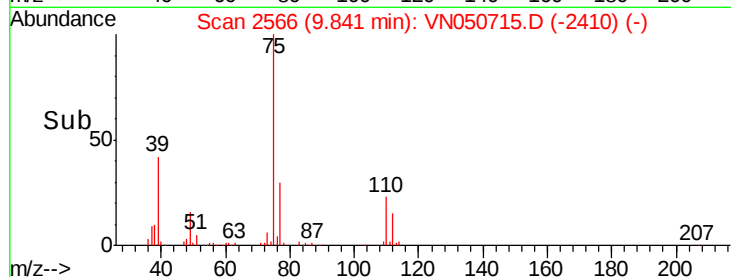
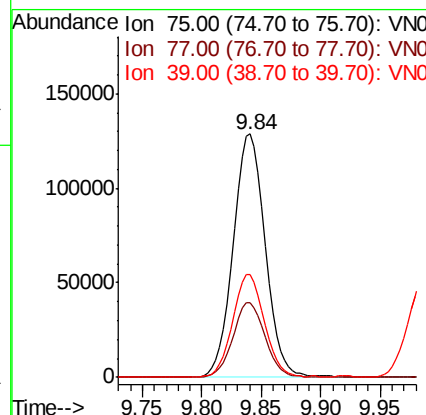
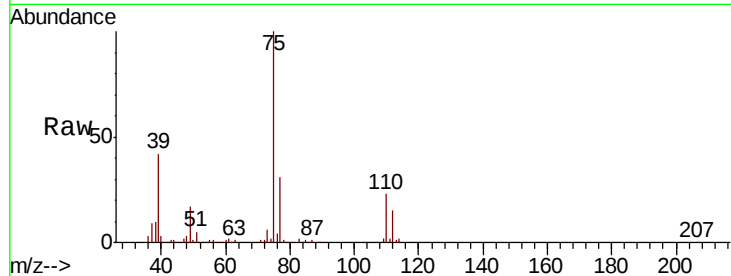
#49
 cis-1,3-Dichloropropene
 Concen: 20.36 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. 0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
75	100		
77	30.5	25.7	38.5
39	42.3	36.3	54.5

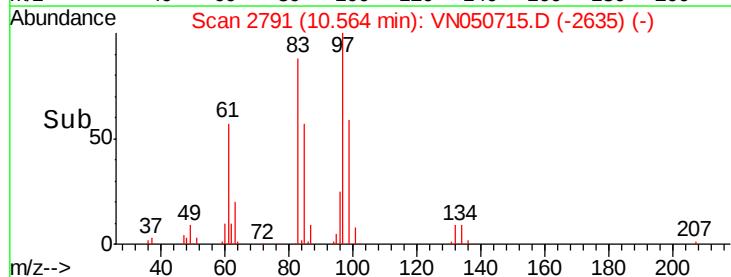
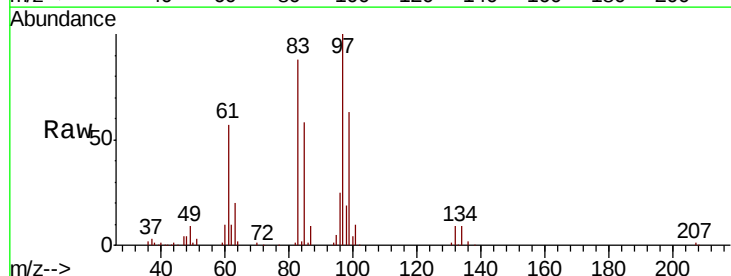
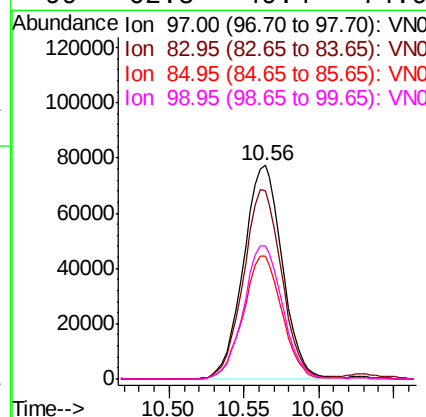
Manual Integrations
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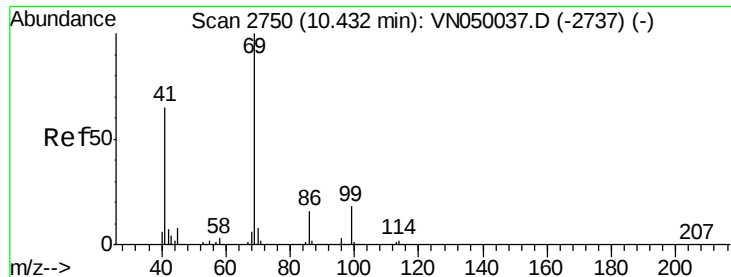
MMDadoda
 8/20/2018 10:35:48 AM



#50
 1,1,2-Trichloroethane
 Concen: 19.45 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. 0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.2	68.1	102.1
85	57.6	45.4	68.2
99	62.5	49.4	74.0





#51

Ethyl methacrylate

Concen: 17.54 ug/l

RT: 10.43 min Scan# 2749

Delta R.T. -0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

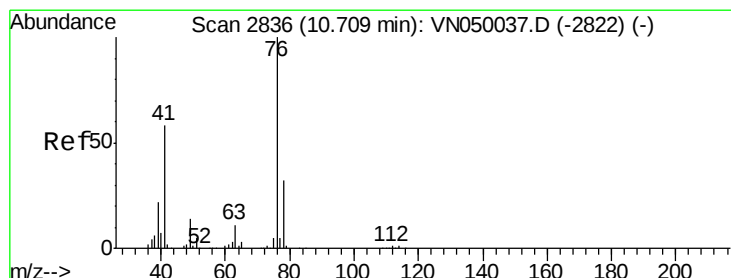
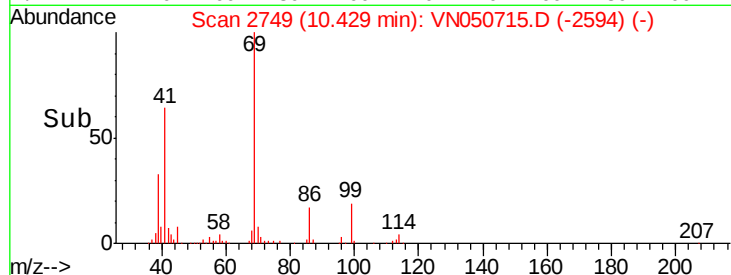
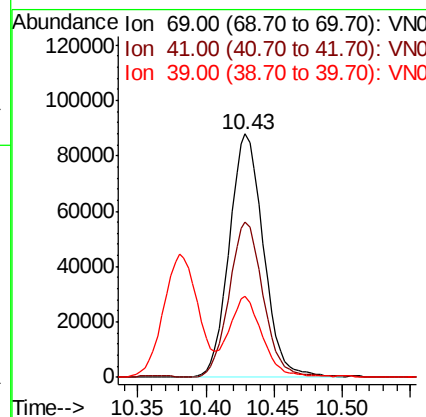
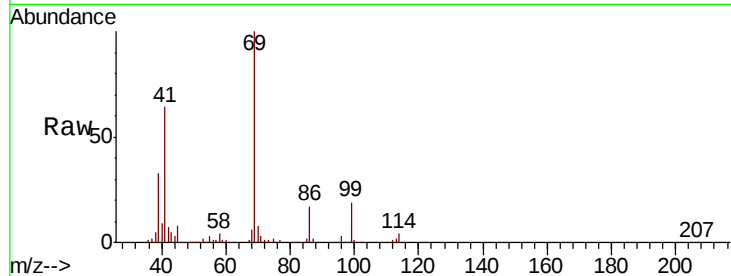
ClientSampled :

VSTDCCC020

Tot Ion:	69	Resp:	152979
Ion	Ratio	Lower	Upper
69	100		
41	63.6	31.9	95.9
39	32.8	16.7	50.1

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 19.65 ug/l

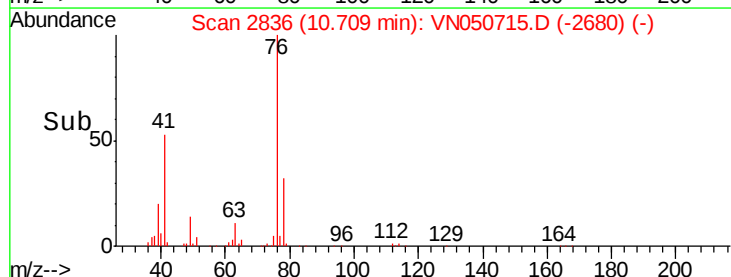
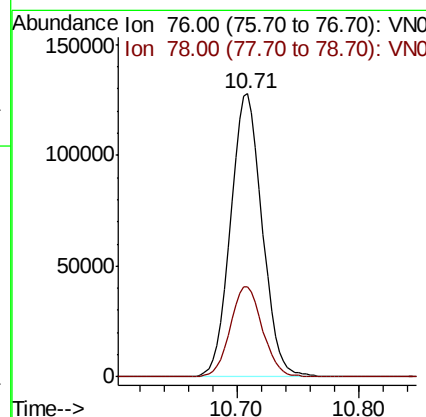
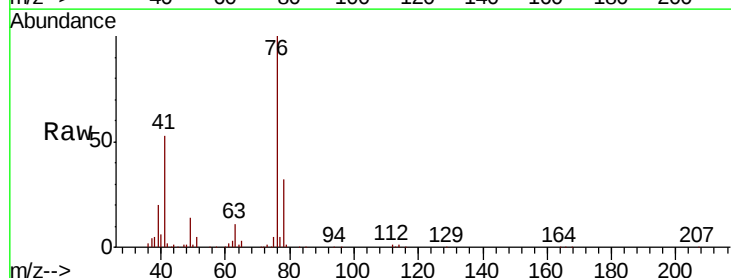
RT: 10.71 min Scan# 2836

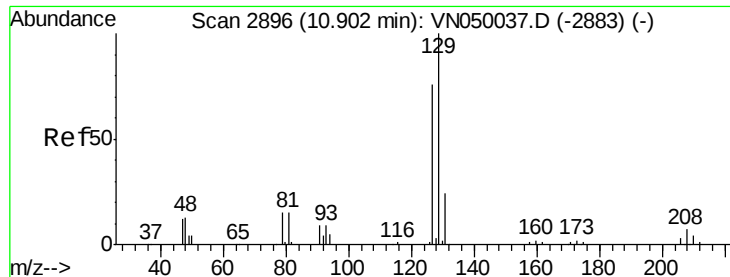
Delta R.T. 0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Tgt Ion:	76	Resp:	231874
Ion	Ratio	Lower	Upper
76	100		
78	32.4	0.0	65.6





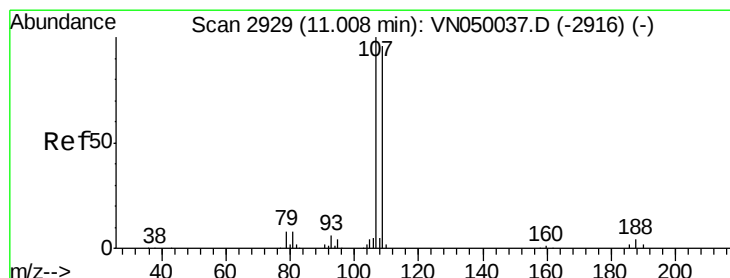
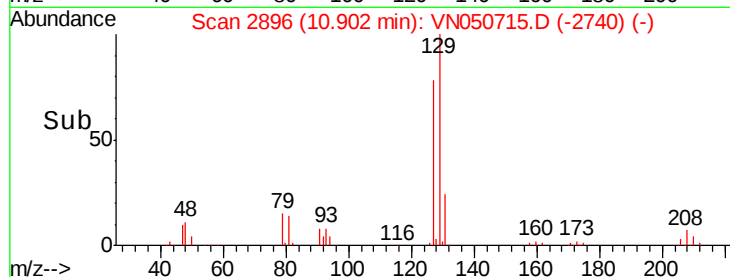
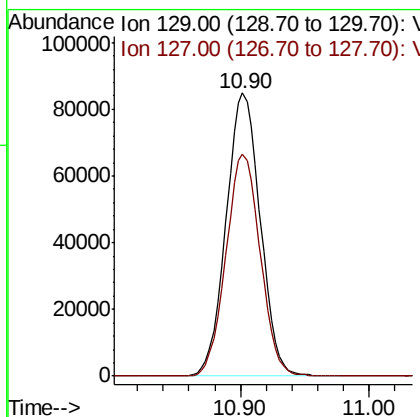
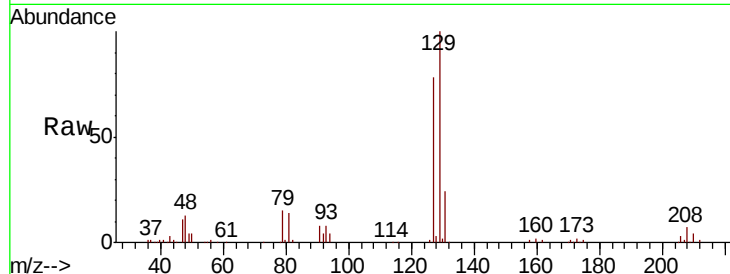
#53
Dibromochloromethane
Concen: 19.13 ug/l
RT: 10.90 min Scan# 2896
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ion	Ratio	Resp	Lower	Upper
129	100		156031		
127	78.6	38.1	114.5		

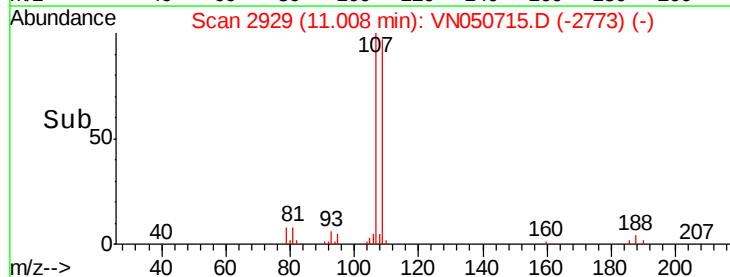
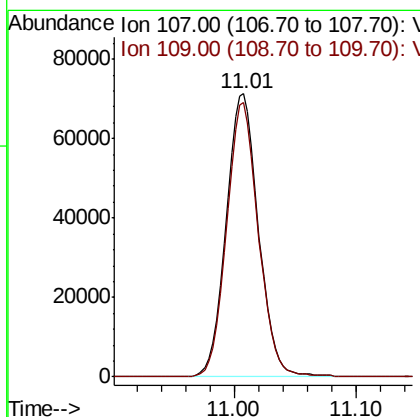
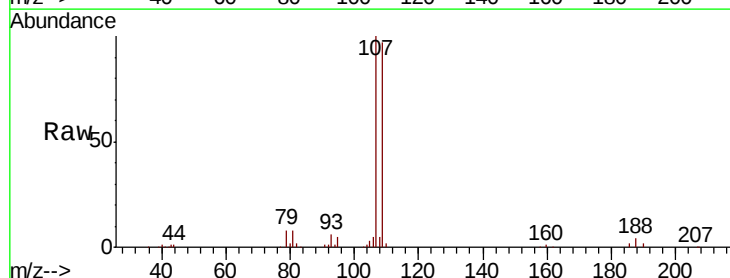
Manual Integrations
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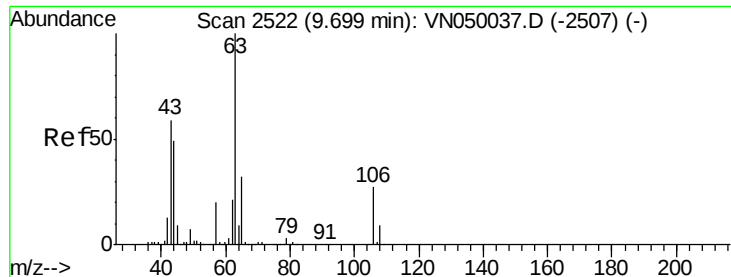
MMDadoda
8/20/2018 10:35:48 AM



