

Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
 Data File : VN050047.D
 Acq On : 25 Jul 2018 15:56
 Operator : MD\SY
 Sample : VSTDCCC020
 Misc : 5.00mL/MSVOA N/WATER
 ALS Vial : 14 Sample Multiplier: 1

Instrument :
 MSVOA_N
 ClientSampleID :
 VSTDCCC020EC

Manual Integrations
 APPROVED

MMDadoda
 7/26/2018 3:54:37 PM

Quant Time: Jul 26 06:49:10 2018
 Quant Method : Z:\VOASRV\HPCHEM1\MSVOA N\METHODS\624N072518W.M
 Quant Title : METHOD 624 VOLATILE ORGANIC ANALYSIS
 QLast Update : Wed Jul 25 10:32:46 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.20	128	124978	30.00	ug/l	0.00
28) 1,4-Difluorobenzene	8.59	114	649457	30.00	ug/l	0.00
57) Chlorobenzene-d5	11.41	117	568215	30.00	ug/l	0.00

System Monitoring Compounds

27) 1,2-Dichloroethane-d4	8.03	65	260065	30.61	ug/l	0.00
Spiked Amount	30.000	Range	50 - 169	Recovery	=	102.03%
60) 4-Bromofluorobenzene	12.40	95	253662	29.06	ug/l	0.00
Spiked Amount	30.000	Range	56 - 143	Recovery	=	96.87%
63) Toluene-d8	10.09	98	815237	30.04	ug/l	0.00
Spiked Amount	30.000	Range	66 - 137	Recovery	=	100.13%

Target Compounds

						Ovalue
2) Dichlorodifluoromethane	1.85	85	175842	20.42	ug/l	99
3) Chloromethane	2.06	50	170800	19.23	ug/l	100
4) Vinyl Chloride	2.18	62	182441	19.30	ug/l	99
5) Bromomethane	2.56	94	117103	20.32	ug/l	99
6) Chloroethane	2.70	64	105562	18.88	ug/l	99
7) Trichlorofluoromethane	3.01	101	238682	19.32	ug/l	99
8) Diethyl Ether	3.41	74	82648	19.94	ug/l	96
9) 1,1,2-Trichlorotrifluoroet	3.75	101	150042	19.97	ug/l	98
10) 1,1-Dichloroethene	3.73	96	126843	19.04	ug/l	93
11) Methyl Iodide	3.95	142	166075	16.94	ug/l	99
12) Methyl Acetate	4.33	43	162846	21.33	ug/l	97
13) Acrolein	3.61	56	34874	73.93	ug/l	100
14) Acrylonitrile	4.99	53	256822	100.83	ug/l	99
15) Acetone	3.82	58	71541	105.69	ug/l	96
16) Carbon Disulfide	4.05	76	375670	18.42	ug/l	100
17) Allyl chloride	4.32	41	202896	19.28	ug/l	99
18) Methylene Chloride	4.55	84	149671	19.47	ug/l	97
19) trans-1,2-Dichloroethene	5.04	96	137499	19.27	ug/l	95
20) Diisopropyl ether	5.96	45	435577	20.19	ug/l	99
21) 1,1-Dichloroethane	5.85	63	263140	19.39	ug/l	99
22) cis-1,2-Dichloroethene	6.83	96	154831	19.57	ug/l	100
23) tert-Butyl Alcohol	4.80	59	60312	105.88	ug/l	# 100
24) Methyl tert-Butyl Ether	5.05	73	371770	20.46	ug/l	100
25) Chloroform	7.37	83	270484	19.69	ug/l	99
26) Cyclohexane	7.65	56	206078	19.11	ug/l	# 98
29) 1,1-Dichloropropene	7.79	75	195174	19.36	ug/l	99
30) 2-Butanone	6.84	43	316592	100.10	ug/l	98
31) 2,2-Dichloropropane	6.82	77	214756	19.28	ug/l	99
32) 1,1,1-Trichloroethane	7.57	97	225845	19.04	ug/l	99
33) Carbon Tetrachloride	7.77	117	201445	19.05	ug/l	98
34) Benzene	8.04	78	589769	19.27	ug/l	99
35) Methacrylonitrile	7.18	41	69048	19.17	ug/l	96
36) 1,2-Dichloroethane	8.13	62	197507	19.65	ug/l	100
37) Trichloroethene	8.84	130	156126	19.45	ug/l	95
38) Methylcyclohexane	9.08	83	198931	18.72	ug/l	99
39) 1,2-Dichloropropane	9.12	63	158157	19.61	ug/l	99
40) Dibromomethane	9.21	93	98541	19.77	ug/l	98

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Manual Integrations
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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
41) Bromodichloromethane	9.40	83	202846	19.30	ug/l	97
42) Vinyl Acetate	5.90	43	1467915	98.63	ug/l	99
43) Ethyl Acetate	6.93	43	128816	19.50	ug/l	94
44) Isopropyl Acetate	8.17	43	255699	20.90	ug/l	95
45) 1,4-Dioxane	9.20	88	32137	399.18	ug/l	95
46) Methyl methacrylate	9.20	41	118284	19.94	ug/l	98
47) n-amyl Acetate	12.07	43	171962	18.06	ug/l	98
48) t-1,3-Dichloropropene	10.38	75	195602	18.77	ug/l	99
49) cis-1,3-Dichloropropene	9.84	75	228624	19.42	ug/l	99
50) 1,1,2-Trichloroethane	10.56	97	140830	19.69	ug/l	98
51) Ethyl methacrylate	10.43	69	162891	18.76	ug/l	98
52) 1,3-Dichloropropane	10.71	76	230943	19.66	ug/l	97
53) Dibromochloromethane	10.90	129	155318	19.13	ug/l	99
54) 1,2-Dibromoethane	11.01	107	136556	19.49	ug/l	99
55) 2-Chloroethyl vinyl ether	9.70	63	397675	101.20	ug/l	99
56) Bromoform	12.13	173	108388	18.91	ug/l	99
58) 4-Methyl-2-Pentanone	9.99	43	689939	104.35	ug/l	99
59) 2-Hexanone	10.75	43	453145	100.46	ug/l	99
61) Tetrachloroethene	10.63	164	149399	19.41	ug/l	97
62) Toluene	10.16	91	626484	19.32	ug/l	99
64) Chlorobenzene	11.44	112	379324	19.30	ug/l	100
65) 1,1,1,2-Tetrachloroethane	11.51	131	149193	19.46	ug/l	99
66) Ethyl Benzene	11.51	91	627419	18.94	ug/l	99
67) m/p-Xylenes	11.62	106	490398	38.46	ug/l	100
68) o-Xylene	11.95	106	229196	18.89	ug/l	98
69) Styrene	11.97	104	366983	18.87	ug/l	99
70) Isopropylbenzene	12.25	105	622258	19.26	ug/l	99
71) 1,1,2,2-Tetrachloroethane	12.51	83	175969	19.84	ug/l	98
72) 1,2,3-Trichloropropane	12.56	75	152486m	20.85	ug/l	
73) Bromobenzene	12.53	156	164456	19.11	ug/l	99
74) n-propylbenzene	12.59	91	708017	18.82	ug/l	100
75) 2-Chlorotoluene	12.68	91	436604	19.32	ug/l	100
76) 1,3,5-Trimethylbenzene	12.73	105	506591	19.09	ug/l	99
77) t-1,4-Dichloro-2-butene	12.30	75	45152	18.23	ug/l	93
78) 4-Chlorotoluene	12.78	91	423575	18.91	ug/l	99
79) tert-butylbenzene	12.99	119	431613	19.03	ug/l	99
80) 1,2,4-Trimethylbenzene	13.04	105	518943	19.30	ug/l	99
81) sec-Butylbenzene	13.17	105	588243	19.09	ug/l	100
82) p-Isopropyltoluene	13.29	119	500922	19.05	ug/l	99
83) 1,3-Dichlorobenzene	13.28	146	280485	18.72	ug/l	99
84) 1,4-Dichlorobenzene	13.36	146	270719	19.12	ug/l	99
85) n-Butylbenzene	13.62	91	387623	18.16	ug/l	99
86) Hexachloroethane	13.88	117	96352	18.34	ug/l	97
87) 1,2-Dichlorobenzene	13.65	146	282549	19.29	ug/l	99
88) 1,2-Dibromo-3-Chloropropan	14.27	75	28181	20.39	ug/l	96
89) 1,2,4-Trichlorobenzene	14.91	180	127693	18.25	ug/l	99
90) Hexachlorobutadiene	15.01	225	89341	19.37	ug/l	98
91) Naphthalene	15.14	128	272169	20.05	ug/l	99
92) 1,2,3-Trichlorobenzene	15.32	180	133280	18.73	ug/l	100

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QLast Update : Wed Jul 25 10:32:46 2018
Response via : Initial Calibration

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

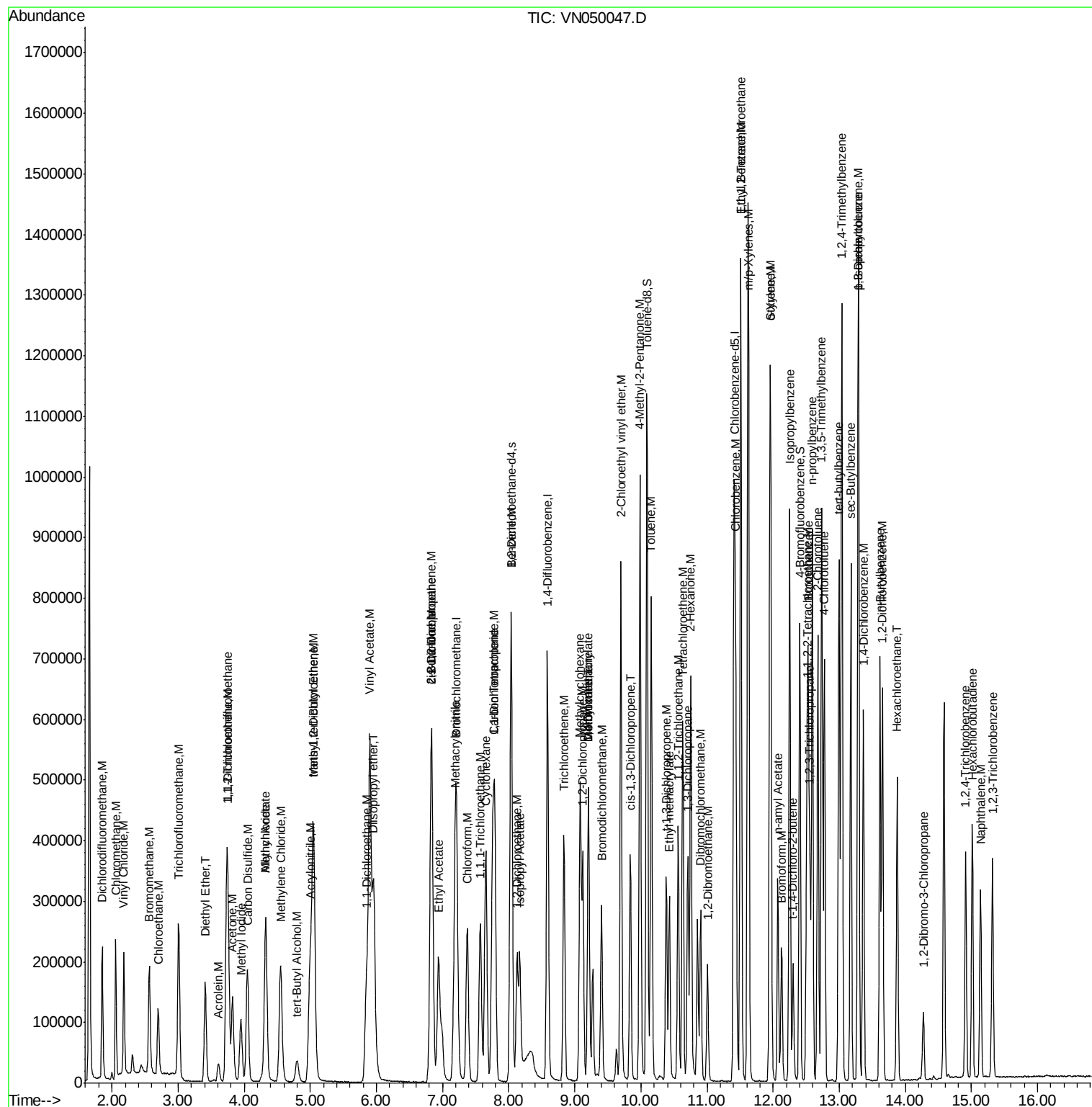
Data Path : Z:\VOASRV\HPCHEM1\MSVOA N\DATA\VN072518\
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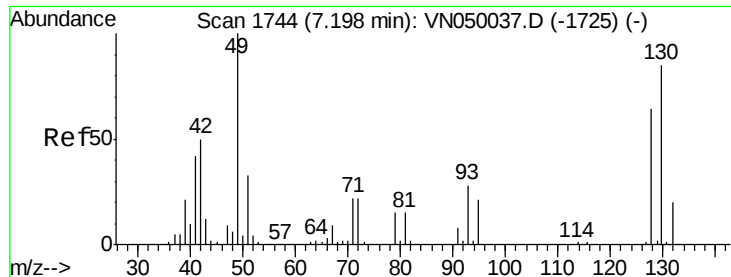
Instrument :
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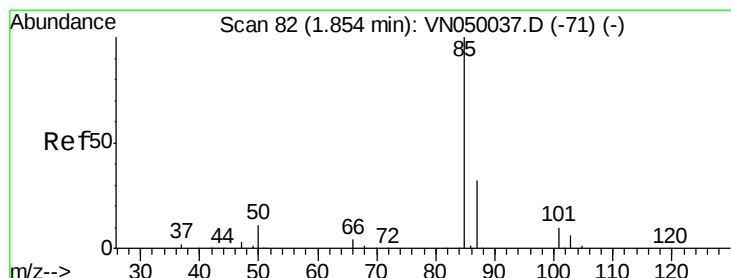
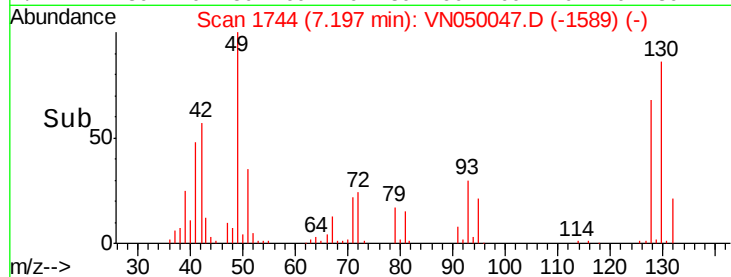
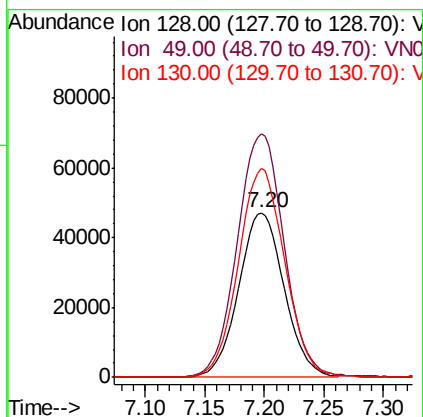
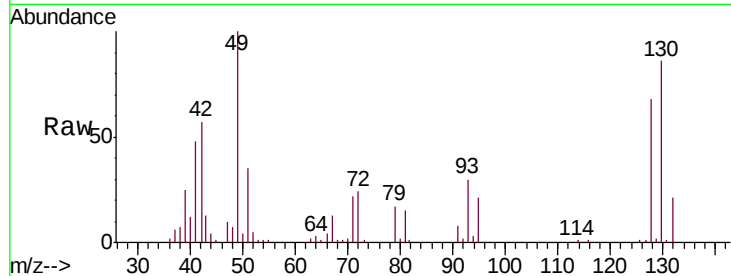
#1
Bromochloromethane
Concen: 30.00 ug/l
RT: 7.20 min Scan# 1744
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
128	100		
49	153.0	0.0	378.3
130	129.7	0.0	320.7

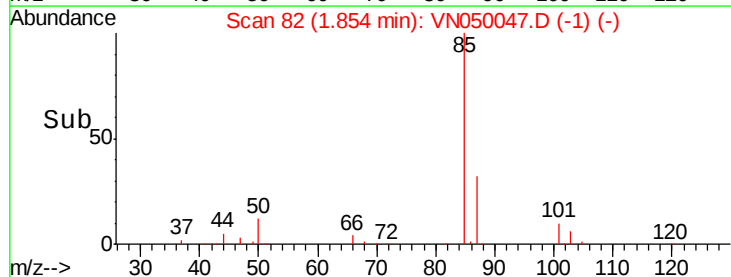
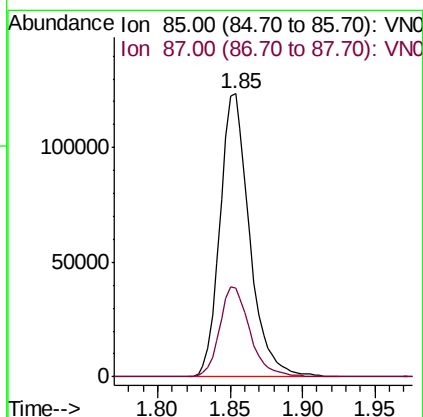
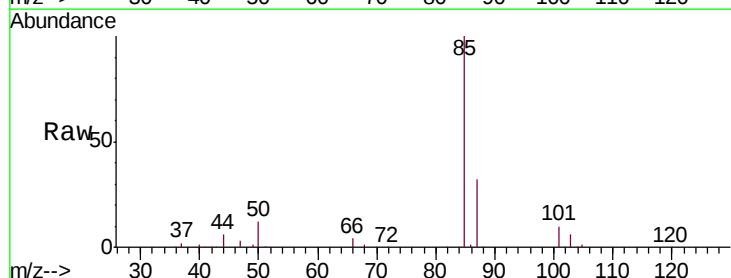
Manual Integrations
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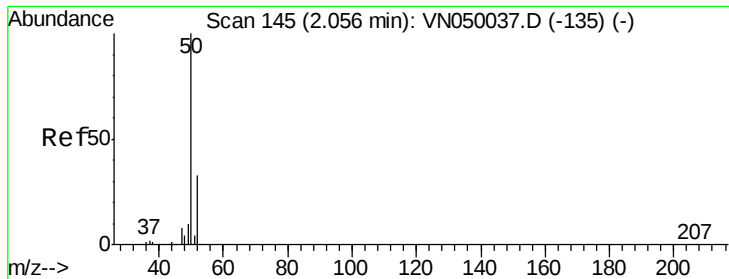
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#2
Dichlorodifluoromethane
Concen: 20.42 ug/l
RT: 1.85 min Scan# 82
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
85	100		
87	31.6	15.4	46.4





#3

Chloromethane

Concen: 19.23 ug/l

RT: 2.06 min Scan# 145

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 50 Resp: 170800

Ion Ratio Lower Upper

50 100

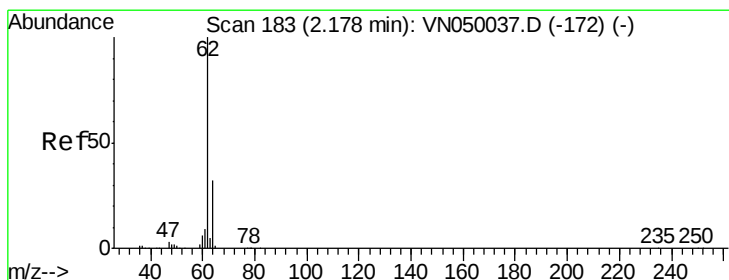
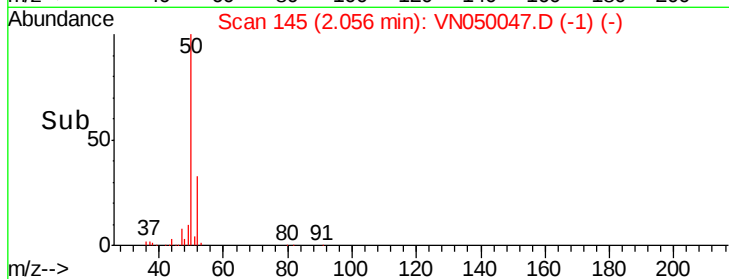
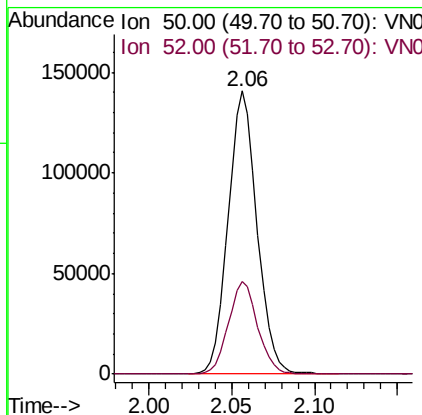
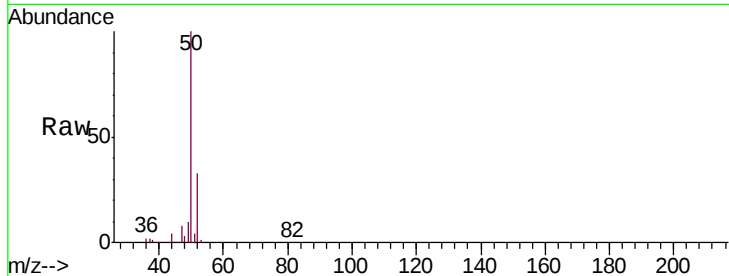
52 32.8 26.1 39.1

Manual Integrations

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#4

Vinyl Chloride

Concen: 19.30 ug/l

RT: 2.18 min Scan# 183

Delta R.T. -0.00 min

Lab File: VN050047.D

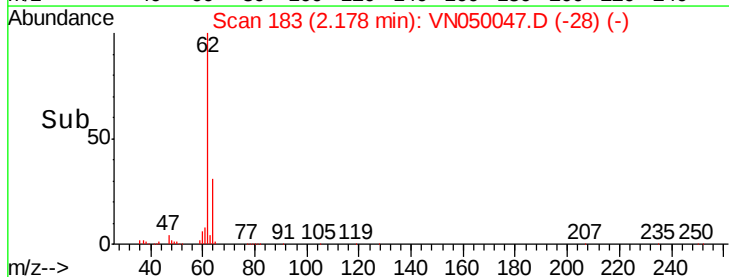
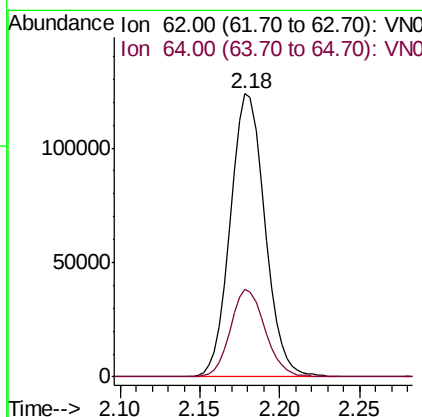
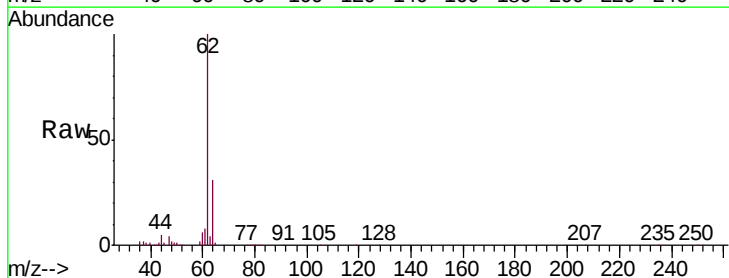
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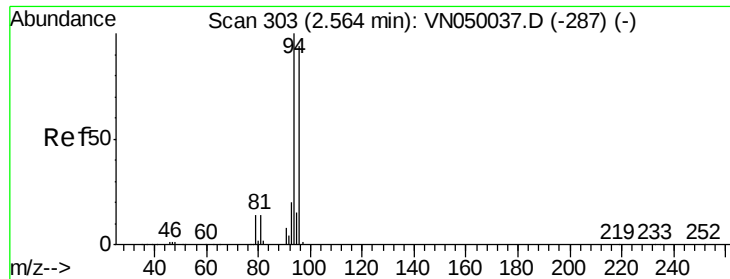
Tgt Ion: 62 Resp: 182441

Ion Ratio Lower Upper

62 100

64 30.9 24.4 36.6





#5

Bromomethane

Concen: 20.32 ug/l

RT: 2.56 min Scan# 303

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 94 Resp: 117103

Ion Ratio Lower Upper

94 100

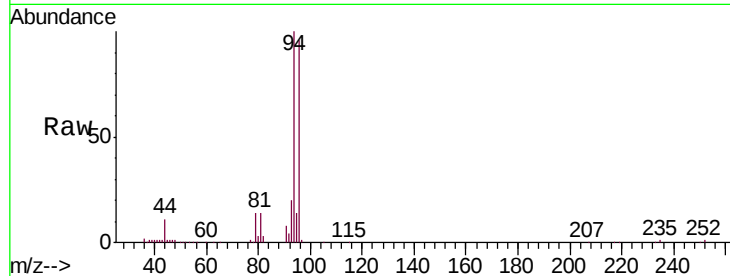
96 96.1 75.9 113.9

Manual Integrations

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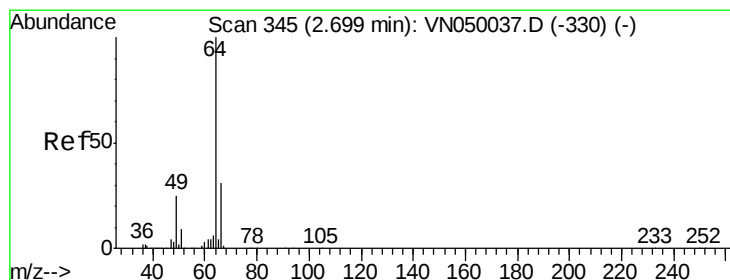
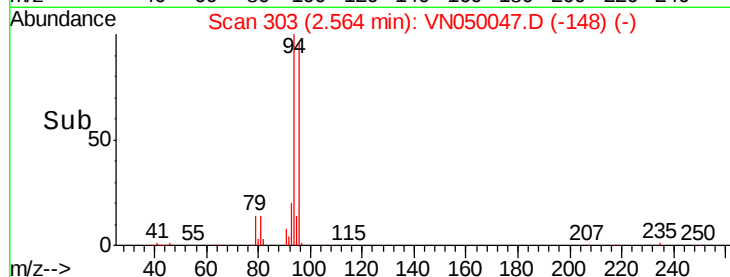
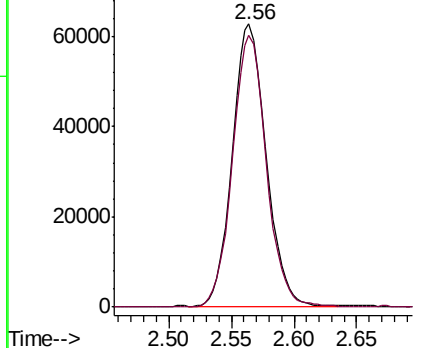
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Abundance Ion 94.00 (93.70 to 94.70): VN0

Ion 96.00 (95.70 to 96.70): VN0



#6

Chloroethane

Concen: 18.88 ug/l

RT: 2.70 min Scan# 345

Delta R.T. -0.00 min

Lab File: VN050047.D

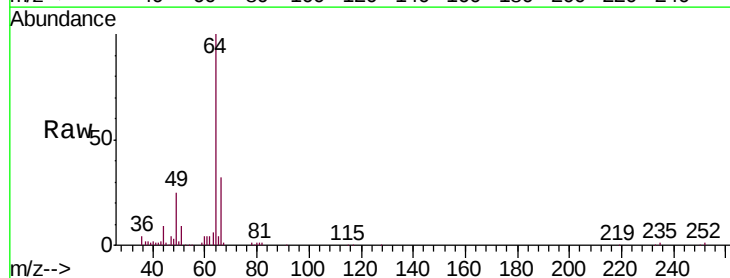
Acq: 25 Jul 2018 15:56

Tgt Ion: 64 Resp: 105562

Ion Ratio Lower Upper

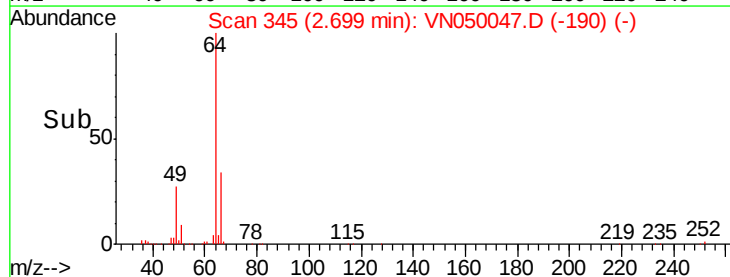
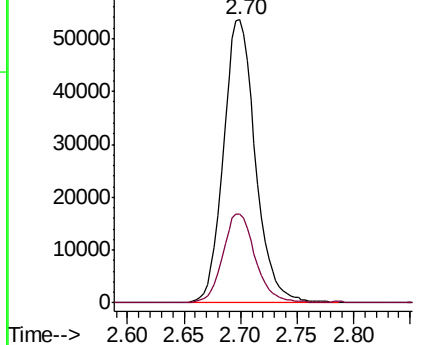
64 100

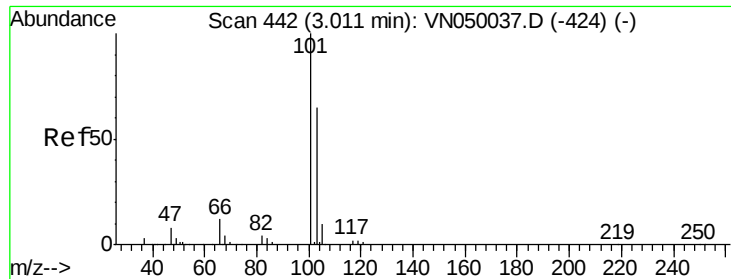
66 31.5 25.0 37.4



Abundance Ion 64.00 (63.70 to 64.70): VN0

Ion 66.00 (65.70 to 66.70): VN0





#7

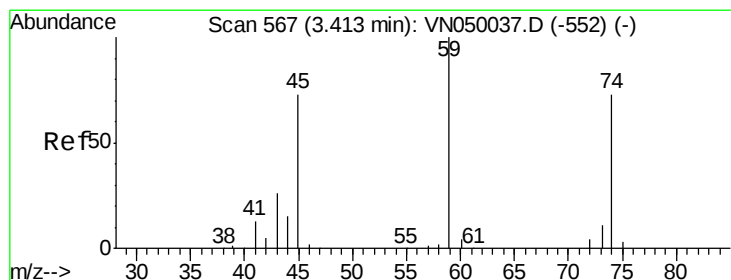
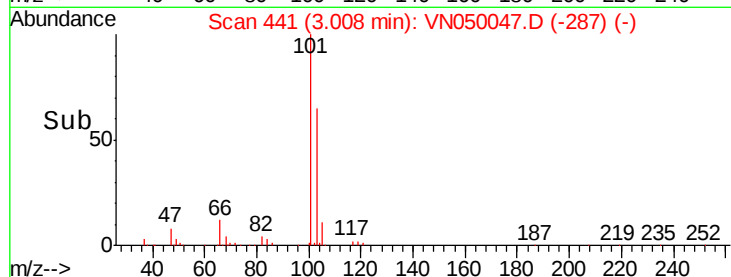
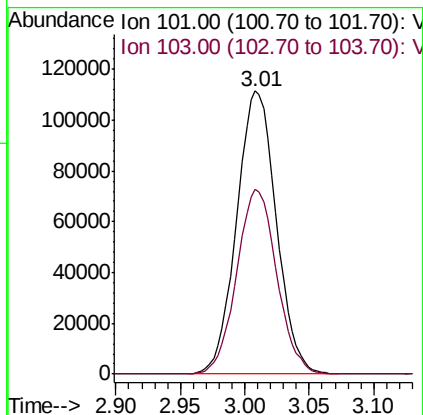
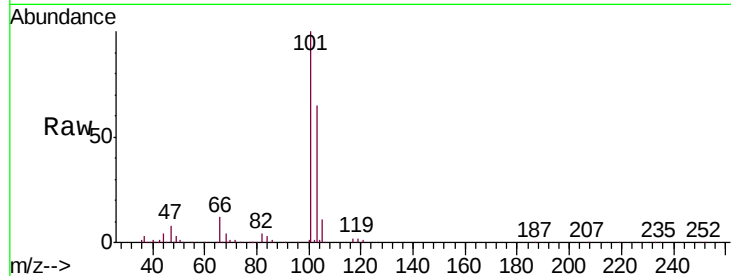
Trichlorofluoromethane
Concen: 19.32 ug/l
RT: 3.01 min Scan# 441
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
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Tot Ion	Ratio	Lower	Upper
101	100		
103	65.2	51.5	77.3