#54
1,2-Dibromoethane
Concen: 18.73 ug/l
RT: 11.01 min Scan# 2929
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ion	Ratio	Resp	Lower	Upper
107	100		131783		
109	95.1	76.2	114.2		





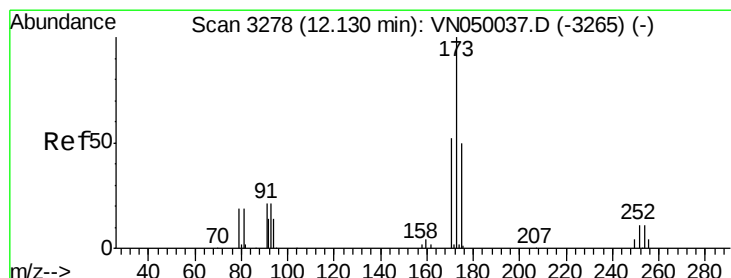
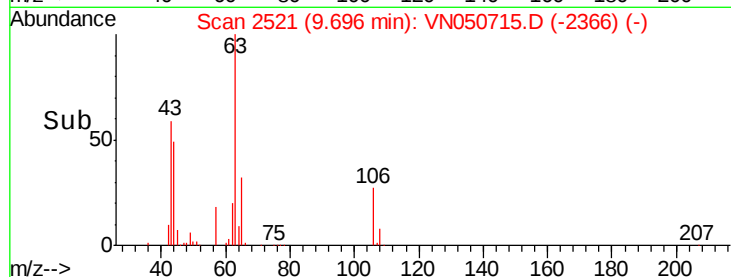
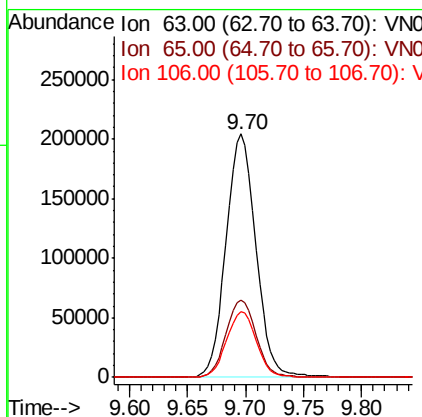
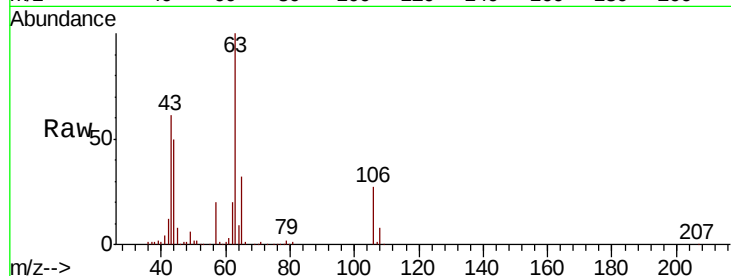
#55
2-Chloroethyl vinyl ether
Concen: 92.15 ug/l
RT: 9.70 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion:	63	Resp:	363713
Ion Ratio	Lower	Upper	
63	100		
65	32.1	25.5	38.3
106	27.1	21.8	32.6

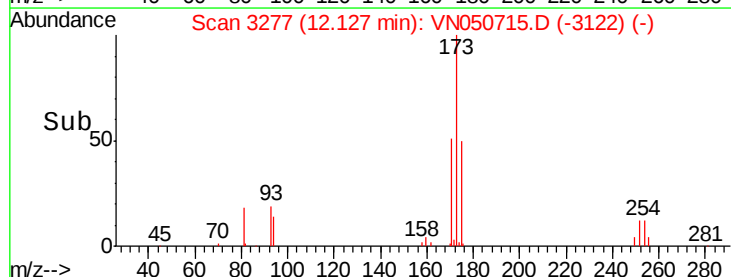
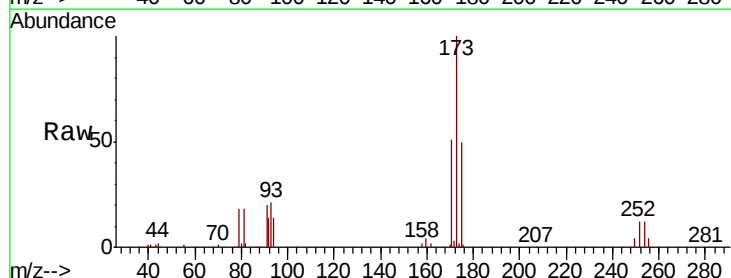
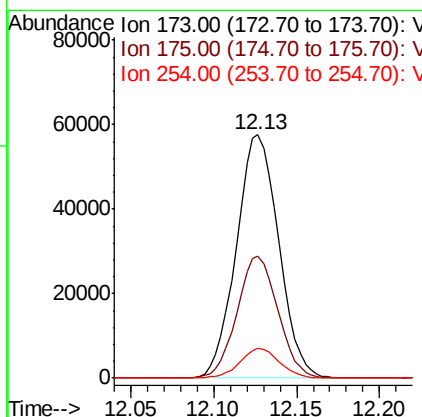
Manual Integrations
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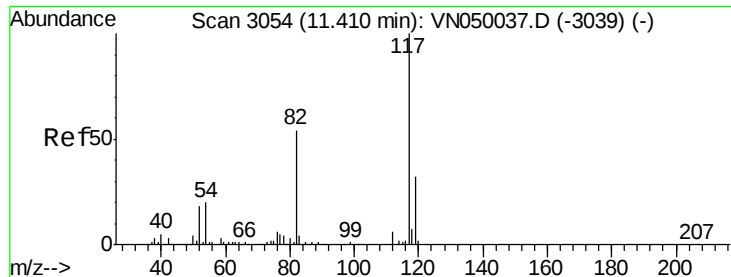
MMDadoda
8/20/2018 10:35:48 AM



#56
Bromoform
Concen: 17.82 ug/l
RT: 12.13 min Scan# 3277
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion:	173	Resp:	102605
Ion Ratio	Lower	Upper	
173	100		
175	48.3	38.6	57.8
254	11.4	8.8	13.2





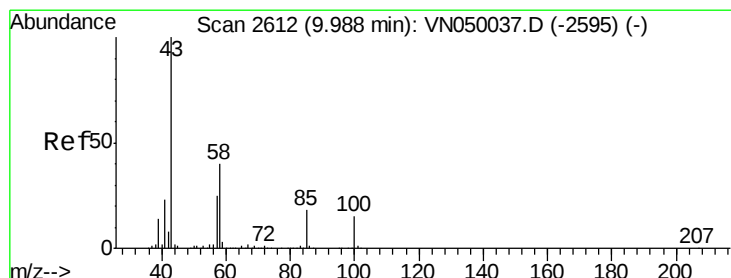
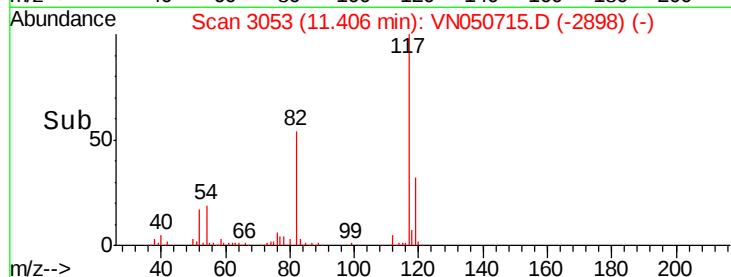
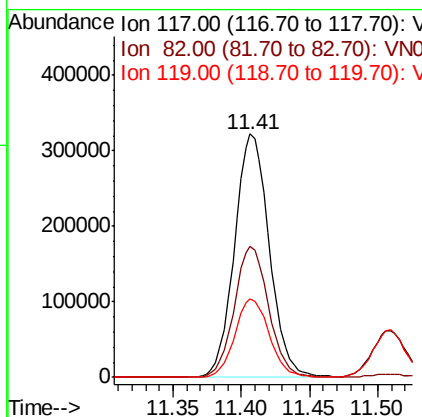
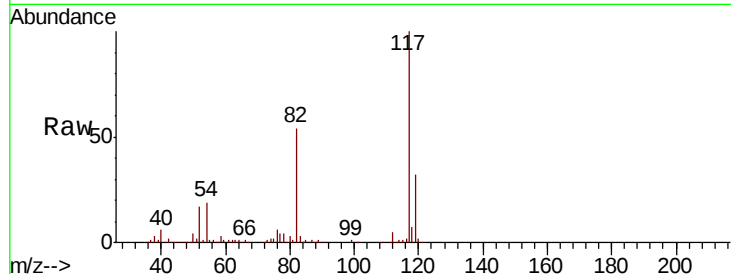
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3053
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
117	100		
82	53.2	42.4	63.6
119	32.0	25.4	38.0

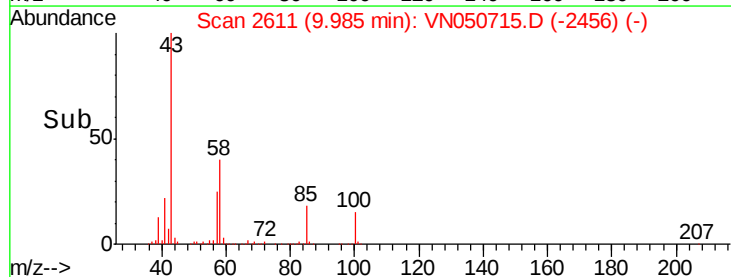
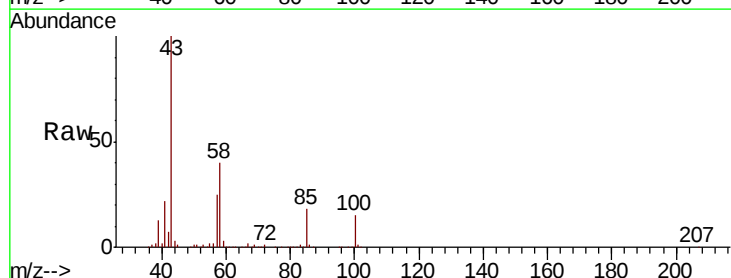
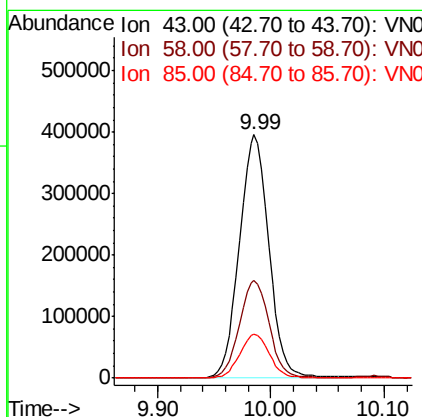
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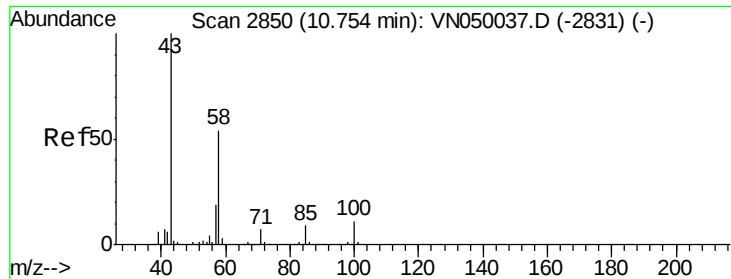
MMDadoda
8/20/2018 10:35:48 AM



#58
4-Methyl-2-Pentanone
Concen: 108.33 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Lower	Upper
43	100		
58	40.7	31.2	46.8
85	18.2	14.4	21.6





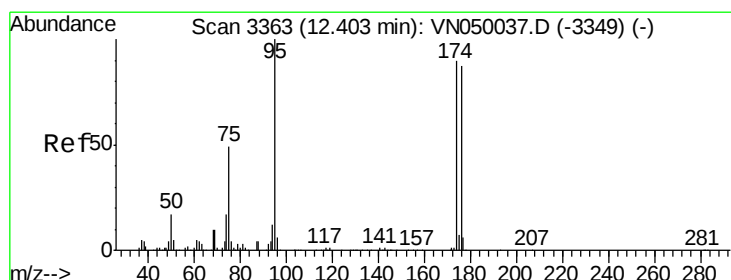
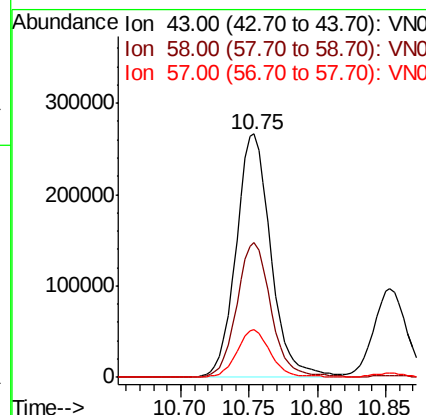
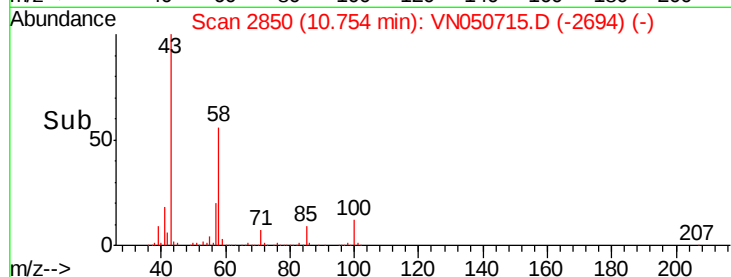
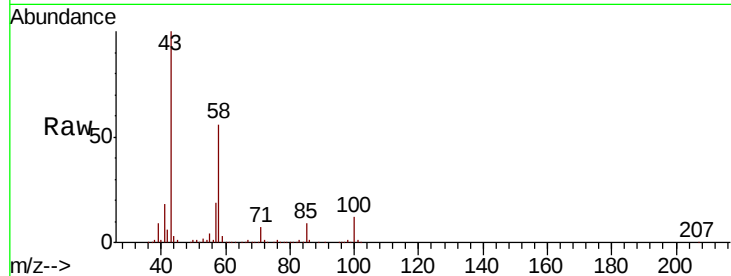
#59
2-Hexanone
Concen: 103.54 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.9	43.8	65.8
57	19.0	15.1	22.7