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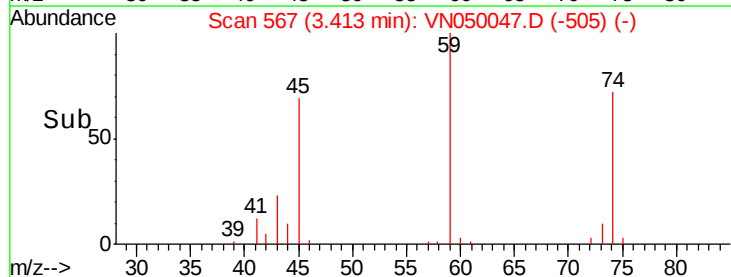
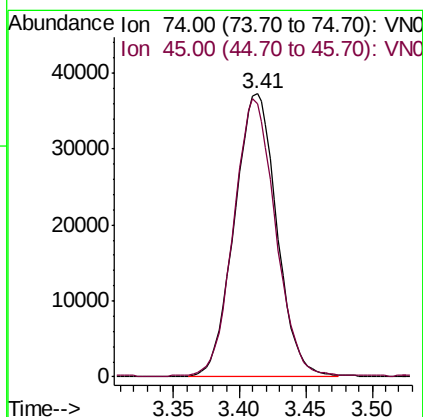
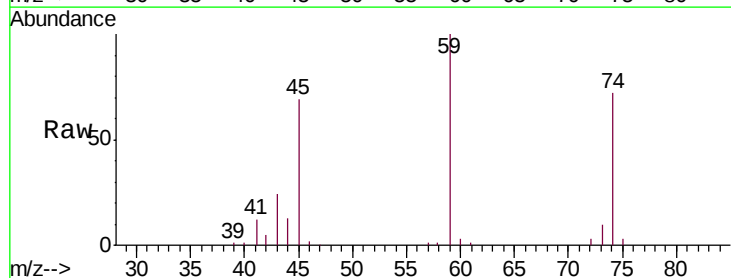
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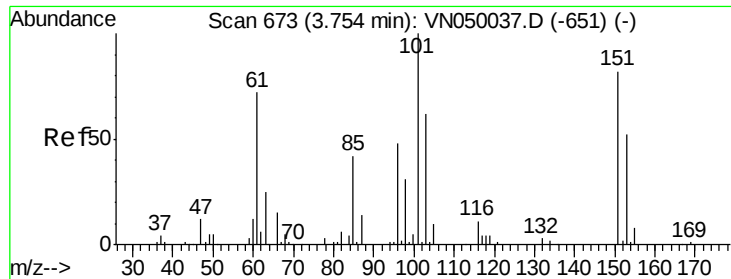


#8

Diethyl Ether
Concen: 19.94 ug/l
RT: 3.41 min Scan# 567
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
74	100		
45	97.5	18.7	167.9





#9

1,1,2-Trichlorotrifluoroethane

Concen: 19.97 ug/l

RT: 3.75 min Scan# 673

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

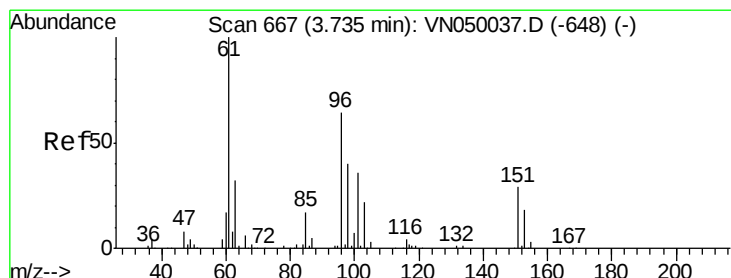
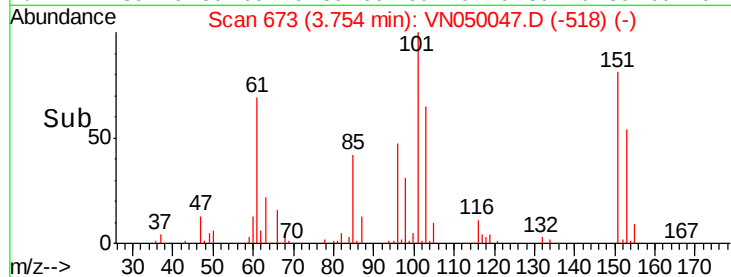
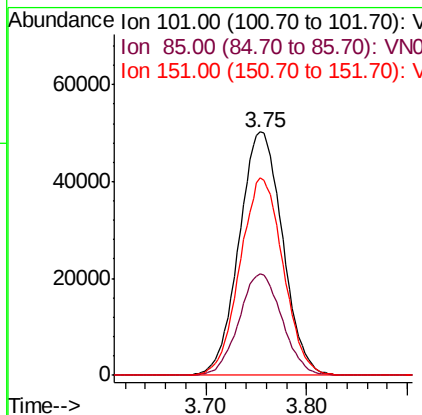
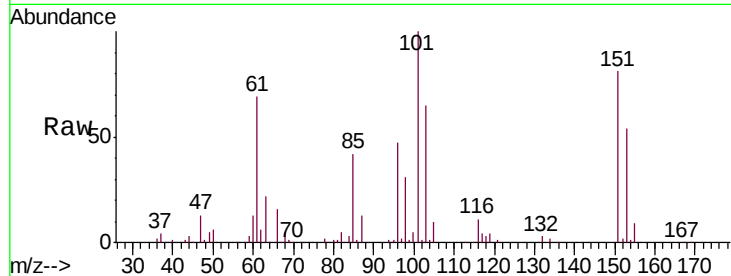
ClientSampleId :

VSTDCCC020EC

Tot Ion:	101	Resp:	150042
Ion Ratio	Lower	Upper	
101	100		
85	41.4	0.0	83.0
151	80.6	0.0	166.8

Manual Integrations
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#10

1,1-Dichloroethene

Concen: 19.04 ug/l

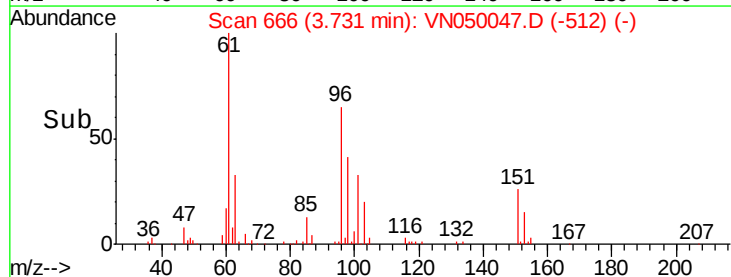
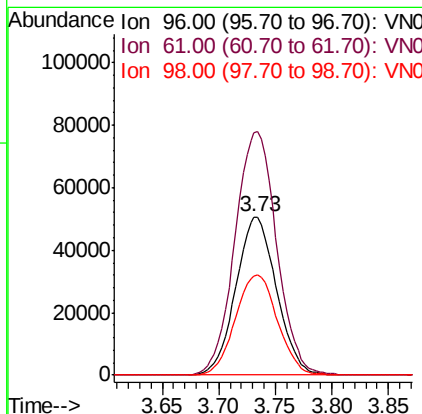
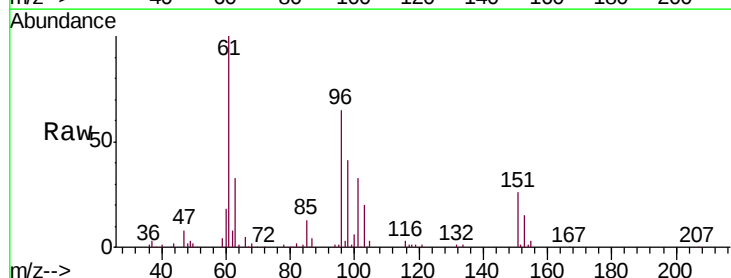
RT: 3.73 min Scan# 666

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Tgt Ion:	96	Resp:	126843
Ion Ratio	Lower	Upper	
96	100		
61	153.2	130.6	195.8
98	62.9	53.5	80.3





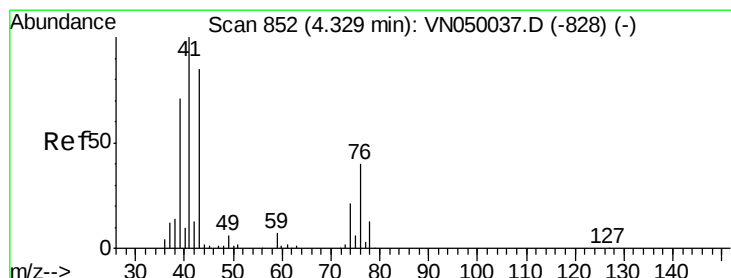
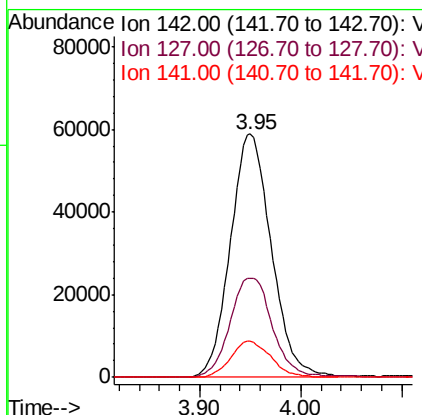
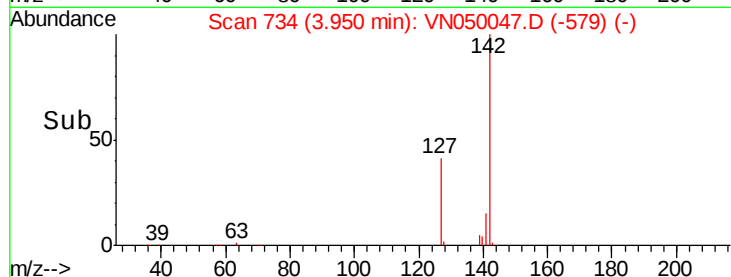
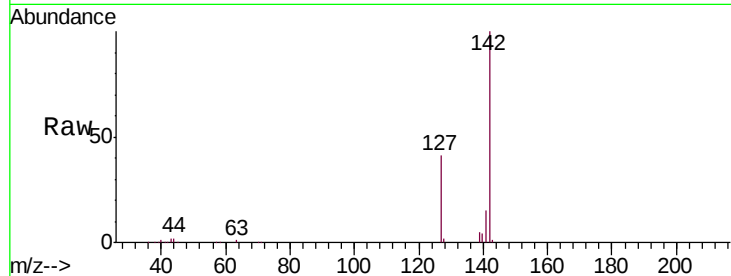
#11
Methyl Iodide
Concen: 16.94 ug/l
RT: 3.95 min Scan# 734
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
142	100		
127	40.4	20.2	60.5
141	15.2	6.9	20.6

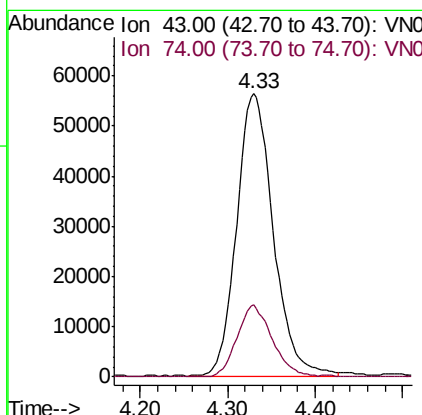
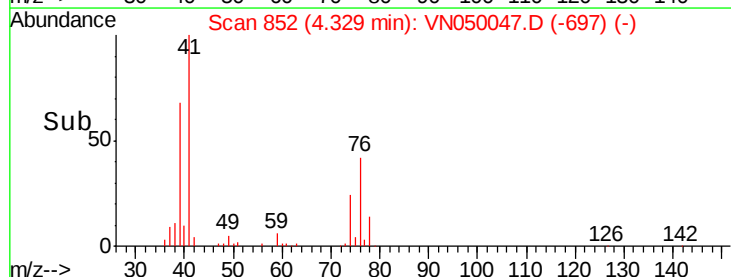
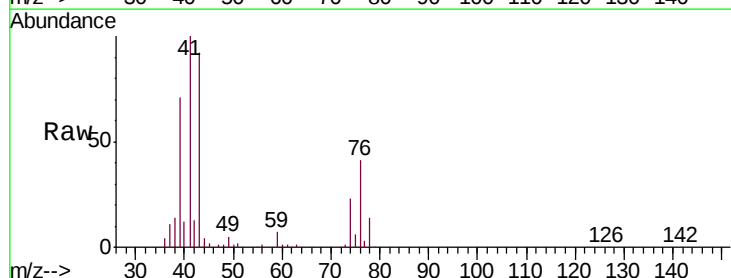
Manual Integrations
APPROVED

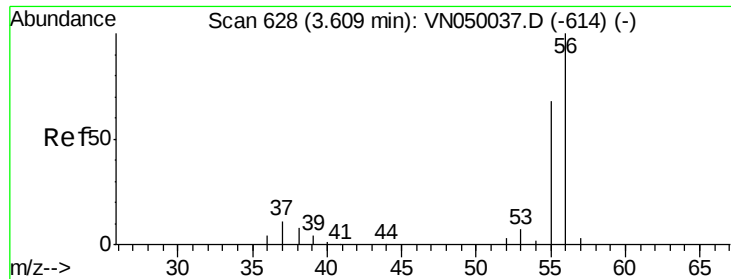
MMDadoda
7/26/2018 3:54:37 PM



#12
Methyl Acetate
Concen: 21.33 ug/l
RT: 4.33 min Scan# 852
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
43	100		
74	25.5	19.3	28.9





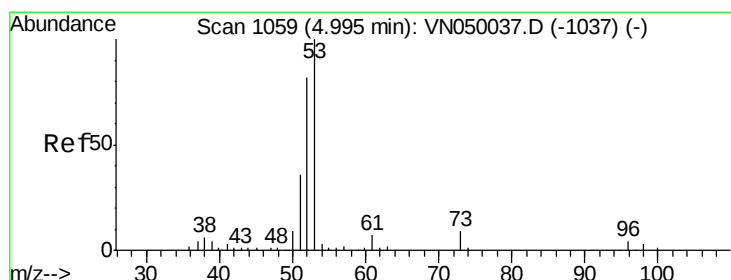
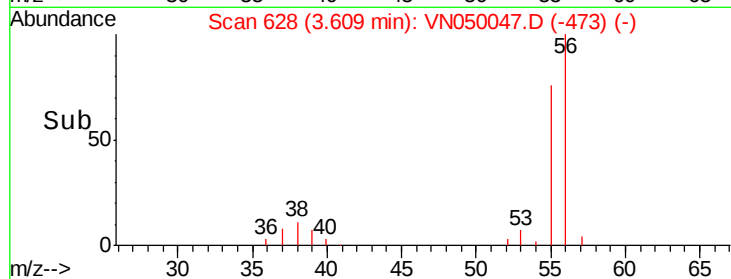
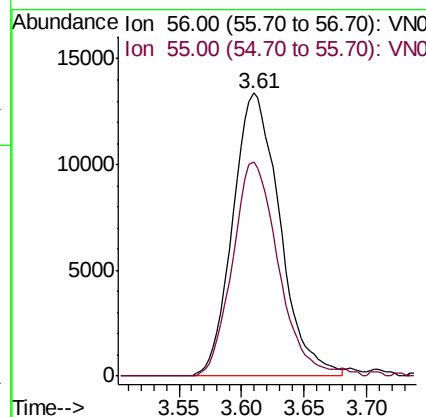
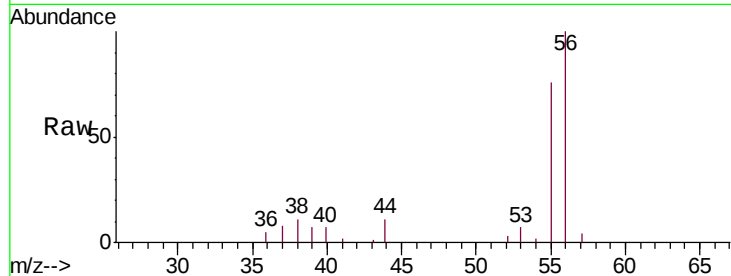
#13
Acrolein
Concen: 73.93 ug/l
RT: 3.61 min Scan# 628
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ion	Ratio	Lower	Upper
56	100			
55	73.2	58.6	88.0	

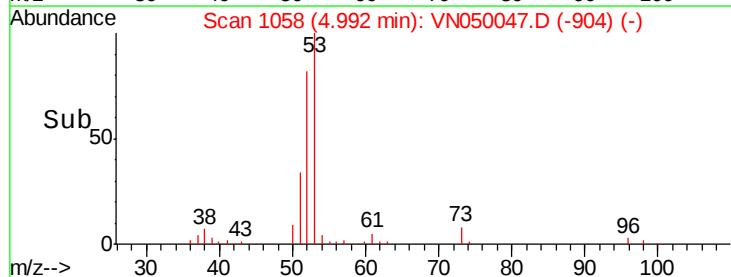
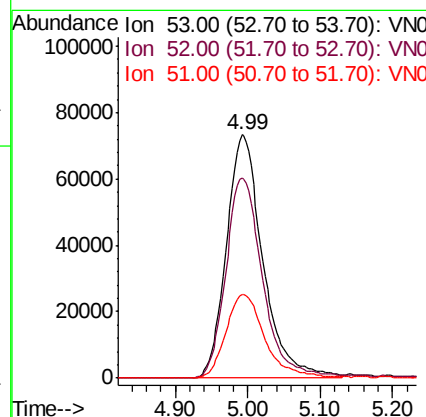
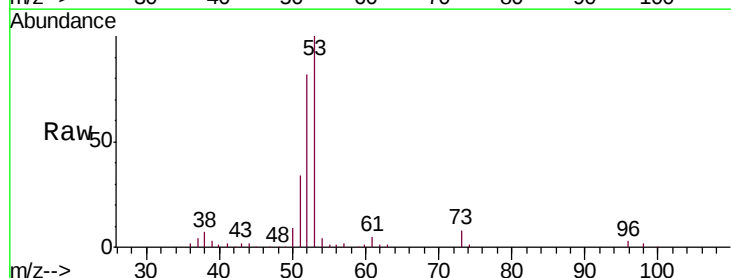
Manual Integrations
APPROVED

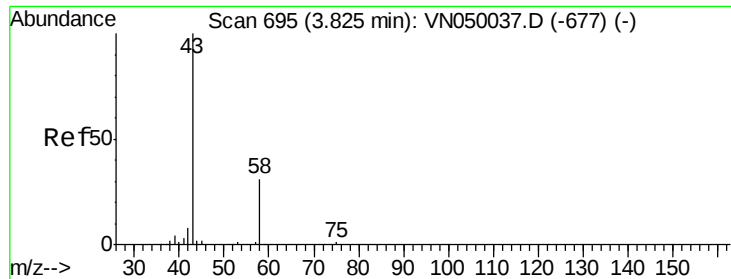
MMDadoda
7/26/2018 3:54:37 PM



#14
Acrylonitrile
Concen: 100.83 ug/l
RT: 4.99 min Scan# 1058
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ion	Ratio	Lower	Upper
53	100			
52	82.2	41.5	124.5	
51	36.0	18.7	56.1	





#15

Acetone

Concen: 105.69 ug/l

RT: 3.82 min Scan# 694

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 58 Resp: 71541

Ion Ratio Lower Upper

58 100

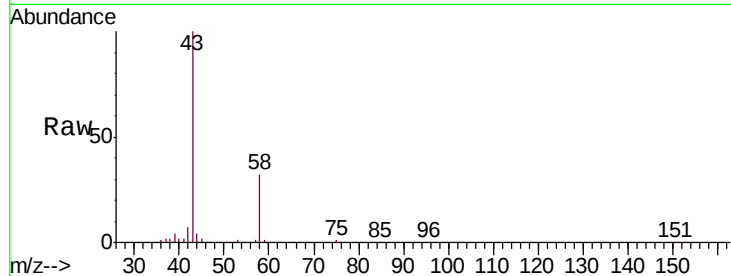
43 306.6 252.0 378.0

Manual Integrations

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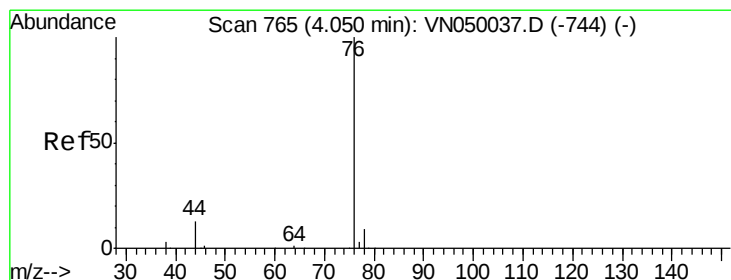
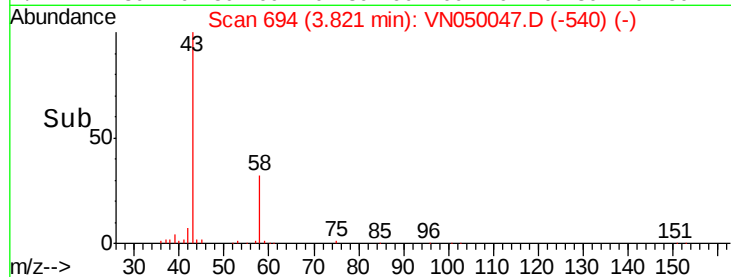
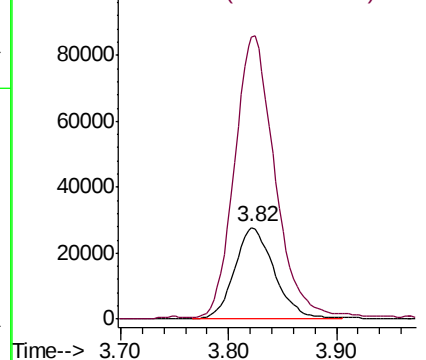
MMDadoda

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Abundance Ion 58.00 (57.70 to 58.70): VN050047.D (-677) (-)

Ion 43.00 (42.70 to 43.70): VN050047.D (-677) (-)



#16

Carbon Disulfide

Concen: 18.42 ug/l

RT: 4.05 min Scan# 765

Delta R.T. -0.00 min

Lab File: VN050047.D

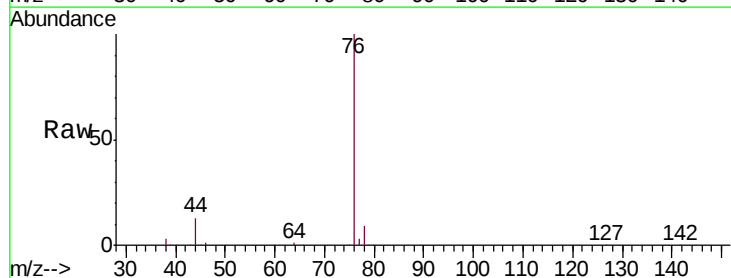
Acq: 25 Jul 2018 15:56

Tgt Ion: 76 Resp: 375670

Ion Ratio Lower Upper

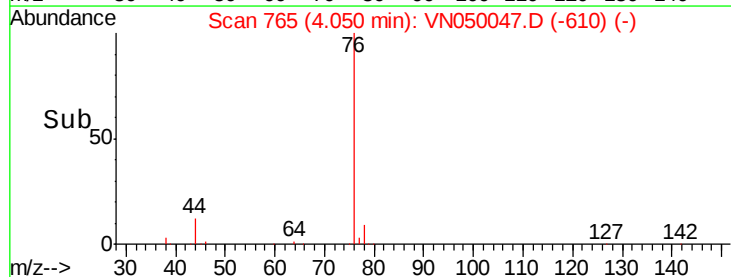
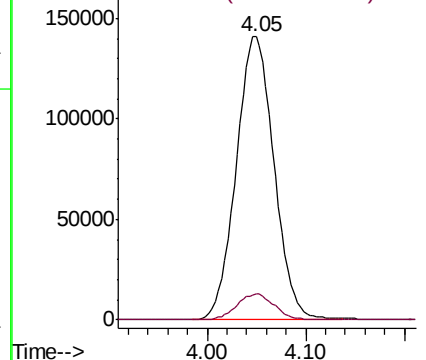
76 100

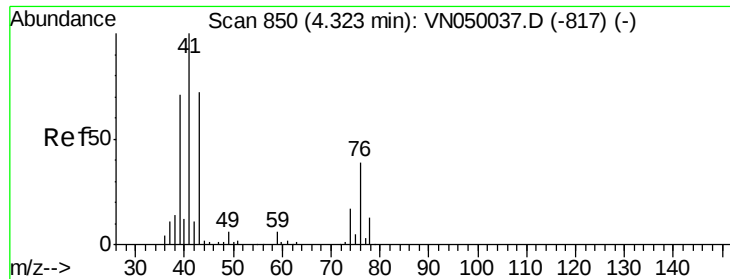
78 9.1 7.3 10.9



Abundance Ion 76.00 (75.70 to 76.70): VN050047.D (-744) (-)

Ion 78.00 (77.70 to 78.70): VN050047.D (-744) (-)





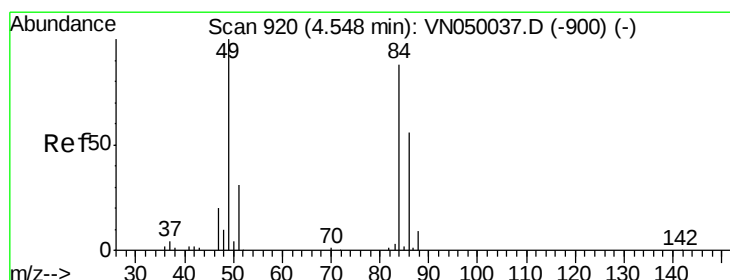
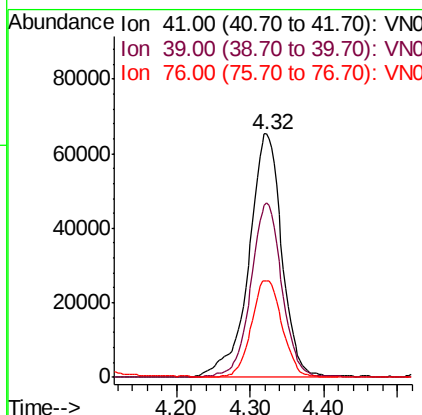
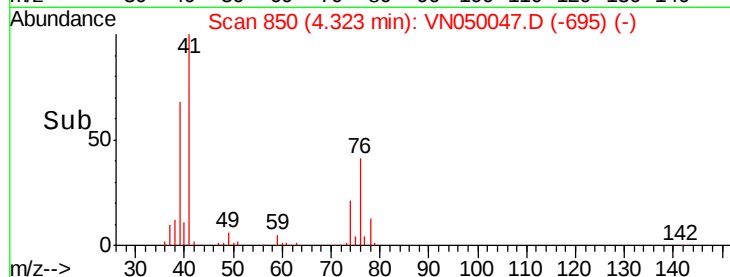
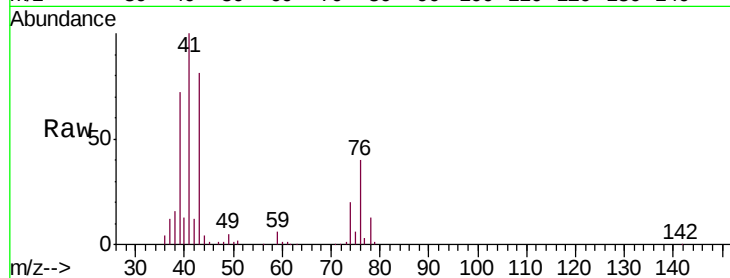
#17
Allvl chloride
Concen: 19.28 ug/l
RT: 4.32 min Scan# 850
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
41	100		
39	71.8	35.4	106.3
76	39.5	19.7	59.1

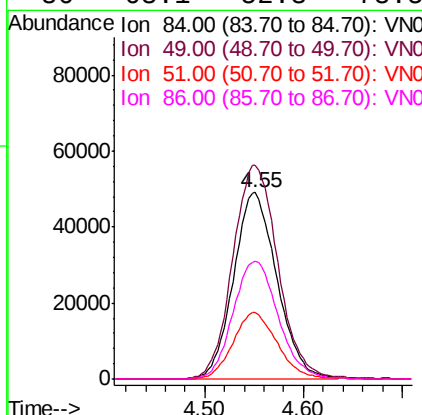
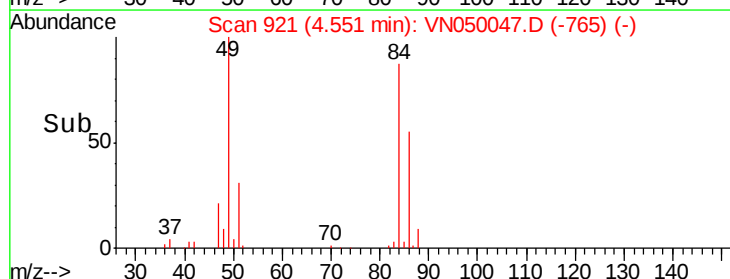
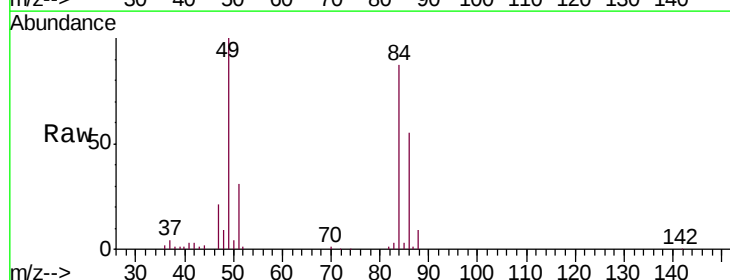
Manual Integrations
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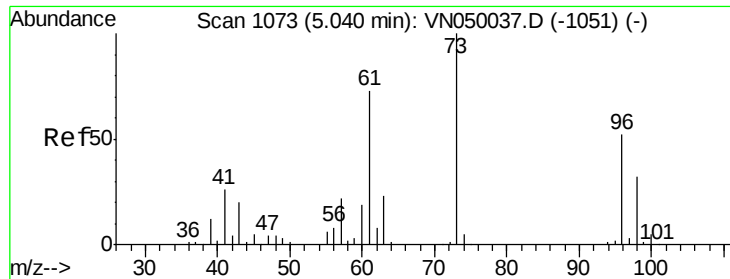
MMDadoda
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#18
Methylene Chloride
Concen: 19.47 ug/l
RT: 4.55 min Scan# 921
Delta R.T. 0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
84	100		
49	114.2	95.1	142.7
51	35.8	28.8	43.2
86	63.1	52.3	78.5





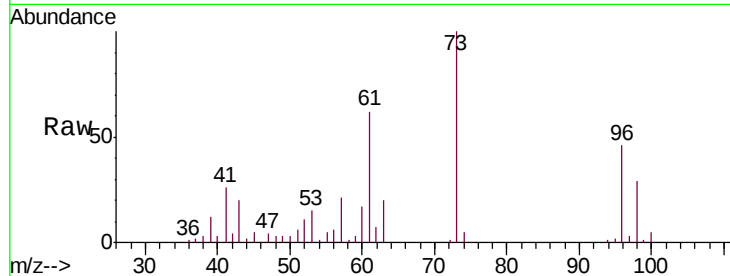
#19
trans-1,2-Dichloroethene
Concen: 19.27 ug/l
RT: 5.04 min Scan# 1073
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
96	100		
61	132.7	112.1	168.1
98	63.2	51.3	76.9

Manual Integrations
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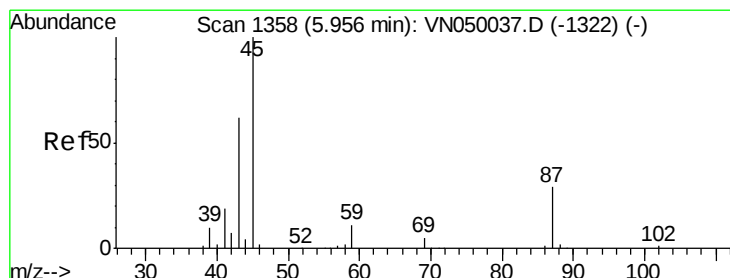
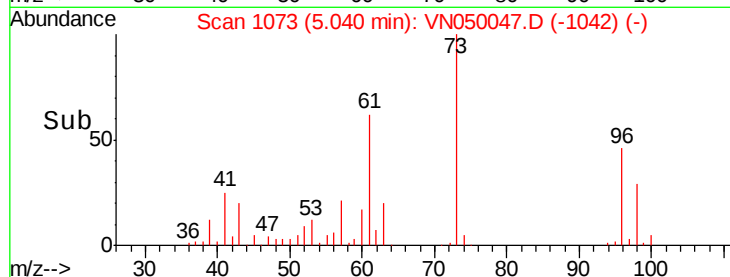
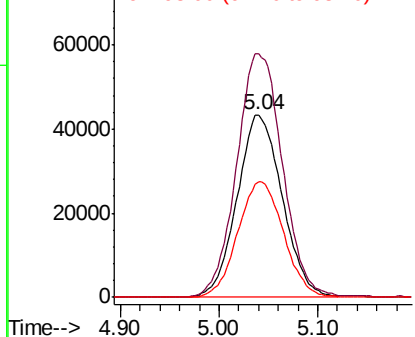


Abundance

Ion 96.00 (95.70 to 96.70): VNO

Ion 61.00 (60.70 to 61.70): VNO

Ion 98.00 (97.70 to 98.70): VNO



#20
Diisopropyl ether
Concen: 20.19 ug/l
RT: 5.96 min Scan# 1358
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
45	100		
43	58.9	46.6	70.0
87	28.0	22.3	33.5
59	11.5	9.5	14.3