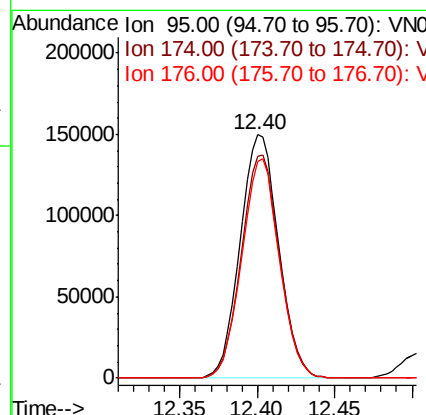
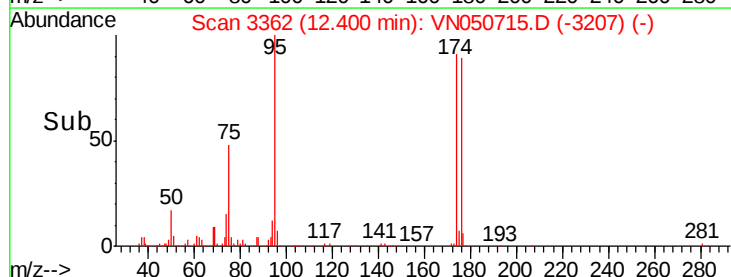
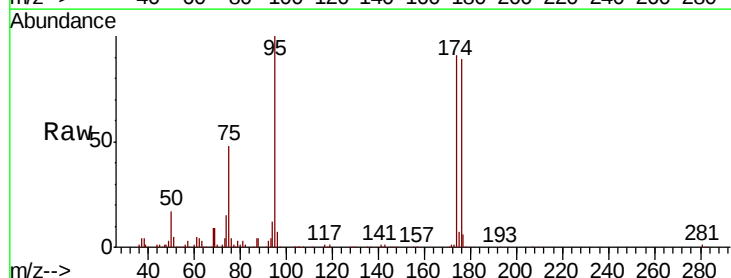
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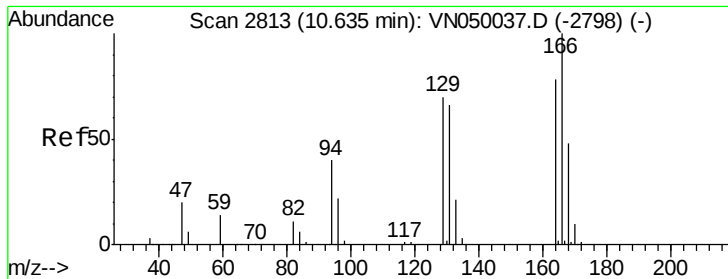
MMDadoda
8/20/2018 10:35:48 AM



#60
4-Bromofluorobenzene
Concen: 29.43 ug/l
RT: 12.40 min Scan# 3362
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.3	72.3	108.5
176	88.3	70.0	105.0





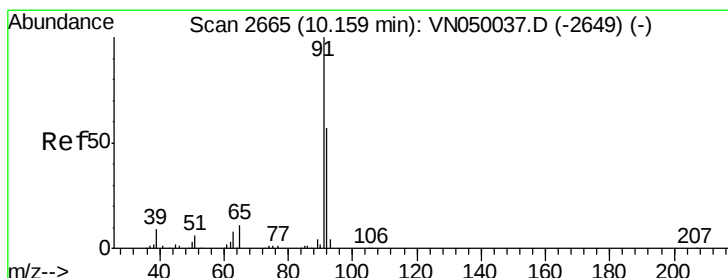
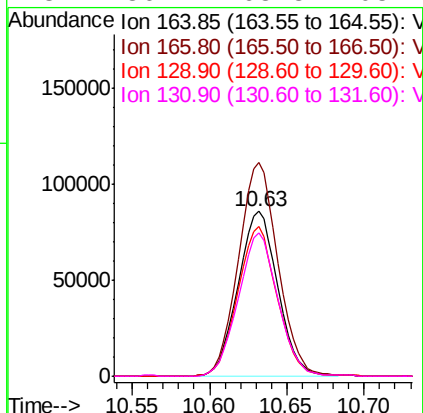
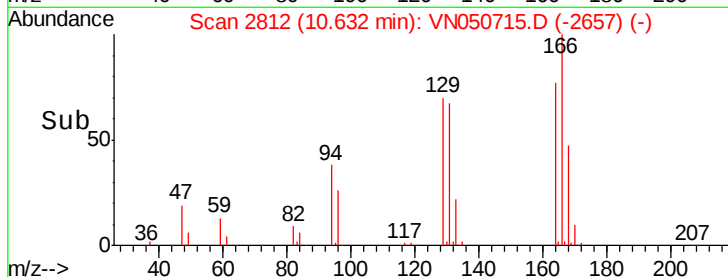
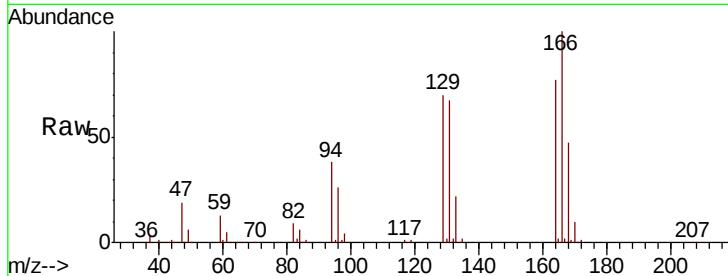
#61
Tetrachloroethene
Concen: 19.80 ug/l
RT: 10.63 min Scan# 2812
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
164	100			
166	129.7	153053	100.0	150.0
129	90.7		69.3	103.9
131	86.7		68.8	103.2

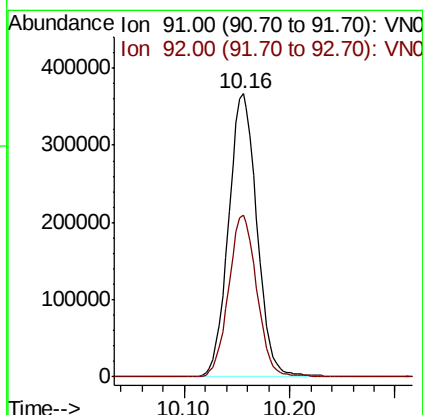
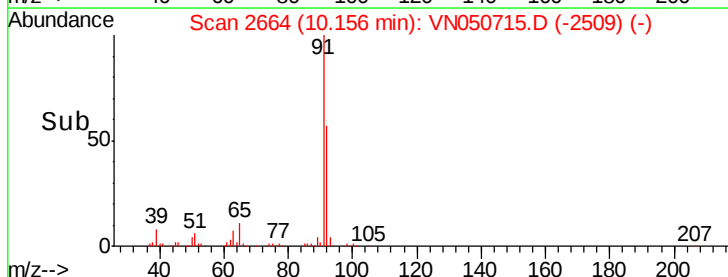
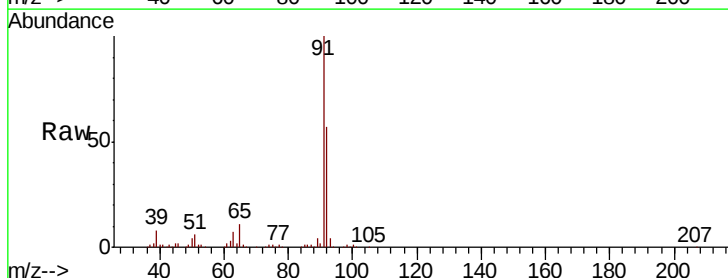
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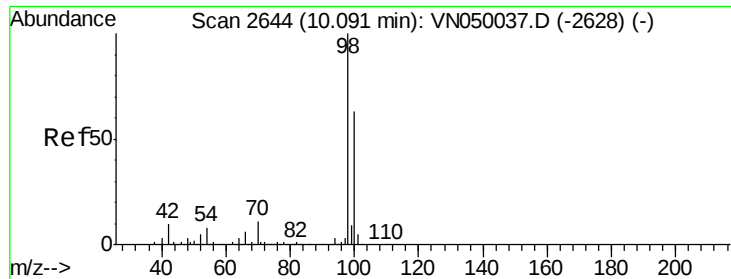
MMDadoda
8/20/2018 10:35:48 AM



#62
Toluene
Concen: 20.97 ug/l
RT: 10.16 min Scan# 2664
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Resp	Lower	Upper
91	100	682777		
92	57.0		45.7	68.5





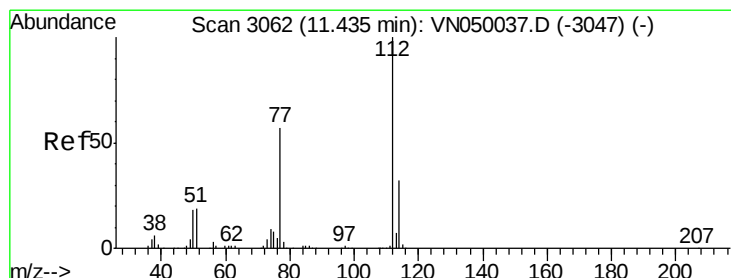
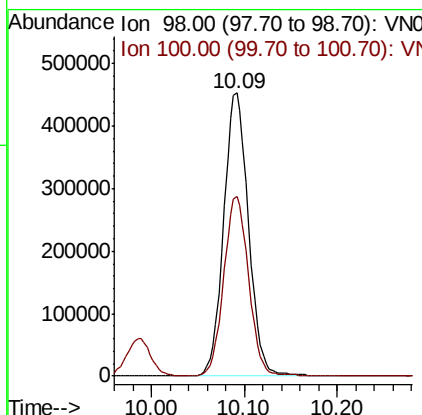
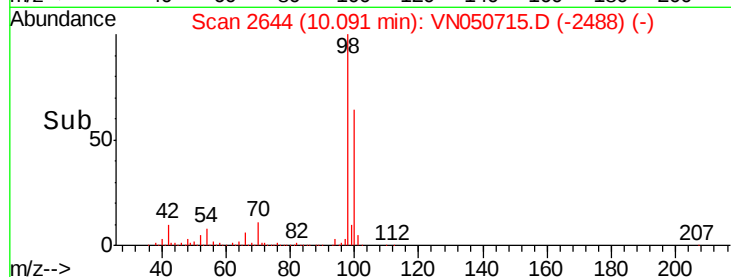
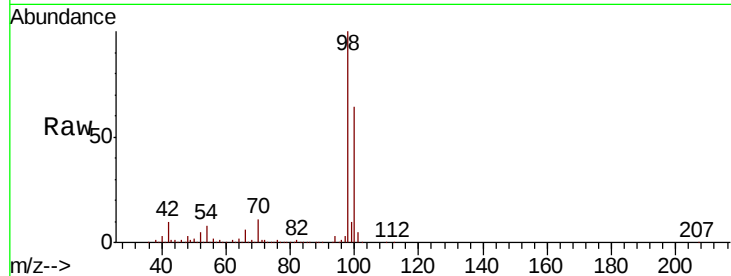
#63
Toluene-d8
Concen: 30.81 ug/l
RT: 10.09 min Scan# 2644
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion: 98 Resp: 839752
Ion Ratio Lower Upper
98 100
100 63.0 51.2 76.8

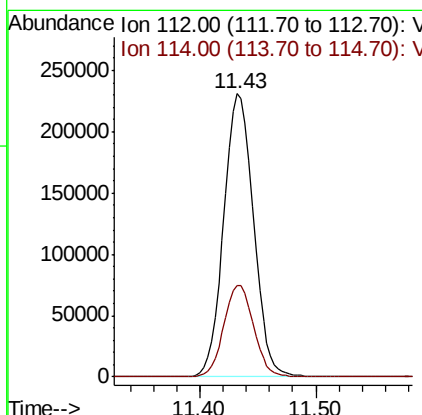
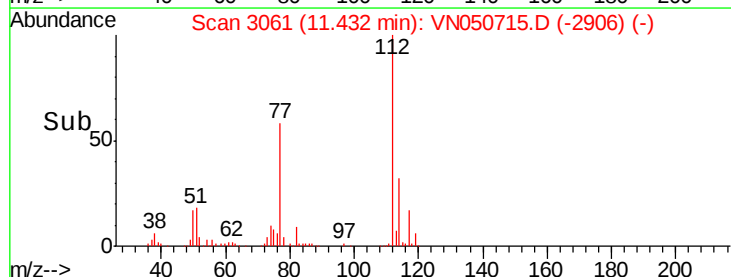
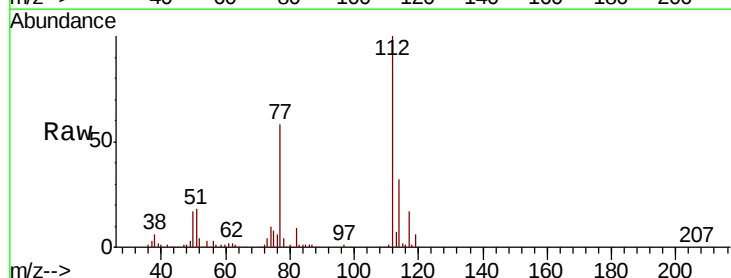
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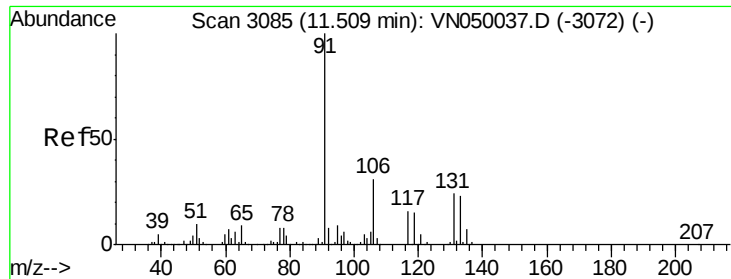
MMDadoda
8/20/2018 10:35:48 AM



#64
Chlorobenzene
Concen: 20.82 ug/l
RT: 11.43 min Scan# 3061
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion: 112 Resp: 411008
Ion Ratio Lower Upper
112 100
114 32.4 26.2 39.2





#65

1,1,1,2-Tetrachloroethane

Concen: 20.95 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. 0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

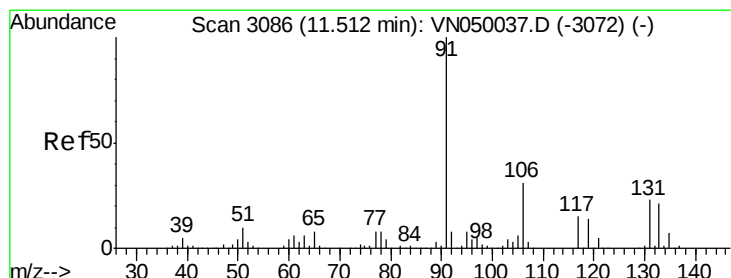
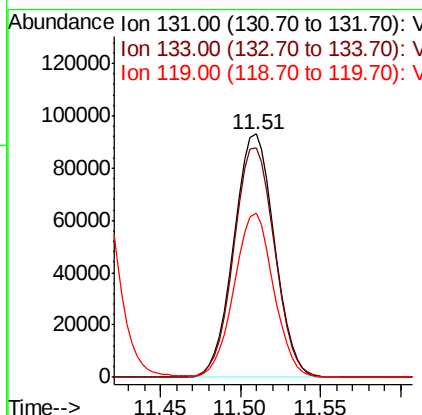
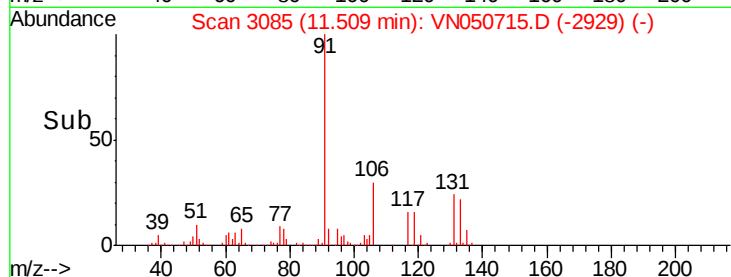
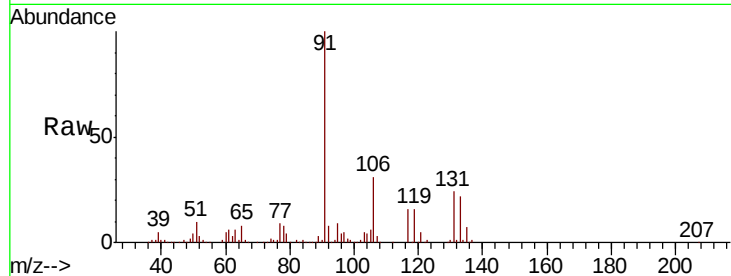
ClientSampleId :

VSTDCCC020

Tot Ion:	131	Resp:	161294
Ion Ratio	Lower	Upper	
131	100		
133	94.9	0.0	190.0
119	65.4	0.0	131.6

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#66

Ethyl Benzene

Concen: 20.20 ug/l

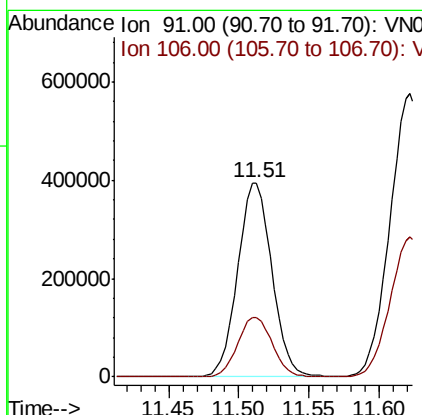
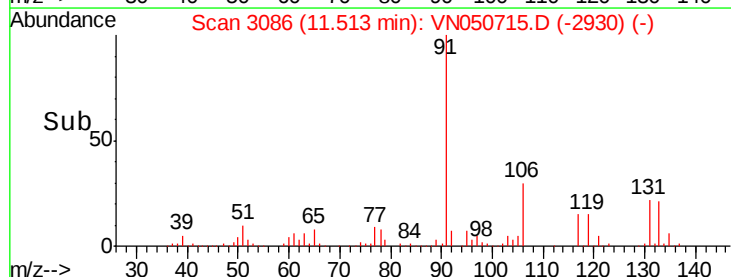
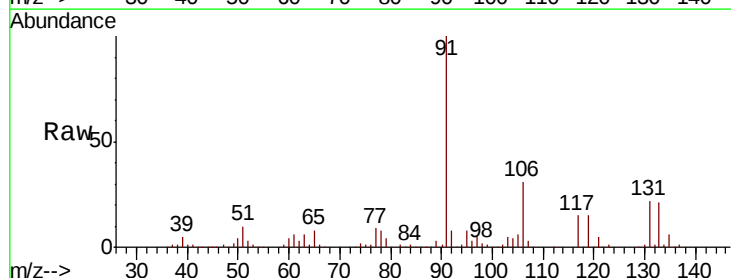
RT: 11.51 min Scan# 3086

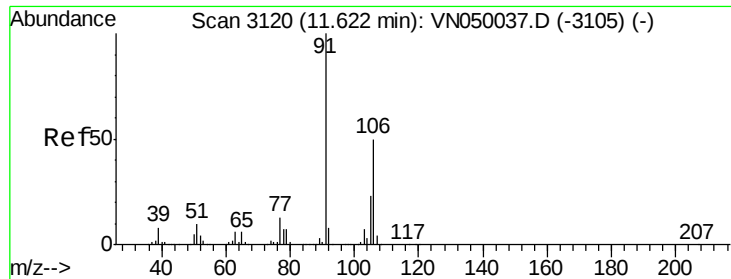
Delta R.T. 0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Tgt Ion:	91	Resp:	672198
Ion Ratio	Lower	Upper	
91	100		
106	30.9	25.1	37.7





#67

m/p-Xylenes

Concen: 42.46 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. 0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020

Tot Ion:106 Resp: 543596

Ion Ratio Lower Upper

106 100

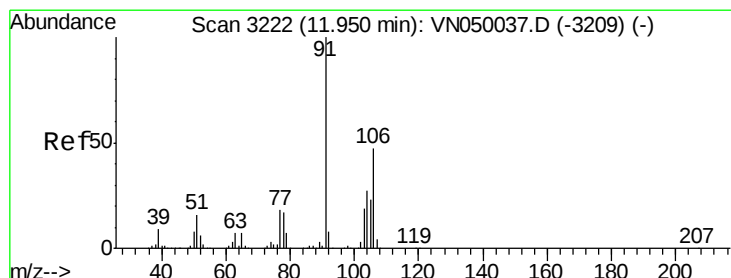
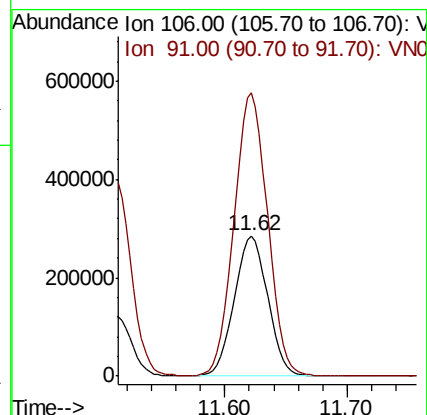
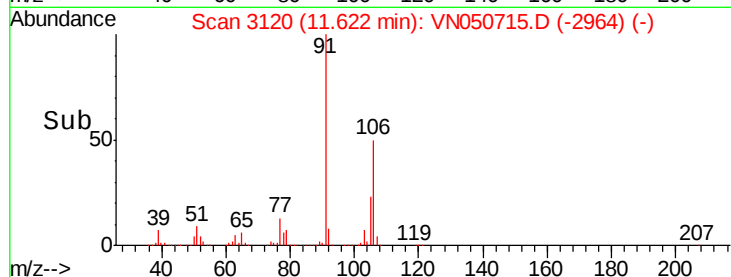
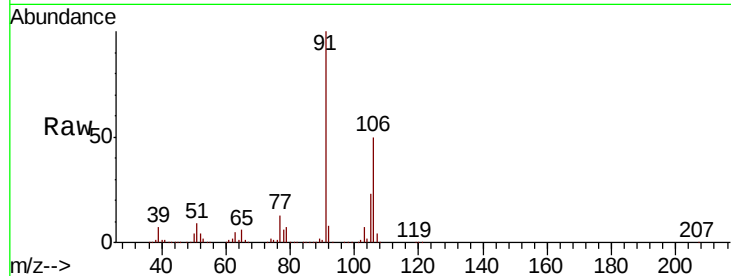
91 201.9 162.5 243.7

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#68

o-Xylene

Concen: 20.74 ug/l

RT: 11.95 min Scan# 3221

Delta R.T. -0.00 min

Lab File: VN050715.D

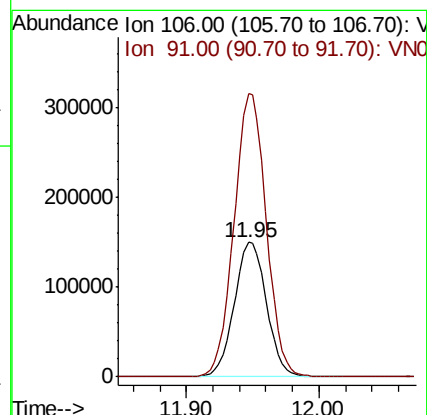
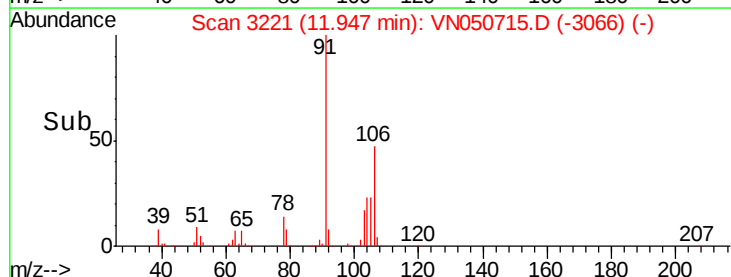
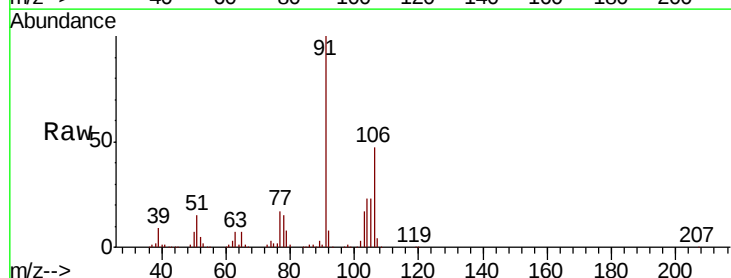
Acq: 17 Aug 2018 8:00

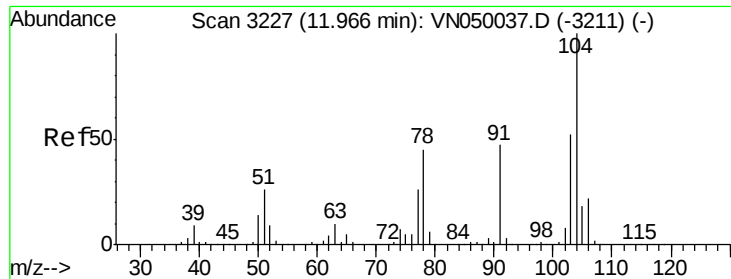
Tgt Ion:106 Resp: 252616

Ion Ratio Lower Upper

106 100

91 210.9 106.8 320.4





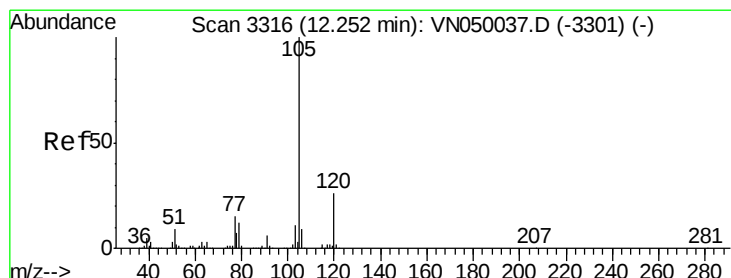
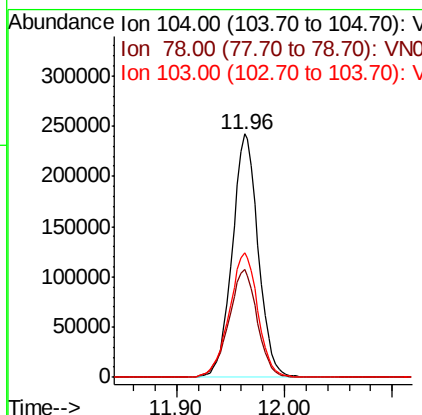
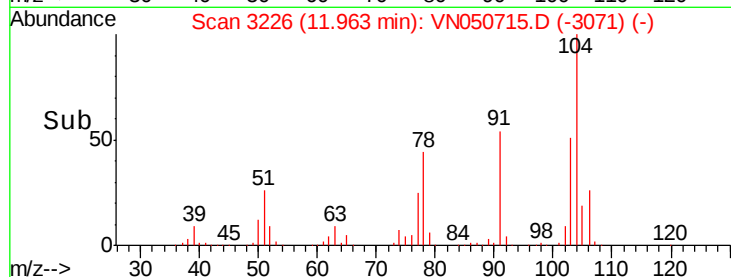
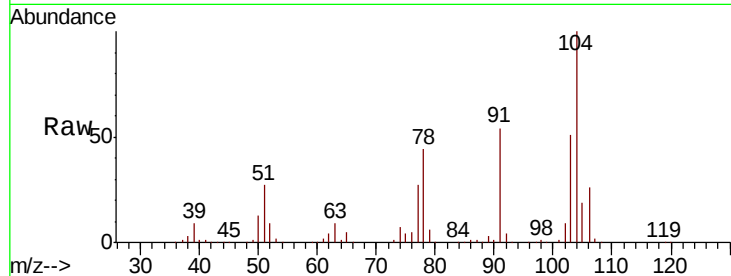
#69
Stvrene
Concen: 20.82 ug/l
RT: 11.96 min Scan# 3226
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion	Ratio	Lower	Upper
104	100		
78	48.5	39.3	58.9
103	56.1	44.5	66.7

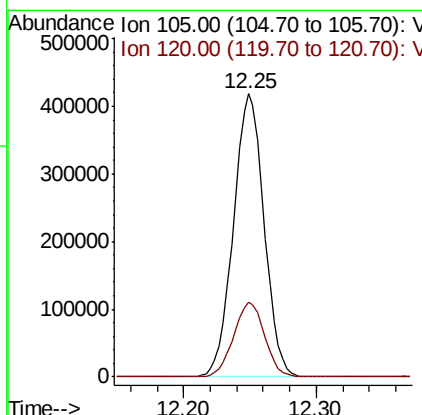
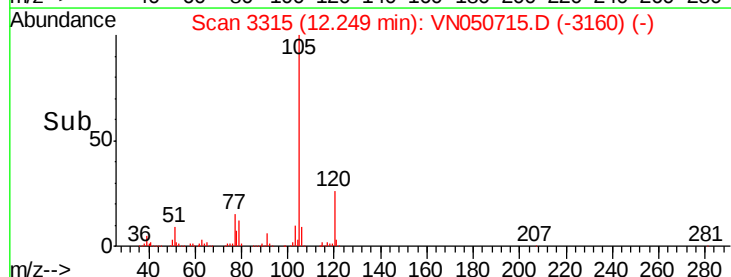
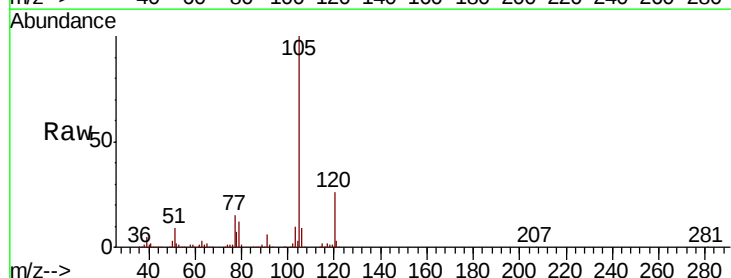
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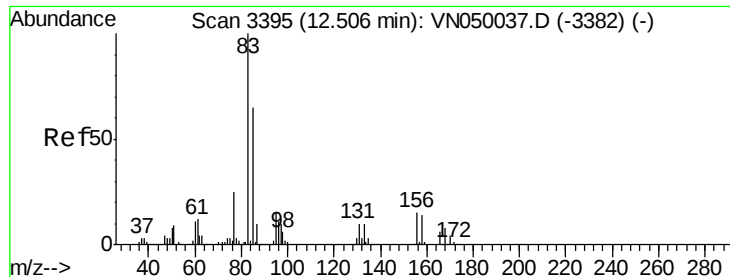
MMDadoda
8/20/2018 10:35:48 AM