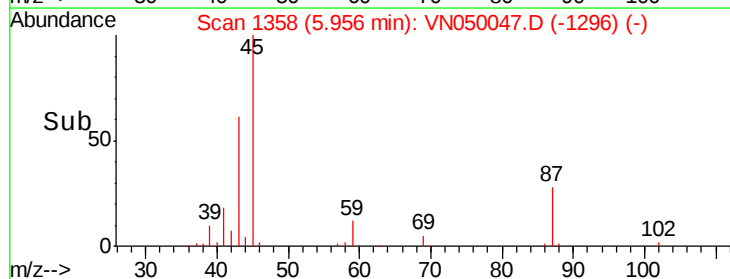
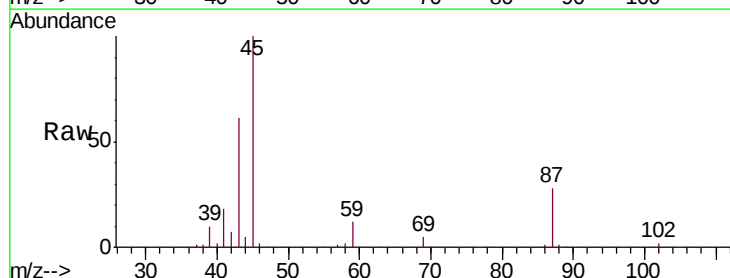
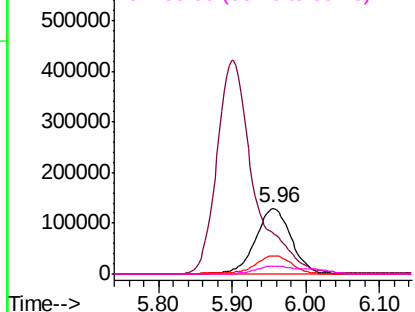
Abundance

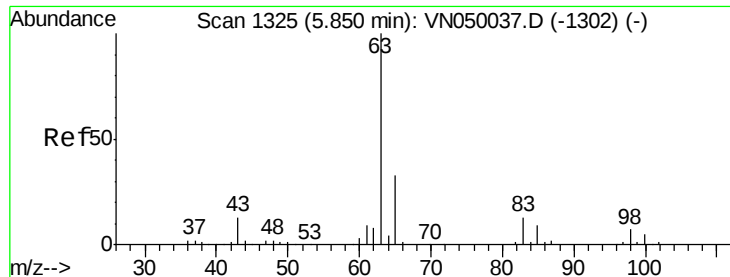
Ion 45.00 (44.70 to 45.70): VNO

Ion 43.00 (42.70 to 43.70): VNO

Ion 87.00 (86.70 to 87.70): VNO

Ion 59.00 (58.70 to 59.70): VNO





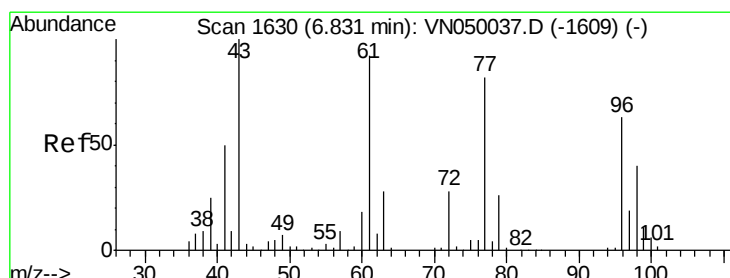
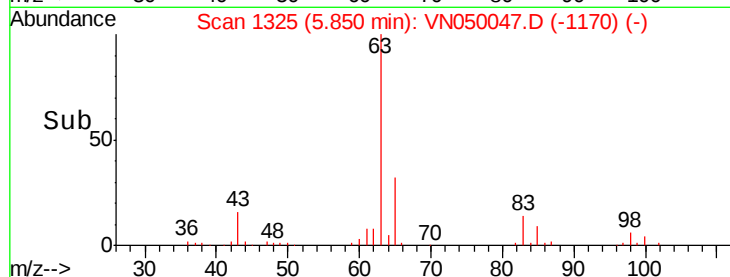
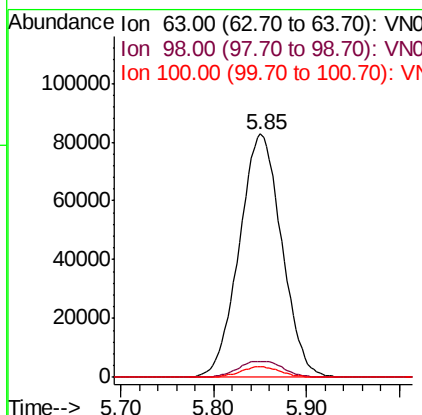
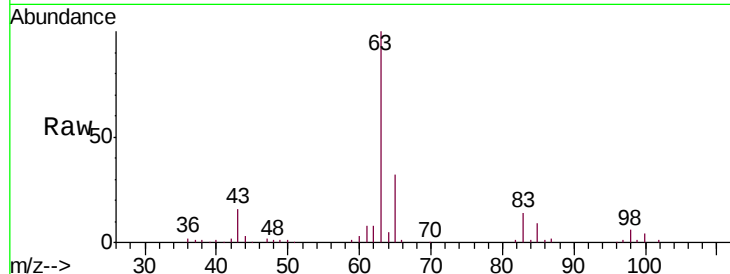
#21
 1,1-Dichloroethane
 Concen: 19.39 ug/l
 RT: 5.85 min Scan# 1325
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
63	100		
98	6.4	3.5	10.6
100	4.4	2.3	6.8

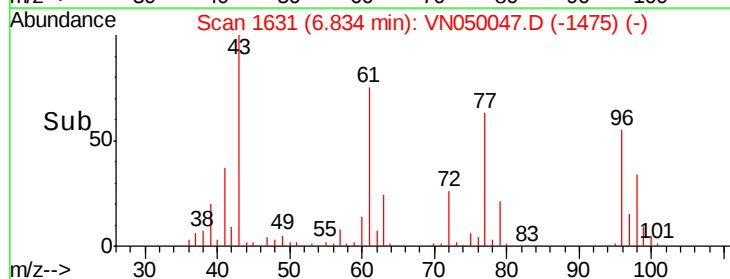
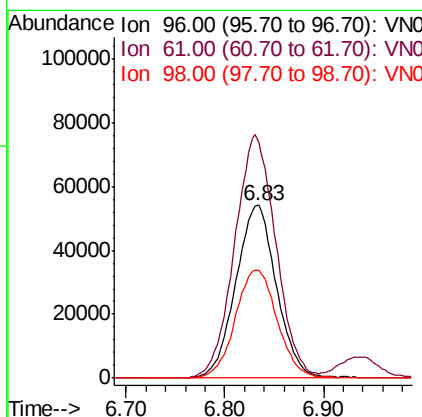
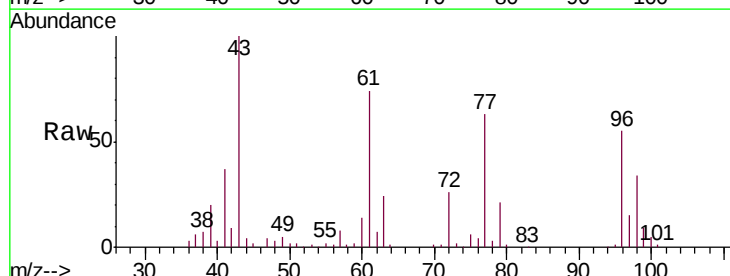
Manual Integrations
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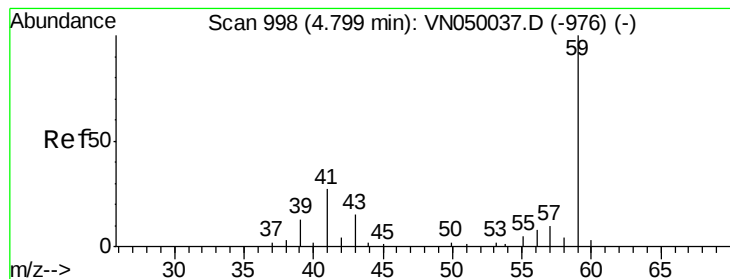
MMDadoda
 7/26/2018 3:54:37 PM



#22
 cis-1,2-Dichloroethene
 Concen: 19.57 ug/l
 RT: 6.83 min Scan# 1631
 Delta R.T. 0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
96	100		
61	142.8	114.2	171.2
98	64.5	51.7	77.5





#23

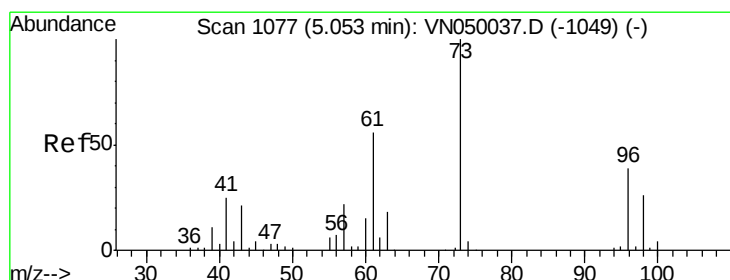
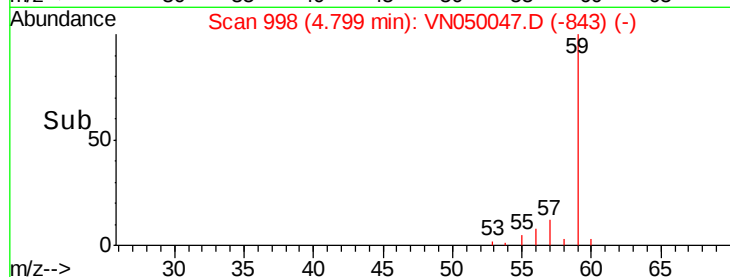
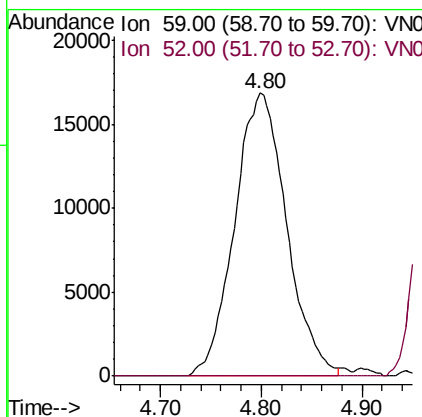
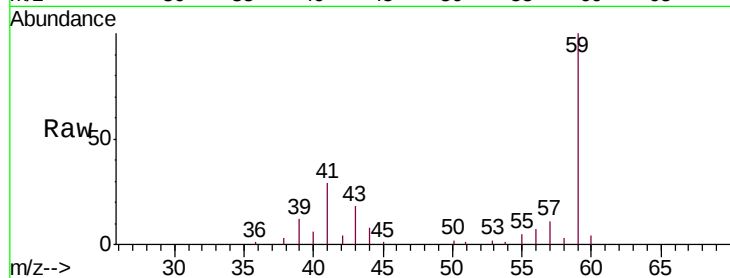
tert-Butyl Alcohol
 Concen: 105.88 ug/l
 RT: 4.80 min Scan# 998
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	59	52
Resp	60312	
Ratio	100	0.0
Lower		0.1
Upper		0.1#

Manual Integrations
 APPROVED

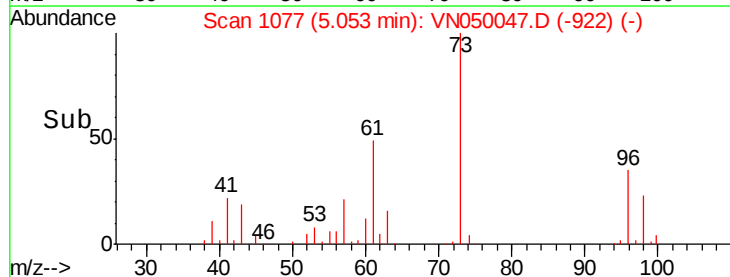
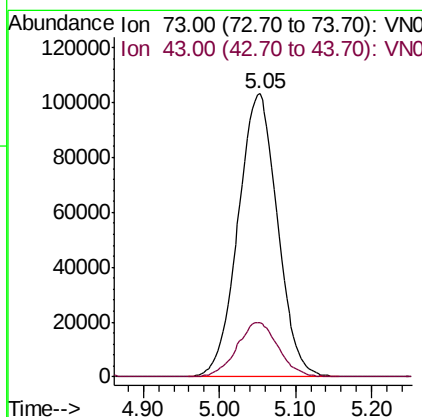
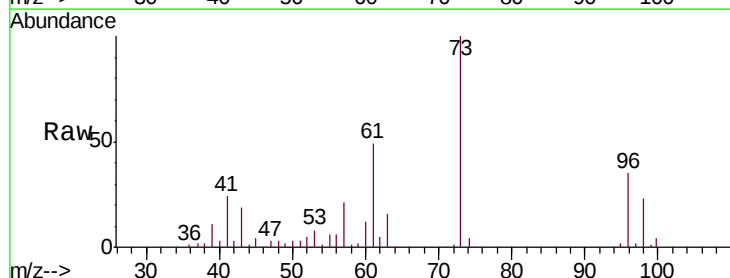
MMDadoda
 7/26/2018 3:54:37 PM

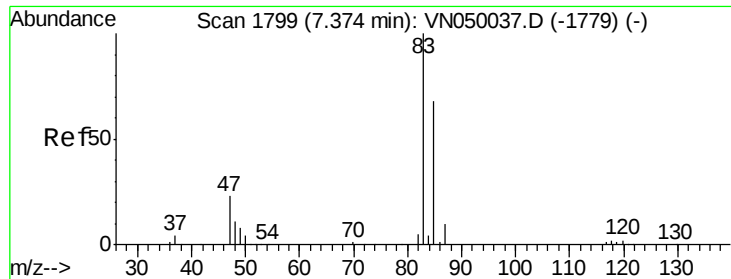


#24

Methyl tert-Butyl Ether
 Concen: 20.46 ug/l
 RT: 5.05 min Scan# 1077
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Tgt Ion	73	43
Resp	371770	
Ratio	100	19.6
Lower		15.5
Upper		23.3





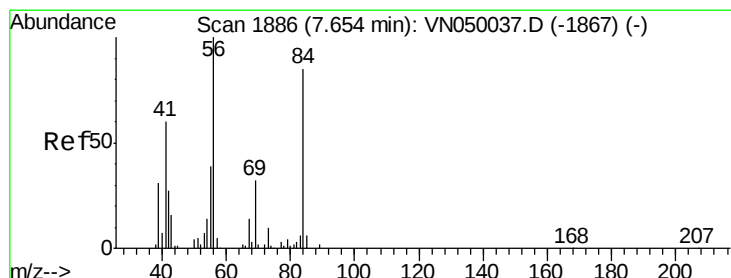
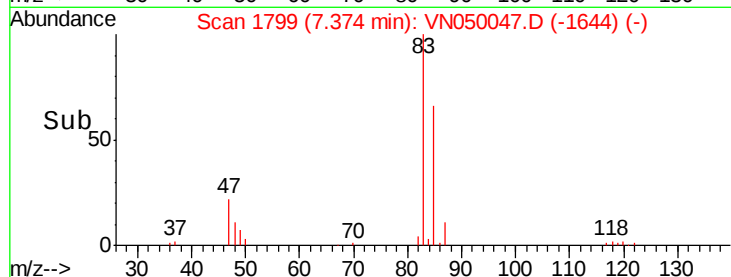
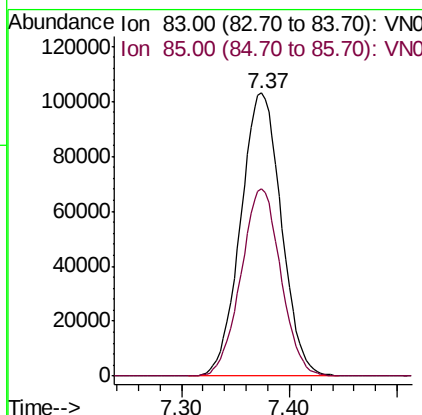
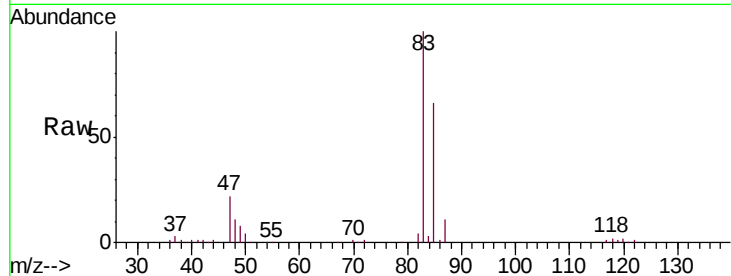
#25
Chloroform
Concen: 19.69 ug/l
RT: 7.37 min Scan# 1799
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	83	Resp	270484
Ion Ratio	100	Lower	Upper
83	100		
85	66.2	52.1	78.1

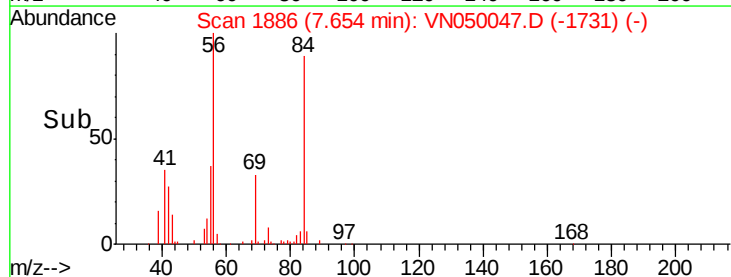
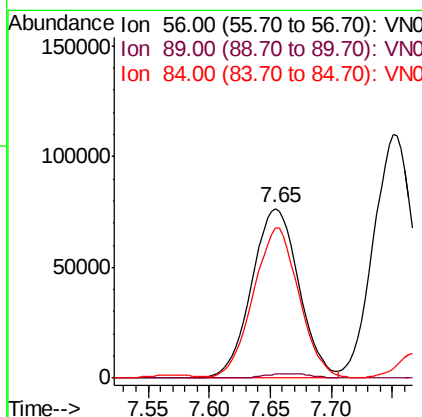
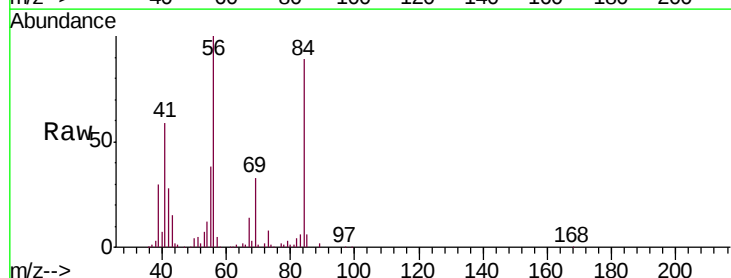
Manual Integrations
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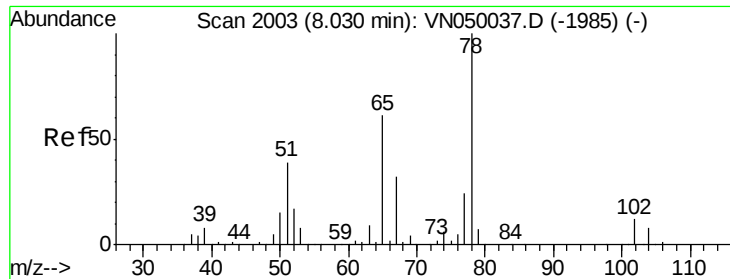
MMDadoda
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#26
Cyclohexane
Concen: 19.11 ug/l
RT: 7.65 min Scan# 1886
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	56	Resp	206078
Ion Ratio	100	Lower	Upper
56	100		
89	2.5	3.0	4.4#
84	85.4	69.8	104.8





#27

1,2-Dichloroethane-d4

Concen: 30.61 ug/l

RT: 8.03 min Scan# 2003

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Tot Ion: 65 Resp: 260065

Ion Ratio Lower Upper

65 100

67 54.3 42.7 64.1

Instrument :

MSVOA_N

ClientSampleId :

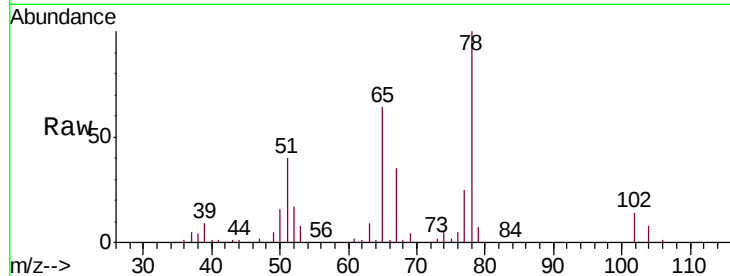
VSTDCCC020EC

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Abundance Ion 65.00 (64.70 to 65.70): VN050037.D (-1985) (-)

Ion 67.00 (66.70 to 67.70): VN050037.D (-1985) (-)

8.03

120000

100000

80000

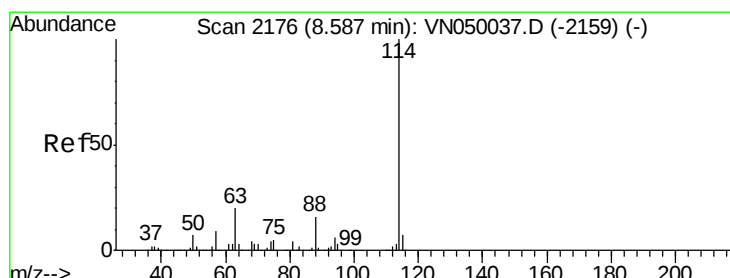
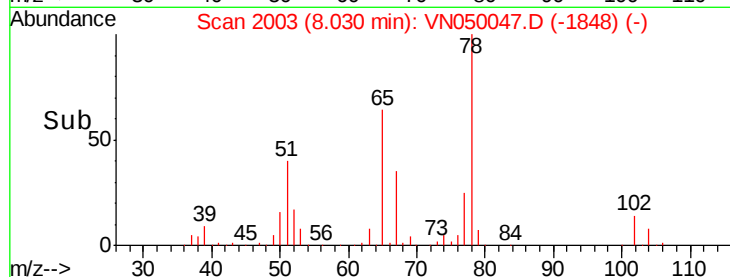
60000

40000

20000

0

Time-->



#28

1,4-Difluorobenzene

Concen: 30.00 ug/l

RT: 8.59 min Scan# 2176

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

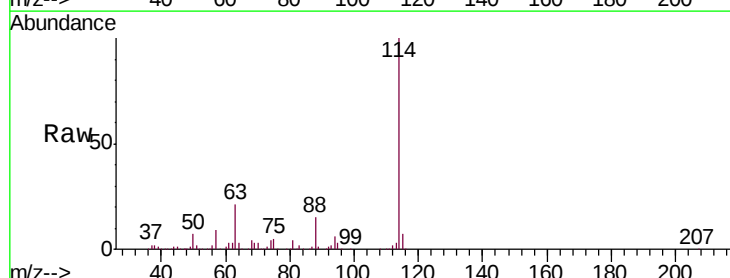
Tgt Ion: 114 Resp: 649457

Ion Ratio Lower Upper

114 100

63 20.2 16.2 24.2

88 15.3 12.3 18.5



Abundance Ion 114.00 (113.70 to 114.70): VN050037.D (-2159) (-)

Ion 63.00 (62.70 to 63.70): VN050037.D (-2159) (-)

Ion 88.00 (87.70 to 88.70): VN050037.D (-2159) (-)

8.59

400000

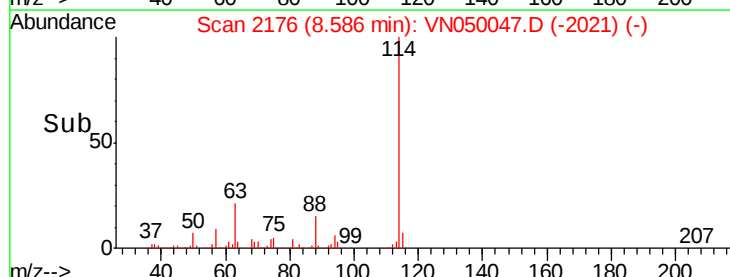
300000

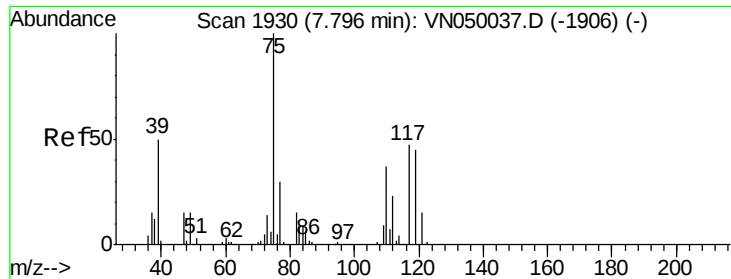
200000

100000

0

Time-->





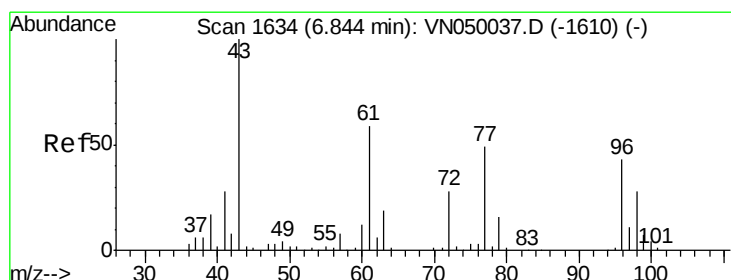
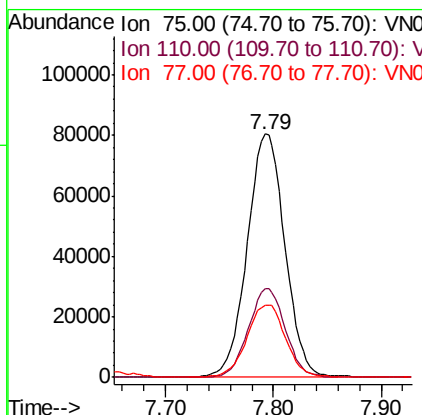
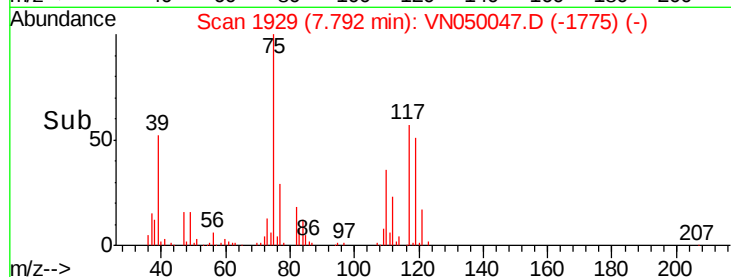
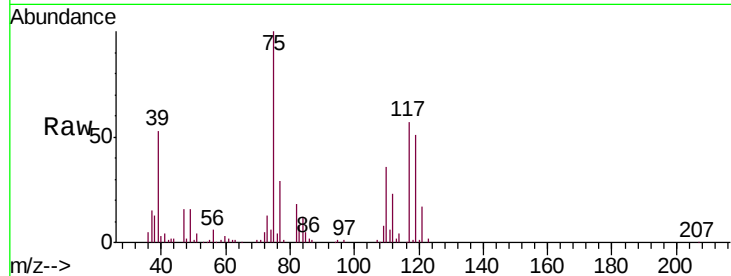
#29
 1,1-Dichloropropene
 Concen: 19.36 ug/l
 RT: 7.79 min Scan# 1929
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
110	35.6	0.0	73.2
77	30.7	0.0	62.0

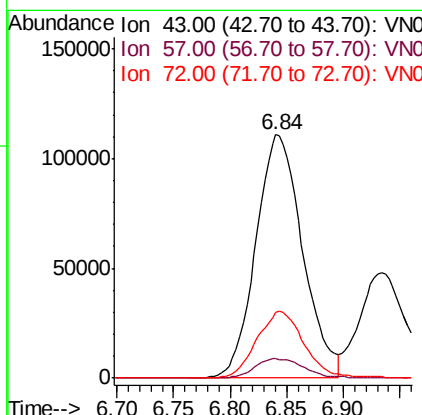
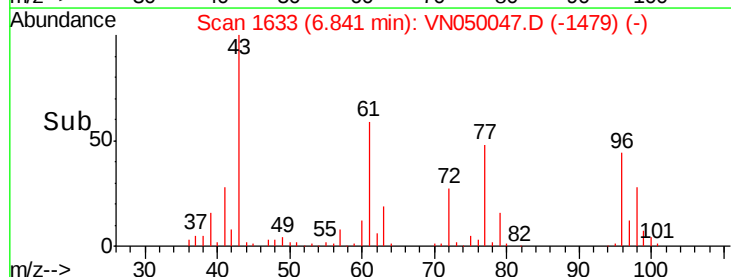
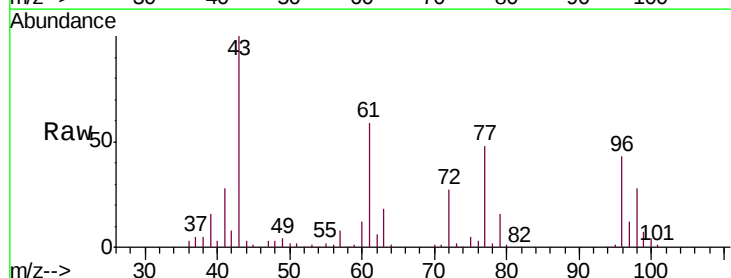
Manual Integrations
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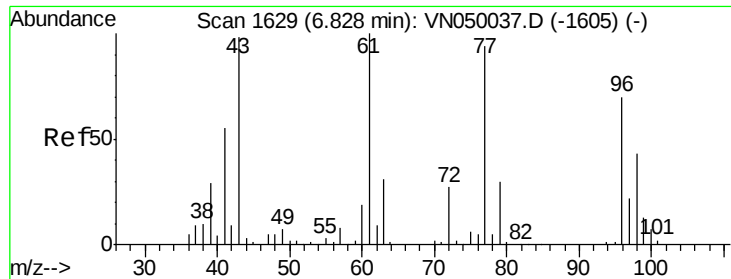
MMDadoda
 7/26/2018 3:54:37 PM



#30
 2-Butanone
 Concen: 100.10 ug/l
 RT: 6.84 min Scan# 1633
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
43	100		
57	8.4	6.8	10.2
72	27.7	21.4	32.0





#31

2,2-Dichloropropane

Concen: 19.28 ug/l

RT: 6.82 min Scan# 1628

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 77 Resp: 214756

Ion Ratio Lower Upper

77 100

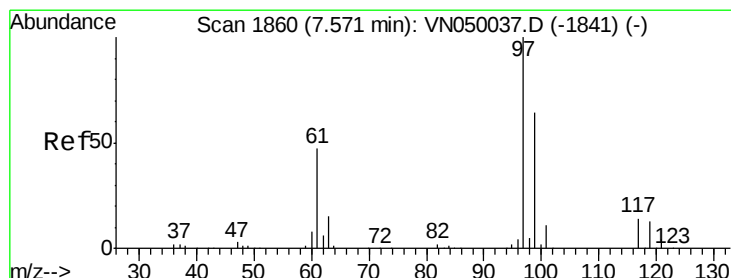
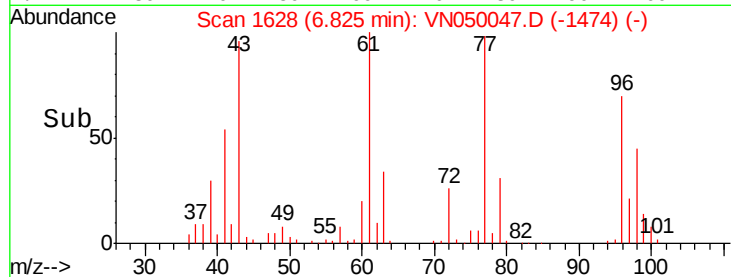
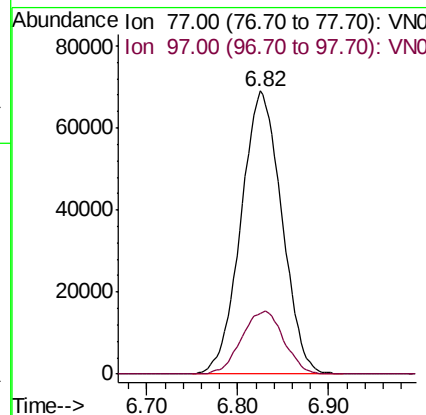
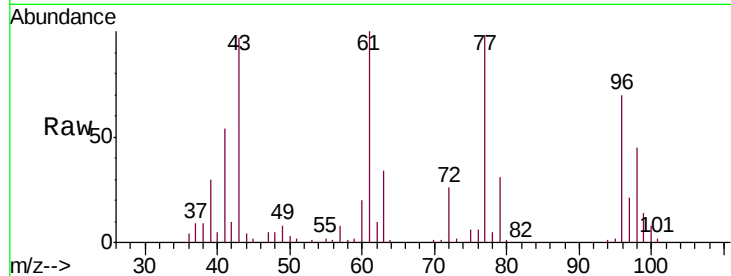
97 23.1 18.9 28.3

Manual Integrations

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#32

1,1,1-Trichloroethane

Concen: 19.04 ug/l

RT: 7.57 min Scan# 1860

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

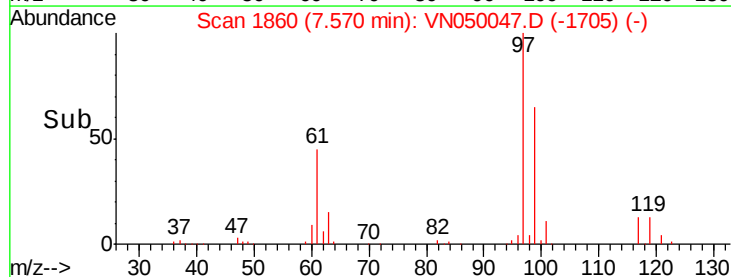
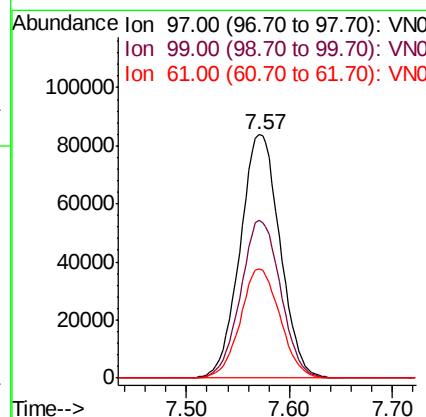
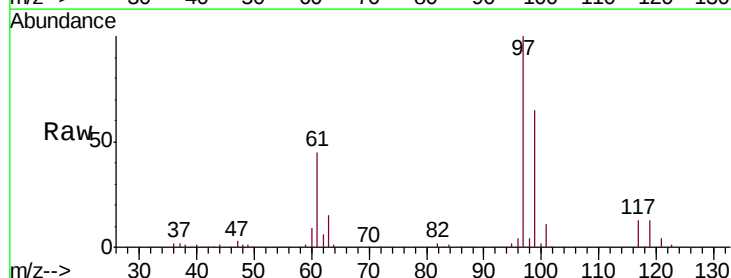
Tgt Ion: 97 Resp: 225845

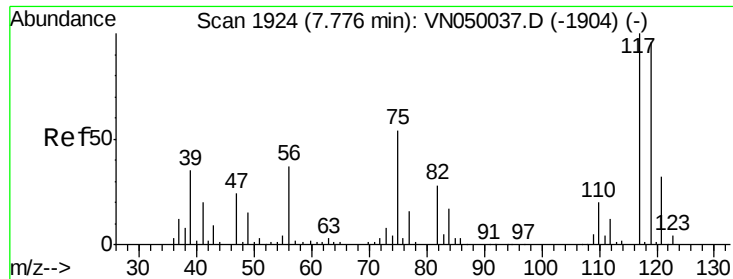
Ion Ratio Lower Upper

97 100

99 64.9 51.2 76.8

61 44.4 35.3 52.9





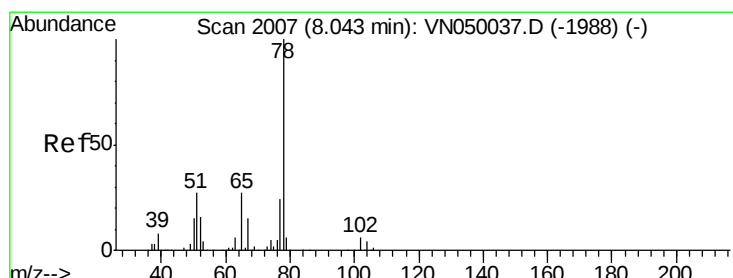
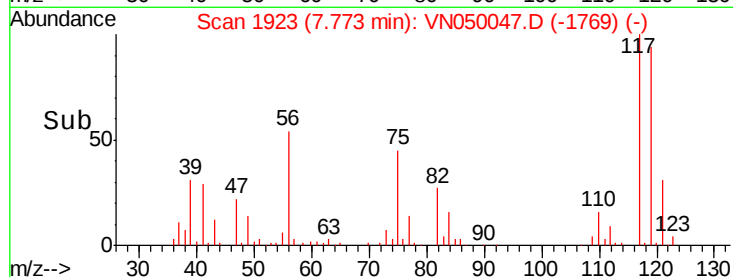
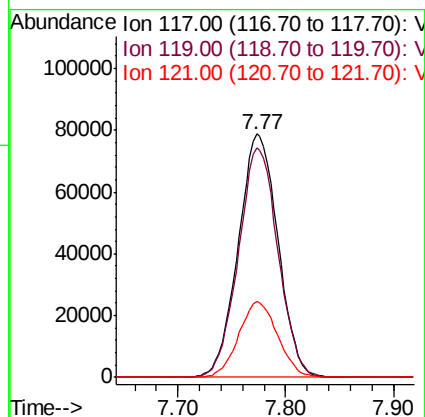
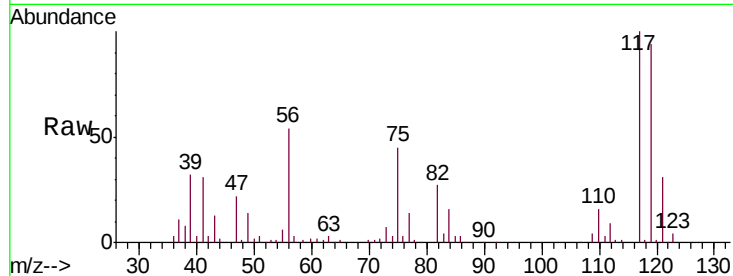
#33
Carbon Tetrachloride
Concen: 19.05 ug/l
RT: 7.77 min Scan# 1923
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
117	100		
119	94.3	76.9	115.3
121	31.2	24.4	36.6

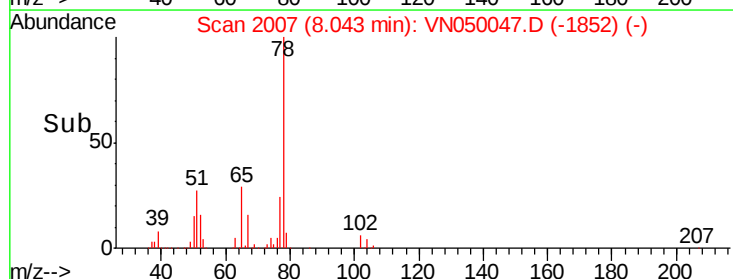
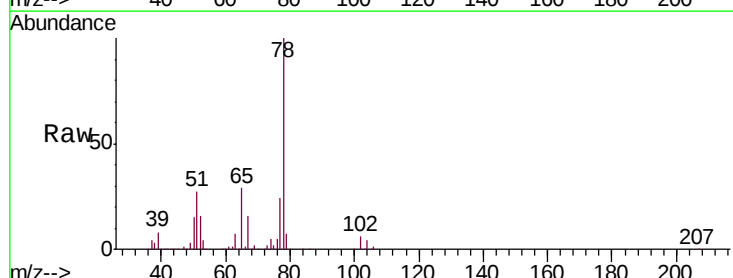
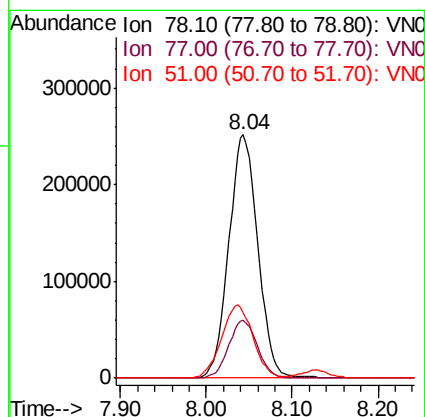
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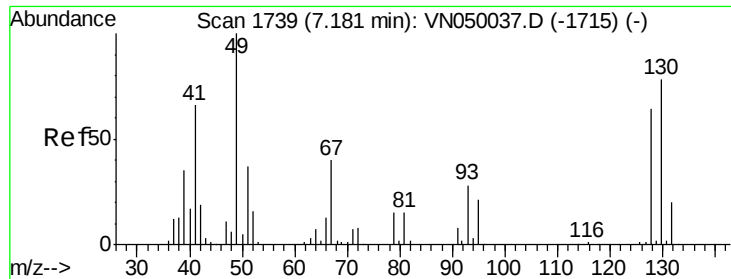
MMDadoda
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#34
Benzene
Concen: 19.27 ug/l
RT: 8.04 min Scan# 2007
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
78	100		
77	23.6	19.1	28.7
51	26.8	21.0	31.4





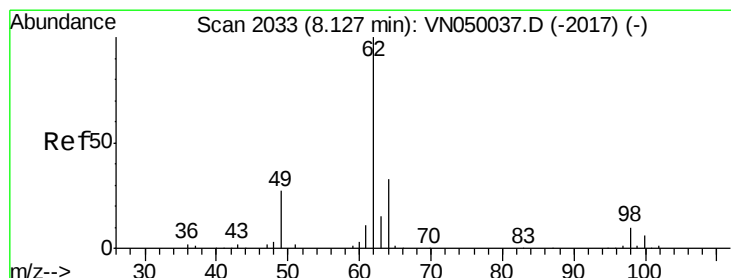
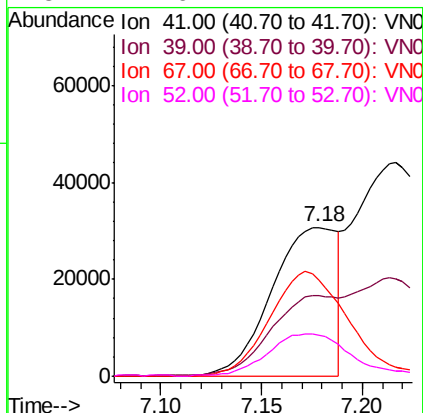
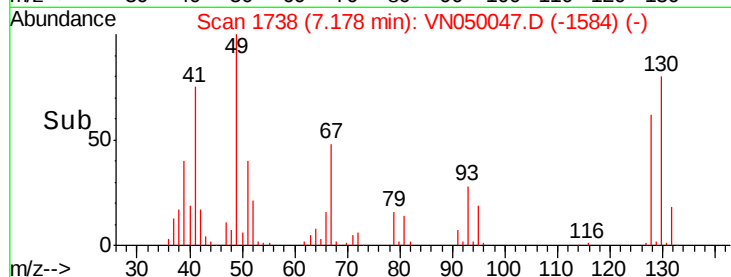
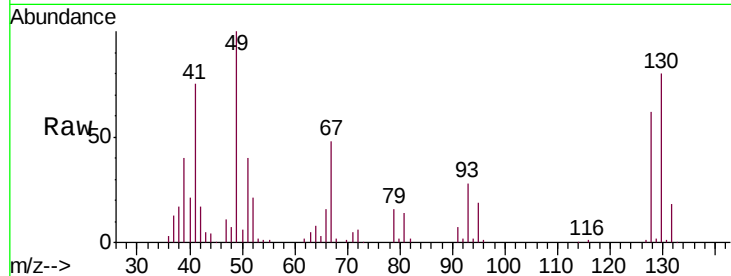
#35
Methacrylonitrile
Concen: 19.17 ug/l
RT: 7.18 min Scan# 1738
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ion	Ratio	Lower	Upper
41	100			
39	53.2	27.6	82.7	
67	64.4	35.1	105.5	
52	27.6	14.1	42.4	

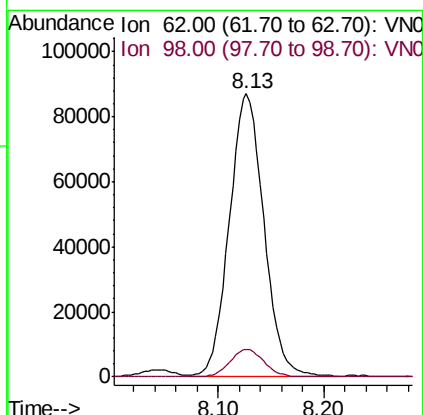
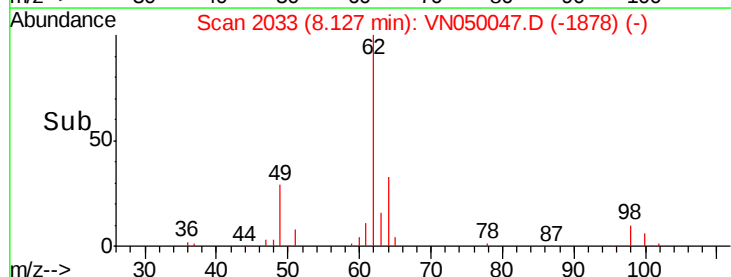
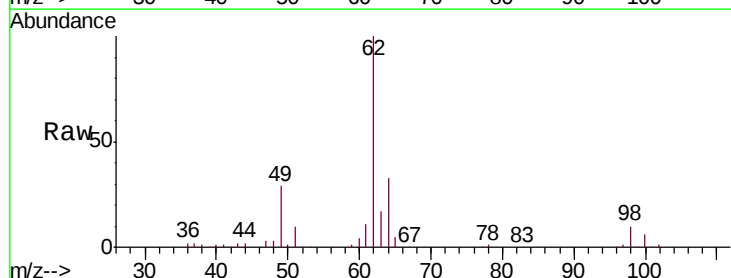
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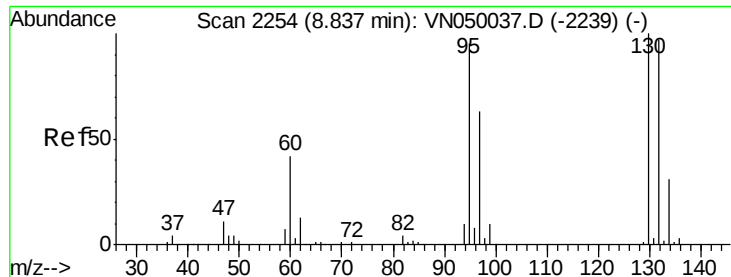
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#36
1,2-Dichloroethane
Concen: 19.65 ug/l
RT: 8.13 min Scan# 2033
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ion	Ratio	Lower	Upper
62	100			
98	9.6	7.8	11.6	





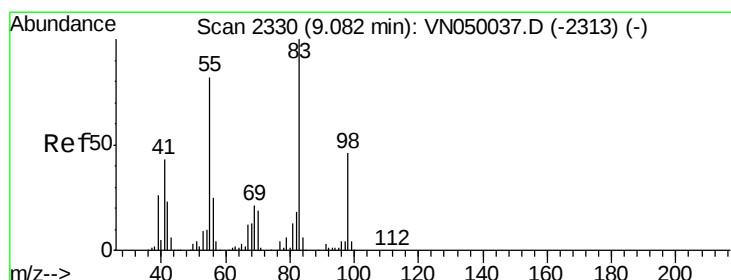
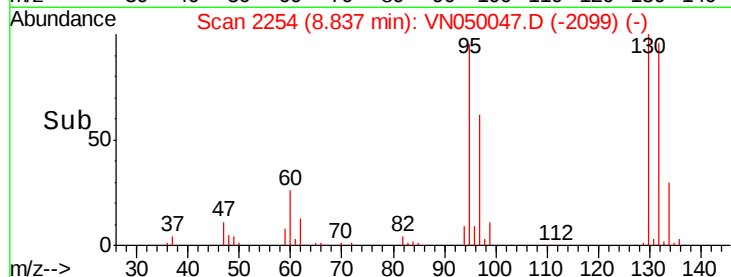
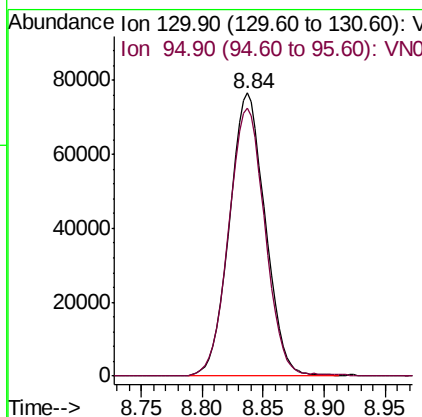
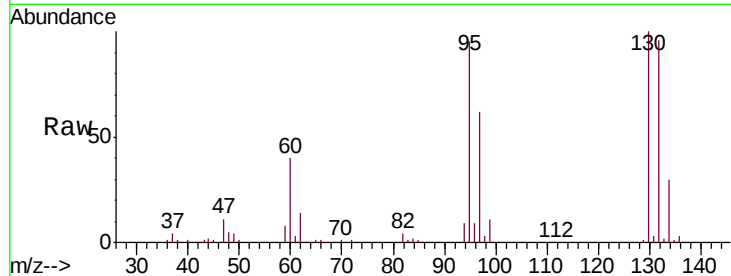
#37
 Trichloroethene
 Concen: 19.45 ug/l
 RT: 8.84 min Scan# 2254
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion:130 Resp: 156126
 Ion Ratio Lower Upper
 130 100
 95 94.6 79.7 119.5

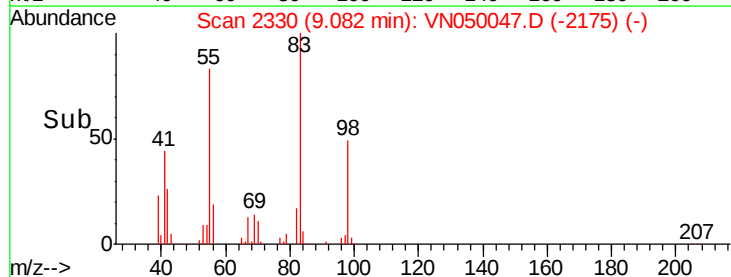
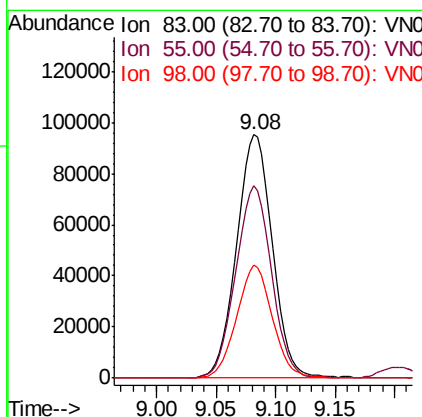
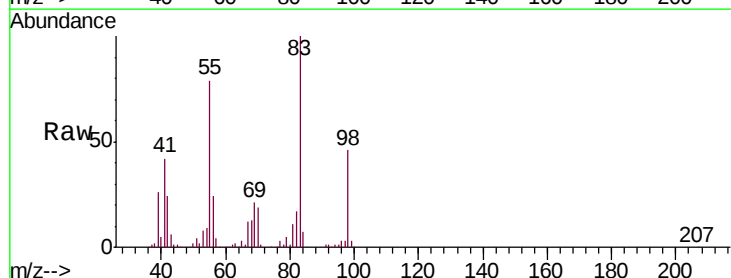
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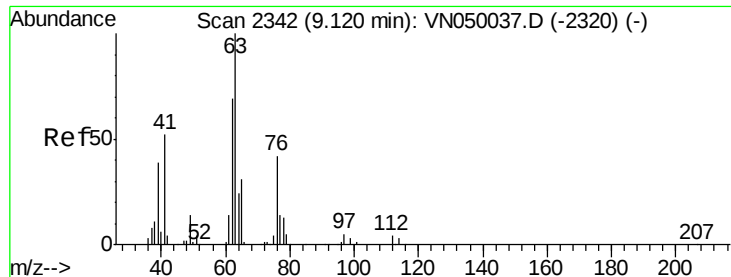
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#38
 Methylcyclohexane
 Concen: 18.72 ug/l
 RT: 9.08 min Scan# 2330
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Tgt Ion: 83 Resp: 198931
 Ion Ratio Lower Upper
 83 100
 55 79.3 39.3 117.8
 98 46.4 23.0 69.0





#39

1,2-Dichloropropane

Concen: 19.61 ug/l

RT: 9.12 min Scan# 2342

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 63 Resp: 158157

Ion Ratio Lower Upper

63 100

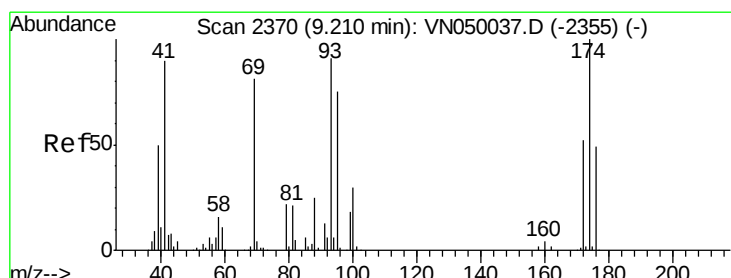
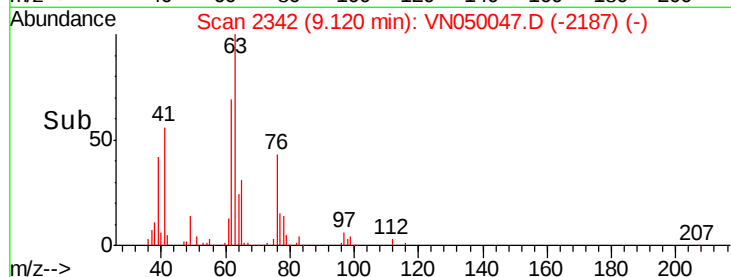
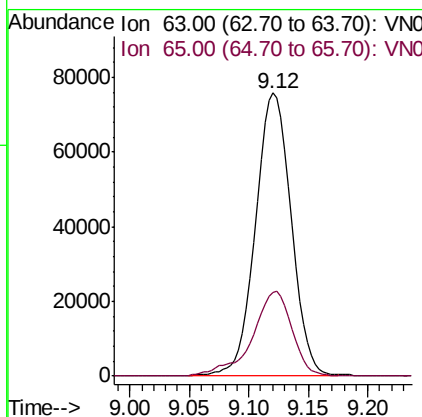
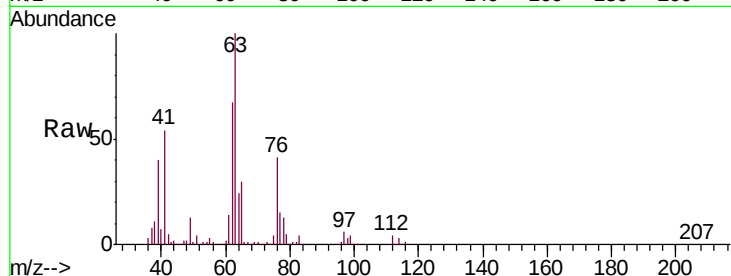
65 29.8 24.2 36.2

Manual Integrations

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#40

Dibromomethane

Concen: 19.77 ug/l

RT: 9.21 min Scan# 2370

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

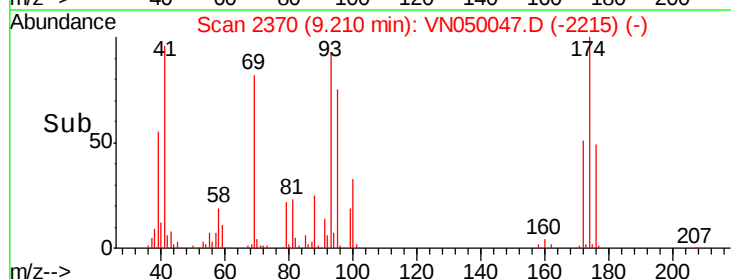
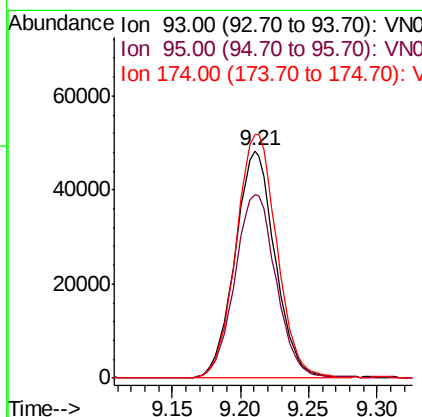
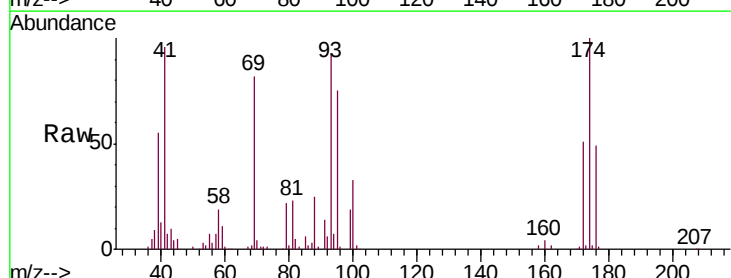
Tgt Ion: 93 Resp: 98541

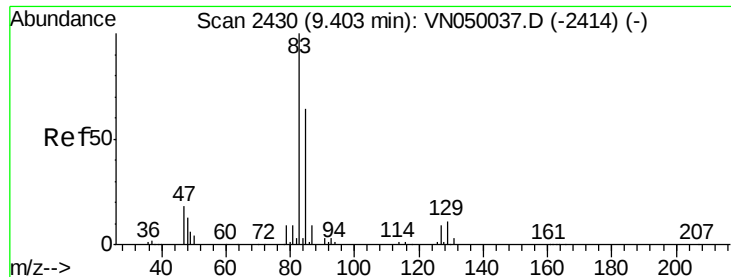
Ion Ratio Lower Upper

93 100

95 83.1 0.0 165.6

174 108.9 0.0 223.2





#41

Bromodichloromethane

Concen: 19.30 ug/l

RT: 9.40 min Scan# 2430

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

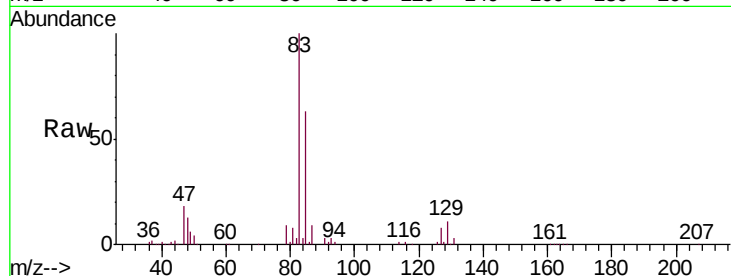
ClientSampleId :

VSTDCCC020EC

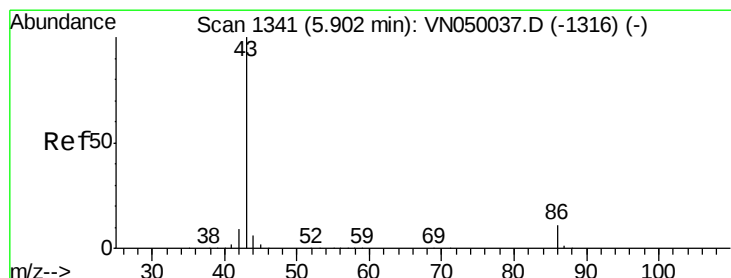
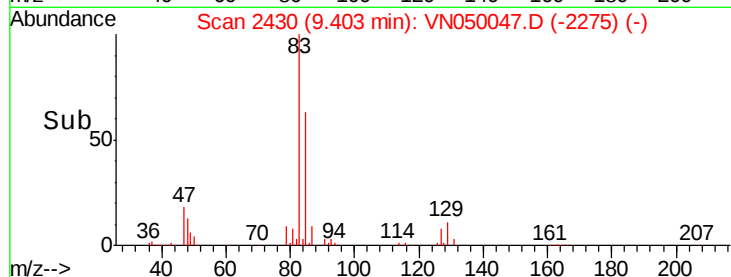
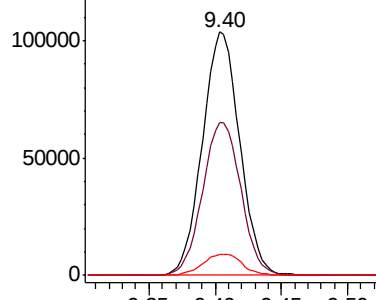
Tot Ion:	83	Resp:	202846
Ion Ratio	Lower	Upper	
83	100		
85	62.8	52.6	78.8
127	8.5	7.0	10.4

Manual Integrations
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Abundance Ion 83.00 (82.70 to 83.70): VNO
Ion 85.00 (84.70 to 85.70): VNO
Ion 127.00 (126.70 to 127.70): VNO



#42

Vinyl Acetate

Concen: 98.63 ug/l

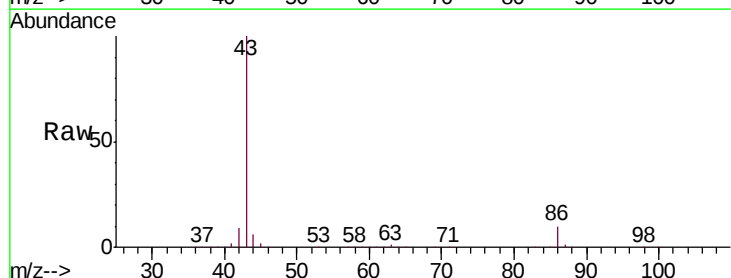
RT: 5.90 min Scan# 1341

Delta R.T. -0.00 min

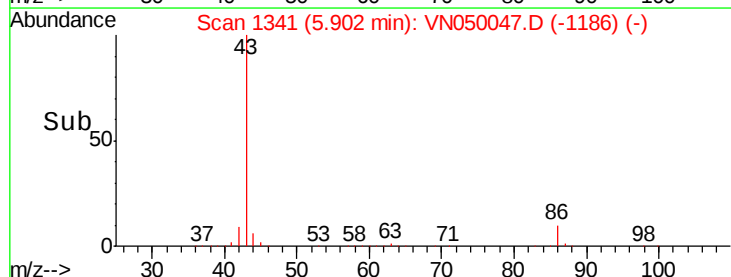
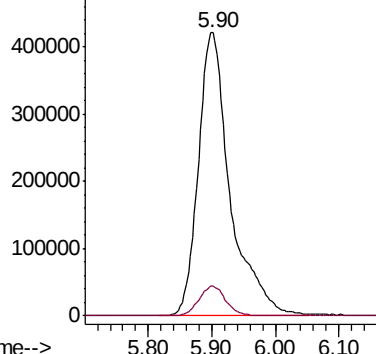
Lab File: VN050047.D

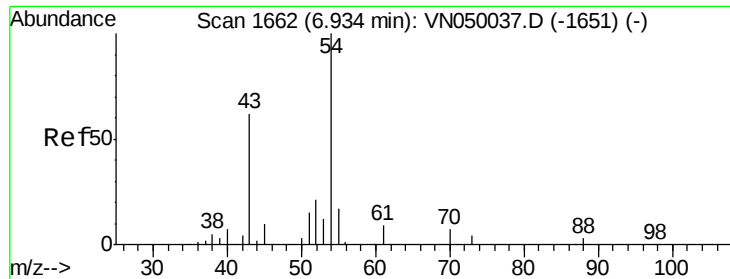
Acq: 25 Jul 2018 15:56

Tgt Ion:	43	Resp:	1467915
Ion Ratio	Lower	Upper	
43	100		
86	8.8	7.3	10.9



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





#43

Ethyl Acetate

Concen: 19.50 ug/l

RT: 6.93 min Scan# 1662

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 43 Resp: 128816

Ion Ratio Lower Upper

43 100

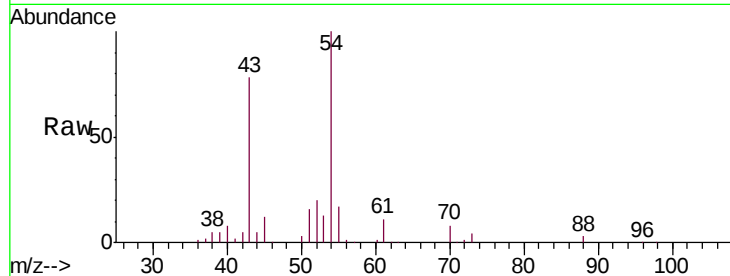
45 13.7 13.0 19.6

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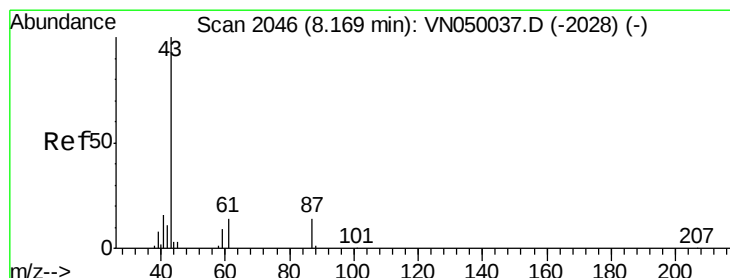
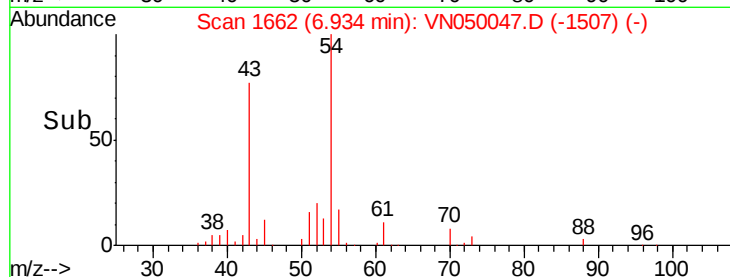
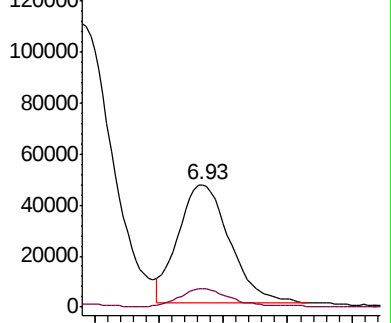
MMDadoda

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Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 45.00 (44.70 to 45.70): VN0



#44

Isopropyl Acetate

Concen: 20.90 ug/l

RT: 8.17 min Scan# 2046

Delta R.T. -0.00 min

Lab File: VN050047.D

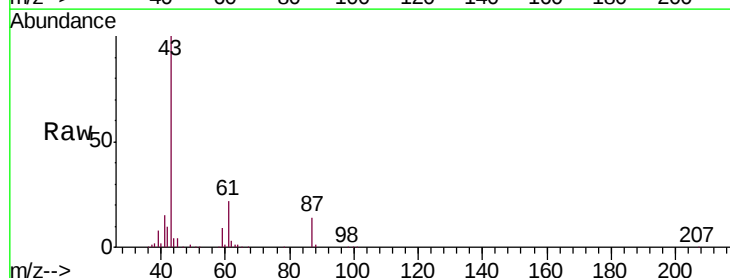
Acq: 25 Jul 2018 15:56

Tgt Ion: 43 Resp: 255699

Ion Ratio Lower Upper

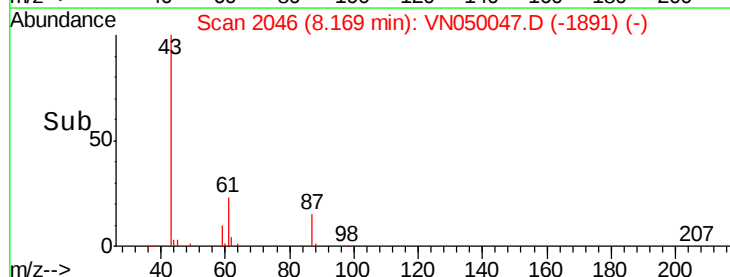
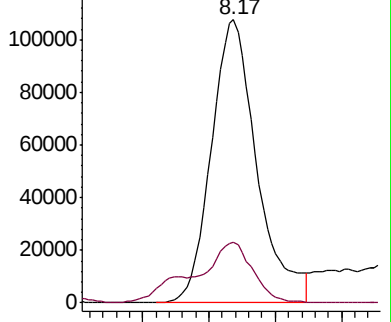
43 100