#70
Isopropylbenzene
Concen: 20.61 ug/l
RT: 12.25 min Scan# 3315
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.7	18.9	35.1





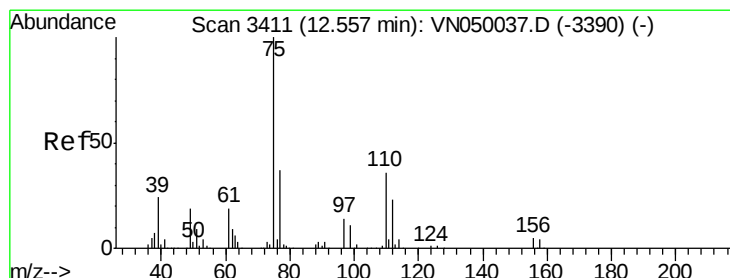
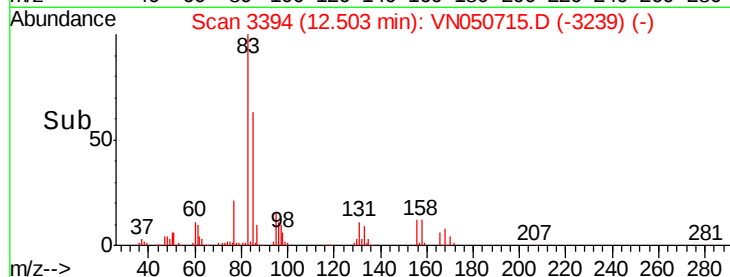
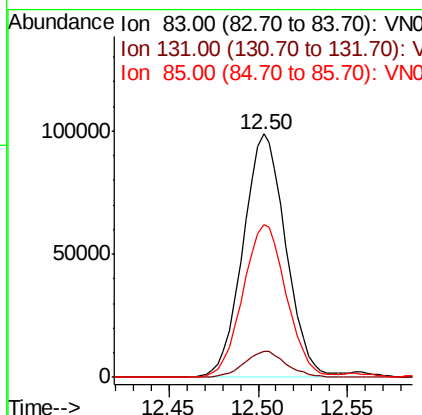
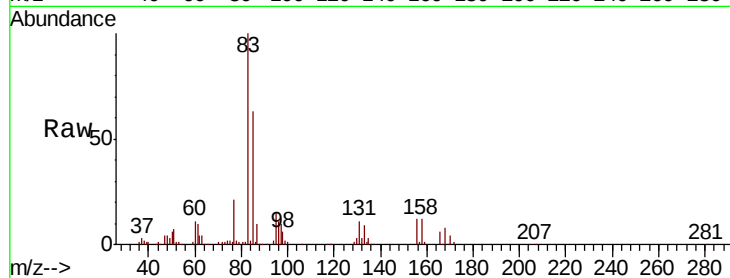
#71
 1,1,2,2-Tetrachloroethane
 Concen: 18.60 ug/l
 RT: 12.50 min Scan# 3394
 Delta R.T. -0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Instrument :
 MSVOA_N
 ClientSampled :
 VSTDCCC020

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.7	5.2	15.6
85	63.8	31.7	95.1

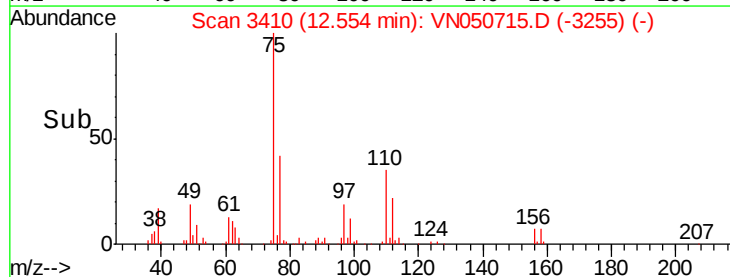
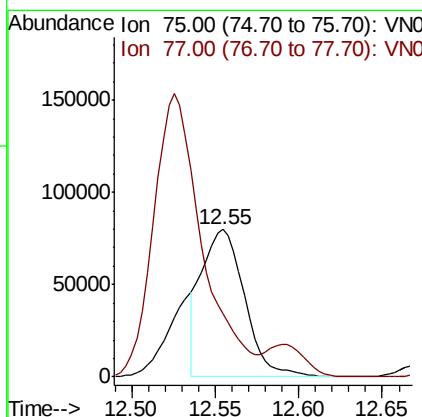
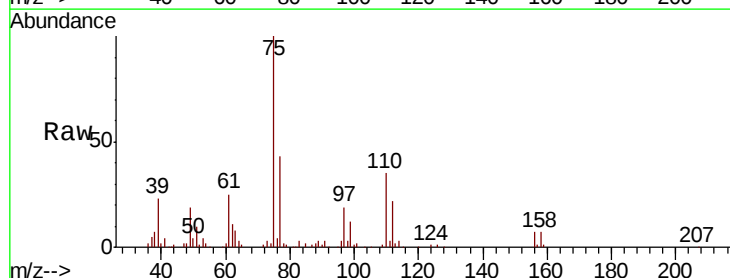
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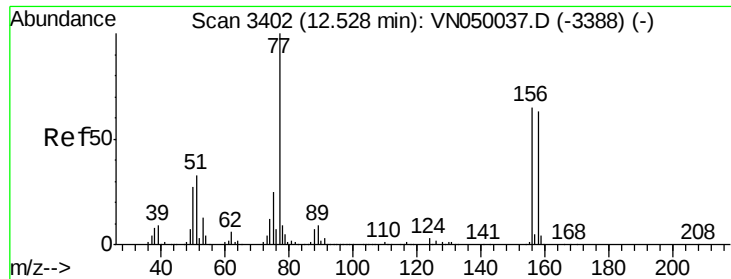
MMDadoda
 8/20/2018 10:35:48 AM



#72
 1,2,3-Trichloropropane
 Concen: 18.92 ug/l m
 RT: 12.55 min Scan# 3410
 Delta R.T. -0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Lower	Upper
75	100		
77	214.6	0.0	454.4





#73

Bromobenzene

Concen: 19.98 ug/l

RT: 12.53 min Scan# 3401

Delta R.T. -0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

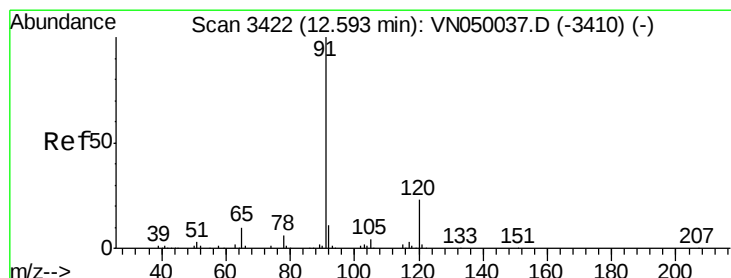
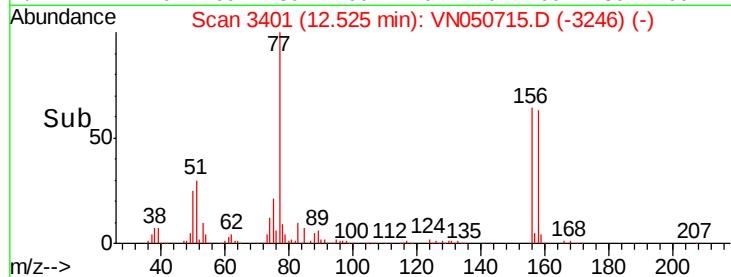
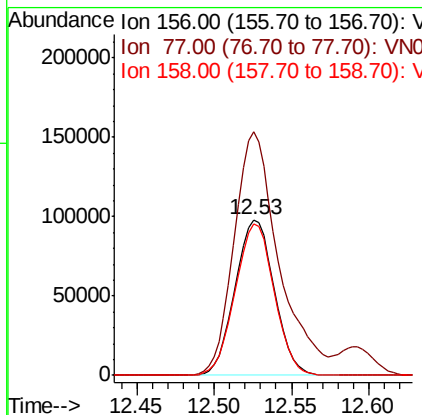
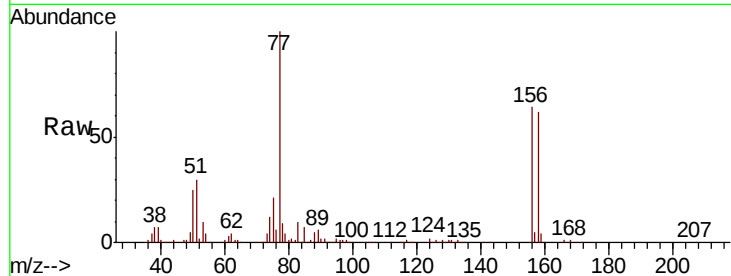
ClientSampleId :

VSTDCCC020

Tot Ion	Ratio	Lower	Upper
156	100		
77	178.9	0.0	359.8
158	96.9	0.0	192.8

Manual Integrations
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8/20/2018 10:35:48 AM



#74

n-propylbenzene

Concen: 20.41 ug/l

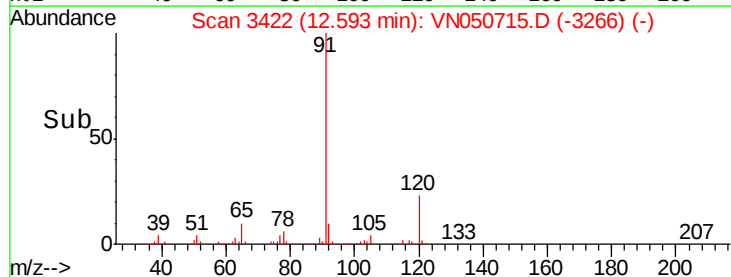
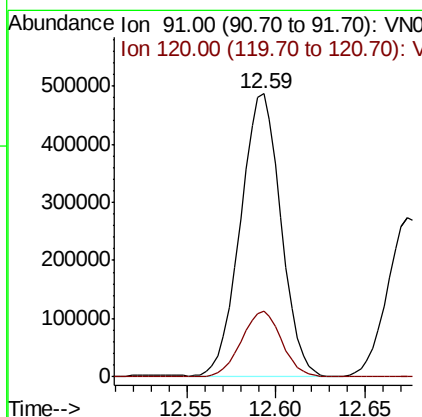
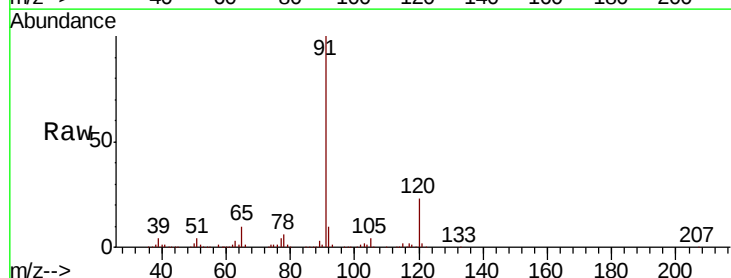
RT: 12.59 min Scan# 3422

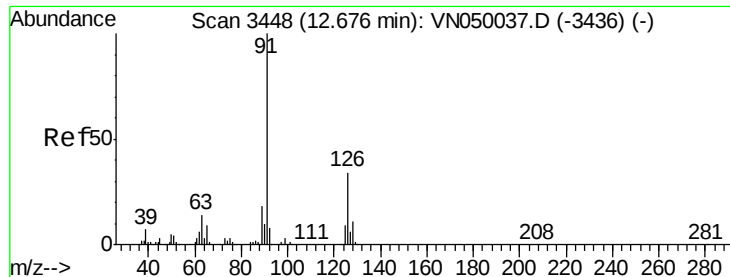
Delta R.T. 0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Lower	Upper
91	100		
120	23.0	0.0	46.4





#75

2-Chlorotoluene

Concen: 20.45 ug/l

RT: 12.67 min Scan# 3447

Delta R.T. -0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 91 Resp: 464135

Ion Ratio Lower Upper

91 100

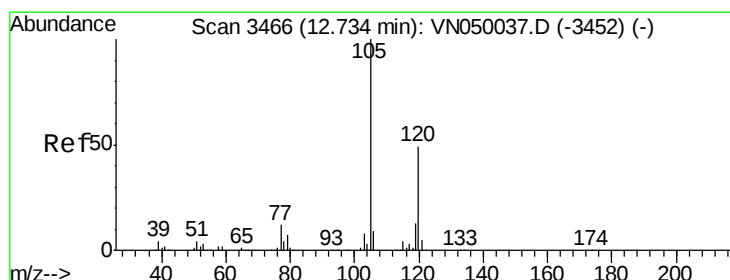
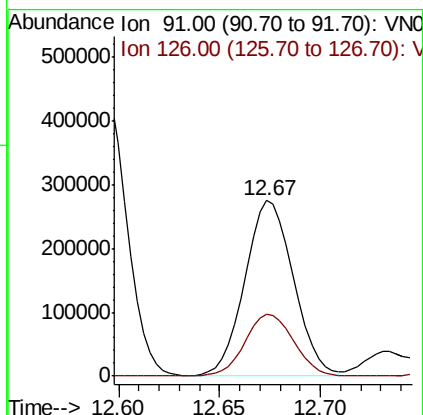
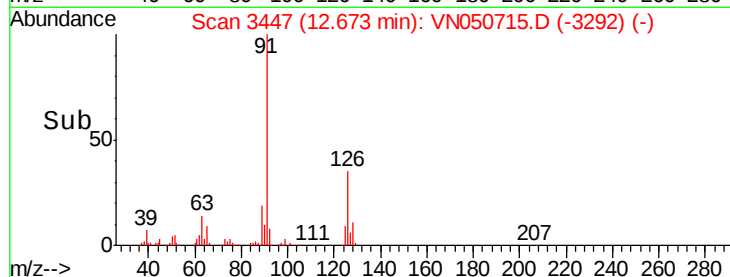
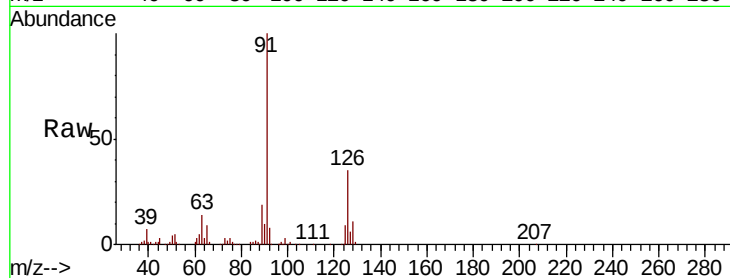
126 35.4 0.0 68.6