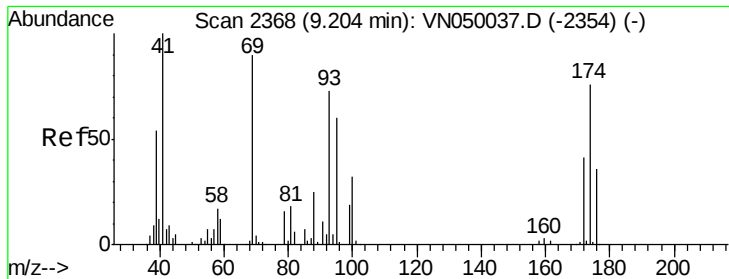
61 18.0 16.4 24.6



Abundance Ion 43.00 (42.70 to 43.70): VN0

Ion 61.00 (60.70 to 61.70): VN0





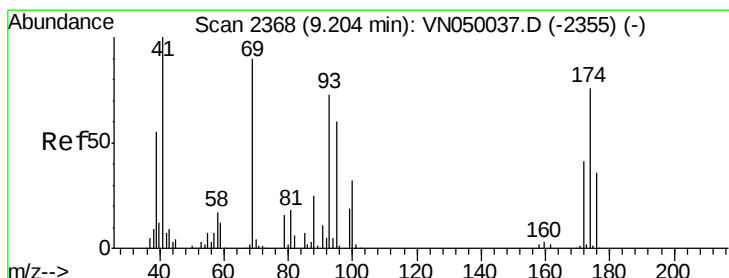
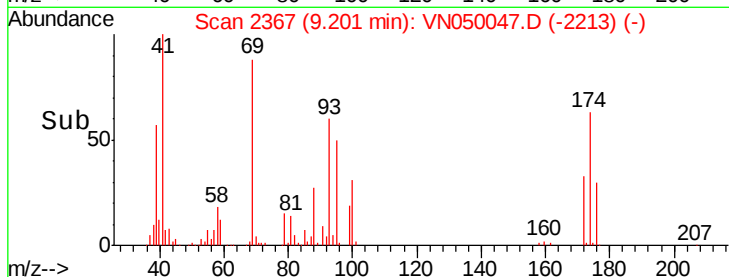
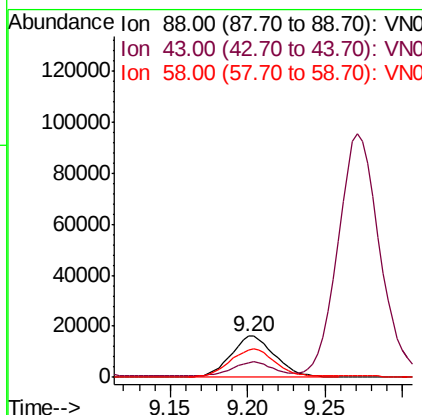
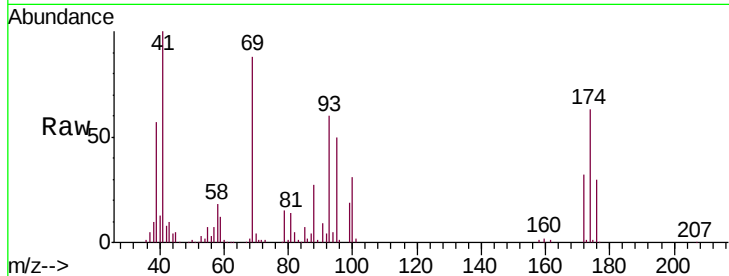
#45
 1,4-Dioxane
 Concen: 399.18 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
88	100		
43	31.7	26.9	40.3
58	71.9	53.6	80.4

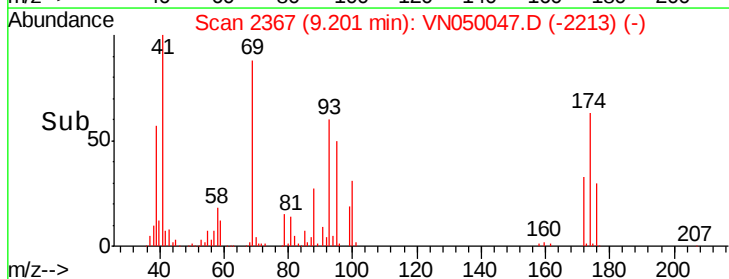
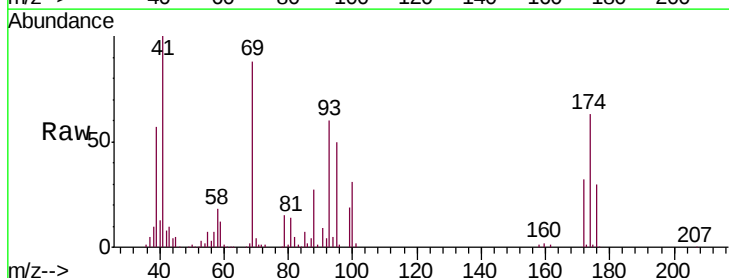
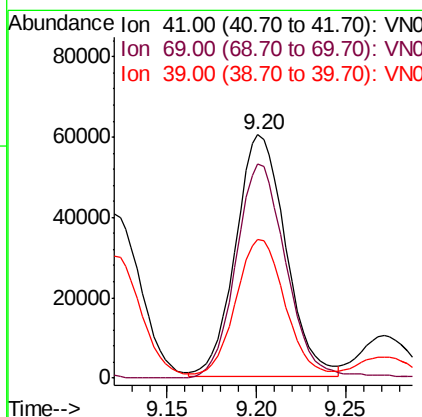
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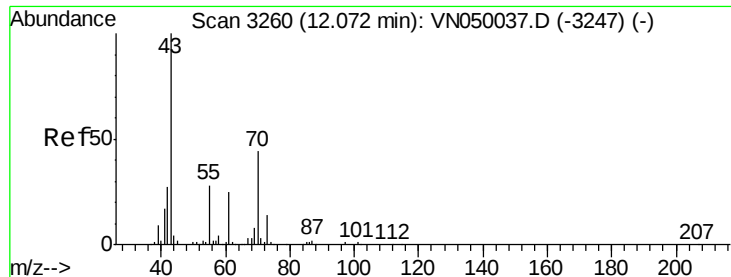
MMDadoda
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#46
 Methyl methacrylate
 Concen: 19.94 ug/l
 RT: 9.20 min Scan# 2367
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
41	100		
69	89.1	44.0	132.1
39	56.7	27.0	80.8





#47

n-amyl Acetate

Concen: 18.06 ug/l

RT: 12.07 min Scan# 3260

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 43 Resp: 171962

Ion Ratio Lower Upper

43 100

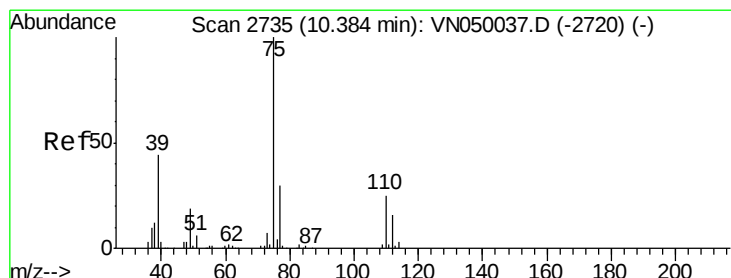
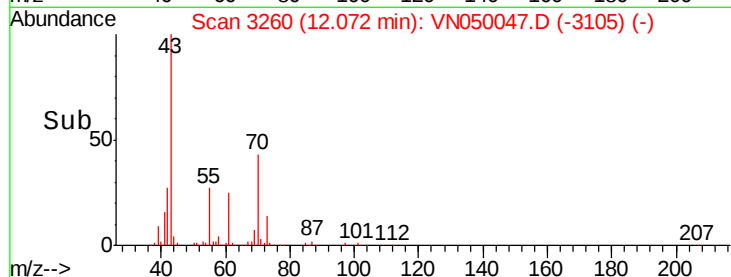
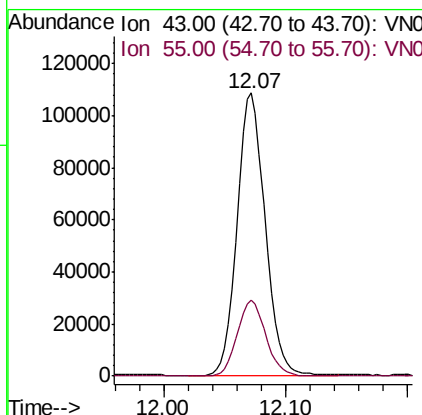
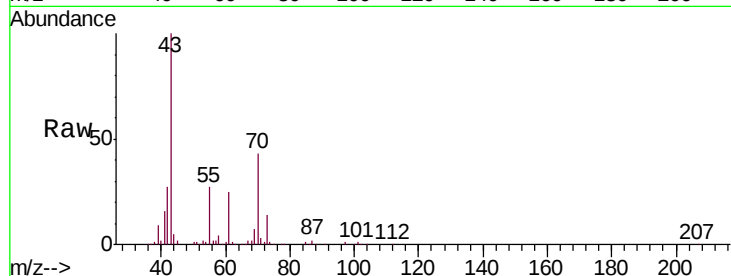
55 27.2 21.0 31.4

Manual Integrations

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#48

t-1,3-Dichloropropene

Concen: 18.77 ug/l

RT: 10.38 min Scan# 2735

Delta R.T. -0.00 min

Lab File: VN050047.D

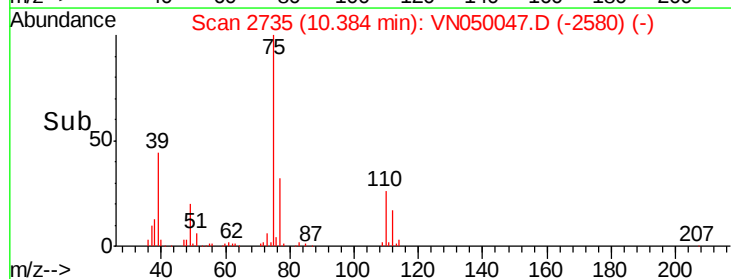
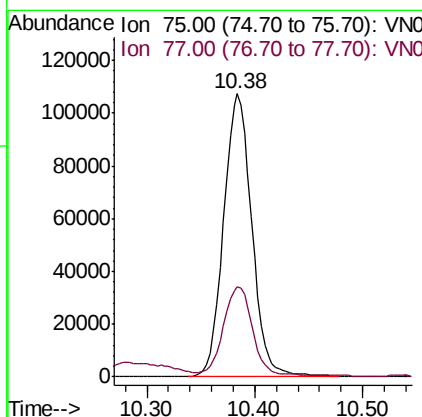
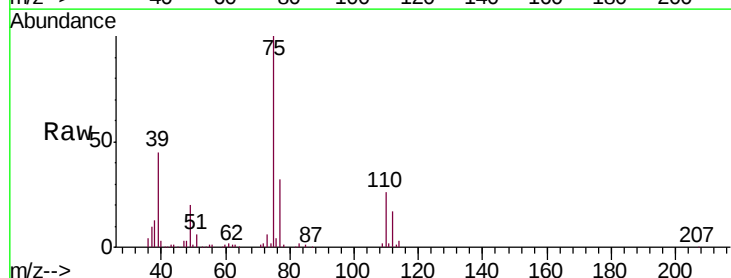
Acq: 25 Jul 2018 15:56

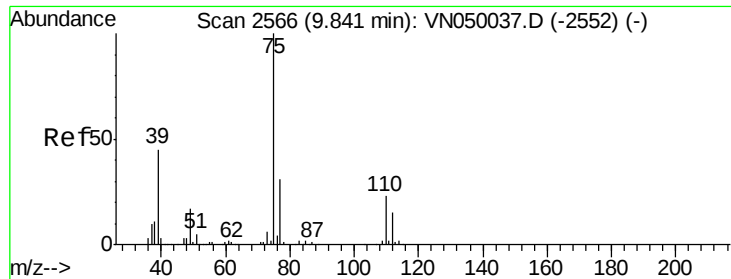
Tgt Ion: 75 Resp: 195602

Ion Ratio Lower Upper

75 100

77 31.2 24.6 37.0





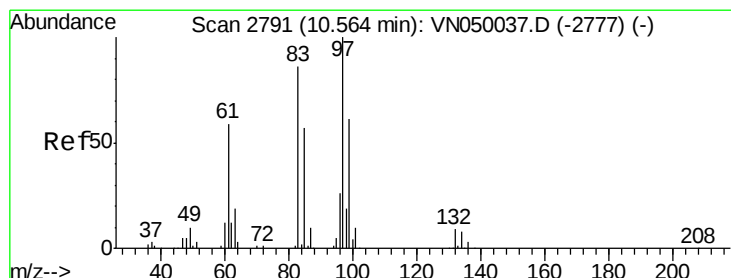
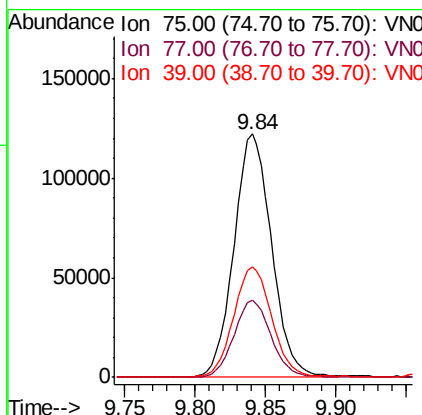
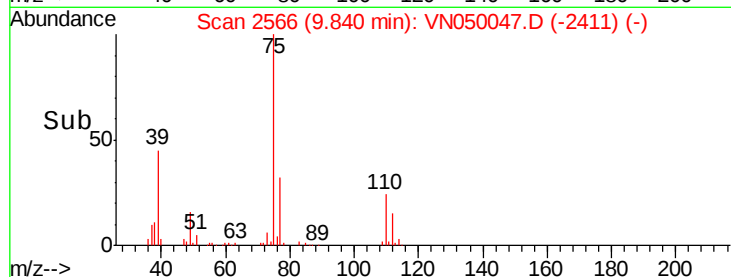
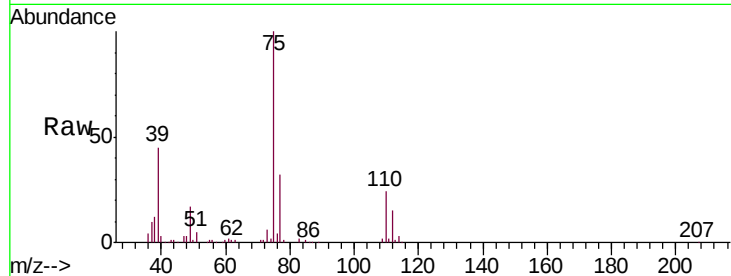
#49
 cis-1,3-Dichloropropene
 Concen: 19.42 ug/l
 RT: 9.84 min Scan# 2566
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
77	31.7	25.7	38.5
39	45.0	36.3	54.5

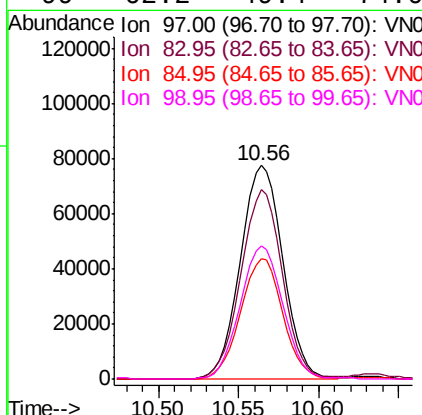
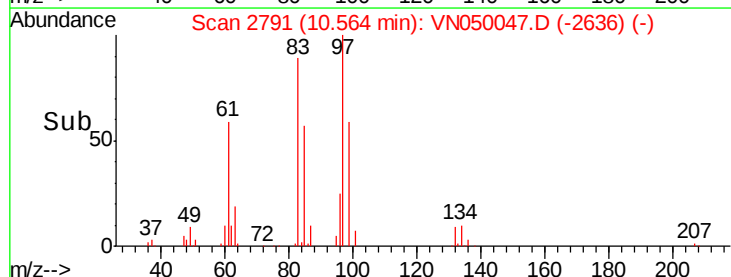
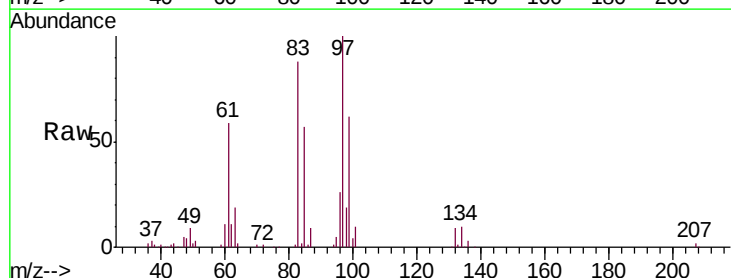
Manual Integrations
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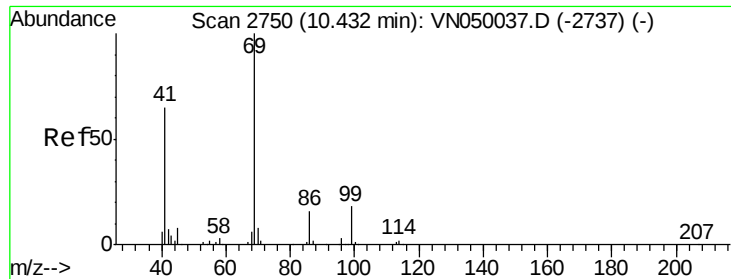
MMDadoda
 7/26/2018 3:54:37 PM



#50
 1,1,2-Trichloroethane
 Concen: 19.69 ug/l
 RT: 10.56 min Scan# 2791
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
97	100		
83	88.4	68.1	102.1
85	56.6	45.4	68.2
99	62.2	49.4	74.0





#51

Ethyl methacrylate

Concen: 18.76 ug/l

RT: 10.43 min Scan# 2750

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

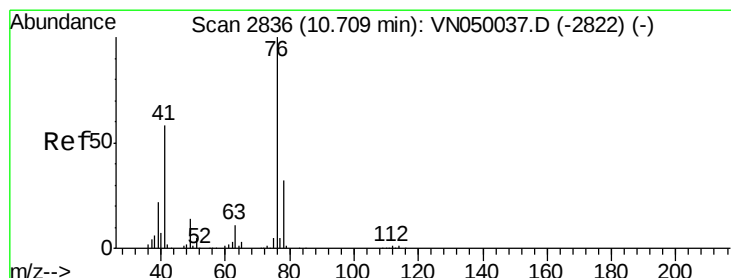
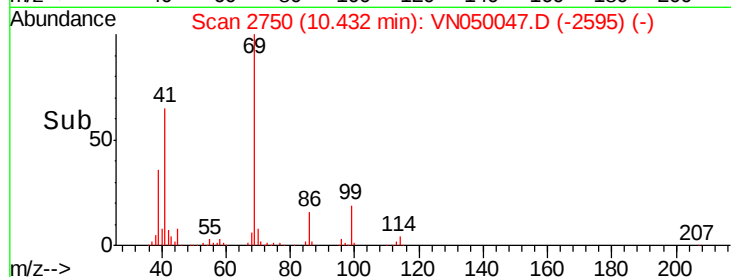
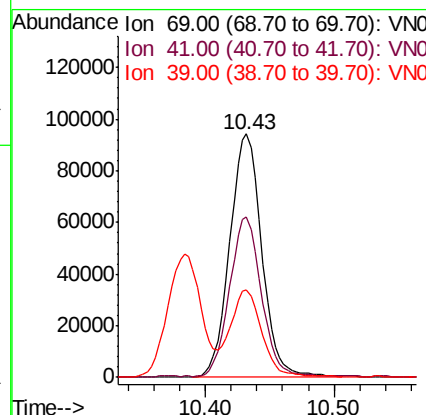
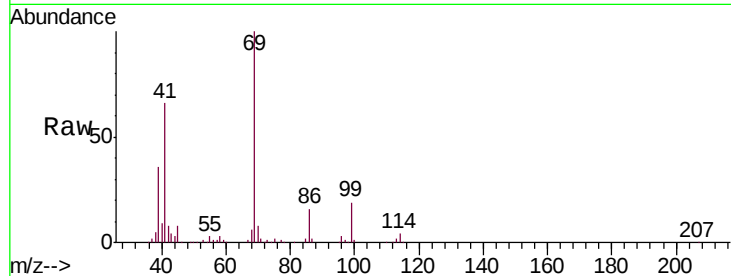
ClientSampleId :

VSTDCCC020EC

Tot Ion:	69	Resp:	162891
Ion	Ratio	Lower	Upper
69	100		
41	65.3	31.9	95.9
39	35.6	16.7	50.1

Manual Integrations
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#52

1,3-Dichloropropane

Concen: 19.66 ug/l

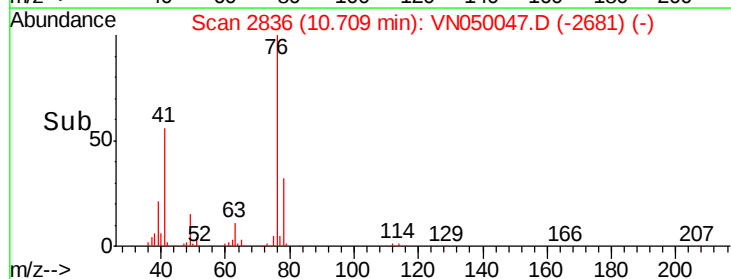
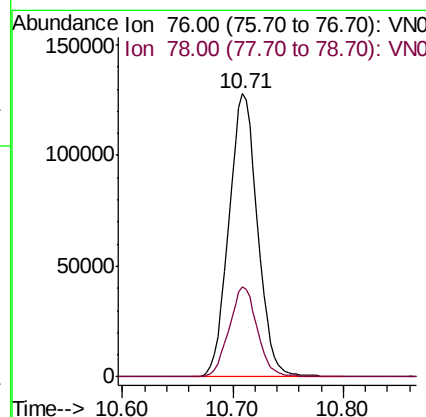
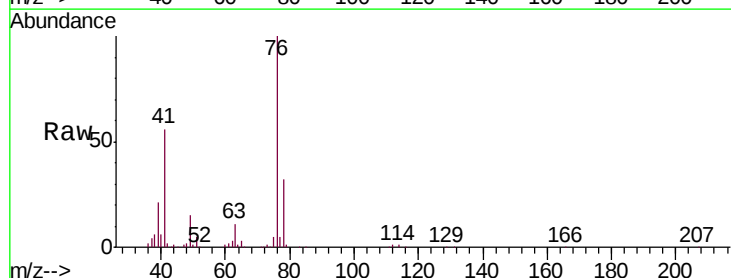
RT: 10.71 min Scan# 2836

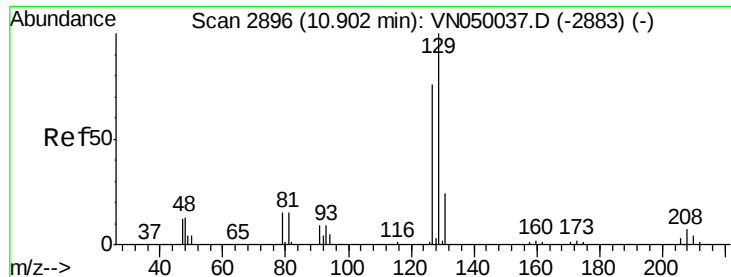
Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Tgt Ion:	76	Resp:	230943
Ion	Ratio	Lower	Upper
76	100		
78	31.2	0.0	65.6





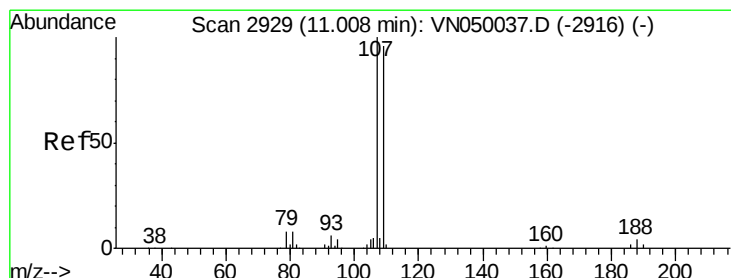
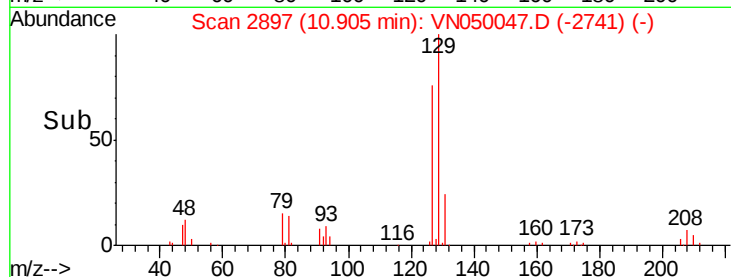
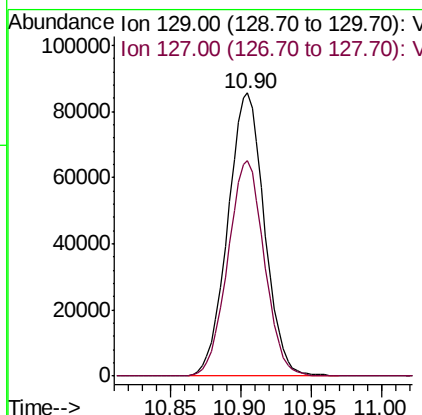
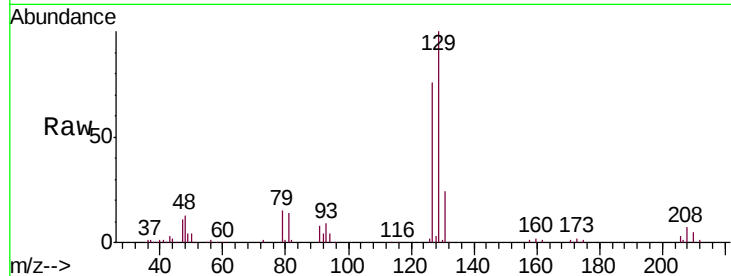
#53
 Dibromochloromethane
 Concen: 19.13 ug/l
 RT: 10.90 min Scan# 2897
 Delta R.T. 0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
129	100		
127	75.8	38.1	114.5

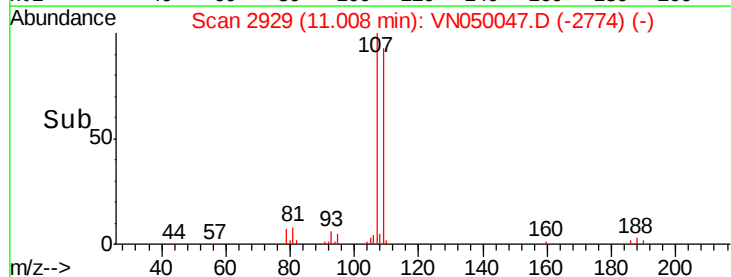
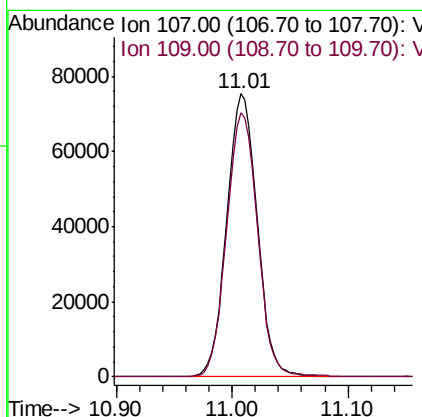
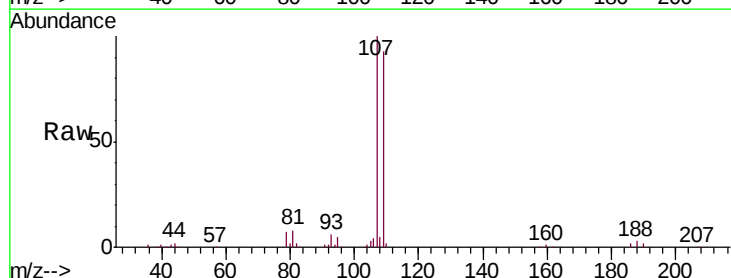
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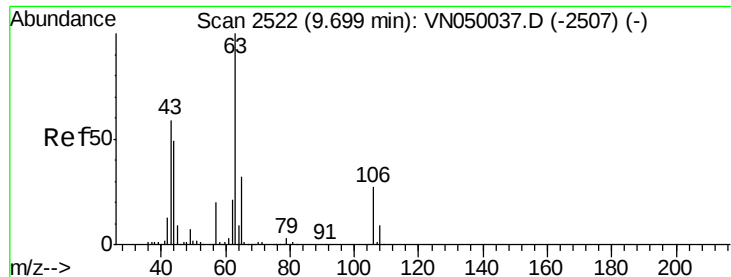
MMDadoda
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#54
 1,2-Dibromoethane
 Concen: 19.49 ug/l
 RT: 11.01 min Scan# 2929
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
107	100		
109	94.7	76.2	114.2





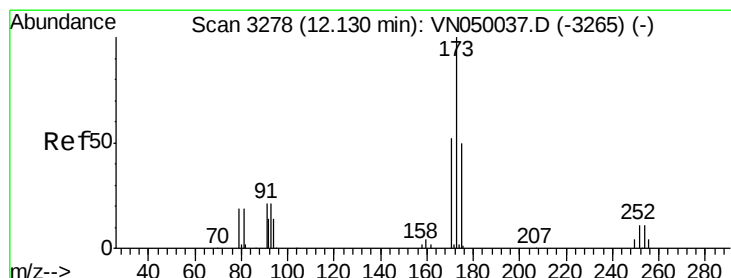
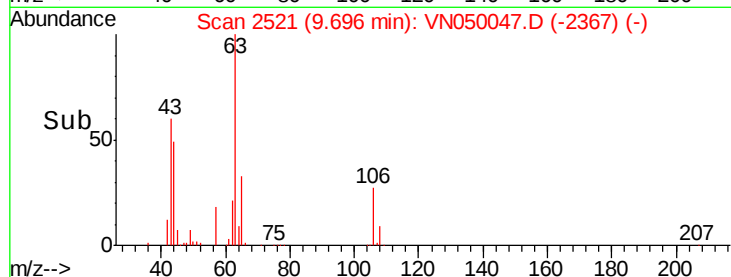
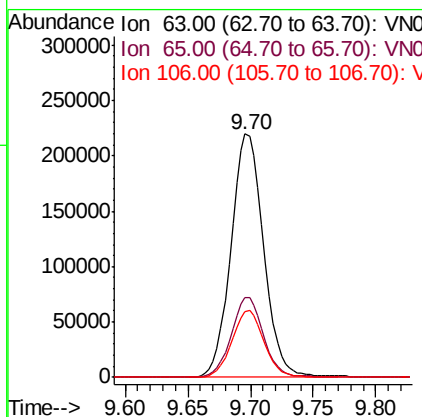
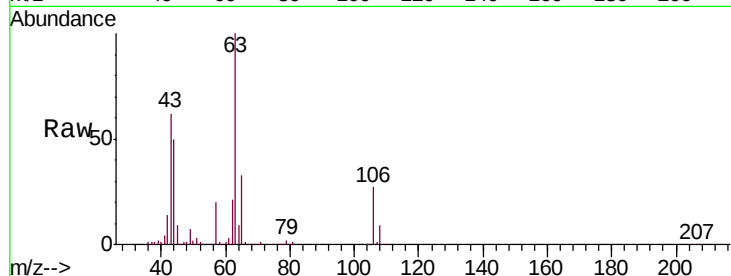
#55
2-Chloroethyl vinyl ether
Concen: 101.20 ug/l
RT: 9.70 min Scan# 2521
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
63	100		
65	32.3	25.5	38.3
106	27.0	21.8	32.6

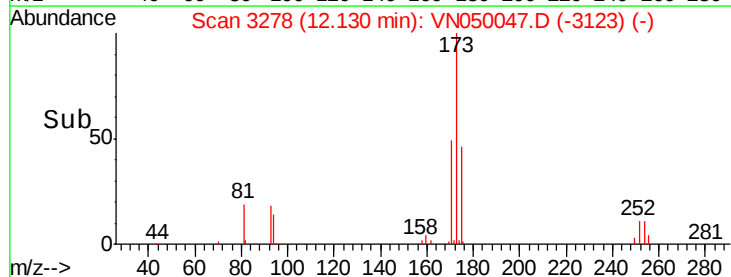
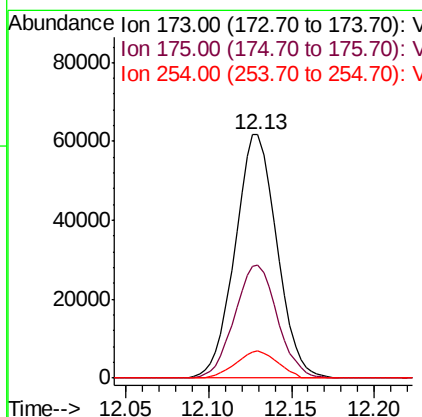
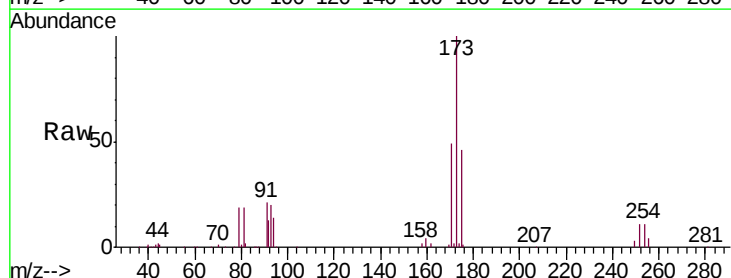
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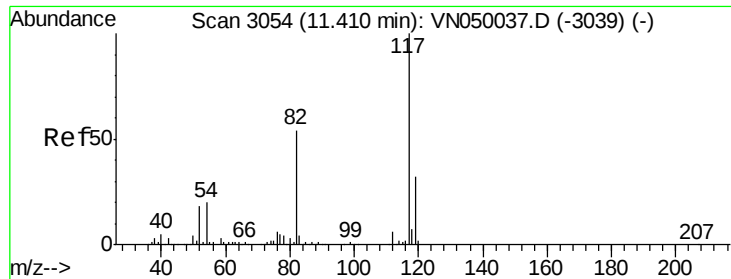
MMDadoda
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#56
Bromoform
Concen: 18.91 ug/l
RT: 12.13 min Scan# 3278
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
173	100		
175	47.2	38.6	57.8
254	11.0	8.8	13.2





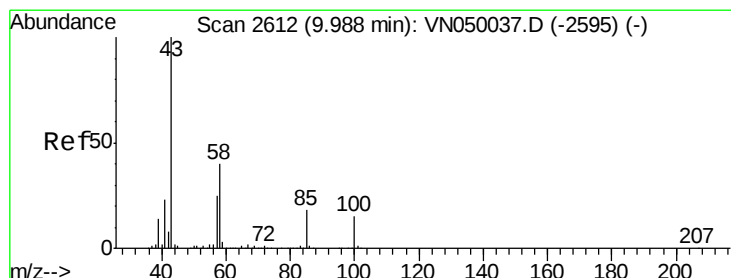
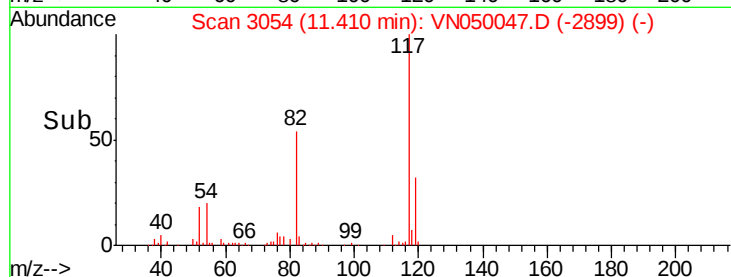
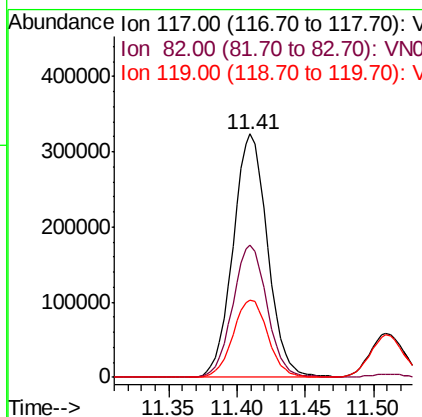
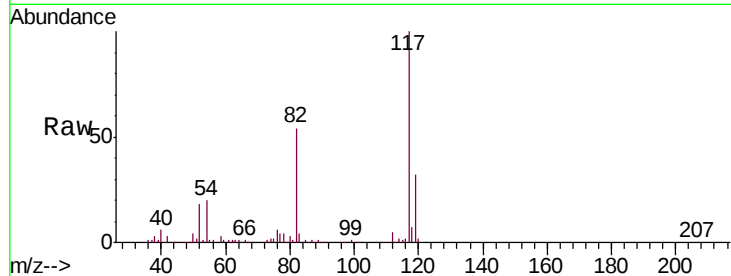
#57
Chlorobenzene-d5
Concen: 30.00 ug/l
RT: 11.41 min Scan# 3054
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
117	100		
82	54.2	42.4	63.6
119	32.3	25.4	38.0

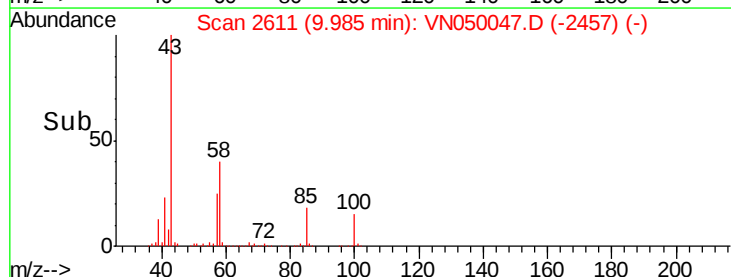
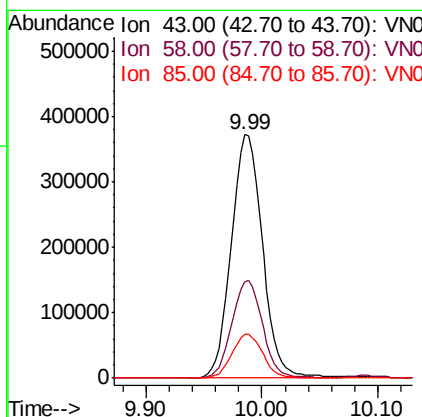
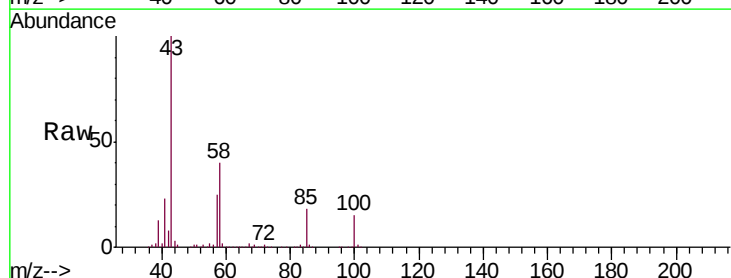
Manual Integrations
APPROVED

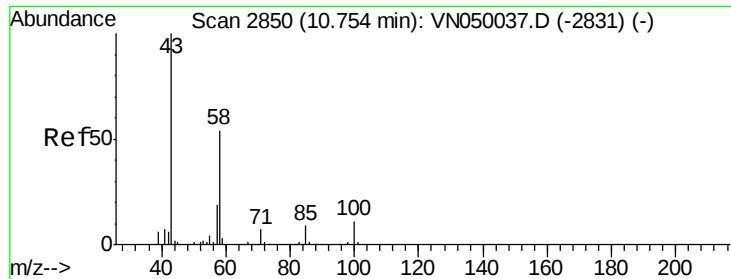
MMDadoda
7/26/2018 3:54:37 PM



#58
4-Methyl-2-Pentanone
Concen: 104.35 ug/l
RT: 9.99 min Scan# 2611
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
43	100		
58	39.6	31.2	46.8
85	18.1	14.4	21.6





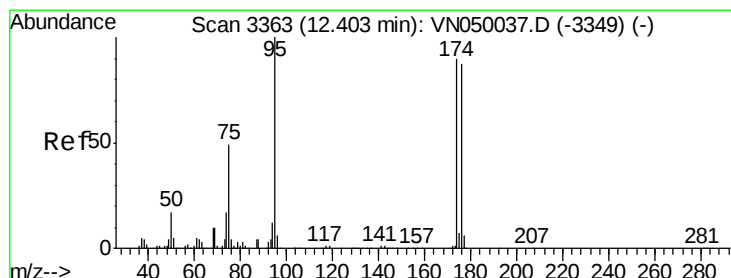
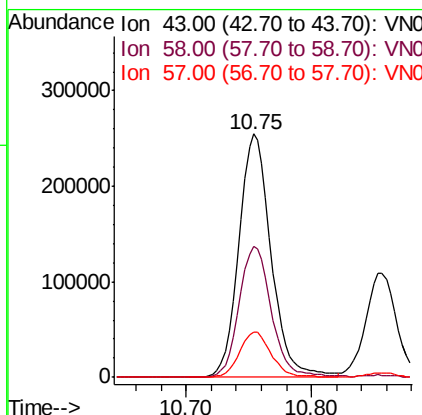
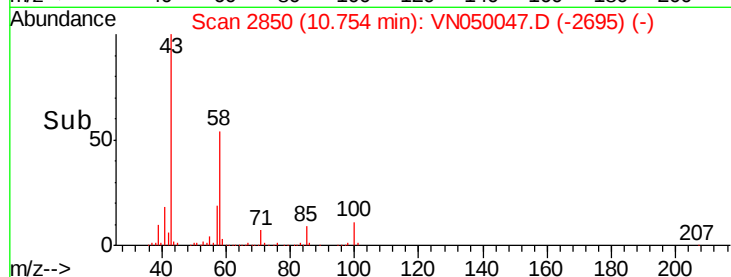
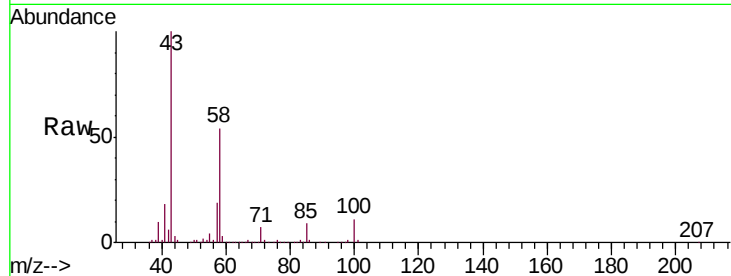
#59
2-Hexanone
Concen: 100.46 ug/l
RT: 10.75 min Scan# 2850
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
43	100		
58	54.3	43.8	65.8
57	18.6	15.1	22.7

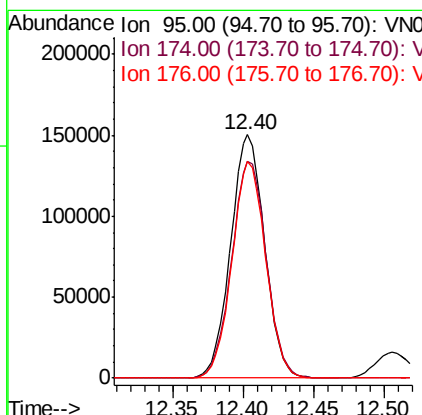
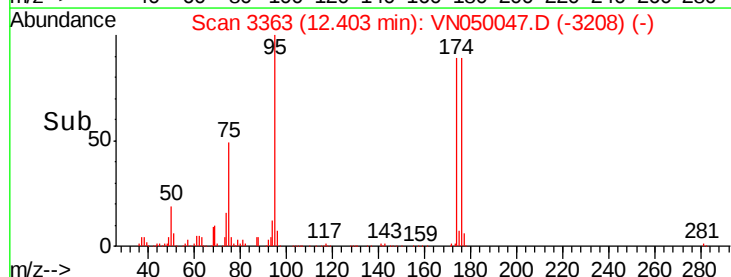
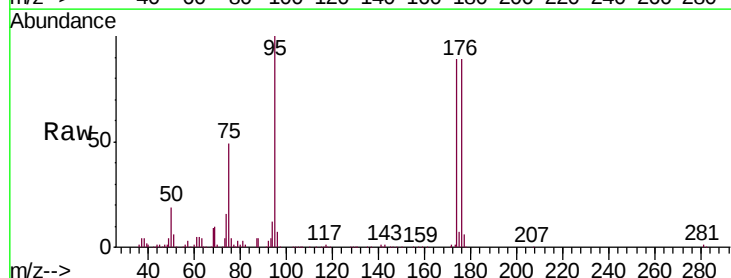
Manual Integrations
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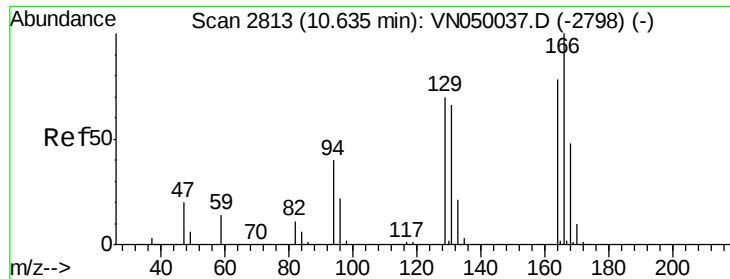
MMDadoda
7/26/2018 3:54:37 PM



#60
4-Bromofluorobenzene
Concen: 29.06 ug/l
RT: 12.40 min Scan# 3363
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
95	100		
174	91.0	72.3	108.5
176	88.6	70.0	105.0





#61

Tetrachloroethene

Concen: 19.41 ug/l

RT: 10.63 min Scan# 2812

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:164 Resp: 149399

Ion Ratio Lower Upper

164 100

166 127.9 100.0 150.0

129 90.8 69.3 103.9

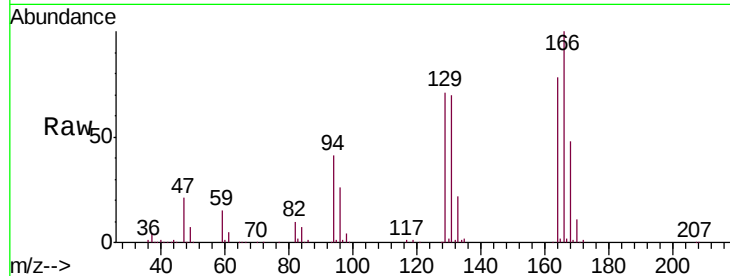
131 89.1 68.8 103.2

Manual Integrations

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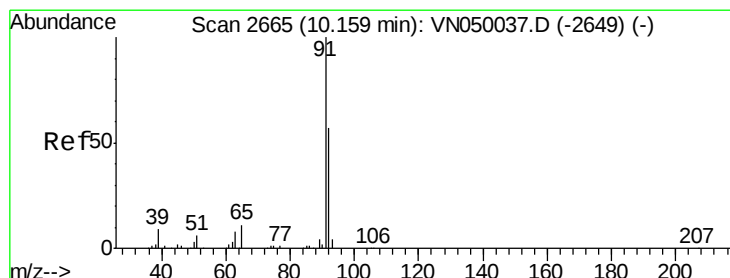
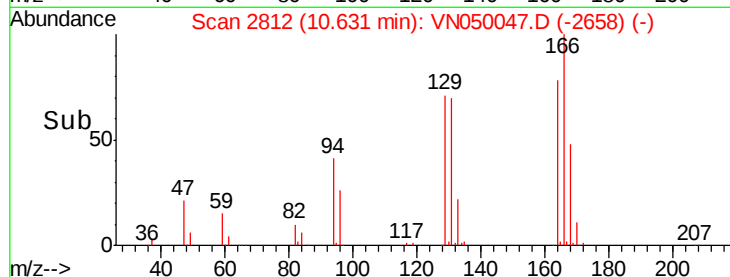
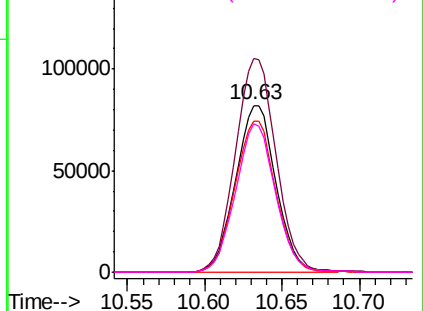


Abundance Ion 163.85 (163.55 to 164.55): V

Ion 165.80 (165.50 to 166.50): V

Ion 128.90 (128.60 to 129.60): V

Ion 130.90 (130.60 to 131.60): V



#62

Toluene

Concen: 19.32 ug/l

RT: 10.16 min Scan# 2664

Delta R.T. -0.00 min

Lab File: VN050047.D

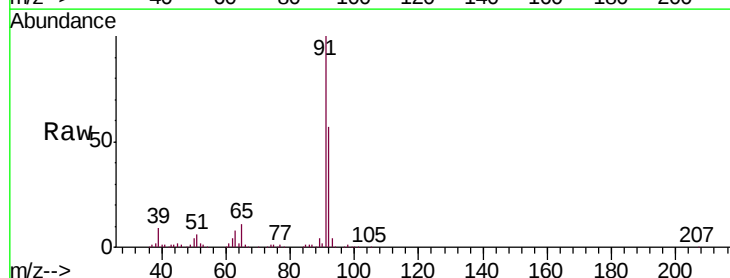
Acq: 25 Jul 2018 15:56

Tgt Ion: 91 Resp: 626484

Ion Ratio Lower Upper

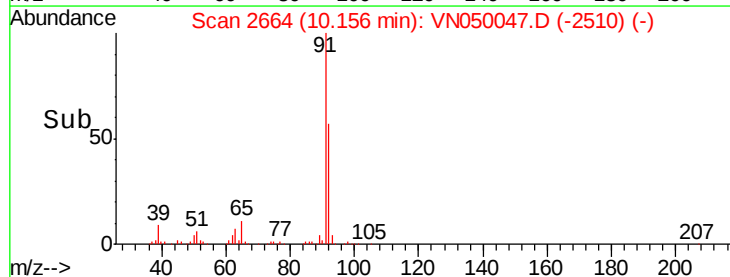
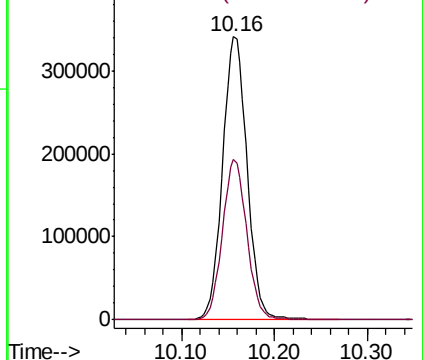
91 100

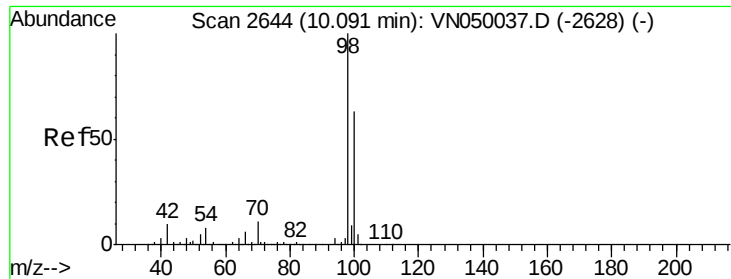
92 56.3 45.7 68.5



Abundance Ion 91.00 (90.70 to 91.70): VNO

Ion 92.00 (91.70 to 92.70): VNO





#63

Toluene-d8

Concen: 30.04 ug/l

RT: 10.09 min Scan# 2644

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion: 98 Resp: 815237

Ion Ratio Lower Upper

98 100

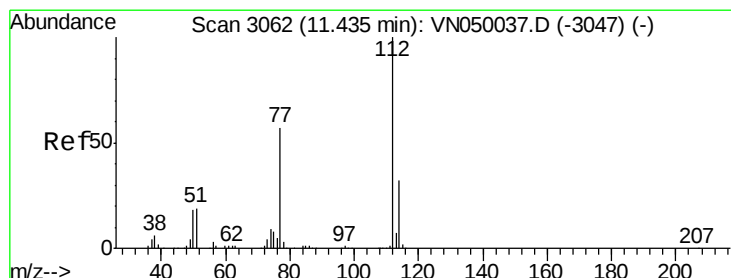
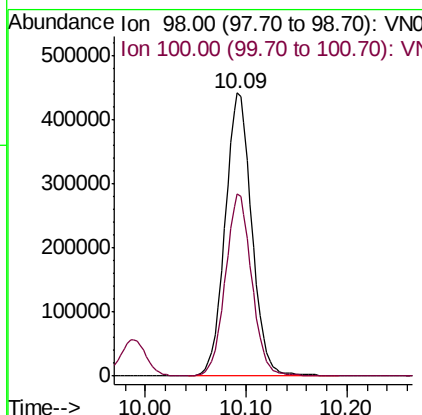
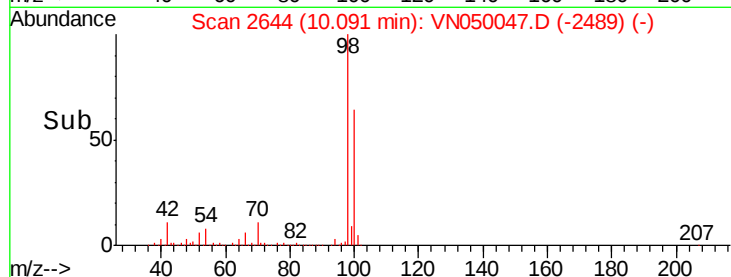
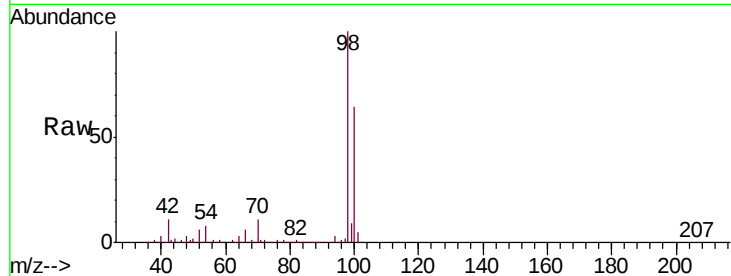
100 63.0 51.2 76.8

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#64

Chlorobenzene

Concen: 19.30 ug/l

RT: 11.44 min Scan# 3062

Delta R.T. -0.00 min

Lab File: VN050047.D

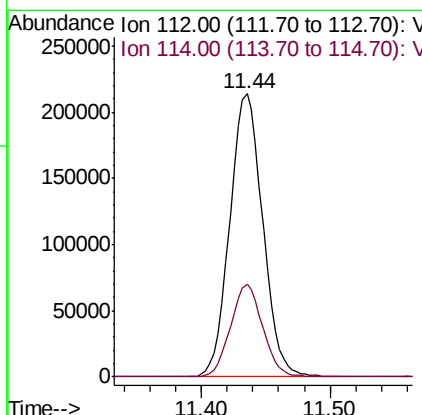
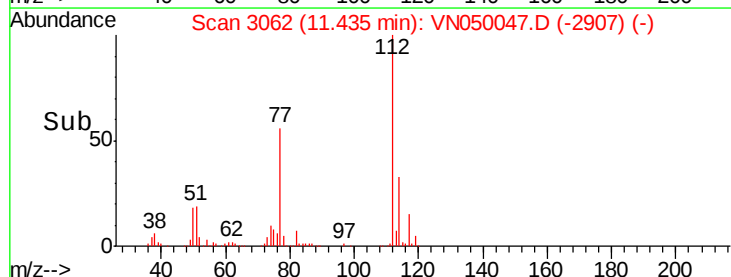
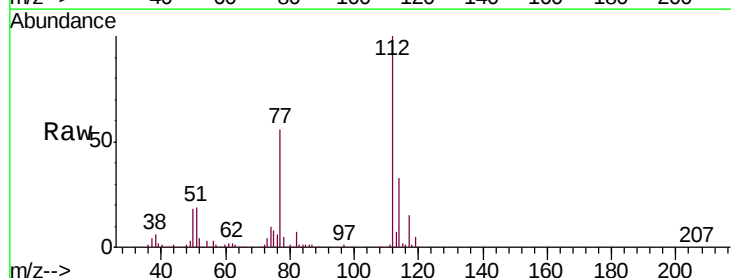
Acq: 25 Jul 2018 15:56

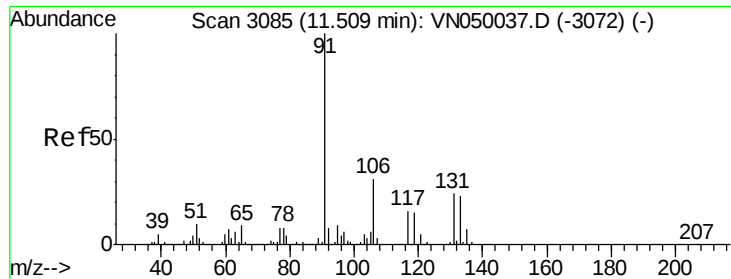
Tgt Ion: 112 Resp: 379324

Ion Ratio Lower Upper

112 100

114 32.8 26.2 39.2





#65

1,1,1,2-Tetrachloroethane

Concen: 19.46 ug/l

RT: 11.51 min Scan# 3085

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

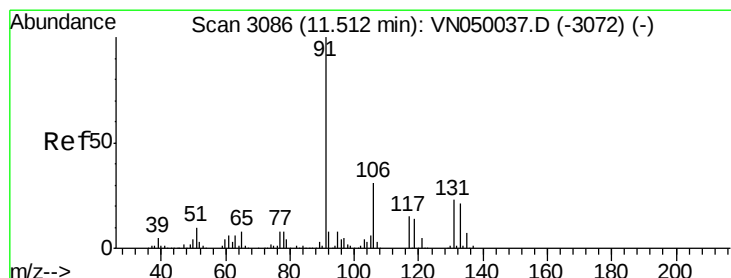
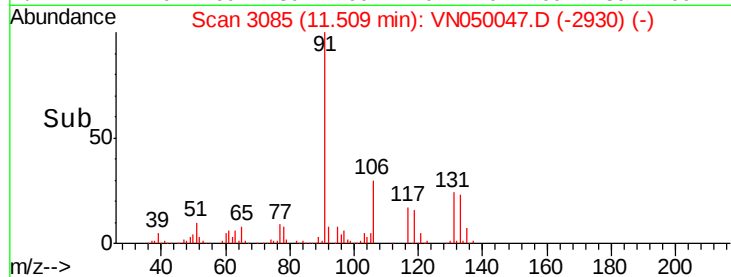
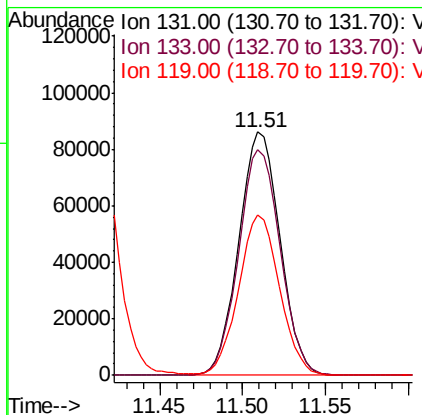
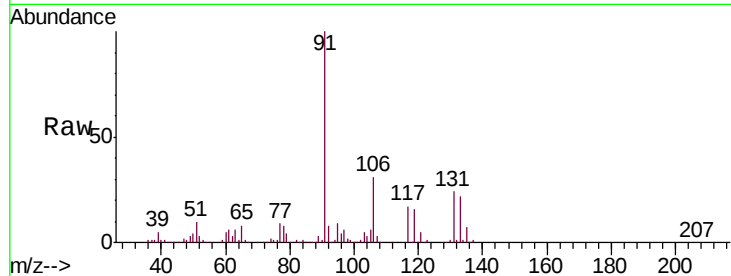
ClientSampleId :

VSTDCCC020EC

Tot Ion:	131	Resp:	149193
Ion Ratio	Lower	Upper	
131	100		
133	94.1	0.0	190.0
119	65.6	0.0	131.6

Manual Integrations
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#66

Ethyl Benzene

Concen: 18.94 ug/l

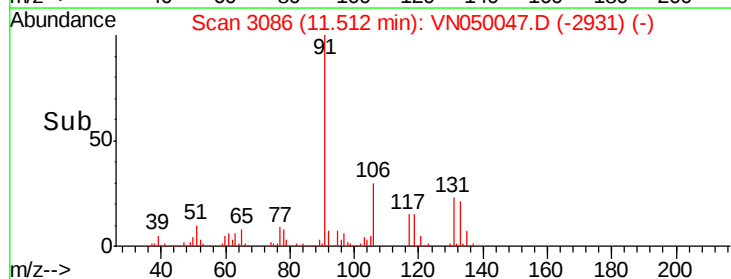
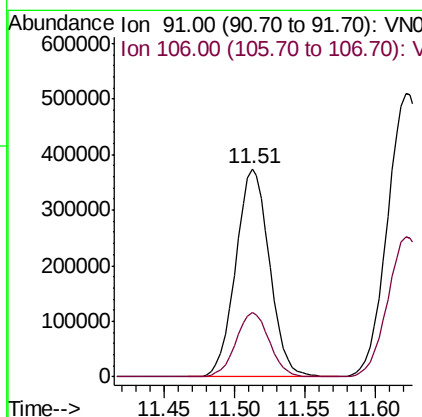
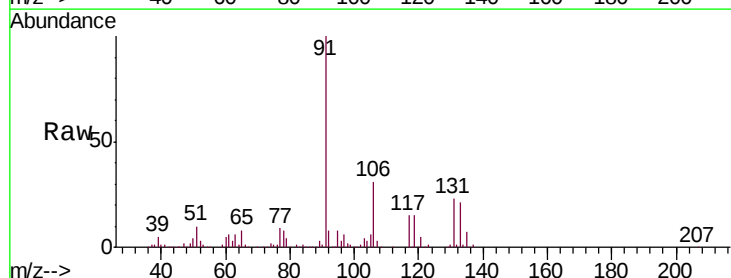
RT: 11.51 min Scan# 3086

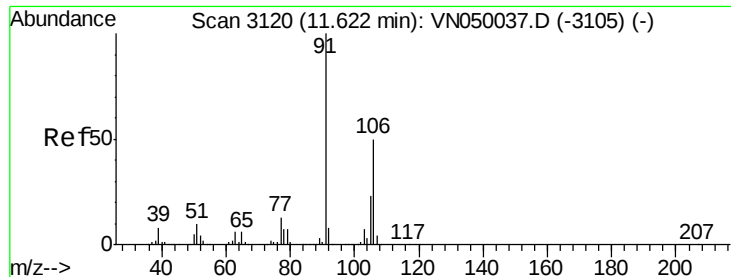
Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Tgt Ion:	91	Resp:	627419
Ion Ratio	Lower	Upper	
91	100		
106	30.8	25.1	37.7





#67

m/p-Xylenes

Concen: 38.46 ug/l

RT: 11.62 min Scan# 3120

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:106 Resp: 490398

Ion Ratio Lower Upper

106 100

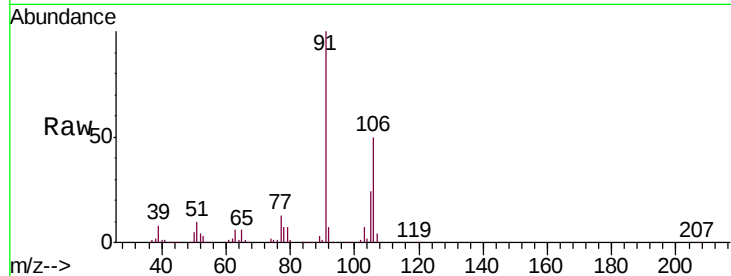
91 202.5 162.5 243.7

Manual Integrations

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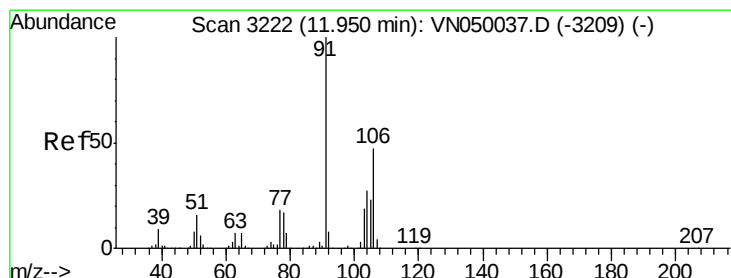
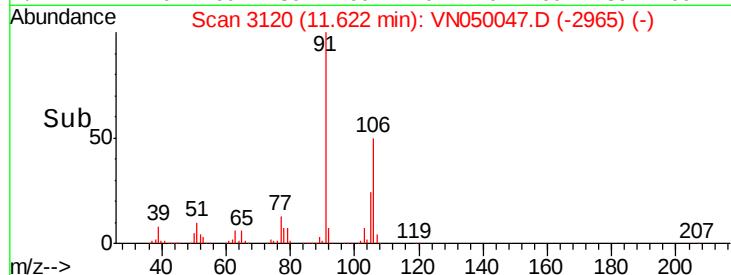
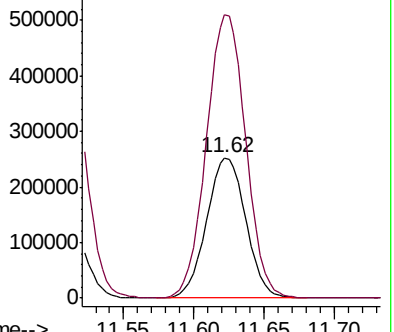
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Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN



#68

o-Xylene

Concen: 18.89 ug/l

RT: 11.95 min Scan# 3222

Delta R.T. -0.00 min

Lab File: VN050047.D

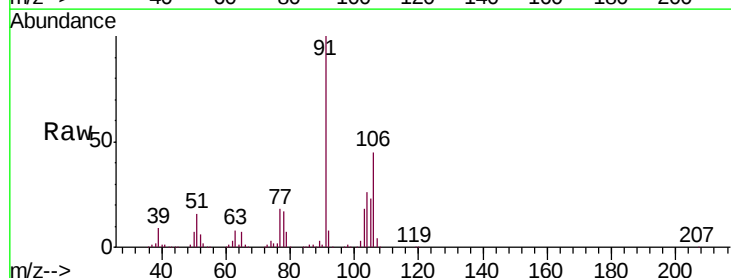
Acq: 25 Jul 2018 15:56

Tgt Ion:106 Resp: 229196

Ion Ratio Lower Upper

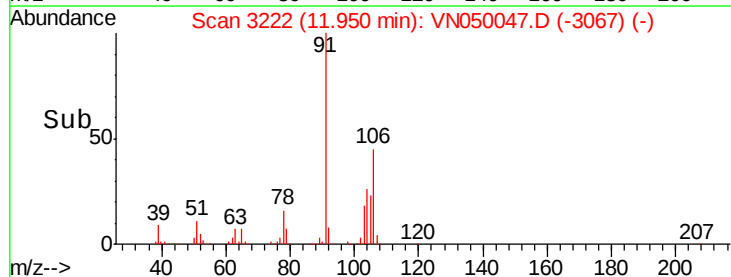
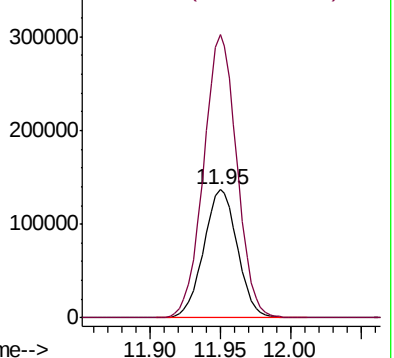
106 100