Manual Integrations

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#76

1,3,5-Trimethylbenzene

Concen: 20.97 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. 0.00 min

Lab File: VN050715.D

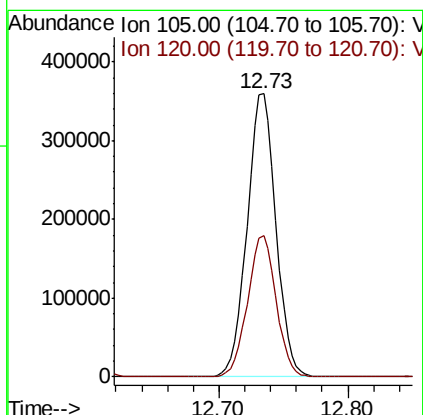
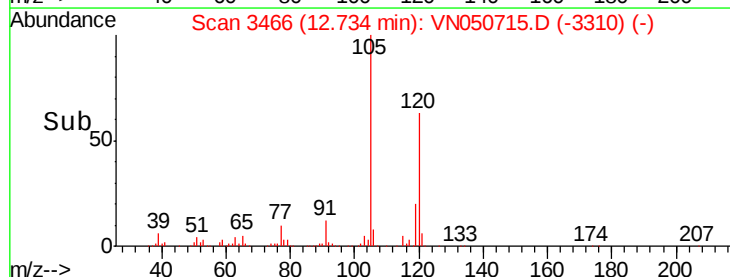
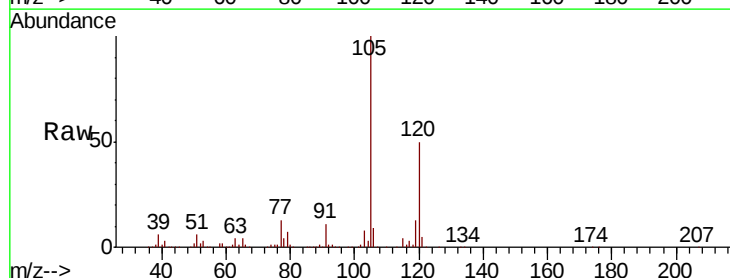
Acq: 17 Aug 2018 8:00

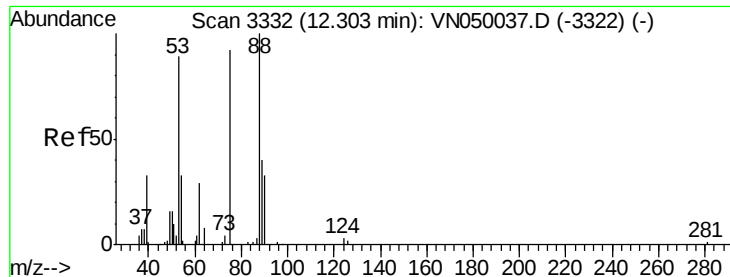
Tgt Ion: 105 Resp: 558768

Ion Ratio Lower Upper

105 100

120 49.5 0.0 98.0





#77

t-1,4-Dichloro-2-butene

Concen: 15.47 ug/l

RT: 12.30 min Scan# 3331

Delta R.T. -0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020

Tot Ion: 75 Resp: 38488

Ion Ratio Lower Upper

75 100

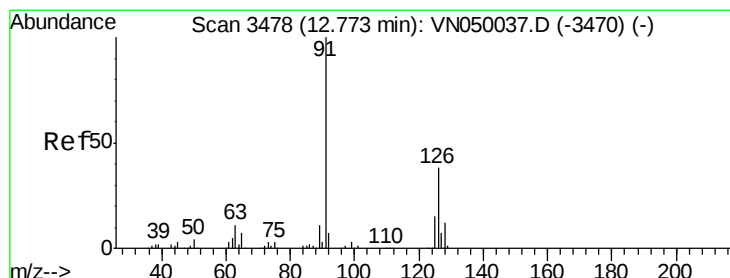
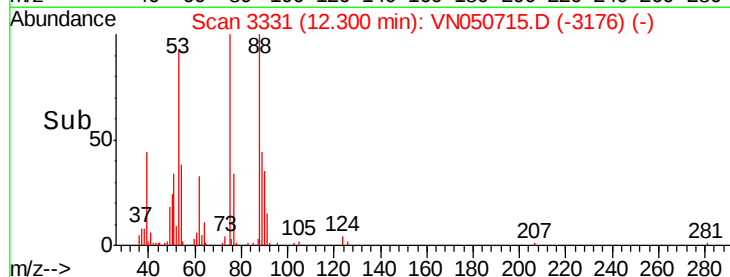
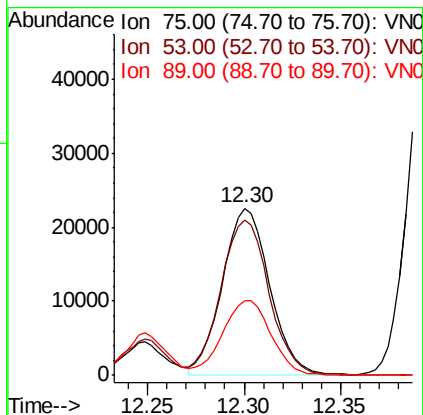
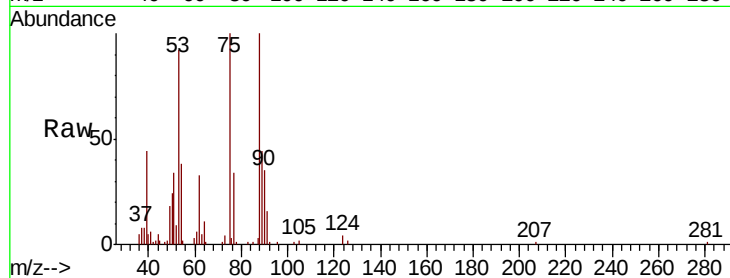
53 91.6 44.6 134.0

89 44.3 20.7 62.1

Manual Integrations
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#78

4-Chlorotoluene

Concen: 20.66 ug/l

RT: 12.77 min Scan# 3478

Delta R.T. 0.00 min

Lab File: VN050715.D

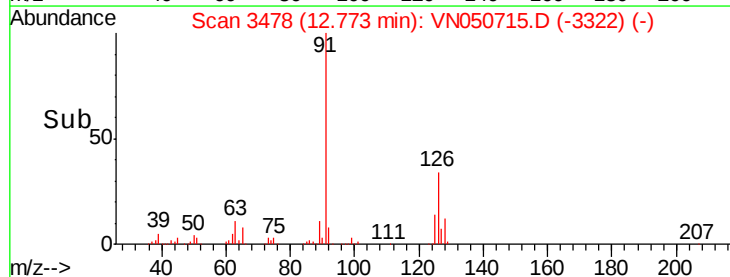
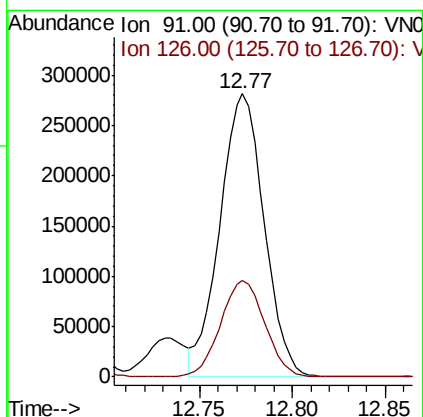
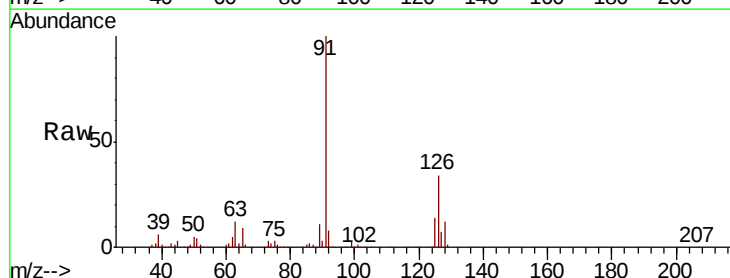
Acq: 17 Aug 2018 8:00

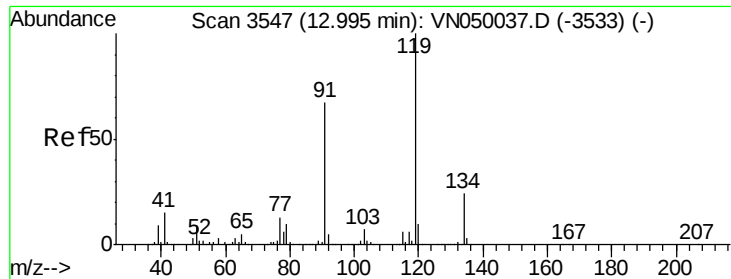
Tgt Ion: 91 Resp: 464612

Ion Ratio Lower Upper

91 100

126 34.3 0.0 68.4





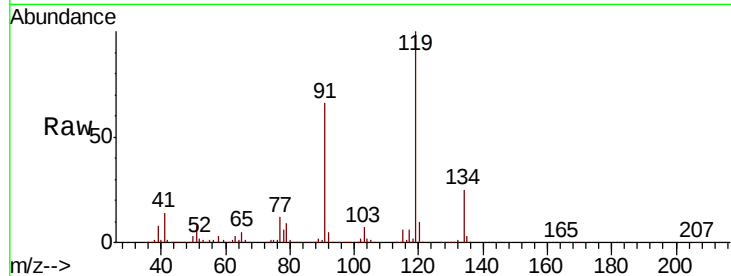
#79
tert-butylbenzene
Concen: 20.30 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

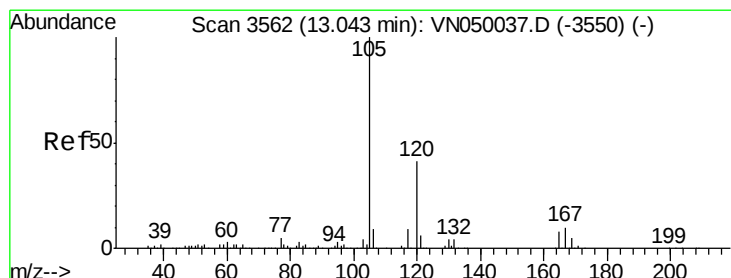
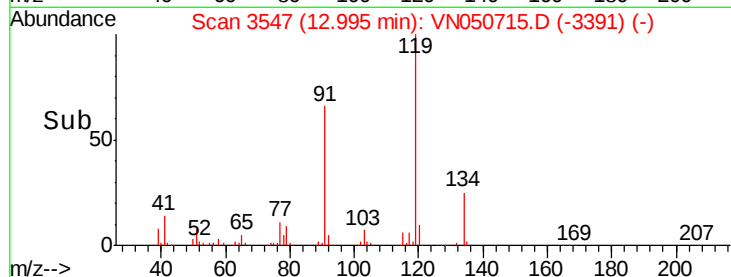
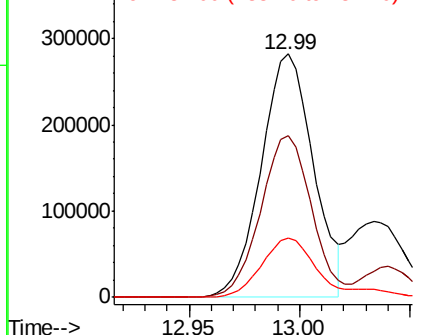
Tot Ion	Ratio	Resp	Lower	Upper
119	100	462605		
91	64.7	0.0	126.8	
134	24.4	0.0	47.4	

Manual Integrations
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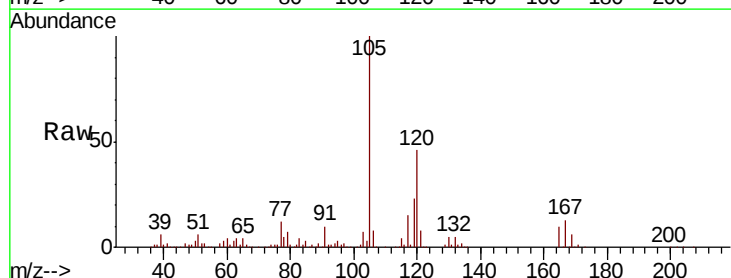


Abundance Ion 119.00 (118.70 to 119.70): V
Ion 91.00 (90.70 to 91.70): V
Ion 134.00 (133.70 to 134.70): V

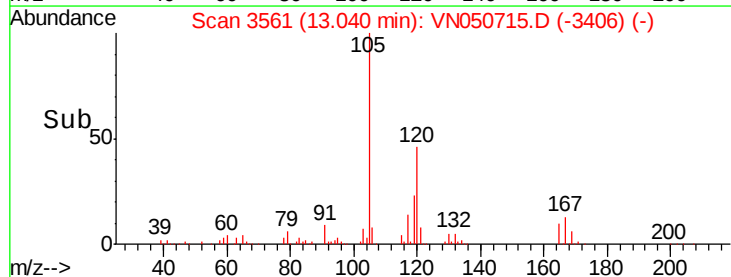
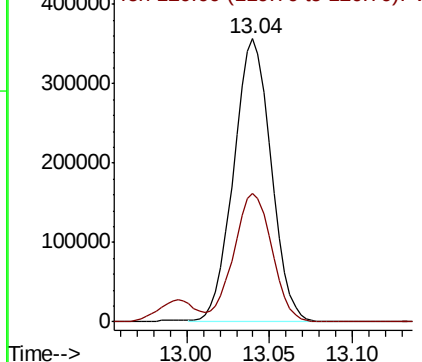


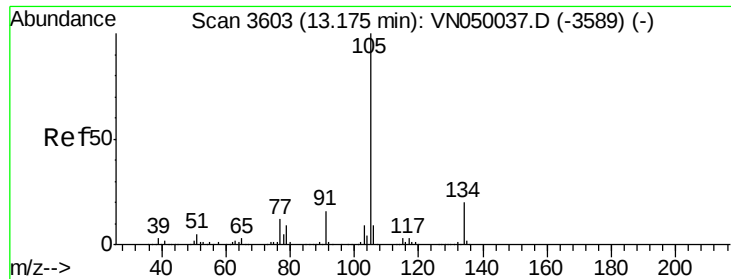
#80
1,2,4-Trimethylbenzene
Concen: 20.77 ug/l
RT: 13.04 min Scan# 3561
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	560833		
120	46.3	0.0	90.6	



Abundance Ion 105.00 (104.70 to 105.70): V
Ion 120.00 (119.70 to 120.70): V





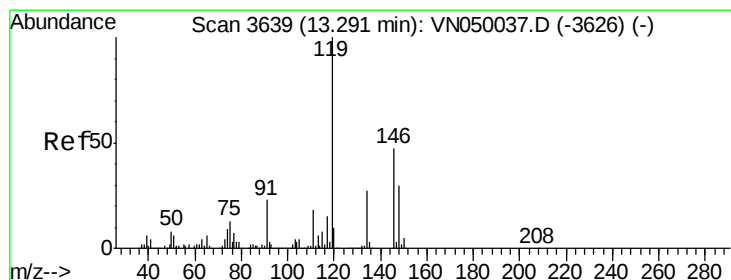
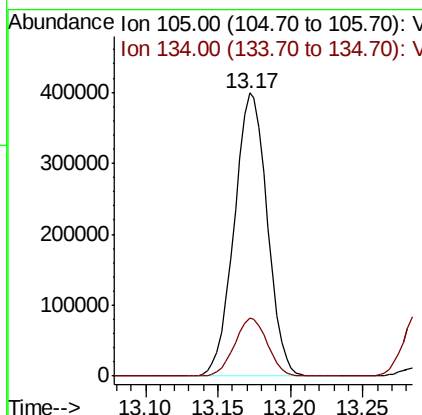
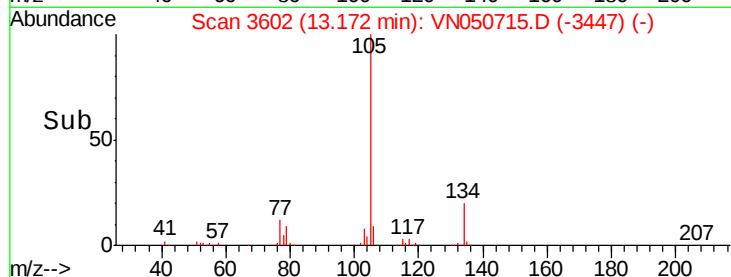
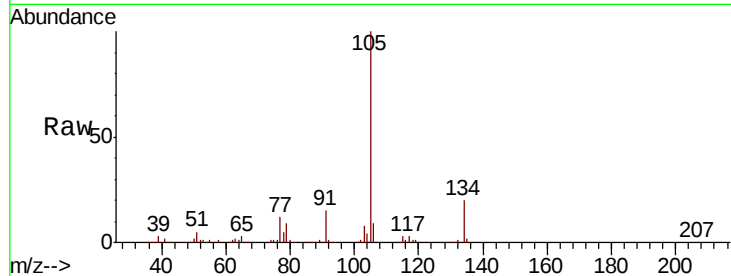
#81
 sec-Butylbenzene
 Concen: 20.31 ug/l
 RT: 13.17 min Scan# 3602
 Delta R.T. -0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
105	100	628501		
134	20.4	0.0	40.6	