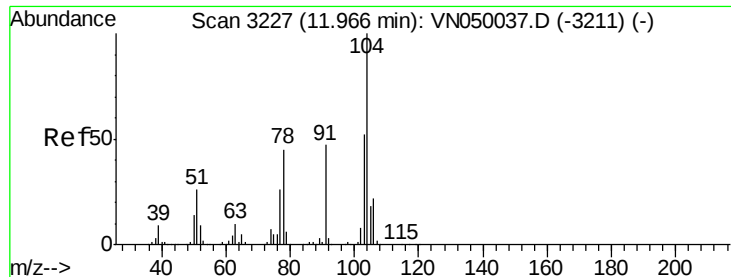
91 217.4 106.8 320.4



Abundance Ion 106.00 (105.70 to 106.70): V

Ion 91.00 (90.70 to 91.70): VN





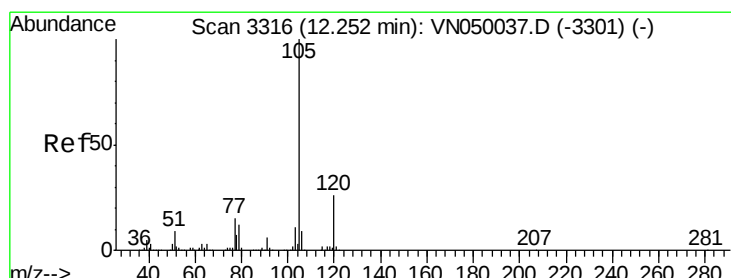
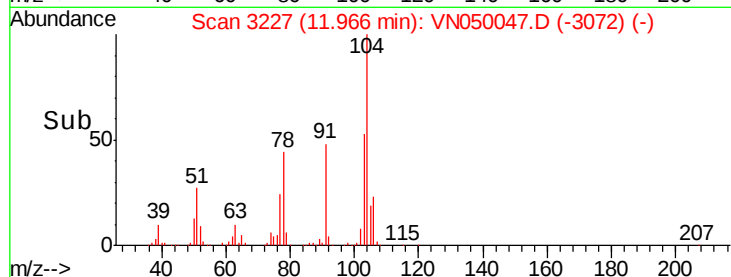
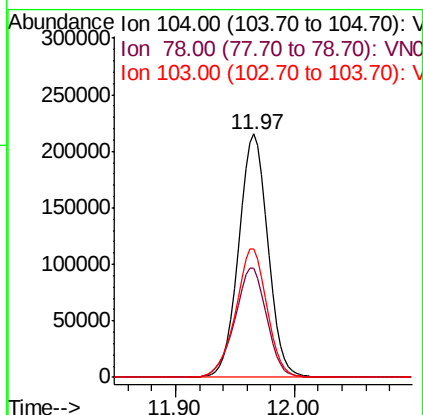
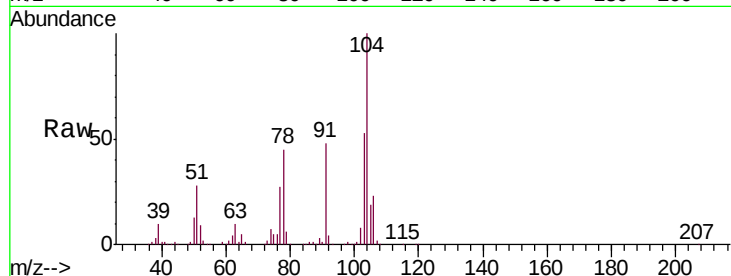
#69
Stvrene
Concen: 18.87 ug/l
RT: 11.97 min Scan# 3227
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
104	100		
78	49.2	39.3	58.9
103	56.5	44.5	66.7

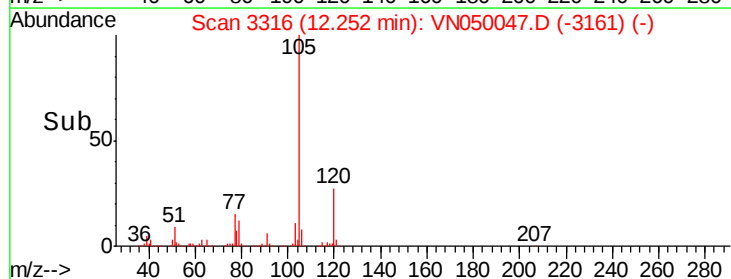
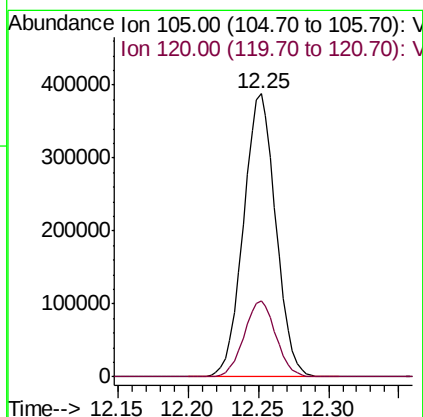
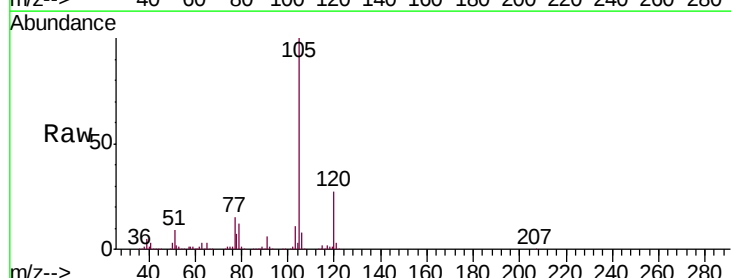
Manual Integrations
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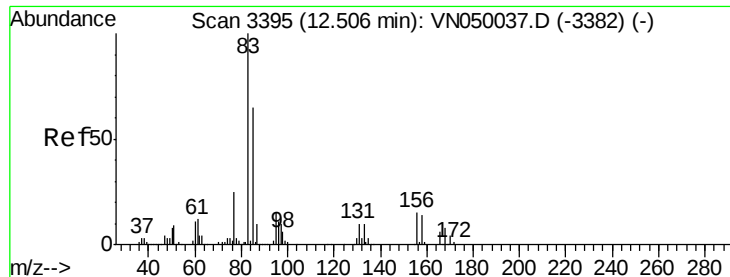
MMDadoda
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#70
Isopropylbenzene
Concen: 19.26 ug/l
RT: 12.25 min Scan# 3316
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
105	100		
120	26.6	18.9	35.1





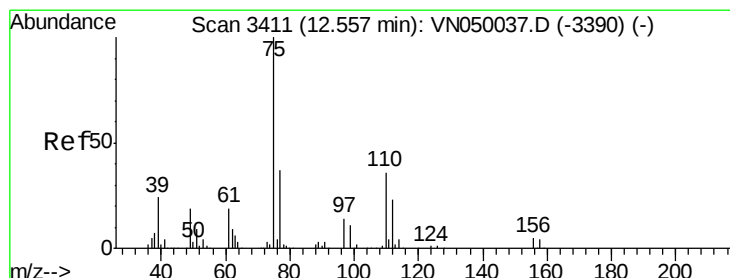
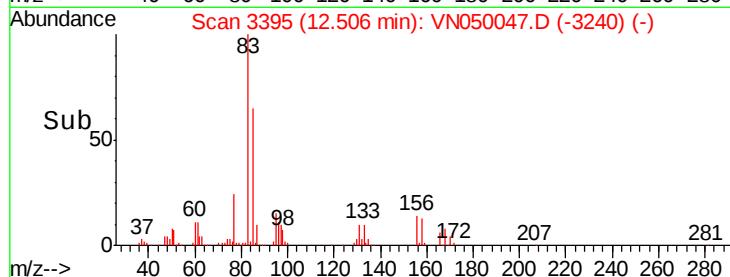
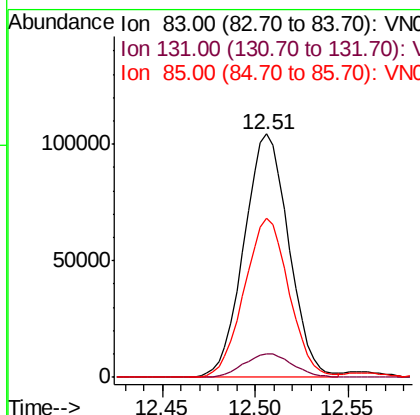
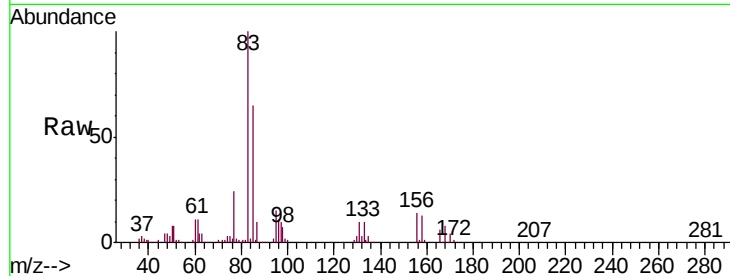
#71
 1,1,2,2-Tetrachloroethane
 Concen: 19.84 ug/l
 RT: 12.51 min Scan# 3395
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
83	100		
131	10.4	5.2	15.6
85	65.2	31.7	95.1

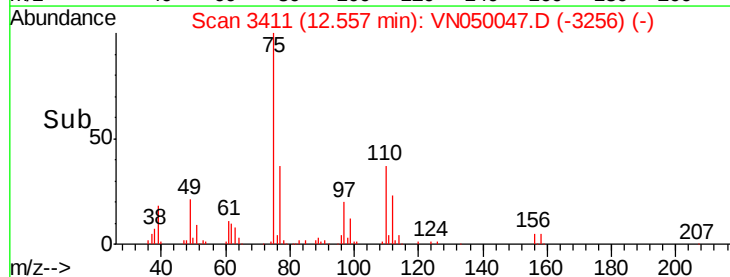
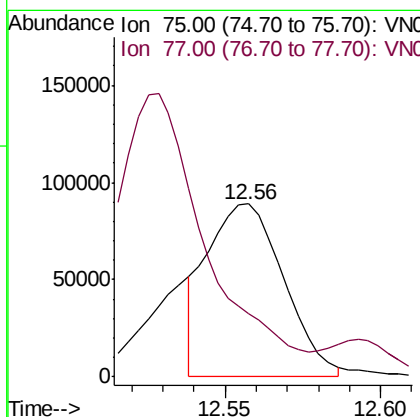
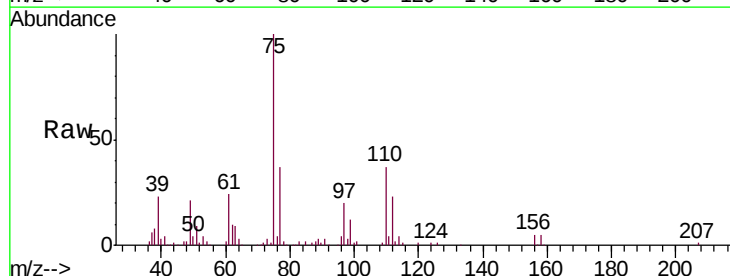
Manual Integrations
 APPROVED

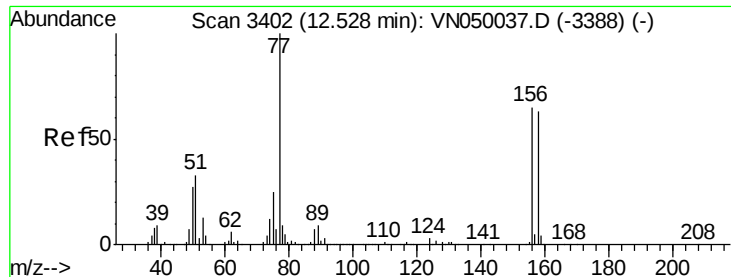
MMDadoda
 7/26/2018 3:54:37 PM



#72
 1,2,3-Trichloropropane
 Concen: 20.85 ug/l m
 RT: 12.56 min Scan# 3411
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
75	100		
77	196.3	0.0	454.4





#73

Bromobenzene

Concen: 19.11 ug/l

RT: 12.53 min Scan# 3402

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

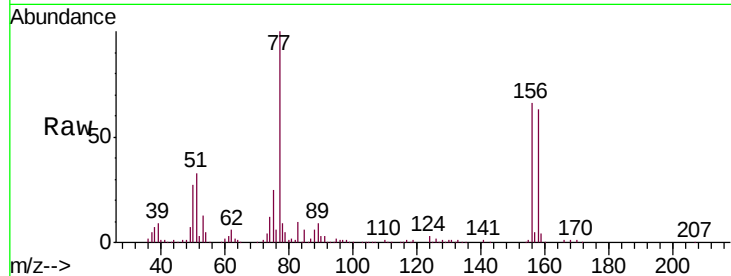
ClientSampleId :

VSTDCCC020EC

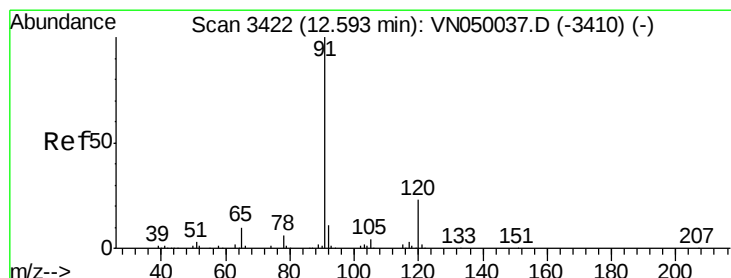
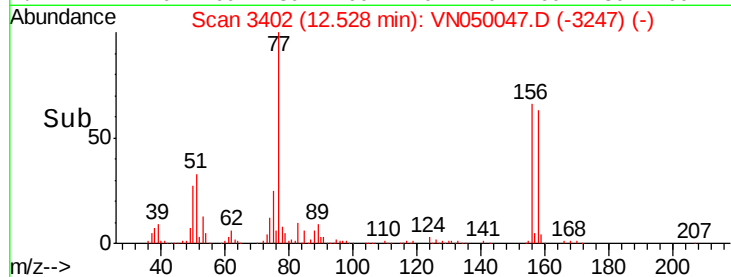
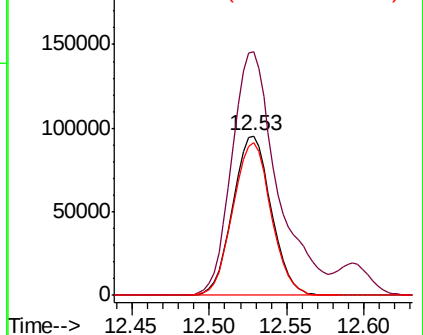
Tot Ion:	156	Resp:	164456
Ion Ratio	Lower	Upper	
156	100		
77	182.0	0.0	359.8
158	95.2	0.0	192.8

Manual Integrations
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Abundance Ion 156.00 (155.70 to 156.70): V
Ion 77.00 (76.70 to 77.70): VN
Ion 158.00 (157.70 to 158.70): V



#74

n-propylbenzene

Concen: 18.82 ug/l

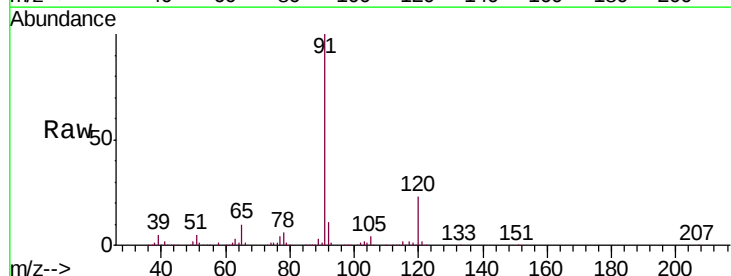
RT: 12.59 min Scan# 3422

Delta R.T. -0.00 min

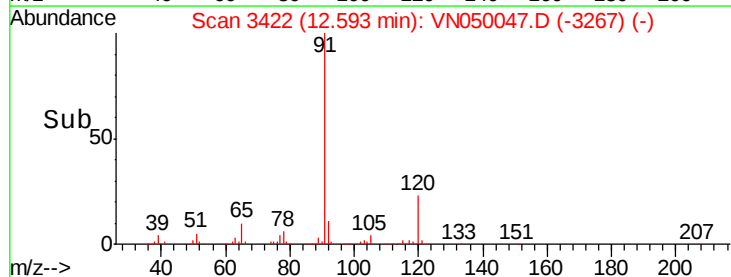
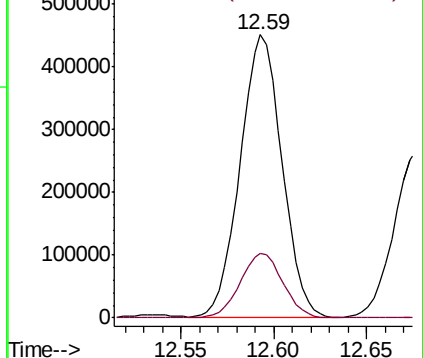
Lab File: VN050047.D

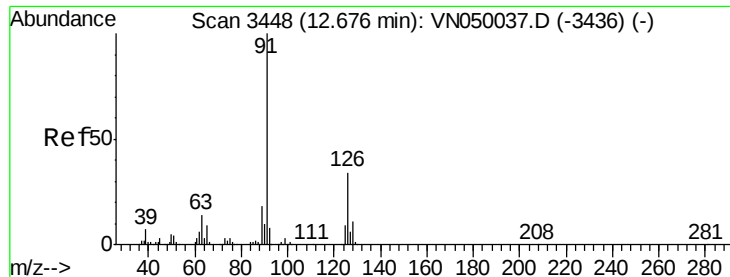
Acq: 25 Jul 2018 15:56

Tgt Ion:	91	Resp:	708017
Ion Ratio	Lower	Upper	
91	100		
120	23.0	0.0	46.4



Abundance Ion 91.00 (90.70 to 91.70): VN
Ion 120.00 (119.70 to 120.70): V





#75

2-Chlorotoluene

Concen: 19.32 ug/l

RT: 12.68 min Scan# 3448

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

ClientSampled :

VSTDCCC020EC

Tot Ion: 91 Resp: 436604

Ion Ratio Lower Upper

91 100

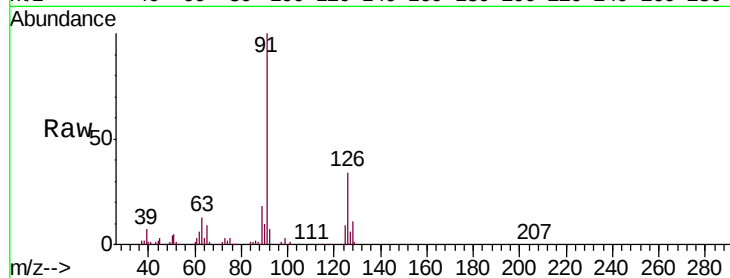
126 34.3 0.0 68.6

Manual Integrations

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Abundance Ion 91.00 (90.70 to 91.70): VN050037.D (-3436) (-)

Ion 126.00 (125.70 to 126.70): VN050037.D (-3436) (-)

500000

400000

300000

200000

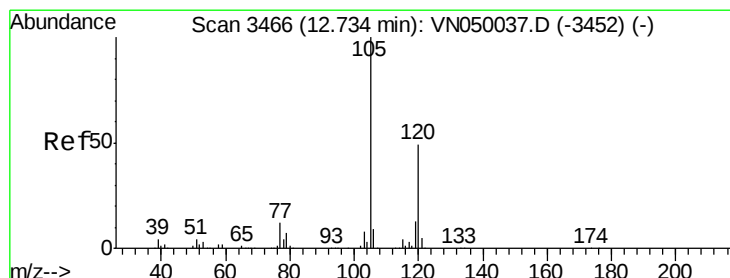
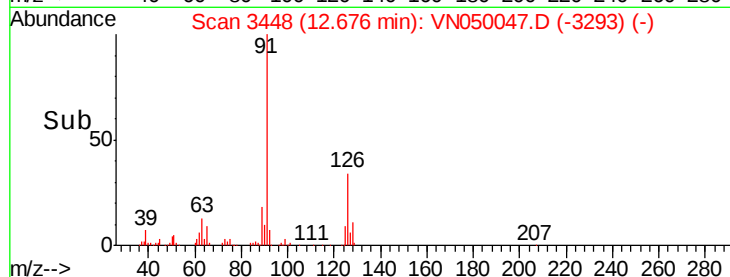
100000

0

12.60 12.65 12.70

12.68

Time-->



#76

1,3,5-Trimethylbenzene

Concen: 19.09 ug/l

RT: 12.73 min Scan# 3466

Delta R.T. -0.00 min

Lab File: VN050047.D

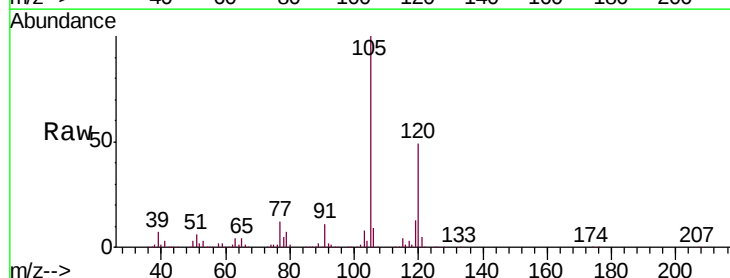
Acq: 25 Jul 2018 15:56

Tgt Ion: 105 Resp: 506591

Ion Ratio Lower Upper

105 100

120 49.5 0.0 98.0



Abundance Ion 105.00 (104.70 to 105.70): VN050037.D (-3452) (-)

Ion 120.00 (119.70 to 120.70): VN050037.D (-3452) (-)

400000

300000

200000

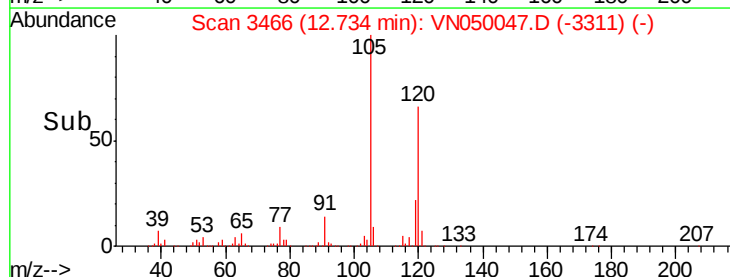
100000

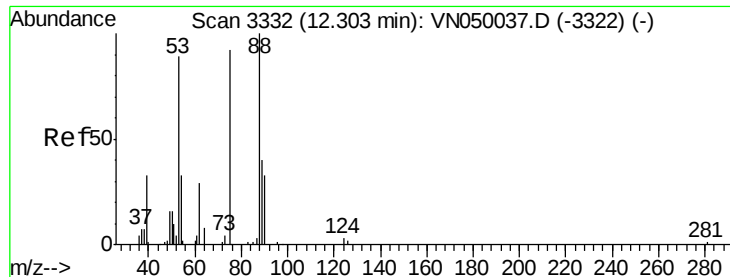
0

12.65 12.70 12.75 12.80

12.73

Time-->





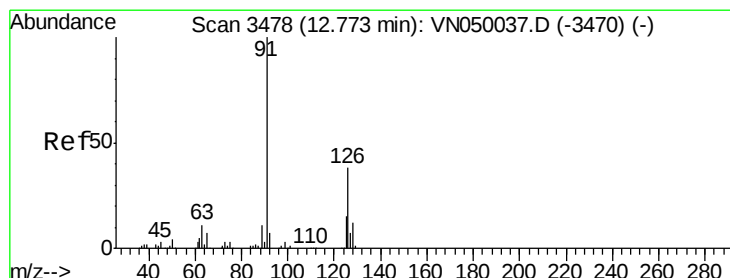
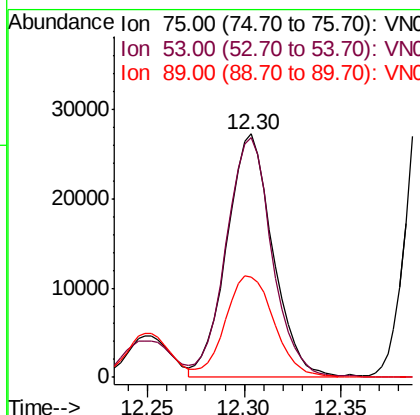
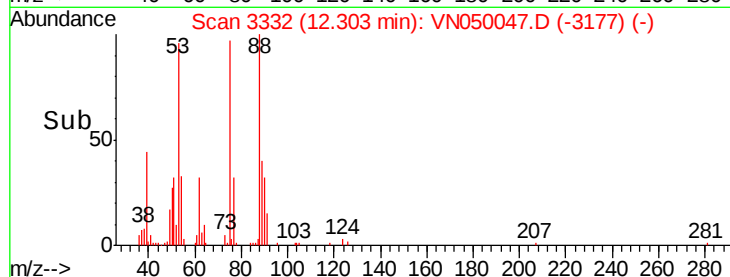
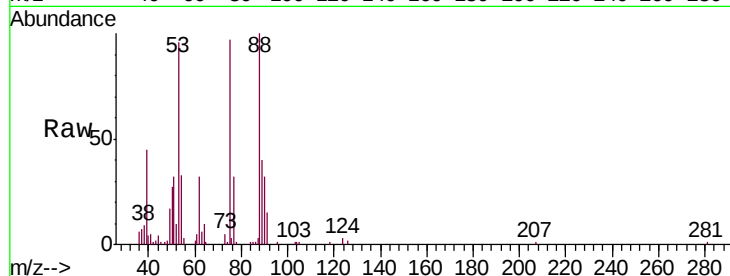
#77
t-1,4-Dichloro-2-butene
Concen: 18.23 ug/l
RT: 12.30 min Scan# 3332
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Lower	Upper
75	100		
53	98.8	44.6	134.0
89	41.7	20.7	62.1

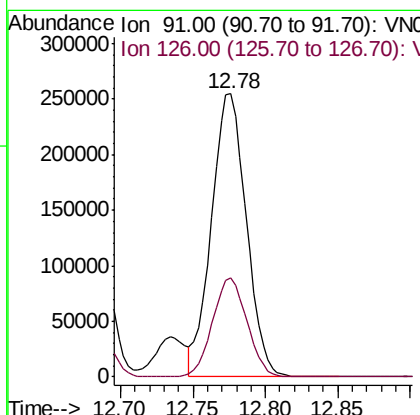
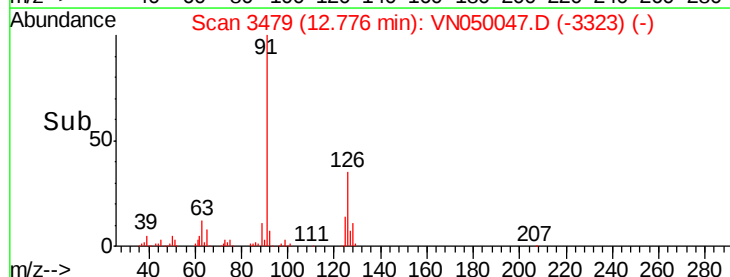
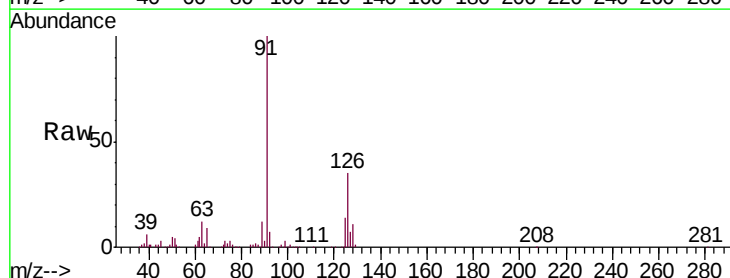
Manual Integrations
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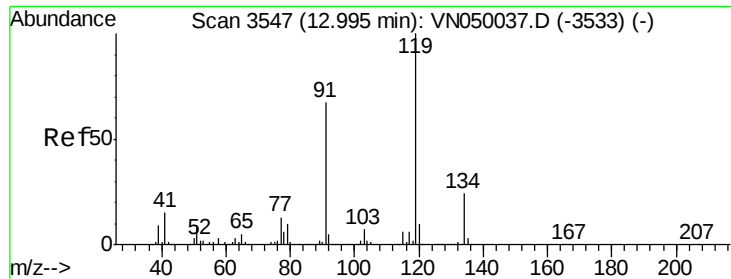
MMDadoda
7/26/2018 3:54:37 PM



#78
4-Chlorotoluene
Concen: 18.91 ug/l
RT: 12.78 min Scan# 3479
Delta R.T. 0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Lower	Upper
91	100		
126	34.8	0.0	68.4





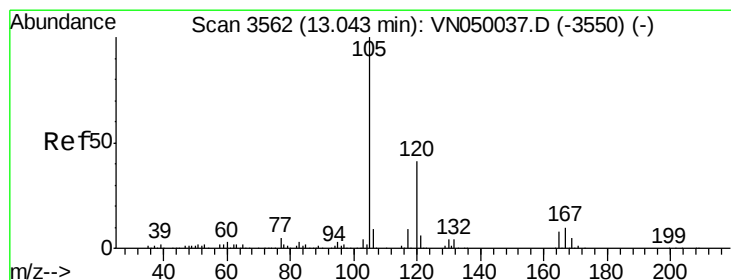
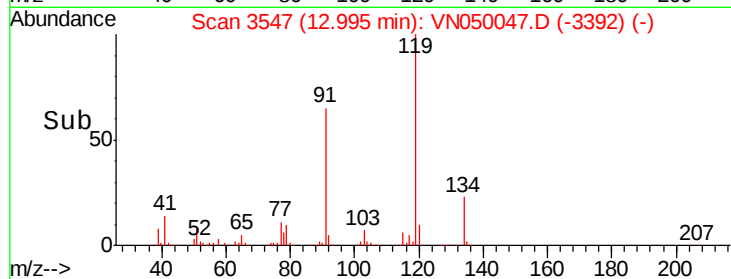
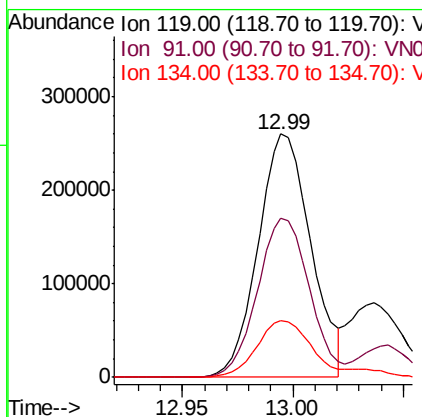
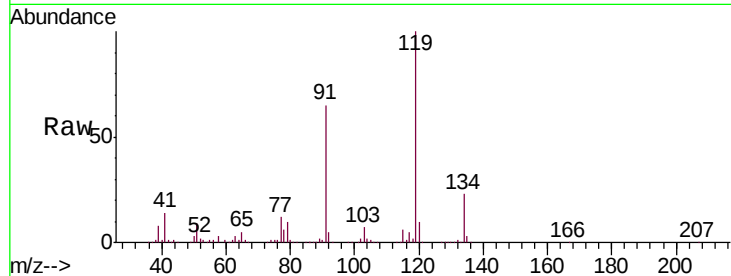
#79
tert-butylbenzene
Concen: 19.03 ug/l
RT: 12.99 min Scan# 3547
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
119	100	431613		
91	64.4	0.0	126.8	
134	24.1	0.0	47.4	

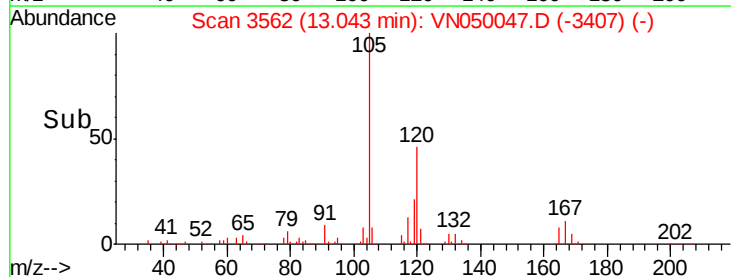
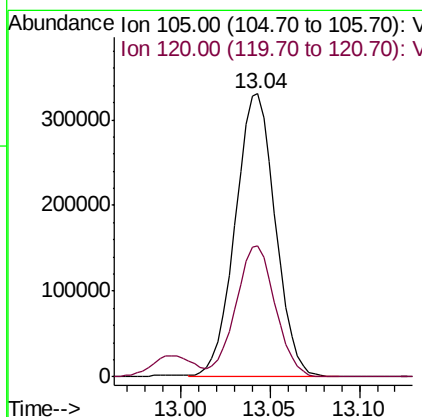
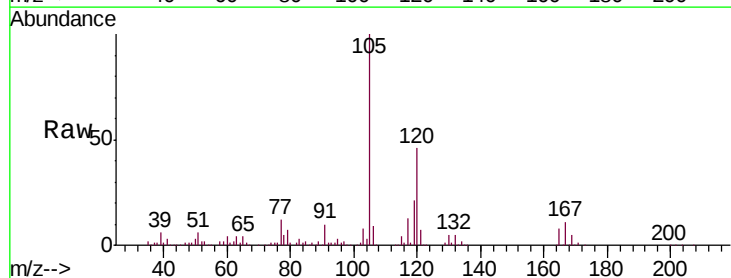
Manual Integrations
APPROVED