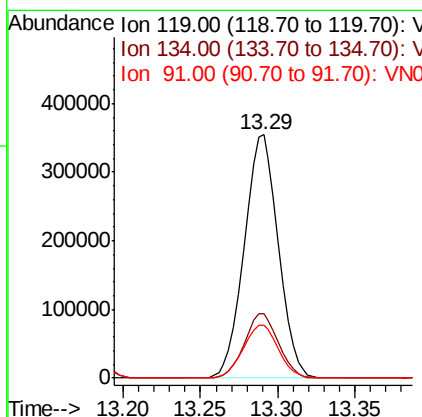
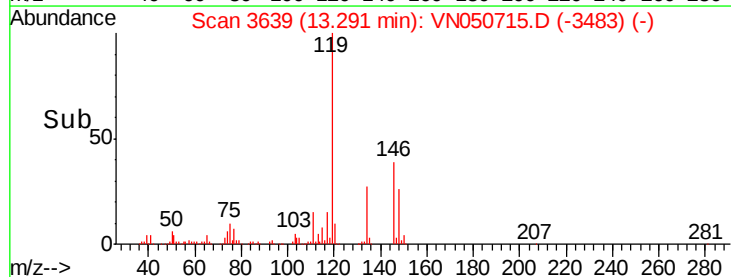
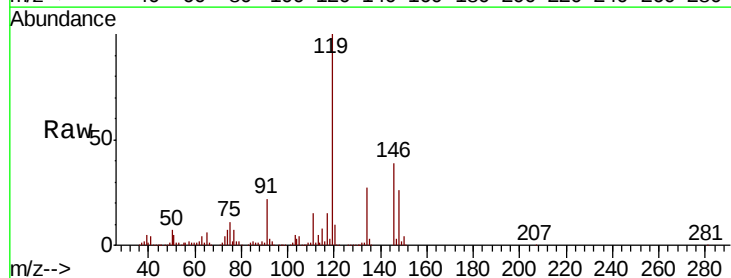
Manual Integrations
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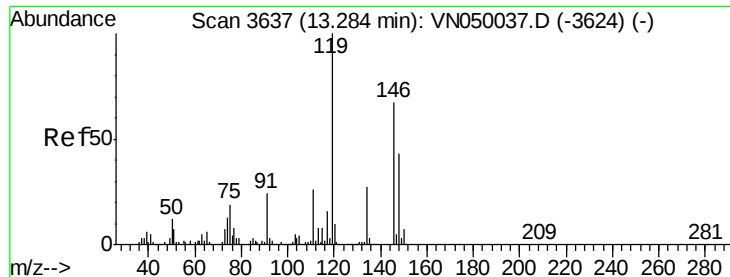
MMDadoda
 8/20/2018 10:35:48 AM



#82
 p-Isopropyltoluene
 Concen: 20.52 ug/l
 RT: 13.29 min Scan# 3639
 Delta R.T. 0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Resp	Lower	Upper
119	100	541770		
134	26.6	0.0	52.2	
91	22.4	0.0	45.6	





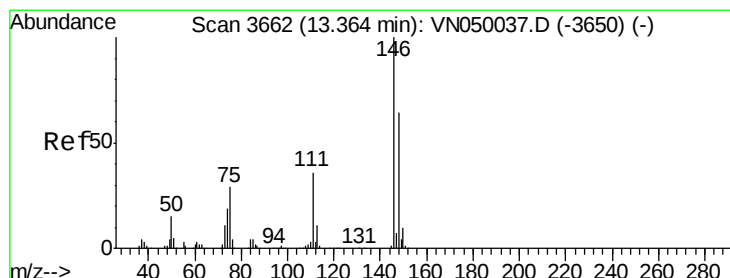
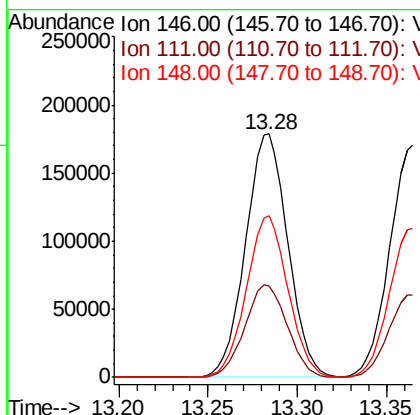
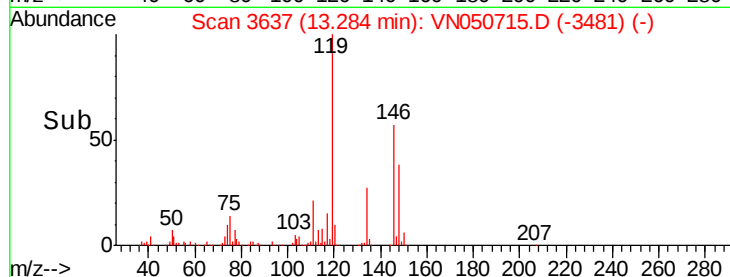
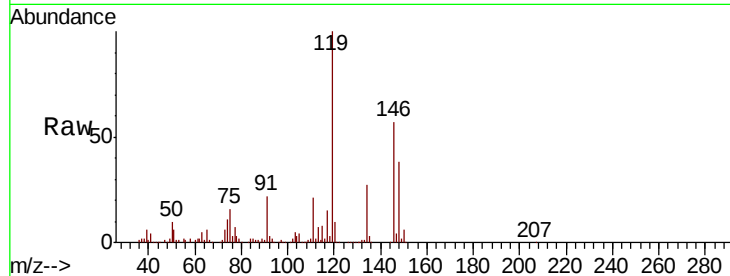
#83
 1,3-Dichlorobenzene
 Concen: 19.72 ug/l
 RT: 13.28 min Scan# 3637
 Delta R.T. 0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
146	100	296760		
111	38.0	19.1	57.1	
148	65.4	31.9	95.9	

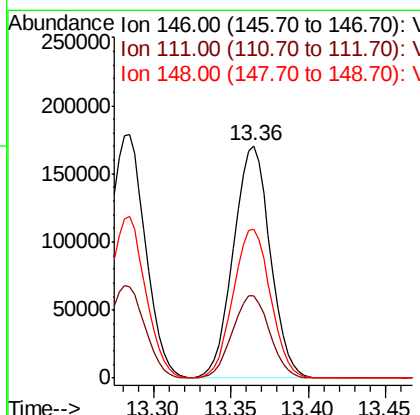
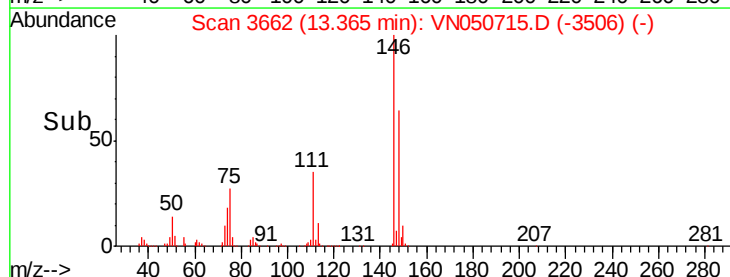
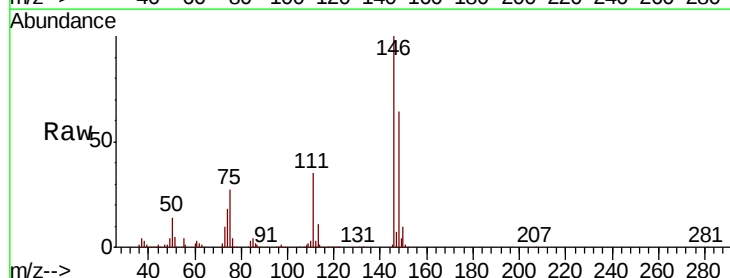
Manual Integrations
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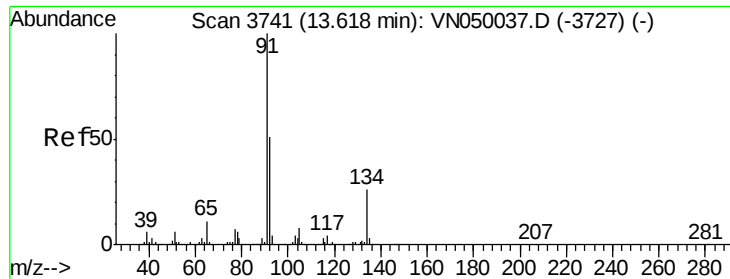
MMDadoda
 8/20/2018 10:35:48 AM



#84
 1,4-Dichlorobenzene
 Concen: 19.77 ug/l
 RT: 13.36 min Scan# 3662
 Delta R.T. 0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Resp	Lower	Upper
146	100	281181		
111	36.1	17.9	53.8	
148	65.1	32.4	97.0	





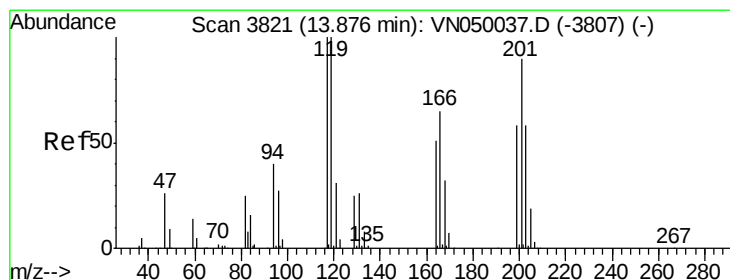
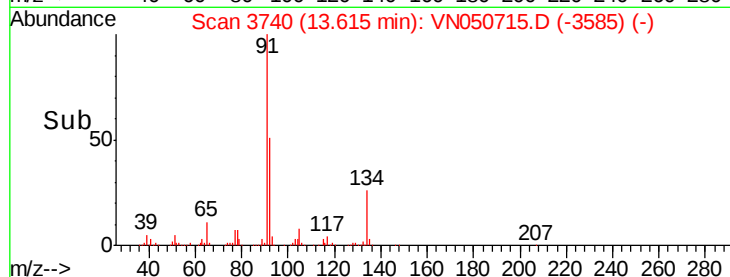
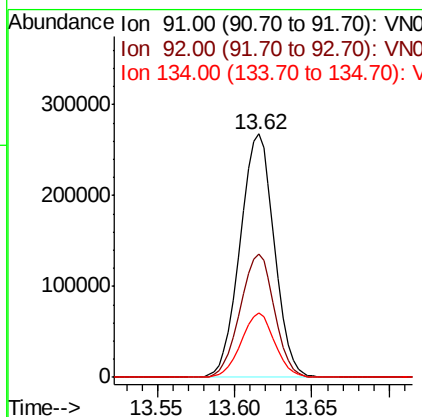
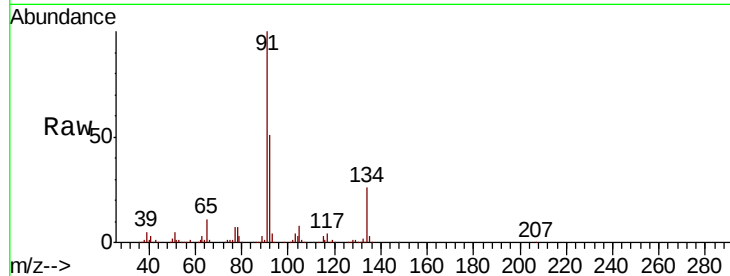
#85
n-Butylbenzene
Concen: 19.24 ug/l
RT: 13.62 min Scan# 3740
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampled :
VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
91	100	412314		
92	50.7	0.0	102.8	
134	25.9	0.0	51.0	

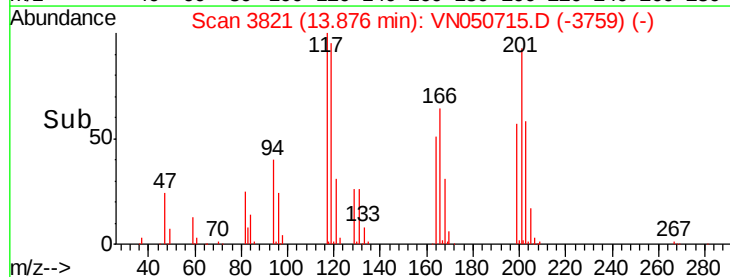
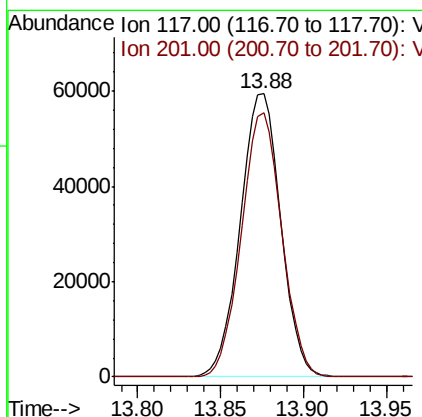
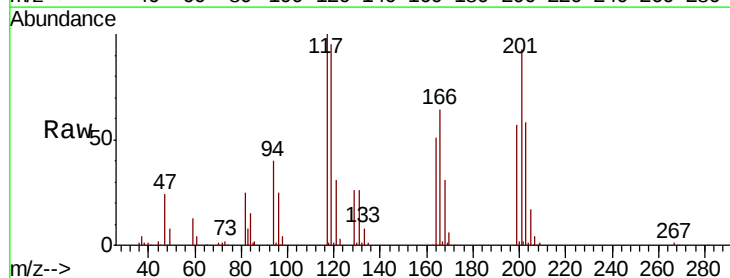
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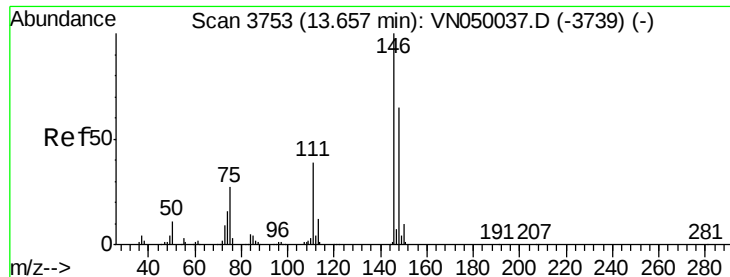
MMDadoda
8/20/2018 10:35:48 AM



#86
Hexachloroethane
Concen: 19.13 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	100959		
201	92.7	46.6	139.7	





#87

1,2-Dichlorobenzene

Concen: 19.84 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. -0.00 min

Lab File: VN050715.D

Acq: 17 Aug 2018 8:00

Instrument :

MSVOA_N

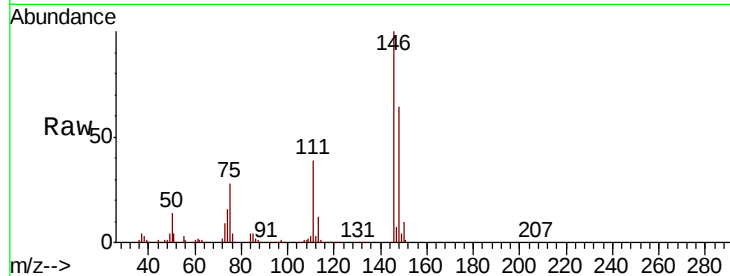
ClientSampleId :

VSTDCCC020

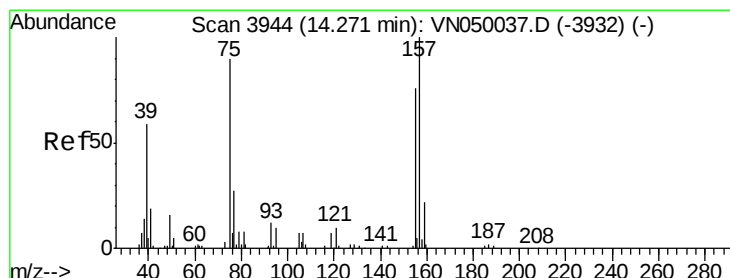
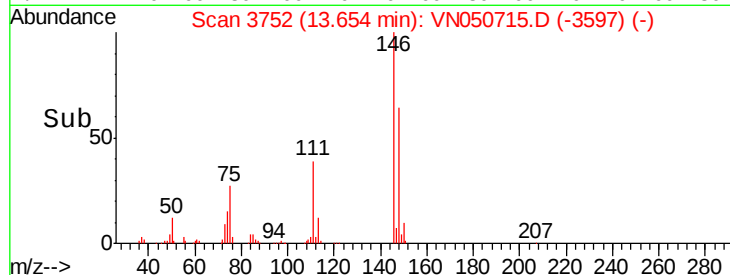
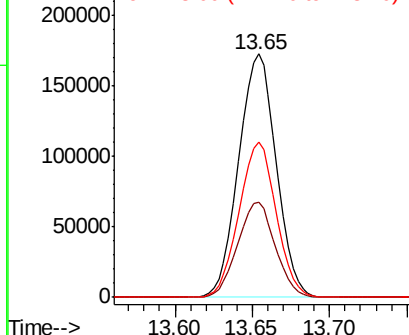
Tot Ion:	146	Resp:	291822
Ion Ratio		Lower	Upper
146	100		
111	39.1	19.8	59.3
148	63.1	31.8	95.3

Manual Integrations
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Abundance Ion 146.00 (145.70 to 146.70): V
Ion 111.00 (110.70 to 111.70): V
Ion 148.00 (147.70 to 148.70): V



#88

1,2-Dibromo-3-Chloropropane

Concen: 16.12 ug/l

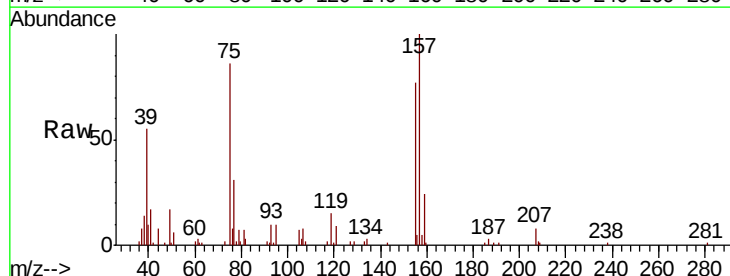
RT: 14.27 min Scan# 3943

Delta R.T. -0.00 min

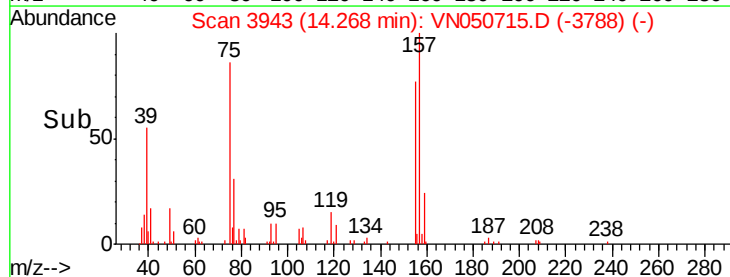
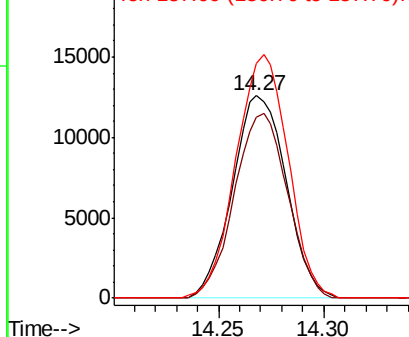
Lab File: VN050715.D

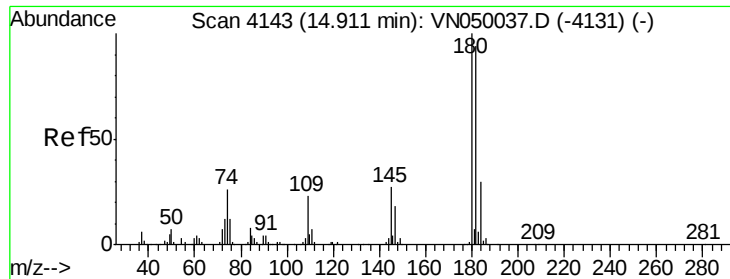
Acq: 17 Aug 2018 8:00

Tgt Ion:	75	Resp:	22372
Ion Ratio		Lower	Upper
75	100		
155	90.0	73.0	109.6
157	116.2	94.9	142.3



Abundance Ion 75.00 (74.70 to 75.70): V
Ion 155.00 (154.70 to 155.70): V
Ion 157.00 (156.70 to 157.70): V





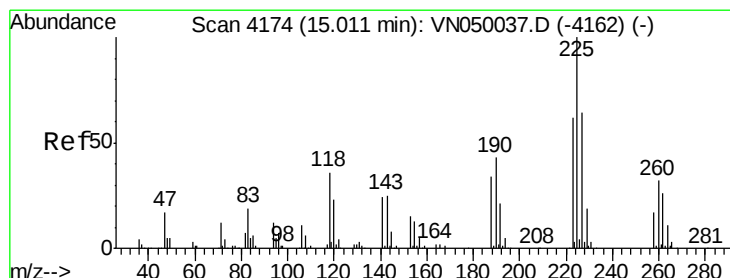
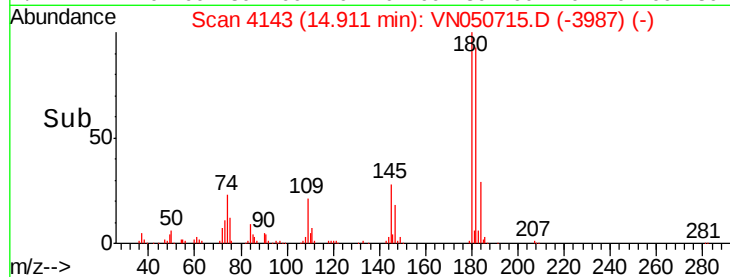
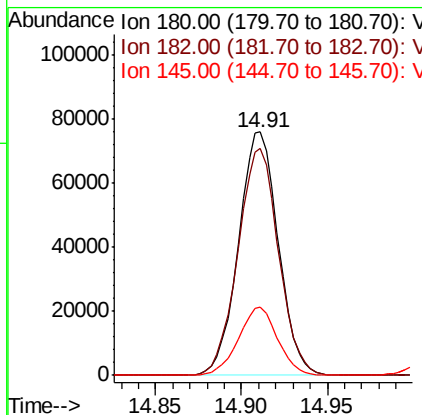
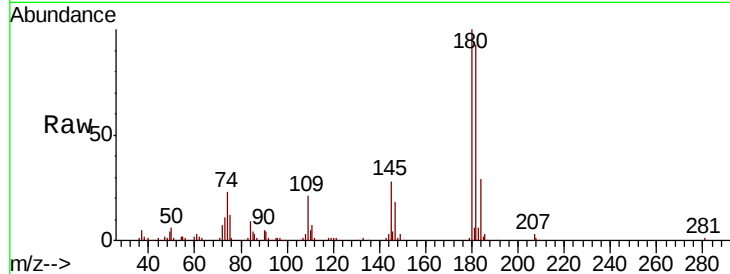
#89
 1,2,4-Trichlorobenzene
 Concen: 17.39 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. 0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020

Tot Ion	Ratio	Resp	Lower	Upper
180	100	122164		
182	95.2	76.7	115.1	
145	27.7	23.4	35.0	

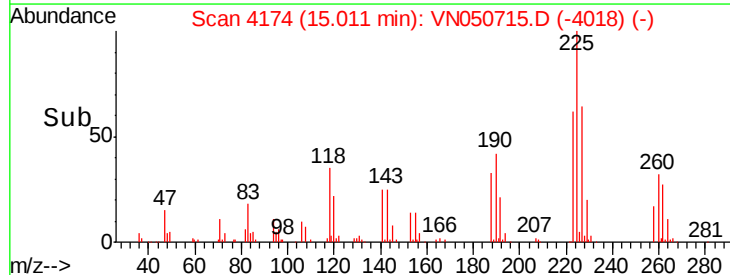
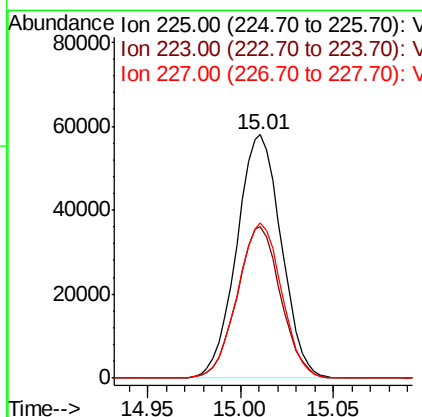
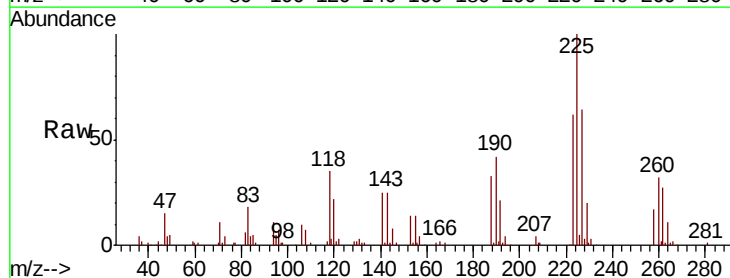
Manual Integrations
 APPROVED

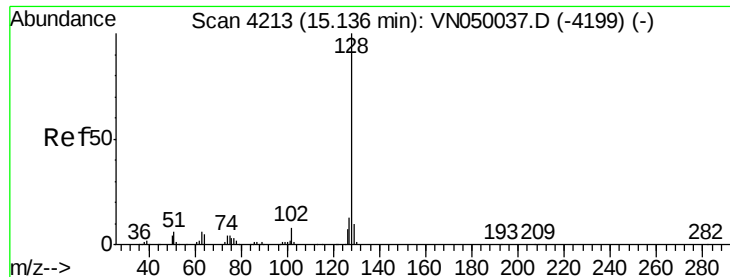
MMDadoda
 8/20/2018 10:35:48 AM



#90
 Hexachlorobutadiene
 Concen: 20.89 ug/l
 RT: 15.01 min Scan# 4174
 Delta R.T. 0.00 min
 Lab File: VN050715.D
 Acq: 17 Aug 2018 8:00

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	96756		
223	60.7	0.0	124.4	
227	62.8	0.0	133.0	





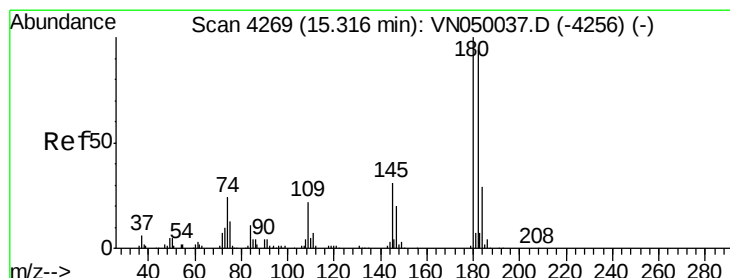
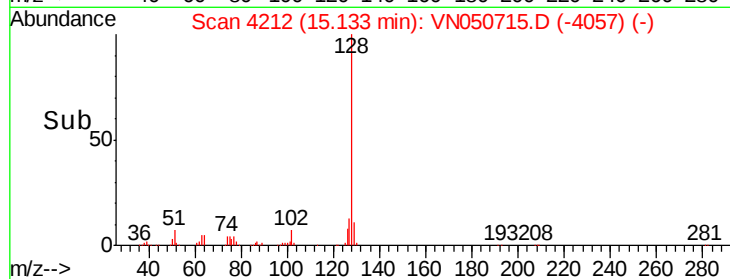
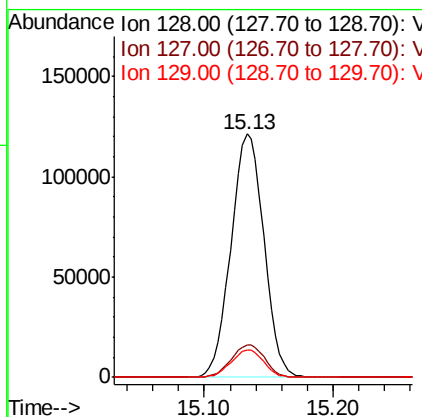
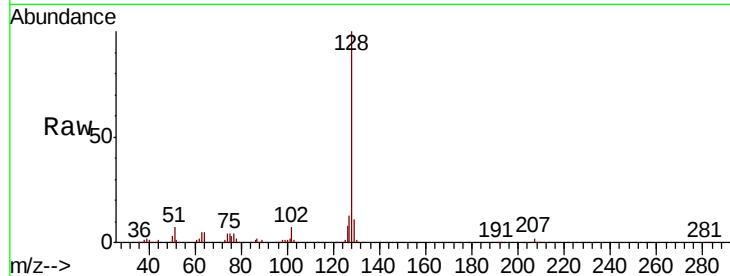
#91
Naphthalene
Concen: 17.42 ug/l
RT: 15.13 min Scan# 4212
Delta R.T. -0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020

Tot Ion:	128	Resp:	215427
Ion Ratio	Lower	Upper	
128	100		
127	13.6	10.2	15.4
129	11.2	9.0	13.4

Manual Integrations
APPROVED

MMDadoda
8/20/2018 10:35:48 AM



#92
1,2,3-Trichlorobenzene
Concen: 17.16 ug/l
RT: 15.32 min Scan# 4269
Delta R.T. 0.00 min
Lab File: VN050715.D
Acq: 17 Aug 2018 8:00

Tgt Ion:	180	Resp:	122613
Ion Ratio	Lower	Upper	
180	100		
182	94.5	0.0	188.8
145	30.6	0.0	60.8