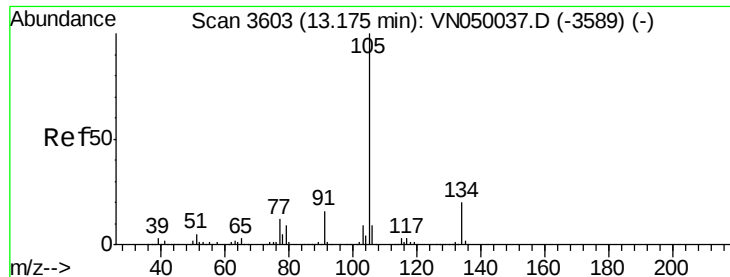
MMDadoda
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#80
1,2,4-Trimethylbenzene
Concen: 19.30 ug/l
RT: 13.04 min Scan# 3562
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Resp	Lower	Upper
105	100	518943		
120	45.8	0.0	90.6	





#81

sec-Butylbenzene

Concen: 19.09 ug/l

RT: 13.17 min Scan# 3603

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

ClientSampleId :

VSTDCCC020EC

Tot Ion:105 Resp: 588243

Ion Ratio Lower Upper

105 100

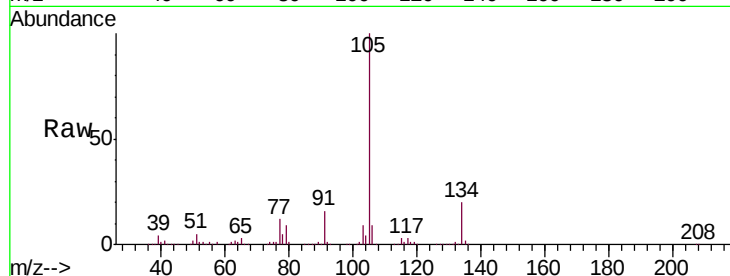
134 20.1 0.0 40.6

Manual Integrations

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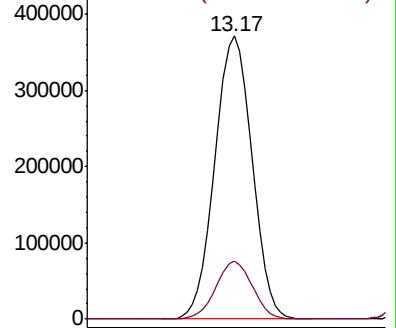
MMDadoda

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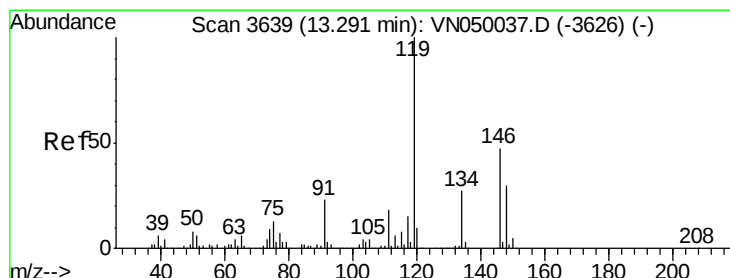
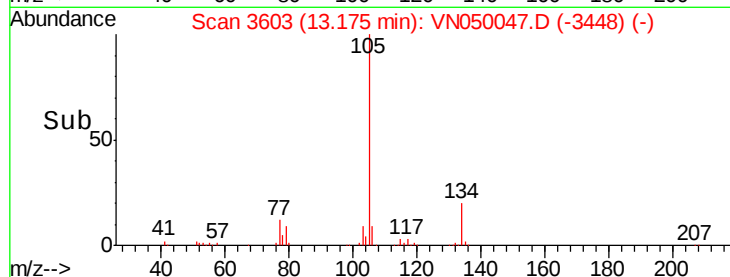


Abundance Ion 105.00 (104.70 to 105.70): V

Ion 134.00 (133.70 to 134.70): V



Time-->



#82

p-Isopropyltoluene

Concen: 19.05 ug/l

RT: 13.29 min Scan# 3640

Delta R.T. 0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

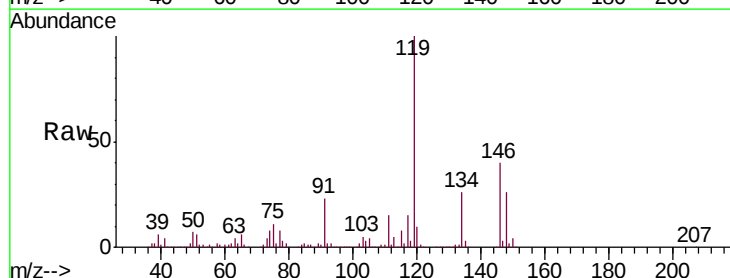
Tgt Ion:119 Resp: 500922

Ion Ratio Lower Upper

119 100

134 26.7 0.0 52.2

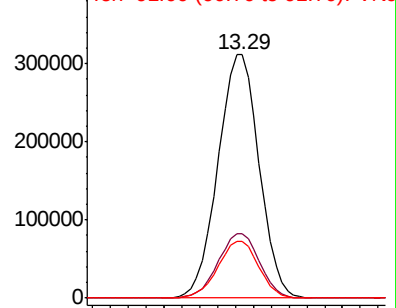
91 23.2 0.0 45.6



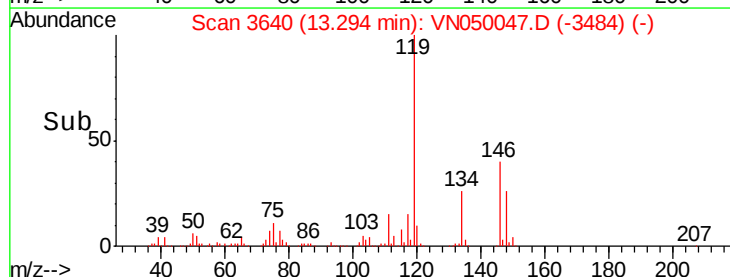
Abundance Ion 119.00 (118.70 to 119.70): V

Ion 134.00 (133.70 to 134.70): V

Ion 91.00 (90.70 to 91.70): V



Time-->





#83

1,3-Dichlorobenzene

Concen: 18.72 ug/l

RT: 13.28 min Scan# 3637

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

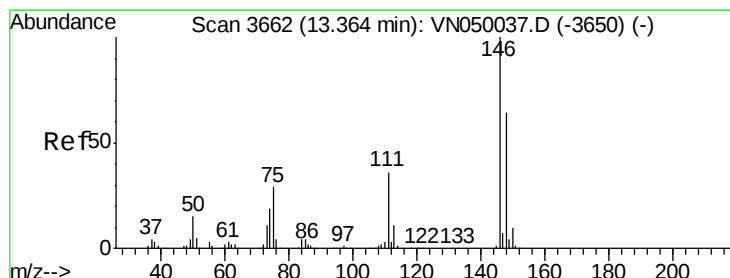
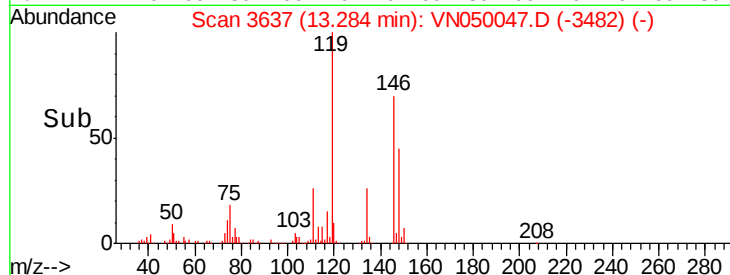
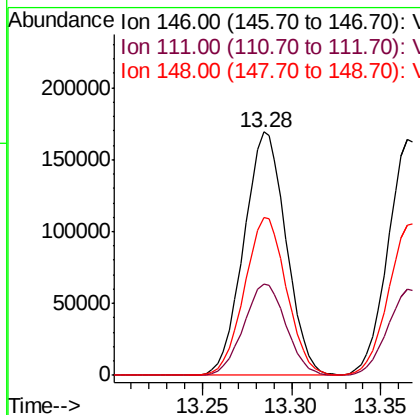
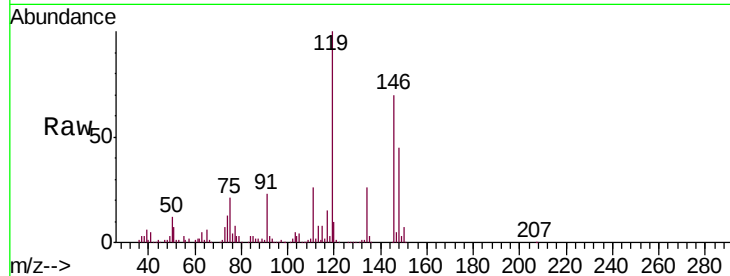
ClientSampleId :

VSTDCCC020EC

Tot Ion:	146	Resp:	280485
Ion Ratio	Lower	Upper	
146	100		
111	37.6	19.1	57.1
148	64.6	31.9	95.9

Manual Integrations
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#84

1,4-Dichlorobenzene

Concen: 19.12 ug/l

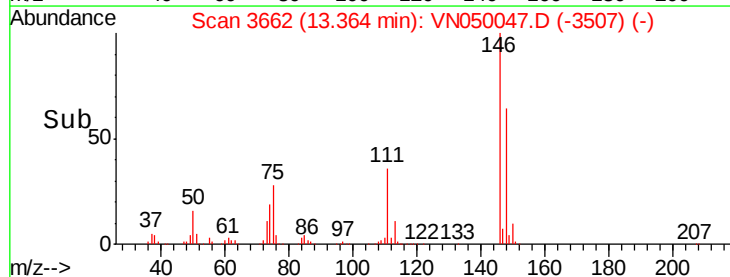
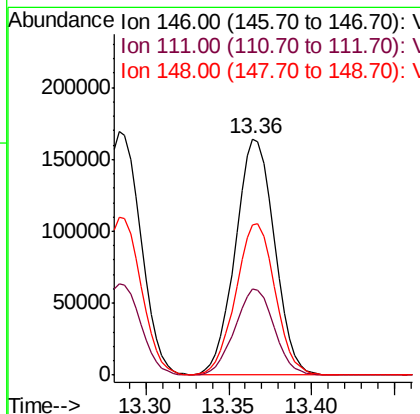
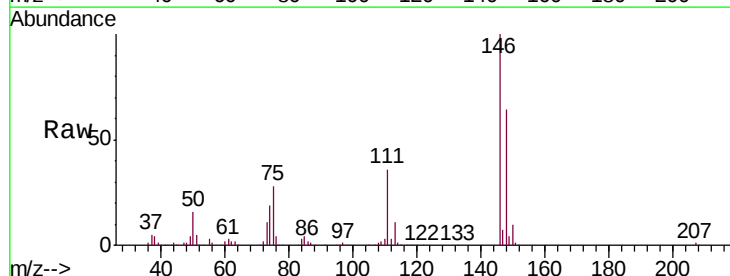
RT: 13.36 min Scan# 3662

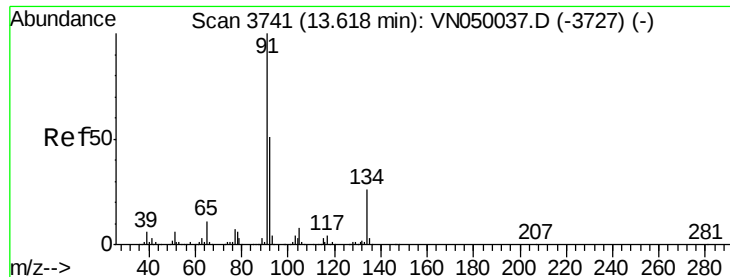
Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Tgt Ion:	146	Resp:	270719
Ion Ratio	Lower	Upper	
146	100		
111	36.4	17.9	53.8
148	64.3	32.4	97.0





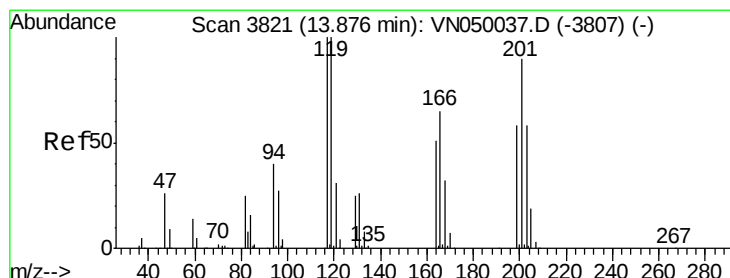
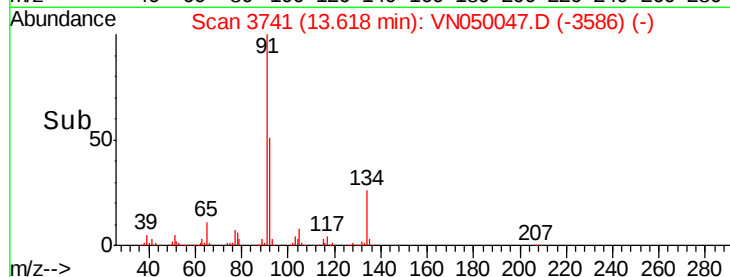
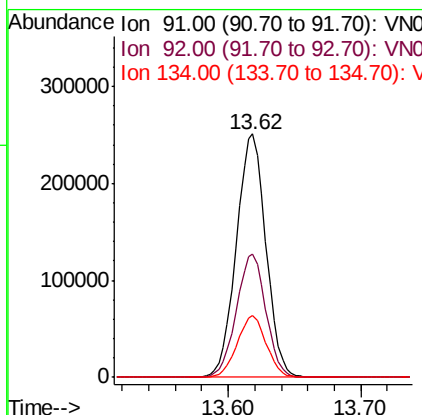
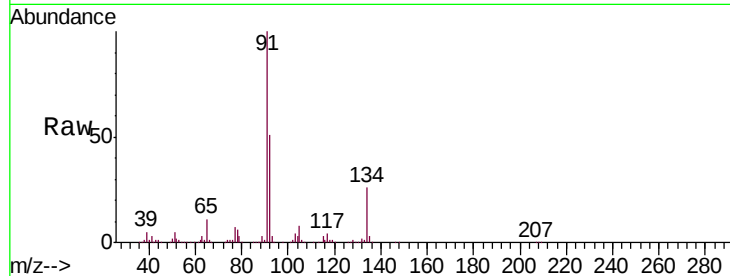
#85
n-Butylbenzene
Concen: 18.16 ug/l
RT: 13.62 min Scan# 3741
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Instrument :
MSVOA_N
ClientSampleId :
VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
91	100	387623		
92	50.5	0.0	102.8	
134	25.0	0.0	51.0	

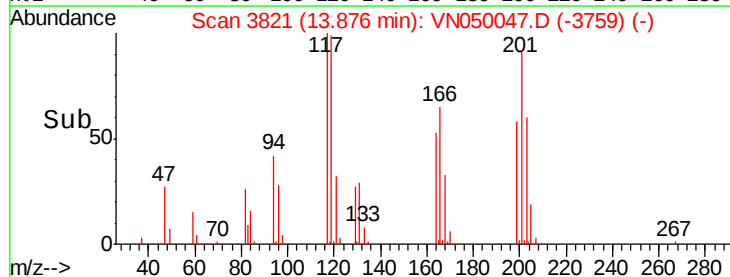
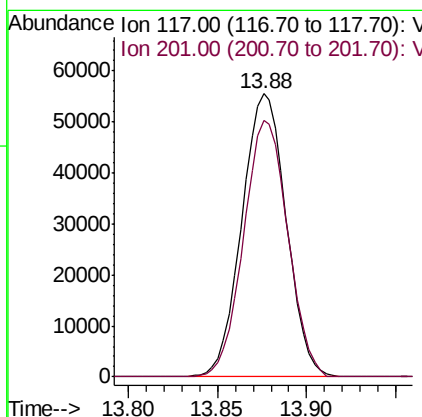
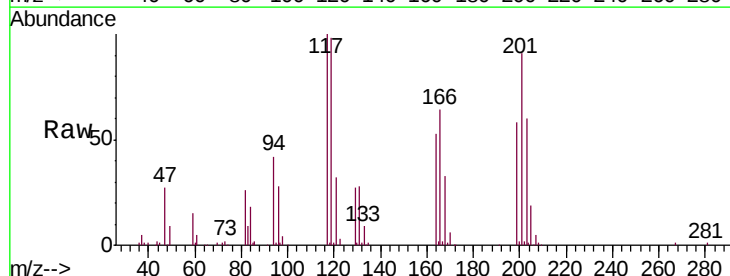
Manual Integrations
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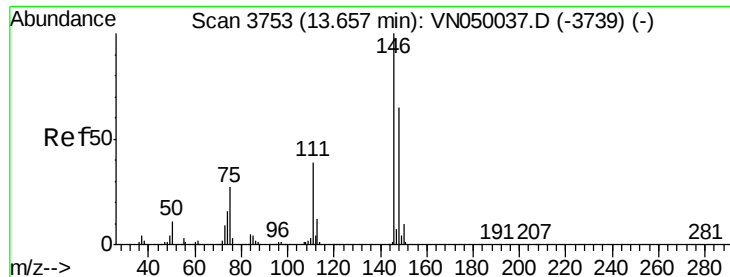
MMDadoda
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#86
Hexachloroethane
Concen: 18.34 ug/l
RT: 13.88 min Scan# 3821
Delta R.T. -0.00 min
Lab File: VN050047.D
Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Resp	Lower	Upper
117	100	96352		
201	90.1	46.6	139.7	





#87

1,2-Dichlorobenzene

Concen: 19.29 ug/l

RT: 13.65 min Scan# 3752

Delta R.T. -0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

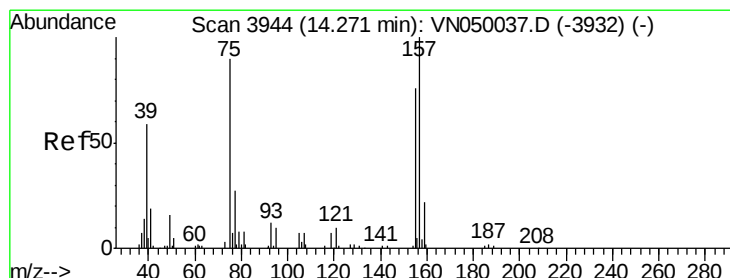
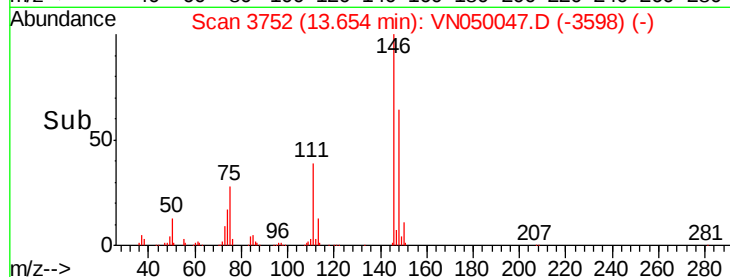
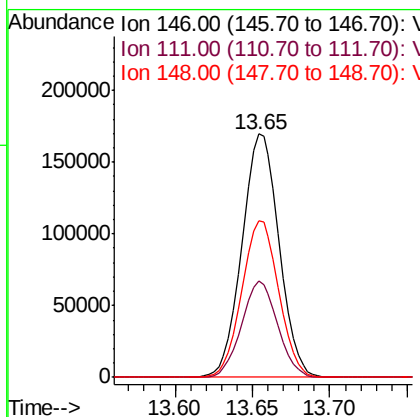
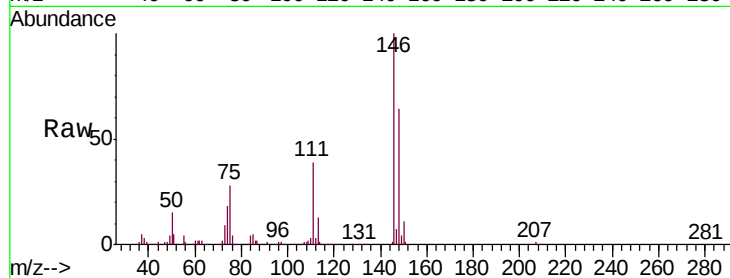
ClientSampleId :

VSTDCCC020EC

Tot Ion:	146	Resp:	282549
Ion Ratio		Lower	Upper
146	100		
111	38.4	19.8	59.3
148	64.1	31.8	95.3

Manual Integrations
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#88

1,2-Dibromo-3-Chloropropane

Concen: 20.39 ug/l

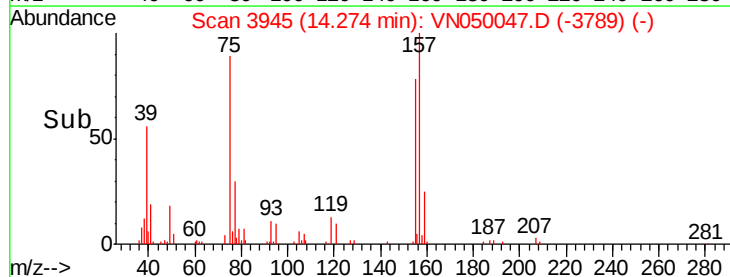
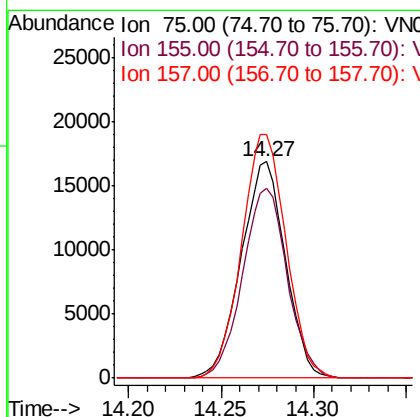
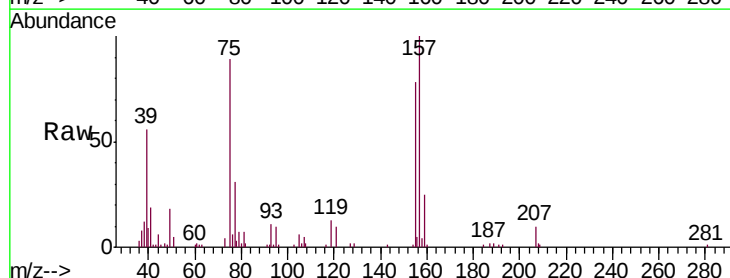
RT: 14.27 min Scan# 3945

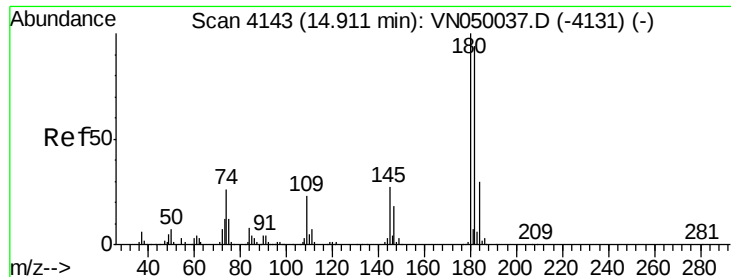
Delta R.T. 0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Tgt Ion:	75	Resp:	28181
Ion Ratio		Lower	Upper
75	100		
155	88.3	73.0	109.6
157	112.8	94.9	142.3





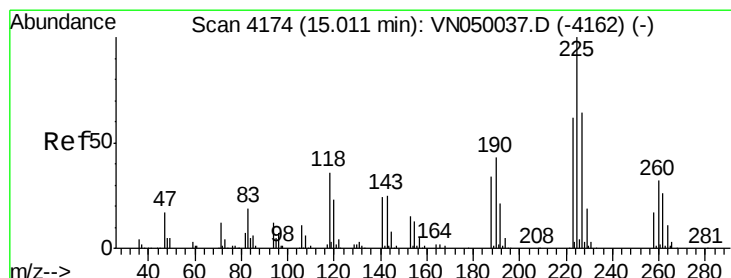
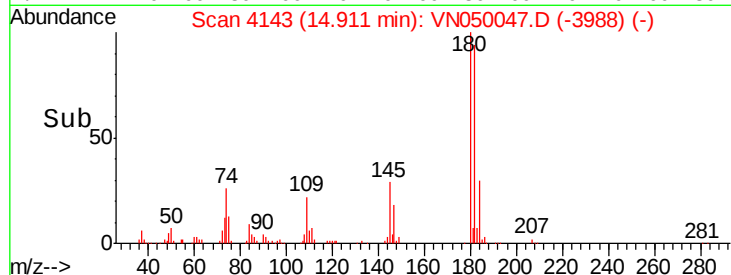
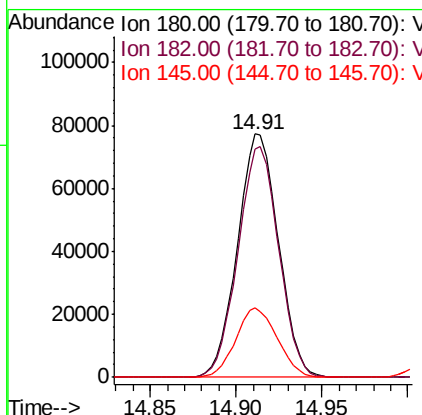
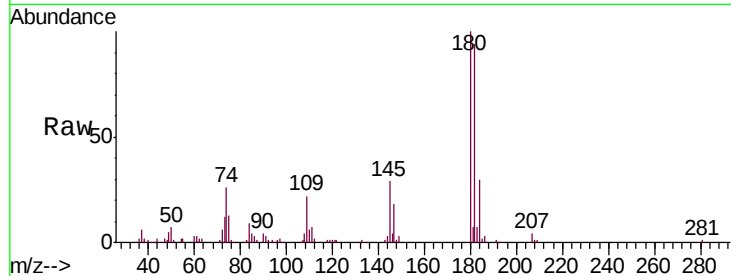
#89
 1,2,4-Trichlorobenzene
 Concen: 18.25 ug/l
 RT: 14.91 min Scan# 4143
 Delta R.T. -0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Instrument :
 MSVOA_N
 ClientSampleId :
 VSTDCCC020EC

Tot Ion	Ratio	Resp	Lower	Upper
180	100	127693		
182	94.2	76.7	115.1	
145	28.9	23.4	35.0	

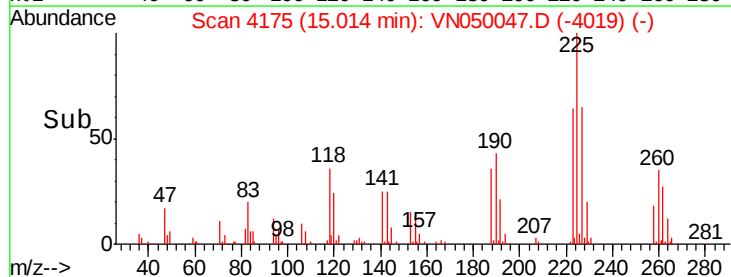
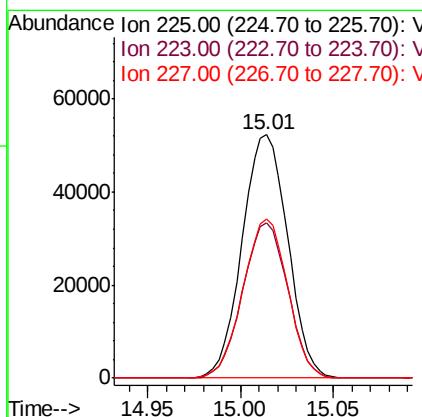
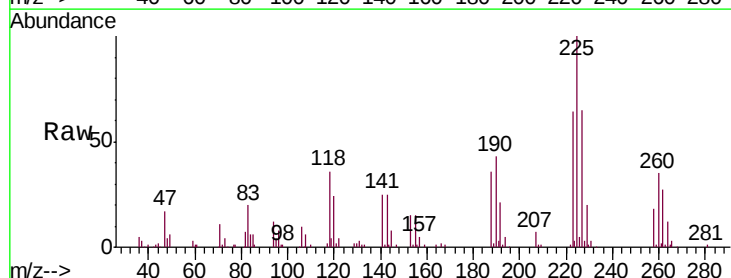
Manual Integrations
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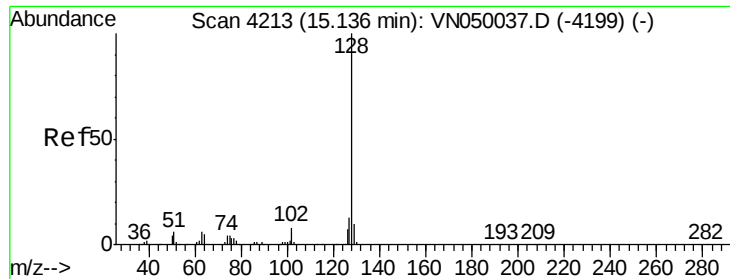
MMDadoda
 7/26/2018 3:54:37 PM



#90
 Hexachlorobutadiene
 Concen: 19.37 ug/l
 RT: 15.01 min Scan# 4175
 Delta R.T. 0.00 min
 Lab File: VN050047.D
 Acq: 25 Jul 2018 15:56

Tgt Ion	Ratio	Resp	Lower	Upper
225	100	89341		
223	63.3	0.0	124.4	
227	64.2	0.0	133.0	





#91

Naphthalene

Concen: 20.05 ug/l

RT: 15.14 min Scan# 4213

Delta R.T. 0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Instrument :

MSVOA_N

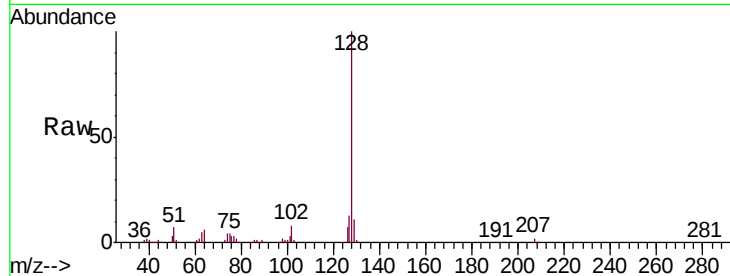
ClientSampleId :

VSTDCCC020EC

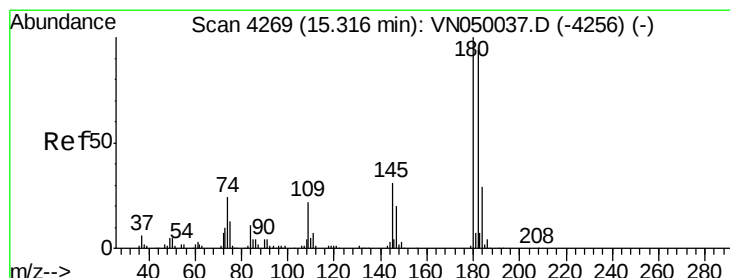
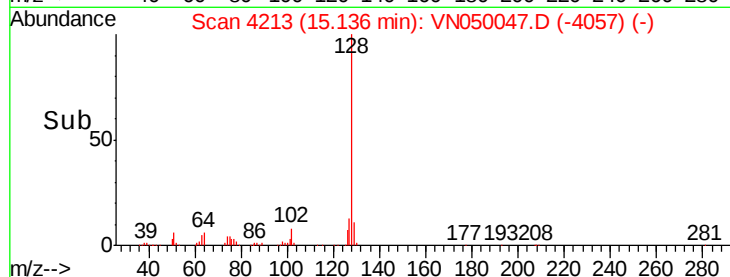
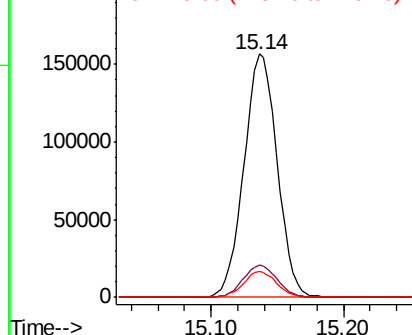
Tot Ion:	128	Resp:	272169
Ion Ratio	Lower	Upper	
128	100		
127	13.5	10.2	15.4
129	10.7	9.0	13.4

Manual Integrations
APPROVED

MMDadoda
7/26/2018 3:54:37 PM



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



#92

1,2,3-Trichlorobenzene

Concen: 18.73 ug/l

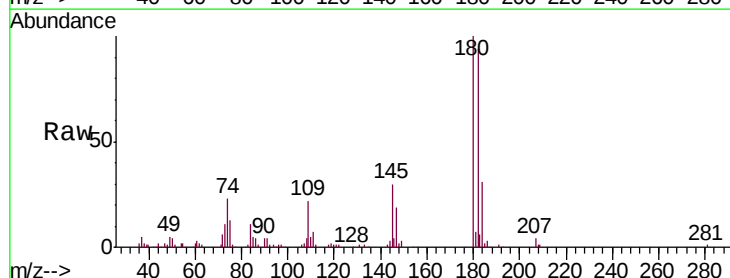
RT: 15.32 min Scan# 4270

Delta R.T. 0.00 min

Lab File: VN050047.D

Acq: 25 Jul 2018 15:56

Tgt Ion:	180	Resp:	133280
Ion Ratio	Lower	Upper	
180	100		
182	94.5	0.0	188.8
145	30.0	0.0	60.8



Abundance Ion 180.00 (179.70 to 180.70): V
Ion 182.00 (181.70 to 182.70): V
Ion 145.00 (144.70 to 145.70): V

